

# TEST REPORT

**Applicant:** MeiG Smart Technology Co., Ltd  
**Address:** 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen, China.  
**Equipment Type:** Smart Module  
**Model Name:** SLM500SA  
**Brand Name:** MEIGLink  
**FCC ID:** 2APJ4-SLM500SA  
**Test Standard:** 47 CFR Part 2  
(Others refer to chapter 3.1)  
**Sample Arrival Date:** May 17, 2023  
**Test Date:** May 17, 2023 - Jun. 05, 2023  
**Date of Issue:** Jun. 19, 2023

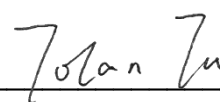
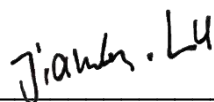
**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

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**Approved by:** Tolan Tu  
(Testing Director)



<b>Revision History</b>		
Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jun. 19, 2023</u>	<u>Initial Issue</u>

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# 1 GENERAL INFORMATION

## 1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

## 1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	MeiG Smart Technology Co., Ltd
Address	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen, China.

### 2.2 Manufacturer Information

Manufacturer	MeiG Smart Technology Co., Ltd
Address	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen, China.

### 2.3 Factory Information

Factory	N/A
Address	N/A

### 2.4 General Description for Equipment under Test (EUT)

EUT Name	Smart Module
Model Name Under Test	SLM500SA
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.01
Software Version	T04
Dimensions (Approx.)	40.5 mm(L) × 40.5 mm(W) × 2.85 mm(H)
Weight (Approx.)	13.0 g

## 2.5 Technical Information

All Network and Wireless connectivity for EUT	2G Network GSM/GPRS/EDGE 850/900/1800/1900 MHz 3G Network WCDMA/HSDPA/HSUPA/HSPA+ Band 2/4/5/8 4G Network FDD LTE Band 2/4/5/7/8/28 TDD LTE Band 34/38/39/41 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) GPS, GLONASS, BDS
About the Product	The equipment is LTE Smart Module, intended for used with information technology equipment.
<p>Note 1:</p> <p>The EUT is LTE Smart Module, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, WCDMA and LTE. And both SIM card slots share the same transceiver, so only SIM1 is tested in this report.</p>	

The requirement for the following technical information of the EUT was tested in this report:

Operating Bands	GSM/GPRS/EGPRS 850/ 1900 MHz WCDMA/HSDPA/HSUPA Band 2/ 4/ 5 FDD LTE Band 2/ 4/ 5/ 7 TDD LTE Band 38/ 41	
Modulation Type	GSM/GPRS	GMSK
	EGPRS	8PSK
	WCDMA	QPSK
	HSDPA /HSUPA	QPSK
		16QAM
	LTE	QPSK
16QAM		
Multislot Class	GPRS/EGPRS: 12	
Antenna Type	External Antenna	
Antenna Gain	GSM/GPRS/EGPRS 850: 1.87 dBi GSM/GPRS/EGPRS 1900: 2.72 dBi WCDMA/HSDPA/HSUPA Band 2: 2.72 dBi WCDMA/HSDPA/HSUPA Band 4: 3.16 dBi WCDMA/HSDPA/HSUPA Band 5: 1.87 dBi FDD LTE Band 2: 2.72 dBi FDD LTE Band 4: 3.16 dBi FDD LTE Band 5: 1.87 dBi FDD LTE Band 7: 2.12 dBi TDD LTE Band 38: 2.66 dBi TDD LTE Band 41: 3.34 dBi	
The Max RF Output Power (EIRP/ERP)	GSM/GPRS/EGPRS 850: 32.04 dBm GSM/GPRS/EGPRS 1900: 32.94 dBm	

			WCDMA/HSDPA/HSUPA Band 2: 26.82 dBm WCDMA/HSDPA/HSUPA Band 4: 25.63 dBm WCDMA/HSDPA/HSUPA Band 5: 22.11 dBm FDD LTE Band 2: 27.56 dBm FDD LTE Band 4: 26.90 dBm FDD LTE Band 5: 22.54 dBm FDD LTE Band 7: 25.82 dBm TDD LTE Band 38: 26.22 dBm TDD LTE Band 41: 26.87 dBm	
Band	Power Class		Tx Frequency Range	Rx Frequency Range
	GMSK	GMSK		
GSM850	4	E2	824 MHz ~ 849 MHz	869 MHz ~ 894 MHz
GSM1900	1	E2	1850 MHz ~ 1910 MHz	1930 MHz ~ 1990 MHz
WCDMA B2	3		1850 MHz ~ 1910 MHz	1930 MHz ~ 1990 MHz
WCDMA B4	3		1710 MHz ~ 1755 MHz	2110 MHz ~ 2155 MHz
WCDMA B5	3		824 MHz ~ 849 MHz	869 MHz ~ 894 MHz
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 B7	3		2500 MHz ~ 2570 MHz	2620 MHz ~ 2690 MHz
LTE B38	3		2570 MHz ~ 2620 MHz	2570 MHz ~ 2620 MHz
LTE B41	3		2535 MHz ~ 2655 MHz	2535 MHz ~ 2655 MHz

Note1: 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	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
6	KDB 971168 D01 v03	Measurement Guidance for Certification of Licensed Digital Transmitters



### 3.2 Test Verdict

No.	Test Description	FCC Part No.	Test Result	Test Verdict
1	Conducted RF Output Power	2.1046	Reporting only (ANNEX A.1)	Pass
2	Effective (Isotropic) Radiated Power	2.1046 22.913 24.232 27.50	ANNEX A.1	Pass
3	Peak to Average Ratio	2.1046 24.232(d) 27.50(d)	ANNEX A.2	Pass
4	Occupied Bandwidth	2.1049 22.917 24.238 27.53	ANNEX A.3	Pass
5	Frequency Stability	2.1055 22.355 24.235 27.54	ANNEX A.4	Pass
6	Spurious Emission at Antenna Terminals	2.1051 22.917 24.238 27.53	ANNEX A.5	Pass
7	Band Edge	2.1051 22.917 24.238 27.53	ANNEX A.6	Pass
8	Field Strength of Spurious Radiation	2.1053 22.917 24.238 27.53	ANNEX A.7	Pass

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

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

Relative Humidity		20% to 75%
Atmospheric Pressure		98 kPa to 102 kPa
Test Voltage of the EUT	NV (Normal Voltage)	3.8 V <sub>DC</sub>
	LV (Low Voltage)	3.55 V <sub>DC</sub>
	HV (High Voltage)	4.4 V <sub>DC</sub>
Test Temperature of the EUT	NT (Normal Temperature)	15 °C to 35 °C
	LT (Low Temperature)	-30 °C
	HT (High Temperature)	+75 °C

### 4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Version	Cal. Date	Cal. Due
<b>2/3/4/5G RF Test System</b>						
BL410 Test Software	BALUN	BL410R	N/A	2.1.1.496	N/A	N/A
Analog Signal Generator	R&S	SMB100A	182396	3.20.390.24	2022.09.06	2023.09.05
Temperature Chamber	AHK	SP20	1412	N/A	2022.09.20	2023.09.19
Wideband Radio Communication Tester	R&S	CMW 500	167190	V4.0.60	2023.05.11	2024.05.10
Spectrum Analyzer	keysight	N9020A	MY50531628	A.16.09	2023.05.12	2024.05.11
Spectrum Analyzer	R&S	FSV40	101544	2.30.SP4	2023.01.03	2024.01.02
DC Power Supply	ITECH	IT6863A	8000140207 57120005	N/A	2022.09.09	2023.09.08
<b>Radiated Test System</b>						
Radiated Test System Test Software	BALUN	BL410-E	N/A	V19.918	N/A	N/A
Wideband Radio Communication Tester	R&S	CMW 500	102318	V3.2.71	2023.05.16	2024.05.15
Test Antenna-Bi-Log(30 MHz-3 GHz)	Schwarzbeck	VULB 9163	9163-624	N/A	2021.08.20	2024.08.19
Test Antenna-Horn(1-18 GHz)	Schwarzbeck	BBHA 9120D	01917	N/A	2022.06.09	2025.06.08
Anechoic Chamber	YIHENG	9m*6m*6m	#3	N/A	2022.02.09	2024.09.03

### 4.3 Test Configurations

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
Effective (Isotropic) Radiated Power	GSM 850	v	v	v
	GSM 1900	v	v	v
	GPRS 850	v	v	v
	GPRS 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 4	v	v	v
	WCDMA Band 5	v	v	v
	HSDPA Band 2	v	v	v
	HSDPA Band 4	v	v	v
	HSDPA Band 5	v	v	v
	HSUPA Band 2	v	v	v
	HSUPA Band 4	v	v	v
	HSUPA Band 5	v	v	v
Peak to Average Ratio	WCDMA Band 2	v	v	v
	WCDMA Band 4	v	v	v
	WCDMA Band 5	v	v	v
Occupied Bandwidth	GSM 850	v	v	v
	GSM 1900	v	v	v
	GPRS 850	v	v	v
	GPRS 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 5	v	v	v
Frequency Stability	GSM 850	v	v	v
	GSM 1900	v	v	v
	GPRS 850	v	v	v
	GPRS 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 4	v	v	v
	WCDMA Band 5	v	v	v
Spurious Emission at Antenna Terminals	GSM 850	v	v	v
	GSM 1900	v	v	v
	GPRS 850	v	v	v

Test Items	Test Mode	Test Channel		
		LCH	MCH	HCH
	GPRS 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 4	v	v	v
	WCDMA Band 5	v	v	v
Band Edge	GSM 850	v	--	v
	GSM 1900	v	--	v
	GPRS 850	v	--	v
	GPRS 1900	v	--	v
	EGPRS 850	v	--	v
	EGPRS 1900	v	--	v
	WCDMA Band 2	v	--	v
	WCDMA Band 4	v	--	v
	WCDMA Band 5	v	--	v
Field Strength of Spurious Radiation	GSM 850	v	v	v
	GSM 1900	v	v	v
	EGPRS 850	v	v	v
	EGPRS 1900	v	v	v
	WCDMA Band 2	v	v	v
	WCDMA Band 4	v	v	v
	WCDMA Band 5	v	v	v

Note 1: The mark "v" means that this configuration is chosen for testing.

Test Mode	UL Channel	UL Channel No.	UL Frequency (MHz)
GSM/GPRS/EGPRS 850	Low Channel	128	824.2
	Middle Channel	190	836.6
	High Channel	251	848.8
GSM/GPRS/EGPRS 1900	Low Channel	512	1850.2
	Middle Channel	661	1880.0
	High Channel	810	1909.8
WCDMA Band 2	Low Channel	9262	1852.4
	Middle Channel	9400	1880.0
	High Channel	9538	1907.6
WCDMA Band 4	Low Channel	1312	1712.4
	Middle Channel	1412	1732.4
	High Channel	1513	1752.6
WCDMA Band 5	Low Channel	4132	826.4
	Middle Channel	4182	836.4

Test Mode	UL Channel	UL Channel No.	UL Frequency (MHz)
	High Channel	4233	846.6

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
<b>Effective (Isotropic) Radiated Power</b>														
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
7	n	n	v	v	v	v	v	v	v	v	v	v	v	v
38	n	n	v	v	v	v	v	v	v	v	v	v	v	v
41	n	n	v	v	v	v	v	v	v	v	v	v	v	v
<b>Peak to Average Ratio</b>														
2	--	--	--	--	--	v	v	v	v	--	v	v	v	v
4	--	--	--	--	--	v	v	v	v	--	v	v	v	v
5	--	--	--	v	n	n	v	v	v	--	v	v	v	v
7	n	n	--	--	--	v	v	v	v	--	v	v	v	v
38	n	n	--	--	--	v	v	v	v	--	v	v	v	v
41	n	n	--	--	--	v	v	v	v	--	v	v	v	v
<b>Occupied Bandwidth</b>														
2	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
5	v	v	v	v	n	n	v	v	--	--	v	v	v	v
7	n	n	v	v	v	v	v	v	--	--	v	v	v	v
38	n	n	v	v	v	v	v	v	--	--	v	v	v	v
41	n	n	v	v	v	v	v	v	--	--	v	v	v	v
<b>Frequency Stability</b>														
2	--	--	--	v	--	--	v	v	--	--	v	--	v	--
4	--	--	--	v	--	--	v	v	--	--	v	--	v	--
5	--	--	--	v	n	n	v	v	--	--	v	--	v	--
7	n	n	--	v	--	--	v	v	--	--	v	--	v	--
38	n	n	--	v	--	--	v	v	--	--	v	--	v	--
41	n	n	--	v	--	--	v	v	--	--	v	--	v	--
<b>Spurious Emission at Antenna Terminals</b>														
2	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
5	v	v	v	v	n	n	v	v	v	--	--	v	v	v
7	n	n	v	v	v	v	v	v	v	--	--	v	v	v
38	n	n	v	v	v	v	v	v	v	--	--	v	v	v
41	n	n	v	v	v	v	v	v	v	--	--	v	v	v

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
<b>Band Edge</b>														
2	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
5	v	v	v	v	n	n	v	v	v	--	v	v	--	v
7	n	n	v	v	v	v	v	v	v	--	v	v	--	v
38	n	n	v	v	v	v	v	v	v	--	v	v	--	v
41	n	n	v	v	v	v	v	v	v	--	v	v	--	v
<b>Field Strength of Spurious Radiation</b>														
2	v	v	v	v	v	v	v	--	v	--	--	--	v	--
4	v	v	v	v	v	v	v	--	v	--	--	--	v	--
5	v	v	v	v	n	n	v	--	v	--	--	--	v	--
7	n	n	v	v	v	v	v	--	v	--	--	--	v	--
38	n	n	v	v	v	v	v	--	v	--	--	--	v	--
41	n	n	v	v	v	v	v	--	v	--	--	--	v	--

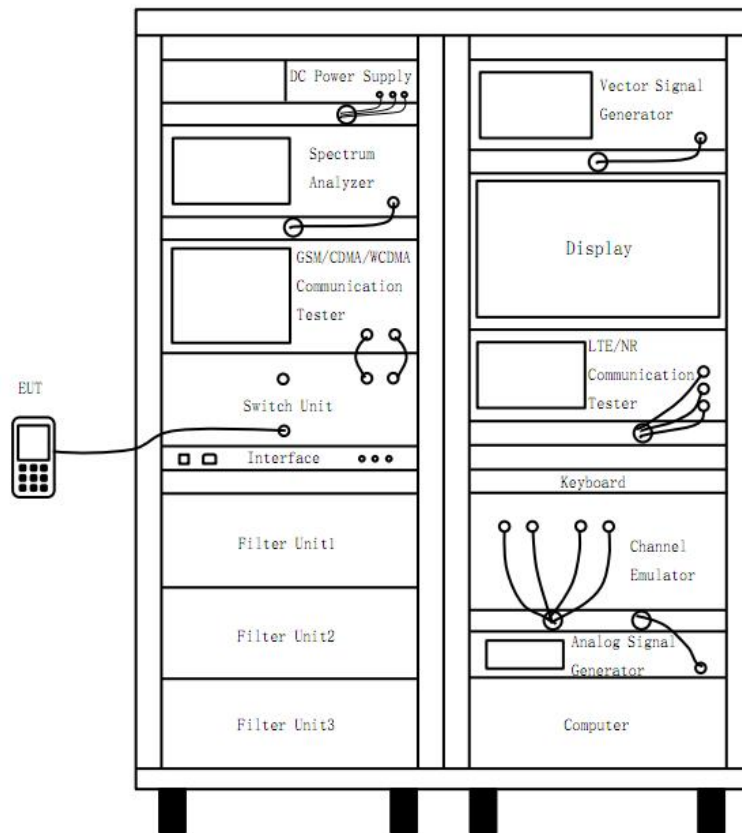
Note 1: The mark “v” means that this configuration is chosen for testing.  
 Note 2: The mark “n” means that this bandwidth is not supported.

Test 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

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
		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 7	Low Range	5	20775	2502.5
		10	20800	2505
		15	20825	2507.5
		20	20850	2510
	Middle Range	5/10/15/20	21100	2535
	High Range	5	21425	2567.5
		10	21400	2565
		15	21375	2562.5
20		21350	2560	
LTE Band 38	Low Range	5	37775	2572.5
		10	37800	2575
		15	37825	2577.5
		20	37850	2580
	Middle Range	5/10/15/20	38000	2595
	High Range	5	38225	2617.5
		10	38200	2615
		15	38175	2612.5
20		38150	2610	
LTE Band 41	Low Range	5	40065	2537.5
		10	40090	2540
		15	40115	2542.5
		20	40140	2545
	Middle Range	5/10/15/20	40640	2595
	High Range	5	41215	2652.5
		10	41190	2650
		15	41165	2647.5
20		41140	2645	

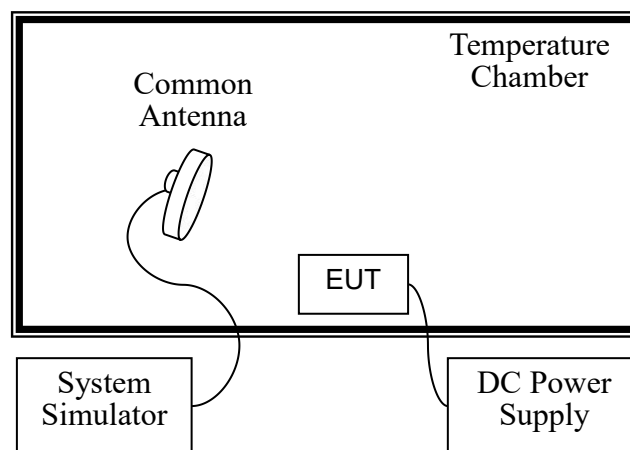
## 4.4 Test Setup

### 4.4.1 For Antenna Port Test



(Diagram 1)

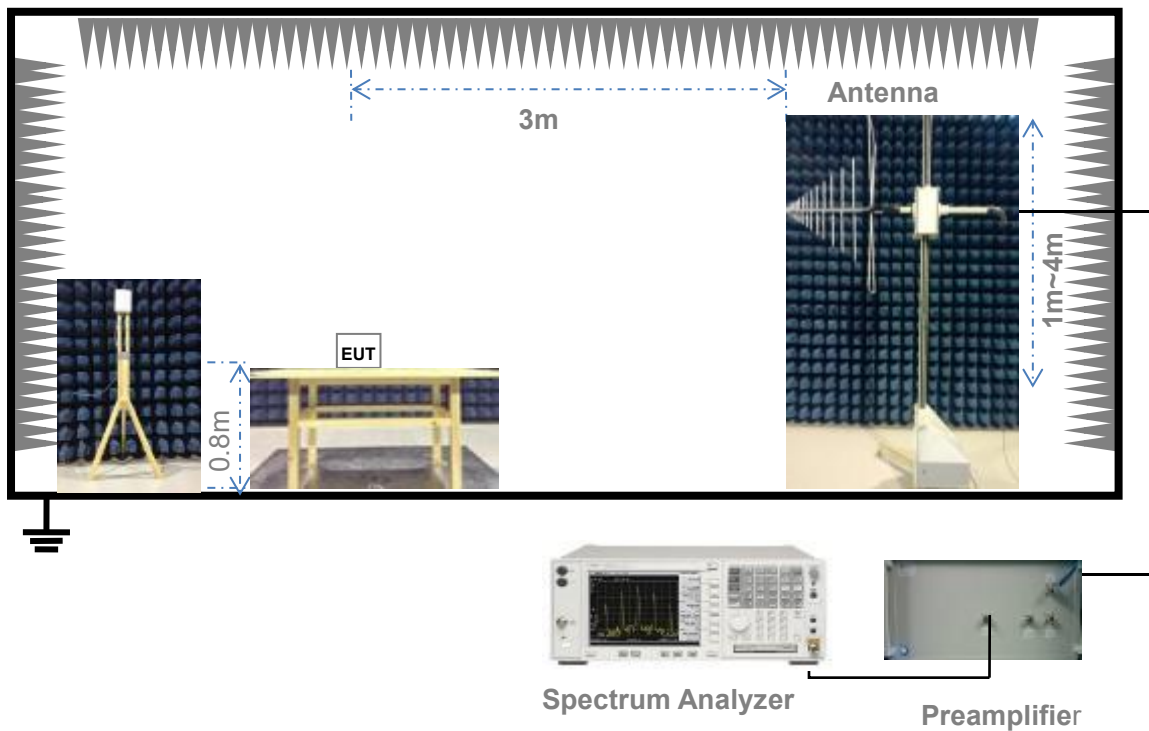
### 4.4.2 For Frequency Stability Test



(Diagram 2)

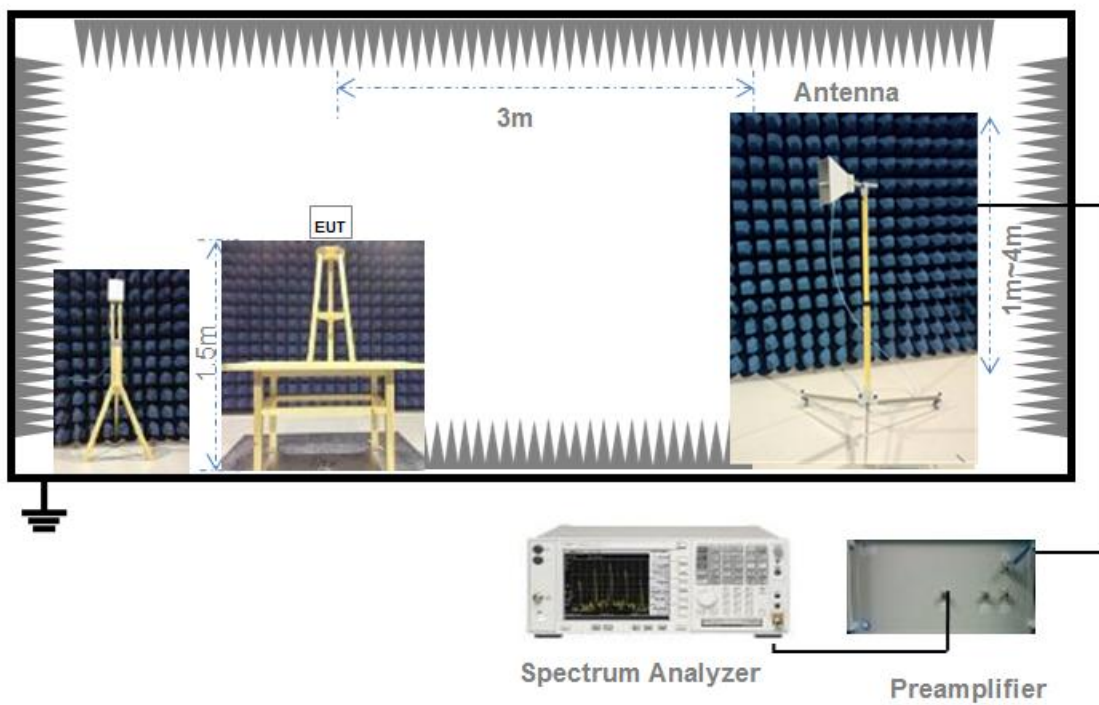


### 4.4.3 For Radiated Test (30 MHz ~ 1 GHz)



(Diagram 3)

### 4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)

## 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(d) & 27.50(h)

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.

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.

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.

#### 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:

Conducted Output Power Value (dBm) = Measured Value (dBm) + 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  $P_{\text{Meas}}$ , typically dBW or dBm);

$P_{\text{Meas}}$  = 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  $P_{\text{Meas}}$  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), in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

### 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:

$$PAPR (dB) = P_{PK} (dBm) - P_{AVG} (dBm).$$

#### 5.2.4 Test Result

Please refer to ANNEX A.2.

## 5.3 Occupied Bandwidth

### 5.3.1 Limit

#### FCC § 2.1049

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  $10\log(\text{OBW} / \text{RBW})$  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

FCC § 2.1055

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.

### 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(h) & 27.53(m)

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)

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(h) (1)

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(m) (4)

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.

### 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. Base Station 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(h) & 27.53(m)

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)

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(h) (1)

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(m) (4)

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 that  $43 + 10 \log(P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log(P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

### 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. Base Station 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 § 2.1053 & 22.917(a) & 24.238(a) & 27.53(h) & 27.53(m)

FCC § 22.917(a) & 24.238(a)

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(h) (1)

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(m) (4)

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.

### 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.

## ANNEX A TEST RESULTS

### A.1 Transmitter Radiated Power (EIRP/ERP)

#### GSM Mode Test Data

Test Band	Test Channel	Conducted Output Peak Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
GSM 850	LCH	32.31	1.87	-0.28	32.03	1.596	7.00	Pass
	MCH	32.30	1.87	-0.28	32.02	1.592	7.00	Pass
	HCH	32.31	1.87	-0.28	32.03	1.596	7.00	Pass
GPRS 850	LCH	32.32	1.87	-0.28	32.04	1.600	7.00	Pass
	MCH	32.31	1.87	-0.28	32.03	1.596	7.00	Pass
	HCH	32.30	1.87	-0.28	32.02	1.592	7.00	Pass
EGPRS 850	LCH	26.04	1.87	-0.28	25.76	0.377	7.00	Pass
	MCH	25.99	1.87	-0.28	25.71	0.372	7.00	Pass
	HCH	25.86	1.87	-0.28	25.58	0.361	7.00	Pass

Test Band	Test Channel	Conducted Output Peak Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
GSM 1900	LCH	30.12	2.72	32.84	1.923	2.00	Pass
	MCH	30.09	2.72	32.81	1.910	2.00	Pass
	HCH	29.78	2.72	32.50	1.778	2.00	Pass
GPRS 1900	LCH	30.22	2.72	32.94	1.968	2.00	Pass
	MCH	30.03	2.72	32.75	1.884	2.00	Pass
	HCH	29.78	2.72	32.50	1.778	2.00	Pass
EGPRS 1900	LCH	27.72	2.72	30.44	1.107	2.00	Pass
	MCH	26.57	2.72	29.29	0.849	2.00	Pass
	HCH	26.05	2.72	28.77	0.753	2.00	Pass

Note 1: For the GPRS and EGPRS mode, all slots were tested and just the worst data were recorded in this table.

Note 2:  $ERP/EIRP = P_{Meas} + GT - LC$

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);

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

$ERP = EIRP - 2.15$ ; where ERP and EIRP are expressed in consistent units.

Note 3: Set PCL to 5 for GSM/GPRS 850 (power class 4) and 0 for GSM/GPRS 1900 (power class 1).

Set PCL to 8 for EGPRS850 (power class E2) and 2 for EGPRS1900 (power class E2).

GPRS Conducted Output Power

Band	Channel	Conducted Output Peak Power							
		1 Slot (dBm)	1 Slot (W)	2 Slots (dBm)	2 Slots (W)	3 Slots (dBm)	3 Slots (W)	4 Slots (dBm)	4 Slots (W)
GPRS 850	LCH	26.56	0.453	26.57	0.454	26.57	0.454	26.57	0.454
	MCH	26.52	0.449	26.52	0.449	26.52	0.449	26.52	0.449
	HCH	26.61	0.458	26.61	0.458	26.60	0.457	26.60	0.457
GPRS 1900	LCH	25.67	0.369	25.67	0.369	25.67	0.369	25.67	0.369
	MCH	26.52	0.449	26.52	0.449	26.52	0.449	26.52	0.449
	HCH	26.61	0.458	26.61	0.458	26.60	0.457	26.60	0.457

EGPRS Conducted Output Power

Band	Channel	Conducted Output Peak Power							
		1 Slot (dBm)	1 Slot (W)	2 Slots (dBm)	2 Slots (W)	3 Slots (dBm)	3 Slots (W)	4 Slots (dBm)	4 Slots (W)
EGPRS 850	LCH	20.34	0.108	20.34	0.108	20.07	0.102	20.19	0.104
	MCH	20.37	0.109	20.51	0.112	20.26	0.106	20.41	0.110
	HCH	20.29	0.107	20.21	0.105	20.18	0.104	20.31	0.107
EGPRS 1900	LCH	21.92	0.156	22.10	0.162	21.95	0.157	21.85	0.153
	MCH	21.31	0.135	21.09	0.129	21.27	0.134	21.20	0.132
	HCH	20.50	0.112	20.61	0.115	20.71	0.118	20.60	0.115

## WCDMA Mode Test Data

Test Band	Test Channel	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
WCDMA Band 2	LCH	24.10	2.72	26.82	0.481	2.00	Pass
	MCH	23.63	2.72	26.35	0.432	2.00	Pass
	HCH	23.00	2.72	25.72	0.373	2.00	Pass
HSDPA Band 2	LCH	22.81	2.72	25.53	0.357	2.00	Pass
	MCH	22.26	2.72	24.98	0.315	2.00	Pass
	HCH	21.79	2.72	24.51	0.282	2.00	Pass
HSUPA Band 2	LCH	22.93	2.72	25.65	0.367	2.00	Pass
	MCH	22.42	2.72	25.14	0.327	2.00	Pass
	HCH	21.95	2.72	24.67	0.293	2.00	Pass

Test Band	Test Channel	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
WCDMA Band 4	LCH	20.96	3.16	24.12	0.258	1.00	Pass
	MCH	21.91	3.16	25.07	0.321	1.00	Pass
	HCH	22.47	3.16	25.63	0.366	1.00	Pass
HSDPA Band 4	LCH	21.37	3.16	24.53	0.284	1.00	Pass
	MCH	21.51	3.16	24.67	0.293	1.00	Pass
	HCH	21.77	3.16	24.93	0.311	1.00	Pass
HSUPA Band 4	LCH	21.46	3.16	24.62	0.290	1.00	Pass
	MCH	21.64	3.16	24.80	0.302	1.00	Pass
	HCH	21.97	3.16	25.13	0.326	1.00	Pass

Test Band	Test Channel	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
WCDMA Band 5	LCH	22.34	1.87	-0.28	22.06	0.161	7.00	Pass
	MCH	22.37	1.87	-0.28	22.09	0.162	7.00	Pass
	HCH	22.39	1.87	-0.28	22.11	0.163	7.00	Pass
HSDPA Band 5	LCH	21.49	1.87	-0.28	21.21	0.132	7.00	Pass
	MCH	21.27	1.87	-0.28	20.99	0.126	7.00	Pass
	HCH	21.12	1.87	-0.28	20.84	0.121	7.00	Pass
HSUPA Band 5	LCH	21.29	1.87	-0.28	21.01	0.126	7.00	Pass
	MCH	21.05	1.87	-0.28	20.77	0.119	7.00	Pass
	HCH	20.99	1.87	-0.28	20.71	0.118	7.00	Pass

Note 1: For the HSDPA and HSUPA mode, all subtests were tested and just the worst data were recorded in this table.

Note 2:  $ERP/EIRP = P_{Meas} + GT - LC$

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);

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

ERP = EIRP – 2.15; where ERP and EIRP are expressed in consistent units.

#### HSDPA Conducted Output Power

Band	Channel	Conducted Output Average Power							
		Subtest1		Subtest2		Subtest3		Subtest4	
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
HSDPA Band 2	LCH	22.81	0.191	22.47	0.177	22.65	0.184	22.27	0.169
	MCH	22.26	0.168	21.96	0.157	22.06	0.161	21.83	0.152
	HCH	21.79	0.151	21.43	0.139	21.66	0.147	21.24	0.133
HSDPA Band 4	LCH	21.37	0.137	21.26	0.134	20.49	0.112	20.32	0.108
	MCH	21.51	0.142	21.26	0.134	20.48	0.112	20.39	0.109
	HCH	21.77	0.150	21.53	0.142	20.57	0.114	20.52	0.113
HSDPA Band 5	LCH	21.49	0.141	21.13	0.130	20.85	0.122	20.67	0.117
	MCH	21.27	0.134	20.96	0.125	20.64	0.116	20.47	0.111
	HCH	21.12	0.129	20.80	0.120	20.50	0.112	20.45	0.111

#### HSUPA Conducted Output Power

Band	Channel	Conducted Output Average Power									
		Subtest1		Subtest2		Subtest3		Subtest4		Subtest5	
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
HSUPA Band 2	LCH	20.50	0.112	20.36	0.109	20.85	0.122	20.96	0.125	22.93	0.196
	MCH	20.00	0.100	19.87	0.097	20.21	0.105	20.27	0.106	22.42	0.175
	HCH	19.55	0.090	19.40	0.087	19.80	0.095	19.87	0.097	21.95	0.157
HSUPA Band 4	LCH	19.04	0.080	18.59	0.072	19.07	0.081	19.18	0.083	21.46	0.140
	MCH	19.23	0.084	18.81	0.076	19.28	0.085	19.38	0.087	21.64	0.146
	HCH	19.62	0.092	19.19	0.083	19.66	0.092	19.74	0.094	21.97	0.157
HSUPA Band 5	LCH	19.82	0.096	19.48	0.089	19.81	0.096	19.52	0.090	21.29	0.135
	MCH	19.72	0.094	19.36	0.086	19.70	0.093	19.36	0.086	21.05	0.127
	HCH	19.76	0.095	19.37	0.086	19.72	0.094	19.32	0.086	20.99	0.126

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
<b>LTE BAND2</b>									
1.4 MHz	LCH	QPSK	RB1#0	24.76	2.72	27.48	0.560	2.00	Pass
			RB1#3	24.72	2.72	27.44	0.555	2.00	Pass
			RB1#5	24.71	2.72	27.43	0.553	2.00	Pass
			RB3#0	24.80	2.72	27.52	0.565	2.00	Pass
			RB3#2	24.79	2.72	27.51	0.564	2.00	Pass
			RB3#3	24.73	2.72	27.45	0.556	2.00	Pass
		RB6#0	23.67	2.72	26.39	0.436	2.00	Pass	
		16-QAM	RB1#0	24.70	2.72	27.42	0.552	2.00	Pass
			RB1#3	24.58	2.72	27.30	0.537	2.00	Pass
			RB1#5	24.68	2.72	27.40	0.550	2.00	Pass
			RB3#0	23.79	2.72	26.51	0.448	2.00	Pass
			RB3#2	23.86	2.72	26.58	0.455	2.00	Pass
	RB3#3		23.85	2.72	26.57	0.454	2.00	Pass	
	RB6#0	22.87	2.72	25.59	0.362	2.00	Pass		
	MCH	QPSK	RB1#0	24.17	2.72	26.89	0.489	2.00	Pass
			RB1#3	24.15	2.72	26.87	0.486	2.00	Pass
			RB1#5	24.12	2.72	26.84	0.483	2.00	Pass
			RB3#0	24.26	2.72	26.98	0.499	2.00	Pass
			RB3#2	24.33	2.72	27.05	0.507	2.00	Pass
			RB3#3	24.25	2.72	26.97	0.498	2.00	Pass
		RB6#0	23.37	2.72	26.09	0.406	2.00	Pass	
		16-QAM	RB1#0	23.47	2.72	26.19	0.416	2.00	Pass
			RB1#3	23.57	2.72	26.29	0.426	2.00	Pass
			RB1#5	23.49	2.72	26.21	0.418	2.00	Pass
			RB3#0	23.21	2.72	25.93	0.392	2.00	Pass
			RB3#2	23.27	2.72	25.99	0.397	2.00	Pass
	RB3#3		23.23	2.72	25.95	0.394	2.00	Pass	
	RB6#0	21.99	2.72	24.71	0.296	2.00	Pass		
	HCH	QPSK	RB1#0	23.60	2.72	26.32	0.429	2.00	Pass
			RB1#3	23.57	2.72	26.29	0.426	2.00	Pass
			RB1#5	23.55	2.72	26.27	0.424	2.00	Pass
			RB3#0	23.60	2.72	26.32	0.429	2.00	Pass
			RB3#2	23.62	2.72	26.34	0.431	2.00	Pass
			RB3#3	23.56	2.72	26.28	0.425	2.00	Pass
		RB6#0	22.61	2.72	25.33	0.341	2.00	Pass	
		16-QAM	RB1#0	23.48	2.72	26.20	0.417	2.00	Pass
RB1#3	23.45	2.72	26.17	0.414	2.00	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	
<b>LTE BAND2</b>										
3 MHz			RB1#5	23.53	2.72	26.25	0.422	2.00	Pass	
			RB3#0	22.76	2.72	25.48	0.353	2.00	Pass	
			RB3#2	22.72	2.72	25.44	0.350	2.00	Pass	
			RB3#3	22.75	2.72	25.47	0.352	2.00	Pass	
			RB6#0	21.67	2.72	24.39	0.275	2.00	Pass	
	LCH	QPSK	RB1#0	24.56	2.72	27.28	0.535	2.00	Pass	
			RB1#7	24.65	2.72	27.37	0.546	2.00	Pass	
			RB1#14	24.46	2.72	27.18	0.522	2.00	Pass	
			RB8#0	23.73	2.72	26.45	0.442	2.00	Pass	
			RB8#4	23.61	2.72	26.33	0.430	2.00	Pass	
			RB8#7	23.73	2.72	26.45	0.442	2.00	Pass	
			RB15#0	23.76	2.72	26.48	0.445	2.00	Pass	
		16-QAM	RB1#0	24.26	2.72	26.98	0.499	2.00	Pass	
			RB1#7	24.35	2.72	27.07	0.509	2.00	Pass	
			RB1#14	24.37	2.72	27.09	0.512	2.00	Pass	
			RB8#0	22.66	2.72	25.38	0.345	2.00	Pass	
			RB8#4	22.77	2.72	25.49	0.354	2.00	Pass	
			RB8#7	22.79	2.72	25.51	0.356	2.00	Pass	
		MCH	QPSK	RB1#0	24.12	2.72	26.84	0.483	2.00	Pass
				RB1#7	24.15	2.72	26.87	0.486	2.00	Pass
	RB1#14			24.11	2.72	26.83	0.482	2.00	Pass	
	RB8#0			23.33	2.72	26.05	0.403	2.00	Pass	
	RB8#4			23.39	2.72	26.11	0.408	2.00	Pass	
	RB8#7			23.34	2.72	26.06	0.404	2.00	Pass	
	RB15#0			23.33	2.72	26.05	0.403	2.00	Pass	
	16-QAM		RB1#0	23.55	2.72	26.27	0.424	2.00	Pass	
			RB1#7	23.51	2.72	26.23	0.420	2.00	Pass	
			RB1#14	23.45	2.72	26.17	0.414	2.00	Pass	
			RB8#0	22.39	2.72	25.11	0.324	2.00	Pass	
			RB8#4	22.42	2.72	25.14	0.327	2.00	Pass	
RB8#7			22.41	2.72	25.13	0.326	2.00	Pass		
HCH	QPSK		RB1#0	22.33	2.72	25.05	0.320	2.00	Pass	
			RB1#0	23.47	2.72	26.19	0.416	2.00	Pass	
		RB1#7	23.60	2.72	26.32	0.429	2.00	Pass		
		RB1#14	23.63	2.72	26.35	0.432	2.00	Pass		
		RB8#0	22.66	2.72	25.38	0.345	2.00	Pass		
			RB8#4	22.67	2.72	25.39	0.346	2.00	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		
<b>LTE BAND2</b>											
		16-QAM	RB8#7	22.68	2.72	25.40	0.347	2.00	Pass		
			RB15#0	22.71	2.72	25.43	0.349	2.00	Pass		
			RB1#0	22.98	2.72	25.70	0.372	2.00	Pass		
			RB1#7	22.99	2.72	25.71	0.372	2.00	Pass		
			RB1#14	22.93	2.72	25.65	0.367	2.00	Pass		
			RB8#0	21.76	2.72	24.48	0.281	2.00	Pass		
			RB8#4	21.85	2.72	24.57	0.286	2.00	Pass		
			RB8#7	21.69	2.72	24.41	0.276	2.00	Pass		
					RB15#0	21.67	2.72	24.39	0.275	2.00	Pass
		5 MHz	LCH	QPSK	RB1#0	24.58	2.72	27.30	0.537	2.00	Pass
					RB1#13	24.39	2.72	27.11	0.514	2.00	Pass
					RB1#24	24.70	2.72	27.42	0.552	2.00	Pass
					RB12#0	23.59	2.72	26.31	0.428	2.00	Pass
					RB12#6	23.75	2.72	26.47	0.444	2.00	Pass
					RB12#13	23.69	2.72	26.41	0.438	2.00	Pass
							RB25#0	23.65	2.72	26.37	0.434
				16-QAM	RB1#0	23.46	2.72	26.18	0.415	2.00	Pass
					RB1#13	23.42	2.72	26.14	0.411	2.00	Pass
					RB1#24	23.48	2.72	26.20	0.417	2.00	Pass
					RB12#0	22.65	2.72	25.37	0.344	2.00	Pass
					RB12#6	22.71	2.72	25.43	0.349	2.00	Pass
			RB12#13		22.75	2.72	25.47	0.352	2.00	Pass	
				RB25#0	22.88	2.72	25.60	0.363	2.00	Pass	
	MCH		QPSK	RB1#0	24.30	2.72	27.02	0.504	2.00	Pass	
					RB1#13	24.22	2.72	26.94	0.494	2.00	Pass
					RB1#24	24.29	2.72	27.01	0.502	2.00	Pass
					RB12#0	23.38	2.72	26.10	0.407	2.00	Pass
					RB12#6	23.19	2.72	25.91	0.390	2.00	Pass
					RB12#13	23.20	2.72	25.92	0.391	2.00	Pass
					RB25#0	23.21	2.72	25.93	0.392	2.00	Pass
				16-QAM	RB1#0	23.09	2.72	25.81	0.381	2.00	Pass
					RB1#13	23.07	2.72	25.79	0.379	2.00	Pass
					RB1#24	23.17	2.72	25.89	0.388	2.00	Pass
			RB12#0		22.35	2.72	25.07	0.321	2.00	Pass	
			RB12#6		22.34	2.72	25.06	0.321	2.00	Pass	
		RB12#13	22.32		2.72	25.04	0.319	2.00	Pass		
			RB25#0	22.45	2.72	25.17	0.329	2.00	Pass		
	HCH	QPSK	RB1#0	23.57	2.72	26.29	0.426	2.00	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
<b>LTE BAND2</b>									
			RB1#13	23.60	2.72	26.32	0.429	2.00	Pass
			RB1#24	23.66	2.72	26.38	0.435	2.00	Pass
			RB12#0	22.60	2.72	25.32	0.340	2.00	Pass
			RB12#6	22.63	2.72	25.35	0.343	2.00	Pass
			RB12#13	22.68	2.72	25.40	0.347	2.00	Pass
			RB25#0	22.68	2.72	25.40	0.347	2.00	Pass
		16-QAM	RB1#0	22.52	2.72	25.24	0.334	2.00	Pass
			RB1#13	22.49	2.72	25.21	0.332	2.00	Pass
			RB1#24	22.51	2.72	25.23	0.333	2.00	Pass
			RB12#0	21.77	2.72	24.49	0.281	2.00	Pass
			RB12#6	21.67	2.72	24.39	0.275	2.00	Pass
			RB12#13	21.74	2.72	24.46	0.279	2.00	Pass
			RB25#0	21.61	2.72	24.33	0.271	2.00	Pass
			10 MHz	LCH	QPSK	RB1#0	24.71	2.72	27.43
RB1#25	24.64	2.72				27.36	0.545	2.00	Pass
RB1#49	24.84	2.72				27.56	0.570	2.00	Pass
RB25#0	23.58	2.72				26.30	0.427	2.00	Pass
RB25#13	23.74	2.72				26.46	0.443	2.00	Pass
RB25#25	23.69	2.72				26.41	0.438	2.00	Pass
16-QAM	RB50#0	23.74			2.72	26.46	0.443	2.00	Pass
	RB1#0	24.36			2.72	27.08	0.511	2.00	Pass
	RB1#25	24.49			2.72	27.21	0.526	2.00	Pass
	RB1#49	24.43			2.72	27.15	0.519	2.00	Pass
	RB25#0	22.63			2.72	25.35	0.343	2.00	Pass
	RB25#13	22.68			2.72	25.40	0.347	2.00	Pass
	RB25#25	22.61			2.72	25.33	0.341	2.00	Pass
	RB50#0	22.66			2.72	25.38	0.345	2.00	Pass
10 MHz	MCH	QPSK	RB1#0	24.41	2.72	27.13	0.516	2.00	Pass
			RB1#25	24.37	2.72	27.09	0.512	2.00	Pass
			RB1#49	24.41	2.72	27.13	0.516	2.00	Pass
			RB25#0	23.30	2.72	26.02	0.400	2.00	Pass
			RB25#13	23.21	2.72	25.93	0.392	2.00	Pass
			RB25#25	23.36	2.72	26.08	0.406	2.00	Pass
		16-QAM	RB50#0	23.23	2.72	25.95	0.394	2.00	Pass
			RB1#0	23.44	2.72	26.16	0.413	2.00	Pass
			RB1#25	23.52	2.72	26.24	0.421	2.00	Pass
			RB1#49	23.43	2.72	26.15	0.412	2.00	Pass
			RB25#0	22.35	2.72	25.07	0.321	2.00	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	
<b>LTE BAND2</b>										
15 MHz	HCH	QPSK	RB25#13	22.43	2.72	25.15	0.327	2.00	Pass	
			RB25#25	22.39	2.72	25.11	0.324	2.00	Pass	
			RB50#0	22.35	2.72	25.07	0.321	2.00	Pass	
		16-QAM	QPSK	RB1#0	23.67	2.72	26.39	0.436	2.00	Pass
				RB1#25	23.64	2.72	26.36	0.433	2.00	Pass
				RB1#49	23.72	2.72	26.44	0.441	2.00	Pass
			16-QAM	RB25#0	22.74	2.72	25.46	0.352	2.00	Pass
				RB25#13	22.60	2.72	25.32	0.340	2.00	Pass
				RB25#25	22.69	2.72	25.41	0.348	2.00	Pass
	RB50#0			22.68	2.72	25.40	0.347	2.00	Pass	
	RB1#0			22.86	2.72	25.58	0.361	2.00	Pass	
	RB1#25			22.82	2.72	25.54	0.358	2.00	Pass	
	LCH	QPSK	RB1#49	22.80	2.72	25.52	0.356	2.00	Pass	
			RB25#0	21.84	2.72	24.56	0.286	2.00	Pass	
			RB25#13	21.86	2.72	24.58	0.287	2.00	Pass	
			RB25#25	21.85	2.72	24.57	0.286	2.00	Pass	
			RB50#0	21.80	2.72	24.52	0.283	2.00	Pass	
			RB1#0	24.53	2.72	27.25	0.531	2.00	Pass	
		16-QAM	RB1#38	24.63	2.72	27.35	0.543	2.00	Pass	
			RB1#74	24.69	2.72	27.41	0.551	2.00	Pass	
			RB36#0	23.68	2.72	26.40	0.437	2.00	Pass	
RB36#19			23.63	2.72	26.35	0.432	2.00	Pass		
RB36#39			23.67	2.72	26.39	0.436	2.00	Pass		
RB75#0			23.59	2.72	26.31	0.428	2.00	Pass		
MCH	QPSK	RB1#0	24.22	2.72	26.94	0.494	2.00	Pass		
		RB1#38	24.35	2.72	27.07	0.509	2.00	Pass		
		RB1#74	24.30	2.72	27.02	0.504	2.00	Pass		
		RB36#0	22.61	2.72	25.33	0.341	2.00	Pass		
		RB36#19	22.64	2.72	25.36	0.344	2.00	Pass		
		RB36#39	22.62	2.72	25.34	0.342	2.00	Pass		
		RB75#0	22.73	2.72	25.45	0.351	2.00	Pass		
QPSK	RB1#0	24.34	2.72	27.06	0.508	2.00	Pass			
	RB1#38	24.30	2.72	27.02	0.504	2.00	Pass			
	RB1#74	24.33	2.72	27.05	0.507	2.00	Pass			
	RB36#0	23.28	2.72	26.00	0.398	2.00	Pass			
	RB36#19	23.26	2.72	25.98	0.396	2.00	Pass			
	RB36#39	23.33	2.72	26.05	0.403	2.00	Pass			
	RB75#0	23.33	2.72	26.05	0.403	2.00	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
<b>LTE BAND2</b>									
20 MHz	HCH	16-QAM	RB1#0	23.55	2.72	26.27	0.424	2.00	Pass
			RB1#38	23.60	2.72	26.32	0.429	2.00	Pass
			RB1#74	23.57	2.72	26.29	0.426	2.00	Pass
			RB36#0	22.39	2.72	25.11	0.324	2.00	Pass
			RB36#19	22.49	2.72	25.21	0.332	2.00	Pass
			RB36#39	22.40	2.72	25.12	0.325	2.00	Pass
			RB75#0	22.36	2.72	25.08	0.322	2.00	Pass
		QPSK	RB1#0	23.67	2.72	26.39	0.436	2.00	Pass
			RB1#38	23.60	2.72	26.32	0.429	2.00	Pass
			RB1#74	23.62	2.72	26.34	0.431	2.00	Pass
			RB36#0	22.66	2.72	25.38	0.345	2.00	Pass
			RB36#19	22.74	2.72	25.46	0.352	2.00	Pass
			RB36#39	22.69	2.72	25.41	0.348	2.00	Pass
			RB75#0	22.72	2.72	25.44	0.350	2.00	Pass
	16-QAM	RB1#0	23.60	2.72	26.32	0.429	2.00	Pass	
		RB1#38	23.72	2.72	26.44	0.441	2.00	Pass	
		RB1#74	23.58	2.72	26.30	0.427	2.00	Pass	
		RB36#0	21.77	2.72	24.49	0.281	2.00	Pass	
		RB36#19	21.85	2.72	24.57	0.286	2.00	Pass	
		RB36#39	21.79	2.72	24.51	0.282	2.00	Pass	
		RB75#0	21.84	2.72	24.56	0.286	2.00	Pass	
	LCH	QPSK	RB1#0	24.53	2.72	27.25	0.531	2.00	Pass
			RB1#50	24.65	2.72	27.37	0.546	2.00	Pass
			RB1#99	24.62	2.72	27.34	0.542	2.00	Pass
			RB50#0	23.48	2.72	26.20	0.417	2.00	Pass
			RB50#25	23.60	2.72	26.32	0.429	2.00	Pass
			RB50#50	23.65	2.72	26.37	0.434	2.00	Pass
			RB100#0	23.53	2.72	26.25	0.422	2.00	Pass
16-QAM		RB1#0	23.35	2.72	26.07	0.405	2.00	Pass	
		RB1#50	23.44	2.72	26.16	0.413	2.00	Pass	
		RB1#99	23.52	2.72	26.24	0.421	2.00	Pass	
		RB50#0	22.71	2.72	25.43	0.349	2.00	Pass	
		RB50#25	22.67	2.72	25.39	0.346	2.00	Pass	
		RB50#50	22.70	2.72	25.42	0.348	2.00	Pass	
		RB100#0	22.76	2.72	25.48	0.353	2.00	Pass	
MCH		QPSK	RB1#0	24.33	2.72	27.05	0.507	2.00	Pass
			RB1#50	24.35	2.72	27.07	0.509	2.00	Pass
			RB1#99	24.39	2.72	27.11	0.514	2.00	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	
<b>LTE BAND2</b>										
			RB50#0	23.35	2.72	26.07	0.405	2.00	Pass	
			RB50#25	23.28	2.72	26.00	0.398	2.00	Pass	
			RB50#50	23.18	2.72	25.90	0.389	2.00	Pass	
			RB100#0	23.36	2.72	26.08	0.406	2.00	Pass	
		16-QAM	RB1#0	23.08	2.72	25.80	0.380	2.00	Pass	
			RB1#50	23.10	2.72	25.82	0.382	2.00	Pass	
			RB1#99	23.04	2.72	25.76	0.377	2.00	Pass	
			RB50#0	22.27	2.72	24.99	0.316	2.00	Pass	
			RB50#25	22.28	2.72	25.00	0.316	2.00	Pass	
			RB50#50	22.35	2.72	25.07	0.321	2.00	Pass	
			RB100#0	22.30	2.72	25.02	0.318	2.00	Pass	
			QPSK	RB1#0	23.90	2.72	26.62	0.459	2.00	Pass
				RB1#50	23.86	2.72	26.58	0.455	2.00	Pass
				RB1#99	23.89	2.72	26.61	0.458	2.00	Pass
	RB50#0	22.87		2.72	25.59	0.362	2.00	Pass		
	RB50#25	22.87		2.72	25.59	0.362	2.00	Pass		
	RB50#50	22.68		2.72	25.40	0.347	2.00	Pass		
	RB100#0	22.75		2.72	25.47	0.352	2.00	Pass		
	16-QAM	RB1#0	22.85	2.72	25.57	0.361	2.00	Pass		
		RB1#50	22.77	2.72	25.49	0.354	2.00	Pass		
		RB1#99	22.88	2.72	25.60	0.363	2.00	Pass		
		RB50#0	21.75	2.72	24.47	0.280	2.00	Pass		
		RB50#25	21.73	2.72	24.45	0.279	2.00	Pass		
		RB50#50	21.82	2.72	24.54	0.284	2.00	Pass		
		RB100#0	21.77	2.72	24.49	0.281	2.00	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
<b>LTE BAND4</b>									
1.4 MHz	LCH	QPSK	RB1#0	23.15	3.16	26.31	0.428	2.00	Pass
			RB1#3	23.17	3.16	26.33	0.430	2.00	Pass
			RB1#5	23.13	3.16	26.29	0.426	2.00	Pass
			RB3#0	23.20	3.16	26.36	0.433	2.00	Pass
			RB3#2	23.11	3.16	26.27	0.424	2.00	Pass
			RB3#3	23.16	3.16	26.32	0.429	2.00	Pass
		RB6#0	22.15	3.16	25.31	0.340	2.00	Pass	
		16-QAM	RB1#0	23.06	3.16	26.22	0.419	2.00	Pass
			RB1#3	23.04	3.16	26.20	0.417	2.00	Pass
			RB1#5	23.14	3.16	26.30	0.427	2.00	Pass
			RB3#0	22.22	3.16	25.38	0.345	2.00	Pass
			RB3#2	22.24	3.16	25.40	0.347	2.00	Pass
	RB3#3		22.30	3.16	25.46	0.352	2.00	Pass	
	RB6#0	21.37	3.16	24.53	0.284	2.00	Pass		
	MCH	QPSK	RB1#0	23.28	3.16	26.44	0.441	2.00	Pass
			RB1#3	23.40	3.16	26.56	0.453	2.00	Pass
			RB1#5	23.33	3.16	26.49	0.446	2.00	Pass
			RB3#0	23.37	3.16	26.53	0.450	2.00	Pass
			RB3#2	23.31	3.16	26.47	0.444	2.00	Pass
			RB3#3	23.34	3.16	26.50	0.447	2.00	Pass
		RB6#0	22.39	3.16	25.55	0.359	2.00	Pass	
		16-QAM	RB1#0	23.28	3.16	26.44	0.441	2.00	Pass
			RB1#3	23.33	3.16	26.49	0.446	2.00	Pass
			RB1#5	23.30	3.16	26.46	0.443	2.00	Pass
			RB3#0	22.42	3.16	25.58	0.361	2.00	Pass
			RB3#2	22.49	3.16	25.65	0.367	2.00	Pass
	RB3#3		22.46	3.16	25.62	0.365	2.00	Pass	
	RB6#0	21.46	3.16	24.62	0.290	2.00	Pass		
	HCH	QPSK	RB1#0	23.66	3.16	26.82	0.481	2.00	Pass
			RB1#3	23.62	3.16	26.78	0.476	2.00	Pass
RB1#5			23.74	3.16	26.90	0.490	2.00	Pass	
RB3#0			23.55	3.16	26.71	0.469	2.00	Pass	
RB3#2			23.50	3.16	26.66	0.463	2.00	Pass	
RB3#3			23.42	3.16	26.58	0.455	2.00	Pass	
RB6#0		22.52	3.16	25.68	0.370	2.00	Pass		
16-QAM		RB1#0	23.42	3.16	26.58	0.455	2.00	Pass	
RB1#3	23.46	3.16	26.62	0.459	2.00	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	
<b>LTE BAND4</b>										
3 MHz			RB1#5	23.47	3.16	26.63	0.460	2.00	Pass	
			RB3#0	23.03	3.16	26.19	0.416	2.00	Pass	
			RB3#2	23.08	3.16	26.24	0.421	2.00	Pass	
			RB3#3	22.93	3.16	26.09	0.406	2.00	Pass	
			RB6#0	21.70	3.16	24.86	0.306	2.00	Pass	
	LCH	QPSK	RB1#0	23.01	3.16	26.17	0.414	2.00	Pass	
			RB1#7	23.10	3.16	26.26	0.423	2.00	Pass	
			RB1#14	23.01	3.16	26.17	0.414	2.00	Pass	
			RB8#0	22.13	3.16	25.29	0.338	2.00	Pass	
			RB8#4	22.21	3.16	25.37	0.344	2.00	Pass	
			RB8#7	22.18	3.16	25.34	0.342	2.00	Pass	
			RB15#0	22.15	3.16	25.31	0.340	2.00	Pass	
		16-QAM	RB1#0	22.73	3.16	25.89	0.388	2.00	Pass	
			RB1#7	22.76	3.16	25.92	0.391	2.00	Pass	
			RB1#14	22.68	3.16	25.84	0.384	2.00	Pass	
			RB8#0	21.15	3.16	24.31	0.270	2.00	Pass	
			RB8#4	21.15	3.16	24.31	0.270	2.00	Pass	
			RB8#7	21.22	3.16	24.38	0.274	2.00	Pass	
		MCH	QPSK	RB1#0	23.30	3.16	26.46	0.443	2.00	Pass
				RB1#7	23.31	3.16	26.47	0.444	2.00	Pass
	RB1#14			23.33	3.16	26.49	0.446	2.00	Pass	
	RB8#0			22.37	3.16	25.53	0.357	2.00	Pass	
	RB8#4			22.39	3.16	25.55	0.359	2.00	Pass	
	RB8#7			22.32	3.16	25.48	0.353	2.00	Pass	
	RB15#0			22.34	3.16	25.50	0.355	2.00	Pass	
	16-QAM		RB1#0	23.26	3.16	26.42	0.439	2.00	Pass	
			RB1#7	23.23	3.16	26.39	0.436	2.00	Pass	
			RB1#14	23.29	3.16	26.45	0.442	2.00	Pass	
			RB8#0	21.72	3.16	24.88	0.308	2.00	Pass	
			RB8#4	21.58	3.16	24.74	0.298	2.00	Pass	
RB8#7			21.72	3.16	24.88	0.308	2.00	Pass		
HCH	QPSK		RB1#0	23.68	3.16	26.84	0.483	2.00	Pass	
			RB1#7	23.72	3.16	26.88	0.488	2.00	Pass	
		RB1#14	23.71	3.16	26.87	0.486	2.00	Pass		
		RB8#0	22.58	3.16	25.74	0.375	2.00	Pass		
		RB8#4	22.48	3.16	25.64	0.366	2.00	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		
<b>LTE BAND4</b>											
		16-QAM	RB8#7	22.42	3.16	25.58	0.361	2.00	Pass		
			RB15#0	22.53	3.16	25.69	0.371	2.00	Pass		
			RB1#0	22.98	3.16	26.14	0.411	2.00	Pass		
			RB1#7	22.97	3.16	26.13	0.410	2.00	Pass		
			RB1#14	22.97	3.16	26.13	0.410	2.00	Pass		
			RB8#0	21.55	3.16	24.71	0.296	2.00	Pass		
			RB8#4	21.55	3.16	24.71	0.296	2.00	Pass		
			RB8#7	21.77	3.16	24.93	0.311	2.00	Pass		
					RB15#0	21.34	3.16	24.50	0.282	2.00	Pass
		5 MHz	LCH	QPSK	RB1#0	23.11	3.16	26.27	0.424	2.00	Pass
					RB1#13	23.06	3.16	26.22	0.419	2.00	Pass
					RB1#24	23.06	3.16	26.22	0.419	2.00	Pass
					RB12#0	22.13	3.16	25.29	0.338	2.00	Pass
					RB12#6	22.15	3.16	25.31	0.340	2.00	Pass
					RB12#13	22.28	3.16	25.44	0.350	2.00	Pass
RB25#0	22.22				3.16	25.38	0.345	2.00	Pass		
				16-QAM	RB1#0	21.88	3.16	25.04	0.319	2.00	Pass
					RB1#13	21.92	3.16	25.08	0.322	2.00	Pass
					RB1#24	22.01	3.16	25.17	0.329	2.00	Pass
					RB12#0	21.15	3.16	24.31	0.270	2.00	Pass
					RB12#6	21.17	3.16	24.33	0.271	2.00	Pass
					RB12#13	21.17	3.16	24.33	0.271	2.00	Pass
					RB25#0	21.32	3.16	24.48	0.281	2.00	Pass
	MCH		QPSK	RB1#0	23.35	3.16	26.51	0.448	2.00	Pass	
					RB1#13	23.34	3.16	26.50	0.447	2.00	Pass
					RB1#24	23.34	3.16	26.50	0.447	2.00	Pass
					RB12#0	22.30	3.16	25.46	0.352	2.00	Pass
					RB12#6	22.40	3.16	25.56	0.360	2.00	Pass
					RB12#13	22.31	3.16	25.47	0.352	2.00	Pass
					RB25#0	22.35	3.16	25.51	0.356	2.00	Pass
			16-QAM	RB1#0	22.21	3.16	25.37	0.344	2.00	Pass	
				RB1#13	22.18	3.16	25.34	0.342	2.00	Pass	
				RB1#24	22.17	3.16	25.33	0.341	2.00	Pass	
		RB12#0		21.44	3.16	24.60	0.288	2.00	Pass		
		RB12#6		21.41	3.16	24.57	0.286	2.00	Pass		
		RB12#13		21.40	3.16	24.56	0.286	2.00	Pass		
		RB25#0		21.50	3.16	24.66	0.292	2.00	Pass		
	HCH	QPSK	RB1#0	23.43	3.16	26.59	0.456	2.00	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
<b>LTE BAND4</b>									
			RB1#13	23.50	3.16	26.66	0.463	2.00	Pass
			RB1#24	23.52	3.16	26.68	0.466	2.00	Pass
			RB12#0	22.50	3.16	25.66	0.368	2.00	Pass
			RB12#6	22.60	3.16	25.76	0.377	2.00	Pass
			RB12#13	22.55	3.16	25.71	0.372	2.00	Pass
			RB25#0	22.58	3.16	25.74	0.375	2.00	Pass
		16-QAM	RB1#0	22.52	3.16	25.68	0.370	2.00	Pass
			RB1#13	22.51	3.16	25.67	0.369	2.00	Pass
			RB1#24	22.54	3.16	25.70	0.372	2.00	Pass
			RB12#0	21.61	3.16	24.77	0.300	2.00	Pass
			RB12#6	21.54	3.16	24.70	0.295	2.00	Pass
			RB12#13	21.56	3.16	24.72	0.296	2.00	Pass
			RB25#0	21.61	3.16	24.77	0.300	2.00	Pass
			10 MHz	LCH	QPSK	RB1#0	23.15	3.16	26.31
RB1#25	23.24	3.16				26.40	0.437	2.00	Pass
RB1#49	23.22	3.16				26.38	0.435	2.00	Pass
RB25#0	22.31	3.16				25.47	0.352	2.00	Pass
RB25#13	22.21	3.16				25.37	0.344	2.00	Pass
RB25#25	22.27	3.16				25.43	0.349	2.00	Pass
RB50#0	22.25	3.16				25.41	0.348	2.00	Pass
16-QAM	RB1#0	22.84			3.16	26.00	0.398	2.00	Pass
	RB1#25	22.96			3.16	26.12	0.409	2.00	Pass
	RB1#49	22.90			3.16	26.06	0.404	2.00	Pass
	RB25#0	21.07			3.16	24.23	0.265	2.00	Pass
	RB25#13	21.15			3.16	24.31	0.270	2.00	Pass
	RB25#25	21.27			3.16	24.43	0.277	2.00	Pass
	RB50#0	21.30			3.16	24.46	0.279	2.00	Pass
10 MHz	MCH	QPSK	RB1#0	23.45	3.16	26.61	0.458	2.00	Pass
			RB1#25	23.51	3.16	26.67	0.465	2.00	Pass
			RB1#49	23.50	3.16	26.66	0.463	2.00	Pass
			RB25#0	22.45	3.16	25.61	0.364	2.00	Pass
			RB25#13	22.42	3.16	25.58	0.361	2.00	Pass
			RB25#25	22.45	3.16	25.61	0.364	2.00	Pass
			RB50#0	22.44	3.16	25.60	0.363	2.00	Pass
		16-QAM	RB1#0	22.53	3.16	25.69	0.371	2.00	Pass
			RB1#25	22.52	3.16	25.68	0.370	2.00	Pass
			RB1#49	22.52	3.16	25.68	0.370	2.00	Pass
			RB25#0	21.40	3.16	24.56	0.286	2.00	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	
<b>LTE BAND4</b>										
15 MHz	HCH	QPSK	RB25#13	21.39	3.16	24.55	0.285	2.00	Pass	
			RB25#25	21.63	3.16	24.79	0.301	2.00	Pass	
			RB50#0	21.53	3.16	24.69	0.294	2.00	Pass	
		16-QAM	QPSK	RB1#0	23.58	3.16	26.74	0.472	2.00	Pass
				RB1#25	23.66	3.16	26.82	0.481	2.00	Pass
				RB1#49	23.67	3.16	26.83	0.482	2.00	Pass
			16-QAM	RB25#0	22.44	3.16	25.60	0.363	2.00	Pass
				RB25#13	22.50	3.16	25.66	0.368	2.00	Pass
				RB25#25	22.51	3.16	25.67	0.369	2.00	Pass
	RB50#0			22.53	3.16	25.69	0.371	2.00	Pass	
	RB1#0			22.93	3.16	26.09	0.406	2.00	Pass	
	RB1#25			22.93	3.16	26.09	0.406	2.00	Pass	
	LCH	QPSK	RB1#49	22.91	3.16	26.07	0.405	2.00	Pass	
			RB25#0	21.79	3.16	24.95	0.313	2.00	Pass	
			RB25#13	21.80	3.16	24.96	0.313	2.00	Pass	
			RB25#25	21.77	3.16	24.93	0.311	2.00	Pass	
			RB50#0	21.76	3.16	24.92	0.310	2.00	Pass	
			RB1#0	23.23	3.16	26.39	0.436	2.00	Pass	
		16-QAM	RB1#38	23.23	3.16	26.39	0.436	2.00	Pass	
			RB1#74	23.24	3.16	26.40	0.437	2.00	Pass	
			RB36#0	22.30	3.16	25.46	0.352	2.00	Pass	
RB36#19			22.41	3.16	25.57	0.361	2.00	Pass		
RB36#39			22.29	3.16	25.45	0.351	2.00	Pass		
RB75#0			22.34	3.16	25.50	0.355	2.00	Pass		
MCH	QPSK	RB1#0	22.93	3.16	26.09	0.406	2.00	Pass		
		RB1#38	22.96	3.16	26.12	0.409	2.00	Pass		
		RB1#74	22.96	3.16	26.12	0.409	2.00	Pass		
		RB36#0	21.29	3.16	24.45	0.279	2.00	Pass		
		RB36#19	21.34	3.16	24.50	0.282	2.00	Pass		
		RB36#39	21.32	3.16	24.48	0.281	2.00	Pass		
		RB75#0	21.42	3.16	24.58	0.287	2.00	Pass		
MCH	QPSK	RB1#0	23.46	3.16	26.62	0.459	2.00	Pass		
		RB1#38	23.52	3.16	26.68	0.466	2.00	Pass		
		RB1#74	23.49	3.16	26.65	0.462	2.00	Pass		
		RB36#0	22.45	3.16	25.61	0.364	2.00	Pass		
		RB36#19	22.32	3.16	25.48	0.353	2.00	Pass		
		RB36#39	22.29	3.16	25.45	0.351	2.00	Pass		
		RB75#0	22.46	3.16	25.62	0.365	2.00	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
<b>LTE BAND4</b>									
20 MHz	HCH	16-QAM	RB1#0	22.58	3.16	25.74	0.375	2.00	Pass
			RB1#38	22.57	3.16	25.73	0.374	2.00	Pass
			RB1#74	22.51	3.16	25.67	0.369	2.00	Pass
			RB36#0	21.53	3.16	24.69	0.294	2.00	Pass
			RB36#19	21.53	3.16	24.69	0.294	2.00	Pass
			RB36#39	21.58	3.16	24.74	0.298	2.00	Pass
			RB75#0	21.56	3.16	24.72	0.296	2.00	Pass
		QPSK	RB1#0	23.58	3.16	26.74	0.472	2.00	Pass
			RB1#38	23.55	3.16	26.71	0.469	2.00	Pass
			RB1#74	23.62	3.16	26.78	0.476	2.00	Pass
			RB36#0	22.42	3.16	25.58	0.361	2.00	Pass
			RB36#19	22.43	3.16	25.59	0.362	2.00	Pass
			RB36#39	22.49	3.16	25.65	0.367	2.00	Pass
			RB75#0	22.52	3.16	25.68	0.370	2.00	Pass
	16-QAM	RB1#0	23.43	3.16	26.59	0.456	2.00	Pass	
		RB1#38	23.46	3.16	26.62	0.459	2.00	Pass	
		RB1#74	23.53	3.16	26.69	0.467	2.00	Pass	
		RB36#0	21.55	3.16	24.71	0.296	2.00	Pass	
		RB36#19	21.51	3.16	24.67	0.293	2.00	Pass	
		RB36#39	21.50	3.16	24.66	0.292	2.00	Pass	
		RB75#0	21.63	3.16	24.79	0.301	2.00	Pass	
	LCH	QPSK	RB1#0	23.24	3.16	26.40	0.437	2.00	Pass
			RB1#50	23.29	3.16	26.45	0.442	2.00	Pass
			RB1#99	23.30	3.16	26.46	0.443	2.00	Pass
			RB50#0	22.37	3.16	25.53	0.357	2.00	Pass
			RB50#25	22.21	3.16	25.37	0.344	2.00	Pass
			RB50#50	22.36	3.16	25.52	0.356	2.00	Pass
			RB100#0	22.28	3.16	25.44	0.350	2.00	Pass
16-QAM		RB1#0	22.13	3.16	25.29	0.338	2.00	Pass	
		RB1#50	22.13	3.16	25.29	0.338	2.00	Pass	
		RB1#99	22.19	3.16	25.35	0.343	2.00	Pass	
		RB50#0	21.47	3.16	24.63	0.290	2.00	Pass	
		RB50#25	21.35	3.16	24.51	0.282	2.00	Pass	
		RB50#50	21.51	3.16	24.67	0.293	2.00	Pass	
		RB100#0	21.40	3.16	24.56	0.286	2.00	Pass	
MCH		QPSK	RB1#0	23.56	3.16	26.72	0.470	2.00	Pass
			RB1#50	23.56	3.16	26.72	0.470	2.00	Pass
			RB1#99	23.52	3.16	26.68	0.466	2.00	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	
<b>LTE BAND4</b>										
			RB50#0	22.41	3.16	25.57	0.361	2.00	Pass	
			RB50#25	22.40	3.16	25.56	0.360	2.00	Pass	
			RB50#50	22.40	3.16	25.56	0.360	2.00	Pass	
			RB100#0	22.46	3.16	25.62	0.365	2.00	Pass	
		16-QAM	RB1#0	22.66	3.16	25.82	0.382	2.00	Pass	
			RB1#50	22.73	3.16	25.89	0.388	2.00	Pass	
			RB1#99	22.85	3.16	26.01	0.399	2.00	Pass	
			RB50#0	21.36	3.16	24.52	0.283	2.00	Pass	
			RB50#25	21.50	3.16	24.66	0.292	2.00	Pass	
			RB50#50	21.51	3.16	24.67	0.293	2.00	Pass	
			RB100#0	21.51	3.16	24.67	0.293	2.00	Pass	
			QPSK	RB1#0	23.38	3.16	26.54	0.451	2.00	Pass
				RB1#50	23.45	3.16	26.61	0.458	2.00	Pass
				RB1#99	23.54	3.16	26.70	0.468	2.00	Pass
	RB50#0	22.46		3.16	25.62	0.365	2.00	Pass		
	RB50#25	22.30		3.16	25.46	0.352	2.00	Pass		
	RB50#50	22.40		3.16	25.56	0.360	2.00	Pass		
	RB100#0	22.27		3.16	25.43	0.349	2.00	Pass		
	16-QAM	RB1#0	22.70	3.16	25.86	0.385	2.00	Pass		
		RB1#50	22.73	3.16	25.89	0.388	2.00	Pass		
		RB1#99	22.76	3.16	25.92	0.391	2.00	Pass		
		RB50#0	21.24	3.16	24.40	0.275	2.00	Pass		
		RB50#25	21.34	3.16	24.50	0.282	2.00	Pass		
		RB50#50	21.48	3.16	24.64	0.291	2.00	Pass		
		RB100#0	21.37	3.16	24.53	0.284	2.00	Pass		

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
<b>LTE BAND5</b>										
1.4 MHz	LCH	QPSK	RB1#0	22.68	1.87	-0.28	22.40	0.174	7.00	Pass
			RB1#3	22.69	1.87	-0.28	22.41	0.174	7.00	Pass
			RB1#5	22.66	1.87	-0.28	22.38	0.173	7.00	Pass
			RB3#0	22.68	1.87	-0.28	22.40	0.174	7.00	Pass
			RB3#2	22.69	1.87	-0.28	22.41	0.174	7.00	Pass
			RB3#3	22.75	1.87	-0.28	22.47	0.177	7.00	Pass
			RB6#0	21.66	1.87	-0.28	21.38	0.137	7.00	Pass
		16-QAM	RB1#0	22.53	1.87	-0.28	22.25	0.168	7.00	Pass
			RB1#3	22.53	1.87	-0.28	22.25	0.168	7.00	Pass
			RB1#5	22.54	1.87	-0.28	22.26	0.168	7.00	Pass
			RB3#0	21.78	1.87	-0.28	21.50	0.141	7.00	Pass
			RB3#2	21.73	1.87	-0.28	21.45	0.140	7.00	Pass
			RB3#3	21.75	1.87	-0.28	21.47	0.140	7.00	Pass
			RB6#0	20.78	1.87	-0.28	20.50	0.112	7.00	Pass
	MCH	QPSK	RB1#0	22.57	1.87	-0.28	22.29	0.169	7.00	Pass
			RB1#3	22.57	1.87	-0.28	22.29	0.169	7.00	Pass
			RB1#5	22.62	1.87	-0.28	22.34	0.171	7.00	Pass
			RB3#0	22.75	1.87	-0.28	22.47	0.177	7.00	Pass
			RB3#2	22.65	1.87	-0.28	22.37	0.173	7.00	Pass
			RB3#3	22.69	1.87	-0.28	22.41	0.174	7.00	Pass
			RB6#0	21.64	1.87	-0.28	21.36	0.137	7.00	Pass
		16-QAM	RB1#0	22.60	1.87	-0.28	22.32	0.171	7.00	Pass
			RB1#3	22.47	1.87	-0.28	22.19	0.166	7.00	Pass
			RB1#5	22.44	1.87	-0.28	22.16	0.164	7.00	Pass
			RB3#0	21.64	1.87	-0.28	21.36	0.137	7.00	Pass
			RB3#2	21.64	1.87	-0.28	21.36	0.137	7.00	Pass
			RB3#3	21.59	1.87	-0.28	21.31	0.135	7.00	Pass
			RB6#0	20.40	1.87	-0.28	20.12	0.103	7.00	Pass
	HCH	QPSK	RB1#0	22.64	1.87	-0.28	22.36	0.172	7.00	Pass
			RB1#3	22.78	1.87	-0.28	22.50	0.178	7.00	Pass
			RB1#5	22.75	1.87	-0.28	22.47	0.177	7.00	Pass
			RB3#0	22.63	1.87	-0.28	22.35	0.172	7.00	Pass
			RB3#2	22.66	1.87	-0.28	22.38	0.173	7.00	Pass
			RB3#3	22.61	1.87	-0.28	22.33	0.171	7.00	Pass
			RB6#0	21.68	1.87	-0.28	21.40	0.138	7.00	Pass
		16-QAM	RB1#0	22.42	1.87	-0.28	22.14	0.164	7.00	Pass
RB1#3			22.50	1.87	-0.28	22.22	0.167	7.00	Pass	

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
<b>LTE BAND5</b>										
3 MHz			RB1#5	22.44	1.87	-0.28	22.16	0.164	7.00	Pass
			RB3#0	21.69	1.87	-0.28	21.41	0.138	7.00	Pass
			RB3#2	21.62	1.87	-0.28	21.34	0.136	7.00	Pass
			RB3#3	21.55	1.87	-0.28	21.27	0.134	7.00	Pass
			RB6#0	20.61	1.87	-0.28	20.33	0.108	7.00	Pass
	LCH	QPSK	RB1#0	22.63	1.87	-0.28	22.35	0.172	7.00	Pass
			RB1#7	22.65	1.87	-0.28	22.37	0.173	7.00	Pass
			RB1#14	22.61	1.87	-0.28	22.33	0.171	7.00	Pass
			RB8#0	21.72	1.87	-0.28	21.44	0.139	7.00	Pass
			RB8#4	21.66	1.87	-0.28	21.38	0.137	7.00	Pass
			RB8#7	21.64	1.87	-0.28	21.36	0.137	7.00	Pass
		RB15#0	21.74	1.87	-0.28	21.46	0.140	7.00	Pass	
		16-QAM	RB1#0	22.05	1.87	-0.28	21.77	0.150	7.00	Pass
			RB1#7	22.01	1.87	-0.28	21.73	0.149	7.00	Pass
			RB1#14	22.01	1.87	-0.28	21.73	0.149	7.00	Pass
			RB8#0	20.60	1.87	-0.28	20.32	0.108	7.00	Pass
			RB8#4	20.69	1.87	-0.28	20.41	0.110	7.00	Pass
			RB8#7	20.71	1.87	-0.28	20.43	0.110	7.00	Pass
	RB15#0	20.82	1.87	-0.28	20.54	0.113	7.00	Pass		
	MCH	QPSK	RB1#0	22.58	1.87	-0.28	22.30	0.170	7.00	Pass
			RB1#7	22.60	1.87	-0.28	22.32	0.171	7.00	Pass
			RB1#14	22.65	1.87	-0.28	22.37	0.173	7.00	Pass
			RB8#0	21.73	1.87	-0.28	21.45	0.140	7.00	Pass
			RB8#4	21.68	1.87	-0.28	21.40	0.138	7.00	Pass
			RB8#7	21.58	1.87	-0.28	21.30	0.135	7.00	Pass
		RB15#0	21.75	1.87	-0.28	21.47	0.140	7.00	Pass	
		16-QAM	RB1#0	22.58	1.87	-0.28	22.30	0.170	7.00	Pass
			RB1#7	22.41	1.87	-0.28	22.13	0.163	7.00	Pass
RB1#14			22.42	1.87	-0.28	22.14	0.164	7.00	Pass	
RB8#0			20.93	1.87	-0.28	20.65	0.116	7.00	Pass	
RB8#4			20.89	1.87	-0.28	20.61	0.115	7.00	Pass	
RB8#7			20.90	1.87	-0.28	20.62	0.115	7.00	Pass	
RB15#0	20.81	1.87	-0.28	20.53	0.113	7.00	Pass			
HCH	QPSK	RB1#0	22.65	1.87	-0.28	22.37	0.173	7.00	Pass	
		RB1#7	22.61	1.87	-0.28	22.33	0.171	7.00	Pass	
		RB1#14	22.66	1.87	-0.28	22.38	0.173	7.00	Pass	
		RB8#0	21.66	1.87	-0.28	21.38	0.137	7.00	Pass	
		RB8#4	21.69	1.87	-0.28	21.41	0.138	7.00	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	
<b>LTE BAND5</b>											
5 MHz	LCH	16-QAM	RB8#7	21.61	1.87	-0.28	21.33	0.136	7.00	Pass	
			RB15#0	21.66	1.87	-0.28	21.38	0.137	7.00	Pass	
			RB1#0	22.59	1.87	-0.28	22.31	0.170	7.00	Pass	
			RB1#7	22.57	1.87	-0.28	22.29	0.169	7.00	Pass	
			RB1#14	22.44	1.87	-0.28	22.16	0.164	7.00	Pass	
			RB8#0	20.79	1.87	-0.28	20.51	0.112	7.00	Pass	
			RB8#4	20.78	1.87	-0.28	20.50	0.112	7.00	Pass	
			RB8#7	20.64	1.87	-0.28	20.36	0.109	7.00	Pass	
	5 MHz	LCH	QPSK	RB1#0	22.64	1.87	-0.28	22.36	0.172	7.00	Pass
				RB1#13	22.54	1.87	-0.28	22.26	0.168	7.00	Pass
				RB1#24	22.64	1.87	-0.28	22.36	0.172	7.00	Pass
				RB12#0	21.58	1.87	-0.28	21.30	0.135	7.00	Pass
				RB12#6	21.55	1.87	-0.28	21.27	0.134	7.00	Pass
				RB12#13	21.68	1.87	-0.28	21.40	0.138	7.00	Pass
				RB25#0	21.63	1.87	-0.28	21.35	0.136	7.00	Pass
				MCH	16-QAM	RB1#0	21.43	1.87	-0.28	21.15	0.130
RB1#13		21.41	1.87			-0.28	21.13	0.130	7.00	Pass	
RB1#24		21.41	1.87			-0.28	21.13	0.130	7.00	Pass	
RB12#0		20.66	1.87			-0.28	20.38	0.109	7.00	Pass	
RB12#6		20.65	1.87			-0.28	20.37	0.109	7.00	Pass	
RB12#13		20.70	1.87			-0.28	20.42	0.110	7.00	Pass	
RB25#0		20.83	1.87			-0.28	20.55	0.114	7.00	Pass	
MCH		QPSK	RB1#0			22.64	1.87	-0.28	22.36	0.172	7.00
			RB1#13	22.60	1.87	-0.28	22.32	0.171	7.00	Pass	
	RB1#24		22.72	1.87	-0.28	22.44	0.175	7.00	Pass		
	RB12#0		21.78	1.87	-0.28	21.50	0.141	7.00	Pass		
	RB12#6		21.75	1.87	-0.28	21.47	0.140	7.00	Pass		
	RB12#13		21.64	1.87	-0.28	21.36	0.137	7.00	Pass		
	RB25#0		21.70	1.87	-0.28	21.42	0.139	7.00	Pass		
	HCH		16-QAM	RB1#0	21.63	1.87	-0.28	21.35	0.136	7.00	Pass
RB1#13		21.55		1.87	-0.28	21.27	0.134	7.00	Pass		
RB1#24		21.61		1.87	-0.28	21.33	0.136	7.00	Pass		
RB12#0		20.78		1.87	-0.28	20.50	0.112	7.00	Pass		
RB12#6		20.77		1.87	-0.28	20.49	0.112	7.00	Pass		
RB12#13		20.79		1.87	-0.28	20.51	0.112	7.00	Pass		
RB25#0		20.80		1.87	-0.28	20.52	0.113	7.00	Pass		
HCH		QPSK		RB1#0	22.61	1.87	-0.28	22.33	0.171	7.00	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
<b>LTE BAND5</b>										
			RB1#13	22.65	1.87	-0.28	22.37	0.173	7.00	Pass
			RB1#24	22.72	1.87	-0.28	22.44	0.175	7.00	Pass
			RB12#0	21.73	1.87	-0.28	21.45	0.140	7.00	Pass
			RB12#6	21.72	1.87	-0.28	21.44	0.139	7.00	Pass
			RB12#13	21.71	1.87	-0.28	21.43	0.139	7.00	Pass
			RB25#0	21.82	1.87	-0.28	21.54	0.143	7.00	Pass
		16-QAM	RB1#0	21.54	1.87	-0.28	21.26	0.134	7.00	Pass
			RB1#13	21.53	1.87	-0.28	21.25	0.133	7.00	Pass
			RB1#24	21.48	1.87	-0.28	21.20	0.132	7.00	Pass
			RB12#0	20.70	1.87	-0.28	20.42	0.110	7.00	Pass
			RB12#6	20.83	1.87	-0.28	20.55	0.114	7.00	Pass
			RB12#13	20.78	1.87	-0.28	20.50	0.112	7.00	Pass
			RB25#0	20.71	1.87	-0.28	20.43	0.110	7.00	Pass
			10 MHz	LCH	QPSK	RB1#0	22.66	1.87	-0.28	22.38
RB1#25	22.65	1.87				-0.28	22.37	0.173	7.00	Pass
RB1#49	22.64	1.87				-0.28	22.36	0.172	7.00	Pass
RB25#0	21.63	1.87				-0.28	21.35	0.136	7.00	Pass
RB25#13	21.51	1.87				-0.28	21.23	0.133	7.00	Pass
RB25#25	21.77	1.87				-0.28	21.49	0.141	7.00	Pass
RB50#0	21.47	1.87				-0.28	21.19	0.132	7.00	Pass
16-QAM	RB1#0	22.18		1.87	-0.28	21.90	0.155	7.00	Pass	
	RB1#25	22.18		1.87	-0.28	21.90	0.155	7.00	Pass	
	RB1#49	22.10		1.87	-0.28	21.82	0.152	7.00	Pass	
	RB25#0	20.66		1.87	-0.28	20.38	0.109	7.00	Pass	
	RB25#13	20.56		1.87	-0.28	20.28	0.107	7.00	Pass	
	RB25#25	20.58		1.87	-0.28	20.30	0.107	7.00	Pass	
	RB50#0	20.60		1.87	-0.28	20.32	0.108	7.00	Pass	
MCH	QPSK	RB1#0	22.68	1.87	-0.28	22.40	0.174	7.00	Pass	
		RB1#25	22.76	1.87	-0.28	22.48	0.177	7.00	Pass	
		RB1#49	22.82	1.87	-0.28	22.54	0.179	7.00	Pass	
		RB25#0	21.80	1.87	-0.28	21.52	0.142	7.00	Pass	
		RB25#13	21.74	1.87	-0.28	21.46	0.140	7.00	Pass	
		RB25#25	21.89	1.87	-0.28	21.61	0.145	7.00	Pass	
		RB50#0	21.68	1.87	-0.28	21.40	0.138	7.00	Pass	
	16-QAM	RB1#0	21.82	1.87	-0.28	21.54	0.143	7.00	Pass	
		RB1#25	21.80	1.87	-0.28	21.52	0.142	7.00	Pass	
		RB1#49	21.77	1.87	-0.28	21.49	0.141	7.00	Pass	
		RB25#0	20.84	1.87	-0.28	20.56	0.114	7.00	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		
<b>LTE BAND5</b>												
			RB25#13	20.79	1.87	-0.28	20.51	0.112	7.00	Pass		
			RB25#25	20.63	1.87	-0.28	20.35	0.108	7.00	Pass		
			RB50#0	20.75	1.87	-0.28	20.47	0.111	7.00	Pass		
		HCH	QPSK	RB1#0	22.59	1.87	-0.28	22.31	0.170	7.00	Pass	
				RB1#25	22.62	1.87	-0.28	22.34	0.171	7.00	Pass	
				RB1#49	22.74	1.87	-0.28	22.46	0.176	7.00	Pass	
				RB25#0	21.63	1.87	-0.28	21.35	0.136	7.00	Pass	
				RB25#13	21.52	1.87	-0.28	21.24	0.133	7.00	Pass	
				RB25#25	21.64	1.87	-0.28	21.36	0.137	7.00	Pass	
				RB50#0	21.57	1.87	-0.28	21.29	0.135	7.00	Pass	
				16-QAM	RB1#0	21.81	1.87	-0.28	21.53	0.142	7.00	Pass
					RB1#25	21.70	1.87	-0.28	21.42	0.139	7.00	Pass
					RB1#49	21.72	1.87	-0.28	21.44	0.139	7.00	Pass
					RB25#0	20.83	1.87	-0.28	20.55	0.114	7.00	Pass
					RB25#13	20.80	1.87	-0.28	20.52	0.113	7.00	Pass
					RB25#25	20.83	1.87	-0.28	20.55	0.114	7.00	Pass
					RB50#0	20.71	1.87	-0.28	20.43	0.110	7.00	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
<b>LTE BAND7</b>									
5 MHz	LCH	QPSK	RB1#0	23.51	2.12	25.63	0.366	2.00	Pass
			RB1#13	23.49	2.12	25.61	0.364	2.00	Pass
			RB1#24	23.47	2.12	25.59	0.362	2.00	Pass
			RB12#0	22.53	2.12	24.65	0.292	2.00	Pass
			RB12#6	22.60	2.12	24.72	0.296	2.00	Pass
			RB12#13	22.57	2.12	24.69	0.294	2.00	Pass
			RB25#0	22.44	2.12	24.56	0.286	2.00	Pass
		16-QAM	RB1#0	22.56	2.12	24.68	0.294	2.00	Pass
			RB1#13	22.58	2.12	24.70	0.295	2.00	Pass
			RB1#24	22.57	2.12	24.69	0.294	2.00	Pass
			RB12#0	21.41	2.12	23.53	0.225	2.00	Pass
			RB12#6	21.59	2.12	23.71	0.235	2.00	Pass
			RB12#13	21.62	2.12	23.74	0.237	2.00	Pass
			RB25#0	21.59	2.12	23.71	0.235	2.00	Pass
	MCH	QPSK	RB1#0	23.53	2.12	25.65	0.367	2.00	Pass
			RB1#13	23.62	2.12	25.74	0.375	2.00	Pass
			RB1#24	23.52	2.12	25.64	0.366	2.00	Pass
			RB12#0	22.45	2.12	24.57	0.286	2.00	Pass
			RB12#6	22.61	2.12	24.73	0.297	2.00	Pass
			RB12#13	22.52	2.12	24.64	0.291	2.00	Pass
			RB25#0	22.49	2.12	24.61	0.289	2.00	Pass
		16-QAM	RB1#0	22.43	2.12	24.55	0.285	2.00	Pass
			RB1#13	22.46	2.12	24.58	0.287	2.00	Pass
			RB1#24	22.59	2.12	24.71	0.296	2.00	Pass
			RB12#0	21.70	2.12	23.82	0.241	2.00	Pass
			RB12#6	21.68	2.12	23.80	0.240	2.00	Pass
			RB12#13	21.57	2.12	23.69	0.234	2.00	Pass
			RB25#0	21.87	2.12	23.99	0.251	2.00	Pass
	HCH	QPSK	RB1#0	23.33	2.12	25.45	0.351	2.00	Pass
			RB1#13	23.41	2.12	25.53	0.357	2.00	Pass
			RB1#24	23.41	2.12	25.53	0.357	2.00	Pass
			RB12#0	22.56	2.12	24.68	0.294	2.00	Pass
			RB12#6	22.49	2.12	24.61	0.289	2.00	Pass
			RB12#13	22.34	2.12	24.46	0.279	2.00	Pass
			RB25#0	22.45	2.12	24.57	0.286	2.00	Pass
		16-QAM	RB1#0	22.47	2.12	24.59	0.288	2.00	Pass
RB1#13			22.54	2.12	24.66	0.292	2.00	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	
<b>LTE BAND7</b>										
10 MHz			RB1#24	22.44	2.12	24.56	0.286	2.00	Pass	
			RB12#0	21.60	2.12	23.72	0.236	2.00	Pass	
			RB12#6	21.67	2.12	23.79	0.239	2.00	Pass	
			RB12#13	21.63	2.12	23.75	0.237	2.00	Pass	
			RB25#0	21.58	2.12	23.70	0.234	2.00	Pass	
	LCH	QPSK	RB1#0	23.46	2.12	25.58	0.361	2.00	Pass	
			RB1#25	23.41	2.12	25.53	0.357	2.00	Pass	
			RB1#49	23.32	2.12	25.44	0.350	2.00	Pass	
			RB25#0	22.43	2.12	24.55	0.285	2.00	Pass	
			RB25#13	22.63	2.12	24.75	0.299	2.00	Pass	
			RB25#25	22.44	2.12	24.56	0.286	2.00	Pass	
			RB50#0	22.64	2.12	24.76	0.299	2.00	Pass	
		16-QAM	RB1#0	23.37	2.12	25.49	0.354	2.00	Pass	
			RB1#25	23.28	2.12	25.40	0.347	2.00	Pass	
			RB1#49	23.36	2.12	25.48	0.353	2.00	Pass	
			RB25#0	21.58	2.12	23.70	0.234	2.00	Pass	
			RB25#13	21.51	2.12	23.63	0.231	2.00	Pass	
			RB25#25	21.58	2.12	23.70	0.234	2.00	Pass	
		MCH	QPSK	RB1#0	23.58	2.12	25.70	0.372	2.00	Pass
				RB1#25	23.70	2.12	25.82	0.382	2.00	Pass
	RB1#49			23.62	2.12	25.74	0.375	2.00	Pass	
	RB25#0			22.73	2.12	24.85	0.305	2.00	Pass	
	RB25#13			22.59	2.12	24.71	0.296	2.00	Pass	
	RB25#25			22.59	2.12	24.71	0.296	2.00	Pass	
	RB50#0			22.43	2.12	24.55	0.285	2.00	Pass	
	16-QAM		RB1#0	22.87	2.12	24.99	0.316	2.00	Pass	
			RB1#25	22.91	2.12	25.03	0.318	2.00	Pass	
			RB1#49	22.81	2.12	24.93	0.311	2.00	Pass	
			RB25#0	21.72	2.12	23.84	0.242	2.00	Pass	
			RB25#13	21.73	2.12	23.85	0.243	2.00	Pass	
RB25#25			21.67	2.12	23.79	0.239	2.00	Pass		
RB50#0			21.75	2.12	23.87	0.244	2.00	Pass		
HCH			QPSK	RB1#0	23.49	2.12	25.61	0.364	2.00	Pass
	RB1#25	23.53		2.12	25.65	0.367	2.00	Pass		
	RB1#49	23.44		2.12	25.56	0.360	2.00	Pass		
	RB25#0	22.55		2.12	24.67	0.293	2.00	Pass		
	RB25#13	22.44		2.12	24.56	0.286	2.00	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		
<b>LTE BAND7</b>											
		16-QAM	RB25#25	22.44	2.12	24.56	0.286	2.00	Pass		
			RB50#0	22.46	2.12	24.58	0.287	2.00	Pass		
			RB1#0	22.78	2.12	24.90	0.309	2.00	Pass		
			RB1#25	22.78	2.12	24.90	0.309	2.00	Pass		
			RB1#49	22.70	2.12	24.82	0.303	2.00	Pass		
			RB25#0	21.74	2.12	23.86	0.243	2.00	Pass		
			RB25#13	21.71	2.12	23.83	0.242	2.00	Pass		
			RB25#25	21.71	2.12	23.83	0.242	2.00	Pass		
		15 MHz	LCH	QPSK	RB1#0	23.39	2.12	25.51	0.356	2.00	Pass
					RB1#38	23.39	2.12	25.51	0.356	2.00	Pass
					RB1#74	23.41	2.12	25.53	0.357	2.00	Pass
					RB36#0	22.57	2.12	24.69	0.294	2.00	Pass
					RB36#19	22.58	2.12	24.70	0.295	2.00	Pass
					RB36#39	22.42	2.12	24.54	0.284	2.00	Pass
					RB75#0	22.44	2.12	24.56	0.286	2.00	Pass
				16-QAM	RB1#0	23.36	2.12	25.48	0.353	2.00	Pass
RB1#38	23.37				2.12	25.49	0.354	2.00	Pass		
RB1#74	23.35				2.12	25.47	0.352	2.00	Pass		
RB36#0	21.65				2.12	23.77	0.238	2.00	Pass		
RB36#19	21.62				2.12	23.74	0.237	2.00	Pass		
RB36#39	21.62				2.12	23.74	0.237	2.00	Pass		
RB75#0	21.68				2.12	23.80	0.240	2.00	Pass		
MCH	QPSK			RB1#0	23.56	2.12	25.68	0.370	2.00	Pass	
				RB1#38	23.65	2.12	25.77	0.378	2.00	Pass	
		RB1#74	23.56	2.12	25.68	0.370	2.00	Pass			
		RB36#0	22.55	2.12	24.67	0.293	2.00	Pass			
		RB36#19	22.44	2.12	24.56	0.286	2.00	Pass			
		RB36#39	22.45	2.12	24.57	0.286	2.00	Pass			
		RB75#0	22.66	2.12	24.78	0.301	2.00	Pass			
	16-QAM	RB1#0	22.66	2.12	24.78	0.301	2.00	Pass			
		RB1#38	22.83	2.12	24.95	0.313	2.00	Pass			
		RB1#74	22.78	2.12	24.90	0.309	2.00	Pass			
		RB36#0	21.80	2.12	23.92	0.247	2.00	Pass			
		RB36#19	21.81	2.12	23.93	0.247	2.00	Pass			
		RB36#39	21.78	2.12	23.90	0.245	2.00	Pass			
		RB75#0	21.69	2.12	23.81	0.240	2.00	Pass			
HCH	QPSK	RB1#0	23.48	2.12	25.60	0.363	2.00	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
<b>LTE BAND7</b>									
			RB1#38	23.49	2.12	25.61	0.364	2.00	Pass
			RB1#74	23.47	2.12	25.59	0.362	2.00	Pass
			RB36#0	22.41	2.12	24.53	0.284	2.00	Pass
			RB36#19	22.54	2.12	24.66	0.292	2.00	Pass
			RB36#39	22.38	2.12	24.50	0.282	2.00	Pass
			RB75#0	22.40	2.12	24.52	0.283	2.00	Pass
		16-QAM	RB1#0	23.61	2.12	25.73	0.374	2.00	Pass
			RB1#38	23.66	2.12	25.78	0.378	2.00	Pass
			RB1#74	23.69	2.12	25.81	0.381	2.00	Pass
			RB36#0	21.63	2.12	23.75	0.237	2.00	Pass
			RB36#19	21.51	2.12	23.63	0.231	2.00	Pass
			RB36#39	21.52	2.12	23.64	0.231	2.00	Pass
			RB75#0	21.54	2.12	23.66	0.232	2.00	Pass
			20 MHz	LCH	QPSK	RB1#0	23.51	2.12	25.63
RB1#50	23.39	2.12				25.51	0.356	2.00	Pass
RB1#99	23.41	2.12				25.53	0.357	2.00	Pass
RB50#0	22.49	2.12				24.61	0.289	2.00	Pass
RB50#25	22.48	2.12				24.60	0.288	2.00	Pass
RB50#50	22.52	2.12				24.64	0.291	2.00	Pass
16-QAM	RB100#0	22.53			2.12	24.65	0.292	2.00	Pass
	RB1#0	22.36			2.12	24.48	0.281	2.00	Pass
	RB1#50	22.32			2.12	24.44	0.278	2.00	Pass
	RB1#99	22.37			2.12	24.49	0.281	2.00	Pass
	RB50#0	21.68			2.12	23.80	0.240	2.00	Pass
	RB50#25	21.71			2.12	23.83	0.242	2.00	Pass
	RB50#50	21.70			2.12	23.82	0.241	2.00	Pass
	RB100#0	21.64			2.12	23.76	0.238	2.00	Pass
20 MHz	MCH	QPSK	RB1#0	23.62	2.12	25.74	0.375	2.00	Pass
			RB1#50	23.62	2.12	25.74	0.375	2.00	Pass
			RB1#99	23.57	2.12	25.69	0.371	2.00	Pass
			RB50#0	22.48	2.12	24.60	0.288	2.00	Pass
			RB50#25	22.50	2.12	24.62	0.290	2.00	Pass
			RB50#50	22.37	2.12	24.49	0.281	2.00	Pass
		16-QAM	RB100#0	22.65	2.12	24.77	0.300	2.00	Pass
			RB1#0	22.94	2.12	25.06	0.321	2.00	Pass
			RB1#50	22.95	2.12	25.07	0.321	2.00	Pass
			RB1#99	22.98	2.12	25.10	0.324	2.00	Pass
			RB50#0	21.60	2.12	23.72	0.236	2.00	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		
<b>LTE BAND7</b>											
			RB50#25	21.64	2.12	23.76	0.238	2.00	Pass		
			RB50#50	21.58	2.12	23.70	0.234	2.00	Pass		
			RB100#0	21.54	2.12	23.66	0.232	2.00	Pass		
	HCH	QPSK	RB1#0	23.63	2.12	25.75	0.376	2.00	Pass		
			RB1#50	23.60	2.12	25.72	0.373	2.00	Pass		
			RB1#99	23.58	2.12	25.70	0.372	2.00	Pass		
			RB50#0	22.46	2.12	24.58	0.287	2.00	Pass		
			RB50#25	22.48	2.12	24.60	0.288	2.00	Pass		
			RB50#50	22.34	2.12	24.46	0.279	2.00	Pass		
			RB100#0	22.50	2.12	24.62	0.290	2.00	Pass		
			16-QAM	RB1#0	22.54	2.12	24.66	0.292	2.00	Pass	
				RB1#50	22.52	2.12	24.64	0.291	2.00	Pass	
		RB1#99		22.56	2.12	24.68	0.294	2.00	Pass		
		RB50#0		21.47	2.12	23.59	0.229	2.00	Pass		
		RB50#25		21.46	2.12	23.58	0.228	2.00	Pass		
		RB50#50		21.42	2.12	23.54	0.226	2.00	Pass		
					RB100#0	21.56	2.12	23.68	0.233	2.00	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
<b>LTE BAND38</b>									
5 MHz	LCH	QPSK	RB1#0	23.28	2.66	25.94	0.393	2.00	Pass
			RB1#13	23.26	2.66	25.92	0.391	2.00	Pass
			RB1#24	23.33	2.66	25.99	0.397	2.00	Pass
			RB12#0	22.16	2.66	24.82	0.303	2.00	Pass
			RB12#6	22.20	2.66	24.86	0.306	2.00	Pass
			RB12#13	22.25	2.66	24.91	0.310	2.00	Pass
		16-QAM	RB25#0	22.22	2.66	24.88	0.308	2.00	Pass
			RB1#0	21.45	2.66	24.11	0.258	2.00	Pass
			RB1#13	21.35	2.66	24.01	0.252	2.00	Pass
			RB1#24	21.43	2.66	24.09	0.256	2.00	Pass
			RB12#0	21.13	2.66	23.79	0.239	2.00	Pass
			RB12#6	21.11	2.66	23.77	0.238	2.00	Pass
	MCH	QPSK	RB12#13	21.21	2.66	23.87	0.244	2.00	Pass
			RB25#0	21.52	2.66	24.18	0.262	2.00	Pass
			RB1#0	23.28	2.66	25.94	0.393	2.00	Pass
			RB1#13	23.29	2.66	25.95	0.394	2.00	Pass
			RB1#24	23.30	2.66	25.96	0.394	2.00	Pass
			RB12#0	22.32	2.66	24.98	0.315	2.00	Pass
		16-QAM	RB12#6	22.32	2.66	24.98	0.315	2.00	Pass
			RB12#13	22.35	2.66	25.01	0.317	2.00	Pass
			RB25#0	22.35	2.66	25.01	0.317	2.00	Pass
			RB1#0	22.09	2.66	24.75	0.299	2.00	Pass
			RB1#13	22.06	2.66	24.72	0.296	2.00	Pass
			RB1#24	22.04	2.66	24.70	0.295	2.00	Pass
	HCH	QPSK	RB12#0	21.31	2.66	23.97	0.249	2.00	Pass
			RB12#6	21.24	2.66	23.90	0.245	2.00	Pass
			RB12#13	21.34	2.66	24.00	0.251	2.00	Pass
			RB25#0	21.49	2.66	24.15	0.260	2.00	Pass
			RB1#0	23.24	2.66	25.90	0.389	2.00	Pass
			RB1#13	23.27	2.66	25.93	0.392	2.00	Pass
		16-QAM	RB1#24	23.28	2.66	25.94	0.393	2.00	Pass
			RB12#0	22.38	2.66	25.04	0.319	2.00	Pass
	QPSK	RB12#6	22.29	2.66	24.95	0.313	2.00	Pass	
		RB12#13	22.29	2.66	24.95	0.313	2.00	Pass	
	16-QAM	RB25#0	22.35	2.66	25.01	0.317	2.00	Pass	
		RB1#0	22.72	2.66	25.38	0.345	2.00	Pass	
QPSK	RB1#13	22.65	2.66	25.31	0.340	2.00	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	
<b>LTE BAND38</b>										
10 MHz			RB1#24	22.76	2.66	25.42	0.348	2.00	Pass	
			RB12#0	21.44	2.66	24.10	0.257	2.00	Pass	
			RB12#6	21.57	2.66	24.23	0.265	2.00	Pass	
			RB12#13	21.49	2.66	24.15	0.260	2.00	Pass	
			RB25#0	21.63	2.66	24.29	0.269	2.00	Pass	
	LCH	QPSK	RB1#0	23.47	2.66	26.13	0.410	2.00	Pass	
			RB1#25	23.43	2.66	26.09	0.406	2.00	Pass	
			RB1#49	23.44	2.66	26.10	0.407	2.00	Pass	
			RB25#0	22.22	2.66	24.88	0.308	2.00	Pass	
			RB25#13	22.21	2.66	24.87	0.307	2.00	Pass	
			RB25#25	22.24	2.66	24.90	0.309	2.00	Pass	
			RB50#0	22.21	2.66	24.87	0.307	2.00	Pass	
		16-QAM	RB1#0	22.60	2.66	25.26	0.336	2.00	Pass	
			RB1#25	22.83	2.66	25.49	0.354	2.00	Pass	
			RB1#49	22.82	2.66	25.48	0.353	2.00	Pass	
			RB25#0	21.23	2.66	23.89	0.245	2.00	Pass	
			RB25#13	21.28	2.66	23.94	0.248	2.00	Pass	
			RB25#25	21.18	2.66	23.84	0.242	2.00	Pass	
		MCH	QPSK	RB1#0	23.56	2.66	26.22	0.419	2.00	Pass
				RB1#25	23.51	2.66	26.17	0.414	2.00	Pass
	RB1#49			23.51	2.66	26.17	0.414	2.00	Pass	
	RB25#0			22.26	2.66	24.92	0.310	2.00	Pass	
	RB25#13			22.24	2.66	24.90	0.309	2.00	Pass	
	RB25#25			22.39	2.66	25.05	0.320	2.00	Pass	
	RB50#0			22.22	2.66	24.88	0.308	2.00	Pass	
	16-QAM		RB1#0	22.32	2.66	24.98	0.315	2.00	Pass	
			RB1#25	22.35	2.66	25.01	0.317	2.00	Pass	
			RB1#49	22.42	2.66	25.08	0.322	2.00	Pass	
			RB25#0	21.46	2.66	24.12	0.258	2.00	Pass	
			RB25#13	21.49	2.66	24.15	0.260	2.00	Pass	
RB25#25			21.54	2.66	24.20	0.263	2.00	Pass		
RB50#0			21.45	2.66	24.11	0.258	2.00	Pass		
HCH			QPSK	RB1#0	23.47	2.66	26.13	0.410	2.00	Pass
	RB1#25	23.40		2.66	26.06	0.404	2.00	Pass		
	RB1#49	23.43		2.66	26.09	0.406	2.00	Pass		
	RB25#0	22.32		2.66	24.98	0.315	2.00	Pass		
	RB25#13	22.37		2.66	25.03	0.318	2.00	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		
<b>LTE BAND38</b>											
		16-QAM	RB25#25	22.31	2.66	24.97	0.314	2.00	Pass		
			RB50#0	22.40	2.66	25.06	0.321	2.00	Pass		
			RB1#0	23.36	2.66	26.02	0.400	2.00	Pass		
			RB1#25	23.11	2.66	25.77	0.378	2.00	Pass		
			RB1#49	23.27	2.66	25.93	0.392	2.00	Pass		
			RB25#0	21.62	2.66	24.28	0.268	2.00	Pass		
			RB25#13	21.69	2.66	24.35	0.272	2.00	Pass		
			RB25#25	21.63	2.66	24.29	0.269	2.00	Pass		
					RB50#0	21.44	2.66	24.10	0.257	2.00	Pass
		15 MHz	LCH	QPSK	RB1#0	23.45	2.66	26.11	0.408	2.00	Pass
					RB1#38	23.41	2.66	26.07	0.405	2.00	Pass
					RB1#74	23.44	2.66	26.10	0.407	2.00	Pass
					RB36#0	22.14	2.66	24.80	0.302	2.00	Pass
					RB36#19	22.25	2.66	24.91	0.310	2.00	Pass
					RB36#39	22.20	2.66	24.86	0.306	2.00	Pass
							RB75#0	22.09	2.66	24.75	0.299
				16-QAM	RB1#0	22.59	2.66	25.25	0.335	2.00	Pass
					RB1#38	22.75	2.66	25.41	0.348	2.00	Pass
					RB1#74	22.50	2.66	25.16	0.328	2.00	Pass
					RB36#0	21.37	2.66	24.03	0.253	2.00	Pass
					RB36#19	21.29	2.66	23.95	0.248	2.00	Pass
			RB36#39		21.31	2.66	23.97	0.249	2.00	Pass	
				RB75#0	21.20	2.66	23.86	0.243	2.00	Pass	
	MCH		QPSK	RB1#0	23.49	2.66	26.15	0.412	2.00	Pass	
					RB1#38	23.50	2.66	26.16	0.413	2.00	Pass
					RB1#74	23.56	2.66	26.22	0.419	2.00	Pass
					RB36#0	22.27	2.66	24.93	0.311	2.00	Pass
					RB36#19	22.34	2.66	25.00	0.316	2.00	Pass
					RB36#39	22.41	2.66	25.07	0.321	2.00	Pass
					RB75#0	22.34	2.66	25.00	0.316	2.00	Pass
				16-QAM	RB1#0	22.47	2.66	25.13	0.326	2.00	Pass
					RB1#38	22.48	2.66	25.14	0.327	2.00	Pass
					RB1#74	22.55	2.66	25.21	0.332	2.00	Pass
			RB36#0		21.27	2.66	23.93	0.247	2.00	Pass	
			RB36#19		21.28	2.66	23.94	0.248	2.00	Pass	
		RB36#39	21.41		2.66	24.07	0.255	2.00	Pass		
			RB75#0	21.49	2.66	24.15	0.260	2.00	Pass		
	HCH	QPSK	RB1#0	23.39	2.66	26.05	0.403	2.00	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
<b>LTE BAND38</b>									
			RB1#38	23.37	2.66	26.03	0.401	2.00	Pass
			RB1#74	23.39	2.66	26.05	0.403	2.00	Pass
			RB36#0	22.47	2.66	25.13	0.326	2.00	Pass
			RB36#19	22.34	2.66	25.00	0.316	2.00	Pass
			RB36#39	22.33	2.66	24.99	0.316	2.00	Pass
			RB75#0	22.39	2.66	25.05	0.320	2.00	Pass
		16-QAM	RB1#0	22.68	2.66	25.34	0.342	2.00	Pass
			RB1#38	22.55	2.66	25.21	0.332	2.00	Pass
			RB1#74	22.55	2.66	25.21	0.332	2.00	Pass
			RB36#0	21.55	2.66	24.21	0.264	2.00	Pass
			RB36#19	21.48	2.66	24.14	0.259	2.00	Pass
			RB36#39	21.58	2.66	24.24	0.265	2.00	Pass
			RB75#0	21.47	2.66	24.13	0.259	2.00	Pass
			20 MHz	LCH	QPSK	RB1#0	23.20	2.66	25.86
RB1#50	23.20	2.66				25.86	0.385	2.00	Pass
RB1#99	23.18	2.66				25.84	0.384	2.00	Pass
RB50#0	22.19	2.66				24.85	0.305	2.00	Pass
RB50#25	22.21	2.66				24.87	0.307	2.00	Pass
RB50#50	22.21	2.66				24.87	0.307	2.00	Pass
16-QAM	RB100#0	22.15			2.66	24.81	0.303	2.00	Pass
	RB1#0	22.31			2.66	24.97	0.314	2.00	Pass
	RB1#50	22.39			2.66	25.05	0.320	2.00	Pass
	RB1#99	22.32			2.66	24.98	0.315	2.00	Pass
	RB50#0	21.45			2.66	24.11	0.258	2.00	Pass
	RB50#25	21.33			2.66	23.99	0.251	2.00	Pass
	RB50#50	21.41			2.66	24.07	0.255	2.00	Pass
	RB100#0	21.24			2.66	23.90	0.245	2.00	Pass
MCH	QPSK	RB1#0	23.29	2.66	25.95	0.394	2.00	Pass	
		RB1#50	23.43	2.66	26.09	0.406	2.00	Pass	
		RB1#99	23.41	2.66	26.07	0.405	2.00	Pass	
		RB50#0	22.31	2.66	24.97	0.314	2.00	Pass	
		RB50#25	22.30	2.66	24.96	0.313	2.00	Pass	
		RB50#50	22.33	2.66	24.99	0.316	2.00	Pass	
	16-QAM	RB100#0	22.27	2.66	24.93	0.311	2.00	Pass	
		RB1#0	21.90	2.66	24.56	0.286	2.00	Pass	
		RB1#50	21.95	2.66	24.61	0.289	2.00	Pass	
		RB1#99	21.94	2.66	24.60	0.288	2.00	Pass	
		RB50#0	21.35	2.66	24.01	0.252	2.00	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		
<b>LTE BAND38</b>											
			RB50#25	21.40	2.66	24.06	0.255	2.00	Pass		
			RB50#50	21.33	2.66	23.99	0.251	2.00	Pass		
			RB100#0	21.46	2.66	24.12	0.258	2.00	Pass		
	HCH	QPSK	RB1#0	23.55	2.66	26.21	0.418	2.00	Pass		
			RB1#50	23.53	2.66	26.19	0.416	2.00	Pass		
			RB1#99	23.52	2.66	26.18	0.415	2.00	Pass		
			RB50#0	22.40	2.66	25.06	0.321	2.00	Pass		
			RB50#25	22.42	2.66	25.08	0.322	2.00	Pass		
			RB50#50	22.35	2.66	25.01	0.317	2.00	Pass		
			RB100#0	22.44	2.66	25.10	0.324	2.00	Pass		
			16-QAM	RB1#0	22.38	2.66	25.04	0.319	2.00	Pass	
				RB1#50	21.95	2.66	24.61	0.289	2.00	Pass	
		RB1#99		22.32	2.66	24.98	0.315	2.00	Pass		
		RB50#0		21.51	2.66	24.17	0.261	2.00	Pass		
		RB50#25		21.55	2.66	24.21	0.264	2.00	Pass		
		RB50#50		21.65	2.66	24.31	0.270	2.00	Pass		
					RB100#0	21.50	2.66	24.16	0.261	2.00	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
<b>LTE BAND41</b>									
5 MHz	LCH	QPSK	RB1#0	22.73	3.34	26.07	0.405	2.00	Pass
			RB1#13	22.82	3.34	26.16	0.413	2.00	Pass
			RB1#24	22.86	3.34	26.20	0.417	2.00	Pass
			RB12#0	21.79	3.34	25.13	0.326	2.00	Pass
			RB12#6	21.72	3.34	25.06	0.321	2.00	Pass
			RB12#13	21.65	3.34	24.99	0.316	2.00	Pass
			RB25#0	21.69	3.34	25.03	0.318	2.00	Pass
		16-QAM	RB1#0	21.26	3.34	24.60	0.288	2.00	Pass
			RB1#13	21.11	3.34	24.45	0.279	2.00	Pass
			RB1#24	21.19	3.34	24.53	0.284	2.00	Pass
			RB12#0	20.91	3.34	24.25	0.266	2.00	Pass
			RB12#6	20.88	3.34	24.22	0.264	2.00	Pass
			RB12#13	20.87	3.34	24.21	0.264	2.00	Pass
			RB25#0	20.96	3.34	24.30	0.269	2.00	Pass
	MCH	QPSK	RB1#0	23.24	3.34	26.58	0.455	2.00	Pass
			RB1#13	23.33	3.34	26.67	0.465	2.00	Pass
			RB1#24	23.24	3.34	26.58	0.455	2.00	Pass
			RB12#0	22.36	3.34	25.70	0.372	2.00	Pass
			RB12#6	22.30	3.34	25.64	0.366	2.00	Pass
			RB12#13	22.20	3.34	25.54	0.358	2.00	Pass
			RB25#0	22.20	3.34	25.54	0.358	2.00	Pass
		16-QAM	RB1#0	22.09	3.34	25.43	0.349	2.00	Pass
			RB1#13	22.11	3.34	25.45	0.351	2.00	Pass
			RB1#24	21.99	3.34	25.33	0.341	2.00	Pass
			RB12#0	21.31	3.34	24.65	0.292	2.00	Pass
			RB12#6	21.35	3.34	24.69	0.294	2.00	Pass
			RB12#13	21.19	3.34	24.53	0.284	2.00	Pass
			RB25#0	21.48	3.34	24.82	0.303	2.00	Pass
	HCH	QPSK	RB1#0	23.34	3.34	26.68	0.466	2.00	Pass
			RB1#13	23.33	3.34	26.67	0.465	2.00	Pass
			RB1#24	23.49	3.34	26.83	0.482	2.00	Pass
			RB12#0	22.44	3.34	25.78	0.378	2.00	Pass
			RB12#6	22.40	3.34	25.74	0.375	2.00	Pass
			RB12#13	22.43	3.34	25.77	0.378	2.00	Pass
			RB25#0	22.49	3.34	25.83	0.383	2.00	Pass
		16-QAM	RB1#0	22.79	3.34	26.13	0.410	2.00	Pass
RB1#13			22.84	3.34	26.18	0.415	2.00	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
<b>LTE BAND41</b>									
10 MHz			RB1#24	22.78	3.34	26.12	0.409	2.00	Pass
			RB12#0	21.53	3.34	24.87	0.307	2.00	Pass
			RB12#6	21.63	3.34	24.97	0.314	2.00	Pass
			RB12#13	21.58	3.34	24.92	0.310	2.00	Pass
			RB25#0	21.62	3.34	24.96	0.313	2.00	Pass
	LCH	QPSK	RB1#0	22.85	3.34	26.19	0.416	2.00	Pass
			RB1#25	22.93	3.34	26.27	0.424	2.00	Pass
			RB1#49	22.87	3.34	26.21	0.418	2.00	Pass
			RB25#0	21.58	3.34	24.92	0.310	2.00	Pass
			RB25#13	21.63	3.34	24.97	0.314	2.00	Pass
			RB25#25	21.65	3.34	24.99	0.316	2.00	Pass
			RB50#0	21.61	3.34	24.95	0.313	2.00	Pass
		16-QAM	RB1#0	21.98	3.34	25.32	0.340	2.00	Pass
			RB1#25	22.12	3.34	25.46	0.352	2.00	Pass
			RB1#49	22.12	3.34	25.46	0.352	2.00	Pass
			RB25#0	20.60	3.34	23.94	0.248	2.00	Pass
			RB25#13	20.62	3.34	23.96	0.249	2.00	Pass
			RB25#25	20.69	3.34	24.03	0.253	2.00	Pass
			RB50#0	20.75	3.34	24.09	0.256	2.00	Pass
	MCH	QPSK	RB1#0	23.44	3.34	26.78	0.476	2.00	Pass
			RB1#25	23.38	3.34	26.72	0.470	2.00	Pass
			RB1#49	23.50	3.34	26.84	0.483	2.00	Pass
			RB25#0	22.28	3.34	25.62	0.365	2.00	Pass
			RB25#13	22.25	3.34	25.59	0.362	2.00	Pass
			RB25#25	22.30	3.34	25.64	0.366	2.00	Pass
			RB50#0	22.28	3.34	25.62	0.365	2.00	Pass
		16-QAM	RB1#0	22.37	3.34	25.71	0.372	2.00	Pass
			RB1#25	22.41	3.34	25.75	0.376	2.00	Pass
			RB1#49	22.39	3.34	25.73	0.374	2.00	Pass
			RB25#0	21.47	3.34	24.81	0.303	2.00	Pass
RB25#13			21.47	3.34	24.81	0.303	2.00	Pass	
RB25#25			21.47	3.34	24.81	0.303	2.00	Pass	
RB50#0			21.40	3.34	24.74	0.298	2.00	Pass	
HCH	QPSK	RB1#0	23.43	3.34	26.77	0.475	2.00	Pass	
		RB1#25	23.44	3.34	26.78	0.476	2.00	Pass	
		RB1#49	23.44	3.34	26.78	0.476	2.00	Pass	
		RB25#0	22.38	3.34	25.72	0.373	2.00	Pass	
		RB25#13	22.46	3.34	25.80	0.380	2.00	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		
<b>LTE BAND41</b>											
		16-QAM	RB25#25	22.39	3.34	25.73	0.374	2.00	Pass		
			RB50#0	22.47	3.34	25.81	0.381	2.00	Pass		
			RB1#0	23.32	3.34	26.66	0.463	2.00	Pass		
			RB1#25	23.15	3.34	26.49	0.446	2.00	Pass		
			RB1#49	23.28	3.34	26.62	0.459	2.00	Pass		
			RB25#0	21.66	3.34	25.00	0.316	2.00	Pass		
			RB25#13	21.61	3.34	24.95	0.313	2.00	Pass		
			RB25#25	21.55	3.34	24.89	0.308	2.00	Pass		
					RB50#0	21.48	3.34	24.82	0.303	2.00	Pass
		15 MHz	LCH	QPSK	RB1#0	22.83	3.34	26.17	0.414	2.00	Pass
					RB1#38	22.96	3.34	26.30	0.427	2.00	Pass
					RB1#74	22.97	3.34	26.31	0.428	2.00	Pass
					RB36#0	21.65	3.34	24.99	0.316	2.00	Pass
					RB36#19	21.58	3.34	24.92	0.310	2.00	Pass
					RB36#39	21.70	3.34	25.04	0.319	2.00	Pass
							RB75#0	21.67	3.34	25.01	0.317
				16-QAM	RB1#0	21.89	3.34	25.23	0.333	2.00	Pass
					RB1#38	22.16	3.34	25.50	0.355	2.00	Pass
					RB1#74	21.95	3.34	25.29	0.338	2.00	Pass
					RB36#0	20.64	3.34	23.98	0.250	2.00	Pass
					RB36#19	20.71	3.34	24.05	0.254	2.00	Pass
			RB36#39		20.71	3.34	24.05	0.254	2.00	Pass	
				RB75#0	20.69	3.34	24.03	0.253	2.00	Pass	
	MCH		QPSK	RB1#0	23.43	3.34	26.77	0.475	2.00	Pass	
					RB1#38	23.53	3.34	26.87	0.486	2.00	Pass
					RB1#74	23.47	3.34	26.81	0.480	2.00	Pass
					RB36#0	22.28	3.34	25.62	0.365	2.00	Pass
					RB36#19	22.33	3.34	25.67	0.369	2.00	Pass
					RB36#39	22.37	3.34	25.71	0.372	2.00	Pass
					RB75#0	22.32	3.34	25.66	0.368	2.00	Pass
				16-QAM	RB1#0	22.30	3.34	25.64	0.366	2.00	Pass
					RB1#38	22.39	3.34	25.73	0.374	2.00	Pass
					RB1#74	22.39	3.34	25.73	0.374	2.00	Pass
			RB36#0		21.21	3.34	24.55	0.285	2.00	Pass	
			RB36#19		21.19	3.34	24.53	0.284	2.00	Pass	
		RB36#39	21.30		3.34	24.64	0.291	2.00	Pass		
			RB75#0	21.44	3.34	24.78	0.301	2.00	Pass		
	HCH	QPSK	RB1#0	23.33	3.34	26.67	0.465	2.00	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
<b>LTE BAND41</b>									
			RB1#38	23.36	3.34	26.70	0.468	2.00	Pass
			RB1#74	23.36	3.34	26.70	0.468	2.00	Pass
			RB36#0	22.40	3.34	25.74	0.375	2.00	Pass
			RB36#19	22.43	3.34	25.77	0.378	2.00	Pass
			RB36#39	22.41	3.34	25.75	0.376	2.00	Pass
			RB75#0	22.49	3.34	25.83	0.383	2.00	Pass
		16-QAM	RB1#0	22.89	3.34	26.23	0.420	2.00	Pass
			RB1#38	22.85	3.34	26.19	0.416	2.00	Pass
			RB1#74	22.86	3.34	26.20	0.417	2.00	Pass
			RB36#0	21.64	3.34	24.98	0.315	2.00	Pass
			RB36#19	21.59	3.34	24.93	0.311	2.00	Pass
			RB36#39	21.56	3.34	24.90	0.309	2.00	Pass
			RB75#0	21.62	3.34	24.96	0.313	2.00	Pass
			20 MHz	LCH	QPSK	RB1#0	22.62	3.34	25.96
RB1#50	22.52	3.34				25.86	0.385	2.00	Pass
RB1#99	22.60	3.34				25.94	0.393	2.00	Pass
RB50#0	21.73	3.34				25.07	0.321	2.00	Pass
RB50#25	21.76	3.34				25.10	0.324	2.00	Pass
RB50#50	21.82	3.34				25.16	0.328	2.00	Pass
16-QAM	RB100#0	21.67			3.34	25.01	0.317	2.00	Pass
	RB1#0	21.52			3.34	24.86	0.306	2.00	Pass
	RB1#50	21.47			3.34	24.81	0.303	2.00	Pass
	RB1#99	21.51			3.34	24.85	0.305	2.00	Pass
	RB50#0	20.89			3.34	24.23	0.265	2.00	Pass
	RB50#25	20.84			3.34	24.18	0.262	2.00	Pass
	RB50#50	20.82			3.34	24.16	0.261	2.00	Pass
	RB100#0	20.79			3.34	24.13	0.259	2.00	Pass
20 MHz	MCH	QPSK	RB1#0	23.22	3.34	26.56	0.453	2.00	Pass
			RB1#50	23.30	3.34	26.64	0.461	2.00	Pass
			RB1#99	23.36	3.34	26.70	0.468	2.00	Pass
			RB50#0	22.29	3.34	25.63	0.366	2.00	Pass
			RB50#25	22.36	3.34	25.70	0.372	2.00	Pass
			RB50#50	22.29	3.34	25.63	0.366	2.00	Pass
		16-QAM	RB100#0	22.34	3.34	25.68	0.370	2.00	Pass
			RB1#0	21.49	3.34	24.83	0.304	2.00	Pass
			RB1#50	21.62	3.34	24.96	0.313	2.00	Pass
			RB1#99	21.55	3.34	24.89	0.308	2.00	Pass
			RB50#0	21.44	3.34	24.78	0.301	2.00	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		
<b>LTE BAND41</b>											
			RB50#25	21.61	3.34	24.95	0.313	2.00	Pass		
			RB50#50	21.45	3.34	24.79	0.301	2.00	Pass		
			RB100#0	21.35	3.34	24.69	0.294	2.00	Pass		
	HCH	QPSK	RB1#0	23.47	3.34	26.81	0.480	2.00	Pass		
			RB1#50	23.48	3.34	26.82	0.481	2.00	Pass		
			RB1#99	23.53	3.34	26.87	0.486	2.00	Pass		
			RB50#0	22.25	3.34	25.59	0.362	2.00	Pass		
			RB50#25	22.43	3.34	25.77	0.378	2.00	Pass		
			RB50#50	22.33	3.34	25.67	0.369	2.00	Pass		
			RB100#0	22.28	3.34	25.62	0.365	2.00	Pass		
			16-QAM	RB1#0	22.69	3.34	26.03	0.401	2.00	Pass	
				RB1#50	22.09	3.34	25.43	0.349	2.00	Pass	
		RB1#99		22.59	3.34	25.93	0.392	2.00	Pass		
		RB50#0		21.52	3.34	24.86	0.306	2.00	Pass		
		RB50#25		21.50	3.34	24.84	0.305	2.00	Pass		
		RB50#50		21.59	3.34	24.93	0.311	2.00	Pass		
					RB100#0	21.50	3.34	24.84	0.305	2.00	Pass

## A.2 Peak to Average Ratio

Note 1: For average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB. For GSM, GPRS and EGPRS, there are peak power to demonstrate compliance, PAR measurements are not required.

Note 2: Test plots please refer to the document “Annex No.:BL-EC2350663-501 Data Part 1.pdf”.

### WCDMA Mode Test Data

Test Band	Test Channel	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot <sup>Note2</sup>	Verdict
Band 2	LCH	3.03	13	1.1	Pass
	MCH	3.02	13	1.2	Pass
	HCH	2.99	13	1.3	Pass
Band 4	LCH	3.08	13	2.1	Pass
	MCH	3.09	13	2.2	Pass
	HCH	3.09	13	2.3	Pass
Band 5	LCH	2.94	13	3.1	Pass
	MCH	2.90	13	3.2	Pass
	HCH	2.87	13	3.3	Pass

### LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot <sup>Note2</sup>	Verdict
LTE Band 2	20 MHz	LCH	QPSK	RB1#0	5.32	13	4.1	Pass
				RB100#0	5.67	13	4.2	Pass
			16-QAM	RB1#0	6.05	13	4.3	Pass
				RB100#0	6.43	13	4.4	Pass
		MCH	QPSK	RB1#0	5.14	13	4.5	Pass
				RB100#0	5.84	13	4.6	Pass
			16-QAM	RB1#0	6.15	13	4.7	Pass
				RB100#0	6.49	13	4.8	Pass
		HCH	QPSK	RB1#0	4.98	13	4.9	Pass
				RB100#0	5.72	13	4.10	Pass
			16-QAM	RB1#0	5.65	13	4.11	Pass
				RB100#0	6.49	13	4.12	Pass
LTE Band 4	20 MHz	LCH	QPSK	RB1#0	5.33	13	5.1	Pass
				RB100#0	5.72	13	5.2	Pass
			16-QAM	RB1#0	5.95	13	5.3	Pass
				RB100#0	6.46	13	5.4	Pass
		MCH	QPSK	RB1#0	5.41	13	5.5	Pass
				RB100#0	5.73	13	5.6	Pass
			16-QAM	RB1#0	6.28	13	5.7	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot <sup>Note2</sup>	Verdict
		HCH	QPSK	RB100#0	6.51	13	5.8	Pass
				RB1#0	5.57	13	5.9	Pass
			16-QAM	RB100#0	5.83	13	5.10	Pass
				RB1#0	6.58	13	5.11	Pass
				RB100#0	6.51	13	5.12	Pass
LTE Band 5	10 MHz	LCH	QPSK	RB1#0	5.23	13	6.1	Pass
				RB50#0	5.59	13	6.2	Pass
			16-QAM	RB1#0	6.17	13	6.3	Pass
				RB50#0	6.24	13	6.4	Pass
		MCH	QPSK	RB1#0	5.16	13	6.5	Pass
				RB50#0	5.45	13	6.6	Pass
			16-QAM	RB1#0	6.11	13	6.7	Pass
				RB50#0	6.13	13	6.8	Pass
		HCH	QPSK	RB1#0	4.93	13	6.9	Pass
				RB50#0	5.51	13	6.10	Pass
			16-QAM	RB1#0	5.60	13	6.11	Pass
				RB50#0	6.22	13	6.12	Pass
LTE Band 7	20 MHz	LCH	QPSK	RB1#0	5.50	13	7.1	Pass
				RB100#0	5.87	13	7.2	Pass
			16-QAM	RB1#0	6.17	13	7.3	Pass
				RB100#0	6.64	13	7.4	Pass
		MCH	QPSK	RB1#0	5.55	13	7.5	Pass
				RB100#0	5.92	13	7.6	Pass
			16-QAM	RB1#0	6.44	13	7.7	Pass
				RB100#0	6.61	13	7.8	Pass
		HCH	QPSK	RB1#0	5.33	13	7.9	Pass
				RB100#0	5.85	13	7.10	Pass
16-QAM	RB1#0		6.42	13	7.11	Pass		
	RB100#0		6.53	13	7.12	Pass		
LTE Band 38	20 MHz	LCH	QPSK	RB1#0	9.33	13	8.1	Pass
				RB100#0	9.47	13	8.2	Pass
			16-QAM	RB1#0	9.75	13	8.3	Pass
				RB100#0	10.12	13	8.4	Pass
		MCH	QPSK	RB1#0	9.09	13	8.5	Pass
				RB100#0	9.37	13	8.6	Pass
			16-QAM	RB1#0	9.70	13	8.7	Pass
				RB100#0	10.12	13	8.8	Pass
		HCH	QPSK	RB1#0	9.23	13	8.9	Pass
RB100#0	9.37			13	8.10	Pass		

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Refer to Plot <sup>Note2</sup>	Verdict
LTE Band 41	20 MHz		16-QAM	RB1#0	10.17	13	8.11	Pass
				RB100#0	10.08	13	8.12	Pass
		LCH	QPSK	RB1#0	9.23	13	9.1	Pass
				RB100#0	9.42	13	9.2	Pass
			16-QAM	RB1#0	9.89	13	9.3	Pass
				RB100#0	10.17	13	9.4	Pass
		MCH	QPSK	RB1#0	9.28	13	9.5	Pass
				RB100#0	9.37	13	9.6	Pass
			16-QAM	RB1#0	10.17	13	9.7	Pass
				RB100#0	10.08	13	9.8	Pass
		HCH	QPSK	RB1#0	9.05	13	9.9	Pass
				RB100#0	9.42	13	9.10	Pass
			16-QAM	RB1#0	9.61	13	9.11	Pass
				RB100#0	9.98	13	9.12	Pass

### A.3 Occupied Bandwidth

Note 1: All modes were tested, but only the typical data were reported in this report.

Note 2: Test plots please refer to the document “Annex No.:BL-EC2350663-501 Data Part 2.pdf”.

#### GSM and WCDMA Mode Test Data

Test Band	Test Channel	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
GSM 850	LCH	0.247	0.306	1.1
	MCH	0.246	0.304	1.2
	HCH	0.244	0.306	1.3
GSM 1900	LCH	0.244	0.293	2.1
	MCH	0.244	0.307	2.2
	HCH	0.245	0.299	2.3
GPRS 850	LCH	0.245	0.315	3.1
	MCH	0.243	0.309	3.2
	HCH	0.244	0.313	3.3
GPRS 1900	LCH	0.244	0.311	4.1
	MCH	0.247	0.315	4.2
	HCH	0.248	0.315	4.3
EGPRS 850	LCH	0.240	0.300	5.1
	MCH	0.239	0.309	5.2
	HCH	0.239	0.303	5.3
EGPRS 1900	LCH	0.241	0.304	6.1
	MCH	0.242	0.308	6.2
	HCH	0.242	0.306	6.3
WCDMA Band 2	LCH	4.136	4.686	7.1
	MCH	4.137	4.677	7.2
	HCH	4.122	4.678	7.3
WCDMA Band 4	LCH	4.136	4.679	8.1
	MCH	4.135	4.665	8.2
	HCH	4.137	4.672	8.3
WCDMA Band 5	LCH	4.145	4.692	9.1
	MCH	4.141	4.693	9.2
	HCH	4.143	4.694	9.3

## LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
Band 2	1.4 MHz	LCH	QPSK	RB6#0	1.089	1.262	10.1
			16-QAM	RB6#0	1.099	1.263	10.2
		MCH	QPSK	RB6#0	1.090	1.282	10.3
			16-QAM	RB6#0	1.097	1.262	10.4
		HCH	QPSK	RB6#0	1.087	1.268	10.5
			16-QAM	RB6#0	1.097	1.268	10.6
	3 MHz	LCH	QPSK	RB15#0	2.713	3.069	10.7
			16-QAM	RB15#0	2.719	3.054	10.8
		MCH	QPSK	RB15#0	2.710	3.080	10.9
			16-QAM	RB15#0	2.712	3.162	10.10
		HCH	QPSK	RB15#0	2.708	3.065	10.11
			16-QAM	RB15#0	2.711	3.141	10.12
	5 MHz	LCH	QPSK	RB25#0	4.522	5.260	10.13
			16-QAM	RB25#0	4.519	5.220	10.14
		MCH	QPSK	RB25#0	4.508	5.291	10.15
			16-QAM	RB25#0	4.517	5.402	10.16
		HCH	QPSK	RB25#0	4.499	5.396	10.17
			16-QAM	RB25#0	4.513	5.339	10.18
	10 MHz	LCH	QPSK	RB50#0	8.976	10.191	10.19
			16-QAM	RB50#0	8.975	10.094	10.20
		MCH	QPSK	RB50#0	8.974	10.040	10.21
			16-QAM	RB50#0	8.982	10.171	10.22
		HCH	QPSK	RB50#0	9.003	10.185	10.23
			16-QAM	RB50#0	8.998	10.375	10.24
	15 MHz	LCH	QPSK	RB75#0	13.494	15.417	10.25
			16-QAM	RB75#0	13.464	14.995	10.26
		MCH	QPSK	RB75#0	13.451	15.508	10.27
			16-QAM	RB75#0	13.487	15.305	10.28
		HCH	QPSK	RB75#0	13.506	15.857	10.29
			16-QAM	RB75#0	13.520	14.944	10.30
	20 MHz	LCH	QPSK	RB100#0	17.951	19.999	10.31
			16-QAM	RB100#0	17.962	20.305	10.32
		MCH	QPSK	RB100#0	17.993	20.186	10.33
			16-QAM	RB100#0	18.003	20.213	10.34
		HCH	QPSK	RB100#0	18.035	20.264	10.35
			16-QAM	RB100#0	18.023	20.102	10.36

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
Band 4	1.4 MHz	LCH	QPSK	RB6#0	1.091	1.258	11.1
			16-QAM	RB6#0	1.098	1.270	11.2
		MCH	QPSK	RB6#0	1.095	1.288	11.3
			16-QAM	RB6#0	1.098	1.265	11.4
		HCH	QPSK	RB6#0	1.093	1.284	11.5
			16-QAM	RB6#0	1.090	1.281	11.6
	3 MHz	LCH	QPSK	RB15#0	2.713	3.071	11.7
			16-QAM	RB15#0	2.713	3.047	11.8
		MCH	QPSK	RB15#0	2.706	3.059	11.9
			16-QAM	RB15#0	2.713	3.172	11.10
		HCH	QPSK	RB15#0	2.712	3.082	11.11
			16-QAM	RB15#0	2.717	3.169	11.12
	5 MHz	LCH	QPSK	RB25#0	4.527	5.277	11.13
			16-QAM	RB25#0	4.514	5.150	11.14
		MCH	QPSK	RB25#0	4.506	5.296	11.15
			16-QAM	RB25#0	4.525	5.401	11.16
		HCH	QPSK	RB25#0	4.510	5.392	11.17
			16-QAM	RB25#0	4.529	5.428	11.18
	10 MHz	LCH	QPSK	RB50#0	8.991	10.189	11.19
			16-QAM	RB50#0	8.976	10.099	11.20
		MCH	QPSK	RB50#0	8.964	10.028	11.21
			16-QAM	RB50#0	8.978	10.080	11.22
		HCH	QPSK	RB50#0	8.996	10.202	11.23
			16-QAM	RB50#0	9.000	10.646	11.24
	15 MHz	LCH	QPSK	RB75#0	13.491	15.282	11.25
			16-QAM	RB75#0	13.491	15.168	11.26
		MCH	QPSK	RB75#0	13.433	15.430	11.27
			16-QAM	RB75#0	13.483	15.255	11.28
		HCH	QPSK	RB75#0	13.502	15.950	11.29
			16-QAM	RB75#0	13.479	14.993	11.30
	20 MHz	LCH	QPSK	RB100#0	17.967	20.070	11.31
			16-QAM	RB100#0	17.991	20.306	11.32
		MCH	QPSK	RB100#0	17.949	20.160	11.33
			16-QAM	RB100#0	17.960	19.985	11.34
		HCH	QPSK	RB100#0	18.055	20.364	11.35
			16-QAM	RB100#0	17.963	20.227	11.36

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
Band 5	1.4 MHz	LCH	QPSK	RB6#0	1.089	1.256	12.1
			16-QAM	RB6#0	1.097	1.262	12.2
		MCH	QPSK	RB6#0	1.094	1.297	12.3
			16-QAM	RB6#0	1.095	1.271	12.4
		HCH	QPSK	RB6#0	1.095	1.279	12.5
			16-QAM	RB6#0	1.090	1.275	12.6
	3 MHz	LCH	QPSK	RB15#0	2.716	3.075	12.7
			16-QAM	RB15#0	2.715	3.058	12.8
		MCH	QPSK	RB15#0	2.712	3.068	12.9
			16-QAM	RB15#0	2.708	3.134	12.10
		HCH	QPSK	RB15#0	2.706	3.052	12.11
			16-QAM	RB15#0	2.715	3.163	12.12
	5 MHz	LCH	QPSK	RB25#0	4.521	5.277	12.13
			16-QAM	RB25#0	4.516	5.325	12.14
		MCH	QPSK	RB25#0	4.505	5.211	12.15
			16-QAM	RB25#0	4.518	5.436	12.16
		HCH	QPSK	RB25#0	4.505	5.448	12.17
			16-QAM	RB25#0	4.521	5.338	12.18
	10 MHz	LCH	QPSK	RB50#0	9.005	10.131	12.19
			16-QAM	RB50#0	8.994	10.170	12.20
		MCH	QPSK	RB50#0	8.944	9.953	12.21
			16-QAM	RB50#0	8.969	10.178	12.22
		HCH	QPSK	RB50#0	8.997	10.206	12.23
			16-QAM	RB50#0	8.991	10.426	12.24

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
Band 7	5 MHz	LCH	QPSK	RB25#0	4.506	5.249	13.1
			16-QAM	RB25#0	4.516	5.487	13.2
		MCH	QPSK	RB25#0	4.508	5.527	13.3
			16-QAM	RB25#0	4.521	5.427	13.4
		HCH	QPSK	RB25#0	4.530	5.290	13.5
			16-QAM	RB25#0	4.511	5.310	13.6
	10 MHz	LCH	QPSK	RB50#0	8.989	10.047	13.7
			16-QAM	RB50#0	8.968	10.082	13.8
		MCH	QPSK	RB50#0	8.993	10.059	13.9
			16-QAM	RB50#0	8.986	10.196	13.10
		HCH	QPSK	RB50#0	8.995	10.202	13.11
			16-QAM	RB50#0	8.986	10.509	13.12
	15 MHz	LCH	QPSK	RB75#0	13.484	15.415	13.13
			16-QAM	RB75#0	13.476	15.040	13.14
		MCH	QPSK	RB75#0	13.446	15.433	13.15
			16-QAM	RB75#0	13.464	15.102	13.16
		HCH	QPSK	RB75#0	13.478	15.584	13.17
			16-QAM	RB75#0	13.479	14.986	13.18
	20 MHz	LCH	QPSK	RB100#0	17.962	20.042	13.19
			16-QAM	RB100#0	18.004	20.073	13.20
		MCH	QPSK	RB100#0	17.968	20.257	13.21
			16-QAM	RB100#0	17.981	19.935	13.22
		HCH	QPSK	RB100#0	17.969	20.095	13.23
			16-QAM	RB100#0	17.957	20.135	13.24

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
Band 38	5 MHz	LCH	QPSK	RB25#0	4.490	4.953	14.1
			16-QAM	RB25#0	4.509	5.199	14.2
		MCH	QPSK	RB25#0	4.527	5.361	14.3
			16-QAM	RB25#0	4.524	5.344	14.4
		HCH	QPSK	RB25#0	4.505	5.210	14.5
			16-QAM	RB25#0	4.506	5.249	14.6
	10 MHz	LCH	QPSK	RB50#0	8.99	10.122	14.7
			16-QAM	RB50#0	8.991	10.167	14.8
		MCH	QPSK	RB50#0	8.989	10.484	14.9
			16-QAM	RB50#0	8.962	10.001	14.10
		HCH	QPSK	RB50#0	9.034	10.599	14.11
			16-QAM	RB50#0	9.013	10.359	14.12
	15 MHz	LCH	QPSK	RB75#0	13.507	15.096	14.13
			16-QAM	RB75#0	13.506	15.149	14.14
		MCH	QPSK	RB75#0	13.447	15.176	14.15
			16-QAM	RB75#0	13.557	15.866	14.16
		HCH	QPSK	RB75#0	13.492	15.988	14.17
			16-QAM	RB75#0	13.526	15.103	14.18
	20 MHz	LCH	QPSK	RB100#0	17.999	19.818	14.19
			16-QAM	RB100#0	17.987	19.974	14.20
		MCH	QPSK	RB100#0	17.964	20.143	14.21
			16-QAM	RB100#0	17.998	20.607	14.22
		HCH	QPSK	RB100#0	17.991	20.158	14.23
			16-QAM	RB100#0	17.974	20.196	14.24



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Refer to Plot <sup>Note2</sup>
Band 41	5 MHz	LCH	QPSK	RB25#0	4.525	5.371	15.1
			16-QAM	RB25#0	4.527	5.363	15.2
		MCH	QPSK	RB25#0	4.512	5.216	15.3
			16-QAM	RB25#0	4.505	5.245	15.4
		HCH	QPSK	RB25#0	4.490	4.961	15.5
			16-QAM	RB25#0	4.505	5.192	15.6
	10 MHz	LCH	QPSK	RB50#0	8.989	10.258	15.7
			16-QAM	RB50#0	8.993	10.150	15.8
		MCH	QPSK	RB50#0	9.002	10.289	15.9
			16-QAM	RB50#0	8.964	10.006	15.10
		HCH	QPSK	RB50#0	9.030	10.531	15.11
			16-QAM	RB50#0	9.006	10.318	15.12
	15 MHz	LCH	QPSK	RB75#0	13.426	15.108	15.13
			16-QAM	RB75#0	13.536	15.873	15.14
		MCH	QPSK	RB75#0	13.487	15.836	15.15
			16-QAM	RB75#0	13.548	15.050	15.16
		HCH	QPSK	RB75#0	13.520	15.279	15.17
			16-QAM	RB75#0	13.501	15.023	15.18
	20 MHz	LCH	QPSK	RB100#0	17.997	19.811	15.19
			16-QAM	RB100#0	17.94	19.747	15.20
		MCH	QPSK	RB100#0	17.977	20.146	15.21
			16-QAM	RB100#0	18.012	20.522	15.22
		HCH	QPSK	RB100#0	17.992	20.212	15.23
			16-QAM	RB100#0	17.973	20.164	15.24

## A.4 Frequency Stability

## GSM 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	21.05	±2060.5	14.14	±2091.5	16.50	±2122	Pass
	-20	19.63		21.66		17.50		
	-10	20.08		18.21		19.57		
	0	15.82		15.34		13.04		
	+10	15.85		19.11		16.30		
	+20	14.66		16.85		18.92		
	+25	22.24		26.38		-10.27		
	+30	16.92		14.53		21.41		
	+40	19.15		14.37		18.02		
	+50	21.44		21.18		16.18		
4.4	+25	19.98		18.82		15.01		
3.55	+25	15.53		16.14		23.34		

## GSM 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	13.92	±4625.5	12.62	±4700.0	15.56	±4774.5	Pass
	-20	13.46		9.46		13.46		
	-10	14.33		14.75		14.79		
	0	-12.75		20.82		18.31		
	+10	15.88		12.14		-10.85		
	+20	15.27		16.27		-30.87		
	+25	-14.92		-18.37		-20.37		
	+30	-6.01		13.88		17.01		
	+40	18.24		17.05		-25.34		
	+50	10.59		15.88		-30.51		
4.4	+25	16.01		-18.50		-22.05		
3.55	+25	10.56		9.10		11.66		

GPRS 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	4.16	±2060.5	9.43	±2091.5	8.91	±2122	Pass
	-20	7.65		10.14		9.23		
	-10	7.62		5.97		5.49		
	0	11.14		5.78		-4.71		
	+10	7.65		7.88		7.14		
	+20	9.56		8.75		13.14		
	+25	-5.59		-8.07		8.14		
	+30	12.40		9.56		13.01		
	+40	7.59		8.68		10.30		
	+50	5.33		10.82		14.37		
4.4	+25	7.04		12.37		8.20		
3.55	+25	7.39		12.56		11.49		

GPRS 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	-8.78	±4625.5	11.24	±4700.0	7.85	±4774.5	Pass
	-20	-10.78		-11.43		-6.13		
	-10	14.56		5.81		12.07		
	0	15.69		4.39		10.11		
	+10	15.08		-14.04		12.75		
	+20	14.17		-13.43		-5.55		
	+25	-16.05		11.43		-12.49		
	+30	-5.20		-11.17		6.42		
	+40	11.20		-9.01		-10.88		
	+50	7.43		9.62		3.26		
4.4	+25	-14.82		-22.70		-20.24		
3.55	+25	-9.91		-18.92		-17.72		

EGPRS 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	15.11	±2060.5	-11.33	±2091.5	-10.88	±2122	Pass
	-20	12.14		14.17		9.46		
	-10	11.59		16.08		15.05		
	0	18.21		14.46		-17.05		
	+10	11.14		-12.91		17.60		
	+20	14.95		17.66		-8.75		
	+25	19.89		-13.88		-12.88		
	+30	13.24		12.98		11.14		
	+40	-11.27		14.50		8.81		
	+50	13.79		17.40		12.82		
4.4	+25	-12.85		29.32		19.05		
3.55	+25	27.54		19.95		-13.92		

EGPRS 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	-18.05	±4625.5	-15.72	±4700.0	9.04	±4774.5	Pass
	-20	-10.72		19.24		11.98		
	-10	18.02		-17.47		-18.73		
	0	23.12		21.86		-23.02		
	+10	9.85		19.11		-26.38		
	+20	21.11		16.53		-18.21		
	+25	-18.31		-33.06		-17.40		
	+30	17.66		15.69		-21.21		
	+40	21.47		15.30		-17.60		
	+50	17.56		-14.17		-21.24		
4.4	+25	-13.98		-21.63		-16.01		
3.55	+25	-16.24		-18.08		-15.08		

WCDMA Band 2

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1852.4 MHz		MCH 1880 MHz		HCH 1907.6 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	-4.10	±4631	5.01	±4700	-3.08	±4769	Pass
	-20	3.28		0.28		1.07		
	-10	3.73		4.26		5.41		
	0	-8.28		-7.08		-1.02		
	+10	-0.04		6.24		-3.50		
	+20	-2.48		-6.21		-3.58		
	+25	-1.72		-3.61		10.50		
	+30	1.56		-5.14		2.37		
	+40	8.37		-5.25		-3.43		
	+50	-1.62		13.68		-1.97		
	+55	1.13	-1.03	-0.17				
4.4	+25	1.93		2.03		-1.54		
3.55	+25	-0.56		-1.53		1.67		

WCDMA Band 4

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1712.4 MHz		MCH 1732.4 MHz		HCH 1752.6 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	4.43	±4281	-0.94	±4331	1.11	±4381.5	Pass
	-20	-6.51		2.27		4.18		
	-10	-3.53		4.57		1.04		
	0	-1.31		-3.28		4.49		
	+10	-1.45		-1.19		3.28		
	+20	-8.35		-3.15		-1.36		
	+25	-7.42		-4.99		-0.44		
	+30	-4.06		-5.35		1.98		
	+40	-1.75		-2.83		5.72		
	+50	-1.92		-3.19		3.50		
	+55	-4.61	-4.28	3.01				
4.4	+25	5.38		11.14		9.71		
3.55	+25	7.59		1.76		-3.21		

## WCDMA Band B5

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 826.4 MHz		MCH 836.4 MHz		HCH 846.6 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	-0.22	±2066	1.32	±2091	-0.38	±2116.5	
	-20	-0.39		-0.99		0.05		
	-10	-0.14		-1.80		-2.55		
	0	0.64		-2.40		0.36		
	+10	-0.09		-3.10		1.20		
	+20	0.85		0.87		0.88		
	+25	3.76		-0.01		-0.24		
	+30	-0.97		3.02		0.91		
	+40	0.57		-4.98		0.43		
	+50	0.79		0.81		0.12		
	+55	-2.05	1.15	2.17				
4.4	+25	-7.42		1.47		-4.93		
3.55	+25	2.36		0.77		15.71		

### LTE Band 2 QPSK 10 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1855 MHz		MCH 1880 MHz		HCH 1905 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	-12.19	±4637.5	-6.64	±4700	-30.23	±4762.5	Pass
	-20	-14.78		-5.02		-6.54		
	-10	-10.60		7.32		-9.21		
	0	-6.82		-12.27		1.87		
	+10	3.38		1.47		-11.57		
	+20	-6.01		-3.98		-0.57		
	+25	-1.29		3.98		13.15		
	+30	8.03		-8.84		-11.67		
	+40	0.30		13.55		-12.65		
	+50	-0.21		19.56		20.59		
4.4	+25	36.61		2.25		5.18		
3.55	+25	-15.25		7.35		9.16		

### LTE Band 2 16QAM 10 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1855 MHz		MCH 1880 MHz		HCH 1905 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	-33.45	±4637.5	-31.16	±4700	-32.30	±4762.5	Pass
	-20	-25.82		-29.30		-33.00		
	-10	-31.19		-12.36		-32.59		
	0	-27.21		-26.51		-20.83		
	+10	-10.34		-9.50		-24.36		
	+20	-19.77		-14.53		-15.22		
	+25	-12.16		-5.42		-1.13		
	+30	-0.89		-14.88		-22.63		
	+40	-5.18		8.00		-25.46		
	+50	-11.14		14.09		12.22		
4.4	+25	35.35		17.54		-10.86		
3.55	+25	-22.86		-23.10		-17.25		
				2.99		2.80		

### LTE Band 4 QPSK 10 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1715 MHz		MCH 1732.5 MHz		HCH 1750 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	38.25	±4287.5	-4.62	±4331.25	11.40	±4375	Pass
	-20	8.48		6.92		4.16		
	-10	9.57		0.39		1.30		
	0	-0.33		0.66		-3.43		
	+10	-4.63		7.18		12.37		
	+20	2.73		4.15		8.45		
	+25	-8.88		-6.51		9.34		
	+30	5.82		-3.00		3.53		
	+40	-0.43		4.26		11.57		
	+50	12.12		18.31		4.08		
4.4	+25	22.69		11.13		5.24		
3.55	+25	7.20		-4.61		7.51		
				17.07		14.72		

### LTE Band 4 16QAM 10 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1715 MHz		MCH 1732.5 MHz		HCH 1750 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	44.93	±4287.5	-22.57	±4331.25	-4.49	±4375	Pass
	-20	-4.03		-1.34		-2.66		
	-10	9.18		-6.49		-5.04		
	0	-2.96		-2.46		-5.82		
	+10	-8.33		3.25		11.07		
	+20	-2.43		1.00		4.21		
	+25	-11.12		-9.33		8.48		
	+30	2.63		-5.35		4.59		
	+40	-1.89		1.87		9.93		
	+50	11.52		15.74		3.50		
4.4	+25	26.68		10.20		3.18		
3.55	+25	4.03		-19.08		-2.98		
				10.37		10.16		



### LTE Band 5 QPSK 10 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 829 MHz		MCH 836.5 MHz		HCH 844 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	23.57	±2072.5	0.21	±2091.25	-2.40	±2110	Pass
	-20	-5.14		1.02		3.25		
	-10	8.85		2.20		6.52		
	0	9.71		4.62		-0.16		
	+10	2.42		-0.40		8.67		
	+20	5.87		0.84		6.37		
	+25	4.58		1.16		0.66		
	+30	8.10		5.54		4.21		
	+40	3.46		1.43		3.03		
	+50	2.27		0.06		4.73		
4.4	+25	19.40		-3.29		-1.90		
3.55	+25	-2.88		2.89		2.73		

### LTE Band 5 16QAM 10 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 829 MHz		MCH 836.5 MHz		HCH 844 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	27.71	±2072.5	-7.27	±2091.25	-8.61	±2110	Pass
	-20	-8.10		-1.43		-0.10		
	-10	6.97		-0.79		4.38		
	0	8.23		2.62		-1.77		
	+10	3.23		-1.47		6.79		
	+20	6.21		-1.86		4.81		
	+25	5.22		0.63		0.84		
	+30	7.32		5.09		2.76		
	+40	3.62		0.39		1.59		
	+50	2.00		-0.30		4.89		
4.4	+25	20.70		-11.59		-8.90		
3.55	+25	-4.31		1.44		0.53		

LTE Band 7 QPSK 10 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 2505 MHz		MCH 2535 MHz		HCH 2565 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	20.48	±6262.5	-21.53	±6337.5	-24.03	±6412.5	Pass
	-20	-0.24		-29.25		-10.19		
	-10	-3.35		4.89		5.55		
	0	16.01		-8.60		-9.27		
	+10	6.52		-11.26		11.22		
	+20	7.74		6.29		-4.33		
	+25	23.59		-9.48		-5.66		
	+30	1.30		-17.94		9.46		
	+40	1.39		-0.60		1.33		
	+50	7.25		-11.82		6.15		
	+55	-13.89	-15.11	7.50				
4.4	+25	42.14		-37.79		-31.76		
3.55	+25	-22.02		-18.95		-1.65		

LTE Band 7 16-QAM 10 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 2505 MHz		MCH 2535 MHz		HCH 2565 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	-29.68	±6262.5	-41.04	±6337.5	-21.03	±6412.5	Pass
	-20	-36.52		-15.28		-31.80		
	-10	-28.87		-22.60		-13.58		
	0	-1.23		-25.68		-27.97		
	+10	-7.85		-25.85		-8.93		
	+20	-5.78		-3.98		-16.65		
	+25	11.76		-25.72		-19.15		
	+30	-9.87		-32.06		3.10		
	+40	-4.03		-11.89		-8.53		
	+50	-1.03		-29.31		-8.61		
	+55	-21.03	-25.12	4.21				
4.4	+25	11.01		-35.83		-38.18		
3.55	+25	-43.95		-38.34		-25.53		

LTE Band 38 QPSK 10 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 2575 MHz		MCH 2595 MHz		HCH 2615 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	40.27	±6437.5	-19.76	±6487.5	-0.33	±6537.5	Pass
	-20	24.42		27.45		21.34		
	-10	12.20		-3.82		-5.42		
	0	20.13		13.89		4.79		
	+10	-7.25		-2.15		8.24		
	+20	14.91		27.15		4.28		
	+25	12.92		-19.86		-9.83		
	+30	9.54		19.08		-1.60		
	+40	18.14		11.53		10.93		
	+50	-4.85		6.85		5.94		
	+55	2.66	-0.83	11.14				
4.4	+25	38.72		24.19		11.77		
3.55	+25	8.35		-1.10		-20.87		

LTE Band 38 16QAM10 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 2575 MHz		MCH 2595 MHz		HCH 2615 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	23.60	±6437.5	-21.34	±6487.5	7.42	±6537.5	Pass
	-20	34.40		36.72		32.99		
	-10	23.33		8.94		7.48		
	0	31.64		23.37		14.38		
	+10	2.37		4.11		13.88		
	+20	24.65		29.54		11.66		
	+25	23.52		-14.03		-2.92		
	+30	13.29		25.33		2.96		
	+40	26.69		16.98		14.10		
	+50	1.19		12.23		11.00		
	+55	11.43	2.53	11.76				
4.4	+25	46.19		21.09		10.71		
3.55	+25	-8.60		-27.78		-40.78		

LTE Band 41 QPSK 10 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 2540 MHz		MCH 2595 MHz		HCH 2650 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	-15.13	±6350	45.00	±6487.5	23.53	±6625	Pass
	-20	-17.17		-18.45		8.53		
	-10	-7.31		-40.91		3.95		
	0	-5.04		-3.26		0.31		
	+10	-24.83		-12.13		1.65		
	+20	-23.73		-7.91		5.78		
	+25	-4.84		-18.97		-5.88		
	+30	-1.33		-27.01		2.30		
	+40	-13.12		-2.13		-9.06		
	+50	-18.35		-3.83		18.58		
4.4	+25	22.12		-12.43		9.89		
3.55	+25	-20.37		-31.44		-0.51		

LTE Band 41 16QAM10 MHz

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 2540 MHz		MCH 2595 MHz		HCH 2650 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
3.8	-30	-42.00	±6350	-12.44	±6487.5	14.65	±6625	Pass
	-20	-45.95		-44.76		-13.39		
	-10	-24.39		-55.20		-12.70		
	0	-22.32		-17.94		-14.81		
	+10	-37.67		-21.59		-6.85		
	+20	-32.79		-16.45		-3.19		
	+25	-15.06		-27.45		-14.83		
	+30	-10.34		-22.99		-3.26		
	+40	-21.47		-9.01		-17.05		
	+50	-23.53		-9.70		8.21		
4.4	+25	41.09		23.12		0.67		
3.55	+25	-42.72		-8.98		-30.93		

## A.5 Spurious Emission at Antenna Terminals

Note 1: GSM and EGPRS modes have been verified, and only the worst data with different bandwidth for LTE 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.:BL-EC2350663-501 Data Part 3.pdf".

### GSM and WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot <sup>Note3</sup>	Verdict
GSM 850	LCH	1.1	Pass
	MCH	1.2	Pass
	HCH	1.3	Pass
GSM 1900	LCH	2.1	Pass
	MCH	2.2	Pass
	HCH	2.3	Pass
GPRS 850	LCH	3.1	Pass
	MCH	3.2	Pass
	HCH	3.3	Pass
GPRS 1900	LCH	4.1	Pass
	MCH	4.2	Pass
	HCH	4.3	Pass
EGPRS 850	LCH	5.1	Pass
	MCH	5.2	Pass
	HCH	5.3	Pass
EGPRS 1900	LCH	6.1	Pass
	MCH	6.2	Pass
	HCH	6.3	Pass
WCDMA Band 2	LCH	7.1	Pass
	MCH	7.2	Pass
	HCH	7.3	Pass
WCDMA Band 4	LCH	8.1	Pass
	MCH	8.2	Pass
	HCH	8.3	Pass
WCDMA Band 5	LCH	9.1	Pass
	MCH	9.2	Pass
	HCH	9.3	Pass

### LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
Band 2	1.4 MHz	LCH	QPSK	RB1#0	10.1	Pass
			16-QAM	RB1#0	10.2	Pass
		MCH	QPSK	RB1#0	10.3	Pass
			16-QAM	RB1#0	10.4	Pass
		HCH	QPSK	RB1#0	10.5	Pass
			16-QAM	RB1#0	10.6	Pass
	3 MHz	LCH	QPSK	RB1#0	10.7	Pass
			16-QAM	RB1#0	10.8	Pass
		MCH	QPSK	RB1#0	10.9	Pass
			16-QAM	RB1#0	10.10	Pass
		HCH	QPSK	RB1#0	10.11	Pass
			16-QAM	RB1#0	10.12	Pass
	5 MHz	LCH	QPSK	RB1#0	10.13	Pass
			16-QAM	RB1#0	10.14	Pass
		MCH	QPSK	RB1#0	10.15	Pass
			16-QAM	RB1#0	10.16	Pass
		HCH	QPSK	RB1#0	10.17	Pass
			16-QAM	RB1#0	10.18	Pass
	10 MHz	LCH	QPSK	RB1#0	10.19	Pass
			16-QAM	RB1#0	10.20	Pass
		MCH	QPSK	RB1#0	10.21	Pass
			16-QAM	RB1#0	10.22	Pass
		HCH	QPSK	RB1#0	10.23	Pass
			16-QAM	RB1#0	10.24	Pass
	15 MHz	LCH	QPSK	RB1#0	10.25	Pass
			16-QAM	RB1#0	10.26	Pass
		MCH	QPSK	RB1#0	10.27	Pass
			16-QAM	RB1#0	10.28	Pass
		HCH	QPSK	RB1#0	10.29	Pass
			16-QAM	RB1#0	10.30	Pass
	20 MHz	LCH	QPSK	RB1#0	10.31	Pass
			16-QAM	RB1#0	10.32	Pass
		MCH	QPSK	RB1#0	10.33	Pass
			16-QAM	RB1#0	10.34	Pass
		HCH	QPSK	RB1#0	10.35	Pass
			16-QAM	RB1#0	10.36	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
Band 4	1.4 MHz	LCH	QPSK	RB1#0	11.1	Pass
			16-QAM	RB1#0	11.2	Pass
		MCH	QPSK	RB1#0	11.3	Pass
			16-QAM	RB1#0	11.4	Pass
		HCH	QPSK	RB1#0	11.5	Pass
			16-QAM	RB1#0	11.6	Pass
	3 MHz	LCH	QPSK	RB1#0	11.7	Pass
			16-QAM	RB1#0	11.8	Pass
		MCH	QPSK	RB1#0	11.9	Pass
			16-QAM	RB1#0	11.10	Pass
		HCH	QPSK	RB1#0	11.11	Pass
			16-QAM	RB1#0	11.12	Pass
	5 MHz	LCH	QPSK	RB1#0	11.13	Pass
			16-QAM	RB1#0	11.14	Pass
		MCH	QPSK	RB1#0	11.15	Pass
			16-QAM	RB1#0	11.16	Pass
		HCH	QPSK	RB1#0	11.17	Pass
			16-QAM	RB1#0	11.18	Pass
	10 MHz	LCH	QPSK	RB1#0	11.19	Pass
			16-QAM	RB1#0	11.20	Pass
		MCH	QPSK	RB1#0	11.21	Pass
			16-QAM	RB1#0	11.22	Pass
		HCH	QPSK	RB1#0	11.23	Pass
			16-QAM	RB1#0	11.24	Pass
	15 MHz	LCH	QPSK	RB1#0	11.25	Pass
			16-QAM	RB1#0	11.26	Pass
		MCH	QPSK	RB1#0	11.27	Pass
			16-QAM	RB1#0	11.28	Pass
		HCH	QPSK	RB1#0	11.29	Pass
			16-QAM	RB1#0	11.30	Pass
	20 MHz	LCH	QPSK	RB1#0	11.31	Pass
			16-QAM	RB1#0	11.32	Pass
		MCH	QPSK	RB1#0	11.33	Pass
			16-QAM	RB1#0	11.34	Pass
		HCH	QPSK	RB1#0	11.35	Pass
			16-QAM	RB1#0	11.36	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
Band 5	1.4 MHz	LCH	QPSK	RB1#0	12.1	Pass
			16-QAM	RB1#0	12.2	Pass
		MCH	QPSK	RB1#0	12.3	Pass
			16-QAM	RB1#0	12.4	Pass
		HCH	QPSK	RB1#0	12.5	Pass
			16-QAM	RB1#0	12.6	Pass
	3 MHz	LCH	QPSK	RB1#0	12.7	Pass
			16-QAM	RB1#0	12.8	Pass
		MCH	QPSK	RB1#0	12.9	Pass
			16-QAM	RB1#0	12.10	Pass
		HCH	QPSK	RB1#0	12.11	Pass
			16-QAM	RB1#0	12.12	Pass
	5 MHz	LCH	QPSK	RB1#0	12.13	Pass
			16-QAM	RB1#0	12.14	Pass
		MCH	QPSK	RB1#0	12.15	Pass
			16-QAM	RB1#0	12.16	Pass
		HCH	QPSK	RB1#0	12.17	Pass
			16-QAM	RB1#0	12.18	Pass
	10 MHz	LCH	QPSK	RB1#0	12.19	Pass
			16-QAM	RB1#0	12.20	Pass
		MCH	QPSK	RB1#0	12.21	Pass
			16-QAM	RB1#0	12.22	Pass
		HCH	QPSK	RB1#0	12.23	Pass
			16-QAM	RB1#0	12.24	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
Band 7	5 MHz	LCH	QPSK	RB1#0	13.1	Pass
			16-QAM	RB1#0	13.2	Pass
		MCH	QPSK	RB1#0	13.3	Pass
			16-QAM	RB1#0	13.4	Pass
		HCH	QPSK	RB1#0	13.5	Pass
			16-QAM	RB1#0	13.6	Pass
	10 MHz	LCH	QPSK	RB1#0	13.7	Pass
			16-QAM	RB1#0	13.8	Pass
		MCH	QPSK	RB1#0	13.9	Pass
			16-QAM	RB1#0	13.10	Pass
		HCH	QPSK	RB1#0	13.11	Pass
			16-QAM	RB1#0	13.12	Pass
	15 MHz	LCH	QPSK	RB1#0	13.13	Pass
			16-QAM	RB1#0	13.14	Pass
		MCH	QPSK	RB1#0	13.15	Pass
			16-QAM	RB1#0	13.16	Pass
		HCH	QPSK	RB1#0	13.17	Pass
			16-QAM	RB1#0	13.18	Pass
	20 MHz	LCH	QPSK	RB1#0	13.19	Pass
			16-QAM	RB1#0	13.20	Pass
		MCH	QPSK	RB1#0	13.21	Pass
			16-QAM	RB1#0	13.22	Pass
		HCH	QPSK	RB1#0	13.23	Pass
			16-QAM	RB1#0	13.24	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
Band 38	5 MHz	LCH	QPSK	RB1#0	14.1	Pass
			16-QAM	RB1#0	14.2	Pass
		MCH	QPSK	RB1#0	14.3	Pass
			16-QAM	RB1#0	14.4	Pass
		HCH	QPSK	RB1#0	14.5	Pass
			16-QAM	RB1#0	14.6	Pass
	10 MHz	LCH	QPSK	RB1#0	14.7	Pass
			16-QAM	RB1#0	14.8	Pass
		MCH	QPSK	RB1#0	14.9	Pass
			16-QAM	RB1#0	14.10	Pass
		HCH	QPSK	RB1#0	14.11	Pass
			16-QAM	RB1#0	14.12	Pass
	15 MHz	LCH	QPSK	RB1#0	14.13	Pass
			16-QAM	RB1#0	14.14	Pass
		MCH	QPSK	RB1#0	14.15	Pass
			16-QAM	RB1#0	14.16	Pass
		HCH	QPSK	RB1#0	14.17	Pass
			16-QAM	RB1#0	14.18	Pass
	20 MHz	LCH	QPSK	RB1#0	14.19	Pass
			16-QAM	RB1#0	14.20	Pass
		MCH	QPSK	RB1#0	14.21	Pass
			16-QAM	RB1#0	14.22	Pass
		HCH	QPSK	RB1#0	14.23	Pass
			16-QAM	RB1#0	14.24	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
Band 41	5 MHz	LCH	QPSK	RB1#0	15.1	Pass
			16-QAM	RB1#0	15.2	Pass
		MCH	QPSK	RB1#0	15.3	Pass
			16-QAM	RB1#0	15.4	Pass
		HCH	QPSK	RB1#0	15.5	Pass
			16-QAM	RB1#0	15.6	Pass
	10 MHz	LCH	QPSK	RB1#0	15.7	Pass
			16-QAM	RB1#0	15.8	Pass
		MCH	QPSK	RB1#0	15.9	Pass
			16-QAM	RB1#0	15.10	Pass
		HCH	QPSK	RB1#0	15.11	Pass
			16-QAM	RB1#0	15.12	Pass
	15 MHz	LCH	QPSK	RB1#0	15.13	Pass
			16-QAM	RB1#0	15.14	Pass
		MCH	QPSK	RB1#0	15.15	Pass
			16-QAM	RB1#0	15.16	Pass
		HCH	QPSK	RB1#0	15.17	Pass
			16-QAM	RB1#0	15.18	Pass
	20 MHz	LCH	QPSK	RB1#0	15.19	Pass
			16-QAM	RB1#0	15.20	Pass
		MCH	QPSK	RB1#0	15.21	Pass
			16-QAM	RB1#0	15.22	Pass
		HCH	QPSK	RB1#0	15.23	Pass
			16-QAM	RB1#0	15.24	Pass

## A.6 Band Edge

Note 1: Test plots please refer to the document “Annex No.:BL-EC2350663-501 Data Part 4.pdf”.

### GSM and WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot <sup>Note1</sup>	Verdict
GSM 850	LCH	1.1	Pass
	HCH	1.2	Pass
GSM 1900	LCH	2.1	Pass
	HCH	2.2	Pass
GPRS 850	LCH	3.1	Pass
	HCH	3.2	Pass
GPRS 1900	LCH	4.1	Pass
	HCH	4.2	Pass
EGPRS 850	LCH	5.1	Pass
	HCH	5.2	Pass
EGPRS 1900	LCH	6.1	Pass
	HCH	6.2	Pass
WCDMA Band 2	LCH	7.1	Pass
	HCH	7.2	Pass
WCDMA Band 4	LCH	8.1	Pass
	HCH	8.2	Pass
WCDMA Band 5	LCH	9.1	Pass
	HCH	9.2	Pass

### LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
Band 2	1.4 MHz	LCH	QPSK	RB1#0	10.1	Pass
				RB6#0	10.2	Pass
			16-QAM	RB1#0	10.3	Pass
				RB6#0	10.4	Pass
		HCH	QPSK	RB1#5	10.5	Pass
				RB6#0	10.6	Pass
			16-QAM	RB1#5	10.7	Pass
				RB6#0	10.8	Pass
	3 MHz	LCH	QPSK	RB1#0	10.9	Pass
				RB15#0	10.10	Pass
			16-QAM	RB1#0	10.11	Pass
				RB15#0	10.12	Pass
		HCH	QPSK	RB1#14	10.13	Pass
				RB15#0	10.14	Pass
			16-QAM	RB1#14	10.15	Pass
				RB15#0	10.16	Pass
	5 MHz	LCH	QPSK	RB1#0	10.17	Pass
				RB25#0	10.18	Pass
			16-QAM	RB1#0	10.19	Pass
				RB25#0	10.20	Pass
		HCH	QPSK	RB1#24	10.21	Pass
				RB25#0	10.22	Pass
			16-QAM	RB1#24	10.23	Pass
				RB25#0	10.24	Pass
	10 MHz	LCH	QPSK	RB1#0	10.25	Pass
				RB50#0	10.26	Pass
			16-QAM	RB1#0	10.27	Pass
				RB50#0	10.28	Pass
		HCH	QPSK	RB1#49	10.29	Pass
				RB50#0	10.30	Pass
			16-QAM	RB1#49	10.31	Pass
				RB50#0	10.32	Pass
	15 MHz	LCH	QPSK	RB1#0	10.33	Pass
				RB75#0	10.34	Pass
			16-QAM	RB1#0	10.35	Pass
				RB75#0	10.36	Pass
		HCH	QPSK	RB1#74	10.37	Pass
				RB75#0	10.38	Pass
			16-QAM	RB1#74	10.39	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
				RB75#0	10.40	Pass
	20 MHz	LCH	QPSK	RB1#0	10.41	Pass
RB100#0				10.42	Pass	
16-QAM			RB1#0	10.43	Pass	
			RB100#0	10.44	Pass	
HCH		QPSK	RB1#99	10.45	Pass	
			RB100#0	10.46	Pass	
		16-QAM	RB1#99	10.47	Pass	
			RB100#0	10.48	Pass	

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
Band 4	1.4 MHz	LCH	QPSK	RB1#0	11.1	Pass
				RB6#0	11.2	Pass
			16-QAM	RB1#0	11.3	Pass
				RB6#0	11.4	Pass
		HCH	QPSK	RB1#5	11.5	Pass
				RB6#0	11.6	Pass
			16-QAM	RB1#5	11.7	Pass
				RB6#0	11.8	Pass
	3 MHz	LCH	QPSK	RB1#0	11.9	Pass
				RB15#0	11.10	Pass
			16-QAM	RB1#0	11.11	Pass
				RB15#0	11.12	Pass
		HCH	QPSK	RB1#14	11.13	Pass
				RB15#0	11.14	Pass
			16-QAM	RB1#14	11.15	Pass
				RB15#0	11.16	Pass
	5 MHz	LCH	QPSK	RB1#0	11.17	Pass
				RB25#0	11.18	Pass
			16-QAM	RB1#0	11.19	Pass
				RB25#0	11.20	Pass
		HCH	QPSK	RB1#24	11.21	Pass
				RB25#0	11.22	Pass
			16-QAM	RB1#24	11.23	Pass
				RB25#0	11.24	Pass
	10 MHz	LCH	QPSK	RB1#0	11.25	Pass
				RB50#0	11.26	Pass
			16-QAM	RB1#0	11.27	Pass
				RB50#0	11.28	Pass
		HCH	QPSK	RB1#49	11.29	Pass
				RB50#0	11.30	Pass
			16-QAM	RB1#49	11.31	Pass
				RB50#0	11.32	Pass
	15 MHz	LCH	QPSK	RB1#0	11.33	Pass
				RB75#0	11.34	Pass
			16-QAM	RB1#0	11.35	Pass
				RB75#0	11.36	Pass
		HCH	QPSK	RB1#74	11.37	Pass
				RB75#0	11.38	Pass
			16-QAM	RB1#74	11.39	Pass
				RB75#0	11.40	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
	20 MHz	LCH	QPSK	RB1#0	11.41	Pass
				RB100#0	11.42	Pass
			16-QAM	RB1#0	11.43	Pass
				RB100#0	11.44	Pass
		HCH	QPSK	RB1#99	11.45	Pass
				RB100#0	11.46	Pass
			16-QAM	RB1#99	11.47	Pass
				RB100#0	11.48	Pass



Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
Band 5	1.4 MHz	LCH	QPSK	RB1#0	12.1	Pass
				RB6#0	12.2	Pass
			16-QAM	RB1#0	12.3	Pass
				RB6#0	12.4	Pass
		HCH	QPSK	RB1#5	12.5	Pass
				RB6#0	12.6	Pass
			16-QAM	RB1#5	12.7	Pass
				RB6#0	12.8	Pass
	3 MHz	LCH	QPSK	RB1#0	12.9	Pass
				RB15#0	12.10	Pass
			16-QAM	RB1#0	12.11	Pass
				RB15#0	12.12	Pass
		HCH	QPSK	RB1#14	12.13	Pass
				RB15#0	12.14	Pass
			16-QAM	RB1#14	12.15	Pass
				RB15#0	12.16	Pass
	5 MHz	LCH	QPSK	RB1#0	12.17	Pass
				RB25#0	12.18	Pass
			16-QAM	RB1#0	12.19	Pass
				RB25#0	12.20	Pass
		HCH	QPSK	RB1#24	12.21	Pass
				RB25#0	12.22	Pass
			16-QAM	RB1#24	12.23	Pass
				RB25#0	12.24	Pass
	10 MHz	LCH	QPSK	RB1#0	12.25	Pass
				RB50#0	12.26	Pass
			16-QAM	RB1#0	12.27	Pass
				RB50#0	12.28	Pass
		HCH	QPSK	RB1#49	12.29	Pass
				RB50#0	12.30	Pass
			16-QAM	RB1#49	12.31	Pass
				RB50#0	12.32	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
Band 7	5 MHz	LCH	QPSK	RB1#0	13.1	Pass
				RB25#0	13.2	Pass
			16-QAM	RB1#0	13.3	Pass
				RB25#0	13.4	Pass
		HCH	QPSK	RB1#24	13.5	Pass
				RB25#0	13.6	Pass
			16-QAM	RB1#24	13.7	Pass
				RB25#0	13.8	Pass
	10 MHz	LCH	QPSK	RB1#0	13.9	Pass
				RB50#0	13.10	Pass
			16-QAM	RB1#0	13.11	Pass
				RB50#0	13.12	Pass
		HCH	QPSK	RB1#49	13.13	Pass
				RB50#0	13.14	Pass
			16-QAM	RB1#49	13.15	Pass
				RB50#0	13.16	Pass
	15 MHz	LCH	QPSK	RB1#0	13.17	Pass
				RB75#0	13.18	Pass
			16-QAM	RB1#0	13.19	Pass
				RB75#0	13.20	Pass
		HCH	QPSK	RB1#74	13.21	Pass
				RB75#0	13.22	Pass
			16-QAM	RB1#74	13.23	Pass
				RB75#0	13.24	Pass
	20 MHz	LCH	QPSK	RB1#0	13.25	Pass
				RB100#0	13.26	Pass
			16-QAM	RB1#0	13.27	Pass
				RB100#0	13.28	Pass
		HCH	QPSK	RB1#99	13.29	Pass
				RB100#0	13.30	Pass
			16-QAM	RB1#99	13.31	Pass
				RB100#0	13.32	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
Band 38	5 MHz	LCH	QPSK	RB1#0	14.1	Pass
				RB25#0	14.2	Pass
			16-QAM	RB1#0	14.3	Pass
				RB25#0	14.4	Pass
		HCH	QPSK	RB1#24	14.5	Pass
				RB25#0	14.6	Pass
			16-QAM	RB1#24	14.7	Pass
				RB25#0	14.8	Pass
	10 MHz	LCH	QPSK	RB1#0	14.9	Pass
				RB50#0	14.10	Pass
			16-QAM	RB1#0	14.11	Pass
				RB50#0	14.12	Pass
		HCH	QPSK	RB1#49	14.13	Pass
				RB50#0	14.14	Pass
			16-QAM	RB1#49	14.15	Pass
				RB50#0	14.16	Pass
	15 MHz	LCH	QPSK	RB1#0	14.17	Pass
				RB75#0	14.18	Pass
			16-QAM	RB1#0	14.19	Pass
				RB75#0	14.20	Pass
		HCH	QPSK	RB1#74	14.21	Pass
				RB75#0	14.22	Pass
			16-QAM	RB1#74	14.23	Pass
				RB75#0	14.24	Pass
20 MHz	LCH	QPSK	RB1#0	14.25	Pass	
			RB100#0	14.26	Pass	
		16-QAM	RB1#0	14.27	Pass	
			RB100#0	14.28	Pass	
	HCH	QPSK	RB1#99	14.29	Pass	
			RB100#0	14.30	Pass	
		16-QAM	RB1#99	14.31	Pass	
			RB100#0	14.32	Pass	

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note1</sup>	Verdict
Band 41	5 MHz	LCH	QPSK	RB1#0	15.1	Pass
				RB25#0	15.2	Pass
			16-QAM	RB1#0	15.3	Pass
				RB25#0	15.4	Pass
		HCH	QPSK	RB1#24	15.5	Pass
				RB25#0	15.6	Pass
			16-QAM	RB1#24	15.7	Pass
				RB25#0	15.8	Pass
	10 MHz	LCH	QPSK	RB1#0	15.9	Pass
				RB50#0	15.10	Pass
			16-QAM	RB1#0	15.11	Pass
				RB50#0	15.12	Pass
		HCH	QPSK	RB1#49	15.13	Pass
				RB50#0	15.14	Pass
			16-QAM	RB1#49	15.15	Pass
				RB50#0	15.16	Pass
	15 MHz	LCH	QPSK	RB1#0	15.17	Pass
				RB75#0	15.18	Pass
			16-QAM	RB1#0	15.19	Pass
				RB75#0	15.20	Pass
		HCH	QPSK	RB1#74	15.21	Pass
				RB75#0	15.22	Pass
			16-QAM	RB1#74	15.23	Pass
				RB75#0	15.24	Pass
	20 MHz	LCH	QPSK	RB1#0	15.25	Pass
				RB100#0	15.26	Pass
			16-QAM	RB1#0	15.27	Pass
				RB100#0	15.28	Pass
		HCH	QPSK	RB1#99	15.29	Pass
				RB100#0	15.30	Pass
			16-QAM	RB1#99	15.31	Pass
				RB100#0	15.32	Pass

## 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.:BL-EC2350663-501 Data Part 5.pdf".

### GSM and WCDMA Mode Test Verdict

Test Band	Test Channel	Refer to Plot <sup>Note3</sup>	Verdict
GSM 850	LCH	1.1	Pass
	MCH	1.2	Pass
	HCH	1.3	Pass
GSM 1900	LCH	2.1	Pass
	MCH	2.2	Pass
	HCH	2.3	Pass
EGPRS 850	LCH	3.1	Pass
	MCH	3.2	Pass
	HCH	3.3	Pass
EGPRS 1900	LCH	4.1	Pass
	MCH	4.2	Pass
	HCH	4.3	Pass
WCDMA Band 2	LCH	5.1	Pass
	MCH	5.2	Pass
	HCH	5.3	Pass
WCDMA Band 4	LCH	6.1	Pass
	MCH	6.2	Pass
	HCH	6.3	Pass
WCDMA Band 5	LCH	7.1	Pass
	MCH	7.2	Pass
	HCH	7.3	Pass

### LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Refer to Plot <sup>Note3</sup>	Verdict
Band 2	1.4 MHz	MCH	QPSK	RB1#0	8.1	Pass
	3 MHz	MCH	QPSK	RB1#0	8.2	Pass
	5 MHz	MCH	QPSK	RB1#0	8.3	Pass
	10 MHz	MCH	QPSK	RB1#0	8.4	Pass
	15 MHz	MCH	QPSK	RB1#0	8.5	Pass
	20 MHz	MCH	QPSK	RB1#0	8.6	Pass
Band 4	1.4 MHz	MCH	QPSK	RB1#0	9.1	Pass
	3 MHz	MCH	QPSK	RB1#0	9.2	Pass
	5 MHz	MCH	QPSK	RB1#0	9.3	Pass
	10 MHz	MCH	QPSK	RB1#0	9.4	Pass
	15 MHz	MCH	QPSK	RB1#0	9.5	Pass
	20 MHz	MCH	QPSK	RB1#0	9.6	Pass
Band 5	1.4 MHz	MCH	QPSK	RB1#0	10.1	Pass
	3 MHz	MCH	QPSK	RB1#0	10.2	Pass
	5 MHz	MCH	QPSK	RB1#0	10.3	Pass
	10 MHz	MCH	QPSK	RB1#0	10.4	Pass
Band 7	5 MHz	MCH	QPSK	RB1#0	11.1	Pass
	10 MHz	MCH	QPSK	RB1#0	11.2	Pass
	15 MHz	MCH	QPSK	RB1#0	11.3	Pass
	20 MHz	MCH	QPSK	RB1#0	11.4	Pass
Band 38	5 MHz	MCH	QPSK	RB1#0	12.1	Pass
	10 MHz	MCH	QPSK	RB1#0	12.2	Pass
	15 MHz	MCH	QPSK	RB1#0	12.3	Pass
	20 MHz	MCH	QPSK	RB1#0	12.4	Pass
Band 41	5 MHz	MCH	QPSK	RB1#0	13.1	Pass
	10 MHz	MCH	QPSK	RB1#0	13.2	Pass
	15 MHz	MCH	QPSK	RB1#0	13.3	Pass
	20 MHz	MCH	QPSK	RB1#0	13.4	Pass

## **ANNEX B TEST SETUP PHOTOS**

Please refer to the document "BL-EC2350663-AR.PDF".

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer to the document "BL-EC2350663-AW.PDF".

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer to the document "BL-EC2350663-AI.PDF".

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