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TEST REPORT

of

FCC Part 2 Subpart J, Part 22 Subpart C/H,
Part 24 Subpart E and Part 27 Subpart C
IC RSS-130 Issue 2, RSS-132 Issue 3, RSS-133 Issue 6,
RSS-139 Issue 3, RSS-199 Issue 3 and RSS-Gen Issue 5

FCC ID: BEJTM04ANNABM2
IC Certification: 2703H-TM04ANNABM2

Equipment Under Test	:	Telematics Module
Model Name	:	TM04ANNABM2
Variant Model Name(s)	:	-
Applicant	:	FCC: LG Electronics USA IC: LG ELECTRONICS INC.
Manufacturer	:	LG Electronics Inc.
Date of Receipt	:	2022.04.26
Date of Test(s)	:	2020.01.13 ~ 2022.07.04
Date of Issue	:	2022.07.20

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

1) The results of this test report are effective only to the items tested.
2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
3) This test report cannot be reproduced, except in full, without prior written permission of the Company.
4) The data marked ※ in this report was provided by the customer and may affect the validity of the test results.
We are responsible for all the information of this test report except for the data(※) provided by the customer.

Tested by: Murphy Kim

Technical Manager: Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory

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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)
- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

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1.2. Details of Applicant

FCC Applicant : LG Electronics USA
FCC Address : 111 Sylvan Avenue, North Building, Englewood Cliffs, New Jersey, United States, 07632
IC Applicant : LG ELECTRONICS INC.
IC Address : 222, LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyenggi-do, Korea (Republic of), 451-713
Contact Person : Kim, Sung-soo
Phone No. : +1 201 266 2215

1.3. Details of Manufacturer

Company : LG Electronics Inc.
Address : 10, Magokjungang 10-ro, Gangseo-gu, Seoul, Korea, 07796

1.4. Description of EUT

Kind of Product	Telematics Module
Model Name	TM04ANNABM2
Serial Number	Conducted Sample: 00400152020000 Radiated Sample: Radio#01
Power Supply	DC 12.5 V
Rated Power	LTE Band 2, 4, 5, 7, 12, 13, 17, 25, 41, 66, 71: 23 ㏈m
Frequency Range	LTE Band 2: 1 850 ㎒ ~ 1 910 ㎒ LTE Band 4: 1 710 ㎒ ~ 1 755 ㎒ LTE Band 5: 824 ㎒ ~ 849 ㎒ LTE Band 7: 2 500 ㎒ ~ 2 570 ㎒ LTE Band 12: 699 ㎒ ~ 716 ㎒ LTE Band 13: 777 ㎒ ~ 787 ㎒ LTE Band 17: 704 ㎒ ~ 716 ㎒ LTE Band 25: 1 850 ㎒ ~ 1 915 ㎒ LTE Band 41(FCC): 2 496 ㎒ ~ 2 690 ㎒ LTE Band 41(IC): 2 500 ㎒ ~ 2 690 ㎒ LTE Band 66: 1 710 ㎒ ~ 1 780 ㎒ LTE Band 71: 663 ㎒ ~ 698 ㎒

Modulation Technique	QPSK, 16QAM
Antenna Type	Planar Inverted F Antenna
Antenna Gain※	663 ㎒ ~ 698 ㎒: -5.07 ㏈i 699 ㎒ ~ 716 ㎒: -5.07 ㏈i 777 ㎒ ~ 787 ㎒: -4.33 ㏈i 824 ㎒ ~ 849 ㎒: -4.33 ㏈i 1 710 ㎒ ~ 1 780 ㎒: 3.76 ㏈i 1 850 ㎒ ~ 1 915 ㎒: 2.23 ㏈i 2 496 ㎒ ~ 2 690 ㎒: 2.60 ㏈i
H/W Version	Rev.A0
S/W Version	v002.008.022

1.5. Introduction of Test Data Reuse

This report referenced from the FCC ID: BEJ-TM04ANNABM0 and IC Certification: 2703H-TM04ANNABM0 LTE.
The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID and IC Certification.

1.6. Difference

The FCC ID: BEJTM04ANNABM2 and IC Certification: 2703H-TM04ANNABM2 share the same enclosure as FCC ID: BEJ-TM04ANNABM0 and 2703H-TM04ANNABM0.
Applicant as the manufacturer of the following products, declared that had changed the hardware of the EUT.

Band differences between TM04ANNABM0 and TM04ANNABM2

Band	Frequency (㎒)		FDD/TDD	Band	TM04ANNABM0	TM04ANNABM2
	Tx	Rx				
B2	1 850 ~ 1 910	1 930 ~ 1 990	FDD	Mid	G, W, L	G, W, L
B4	1 710 ~ 1 755	2 110 ~ 2 155	FDD	Mid	W, L	W, L
B5	824 ~ 849	869 ~ 894	FDD	Low	G, W, L	G, W, L
B7	2 500 ~ 2 570	2 620 ~ 2 690	FDD	High	L	L
B12(B17)	699 ~ 716	729 ~ 746	FDD	Low	L	L
B13	777 ~ 787	746 ~ 756	FDD	Low	L	L
B25	1 850 ~ 1 915	1 930 ~ 1 995	FDD	Mid	L	L
B26	814 ~ 849	859 ~ 894	FDD	Low	L	-
B29	-	717 ~ 728	FDD	Low	L(RX only)	-
B30	2 305 ~ 2 315	2 350 ~ 2 360	FDD	High	L(RX only)	-
B41	2 496 ~ 2 690		TDD	High	L	L
B66	1 710 ~ 1 780	2 110 ~ 2 200	FDD	Mid	L	L
B71	663 ~ 698	617 ~ 652	FDD	Low	L	L

- G(GSM), W(WCDMA), T(TD-SCDMA), L(LTE)

After confirming through preliminary E.R.P. / E.I.R.P. and conducted power that the performance of the FCC ID: BEJ-TM04ANNABM0 and IC Certification: 2703H-TM04ANNABM0 remain representative of FCC ID: BEJ-TM04ANNABM2 and IC Certification: 2703H-TM04ANNABM2.
The test data of FCC ID: BEJ-TM04ANNABM0 and IC Certification: 2703H-TM04ANNABM0 being submitted for this application to cover LTE features.

1.7. Spot Check Data

Band	Test Item(s)	Frequency (㎒)	Limit	Original model		Spot check model		Deviation (㏈)	Remark
				TM04ANNABM0		TM04ANNABM2			
				FCC ID: BEJ-TM04ANNABM0 IC Certification: 2703H-TM04ANNABM0		FCC ID: BEJ-TM04ANNABM2 IC Certification: 2703H-TM04ANNABM2			
				(㏈m)	(W)	(㏈m)	(W)		
7	Conducted power	2 500 ~ 2 570	2 W	22.85	0.193	22.75	0.188	-0.10	-
	E.I.R.P.			28.40	0.692	26.60	0.457	-1.80	-
12/17	Conducted power	699 ~ 716	3 W	23.06	0.202	23.24	0.211	0.18	-
	E.R.P.			21.45	0.140	16.78	0.048	-4.67	-
13	Conducted power	777 ~ 787	3 W	23.13	0.206	23.42	0.220	0.29	-
	E.R.P.			23.45	0.221	17.52	0.056	-5.93	-
25/2	Conducted power	1 850 ~ 1 915	2 W	23.03	0.201	23.15	0.207	0.12	-
	E.I.R.P.			27.80	0.603	26.23	0.420	-1.57	-
41	Conducted power	2 496 ~ 2 690	2 W	22.57	0.181	22.92	0.196	0.35	-
	E.I.R.P.			28.40	0.692	26.60	0.457	-1.80	-
66/4	Conducted power	1 710 ~ 1 780	1 W	23.20	0.209	22.87	0.194	-0.33	-
	E.I.R.P.			28.30	0.676	27.76	0.597	-0.54	-
71	Conducted power	663 ~ 698	3 W	22.89	0.195	23.73	0.236	0.84	-
	E.R.P.			19.35	0.086	16.78	0.048	-2.57	-

1.8. Reference Detail

Reference applicant that contains the reused reference data in the individual test reports:

Mode	Reference FCC ID / IC Certification	Application type	Reference test report number	Exhibit type	Data reuse
LTE	FCC: BEJ-TM04ANNABM0 IC: 2703H-TM04ANNABM0	Original grant	F690501-RF-RTL000881 (LTE)	Test report	Conducted data except band 5[1)]

Note;

1) The original model (TM04ANNABM0) support LTE Bannd 26/5, so that all the test was be performed LTE26 as reference. Because of the EUT(TM04ANNABM2) not support LTE Band 26, additional conducted and radiated test were performed about LTE band 5.

1.9. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Signal Generator	Agilent	E8257D	MY51501169	Mar. 04, 2022	Annual	Mar. 04, 2023
Spectrum Analyzer	R&S	FSV30	103210	Dec. 08, 2021	Annual	Dec. 08, 2022
Spectrum Analyzer	Agilent	N9020A	MY53421758	Aug. 27, 2021	Annual	Aug. 27, 2022
Mobile Test Unit	R&S	CMW500	144034	Feb. 21, 2022	Annual	Feb. 21, 2023
Power Meter	Anritsu	ML2495A	1223004	May 25, 2022	Annual	May 25, 2023
Power Sensor	Anritsu	MA2411B	1207272	May 25, 2022	Annual	May 25, 2023
Temperature Chamber	ESPEC CORP.	SH-662	93000533	Jul. 15, 2021	Annual	Jul. 15, 2022
Low Pass Filter	Mini-Circuits	NLP-1200+	V9500401023-2	May 25, 2022	Annual	May 25, 2023
High Pass Filter	Wainwright Instrument GmbH	WHKX10-900-1000-18000 -40SS	7	Mar. 04, 2022	Annual	Mar. 04, 2023
High Pass Filter	Wainwright Instrument GmbH	WHKX1.5/15G-6SS	4	Jun. 09, 2022	Annual	Jun. 09, 2023
High Pass Filter	Wainwright Instrument GmbH	WHKX2.2/12.75G-10SS	8	Mar. 04, 2022	Annual	Mar. 04, 2023
High Pass Filter	Wainwright Instrument GmbH	WHKX3.0/18G-6SS	21	Jun. 09, 2022	Annual	Jun. 09, 2023
High Pass Filter	Wainwright Instrument GmbH	WHNX7.5/26.5G-6SS	11	Aug. 11, 2021	Annual	Aug. 11, 2022
Directional Coupler	KRYTAR	152613	122661	Mar. 04, 2022	Annual	Mar. 04, 2023
DC Power Supply	Agilent	U8002A	MY54110041	Sep. 14, 2021	Annual	Sep. 14, 2022
Preamplifier	H.P.	8447F	2944A03909	Aug. 06, 2021	Annual	Aug. 06, 2022
Preamplifier	R&S	SCU 18	10117	Jun. 13, 2022	Annual	Jun. 13, 2023
Preamplifier	TESTEK	TK-PA1840H	130016	Jan. 10, 2022	Annual	Jan. 10, 2023
Test Receiver	R&S	ESU26	100109	Jan. 18, 2022	Annual	Jan. 18, 2023
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 23, 2021	Biennial	Aug. 23, 2023
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB9163	1126	Feb. 07, 2022	Annual	Feb. 07, 2023
Horn Antenna	R&S	HF906	100326	Feb. 18, 2022	Annual	Feb. 18, 2023
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA9170	9170-540	Nov. 30, 2021	Annual	Nov. 30, 2022
Antenna Master	Innco systems GmbH	MM4000	N/A	N.C.R.	N/A	N.C.R.
Turn Table	Innco systems GmbH	DS 1200S	N/A	N.C.R.	N/A	N.C.R.
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/383 30516/L	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Coaxial Cable	RFONE	MWX221-NMSNMS (4 m)	J1023142	Apr. 04, 2022	Semi-annual	Oct. 04, 2022
Coaxial Cable	micro-coax UTiflex	142A SERIES 502839-8 (10 m)	90000034	Apr. 04, 2022	Semi-annual	Oct. 04, 2022
Coaxial Cable	RADIALL	TESTPRO 3	182287	Feb. 18, 2022	Semi-annual	Aug. 18, 2022
Coaxial Cable	RADIALL	TESTPRO 3	182288	Feb. 18, 2022	Semi-annual	Aug. 18, 2022
Coaxial Cable	RADIALL	TESTPRO 3	182291	Feb. 18, 2022	Semi-annual	Aug. 18, 2022

▶ Support Equipment

Description	Manufacturer	Model	Serial Number
N/A	-	-	-

1.10. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 2, 22, 24 and 27 / IC part RSS-130 Issue 2, RSS-132 Issue 3, RSS-133 Issue 6, RSS-139 Issue 3, RSS-199 Issue 3 and RSS-Gen Issue 5			
Section in FCC	**Section in IC**	**Test Item**	**Result**
§22.913(a)(5) §24.232(c) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2)	RSS-130 Issue 2 4.6 RSS-132 Issue 3 5.4 RSS-133 Issue 6 6.4 RSS-139 Issue 3 6.5 RSS-199 Issue 3 4.4	E.R.P. / E.I.R.P.	Complied
§22.917(a) §24.238(a) §27.53(c) §27.53(g) §27.53(h)(1) §27.53(m)(4)	RSS-130 Issue 2 4.7 RSS-132 Issue 3 5.5 RSS-133 Issue 6 6.5 RSS-139 Issue 3 6.6 RSS-199 Issue 3 4.5	Spurious Radiated Emission	Complied
§2.1046	RSS-Gen Issue 5 6.12	Conducted Output Power	Complied
§2.1049	RSS-Gen Issue 5 6.7	Occupied Bandwidth	Complied
§22.913(d) §24.232(d) §27.50(d)(5)	RSS-130 Issue 2 4.6 RSS-132 Issue 3 5.4 RSS-133 Issue 6 6.4 RSS-139 Issue 3 6.5 RSS-199 Issue 3 4.4	Peak-Average Ratio	Complied
§22.917(a) §24.238(a) §27.53(g) §27.53(h)(1) §27.53(m)(4)	RSS-130 Issue 2 4.7 RSS-132 Issue 3 5.5 RSS-133 Issue 6 6.5 RSS-139 Issue 3 6.6 RSS-199 Issue 3 4.5	Spurious Emission at Antenna Terminal	Complied
§22.917(a) §24.238(a) §27.53(g) §27.53(h)(1) §27.53(m)(4)	RSS-130 Issue 2 4.7 RSS-132 Issue 3 5.5 RSS-133 Issue 6 6.5 RSS-139 Issue 3 6.6 RSS-199 Issue 3 4.5	Band Edge	Complied
§2.1055 §22.355 §24.235 §27.54	RSS-Gen Issue 5 6.11 RSS-130 Issue 2 4.5 RSS-132 Issue 3 5.3 RSS-133 Issue 6 6.3 RSS-139 Issue 3 6.4 RSS-199 Issue 3 4.3	Frequency Stability	Complied

1.11. Sample Calculation for Offset

Where relevant, the following sample calculation is provided:

1.11.1. Conducted Test

Offset value (㏈) = Directional Coupler (㏈) + Cable loss (㏈)

1.11.2. Radiation test

- E.I.R.P. (㏈ m) = Measured level (㏈㎶) + Antenna factor (㏈/m) + Cable loss (㏈) + 20 Log D - 104.8; where D is the measurement distance in meters.
- E.R.P. (㏈ m) = E.I.R.P. (㏈ m) - 2.15 (㏈)

1.12. Device Capabilities

This device contains the following capabilities;

LTE Band 2 (1 850 ㎒ ~ 1 910 ㎒) is covered by LTE Band 25 (1 850 ㎒ ~ 1 915 ㎒) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth. Therefore test data provided in this report covers LTE Band 4 as well as Band 66.
LTE Band 4 (1 710 ㎒ ~ 1 755 ㎒) is covered by LTE Band 66 (1 710 ㎒ ~ 1 780 ㎒) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth. Therefore test data provided in this report covers LTE Band 4 as well as Band 66.
LTE Band 17 (704 ㎒ ~ 716 ㎒) is covered by LTE Band 12 (699 ㎒ ~ 716 ㎒) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth. Therefore test data provided in this report covers LTE Band 17 as well as Band 12.

1.13. Worst Case Configuration and Mode

The worst-case is based on the conducted output power measurement investigation results. All testing was performed using QPSK and 16QAM modulations. However, the spurious radiated emission and spurious at antenna terminal were only performed on bandwidth and RB offset (with RB size 1) with the highest conducted power in QPSK.

The radiation test of the EUT was investigated in three orthogonal orientations X, Y, and Z, and the worst case data is reported.

1.14. Measurement Configuration

Test Items	Band	Test Channel			Bandwidth (㎒)				Modulation				RB #		
		Low	Mid	High	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
Conducted Output Power	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
	12/17	V	V	V	V	V	V	V			V	V	V	V	V
	13	V	V	V			V	V			V	V	V	V	V
	25/2	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	41	V	V	V			V	V	V	V	V	V	V	V	V
	66/4	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	71	V	V	V			V	V	V	V	V	V	V	V	V
Frequency Stability	5	-	V	-	-	-	V	-			V	-	-	-	V
Occupied Bandwidth	5	-	V	-	V	V	V	V			V	V	-	-	V
Peak-to-Average Ratio	5	V	V	V	V	V	V	V			V	-	-	-	V
Band edge	5	V	-	V	V	V	V	V			V	V	V	-	V
Spurious at antenna terminal	5	V	V	V	V	V	V	V			V	-	V		
Spurious Radiated Emission	5	V	V	V	-	V	-	-			V	-	-	V	-

Remark;

All supported LTE bands' frequency stability, occupied bandwidth, peak to average radio, band edge and spurious emission at antenna terminal have been tested in the approved module test report except LTE 5.

- Module model name : TM04ANNABM0
- Test report Number : F690501-RF-RTL000881
- Issue date : 2020.07.03
- Test Laboratory : SGS Korea Co., Ltd.

1.15. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty	
RF Output Power	0.32 dB	
Occupied Bandwidth	3.90 ㎑	
Conducted Spurious Emissions	0.61 dB	
Peak to Average Ratio	0.60 dB	
Frequency Stability	5.97 ㎑	
Radiated Emission, 9 ㎑ to 30 ㎒	H	3.30 dB
	V	3.30 dB
Radiated Emission, below 1 ㎓	H	4.80 dB
	V	5.20 dB
Radiated Emission, above 1 ㎓	H	3.90 dB
	V	4.00 dB

All measurement uncertainty values are shown with a coverage factor of *k*=2 to indicate a 95 % level of confidence.

1.16. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL003310	2022.07.20	Initial

1.17. Emission Designator and Max Power

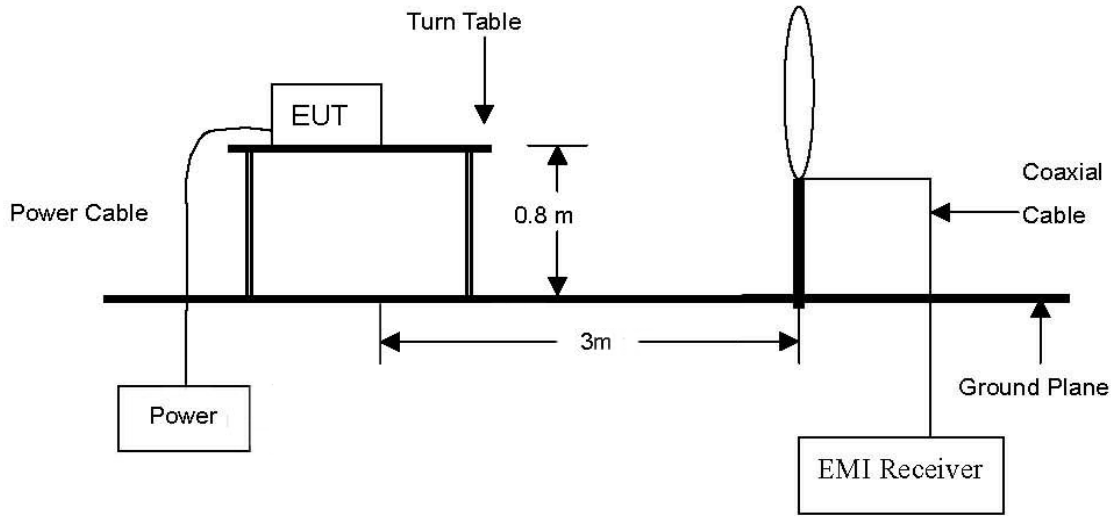
Band	Frequency Range (㎒)	Modulation	Emission Designator	E.R.P. / E.I.R.P.	
				Max power (㏈m)	Max power (W)
5	824.7 ~ 848.3	QPSK	1M09G7D	17.52	0.056
		16QAM	1M09D7D		
	825.5 ~ 847.5	QPSK	2M69G7D		
		16QAM	2M69D7D		
	826.5 ~ 846.5	QPSK	4M52G7D		
		16QAM	4M50D7D		
	829 ~ 844	QPSK	8M94G7D		
		16QAM	8M97D7D		
7	2 502.5 ~ 2 567.5	QPSK	4M53G7D	26.60	0.457
		16QAM	4M52D7D		
	2 505 ~ 2 565	QPSK	8M97G7D		
		16QAM	8M97D7D		
	2 507.5 ~ 2 562.5	QPSK	13M5G7D		
		16QAM	13M5D7D		
	2 510 ~ 2 560	QPSK	17M9G7D		
		16QAM	17M9D7D		
12/17	699.7 ~ 715.3	QPSK	1M10G7D	16.78	0.048
		16QAM	1M10D7D		
	700.5 ~ 714.5	QPSK	2M69G7D		
		16QAM	2M69D7D		
	701.5 ~ 713.5	QPSK	4M52G7D		
		16QAM	4M53D7D		
	704 ~ 711	QPSK	8M97G7D		
		16QAM	8M97D7D		
13	779.5 ~ 784.5	QPSK	4M52G7D	17.52	0.056
		16QAM	4M53D7D		
	782	QPSK	8M92G7D		
		16QAM	8M94D7D		
25/2	1 850.7 ~ 1 914.3	QPSK	1M10G7D	26.23	0.420
		16QAM	1M10D7D		
	1 851.5 ~ 1 913.5	QPSK	2M69G7D		
		16QAM	2M70D7D		
	1 852.5 ~ 1 912.5	QPSK	4M52G7D		
		16QAM	4M53D7D		
	1 855 ~ 1 910	QPSK	8M97G7D		
		16QAM	8M97D7D		
	1 857.5 ~ 1 907.5	QPSK	13M6G7D		
		16QAM	13M5D7D		
	1 860 ~ 1905	QPSK	18M0G7D		
		16QAM	18M0D7D		

Band	Frequency Range (㎒)	Modulation	Emission Designator	E.R.P. / E.I.R.P.	
				Max power (dB m)	Max power (W)
41_FCC	2 498.5 ~ 2 687.5	QPSK	4M53G7D	26.60	0.457
		16QAM	4M53D7D		
	2 501.0 ~ 2 685.0	QPSK	8M97G7D		
		16QAM	8M97D7D		
	2 503.5 ~ 2 682.5	QPSK	13MG7D		
		16QAM	13M5D7D		
	2 506.0 ~ 2 680.0	QPSK	17M9G7D		
		16QAM	17M9D7D		
41_IC	2 502.5 ~ 2 687.5	QPSK	4M53G7D	26.60	0.457
		16QAM	4M53D7D		
	2 505.0 ~ 2 685.0	QPSK	8M97G7D		
		16QAM	8M97D7D		
	2 507.5 ~ 2 682.5	QPSK	13MG7D		
		16QAM	13M5D7D		
	2 510.0 ~ 2 680.0	QPSK	17M9G7D		
		16QAM	17M9D7D		
66/4	1710.7 ~ 1754.3	QPSK	1M10G7D	27.76	0.597
		16QAM	1M10D7D		
	1 711.5 ~ 1 753.5	QPSK	2M70G7D		
		16QAM	2M69D7D		
	1 712.5 ~ 1 752.5	QPSK	4M52G7D		
		16QAM	4M52D7D		
	1 715 ~ 1 750	QPSK	8M97G7D		
		16QAM	8M97D7D		
	1 717.5 ~ 1 747.5	QPSK	13M5G7D		
		16QAM	13M5D7D		
	1 720 ~ 1 745	QPSK	17M9G7D		
		16QAM	18M0D7D		
71	665.5 ~ 695.5	QPSK	4M52G7D	16.78	0.048
		16QAM	4M53D7D		
	668.0 ~ 693.0	QPSK	8M97G7D		
		16QAM	8M97D7D		
	670.5 ~ 690.5	QPSK	13M5G7D		
		16QAM	13M5D7D		
	673.0 ~ 688.0	QPSK	17M9G7D		
		16QAM	18M0D7D		

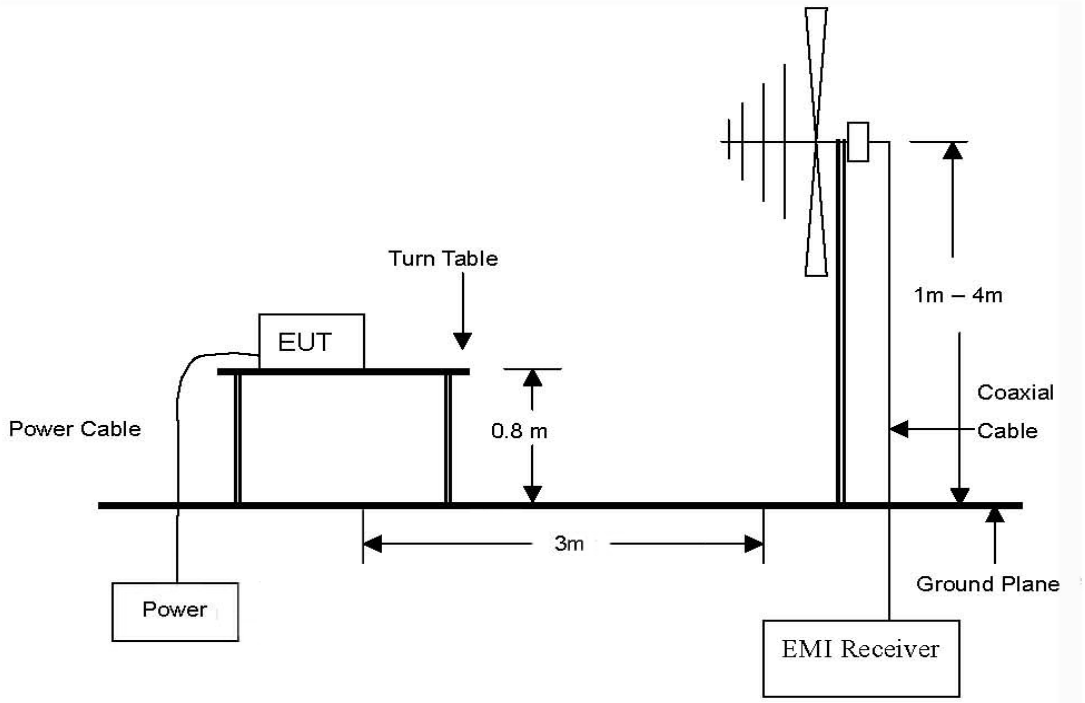
2. E.R.P. / E.I.R.P. & Spurious Radiated Emission

2.1. Test setup

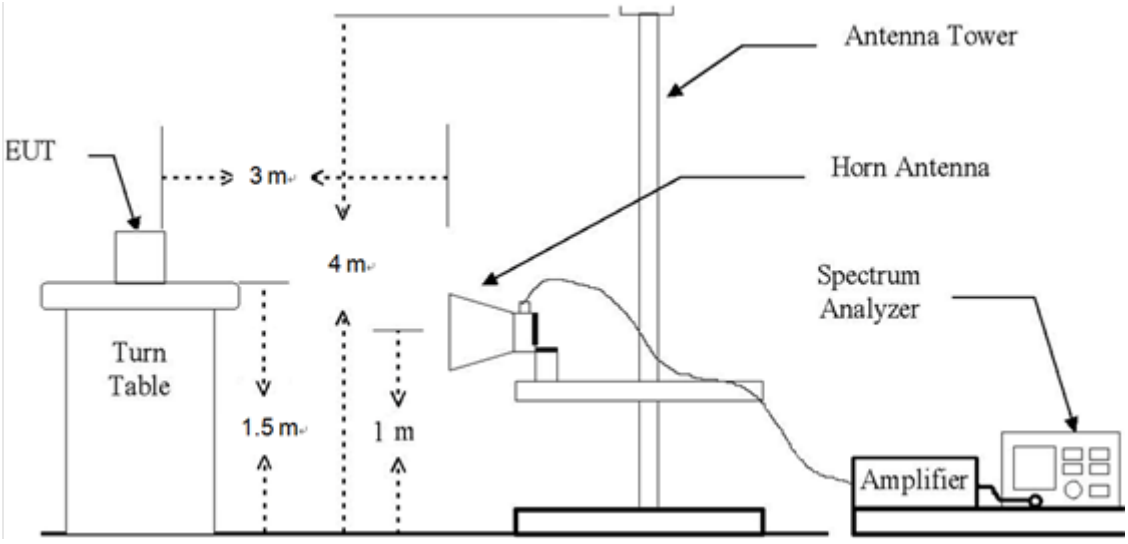
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 ㎑ to 30 ㎒.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 ㎒ to 1 ㎓ Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 ㎓ to 26 ㎓ Emissions.



2.2. Limit

2.2.1. Limit of E.R.P. / E.I.R.P.

FCC
- §22.913(a)(5), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

- §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

- §27.50(d)(4), fixed, mobile, and portable (hand-held) stations operating in the 1 710-1 755 ㎒ band and mobile and portable stations operating in the 1 695-1 710 ㎒ and 1 755-1 780 ㎒ bands are limited to 1 watt EIRP.

- §27.50(h)(2), mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

IC
- RSS-130 Issue 2
4.6.3, the e.r.p. shall not exceed 30 watts for mobile equipment and outdoor fixed subscriber equipment. The e.r.p. shall not exceed 3 watts for portable equipment and indoor fixed subscriber equipment.

For base and fixed equipment other than fixed subscriber equipment, refer to SRSP-518 for the e.i.r.p. limits.

- RSS-132 Issue 3
5.4, the transmitter output power shall be measured in terms of average power.
The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment shall not exceed 11.5 watts.
Refer to SRSP-503 for base station e.i.r.p. limits.

- RSS-133 Issue 6
6.4, the equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed the limits given in SRSP-510. Mobile stations and hand-held portables are limited to 2 watts maximum e.i.r.p. The equipment shall employ means to limit the power to the minimum necessary for successful communication.

- RSS-139 Issue 3
6.5, the equivalent isotropically radiated power (e.i.r.p.) for mobile and portable transmitters shall not exceed one watt. The e.i.r.p. for fixed and base stations in the band 1 710-1 780 ㎒ shall not exceed one watt.

- RSS-199 Issue 3
4.4, the transmitter output power shall be measured in terms of average value.
For base station equipment, refer to SRSP-517 for the maximum permissible e.i.r.p.
For mobile subscriber equipment, the e.i.r.p. shall not exceed 2 W. For fixed subscriber equipment, the transmitter output power shall not exceed 2 W and the e.i.r.p. shall be limited to 40 W.

2.2.2. Limit of Spurious Radiated Emission

FCC

- §22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) ㏈.

- §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) ㏈.

- §27.53(c)(2), on any frequency outside the 776-788 ㎒ band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) ㏈.

- §27.53(g), the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) ㏈.

- §27.53(h)(1), for operations in the 1 695-1 710 ㎒, 1 710-1 755 ㎒, 1 755-1 780 ㎒, 1 915-1 920 ㎒, 1 995-2 000 ㎒, 2 000-2 020 ㎒, 2 110-2 155 ㎒, 2 155-2 180 ㎒, and 2 180-2 200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 $\log_{10}$ (P) ㏈.

- §27.53(m)(4), for mobile digital stations, the attenuation factor shall be not less than 40 + 10 $\log_{10}$ (P) ㏈ on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 $\log_{10}$ (P) ㏈ on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 $\log_{10}$ (P) ㏈ on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 $\log_{10}$ (P) ㏈ on all frequencies between 2490.5 ㎒ and 2496 ㎒ and 55 + 10 $\log_{10}$ (P) ㏈ at or below 2490.5 ㎒. Mobile Satellite Service licensees operating on frequencies below 2495 ㎒ 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.

IC

- RSS-130 Issue 2

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

- RSS-132 Issue 3

5.5, Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

(i) In the first 1.0 ㎒ band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1 % of the occupied bandwidth shall be attenuated (in ㏈) below the transmitter output power P (㏈W) by at least 43 + 10 $\log_{10}$ p (watts).

(ii) After the first 1.0 ㎒ immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 ㎑ bandwidth shall be attenuated (in ㏈) below the transmitter output power P (㏈W) by at least 43 + 10 $\log_{10}$ p (watts). If the measurement is performed using 1 % of the occupied bandwidth, power integration over 100 ㎑ is required.

- RSS-133 Issue 6
6.5, Equipment shall comply with the limits in (i) and (ii) below.

(i) In the 1.0 ㎒ bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1 % of the emission bandwidth shall be attenuated (in ㏈) below the transmitter output power P (㏈ W) by at least 43 + 10 $\log_{10}$ p(watts).

(ii) After the first 1.0 ㎒, the emission power in any 1 ㎒ bandwidth shall be attenuated (in ㏈) below the transmitter output power P (㏈ W) by at least 43 + 10 $\log_{10}$ p(watts). If the measurement is performed using 1 % of the emission bandwidth, power integration over 1.0 ㎒ is required.

- RSS-139 Issue 3
6.6, (i) In the first 1.0 ㎒ bands immediately outside and adjacent to the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power per any 1 % of the emission bandwidth shall be attenuated below the transmitter output power P (in ㏈ W) by at least 43 + 10 $\log_{10}$ p (watts) ㏈.

(ii) After the first 1.0 ㎒ outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 ㎒ bandwidth shall be attenuated below the transmitter output power P (in ㏈ W) by at least 43 + 10 $\log_{10}$ p (watts) ㏈.

- RSS-199 Issue 3
4.5, In the 1 ㎒ band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1 % of the occupied bandwidth for base station and fixed subscriber equipment, and 2 % for mobile subscriber equipment. Beyond the 1 ㎒ band, a resolution bandwidth of 1 ㎒ shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 ㎒, or 1 % or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

a. for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in ㏈) below the transmitter power, P (㏈W), by at least 43 + 10 $\log_{10}$ p
b. for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in ㏈) below the transmitter power, P (㏈W), by at least:

   i. 40 + 10 $\log_{10}$ p from the channel edges to 5 ㎒ away
   ii. 43 + 10 $\log_{10}$ p between 5 ㎒ and X ㎒ from the channel edges, and
   iii. 55 + 10 $\log_{10}$ p at X ㎒ and beyond from the channel edges

   In addition, the attenuation shall not be less than 43 + 10 $\log_{10}$ p on all frequencies between 2490.5 ㎒ and 2496 ㎒, and 55 + 10 $\log_{10}$ p at or below 2490.5 ㎒.

In (a) and (b), p is the transmitter power measured in watts and X is 6 ㎒ or the equipment occupied bandwidth, whichever is greater.

2.3. Test Procedure: Based on ANSI/TIA 603E: 2016 and ANSI C63.26-2015 and KDB 971168 D01 Power Meas License Digital Systems v03r01.

1. On a test site, the EUT shall be placed at 0.8 m or 1.5 m height on a turn table, and in the position close to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. Radiated spurious emissions measurement method was set as follows:
   RBW = 100 ㎑ for emissions below 1 ㎓ and 1 ㎒ for emissions above 1 ㎓, VBW ≥ 3 x RBW,
   Detector = RMS, trace mode = max hold.
5. The transmitter shall be switched on, the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.
7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
11. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
12. The measurement shall be repeated with the test antenna orientated for horizontal polarization.

2.4. Test result for E.R.P. / E.I.R.P.

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

Band	Frequency (㎒)	Maximum Average Power (dB m)	Maximum Average Power (W)	Antenna Gain (dB i)	Maximum E.I.R.P. (dB m)	Maximum E.I.R.P. (W)	Maximum E.R.P. (dB m)	Maximum E.R.P. (W)	Output Power Limit
5	824 ~ 849	24.00	0.251	-4.33	19.67	0.093	17.52	0.056	7 W E.R.P.
7	2 500 ~ 2 570	24.00	0.251	2.60	26.60	0.457			2 W E.I.R.P.
12/17	699 ~ 716	24.00	0.251	-5.07	18.93	0.078	16.78	0.048	3 W E.R.P.
13	777 ~ 787	24.00	0.251	-4.33	19.67	0.093	17.52	0.056	3 W E.R.P.
25/2	1 850 ~ 1 915	24.00	0.251	2.23	26.23	0.420			2 W E.I.R.P.
41	2 496 ~ 2 690	24.00	0.251	2.60	26.60	0.457			2 W E.I.R.P.
66/4	1 710 ~ 1 780	24.00	0.251	3.76	27.76	0.597			1 W E.I.R.P.
71	663 ~ 698	24.00	0.251	-5.07	18.93	0.078	16.78	0.048	3 W E.R.P.

Remark;

1. E.I.R.P. (dB m) = Maximum Average Power (dB m) + Antenna Gain (dB i)
2. E.R.P. (dB m) = E.I.R.P. (dB m) - 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.

2.5. Spurious radiated emission

LTE band 5 (3 ㎒ - QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (825.5 ㎒)									
Above 0.009	Not detected	-	-	-	-	-	-	-	-
Middle Channel (836.5 ㎒)									
Above 0.009	Not detected	-	-	-	-	-	-	-	-
High Channel (847.5 ㎒)									
Above 0.009	Not detected	-	-	-	-	-	-	-	-

LTE band 7 (20 ㎒ - QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 510.0 ㎒)									
5 002.13	50.47	H	33.00	-26.61	56.86	-95.26	-38.40	-25	13.40
5 002.21	50.81	V	33.00	-26.61	57.20	-95.26	-38.06	-25	13.06
7 503.37	39.38	V	35.90	-22.79	52.49	-95.26	-42.77	-25	17.77
Above 7 600.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 535.0 ㎒)									
5 052.21	48.17	H	33.01	-26.43	54.75	-95.26	-40.51	-25	15.51
5 052.25	52.36	V	33.01	-26.43	58.94	-95.26	**-36.32**	-25	11.32
7 578.25	44.68	V	35.90	-22.71	57.87	-95.26	-37.39	-25	12.39
10 104.19	36.49	H	37.81	-20.62	53.68	-95.26	-41.58	-25	16.58
Above 10 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 560.0 ㎒)									
5 102.13	45.16	H	33.20	-26.03	52.33	-95.26	-42.93	-25	17.93
5 102.17	50.78	V	33.20	-26.04	57.94	-95.26	-37.32	-25	12.32
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-

LTE band 12/17 (3 ㎒ - QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (700.5 ㎒)									
1 399.08	53.69	H	25.10	-37.26	41.53	-97.41	-55.88	-13	42.88
2 399.96	48.69	H	28.10	-34.40	42.39	-97.41	-55.02	-13	42.02
2 399.70	51.95	V	28.10	-34.40	45.65	-97.41	**-51.76**	-13	38.76
Above 2 400.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (707.5 ㎒)									
1 406.09	52.56	H	25.09	-37.24	40.41	-97.41	-57.00	-13	44.00
2 400.54	51.88	H	28.10	-34.40	45.58	-97.41	-51.83	-13	38.83
2 400.10	50.45	V	28.10	-34.40	44.15	-97.41	-53.26	-13	40.26
Above 2 500.00	Not detected	-	-	-	-	-	-	-	-
High Channel (714.5 ㎒)									
1 413.15	52.81	H	25.07	-37.23	40.65	-97.41	-56.76	-13	43.76
2 399.88	48.58	H	28.10	-34.40	42.28	-97.41	-55.13	-13	42.13
2 399.95	49.64	V	28.10	-34.40	43.34	-97.41	-54.07	-13	41.07
Above 2 400.00	Not detected	-	-	-	-	-	-	-	-

LTE band 13 (10 ㎒ - QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (782.0 ㎒)									
1 555.16	52.45	H	25.32	-36.90	40.87	-97.41	**-56.54**	-13	43.54
1 555.12	44.11	V	25.32	-36.90	32.53	-97.41	-64.88	-13	51.88
Above 1 600.00	Not detected	-	-	-	-	-	-	-	-

LTE band 25/2 (20 ㎒ - QPSK)

Frequency (㎒)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 860.0 ㎒)									
3 702.14	56.43	H	32.10	-31.01	57.52	-95.26	-37.74	-13	24.74
3 701.95	56.90	V	32.10	-31.01	57.99	-95.26	-37.27	-13	24.27
5 553.21	59.61	H	33.90	-26.01	67.50	-95.26	-27.76	-13	14.76
5 553.26	60.56	V	33.90	-26.01	68.45	-95.26	**-26.81**	-13	13.81
9 255.01	51.60	H	37.21	-21.15	67.66	-95.26	-27.60	-13	14.60
9 255.37	47.28	V	37.21	-21.17	63.32	-95.26	-31.94	-13	18.94
11 106.87	32.76	H	38.20	-17.89	53.07	-95.26	-42.19	-13	29.19
11 106.46	38.82	V	38.20	-17.88	59.14	-95.26	-36.12	-13	23.12
Above 11 200.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 882.5 ㎒)									
3 747.10	55.65	H	32.19	-30.55	57.29	-95.26	-37.97	-13	24.97
3 747.20	57.14	V	32.19	-30.55	58.78	-95.26	-36.48	-13	23.48
5 620.69	52.95	H	33.90	-25.42	61.43	-95.26	-33.83	-13	20.83
5 620.89	52.99	V	33.90	-25.42	61.47	-95.26	-33.79	-13	20.79
9 368.19	44.15	H	37.47	-21.03	60.59	-95.26	-34.67	-13	21.67
9 367.81	45.99	V	37.47	-21.03	62.43	-95.26	-32.83	-13	19.83
11 241.66	39.82	H	38.20	-18.53	59.49	-95.26	-35.77	-13	22.77
11 241.60	39.71	V	38.20	-18.54	59.37	-95.26	-35.89	-13	22.89
Above 11 300.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 905.0 ㎒)									
3 792.26	57.05	H	32.03	-30.68	58.40	-95.26	-36.86	-13	23.86
3 792.14	59.72	V	32.03	-30.68	61.07	-95.26	-34.19	-13	21.19
5 688.40	46.61	H	33.90	-25.17	55.34	-95.26	-39.92	-13	26.92
5 688.16	47.37	V	33.90	-25.17	56.10	-95.26	-39.16	-13	26.16
9 480.66	45.42	H	37.70	-20.84	62.28	-95.26	-32.98	-13	19.98
9 480.62	46.44	V	37.70	-20.84	63.30	-95.26	-31.96	-13	18.96
11 376.43	37.15	H	38.35	-18.07	57.43	-95.26	-37.83	-13	24.83
11 376.47	33.88	V	38.35	-18.07	54.16	-95.26	-41.10	-13	28.10
Above 11 400.00	Not detected	-	-	-	-	-	-	-	-

LTE band 41_FCC (20 ㎒ - QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 506.0 ㎒)									
4 994.25	48.76	H	33.00	-26.70	55.06	-95.26	-40.20	-25	15.20
4 994.03	50.88	V	33.00	-26.70	57.18	-95.26	-38.08	-25	13.08
7 491.48	43.85	H	35.92	-22.76	57.01	-95.26	-38.25	-25	13.25
7 491.21	43.54	V	35.92	-22.76	56.70	-95.26	-38.56	-25	13.56
12 485.48	33.12	H	38.47	-17.05	54.54	-95.26	-40.72	-25	15.72
12 485.40	40.18	V	38.47	-17.06	61.59	-95.26	-33.67	-25	8.67
Above 12 500.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 593.0 ㎒)									
5 168.13	50.24	H	33.37	-26.28	57.33	-95.26	-37.93	-25	12.93
5 168.34	54.05	V	33.37	-26.28	61.14	-95.26	-34.12	-25	9.12
7 752.28	47.84	H	36.00	-22.38	61.46	-95.26	-33.80	-25	8.80
7 752.33	51.34	V	36.00	-22.38	64.96	-95.26	**-30.30**	-25	5.30
10 335.90	35.12	H	37.80	-19.99	52.93	-95.26	-42.33	-25	17.33
10 336.35	44.70	V	37.80	-20.00	62.50	-95.26	-32.76	-25	7.76
12 920.30	38.08	H	39.00	-15.79	61.29	-95.26	-33.97	-25	8.97
12 920.40	38.14	V	39.00	-15.78	61.36	-95.26	-33.90	-25	8.90
Above 13 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 680.0 ㎒)									
5 342.13	44.77	H	33.88	-26.17	52.48	-95.26	-42.78	-25	17.78
5 342.07	51.37	V	33.88	-26.17	59.08	-95.26	-36.18	-25	11.18
8 013.42	38.99	H	36.13	-21.45	53.67	-95.26	-41.59	-25	16.59
8 013.39	39.17	V	36.13	-21.45	53.85	-95.26	-41.41	-25	16.41
Above 8 100.00	Not detected	-	-	-	-	-	-	-	-

LTE band 41_IC (20 ㎒ - QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 510.0 ㎒)									
4 994.26	48.55	H	33.00	-26.70	54.85	-95.26	-40.41	-25	15.41
4 994.56	50.69	V	33.00	-26.70	56.99	-95.26	-38.27	-25	13.27
7 491.85	43.12	H	35.92	-22.76	56.28	-95.26	-38.98	-25	13.98
7 491.14	43.25	V	35.92	-22.76	56.41	-95.26	-38.85	-25	13.85
12 485.17	33.01	H	38.47	-17.06	54.42	-95.26	-40.84	-25	15.84
12 485.12	40.06	V	38.47	-17.06	61.47	-95.26	-33.79	-25	8.79
Above 12 500.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 595.0 ㎒)									
5 168.25	50.20	H	33.37	-26.28	57.29	-95.26	-37.97	-25	12.97
5 168.15	53.84	V	33.37	-26.28	60.93	-95.26	-34.33	-25	9.33
7 752.56	47.26	H	36.00	-22.38	60.88	-95.26	-34.38	-25	9.38
7 752.86	51.28	V	36.00	-22.38	64.90	-95.26	**-30.36**	-25	5.36
10 335.60	35.06	H	37.80	-19.99	52.87	-95.26	-42.39	-25	17.39
10 336.81	44.55	V	37.80	-20.00	62.35	-95.26	-32.91	-25	7.91
12 920.86	37.95	H	39.00	-15.76	61.19	-95.26	-34.07	-25	9.07
12 920.45	37.64	V	39.00	-15.78	60.86	-95.26	-34.40	-25	9.40
Above 13 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 680.0 ㎒)									
5 342.56	43.85	H	33.89	-26.17	51.57	-95.26	-43.69	-25	18.69
5 342.15	51.25	V	33.88	-26.17	58.96	-95.26	-36.30	-25	11.30
8 013.58	38.18	H	36.13	-21.45	52.86	-95.26	-42.40	-25	17.40
8 013.64	39.02	V	36.13	-21.45	53.70	-95.26	-41.56	-25	16.56
Above 8 100.00	Not detected	-	-	-	-	-	-	-	-

LTE band 66/4 (20 ㎒ - QPSK)

Frequency (㎒)	Measured Level (dB㎶)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB㎶/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 720.0 ㎒)									
3 422.29	45.95	H	30.88	-32.81	44.02	-95.26	-51.24	-13	38.24
3 422.14	47.75	V	30.88	-32.81	45.82	-95.26	-49.44	-13	36.44
5 133.11	45.07	H	33.27	-26.59	51.75	-95.26	-43.51	-13	30.51
5 133.18	49.46	V	33.27	-26.59	56.14	-95.26	-39.12	-13	26.12
8 555.45	40.21	H	36.51	-21.59	55.13	-95.26	-40.13	-13	27.13
8 555.68	41.03	V	36.51	-21.59	55.95	-95.26	-39.31	-13	26.31
10 266.41	31.75	H	37.80	-19.70	49.85	-95.26	-45.41	-13	32.41
10 266.72	36.54	V	37.80	-19.68	54.66	-95.26	-40.60	-13	27.60
Above 10 300.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 745.0 ㎒)									
3 472.22	44.82	H	31.10	-32.56	43.36	-95.26	-51.90	-13	38.90
3 472.23	45.52	V	31.10	-32.56	44.06	-95.26	-51.20	-13	38.20
5 208.22	43.40	H	33.52	-26.15	50.77	-95.26	-44.49	-13	31.49
5 208.25	46.83	V	33.52	-26.15	54.20	-95.26	-41.06	-13	28.06
8 680.69	36.11	H	36.82	-22.24	50.69	-95.26	-44.57	-13	31.57
8 680.49	37.80	V	36.82	-22.24	52.38	-95.26	-42.88	-13	29.88
10 416.46	37.02	H	37.80	-20.45	54.37	-95.26	-40.89	-13	27.89
10 416.71	41.69	V	37.80	-20.46	59.03	-95.26	-36.23	-13	23.23
Above 10 500.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 770.0 ㎒)									
3 522.35	45.86	H	31.06	-32.77	44.15	-95.26	-51.11	-13	38.11
3 522.12	43.20	V	31.06	-32.77	41.49	-95.26	-53.77	-13	40.77
5 283.25	46.85	H	33.73	-26.10	54.48	-95.26	-40.78	-13	27.78
5 283.35	47.33	V	33.73	-26.10	54.96	-95.26	-40.30	-13	27.30
8 805.26	40.72	H	37.11	-21.19	56.64	-95.26	-38.62	-13	25.62
8 805.55	47.25	V	37.11	-21.19	63.17	-95.26	**-32.09**	-13	19.09
10 566.65	33.44	H	37.73	-20.24	50.93	-95.26	-44.33	-13	31.33
Above 10 600.00	Not detected	-	-	-	-	-	-	-	-

LTE band 71 (15 ㎒ - QPSK)

Frequency (㎒)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (670.5 ㎒)									
1 327.62	58.39	H	25.10	-37.47	46.02	-97.41	-51.39	-13	38.39
1 327.80	53.65	V	25.10	-37.47	41.28	-97.41	-56.13	-13	43.13
Above 1 400.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (680.5 ㎒)									
1 347.68	59.86	H	25.10	-37.48	47.48	-97.41	-49.93	-13	36.93
1 347.62	48.94	V	25.10	-37.48	36.56	-97.41	-60.85	-13	47.85
Above 1 400.00	Not detected	-	-	-	-	-	-	-	-
High Channel (690.5 ㎒)									
1 367.72	61.91	H	25.10	-37.41	49.60	-97.41	-47.81	-13	34.81
1 367.82	46.77	V	25.10	-37.41	34.46	-97.41	-62.95	-13	49.95
Above 1 400.00	Not detected	-	-	-	-	-	-	-	-

Remark;

1. AF = Antenna Factor, CL = Cable Loss, CF = Conversion Factor.
2. E (dBμV/m) = Measured Level (dBμV) + Antenna Factor (dB/m) + AMP (dB) + Cable Loss (dB).
3. E.I.R.P. (dB m) = E (dBμV/m) + CF (dB).
4. E.R.P. (dB m) = E (dBμV/m) + CF (dB) - 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.
5. CF (dB) = 20 log D - 104.8; where D is the measurement distance in meters, According to KDB 971168 D01 v03r01 5.8.4.
6. The frequency spectrum is examined from 9 ㎑ to the 10th harmonic of the fundamental frequency of the transmitter. No other spurious and harmonic emissions were reported greater than listed emissions above table.

3. Conducted Output Power

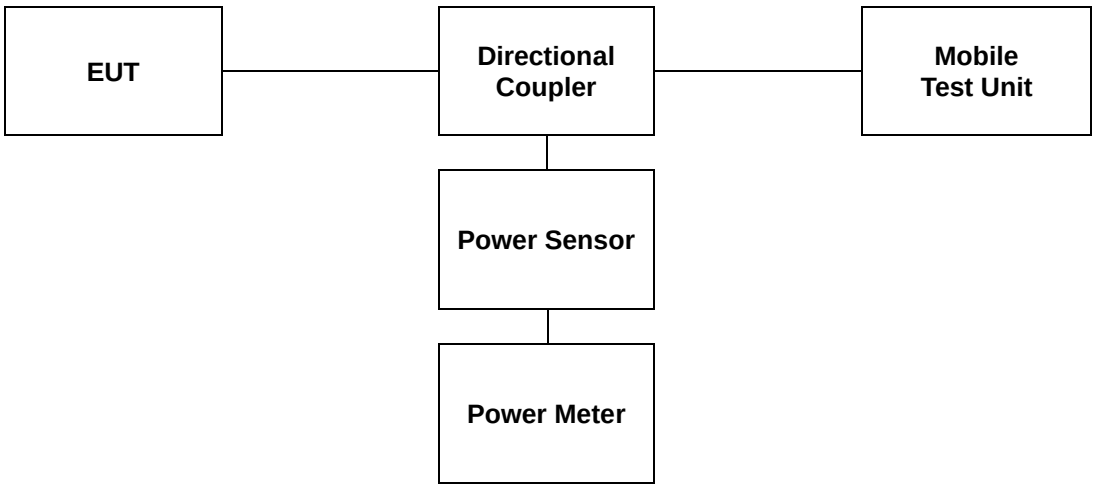
3.1. Limit

CFR 47, Section FCC §2.1046 and IC RSS-Gen Issue 5 6.12.

3.2. Test Procedure

Output power shall be measured at the RF output terminals for all configurations.

1. The RF output of the transmitter was connected to the input of the mobile test unit in order to establish communication with the EUT.
2. The EUT was set up for the max. output power with pseudo random data modulation by using mobile test unit parameters.
3. The measurement performed using a wideband RF power meter.
4. This EUT was tested under all configurations and the highest power was investigated and reported.



3.3. Test Result

Ambient temperature : (23 ± 1) ℃

Relative humidity : 47 % R.H.

LTE Band 5									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20407 (824.7 ㎒)		20525 (836.5 ㎒)		20643 (848.3 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.57	0.181	22.80	0.191	22.59	0.182
		1	3	22.63	0.183	**22.86**	**0.193**	22.65	0.184
		1	5	22.64	0.184	22.76	0.189	22.72	0.187
		3	0	22.53	0.179	22.78	0.190	22.63	0.183
		3	2	22.59	0.182	22.83	0.192	22.64	0.184
		3	3	22.68	0.185	22.78	0.190	22.69	0.186
		6	0	21.61	0.145	21.76	0.150	21.58	0.144
	16QAM	1	0	21.93	0.156	22.09	0.162	22.03	0.160
		1	3	22.01	0.159	22.23	0.167	22.11	0.163
		1	5	21.96	0.157	22.05	0.160	22.04	0.160
		3	0	21.81	0.152	21.88	0.154	21.83	0.152
		3	2	21.81	0.152	21.94	0.156	21.89	0.155
		3	3	21.85	0.153	21.92	0.156	21.87	0.154
		6	0	20.73	0.118	20.80	0.120	20.76	0.119

LTE Band 5									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20415 (825.5 ㎒)		20525 (836.5 ㎒)		20635 (847.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	22.72	0.187	22.88	0.194	**23.00**	**0.200**
		1	7	22.82	0.191	22.93	0.196	22.84	0.192
		1	14	22.79	0.190	22.83	0.192	22.71	0.187
		8	0	21.83	0.152	21.85	0.153	21.81	0.152
		8	4	21.86	0.153	21.87	0.154	21.82	0.152
		8	7	21.82	0.152	21.81	0.152	21.80	0.151
		15	0	21.82	0.152	21.82	0.152	21.83	0.152
	16QAM	1	0	22.05	0.160	22.12	0.163	22.07	0.161
		1	7	22.25	0.168	22.25	0.168	22.21	0.166
		1	14	22.06	0.161	22.12	0.163	22.02	0.159
		8	0	20.92	0.124	20.88	0.122	22.87	0.194
		8	4	20.93	0.124	20.90	0.123	22.92	0.196
		8	7	20.87	0.122	20.87	0.122	20.81	0.121
		15	0	20.84	0.121	20.85	0.122	20.84	0.121

LTE Band 5									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20425 (826.5 ㎒)		20525 (836.5 ㎒)		20625 (846.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.66	0.185	**22.86**	**0.193**	22.71	0.187
		1	12	22.79	0.190	22.84	0.192	22.82	0.191
		1	24	22.77	0.189	22.84	0.192	22.83	0.192
		12	0	21.85	0.153	21.83	0.152	21.84	0.153
		12	6	21.84	0.153	21.86	0.153	21.86	0.153
		12	13	21.81	0.152	21.80	0.151	21.80	0.151
		25	0	21.81	0.152	21.84	0.153	21.79	0.151
	16QAM	1	0	22.12	0.163	22.16	0.164	22.10	0.162
		1	12	22.14	0.164	22.05	0.160	22.13	0.163
		1	24	22.01	0.159	22.10	0.162	22.08	0.161
		12	0	20.89	0.123	20.91	0.123	20.90	0.123
		12	6	20.90	0.123	20.84	0.121	20.85	0.122
		12	13	20.84	0.121	20.88	0.122	20.86	0.122
		25	0	20.81	0.121	20.88	0.122	20.87	0.122

LTE Band 5									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20450 (829.0 ㎒)		20525 (836.5 ㎒)		20600 (844.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	22.72	0.187	22.84	0.192	22.89	0.195
		1	25	22.78	0.190	22.82	0.191	**22.95**	**0.197**
		1	49	22.89	0.195	22.87	0.194	22.86	0.193
		25	0	22.72	0.187	22.84	0.192	22.92	0.196
		25	12	22.79	0.190	22.87	0.194	22.94	0.197
		25	25	22.85	0.193	22.85	0.193	22.92	0.196
		50	0	22.80	0.191	21.83	0.152	21.88	0.154
	16QAM	1	0	22.03	0.160	22.17	0.165	22.34	0.171
		1	25	22.10	0.162	22.20	0.166	22.27	0.169
		1	49	22.17	0.165	22.16	0.164	22.12	0.163
		25	0	21.78	0.151	21.90	0.155	21.96	0.157
		25	12	21.95	0.157	21.92	0.156	21.95	0.157
		25	25	21.96	0.157	21.91	0.155	21.95	0.157
		50	0	21.90	0.155	20.87	0.122	20.95	0.124

LTE Band 7									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20775 (2 502.5 ㎒)		21100 (2 535.0 ㎒)		21425 (2 567.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.22	0.167	**22.48**	**0.177**	22.40	0.174
		1	12	22.16	0.164	22.43	0.175	22.34	0.171
		1	24	22.10	0.162	22.46	0.176	22.24	0.167
		3	0	21.30	0.135	21.55	0.143	21.32	0.136
		3	6	21.29	0.135	21.53	0.142	21.34	0.136
		3	13	21.25	0.133	21.47	0.140	21.28	0.134
		6	0	21.26	0.134	21.48	0.141	21.28	0.134
	16QAM	1	0	21.65	0.146	21.92	0.156	21.64	0.146
		1	12	21.57	0.144	21.81	0.152	21.60	0.145
		1	24	21.54	0.143	21.81	0.152	21.58	0.144
		3	0	20.33	0.108	20.58	0.114	20.39	0.109
		3	6	20.36	0.109	20.57	0.114	20.38	0.109
		3	13	20.28	0.107	20.53	0.113	20.34	0.108
		6	0	20.32	0.108	20.53	0.113	20.33	0.108

LTE Band 7									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20800 (2 505.0 ㎒)		21100 (2 535.0 ㎒)		21400 (2 565.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	22.24	0.167	**22.60**	**0.182**	22.59	0.182
		1	25	22.12	0.163	22.52	0.179	22.35	0.172
		1	49	22.06	0.161	22.44	0.175	22.18	0.165
		25	0	21.31	0.135	21.58	0.144	21.52	0.142
		25	12	21.27	0.134	21.57	0.144	21.36	0.137
		25	25	21.17	0.131	21.45	0.140	21.26	0.134
		50	0	21.26	0.134	21.53	0.142	21.33	0.136
	16QAM	1	0	21.71	0.148	22.02	0.159	21.90	0.155
		1	25	21.60	0.145	21.82	0.152	21.60	0.145
		1	49	21.43	0.139	21.77	0.150	21.44	0.139
		25	0	20.32	0.108	20.58	0.114	20.53	0.113
		25	12	20.29	0.107	20.57	0.114	20.36	0.109
		25	25	20.20	0.105	20.51	0.112	20.31	0.107
		50	0	20.27	0.106	20.52	0.113	20.38	0.109

LTE Band 7									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20825 (2 507.5 ㎒)		21100 (2 535.0 ㎒)		21375 (2 562.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	22.44	0.175	22.66	0.185	**22.69**	**0.186**
		1	36	22.23	0.167	22.53	0.179	22.47	0.177
		1	74	22.22	0.167	22.40	0.174	22.22	0.167
		36	0	21.33	0.136	21.59	0.144	21.57	0.144
		36	18	21.25	0.133	21.59	0.144	21.51	0.142
		36	37	21.15	0.130	21.49	0.141	21.29	0.135
		75	0	21.24	0.133	21.51	0.142	21.51	0.142
	16QAM	1	0	21.75	0.150	21.89	0.155	22.08	0.161
		1	36	21.49	0.141	21.89	0.155	21.77	0.150
		1	74	21.67	0.147	21.79	0.151	21.49	0.141
		36	0	20.51	0.112	20.64	0.116	20.60	0.115
		36	18	20.41	0.110	20.56	0.114	20.55	0.114
		36	37	20.30	0.107	20.47	0.111	20.29	0.107
		75	0	20.35	0.108	20.56	0.114	20.52	0.113

LTE Band 7									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20850 (2 510.0 ㎒)		21100 (2 535.0 ㎒)		21350 (2 560.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	22.73	0.187	22.72	0.187	**22.75**	**0.188**
		1	50	22.15	0.164	22.54	0.179	22.50	0.178
		1	99	22.29	0.169	22.49	0.177	22.26	0.168
		50	0	21.71	0.148	21.70	0.148	21.73	0.149
		50	25	21.33	0.136	21.54	0.143	21.54	0.143
		50	50	21.32	0.136	21.46	0.140	21.32	0.136
		100	0	21.47	0.140	21.56	0.143	21.43	0.139
	16QAM	1	0	21.89	0.155	21.94	0.156	22.10	0.162
		1	50	21.79	0.151	21.84	0.153	21.80	0.151
		1	99	21.66	0.147	21.74	0.149	21.57	0.144
		50	0	20.48	0.112	20.68	0.117	20.68	0.117
		50	25	20.39	0.109	20.61	0.115	20.55	0.114
		50	50	20.34	0.108	20.48	0.112	20.33	0.108
		100	0	20.47	0.111	20.58	0.114	20.44	0.111

LTE Band 12									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23017 (699.7 ㎒)		23095 (707.5 ㎒)		23173 (715.3 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.82	0.191	22.91	0.195	22.83	0.192
		1	3	**23.00**	**0.200**	22.96	0.198	22.83	0.192
		1	5	22.92	0.196	22.87	0.194	22.62	0.183
		3	0	22.88	0.194	22.93	0.196	22.78	0.190
		3	2	22.99	0.199	22.93	0.196	22.75	0.188
		3	3	22.91	0.195	22.88	0.194	22.69	0.186
		6	0	21.95	0.157	21.89	0.155	21.76	0.150
	16QAM	1	0	22.08	0.161	22.17	0.165	22.15	0.164
		1	3	22.30	0.170	22.23	0.167	22.10	0.162
		1	5	22.19	0.166	22.12	0.163	21.99	0.158
		3	0	21.96	0.157	22.03	0.160	21.90	0.155
		3	2	22.10	0.162	22.03	0.160	21.85	0.153
		3	3	22.13	0.163	21.97	0.157	21.79	0.151
		6	0	21.08	0.128	20.95	0.124	20.89	0.123

LTE Band 12									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23025 (700.5 ㎒)		23095 (707.5 ㎒)		23165 (714.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	22.88	0.194	22.92	0.196	22.91	0.195
		1	7	**23.24**	**0.211**	23.02	0.200	23.12	0.205
		1	14	22.96	0.198	22.91	0.195	22.95	0.197
		8	0	22.09	0.162	22.00	0.158	22.05	0.160
		8	4	22.15	0.164	22.00	0.158	22.13	0.163
		8	7	22.02	0.159	21.97	0.157	21.98	0.158
		15	0	22.03	0.160	21.98	0.158	22.01	0.159
	16QAM	1	0	22.30	0.170	22.22	0.167	22.26	0.168
		1	7	22.49	0.177	22.30	0.170	22.42	0.175
		1	14	22.24	0.167	22.24	0.167	22.22	0.167
		8	0	21.19	0.132	21.09	0.129	21.16	0.131
		8	4	21.21	0.132	21.08	0.128	21.19	0.132
		8	7	21.05	0.127	21.00	0.126	21.03	0.127
		15	0	21.05	0.127	21.05	0.127	21.04	0.127

LTE Band 12/17									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23035 (701.5 ㎒)		23095 (707.5 ㎒)		23155 (713.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.83	0.192	22.91	0.195	22.89	0.195
		1	12	**23.21**	**0.209**	23.03	0.201	23.13	0.206
		1	24	22.95	0.197	22.92	0.196	22.94	0.197
		12	0	22.10	0.162	21.98	0.158	22.04	0.160
		12	6	22.13	0.163	22.06	0.161	22.12	0.163
		12	13	22.00	0.158	21.96	0.157	21.97	0.157
		25	0	22.04	0.160	21.98	0.158	22.00	0.158
	16QAM	1	0	22.29	0.169	22.24	0.167	22.22	0.167
		1	12	22.48	0.177	22.25	0.168	22.39	0.173
		1	24	22.31	0.170	22.21	0.166	22.18	0.165
		12	0	21.21	0.132	21.05	0.127	21.11	0.129
		12	6	21.18	0.131	21.07	0.128	21.17	0.131
		12	13	21.06	0.128	20.98	0.125	21.02	0.126
		25	0	21.02	0.126	21.05	0.127	21.01	0.126

LTE Band 12/17									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23060 (704.0 ㎒)		23095 (707.5 ㎒)		23130 (711.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	23.01	0.200	22.92	0.196	22.88	0.194
		1	25	**23.19**	**0.208**	23.04	0.201	23.11	0.205
		1	49	22.96	0.198	22.93	0.196	22.96	0.198
		25	0	22.08	0.161	21.95	0.157	22.03	0.160
		25	12	22.11	0.163	22.05	0.160	22.13	0.163
		25	25	22.04	0.160	21.94	0.156	21.95	0.157
		50	0	22.03	0.160	21.95	0.157	22.04	0.160
	16QAM	1	0	22.28	0.169	22.26	0.168	22.21	0.166
		1	25	22.47	0.177	22.24	0.167	22.35	0.172
		1	49	22.29	0.169	22.25	0.168	22.15	0.164
		25	0	21.22	0.132	21.01	0.126	21.13	0.130
		25	12	21.14	0.130	22.05	0.160	21.14	0.130
		25	25	21.05	0.127	20.95	0.124	21.05	0.127
		50	0	21.03	0.127	21.04	0.127	21.03	0.127

LTE Band 13									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23205 (779.5 ㎒)		23230 (782.0 ㎒)		23255 (784.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	23.32	0.215	23.27	0.212	**23.33**	**0.215**
		1	12	23.31	0.214	23.29	0.213	23.30	0.214
		1	24	23.17	0.207	23.27	0.212	23.31	0.214
		12	0	22.31	0.170	22.25	0.168	22.50	0.178
		12	6	22.36	0.172	22.21	0.166	22.31	0.170
		12	13	22.25	0.168	22.23	0.167	22.21	0.166
		25	0	22.37	0.173	22.24	0.167	22.35	0.172
	16QAM	1	0	22.56	0.180	22.59	0.182	22.85	0.193
		1	12	22.58	0.181	22.59	0.182	22.51	0.178
		1	24	22.44	0.175	22.60	0.182	22.55	0.180
		12	0	21.34	0.136	21.27	0.134	21.32	0.136
		12	6	21.35	0.136	21.23	0.133	21.30	0.135
		12	13	21.27	0.134	21.27	0.134	21.33	0.136
		25	0	21.33	0.136	21.28	0.134	21.21	0.132

LTE Band 13									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
						23230 (782.0 ㎒)			
						(dB m)	(W)		
10	QPSK	1	0	-	-	**23.42**	**0.220**	-	-
		1	25	-	-	23.23	0.210	-	-
		1	49	-	-	23.20	0.209	-	-
		25	0	-	-	22.44	0.175	-	-
		25	12	-	-	22.24	0.167	-	-
		25	25	-	-	22.18	0.165	-	-
		50	0	-	-	22.26	0.168	-	-
	16QAM	1	0	-	-	22.59	0.182	-	-
		1	25	-	-	22.48	0.177	-	-
		1	49	-	-	22.48	0.177	-	-
		25	0	-	-	21.35	0.136	-	-
		25	12	-	-	21.31	0.135	-	-
		25	25	-	-	21.21	0.132	-	-
		50	0	-	-	21.23	0.133	-	-

LTE Band 25/2									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26047 (1 850.7 ㎒)		26365 (1 882.5 ㎒)		26683 (1 914.3 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.56	0.180	**23.06**	0.198	22.79	0.190
		1	3	22.71	0.187	22.85	0.193	22.84	0.192
		1	5	22.58	0.181	23.00	0.202	22.82	0.191
		3	0	22.66	0.185	22.98	0.199	22.86	0.193
		3	2	22.71	0.187	22.97	0.202	22.93	0.196
		3	3	22.67	0.185	22.97	0.198	22.91	0.195
		6	0	21.70	0.148	23.02	0.200	22.80	0.191
	16QAM	1	0	21.85	0.153	22.20	0.166	22.09	0.162
		1	3	21.96	0.157	22.22	0.167	22.11	0.163
		1	5	21.98	0.158	22.28	0.169	22.14	0.164
		3	0	21.74	0.149	22.22	0.167	22.10	0.162
		3	2	21.80	0.151	22.20	0.166	22.18	0.165
		3	3	21.81	0.152	22.40	0.174	22.09	0.162
		6	0	20.70	0.117	22.16	0.164	22.00	0.158

LTE Band 25/2									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26055 (1 851.5 ㎒)		26365 (1 882.5 ㎒)		26675 (1 913.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	22.87	0.194	22.81	0.191	22.82	0.191
		1	7	22.89	0.195	22.89	0.195	**22.98**	0.199
		1	14	22.76	0.189	22.78	0.190	22.96	0.198
		8	0	22.73	0.187	21.81	0.152	21.90	0.155
		8	4	22.75	0.188	21.80	0.151	21.77	0.150
		8	7	22.80	0.191	21.80	0.151	21.78	0.151
		15	0	21.70	0.148	21.79	0.151	21.78	0.151
	16QAM	1	0	21.90	0.155	22.03	0.160	22.10	0.162
		1	7	22.06	0.161	22.15	0.164	22.10	0.162
		1	14	22.00	0.158	22.09	0.162	22.13	0.163
		8	0	21.90	0.155	20.86	0.122	20.86	0.122
		8	4	21.92	0.156	20.89	0.123	20.84	0.121
		8	7	21.92	0.156	20.86	0.122	20.82	0.121
		15	0	20.80	0.120	20.84	0.121	20.84	0.121

LTE Band 25/2									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26065 (1 852.5 ㎒)		26365 (1 882.5 ㎒)		26665 (1 912.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.78	0.190	22.87	0.194	**22.98**	0.199
		1	12	22.93	0.196	22.88	0.194	22.93	0.196
		1	24	22.88	0.194	22.90	0.195	22.86	0.193
		12	0	22.75	0.188	22.79	0.190	21.83	0.152
		12	6	22.74	0.188	22.85	0.193	21.85	0.153
		12	13	22.70	0.186	22.83	0.192	21.83	0.152
		25	0	22.73	0.187	21.81	0.152	21.84	0.153
	16QAM	1	0	22.04	0.160	22.05	0.160	22.20	0.166
		1	12	22.03	0.160	22.07	0.161	22.05	0.160
		1	24	22.04	0.160	22.09	0.162	22.13	0.163
		12	0	21.79	0.151	21.87	0.154	20.86	0.122
		12	6	21.85	0.153	21.92	0.156	20.88	0.122
		12	13	21.90	0.155	21.91	0.155	20.88	0.122
		25	0	21.84	0.153	20.86	0.122	20.85	0.122

LTE Band 25/2									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26090 (1 855.0 ㎒)		26365 (1 882.5 ㎒)		26640 (1 910.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	22.76	0.189	22.79	0.190	22.82	0.191
		1	25	22.68	0.185	22.83	0.192	22.74	0.188
		1	49	22.87	0.194	22.89	0.195	**22.90**	0.195
		25	0	22.78	0.190	22.84	0.192	22.82	0.191
		25	12	22.81	0.191	22.86	0.193	22.80	0.191
		25	25	22.78	0.190	22.84	0.192	22.88	0.194
		50	0	22.81	0.191	21.84	0.153	21.77	0.150
	16QAM	1	0	22.07	0.161	22.05	0.160	22.04	0.160
		1	25	21.95	0.157	21.99	0.158	22.02	0.159
		1	49	22.26	0.168	22.03	0.160	22.08	0.161
		25	0	21.87	0.154	21.89	0.155	21.84	0.153
		25	12	21.90	0.155	21.94	0.156	21.88	0.154
		25	25	21.90	0.155	21.91	0.155	21.94	0.156
		50	0	21.84	0.153	20.91	0.123	20.79	0.120

LTE Band 25/2									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26115 (1 857.5 ㎒)		26365 (1 882.5 ㎒)		26615 (1 907.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	22.93	0.196	22.89	0.195	**23.10**	**0.204**
		1	36	22.87	0.194	22.97	0.198	23.04	0.201
		1	74	22.82	0.191	22.93	0.196	23.06	0.202
		36	0	22.89	0.195	22.92	0.196	23.08	0.203
		36	18	22.83	0.192	22.89	0.195	23.05	0.202
		36	37	22.81	0.191	22.89	0.195	22.97	0.198
		75	0	22.85	0.193	22.86	0.193	22.06	0.161
	16QAM	1	0	21.98	0.158	22.17	0.165	22.36	0.172
		1	36	22.10	0.162	22.28	0.169	22.28	0.169
		1	74	22.07	0.161	22.15	0.164	22.26	0.168
		36	0	21.96	0.157	22.00	0.158	22.14	0.164
		36	18	21.98	0.158	21.99	0.158	22.12	0.163
		36	37	21.90	0.155	21.95	0.157	22.02	0.159
		75	0	22.00	0.158	21.93	0.156	21.05	0.127

LTE Band 25/2									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26140 (1 860.0 ㎒)		26365 (1 882.5 ㎒)		26590 (1 905.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	22.92	0.196	22.87	0.194	**23.15**	**0.207**
		1	50	22.97	0.198	22.89	0.195	23.11	0.205
		1	99	22.84	0.192	22.90	0.195	23.07	0.203
		50	0	22.86	0.193	22.88	0.194	22.98	0.199
		50	25	22.88	0.194	22.91	0.195	22.90	0.195
		50	50	22.81	0.191	22.89	0.195	22.87	0.194
		100	0	22.81	0.191	22.93	0.196	22.10	0.162
	16QAM	1	0	22.12	0.163	22.15	0.164	22.42	0.175
		1	50	22.15	0.164	22.21	0.166	22.45	0.176
		1	99	22.11	0.163	22.20	0.166	22.42	0.175
		50	0	21.95	0.157	21.94	0.156	22.21	0.166
		50	25	21.96	0.157	22.01	0.159	22.15	0.164
		50	50	21.96	0.157	22.03	0.160	22.14	0.164
		100	0	21.92	0.156	21.95	0.157	21.12	0.129

LTE Band 41_FCC									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39675 (2 498.5 ㎒)		40620 (2 593.0 ㎒)		41565 (2 687.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.64	0.184	**22.78**	**0.190**	22.74	0.188
		1	12	22.69	0.186	22.70	0.186	22.68	0.185
		1	24	22.60	0.182	22.65	0.184	22.67	0.185
		12	0	21.53	0.142	21.77	0.150	21.76	0.150
		12	6	21.58	0.144	21.76	0.150	21.73	0.149
		12	13	21.51	0.142	21.73	0.149	21.67	0.147
		25	0	21.56	0.143	21.78	0.151	21.71	0.148
	16QAM	1	0	21.52	0.142	21.80	0.151	21.81	0.152
		1	12	21.57	0.144	21.74	0.149	21.82	0.152
		1	24	21.47	0.140	21.64	0.146	21.70	0.148
		12	0	20.52	0.113	20.78	0.120	20.77	0.119
		12	6	20.63	0.116	20.80	0.120	20.73	0.118
		12	13	20.54	0.113	20.74	0.119	20.65	0.116
		25	0	20.53	0.113	20.75	0.119	20.73	0.118

LTE Band 41_FCC									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39700 (2 501.0 ㎒)		40620 (2 593.0 ㎒)		41540 (2 685.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	22.62	0.183	22.77	0.189	**22.78**	**0.190**
		1	25	22.56	0.180	22.74	0.188	22.69	0.186
		1	49	22.41	0.174	22.72	0.187	22.71	0.187
		25	0	21.57	0.144	21.81	0.152	21.96	0.157
		25	12	21.62	0.145	21.75	0.150	21.78	0.151
		25	25	21.53	0.142	21.67	0.147	21.84	0.153
		50	0	21.49	0.141	21.76	0.150	21.89	0.155
	16QAM	1	0	21.55	0.143	21.84	0.153	22.27	0.169
		1	25	21.54	0.143	21.74	0.149	21.70	0.148
		1	49	21.46	0.140	21.81	0.152	22.19	0.166
		25	0	20.56	0.114	20.82	0.121	20.93	0.124
		25	12	20.56	0.114	20.77	0.119	20.79	0.120
		25	25	20.51	0.112	20.70	0.117	20.82	0.121
		50	0	20.50	0.112	20.78	0.120	20.92	0.124

LTE Band 41_FCC									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39725 (2 503.5 ㎒)		40620 (2 593.0 ㎒)		41515 (2 682.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	22.71	0.187	22.79	0.190	**22.81**	**0.191**
		1	36	22.59	0.182	22.68	0.185	22.68	0.185
		1	74	22.55	0.180	22.66	0.185	22.52	0.179
		36	0	21.65	0.146	21.75	0.150	21.79	0.151
		36	18	21.71	0.148	21.74	0.149	21.76	0.150
		36	37	21.61	0.145	21.74	0.149	21.68	0.147
		75	0	21.60	0.145	21.71	0.148	21.73	0.149
	16QAM	1	0	21.74	0.149	21.89	0.155	21.81	0.152
		1	36	21.62	0.145	21.77	0.150	21.75	0.150
		1	74	21.65	0.146	21.67	0.147	21.52	0.142
		36	0	20.67	0.117	20.72	0.118	20.76	0.119
		36	18	20.68	0.117	20.77	0.119	20.77	0.119
		36	37	20.61	0.115	20.73	0.118	20.68	0.117
		75	0	20.58	0.114	20.74	0.119	20.78	0.120

LTE Band 41_FCC									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39750 (2 506.0 ㎒)		40620 (2 593.0 ㎒)		41490 (2 680.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	22.79	0.190	22.90	0.195	**22.92**	**0.196**
		1	50	22.62	0.183	22.65	0.184	22.64	0.184
		1	99	22.49	0.177	22.56	0.180	22.91	0.195
		50	0	21.72	0.149	21.78	0.151	21.86	0.153
		50	25	21.60	0.145	21.77	0.150	21.76	0.150
		50	13	21.66	0.147	21.75	0.150	21.71	0.148
		100	0	21.72	0.149	21.75	0.150	21.87	0.154
	16QAM	1	0	21.88	0.154	22.01	0.159	22.01	0.159
		1	50	21.58	0.144	21.70	0.148	21.70	0.148
		1	99	21.52	0.142	21.63	0.146	21.65	0.146
		50	0	20.71	0.118	20.80	0.120	20.87	0.122
		50	25	20.60	0.115	20.78	0.120	20.76	0.119
		50	50	20.66	0.116	20.71	0.118	20.73	0.118
		100	0	20.72	0.118	20.75	0.119	20.82	0.121

LTE Band 41_IC									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39715 (2 502.5 ㎒)		40640 (2 595.0 ㎒)		41565 (2 687.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.64	0.184	**22.77**	**0.189**	22.65	0.184
		1	12	22.69	0.186	22.73	0.187	22.59	0.182
		1	24	22.60	0.182	22.64	0.184	22.55	0.180
		12	0	21.53	0.142	21.69	0.148	21.62	0.145
		12	6	21.58	0.144	21.71	0.148	21.63	0.146
		12	13	21.51	0.142	21.72	0.149	21.58	0.144
		25	0	21.56	0.143	21.75	0.150	21.65	0.146
	16QAM	1	0	21.52	0.142	21.78	0.151	21.70	0.148
		1	12	21.57	0.144	21.72	0.149	21.62	0.145
		1	24	21.47	0.140	21.58	0.144	21.51	0.142
		12	0	20.52	0.113	20.74	0.119	20.63	0.116
		12	6	20.63	0.116	20.80	0.120	20.68	0.117
		12	13	20.54	0.113	20.75	0.119	20.58	0.114
		25	0	20.53	0.113	20.72	0.118	20.64	0.116

LTE Band 41_IC									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39740 (2 505.0 ㎒)		40640 (2 595.0 ㎒)		41540 (2 685.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	**22.82**	**0.191**	22.75	0.188	22.75	0.188
		1	25	22.70	0.186	22.72	0.187	22.61	0.182
		1	49	22.60	0.182	22.71	0.187	22.45	0.176
		25	0	21.83	0.152	21.79	0.151	21.65	0.146
		25	12	21.74	0.149	21.72	0.149	21.63	0.146
		25	25	21.70	0.148	21.65	0.146	21.55	0.143
		50	0	21.77	0.150	21.79	0.151	21.63	0.146
	16QAM	1	0	21.85	0.153	21.84	0.153	21.81	0.152
		1	25	21.70	0.148	21.82	0.152	21.62	0.145
		1	49	21.65	0.146	21.80	0.151	21.53	0.142
		25	0	20.81	0.121	20.80	0.120	20.72	0.118
		25	12	20.78	0.120	20.75	0.119	20.67	0.117
		25	25	20.70	0.117	20.68	0.117	20.56	0.114
		50	0	20.75	0.119	20.72	0.118	20.65	0.116

LTE Band 41_IC									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39765 (2 507.5 ㎒)		40640 (2 595.0 ㎒)		41515 (2 682.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	**22.84**	**0.192**	22.80	0.191	22.75	0.188
		1	36	22.63	0.183	22.65	0.184	22.54	0.179
		1	74	22.57	0.181	22.66	0.185	22.53	0.179
		36	0	21.79	0.151	21.72	0.149	21.68	0.147
		36	18	21.71	0.148	21.68	0.147	21.66	0.147
		36	37	21.69	0.148	21.68	0.147	21.59	0.144
		75	0	21.73	0.149	21.70	0.148	21.59	0.144
	16QAM	1	0	21.92	0.156	21.90	0.155	21.87	0.154
		1	36	21.77	0.150	21.79	0.151	21.58	0.144
		1	74	21.60	0.145	21.70	0.148	21.56	0.143
		36	0	20.82	0.121	20.68	0.117	20.74	0.119
		36	18	20.76	0.119	20.72	0.118	20.68	0.117
		36	37	20.67	0.117	20.72	0.118	20.56	0.114
		75	0	20.75	0.119	20.71	0.118	20.61	0.115

LTE Band 41_IC									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39790 (2 510.0 ㎒)		40640 (2 595.0 ㎒)		41490 (2 680.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	22.90	0.195	**22.91**	**0.195**	22.86	0.193
		1	50	22.58	0.181	22.68	0.185	22.54	0.179
		1	99	22.53	0.179	22.61	0.182	22.42	0.175
		50	0	21.84	0.153	21.72	0.149	21.73	0.149
		50	25	21.75	0.150	21.77	0.150	21.61	0.145
		50	50	21.66	0.147	21.72	0.149	21.50	0.141
		100	0	21.75	0.150	21.69	0.148	21.63	0.146
	16QAM	1	0	22.04	0.160	21.98	0.158	21.95	0.157
		1	50	21.70	0.148	21.68	0.147	21.62	0.145
		1	99	21.54	0.143	21.65	0.146	21.50	0.141
		50	0	20.84	0.121	20.86	0.122	20.78	0.120
		50	25	20.76	0.119	20.75	0.119	20.65	0.116
		50	50	20.65	0.116	20.68	0.117	20.49	0.112
		100	0	20.74	0.119	20.77	0.119	20.66	0.116

LTE Band 66/4									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				131979 (1 710.7 ㎒)		132322 (1 745.0 ㎒)		132665 (1 779.3 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.49	0.177	22.15	0.164	22.17	0.165
		1	3	**22.51**	**0.178**	22.19	0.166	22.21	0.166
		1	5	22.47	0.177	22.20	0.166	22.18	0.165
		3	0	22.46	0.176	22.16	0.164	22.20	0.166
		3	2	22.51	0.178	22.24	0.167	22.19	0.166
		3	3	22.50	0.178	22.27	0.169	22.17	0.165
		6	0	21.50	0.141	22.16	0.164	22.16	0.164
	16QAM	1	0	21.81	0.152	21.47	0.140	21.52	0.142
		1	3	21.81	0.152	21.41	0.138	21.52	0.142
		1	5	21.77	0.150	21.43	0.139	21.55	0.143
		3	0	21.57	0.144	21.47	0.140	21.53	0.142
		3	2	21.65	0.146	21.61	0.145	21.52	0.142
		3	3	21.57	0.144	21.57	0.144	21.50	0.141
		6	0	20.56	0.114	21.43	0.139	21.54	0.143

LTE Band 66/4									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				131987 (1 711.5 ㎒)		132322 (1 745.0 ㎒)		132657 (1 778.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	22.66	0.185	22.26	0.168	22.36	0.172
		1	7	**22.77**	**0.189**	22.30	0.170	22.42	0.175
		1	14	22.73	0.187	22.24	0.167	22.45	0.176
		8	0	22.65	0.184	21.27	0.134	21.33	0.136
		8	4	22.67	0.185	21.28	0.134	21.34	0.136
		8	7	22.70	0.186	21.25	0.133	21.34	0.136
		15	0	21.66	0.147	21.24	0.133	21.34	0.136
	16QAM	1	0	21.84	0.153	21.46	0.140	21.66	0.147
		1	7	21.99	0.158	21.66	0.147	21.76	0.150
		1	14	21.98	0.158	21.47	0.140	21.76	0.150
		8	0	21.75	0.150	20.35	0.108	20.38	0.109
		8	4	21.78	0.151	20.33	0.108	20.39	0.109
		8	7	21.74	0.149	20.34	0.108	20.40	0.110
		15	0	20.71	0.118	20.32	0.108	20.39	0.109

LTE Band 66/4									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				131997 (1 712.5 ㎒)		132322 (1 745.0 ㎒)		132647 (1 777.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.68	0.185	22.30	0.170	22.61	0.182
		1	12	22.71	0.187	22.29	0.169	22.34	0.171
		1	24	**22.73**	**0.187**	22.32	0.171	22.40	0.174
		12	0	22.67	0.185	22.27	0.169	21.48	0.141
		12	6	22.65	0.184	22.27	0.169	21.40	0.138
		12	13	22.63	0.183	22.26	0.168	21.37	0.137
		25	0	22.65	0.184	21.25	0.133	21.38	0.137
	16QAM	1	0	21.97	0.157	21.55	0.143	21.77	0.150
		1	12	22.02	0.159	21.59	0.144	21.67	0.147
		1	24	21.97	0.157	21.57	0.144	21.64	0.146
		12	0	21.78	0.151	21.32	0.136	20.54	0.113
		12	6	21.78	0.151	21.34	0.136	20.44	0.111
		12	13	21.78	0.151	21.34	0.136	20.44	0.111
		25	0	21.75	0.150	20.30	0.107	20.44	0.111

LTE Band 66/4									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				132022 (1 715.0 ㎒)		132322 (1 745.0 ㎒)		132622 (1 775.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	**22.75**	**0.188**	22.31	0.170	22.56	0.180
		1	25	22.68	0.185	22.27	0.169	22.61	0.182
		1	49	22.73	0.187	22.32	0.171	22.52	0.179
		25	0	22.67	0.185	22.29	0.169	22.58	0.181
		25	12	22.70	0.186	22.44	0.175	22.57	0.181
		25	25	22.72	0.187	22.29	0.169	22.51	0.178
		50	0	22.68	0.185	21.29	0.135	21.53	0.142
	16QAM	1	0	21.92	0.156	21.51	0.142	21.84	0.153
		1	25	21.95	0.157	21.51	0.142	21.79	0.151
		1	49	22.06	0.161	21.54	0.143	21.70	0.148
		25	0	21.82	0.152	21.34	0.136	21.66	0.147
		25	12	21.78	0.151	21.42	0.139	21.66	0.147
		25	25	21.81	0.152	21.33	0.136	21.58	0.144
		50	0	21.78	0.151	20.33	0.108	20.56	0.114

LTE Band 66/4									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				132047 (1 717.5 ㎒)		132322 (1 745.0 ㎒)		132597 (1 772.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	**22.78**	**0.190**	22.38	0.173	22.54	0.179
		1	36	22.78	0.190	22.54	0.179	22.54	0.179
		1	74	22.75	0.188	22.45	0.176	22.65	0.184
		36	0	22.78	0.190	22.47	0.177	22.55	0.180
		36	18	22.73	0.187	22.44	0.175	22.63	0.183
		36	37	22.73	0.187	22.43	0.175	22.60	0.182
		75	0	22.73	0.187	22.42	0.175	21.60	0.145
	16QAM	1	0	22.08	0.161	21.70	0.148	21.81	0.152
		1	36	22.10	0.162	21.87	0.154	21.92	0.156
		1	74	21.98	0.158	21.80	0.151	21.88	0.154
		36	0	21.89	0.155	21.54	0.143	21.56	0.143
		36	18	21.82	0.152	21.52	0.142	21.63	0.146
		36	37	21.81	0.152	21.53	0.142	21.66	0.147
		75	0	21.82	0.152	21.51	0.142	20.62	0.115

LTE Band 66/4									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				132072 (1 720.0 ㎒)		132322 (1 745.0 ㎒)		132572 (1 770.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	**22.87**	**0.194**	22.39	0.173	22.74	0.188
		1	50	22.76	0.189	22.72	0.187	22.74	0.188
		1	99	22.74	0.188	22.28	0.169	22.47	0.177
		50	0	22.82	0.191	22.33	0.171	22.57	0.181
		50	25	22.81	0.191	22.36	0.172	22.54	0.179
		50	50	22.75	0.188	22.37	0.173	22.51	0.178
		100	0	22.76	0.189	22.33	0.171	21.52	0.142
	16QAM	1	0	22.02	0.159	21.56	0.143	21.80	0.151
		1	50	22.11	0.163	21.68	0.147	21.87	0.154
		1	99	21.99	0.158	21.58	0.144	21.86	0.153
		50	0	21.87	0.154	21.41	0.138	21.58	0.144
		50	25	21.85	0.153	21.45	0.140	21.57	0.144
		50	50	21.88	0.154	21.46	0.140	21.61	0.145
		100	0	21.84	0.153	21.37	0.137	20.55	0.114

LTE Band 71									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				133147 (665.5 ㎒)		133297 (680.5 ㎒)		133447 (695.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	23.34	0.216	23.47	0.222	23.55	0.226
		1	12	23.31	0.214	23.57	0.228	**23.60**	**0.229**
		1	24	23.42	0.220	23.49	0.223	23.58	0.228
		12	0	22.31	0.170	22.45	0.176	23.59	0.229
		12	6	22.44	0.175	22.43	0.175	23.47	0.222
		12	13	22.36	0.172	22.44	0.175	23.43	0.220
		25	0	22.46	0.176	22.43	0.175	23.57	0.228
	16QAM	1	0	22.65	0.184	22.82	0.191	22.86	0.193
		1	12	22.67	0.185	22.81	0.191	22.87	0.194
		1	24	22.79	0.190	22.82	0.191	22.80	0.191
		12	0	21.44	0.139	21.49	0.141	22.87	0.194
		12	6	21.51	0.142	21.50	0.141	22.78	0.190
		12	13	21.45	0.140	21.48	0.141	22.85	0.193
		25	0	21.44	0.139	21.47	0.140	22.88	0.194

LTE Band 71									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				133172 (668.0 ㎒)		133297 (680.5 ㎒)		133422 (693.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	23.51	0.224	23.61	0.230	**23.67**	**0.233**
		1	25	23.46	0.222	23.53	0.225	23.51	0.224
		1	49	23.53	0.225	23.45	0.221	23.50	0.224
		25	0	23.51	0.224	22.54	0.179	22.53	0.179
		25	12	23.50	0.224	22.52	0.179	22.54	0.179
		25	25	23.58	0.228	22.45	0.176	22.53	0.179
		50	0	22.49	0.177	22.48	0.177	22.53	0.179
	16QAM	1	0	22.75	0.188	22.86	0.193	22.93	0.196
		1	25	22.73	0.187	22.76	0.189	22.75	0.188
		1	49	22.78	0.190	22.75	0.188	22.81	0.191
		25	0	22.55	0.180	21.57	0.144	21.57	0.144
		25	12	22.56	0.180	21.55	0.143	21.56	0.143
		25	25	22.61	0.182	21.46	0.140	21.55	0.143
		50	0	21.55	0.143	21.49	0.141	21.55	0.143

LTE Band 71									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				133197 (670.5 ㎒)		133297 (680.5 ㎒)		133397 (690.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	**23.73**	**0.236**	23.59	0.229	23.69	0.234
		1	36	23.53	0.225	23.64	0.231	23.37	0.217
		1	74	23.52	0.225	23.52	0.225	23.35	0.216
		36	0	22.48	0.177	22.54	0.179	22.54	0.179
		36	18	23.55	0.226	22.57	0.181	22.43	0.175
		36	37	23.65	0.232	22.48	0.177	22.44	0.175
		75	0	22.55	0.180	22.58	0.181	22.44	0.175
	16QAM	1	0	22.87	0.194	22.96	0.198	23.01	0.200
		1	36	22.84	0.192	22.94	0.197	22.67	0.185
		1	74	22.97	0.198	22.82	0.191	22.65	0.184
		36	0	22.63	0.183	21.55	0.143	21.56	0.143
		36	18	22.60	0.182	21.60	0.145	21.47	0.140
		36	37	22.68	0.185	21.53	0.142	21.50	0.141
		75	0	21.59	0.144	21.60	0.145	21.49	0.141

LTE Band 71									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				133222 (673.0 ㎒)		133297 (680.5 ㎒)		133372 (688.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	23.54	0.226	**23.68**	**0.233**	23.68	0.233
		1	50	23.63	0.231	23.65	0.232	23.47	0.222
		1	99	23.64	0.231	23.45	0.221	23.44	0.221
		50	0	22.59	0.182	22.56	0.180	22.58	0.181
		50	25	22.55	0.180	22.54	0.179	22.55	0.180
		50	50	22.65	0.184	22.59	0.182	22.48	0.177
		100	0	22.60	0.182	22.62	0.183	22.55	0.180
	16QAM	1	0	22.86	0.193	22.95	0.197	22.89	0.195
		1	50	22.92	0.196	22.94	0.197	22.74	0.188
		1	99	22.91	0.195	22.78	0.190	22.79	0.190
		50	0	22.68	0.185	21.62	0.145	21.66	0.147
		50	25	22.65	0.184	21.61	0.145	21.60	0.145
		50	50	22.76	0.189	21.61	0.145	21.47	0.140
		100	0	21.63	0.146	21.68	0.147	21.60	0.145