



Radio Test Report

Report No.: STS2512362W02

Issued for

Shenzhen Minew Technologies Co., Ltd.
3rd Floor, Technology Incubation Center, Gangzhilong
Science Park, No. 6 QingLong Road, Qinghua Community,
Longhua District, Shenzhen, China.

Product Name: Bluetooth LTE Location Badge

Brand Name: Minew

Model Name: MWC03

Series Model(s): N/A

FCC ID: 2ABU6-MWC03

Test Standards: 47 CFR Part 2, 22H, 24E, 27, 90

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name: Shenzhen Minew Technologies Co., Ltd.
Address.....: 3rd Floor, Technology Incubation Center, Gangzhilong Science Park, No. 6 QingLong Road, Qinghua Community, Longhua District, Shenzhen, China.
Manufacturer's Name: Shenzhen Minew Technologies Co., Ltd.
Address.....: 2nd to 4th Floors, Building 3, Instrument World Industrial Park, No.306 Guiyue Road, Guanlan Pitouxia Community, Longhua District, Shenzhen, China.

Product Description

Product Name: Bluetooth LTE Location Badge
Brand Name: Minew
Model Name: MWC03
Series Model(s): N/A
Test Standards.....: 47 CFR Part 2, 22, 24, 27
Test Procedure: KDB 971168 D01 v03r01, ANSI C63.26(2015)

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....:

Date of receipt of test item: 2025-12-15
Date (s) of performance of tests : 2025-12-15 to 2026-01-23
Date of Issue: 2026-01-23
Test Result: Pass

Testing Engineer :

(Aaron Bu)

Technical Manager :

(Skylar Li)

Authorized Signatory :

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	2026-01-23	STS2512362W02	ALL	Initial Issue



1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01 and ANSI C63.26(2015)

Test Description	FCC Rules	Band	Test Limit	Test Result
Conducted Output Power	2.1046	/	Reporting Only	PASS
Transmitter Radiated Power	22.913	B5	ERP < 7 Watt	PASS
	24.232(c)	B2	EIRP < 2Watt	
	27.50(b)	B13	ERP < 3 Watt	
	27.50(c)	B12	ERP < 3 Watt	
	27.50(d)	B4, B66	EIRP < 1Watt	
Peak-to-Average Ratio	22.913(d)	B5	< 13 dB	PASS
	24.232(d)	B2		
	27.50	B4, B12, B13, B66		
Occupied Bandwidth	2.1049	/	Reporting Only	PASS
Frequency Stability	2.1055	/	< 2.5 ppm	PASS
	22.355	B5		
	24.235	B2		
	27.54	B4, B12, B13, B66,		
Spurious Emission at Antenna Terminals	2.1051	/	< 43+10log10(P[Watts])	PASS
	22.917	B5		
	24.238(a)	B2		
	27.53(c)	B13		
	27.53(g)	B12		
	27.53(h)	B4, B66		
Band Edge	2.1051	/	Please refer to standard	PASS



	22.917	B5		
	24.238(a)	B2		
	27.53(c)	B13		
	27.53(g)	B12		
	27.53(h)	B4, B66		
Field Strength of Spurious Radiation	2.1053	/	< 43+10log10(P[Watts])	PASS
	22.917	B5		
	24.238(a)	B2		
	27.53(c)	B13		
	27.53(g)	B12		
	27.53(h)	B4, B66		



1.1 INTRODUCTION

TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement data shown herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.751\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.888\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.48\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 2.52\text{dB}$
5	All emissions, radiated 1G-18GHz	$\pm 3.48\text{dB}$
6	All emissions, radiated >18GHz	$\pm 4.18\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.48\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.52\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.6\%$
10	Power Spectral Density, conducted	$\pm 1.214\text{dB}$
11	Duty Cycle	$\pm 3.2\%$



2 PRODUCT INFORMATION

Product Name	Bluetooth LTE Location Badge
Brand Name	Minew
Model Name	MWC03
Series Model(s)	N/A
Model Difference	N/A
Tx Frequency:	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 66: 1710MHz ~ 1780MHz
Rx Frequency:	LTE Band 2: 1930 MHz ~ 1990 MHz LTE Band 4: 2110 MHz ~ 2155 MHz LTE Band 5: 869 MHz ~ 894 MHz LTE Band 12: 729 MHz ~ 746 MHz LTE Band 13: 746 MHz ~ 756 MHz LTE Band 66: 2110MHz ~ 2200MHz
Max RF Output Power:	LTE Band 2: 23.96 dBm LTE Band 4: 23.83 dBm LTE Band 5: 23.93 dBm LTE Band 12: 23.74 dBm LTE Band 13: 23.52 dBm LTE Band 66: 24.88 dBm
Modulation Characteristics:	LTE: QPSK /16QAM
SIM Card:	SIM 1
Antenna:	FPC antenna
Antenna gain:	LTE Band 2: 1.28dBi LTE Band 4: -1.43dBi LTE Band 5: -1.03dBi LTE Band 12: -5.11dBi LTE Band 13: -0.9dBi LTE Band 66: -1dBi
Extreme Vol. Limits:	DC 3.5-4.2V
Extreme Temp. Tolerance:	-20~60°C
Power Rating	DC 5V/0.8A
Adapter	N/A
Battery	DC 3.7 V,1400mAh
Hardware version number:	N/A
Software version number:	N/A

**** Note:** The High Voltage \${Max. Vol.} and Low Voltage \${Min. Vol.} was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage, the antenna information refer the manufacturer provide report, applicable only to the tested sample identified



in the report.

Test channel list

Band2	1.9GHz	Frequency(MHz)	Channel	Band4	1.7GHz	Frequency (MHz)	Channel
L	1.4M	1850.7	18607	L	1.4M	1710.7	19957
	3M	1851.5	18615		3M	1711.5	19965
	5M	1852.5	18625		5M	1712.5	19975
	10M	1855	18650		10M	1715	20000
	15M	1857.5	18675		15M	1717.5	20025
	20M	1860	18700		20M	1720	20050
M	1.4/3/5/10/15/20M	1880	18900	M	1.4/3/5/10/15/20M	1732.5	20175
H	1.4M	1909.3	19193	H	1.4M	1754.3	20393
	3M	1908.5	19185		3M	1753.5	20385
	5M	1907.5	19175		5M	1752.5	20375
	10M	1905	19150		10M	1750	20350
	15M	1902.5	19125		15M	1747.5	20325
	20M	1900	19100		20M	1745	20300
Band5	850MHz	Frequency(MHz)	Channel	Band12	700MHz	Frequency (MHz)	Channel
L	1.4M	824.7	20407	L	1.4M	699.7	23017
	3M	825.5	20415		3M	700.5	23025
	5M	826.5	20425		5M	701.5	23035
	10M	829	20450		10M	704	23060
M	1.4/3/5/10M	836.5	20525	M	1.4/3/5/10M	707.5	23095
H	1.4M	848.3	20643	H	1.4M	715.3	23173
	3M	847.5	20635		3M	714.5	23165
	5M	846.5	20625		5M	713.5	23155
	10M	844	20600		10M	711	23130
Band13	700MHz	Frequency(MHz)	Channel	Band66	1.7GHz	Frequency (MHz)	Channel
L	5M	779.5	23205	L	1.4M	1710.7	131979
	10M	782	23230		3M	1711.5	131987
M	5/10M	782	23230		5M	1712.5	131997
H	5M	784.5	23255		10M	1715	132022
	10M	782	23230		15M	1717.5	132047
					20M	1720	132072
				M	1.4/3/5/10/15/20M	1745	132322
				H	1.4M	1779.3	132665
					3M	1778.5	132657
					5M	1777.5	132647
					10M	1775	132622
					15M	1772.5	132597
					20M	1770	132572

EMISSION DESIGNATOR

LTE Band 2	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
1.4	1M09G7D	0.189	1M09W7D	0.188
3	2M70G7D	0.186	2M70W7D	0.196
5	4M51G7D	0.186	4M51W7D	0.196
10	9M00G7D	0.182	1M19W7D	0.179
15	13M4G7D	0.193	1M69W7D	0.194
20	17M9G7D	0.199	2M05W7D	0.198

LTE Band 4	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
1.4	1M09G7D	0.181	1M09W7D	0.177
3	2M70G7D	0.193	2M71W7D	0.187
5	4M52G7D	0.191	4M51W7D	0.197
10	9M00G7D	0.187	1M16W7D	0.169
15	13M5G7D	0.194	1M76W7D	0.195
20	18M01G7D	0.198	2M12W7D	0.198

LTE Band 5	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
1.4	1M09G7D	0.179	1M10W7D	0.171
3	2M70G7D	0.185	2M69W7D	0.177
5	4M52G7D	0.185	4M52W7D	0.177
10	9M02G7D	0.195	1M23W7D	0.179

LTE Band 12	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
1.4	1M09G7D	0.176	1M09W7D	0.183
3	2M69G7D	0.181	2M70W7D	0.187
5	4M50G7D	0.179	4M48W7D	0.185
10	9M00G7D	0.188	1M18W7D	0.192

LE Band 13	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	4M51G7D	0.197	4M52W7D	0.187
10	9M00G7D	0.200	1M12W7D	0.190



LTE Band 66	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
1.4	1M09G7D	0.179	1M09W7D	0.169
3	2M70G7D	0.178	2M70W7D	0.188
5	4M53G7D	0.186	4M51W7D	0.178
10	9M01G7D	0.175	1M19W7D	0.195
15	13M5G7D	0.185	1M79W7D	0.195
20	18M0G7D	0.192	2M13W7D	0.199



3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic for WCDMA Band IV.
3. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:



LTE:

Test Items	Band	Bandwidth (MHz)						RB#			Test Channel			Modulation
		1.4	3	5	10	15	20	1	Half	Full	L	M	H	
Max.Output Power	2	V	V	V	V	V	V	V	V	V	V	V	V	QPSK
		V	V	V	-	-	-	V	V	V	V	V	V	16QAM
	4	V	V	V	V	V	V	V	V	V	V	V	V	QPSK
		V	V	V	-	-	-	V	V	V	V	V	V	16QAM
	5	V	V	V	V	-	-	V	V	V	V	V	V	QPSK
		V	V	V	-	-	-	V	V	V	V	V	V	16QAM
	12	V	V	V	V	-	-	V	V	V	V	V	V	QPSK
		V	V	V	-	-	-	V	V	V	V	V	V	16QAM
	13	-	-	V	V	-	-	V	V	V	V	V	V	QPSK
		-	-	V	-	-	-	V	V	V	V	V	V	16QAM
	66	V	V	V	V	V	V	V	V	V	V	V	V	QPSK
		V	V	V	-	-	-	V	V	V	V	V	V	16QAM
Peak-to-Average Ratio	2	V	V	V	V	V	V	V	V	V	V	V	V	QPSK
		V	V	V	-	-	-	V	V	V	V	V	V	16QAM
	4	V	V	V	V	V	V	V	V	V	V	V	V	QPSK
		V	V	V	-	-	-	V	V	V	V	V	V	16QAM
	5	V	V	V	V	-	-	V	V	V	V	V	V	QPSK
		V	V	V	-	-	-	V	V	V	V	V	V	16QAM
	12	V	V	V	V	-	-	V	V	V	-	V	-	QPSK
		V	V	V	-	-	-	V	V	V	-	V	-	16QAM
	13	-	-	V	V	-	-	V	V	V	V	V	V	QPSK
		-	-	V	-	-	-	V	V	V	V	V	V	16QAM
	66	V	V	V	V	V	V	V	V	V	V	V	V	QPSK
		V	V	V	-	-	-	V	V	V	V	V	V	16QAM
26dB and 99% Bandwidth	2	V	V	V	V	V	V	V	V	V	V	V	V	QPSK
		V	V	V	-	-	-	V	V	V	V	V	V	16QAM
	4	V	V	V	V	V	V	V	V	V	V	V	V	QPSK
		V	V	V	-	-	-	V	V	V	V	V	V	16QAM
	5	V	V	V	V	-	-	V	V	V	V	V	V	QPSK
		V	V	V	-	-	-	V	V	V	V	V	V	16QAM
	12	V	V	V	V	-	-	V	V	V	-	V	-	QPSK
		V	V	V	-	-	-	V	V	V	-	V	-	16QAM
	13	-	-	V	V	-	-	V	V	V	V	V	V	QPSK
		-	-	V	-	-	-	V	V	V	V	V	V	16QAM
	66	V	V	V	V	V	V	V	V	V	V	V	V	QPSK
		V	V	V	-	-	-	V	V	V	V	V	V	16QAM



		V	V	V	-	-	-	V	V	V	V	V	V	16QAM
Conducted Band Edge	2	V	V	V	V	V	V	V	V	V	V	-	V	QPSK
		V	V	V	-	-	-	V	V	V	V	-	V	16QAM
	4	V	V	V	V	V	V	V	V	V	V	-	V	QPSK
		V	V	V	-	-	-	V	V	V	V	-	V	16QAM
	5	V	V	V	V	-	-	V	V	V	V	-	V	QPSK
		V	V	V	-	-	-	V	V	V	V	-	V	16QAM
	12	V	V	V	V	-	-	V	V	V	V	-	V	QPSK
		V	V	V	-	-	-	V	V	V	V	-	V	16QAM
	13	-	-	V	V	-	-	V	V	V	V	-	V	QPSK
		-	-	V	-	-	-	V	V	V	V	-	V	16QAM
	66	V	V	V	V	V	V	V	V	V	V	-	V	QPSK
		V	V	V	-	-	-	V	V	V	V	-	V	16QAM
Conducted Spurious Emission	2	V	V	V	V	V	V	V	-	-	V	V	V	QPSK
		V	V	V	-	-	-	V	-	-	V	V	V	16QAM
	4	V	V	V	V	V	V	V	-	-	V	V	V	QPSK
		V	V	V	-	-	-	V	-	-	V	V	V	16QAM
	5	V	V	V	V	-	-	V	-	-	V	V	V	QPSK
		V	V	V	-	-	-	V			V	V	V	16QAM
	12	V	V	V	V	-	-	V	-	-	V	V	V	QPSK
		V	V	V	-	-	-	V	-	-	V	V	V	16QAM
	13	-	-	V	V	-	-	V	-	-	V	V	V	QPSK
		-	-	V	-	-	-	V	-	-	V	V	V	16QAM
	66	V	V	V	V	V	V	V	-	-	V	V	V	QPSK
		V	V	V	-	-	-	V	-	-	V	V	V	16QAM
Frequency tability	2	V	V	V	V	V	V	V	-	-	V	V	V	QPSK
		V	V	V	-	-	-	V	-	-	V	V	V	16QAM
	4	V	V	V	V	V	V	V	-	-	V	V	V	QPSK
		V	V	V	-	-	-	V	-	-	V	V	V	16QAM
	5	V	V	V	V	-	-	V	-	-	V	V	V	QPSK
		V	V	V	-	-	-	V			V	V	V	16QAM
	12	V	-	-	-	-	-	V	-	-	V	V	V	QPSK
		V	V	V	-	-	-	V	-	-	V	V	V	16QAM
	13	-	-	V	V	-	-	V	-	-	V	V	V	QPSK
		-	-	V	-	-	-	V	-	-	V	V	V	16QAM
	66	V	V	V	V	V	V	V	-	-	V	V	V	QPSK
		V	V	V	-	-	-	V	-	-	V	V	V	16QAM
E.R.P./ E.I.R.P.	2	V	V	V	V	V	V	V	V	V	V	-	V	QPSK



		V	V	V	-	-	-	V	V	V	V	-	V	16QAM
	4	V	V	V	V	V	V	V	V	V	V	-	V	QPSK
		V	V	V	-	-	-	V	V	V	V	-	V	16QAM
	5	V	V	V	V	-	-	V	V	V	V	-	V	QPSK
		V	V	V	-	-	-	V	V	V	V	-	V	16QAM
	12	V	V	V	V	-	-	V	V	V	V	-	V	QPSK
		V	V	V	-	-	-	V	V	V	V	-	V	16QAM
	13	-	-	V	V	-	-	V	V	V	V	-	V	QPSK
		-	-	V	-	-	-	V	V	V	V	-	V	16QAM
	66	V	V	V	V	V	V	V	V	V	V	-	V	QPSK
		V	V	V	-	-	-	V	V	V	V	-	V	16QAM
Radiated Spurious Emission	2	V	-	-	-	-	-	V	-	-	V	V	V	QPSK
		V	-	-	-	-	-	V	-	-	V	V	V	16QAM
	4	V	-	-	-	-	-	V	-	-	V	V	V	QPSK
		V	-	-	-	-	-	V	-	-	V	V	V	16QAM
	5	V	-	-	-	-	-	V	-	-	V	V	V	QPSK
		V	-	-	-	-	-	V	-	-	V	V	V	16QAM
	12	V	-	-	-	-	-	V	-	-	V	V	V	QPSK
		V	-	-	-	-	-	V	-	-	V	V	V	16QAM
	13	-	-	V	-	-	-	V	-	-	V	V	V	QPSK
		-	-	V	-	-	-	V	-	-	V	V	V	16QAM
	66	V	-	-	-	-	-	V	-	-	V	V	V	QPSK
		V	-	-	-	-	-	V	-	-	V	V	V	16QAM
Note	1.The mark “v “ means that this configuration is chosen for testing 2.The mark “-“ means that this bandwidth is not supported.													

**4 MEASUREMENT INSTRUMENTS**

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Wireless Communications Test Set	R&S	CMW 500	117239	2025.09.26	2026.09.25
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA 1840-50	SK2018101801	2025.02.22	2026.02.21
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Video Controller	SKET	FCS C-3	N/A	N/A	N/A
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2025.09.27	2027.09.26
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	N/A	N/A	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC Power Supply	Zhaoxin	RXN 605D	20R605D11010081	2025.09.22	2026.09.21
Test SW	EMC Test Software	25.5 en			
	EZ-EMC	Ver.STSLAB-03A1 RE			
RF Connected Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Wireless Communications Test Set	R&S	CMW 500	131428	2025.02.22	2026.02.21
Signal Analyzer	Agilent	N9020A	MY52440124	2025.02.22	2026.02.21
RF Automatic Test System	Maiwei	MW200-SFCB	N/A	N/A	N/A
Temperature & Humidity Test Chamber	Safety test	AG80L	171200018	2025.02.22	2026.02.21
Programmable Power Supply	Agilent	E3642A	MY40002025	2025.09.26	2026.09.25
POWER DIVIDER	eastsheep	PD-0.5/0.6-2S	N/A	2025.02.25	2026.02.24
Test SW	MTS 8200	2.0.0.0			

5 TEST ITEMS

5.1 CONDUCTED OUTPUT POWER&TRANSMITTER RADIATED POWER

TEST OVERVIEW

CONDUCTED OUTPUT POWER:

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

TRANSMITTER RADIATED POWER (EIRP/ERP)

Determining ERP and/or EIRP from conducted RF output power measurements according to ANSI C63.26 2015 Section 5.2.5.5.

In many cases, RF output power limits are specified in terms of the ERP or the 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 defined as the product of the power supplied to the antenna and its gain (relative to a dipole antenna in the case of ERP, and relative to an isotropic antenna in the case of EIRP); however, when working in decibels (i.e., logarithmic scale), the ERP and EIRP represent the sum of the transmit antenna gain (in dBd or dBi, respectively) and the conducted RF output power (expressed in dB relative to watts or milliwatts). The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$(1) \text{ ERP or EIRP} = P_{\text{Meas}} + GT$$

$$\text{ERP} = \text{EIRP} - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

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

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

For devices utilizing multiple antennas, see 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between ERP and EIRP:

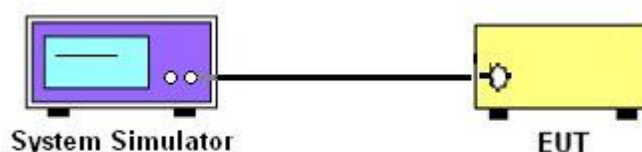
a) $\text{ERP} = \text{EIRP} - 2.15$, where ERP and EIRP are expressed in consistent units.

b) $\text{EIRP} = \text{ERP} + 2.15$, where ERP and EIRP are expressed in consistent units.

TEST PROCEDURES

1. The transmitter output port was connected to the system simulator.
2. Set eut at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

TEST SETUP



**TEST RESULT****Max Radiated Power:**

FDD-LTE Band 2

Channel Bandwidth: 1.4MHz			
Modulation	Channel	E.I.R.P.(dBm)	Verdict
QPSK	LCH	22.25	PASS
	MCK	22.77	PASS
	HCH	22.4	PASS
16QAM	LCH	22.75	PASS
	MCK	22.16	PASS
	HCH	22.65	PASS
Channel Bandwidth: 3MHz			
Modulation	Channel	E.I.R.P.(dBm)	Verdict
QPSK	LCH	22.56	PASS
	MCK	22.36	PASS
	HCH	22.69	PASS
16QAM	LCH	22.36	PASS
	MCK	22.93	PASS
	HCH	22.05	PASS
Channel Bandwidth: 5MHz			
Modulation	Channel	E.I.R.P.(dBm)	Verdict
QPSK	LCH	22.45	PASS
	MCK	22.61	PASS
	HCH	22.55	PASS
16QAM	LCH	22.52	PASS
	MCK	22.41	PASS
	HCH	22.47	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.I.R.P.(dBm)	Verdict
QPSK	LCH	22.63	PASS
	MCK	22.61	PASS
	HCH	22.72	PASS
16QAM	LCH	22.55	PASS
	MCK	22.33	PASS
	HCH	22.92	PASS
Channel Bandwidth: 15MHz			
Modulation	Channel	E.I.R.P.(dBm)	Verdict
QPSK	LCH	22.85	PASS
	MCK	22.2	PASS
	HCH	22.71	PASS
16QAM	LCH	22.89	PASS
	MCK	22.26	PASS
	HCH	22.5	PASS
Channel Bandwidth: 20MHz			
Modulation	Channel	E.I.R.P.(dBm)	Verdict
QPSK	LCH	22.99	PASS
	MCK	22.9	PASS
	HCH	22.03	PASS
16QAM	LCH	22.72	PASS
	MCK	22.98	PASS
	HCH	22.24	PASS



FDD-LTE Band 4

Channel Bandwidth: 1.4MHz			
Modulation	Channel	E.I.R.P(dBm)	Verdict
QPSK	LCH	22.58	PASS
	MCK	22.25	PASS
	HCH	22.54	PASS
16QAM	LCH	22.32	PASS
	MCK	22.41	PASS
	HCH	22.48	PASS
Channel Bandwidth: 3MHz			
Modulation	Channel	E.I.R.P(dBm)	Verdict
QPSK	LCH	22.29	PASS
	MCK	22.64	PASS
	HCH	22.85	PASS
16QAM	LCH	22.02	PASS
	MCK	22.72	PASS
	HCH	22.45	PASS
Channel Bandwidth: 5MHz			
Modulation	Channel	E.I.R.P(dBm)	Verdict
QPSK	LCH	22.29	PASS
	MCK	22.5	PASS
	HCH	22.82	PASS
16QAM	LCH	22.23	PASS
	MCK	22.24	PASS
	HCH	22.95	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.I.R.P(dBm)	Verdict
QPSK	LCH	22.59	PASS
	MCK	22.73	PASS
	HCH	22.33	PASS
16QAM	LCH	22.1	PASS
	MCK	22.11	PASS
	HCH	22.28	PASS
Channel Bandwidth: 15MHz			
Modulation	Channel	E.I.R.P(dBm)	Verdict
QPSK	LCH	22.88	PASS
	MCK	22.43	PASS
	HCH	22.7	PASS
16QAM	LCH	22.89	PASS
	MCK	22.06	PASS
	HCH	22.12	PASS
Channel Bandwidth: 20MHz			
Modulation	Channel	E.I.R.P(dBm)	Verdict
QPSK	LCH	22.69	PASS
	MCK	22.96	PASS
	HCH	22.13	PASS
16QAM	LCH	22.36	PASS
	MCK	22.3	PASS
	HCH	22.97	PASS



FDD-LTE Band 5

Channel Bandwidth: 1.4MHz			
Modulation	Channel	E.R.P(dBm)	Verdict
QPSK	LCH	22.53	PASS
	MCK	22.19	PASS
	HCH	22.02	PASS
16QAM	LCH	22.22	PASS
	MCK	22.43	PASS
	HCH	22.43	PASS
Channel Bandwidth: 3MHz			
Modulation	Channel	E.R.P(dBm)	Verdict
QPSK	LCH	22.13	PASS
	MCK	22.14	PASS
	HCH	22.66	PASS
16QAM	LCH	22.49	PASS
	MCK	22.32	PASS
	HCH	22.16	PASS
Channel Bandwidth: 5MHz			
Modulation	Channel	E.R.P(dBm)	Verdict
QPSK	LCH	22.67	PASS
	MCK	22.65	PASS
	HCH	22.25	PASS
16QAM	LCH	22.1	PASS
	MCK	22.42	PASS
	HCH	22.48	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.R.P(dBm)	Verdict
QPSK	LCH	22.91	PASS
	MCK	22.05	PASS
	HCH	22.38	PASS
16QAM	LCH	22.54	PASS
	MCK	22.39	PASS
	HCH	22.1	PASS



FDD-LTE Band 12

Channel Bandwidth: 1.4MHz			
Modulation	Channel	E.R.P(dBm)	Verdict
QPSK	LCH	22.11	PASS
	MCK	22.45	PASS
	HCH	22.33	PASS
16QAM	LCH	22.01	PASS
	MCK	22.46	PASS
	HCH	22.63	PASS
Channel Bandwidth: 3MHz			
Modulation	Channel	E.R.P(dBm)	Verdict
QPSK	LCH	22.01	PASS
	MCK	22.57	PASS
	HCH	22.4	PASS
16QAM	LCH	22.21	PASS
	MCK	22.66	PASS
	HCH	22.71	PASS
Channel Bandwidth: 5MHz			
Modulation	Channel	E.R.P(dBm)	Verdict
QPSK	LCH	22.41	PASS
	MCK	22.53	PASS
	HCH	22.49	PASS
16QAM	LCH	22.66	PASS
	MCK	22.11	PASS
	HCH	22.66	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.R.P(dBm)	Verdict
QPSK	LCH	22.5	PASS
	MCK	22.75	PASS
	HCH	22.73	PASS
16QAM	LCH	22.19	PASS
	MCK	22.29	PASS
	HCH	22.84	PASS

FDD-LTE Band 13

Channel Bandwidth: 5MHz			
Modulation	Channel	E.R.P(dBm)	Verdict
QPSK	LCH	22.21	PASS
	MCK	22.95	PASS
	HCH	22.33	PASS
16QAM	LCH	22.71	PASS
	MCK	22.44	PASS
	HCH	22.63	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.R.P(dBm)	Verdict
QPSK	/	/	PASS
	MCK	23	PASS
	/	/	PASS
16QAM	/	/	PASS
	MCK	22.79	PASS
	/	/	PASS



FDD-LTE Band 66

Channel Bandwidth: 1.4MHz			
Modulation	Channel	E.I.R.P(dBm)	Verdict
QPSK	LCH	22.35	PASS
	MCK	22.28	PASS
	HCH	22.54	PASS
16QAM	LCH	22.2	PASS
	MCK	22.28	PASS
	HCH	22.19	PASS
Channel Bandwidth: 3MHz			
Modulation	Channel	E.I.R.P(dBm)	Verdict
QPSK	LCH	22.5	PASS
	MCK	22.27	PASS
	HCH	22.27	PASS
16QAM	LCH	22.34	PASS
	MCK	22.07	PASS
	HCH	22.74	PASS
Channel Bandwidth: 5MHz			
Modulation	Channel	E.I.R.P(dBm)	Verdict
QPSK	LCH	22.7	PASS
	MCK	22.08	PASS
	HCH	22.69	PASS
16QAM	LCH	22.23	PASS
	MCK	22.05	PASS
	HCH	22.51	PASS
Channel Bandwidth: 10MHz			
Modulation	Channel	E.I.R.P(dBm)	Verdict
QPSK	LCH	22.44	PASS
	MCK	22.2	PASS
	HCH	22.07	PASS
16QAM	LCH	22.89	PASS
	MCK	22.03	PASS
	HCH	22.68	PASS
Channel Bandwidth: 15MHz			
Modulation	Channel	E.I.R.P(dBm)	Verdict
QPSK	LCH	22.67	PASS
	MCK	22.28	PASS
	HCH	22.49	PASS
16QAM	LCH	22.18	PASS
	MCK	22.89	PASS
	HCH	22.43	PASS
Channel Bandwidth: 20MHz			
Modulation	Channel	E.I.R.P(dBm)	Verdict
QPSK	LCH	22.18	PASS
	MCK	22.84	PASS
	HCH	22.08	PASS
16QAM	LCH	22.99	PASS
	MCK	22.35	PASS
	HCH	22.53	PASS

Max Conducted output Power:

Please refer to appendix 1: Conducted Output Power

Test Result: Pass

5.2 PEAK TO AVERAGE RATIO

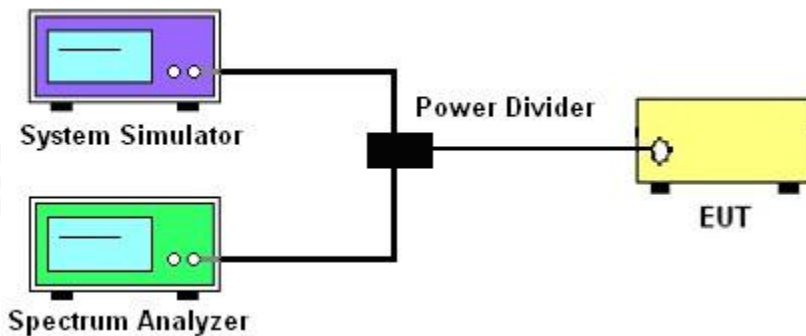
TEST OVERVIEW

According to §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 paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 db.

TEST PROCEDURES

1. The testing follows FCC KDB 971168 v03r01 section.
2. The eut was connected to the peak and av system simulator& spectrum analyzer.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure average power of the spectrum analysis,

TEST SETUP



TEST RESULT

Note: Please refer to appendix 3: Peak-to-Average Ratio

Test Result: Pass

5.3 OCCUPIED BANDWIDTH

TEST OVERVIEW

The occupied bandwidth, that 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 shall be measured.

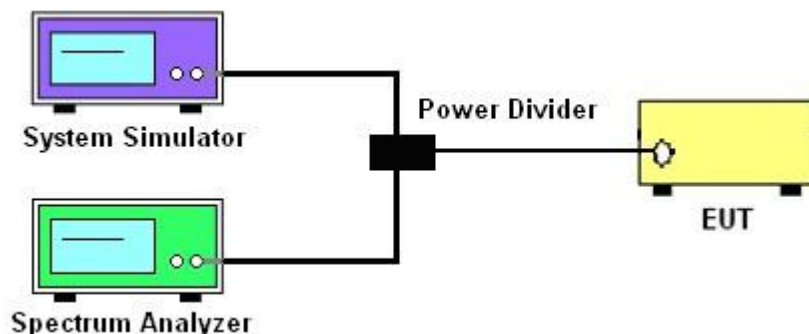
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

All modes of operation were investigated and the worst case configuration results are reported in this section.

TEST PROCEDURE

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. $RBW = 1 - 5\%$ of the expected OBW
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

TEST SETUP



TEST RESULT

Note: Please refer to appendix 4: Occupied bandwidth
Test Result: Pass

5.4 FREQUENCY STABILITY

TEST OVERVIEW

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26 2015.

The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

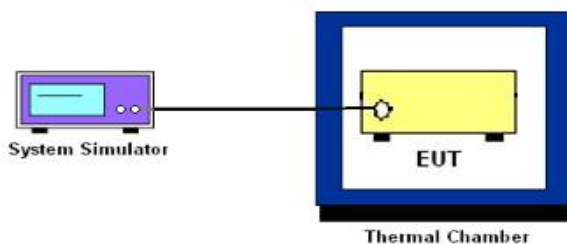
Temperature Variation

1. The testing follows FCC KDB 971168 D01 section 9.0
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

Voltage Variation

1. The testing follows FCC KDB 971168 D01 Section 9.0.
2. The EUT was placed in a temperature chamber at $25 \pm 5^\circ \text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

TEST SETUP



TEST RESULT

Please refer to appendix 2: Frequency stability

Test Result: Pass

5.5 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

TEST OVERVIEW

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7:

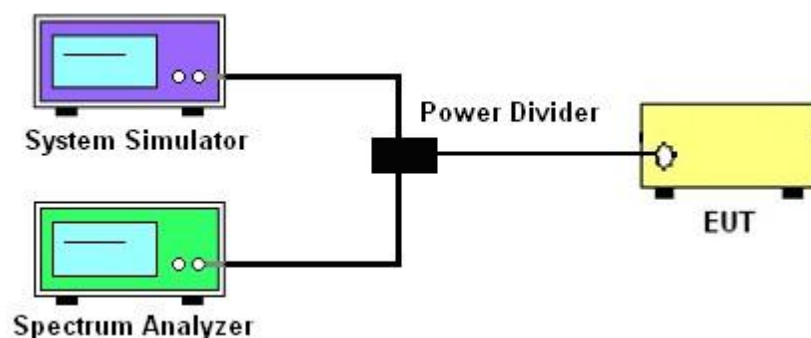
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.7.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13\text{dBm}$.

TEST SETUP



TEST RESULT

Note: Please refer to appendix 6: Out-of-band emissions
Test Result: Pass



5.6 BAND EDGE

TEST OVERVIEW

1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed

3. §27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4. §27.53(m)(4)

For operations in the 2500 MHz ~ 2570 MHz band this section, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5. §27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26-2015-Section 5.7
2. Start and stop frequency were set such that the band edge would be placed in the center of the Plot.
3. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
4. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
5. The band edges of low and high channels for the highest RF powers were measured.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

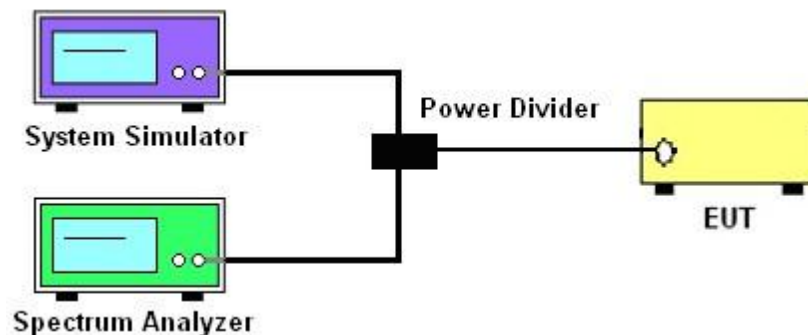
Band 7:

$$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$

$$= -25\text{dBm}.$$

TEST SETUP



TEST RESULT

Note: Please refer to appendix 5: Band edge

Test Result: Pass



5.7 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

TEST OVERVIEW

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power and at the appropriate frequencies.

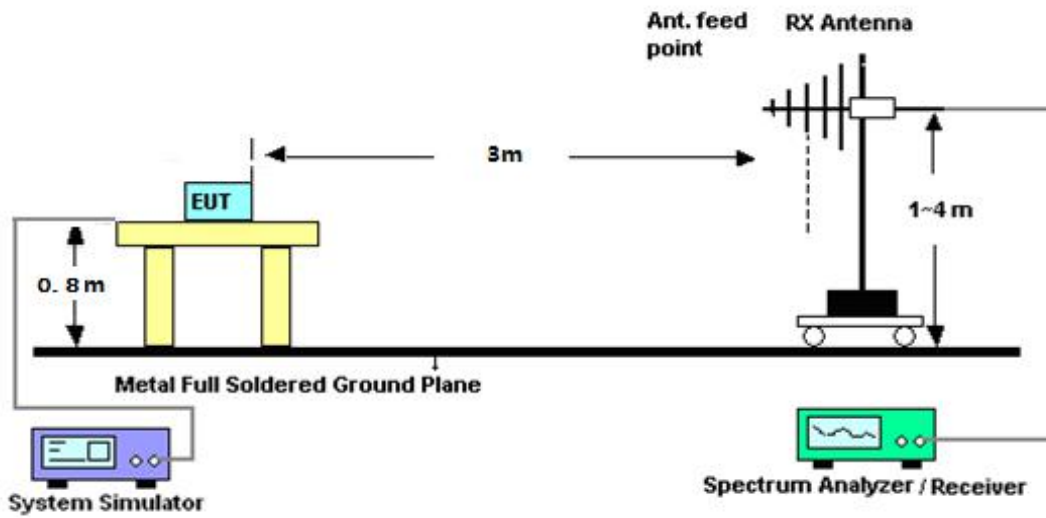
It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

TEST PROCEDURE

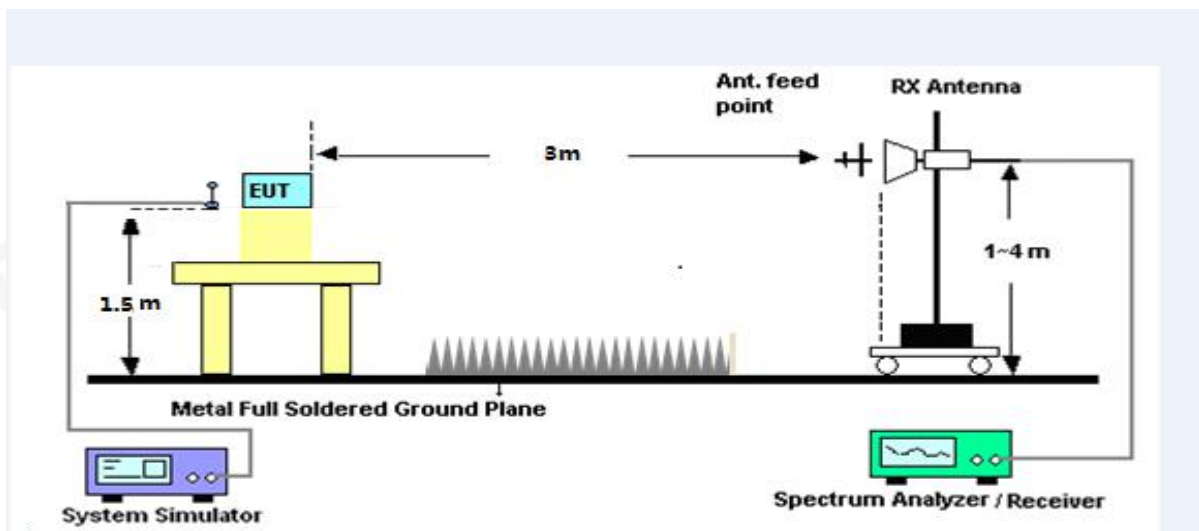
1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $> 2 \times$ span/RBW
6. Detector = Peak
7. Trace mode = max hold
8. The trace was allowed to stabilize
9. Effective Isotropic Spurious Radiation was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna.
 $P_{Mea} = S.G \text{ Level} + \text{Ant-Cable loss}$; $\text{Margin} = P_{Mea} - \text{Limit}$.

TEST SETUP

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



**TEST RESULT**

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3701.11	-33.83	12.60	12.93	-34.16	-13.00	-21.16	H
5551.90	-35.18	13.10	17.11	-39.19	-13.00	-26.19	H
7402.61	-32.62	11.50	22.20	-43.32	-13.00	-30.32	H
3701.11	-35.48	12.60	12.93	-35.81	-13.00	-22.81	V
5551.90	-35.18	13.10	17.11	-39.19	-13.00	-26.19	V
7402.61	-31.85	11.50	22.20	-42.55	-13.00	-29.55	V
LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3759.77	-34.20	12.60	12.93	-34.53	-13.00	-21.53	H
5640.27	-34.78	13.10	17.11	-38.79	-13.00	-25.79	H
7520.04	-32.96	11.50	22.20	-43.66	-13.00	-30.66	H
3759.77	-35.86	12.60	12.93	-36.19	-13.00	-23.19	V
5640.27	-34.83	13.10	17.11	-38.84	-13.00	-25.84	V
7520.04	-32.23	11.50	22.20	-42.93	-13.00	-29.93	V
LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3818.50	-34.13	12.60	12.93	-34.46	-13.00	-21.46	H
5727.78	-34.62	13.10	17.11	-38.63	-13.00	-25.63	H
7636.93	-32.73	11.50	22.20	-43.43	-13.00	-30.43	H
3818.50	-35.34	12.60	12.93	-35.67	-13.00	-22.67	V
5727.78	-34.75	13.10	17.11	-38.76	-13.00	-25.76	V
7636.93	-32.16	11.50	22.20	-42.86	-13.00	-29.86	V



LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3703.28	-34.05	12.60	12.93	-34.38	-13.00	-21.38	H
5554.45	-35.42	13.10	17.11	-39.43	-13.00	-26.43	H
7406.13	-32.59	11.50	22.20	-43.29	-13.00	-30.29	H
3703.28	-35.76	12.60	12.93	-36.09	-13.00	-23.09	V
5554.45	-34.67	13.10	17.11	-38.68	-13.00	-25.68	V
7406.13	-32.14	11.50	22.20	-42.84	-13.00	-29.84	V
LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3759.87	-34.19	12.60	12.93	-34.52	-13.00	-21.52	H
5639.87	-35.07	13.10	17.11	-39.08	-13.00	-26.08	H
7520.25	-32.66	11.50	22.20	-43.36	-13.00	-30.36	H
3759.87	-35.17	12.60	12.93	-35.50	-13.00	-22.50	V
5639.87	-35.10	13.10	17.11	-39.11	-13.00	-26.11	V
7520.25	-32.40	11.50	22.20	-43.10	-13.00	-30.10	V
LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3817.15	-34.22	12.60	12.93	-34.55	-13.00	-21.55	H
5725.35	-34.48	13.10	17.11	-38.49	-13.00	-25.49	H
7633.84	-32.82	11.50	22.20	-43.52	-13.00	-30.52	H
3817.15	-34.99	12.60	12.93	-35.32	-13.00	-22.32	V
5725.35	-34.53	13.10	17.11	-38.54	-13.00	-25.54	V
7633.84	-32.57	11.50	22.20	-43.27	-13.00	-30.27	V



LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3705.48	-34.24	12.60	12.93	-34.57	-13.00	-21.57	H
5557.20	-35.44	13.10	17.11	-39.45	-13.00	-26.45	H
7410.00	-32.62	11.50	22.20	-43.32	-13.00	-30.32	H
3705.48	-34.58	12.60	12.93	-34.91	-13.00	-21.91	V
5557.20	-34.36	13.10	17.11	-38.37	-13.00	-25.37	V
7410.00	-32.06	11.50	22.20	-42.76	-13.00	-29.76	V
LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3759.87	-33.53	12.60	12.93	-33.86	-13.00	-20.86	H
5640.19	-35.39	13.10	17.11	-39.40	-13.00	-26.40	H
7520.18	-32.52	11.50	22.20	-43.22	-13.00	-30.22	H
3759.87	-35.41	12.60	12.93	-35.74	-13.00	-22.74	V
5640.19	-34.48	13.10	17.11	-38.49	-13.00	-25.49	V
7520.18	-32.72	11.50	22.20	-43.42	-13.00	-30.42	V
LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3815.28	-34.86	12.60	12.93	-35.19	-13.00	-22.19	H
5722.30	-34.93	13.10	17.11	-38.94	-13.00	-25.94	H
7630.29	-33.00	11.50	22.20	-43.70	-13.00	-30.70	H
3815.28	-35.21	12.60	12.93	-35.54	-13.00	-22.54	V
5722.30	-35.12	13.10	17.11	-39.13	-13.00	-26.13	V
7630.29	-32.40	11.50	22.20	-43.10	-13.00	-30.10	V



LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3710.04	-33.87	12.60	12.93	-34.20	-13.00	-21.20	H
5565.01	-35.08	13.10	17.11	-39.09	-13.00	-26.09	H
7419.94	-32.72	11.50	22.20	-43.42	-13.00	-30.42	H
3710.04	-34.65	12.60	12.93	-34.98	-13.00	-21.98	V
5565.01	-34.34	13.10	17.11	-38.35	-13.00	-25.35	V
7419.94	-33.07	11.50	22.20	-43.77	-13.00	-30.77	V
LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3760.06	-34.45	12.60	12.93	-34.78	-13.00	-21.78	H
5639.98	-34.56	13.10	17.11	-38.57	-13.00	-25.57	H
7519.94	-32.53	11.50	22.20	-43.23	-13.00	-30.23	H
3760.06	-34.57	12.60	12.93	-34.90	-13.00	-21.90	V
5639.98	-34.20	13.10	17.11	-38.21	-13.00	-25.21	V
7519.94	-31.90	11.50	22.20	-42.60	-13.00	-29.60	V
LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3810.17	-33.77	12.60	12.93	-34.10	-13.00	-21.10	H
5714.96	-35.11	13.10	17.11	-39.12	-13.00	-26.12	H
7620.29	-33.04	11.50	22.20	-43.74	-13.00	-30.74	H
3810.17	-35.40	12.60	12.93	-35.73	-13.00	-22.73	V
5714.96	-35.02	13.10	17.11	-39.03	-13.00	-26.03	V
7620.29	-32.13	11.50	22.20	-42.83	-13.00	-29.83	V



LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3714.81	-34.18	12.60	12.93	-34.51	-13.00	-21.51	H
5572.22	-34.64	13.10	17.11	-38.65	-13.00	-25.65	H
7430.79	-33.41	11.50	22.20	-44.11	-13.00	-31.11	H
3714.81	-35.61	12.60	12.93	-35.94	-13.00	-22.94	V
5572.22	-34.71	13.10	17.11	-38.72	-13.00	-25.72	V
7430.79	-32.93	11.50	22.20	-43.63	-13.00	-30.63	V
LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3760.10	-34.78	12.60	12.93	-35.11	-13.00	-22.11	H
5640.25	-34.86	13.10	17.11	-38.87	-13.00	-25.87	H
7519.97	-32.90	11.50	22.20	-43.60	-13.00	-30.60	H
3760.10	-34.91	12.60	12.93	-35.24	-13.00	-22.24	V
5640.25	-34.78	13.10	17.11	-38.79	-13.00	-25.79	V
7519.97	-32.44	11.50	22.20	-43.14	-13.00	-30.14	V
LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3805.20	-34.90	12.60	12.93	-35.23	-13.00	-22.23	H
5707.43	-34.11	13.10	17.11	-38.12	-13.00	-25.12	H
7610.23	-33.20	11.50	22.20	-43.90	-13.00	-30.90	H
3805.20	-35.37	12.60	12.93	-35.70	-13.00	-22.70	V
5707.43	-34.06	13.10	17.11	-38.07	-13.00	-25.07	V
7610.23	-32.14	11.50	22.20	-42.84	-13.00	-29.84	V



LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3720.33	-33.57	12.60	12.93	-33.90	-13.00	-20.90	H
5580.08	-34.29	13.10	17.11	-38.30	-13.00	-25.30	H
7439.96	-33.64	11.50	22.20	-44.34	-13.00	-31.34	H
3720.33	-35.21	12.60	12.93	-35.54	-13.00	-22.54	V
5580.08	-34.37	13.10	17.11	-38.38	-13.00	-25.38	V
7439.96	-32.46	11.50	22.20	-43.16	-13.00	-30.16	V
LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3759.98	-34.84	12.60	12.93	-35.17	-13.00	-22.17	H
5640.29	-34.85	13.10	17.11	-38.86	-13.00	-25.86	H
7520.04	-33.23	11.50	22.20	-43.93	-13.00	-30.93	H
3759.98	-35.27	12.60	12.93	-35.60	-13.00	-22.60	V
5640.29	-34.03	13.10	17.11	-38.04	-13.00	-25.04	V
7520.04	-33.06	11.50	22.20	-43.76	-13.00	-30.76	V
LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3799.81	-33.96	12.60	12.93	-34.29	-13.00	-21.29	H
5699.74	-34.48	13.10	17.11	-38.49	-13.00	-25.49	H
7599.75	-32.72	11.50	22.20	-43.42	-13.00	-30.42	H
3799.81	-35.17	12.60	12.93	-35.50	-13.00	-22.50	V
5699.74	-35.22	13.10	17.11	-39.23	-13.00	-26.23	V
7599.75	-31.88	11.50	22.20	-42.58	-13.00	-29.58	V



LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3420.91	-34.19	12.90	12.56	-33.85	-13.00	-20.85	H
5131.89	-35.23	13.10	16.32	-38.45	-13.00	-25.45	H
6842.77	-33.32	12.33	21.13	-42.12	-13.00	-29.12	H
3420.91	-35.76	12.90	12.56	-35.42	-13.00	-22.42	V
5131.89	-35.01	13.10	16.32	-38.23	-13.00	-25.23	V
6842.77	-32.46	12.33	21.13	-41.26	-13.00	-28.26	V
LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3464.95	-33.64	12.90	12.56	-33.30	-13.00	-20.30	H
5196.85	-34.24	13.10	16.32	-37.46	-13.00	-24.46	H
6930.20	-33.49	12.33	21.13	-42.29	-13.00	-29.29	H
3464.95	-35.83	12.90	12.56	-35.49	-13.00	-22.49	V
5196.85	-34.32	13.10	16.32	-37.54	-13.00	-24.54	V
6930.20	-31.81	12.33	21.13	-40.61	-13.00	-27.61	V
LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3508.26	-33.99	12.90	12.56	-33.65	-13.00	-20.65	H
5262.34	-35.30	13.10	16.32	-38.52	-13.00	-25.52	H
7015.38	-32.35	12.33	21.13	-41.15	-13.00	-28.15	H
3508.26	-34.90	12.90	12.56	-34.56	-13.00	-21.56	V
5262.34	-34.73	13.10	16.32	-37.95	-13.00	-24.95	V
7015.38	-32.59	12.33	21.13	-41.39	-13.00	-28.39	V



LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3424.06	-34.53	12.90	12.56	-34.19	-13.00	-21.19	H
5135.86	-34.71	13.10	16.32	-37.93	-13.00	-24.93	H
6848.50	-32.53	12.33	21.13	-41.33	-13.00	-28.33	H
3424.06	-35.02	12.90	12.56	-34.68	-13.00	-21.68	V
5135.86	-34.23	13.10	16.32	-37.45	-13.00	-24.45	V
6848.50	-32.11	12.33	21.13	-40.91	-13.00	-27.91	V
LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3464.65	-34.72	12.90	12.56	-34.38	-13.00	-21.38	H
5196.70	-34.41	13.10	16.32	-37.63	-13.00	-24.63	H
6930.14	-33.38	12.33	21.13	-42.18	-13.00	-29.18	H
3464.65	-35.69	12.90	12.56	-35.35	-13.00	-22.35	V
5196.70	-35.01	13.10	16.32	-38.23	-13.00	-25.23	V
6930.14	-32.73	12.33	21.13	-41.53	-13.00	-28.53	V
LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3506.35	-34.05	12.90	12.56	-33.71	-13.00	-20.71	H
5261.96	-34.66	13.10	16.32	-37.88	-13.00	-24.88	H
7012.70	-32.42	12.33	21.13	-41.22	-13.00	-28.22	H
3506.35	-34.63	12.90	12.56	-34.29	-13.00	-21.29	V
5261.96	-34.44	13.10	16.32	-37.66	-13.00	-24.66	V
7012.70	-32.42	12.33	21.13	-41.22	-13.00	-28.22	V



LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3424.62	-34.03	12.90	12.56	-33.69	-13.00	-20.69	H
5136.87	-34.82	13.10	16.32	-38.04	-13.00	-25.04	H
6849.82	-32.33	12.33	21.13	-41.13	-13.00	-28.13	H
3424.62	-35.62	12.90	12.56	-35.28	-13.00	-22.28	V
5136.87	-34.82	13.10	16.32	-38.04	-13.00	-25.04	V
6849.82	-31.92	12.33	21.13	-40.72	-13.00	-27.72	V
LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3464.33	-34.54	12.90	12.56	-34.20	-13.00	-21.20	H
5196.57	-35.24	13.10	16.32	-38.46	-13.00	-25.46	H
6929.65	-32.82	12.33	21.13	-41.62	-13.00	-28.62	H
3464.33	-35.84	12.90	12.56	-35.50	-13.00	-22.50	V
5196.57	-34.68	13.10	16.32	-37.90	-13.00	-24.90	V
6929.65	-32.48	12.33	21.13	-41.28	-13.00	-28.28	V
LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3505.03	-33.77	12.90	12.56	-33.43	-13.00	-20.43	H
5256.83	-34.50	13.10	16.32	-37.72	-13.00	-24.72	H
7010.07	-33.27	12.33	21.13	-42.07	-13.00	-29.07	H
3505.03	-35.85	12.90	12.56	-35.51	-13.00	-22.51	V
5256.83	-34.46	13.10	16.32	-37.68	-13.00	-24.68	V
7010.07	-32.14	12.33	21.13	-40.94	-13.00	-27.94	V



LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3430.16	-34.13	12.90	12.56	-33.79	-13.00	-20.79	H
5145.18	-35.09	13.10	16.32	-38.31	-13.00	-25.31	H
6860.23	-33.40	12.33	21.13	-42.20	-13.00	-29.20	H
3430.16	-35.58	12.90	12.56	-35.24	-13.00	-22.24	V
5145.18	-34.15	13.10	16.32	-37.37	-13.00	-24.37	V
6860.23	-32.49	12.33	21.13	-41.29	-13.00	-28.29	V
LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3464.47	-34.92	12.90	12.56	-34.58	-13.00	-21.58	H
5196.81	-34.54	13.10	16.32	-37.76	-13.00	-24.76	H
6929.84	-32.47	12.33	21.13	-41.27	-13.00	-28.27	H
3464.47	-34.93	12.90	12.56	-34.59	-13.00	-21.59	V
5196.81	-35.00	13.10	16.32	-38.22	-13.00	-25.22	V
6929.84	-32.43	12.33	21.13	-41.23	-13.00	-28.23	V
LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3500.29	-34.67	12.90	12.56	-34.33	-13.00	-21.33	H
5250.08	-34.37	13.10	16.32	-37.59	-13.00	-24.59	H
7000.01	-32.86	12.33	21.13	-41.66	-13.00	-28.66	H
3500.29	-35.07	12.90	12.56	-34.73	-13.00	-21.73	V
5250.08	-34.28	13.10	16.32	-37.50	-13.00	-24.50	V
7000.01	-32.47	12.33	21.13	-41.27	-13.00	-28.27	V



LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3434.63	-34.68	12.90	12.56	-34.34	-13.00	-21.34	H
5152.63	-35.09	13.10	16.32	-38.31	-13.00	-25.31	H
6870.46	-33.54	12.33	21.13	-42.34	-13.00	-29.34	H
3434.63	-34.93	12.90	12.56	-34.59	-13.00	-21.59	V
5152.63	-34.01	13.10	16.32	-37.23	-13.00	-24.23	V
6870.46	-32.57	12.33	21.13	-41.37	-13.00	-28.37	V
LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3464.71	-33.88	12.90	12.56	-33.54	-13.00	-20.54	H
5196.82	-34.70	13.10	16.32	-37.92	-13.00	-24.92	H
6929.99	-32.66	12.33	21.13	-41.46	-13.00	-28.46	H
3464.71	-35.43	12.90	12.56	-35.09	-13.00	-22.09	V
5196.82	-34.29	13.10	16.32	-37.51	-13.00	-24.51	V
6929.99	-31.86	12.33	21.13	-40.66	-13.00	-27.66	V
LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3495.10	-34.65	12.90	12.56	-34.31	-13.00	-21.31	H
5242.17	-34.24	13.10	16.32	-37.46	-13.00	-24.46	H
6990.27	-32.31	12.33	21.13	-41.11	-13.00	-28.11	H
3495.10	-35.23	12.90	12.56	-34.89	-13.00	-21.89	V
5242.17	-34.64	13.10	16.32	-37.86	-13.00	-24.86	V
6990.27	-31.75	12.33	21.13	-40.55	-13.00	-27.55	V



LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3439.98	-33.99	12.90	12.56	-33.65	-13.00	-20.65	H
5160.33	-34.84	13.10	16.32	-38.06	-13.00	-25.06	H
6880.55	-32.61	12.33	21.13	-41.41	-13.00	-28.41	H
3439.98	-34.66	12.90	12.56	-34.32	-13.00	-21.32	V
5160.33	-34.26	13.10	16.32	-37.48	-13.00	-24.48	V
6880.55	-32.85	12.33	21.13	-41.65	-13.00	-28.65	V
LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3464.72	-34.07	12.90	12.56	-33.73	-13.00	-20.73	H
5196.36	-34.36	13.10	16.32	-37.58	-13.00	-24.58	H
6929.73	-33.55	12.33	21.13	-42.35	-13.00	-29.35	H
3464.72	-35.33	12.90	12.56	-34.99	-13.00	-21.99	V
5196.36	-34.61	13.10	16.32	-37.83	-13.00	-24.83	V
6929.73	-31.79	12.33	21.13	-40.59	-13.00	-27.59	V
LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3490.29	-33.90	12.90	12.56	-33.56	-13.00	-20.56	H
5235.04	-34.76	13.10	16.32	-37.98	-13.00	-24.98	H
6979.37	-32.84	12.33	21.13	-41.64	-13.00	-28.64	H
3490.29	-34.72	12.90	12.56	-34.38	-13.00	-21.38	V
5235.04	-35.21	13.10	16.32	-38.43	-13.00	-25.43	V
6979.37	-32.02	12.33	21.13	-40.82	-13.00	-27.82	V



LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1648.78	-34.58	9.56	9.72	-34.74	-13.00	-21.74	H
2473.49	-34.97	10.50	10.86	-35.33	-13.00	-22.33	H
3298.70	-32.71	12.78	11.57	-31.50	-13.00	-18.50	H
1648.78	-34.68	9.56	9.72	-34.84	-13.00	-21.84	V
2473.49	-33.96	10.50	10.86	-34.32	-13.00	-21.32	V
3298.70	-32.80	12.78	11.57	-31.59	-13.00	-18.59	V
LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1672.74	-34.75	9.56	9.72	-34.91	-13.00	-21.91	H
2508.97	-34.74	10.50	10.86	-35.10	-13.00	-22.10	H
3345.43	-32.73	12.78	11.57	-31.52	-13.00	-18.52	H
1672.74	-34.55	9.56	9.72	-34.71	-13.00	-21.71	V
2508.97	-35.14	10.50	10.86	-35.50	-13.00	-22.50	V
3345.43	-32.65	12.78	11.57	-31.44	-13.00	-18.44	V
LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1696.27	-34.47	9.56	9.72	-34.63	-13.00	-21.63	H
2544.55	-34.30	10.50	10.86	-34.66	-13.00	-21.66	H
3393.09	-32.91	12.78	11.57	-31.70	-13.00	-18.70	H
1696.27	-35.40	9.56	9.72	-35.56	-13.00	-22.56	V
2544.55	-35.13	10.50	10.86	-35.49	-13.00	-22.49	V
3393.09	-32.07	12.78	11.57	-30.86	-13.00	-17.86	V



LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1650.18	-34.37	9.56	9.72	-34.53	-13.00	-21.53	H
2476.13	-34.45	10.50	10.86	-34.81	-13.00	-21.81	H
3301.28	-33.19	12.78	11.57	-31.98	-13.00	-18.98	H
1650.18	-35.69	9.56	9.72	-35.85	-13.00	-22.85	V
2476.13	-34.04	10.50	10.86	-34.40	-13.00	-21.40	V
3301.28	-33.11	12.78	11.57	-31.90	-13.00	-18.90	V
LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1672.20	-34.52	9.56	9.72	-34.68	-13.00	-21.68	H
2508.88	-35.22	10.50	10.86	-35.58	-13.00	-22.58	H
3345.91	-32.85	12.78	11.57	-31.64	-13.00	-18.64	H
1672.20	-35.72	9.56	9.72	-35.88	-13.00	-22.88	V
2508.88	-33.97	10.50	10.86	-34.33	-13.00	-21.33	V
3345.91	-32.65	12.78	11.57	-31.44	-13.00	-18.44	V
LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1694.41	-33.72	9.56	9.72	-33.88	-13.00	-20.88	H
2542.11	-34.12	10.50	10.86	-34.48	-13.00	-21.48	H
3389.46	-32.42	12.78	11.57	-31.21	-13.00	-18.21	H
1694.41	-35.13	9.56	9.72	-35.29	-13.00	-22.29	V
2542.11	-33.88	10.50	10.86	-34.24	-13.00	-21.24	V
3389.46	-32.95	12.78	11.57	-31.74	-13.00	-18.74	V



LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1652.39	-33.81	9.56	9.72	-33.97	-13.00	-20.97	H
2478.73	-35.25	10.50	10.86	-35.61	-13.00	-22.61	H
3305.35	-33.22	12.78	11.57	-32.01	-13.00	-19.01	H
1652.39	-35.94	9.56	9.72	-36.10	-13.00	-23.10	V
2478.73	-34.84	10.50	10.86	-35.20	-13.00	-22.20	V
3305.35	-32.32	12.78	11.57	-31.11	-13.00	-18.11	V
LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1672.47	-34.10	9.56	9.72	-34.26	-13.00	-21.26	H
2508.92	-34.14	10.50	10.86	-34.50	-13.00	-21.50	H
3345.21	-32.48	12.78	11.57	-31.27	-13.00	-18.27	H
1672.47	-34.61	9.56	9.72	-34.77	-13.00	-21.77	V
2508.92	-34.53	10.50	10.86	-34.89	-13.00	-21.89	V
3345.21	-32.88	12.78	11.57	-31.67	-13.00	-18.67	V
LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1692.09	-34.68	9.56	9.72	-34.84	-13.00	-21.84	H
2538.72	-34.36	10.50	10.86	-34.72	-13.00	-21.72	H
3385.83	-32.76	12.78	11.57	-31.55	-13.00	-18.55	H
1692.09	-34.97	9.56	9.72	-35.13	-13.00	-22.13	V
2538.72	-34.64	10.50	10.86	-35.00	-13.00	-22.00	V
3385.83	-31.77	12.78	11.57	-30.56	-13.00	-17.56	V



LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1657.56	-34.09	9.56	9.72	-34.25	-13.00	-21.25	H
2486.40	-34.58	10.50	10.86	-34.94	-13.00	-21.94	H
3315.18	-32.58	12.78	11.57	-31.37	-13.00	-18.37	H
1657.56	-35.90	9.56	9.72	-36.06	-13.00	-23.06	V
2486.40	-34.83	10.50	10.86	-35.19	-13.00	-22.19	V
3315.18	-32.49	12.78	11.57	-31.28	-13.00	-18.28	V
LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1672.30	-34.37	9.56	9.72	-34.53	-13.00	-21.53	H
2508.76	-34.07	10.50	10.86	-34.43	-13.00	-21.43	H
3345.36	-32.44	12.78	11.57	-31.23	-13.00	-18.23	H
1672.30	-35.07	9.56	9.72	-35.23	-13.00	-22.23	V
2508.76	-33.96	10.50	10.86	-34.32	-13.00	-21.32	V
3345.36	-32.33	12.78	11.57	-31.12	-13.00	-18.12	V
LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1687.35	-33.66	9.56	9.72	-33.82	-13.00	-20.82	H
2531.61	-34.99	10.50	10.86	-35.35	-13.00	-22.35	H
3375.44	-33.08	12.78	11.57	-31.87	-13.00	-18.87	H
1687.35	-34.86	9.56	9.72	-35.02	-13.00	-22.02	V
2531.61	-34.03	10.50	10.86	-34.39	-13.00	-21.39	V
3375.44	-33.13	12.78	11.57	-31.92	-13.00	-18.92	V



LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1399.19	-34.17	8.17	9.34	-35.34	-13.00	-22.34	H
2099.06	-35.27	9.53	10.42	-36.16	-13.00	-23.16	H
2798.51	-33.27	11.27	11.12	-33.12	-13.00	-20.12	H
1399.19	-35.57	8.17	9.34	-36.74	-13.00	-23.74	V
2099.06	-35.11	9.53	10.42	-36.00	-13.00	-23.00	V
2798.51	-32.65	11.27	11.12	-32.50	-13.00	-19.50	V
LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1414.54	-34.74	8.17	9.34	-35.91	-13.00	-22.91	H
2122.38	-34.63	9.53	10.42	-35.52	-13.00	-22.52	H
2829.76	-32.70	11.27	11.12	-32.55	-13.00	-19.55	H
1414.54	-35.89	8.17	9.34	-37.06	-13.00	-24.06	V
2122.38	-34.58	9.53	10.42	-35.47	-13.00	-22.47	V
2829.76	-31.82	11.27	11.12	-31.67	-13.00	-18.67	V
LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1430.41	-34.36	8.17	9.34	-35.53	-13.00	-22.53	H
2145.79	-35.39	9.53	10.42	-36.28	-13.00	-23.28	H
2861.03	-32.65	11.27	11.12	-32.50	-13.00	-19.50	H
1430.41	-35.21	8.17	9.34	-36.38	-13.00	-23.38	V
2145.79	-35.20	9.53	10.42	-36.09	-13.00	-23.09	V
2861.03	-31.90	11.27	11.12	-31.75	-13.00	-18.75	V



LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1400.77	-33.61	8.17	9.34	-34.78	-13.00	-21.78	H
2101.19	-34.82	9.53	10.42	-35.71	-13.00	-22.71	H
2801.75	-33.31	11.27	11.12	-33.16	-13.00	-20.16	H
1400.77	-34.96	8.17	9.34	-36.13	-13.00	-23.13	V
2101.19	-34.16	9.53	10.42	-35.05	-13.00	-22.05	V
2801.75	-32.59	11.27	11.12	-32.44	-13.00	-19.44	V
LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1414.66	-33.75	8.17	9.34	-34.92	-13.00	-21.92	H
2122.20	-34.76	9.53	10.42	-35.65	-13.00	-22.65	H
2829.74	-32.47	11.27	11.12	-32.32	-13.00	-19.32	H
1414.66	-35.01	8.17	9.34	-36.18	-13.00	-23.18	V
2122.20	-34.08	9.53	10.42	-34.97	-13.00	-21.97	V
2829.74	-32.41	11.27	11.12	-32.26	-13.00	-19.26	V
LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1428.82	-33.73	8.17	9.34	-34.90	-13.00	-21.90	H
2143.06	-34.29	9.53	10.42	-35.18	-13.00	-22.18	H
2857.97	-32.30	11.27	11.12	-32.15	-13.00	-19.15	H
1428.82	-35.42	8.17	9.34	-36.59	-13.00	-23.59	V
2143.06	-34.21	9.53	10.42	-35.10	-13.00	-22.10	V
2857.97	-33.01	11.27	11.12	-32.86	-13.00	-19.86	V



LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1402.92	-34.50	8.17	9.34	-35.67	-13.00	-22.67	H
2104.41	-34.64	9.53	10.42	-35.53	-13.00	-22.53	H
2805.93	-32.87	11.27	11.12	-32.72	-13.00	-19.72	H
1402.92	-34.65	8.17	9.34	-35.82	-13.00	-22.82	V
2104.41	-34.94	9.53	10.42	-35.83	-13.00	-22.83	V
2805.93	-32.60	11.27	11.12	-32.45	-13.00	-19.45	V
LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1414.58	-33.95	8.17	9.34	-35.12	-13.00	-22.12	H
2122.37	-34.06	9.53	10.42	-34.95	-13.00	-21.95	H
2829.76	-33.42	11.27	11.12	-33.27	-13.00	-20.27	H
1414.58	-34.55	8.17	9.34	-35.72	-13.00	-22.72	V
2122.37	-34.47	9.53	10.42	-35.36	-13.00	-22.36	V
2829.76	-33.05	11.27	11.12	-32.90	-13.00	-19.90	V
LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1426.54	-33.94	8.17	9.34	-35.11	-13.00	-22.11	H
2140.15	-34.35	9.53	10.42	-35.24	-13.00	-22.24	H
2853.91	-32.32	11.27	11.12	-32.17	-13.00	-19.17	H
1426.54	-34.76	8.17	9.34	-35.93	-13.00	-22.93	V
2140.15	-34.31	9.53	10.42	-35.20	-13.00	-22.20	V
2853.91	-33.20	11.27	11.12	-33.05	-13.00	-20.05	V



LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1407.54	-34.19	8.17	9.34	-35.36	-13.00	-22.36	H
2111.70	-34.62	9.53	10.42	-35.51	-13.00	-22.51	H
2815.93	-32.65	11.27	11.12	-32.50	-13.00	-19.50	H
1407.54	-34.85	8.17	9.34	-36.02	-13.00	-23.02	V
2111.70	-35.22	9.53	10.42	-36.11	-13.00	-23.11	V
2815.93	-31.86	11.27	11.12	-31.71	-13.00	-18.71	V
LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1414.62	-34.67	8.17	9.34	-35.84	-13.00	-22.84	H
2122.26	-34.05	9.53	10.42	-34.94	-13.00	-21.94	H
2829.65	-32.42	11.27	11.12	-32.27	-13.00	-19.27	H
1414.62	-34.87	8.17	9.34	-36.04	-13.00	-23.04	V
2122.26	-34.76	9.53	10.42	-35.65	-13.00	-22.65	V
2829.65	-31.72	11.27	11.12	-31.57	-13.00	-18.57	V
LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1421.95	-34.28	8.17	9.34	-35.45	-13.00	-22.45	H
2132.86	-34.36	9.53	10.42	-35.25	-13.00	-22.25	H
2843.69	-32.68	11.27	11.12	-32.53	-13.00	-19.53	H
1421.95	-36.02	8.17	9.34	-37.19	-13.00	-24.19	V
2132.86	-34.07	9.53	10.42	-34.96	-13.00	-21.96	V
2843.69	-31.85	11.27	11.12	-31.70	-13.00	-18.70	V



LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1559.19	-48.24	9.56	9.72	-48.40	-40.00	-8.40	H
2338.10	-46.70	10.50	10.86	-47.06	-13.00	-34.06	H
3118.18	-45.46	12.78	11.57	-44.25	-13.00	-31.25	H
1559.19	-48.02	9.56	9.72	-48.18	-40.00	-8.18	V
2338.10	-46.90	10.50	10.86	-47.26	-13.00	-34.26	V
3118.18	-46.10	12.78	11.57	-44.89	-13.00	-31.89	V
LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1564.28	-48.94	9.56	9.72	-49.10	-40.00	-9.10	H
2345.71	-47.23	10.50	10.86	-47.59	-13.00	-34.59	H
3127.82	-46.15	12.78	11.57	-44.94	-13.00	-31.94	H
1564.28	-48.34	9.56	9.72	-48.50	-40.00	-8.50	V
2345.71	-46.93	10.50	10.86	-47.29	-13.00	-34.29	V
3127.82	-46.11	12.78	11.57	-44.90	-13.00	-31.90	V
LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1568.97	-47.62	9.56	9.72	-47.78	-40.00	-7.78	H
2353.14	-46.12	10.50	10.86	-46.48	-13.00	-33.48	H
3138.43	-46.60	12.78	11.57	-45.39	-13.00	-32.39	H
1568.97	-47.73	9.56	9.72	-47.89	-40.00	-7.89	V
2353.14	-46.26	10.50	10.86	-46.62	-13.00	-33.62	V
3138.43	-46.65	12.78	11.57	-45.44	-13.00	-32.44	V

LTE Band 13 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1563.88	-47.78	9.56	9.72	-47.94	-40.00	-7.94	H
2345.95	-47.23	10.50	10.86	-47.59	-13.00	-34.59	H
3127.97	-46.61	12.78	11.57	-45.40	-13.00	-32.40	H
1563.88	-48.31	9.56	9.72	-48.47	-40.00	-8.47	V
2345.95	-47.21	10.50	10.86	-47.57	-13.00	-34.57	V
3127.97	-45.50	12.78	11.57	-44.29	-13.00	-31.29	V



LTE Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3420.92	-34.38	12.90	12.56	-34.04	-13.00	-21.04	H
5131.76	-34.87	13.10	16.32	-38.09	-13.00	-25.09	H
6842.41	-32.80	12.33	21.13	-41.60	-13.00	-28.60	H
3420.92	-35.28	12.90	12.56	-34.94	-13.00	-21.94	V
5131.76	-34.28	13.10	16.32	-37.50	-13.00	-24.50	V
6842.41	-31.80	12.33	21.13	-40.60	-13.00	-27.60	V
LTE Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3464.98	-34.91	12.90	12.56	-34.57	-13.00	-21.57	H
5196.83	-34.39	13.10	16.32	-37.61	-13.00	-24.61	H
6930.12	-32.79	12.33	21.13	-41.59	-13.00	-28.59	H
3464.98	-35.64	12.90	12.56	-35.30	-13.00	-22.30	V
5196.83	-34.59	13.10	16.32	-37.81	-13.00	-24.81	V
6930.12	-33.03	12.33	21.13	-41.83	-13.00	-28.83	V
LTE Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3508.32	-34.78	12.90	12.56	-34.44	-13.00	-21.44	H
5262.21	-35.39	13.10	16.32	-38.61	-13.00	-25.61	H
7015.36	-33.46	12.33	21.13	-42.26	-13.00	-29.26	H
3508.32	-35.90	12.90	12.56	-35.56	-13.00	-22.56	V
5262.21	-34.87	13.10	16.32	-38.09	-13.00	-25.09	V
7015.36	-32.47	12.33	21.13	-41.27	-13.00	-28.27	V



LTE Band 66 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3423.62	-33.45	12.90	12.56	-33.11	-13.00	-20.11	H
5136.05	-34.80	13.10	16.32	-38.02	-13.00	-25.02	H
6848.56	-32.30	12.33	21.13	-41.10	-13.00	-28.10	H
3423.62	-35.41	12.90	12.56	-35.07	-13.00	-22.07	V
5136.05	-34.31	13.10	16.32	-37.53	-13.00	-24.53	V
6848.56	-31.84	12.33	21.13	-40.64	-13.00	-27.64	V
LTE Band 66 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3464.55	-34.35	12.90	12.56	-34.01	-13.00	-21.01	H
5196.85	-34.34	13.10	16.32	-37.56	-13.00	-24.56	H
6930.07	-32.35	12.33	21.13	-41.15	-13.00	-28.15	H
3464.55	-35.07	12.90	12.56	-34.73	-13.00	-21.73	V
5196.85	-34.60	13.10	16.32	-37.82	-13.00	-24.82	V
6930.07	-32.84	12.33	21.13	-41.64	-13.00	-28.64	V
LTE Band 66 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3505.87	-34.93	12.90	12.56	-34.59	-13.00	-21.59	H
5261.93	-34.61	13.10	16.32	-37.83	-13.00	-24.83	H
7012.59	-32.27	12.33	21.13	-41.07	-13.00	-28.07	H
3505.87	-34.74	12.90	12.56	-34.40	-13.00	-21.40	V
5261.93	-33.96	13.10	16.32	-37.18	-13.00	-24.18	V
7012.59	-32.76	12.33	21.13	-41.56	-13.00	-28.56	V



LTE Band 66 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3424.92	-34.40	12.90	12.56	-34.06	-13.00	-21.06	H
5137.12	-34.89	13.10	16.32	-38.11	-13.00	-25.11	H
6849.68	-32.70	12.33	21.13	-41.50	-13.00	-28.50	H
3424.92	-35.03	12.90	12.56	-34.69	-13.00	-21.69	V
5137.12	-34.76	13.10	16.32	-37.98	-13.00	-24.98	V
6849.68	-31.88	12.33	21.13	-40.68	-13.00	-27.68	V
LTE Band 66 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3464.43	-34.50	12.90	12.56	-34.16	-13.00	-21.16	H
5196.56	-34.98	13.10	16.32	-38.20	-13.00	-25.20	H
6929.96	-32.97	12.33	21.13	-41.77	-13.00	-28.77	H
3464.43	-35.37	12.90	12.56	-35.03	-13.00	-22.03	V
5196.56	-34.93	13.10	16.32	-38.15	-13.00	-25.15	V
6929.96	-32.91	12.33	21.13	-41.71	-13.00	-28.71	V
LTE Band 66 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3504.86	-33.76	12.90	12.56	-33.42	-13.00	-20.42	H
5256.92	-34.85	13.10	16.32	-38.07	-13.00	-25.07	H
7010.07	-32.48	12.33	21.13	-41.28	-13.00	-28.28	H
3504.86	-35.07	12.90	12.56	-34.73	-13.00	-21.73	V
5256.92	-35.01	13.10	16.32	-38.23	-13.00	-25.23	V
7010.07	-33.02	12.33	21.13	-41.82	-13.00	-28.82	V



LTE Band 66 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3430.07	-34.09	12.90	12.56	-33.75	-13.00	-20.75	H
5145.18	-34.89	13.10	16.32	-38.11	-13.00	-25.11	H
6860.48	-33.01	12.33	21.13	-41.81	-13.00	-28.81	H
3430.07	-34.55	12.90	12.56	-34.21	-13.00	-21.21	V
5145.18	-35.17	13.10	16.32	-38.39	-13.00	-25.39	V
6860.48	-31.85	12.33	21.13	-40.65	-13.00	-27.65	V
LTE Band 66 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3464.41	-34.44	12.90	12.56	-34.10	-13.00	-21.10	H
5196.67	-34.84	13.10	16.32	-38.06	-13.00	-25.06	H
6929.59	-33.04	12.33	21.13	-41.84	-13.00	-28.84	H
3464.41	-35.47	12.90	12.56	-35.13	-13.00	-22.13	V
5196.67	-33.77	13.10	16.32	-36.99	-13.00	-23.99	V
6929.59	-32.81	12.33	21.13	-41.61	-13.00	-28.61	V
LTE Band 66 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3500.27	-34.44	12.90	12.56	-34.10	-13.00	-21.10	H
5250.38	-34.34	13.10	16.32	-37.56	-13.00	-24.56	H
6999.97	-32.83	12.33	21.13	-41.63	-13.00	-28.63	H
3500.27	-35.97	12.90	12.56	-35.63	-13.00	-22.63	V
5250.38	-34.19	13.10	16.32	-37.41	-13.00	-24.41	V
6999.97	-33.13	12.33	21.13	-41.93	-13.00	-28.93	V



LTE Band 66 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3434.89	-34.16	12.90	12.56	-33.82	-13.00	-20.82	H
5152.63	-34.86	13.10	16.32	-38.08	-13.00	-25.08	H
6870.69	-33.11	12.33	21.13	-41.91	-13.00	-28.91	H
3434.89	-35.25	12.90	12.56	-34.91	-13.00	-21.91	V
5152.63	-35.02	13.10	16.32	-38.24	-13.00	-25.24	V
6870.69	-32.11	12.33	21.13	-40.91	-13.00	-27.91	V
LTE Band 66 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3464.84	-33.51	12.90	12.56	-33.17	-13.00	-20.17	H
5196.52	-35.25	13.10	16.32	-38.47	-13.00	-25.47	H
6929.81	-32.81	12.33	21.13	-41.61	-13.00	-28.61	H
3464.84	-35.82	12.90	12.56	-35.48	-13.00	-22.48	V
5196.52	-34.38	13.10	16.32	-37.60	-13.00	-24.60	V
6929.81	-31.81	12.33	21.13	-40.61	-13.00	-27.61	V
LTE Band 66 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3495.56	-34.93	12.90	12.56	-34.59	-13.00	-21.59	H
5242.10	-34.39	13.10	16.32	-37.61	-13.00	-24.61	H
6990.11	-33.43	12.33	21.13	-42.23	-13.00	-29.23	H
3495.56	-35.68	12.90	12.56	-35.34	-13.00	-22.34	V
5242.10	-33.97	13.10	16.32	-37.19	-13.00	-24.19	V
6990.11	-32.93	12.33	21.13	-41.73	-13.00	-28.73	V



LTE Band 66 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3440.05	-33.57	12.90	12.56	-33.23	-13.00	-20.23	H
5160.12	-34.78	13.10	16.32	-38.00	-13.00	-25.00	H
6880.84	-32.41	12.33	21.13	-41.21	-13.00	-28.21	H
3440.05	-35.22	12.90	12.56	-34.88	-13.00	-21.88	V
5160.12	-34.46	13.10	16.32	-37.68	-13.00	-24.68	V
6880.84	-32.15	12.33	21.13	-40.95	-13.00	-27.95	V
LTE Band 66 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3464.69	-33.76	12.90	12.56	-33.42	-13.00	-20.42	H
5196.64	-34.13	13.10	16.32	-37.35	-13.00	-24.35	H
6929.71	-33.12	12.33	21.13	-41.92	-13.00	-28.92	H
3464.69	-36.02	12.90	12.56	-35.68	-13.00	-22.68	V
5196.64	-34.75	13.10	16.32	-37.97	-13.00	-24.97	V
6929.71	-33.04	12.33	21.13	-41.84	-13.00	-28.84	V
LTE Band 66 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3490.40	-34.47	12.90	12.56	-34.13	-13.00	-21.13	H
5235.03	-34.83	13.10	16.32	-38.05	-13.00	-25.05	H
6979.60	-32.31	12.33	21.13	-41.11	-13.00	-28.11	H
3490.40	-35.41	12.90	12.56	-35.07	-13.00	-22.07	V
5235.03	-33.98	13.10	16.32	-37.20	-13.00	-24.20	V
6979.60	-32.28	12.33	21.13	-41.08	-13.00	-28.08	V

APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※END OF THE REPORT※※※※