

FCC RF Test Report

APPLICANT : Copeland Cold Chain LP.
EQUIPMENT : GO Nano Gateway
BRAND NAME : Copeland
MODEL NAME : NS-BCWE-00
FCC ID : AMHBCWE
STANDARD : 47 CFR Part 22(H), 24(E), 27(L), 27(H), 27(F), 27(N)
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Mar. 31, 2025 ~ Apr. 28, 2025

This product installed a RF module (Brand Name: Quectel, Model Name: BG95-M5, FCC ID: XMR202005BG95M5) during the test, only Conducted Power, ERP/EIRP and RSE test items are tested in this report, and partial bands verified the worst RSE cases, all the other test results are leveraged from module RF report.

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.



Approved by: Fly Liang



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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG512102	Rev. 01	Initial issue of report	Sep. 16, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	PASS	-
	§22.913(a)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt		-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 71) (Band 85)	ERP < 3 Watt		-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2) (Band 25)	EIRP < 2Watt		-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt		-
-	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	1
-	§2.1049	Occupied Bandwidth	-	Report Only	1
-	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66) (Band 71)(Band 85)	< 43+10log ₁₀ (P[Watts])	PASS	1
-	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66) (Band 71)(Band 85)	< 43+10log ₁₀ (P[Watts])	PASS	1
-	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	1
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66) (Band 71)(Band 85)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 2.44 dB at 2049.00 MHz

Remark 1:

The conducted test items were leverage from module RF report which can refer to Report No. R2108A0767-R1V1 (for LTE B5/26) & R2108A0767-R2V1 (for LTE B2/25) & R2108A0767-R4V1 (for LTE B4/12/13/66/85) & R2108A0767-R5V1 (for NB-IOT B5) & R2108A0767-R6V1 (for NB-IOT B2/25) & R2108A0767-R7V2 (for NB-IOT B4/12/13/66/71/85)

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Copeland Cold Chain LP.

6223 N Discovery Way, Park Pointe Center 1 , Suite 120 Boise ID 83713 United States

1.2 Manufacturer

ATR Manufacturing Ltd.

3/F, 28 Hung To Road Kwun Tong, Kowloon Hong Kong

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	GO Nano Gateway
Brand Name	Copeland
Model Name	NS-BCWE-00
FCC ID	AMHBCWE
IMEI Code	862044066560835
HW Version	0059 5563 Rev. 001
SW Version	32.0.0.0
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Category M1: LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 25 : 1850 MHz ~ 1915 MHz LTE Band 26 : 824 MHz ~ 849 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz LTE Band 85: 698 MHz ~ 716 MHz
	NB-IOT Category NB2: NB-IOT Band 2 : 1850 MHz ~ 1910 MHz NB-IOT Band 4 : 1710 MHz ~ 1755 MHz NB-IOT Band 5 : 824 MHz ~ 849 MHz NB-IOT Band 12 : 699 MHz ~ 716 MHz NB-IOT Band 13 : 777 MHz ~ 787 MHz NB-IOT Band 25 : 1850 MHz ~ 1915 MHz NB-IOT Band 66 : 1710 MHz ~ 1780 MHz NB-IOT Band 71: 663 MHz ~ 698 MHz NB-IOT Band 85: 698 MHz ~ 716 MHz



Rx Frequency	LTE Category M1: LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 25 : 1930 MHz ~ 1995 MHz LTE Band 26 : 869 MHz ~ 894 MHz LTE Band 66 : 2110 MHz~ 2180 MHz LTE Band 85 : 728 MHz ~ 746 MHz NB-IOT Category NB2: NB-IOT Band 2 : 1930 MHz ~ 1990 MHz NB-IOT Band 4 : 2110 MHz ~ 2155 MHz NB-IOT Band 5 : 869 MHz ~ 894 MHz NB-IOT Band 12 : 729 MHz ~ 746 MHz NB-IOT Band 13 : 746 MHz ~ 756 MHz NB-IOT Band 25 : 1930 MHz ~ 1995 MHz NB-IOT Band 66 : 2110 MHz~ 2180 MHz NB-IOT Band 71: 617 MHz ~ 652 MHz NB-IOT Band 85 : 728 MHz ~ 746 MHz
Bandwidth	LTE Category M1: LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 85 : 5MHz / 10MHz NB-IOT Category NB2: 200kHz
Sub-carrier Spacing	NB-IOT Category NB2: 3.75KHz /15 KHz
Maximum Output Power to Antenna	LTE Category M1: LTE Band 2 : 21.67 dBm LTE Band 4 : 21.63 dBm LTE Band 5 : 22.36 dBm LTE Band 12 : 22.22 dBm LTE Band 13 : 22.91 dBm LTE Band 25 : 21.68 dBm LTE Band 26 : 22.37 dBm LTE Band 66 : 22.99 dBm LTE Band 85 : 22.02 dBm NB-IOT Category NB2: NB-IOT Band 2 : 23.04 dBm NB-IOT Band 4 : 23.49 dBm NB-IOT Band 5 : 23.52 dBm NB-IOT Band 12 : 23.08 dBm NB-IOT Band 13 : 23.38 dBm NB-IOT Band 25 : 23.05 dBm NB-IOT Band 66 : 23.65 dBm NB-IOT Band 71 : 23.22 dBm NB-IOT Band 85 : 22.98 dBm
Antenna Gain	LTE Band 2 : 2 dBi LTE Band 4 : 1.6 dBi LTE Band 5 : 0.9 dBi

	LTE Band 12 : 0.9 dBi LTE Band 13 : 0.8 dBi LTE Band 25 : 2 dBi LTE Band 26 : 0.9 dBi LTE Band 66 : 2.5 dBi LTE Band 71 : 0.9 dBi LTE Band 85 : 0.9 dBi
Type of Modulation	LTE Category M1: QPSK / 16QAM NB-IOT Category NB2 : BPSK / QPSK

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP

LTE Category M1:

LTE Band 2		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	1850.7 ~ 1909.3	0.2138	0.2312
3	1851.5 ~ 1908.5	0.2138	0.2312
5	1852.5 ~ 1907.5	0.2128	0.2307
10	1855.0 ~ 1905.0	0.2143	0.2270
15	1857.5 ~ 1902.5	0.2123	0.2307
20	1860.0 ~ 1900.0	0.2158	0.2328
LTE Band 25		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	1850.7 ~ 1914.3	0.2042	0.2123
3	1851.5 ~ 1913.5	0.2065	0.2153
5	1852.5 ~ 1912.5	0.2080	0.2148
10	1855.0 ~ 1910.0	0.2056	0.2118
15	1857.5 ~ 1907.5	0.2042	0.2113
20	1860.0 ~ 1905.0	0.2094	0.2333



LTE Band 4		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	1710.7 ~ 1754.3	0.2018	0.2061
3	1711.5 ~ 1753.5	0.2009	0.2056
5	1712.5 ~ 1752.5	0.2018	0.2089
10	1715.0 ~ 1750.0	0.2004	0.2099
15	1717.5 ~ 1747.5	0.2037	0.2065
20	1720.0 ~ 1745.0	0.2042	0.2104
LTE Band 5		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)
1.4	824.7 ~ 848.3	0.1233	0.1276
3	825.5 ~ 847.5	0.1242	0.1276
5	826.5 ~ 846.5	0.1239	0.1282
10	829.0 ~ 844.0	0.1247	0.1291
LTE Band 12		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)
1.4	699.7 ~ 715.3	0.1167	0.1233
3	700.5 ~ 714.5	0.1159	0.1247
5	701.5 ~ 713.5	0.1169	0.1239
10	704.0 ~ 711.0	0.1172	0.1250
LTE Band 13		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)
5	779.5 ~ 784.5	0.1355	0.1429
10	782.0	0.1361	0.1432
LTE Band 26		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)
1.4	824.7 ~ 848.3	0.1153	0.1167
3	825.5 ~ 847.5	0.1151	0.1161
5	826.5 ~ 846.5	0.1146	0.1161
10	829.0 ~ 844.0	0.1138	0.1164
15	831.5 ~ 841.5	0.1143	0.1294
CH26790	824.0	0.1125	0.1156



LTE Band 66		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
1.4	1710.7 ~ 1779.3	0.3483	0.3516
3	1711.5 ~ 1778.5	0.3483	0.3508
5	1712.5 ~ 1777.5	0.3443	0.3540
10	1715.0 ~ 1775.0	0.3412	0.3436
15	1717.5 ~ 1772.5	0.3428	0.3516
20	1720.0 ~ 1770.0	0.3451	0.3459
LTE Band 85		QPSK	16QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)
5	700.5 ~ 713.5	0.1125	0.1191
10	703.0 ~ 711.0	0.1135	0.1194

Note:

1. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.
2. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
3. LTE Band 25 overlaps the entire frequency range of LTE Band 2. Therefore, the test results provided in this report covers Band 25 as well as Band 2.

NB-IOT Category NB2:

Band 2		BPSK/QPSK
Sub-carrier Spacing (KHz)	Frequency Range (MHz)	Maximum EIRP(W)
3.75	1850.1 ~ 1909.9	0.2891
15	1850.1 ~ 1909.9	0.3192
Band 25		BPSK/QPSK
Sub-carrier Spacing (KHz)	Frequency Range (MHz)	Maximum EIRP(W)
3.75	1850.1 ~ 1914.9	0.2754
15	1850.1 ~ 1914.9	0.3199
Band 4		BPSK/QPSK
Sub-carrier Spacing (KHz)	Frequency Range (MHz)	Maximum EIRP(W)
3.75	1710.1 ~ 1754.9	0.2754
15	1710.1 ~ 1754.9	0.3228



Band 5		BPSK/QPSK
Sub-carrier Spacing (KHz)	Frequency Range (MHz)	Maximum ERP(W)
3.75	824.1 ~ 848.9	0.1422
15	824.1 ~ 848.9	0.1687
Band 12		BPSK/QPSK
Sub-carrier Spacing (KHz)	Frequency Range (MHz)	Maximum ERP(W)
3.75	699.1 ~ 715.9	0.1247
15	699.1 ~ 715.9	0.1524
Band 13		BPSK/QPSK
Sub-carrier Spacing (KHz)	Frequency Range (MHz)	Maximum ERP(W)
3.75	777.1 ~ 786.9	0.1390
15	777.1 ~ 786.9	0.1596
Band 66		BPSK/QPSK
Sub-carrier Spacing (KHz)	Frequency Range (MHz)	Maximum EIRP(W)
3.75	1710.1 ~ 1779.9	0.4121
15	1710.1 ~ 1779.9	0.4083
Band 71		BPSK/QPSK
Sub-carrier Spacing (KHz)	Frequency Range (MHz)	Maximum ERP(W)
3.75	663.1 ~ 697.9	0.1355
15	663.1 ~ 697.9	0.1574
Band 85		BPSK/QPSK
Sub-carrier Spacing (KHz)	Frequency Range (MHz)	Maximum ERP(W)
3.75	698.1 ~ 715.9	0.1349
15	698.1 ~ 715.9	0.1489

Note:

1. LTE Band 25 overlaps the entire frequency range of LTE Band 2. Therefore, the test results provided in this report covers Band 25 as well as Band 2.

1.7 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ; 03CH02-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 22(H), 24(E), 27(L), 27(H), 27(F), 27(N)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

For radiated measurements, pre-scanned antenna at two angles in X plane: 90 and 180 degrees, with or without accessory. The worst cases (antenna angle 180 degrees with accessory) were recorded in this report.

LTE Category M1:

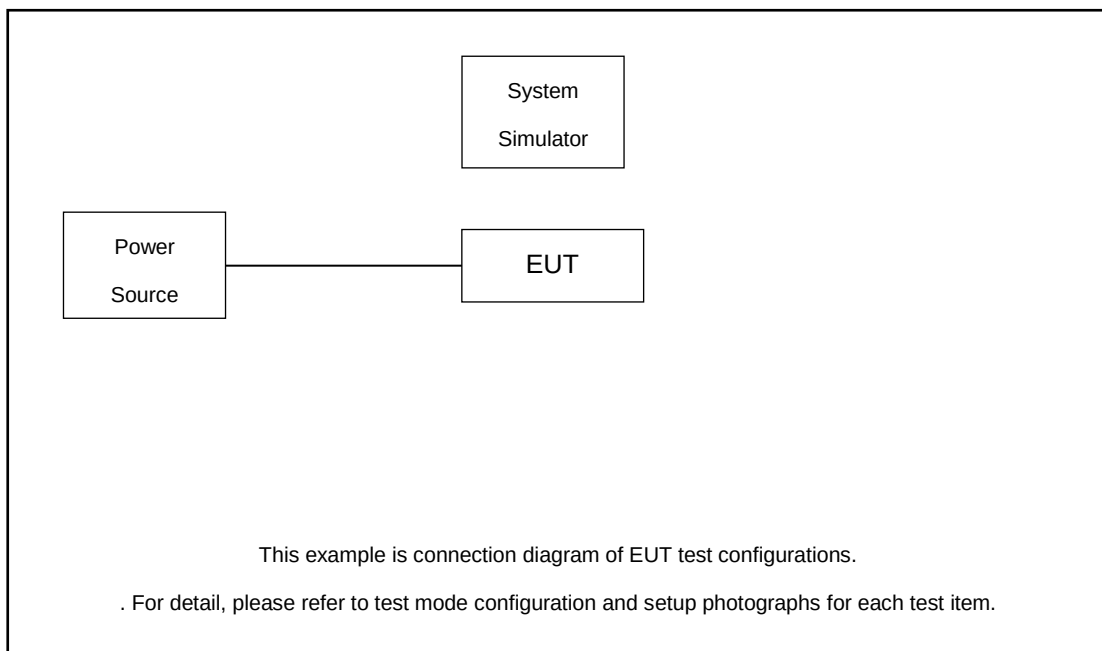
Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	-	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	26	v	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
	85	-	-	v	v	-	-	v	v	-	v	v	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
	12	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	-	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	26	v	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
	85	-	-	v	v	-	-	v	v	-	v	v	v	v	v	v
Radiated Spurious Emission	2	Worst Case												v	v	v
	4	Worst Case												v	v	v
	5	Worst Case												v	v	v
	12	Worst Case												v	v	v
	13	Worst Case												v	v	v
	25	Worst Case												v	v	v
	26	Worst Case												v	v	v
	66	Worst Case												v	v	v
	85	Worst Case												v	v	v
Note	1. The mark “v ” means that this configuration is chosen for testing															
	2. The mark “-” means that this bandwidth is not supported.															
	3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.															



NB-IOT Category NB2:

Test Items	Band	Sub-carrier Spacing(KHz)		Modulation			RB #			Test Channel		
		3.75	15	BPSK	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	-	v		v	v	v	v
	4	v	v	v	v	-	v		v	v	v	v
	5	v	v	v	v	-	v		v	v	v	v
	12	v	v	v	v	-	v		v	v	v	v
	13	v	v	v	v	-	v		v	v	v	v
	25	v	v	v	v	-	v		v	v	v	v
	66	v	v	v	v	-	v		v	v	v	v
	71	v	v	v	v	-	v		v	v	v	v
	85	v	v	v	v	-	v		v	v	v	v
E.R.P / E.I.R.P	2	v	v	v	v	-	v		v	v	v	v
	4	v	v	v	v	-	v		v	v	v	v
	5	v	v	v	v	-	v		v	v	v	v
	12	v	v	v	v	-	v		v	v	v	v
	13	v	v	v	v	-	v		v	v	v	v
	25	v	v	v	v	-	v		v	v	v	v
	66	v	v	v	v	-	v		v	v	v	v
	71	v	v	v	v	-	v		v	v	v	v
	85	v	v	v	v	-	v		v	v	v	v
Radiated Spurious Emission	2	Worst Case								v	v	v
	4	Worst Case								v	v	v
	5	Worst Case								v	v	v
	12	Worst Case								v	v	v
	13	Worst Case								v	v	v
	25	Worst Case								v	v	v
	66	Worst Case								v	v	v
	71	Worst Case								v	v	v
	85	Worst Case								v	v	v
Note	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.											

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m



2.4 Frequency List of Low/Middle/High Channels

LTE Category M1:

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5



LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3

LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

LTE Band 85 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	134052	134092	134132
	Frequency	703	707	711
5	Channel	134027	134092	134157
	Frequency	700.5	707	713.5

NB-IOT Category NB2:

Band 2 Channel and Frequency List				
Sub-carrier Speacing (kHz)	Channel / Frequency (MHz)	Lowest	Middle	Highest
3.75	Channel	18601	18900	19199
	Frequency	1850.1	1880	1909.9
15	Channel	18601	18900	19199
	Frequency	1850.1	1880	1909.9

Band 4 Channel and Frequency List				
Sub-carrier Spacing (kHz)	Channel / Frequency (MHz)	Lowest	Middle	Highest
3.75	Channel	19952	20175	20398
	Frequency	1710.2	1732.5	1754.8
15	Channel	19952	20175	20398
	Frequency	1710.2	1732.5	1754.8

Band 5 Channel and Frequency List				
Sub-carrier Spacing (kHz)	Channel / Frequency (MHz)	Lowest	Middle	Highest
3.75	Channel	20410	20525	20649
	Frequency	824.1	836.5	848.9
15	Channel	20410	20525	20649
	Frequency	824.1	836.5	848.9

Band 12 Channel and Frequency List				
Sub-carrier Spacing (kHz)	Channel / Frequency (MHz)	Lowest	Middle	Highest
3.75	Channel	23011	23095	23179
	Frequency	699.1	707.5	715.9
15	Channel	23011	23095	23179
	Frequency	699.1	707.5	715.9

Band 13 Channel and Frequency List				
Sub-carrier Spacing (kHz)	Channel / Frequency (MHz)	Lowest	Middle	Highest
3.75	Channel	23181	23230	23279
	Frequency	777.1	782	786.9
15	Channel	23181	23230	23279
	Frequency	777.1	782	786.9



Band 25 Channel and Frequency List				
Sub-carrier Speacing (kHz)	Channel / Frequency (MHz)	Lowest	Middle	Highest
3.75	Channel	26041	26365	26689
	Frequency	1850.1	1882.5	1914.9
15	Channel	26041	26365	26689
	Frequency	1850.1	1882.5	1914.9

Band 66 Channel and Frequency List				
Sub-carrier Speacing (kHz)	Channel / Frequency (MHz)	Lowest	Middle	Highest
3.75	Channel	131973	132322	132671
	Frequency	1710.1	1745	1779.9
15	Channel	131973	132322	132671
	Frequency	1710.1	1745	1779.9

Band 71 Channel and Frequency List				
Sub-carrier Speacing (kHz)	Channel / Frequency (MHz)	Lowest	Middle	Highest
3.75	Channel	133122	133322	133471
	Frequency	663.1	683	697.9
15	Channel	133122	133322	133471
	Frequency	663.1	683	697.9

Band 85 Channel and Frequency List				
Sub-carrier Speacing (kHz)	Channel / Frequency (MHz)	Lowest	Middle	Highest
3.75	Channel	134002	134092	134181
	Frequency	698.1	707	715.9
15	Channel	134002	134092	134181
	Frequency	698.1	707	715.9

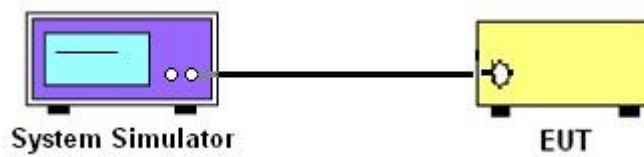
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

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

The ERP of mobile transmitters must not exceed 7 Watts for Band 5 and Band 26.

The ERP of mobile transmitters must not exceed 3 Watts for Band 12, Band 13, Band 71 and Band 85.

The EIRP of mobile transmitters must not exceed 2 Watts for Band 2 and Band 25

The EIRP of mobile transmitters must not exceed 1 Watts for Band 4 and Band 66.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

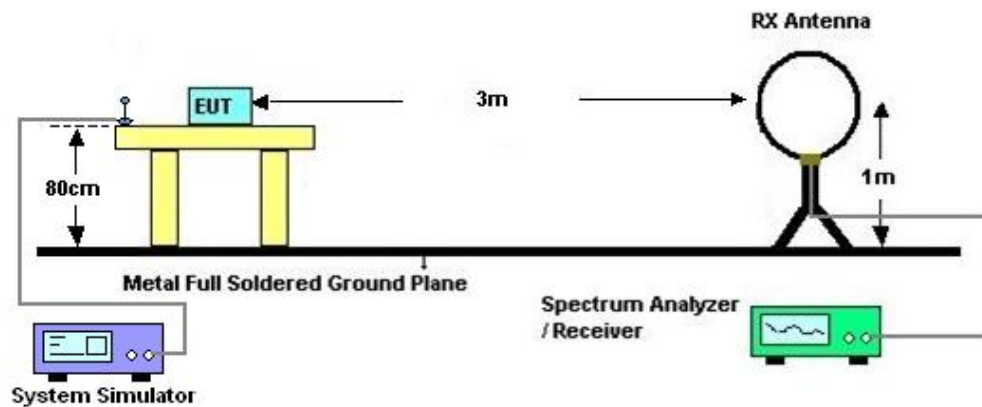
4 Radiated Test Items

4.1 Measuring Instruments

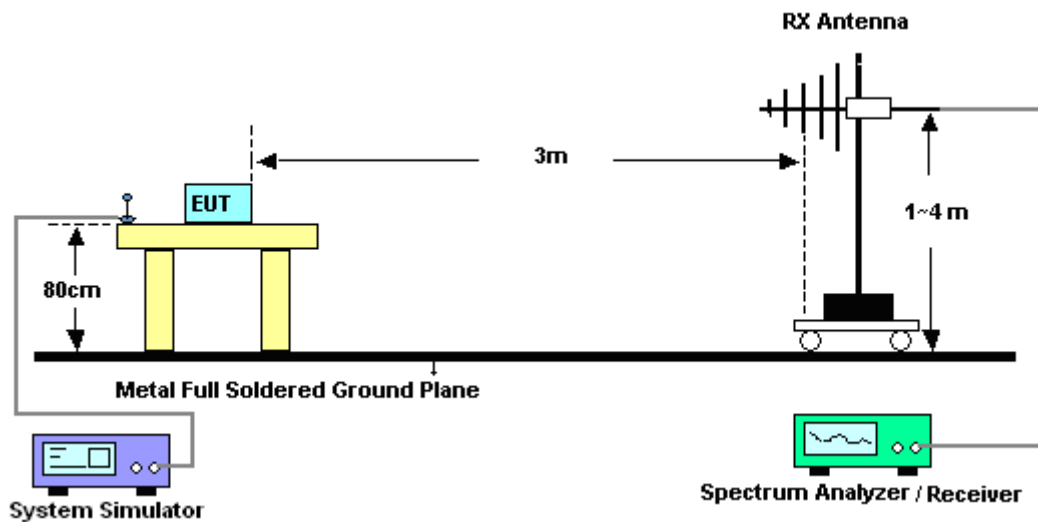
See list of measuring instruments of this test report.

4.2 Test Setup

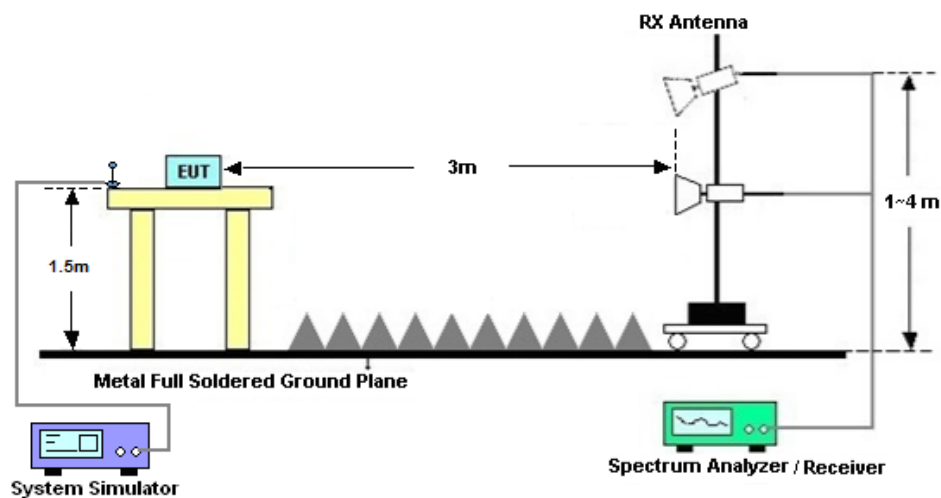
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11. $\text{ERP (dBm)} = \text{EIRP} - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Apr. 27, 2025~ Apr. 28, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Power Divider	Titan	P02N00518 0	923402	0.4GHz~26.5GHz	Nov. 08, 2024	Apr. 27, 2025~ Apr. 28, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Apr. 27, 2025~ Apr. 28, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Mar. 31, 2025~ Apr. 03, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Mar. 31, 2025~ Apr. 03, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Mar. 31, 2025~ Apr. 03, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Mar. 31, 2025~ Apr. 03, 2025	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Mar. 31, 2025~ Apr. 03, 2025	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 03, 2024	Mar. 31, 2025~ Apr. 03, 2025	Apr. 02, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 02, 2025		Apr. 01, 2026	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz~3GHz	Dec. 25, 2024	Mar. 31, 2025~ Apr. 03, 2025	Dec. 24, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Mar. 31, 2025~ Apr. 03, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Mar. 31, 2025~ Apr. 03, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Mar. 31, 2025~ Apr. 03, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Mar. 31, 2025~ Apr. 03, 2025	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required



6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.47 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.31 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.72 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Khan Zhen	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and ERP/EIRP

LTE Cat M1:

LTE Band 2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900	L	M	H
20	QPSK	1	0	21.14	21.29	21.34	0.2061	0.2133	0.2158
20	QPSK	1	5	20.92	21.15	21.15	0.1959	0.2065	0.2065
20	QPSK	3	0	21.10	21.25	21.27	0.2042	0.2113	0.2123
20	QPSK	3	3	20.93	21.10	21.09	0.1963	0.2042	0.2037
20	QPSK	6	0	21.05	21.19	21.14	0.2018	0.2084	0.2061
20	16QAM	1	0	21.42	21.66	21.67	0.2198	0.2323	0.2328
20	16QAM	1	5	21.27	21.51	21.49	0.2123	0.2244	0.2234
20	16QAM	3	0	21.19	21.36	21.32	0.2084	0.2168	0.2148
20	16QAM	3	3	21.07	21.30	21.27	0.2028	0.2138	0.2123
20	16QAM	6	0	21.26	21.43	21.38	0.2118	0.2203	0.2178
Channel				18675	18900	19125	EIRP(W)		
Frequency (MHz)				1857.5	1880	1902.5	L	M	H
15	QPSK	1	0	21.03	21.27	21.23	0.2009	0.2123	0.2104
15	QPSK	1	5	20.85	21.12	21.12	0.1928	0.2051	0.2051
15	QPSK	3	0	21.09	21.18	21.24	0.2037	0.2080	0.2109
15	QPSK	3	3	20.90	21.04	21.00	0.1950	0.2014	0.1995
15	QPSK	6	0	21.02	21.13	21.04	0.2004	0.2056	0.2014
15	16QAM	1	0	21.40	21.63	21.57	0.2188	0.2307	0.2275
15	16QAM	1	5	21.21	21.50	21.38	0.2094	0.2239	0.2178
15	16QAM	3	0	21.08	21.25	21.21	0.2032	0.2113	0.2094
15	16QAM	3	3	21.02	21.28	21.17	0.2004	0.2128	0.2075
15	16QAM	6	0	21.15	21.34	21.28	0.2065	0.2158	0.2128
Channel				18650	18900	19150	EIRP(W)		
Frequency (MHz)				1855	1880	1905	L	M	H
10	QPSK	1	0	21.05	21.18	21.31	0.2018	0.2080	0.2143
10	QPSK	1	5	20.83	21.07	21.11	0.1919	0.2028	0.2046
10	QPSK	3	0	21.05	21.20	21.24	0.2018	0.2089	0.2109
10	QPSK	3	3	20.88	21.01	20.98	0.1941	0.2000	0.1986
10	QPSK	6	0	20.97	21.15	21.09	0.1982	0.2065	0.2037
10	16QAM	1	0	21.35	21.55	21.56	0.2163	0.2265	0.2270



10	16QAM	1	5	21.25	21.50	21.39	0.2113	0.2239	0.2183
10	16QAM	3	0	21.18	21.30	21.24	0.2080	0.2138	0.2109
10	16QAM	3	3	21.05	21.25	21.26	0.2018	0.2113	0.2118
10	16QAM	6	0	21.16	21.33	21.34	0.2070	0.2153	0.2158
Channel				18625	18900	19175	EIRP(W)		
Frequency (MHz)				1852.5	1880	1907.5	L	M	H
5	QPSK	1	0	21.06	21.21	21.28	0.2023	0.2094	0.2128
5	QPSK	1	5	20.83	21.05	21.11	0.1919	0.2018	0.2046
5	QPSK	3	0	21.02	21.20	21.21	0.2004	0.2089	0.2094
5	QPSK	3	3	20.92	21.06	21.08	0.1959	0.2023	0.2032
5	QPSK	6	0	21.02	21.10	21.06	0.2004	0.2042	0.2023
5	16QAM	1	0	21.32	21.58	21.63	0.2148	0.2280	0.2307
5	16QAM	1	5	21.23	21.48	21.48	0.2104	0.2228	0.2228
5	16QAM	3	0	21.13	21.33	21.24	0.2056	0.2153	0.2109
5	16QAM	3	3	20.96	21.22	21.24	0.1977	0.2099	0.2109
5	16QAM	6	0	21.24	21.35	21.28	0.2109	0.2163	0.2128
Channel				18615	18900	19185	EIRP(W)		
Frequency (MHz)				1851.5	1880	1908.5	L	M	H
3	QPSK	1	0	21.08	21.28	21.30	0.2032	0.2128	0.2138
3	QPSK	1	5	20.84	21.11	21.06	0.1923	0.2046	0.2023
3	QPSK	3	0	21.09	21.17	21.18	0.2037	0.2075	0.2080
3	QPSK	3	3	20.89	21.02	21.02	0.1945	0.2004	0.2004
3	QPSK	6	0	20.97	21.17	21.03	0.1982	0.2075	0.2009
3	16QAM	1	0	21.32	21.64	21.61	0.2148	0.2312	0.2296
3	16QAM	1	5	21.19	21.50	21.45	0.2084	0.2239	0.2213
3	16QAM	3	0	21.08	21.34	21.22	0.2032	0.2158	0.2099
3	16QAM	3	3	21.03	21.21	21.21	0.2009	0.2094	0.2094
3	16QAM	6	0	21.18	21.36	21.36	0.2080	0.2168	0.2168
Channel				18607	18900	19193	EIRP(W)		
Frequency (MHz)				1850.7	1880	1909.3	L	M	H
1.4	QPSK	1	0	21.08	21.18	21.30	0.2032	0.2080	0.2138
1.4	QPSK	1	5	20.85	21.06	21.10	0.1928	0.2023	0.2042
1.4	QPSK	3	0	20.99	21.23	21.20	0.1991	0.2104	0.2089
1.4	QPSK	3	3	20.91	21.01	21.06	0.1954	0.2000	0.2023
1.4	QPSK	6	0	20.97	21.18	21.09	0.1982	0.2080	0.2037
1.4	16QAM	1	0	21.31	21.64	21.57	0.2143	0.2312	0.2275
1.4	16QAM	1	5	21.26	21.49	21.41	0.2118	0.2234	0.2193
1.4	16QAM	3	0	21.09	21.33	21.29	0.2037	0.2153	0.2133
1.4	16QAM	3	3	21.03	21.29	21.26	0.2009	0.2133	0.2118
1.4	16QAM	6	0	21.18	21.32	21.33	0.2080	0.2148	0.2153



LTE Band 4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745	L	M	H
20	QPSK	1	0	21.50	21.40	21.33	0.2042	0.1995	0.1963
20	QPSK	1	5	21.22	21.22	21.07	0.1914	0.1914	0.1849
20	QPSK	3	0	21.43	21.39	21.29	0.2009	0.1991	0.1945
20	QPSK	3	3	21.29	21.27	21.17	0.1945	0.1936	0.1892
20	QPSK	6	0	21.43	21.38	21.22	0.2009	0.1986	0.1914
20	16QAM	1	0	21.63	21.54	21.44	0.2104	0.2061	0.2014
20	16QAM	1	5	21.50	21.42	21.32	0.2042	0.2004	0.1959
20	16QAM	3	0	21.31	21.28	21.13	0.1954	0.1941	0.1875
20	16QAM	3	3	21.35	21.28	21.13	0.1972	0.1941	0.1875
20	16QAM	6	0	21.45	21.39	21.27	0.2018	0.1991	0.1936
Channel				20025	20175	20325	EIRP(W)		
Frequency (MHz)				1717.5	1732.5	1747.5	L	M	H
15	QPSK	1	0	21.49	21.37	21.28	0.2037	0.1982	0.1941
15	QPSK	1	5	21.20	21.21	20.99	0.1905	0.1910	0.1816
15	QPSK	3	0	21.40	21.36	21.21	0.1995	0.1977	0.1910
15	QPSK	3	3	21.28	21.16	21.08	0.1941	0.1888	0.1854
15	QPSK	6	0	21.35	21.31	21.20	0.1972	0.1954	0.1905
15	16QAM	1	0	21.55	21.44	21.35	0.2065	0.2014	0.1972
15	16QAM	1	5	21.39	21.36	21.22	0.1991	0.1977	0.1914
15	16QAM	3	0	21.23	21.25	21.05	0.1919	0.1928	0.1841
15	16QAM	3	3	21.28	21.25	21.05	0.1941	0.1928	0.1841
15	16QAM	6	0	21.43	21.29	21.23	0.2009	0.1945	0.1919
Channel				20000	20175	20350	EIRP(W)		
Frequency (MHz)				1715	1732.5	1750	L	M	H
10	QPSK	1	0	21.42	21.34	21.28	0.2004	0.1968	0.1941
10	QPSK	1	5	21.13	21.13	20.98	0.1875	0.1875	0.1811
10	QPSK	3	0	21.36	21.32	21.24	0.1977	0.1959	0.1923
10	QPSK	3	3	21.18	21.23	21.07	0.1897	0.1919	0.1849
10	QPSK	6	0	21.39	21.28	21.17	0.1991	0.1941	0.1892
10	16QAM	1	0	21.62	21.53	21.42	0.2099	0.2056	0.2004
10	16QAM	1	5	21.43	21.37	21.22	0.2009	0.1982	0.1914
10	16QAM	3	0	21.20	21.19	21.11	0.1905	0.1901	0.1866
10	16QAM	3	3	21.25	21.27	21.07	0.1928	0.1936	0.1849
10	16QAM	6	0	21.43	21.31	21.19	0.2009	0.1954	0.1901
Channel				19975	20175	20375	EIRP(W)		
Frequency (MHz)				1712.5	1732.5	1752.5	L	M	H
5	QPSK	1	0	21.45	21.36	21.28	0.2018	0.1977	0.1941
5	QPSK	1	5	21.15	21.15	20.99	0.1884	0.1884	0.1816
5	QPSK	3	0	21.33	21.31	21.20	0.1963	0.1954	0.1905
5	QPSK	3	3	21.24	21.24	21.09	0.1923	0.1923	0.1858



5	QPSK	6	0	21.37	21.33	21.19	0.1982	0.1963	0.1901
5	16QAM	1	0	21.60	21.43	21.36	0.2089	0.2009	0.1977
5	16QAM	1	5	21.42	21.33	21.29	0.2004	0.1963	0.1945
5	16QAM	3	0	21.28	21.26	21.12	0.1941	0.1932	0.1871
5	16QAM	3	3	21.30	21.26	21.08	0.1950	0.1932	0.1854
5	16QAM	6	0	21.34	21.30	21.22	0.1968	0.1950	0.1914
Channel				19965	20175	20385	EIRP(W)		
Frequency (MHz)				1711.5	1732.5	1753.5	L	M	H
3	QPSK	1	0	21.43	21.38	21.32	0.2009	0.1986	0.1959
3	QPSK	1	5	21.13	21.12	21.04	0.1875	0.1871	0.1837
3	QPSK	3	0	21.41	21.30	21.22	0.2000	0.1950	0.1914
3	QPSK	3	3	21.28	21.26	21.06	0.1941	0.1932	0.1845
3	QPSK	6	0	21.42	21.37	21.16	0.2004	0.1982	0.1888
3	16QAM	1	0	21.53	21.52	21.43	0.2056	0.2051	0.2009
3	16QAM	1	5	21.39	21.37	21.21	0.1991	0.1982	0.1910
3	16QAM	3	0	21.25	21.22	21.12	0.1928	0.1914	0.1871
3	16QAM	3	3	21.24	21.26	21.02	0.1923	0.1932	0.1828
3	16QAM	6	0	21.38	21.31	21.17	0.1986	0.1954	0.1892
Channel				19950	20175	20393	EIRP(W)		
Frequency (MHz)				1710	1732.5	1754.3	L	M	H
1.4	QPSK	1	0	21.45	21.35	21.24	0.2018	0.1972	0.1923
1.4	QPSK	1	5	21.11	21.11	21.02	0.1866	0.1866	0.1828
1.4	QPSK	3	0	21.40	21.35	21.21	0.1995	0.1972	0.1910
1.4	QPSK	3	3	21.21	21.18	21.13	0.1910	0.1897	0.1875
1.4	QPSK	6	0	21.36	21.34	21.18	0.1977	0.1968	0.1897
1.4	16QAM	1	0	21.54	21.45	21.43	0.2061	0.2018	0.2009
1.4	16QAM	1	5	21.47	21.31	21.21	0.2028	0.1954	0.1910
1.4	16QAM	3	0	21.29	21.27	21.11	0.1945	0.1936	0.1866
1.4	16QAM	3	3	21.34	21.17	21.06	0.1968	0.1892	0.1845
1.4	16QAM	6	0	21.40	21.33	21.22	0.1995	0.1963	0.1914

LTE Band 5:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844	L	M	H
10	QPSK	1	0	21.99	22.21	22.05	0.1186	0.1247	0.1202
10	QPSK	1	5	21.76	22.02	21.80	0.1125	0.1194	0.1135
10	QPSK	3	0	21.89	22.13	21.90	0.1159	0.1225	0.1161
10	QPSK	3	3	21.74	22.02	21.88	0.1119	0.1194	0.1156
10	QPSK	6	0	21.25	21.47	21.29	0.1000	0.1052	0.1009
10	16QAM	1	0	22.06	22.36	22.17	0.1205	0.1291	0.1236
10	16QAM	1	5	21.72	22.02	21.84	0.1114	0.1194	0.1146
10	16QAM	3	0	21.68	21.91	21.67	0.1104	0.1164	0.1102
10	16QAM	3	3	21.74	22.01	21.81	0.1119	0.1191	0.1138



10	16QAM	6	0	21.26	21.48	21.28	0.1002	0.1054	0.1007
Channel				20425	20525	20625	ERP(W)		
Frequency (MHz)				826.5	836.5	846.5	L	M	H
5	QPSK	1	0	21.98	22.18	21.95	0.1183	0.1239	0.1175
5	QPSK	1	5	21.68	21.92	21.73	0.1104	0.1167	0.1117
5	QPSK	3	0	21.85	22.03	21.87	0.1148	0.1197	0.1153
5	QPSK	3	3	21.67	22.00	21.86	0.1102	0.1189	0.1151
5	QPSK	6	0	21.23	21.37	21.22	0.0995	0.1028	0.0993
5	16QAM	1	0	22.03	22.33	22.06	0.1197	0.1282	0.1205
5	16QAM	1	5	21.64	22.00	21.80	0.1094	0.1189	0.1135
5	16QAM	3	0	21.63	21.88	21.57	0.1091	0.1156	0.1076
5	16QAM	3	3	21.66	21.97	21.78	0.1099	0.1180	0.1130
5	16QAM	6	0	21.20	21.47	21.26	0.0989	0.1052	0.1002
Channel				20415	20525	20635	ERP(W)		
Frequency (MHz)				825.5	836.5	847.5	L	M	H
3	QPSK	1	0	21.88	22.19	22.03	0.1156	0.1242	0.1197
3	QPSK	1	5	21.74	21.92	21.72	0.1119	0.1167	0.1114
3	QPSK	3	0	21.82	22.04	21.89	0.1140	0.1199	0.1159
3	QPSK	3	3	21.66	21.92	21.82	0.1099	0.1167	0.1140
3	QPSK	6	0	21.21	21.46	21.28	0.0991	0.1050	0.1007
3	16QAM	1	0	22.02	22.31	22.13	0.1194	0.1276	0.1225
3	16QAM	1	5	21.63	21.93	21.83	0.1091	0.1169	0.1143
3	16QAM	3	0	21.59	21.90	21.59	0.1081	0.1161	0.1081
3	16QAM	3	3	21.65	21.90	21.80	0.1096	0.1161	0.1135
3	16QAM	6	0	21.19	21.46	21.17	0.0986	0.1050	0.0982
Channel				20407	20525	20643	ERP(W)		
Frequency (MHz)				824.7	836.5	848.3	L	M	H
1.4	QPSK	1	0	21.92	22.16	22.01	0.1167	0.1233	0.1191
1.4	QPSK	1	5	21.74	21.93	21.77	0.1119	0.1169	0.1127
1.4	QPSK	3	0	21.80	22.10	21.89	0.1135	0.1216	0.1159
1.4	QPSK	3	3	21.67	22.01	21.81	0.1102	0.1191	0.1138
1.4	QPSK	6	0	21.14	21.37	21.27	0.0975	0.1028	0.1005
1.4	16QAM	1	0	22.01	22.31	22.16	0.1191	0.1276	0.1233
1.4	16QAM	1	5	21.62	21.98	21.75	0.1089	0.1183	0.1122
1.4	16QAM	3	0	21.57	21.85	21.57	0.1076	0.1148	0.1076
1.4	16QAM	3	3	21.68	22.00	21.76	0.1104	0.1189	0.1125
1.4	16QAM	6	0	21.22	21.46	21.27	0.0993	0.1050	0.1005



LTE Band 12:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711	L	M	H
10	QPSK	1	0	21.88	21.94	21.90	0.1156	0.1172	0.1161
10	QPSK	1	5	21.73	21.76	21.65	0.1117	0.1125	0.1096
10	QPSK	3	0	21.85	21.86	21.78	0.1148	0.1151	0.1130
10	QPSK	3	3	21.71	21.73	21.66	0.1112	0.1117	0.1099
10	QPSK	6	0	21.10	21.18	21.14	0.0966	0.0984	0.0975
10	16QAM	1	0	22.14	22.22	22.15	0.1227	0.1250	0.1230
10	16QAM	1	5	21.99	22.04	21.99	0.1186	0.1199	0.1186
10	16QAM	3	0	21.93	21.98	21.92	0.1169	0.1183	0.1167
10	16QAM	3	3	21.81	21.85	21.80	0.1138	0.1148	0.1135
10	16QAM	6	0	21.27	21.29	21.18	0.1005	0.1009	0.0984
Channel				23035	23095	23155	ERP(W)		
Frequency (MHz)				701.5	707.5	713.5	L	M	H
5	QPSK	1	0	21.84	21.93	21.84	0.1146	0.1169	0.1146
5	QPSK	1	5	21.64	21.67	21.58	0.1094	0.1102	0.1079
5	QPSK	3	0	21.83	21.76	21.74	0.1143	0.1125	0.1119
5	QPSK	3	3	21.65	21.70	21.56	0.1096	0.1109	0.1074
5	QPSK	6	0	21.00	21.16	21.05	0.0944	0.0979	0.0955
5	16QAM	1	0	22.07	22.18	22.07	0.1208	0.1239	0.1208
5	16QAM	1	5	21.91	21.97	21.96	0.1164	0.1180	0.1178
5	16QAM	3	0	21.90	21.88	21.91	0.1161	0.1156	0.1164
5	16QAM	3	3	21.73	21.82	21.73	0.1117	0.1140	0.1117
5	16QAM	6	0	21.16	21.23	21.07	0.0979	0.0995	0.0959
Channel				23025	23095	23165	ERP(W)		
Frequency (MHz)				700.5	707.5	714.5	L	M	H
3	QPSK	1	0	21.84	21.89	21.87	0.1146	0.1159	0.1153
3	QPSK	1	5	21.63	21.72	21.57	0.1091	0.1114	0.1076
3	QPSK	3	0	21.75	21.76	21.70	0.1122	0.1125	0.1109
3	QPSK	3	3	21.68	21.68	21.59	0.1104	0.1104	0.1081
3	QPSK	6	0	21.02	21.17	21.05	0.0948	0.0982	0.0955
3	16QAM	1	0	22.11	22.21	22.12	0.1219	0.1247	0.1222
3	16QAM	1	5	21.95	21.93	21.96	0.1175	0.1169	0.1178
3	16QAM	3	0	21.85	21.93	21.84	0.1148	0.1169	0.1146
3	16QAM	3	3	21.74	21.76	21.76	0.1119	0.1125	0.1125
3	16QAM	6	0	21.20	21.20	21.17	0.0989	0.0989	0.0982
Channel				23017	23095	23173	ERP(W)		
Frequency (MHz)				699.7	707.5	715.3	L	M	H
1.4	QPSK	1	0	21.79	21.92	21.85	0.1132	0.1167	0.1148
1.4	QPSK	1	5	21.67	21.68	21.64	0.1102	0.1104	0.1094
1.4	QPSK	3	0	21.78	21.81	21.73	0.1130	0.1138	0.1117
1.4	QPSK	3	3	21.69	21.62	21.63	0.1107	0.1089	0.1091



1.4	QPSK	6	0	21.06	21.09	21.08	0.0957	0.0964	0.0962
1.4	16QAM	1	0	22.10	22.16	22.13	0.1216	0.1233	0.1225
1.4	16QAM	1	5	21.95	21.93	21.95	0.1175	0.1169	0.1175
1.4	16QAM	3	0	21.85	21.89	21.89	0.1148	0.1159	0.1159
1.4	16QAM	3	3	21.73	21.81	21.75	0.1117	0.1138	0.1122
1.4	16QAM	6	0	21.19	21.25	21.17	0.0986	0.1000	0.0982

LTE Band 13:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23230					
Frequency (MHz)				782					
10	QPSK	1	0		22.68			0.1358	
10	QPSK	1	5		22.40			0.1274	
10	QPSK	3	0		22.69			0.1361	
10	QPSK	3	3		22.59			0.1330	
10	QPSK	6	0		22.01			0.1164	
10	16QAM	1	0		22.91			0.1432	
10	16QAM	1	5		22.49			0.1300	
10	16QAM	3	0		22.40			0.1274	
10	16QAM	3	3		22.70			0.1365	
10	16QAM	6	0		22.15			0.1202	
Channel				23205	23230	23255	ERP(W)		
Frequency (MHz)				779.5	782	784.5	L	M	H
5	QPSK	1	0	22.67	22.58	22.63	0.1355	0.1327	0.1343
5	QPSK	1	5	22.34	22.34	22.32	0.1256	0.1256	0.1250
5	QPSK	3	0	22.67	22.67	22.63	0.1355	0.1355	0.1343
5	QPSK	3	3	22.54	22.54	22.58	0.1315	0.1315	0.1327
5	QPSK	6	0	21.99	21.98	21.97	0.1159	0.1156	0.1153
5	16QAM	1	0	22.83	22.90	22.89	0.1406	0.1429	0.1426
5	16QAM	1	5	22.43	22.38	22.38	0.1282	0.1268	0.1268
5	16QAM	3	0	22.35	22.29	22.31	0.1259	0.1242	0.1247
5	16QAM	3	3	22.61	22.62	22.61	0.1337	0.1340	0.1337
5	16QAM	6	0	22.08	22.11	22.14	0.1183	0.1191	0.1199



LTE Band 25:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				26140	26340	26590			
Frequency (MHz)				1860	1880	1905	L	M	H
20	QPSK	1	0	21.04	21.21	20.93	0.2014	0.2094	0.1963
20	QPSK	1	5	20.72	20.99	20.64	0.1871	0.1991	0.1837
20	QPSK	3	0	20.87	21.08	20.78	0.1936	0.2032	0.1897
20	QPSK	3	3	20.75	20.97	20.63	0.1884	0.1982	0.1832
20	QPSK	6	0	20.81	21.06	20.73	0.1910	0.2023	0.1875
20	16QAM	1	0	21.10	21.68	21.05	0.2042	0.2333	0.2018
20	16QAM	1	5	21.07	21.26	20.99	0.2028	0.2118	0.1991
20	16QAM	3	0	20.94	21.18	20.83	0.1968	0.2080	0.1919
20	16QAM	3	3	20.81	21.03	20.73	0.1910	0.2009	0.1875
20	16QAM	6	0	20.98	21.20	20.88	0.1986	0.2089	0.1941
Channel				26115	26340	26615	EIRP(W)		
Frequency (MHz)				1857.5	1880	1907.5	L	M	H
15	QPSK	1	0	20.93	21.10	20.92	0.1963	0.2042	0.1959
15	QPSK	1	5	20.67	20.98	20.54	0.1849	0.1986	0.1795
15	QPSK	3	0	20.83	21.00	20.76	0.1919	0.1995	0.1888
15	QPSK	3	3	20.67	20.86	20.54	0.1849	0.1932	0.1795
15	QPSK	6	0	20.78	21.00	20.65	0.1897	0.1995	0.1841
15	16QAM	1	0	21.06	21.24	21.00	0.2023	0.2109	0.1995
15	16QAM	1	5	21.02	21.25	20.90	0.2004	0.2113	0.1950
15	16QAM	3	0	20.89	21.12	20.81	0.1945	0.2051	0.1910
15	16QAM	3	3	20.80	20.93	20.69	0.1905	0.1963	0.1858
15	16QAM	6	0	20.93	21.10	20.83	0.1963	0.2042	0.1919
Channel				26090	26340	26640	EIRP(W)		
Frequency (MHz)				1855	1880	1910	L	M	H
10	QPSK	1	0	20.95	21.13	20.90	0.1972	0.2056	0.1950
10	QPSK	1	5	20.63	20.93	20.53	0.1832	0.1963	0.1791
10	QPSK	3	0	20.82	21.05	20.72	0.1914	0.2018	0.1871
10	QPSK	3	3	20.72	20.93	20.60	0.1871	0.1963	0.1820
10	QPSK	6	0	20.80	21.01	20.63	0.1905	0.2000	0.1832
10	16QAM	1	0	21.07	21.26	20.98	0.2028	0.2118	0.1986
10	16QAM	1	5	20.97	21.18	20.91	0.1982	0.2080	0.1954
10	16QAM	3	0	20.93	21.16	20.81	0.1963	0.2070	0.1910
10	16QAM	3	3	20.72	21.02	20.64	0.1871	0.2004	0.1837
10	16QAM	6	0	20.87	21.14	20.78	0.1936	0.2061	0.1897
Channel				26065	26340	26665	EIRP(W)		
Frequency (MHz)				1852.5	1880	1912.5	L	M	H
5	QPSK	1	0	20.99	21.18	20.85	0.1991	0.2080	0.1928
5	QPSK	1	5	20.67	20.95	20.60	0.1849	0.1972	0.1820
5	QPSK	3	0	20.77	21.07	20.76	0.1892	0.2028	0.1888
5	QPSK	3	3	20.66	20.87	20.58	0.1845	0.1936	0.1811



5	QPSK	6	0	20.78	21.04	20.70	0.1897	0.2014	0.1862
5	16QAM	1	0	21.05	21.32	20.99	0.2018	0.2148	0.1991
5	16QAM	1	5	21.04	21.21	20.96	0.2014	0.2094	0.1977
5	16QAM	3	0	20.86	21.07	20.82	0.1932	0.2028	0.1914
5	16QAM	3	3	20.77	20.97	20.67	0.1892	0.1982	0.1849
5	16QAM	6	0	20.94	21.13	20.86	0.1968	0.2056	0.1932
Channel				26055	26340	26675	EIRP(W)		
Frequency (MHz)				1851.5	1880	1913.5	L	M	H
3	QPSK	1	0	20.94	21.15	20.92	0.1968	0.2065	0.1959
3	QPSK	1	5	20.66	20.90	20.62	0.1845	0.1950	0.1828
3	QPSK	3	0	20.79	21.04	20.73	0.1901	0.2014	0.1875
3	QPSK	3	3	20.64	20.90	20.58	0.1837	0.1950	0.1811
3	QPSK	6	0	20.75	21.04	20.69	0.1884	0.2014	0.1858
3	16QAM	1	0	21.06	21.33	20.95	0.2023	0.2153	0.1972
3	16QAM	1	5	21.00	21.19	20.91	0.1995	0.2084	0.1954
3	16QAM	3	0	20.90	21.12	20.80	0.1950	0.2051	0.1905
3	16QAM	3	3	20.74	21.01	20.69	0.1879	0.2000	0.1858
3	16QAM	6	0	20.97	21.18	20.79	0.1982	0.2080	0.1901
Channel				26047	26340	26683	EIRP(W)		
Frequency (MHz)				1850.7	1880	1914.3	L	M	H
1.4	QPSK	1	0	21.02	21.10	20.89	0.2004	0.2042	0.1945
1.4	QPSK	1	5	20.67	20.91	20.60	0.1849	0.1954	0.1820
1.4	QPSK	3	0	20.76	20.98	20.77	0.1888	0.1986	0.1892
1.4	QPSK	3	3	20.69	20.92	20.57	0.1858	0.1959	0.1807
1.4	QPSK	6	0	20.71	21.04	20.66	0.1866	0.2014	0.1845
1.4	16QAM	1	0	21.00	21.27	20.95	0.1995	0.2123	0.1972
1.4	16QAM	1	5	21.06	21.23	20.95	0.2023	0.2104	0.1972
1.4	16QAM	3	0	20.88	21.14	20.80	0.1941	0.2061	0.1905
1.4	16QAM	3	3	20.74	21.00	20.68	0.1879	0.1995	0.1854
1.4	16QAM	6	0	20.89	21.13	20.77	0.1945	0.2056	0.1892

LTE Band 26:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)			
Channel				26790	26865	26915	26965				
Frequency (MHz)				824	831.5	836.5	841.5	Straddle Ch	L	M	H
15	QPSK	1	0	21.76	21.81	21.83	21.79	0.1125	0.1138	0.1143	0.1132
15	QPSK	1	5	21.53	21.63	21.63	21.61	0.1067	0.1091	0.1091	0.1086
15	QPSK	3	0	21.66	21.71	21.67	21.62	0.1099	0.1112	0.1102	0.1089
15	QPSK	3	3	21.66	21.70	21.73	21.68	0.1099	0.1109	0.1117	0.1104
15	QPSK	6	0	21.67	21.78	21.77	21.77	0.1102	0.1130	0.1127	0.1127
15	16QAM	1	0	21.88	21.92	22.37	21.91	0.1156	0.1167	0.1294	0.1164
15	16QAM	1	5	21.73	21.74	21.75	21.73	0.1117	0.1119	0.1122	0.1117
15	16QAM	3	0	21.70	21.76	21.75	21.73	0.1109	0.1125	0.1122	0.1117
15	16QAM	3	3	21.65	21.69	21.73	21.60	0.1096	0.1107	0.1117	0.1084



15	16QAM	6	0	21.84	21.91	21.87	21.80	0.1146	0.1164	0.1153	0.1135
Channel				26790	26840	26915	26990	ERP(W)			
Frequency (MHz)				824	829	836.5	844	Straddle Ch	L	M	H
10	QPSK	1	0	21.78	21.81	21.80	21.68	0.1130	0.1138	0.1135	0.1104
10	QPSK	1	5	21.54	21.66	21.64	21.50	0.1069	0.1099	0.1094	0.1059
10	QPSK	3	0	21.61	21.66	21.62	21.57	0.1086	0.1099	0.1089	0.1076
10	QPSK	3	3	21.56	21.66	21.74	21.58	0.1074	0.1099	0.1119	0.1079
10	QPSK	6	0	21.63	21.76	21.72	21.66	0.1091	0.1125	0.1114	0.1099
10	16QAM	1	0	21.87	21.88	21.85	21.83	0.1153	0.1156	0.1148	0.1143
10	16QAM	1	5	21.63	21.76	21.74	21.71	0.1091	0.1125	0.1119	0.1112
10	16QAM	3	0	21.68	21.75	21.79	21.71	0.1104	0.1122	0.1132	0.1112
10	16QAM	3	3	21.64	21.66	21.70	21.58	0.1094	0.1099	0.1109	0.1079
10	16QAM	6	0	21.82	21.91	21.91	21.70	0.1140	0.1164	0.1164	0.1109
Channel				26790	26815	26915	27015	ERP(W)			
Frequency (MHz)				824	826.5	836.5	846.5	Straddle Ch	L	M	H
5	QPSK	1	0	21.78	21.76	21.84	21.73	0.1130	0.1125	0.1146	0.1117
5	QPSK	1	5	21.57	21.58	21.59	21.55	0.1076	0.1079	0.1081	0.1072
5	QPSK	3	0	21.68	21.67	21.68	21.53	0.1104	0.1102	0.1104	0.1067
5	QPSK	3	3	21.55	21.65	21.77	21.61	0.1072	0.1096	0.1127	0.1086
5	QPSK	6	0	21.69	21.79	21.74	21.70	0.1107	0.1132	0.1119	0.1109
5	16QAM	1	0	21.79	21.89	21.90	21.80	0.1132	0.1159	0.1161	0.1135
5	16QAM	1	5	21.65	21.74	21.75	21.65	0.1096	0.1119	0.1122	0.1096
5	16QAM	3	0	21.72	21.74	21.74	21.71	0.1114	0.1119	0.1119	0.1112
5	16QAM	3	3	21.54	21.71	21.68	21.58	0.1069	0.1112	0.1104	0.1079
5	16QAM	6	0	21.82	21.87	21.89	21.74	0.1140	0.1153	0.1159	0.1119
Channel				26790	26815	26915	27025	ERP(W)			
Frequency (MHz)				824	825.5	836.5	847.5	Straddle Ch	L	M	H
3	QPSK	1	0	21.79	21.80	21.86	21.70	0.1132	0.1135	0.1151	0.1109
3	QPSK	1	5	21.57	21.60	21.66	21.60	0.1076	0.1084	0.1099	0.1084
3	QPSK	3	0	21.70	21.65	21.68	21.55	0.1109	0.1096	0.1104	0.1072
3	QPSK	3	3	21.66	21.64	21.70	21.57	0.1099	0.1094	0.1109	0.1076
3	QPSK	6	0	21.68	21.78	21.81	21.72	0.1104	0.1130	0.1138	0.1114
3	16QAM	1	0	21.77	21.87	21.85	21.85	0.1127	0.1153	0.1148	0.1148
3	16QAM	1	5	21.66	21.69	21.76	21.67	0.1099	0.1107	0.1125	0.1102
3	16QAM	3	0	21.61	21.80	21.74	21.68	0.1086	0.1135	0.1119	0.1104
3	16QAM	3	3	21.58	21.66	21.76	21.50	0.1079	0.1099	0.1125	0.1059
3	16QAM	6	0	21.80	21.90	21.83	21.78	0.1135	0.1161	0.1143	0.1130
Channel				26790	26797	26915	27033	ERP(W)			
Frequency (MHz)				824	824.7	836.5	848.3	Straddle Ch	L	M	H
1.4	QPSK	1	0	21.73	21.80	21.87	21.68	0.1117	0.1135	0.1153	0.1104
1.4	QPSK	1	5	21.60	21.61	21.59	21.53	0.1084	0.1086	0.1081	0.1067
1.4	QPSK	3	0	21.61	21.73	21.63	21.52	0.1086	0.1117	0.1091	0.1064
1.4	QPSK	3	3	21.63	21.69	21.77	21.59	0.1091	0.1107	0.1127	0.1081
1.4	QPSK	6	0	21.68	21.76	21.74	21.75	0.1104	0.1125	0.1119	0.1122
1.4	16QAM	1	0	21.81	21.86	21.92	21.80	0.1138	0.1151	0.1167	0.1135
1.4	16QAM	1	5	21.75	21.78	21.71	21.65	0.1122	0.1130	0.1112	0.1096



1.4	16QAM	3	0	21.70	21.70	21.76	21.69	0.1109	0.1109	0.1125	0.1107
1.4	16QAM	3	3	21.54	21.73	21.71	21.53	0.1069	0.1117	0.1112	0.1067
1.4	16QAM	6	0	21.85	21.89	21.86	21.70	0.1148	0.1159	0.1151	0.1109

LTE Band 66:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)			
Channel				132072	132322	132572				
Frequency (MHz)				1720	1745	1770	L	M	H	
20	QPSK	1	0	21.32	21.78	22.88	0.2410	0.2679	0.3451	
20	QPSK	1	5	21.16	21.54	22.71	0.2323	0.2535	0.3319	
20	QPSK	3	0	21.33	21.71	22.81	0.2415	0.2636	0.3396	
20	QPSK	3	3	21.23	21.59	22.68	0.2360	0.2564	0.3296	
20	QPSK	6	0	21.26	21.75	22.75	0.2377	0.2661	0.3350	
20	16QAM	1	0	21.55	21.87	22.89	0.2541	0.2735	0.3459	
20	16QAM	1	5	21.41	21.59	22.89	0.2460	0.2564	0.3459	
20	16QAM	3	0	21.32	21.57	22.77	0.2410	0.2553	0.3365	
20	16QAM	3	3	21.31	21.58	22.68	0.2404	0.2559	0.3296	
20	16QAM	6	0	21.38	21.67	22.71	0.2443	0.2612	0.3319	
Channel				132047	132322	132597	EIRP(W)			
Frequency (MHz)				1717.5	1745	1772.5	L	M	H	
15	QPSK	1	0	21.43	21.88	22.85	0.2472	0.2742	0.3428	
15	QPSK	1	5	21.15	21.57	22.80	0.2317	0.2553	0.3388	
15	QPSK	3	0	21.35	21.73	22.82	0.2427	0.2649	0.3404	
15	QPSK	3	3	21.24	21.68	22.68	0.2366	0.2618	0.3296	
15	QPSK	6	0	21.28	21.80	22.83	0.2388	0.2692	0.3412	
15	16QAM	1	0	21.64	21.89	22.96	0.2594	0.2748	0.3516	
15	16QAM	1	5	21.48	21.62	22.90	0.2500	0.2582	0.3467	
15	16QAM	3	0	21.37	21.58	22.78	0.2438	0.2559	0.3373	
15	16QAM	3	3	21.38	21.65	22.69	0.2443	0.2600	0.3304	
15	16QAM	6	0	21.44	21.68	22.73	0.2477	0.2618	0.3334	
Channel				132022	132322	132622	EIRP(W)			
Frequency (MHz)				1715	1745	1775	L	M	H	
10	QPSK	1	0	21.42	21.80	22.83	0.2466	0.2692	0.3412	
10	QPSK	1	5	21.10	21.46	22.70	0.2291	0.2489	0.3311	
10	QPSK	3	0	21.26	21.69	22.80	0.2377	0.2624	0.3388	
10	QPSK	3	3	21.23	21.60	22.67	0.2360	0.2570	0.3289	
10	QPSK	6	0	21.26	21.77	22.80	0.2377	0.2673	0.3388	
10	16QAM	1	0	21.61	21.82	22.85	0.2576	0.2704	0.3428	
10	16QAM	1	5	21.40	21.53	22.86	0.2455	0.2529	0.3436	
10	16QAM	3	0	21.29	21.50	22.70	0.2393	0.2512	0.3311	
10	16QAM	3	3	21.27	21.59	22.61	0.2382	0.2564	0.3243	
10	16QAM	6	0	21.43	21.58	22.63	0.2472	0.2559	0.3258	
Channel				131997	132322	132647	EIRP(W)			



Frequency (MHz)				1712.5	1745	1777.5	L	M	H
5	QPSK	1	0	21.48	21.96	22.84	0.2500	0.2793	0.3420
5	QPSK	1	5	21.16	21.59	22.87	0.2323	0.2564	0.3443
5	QPSK	3	0	21.40	21.74	22.84	0.2455	0.2655	0.3420
5	QPSK	3	3	21.25	21.75	22.69	0.2371	0.2661	0.3304
5	QPSK	6	0	21.37	21.81	22.82	0.2438	0.2698	0.3404
5	16QAM	1	0	21.63	21.91	22.95	0.2588	0.2761	0.3508
5	16QAM	1	5	21.54	21.67	22.99	0.2535	0.2612	0.3540
5	16QAM	3	0	21.41	21.58	22.77	0.2460	0.2559	0.3365
5	16QAM	3	3	21.39	21.69	22.69	0.2449	0.2624	0.3304
5	16QAM	6	0	21.51	21.69	22.73	0.2518	0.2624	0.3334
Channel				131987	132322	132657	EIRP(W)		
Frequency (MHz)				1711.5	1745	1778.5	L	M	H
3	QPSK	1	0	21.42	21.90	22.92	0.2466	0.2754	0.3483
3	QPSK	1	5	21.23	21.65	22.85	0.2360	0.2600	0.3428
3	QPSK	3	0	21.38	21.72	22.85	0.2443	0.2642	0.3428
3	QPSK	3	3	21.32	21.77	22.67	0.2410	0.2673	0.3289
3	QPSK	6	0	21.28	21.82	22.85	0.2388	0.2704	0.3428
3	16QAM	1	0	21.63	21.95	22.95	0.2588	0.2786	0.3508
3	16QAM	1	5	21.54	21.62	22.95	0.2535	0.2582	0.3508
3	16QAM	3	0	21.37	21.57	22.83	0.2438	0.2553	0.3412
3	16QAM	3	3	21.41	21.70	22.75	0.2460	0.2630	0.3350
3	16QAM	6	0	21.49	21.69	22.78	0.2506	0.2624	0.3373
Channel				131979	132322	132665	EIRP(W)		
Frequency (MHz)				1710.7	1745	1779.3	L	M	H
1.4	QPSK	1	0	21.45	21.96	22.92	0.2483	0.2793	0.3483
1.4	QPSK	1	5	21.24	21.64	22.88	0.2366	0.2594	0.3451
1.4	QPSK	3	0	21.36	21.76	22.85	0.2432	0.2667	0.3428
1.4	QPSK	3	3	21.25	21.73	22.74	0.2371	0.2649	0.3342
1.4	QPSK	6	0	21.30	21.84	22.85	0.2399	0.2716	0.3428
1.4	16QAM	1	0	21.71	21.91	22.96	0.2636	0.2761	0.3516
1.4	16QAM	1	5	21.54	21.70	22.94	0.2535	0.2630	0.3499
1.4	16QAM	3	0	21.46	21.60	22.81	0.2489	0.2570	0.3396
1.4	16QAM	3	3	21.41	21.69	22.76	0.2460	0.2624	0.3357
1.4	16QAM	6	0	21.52	21.75	22.73	0.2523	0.2661	0.3334



LTE Band 85:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				134052	134092	134132			
Frequency (MHz)				703	707	711	L	M	H
10	QPSK	1	0	21.51	21.72	21.80	0.1062	0.1114	0.1135
10	QPSK	1	5	21.09	21.40	21.44	0.0964	0.1035	0.1045
10	QPSK	3	0	21.33	21.54	21.58	0.1019	0.1069	0.1079
10	QPSK	3	3	21.15	21.40	21.49	0.0977	0.1035	0.1057
10	QPSK	6	0	20.52	20.83	20.84	0.0845	0.0908	0.0910
10	16QAM	1	0	21.71	21.93	22.02	0.1112	0.1169	0.1194
10	16QAM	1	5	21.44	21.71	21.80	0.1045	0.1112	0.1135
10	16QAM	3	0	21.34	21.60	21.70	0.1021	0.1084	0.1109
10	16QAM	3	3	21.25	21.51	21.52	0.1000	0.1062	0.1064
10	16QAM	6	0	20.77	21.05	21.15	0.0895	0.0955	0.0977
Channel				134027	134092	134207	ERP(W)		
Frequency (MHz)				700.5	707	718.5	L	M	H
5	QPSK	1	0	21.47	21.65	21.76	0.1052	0.1096	0.1125
5	QPSK	1	5	21.01	21.34	21.40	0.0946	0.1021	0.1035
5	QPSK	3	0	21.29	21.45	21.55	0.1009	0.1047	0.1072
5	QPSK	3	3	21.11	21.34	21.39	0.0968	0.1021	0.1033
5	QPSK	6	0	20.46	20.75	20.77	0.0834	0.0891	0.0895
5	16QAM	1	0	21.65	21.91	22.01	0.1096	0.1164	0.1191
5	16QAM	1	5	21.33	21.60	21.79	0.1019	0.1084	0.1132
5	16QAM	3	0	21.28	21.55	21.68	0.1007	0.1072	0.1104
5	16QAM	3	3	21.24	21.45	21.47	0.0998	0.1047	0.1052
5	16QAM	6	0	20.71	21.00	21.11	0.0883	0.0944	0.0968

**NB-IOT Cat NB2:****Band 2:**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				18600.019	18900	19199.981			
Frequency (MHz)				1850.0019	1880	1909.9981	L	M	H
0.00375	BPSK	1	0	22.24	22.54	22.49	0.2655	0.2844	0.2812
0.00375	BPSK	1	47	22.31	22.61	22.55	0.2698	0.2891	0.2851
0.00375	QPSK	1	0	22.29	22.59	22.51	0.2685	0.2877	0.2825
0.00375	QPSK	1	47	22.31	22.60	22.53	0.2698	0.2884	0.2838
0.015	BPSK	1	0	22.99	22.98	23.04	0.3155	0.3148	0.3192
0.015	BPSK	1	11	22.84	22.83	22.90	0.3048	0.3041	0.3090
0.015	QPSK	1	0	23.02	23.01	23.04	0.3177	0.3170	0.3192
0.015	QPSK	1	11	22.81	22.80	22.87	0.3027	0.3020	0.3069
0.015	QPSK	12	0	20.75	20.74	20.81	0.1884	0.1879	0.1910

Band 4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				19950.019	20175	20399.981			
Frequency (MHz)				1710.0019	1732.5	1754.9981	L	M	H
0.00375	BPSK	1	0	22.46	22.60	22.75	0.2547	0.2630	0.2723
0.00375	BPSK	1	47	22.26	22.40	22.55	0.2432	0.2512	0.2600
0.00375	QPSK	1	0	22.51	22.65	22.80	0.2576	0.2661	0.2754
0.00375	QPSK	1	47	22.40	22.54	22.69	0.2512	0.2594	0.2685
0.015	BPSK	1	0	23.22	23.29	23.49	0.3034	0.3083	0.3228
0.015	BPSK	1	11	23.15	23.22	23.42	0.2985	0.3034	0.3177
0.015	QPSK	1	0	23.13	23.20	23.40	0.2972	0.3020	0.3162
0.015	QPSK	1	11	23.21	23.28	23.48	0.3027	0.3076	0.3221
0.015	QPSK	12	0	20.56	20.63	20.98	0.1644	0.1671	0.1811

**Band 5:**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				20400.019	20525	20649.981			
Frequency (MHz)				824.00188	836.5	848.99813	L	M	H
0.00375	BPSK	1	0	22.66	22.75	22.71	0.1384	0.1413	0.1400
0.00375	BPSK	1	47	22.59	22.68	22.64	0.1361	0.1390	0.1377
0.00375	QPSK	1	0	22.69	22.78	22.74	0.1393	0.1422	0.1409
0.00375	QPSK	1	47	22.60	22.69	22.65	0.1365	0.1393	0.1380
0.015	BPSK	1	0	23.27	23.42	23.44	0.1592	0.1648	0.1656
0.015	BPSK	1	11	23.20	23.35	23.47	0.1567	0.1622	0.1667
0.015	QPSK	1	0	23.45	23.50	23.52	0.1660	0.1679	0.1687
0.015	QPSK	1	11	23.40	23.45	23.40	0.1641	0.1660	0.1641
0.015	QPSK	12	0	21.38	21.58	21.96	0.1030	0.1079	0.1178

Band 12:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23010.019	23095	23179.981			
Frequency (MHz)				699.00188	707.5	715.99813	L	M	H
0.00375	BPSK	1	0	21.94	22.17	22.21	0.1172	0.1236	0.1247
0.00375	BPSK	1	47	21.93	22.16	22.20	0.1169	0.1233	0.1245
0.00375	QPSK	1	0	21.89	22.12	22.16	0.1159	0.1222	0.1233
0.00375	QPSK	1	47	21.80	22.03	22.07	0.1135	0.1197	0.1208
0.015	BPSK	1	0	22.63	22.78	23.03	0.1374	0.1422	0.1507
0.015	BPSK	1	11	22.54	22.69	22.94	0.1346	0.1393	0.1476
0.015	QPSK	1	0	22.68	22.83	23.08	0.1390	0.1439	0.1524
0.015	QPSK	1	11	22.59	22.74	22.99	0.1361	0.1409	0.1493
0.015	QPSK	12	0	20.36	20.63	20.87	0.0815	0.0867	0.0916

**Band 13:**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23181	23230	23279			
Frequency (MHz)				777.1	782	786.9		M	
0.00375	BPSK	1	0	22.78	22.57	22.70	0.1390	0.1324	0.1365
0.00375	BPSK	1	47	22.69	22.49	22.62	0.1361	0.1300	0.1340
0.00375	QPSK	1	0	22.75	22.55	22.68	0.1380	0.1318	0.1358
0.00375	QPSK	1	47	22.68	22.48	22.61	0.1358	0.1297	0.1337
0.015	BPSK	1	0	23.35	23.38	23.34	0.1585	0.1596	0.1581
0.015	BPSK	1	11	23.25	23.28	23.24	0.1549	0.1560	0.1545
0.015	QPSK	1	0	23.21	23.24	23.20	0.1535	0.1545	0.1531
0.015	QPSK	1	11	23.32	23.35	23.31	0.1574	0.1585	0.1570
0.015	QPSK	12	0	21.05	21.02	21.01	0.0933	0.0927	0.0925

Band 25:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				26040.019	26340	26689.981			
Frequency (MHz)				1850.0019	1880	1914.9981	L	M	H
0.00375	BPSK	1	0	21.59	22.29	22.35	0.2286	0.2685	0.2723
0.00375	BPSK	1	47	21.54	22.24	22.31	0.2259	0.2655	0.2698
0.00375	QPSK	1	0	21.59	22.29	22.36	0.2286	0.2685	0.2729
0.00375	QPSK	1	47	21.63	22.33	22.40	0.2307	0.2710	0.2754
0.015	BPSK	1	0	22.97	22.87	22.85	0.3141	0.3069	0.3055
0.015	BPSK	1	11	22.96	22.86	22.84	0.3133	0.3062	0.3048
0.015	QPSK	1	0	23.05	22.95	22.95	0.3199	0.3126	0.3126
0.015	QPSK	1	11	22.90	22.80	22.78	0.3090	0.3020	0.3006
0.015	QPSK	12	0	20.56	20.46	20.44	0.1803	0.1762	0.1754

**Band 66:**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				131972.02	132322	132671.98			
Frequency (MHz)				1710.0019	1745	1779.9981	L	M	H
0.00375	BPSK	1	0	22.35	22.87	23.65	0.3055	0.3443	0.4121
0.00375	BPSK	1	47	22.50	22.81	23.53	0.3162	0.3396	0.4009
0.00375	QPSK	1	0	22.63	22.90	23.63	0.3258	0.3467	0.4102
0.00375	QPSK	1	47	22.57	22.88	23.55	0.3214	0.3451	0.4027
0.015	BPSK	1	0	23.16	23.28	23.61	0.3681	0.3784	0.4083
0.015	BPSK	1	11	23.22	23.39	23.55	0.3733	0.3882	0.4027
0.015	QPSK	1	0	23.35	23.35	23.57	0.3846	0.3846	0.4046
0.015	QPSK	1	11	23.30	23.22	23.60	0.3802	0.3733	0.4074
0.015	QPSK	12	0	21.13	21.15	21.43	0.2307	0.2317	0.2472

Band 71:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				133122.02	133322	133471.98			
Frequency (MHz)				663.00188	683	697.99813	L	M	H
0.00375	BPSK	1	0	21.67	22.57	22.37	0.1102	0.1355	0.1294
0.00375	BPSK	1	47	21.51	22.41	22.21	0.1062	0.1306	0.1247
0.00375	QPSK	1	0	21.60	22.54	22.34	0.1084	0.1346	0.1285
0.00375	QPSK	1	47	21.48	22.38	22.18	0.1054	0.1297	0.1239
0.015	BPSK	1	0	23.22	23.11	22.77	0.1574	0.1535	0.1419
0.015	BPSK	1	11	23.02	22.92	22.62	0.1503	0.1469	0.1371
0.015	QPSK	1	0	23.19	23.09	22.79	0.1563	0.1528	0.1426
0.015	QPSK	1	11	23.17	23.07	22.77	0.1556	0.1521	0.1419
0.015	QPSK	12	0	21.02	20.89	20.70	0.0948	0.0920	0.0881

**Band 85:**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				134002.02	134092	134181.98			
Frequency (MHz)				698.00188	707	715.99813	L	M	H
0.00375	BPSK	1	0	21.80	21.97	22.53	0.1135	0.1180	0.1343
0.00375	BPSK	1	47	21.75	21.92	22.48	0.1122	0.1167	0.1327
0.00375	QPSK	1	0	21.82	21.99	22.55	0.1140	0.1186	0.1349
0.00375	QPSK	1	47	21.70	21.87	22.43	0.1109	0.1153	0.1312
0.015	BPSK	1	0	22.50	22.75	22.96	0.1334	0.1413	0.1483
0.015	BPSK	1	11	22.44	22.69	22.90	0.1315	0.1393	0.1462
0.015	QPSK	1	0	22.52	22.77	22.98	0.1340	0.1419	0.1489
0.015	QPSK	1	11	22.46	22.71	22.92	0.1321	0.1400	0.1469
0.015	QPSK	12	0	20.38	20.55	20.83	0.0818	0.0851	0.0908



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	LiangPingZhou	Temperature :	22~25°C
		Relative Humidity :	48~52%

LTE Cat M1:

LTE Band 25 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702	-41.05	-13	-28.05	-59.51	-47.81	5.82	12.58	H
	5553	-59.65	-13	-46.65	-81.93	-65.37	7.28	13.00	H
	7404	-54.39	-13	-41.39	-81.45	-57.55	8.32	11.48	H
	3702	-37.85	-13	-24.85	-56.21	-44.61	5.82	12.58	V
	5553	-59.25	-13	-46.25	-81.71	-64.97	7.28	13.00	V
	7404	-53.87	-13	-40.87	-80.95	-57.03	8.32	11.48	V
Middle	3747	-51.30	-13	-38.30	-69.92	-58.05	5.85	12.60	H
	5620.5	-58.84	-13	-45.84	-81.67	-64.64	7.30	13.10	H
	7494	-54.78	-13	-41.78	-81.68	-57.93	8.35	11.50	H
	3747	-47.64	-13	-34.64	-66.19	-54.39	5.85	12.60	V
	5620.5	-59.74	-13	-46.74	-82.29	-65.54	7.30	13.10	V
	7494	-54.97	-13	-41.97	-81.86	-58.12	8.35	11.50	V
Highest	3792	-48.55	-13	-35.55	-67.28	-55.29	5.88	12.62	H
	5688	-58.70	-13	-45.70	-82.03	-64.51	7.32	13.13	H
	7584	-54.78	-13	-41.78	-81.43	-57.94	8.38	11.54	H
	3792	-46.55	-13	-33.55	-65.25	-53.29	5.88	12.62	V
	5688	-59.13	-13	-46.13	-82.06	-64.94	7.32	13.13	V
	7584	-54.99	-13	-41.99	-81.6	-58.15	8.38	11.54	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 26 / 15MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1629.5	-31.42	-13	-18.42	-41.30	-34.65	3.98	9.36	H
	2444.25	-29.04	-13	-16.04	-43.58	-32.59	4.85	10.55	H
	3259	-46.45	-13	-33.45	-63.29	-51.38	5.50	12.58	H
	1629.5	-39.38	-13	-26.38	-49.16	-42.61	3.98	9.36	V
	2444.25	-29.20	-13	-16.20	-43.72	-32.75	4.85	10.55	V
	3259	-54.29	-13	-41.29	-70.99	-59.22	5.50	12.58	V
Middle	1649.5	-41.23	-13	-28.23	-51.15	-44.48	4.00	9.40	H
	2474.25	-34.66	-13	-21.66	-49.13	-38.23	4.88	10.60	H
	3299	-47.15	-13	-34.15	-63.65	-52.08	5.52	12.60	H
	1649.5	-44.04	-13	-31.04	-53.70	-47.29	4.00	9.40	V
	2474.25	-35.08	-13	-22.08	-49.52	-38.65	4.88	10.60	V
	3299	-53.51	-13	-40.51	-69.82	-58.44	5.52	12.60	V
Highest	1669.5	-45.08	-13	-32.08	-55.03	-48.25	4.10	9.42	H
	2504.25	-34.50	-13	-21.50	-48.95	-38.08	4.90	10.63	H
	3339	-53.62	-13	-40.62	-69.61	-58.54	5.55	12.62	H
	1669.5	-50.98	-13	-37.98	-60.53	-54.15	4.10	9.42	V
	2504.25	-44.91	-13	-31.91	-59.32	-48.49	4.90	10.63	V
	3339	-59.50	-13	-46.50	-75.22	-64.42	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 13 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1554.5	-56.81	-13	-43.81	-66.82	-60.04	3.98	9.36	H
	2331.75	-56.78	-13	-43.78	-71.58	-60.33	4.85	10.55	H
	3109	-61.21	-13	-48.21	-78.24	-66.14	5.50	12.58	H
	1554.5	-59.74	-13	-46.74	-69.83	-62.97	3.98	9.36	V
	2331.75	-60.01	-13	-47.01	-74.81	-63.56	4.85	10.55	V
	3109	-61.14	-13	-48.14	-78.23	-66.07	5.50	12.58	V
Middle	1559.5	-54.83	-42.15	-12.68	-64.85	-58.08	4.00	9.40	H
	2339.25	-57.94	-13	-44.94	-72.69	-61.51	4.88	10.60	H
	3119	-60.94	-13	-47.94	-78.07	-65.87	5.52	12.60	H
	1559.5	-57.91	-42.15	-15.76	-68.01	-61.16	4.00	9.40	V
	2339.25	-63.16	-13	-50.16	-77.91	-66.73	4.88	10.60	V
	3119	-60.83	-13	-47.83	-78.00	-65.76	5.52	12.60	V
Highest	1564.5	-55.13	-42.15	-12.98	-65.15	-58.30	4.10	9.42	H
	2346.75	-58.10	-13	-45.10	-72.87	-61.68	4.90	10.63	H
	3129	-61.18	-13	-48.18	-78.31	-66.10	5.55	12.62	H
	1564.5	-59.66	-42.15	-17.51	-69.76	-62.83	4.10	9.42	V
	2346.75	-58.36	-13	-45.36	-73.13	-61.94	4.90	10.63	V
	3129	-61.29	-13	-48.29	-78.46	-66.21	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 13 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1559.5	-56.48	-42.15	-14.33	-66.50	-59.73	4.00	9.40	H
	2332.5	-57.53	-13	-44.53	-72.34	-61.10	4.88	10.60	H
	3110	-60.90	-13	-47.90	-77.93	-65.83	5.52	12.60	H
	1559.5	-59.77	-42.15	-17.62	-69.87	-63.02	4.00	9.40	V
	2332.5	-61.63	-13	-48.63	-76.44	-65.20	4.88	10.60	V
	3110	-61.14	-13	-48.14	-78.23	-66.07	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 12 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1400	-35.24	-13	-22.24	-45.96	-38.47	3.98	9.36	H
	2096	-23.27	-13	-10.27	-35.98	-26.82	4.85	10.55	H
	2800	-28.55	-13	-15.55	-44.53	-33.48	5.50	12.58	H
	3496	-41.05	-13	-28.05	-58.23	-45.52	5.98	12.60	H
	1400	-37.93	-13	-24.93	-48.21	-41.16	3.98	9.36	V
	2096	-23.62	-13	-10.62	-36.27	-27.17	4.85	10.55	V
	2800	-35.59	-13	-22.59	-51.76	-40.52	5.50	12.58	V
	3496	-46.39	-13	-33.39	-63.54	-50.86	5.98	12.60	V
Middle	1408	-36.37	-13	-23.37	-47.11	-39.62	4.00	9.40	H
	2112	-18.52	-13	-5.52	-31.57	-22.09	4.88	10.60	H
	2816	-31.11	-13	-18.11	-47.13	-36.04	5.52	12.60	H
	3512	-41.52	-13	-28.52	-58.86	-45.99	6.00	12.62	H
	1408	-32.31	-13	-19.31	-42.61	-35.56	4.00	9.40	V
	2112	-27.14	-13	-14.14	-40.14	-30.71	4.88	10.60	V
	2816	-35.22	-13	-22.22	-51.43	-40.15	5.52	12.60	V
	3512	-48.28	-13	-35.28	-65.56	-52.75	6.00	12.62	V
Highest	1416	-34.40	-13	-21.40	-45.16	-37.57	4.10	9.42	H
	2120	-23.68	-13	-10.68	-37.05	-27.26	4.90	10.63	H
	2824	-30.81	-13	-17.81	-46.84	-35.73	5.55	12.62	H
	3536	-42.26	-13	-29.26	-59.77	-46.74	6.02	12.65	H
	1416	-37.50	-13	-24.50	-47.82	-40.67	4.10	9.42	V
	2120	-27.19	-13	-14.19	-40.52	-30.77	4.90	10.63	V
	2824	-34.70	-13	-21.70	-50.92	-39.62	5.55	12.62	V
	3536	-48.96	-13	-35.96	-66.38	-53.44	6.02	12.65	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 66 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3422	-34.57	-13	-21.57	-51.06	-41.45	5.60	12.48	H
	5133	-59.59	-13	-46.59	-81.47	-65.27	7.10	12.78	H
	6844	-57.11	-13	-44.11	-82.32	-60.50	8.38	11.77	H
	3422	-36.93	-13	-23.93	-53.51	-43.81	5.60	12.48	V
	5133	-59.76	-13	-46.76	-81.86	-65.44	7.10	12.78	V
	6844	-56.51	-13	-43.51	-82.22	-59.90	8.38	11.77	V
Middle	3472	-36.34	-13	-23.34	-53.24	-43.19	5.65	12.50	H
	5208	-60.31	-13	-47.31	-82.04	-65.98	7.13	12.80	H
	6944	-56.00	-13	-43.00	-81.92	-59.40	8.40	11.80	H
	3472	-36.65	-13	-23.65	-53.57	-43.50	5.65	12.50	V
	5208	-59.32	-13	-46.32	-81.3	-64.99	7.13	12.80	V
	6944	-55.94	-13	-42.94	-82.33	-59.34	8.40	11.80	V
Highest	3522	-25.51	-13	-12.51	-42.86	-32.35	5.68	12.52	H
	5283	-58.99	-13	-45.99	-80.68	-64.66	7.15	12.82	H
	7044	-55.75	-13	-42.75	-82.15	-59.18	8.42	11.85	H
	3522	-38.24	-13	-25.24	-55.53	-45.08	5.68	12.52	V
	5283	-59.38	-13	-46.38	-81.2	-65.05	7.15	12.82	V
	7044	-54.56	-13	-41.56	-81.39	-57.99	8.42	11.85	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 85 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1397	-45.35	-13	-32.35	-55.93	-48.58	3.98	9.36	H
	2095.5	-38.69	-13	-25.69	-51.40	-42.24	4.85	10.55	H
	2794	-46.26	-13	-33.26	-62.24	-51.19	5.50	12.58	H
	1397	-46.82	-13	-33.82	-56.97	-50.05	3.98	9.36	V
	2096	-40.87	-13	-27.87	-53.52	-44.42	4.85	10.55	V
	2794	-37.99	-13	-24.99	-54.16	-42.92	5.50	12.58	V
Middle	1405	-45.64	-13	-32.64	-56.37	-48.89	4.00	9.40	H
	2107.5	-37.61	-13	-24.61	-50.65	-41.18	4.88	10.60	H
	2810	-41.84	-13	-28.84	-57.83	-46.77	5.52	12.60	H
	1405	-46.39	-13	-33.39	-56.68	-49.64	4.00	9.40	V
	2107.5	-42.40	-13	-29.40	-55.39	-45.97	4.88	10.60	V
	2810	-37.64	-13	-24.64	-53.82	-42.57	5.52	12.60	V
Highest	1413	-43.10	-13	-30.10	-53.85	-46.27	4.10	9.42	H
	2119.5	-39.02	-13	-26.02	-52.39	-42.60	4.90	10.63	H
	2826	-43.11	-13	-30.11	-59.14	-48.03	5.55	12.62	H
	1413	-44.63	-13	-31.63	-54.94	-47.80	4.10	9.42	V
	2119.5	-40.80	-13	-27.80	-54.13	-44.38	4.90	10.63	V
	2826	-38.99	-13	-25.99	-55.21	-43.91	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



NB-IOT Cat NB2:

Band 5 / 3.75kHz / BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1658	-38.47	-13	-25.47	-48.41	-41.70	3.98	9.36	H
	2487	-33.15	-13	-20.15	-47.64	-36.70	4.85	10.55	H
	3316	-58.48	-13	-45.48	-74.81	-63.41	5.50	12.58	H
	1658	-41.81	-13	-28.81	-51.35	-45.04	3.98	9.36	V
	2487	-40.45	-13	-27.45	-54.91	-44.00	4.85	10.55	V
	3316	-60.12	-13	-47.12	-76.23	-65.05	5.50	12.58	V
Middle	1673	-43.52	-13	-30.52	-53.48	-46.77	4.00	9.40	H
	2509.5	-36.73	-13	-23.73	-51.13	-40.30	4.88	10.60	H
	3346	-59.32	-13	-46.32	-75.31	-64.25	5.52	12.60	H
	1673	-47.01	-13	-34.01	-56.42	-50.26	4.00	9.40	V
	2509.5	-45.99	-13	-32.99	-60.35	-49.56	4.88	10.60	V
	3346	-61.46	-13	-48.46	-77.18	-66.39	5.52	12.60	V
Highest	1688	-47.15	-13	-34.15	-57.12	-50.32	4.10	9.42	H
	2532	-40.26	-13	-27.26	-54.73	-43.84	4.90	10.63	H
	3376	-60.55	-13	-47.55	-76.78	-65.47	5.55	12.62	H
	1688	-50.76	-13	-37.76	-60.18	-53.93	4.10	9.42	V
	2532	-49.61	-13	-36.61	-64.03	-53.19	4.90	10.63	V
	3376	-61.36	-13	-48.36	-77.58	-66.28	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Band 5 / 15kHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1658	-39.11	-13	-26.11	-49.05	-42.34	3.98	9.36	H
	2487	-33.95	-13	-20.95	-48.44	-37.50	4.85	10.55	H
	3316	-58.67	-13	-45.67	-75.00	-63.60	5.50	12.58	H
	1658	-41.82	-13	-28.82	-51.36	-45.05	3.98	9.36	V
	2487	-41.09	-13	-28.09	-55.55	-44.64	4.85	10.55	V
	3316	-60.87	-13	-47.87	-76.98	-65.80	5.50	12.58	V
Middle	1673	-43.90	-13	-30.90	-53.86	-47.15	4.00	9.40	H
	2509.5	-36.11	-13	-23.11	-50.51	-39.68	4.88	10.60	H
	3346	-58.70	-13	-45.70	-74.69	-63.63	5.52	12.60	H
	1673	-46.44	-13	-33.44	-55.85	-49.69	4.00	9.40	V
	2509.5	-45.70	-13	-32.70	-60.06	-49.27	4.88	10.60	V
	3346	-60.22	-13	-47.22	-75.94	-65.15	5.52	12.60	V
Highest	1688	-50.52	-13	-37.52	-60.49	-53.69	4.10	9.42	H
	2532	-40.69	-13	-27.69	-55.16	-44.27	4.90	10.63	H
	3376	-60.26	-13	-47.26	-76.49	-65.18	5.55	12.62	H
	1688	-49.95	-13	-36.95	-59.37	-53.12	4.10	9.42	V
	2532	-49.37	-13	-36.37	-63.79	-52.95	4.90	10.63	V
	3376	-60.65	-13	-47.65	-76.87	-65.57	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Band 25 / 3.75kHz / BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702	-35.80	-13	-22.80	-54.26	-42.56	5.82	12.58	H
	5553	-59.45	-13	-46.45	-81.73	-65.17	7.28	13.00	H
	7404	-54.91	-13	-41.91	-81.97	-58.07	8.32	11.48	H
	3702	-40.17	-13	-27.17	-58.53	-46.93	5.82	12.58	V
	5553	-59.36	-13	-46.36	-81.82	-65.08	7.28	13.00	V
	7404	-54.89	-13	-41.89	-81.97	-58.05	8.32	11.48	V
Middle	3765	-40.51	-13	-27.51	-59.17	-47.26	5.85	12.60	H
	5647.5	-58.48	-13	-45.48	-81.73	-64.28	7.30	13.10	H
	7530	-54.93	-13	-41.93	-81.73	-58.08	8.35	11.50	H
	3765	-43.54	-13	-30.54	-62.15	-50.29	5.85	12.60	V
	5647.5	-59.23	-13	-46.23	-81.73	-65.03	7.30	13.10	V
	7530	-55.09	-13	-42.09	-81.87	-58.24	8.35	11.50	V
Highest	3828	-39.83	-13	-26.83	-58.69	-46.57	5.88	12.62	H
	5742	-59.04	-13	-46.04	-82.43	-64.85	7.32	13.13	H
	7656	-54.80	-13	-41.80	-81.49	-57.96	8.38	11.54	H
	3828	-43.86	-13	-30.86	-62.71	-50.60	5.88	12.62	V
	5742	-58.22	-13	-45.22	-81.55	-64.03	7.32	13.13	V
	7656	-54.74	-13	-41.74	-81.34	-57.90	8.38	11.54	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Band 13 / 3.75kHz / BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1559	-55.12	-42.15	-12.97	-65.14	-58.35	3.98	9.36	H
	2338.5	-55.90	-13	-42.90	-70.65	-59.45	4.85	10.55	H
	3118	-61.39	-13	-48.39	-78.52	-66.32	5.50	12.58	H
	1559	-57.10	-42.15	-14.95	-67.20	-60.33	3.98	9.36	V
	2338.5	-57.03	-13	-44.03	-71.78	-60.58	4.85	10.55	V
	3118	-61.36	-13	-48.36	-78.53	-66.29	5.50	12.58	V
Middle	1564	-53.78	-42.15	-11.63	-63.80	-57.03	4.00	9.40	H
	2346	-56.23	-13	-43.23	-70.99	-59.80	4.88	10.60	H
	3128	-61.19	-13	-48.19	-78.32	-66.12	5.52	12.60	H
	1564	-56.32	-42.15	-14.17	-66.42	-59.57	4.00	9.40	V
	2346	-57.78	-13	-44.78	-72.54	-61.35	4.88	10.60	V
	3128	-61.01	-13	-48.01	-78.18	-65.94	5.52	12.60	V
Highest	1569	-54.37	-42.15	-12.22	-64.40	-57.54	4.10	9.42	H
	2353.5	-56.69	-13	-43.69	-71.40	-60.27	4.90	10.63	H
	3138	-61.18	-13	-48.18	-78.41	-66.10	5.55	12.62	H
	1569	-57.20	-42.15	-15.05	-67.31	-60.37	4.10	9.42	V
	2353.5	-57.55	-13	-44.55	-72.25	-61.13	4.90	10.63	V
	3138	-61.21	-13	-48.21	-78.46	-66.13	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Band 13 / 15kHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1560	-55.63	-42.15	-13.48	-65.65	-58.86	3.98	9.36	H
	2340	-57.49	-13	-44.49	-72.25	-61.04	4.85	10.55	H
	3120	-60.57	-13	-47.57	-77.70	-65.50	5.50	12.58	H
	1560	-56.42	-42.15	-14.27	-66.52	-59.65	3.98	9.36	V
	2340	-59.12	-13	-46.12	-73.88	-62.67	4.85	10.55	V
	3120	-61.08	-13	-48.08	-78.25	-66.01	5.50	12.58	V
Middle	1564	-53.34	-42.15	-11.19	-63.36	-56.59	4.00	9.40	H
	2346	-56.49	-13	-43.49	-71.25	-60.06	4.88	10.60	H
	3128	-60.95	-13	-47.95	-78.08	-65.88	5.52	12.60	H
	1564	-58.43	-42.15	-16.28	-68.53	-61.68	4.00	9.40	V
	2346	-56.93	-13	-43.93	-71.69	-60.50	4.88	10.60	V
	3128	-61.03	-13	-48.03	-78.20	-65.96	5.52	12.60	V
Highest	1568	-54.84	-42.15	-12.69	-64.86	-58.01	4.10	9.42	H
	2352	-56.49	-13	-43.49	-71.20	-60.07	4.90	10.63	H
	3136	-60.88	-13	-47.88	-78.11	-65.80	5.55	12.62	H
	1568	-57.03	-42.15	-14.88	-67.13	-60.20	4.10	9.42	V
	2352	-61.49	-13	-48.49	-76.19	-65.07	4.90	10.63	V
	3136	-61.02	-13	-48.02	-78.27	-65.94	5.55	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Band 12 / 3.75kHz / BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1408	-41.96	-13	-28.96	-52.70	-45.19	3.98	9.36	H
	2112	-27.73	-13	-14.73	-40.78	-31.28	4.85	10.55	H
	2816	-34.35	-13	-21.35	-50.37	-39.28	5.50	12.58	H
	3520	-47.81	-13	-34.81	-65.16	-52.28	5.98	12.60	H
	1408	-41.96	-13	-28.96	-52.26	-45.19	3.98	9.36	V
	2112	-29.23	-13	-16.23	-42.23	-32.78	4.85	10.55	V
	2816	-36.60	-13	-23.60	-52.81	-41.53	5.50	12.58	V
	3520	-53.44	-13	-40.44	-70.73	-57.91	5.98	12.60	V
Middle	1415	-44.20	-13	-31.20	-54.95	-47.45	4.00	9.40	H
	2122.5	-32.61	-13	-19.61	-45.98	-36.18	4.88	10.60	H
	2830	-35.61	-13	-22.61	-51.66	-40.54	5.52	12.60	H
	3537.5	-49.97	-13	-36.97	-67.48	-54.44	6.00	12.62	H
	1415	-43.80	-13	-30.80	-54.11	-47.05	4.00	9.40	V
	2122.5	-34.78	-13	-21.78	-48.11	-38.35	4.88	10.60	V
	2830	-39.66	-13	-26.66	-55.90	-44.59	5.52	12.60	V
	3537.5	-54.08	-13	-41.08	-71.50	-58.55	6.00	12.62	V
Highest	1422	-42.38	-13	-29.38	-53.04	-45.55	4.10	9.42	H
	2133	-31.16	-13	-18.16	-44.86	-34.74	4.90	10.63	H
	2844	-37.93	-13	-24.93	-54.00	-42.85	5.55	12.62	H
	3555	-50.61	-13	-37.61	-68.28	-55.09	6.02	12.65	H
	1422	-42.94	-13	-29.94	-53.22	-46.11	4.10	9.42	V
	2133	-36.64	-13	-23.64	-50.31	-40.22	4.90	10.63	V
	2844	-42.90	-13	-29.90	-59.16	-47.82	5.55	12.62	V
	3555	-56.83	-13	-43.83	-74.39	-61.31	6.02	12.65	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Band 66 / 3.75kHz / BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3426	-31.19	-13	-18.19	-47.82	-38.07	5.60	12.48	H
	5139	-59.45	-13	-46.45	-81.33	-65.13	7.10	12.78	H
	6852	-57.24	-13	-44.24	-82.44	-60.63	8.38	11.77	H
	3426	-36.15	-13	-23.15	-52.84	-43.03	5.60	12.48	V
	5139	-58.81	-13	-45.81	-80.91	-64.49	7.10	12.78	V
	6852	-56.56	-13	-43.56	-82.26	-59.95	8.38	11.77	V
Middle	3489	-32.90	-13	-19.90	-49.94	-39.75	5.65	12.50	H
	5233.5	-60.22	-13	-47.22	-81.93	-65.89	7.13	12.80	H
	6978	-56.07	-13	-43.07	-82.22	-59.47	8.40	11.80	H
	3489	-39.65	-13	-26.65	-56.68	-46.50	5.65	12.50	V
	5233.5	-60.06	-13	-47.06	-81.94	-65.73	7.13	12.80	V
	6978	-55.59	-13	-42.59	-82.2	-58.99	8.40	11.80	V
Highest	3558	-31.97	-13	-18.97	-49.64	-38.81	5.68	12.52	H
	5337	-59.24	-13	-46.24	-80.96	-64.91	7.15	12.82	H
	7116	-55.61	-13	-42.61	-82.19	-59.04	8.42	11.85	H
	3558	-39.91	-13	-26.91	-57.47	-46.75	5.68	12.52	V
	5337	-58.67	-13	-45.67	-80.54	-64.34	7.15	12.82	V
	7116	-54.92	-13	-41.92	-81.9	-58.35	8.42	11.85	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Band 71 / 15kHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1346	-29.21	-13	-16.21	-39.28	-32.44	3.98	9.36	H
	2019	-19.80	-13	-6.80	-31.17	-23.35	4.85	10.55	H
	2692	-32.74	-13	-19.74	-48.08	-37.67	5.50	12.58	H
	3365	-39.29	-13	-26.29	-55.40	-43.76	5.98	12.60	H
	4038	-51.65	-13	-38.65	-71.39	-55.08	7.10	12.68	H
	1346	-28.43	-13	-15.43	-38.13	-31.66	3.98	9.36	V
	2019	-21.46	-13	-8.46	-32.72	-25.01	4.85	10.55	V
	2692	-40.42	-13	-27.42	-55.80	-45.35	5.50	12.58	V
	3365	-42.09	-13	-29.09	-58.06	-46.56	5.98	12.60	V
	4038	-56.95	-13	-43.95	-76.71	-60.38	7.10	12.68	V
Middle	1366	-34.40	-13	-21.40	-44.79	-37.65	4.00	9.40	H
	2049	-15.44	-13	-2.44	-27.47	-19.01	4.88	10.60	H
	2732	-30.62	-13	-17.62	-46.19	-35.55	5.52	12.60	H
	3415	-46.71	-13	-33.71	-63.20	-51.18	6.00	12.62	H
	4096	-55.79	-13	-42.79	-75.62	-59.20	7.14	12.70	H
	1366	-32.65	-13	-19.65	-42.63	-35.90	4.00	9.40	V
	2049	-22.51	-13	-9.51	-34.45	-26.08	4.88	10.60	V
	2732	-35.08	-13	-22.08	-50.74	-40.01	5.52	12.60	V
	3415	-52.32	-13	-39.32	-68.90	-56.79	6.00	12.62	V
	4096	-58.50	-13	-45.50	-78.35	-61.91	7.14	12.70	V
Highest	1376	-31.98	-13	-18.98	-42.39	-35.15	4.10	9.42	H
	2064	-16.38	-13	-3.38	-28.74	-19.96	4.90	10.63	H
	2752	-30.95	-13	-17.95	-46.62	-35.87	5.55	12.62	H
	3440	-49.96	-13	-36.96	-66.73	-54.44	6.02	12.65	H
	4128	-57.16	-13	-44.16	-77.06	-60.58	7.15	12.72	H
	1376	-32.38	-13	-19.38	-42.38	-35.55	4.10	9.42	V
	2064	-22.56	-13	-9.56	-34.85	-26.14	4.90	10.63	V
	2752	-39.25	-13	-26.25	-55.03	-44.17	5.55	12.62	V
	3440	-52.55	-13	-39.55	-69.36	-57.03	6.02	12.65	V
	4128	-60.40	-13	-47.40	-80.31	-63.82	7.15	12.72	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Band 85 / 3.75kHz / BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1406	-41.63	-13	-28.63	-52.36	-44.86	3.98	9.36	H
	2109	-26.73	-13	-13.73	-39.77	-30.28	4.85	10.55	H
	2812	-33.15	-13	-20.15	-49.17	-38.08	5.50	12.58	H
	3515	-46.77	-13	-33.77	-64.11	-51.24	5.98	12.60	H
	1406	-40.97	-13	-27.97	-51.26	-44.20	3.98	9.36	V
	2109	-30.31	-13	-17.31	-43.30	-33.86	4.85	10.55	V
	2812	-36.67	-13	-23.67	-52.88	-41.60	5.50	12.58	V
	3515	-51.62	-13	-38.62	-68.90	-56.09	5.98	12.60	V
Middle	1414	-42.82	-13	-29.82	-53.57	-46.07	4.00	9.40	H
	2121	-30.72	-13	-17.72	-44.09	-34.29	4.88	10.60	H
	2828	-35.94	-13	-22.94	-51.99	-40.87	5.52	12.60	H
	3535	-48.29	-13	-35.29	-65.80	-52.76	6.00	12.62	H
	1414	-42.78	-13	-29.78	-53.09	-46.03	4.00	9.40	V
	2121	-30.71	-13	-17.71	-44.04	-34.28	4.88	10.60	V
	2828	-38.40	-13	-25.40	-54.64	-43.33	5.52	12.60	V
	3535	-51.80	-13	-38.80	-69.22	-56.27	6.00	12.62	V
Highest	1422	-43.07	-13	-30.07	-53.73	-46.24	4.10	9.42	H
	2133	-31.37	-13	-18.37	-45.07	-34.95	4.90	10.63	H
	2844	-38.18	-13	-25.18	-54.25	-43.10	5.55	12.62	H
	3555	-51.37	-13	-38.37	-69.04	-55.85	6.02	12.65	H
	1422	-44.13	-13	-31.13	-54.41	-47.30	4.10	9.42	V
	2133	-34.87	-13	-21.87	-48.54	-38.45	4.90	10.63	V
	2844	-40.63	-13	-27.63	-56.89	-45.55	5.55	12.62	V
	3555	-55.95	-13	-42.95	-73.51	-60.43	6.02	12.65	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.