

Radio Test Report

Report No.: STS2312337W02

Issued for

PLUM Sp. z o.o.

ul. Wspolna 19, Ignatki, 16-001 Kleosin, Poland

Product Name: MacBAT 5

Brand Name: 

Model Name: 4GC14A0

Series Model(s): N/A

FCC ID: 2BECF-4GC14A0

Test Standards: 47 CFR Part 2, 22, 24, 27

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: PLUM Sp. z o.o.
Address: ul. Wspolna 19, Ignatki, 16-001 Kleosin, Poland
Manufacturer's Name: PLUM Sp. z o.o.
Address: ul. Wspolna 19, Ignatki, 16-001 Kleosin, Poland

Product Description

Product Name: MacBAT 5
Brand Name: 
Model Name: 4GC14A0
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.
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.

Date of Test

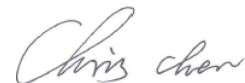
Date of receipt of test item: 11 Dec. 2023
Date (s) of performance of tests : 11 Dec. 2023 ~ 29 Dec. 2023
Date of Issue: 29 Dec. 2023
Test Result: Pass

Testing Engineer :



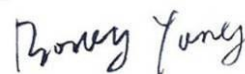
(Lenon Hou)

Technical Manager :



(Chris Chen)

Authorized Signatory :



(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	29 Dec. 2023	STS2312337W02	ALL	Initial Issue



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(d)	B4, B66	EIRP < 1Watt	
	27.50(h)	B7	EIRP < 2Watt	
Peak-to-Average Ratio	22.913(d)	B5	< 13 dB	PASS
	24.232(d)	B2		
	27.50	B4, B7, 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, B7, B66		
Spurious Emission at Antenna Terminals	2.1051	/	< 43+10log10(P[Watts])	PASS
	22.917	B5		
	24.238(a)	B2		
	27.53(h)	B4, B66		
	27.53(m)	B7	< 55+10log10(P[Watts])	
Band Edge	2.1051	/	Please refer to standard	PASS
	22.917	B5		
	24.238(a)	B2		



	27.53(h)	B4, B66		
	27.53(m)	B7		
Field Strength of Spurious Radiation	2.1053	/	< 43+10log10(P[Watts])	PASS
	22.917	B5		
	24.238(a)	B2		
	27.53(h)	B4, B66		
	27.53(m)	B7	< 55+10log10(P[Watts])	



1 INTRODUCTION

1.1 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

1.2 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 UCISPR 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	$\pm 0.755\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.874\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.18\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.90\text{dB}$
6	All emissions, radiated >6G	$\pm 5.24\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.19\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.53\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.5\%$
10	Power Spectral Density, conducted	$\pm 1.245\text{dB}$
11	Duty Cycle	$\pm 3.2\%$



2 PRODUCT INFORMATION

Product Name	MacBAT 5
Brand Name	
Model Name	4GC14A0
Series Model(s)	N/A
Model Difference	N/A
Tx Frequency:	GSM850:824-849 MHz GSM900:880-915 MHz GSM1800:1710 ~ 1785 MHz GSM1900:1850-1910 MHz LTE Band 2:1850~1910MHz LTE Band 4:1710~1755MHz LTE Band 5:824~849MHz LTE Band 7:2500-2570MHz LTE Band 66:1710-1780 MHz
Rx Frequency:	GSM850:824-849 MHz GSM900:925 ~ 960 MHz GSM1800:1805 ~ 1880 MHz GSM1900:1850-1910 MHz LTE Band 2:1930 ~1990MHz LTE Band 4:2110~2155MHz LTE Band 5:869~894MHz LTE Band 7:2620-2690MHz LTE Band 66:2110-2200 MHz
Max RF Output Power:	GSM850: 32.82 dBm; GSM1900:26.91 dBm LTE Band 2: 23.61dBm, LTE Band 4: 23.77 dBm LTE Band 5: 23.96 dBm, LTE Band 7: 24.01 dBm LTE Band 66: 24.05 dBm
Modulation Characteristics:	GMSK for GPRS LTE: QPSK /16QAM
SIM Card:	Only support single SIM Card.
Antenna:	PIFA
Antenna gain:	GSM 850/900: 1.2dBi GSM 1800/1900: 5.2dBi LTE Band 5: 1.2dBi LTE Band 2/4/7/66: 5.3dBi
GPRS/EDGE Class:	Multi-Class12
Extreme Vol. Limits:	DC 3.24V~ DC 3.96V(Normal: DC 3.6V)
Extreme Temp. Tolerance:	-25°C to 70°C
Rating	Input: 3.6 VDC (MacBAT5 lithium battery) 5.7 VDC (MacBAT5 external power) 12.0 VDC (INT-S3 interface)
Hardware version number:	H1.8.0
Software version number:	F01
** Note: The High Voltage DC 3.96V and Low Voltage DC 3.24V 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.

2.1 EMISSION DESIGNATOR

Mode	Emission Designator (99%OBW)	
GPRS850	239KGXW	
GPRS1900	247KGXW	
LTE Band 2	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M11G7D	1M10W7D
3	2M71G7D	2M72W7D
5	4M51G7D	4M51W7D
10	9M00G7D	\
15	13M5G7D	\
20	18M0G7D	\
LTE Band 4	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M11G7D	1M10W7D
3	2M71G7D	2M70W7D
5	4M52G7D	4M54W7D
10	9M00G7D	\
15	13M5G7D	\
20	18M0G7D	\
LTE Band 5	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M10G7D	1M10W7D
3	2M71G7D	2M70W7D
5	4M53G7D	4M53W7D
10	9M00G7D	\
LTE Band 7	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
5	4M51G7D	4M51W7D
10	8M97G7D	\
15	13M4G7D	\
20	17M9G7D	\
LTE Band 66	Emission Designator	Emission Designator
BW(MHz)	(99%OBW)QPSK	(99%OBW)16QAM
1.4	1M10G7D	1M10W7D
3	2M71G7D	2M70W7D
5	4M51G7D	4M52W7D
10	9M01G7D	\
15	13M5G7D	\
20	18M0G7D	\



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:

	TEST MODES	
	RADIATED TCS	CONDUCTED TCS
BAND		
GSM 850	GSM LINK GPRS/EDGE CLASS 12 LINK	GSM LINK GPRS/EDGE CLASS 12 LINK
GSM 1900	GSM LINK GPRS/EDGE CLASS 12 LINK	GSM LINK GPRS/EDGE CLASS 12 LINK



LTE:

ITEMS	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v			v	v	v	v	v	v	v	v
	7			v	v	v	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak&Avera Ratio	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			v	v	v			v	v	v
	7			v	v	v	v	v	v	v			v	v	v
	66	v	v	v	v	v	v	v	v	v			v	v	v
26dB&99% Bandwidth	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			v	v			v	v	v	v
	7			v	v	v	v	v	v			v	v	v	v
	66	v	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	2	v	v	v	v	v	v	v	v			v	v		v
	4	v	v	v	v	v	v	v	v			v	v		v
	5	v	v	v	v			v	v			v	v		v
	7			v	v	v	v	v	v			v	v		v
	66	v	v	v	v	v	v	v	v			v	v		v
Conducted Spurious Emission	2	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
	5	v	v	v	v			v	v	v		v	v	v	v
	7			v	v	v	v	v	v	v		v	v	v	v
	66	v	v	v	v	v	v	v	v	v		v	v	v	v
Frequency Stability	2				v			v				v		v	
	4				v			v				v		v	
	5				v			v				v		v	
	7				v			v				v		v	
	66				v			v				v		v	
E.R.P.& E.I.R.P.	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			v	v	v	v	v	v	v	v
	7			v	v	v	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	2	v	v	v	v	v	v	v		v			v	v	v
	4	v	v	v	v	v	v	v		v			v	v	v
	5	v	v	v	v			v		v			v	v	v
	7			v	v	v	v	v		v			v	v	v
	12	v	v	v	v			v		v			v	v	v
	66	v	v	v	v	v	v	v		v			v	v	v



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	2023.03.03	2024.03.02
Wireless Communications Test Set	R&S	CMW 500	117239	2023.03.01	2024.02.29
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2023.02.28	2024.02.27
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2023.09.28	2024.09.27
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2023.09.26	2024.09.25
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	2022.09.30	2024.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.24	2025.09.23
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	N/A	N/A
Test SW	EMC Test Software	15.2.0.339			
	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	2023.03.03	2024.03.02
Wireless Communications Test Set	R&S	CMW 500	131428	2023.03.01	2024.02.29
Signal Analyzer	Agilent	N9020A	MY52440124	2023.03.01	2024.02.29
RF Automatic Test System	Maiwei	MW200-SFCB	N/A	N/A	N/A
Temperature & Humidity Test Chamber	Safety test	AG80L	171200018	2023.03.01	2024.02.29
Programmable Power Supply	Agilent	E3642A	MY40002025	2023.09.26	2024.09.25
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:

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

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

where

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

PMeas 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:

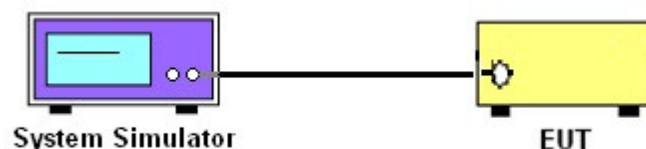
a) $\text{ERP} = \text{EIRP} - 2.15$, where ERP and EIRP are expressed in consistent units.

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

GSM 850							
Mode	Frequency (MHz)	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit (W)	ERP Limit (dBm)	Conclusion
GPRS (GMSK,1-Slot)	824.2	33.57	1.20	32.62	7.00	38.45	PASS
	836.6	33.82	1.20	32.87	7.00	38.45	PASS
	848.8	33.62	1.20	32.67	7.00	38.45	PASS
GPRS (GMSK,2-Slot)	824.2	33.75	1.20	32.80	7.00	38.45	PASS
	836.6	33.79	1.20	32.84	7.00	38.45	PASS
	848.8	31.77	1.20	30.82	7.00	38.45	PASS
GPRS (GMSK,3-Slot)	824.2	29.26	1.20	28.31	7.00	38.45	PASS
	836.6	29.53	1.20	28.58	7.00	38.45	PASS
	848.8	29.48	1.20	28.53	7.00	38.45	PASS
GPRS (GMSK,4-Slot)	824.2	26.94	1.20	25.99	7.00	38.45	PASS
	836.6	27.19	1.20	26.24	7.00	38.45	PASS
	848.8	27.32	1.20	26.37	7.00	38.45	PASS

PCS 1900							
Mode	Frequency (MHz)	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit (W)	EIRP Limit (dBm)	Conclusion
GPRS (GMSK,1-Slot)	1850.2	26.70	5.20	31.90	2.00	33.01	PASS
	1880.0	26.91	5.20	32.11	2.00	33.01	PASS
	1909.8	26.87	5.20	32.07	2.00	33.01	PASS
GPRS (GMSK,2-Slot)	1850.2	24.69	5.20	29.89	2.00	33.01	PASS
	1880.0	24.87	5.20	30.07	2.00	33.01	PASS
	1909.8	24.84	5.20	30.04	2.00	33.01	PASS
GPRS (GMSK,3-Slot)	1850.2	22.56	5.20	27.76	2.00	33.01	PASS
	1880.0	22.86	5.20	28.06	2.00	33.01	PASS
	1909.8	22.84	5.20	28.04	2.00	33.01	PASS
GPRS (GMSK,4-Slot)	1850.2	20.52	5.20	25.72	2.00	33.01	PASS
	1880.0	20.71	5.20	25.91	2.00	33.01	PASS
	1909.8	20.71	5.20	25.91	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 2 /1.4M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
1.4	Lowest	1	0	QPSK	21.85	5.2	27.05	2.00	33.01	PASS
		1	2		22.47	5.2	27.67	2.00	33.01	PASS
		1	5		21.61	5.2	26.81	2.00	33.01	PASS
		3	0		22.16	5.2	27.36	2.00	33.01	PASS
		3	1		22.34	5.2	27.54	2.00	33.01	PASS
		3	2		22.05	5.2	27.25	2.00	33.01	PASS
		6	0		21.11	5.2	26.31	2.00	33.01	PASS
		1	0	16QAM	20.65	5.2	25.85	2.00	33.01	PASS
		1	2		21.39	5.2	26.59	2.00	33.01	PASS
		1	5		20.56	5.2	25.76	2.00	33.01	PASS
		3	0		21.25	5.2	26.45	2.00	33.01	PASS
		3	1		21.43	5.2	26.63	2.00	33.01	PASS
		3	2		21.18	5.2	26.38	2.00	33.01	PASS
		6	0		20.31	5.2	25.51	2.00	33.01	PASS
	Middle	1	0	QPSK	22.63	5.2	27.83	2.00	33.01	PASS
		1	2		23.33	5.2	28.53	2.00	33.01	PASS
		1	5		22.55	5.2	27.75	2.00	33.01	PASS
		3	0		21.64	5.2	26.84	2.00	33.01	PASS
		3	1		21.6	5.2	26.80	2.00	33.01	PASS
		3	2		21.51	5.2	26.71	2.00	33.01	PASS
		6	0		21.24	5.2	26.44	2.00	33.01	PASS
		1	0	16QAM	21.72	5.2	26.92	2.00	33.01	PASS
		1	2		21.94	5.2	27.14	2.00	33.01	PASS
		1	5		20.52	5.2	25.72	2.00	33.01	PASS
		3	0		20.67	5.2	25.87	2.00	33.01	PASS
		3	1		22.15	5.2	27.35	2.00	33.01	PASS
		3	2		22.26	5.2	27.46	2.00	33.01	PASS
		6	0		21.36	5.2	26.56	2.00	33.01	PASS
	Highest	1	0	QPSK	21.59	5.2	26.79	2.00	33.01	PASS
		1	2		22.24	5.2	27.44	2.00	33.01	PASS
		1	5		21.37	5.2	26.57	2.00	33.01	PASS
		3	0		22.14	5.2	27.34	2.00	33.01	PASS
		3	1		22.3	5.2	27.50	2.00	33.01	PASS
		3	2		21.97	5.2	27.17	2.00	33.01	PASS
		6	0		21.05	5.2	26.25	2.00	33.01	PASS
		1	0	16QAM	20.72	5.2	25.92	2.00	33.01	PASS
		1	2		21.34	5.2	26.54	2.00	33.01	PASS
		1	5		20.43	5.2	25.63	2.00	33.01	PASS
		3	0		21.15	5.2	26.35	2.00	33.01	PASS
		3	1		21.32	5.2	26.52	2.00	33.01	PASS
		3	2		21	5.2	26.20	2.00	33.01	PASS
		6	0		20.21	5.2	25.41	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 2 /3M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
3	Lowest	1	0	QPSK	21.9	5.2	27.10	2.00	33.01	PASS
		1	7		22.68	5.2	27.88	2.00	33.01	PASS
		1	14		20.86	5.2	26.06	2.00	33.01	PASS
		8	0		23.13	5.2	28.33	2.00	33.01	PASS
		8	4		23.52	5.2	28.72	2.00	33.01	PASS
		8	7		22.31	5.2	27.51	2.00	33.01	PASS
		15	0		22.66	5.2	27.86	2.00	33.01	PASS
		1	0	16QAM	22.4	5.2	27.60	2.00	33.01	PASS
		1	7		21.55	5.2	26.75	2.00	33.01	PASS
		1	14		22.11	5.2	27.31	2.00	33.01	PASS
		8	0		22.35	5.2	27.55	2.00	33.01	PASS
		8	4		22.67	5.2	27.87	2.00	33.01	PASS
		8	7		20.22	5.2	25.42	2.00	33.01	PASS
		15	0		20.2	5.2	25.40	2.00	33.01	PASS
	Middle	1	0	QPSK	22.5	5.2	27.70	2.00	33.01	PASS
		1	7		23.2	5.2	28.40	2.00	33.01	PASS
		1	14		21.94	5.2	27.14	2.00	33.01	PASS
		8	0		22.31	5.2	27.51	2.00	33.01	PASS
		8	4		22.61	5.2	27.81	2.00	33.01	PASS
		8	7		22.23	5.2	27.43	2.00	33.01	PASS
		15	0		22.29	5.2	27.49	2.00	33.01	PASS
		1	0	16QAM	21.62	5.2	26.82	2.00	33.01	PASS
		1	7		22.9	5.2	28.10	2.00	33.01	PASS
		1	14		20.98	5.2	26.18	2.00	33.01	PASS
		8	0		21.42	5.2	26.62	2.00	33.01	PASS
		8	4		21.62	5.2	26.82	2.00	33.01	PASS
		8	7		21.25	5.2	26.45	2.00	33.01	PASS
		15	0		21.16	5.2	26.36	2.00	33.01	PASS
	Highest	1	0	QPSK	22.39	5.2	27.59	2.00	33.01	PASS
		1	7		22.83	5.2	28.03	2.00	33.01	PASS
		1	14		20.88	5.2	26.08	2.00	33.01	PASS
		8	0		21.5	5.2	26.70	2.00	33.01	PASS
		8	4		21.57	5.2	26.77	2.00	33.01	PASS
		8	7		21.51	5.2	26.71	2.00	33.01	PASS
		15	0		21.67	5.2	26.87	2.00	33.01	PASS
		1	0	16QAM	21.44	5.2	26.64	2.00	33.01	PASS
		1	7		20.59	5.2	25.79	2.00	33.01	PASS
		1	14		22.25	5.2	27.45	2.00	33.01	PASS
		8	0		23.24	5.2	28.44	2.00	33.01	PASS
		8	4		21.78	5.2	26.98	2.00	33.01	PASS
		8	7		21.93	5.2	27.13	2.00	33.01	PASS
		15	0		22.19	5.2	27.39	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 2 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	21.84	5.2	27.04	2.00	33.01	PASS
		1	12		22.17	5.2	27.37	2.00	33.01	PASS
		1	24		21.79	5.2	26.99	2.00	33.01	PASS
		12	0		21.22	5.2	26.42	2.00	33.01	PASS
		12	6		21.14	5.2	26.34	2.00	33.01	PASS
		12	11		20.93	5.2	26.13	2.00	33.01	PASS
		25	0		21.16	5.2	26.36	2.00	33.01	PASS
		1	0	16QAM	20.87	5.2	26.07	2.00	33.01	PASS
		1	12		21.19	5.2	26.39	2.00	33.01	PASS
		1	24		20.9	5.2	26.10	2.00	33.01	PASS
		12	0		20.36	5.2	25.56	2.00	33.01	PASS
		12	6		20.28	5.2	25.48	2.00	33.01	PASS
		12	11		20.08	5.2	25.28	2.00	33.01	PASS
		25	0		20.13	5.2	25.33	2.00	33.01	PASS
	Middle	1	0	QPSK	22.58	5.2	27.78	2.00	33.01	PASS
		1	12		23.08	5.2	28.28	2.00	33.01	PASS
		1	24		22.69	5.2	27.89	2.00	33.01	PASS
		12	0		22.31	5.2	27.51	2.00	33.01	PASS
		12	6		22.23	5.2	27.43	2.00	33.01	PASS
		12	11		21.98	5.2	27.18	2.00	33.01	PASS
		25	0		21.6	5.2	26.80	2.00	33.01	PASS
		1	0	16QAM	21.84	5.2	27.04	2.00	33.01	PASS
		1	12		21.42	5.2	26.62	2.00	33.01	PASS
		1	24		22.36	5.2	27.56	2.00	33.01	PASS
		12	0		20.95	5.2	26.15	2.00	33.01	PASS
		12	6		20.92	5.2	26.12	2.00	33.01	PASS
		12	11		21.2	5.2	26.40	2.00	33.01	PASS
		25	0		21.08	5.2	26.28	2.00	33.01	PASS
	Highest	1	0	QPSK	22.42	5.2	27.62	2.00	33.01	PASS
		1	12		22.54	5.2	27.74	2.00	33.01	PASS
		1	24		21.85	5.2	27.05	2.00	33.01	PASS
		12	0		21.92	5.2	27.12	2.00	33.01	PASS
		12	6		21.78	5.2	26.98	2.00	33.01	PASS
		12	11		21.31	5.2	26.51	2.00	33.01	PASS
		25	0		21.68	5.2	26.88	2.00	33.01	PASS
		1	0	16QAM	21.68	5.2	26.88	2.00	33.01	PASS
		1	12		21.92	5.2	27.12	2.00	33.01	PASS
		1	24		21.21	5.2	26.41	2.00	33.01	PASS
		12	0		20.96	5.2	26.16	2.00	33.01	PASS
		12	6		20.7	5.2	25.90	2.00	33.01	PASS
		12	11		20.24	5.2	25.44	2.00	33.01	PASS
		25	0		20.65	5.2	25.85	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 2 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
10	Lowest	1	0	QPSK	21.56	5.2	26.76	2.00	33.01	PASS
		1	24		22.27	5.2	27.47	2.00	33.01	PASS
		1	49		21.51	5.2	26.71	2.00	33.01	PASS
		25	0		21.38	5.2	26.58	2.00	33.01	PASS
		25	12		21.29	5.2	26.49	2.00	33.01	PASS
		25	24		22.79	5.2	27.99	2.00	33.01	PASS
		50	0		23.46	5.2	28.66	2.00	33.01	PASS
	Middle	1	0	QPSK	22.37	5.2	27.57	2.00	33.01	PASS
		1	24		22.61	5.2	27.81	2.00	33.01	PASS
		1	49		22.43	5.2	27.63	2.00	33.01	PASS
		25	0		21.97	5.2	27.17	2.00	33.01	PASS
		25	12		22.29	5.2	27.49	2.00	33.01	PASS
		25	24		21.9	5.2	27.10	2.00	33.01	PASS
		50	0		22.61	5.2	27.81	2.00	33.01	PASS
	Highest	1	0	QPSK	21.44	5.2	26.64	2.00	33.01	PASS
		1	24		21.55	5.2	26.75	2.00	33.01	PASS
		1	49		21.37	5.2	26.57	2.00	33.01	PASS
		25	0		21.01	5.2	26.21	2.00	33.01	PASS
		25	12		22.2	5.2	27.40	2.00	33.01	PASS
		25	24		23.05	5.2	28.25	2.00	33.01	PASS
		50	0		21.46	5.2	26.66	2.00	33.01	PASS

Radiated Power (EIRP) for LTE Band 2 /15M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
15	Lowest	1	0	QPSK	22.32	5.2	27.52	2.00	33.01	PASS
		1	37		22.21	5.2	27.41	2.00	33.01	PASS
		1	74		22.19	5.2	27.39	2.00	33.01	PASS
		36	0		21.09	5.2	26.29	2.00	33.01	PASS
		36	18		21.04	5.2	26.24	2.00	33.01	PASS
		36	39		21.33	5.2	26.53	2.00	33.01	PASS
		75	0		21.41	5.2	26.61	2.00	33.01	PASS
	Middle	1	0	QPSK	21.41	5.2	26.61	2.00	33.01	PASS
		1	37		21.42	5.2	26.62	2.00	33.01	PASS
		1	74		21.41	5.2	26.61	2.00	33.01	PASS
		36	0		20.12	5.2	25.32	2.00	33.01	PASS
		36	18		20.1	5.2	25.30	2.00	33.01	PASS
		36	39		22.52	5.2	27.72	2.00	33.01	PASS
		75	0		23.28	5.2	28.48	2.00	33.01	PASS
	Highest	1	0	QPSK	23.27	5.2	28.47	2.00	33.01	PASS
		1	37		22.67	5.2	27.87	2.00	33.01	PASS
		1	74		22.65	5.2	27.85	2.00	33.01	PASS
		36	0		22.44	5.2	27.64	2.00	33.01	PASS
		36	18		21.74	5.2	26.94	2.00	33.01	PASS
		36	39		22.2	5.2	27.40	2.00	33.01	PASS
		75	0		22.54	2	24.54	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 2 /20M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
20	Lowest	1	0	QPSK	22.48	5.2	27.68	2.00	33.01	PASS
		1	49		21.9	5.2	27.10	2.00	33.01	PASS
		1	99		21.7	5.2	26.90	2.00	33.01	PASS
		50	0		21.5	5.2	26.70	2.00	33.01	PASS
		50	24		23.61	5.2	28.81	2.00	33.01	PASS
		50	49		22.59	5.2	27.79	2.00	33.01	PASS
		100	0		23.1	5.2	28.30	2.00	33.01	PASS
	Middle	1	0	QPSK	22.04	5.2	27.24	2.00	33.01	PASS
		1	49		22.22	5.2	27.42	2.00	33.01	PASS
		1	99		22.28	5.2	27.48	2.00	33.01	PASS
		50	0		21.6	5.2	26.80	2.00	33.01	PASS
		50	24		21.92	5.2	27.12	2.00	33.01	PASS
		50	49		21.71	5.2	26.91	2.00	33.01	PASS
		100	0		22.36	5.2	27.56	2.00	33.01	PASS
	Highest	1	0	QPSK	21.27	5.2	26.47	2.00	33.01	PASS
		1	49		21.26	5.2	26.46	2.00	33.01	PASS
		1	99		21.37	5.2	26.57	2.00	33.01	PASS
		50	0		20.59	5.2	25.79	2.00	33.01	PASS
		50	24		22.2	5.2	27.40	2.00	33.01	PASS
		50	49		22.6	5.2	27.80	2.00	33.01	PASS
		100	0		22.75	5.2	27.95	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 4 /1.4M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
1.4	Lowest	1	0	QPSK	22.75	5.2	27.95	1.00	30.00	PASS
		1	2		23.37	5.2	28.57	1.00	30.00	PASS
		1	5		22.53	5.2	27.73	1.00	30.00	PASS
		3	0		23.04	5.2	28.24	1.00	30.00	PASS
		3	1		23.23	5.2	28.43	1.00	30.00	PASS
		3	2		23.08	5.2	28.28	1.00	30.00	PASS
		6	0		22.11	5.2	27.31	1.00	30.00	PASS
		1	0	16QAM	21.52	5.2	26.72	1.00	30.00	PASS
		1	2		22.27	5.2	27.47	1.00	30.00	PASS
		1	5		21.46	5.2	26.66	1.00	30.00	PASS
		3	0		22.12	5.2	27.32	1.00	30.00	PASS
		3	1		22.32	5.2	27.52	1.00	30.00	PASS
		3	2		22.09	5.2	27.29	1.00	30.00	PASS
		6	0		21.21	5.2	26.41	1.00	30.00	PASS
	Middle	1	0	QPSK	22.28	5.2	27.48	1.00	30.00	PASS
		1	2		23.14	5.2	28.34	1.00	30.00	PASS
		1	5		22.52	5.2	27.72	1.00	30.00	PASS
		3	0		23.13	5.2	28.33	1.00	30.00	PASS
		3	1		23.18	5.2	28.38	1.00	30.00	PASS
		3	2		23.08	5.2	28.28	1.00	30.00	PASS
		6	0		21.98	5.2	27.18	1.00	30.00	PASS
		1	0	16QAM	21.29	5.2	26.49	1.00	30.00	PASS
		1	2		22.52	5.2	27.72	1.00	30.00	PASS
		1	5		21.7	5.2	26.90	1.00	30.00	PASS
		3	0		22.35	5.2	27.55	1.00	30.00	PASS
		3	1		22.58	5.2	27.78	1.00	30.00	PASS
		3	2		22.38	5.2	27.58	1.00	30.00	PASS
		6	0		21.4	5.2	26.60	1.00	30.00	PASS
	Highest	1	0	QPSK	22.63	5.2	27.83	1.00	30.00	PASS
		1	2		23.41	5.2	28.61	1.00	30.00	PASS
		1	5		22.7	5.2	27.90	1.00	30.00	PASS
		3	0		23.2	5.2	28.40	1.00	30.00	PASS
		3	1		23.37	5.2	28.57	1.00	30.00	PASS
		3	2		23.06	5.2	28.26	1.00	30.00	PASS
		6	0		22.13	5.2	27.33	1.00	30.00	PASS
		1	0	16QAM	21.76	5.2	26.96	1.00	30.00	PASS
		1	2		22.42	5.2	27.62	1.00	30.00	PASS
		1	5		21.66	5.2	26.86	1.00	30.00	PASS
		3	0		22.25	5.2	27.45	1.00	30.00	PASS
		3	1		22.53	5.2	27.73	1.00	30.00	PASS
		3	2		22.21	5.2	27.41	1.00	30.00	PASS
		6	0		21.42	5.2	26.62	1.00	30.00	PASS



Radiated Power (EIRP) for LTE Band 4 /3M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
3	Lowest	1	0	QPSK	22.59	5.2	27.79	1.00	30.00	PASS
		1	7		23.67	5.2	28.87	1.00	30.00	PASS
		1	14		21.96	5.2	27.16	1.00	30.00	PASS
		8	0		22.21	5.2	27.41	1.00	30.00	PASS
		8	4		22.4	5.2	27.60	1.00	30.00	PASS
		8	7		22.05	5.2	27.25	1.00	30.00	PASS
		15	0		22.2	5.2	27.40	1.00	30.00	PASS
		1	0	16QAM	21.85	5.2	27.05	1.00	30.00	PASS
		1	7		22.96	5.2	28.16	1.00	30.00	PASS
		1	14		21.12	5.2	26.32	1.00	30.00	PASS
		8	0		21.25	5.2	26.45	1.00	30.00	PASS
		8	4		21.47	5.2	26.67	1.00	30.00	PASS
		8	7		21.16	5.2	26.36	1.00	30.00	PASS
		15	0		21.07	5.2	26.27	1.00	30.00	PASS
	Middle	1	0	QPSK	22.66	5.2	27.86	1.00	30.00	PASS
		1	7		23.65	5.2	28.85	1.00	30.00	PASS
		1	14		22.41	5.2	27.61	1.00	30.00	PASS
		8	0		22.38	5.2	27.58	1.00	30.00	PASS
		8	4		22.68	5.2	27.88	1.00	30.00	PASS
		8	7		22.43	5.2	27.63	1.00	30.00	PASS
		15	0		22.37	5.2	27.57	1.00	30.00	PASS
		1	0	16QAM	21.76	5.2	26.96	1.00	30.00	PASS
		1	7		23.22	5.2	28.42	1.00	30.00	PASS
		1	14		21.61	5.2	26.81	1.00	30.00	PASS
		8	0		21.41	5.2	26.61	1.00	30.00	PASS
		8	4		21.71	5.2	26.91	1.00	30.00	PASS
		8	7		21.51	5.2	26.71	1.00	30.00	PASS
		15	0		21.32	5.2	26.52	1.00	30.00	PASS
	Highest	1	0	QPSK	22.44	5.2	27.64	1.00	30.00	PASS
		1	7		23.76	5.2	28.96	1.00	30.00	PASS
		1	14		22.7	5.2	27.90	1.00	30.00	PASS
		8	0		22.59	5.2	27.79	1.00	30.00	PASS
		8	4		22.75	5.2	27.95	1.00	30.00	PASS
		8	7		22.33	5.2	27.53	1.00	30.00	PASS
		15	0		22.43	5.2	27.63	1.00	30.00	PASS
		1	0	16QAM	22.56	5.2	27.76	1.00	30.00	PASS
		1	7		22.33	5.2	27.53	1.00	30.00	PASS
		1	14		21.6	5.2	26.80	1.00	30.00	PASS
		8	0		21.71	5.2	26.91	1.00	30.00	PASS
		8	4		21.43	5.2	26.63	1.00	30.00	PASS
		8	7		21.62	5.2	26.82	1.00	30.00	PASS
		15	0		22.16	5.2	27.36	1.00	30.00	PASS



Radiated Power (EIRP) for LTE Band 4 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	22.68	5.2	27.88	1.00	30.00	PASS
		1	12		23.1	5.2	28.30	1.00	30.00	PASS
		1	24		21.78	5.2	26.98	1.00	30.00	PASS
		12	0		22.18	5.2	27.38	1.00	30.00	PASS
		12	6		22.13	5.2	27.33	1.00	30.00	PASS
		12	11		22.03	5.2	27.23	1.00	30.00	PASS
		25	0		22.14	5.2	27.34	1.00	30.00	PASS
		1	0	16QAM	22.05	5.2	27.25	1.00	30.00	PASS
		1	12		22.44	5.2	27.64	1.00	30.00	PASS
		1	24		21.1	5.2	26.30	1.00	30.00	PASS
		12	0		21.2	5.2	26.40	1.00	30.00	PASS
		12	6		21.16	5.2	26.36	1.00	30.00	PASS
		12	11		21.09	5.2	26.29	1.00	30.00	PASS
		25	0		21.23	5.2	26.43	1.00	30.00	PASS
	Middle	1	0	QPSK	22.6	5.2	27.80	1.00	30.00	PASS
		1	12		23.3	5.2	28.50	1.00	30.00	PASS
		1	24		22.41	5.2	27.61	1.00	30.00	PASS
		12	0		22.54	5.2	27.74	1.00	30.00	PASS
		12	6		22.92	5.2	28.12	1.00	30.00	PASS
		12	11		21.62	5.2	26.82	1.00	30.00	PASS
		25	0		22.32	5.2	27.52	1.00	30.00	PASS
		1	0	16QAM	22.23	5.2	27.43	1.00	30.00	PASS
		1	12		21.88	5.2	27.08	1.00	30.00	PASS
		1	24		22.18	5.2	27.38	1.00	30.00	PASS
		12	0		22.14	5.2	27.34	1.00	30.00	PASS
		12	6		21.43	5.2	26.63	1.00	30.00	PASS
		12	11		21.38	5.2	26.58	1.00	30.00	PASS
		25	0		21.4	5.2	26.60	1.00	30.00	PASS
	Highest	1	0	QPSK	22.71	5.2	27.91	1.00	30.00	PASS
		1	12		23.32	5.2	28.52	1.00	30.00	PASS
		1	24		22.73	5.2	27.93	1.00	30.00	PASS
		12	0		22.72	5.2	27.92	1.00	30.00	PASS
		12	6		22.59	5.2	27.79	1.00	30.00	PASS
		12	11		22.3	5.2	27.50	1.00	30.00	PASS
		25	0		22.48	5.2	27.68	1.00	30.00	PASS
		1	0	16QAM	21.87	5.2	27.07	1.00	30.00	PASS
		1	12		22.59	5.2	27.79	1.00	30.00	PASS
		1	24		21.87	5.2	27.07	1.00	30.00	PASS
		12	0		21.86	5.2	27.06	1.00	30.00	PASS
		12	6		21.72	5.2	26.92	1.00	30.00	PASS
		12	11		21.46	5.2	26.66	1.00	30.00	PASS
		25	0		21.6	5.2	26.80	1.00	30.00	PASS



Radiated Power (EIRP) for LTE Band 4 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
10	Lowest	1	0	QPSK	22.48	5.2	27.68	1.00	30.00	PASS
		1	24		23.19	5.2	28.39	1.00	30.00	PASS
		1	49		20.89	5.2	26.09	1.00	30.00	PASS
		25	0		20.7	5.2	25.90	1.00	30.00	PASS
		25	12		20.73	5.2	25.93	1.00	30.00	PASS
		25	24		22.14	5.2	27.34	1.00	30.00	PASS
		50	0		23.56	5.2	28.76	1.00	30.00	PASS
	Middle	1	0	QPSK	22.31	5.2	27.51	1.00	30.00	PASS
		1	24		21.71	5.2	26.91	1.00	30.00	PASS
		1	49		22.12	5.2	27.32	1.00	30.00	PASS
		25	0		22.65	5.2	27.85	1.00	30.00	PASS
		25	12		22.48	5.2	27.68	1.00	30.00	PASS
		25	24		21.24	5.2	26.44	1.00	30.00	PASS
		50	0		22.67	5.2	27.87	1.00	30.00	PASS
	Highest	1	0	QPSK	21.37	5.2	26.57	1.00	30.00	PASS
		1	24		20.74	5.2	25.94	1.00	30.00	PASS
		1	49		21.05	5.2	26.25	1.00	30.00	PASS
		25	0		21.28	5.2	26.48	1.00	30.00	PASS
		25	12		22.79	5.2	27.99	1.00	30.00	PASS
		25	24		23.45	5.2	28.65	1.00	30.00	PASS
		50	0		22.44	5.2	27.64	1.00	30.00	PASS

Radiated Power (EIRP) for LTE Band 4 /15M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
15	Lowest	1	0	QPSK	23.34	5.2	28.54	1.00	30.00	PASS
		1	37		22.8	5.2	28.00	1.00	30.00	PASS
		1	74		22.42	5.2	27.62	1.00	30.00	PASS
		36	0		20.54	5.2	25.74	1.00	30.00	PASS
		36	18		20.98	5.2	26.18	1.00	30.00	PASS
		36	39		22.12	5.2	27.32	1.00	30.00	PASS
		75	0		23.5	5.2	28.70	1.00	30.00	PASS
	Middle	1	0	QPSK	22.99	5.2	28.19	1.00	30.00	PASS
		1	37		22.08	5.2	27.28	1.00	30.00	PASS
		1	74		22.6	5.2	27.80	1.00	30.00	PASS
		36	0		22.58	5.2	27.78	1.00	30.00	PASS
		36	18		22.45	5.2	27.65	1.00	30.00	PASS
		36	39		21.2	5.2	26.40	1.00	30.00	PASS
		75	0		22.51	5.2	27.71	1.00	30.00	PASS
	Highest	1	0	QPSK	23.33	5.2	28.53	1.00	30.00	PASS
		1	37		23.05	5.2	28.25	1.00	30.00	PASS
		1	74		22.44	5.2	27.64	1.00	30.00	PASS
		36	0		22.65	5.2	27.85	1.00	30.00	PASS
		36	18		22.36	5.2	27.56	1.00	30.00	PASS
		36	39		22.54	5.2	27.74	1.00	30.00	PASS
		75	0		22.13	2	24.13	1.00	30.00	PASS



Radiated Power (EIRP) for LTE Band 4 /20M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
20	Lowest	1	0	QPSK	21.79	5.2	26.99	1.00	30.00	PASS
		1	49		21.09	5.2	26.29	1.00	30.00	PASS
		1	99		21.13	5.2	26.33	1.00	30.00	PASS
		50	0		20.94	5.2	26.14	1.00	30.00	PASS
		50	24		22.29	5.2	27.49	1.00	30.00	PASS
		50	49		23.77	5.2	28.97	1.00	30.00	PASS
		100	0		22.62	5.2	27.82	1.00	30.00	PASS
	Middle	1	0	QPSK	21.94	5.2	27.14	1.00	30.00	PASS
		1	49		22.57	5.2	27.77	1.00	30.00	PASS
		1	99		22.48	5.2	27.68	1.00	30.00	PASS
		50	0		23.2	5.2	28.40	1.00	30.00	PASS
		50	24		23.61	5.2	28.81	1.00	30.00	PASS
		50	49		22.71	5.2	27.91	1.00	30.00	PASS
		100	0		22.82	5.2	28.02	1.00	30.00	PASS
	Highest	1	0	QPSK	22.62	5.2	27.82	1.00	30.00	PASS
		1	49		23.19	5.2	28.39	1.00	30.00	PASS
		1	99		22.38	5.2	27.58	1.00	30.00	PASS
		50	0		22.42	5.2	27.62	1.00	30.00	PASS
		50	24		22.86	5.2	28.06	1.00	30.00	PASS
		50	49		21.89	5.2	27.09	1.00	30.00	PASS
		100	0		21.81	5.2	27.01	1.00	30.00	PASS



Radiated Power (ERP) for LTE Band 5 /1.4M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
1.4	Lowest	1	0	QPSK	23.15	1.2	22.20	7.00	38.45	PASS
		1	2		23.91	1.2	22.96	7.00	38.45	PASS
		1	5		23.15	1.2	22.20	7.00	38.45	PASS
		3	0		23.36	1.2	22.41	7.00	38.45	PASS
		3	1		23.6	1.2	22.65	7.00	38.45	PASS
		3	2		23.39	1.2	22.44	7.00	38.45	PASS
		6	0		22.38	1.2	21.43	7.00	38.45	PASS
		1	0	16QAM	21.97	1.2	21.02	7.00	38.45	PASS
		1	2		22.71	1.2	21.76	7.00	38.45	PASS
		1	5		22	1.2	21.05	7.00	38.45	PASS
		3	0		22.37	1.2	21.42	7.00	38.45	PASS
		3	1		22.75	1.2	21.80	7.00	38.45	PASS
		3	2		22.58	1.2	21.63	7.00	38.45	PASS
		6	0		21.63	1.2	20.68	7.00	38.45	PASS
	Middle	1	0	QPSK	23.05	1.2	22.10	7.00	38.45	PASS
		1	2		23.61	1.2	22.66	7.00	38.45	PASS
		1	5		22.98	1.2	22.03	7.00	38.45	PASS
		3	0		23.54	1.2	22.59	7.00	38.45	PASS
		3	1		23.35	1.2	22.40	7.00	38.45	PASS
		3	2		23.32	1.2	22.37	7.00	38.45	PASS
		6	0		22.17	1.2	21.22	7.00	38.45	PASS
		1	0	16QAM	21.97	1.2	21.02	7.00	38.45	PASS
		1	2		22.51	1.2	21.56	7.00	38.45	PASS
		1	5		22.26	1.2	21.31	7.00	38.45	PASS
		3	0		22.82	1.2	21.87	7.00	38.45	PASS
		3	1		23.03	1.2	22.08	7.00	38.45	PASS
		3	2		22.67	1.2	21.72	7.00	38.45	PASS
		6	0		21.81	1.2	20.86	7.00	38.45	PASS
	Highest	1	0	QPSK	23.35	1.2	22.40	7.00	38.45	PASS
		1	2		23.64	1.2	22.69	7.00	38.45	PASS
		1	5		22.95	1.2	22.00	7.00	38.45	PASS
		3	0		23.68	1.2	22.73	7.00	38.45	PASS
		3	1		23.77	1.2	22.82	7.00	38.45	PASS
		3	2		23.03	1.2	22.08	7.00	38.45	PASS
		6	0		22.27	1.2	21.32	7.00	38.45	PASS
		1	0	16QAM	22.5	1.2	21.55	7.00	38.45	PASS
		1	2		22.84	1.2	21.89	7.00	38.45	PASS
		1	5		22.09	1.2	21.14	7.00	38.45	PASS
		3	0		22.78	1.2	21.83	7.00	38.45	PASS
		3	1		22.91	1.2	21.96	7.00	38.45	PASS
		3	2		22.09	1.2	21.14	7.00	38.45	PASS
		6	0		22.59	1.2	21.64	7.00	38.45	PASS



Radiated Power (ERP) for LTE Band 5 /3M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
3	Lowest	1	0	QPSK	22.99	1.2	22.04	7.00	38.45	PASS
		1	7		23.88	1.2	22.93	7.00	38.45	PASS
		1	14		23.29	1.2	22.34	7.00	38.45	PASS
		8	0		22.56	1.2	21.61	7.00	38.45	PASS
		8	4		22.9	1.2	21.95	7.00	38.45	PASS
		8	7		22.69	1.2	21.74	7.00	38.45	PASS
		15	0		22.58	1.2	21.63	7.00	38.45	PASS
		1	0	16QAM	22.19	1.2	21.24	7.00	38.45	PASS
		1	7		23.51	1.2	22.56	7.00	38.45	PASS
		1	14		22.51	1.2	21.56	7.00	38.45	PASS
		8	0		21.66	1.2	20.71	7.00	38.45	PASS
		8	4		22.03	1.2	21.08	7.00	38.45	PASS
		8	7		21.87	1.2	20.92	7.00	38.45	PASS
		15	0		21.64	1.2	20.69	7.00	38.45	PASS
	Middle	1	0	QPSK	23.05	1.2	22.10	7.00	38.45	PASS
		1	7		23.79	1.2	22.84	7.00	38.45	PASS
		1	14		22.67	1.2	21.72	7.00	38.45	PASS
		8	0		22.62	1.2	21.67	7.00	38.45	PASS
		8	4		21.90	1.2	20.95	7.00	38.45	PASS
		8	7		23.32	1.2	22.37	7.00	38.45	PASS
		15	0		22.60	1.2	21.65	7.00	38.45	PASS
		1	0	16QAM	21.50	1.2	20.55	7.00	38.45	PASS
		1	7		21.97	1.2	21.02	7.00	38.45	PASS
		1	14		22.01	1.2	21.06	7.00	38.45	PASS
		8	0		21.77	1.2	20.82	7.00	38.45	PASS
		8	4		22.16	1.2	21.21	7.00	38.45	PASS
		8	7		21.8	1.2	20.85	7.00	38.45	PASS
		15	0		21.71	1.2	20.76	7.00	38.45	PASS
	Highest	1	0	QPSK	23.34	1.2	22.39	7.00	38.45	PASS
		1	7		23.92	1.2	22.97	7.00	38.45	PASS
		1	14		23.08	1.2	22.13	7.00	38.45	PASS
		8	0		22.77	1.2	21.82	7.00	38.45	PASS
		8	4		22.92	1.2	21.97	7.00	38.45	PASS
		8	7		22.44	1.2	21.49	7.00	38.45	PASS
		15	0		22.55	1.2	21.60	7.00	38.45	PASS
		1	0	16QAM	22.51	1.2	21.56	7.00	38.45	PASS
		1	7		23.24	1.2	22.29	7.00	38.45	PASS
		1	14		22.15	1.2	21.20	7.00	38.45	PASS
		8	0		21.81	1.2	20.86	7.00	38.45	PASS
		8	4		21.99	1.2	21.04	7.00	38.45	PASS
		8	7		21.54	1.2	20.59	7.00	38.45	PASS
		15	0		21.52	1.2	20.57	7.00	38.45	PASS



Radiated Power (ERP) for LTE Band 5 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	21.91	1.2	20.96	7.00	38.45	PASS
		1	12		23.32	1.2	22.37	7.00	38.45	PASS
		1	24		23.28	1.2	22.33	7.00	38.45	PASS
		12	0		23.25	1.2	22.30	7.00	38.45	PASS
		12	6		22.13	1.2	21.18	7.00	38.45	PASS
		12	11		22.14	1.2	21.19	7.00	38.45	PASS
		25	0		22.68	1.2	21.73	7.00	38.45	PASS
		1	0	16QAM	22.61	1.2	21.66	7.00	38.45	PASS
		1	12		22.37	1.2	21.42	7.00	38.45	PASS
		1	24		22.88	1.2	21.93	7.00	38.45	PASS
		12	0		21.31	1.2	20.36	7.00	38.45	PASS
		12	6		21.49	1.2	20.54	7.00	38.45	PASS
		12	11		21.68	1.2	20.73	7.00	38.45	PASS
		25	0		21.74	1.2	20.79	7.00	38.45	PASS
	Middle	1	0	QPSK	23.19	1.2	22.24	7.00	38.45	PASS
		1	12		23.5	1.2	22.55	7.00	38.45	PASS
		1	24		23.47	1.2	22.52	7.00	38.45	PASS
		12	0		22.24	1.2	21.29	7.00	38.45	PASS
		12	6		22.21	1.2	21.26	7.00	38.45	PASS
		12	11		22.5	1.2	21.55	7.00	38.45	PASS
		25	0		22.58	1.2	21.63	7.00	38.45	PASS
		1	0	16QAM	22.33	1.2	21.38	7.00	38.45	PASS
		1	12		22.7	1.2	21.75	7.00	38.45	PASS
		1	24		22.66	1.2	21.71	7.00	38.45	PASS
		12	0		21.36	1.2	20.41	7.00	38.45	PASS
		12	6		21.31	1.2	20.36	7.00	38.45	PASS
		12	11		21.61	1.2	20.66	7.00	38.45	PASS
		25	0		21.71	1.2	20.76	7.00	38.45	PASS
	Highest	1	0	QPSK	23.57	1.2	22.62	7.00	38.45	PASS
		1	12		23.6	1.2	22.65	7.00	38.45	PASS
		1	24		23.15	1.2	22.20	7.00	38.45	PASS
		12	0		22.67	1.2	21.72	7.00	38.45	PASS
		12	6		22.67	1.2	21.72	7.00	38.45	PASS
		12	11		22.5	1.2	21.55	7.00	38.45	PASS
		25	0		22.64	1.2	21.69	7.00	38.45	PASS
		1	0	16QAM	22.85	1.2	21.90	7.00	38.45	PASS
		1	12		23	1.2	22.05	7.00	38.45	PASS
		1	24		22.47	1.2	21.52	7.00	38.45	PASS
		12	0		21.65	1.2	20.70	7.00	38.45	PASS
		12	6		21.66	1.2	20.71	7.00	38.45	PASS
		12	11		21.52	1.2	20.57	7.00	38.45	PASS
		25	0		21.67	1.2	20.72	7.00	38.45	PASS



Radiated Power (ERP) for LTE Band 5 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	ERP (dBm)	ERP Limit(W)	ERP Limit(dBm)	Verdict
10	Lowest	1	0	QPSK	20.97	1.2	20.02	7.00	38.45	PASS
		1	24		23.17	1.2	22.22	7.00	38.45	PASS
		1	49		23.96	1.2	23.01	7.00	38.45	PASS
		25	0		23.84	1.2	22.89	7.00	38.45	PASS
		25	12		22.23	1.2	21.28	7.00	38.45	PASS
		25	24		22.09	1.2	21.14	7.00	38.45	PASS
		50	0		22.99	1.2	22.04	7.00	38.45	PASS
	Middle	1	0	QPSK	22.7	1.2	21.75	7.00	38.45	PASS
		1	24		22.25	1.2	21.30	7.00	38.45	PASS
		1	49		22.9	1.2	21.95	7.00	38.45	PASS
		25	0		22.97	1.2	22.02	7.00	38.45	PASS
		25	12		21.35	1.2	20.40	7.00	38.45	PASS
		25	24		21.21	1.2	20.26	7.00	38.45	PASS
		50	0		22.12	1.2	21.17	7.00	38.45	PASS
	Highest	1	0	QPSK	22.64	1.2	21.69	7.00	38.45	PASS
		1	24		23.03	1.2	22.08	7.00	38.45	PASS
		1	49		23.74	1.2	22.79	7.00	38.45	PASS
		25	0		21.84	1.2	20.89	7.00	38.45	PASS
		25	12		21.36	1.2	20.41	7.00	38.45	PASS
		25	24		21.58	1.2	20.63	7.00	38.45	PASS
		50	0		22.04	1.2	21.09	7.00	38.45	PASS



Radiated Power (EIRP) for LTE Band 7 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	22.92	5.2	28.12	2.00	33.01	PASS
		1	12		23.68	5.2	28.88	2.00	33.01	PASS
		1	24		22.9	5.2	28.10	2.00	33.01	PASS
		12	0		22.33	5.2	27.53	2.00	33.01	PASS
		12	6		22.34	5.2	27.54	2.00	33.01	PASS
		12	11		22.5	5.2	27.70	2.00	33.01	PASS
		25	0		22.87	5.2	28.07	2.00	33.01	PASS
		1	0	16QAM	22.08	5.2	27.28	2.00	33.01	PASS
		1	12		22.91	5.2	28.11	2.00	33.01	PASS
		1	24		22.12	5.2	27.32	2.00	33.01	PASS
		12	0		22.98	5.2	28.18	2.00	33.01	PASS
		12	6		23.83	5.2	29.03	2.00	33.01	PASS
		12	11		23.02	5.2	28.22	2.00	33.01	PASS
		25	0		22.37	5.2	27.57	2.00	33.01	PASS
	Middle	1	0	QPSK	22.4	5.2	27.60	2.00	33.01	PASS
		1	12		22.29	5.2	27.49	2.00	33.01	PASS
		1	24		23.02	5.2	28.22	2.00	33.01	PASS
		12	0		22.25	5.2	27.45	2.00	33.01	PASS
		12	6		23.21	5.2	28.41	2.00	33.01	PASS
		12	11		22.41	5.2	27.61	2.00	33.01	PASS
		25	0		21.26	5.2	26.46	2.00	33.01	PASS
		1	0	16QAM	21.45	5.2	26.65	2.00	33.01	PASS
		1	12		21.36	5.2	26.56	2.00	33.01	PASS
		1	24		20.76	5.2	25.96	2.00	33.01	PASS
		12	0		21.66	5.2	26.86	2.00	33.01	PASS
		12	6		21.37	5.2	26.57	2.00	33.01	PASS
		12	11		19.83	5.2	25.03	2.00	33.01	PASS
		25	0		19.92	5.2	25.12	2.00	33.01	PASS
	Highest	1	0	QPSK	20.53	5.2	25.73	2.00	33.01	PASS
		1	12		20.69	5.2	25.89	2.00	33.01	PASS
		1	24		20.07	5.2	25.27	2.00	33.01	PASS
		12	0		20.96	5.2	26.16	2.00	33.01	PASS
		12	6		20.7	5.2	25.90	2.00	33.01	PASS
		12	11		18.86	5.2	24.06	2.00	33.01	PASS
		25	0		18.96	5.2	24.16	2.00	33.01	PASS
		1	0	16QAM	19.51	5.2	24.71	2.00	33.01	PASS
		1	12		19.83	5.2	25.03	2.00	33.01	PASS
		1	24		22.94	5.2	28.14	2.00	33.01	PASS
		12	0		23.7	5.2	28.90	2.00	33.01	PASS
		12	6		22.53	5.2	27.73	2.00	33.01	PASS
		12	11		22.48	5.2	27.68	2.00	33.01	PASS
		25	0		22.34	5.2	27.54	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 7 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
10	Lowest	1	0	QPSK	22.15	5.2	27.35	2.00	33.01	PASS
		1	24		22.84	5.2	28.04	2.00	33.01	PASS
		1	49		22.07	5.2	27.27	2.00	33.01	PASS
		25	0		22.86	5.2	28.06	2.00	33.01	PASS
		25	12		21.74	5.2	26.94	2.00	33.01	PASS
		25	24		21.56	5.2	26.76	2.00	33.01	PASS
		50	0		22.85	5.2	28.05	2.00	33.01	PASS
	Middle	1	0	QPSK	23.99	5.2	29.19	2.00	33.01	PASS
		1	24		22.51	5.2	27.71	2.00	33.01	PASS
		1	49		22.44	5.2	27.64	2.00	33.01	PASS
		25	0		22.48	5.2	27.68	2.00	33.01	PASS
		25	12		22.62	5.2	27.82	2.00	33.01	PASS
		25	24		23.02	5.2	28.22	2.00	33.01	PASS
		50	0		21.99	5.2	27.19	2.00	33.01	PASS
	Highest	1	0	QPSK	23.22	5.2	28.42	2.00	33.01	PASS
		1	24		21.83	5.2	27.03	2.00	33.01	PASS
		1	49		21.51	5.2	26.71	2.00	33.01	PASS
		25	0		20.23	5.2	25.43	2.00	33.01	PASS
		25	12		21.43	5.2	26.63	2.00	33.01	PASS
		25	24		20.57	5.2	25.77	2.00	33.01	PASS
		50	0		19.59	5.2	24.79	2.00	33.01	PASS

Radiated Power (EIRP) for LTE Band 7 /15M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
15	Lowest	1	0	QPSK	19.76	5.2	24.96	2.00	33.01	PASS
		1	37		20.69	5.2	25.89	2.00	33.01	PASS
		1	74		20.42	5.2	25.62	2.00	33.01	PASS
		36	0		19.35	5.2	24.55	2.00	33.01	PASS
		36	18		20.56	5.2	25.76	2.00	33.01	PASS
		36	39		19.74	5.2	24.94	2.00	33.01	PASS
		75	0		18.69	5.2	23.89	2.00	33.01	PASS
	Middle	1	0	QPSK	18.82	5.2	24.02	2.00	33.01	PASS
		1	37		23.09	5.2	28.29	2.00	33.01	PASS
		1	74		23.41	5.2	28.61	2.00	33.01	PASS
		36	0		22.39	5.2	27.59	2.00	33.01	PASS
		36	18		22.35	5.2	27.55	2.00	33.01	PASS
		36	39		22.1	5.2	27.30	2.00	33.01	PASS
		75	0		21.35	5.2	26.55	2.00	33.01	PASS
	Highest	1	0	QPSK	22.56	5.2	27.76	2.00	33.01	PASS
		1	37		22.28	5.2	27.48	2.00	33.01	PASS
		1	74		22.65	5.2	27.85	2.00	33.01	PASS
		36	0		23.01	5.2	28.21	2.00	33.01	PASS
		36	18		23.97	5.2	29.17	2.00	33.01	PASS
		36	39		22.87	5.2	28.07	2.00	33.01	PASS
		75	0		22.47	5.2	27.67	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 7 /20M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
20	Lowest	1	0	QPSK	22.57	5.2	27.77	2.00	33.01	PASS
		1	49		22.97	5.2	28.17	2.00	33.01	PASS
		1	99		22.96	5.2	28.16	2.00	33.01	PASS
		50	0		22.18	5.2	27.38	2.00	33.01	PASS
		50	24		23.23	5.2	28.43	2.00	33.01	PASS
		50	49		20.89	5.2	26.09	2.00	33.01	PASS
		100	0		21.14	5.2	26.34	2.00	33.01	PASS
	Middle	1	0	QPSK	21.32	5.2	26.52	2.00	33.01	PASS
		1	49		19.71	5.2	24.91	2.00	33.01	PASS
		1	99		19.66	5.2	24.86	2.00	33.01	PASS
		50	0		20.89	5.2	26.09	2.00	33.01	PASS
		50	24		20.3	5.2	25.50	2.00	33.01	PASS
		50	49		24.01	5.2	29.21	2.00	33.01	PASS
		100	0		20.31	5.2	25.51	2.00	33.01	PASS
	Highest	1	0	QPSK	23.09	5.2	28.29	2.00	33.01	PASS
		1	49		23.39	5.2	28.59	2.00	33.01	PASS
		1	99		22.32	5.2	27.52	2.00	33.01	PASS
		50	0		22.25	5.2	27.45	2.00	33.01	PASS
		50	24		21.93	5.2	27.13	2.00	33.01	PASS
		50	49		20.54	5.2	25.74	2.00	33.01	PASS
		100	0		22.29	5.2	27.49	2.00	33.01	PASS



Radiated Power (EIRP) for LTE Band 66 /1.4M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
1.4	Lowest	1	0	QPSK	22.65	5.2	27.85	1.00	30.00	PASS
		1	2		23.28	5.2	28.48	1.00	30.00	PASS
		1	5		22.56	5.2	27.76	1.00	30.00	PASS
		3	0		23.06	5.2	28.26	1.00	30.00	PASS
		3	1		23.26	5.2	28.46	1.00	30.00	PASS
		3	2		22.98	5.2	28.18	1.00	30.00	PASS
		6	0		22.01	5.2	27.21	1.00	30.00	PASS
		1	0	16QAM	21.42	5.2	26.62	1.00	30.00	PASS
		1	2		22.17	5.2	27.37	1.00	30.00	PASS
		1	5		21.47	5.2	26.67	1.00	30.00	PASS
		3	0		22.15	5.2	27.35	1.00	30.00	PASS
		3	1		22.35	5.2	27.55	1.00	30.00	PASS
		3	2		22.09	5.2	27.29	1.00	30.00	PASS
		6	0		21.21	5.2	26.41	1.00	30.00	PASS
	Middle	1	0	QPSK	22.9	5.2	28.10	1.00	30.00	PASS
		1	2		22.69	5.2	27.89	1.00	30.00	PASS
		1	5		23.71	5.2	28.91	1.00	30.00	PASS
		3	0		21.23	5.2	26.43	1.00	30.00	PASS
		3	1		22.34	5.2	27.54	1.00	30.00	PASS
		3	2		22.26	5.2	27.46	1.00	30.00	PASS
		6	0		22.33	5.2	27.53	1.00	30.00	PASS
		1	0	16QAM	22.37	5.2	27.57	1.00	30.00	PASS
		1	2		22	5.2	27.20	1.00	30.00	PASS
		1	5		22.94	5.2	28.14	1.00	30.00	PASS
		3	0		22.55	5.2	27.75	1.00	30.00	PASS
		3	1		22.69	5.2	27.89	1.00	30.00	PASS
		3	2		22.43	5.2	27.63	1.00	30.00	PASS
		6	0		21.68	5.2	26.88	1.00	30.00	PASS
	Highest	1	0	QPSK	22.46	5.2	27.66	1.00	30.00	PASS
		1	2		23.18	5.2	28.38	1.00	30.00	PASS
		1	5		22.41	5.2	27.61	1.00	30.00	PASS
		3	0		22.96	5.2	28.16	1.00	30.00	PASS
		3	1		23.14	5.2	28.34	1.00	30.00	PASS
		3	2		22.86	5.2	28.06	1.00	30.00	PASS
		6	0		21.94	5.2	27.14	1.00	30.00	PASS
		1	0	16QAM	21.58	5.2	26.78	1.00	30.00	PASS
		1	2		22.32	5.2	27.52	1.00	30.00	PASS
		1	5		21.49	5.2	26.69	1.00	30.00	PASS
		3	0		22.1	5.2	27.30	1.00	30.00	PASS
		3	1		22.3	5.2	27.50	1.00	30.00	PASS
		3	2		22.02	5.2	27.22	1.00	30.00	PASS
		6	0		21.21	5.2	26.41	1.00	30.00	PASS



Radiated Power (EIRP) for LTE Band 66 /3M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
3	Lowest	1	0	QPSK	22.63	5.2	27.83	1.00	30.00	PASS
		1	7		23.7	5.2	28.90	1.00	30.00	PASS
		1	14		21.88	5.2	27.08	1.00	30.00	PASS
		8	0		22.23	5.2	27.43	1.00	30.00	PASS
		8	4		22.43	5.2	27.63	1.00	30.00	PASS
		8	7		22.07	5.2	27.27	1.00	30.00	PASS
		15	0		22.11	5.2	27.31	1.00	30.00	PASS
		1	0	16QAM	21.74	5.2	26.94	1.00	30.00	PASS
		1	7		22.86	5.2	28.06	1.00	30.00	PASS
		1	14		21.04	5.2	26.24	1.00	30.00	PASS
		8	0		21.26	5.2	26.46	1.00	30.00	PASS
		8	4		21.48	5.2	26.68	1.00	30.00	PASS
		8	7		21.16	5.2	26.36	1.00	30.00	PASS
		15	0		21.06	5.2	26.26	1.00	30.00	PASS
	Middle	1	0	QPSK	23	5.2	28.20	1.00	30.00	PASS
		1	7		23.99	5.2	29.19	1.00	30.00	PASS
		1	14		22.18	5.2	27.38	1.00	30.00	PASS
		8	0		22.64	5.2	27.84	1.00	30.00	PASS
		8	4		22.81	5.2	28.01	1.00	30.00	PASS
		8	7		20.49	5.2	25.69	1.00	30.00	PASS
		15	0		21.21	5.2	26.41	1.00	30.00	PASS
		1	0	16QAM	21.06	5.2	26.26	1.00	30.00	PASS
		1	7		21.29	5.2	26.49	1.00	30.00	PASS
		1	14		21.02	5.2	26.22	1.00	30.00	PASS
		8	0		21.21	5.2	26.41	1.00	30.00	PASS
		8	4		21.09	5.2	26.29	1.00	30.00	PASS
		8	7		21.68	5.2	26.88	1.00	30.00	PASS
		15	0		21.55	5.2	26.75	1.00	30.00	PASS
	Highest	1	0	QPSK	22	5.2	27.20	1.00	30.00	PASS
		1	7		23.64	5.2	28.84	1.00	30.00	PASS
		1	14		22.47	5.2	27.67	1.00	30.00	PASS
		8	0		22.12	5.2	27.32	1.00	30.00	PASS
		8	4		22.35	5.2	27.55	1.00	30.00	PASS
		8	7		22.01	5.2	27.21	1.00	30.00	PASS
		15	0		22.09	5.2	27.29	1.00	30.00	PASS
		1	0	16QAM	21.32	5.2	26.52	1.00	30.00	PASS
		1	7		22.92	5.2	28.12	1.00	30.00	PASS
		1	14		21.74	5.2	26.94	1.00	30.00	PASS
		8	0		21.11	5.2	26.31	1.00	30.00	PASS
		8	4		21.36	5.2	26.56	1.00	30.00	PASS
		8	7		21.05	5.2	26.25	1.00	30.00	PASS
		15	0		21.09	5.2	26.29	1.00	30.00	PASS



Radiated Power (EIRP) for LTE Band 66 /5M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
5	Lowest	1	0	QPSK	22.63	5.2	27.83	1.00	30.00	PASS
		1	12		22.95	5.2	28.15	1.00	30.00	PASS
		1	24		21.65	5.2	26.85	1.00	30.00	PASS
		12	0		22.16	5.2	27.36	1.00	30.00	PASS
		12	6		21.23	5.2	26.43	1.00	30.00	PASS
		12	11		22.91	5.2	28.11	1.00	30.00	PASS
		25	0		23.10	5.2	28.30	1.00	30.00	PASS
		1	0	16QAM	21.94	5.2	27.14	1.00	30.00	PASS
		1	12		22.69	5.2	27.89	1.00	30.00	PASS
		1	24		22.64	5.2	27.84	1.00	30.00	PASS
		12	0		22.39	5.2	27.59	1.00	30.00	PASS
		12	6		22.52	5.2	27.72	1.00	30.00	PASS
		12	11		22.36	5.2	27.56	1.00	30.00	PASS
		25	0		21.16	5.2	26.36	1.00	30.00	PASS
	Middle	1	0	QPSK	23.12	5.2	28.32	1.00	30.00	PASS
		1	12		23.34	5.2	28.54	1.00	30.00	PASS
		1	24		21.98	5.2	27.18	1.00	30.00	PASS
		12	0		22.74	5.2	27.94	1.00	30.00	PASS
		12	6		22.63	5.2	27.83	1.00	30.00	PASS
		12	11		22.38	5.2	27.58	1.00	30.00	PASS
		25	0		22.53	5.2	27.73	1.00	30.00	PASS
		1	0	16QAM	22.3	5.2	27.50	1.00	30.00	PASS
		1	12		22.61	5.2	27.81	1.00	30.00	PASS
		1	24		21.22	5.2	26.42	1.00	30.00	PASS
		12	0		21.75	5.2	26.95	1.00	30.00	PASS
		12	6		21.65	5.2	26.85	1.00	30.00	PASS
		12	11		21.41	5.2	26.61	1.00	30.00	PASS
		25	0		21.49	5.2	26.69	1.00	30.00	PASS
	Highest	1	0	QPSK	22.12	5.2	27.32	1.00	30.00	PASS
		1	12		23.08	5.2	28.28	1.00	30.00	PASS
		1	24		22.4	5.2	27.60	1.00	30.00	PASS
		12	0		22.05	5.2	27.25	1.00	30.00	PASS
		12	6		22.09	5.2	27.29	1.00	30.00	PASS
		12	11		22.31	5.2	27.51	1.00	30.00	PASS
		25	0		22.50	5.2	27.70	1.00	30.00	PASS
		1	0	16QAM	21.98	5.2	27.18	1.00	30.00	PASS
		1	12		22.63	5.2	27.83	1.00	30.00	PASS
		1	24		21.29	5.2	26.49	1.00	30.00	PASS
		12	0		21.99	5.2	27.19	1.00	30.00	PASS
		12	6		21.40	5.2	26.60	1.00	30.00	PASS
		12	11		21.35	5.2	26.55	1.00	30.00	PASS
		25	0		21.72	5.2	26.92	1.00	30.00	PASS



Radiated Power (EIRP) for LTE Band 66 /10M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
10	Lowest	1	0	QPSK	22.66	5.2	27.86	1.00	30.00	PASS
		1	24		23.14	5.2	28.34	1.00	30.00	PASS
		1	49		21.16	5.2	26.36	1.00	30.00	PASS
		25	0		22.27	5.2	27.47	1.00	30.00	PASS
		25	12		22.07	5.2	27.27	1.00	30.00	PASS
		25	24		21.62	5.2	26.82	1.00	30.00	PASS
		50	0		21.93	5.2	27.13	1.00	30.00	PASS
	Middle	1	0	QPSK	21.77	5.2	26.97	1.00	30.00	PASS
		1	24		22.42	5.2	27.62	1.00	30.00	PASS
		1	49		20.49	5.2	25.69	1.00	30.00	PASS
		25	0		21.3	5.2	26.50	1.00	30.00	PASS
		25	12		21.15	5.2	26.35	1.00	30.00	PASS
		25	24		20.72	5.2	25.92	1.00	30.00	PASS
		50	0		22.65	5.2	27.85	1.00	30.00	PASS
	Highest	1	0	QPSK	21.77	5.2	26.97	1.00	30.00	PASS
		1	24		21.78	5.2	26.98	1.00	30.00	PASS
		1	49		21.77	5.2	26.97	1.00	30.00	PASS
		25	0		23.22	5.2	28.42	1.00	30.00	PASS
		25	12		22.68	5.2	27.88	1.00	30.00	PASS
		25	24		22.09	5.2	27.29	1.00	30.00	PASS
		50	0		22.22	5.2	27.42	1.00	30.00	PASS

Radiated Power (EIRP) for LTE Band 66 /15M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
15	Lowest	1	0	QPSK	22.21	5.2	27.41	1.00	30.00	PASS
		1	37		22.19	5.2	27.39	1.00	30.00	PASS
		1	74		20.86	5.2	26.06	1.00	30.00	PASS
		36	0		22.29	5.2	27.49	1.00	30.00	PASS
		36	18		21.73	5.2	26.93	1.00	30.00	PASS
		36	39		21.13	5.2	26.33	1.00	30.00	PASS
		75	0		21.25	5.2	26.45	1.00	30.00	PASS
	Middle	1	0	QPSK	20.99	5.2	26.19	1.00	30.00	PASS
		1	37		23.06	5.2	28.26	1.00	30.00	PASS
		1	74		22.79	5.2	27.99	1.00	30.00	PASS
		36	0		22.36	5.2	27.56	1.00	30.00	PASS
		36	18		21.54	5.2	26.74	1.00	30.00	PASS
		36	39		21.39	5.2	26.59	1.00	30.00	PASS
		75	0		21.86	5.2	27.06	1.00	30.00	PASS
	Highest	1	0	QPSK	22.08	5.2	27.28	1.00	30.00	PASS
		1	37		22.19	5.2	27.39	1.00	30.00	PASS
		1	74		21.94	5.2	27.14	1.00	30.00	PASS
		36	0		21.52	5.2	26.72	1.00	30.00	PASS
		36	18		20.67	5.2	25.87	1.00	30.00	PASS
		36	39		22.92	5.2	28.12	1.00	30.00	PASS
		75	0		23.5	5.2	28.70	1.00	30.00	PASS



Radiated Power (EIRP) for LTE Band 66 /20M										
BW (MHz)	UL Channel	RB Size	RB offset	Modulation	Conduction AVG Power(dBm)	Ant Gain (dBi)	EIRP (dBm)	EIRP Limit(W)	EIRP Limit(dBm)	Verdict
20	Lowest	1	0	QPSK	21.86	5.2	27.06	1.00	30.00	PASS
		1	49		22.41	5.2	27.61	1.00	30.00	PASS
		1	99		22.23	5.2	27.43	1.00	30.00	PASS
		50	0		21.61	5.2	26.81	1.00	30.00	PASS
		50	24		22.55	5.2	27.75	1.00	30.00	PASS
		50	49		22.19	5.2	27.39	1.00	30.00	PASS
		100	0		22.73	5.2	27.93	1.00	30.00	PASS
	Middle	1	0	QPSK	21.08	5.2	26.28	1.00	30.00	PASS
		1	49		21.32	5.2	26.52	1.00	30.00	PASS
		1	99		21.19	5.2	26.39	1.00	30.00	PASS
		50	0		20.45	5.2	25.65	1.00	30.00	PASS
		50	24		22.43	5.2	27.63	1.00	30.00	PASS
		50	49		24.05	5.2	29.25	1.00	30.00	PASS
		100	0		21.46	5.2	26.66	1.00	30.00	PASS
	Highest	1	0	QPSK	21.29	5.2	26.49	1.00	30.00	PASS
		1	49		22.82	5.2	28.02	1.00	30.00	PASS
		1	99		23.14	5.2	28.34	1.00	30.00	PASS
		50	0		22.64	5.2	27.84	1.00	30.00	PASS
		50	24		22.11	5.2	27.31	1.00	30.00	PASS
		50	49		22.14	5.2	27.34	1.00	30.00	PASS
		100	0		22.07	5.2	27.27	1.00	30.00	PASS

5.2 PEAK TO AVERAGE RATIO

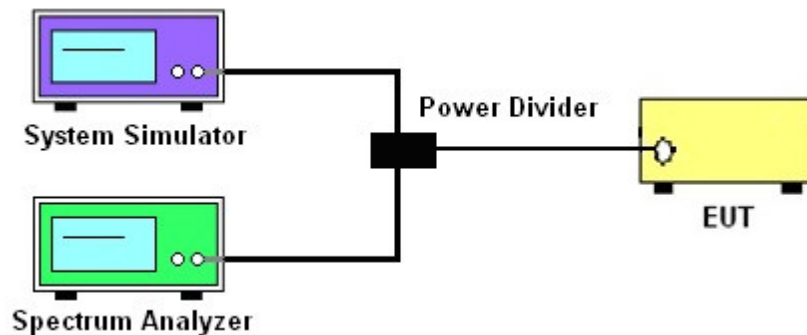
TEST OVERVIEW

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: The test data please reference to attachment “STS2312337W02_Appendix GSM” and “STS2312337W02_Appendix LTE”.

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.

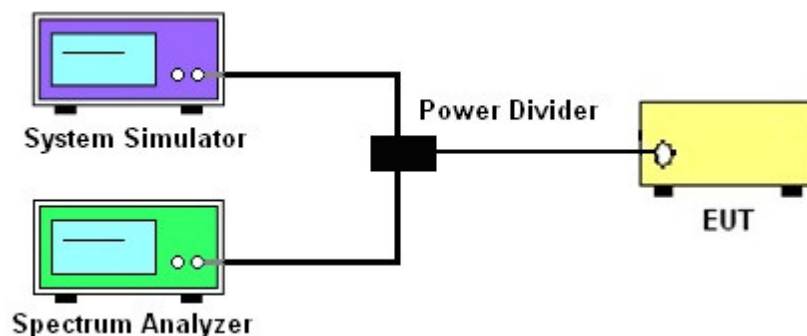
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) 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: The test data please reference to attachment "STS2312337W02_Appendix GSM" and "STS2312337W02_Appendix LTE".

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

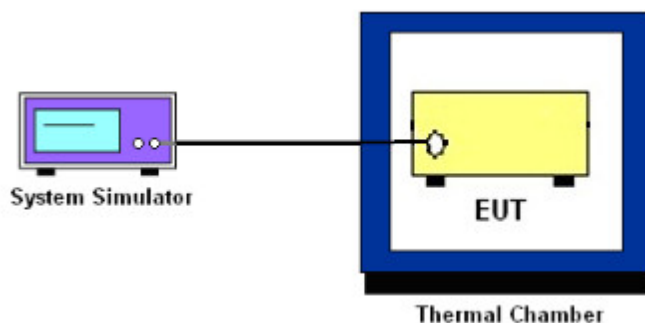
Temperature Variation

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

GPRS 850 /836.6MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	22.17	0.026	2.5ppm	PASS
40		31.74	0.038		
30		26.77	0.032		
20		26.25	0.031		
10		21.56	0.026		
0		16.31	0.019		
-10		20.47	0.024		
-20		19.19	0.023		
-30		34.95	0.042		
20	Maximum Voltage	34.42	0.041		
20	BEP	33.60	0.040		

GPRS 1900 / 1880MHz					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	13.24	0.007	Within Authorized Band	PASS
40		32.28	0.017		
30		32.59	0.017		
20		25.99	0.014		
10		13.82	0.007		
0		34.14	0.018		
-10		33.34	0.018		
-20		28.44	0.015		
-30		28.29	0.015		
20	Maximum Voltage	26.73	0.014		
20	BEP	11.86	0.006		

LTE Band 2 (QPSK) / 1880MHz / BW10M					
Temperature (°C)	Voltage (Volt)	Freq. Dev. (Hz)	Freq. Dev. (ppm)	Limit	Result
50	Normal Voltage	16.23	0.009	2.5ppm	PASS
40		31.47	0.017		
30		29.45	0.016		
20		26.50	0.014		
10		31.48	0.017		
0		21.21	0.011		
-10		33.63	0.018		
-20		29.90	0.016		
-30		12.67	0.007		
20	Maximum Voltage	19.25	0.010		
20	BEP	21.95	0.012		



LTE Band 2 (QPSK) / 1880MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	15.53	0.008	2.5ppm	PASS
40		30.55	0.016		
30		27.95	0.015		
20		16.32	0.009		
10		21.57	0.011		
0		18.88	0.010		
-10		31.83	0.017		
-20		34.11	0.018		
-30		18.48	0.010		
20	Maximum Voltage	27.14	0.014	2.5ppm	PASS
20	BEP	24.85	0.013		

LTE Band 4 (QPSK) / 1733MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	30.26	0.017	2.5ppm	PASS
40		15.85	0.009		
30		19.03	0.011		
20		23.34	0.013		
10		12.07	0.007		
0		31.80	0.018		
-10		15.55	0.009		
-20		34.44	0.020		
-30		14.85	0.009		
20	Maximum Voltage	34.45	0.020	2.5ppm	PASS
20	BEP	28.10	0.016		

LTE Band 4 (QPSK) / 1733MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	23.73	0.014	2.5ppm	PASS
40		18.09	0.010		
30		13.71	0.008		
20		24.27	0.014		
10		19.54	0.011		
0		34.08	0.020		
-10		34.26	0.020		
-20		21.22	0.012		
-30		12.53	0.007		
20	Maximum Voltage	28.36	0.016	2.5ppm	PASS
20	BEP	25.41	0.015		

LTE Band 5 (QPSK) / 836.5MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	23.69	0.033	2.5ppm	PASS
40		21.04	0.030		
30		20.93	0.029		
20		25.67	0.036		
10		21.67	0.031		
0		20.67	0.029		
-10		23.69	0.003		
-20		28.27	0.040		
-30		29.22	0.041		
20	Maximum Voltage	17.27	0.024		
20	BEP	30.72	0.043		

LTE Band 5 (QPSK) / 836.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	14.74	0.021	2.5ppm	PASS
40		18.63	0.026		
30		25.03	0.035		
20		35.30	0.050		
10		21.20	0.030		
0		14.64	0.021		
-10		28.19	0.004		
-20		31.13	0.044		
-30		32.44	0.046		
20	Maximum Voltage	23.80	0.034		
20	BEP	21.32	0.030		

LTE Band 7 (QPSK) / 2535MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	28.18	0.011	2.5ppm	PASS
40		25.05	0.010		
30		25.62	0.010		
20		27.95	0.011		
10		32.05	0.013		
0		17.50	0.007		
-10		14.30	0.006		
-20		18.01	0.007		
-30		18.29	0.007		
20	Maximum Voltage	14.81	0.006		
20	BEP	33.11	0.013		

LTE Band 7 (QPSK) / 2535MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	35.32	0.014	2.5ppm	PASS
40		32.58	0.013		
30		27.55	0.011		
20		21.36	0.008		
10		26.22	0.010		
0		28.10	0.011		
-10		22.52	0.009		
-20		17.71	0.007		
-30		34.77	0.014		
20	Maximum Voltage	34.15	0.013		
20	BEP	12.76	0.005		

LTE Band 66 (QPSK) / 1745MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	30.30	0.017	2.5ppm	PASS
40		34.01	0.020		
30		13.27	0.008		
20		16.47	0.010		
10		22.54	0.013		
0		13.86	0.008		
-10		26.98	0.016		
-20		21.16	0.012		
-30		31.72	0.018		
20	Maximum Voltage	21.58	0.012		
20	BEP	12.13	0.007		

LTE Band 66 (QPSK) / 1745MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	29.80	0.017	2.5ppm	PASS
40		28.13	0.016		
30		24.16	0.014		
20		16.60	0.010		
10		21.36	0.012		
0		22.56	0.013		
-10		12.59	0.007		
-20		23.68	0.014		
-30		27.33	0.016		
20	Maximum Voltage	26.91	0.016		
20	BEP	16.52	0.010		

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:

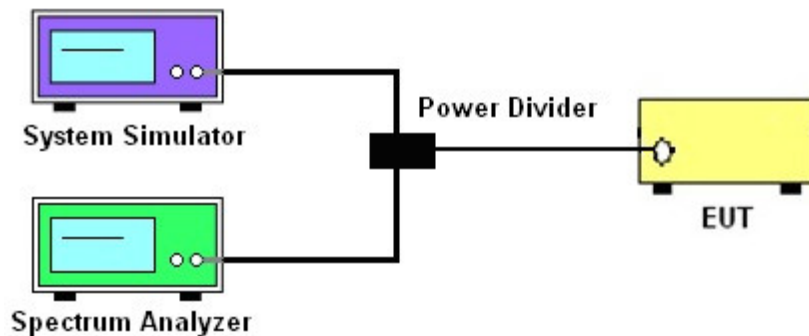
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

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: The test data please reference to attachment "STS2312337W02_Appendix GSM" and "STS2312337W02_Appendix LTE".



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 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. §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)

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

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

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

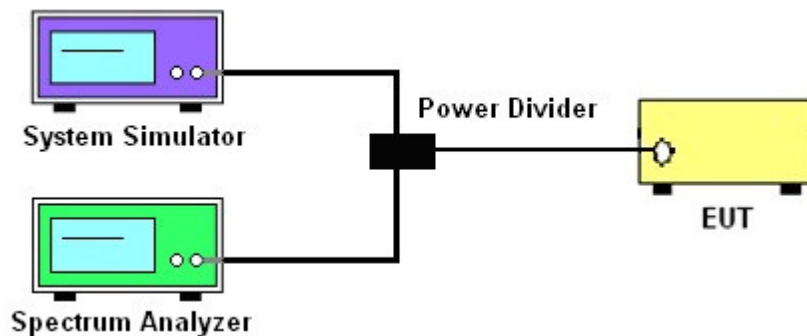
Band 7:

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

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

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

TEST SETUP



TEST RESULT

Note: The test data please reference to attachment “STS2312337W02_Appendix GSM” and “STS2312337W02_Appendix LTE”.



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.

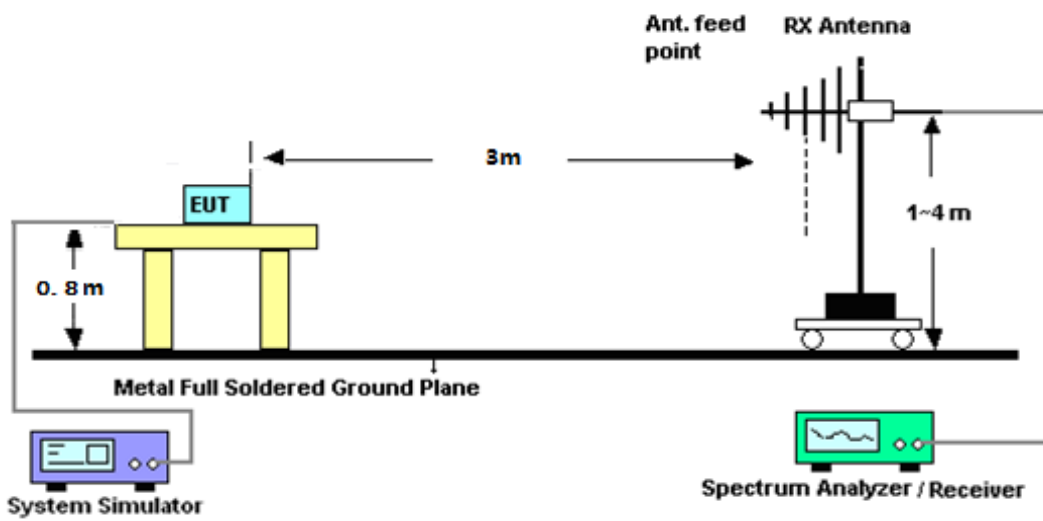
It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

TEST PROCEDURE

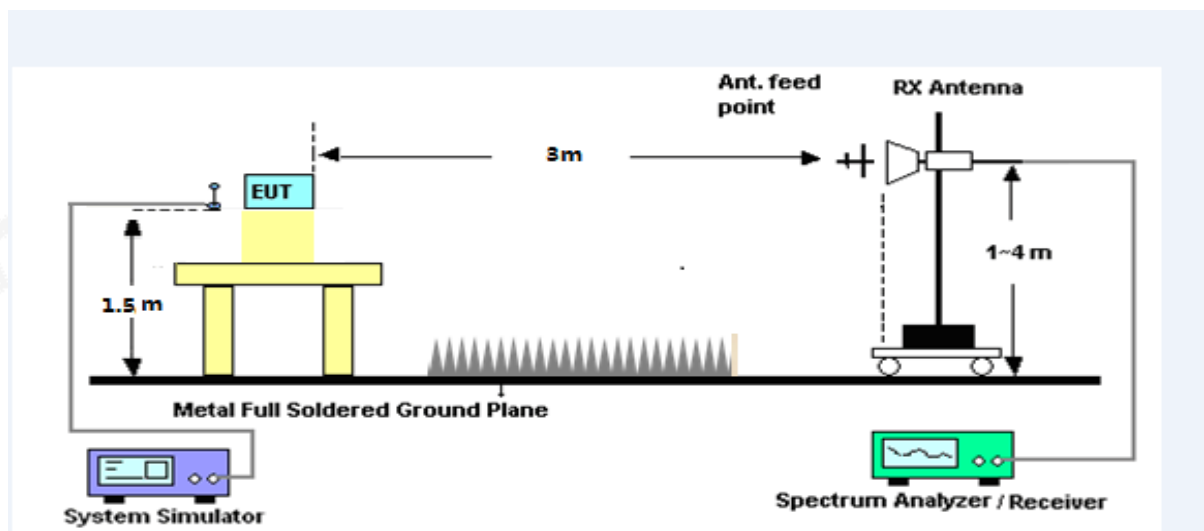
1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $> 2 \times$ span/RBW
6. Detector = Peak
7. Trace mode = max hold
8. 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.
PMea=S.G Level+ Ant-Cable loss; Margin=PMea-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.

GPRS 850: (30-9000)MHz							
The Worst Test Results Channel 128/824.2 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1648.08	-40.55	9.40	4.75	-35.90	-13.00	-22.90	H
2472.40	-40.46	10.60	8.39	-38.25	-13.00	-25.25	H
3296.44	-31.09	12.00	11.79	-30.88	-13.00	-17.88	H
1648.08	-44.15	9.40	4.75	-39.50	-13.00	-26.50	V
2472.40	-45.10	10.60	8.39	-42.89	-13.00	-29.89	V
3296.44	-43.83	12.00	11.79	-43.62	-13.00	-30.62	V
The Worst Test Results Channel 190/836.6 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.20	-41.56	9.50	4.76	-36.82	-13.00	-23.82	H
2509.90	-39.58	10.70	8.40	-37.28	-13.00	-24.28	H
3346.15	-31.30	12.20	11.80	-30.90	-13.00	-17.90	H
1673.20	-43.95	9.40	4.75	-39.30	-13.00	-26.30	V
2509.90	-44.03	10.60	8.39	-41.82	-13.00	-28.82	V
3346.15	-43.44	12.20	11.82	-43.06	-13.00	-30.06	V
The Worst Test Results Channel 251/848.8 MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1697.30	-40.37	9.60	4.77	-35.54	-13.00	-22.54	H
2546.47	-40.21	10.80	8.50	-37.91	-13.00	-24.91	H
3395.07	-31.27	12.50	11.90	-30.67	-13.00	-17.67	H
1697.30	-43.55	9.60	4.77	-38.72	-13.00	-25.72	V
2546.47	-45.19	10.80	8.50	-42.89	-13.00	-29.89	V
3395.07	-43.71	12.50	11.90	-43.11	-13.00	-30.11	V



GPRS1900: (30-20000)MHz							
The Worst Test Results for Channel 512/1850.2MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3700.19	-33.48	12.60	12.93	-33.81	-13.00	-20.81	H
5550.34	-34.23	13.10	17.11	-38.24	-13.00	-25.24	H
7400.73	-33.05	11.50	22.20	-43.75	-13.00	-30.75	H
3700.19	-35.04	12.60	12.93	-35.37	-13.00	-22.37	V
5550.34	-34.83	13.10	17.11	-38.84	-13.00	-25.84	V
7400.73	-32.14	11.50	22.20	-42.84	-13.00	-29.84	V
The Worst Test Results for Channel 661/1880.0MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.16	-33.52	12.60	12.93	-33.85	-13.00	-20.85	H
5640.30	-35.28	13.10	17.11	-39.29	-13.00	-26.29	H
7520.28	-33.61	11.50	22.20	-44.31	-13.00	-31.31	H
3760.16	-34.96	12.60	12.93	-35.29	-13.00	-22.29	V
5640.30	-34.91	13.10	17.11	-38.92	-13.00	-25.92	V
7520.28	-31.94	11.50	22.20	-42.64	-13.00	-29.64	V
The Worst Test Results for Channel 810/1909.8MHz							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3819.25	-34.62	12.60	12.93	-34.95	-13.00	-21.95	H
5729.02	-34.25	13.10	17.11	-38.26	-13.00	-25.26	H
7639.04	-33.59	11.50	22.20	-44.29	-13.00	-31.29	H
3819.25	-34.66	12.60	12.93	-34.99	-13.00	-21.99	V
5729.02	-34.35	13.10	17.11	-38.36	-13.00	-25.36	V
7639.04	-32.67	11.50	22.20	-43.37	-13.00	-30.37	V

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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3701.18	-33.45	12.60	12.93	-33.78	-13.00	-20.78	H
5552.15	-34.15	13.10	17.11	-38.16	-13.00	-25.16	H
7402.60	-33.26	11.50	22.20	-43.96	-13.00	-30.96	H
3701.18	-35.84	12.60	12.93	-36.17	-13.00	-23.17	V
5552.15	-34.37	13.10	17.11	-38.38	-13.00	-25.38	V
7402.60	-32.43	11.50	22.20	-43.13	-13.00	-30.13	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.15	-33.74	12.60	12.93	-34.07	-13.00	-21.07	H
5640.08	-34.74	13.10	17.11	-38.75	-13.00	-25.75	H
7520.24	-32.26	11.50	22.20	-42.96	-13.00	-29.96	H
3760.15	-35.53	12.60	12.93	-35.86	-13.00	-22.86	V
5640.08	-34.14	13.10	17.11	-38.15	-13.00	-25.15	V
7520.24	-32.28	11.50	22.20	-42.98	-13.00	-29.98	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3818.46	-34.56	12.60	12.93	-34.89	-13.00	-21.89	H
5727.68	-34.06	13.10	17.11	-38.07	-13.00	-25.07	H
7636.99	-32.77	11.50	22.20	-43.47	-13.00	-30.47	H
3818.46	-34.90	12.60	12.93	-35.23	-13.00	-22.23	V
5727.68	-34.91	13.10	17.11	-38.92	-13.00	-25.92	V
7636.99	-33.01	11.50	22.20	-43.71	-13.00	-30.71	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3703.04	-34.43	12.60	12.93	-34.76	-13.00	-21.76	H
5554.33	-34.54	13.10	17.11	-38.55	-13.00	-25.55	H
7406.08	-32.20	11.50	22.20	-42.90	-13.00	-29.90	H
3703.04	-35.05	12.60	12.93	-35.38	-13.00	-22.38	V
5554.33	-34.62	13.10	17.11	-38.63	-13.00	-25.63	V
7406.08	-32.30	11.50	22.20	-43.00	-13.00	-30.00	V
LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.19	-34.88	12.60	12.93	-35.21	-13.00	-22.21	H
5639.95	-35.28	13.10	17.11	-39.29	-13.00	-26.29	H
7520.13	-33.39	11.50	22.20	-44.09	-13.00	-31.09	H
3760.19	-35.83	12.60	12.93	-36.16	-13.00	-23.16	V
5639.95	-33.82	13.10	17.11	-37.83	-13.00	-24.83	V
7520.13	-32.94	11.50	22.20	-43.64	-13.00	-30.64	V
LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3817.08	-33.50	12.60	12.93	-33.83	-13.00	-20.83	H
5725.63	-34.65	13.10	17.11	-38.66	-13.00	-25.66	H
7633.89	-33.46	11.50	22.20	-44.16	-13.00	-31.16	H
3817.08	-35.57	12.60	12.93	-35.90	-13.00	-22.90	V
5725.63	-34.20	13.10	17.11	-38.21	-13.00	-25.21	V
7633.89	-32.09	11.50	22.20	-42.79	-13.00	-29.79	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3705.38	-34.00	12.60	12.93	-34.33	-13.00	-21.33	H
5557.25	-35.32	13.10	17.11	-39.33	-13.00	-26.33	H
7409.97	-33.62	11.50	22.20	-44.32	-13.00	-31.32	H
3705.38	-35.15	12.60	12.93	-35.48	-13.00	-22.48	V
5557.25	-34.91	13.10	17.11	-38.92	-13.00	-25.92	V
7409.97	-32.51	11.50	22.20	-43.21	-13.00	-30.21	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.17	-34.89	12.60	12.93	-35.22	-13.00	-22.22	H
5640.01	-34.74	13.10	17.11	-38.75	-13.00	-25.75	H
7519.94	-32.87	11.50	22.20	-43.57	-13.00	-30.57	H
3760.17	-35.13	12.60	12.93	-35.46	-13.00	-22.46	V
5640.01	-34.48	13.10	17.11	-38.49	-13.00	-25.49	V
7519.94	-32.91	11.50	22.20	-43.61	-13.00	-30.61	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3815.05	-34.47	12.60	12.93	-34.80	-13.00	-21.80	H
5722.47	-34.38	13.10	17.11	-38.39	-13.00	-25.39	H
7630.03	-32.86	11.50	22.20	-43.56	-13.00	-30.56	H
3815.05	-35.12	12.60	12.93	-35.45	-13.00	-22.45	V
5722.47	-34.25	13.10	17.11	-38.26	-13.00	-25.26	V
7630.03	-32.44	11.50	22.20	-43.14	-13.00	-30.14	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3710.25	-34.86	12.60	12.93	-35.19	-13.00	-22.19	H
5565.36	-34.69	13.10	17.11	-38.70	-13.00	-25.70	H
7420.00	-32.83	11.50	22.20	-43.53	-13.00	-30.53	H
3710.25	-34.67	12.60	12.93	-35.00	-13.00	-22.00	V
5565.36	-35.02	13.10	17.11	-39.03	-13.00	-26.03	V
7420.00	-32.48	11.50	22.20	-43.18	-13.00	-30.18	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.80	-33.78	12.60	12.93	-34.11	-13.00	-21.11	H
5639.83	-34.72	13.10	17.11	-38.73	-13.00	-25.73	H
7520.05	-32.96	11.50	22.20	-43.66	-13.00	-30.66	H
3759.80	-35.20	12.60	12.93	-35.53	-13.00	-22.53	V
5639.83	-34.98	13.10	17.11	-38.99	-13.00	-25.99	V
7520.05	-32.25	11.50	22.20	-42.95	-13.00	-29.95	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3809.98	-33.59	12.60	12.93	-33.92	-13.00	-20.92	H
5714.96	-34.68	13.10	17.11	-38.69	-13.00	-25.69	H
7619.86	-33.05	11.50	22.20	-43.75	-13.00	-30.75	H
3809.98	-35.46	12.60	12.93	-35.79	-13.00	-22.79	V
5714.96	-34.08	13.10	17.11	-38.09	-13.00	-25.09	V
7619.86	-33.01	11.50	22.20	-43.71	-13.00	-30.71	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3715.17	-33.83	12.60	12.93	-34.16	-13.00	-21.16	H
5572.32	-34.75	13.10	17.11	-38.76	-13.00	-25.76	H
7430.40	-32.82	11.50	22.20	-43.52	-13.00	-30.52	H
3715.17	-34.77	12.60	12.93	-35.10	-13.00	-22.10	V
5572.32	-34.53	13.10	17.11	-38.54	-13.00	-25.54	V
7430.40	-31.94	11.50	22.20	-42.64	-13.00	-29.64	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.98	-34.07	12.60	12.93	-34.40	-13.00	-21.40	H
5640.13	-34.67	13.10	17.11	-38.68	-13.00	-25.68	H
7520.02	-32.94	11.50	22.20	-43.64	-13.00	-30.64	H
3759.98	-35.40	12.60	12.93	-35.73	-13.00	-22.73	V
5640.13	-34.17	13.10	17.11	-38.18	-13.00	-25.18	V
7520.02	-32.33	11.50	22.20	-43.03	-13.00	-30.03	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3805.21	-33.50	12.60	12.93	-33.83	-13.00	-20.83	H
5707.45	-34.82	13.10	17.11	-38.83	-13.00	-25.83	H
7610.10	-32.32	11.50	22.20	-43.02	-13.00	-30.02	H
3805.21	-35.81	12.60	12.93	-36.14	-13.00	-23.14	V
5707.45	-33.96	13.10	17.11	-37.97	-13.00	-24.97	V
7610.10	-33.00	11.50	22.20	-43.70	-13.00	-30.70	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3720.14	-34.39	12.60	12.93	-34.72	-13.00	-21.72	H
5580.51	-35.01	13.10	17.11	-39.02	-13.00	-26.02	H
7440.07	-32.38	11.50	22.20	-43.08	-13.00	-30.08	H
3720.14	-35.36	12.60	12.93	-35.69	-13.00	-22.69	V
5580.51	-34.35	13.10	17.11	-38.36	-13.00	-25.36	V
7440.07	-32.69	11.50	22.20	-43.39	-13.00	-30.39	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.84	-33.64	12.60	12.93	-33.97	-13.00	-20.97	H
5639.97	-34.53	13.10	17.11	-38.54	-13.00	-25.54	H
7519.82	-33.40	11.50	22.20	-44.10	-13.00	-31.10	H
3759.84	-35.74	12.60	12.93	-36.07	-13.00	-23.07	V
5639.97	-34.61	13.10	17.11	-38.62	-13.00	-25.62	V
7519.82	-31.98	11.50	22.20	-42.68	-13.00	-29.68	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3799.90	-33.98	12.60	12.93	-34.31	-13.00	-21.31	H
5699.85	-34.16	13.10	17.11	-38.17	-13.00	-25.17	H
7600.17	-33.31	11.50	22.20	-44.01	-13.00	-31.01	H
3799.90	-35.27	12.60	12.93	-35.60	-13.00	-22.60	V
5699.85	-34.36	13.10	17.11	-38.37	-13.00	-25.37	V
7600.17	-32.58	11.50	22.20	-43.28	-13.00	-30.28	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3421.17	-34.35	12.90	12.56	-34.01	-13.00	-21.01	H
5131.79	-34.74	13.10	16.32	-37.96	-13.00	-24.96	H
6842.79	-32.80	12.33	21.13	-41.60	-13.00	-28.60	H
3421.17	-35.69	12.90	12.56	-35.35	-13.00	-22.35	V
5131.79	-34.92	13.10	16.32	-38.14	-13.00	-25.14	V
6842.79	-31.80	12.33	21.13	-40.60	-13.00	-27.60	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.76	-33.54	12.90	12.56	-33.20	-13.00	-20.20	H
5196.57	-35.47	13.10	16.32	-38.69	-13.00	-25.69	H
6930.29	-32.61	12.33	21.13	-41.41	-13.00	-28.41	H
3464.76	-35.67	12.90	12.56	-35.33	-13.00	-22.33	V
5196.57	-34.96	13.10	16.32	-38.18	-13.00	-25.18	V
6930.29	-32.18	12.33	21.13	-40.98	-13.00	-27.98	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3508.11	-33.83	12.90	12.56	-33.49	-13.00	-20.49	H
5262.59	-34.00	13.10	16.32	-37.22	-13.00	-24.22	H
7015.54	-32.35	12.33	21.13	-41.15	-13.00	-28.15	H
3508.11	-34.67	12.90	12.56	-34.33	-13.00	-21.33	V
5262.59	-35.21	13.10	16.32	-38.43	-13.00	-25.43	V
7015.54	-32.62	12.33	21.13	-41.42	-13.00	-28.42	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3423.76	-34.71	12.90	12.56	-34.37	-13.00	-21.37	H
5136.04	-34.89	13.10	16.32	-38.11	-13.00	-25.11	H
6848.41	-33.30	12.33	21.13	-42.10	-13.00	-29.10	H
3423.76	-35.56	12.90	12.56	-35.22	-13.00	-22.22	V
5136.04	-34.96	13.10	16.32	-38.18	-13.00	-25.18	V
6848.41	-32.19	12.33	21.13	-40.99	-13.00	-27.99	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.63	-34.68	12.90	12.56	-34.34	-13.00	-21.34	H
5196.90	-34.60	13.10	16.32	-37.82	-13.00	-24.82	H
6930.09	-33.47	12.33	21.13	-42.27	-13.00	-29.27	H
3464.63	-35.52	12.90	12.56	-35.18	-13.00	-22.18	V
5196.90	-35.17	13.10	16.32	-38.39	-13.00	-25.39	V
6930.09	-32.46	12.33	21.13	-41.26	-13.00	-28.26	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3506.15	-34.34	12.90	12.56	-34.00	-13.00	-21.00	H
5261.68	-35.28	13.10	16.32	-38.50	-13.00	-25.50	H
7012.36	-32.75	12.33	21.13	-41.55	-13.00	-28.55	H
3506.15	-34.55	12.90	12.56	-34.21	-13.00	-21.21	V
5261.68	-34.36	13.10	16.32	-37.58	-13.00	-24.58	V
7012.36	-32.08	12.33	21.13	-40.88	-13.00	-27.88	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3424.87	-34.20	12.90	12.56	-33.86	-13.00	-20.86	H
5137.26	-34.82	13.10	16.32	-38.04	-13.00	-25.04	H
6849.88	-33.13	12.33	21.13	-41.93	-13.00	-28.93	H
3424.87	-35.01	12.90	12.56	-34.67	-13.00	-21.67	V
5137.26	-34.31	13.10	16.32	-37.53	-13.00	-24.53	V
6849.88	-32.26	12.33	21.13	-41.06	-13.00	-28.06	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.51	-33.91	12.90	12.56	-33.57	-13.00	-20.57	H
5196.75	-34.87	13.10	16.32	-38.09	-13.00	-25.09	H
6929.99	-32.18	12.33	21.13	-40.98	-13.00	-27.98	H
3464.51	-35.21	12.90	12.56	-34.87	-13.00	-21.87	V
5196.75	-34.68	13.10	16.32	-37.90	-13.00	-24.90	V
6929.99	-31.77	12.33	21.13	-40.57	-13.00	-27.57	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3504.93	-34.09	12.90	12.56	-33.75	-13.00	-20.75	H
5257.03	-34.59	13.10	16.32	-37.81	-13.00	-24.81	H
7009.98	-33.39	12.33	21.13	-42.19	-13.00	-29.19	H
3504.93	-34.94	12.90	12.56	-34.60	-13.00	-21.60	V
5257.03	-34.37	13.10	16.32	-37.59	-13.00	-24.59	V
7009.98	-32.40	12.33	21.13	-41.20	-13.00	-28.20	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3429.96	-34.72	12.90	12.56	-34.38	-13.00	-21.38	H
5145.12	-34.80	13.10	16.32	-38.02	-13.00	-25.02	H
6860.33	-33.30	12.33	21.13	-42.10	-13.00	-29.10	H
3429.96	-35.12	12.90	12.56	-34.78	-13.00	-21.78	V
5145.12	-34.66	13.10	16.32	-37.88	-13.00	-24.88	V
6860.33	-32.07	12.33	21.13	-40.87	-13.00	-27.87	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
N/A	-34.02	12.90	12.56	-33.68	-13.00	-20.68	H
5196.52	-34.07	13.10	16.32	-37.29	-13.00	-24.29	H
6929.62	-32.69	12.33	21.13	-41.49	-13.00	-28.49	H
3464.37	-35.16	12.90	12.56	-34.82	-13.00	-21.82	V
5196.52	-35.24	13.10	16.32	-38.46	-13.00	-25.46	V
6929.62	-32.30	12.33	21.13	-41.10	-13.00	-28.10	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3500.10	-34.63	12.90	12.56	-34.29	-13.00	-21.29	H
5250.00	-34.38	13.10	16.32	-37.60	-13.00	-24.60	H
6999.97	-33.58	12.33	21.13	-42.38	-13.00	-29.38	H
3500.10	-34.99	12.90	12.56	-34.65	-13.00	-21.65	V
5250.00	-34.47	13.10	16.32	-37.69	-13.00	-24.69	V
6999.97	-32.96	12.33	21.13	-41.76	-13.00	-28.76	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3434.73	-34.35	12.90	12.56	-34.01	-13.00	-21.01	H
5152.33	-35.13	13.10	16.32	-38.35	-13.00	-25.35	H
6870.31	-32.47	12.33	21.13	-41.27	-13.00	-28.27	H
3434.73	-35.85	12.90	12.56	-35.51	-13.00	-22.51	V
5152.33	-34.76	13.10	16.32	-37.98	-13.00	-24.98	V
6870.31	-33.17	12.33	21.13	-41.97	-13.00	-28.97	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.93	-34.50	12.90	12.56	-34.16	-13.00	-21.16	H
5196.67	-34.95	13.10	16.32	-38.17	-13.00	-25.17	H
6929.73	-32.27	12.33	21.13	-41.07	-13.00	-28.07	H
3464.93	-35.15	12.90	12.56	-34.81	-13.00	-21.81	V
5196.67	-34.49	13.10	16.32	-37.71	-13.00	-24.71	V
6929.73	-31.95	12.33	21.13	-40.75	-13.00	-27.75	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3495.25	-34.16	12.90	12.56	-33.82	-13.00	-20.82	H
5242.33	-34.90	13.10	16.32	-38.12	-13.00	-25.12	H
6990.34	-32.48	12.33	21.13	-41.28	-13.00	-28.28	H
3495.25	-35.52	12.90	12.56	-35.18	-13.00	-22.18	V
5242.33	-34.11	13.10	16.32	-37.33	-13.00	-24.33	V
6990.34	-31.72	12.33	21.13	-40.52	-13.00	-27.52	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3440.06	-34.66	12.90	12.56	-34.32	-13.00	-21.32	H
5159.88	-34.93	13.10	16.32	-38.15	-13.00	-25.15	H
6880.86	-32.54	12.33	21.13	-41.34	-13.00	-28.34	H
3440.06	-35.08	12.90	12.56	-34.74	-13.00	-21.74	V
5159.88	-33.89	13.10	16.32	-37.11	-13.00	-24.11	V
6880.86	-32.95	12.33	21.13	-41.75	-13.00	-28.75	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.63	-34.06	12.90	12.56	-33.72	-13.00	-20.72	H
5196.80	-35.21	13.10	16.32	-38.43	-13.00	-25.43	H
6929.60	-33.13	12.33	21.13	-41.93	-13.00	-28.93	H
3464.63	-35.75	12.90	12.56	-35.41	-13.00	-22.41	V
5196.80	-34.61	13.10	16.32	-37.83	-13.00	-24.83	V
6929.60	-32.82	12.33	21.13	-41.62	-13.00	-28.62	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3490.23	-34.07	12.90	12.56	-33.73	-13.00	-20.73	H
5234.93	-35.20	13.10	16.32	-38.42	-13.00	-25.42	H
6979.48	-32.53	12.33	21.13	-41.33	-13.00	-28.33	H
3490.23	-35.48	12.90	12.56	-35.14	-13.00	-22.14	V
5234.93	-34.85	13.10	16.32	-38.07	-13.00	-25.07	V
6979.48	-32.58	12.33	21.13	-41.38	-13.00	-28.38	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1648.78	-33.47	9.56	9.72	-33.63	-13.00	-20.63	H
2473.59	-35.02	10.50	10.86	-35.38	-13.00	-22.38	H
3298.59	-32.79	12.78	11.57	-31.58	-13.00	-18.58	H
1648.78	-34.60	9.56	9.72	-34.76	-13.00	-21.76	V
2473.59	-34.80	10.50	10.86	-35.16	-13.00	-22.16	V
3298.59	-32.26	12.78	11.57	-31.05	-13.00	-18.05	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.82	-33.50	9.56	9.72	-33.66	-13.00	-20.66	H
2509.15	-34.99	10.50	10.86	-35.35	-13.00	-22.35	H
3345.74	-32.86	12.78	11.57	-31.65	-13.00	-18.65	H
1672.82	-34.55	9.56	9.72	-34.71	-13.00	-21.71	V
2509.15	-33.88	10.50	10.86	-34.24	-13.00	-21.24	V
3345.74	-31.86	12.78	11.57	-30.65	-13.00	-17.65	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1696.28	-33.97	9.56	9.72	-34.13	-13.00	-21.13	H
2544.52	-34.64	10.50	10.86	-35.00	-13.00	-22.00	H
3393.18	-32.40	12.78	11.57	-31.19	-13.00	-18.19	H
1696.28	-35.16	9.56	9.72	-35.32	-13.00	-22.32	V
2544.52	-33.88	10.50	10.86	-34.24	-13.00	-21.24	V
3393.18	-32.62	12.78	11.57	-31.41	-13.00	-18.41	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1650.09	-34.36	9.56	9.72	-34.52	-13.00	-21.52	H
2475.83	-35.42	10.50	10.86	-35.78	-13.00	-22.78	H
3301.41	-32.32	12.78	11.57	-31.11	-13.00	-18.11	H
1650.09	-34.79	9.56	9.72	-34.95	-13.00	-21.95	V
2475.83	-34.35	10.50	10.86	-34.71	-13.00	-21.71	V
3301.41	-32.30	12.78	11.57	-31.09	-13.00	-18.09	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.53	-34.18	9.56	9.72	-34.34	-13.00	-21.34	H
2509.05	-34.16	10.50	10.86	-34.52	-13.00	-21.52	H
3345.69	-33.35	12.78	11.57	-32.14	-13.00	-19.14	H
1672.53	-35.37	9.56	9.72	-35.53	-13.00	-22.53	V
2509.05	-34.59	10.50	10.86	-34.95	-13.00	-21.95	V
3345.69	-32.17	12.78	11.57	-30.96	-13.00	-17.96	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1694.32	-34.86	9.56	9.72	-35.02	-13.00	-22.02	H
2541.80	-35.49	10.50	10.86	-35.85	-13.00	-22.85	H
3389.29	-33.58	12.78	11.57	-32.37	-13.00	-19.37	H
1694.32	-34.97	9.56	9.72	-35.13	-13.00	-22.13	V
2541.80	-34.25	10.50	10.86	-34.61	-13.00	-21.61	V
3389.29	-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 Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.51	-33.69	9.56	9.72	-33.85	-13.00	-20.85	H
2478.74	-34.38	10.50	10.86	-34.74	-13.00	-21.74	H
3305.47	-32.75	12.78	11.57	-31.54	-13.00	-18.54	H
1652.51	-35.67	9.56	9.72	-35.83	-13.00	-22.83	V
2478.74	-33.85	10.50	10.86	-34.21	-13.00	-21.21	V
3305.47	-32.92	12.78	11.57	-31.71	-13.00	-18.71	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.38	-33.80	9.56	9.72	-33.96	-13.00	-20.96	H
2508.92	-34.60	10.50	10.86	-34.96	-13.00	-21.96	H
3345.65	-32.16	12.78	11.57	-30.95	-13.00	-17.95	H
1672.38	-35.55	9.56	9.72	-35.71	-13.00	-22.71	V
2508.92	-34.23	10.50	10.86	-34.59	-13.00	-21.59	V
3345.65	-31.85	12.78	11.57	-30.64	-13.00	-17.64	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1692.49	-33.88	9.56	9.72	-34.04	-13.00	-21.04	H
2538.70	-34.67	10.50	10.86	-35.03	-13.00	-22.03	H
3385.44	-32.91	12.78	11.57	-31.70	-13.00	-18.70	H
1692.49	-35.65	9.56	9.72	-35.81	-13.00	-22.81	V
2538.70	-33.99	10.50	10.86	-34.35	-13.00	-21.35	V
3385.44	-32.71	12.78	11.57	-31.50	-13.00	-18.50	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1657.57	-33.59	9.56	9.72	-33.75	-13.00	-20.75	H
2486.20	-34.82	10.50	10.86	-35.18	-13.00	-22.18	H
3315.17	-33.16	12.78	11.57	-31.95	-13.00	-18.95	H
1657.57	-35.31	9.56	9.72	-35.47	-13.00	-22.47	V
2486.20	-34.65	10.50	10.86	-35.01	-13.00	-22.01	V
3315.17	-32.34	12.78	11.57	-31.13	-13.00	-18.13	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.37	-34.10	9.56	9.72	-34.26	-13.00	-21.26	H
2508.97	-34.62	10.50	10.86	-34.98	-13.00	-21.98	H
3345.52	-32.60	12.78	11.57	-31.39	-13.00	-18.39	H
1672.37	-35.73	9.56	9.72	-35.89	-13.00	-22.89	V
2508.97	-35.06	10.50	10.86	-35.42	-13.00	-22.42	V
3345.52	-32.53	12.78	11.57	-31.32	-13.00	-18.32	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1687.45	-34.44	9.56	9.72	-34.60	-13.00	-21.60	H
2531.50	-35.02	10.50	10.86	-35.38	-13.00	-22.38	H
3375.85	-33.31	12.78	11.57	-32.10	-13.00	-19.10	H
1687.45	-35.98	9.56	9.72	-36.14	-13.00	-23.14	V
2531.50	-34.72	10.50	10.86	-35.08	-13.00	-22.08	V
3375.85	-32.15	12.78	11.57	-30.94	-13.00	-17.94	V

LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5004.89	-34.40	12.66	15.86	-37.60	-25.00	-12.60	H
7507.84	-34.63	11.46	19.28	-42.45	-25.00	-17.45	H
10010.35	-32.90	12.79	23.19	-43.30	-25.00	-18.30	H
5004.89	-35.43	12.66	15.86	-38.63	-25.00	-13.63	V
7507.84	-34.19	11.46	19.28	-42.01	-25.00	-17.01	V
10010.35	-32.97	12.79	23.19	-43.37	-25.00	-18.37	V
LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5069.60	-33.86	12.72	15.86	-37.00	-25.00	-12.00	H
7605.12	-35.10	11.46	19.28	-42.92	-25.00	-17.92	H
10140.03	-32.55	12.09	23.19	-43.65	-25.00	-18.65	H
5069.60	-35.22	12.72	15.86	-38.36	-25.00	-13.36	V
7605.12	-35.14	11.46	19.28	-42.96	-25.00	-17.96	V
10140.03	-31.76	12.09	23.19	-42.86	-25.00	-17.86	V
LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5133.86	-33.89	12.76	15.86	-36.99	-25.00	-11.99	H
7701.45	-34.34	11.45	19.28	-42.17	-25.00	-17.17	H
10268.48	-32.92	12.28	23.19	-43.83	-25.00	-18.83	H
5133.86	-34.81	12.76	15.86	-37.91	-25.00	-12.91	V
7701.45	-34.31	11.45	19.28	-42.14	-25.00	-17.14	V
10268.48	-31.73	12.28	23.19	-42.64	-25.00	-17.64	V

LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5010.33	-33.74	12.66	15.86	-36.94	-25.00	-11.94	H
7515.69	-34.95	11.46	19.28	-42.77	-25.00	-17.77	H
10020.40	-32.97	12.79	23.19	-43.37	-25.00	-18.37	H
5010.33	-34.88	12.66	15.86	-38.08	-25.00	-13.08	V
7515.69	-34.75	11.46	19.28	-42.57	-25.00	-17.57	V
10020.40	-31.79	12.79	23.19	-42.19	-25.00	-17.19	V
LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5069.88	-34.37	12.72	15.86	-37.51	-25.00	-12.51	H
7605.14	-35.26	11.46	19.28	-43.08	-25.00	-18.08	H
10139.55	-32.54	12.09	23.19	-43.64	-25.00	-18.64	H
5069.88	-35.83	12.72	15.86	-38.97	-25.00	-13.97	V
7605.14	-34.21	11.46	19.28	-42.03	-25.00	-17.03	V
10139.55	-32.16	12.09	23.19	-43.26	-25.00	-18.26	V
LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5128.93	-34.29	12.76	15.86	-37.39	-25.00	-12.39	H
7693.65	-34.58	11.45	19.28	-42.41	-25.00	-17.41	H
10258.57	-33.15	12.28	23.19	-44.06	-25.00	-19.06	H
5128.93	-34.60	12.76	15.86	-37.70	-25.00	-12.70	V
7693.65	-34.47	11.45	19.28	-42.30	-25.00	-17.30	V
10258.57	-31.89	12.28	23.19	-42.80	-25.00	-17.80	V

LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5015.55	-33.67	12.66	15.86	-36.87	-25.00	-11.87	H
7523.91	-34.30	11.46	19.28	-42.12	-25.00	-17.12	H
10031.52	-32.86	12.79	23.19	-43.26	-25.00	-18.26	H
5015.55	-34.60	12.66	15.86	-37.80	-25.00	-12.80	V
7523.91	-34.03	11.46	19.28	-41.85	-25.00	-16.85	V
10031.52	-33.07	12.79	23.19	-43.47	-25.00	-18.47	V
LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5070.02	-34.40	12.72	15.86	-37.54	-25.00	-12.54	H
7604.68	-34.32	11.46	19.28	-42.14	-25.00	-17.14	H
10139.93	-33.56	12.09	23.19	-44.66	-25.00	-19.66	H
5070.02	-34.80	12.72	15.86	-37.94	-25.00	-12.94	V
7604.68	-35.18	11.46	19.28	-43.00	-25.00	-18.00	V
10139.93	-32.51	12.09	23.19	-43.61	-25.00	-18.61	V
LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5123.37	-33.59	12.76	15.86	-36.69	-25.00	-11.69	H
7523.60	-34.99	11.45	19.28	-42.82	-25.00	-17.82	H
10031.93	-32.58	12.28	23.19	-43.49	-25.00	-18.49	H
5123.37	-35.78	12.76	15.86	-38.88	-25.00	-13.88	V
7523.60	-33.91	11.45	19.28	-41.74	-25.00	-16.74	V
10031.93	-32.01	12.28	23.19	-42.92	-25.00	-17.92	V

LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5020.87	-34.62	12.66	15.86	-37.82	-25.00	-12.82	H
7531.21	-34.91	11.46	19.28	-42.73	-25.00	-17.73	H
10258.86	-33.53	12.79	23.19	-43.93	-25.00	-18.93	H
5020.87	-35.34	12.66	15.86	-38.54	-25.00	-13.54	V
7531.21	-35.18	11.46	19.28	-43.00	-25.00	-18.00	V
10258.86	-32.11	12.79	23.19	-42.51	-25.00	-17.51	V
LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5069.63	-34.51	12.72	15.86	-37.65	-25.00	-12.65	H
7605.13	-34.21	11.46	19.28	-42.03	-25.00	-17.03	H
10139.92	-33.00	12.09	23.19	-44.10	-25.00	-19.10	H
5069.63	-35.96	12.72	15.86	-39.10	-25.00	-14.10	V
7605.13	-34.04	11.46	19.28	-41.86	-25.00	-16.86	V
10139.92	-32.34	12.09	23.19	-43.44	-25.00	-18.44	V
LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5118.84	-34.13	12.76	15.86	-37.23	-25.00	-12.23	H
7678.14	-34.27	11.45	19.28	-42.10	-25.00	-17.10	H
10237.63	-32.79	12.28	23.19	-43.70	-25.00	-18.70	H
5118.84	-35.35	12.76	15.86	-38.45	-25.00	-13.45	V
7678.14	-34.11	11.45	19.28	-41.94	-25.00	-16.94	V
10237.63	-31.84	12.28	23.19	-42.75	-25.00	-17.75	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3421.02	-34.25	12.90	12.56	-33.91	-13.00	-20.91	H
5131.85	-34.69	13.10	16.32	-37.91	-13.00	-24.91	H
6842.55	-33.03	12.33	21.13	-41.83	-13.00	-28.83	H
3421.02	-34.65	12.90	12.56	-34.31	-13.00	-21.31	V
5131.85	-34.64	13.10	16.32	-37.86	-13.00	-24.86	V
6842.55	-31.90	12.33	21.13	-40.70	-13.00	-27.70	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3489.87	-33.98	12.90	12.56	-33.64	-13.00	-20.64	H
5235.04	-35.19	13.10	16.32	-38.41	-13.00	-25.41	H
6980.12	-32.26	12.33	21.13	-41.06	-13.00	-28.06	H
3489.87	-35.31	12.90	12.56	-34.97	-13.00	-21.97	V
5235.04	-34.79	13.10	16.32	-38.01	-13.00	-25.01	V
6980.12	-32.48	12.33	21.13	-41.28	-13.00	-28.28	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3558.11	-33.91	12.90	12.56	-33.57	-13.00	-20.57	H
5337.05	-35.18	13.10	16.32	-38.40	-13.00	-25.40	H
7116.78	-33.42	12.33	21.13	-42.22	-13.00	-29.22	H
3558.11	-35.17	12.90	12.56	-34.83	-13.00	-21.83	V
5337.05	-34.92	13.10	16.32	-38.14	-13.00	-25.14	V
7116.78	-32.43	12.33	21.13	-41.23	-13.00	-28.23	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3422.95	-34.93	12.90	12.56	-34.59	-13.00	-21.59	H
5134.29	-34.38	13.10	16.32	-37.60	-13.00	-24.60	H
6846.06	-33.00	12.33	21.13	-41.80	-13.00	-28.80	H
3422.95	-35.96	12.90	12.56	-35.62	-13.00	-22.62	V
5134.29	-34.57	13.10	16.32	-37.79	-13.00	-24.79	V
6846.06	-32.61	12.33	21.13	-41.41	-13.00	-28.41	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3489.88	-34.40	12.90	12.56	-34.06	-13.00	-21.06	H
5235.09	-34.25	13.10	16.32	-37.47	-13.00	-24.47	H
6980.11	-32.39	12.33	21.13	-41.19	-13.00	-28.19	H
3489.88	-34.67	12.90	12.56	-34.33	-13.00	-21.33	V
5235.09	-34.89	13.10	16.32	-38.11	-13.00	-25.11	V
6980.11	-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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3557.18	-33.93	12.90	12.56	-33.59	-13.00	-20.59	H
5262.07	-35.17	13.10	16.32	-38.39	-13.00	-25.39	H
7114.06	-32.65	12.33	21.13	-41.45	-13.00	-28.45	H
3557.18	-34.85	12.90	12.56	-34.51	-13.00	-21.51	V
5262.07	-34.20	13.10	16.32	-37.42	-13.00	-24.42	V
7114.06	-32.53	12.33	21.13	-41.33	-13.00	-28.33	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3425.17	-33.85	12.90	12.56	-33.51	-13.00	-20.51	H
5137.44	-34.68	13.10	16.32	-37.90	-13.00	-24.90	H
6850.04	-33.57	12.33	21.13	-42.37	-13.00	-29.37	H
3425.17	-35.06	12.90	12.56	-34.72	-13.00	-21.72	V
5137.44	-34.91	13.10	16.32	-38.13	-13.00	-25.13	V
6850.04	-32.53	12.33	21.13	-41.33	-13.00	-28.33	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3489.91	-34.21	12.90	12.56	-33.87	-13.00	-20.87	H
5235.27	-34.80	13.10	16.32	-38.02	-13.00	-25.02	H
6979.84	-32.27	12.33	21.13	-41.07	-13.00	-28.07	H
3489.91	-34.69	12.90	12.56	-34.35	-13.00	-21.35	V
5235.27	-34.70	13.10	16.32	-37.92	-13.00	-24.92	V
6979.84	-32.97	12.33	21.13	-41.77	-13.00	-28.77	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3558.14	-34.13	12.90	12.56	-33.79	-13.00	-20.79	H
5234.90	-34.19	13.10	16.32	-37.41	-13.00	-24.41	H
7110.16	-33.03	12.33	21.13	-41.83	-13.00	-28.83	H
3558.14	-35.44	12.90	12.56	-35.10	-13.00	-22.10	V
5234.90	-34.94	13.10	16.32	-38.16	-13.00	-25.16	V
7110.16	-32.00	12.33	21.13	-40.80	-13.00	-27.80	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3430.16	-33.98	12.90	12.56	-33.64	-13.00	-20.64	H
5144.82	-35.21	13.10	16.32	-38.43	-13.00	-25.43	H
6880.05	-32.43	12.33	21.13	-41.23	-13.00	-28.23	H
3430.16	-35.97	12.90	12.56	-35.63	-13.00	-22.63	V
5144.82	-33.82	13.10	16.32	-37.04	-13.00	-24.04	V
6880.05	-32.98	12.33	21.13	-41.78	-13.00	-28.78	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3490.07	-34.08	12.90	12.56	-33.74	-13.00	-20.74	H
5235.04	-34.81	13.10	16.32	-38.03	-13.00	-25.03	H
6980.26	-32.26	12.33	21.13	-41.06	-13.00	-28.06	H
3490.07	-35.34	12.90	12.56	-35.00	-13.00	-22.00	V
5235.04	-34.53	13.10	16.32	-37.75	-13.00	-24.75	V
6980.26	-31.93	12.33	21.13	-40.73	-13.00	-27.73	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3550.60	-34.93	12.90	12.56	-34.59	-13.00	-21.59	H
5235.22	-35.01	13.10	16.32	-38.23	-13.00	-25.23	H
7100.11	-32.37	12.33	21.13	-41.17	-13.00	-28.17	H
3550.60	-34.84	12.90	12.56	-34.50	-13.00	-21.50	V
5235.22	-33.80	13.10	16.32	-37.02	-13.00	-24.02	V
7100.11	-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 Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3435.25	-34.18	12.90	12.56	-33.84	-13.00	-20.84	H
5152.30	-34.31	13.10	16.32	-37.53	-13.00	-24.53	H
6870.22	-32.25	12.33	21.13	-41.05	-13.00	-28.05	H
3435.25	-35.61	12.90	12.56	-35.27	-13.00	-22.27	V
5152.30	-34.29	13.10	16.32	-37.51	-13.00	-24.51	V
6870.22	-32.86	12.33	21.13	-41.66	-13.00	-28.66	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3490.13	-34.21	12.90	12.56	-33.87	-13.00	-20.87	H
5234.93	-34.43	13.10	16.32	-37.65	-13.00	-24.65	H
6979.81	-33.04	12.33	21.13	-41.84	-13.00	-28.84	H
3490.13	-35.29	12.90	12.56	-34.95	-13.00	-21.95	V
5234.93	-33.75	13.10	16.32	-36.97	-13.00	-23.97	V
6979.81	-32.55	12.33	21.13	-41.35	-13.00	-28.35	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3544.92	-34.56	12.90	12.56	-34.22	-13.00	-21.22	H
5332.44	-35.46	13.10	16.32	-38.68	-13.00	-25.68	H
7090.13	-32.38	12.33	21.13	-41.18	-13.00	-28.18	H
3544.92	-35.46	12.90	12.56	-35.12	-13.00	-22.12	V
5332.44	-34.21	13.10	16.32	-37.43	-13.00	-24.43	V
7090.13	-32.14	12.33	21.13	-40.94	-13.00	-27.94	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3440.25	-33.85	12.90	12.56	-33.51	-13.00	-20.51	H
5160.18	-35.34	13.10	16.32	-38.56	-13.00	-25.56	H
6880.14	-32.27	12.33	21.13	-41.07	-13.00	-28.07	H
3440.25	-35.08	12.90	12.56	-34.74	-13.00	-21.74	V
5160.18	-33.86	13.10	16.32	-37.08	-13.00	-24.08	V
6880.14	-32.21	12.33	21.13	-41.01	-13.00	-28.01	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3490.10	-34.94	12.90	12.56	-34.60	-13.00	-21.60	H
5235.26	-34.28	13.10	16.32	-37.50	-13.00	-24.50	H
6980.27	-33.53	12.33	21.13	-42.33	-13.00	-29.33	H
3490.10	-35.90	12.90	12.56	-35.56	-13.00	-22.56	V
5235.26	-34.66	13.10	16.32	-37.88	-13.00	-24.88	V
6980.27	-32.54	12.33	21.13	-41.34	-13.00	-28.34	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 (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3540.14	-34.35	12.90	12.56	-34.01	-13.00	-21.01	H
5310.06	-35.08	13.10	16.32	-38.30	-13.00	-25.30	H
7080.59	-32.21	12.33	21.13	-41.01	-13.00	-28.01	H
3540.14	-35.26	12.90	12.56	-34.92	-13.00	-21.92	V
5310.06	-35.15	13.10	16.32	-38.37	-13.00	-25.37	V
7080.59	-33.18	12.33	21.13	-41.98	-13.00	-28.98	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*****