SGS Korea Co., Ltd.
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TEST REPORT

of

FCC Part 2 Subpart J, Part 22 Subpart C/H,
Part 24 Subpart E, Part 27 Subpart C and Part 90 Subpart R/S

FCC ID: YZP-GN1000

Equipment Under Test	:	Telematics Module
Model Name	:	LTD-GN1000
Variant Model Name(s)	:	-
Applicant	:	LG Innotek Co., Ltd.
Manufacturer	:	LG Innotek Co., Ltd.
Date of Receipt	:	2024.01.25
Date of Test(s)	:	2024.02.16 ~ 2023.06.25
Date of Issue	:	2024.06.28

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: Dave 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

All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.

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1.2. Details of Applicant

Applicant : LG Innotek Co., Ltd.
Address : 30 Magokjungang 10-ro, Gangseo-gu, seoul, Republic Of Korea, 07996
Contact Person : Jeong, In-chang
Phone No. : +82 10 2326 9972

1.3. Details of Manufacturer

Company : Same as applicant
Address : Same as applicant
Factory1 : PT. LG INNOTEK INDONESIA
Factory1 Adress : Bekasi International Industrial Estate, Blok C8 No. 12 & 12A, Desa Cibatu, Cikarang Selatan, Bekasi 17750, Jawa Barat - Indonesia
Factory2 : LG Innotek Co., Ltd.
Factory2 Adress : 26, Hanamsandan 5beon-ro, Gwangsan-gu, Gwangju, Republic of Korea, 62229

1.4. Description of EUT

Kind of Product	Telematics Module	
Model Name	LTD-GN1000	
Serial Number	Conducted: C1 Radiated: R1	
Power Supply	DC 4.00 V	
Rated Power	LTE Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 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 14: 788 ㎒ ~ 798 ㎒ LTE Band 17: 704 ㎒ ~ 716 ㎒	LTE Band 25: 1 850 ㎒ ~ 1 915 ㎒ LTE Band 26: 814 ㎒ ~ 849 ㎒ LTE Band 41: 2 496 ㎒ ~ 2 690 ㎒ LTE Band 66: 1 710 ㎒ ~ 1 780 ㎒ LTE Band 71: 663 ㎒ ~ 698 ㎒
Modulation Technique	QPSK, 16QAM, 64QAM, 256QAM	
Antenna Type	Dipole Antenna	
Antenna Gain※	Refer to the clause 1.13	
H/W Version	A.4	
S/W Version	01L_TCM	

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Spectrum Analyzer	R&S	FSV30	100955	Mar. 08, 2024	Annual	Mar. 08, 2025
Spectrum Analyzer	R&S	FSW43	100637	Apr. 08, 2024	Annual	Apr. 08, 2025
Spectrum Analyzer	Agilent	N9020A	MY53421758	Sep. 01, 2023	Annual	Sep. 01, 2024
Signal Generator	R&S	SMA100B	106887	Oct. 06, 2023	Annual	Oct. 06, 2024
DC Power Supply	R&S	HMP2020	102133	Apr. 23, 2024	Annual	Apr. 23, 2025
Communication test station	Anritsu	MT8000A	6261867312	Apr. 08, 2024	Annual	Apr. 08, 2025
Communication Analyzer	Anritsu	MT8821C	6262192291	Feb. 08, 2024	Annual	Feb. 08, 2025
Temperature Chamber	ESPEC CORP.	PL-2J	15004184	Jun. 03, 2024	Annual	Jun. 03, 2025
BRIDGE COUPLER	MARKI MICROWAVE INC	CBR16-0012	1542	May 13, 2024	Annual	May 13, 2025
Directional Coupler	KRYTAR	152613	140972	Jul. 04, 2023	Annual	Jul. 04, 2024
Power Sensor	Anritsu	MA2411B	1207272	May 29, 2024	Annual	May 29, 2025
Power Sensor	Anritsu	ML2495A	1223004	May 29, 2024	Annual	May 29, 2025
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-1	May 17, 2024	Annual	May 17, 2025
High Pass Filter	Wainwright Instrument GmbH	WHKX10-900-1000-18000-40SS	7	Feb. 27, 2024	Annual	Feb. 27, 2025
High Pass Filter	Wainwright Instrument GmbH	WHKX3.0/18G-6SS	21	Jun. 07, 2024	Annual	Jun. 07, 2025
High Pass Filter	Wainwright Instrument GmbH	WHNX7.5/26.5G-6SS	11	Oct. 17, 2023	Annual	Oct. 17, 2024
Preamplifier	H.P.	8447F	2944A03909	Aug. 04, 2023	Annual	Aug. 04, 2024
Preamplifier	R&S	SCU 18F	101058	Dec. 07, 2023	Annual	Dec. 07, 2024
Preamplifier	MITEQ Inc.	JS44-18004000-35-8P	1546891	Oct. 06, 2023	Annual	Oct. 06, 2024
Test Receiver	R&S	ESU26	100109	Jan. 16, 2024	Annual	Jan. 16, 2025
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 21, 2023	Biennial	Aug. 21, 2025
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB9163	9163-437	May 29, 2024	Annual	May 29, 2025
Horn Antenna	R&S	HF906	100326	Feb. 19, 2024	Annual	Feb. 19, 2025
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9170	9170-540	Dec. 05, 2023	Annual	Dec. 05, 2024
Antenna Master	Innco systems GmbH	MA4640-XP-ET	MA4640/536/38330516/L	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	CO3000/963/38330516/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	RADIALL	TESTPRO 3	182287	Apr. 12, 2024	Semi-Annual	Oct. 12, 2024
Coaxial Cable	RADIALL	TESTPRO 3	182288	Apr. 12, 2024	Semi-Annual	Oct. 12, 2024
Coaxial Cable	RADIALL	TESTPRO 3	182291	Apr. 12, 2024	Semi-Annual	Oct. 12, 2024
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-5 m	TPC2402190004	Apr. 03, 2024	Semi-Annual	Oct. 03, 2024
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-10 m	TPC2402190001	Apr. 03, 2024	Semi-Annual	Oct. 03, 2024

Note;

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 2, 22, 24, 27 and 90		
Section in FCC	**Test Item(s)**	**Result**
§22.913(a)(5) §24.232(c) §27.50(b)(9) §27.50(c)(9)(10) §27.50(d)(4) §27.50(h)(2) §90.542(a)(6) §90.635(b)	E.R.P. / E.I.R.P.	Complied
§22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)(1) §27.53(m)(4) §90.543(e)(f) §90.691(a)	Radiated Spurious Emission	Complied
§2.1046	Conducted Output Power	Complied
§2.1049	Occupied Bandwidth	Complied
§22.913(d) §24.232(d) §27.50(d)(5)	Peak-Average Ratio	Complied
§22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)(1) §27.53(m)(4) §90.543(e) §90.691(a)	Spurious Emission at Antenna Terminal	Complied
§22.917(a) §24.238(a) §27.53(c)(2)(4) §27.53(g) §27.53(h)(1) §27.53(m)(4) §90.543(e) §90.691(a)	Band Edge and Emission Mask	Complied
§2.1055 §22.355 §24.235 §27.54 §90.213(a)	Frequency Stability	Complied

1.7. Sample Calculation for Offset

Where relevant, the following sample calculation is provided:

1.7.1. Conducted Test

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

1.7.2. 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 (㏈)

1.8. 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 2 as well as Band 25.

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.

LTE Band 5 (824 ㎒ ~ 849 ㎒) is covered by LTE Band 26 (814 ㎒ ~ 849 ㎒) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth. Therefore test data provided in this report covers LTE Band 5 as well as Band 26.

1.9. Worst Case Configuration and Mode

The worst-case is based on the conducted output power measurement investigation results. All testing was performed using QPSK, 16QAM and 64QAM, 256QAM 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 peak to average ratio were tested only 256QAM modulation as worst case.

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

1.10. Measurement Configuration

Test Items	Band	Test Channel			Bandwidth (㎒)						Modulation				RB #		
		Low	Mid	High	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
Conducted Output Power	7	V	V	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	V	V
	13	V	V	V			V	V			V	V	V	V	V	V	V
	14	V	V	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	V	V
	*26/5 Part22	V	V	V	V	V	V	V	V		V	V	V	V	V	V	V
	26 Part90	V	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	V	V
	66/4	V	V	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	V	V
Frequency Stability	7	-	V	-			V	-	-	-	V	-	-	-	-	-	V
	*12/17	-	V	-	-	-	V	-			V	-	-	-	-	-	V
	13	-	V	-			V	-			V	-	-	-	-	-	V
	14	-	V	-			V	-			V	-	-	-	-	-	V
	25/2	-	V	-	-	-	V	-	-	-	V	-	-	-	-	-	V
	*26/5 Part22	-	V	-	-	-	V	-	-		V	-	-	-	-	-	V
	26 Part90	-	V	-	-	-	V	-	-		V	-	-	-	-	-	V
	41	-	V	-			V	-	-	-	V	-	-	-	-	-	V
	66/4	-	V	-	-	-	V	-	-	-	V	-	-	-	-	-	V
	71	-	V	-			V	-	-	-	V	-	-	-	-	-	V
Occupied Bandwidth	7	-	V	-			V	V	V	V	V	V	-	-	-	-	V
	*12/17	-	V	-	V	V	V	V			V	V	-	-	-	-	V
	13	-	V	-			V	V			V	V	-	-	-	-	V
	14	-	V	-			V	V			V	V	-	-	-	-	V
	25/2	-	V	-	V	V	V	V	V	V	V	V	-	-	-	-	V
	*26/5 Part22	-	V	-	V	V	V	V	V		V	V	-	-	-	-	V
	26 Part90	-	V	-	V	V	V	V	V		V	V	-	-	-	-	V
	41	-	V	-			V	V	V	V	V	V	-	-	-	-	V
	66/4	-	V	-	V	V	V	V	V	V	V	V	-	-	-	-	V
	71	-	V	-			V	V	V	V	V	V	-	-	-	-	V
Peak-to-Average Ratio	7	V	V	V			V	V	V	V	-	-	-	V	-	-	V
	*12/17	V	V	V	V	V	V	V			-	-	-	V	-	-	V
	13	V	V	V			V	V			-	-	-	V	-	-	V
	14	V	V	V			V	V			-	-	-	V	-	-	V
	25/2	V	V	V	V	V	V	V	V	V	-	-	-	V	-	-	V
	*26/5 Part22	V	V	V	V	V	V	V	V		-	-	-	V	-	-	V
	26 Part90	V	V	V	V	V	V	V	V		-	-	-	V	-	-	V
	41	V	V	V			V	V	V	V	-	-	-	V	-	-	V
	66/4	V	V	V	V	V	V	V	V	V	-	-	-	V	-	-	V
	71	V	V	V			V	V	V	V	-	-	-	V	-	-	V

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #		
		Low	Mid	High	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
Band edge	7	V	-	V			V	V	V	V	V	V	-	-	V	-	V
	*12/17	V	-	V	V	V	V	V			V	V	-	-	V	-	V
	13	V	-	V			V	V			V	V	-	-	V	-	V
	14	V	-	V			V	V			V	V	-	-	V	-	V
	25/2	V	-	V	V	V	V	V	V	V	V	V	-	-	V	-	V
	*26/5 Part22	V	-	V	V	V	V	V	V		V	V	-	-	V	-	V
	26 Part90	V	-	V	V	V	V	V	V		V	V	-	-	V	-	V
	41	V	-	V			V	V	V	V	V	V	-	-	V	-	V
	66/4	V	-	V	V	V	V	V	V	V	V	V	-	-	V	-	V
	71	V	-	V			V	V	V	V	V	V	-	-	V	-	V
Spurious at antenna terminal & Radiated Spurious Emission	7	V	V	V	worst case												
	*12/17	V	V	V	worst case												
	13	V	V	V	worst case												
	14	V	V	V	worst case												
	25/2	V	V	V	worst case												
	*26/5 Part22	V	V	V	worst case												
	26 Part90	V	V	V	worst case												
	41	V	V	V	worst case												
	66/4	V	V	V	worst case												
	71	V	V	V	worst case												

*B17 is not supported 1.4M/3M bandwidth
*B5 is not supported 15M bandwidth

1.11. Measurement Uncertainty

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

Parameter	Uncertainty	
Conducted Output Power	0.33 dB	
Occupied Bandwidth	0.05 ㎒	
Conducted Spurious Emissions	0.99 dB	
Peak to Average Ratio	0.66 dB	
Frequency Stability	116 Hz	
Radiated Emission, 9 ㎑ to 30 ㎒	H	3.60 dB
	V	3.60 dB
Radiated Emission, below 1 ㎓	H	4.60 dB
	V	4.90 dB
Radiated Emission, above 1 ㎓	H	3.90 dB
	V	3.80 dB

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

1.12. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL005195	2024.06.28	Initial

1.13. Antenna Designation

Ant. Type	Ant. No	Support Band	
		LTE	NR
Dipole Antenna	Ant.1	2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 41, 66, 71	2, 5, 7, 12, 13, 14, 25, 26, 41, 66, 71
	Ant.2		77, 78

Band	Operating Frequency (㎒)	Antenna Peak Gain (dBi)	
		Ant. 1	Ant. 2
LTE 25/2 NR 25/2	1 850 ~ 1 915	1.90	
LTE 66/4 NR 66	1 710 ~ 1 780	4.20	
LTE 26/5 NR 26/5	824 ~ 849	1.99	
LTE 26 NR 26	814 ~ 824	0.72	
LTE 7 NR 7	2 500 ~ 2 570	4.43	
LTE 12/17 NR 12	699 ~ 716	3.02	
LTE 13 NR 13	777 ~ 787	1.01	
LTE 14 NR 14	788 ~ 798	2.53	
LTE 71 NR 71	663 ~ 698	-0.17	
LTE 41 NR 41	2 496 ~ 2 690	4.43	
NR 77	3 450 ~ 3 550		4.69
	3 700 ~ 3 980		4.90
NR 78	3 450 ~ 3 550		4.69
	3 700 ~ 3 800		4.90

1.14. Emission Designator and Max Power

Band	Band width (㎒)	Modulation	Low Freq. (㎒)	Upper Freq. (㎒)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. / E.I.R.P. Average (dB m)	E.R.P. / E.I.R.P. Average (W)	Emission Designator
7	5	QPSK	2 502.5	2 567.5	22.98	4.43	27.41	0.551	4M50G7D
		16QAM			22.06		26.49	0.446	4M49D7D
	10	QPSK	2 505.0	2 565.0	22.93		27.36	0.545	8M95G7D
		16QAM			22.45		26.88	0.488	8M95D7D
	15	QPSK	2 507.5	2 562.5	22.96		27.39	0.548	13M5G7D
		16QAM			22.25		26.68	0.466	13M5D7D
	20	QPSK	2 510.0	2 560.0	23.02		27.45	0.556	17M9G7D
		16QAM			21.93		26.36	0.433	17M9D7D
12/17	1.4	QPSK	699.7	715.3	22.98	3.02	23.85	0.243	1M10G7D
		16QAM			22.06		22.93	0.196	1M11D7D
	3	QPSK	700.5	714.5	22.93		23.80	0.240	2M67G7D
		16QAM			22.02		22.89	0.195	2M69D7D
	5	QPSK	701.5	713.5	22.96		23.83	0.242	4M51G7D
		16QAM			21.98		22.85	0.193	4M50D7D
	10	QPSK	704.0	711.0	23.01		23.88	0.244	8M93G7D
		16QAM			21.93		22.80	0.191	8M93D7D
13	5	QPSK	779.5	784.5	22.84	1.01	21.70	0.148	4M52G7D
		16QAM			22.11		20.97	0.125	4M52D7D
	10	QPSK	782.0		22.85		21.71	0.148	8M93G7D
		16QAM			22.06		20.92	0.124	8M93D7D
14	5	QPSK	790.5	795.5	22.56	2.53	21.42	0.139	4M50G7D
		16QAM			21.74		20.60	0.115	4M49D7D
	10	QPSK	793.0		22.57		21.43	0.139	8M93G7D
		16QAM			21.70		20.56	0.114	8M93D7D
25/2	1.4	QPSK	1 850.7	1 914.3	23.24	1.90	25.14	0.327	1M09G7D
		16QAM			22.56		24.46	0.279	1M10D7D
	3	QPSK	1 851.5	1 913.5	23.15		25.05	0.320	2M68G7D
		16QAM			22.56		24.46	0.279	2M69D7D
	5	QPSK	1 852.5	1 912.5	23.22		25.12	0.325	4M51G7D
		16QAM			22.38		24.28	0.268	4M51D7D
	10	QPSK	1 855.0	1 910.0	23.19		25.09	0.323	8M95G7D
		16QAM			22.67		24.57	0.286	8M95D7D
	15	QPSK	1 857.5	1 907.5	23.27		25.17	0.329	13M5G7D
		16QAM			22.28		24.18	0.262	13M5D7D
	20	QPSK	1 860.0	1 905.0	23.28		25.18	0.330	18M0G7D
		16QAM			22.28		24.18	0.262	17M9D7D

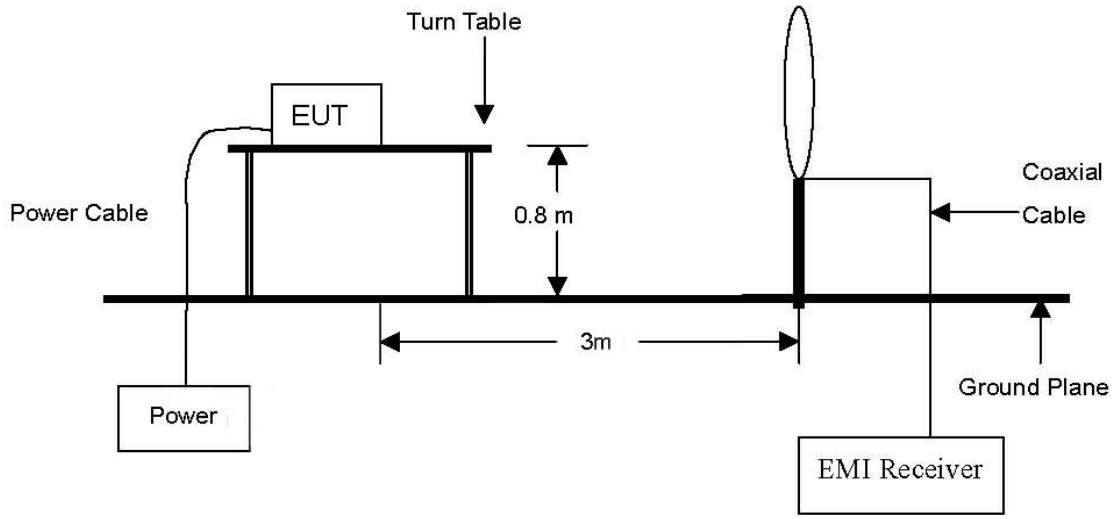
Band	Band width (㎒)	Modulation	Low Freq. (㎒)	Upper Freq. (㎒)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. / E.I.R.P. Average (dB m)	E.R.P. / E.I.R.P. Average (W)	Emission Designator
26/5 Part 22	1.4	QPSK	824.7	848.3	22.69	1.99	21.26	0.134	1M10G7D
		16QAM			21.87		20.44	0.111	1M09D7D
	3	QPSK	825.5	847.5	22.78		21.35	0.136	2M70G7D
		16QAM			22.20		20.77	0.119	2M69D7D
	5	QPSK	826.5	846.5	22.69		21.26	0.134	4M52G7D
		16QAM			22.27		20.84	0.121	4M50D7D
	10	QPSK	829.0	844.0	22.80		21.37	0.137	8M95G7D
		16QAM			21.94		20.51	0.112	8M95D7D
26 Part 22	15	QPSK	831.5	841.5	22.81		21.38	0.137	13M5G7D
		16QAM			21.95		20.52	0.113	13M5D7D
26 Part 90	1.4	QPSK	814.7	823.3	22.52	0.72	21.09	0.129	1M10G7D
		16QAM			21.91		20.48	0.112	1M09D7D
	3	QPSK	815.5	822.5	22.57		21.14	0.130	2M68G7D
		16QAM			21.88		20.45	0.111	2M69D7D
	5	QPSK	816.5	821.5	22.73		21.30	0.135	4M50G7D
		16QAM			21.84		20.41	0.110	4M51D7D
	10	QPSK	819.0		22.87		21.44	0.139	8M91G7D
		16QAM			22.07		20.64	0.116	8M93D7D
	15	QPSK	821.5		22.70		21.27	0.134	13M5G7D
		16QAM			21.79		20.69	0.117	13M5D7D
41	5	QPSK	2 498.5	2 687.5	22.74	4.43	27.17	0.521	4M52G7D
		16QAM			21.83		26.26	0.423	4M49D7D
	10	QPSK	2 501.0	2 685.0	22.78		27.21	0.526	8M97G7D
		16QAM			22.00		26.43	0.440	8M91D7D
	15	QPSK	2 503.5	2 682.5	22.72		27.15	0.519	13M5G7D
		16QAM			21.76		26.19	0.416	13M5D7D
	20	QPSK	2 506.0	2 680.0	22.72		27.15	0.519	17M9G7D
		16QAM			21.88		26.31	0.428	17M9D7D

Band	Band width (㎒)	Modulation	Low Freq. (㎒)	Upper Freq. (㎒)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. / E.I.R.P. Average (dB m)	E.R.P. / E.I.R.P. Average (W)	Emission Designator
66/4	1.4	QPSK	1 710.7	1 779.3	23.16	4.20	27.36	0.545	1M09G7D
		16QAM			22.33		26.53	0.450	1M10D7D
	3	QPSK	1 711.5	1 778.5	23.05		27.25	0.531	2M67G7D
		16QAM			22.35		26.55	0.452	2M69D7D
	5	QPSK	1 712.5	1 777.5	23.23		27.43	0.553	4M50G7D
		16QAM			22.36		26.56	0.453	4M50D7D
	10	QPSK	1 715.0	1 775.0	23.17		27.37	0.546	8M95G7D
		16QAM			22.58		26.78	0.476	8M91D7D
	15	QPSK	1 717.5	1 772.5	23.37		27.57	0.571	13M5G7D
		16QAM			22.56		26.76	0.474	13M5D7D
	20	QPSK	1 720.0	1 770.0	23.63		27.83	0.607	17M8G7D
		16QAM			22.59		26.79	0.478	17M9D7D
71	5	QPSK	665.5	695.5	22.89	-0.17	20.57	0.114	4M51G7D
		16QAM			22.11		19.79	0.095	4M51D7D
	10	QPSK	668.0	693.0	22.89		20.57	0.114	8M93G7D
		16QAM			22.01		19.69	0.093	8M93D7D
	15	QPSK	670.5	690.5	23.09		20.77	0.119	13M5G7D
		16QAM			22.11		19.79	0.095	13M5D7D
	20	QPSK	673.0	688.0	23.00		20.68	0.117	18M0G7D
		16QAM			22.08		19.76	0.095	17M9D7D

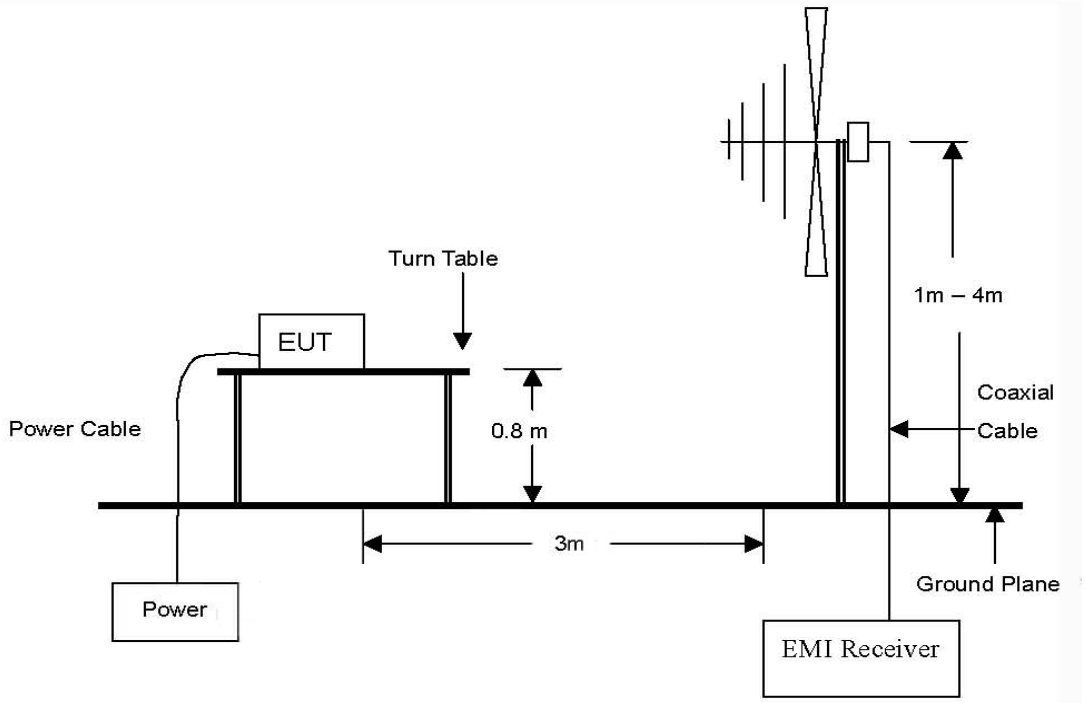
2. E.R.P. / E.I.R.P. & Radiated Spurious Emissions

2.1. Test setup

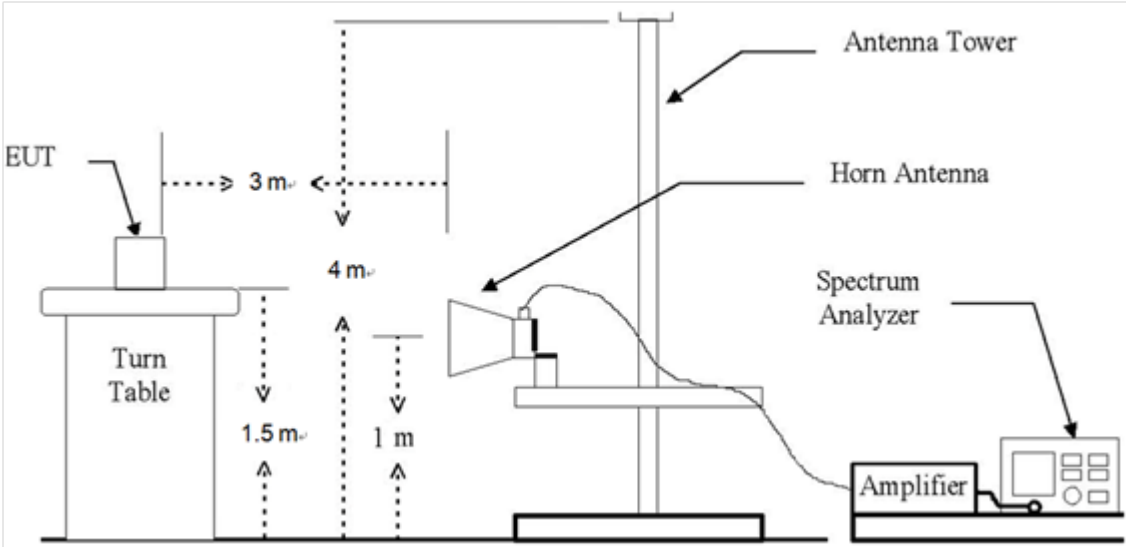
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 ㎑ to 30 ㎒.



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 27 ㎓ Emissions.



2.2. Limit

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

- §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(b)(9), Control stations and mobile stations transmitting in the 746-757 ㎒, 776-788 ㎒, and 805-806 ㎒ bands and fixed stations transmitting in the 787-788 ㎒ and 805-806 ㎒ bands are limited to 30 watts ERP.

- §27.50(c)(9), Control and mobile stations in the 698-746 ㎒ band are limited to 30 watts ERP.

- §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.

- §90.542(a)(6), Control stations and mobile stations transmitting in the 758-768 ㎒ band and the 788-798 ㎒ band are limited to 30 watts ERP.

- §90.635(b), the maximum output power of the transmitter for mobile stations is 100 watts (20 ㏈W).

2.2.2. Limit of Spurious Radiated Emission

- §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(f), For operations in the 746-758 ㎒, 775-788 ㎒, and 805-806 ㎒ bands, emissions in the band 1 559-1 610 ㎒ shall be limited to −70 ㏈W/㎒ equivalent isotropically radiated power (EIRP) for wideband signals, and −80 ㏈W EIRP for discrete emissions of less than 700 ㎐ bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

- §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 2 490.5 ㎒ and 2 496 ㎒ and 55 + 10 $\log_{10}$ (P) ㏈ at or below 2 490.5 ㎒. Mobile Satellite Service licensees operating on frequencies below 2 495 ㎒ 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.

- §90.543(e), For operations in the 758-768 ㎒ and the 788-798 ㎒ bands, the power of any emission outside the 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, in accordance with the following:

(1) On all frequencies between 769-775 ㎒ and 799-805 ㎒, by a factor not less than 76 + 10 log (P) dB in a 6.25 ㎑ band segment, for base and fixed stations.

(2) On all frequencies between 769-775 ㎒ and 799-805 ㎒, by a factor not less than 65 + 10 log (P) dB in a 6.25 ㎑ band segment, for mobile and portable stations.

(3) On any frequency between 775-788 ㎒, above 805 ㎒, and below 758 ㎒, by at least 43 + 10 log (P) dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 ㎑ segment.

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 ㎑ or greater. However, in the 100 ㎑ bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 ㎑ may be employed.

(f) For operations in the 758-775 ㎒ and 788-805 ㎒ bands, all emissions including harmonics in the band 1559-1610 ㎒ shall be limited to −70 ㏈W/㎒ equivalent isotropically radiated power (EIRP) for wideband signals, and −80 ㏈W EIRP for discrete emissions of less than 700 ㎐ bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

- §90.691(a), out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 ㎑, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log_{10} (f / 6.1) decibels or 50 + 10 Log_{10} (P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 ㎑.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 ㎑, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 Log_{10} (P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 ㎑.

2.3. Test Procedure

2.3.1. E.R.P. or E.I.R.P. from conducted RF output power

According to subclause 5.2.5.5 of ANSI C63.26-2015 E.R.P. and E.I.R.P. are defined as the product of the power supplied to the antenna and its gain.

The relevant equation for determining the E.R.P. or E.I.R.P. from the conducted RF output power measured using the guidance provided above is:

E.R.P. or E.I.R.P. = P_{Meas} + G_T

where:
E.R.P. or E.I.R.P. = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas}, typically dBW or dBm);
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;
G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

2.3.2. Radiated Spurious Emissions

The test 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 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz, VBW ≥ 3 x RBW,
   Detector = RMS, trace mode = max hold, per the guidelines of KDB 971168 D01 Power Meas License Digital Systems v03r01.
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 results

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

2.4.1. E.R.P. / E.I.R.P.

Band	Frequency (㎒)	Maximum Conducted Power (dB m)	Maximum Conducted 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)	Limit
7	2 500 ~ 2 570	23.02	0.200	4.43	27.45	0.556			2 W E.I.R.P.
12/17	699 ~ 716	23.01	0.200	3.02	26.03	0.401	23.88	0.244	30 W E.R.P.
13	777 ~ 787	22.85	0.193	1.01	23.86	0.243	21.71	0.148	30 W E.R.P.
14	788 ~ 798	22.57	0.181	2.53	25.10	0.324	22.95	0.197	30 W E.R.P.
25/2	1 850 ~ 1 915	23.28	0.213	1.90	25.18	0.330			2 W E.I.R.P.
26/5 Part 22	824 ~ 849	22.81	0.191	1.99	24.80	0.302	22.65	0.184	7 W E.R.P.
26 Part 90	814 ~ 824	22.87	0.194	0.72	23.59	0.229	21.44	0.139	100 W
41	2 496 ~ 2 690	22.78	0.190	4.43	27.21	0.526			2 W E.I.R.P.
66/4	1 710 ~ 1 780	23.63	0.231	4.20	27.83	0.607			1 W E.I.R.P.
71	663 ~ 698	23.09	0.204	-0.17	22.92	0.196	20.77	0.119	3 W E.R.P.

Remark;

1. E.I.R.P. (dB m) = Maximum Conducted 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.

2.4.2. Radiated spurious emissions

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 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (2 535.0 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–
High Channel (2 560.0 ㎒)									
Below 1 000.00	Not detected	–	–	–	–	–	–	–	–
Above 1 000.00	Not detected	–	–	–	–	–	–	–	–

LTE band 12/17 (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)
Low Channel (704.0 ㎒)									
1 417.03	53.85	H	25.13	-37.38	41.60	-97.41	-55.81	-13	42.81
1 416.86	52.04	V	25.13	-37.38	39.79	-97.41	-57.62	-13	44.62
2 125.11	64.71	H	27.75	-34.12	58.34	-97.41	-39.07	-13	26.07
2 125.24	65.98	V	27.75	-34.13	59.60	-97.41	-37.81	-13	24.81
3 541.96	72.85	H	31.18	-32.55	71.48	-97.41	-25.93	-13	12.93
3 541.89	76.46	V	31.18	-32.55	75.09	-97.41	**-22.32**	-13	9.32
4 250.62	38.41	H	32.10	-30.34	40.17	-97.41	-57.24	-13	44.24
4 250.67	40.45	V	32.10	-30.34	42.21	-97.41	-55.21	-13	42.21
6 375.69	43.22	H	34.90	-28.50	49.62	-97.41	-47.79	-13	34.79
6 375.85	49.89	V	34.90	-28.49	56.30	-97.41	-41.11	-13	28.11
Above 6 400.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (707.5 ㎒)									
1 423.86	56.61	H	25.15	-37.35	44.41	-97.41	-53.01	-13	40.01
1 423.82	53.66	V	25.15	-37.35	41.46	-97.41	-55.95	-13	42.95
2 135.72	59.47	H	27.69	-34.46	52.70	-97.41	-44.71	-13	31.71
2 135.63	59.90	V	27.69	-34.46	53.13	-97.41	-44.28	-13	31.28
3 559.59	61.99	H	31.24	-32.20	61.03	-97.41	-36.38	-13	23.38
3 559.82	63.46	V	31.24	-32.19	62.51	-97.41	-34.90	-13	21.90
4 271.55	38.46	H	32.10	-30.76	39.80	-97.41	-57.61	-13	44.61
4 271.66	41.22	V	32.10	-30.76	42.56	-97.41	-54.86	-13	41.86
6 407.32	40.32	H	34.89	-26.98	48.23	-97.41	-49.18	-13	36.18
6 407.33	44.55	V	34.89	-26.98	52.46	-97.41	-44.95	-13	31.95
Above 6 500.00	Not detected	–	–	–	–	–	–	–	–

LTE band 12/17 (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)
High Channel (711.0 ㎒)									
1 430.77	55.00	H	25.16	-37.29	42.87	-97.41	-54.54	-13	41.54
1 430.73	52.98	V	25.16	-37.29	40.85	-97.41	-56.56	-13	43.56
2 146.17	64.06	H	27.62	-34.80	56.88	-97.41	-40.53	-13	27.53
2 146.22	66.02	V	27.62	-34.80	58.84	-97.41	-38.57	-13	25.57
3 576.94	61.03	H	31.31	-31.55	60.79	-97.41	-36.62	-13	23.62
3 576.90	63.45	V	31.31	-31.56	63.20	-97.41	-34.21	-13	21.21
4 292.55	38.54	H	32.10	-30.66	39.98	-97.41	-57.44	-13	44.44
4 292.38	43.34	V	32.10	-30.66	44.78	-97.41	-52.64	-13	39.64
6 438.73	39.61	H	34.82	-27.62	46.81	-97.41	-50.60	-13	37.60
6 438.82	45.33	V	34.82	-27.62	52.53	-97.41	-44.88	-13	31.88
Above 6 500.00	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 ㎒)									
1 564.16	54.55	H	25.26	-36.71	43.10	-95.26	-52.16	-40	12.16
1 564.23	57.22	V	25.26	-36.71	45.77	-95.26	**-49.49**	-40	9.49
2 346.31	79.79	H	28.18	-34.93	73.04	-97.41	-24.37	-13	11.37
2 346.23	72.41	V	28.18	-34.93	65.66	-97.41	-31.76	-13	18.76
3 910.35	54.06	H	32.30	-31.04	55.32	-97.41	-42.10	-13	29.10
3 910.35	50.99	V	32.30	-31.04	52.25	-97.41	-45.16	-13	32.16
5 474.31	43.32	H	34.00	-30.29	47.03	-97.41	-50.39	-13	37.39
5 474.82	35.81	V	34.00	-30.29	39.52	-97.41	-57.90	-13	44.90
Above 5 500.00	Not detected	–	–	–	–	–	–	–	–

LTE band 14 (10 ㎒ - 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)
Middle Channel (793.0 ㎒)									
1 577.29	54.41	H	25.31	-36.28	43.44	-95.26	**-51.82**	-40	11.82
1 577.13	51.58	V	25.31	-36.29	40.60	-95.26	-54.66	-40	14.66
2 366.01	65.41	H	28.17	-33.15	60.43	-97.41	-36.98	-13	23.98
2 365.68	71.32	V	28.17	-33.17	66.32	-97.41	-31.10	-13	18.10
3 943.09	49.52	H	32.30	-31.24	50.58	-97.41	-46.83	-13	33.83
3 942.95	54.86	V	32.30	-31.23	55.93	-97.41	-41.49	-13	28.49
Above 4 000.00	Not detected	–	–	–	–	–	–	–	–

LTE band 25/2 (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 (1 860.0 ㎒)									
5 606.73	44.40	H	34.10	-27.38	51.12	-95.26	**-44.14**	-13	31.14
5 606.51	43.75	V	34.10	-27.41	50.44	-95.26	-44.82	-13	31.82
Above 5 700.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (1 882.5 ㎒)									
5 674.10	42.07	H	34.10	-28.86	47.31	-95.26	-47.95	-13	34.95
5 674.14	42.42	V	34.10	-28.86	47.66	-95.26	-47.60	-13	34.60
Above 5 700.00	Not detected	–	–	–	–	–	–	–	–
High Channel (1 905.0 ㎒)									
5 741.61	38.40	H	34.18	-28.25	44.33	-95.26	-50.93	-13	37.93
5 741.82	41.03	V	34.18	-28.24	46.97	-95.26	-48.29	-13	35.29
Above 5 800.00	Not detected	–	–	–	–	–	–	–	–

LTE band 26/5_Part 22 (15 ㎒ - 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 (831.5 ㎒)									
1 649.77	58.58	H	25.80	-37.15	47.23	-97.41	-50.18	-13	37.18
1 649.66	51.38	V	25.80	-37.15	40.03	-97.41	-57.38	-13	44.38
2 474.65	87.76	H	28.30	-33.59	82.47	-97.41	**-14.94**	-13	1.94
2 474.47	80.02	V	28.30	-33.60	74.72	-97.41	-22.69	-13	9.69
3 299.47	53.67	H	31.00	-33.72	50.95	-97.41	-46.46	-13	33.46
3 299.39	48.97	V	31.00	-33.72	46.25	-97.41	-51.16	-13	38.16
4 124.36	65.75	H	32.10	-30.51	67.34	-97.41	-30.07	-13	17.07
4 124.15	62.79	V	32.10	-30.50	64.39	-97.41	-33.02	-13	20.02
5 773.91	53.15	H	34.25	-29.88	57.52	-97.41	-39.89	-13	26.89
5 773.74	53.56	V	34.25	-29.87	57.94	-97.41	-39.47	-13	26.47
7 423.56	43.51	H	36.25	-28.84	50.92	-97.41	-46.49	-13	33.49
7 423.66	41.17	V	36.25	-28.85	48.57	-97.41	-48.84	-13	35.84
Above 7 500.00	Not detected	–	–	–	–	–	–	–	–
High Channel (841.5 ㎒)									
1 669.72	57.35	H	26.15	-36.86	46.64	-97.41	-50.77	-13	37.77
1 669.56	51.66	V	26.15	-36.86	40.95	-97.41	-56.46	-13	43.46
2 504.62	77.56	H	28.42	-35.02	70.96	-97.41	-26.45	-13	13.45
2 504.44	73.70	V	28.42	-35.02	67.10	-97.41	-30.31	-13	17.31
3 339.14	49.68	H	31.00	-33.76	46.92	-97.41	-50.49	-13	37.49
3 339.23	47.93	V	31.00	-33.76	45.17	-97.41	-52.24	-13	39.24
4 174.06	63.29	H	32.10	-32.24	63.15	-97.41	-34.26	-13	21.26
4 174.34	61.50	V	32.10	-32.25	61.35	-97.41	-36.06	-13	23.06
5 843.87	50.21	H	34.39	-29.90	54.70	-97.41	-42.71	-13	29.71
5 843.90	52.56	V	34.39	-29.90	57.05	-97.41	-40.36	-13	27.36
7 513.30	42.24	H	36.07	-28.54	49.77	-97.41	-47.65	-13	34.65
7 513.32	39.42	V	36.07	-28.54	46.95	-97.41	-50.46	-13	37.46
Above 7 600.00	Not detected	–	–	–	–	–	–	–	–

LTE band 26_Part 90 (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 (819.0 ㎒)									
1 629.14	57.24	H	25.63	-37.05	45.82	-97.41	-51.59	-13	38.59
1 629.09	55.22	V	25.63	-37.05	43.80	-97.41	-53.61	-13	40.61
2 443.82	89.10	H	28.19	-34.86	82.43	-97.41	**-14.98**	-13	1.98
2 443.80	66.16	V	28.19	-34.86	59.49	-97.41	-37.93	-13	24.93
3 258.23	52.99	H	30.83	-33.64	50.18	-97.41	-47.23	-13	34.23
3 258.38	48.00	V	30.83	-33.65	45.18	-97.41	-52.23	-13	39.23
4 072.76	63.19	H	32.10	-32.46	62.83	-97.41	-34.58	-13	21.58
4 073.05	64.88	V	32.10	-32.47	64.51	-97.41	-32.90	-13	19.90
5 702.38	54.15	H	34.10	-29.04	59.21	-97.41	-38.20	-13	25.20
5 702.05	53.22	V	34.10	-29.03	58.29	-97.41	-39.12	-13	26.12
7 331.51	46.51	H	36.16	-28.06	54.61	-97.41	-42.80	-13	29.80
7 331.18	43.09	V	36.16	-28.06	51.19	-97.41	-46.22	-13	33.22
Above 7 400.00	Not detected	–	–	–	–	–	–	–	–

LTE band 41 (10 ㎒ – 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 (2 501.0 ㎒)									
7 489.89	43.55	H	36.12	-27.56	52.11	-95.26	-43.15	-25	18.15
7 489.86	48.68	V	36.12	-27.56	57.24	-95.26	-38.02	-25	13.02
Above 7 500.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (2 593.0 ㎒)									
7 765.73	39.93	H	36.00	-26.72	49.21	-95.26	-46.05	-25	21.05
7 765.86	46.45	V	36.00	-26.71	55.74	-95.26	-39.52	-25	14.52
Above 7 800.00	Not detected	–	–	–	–	–	–	–	–
High Channel (2 685.0 ㎒)									
8 041.81	41.02	H	36.20	-26.11	51.11	-95.26	-44.15	-25	19.15
8 041.72	48.84	V	36.20	-26.12	58.92	-95.26	**-36.34**	-25	11.34
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 ㎒)									
5 133.36	40.82	H	33.57	-29.87	44.52	-95.26	-50.74	-13	37.74
5 133.35	40.21	V	33.57	-29.87	43.91	-95.26	-51.35	-13	38.35
8 559.85	33.01	H	36.52	-26.82	42.71	-95.26	-52.55	-13	39.55
8 555.49	36.30	V	36.51	-26.58	46.23	-95.26	-49.03	-13	36.03
Above 8 600.00	Not detected	–	–	–	–	–	–	–	–
Middle Channel (1 745.0 ㎒)									
5 208.26	39.60	H	33.72	-30.01	43.31	-95.26	-51.96	-13	38.96
5 208.33	41.61	V	33.72	-30.01	45.32	-95.26	-49.94	-13	36.94
8 678.47	33.80	H	36.66	-27.03	43.43	-95.26	-51.83	-13	38.83
8 680.37	42.60	V	36.66	-27.06	52.20	-95.26	-43.07	-13	30.07
Above 8 700.00	Not detected	–	–	–	–	–	–	–	–
High Channel (1 770.0 ㎒)									
5 283.23	43.39	H	33.93	-29.06	48.26	-95.26	-47.00	-13	34.00
5 283.43	44.69	V	33.93	-29.06	49.56	-95.26	-45.70	-13	32.70
8 805.43	34.29	H	37.01	-26.95	44.35	-95.26	-50.91	-13	37.91
8 805.42	42.39	V	37.01	-26.95	52.45	-95.26	**-42.81**	-13	29.81
Above 8 900.00	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 ㎒)									
1 340.82	48.92	H	25.02	-36.96	36.98	-97.41	-60.43	-13	47.43
1 340.59	49.26	V	25.02	-36.95	37.33	-97.41	-60.08	-13	47.08
2 011.06	68.27	H	27.72	-34.78	61.21	-97.41	-36.20	-13	23.20
2 010.85	71.91	V	27.72	-34.78	64.85	-97.41	-32.56	-13	19.56
3 351.54	63.07	H	31.00	-32.72	61.35	-97.41	-36.06	-13	23.06
3 351.86	70.45	V	31.00	-32.72	68.73	-97.41	-28.68	-13	15.68
Above 3 400.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (680.5 ㎒)									
1 360.43	49.33	H	25.02	-37.45	36.90	-97.41	-60.51	-13	47.51
1 360.66	47.09	V	25.02	-37.45	34.66	-97.41	-62.75	-13	49.75
2 041.02	70.51	H	27.78	-34.43	63.86	-97.41	-33.55	-13	20.55
2 041.17	69.87	V	27.78	-34.43	63.22	-97.41	-34.19	-13	21.19
3 401.25	68.71	H	31.00	-32.12	67.59	-97.41	-29.82	-13	16.82
3 401.63	70.60	V	31.00	-32.10	69.50	-97.41	-27.91	-13	14.91
Above 3 500.00	Not detected	-	-	-	-	-	-	-	-
High Channel (690.5 ㎒)									
1 380.76	51.19	H	25.06	-37.57	38.68	-97.41	-58.74	-13	45.74
1 380.98	51.52	V	25.06	-37.57	39.01	-97.41	-58.40	-13	45.40
2 070.88	74.22	H	27.84	-34.09	67.97	-97.41	-29.44	-13	16.44
2 070.98	78.09	V	27.84	-34.09	71.84	-97.41	-25.57	-13	12.57
3 451.59	79.22	H	31.00	-32.33	77.89	-97.41	-19.52	-13	6.52
3 451.69	81.76	V	31.00	-32.33	80.43	-97.41	**-16.98**	-13	3.98
Above 3 500.00	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

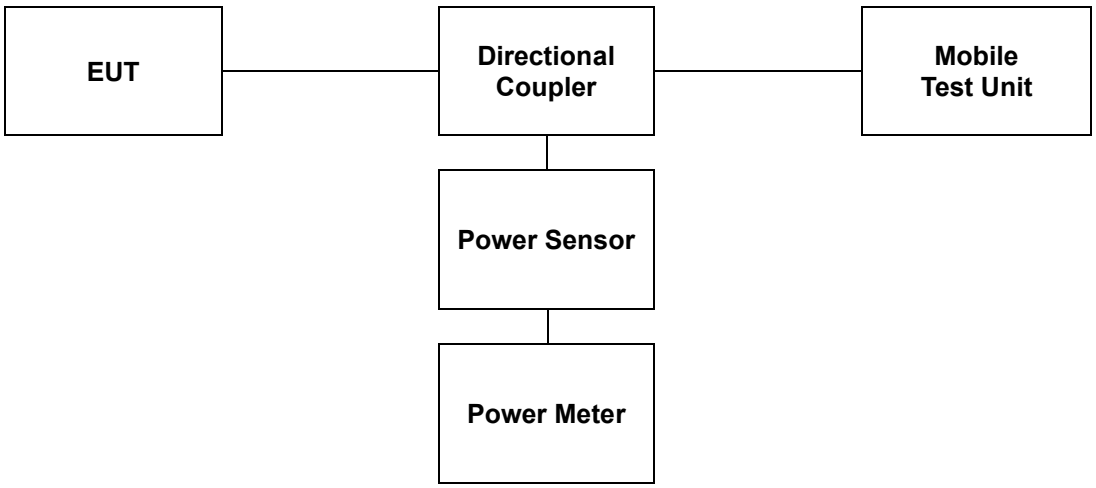
3.1. Limit

CFR 47, Section FCC §2.1046

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 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	22.56	0.180	22.61	0.182	22.40	0.174
		1	12	22.45	0.176	**22.98**	**0.199**	22.37	0.173
		1	24	22.58	0.181	22.59	0.182	22.33	0.171
		12	0	21.66	0.147	21.56	0.143	21.46	0.140
		12	6	21.65	0.146	21.62	0.145	21.66	0.147
		12	13	21.24	0.133	21.71	0.148	21.43	0.139
		25	0	21.66	0.147	21.67	0.147	21.39	0.138
	16QAM	1	0	22.03	0.160	21.75	0.150	21.58	0.144
		1	12	21.64	0.146	21.91	0.155	21.63	0.146
		1	24	**22.06**	**0.161**	21.71	0.148	21.61	0.145
		12	0	20.68	0.117	20.59	0.115	20.34	0.108
		12	6	20.89	0.123	20.76	0.119	20.56	0.114
		12	13	20.51	0.112	20.59	0.115	20.49	0.112
		25	0	20.60	0.115	20.68	0.117	20.66	0.116
	64QAM	1	0	20.65	0.116	20.72	0.118	20.40	0.110
		1	12	20.76	0.119	20.61	0.115	20.33	0.108
		1	24	20.71	0.118	**20.79**	**0.120**	20.46	0.111
		12	0	19.59	0.091	19.52	0.090	19.86	0.097
		12	6	19.54	0.090	19.53	0.090	19.93	0.098
		12	13	19.41	0.087	19.56	0.090	20.11	0.103
		25	0	19.48	0.089	19.51	0.089	19.85	0.097
	256QAM	1	0	17.53	0.057	17.69	0.059	17.58	0.057
		1	12	17.64	0.058	**17.78**	**0.060**	17.62	0.058
		1	24	17.54	0.057	17.69	0.059	17.49	0.056
		12	0	17.57	0.057	17.66	0.058	17.65	0.058
		12	6	17.65	0.058	17.61	0.058	17.39	0.055
		12	13	17.57	0.057	17.60	0.058	17.63	0.058
		25	0	17.58	0.057	17.54	0.057	17.59	0.057

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	22.50	0.178	22.68	0.185	22.52	0.179
		1	25	22.40	0.174	22.71	0.187	22.34	0.171
		1	49	22.45	0.176	**22.93**	**0.196**	22.88	0.194
		25	0	21.52	0.142	21.61	0.145	21.52	0.142
		25	12	21.56	0.143	21.56	0.143	21.58	0.144
		25	25	21.48	0.141	21.65	0.146	21.60	0.145
		50	0	21.69	0.148	21.59	0.144	21.54	0.143
	16QAM	1	0	22.02	0.159	21.75	0.150	21.53	0.142
		1	25	**22.45**	**0.176**	21.78	0.151	21.78	0.151
		1	49	21.60	0.145	22.05	0.160	21.59	0.144
		25	0	20.76	0.119	20.60	0.115	20.59	0.115
		25	12	20.65	0.116	20.68	0.117	20.58	0.114
		25	25	20.68	0.117	20.71	0.118	20.56	0.114
		50	0	20.67	0.117	20.71	0.118	20.60	0.115
	64QAM	1	0	20.53	0.113	20.60	0.115	20.62	0.115
		1	25	20.63	0.116	**20.69**	**0.117**	20.40	0.110
		1	49	20.65	0.116	20.65	0.116	20.53	0.113
		25	0	19.72	0.094	19.53	0.090	19.44	0.088
		25	12	19.87	0.097	19.58	0.091	19.40	0.087
		25	25	19.79	0.095	19.56	0.090	19.39	0.087
		50	0	19.55	0.090	19.43	0.088	19.45	0.088
	256QAM	1	0	**18.04**	**0.064**	17.82	0.061	17.77	0.060
		1	25	17.87	0.061	17.88	0.061	17.43	0.055
		1	49	17.65	0.058	17.71	0.059	17.60	0.058
		25	0	17.75	0.060	17.75	0.060	17.62	0.058
		25	12	17.67	0.058	17.74	0.059	17.56	0.057
		25	25	17.71	0.059	17.75	0.060	17.59	0.057
		50	0	17.74	0.059	17.74	0.059	17.65	0.058

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	22.51	0.178	**22.96**	**0.198**	22.62	0.183
		1	36	22.50	0.178	22.62	0.183	22.67	0.185
		1	74	22.43	0.175	22.67	0.185	22.39	0.173
		36	0	21.68	0.147	21.56	0.143	21.57	0.144
		36	18	21.66	0.147	21.60	0.145	21.61	0.145
		36	37	21.74	0.149	21.67	0.147	21.37	0.137
		75	0	21.69	0.148	21.63	0.146	21.55	0.143
	16QAM	1	0	21.97	0.157	21.75	0.150	21.59	0.144
		1	36	**22.25**	**0.168**	21.90	0.155	21.57	0.144
		1	74	21.84	0.153	22.13	0.163	21.58	0.144
		36	0	20.84	0.121	20.71	0.118	20.55	0.114
		36	18	20.89	0.123	20.69	0.117	20.53	0.113
		36	37	20.78	0.120	20.61	0.115	20.45	0.111
		75	0	20.60	0.115	20.67	0.117	20.54	0.113
	64QAM	1	0	20.67	0.117	20.63	0.116	20.60	0.115
		1	36	20.58	0.114	**20.96**	**0.125**	20.36	0.109
		1	74	20.51	0.112	20.76	0.119	20.21	0.105
		36	0	19.61	0.091	19.41	0.087	19.41	0.087
		36	18	19.69	0.093	19.56	0.090	19.42	0.087
		36	37	19.66	0.092	19.61	0.091	19.22	0.084
		75	0	19.35	0.086	19.50	0.089	19.32	0.086
	256QAM	1	0	17.79	0.060	17.78	0.060	17.71	0.059
		1	36	17.80	0.060	17.83	0.061	17.46	0.056
		1	74	17.69	0.059	**17.86**	**0.061**	17.30	0.054
		36	0	17.68	0.059	17.71	0.059	17.58	0.057
		36	18	17.65	0.058	17.61	0.058	17.51	0.056
		36	37	17.48	0.056	17.57	0.057	17.37	0.055
		75	0	17.63	0.058	17.72	0.059	17.51	0.056

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	22.67	0.185	22.61	0.182	22.49	0.177
		1	50	22.38	0.173	22.64	0.184	22.48	0.177
		1	99	**23.02**	**0.200**	23.01	0.200	22.34	0.171
		50	0	21.60	0.145	21.50	0.141	21.54	0.143
		50	25	21.88	0.154	21.74	0.149	21.52	0.142
		50	50	21.65	0.146	21.64	0.146	21.51	0.142
		100	0	21.60	0.145	21.69	0.148	21.48	0.141
	16QAM	1	0	21.88	0.154	21.78	0.151	21.62	0.145
		1	50	21.76	0.150	21.82	0.152	21.67	0.147
		1	99	21.75	0.150	**21.93**	**0.156**	21.62	0.145
		50	0	20.77	0.119	20.74	0.119	20.45	0.111
		50	25	20.65	0.116	20.72	0.118	20.59	0.115
		50	50	20.74	0.119	20.72	0.118	20.49	0.112
		100	0	20.65	0.116	20.58	0.114	20.54	0.113
	64QAM	1	0	20.63	0.116	20.55	0.114	20.70	0.117
		1	50	20.65	0.116	20.69	0.117	20.55	0.114
		1	99	20.65	0.116	**20.77**	**0.119**	20.43	0.110
		50	0	19.52	0.090	19.49	0.089	19.48	0.089
		50	25	19.48	0.089	19.44	0.088	19.41	0.087
		50	50	19.51	0.089	19.54	0.090	19.36	0.086
		100	0	19.42	0.087	19.45	0.088	19.40	0.087
	256QAM	1	0	17.96	0.063	17.75	0.060	17.94	0.062
		1	50	17.93	0.062	**18.02**	**0.06**	17.70	0.059
		1	99	17.69	0.059	17.90	0.062	17.44	0.055
		50	0	17.83	0.061	17.75	0.060	17.61	0.058
		50	25	17.67	0.058	17.80	0.060	17.62	0.058
		50	50	17.69	0.059	17.81	0.060	17.58	0.057
		100	0	17.60	0.058	17.67	0.058	17.59	0.057

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	22.56	0.180	22.61	0.182	22.40	0.174
		1	3	22.45	0.176	**22.98**	**0.199**	22.37	0.173
		1	5	22.58	0.181	22.59	0.182	22.33	0.171
		3	0	21.66	0.147	21.56	0.143	21.49	0.141
		3	2	21.65	0.146	21.62	0.145	21.65	0.146
		3	3	21.24	0.133	21.71	0.148	21.69	0.148
		6	0	21.66	0.147	21.67	0.147	21.65	0.146
	16QAM	1	0	22.03	0.160	21.75	0.150	21.58	0.144
		1	3	21.64	0.146	21.91	0.155	21.63	0.146
		1	5	**22.06**	**0.161**	21.71	0.148	21.61	0.145
		3	0	20.68	0.117	20.59	0.115	21.05	0.127
		3	2	20.89	0.123	20.76	0.119	20.80	0.120
		3	3	20.51	0.112	20.59	0.115	20.86	0.122
		6	0	20.60	0.115	20.68	0.117	20.74	0.119
	64QAM	1	0	20.65	0.116	20.72	0.118	20.40	0.110
		1	3	20.76	0.119	20.61	0.115	20.33	0.108
		1	5	20.71	0.118	**20.79**	**0.120**	20.46	0.111
		3	0	19.59	0.091	19.52	0.090	19.59	0.091
		3	2	19.54	0.090	19.53	0.090	19.51	0.089
		3	3	19.41	0.087	19.56	0.090	19.79	0.095
		6	0	19.48	0.089	19.51	0.089	19.72	0.094
	256QAM	1	0	17.53	0.057	17.69	0.059	17.58	0.057
		1	3	17.64	0.058	**17.78**	**0.060**	17.62	0.058
		1	5	17.54	0.057	17.69	0.059	17.49	0.056
		3	0	17.57	0.057	17.66	0.058	17.65	0.058
		3	2	17.65	0.058	17.61	0.058	17.39	0.055
		3	3	17.57	0.057	17.60	0.058	17.63	0.058
		6	0	17.58	0.057	17.54	0.057	17.59	0.057

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	22.50	0.178	22.68	0.185	22.52	0.179
		1	7	22.40	0.174	22.71	0.187	22.34	0.171
		1	14	22.45	0.176	**22.93**	**0.196**	22.88	0.194
		8	0	21.53	0.142	21.61	0.145	21.52	0.142
		8	4	21.58	0.144	21.56	0.143	21.58	0.144
		8	7	21.64	0.146	21.65	0.146	21.60	0.145
		15	0	21.69	0.148	21.59	0.144	21.54	0.143
	16QAM	1	0	**22.02**	**0.159**	21.75	0.150	21.53	0.142
		1	7	21.74	0.149	21.78	0.151	21.78	0.151
		1	14	21.60	0.145	21.88	0.154	21.59	0.144
		8	0	20.69	0.117	20.60	0.115	20.59	0.115
		8	4	20.76	0.119	20.78	0.120	20.58	0.114
		8	7	20.73	0.118	20.71	0.118	20.56	0.114
		15	0	20.67	0.117	20.71	0.118	20.60	0.115
	64QAM	1	0	20.53	0.113	20.60	0.115	20.62	0.115
		1	7	20.63	0.116	**20.69**	**0.117**	20.40	0.110
		1	14	20.65	0.116	20.65	0.116	20.53	0.113
		8	0	19.72	0.094	19.53	0.090	19.44	0.088
		8	4	19.87	0.097	19.58	0.091	19.40	0.087
		8	7	19.88	0.097	19.56	0.090	19.39	0.087
		15	0	19.85	0.097	19.43	0.088	19.45	0.088
	256QAM	1	0	**18.04**	**0.064**	17.82	0.061	17.77	0.060
		1	7	17.87	0.061	17.88	0.061	17.43	0.055
		1	14	17.65	0.058	17.71	0.059	17.60	0.058
		8	0	17.75	0.060	17.75	0.060	17.62	0.058
		8	4	17.67	0.058	17.74	0.059	17.56	0.057
		8	7	17.71	0.059	17.75	0.060	17.59	0.057
		15	0	17.74	0.059	17.74	0.059	17.65	0.058

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	22.51	0.178	**22.96**	**0.198**	22.62	0.183
		1	12	22.50	0.178	22.62	0.183	22.67	0.185
		1	24	22.43	0.175	22.67	0.185	22.39	0.173
		12	0	21.60	0.145	21.56	0.143	21.57	0.144
		12	6	21.56	0.143	21.60	0.145	21.61	0.145
		12	13	21.71	0.148	21.67	0.147	21.37	0.137
		25	0	21.47	0.140	21.63	0.146	21.55	0.143
	16QAM	1	0	21.97	0.157	21.75	0.150	21.59	0.144
		1	12	**21.98**	**0.158**	21.90	0.155	21.57	0.144
		1	24	21.84	0.153	21.74	0.149	21.58	0.144
		12	0	21.14	0.130	20.71	0.118	20.55	0.114
		12	6	21.78	0.151	20.69	0.117	20.53	0.113
		12	13	20.81	0.121	20.61	0.115	20.45	0.111
		25	0	20.60	0.115	20.67	0.117	20.54	0.113
	64QAM	1	0	20.67	0.117	20.63	0.116	20.60	0.115
		1	12	20.58	0.114	**20.96**	**0.125**	20.36	0.109
		1	24	20.51	0.112	20.76	0.119	20.21	0.105
		12	0	19.78	0.095	19.41	0.087	19.41	0.087
		12	6	19.86	0.097	19.56	0.090	19.42	0.087
		12	13	19.87	0.097	19.61	0.091	19.22	0.084
		25	0	19.65	0.092	19.50	0.089	19.32	0.086
	256QAM	1	0	17.79	0.060	17.78	0.060	17.71	0.059
		1	12	17.80	0.060	17.83	0.061	17.46	0.056
		1	24	17.69	0.059	**17.86**	**0.061**	17.30	0.054
		12	0	17.68	0.059	17.71	0.059	17.58	0.057
		12	6	17.65	0.058	17.61	0.058	17.51	0.056
		12	13	17.48	0.056	17.57	0.057	17.37	0.055
		25	0	17.63	0.058	17.72	0.059	17.51	0.056

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	22.67	0.185	22.61	0.182	22.49	0.177
		1	25	22.38	0.173	22.64	0.184	22.48	0.177
		1	49	22.52	0.179	**23.01**	**0.200**	22.34	0.171
		25	0	21.61	0.145	21.50	0.141	21.54	0.143
		25	12	21.87	0.154	21.74	0.149	21.52	0.142
		25	25	21.63	0.146	21.64	0.146	21.51	0.142
		50	0	21.60	0.145	21.69	0.148	21.48	0.141
	16QAM	1	0	21.88	0.154	21.78	0.151	21.62	0.145
		1	25	21.76	0.150	21.82	0.152	21.67	0.147
		1	49	21.75	0.150	**21.93**	**0.156**	21.62	0.145
		25	0	20.69	0.117	20.74	0.119	20.45	0.111
		25	12	20.76	0.119	20.72	0.118	20.59	0.115
		25	25	20.83	0.121	20.72	0.118	20.49	0.112
		50	0	20.65	0.116	20.58	0.114	20.54	0.113
	64QAM	1	0	20.63	0.116	20.55	0.114	20.70	0.117
		1	25	20.65	0.116	20.69	0.117	20.55	0.114
		1	49	20.65	0.116	**20.77**	**0.119**	20.43	0.110
		25	0	19.77	0.095	19.49	0.089	19.48	0.089
		25	12	19.89	0.097	19.44	0.088	19.41	0.087
		25	25	19.73	0.094	19.54	0.090	19.36	0.086
		50	0	19.62	0.092	19.85	0.097	19.40	0.087
	256QAM	1	0	17.96	0.063	17.75	0.060	17.94	0.062
		1	25	17.93	0.062	**18.02**	**0.063**	17.70	0.059
		1	49	17.69	0.059	17.90	0.062	17.44	0.055
		25	0	17.83	0.061	17.75	0.060	17.61	0.058
		25	12	17.67	0.058	17.80	0.060	17.62	0.058
		25	25	17.69	0.059	17.81	0.060	17.58	0.057
		50	0	17.60	0.058	17.67	0.058	17.59	0.057

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	22.64	0.184	22.79	0.190	22.74	0.188
		1	12	22.69	0.186	**22.84**	**0.192**	22.81	0.191
		1	24	22.63	0.183	22.70	0.186	22.83	0.192
		12	0	21.65	0.146	21.73	0.149	21.97	0.157
		12	6	21.80	0.151	21.74	0.149	21.88	0.154
		12	13	21.77	0.150	21.73	0.149	21.92	0.156
		25	0	21.80	0.151	21.71	0.148	21.89	0.155
	16QAM	1	0	21.91	0.155	**22.11**	**0.163**	21.98	0.158
		1	12	21.99	0.158	22.10	0.162	21.92	0.156
		1	24	22.05	0.160	21.82	0.152	21.88	0.154
		12	0	20.71	0.118	20.77	0.119	21.01	0.126
		12	6	20.84	0.121	20.70	0.117	20.89	0.123
		12	13	20.68	0.117	20.77	0.119	20.94	0.124
		25	0	20.85	0.122	20.78	0.120	20.88	0.122
	64QAM	1	0	20.58	0.114	20.84	0.121	20.87	0.122
		1	12	20.91	0.123	20.85	0.122	**21.04**	**0.127**
		1	24	20.94	0.124	20.77	0.119	20.94	0.124
		12	0	19.63	0.092	19.74	0.094	19.87	0.097
		12	6	19.80	0.095	19.82	0.096	19.91	0.098
		12	13	19.80	0.095	19.81	0.096	19.88	0.097
		25	0	19.66	0.092	19.77	0.095	19.96	0.099
	256QAM	1	0	17.46	0.056	17.76	0.060	17.65	0.058
		1	12	17.75	0.060	**17.92**	**0.062**	17.66	0.058
		1	24	17.70	0.059	17.89	0.062	17.56	0.057
		12	0	17.64	0.058	17.81	0.060	17.51	0.056
		12	6	17.83	0.061	17.73	0.059	17.76	0.060
		12	13	17.72	0.059	17.75	0.060	17.45	0.056
		25	0	17.68	0.059	17.84	0.061	17.46	0.056

LTE Band 13									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
						23230 (782.0 ㎒)			
						(dB m)	(W)		
10	QPSK	1	0	-	-	22.65	0.184	-	-
		1	25	-	-	**22.85**	**0.193**	-	-
		1	49	-	-	22.62	0.183	-	-
		25	0	-	-	21.85	0.153	-	-
		25	12	-	-	21.77	0.150	-	-
		25	25	-	-	21.61	0.145	-	-
		50	0	-	-	21.93	0.156	-	-
	16QAM	1	0	-	-	21.97	0.157	-	-
		1	25	-	-	22.01	0.159	-	-
		1	49	-	-	**22.06**	**0.161**	-	-
		25	0	-	-	20.86	0.122	-	-
		25	12	-	-	20.91	0.123	-	-
		25	25	-	-	20.79	0.120	-	-
		50	0	-	-	21.00	0.126	-	-
	64QAM	1	0	-	-	20.71	0.118	-	-
		1	25	-	-	**21.07**	**0.128**	-	-
		1	49	-	-	21.00	0.126	-	-
		25	0	-	-	19.87	0.097	-	-
		25	12	-	-	19.90	0.098	-	-
		25	25	-	-	19.65	0.092	-	-
		50	0	-	-	19.97	0.099	-	-
	256QAM	1	0	-	-	17.65	0.058	-	-
		1	25	-	-	**18.03**	**0.064**	-	-
		1	49	-	-	17.77	0.060	-	-
		25	0	-	-	17.93	0.062	-	-
		25	12	-	-	17.84	0.061	-	-
		25	25	-	-	17.76	0.060	-	-
		50	0	-	-	17.90	0.062	-	-

LTE Band 14									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23305 (790.5 ㎒)		23330 (793.0 ㎒)		23355 (795.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.53	0.179	22.42	0.175	22.46	0.176
		1	12	22.49	0.177	22.53	0.179	**22.56**	**0.180**
		1	24	22.39	0.173	22.25	0.168	22.32	0.171
		12	0	21.52	0.142	21.43	0.139	21.36	0.137
		12	6	21.48	0.141	21.36	0.137	21.41	0.138
		12	13	21.33	0.136	21.32	0.136	21.39	0.138
		25	0	21.48	0.141	21.29	0.135	21.30	0.135
	16QAM	1	0	**21.74**	**0.149**	21.54	0.143	21.56	0.143
		1	12	21.49	0.141	21.65	0.146	21.61	0.145
		1	24	21.58	0.144	21.49	0.141	21.59	0.144
		12	0	20.48	0.112	20.39	0.109	20.36	0.109
		12	6	20.53	0.113	20.45	0.111	20.38	0.109
		12	13	20.41	0.110	20.44	0.111	20.41	0.110
		25	0	20.43	0.110	20.37	0.109	20.39	0.109
	64QAM	1	0	20.54	0.113	20.51	0.112	20.54	0.113
		1	12	20.48	0.112	20.58	0.114	20.49	0.112
		1	24	**20.61**	**0.115**	20.43	0.110	20.51	0.112
		12	0	19.53	0.090	19.34	0.086	19.45	0.088
		12	6	19.51	0.089	19.38	0.087	19.48	0.089
		12	13	19.42	0.087	19.32	0.086	19.51	0.089
		25	0	19.48	0.089	19.23	0.084	19.41	0.087
	256QAM	1	0	17.45	0.056	17.41	0.055	17.54	0.057
		1	12	17.53	0.057	17.48	0.056	17.43	0.055
		1	24	17.48	0.056	17.51	0.056	17.39	0.055
		12	0	**17.62**	**0.058**	17.33	0.054	17.41	0.055
		12	6	17.54	0.057	17.39	0.055	17.36	0.054
		12	13	17.53	0.057	17.27	0.053	17.28	0.053
		25	0	17.45	0.056	17.31	0.054	17.32	0.054

LTE Band 14									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
						23330 (793.0 ㎒)			
						(dB m)	(W)		
10	QPSK	1	0	-	-	**22.57**	**0.181**	-	-
		1	25	-	-	22.34	0.171	-	-
		1	49	-	-	22.21	0.166	-	-
		25	0	-	-	21.46	0.140	-	-
		25	12	-	-	21.32	0.136	-	-
		25	25	-	-	21.29	0.135	-	-
		50	0	-	-	21.37	0.137	-	-
	16QAM	1	0	-	-	**21.70**	**0.148**	-	-
		1	25	-	-	21.51	0.142	-	-
		1	49	-	-	21.58	0.144	-	-
		25	0	-	-	20.36	0.109	-	-
		25	12	-	-	20.33	0.108	-	-
		25	25	-	-	20.18	0.104	-	-
		50	0	-	-	20.34	0.108	-	-
	64QAM	1	0	-	-	**20.58**	**0.114**	-	-
		1	25	-	-	20.48	0.112	-	-
		1	49	-	-	20.49	0.112	-	-
		25	0	-	-	19.49	0.089	-	-
		25	12	-	-	19.37	0.086	-	-
		25	25	-	-	19.26	0.084	-	-
		50	0	-	-	19.25	0.084	-	-
	256QAM	1	0	-	-	**17.56**	**0.057**	-	-
		1	25	-	-	17.49	0.056	-	-
		1	49	-	-	17.23	0.053	-	-
		25	0	-	-	17.35	0.054	-	-
		25	12	-	-	17.32	0.054	-	-
		25	25	-	-	17.26	0.053	-	-
		50	0	-	-	17.31	0.054	-	-

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	23.15	0.207	23.15	0.207	**23.24**	**0.211**
		1	3	23.15	0.207	22.95	0.197	23.05	0.202
		1	5	23.16	0.207	22.93	0.196	23.08	0.203
		3	0	22.85	0.193	22.88	0.194	22.88	0.194
		3	2	22.79	0.190	22.92	0.196	22.93	0.196
		3	3	22.86	0.193	22.78	0.190	22.87	0.194
		6	0	22.03	0.160	22.11	0.163	22.02	0.159
	16QAM	1	0	22.10	0.162	22.19	0.166	22.26	0.168
		1	3	**22.56**	**0.180**	22.08	0.161	22.47	0.177
		1	5	22.45	0.176	22.19	0.166	22.23	0.167
		3	0	22.31	0.170	22.12	0.163	22.36	0.172
		3	2	22.53	0.179	22.21	0.166	22.24	0.167
		3	3	22.47	0.177	22.28	0.169	22.17	0.165
		6	0	21.08	0.128	21.30	0.135	21.54	0.143
	64QAM	1	0	21.18	0.131	21.16	0.131	21.37	0.137
		1	3	**21.50**	**0.141**	21.12	0.129	21.25	0.133
		1	5	21.34	0.136	20.98	0.125	21.22	0.132
		3	0	21.11	0.129	21.45	0.140	21.22	0.132
		3	2	21.33	0.136	21.02	0.126	21.16	0.131
		3	3	21.26	0.134	21.05	0.127	21.21	0.132
		6	0	20.26	0.106	20.34	0.108	20.21	0.105
	256QAM	1	0	**18.34**	**0.068**	18.20	0.066	18.05	0.064
		1	3	18.32	0.068	18.24	0.067	18.29	0.067
		1	5	18.13	0.065	18.23	0.067	18.15	0.065
		3	0	18.21	0.066	18.12	0.065	18.25	0.067
		3	2	18.24	0.067	18.11	0.065	18.25	0.067
		3	3	18.27	0.067	18.05	0.064	18.23	0.067
		6	0	18.18	0.066	18.06	0.064	18.23	0.067

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	22.90	0.195	22.87	0.194	22.85	0.193
		1	7	23.06	0.202	22.83	0.192	22.98	0.199
		1	14	22.99	0.199	22.85	0.193	**23.15**	**0.207**
		8	0	21.95	0.157	21.89	0.155	21.83	0.152
		8	4	22.01	0.159	21.94	0.156	21.84	0.153
		8	7	21.93	0.156	21.88	0.154	21.82	0.152
		15	0	22.00	0.158	21.85	0.153	21.85	0.153
	16QAM	1	0	22.28	0.169	22.13	0.163	22.09	0.162
		1	7	22.40	0.174	**22.56**	**0.180**	22.56	0.180
		1	14	22.35	0.172	22.11	0.163	22.21	0.166
		8	0	21.28	0.134	20.93	0.124	20.90	0.123
		8	4	21.11	0.129	20.98	0.125	20.89	0.123
		8	7	21.14	0.130	20.90	0.123	20.91	0.123
		15	0	21.06	0.128	20.89	0.123	20.89	0.123
	64QAM	1	0	21.17	0.131	21.05	0.127	21.10	0.129
		1	7	21.46	0.140	20.97	0.125	21.29	0.135
		1	14	**21.48**	**0.141**	20.94	0.124	21.23	0.133
		8	0	20.06	0.101	19.92	0.098	19.85	0.097
		8	4	20.27	0.106	19.90	0.098	19.83	0.096
		8	7	20.06	0.101	19.94	0.099	19.82	0.096
		15	0	20.10	0.102	19.92	0.098	19.87	0.097
	256QAM	1	0	17.96	0.063	17.95	0.062	17.93	0.062
		1	7	18.14	0.065	17.95	0.062	18.12	0.065
		1	14	18.13	0.065	17.74	0.059	18.12	0.065
		8	0	18.02	0.063	17.95	0.062	17.80	0.060
		8	4	18.09	0.064	17.96	0.063	17.85	0.061
		8	7	**18.20**	**0.066**	17.96	0.063	17.79	0.060
		15	0	18.06	0.064	17.88	0.061	17.89	0.062

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	23.08	0.203	23.02	0.200	22.91	0.195
		1	12	23.02	0.200	22.88	0.194	22.83	0.192
		1	24	**23.22**	**0.210**	22.79	0.190	22.89	0.195
		12	0	21.82	0.152	21.79	0.151	21.87	0.154
		12	6	22.05	0.160	21.54	0.143	21.92	0.156
		12	13	22.04	0.160	21.87	0.154	21.91	0.155
		25	0	21.85	0.153	21.95	0.157	21.83	0.152
	16QAM	1	0	**22.38**	**0.173**	22.30	0.170	22.14	0.164
		1	12	22.32	0.171	22.17	0.165	22.02	0.159
		1	24	22.31	0.170	21.97	0.157	22.08	0.161
		12	0	20.94	0.124	21.06	0.128	20.91	0.123
		12	6	21.16	0.131	20.88	0.122	20.90	0.123
		12	13	21.15	0.130	20.98	0.125	21.04	0.127
		25	0	21.04	0.127	20.95	0.124	20.86	0.122
	64QAM	1	0	20.99	0.126	20.90	0.123	20.99	0.126
		1	12	**21.46**	**0.140**	21.15	0.130	21.17	0.131
		1	24	21.32	0.136	21.14	0.130	21.18	0.131
		12	0	19.89	0.097	19.94	0.099	19.86	0.097
		12	6	20.13	0.103	19.94	0.099	19.96	0.099
		12	13	20.30	0.107	19.98	0.100	19.96	0.099
		25	0	20.14	0.103	19.92	0.098	19.87	0.097
	256QAM	1	0	17.97	0.063	17.90	0.062	17.79	0.060
		1	12	18.06	0.064	**18.25**	**0.067**	17.81	0.060
		1	24	18.19	0.066	18.14	0.065	17.87	0.061
		12	0	18.06	0.064	17.90	0.062	17.88	0.061
		12	6	18.09	0.064	17.97	0.063	17.88	0.061
		12	13	18.09	0.064	17.96	0.063	17.94	0.062
		25	0	18.01	0.063	17.83	0.061	17.88	0.061

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	23.09	0.204	23.05	0.202	22.82	0.191
		1	25	**23.19**	**0.208**	22.92	0.196	22.82	0.191
		1	49	23.03	0.201	23.14	0.206	22.78	0.190
		25	0	22.11	0.163	22.12	0.163	22.04	0.160
		25	12	21.96	0.157	21.98	0.158	22.08	0.161
		25	25	22.03	0.160	22.04	0.160	21.89	0.155
		50	0	21.86	0.153	21.96	0.157	22.09	0.162
	16QAM	1	0	22.13	0.163	22.13	0.163	22.20	0.166
		1	25	22.44	0.175	**22.67**	**0.185**	22.26	0.168
		1	49	22.31	0.170	22.34	0.171	22.33	0.171
		25	0	21.11	0.129	21.15	0.130	20.96	0.125
		25	12	21.29	0.135	21.07	0.128	20.94	0.124
		25	25	21.02	0.126	21.10	0.129	20.92	0.124
		50	0	21.09	0.129	21.04	0.127	20.90	0.123
	64QAM	1	0	21.06	0.128	21.14	0.130	20.81	0.121
		1	25	21.24	0.133	21.17	0.131	21.00	0.126
		1	49	**21.27**	**0.134**	20.98	0.125	21.00	0.126
		25	0	20.16	0.104	20.02	0.100	19.96	0.099
		25	12	20.39	0.109	20.25	0.106	19.99	0.100
		25	25	20.28	0.107	20.06	0.101	19.98	0.100
		50	0	20.18	0.104	20.06	0.101	19.87	0.097
	256QAM	1	0	18.11	0.065	17.97	0.063	18.07	0.064
		1	25	**18.28**	**0.067**	18.08	0.064	18.19	0.066
		1	49	18.27	0.067	18.07	0.064	18.10	0.065
		25	0	18.21	0.066	17.95	0.062	17.90	0.062
		25	12	18.06	0.064	18.08	0.064	17.95	0.062
		25	25	18.21	0.066	18.11	0.065	17.98	0.063
		50	0	18.15	0.065	18.06	0.064	17.94	0.062

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	23.17	0.207	22.93	0.196	22.39	0.173
		1	36	**23.27**	**0.212**	23.07	0.203	22.94	0.197
		1	74	23.07	0.203	22.84	0.192	23.15	0.207
		36	0	21.93	0.156	22.04	0.160	22.09	0.162
		36	18	22.09	0.162	22.11	0.163	22.06	0.161
		36	37	21.97	0.157	21.96	0.157	21.93	0.156
		75	0	22.02	0.159	21.93	0.156	21.90	0.155
	16QAM	1	0	**22.28**	**0.169**	22.12	0.163	21.69	0.148
		1	36	22.16	0.164	22.16	0.164	22.27	0.169
		1	74	22.13	0.163	22.10	0.162	22.10	0.162
		36	0	21.29	0.135	20.96	0.125	21.11	0.129
		36	18	21.18	0.131	20.94	0.124	20.85	0.122
		36	37	21.35	0.136	20.83	0.121	20.97	0.125
		75	0	20.99	0.126	20.85	0.122	20.91	0.123
	64QAM	1	0	21.14	0.130	21.04	0.127	20.29	0.107
		1	36	21.36	0.137	20.99	0.126	21.10	0.129
		1	74	**21.42**	**0.139**	21.10	0.129	21.25	0.133
		36	0	20.23	0.105	20.09	0.102	20.11	0.103
		36	18	20.13	0.103	19.96	0.099	19.85	0.097
		36	37	20.24	0.106	20.06	0.101	20.04	0.101
		75	0	20.15	0.104	19.92	0.098	19.88	0.097
	256QAM	1	0	18.17	0.066	18.05	0.064	17.22	0.053
		1	36	18.15	0.065	18.00	0.063	18.20	0.066
		1	74	18.13	0.065	18.18	0.066	17.96	0.063
		36	0	17.96	0.063	18.08	0.064	17.84	0.061
		36	18	**18.23**	**0.067**	18.01	0.063	17.89	0.062
		36	37	18.04	0.064	18.01	0.063	17.90	0.062
		75	0	18.11	0.065	17.99	0.063	17.69	0.059

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	22.81	0.191	22.84	0.192	22.90	0.195
		1	50	23.02	0.200	22.87	0.194	22.45	0.176
		1	99	**23.28**	**0.213**	22.82	0.191	22.70	0.186
		50	0	21.89	0.155	21.97	0.157	21.94	0.156
		50	25	22.01	0.159	21.95	0.157	21.96	0.157
		50	13	21.84	0.153	21.99	0.158	21.88	0.154
		100	0	21.93	0.156	22.07	0.161	21.80	0.151
	16QAM	1	0	22.11	0.163	22.03	0.160	22.21	0.166
		1	50	**22.28**	**0.169**	22.00	0.158	21.70	0.148
		1	99	22.27	0.169	22.12	0.163	21.86	0.153
		50	0	21.07	0.128	20.95	0.124	21.17	0.131
		50	25	21.04	0.127	20.99	0.126	20.39	0.109
		50	50	21.18	0.131	21.15	0.130	20.89	0.123
		100	0	21.04	0.127	20.95	0.124	20.69	0.117
	64QAM	1	0	21.10	0.129	21.07	0.128	20.51	0.112
		1	50	21.08	0.128	20.96	0.125	20.67	0.117
		1	99	**21.45**	**0.140**	21.05	0.127	21.04	0.127
		50	0	20.13	0.103	19.95	0.099	20.23	0.105
		50	25	20.15	0.104	19.94	0.099	19.51	0.089
		50	50	20.04	0.101	19.92	0.098	20.07	0.102
		100	0	20.04	0.101	19.94	0.099	19.58	0.091
	256QAM	1	0	18.17	0.066	18.02	0.063	18.08	0.064
		1	50	18.27	0.067	18.24	0.067	17.66	0.058
		1	99	**18.31**	**0.068**	18.10	0.065	18.03	0.064
		50	0	18.11	0.065	18.15	0.065	18.05	0.064
		50	25	18.13	0.065	18.17	0.066	17.69	0.059
		50	50	17.99	0.063	18.04	0.064	18.01	0.063
		100	0	18.07	0.064	18.09	0.064	17.96	0.063

LTE Band 26/5_part 22									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26797 (824.7 ㎒)		26915 (836.5 ㎒)		27033 (848.3 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.62	0.183	**22.69**	**0.186**	22.58	0.181
		1	2	22.55	0.180	22.63	0.183	22.59	0.182
		1	5	22.62	0.183	22.61	0.182	22.51	0.178
		3	0	22.62	0.183	22.34	0.171	22.43	0.175
		3	2	22.46	0.176	22.62	0.183	22.60	0.182
		3	3	22.55	0.180	22.57	0.181	22.58	0.181
		6	0	21.59	0.144	21.60	0.145	21.74	0.149
	16QAM	1	0	21.66	0.147	21.83	0.152	21.76	0.150
		1	3	21.76	0.150	**21.87**	**0.154**	21.82	0.152
		1	5	21.81	0.152	21.85	0.153	21.73	0.149
		3	0	21.65	0.146	21.58	0.144	21.76	0.150
		3	2	21.66	0.147	21.82	0.152	21.77	0.150
		3	3	21.76	0.150	21.78	0.151	21.68	0.147
		6	0	20.69	0.117	20.93	0.124	20.81	0.121
	64QAM	1	0	20.63	0.116	**20.82**	**0.121**	20.74	0.119
		1	2	20.78	0.120	20.80	0.120	20.71	0.118
		1	5	20.73	0.118	20.79	0.120	20.62	0.115
		3	0	20.11	0.103	20.36	0.109	20.52	0.113
		3	2	20.12	0.103	20.43	0.110	20.53	0.113
		3	3	20.09	0.102	20.44	0.111	20.43	0.110
		6	0	19.86	0.097	19.80	0.095	20.14	0.103
	256QAM	1	0	17.53	0.057	17.73	0.059	17.58	0.057
		1	2	17.52	0.056	17.76	0.060	17.69	0.059
		1	5	17.62	0.058	17.72	0.059	17.58	0.057
		3	0	17.67	0.058	17.66	0.058	17.68	0.059
		3	2	17.61	0.058	17.65	0.058	17.67	0.058
		3	3	17.61	0.058	17.73	0.059	17.57	0.057
		6	0	17.57	0.057	**17.79**	**0.060**	17.73	0.059

LTE Band 26/5_part 22									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26805 (825.5 ㎒)		26915 (836.5 ㎒)		27025 (847.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	22.54	0.179	22.59	0.182	22.54	0.179
		1	7	22.62	0.183	**22.78**	**0.190**	22.55	0.180
		1	14	22.66	0.185	22.52	0.179	22.60	0.182
		8	0	21.51	0.142	21.53	0.142	21.53	0.142
		8	4	21.53	0.142	21.75	0.150	21.43	0.139
		8	7	21.49	0.141	21.58	0.144	21.52	0.142
		15	0	21.60	0.145	21.66	0.147	21.52	0.142
	16QAM	1	0	21.73	0.149	21.61	0.145	21.91	0.155
		1	7	21.86	0.153	**22.20**	**0.166**	21.90	0.155
		1	14	21.80	0.151	22.04	0.160	21.93	0.156
		8	0	20.61	0.115	20.89	0.123	20.82	0.121
		8	4	20.65	0.116	20.65	0.116	20.58	0.114
		8	7	20.88	0.122	20.64	0.116	20.58	0.114
		15	0	20.56	0.114	20.61	0.115	20.49	0.112
	64QAM	1	0	20.78	0.120	20.65	0.116	20.77	0.119
		1	7	**20.86**	**0.122**	20.82	0.121	20.75	0.119
		1	14	20.77	0.119	20.74	0.119	20.67	0.117
		8	0	19.63	0.092	19.58	0.091	19.49	0.089
		8	4	19.69	0.093	19.67	0.093	19.54	0.090
		8	7	19.71	0.094	19.64	0.092	19.54	0.090
		15	0	19.57	0.091	19.63	0.092	19.58	0.091
	256QAM	1	0	17.57	0.057	17.51	0.056	17.54	0.057
		1	7	17.66	0.058	17.80	0.060	17.65	0.058
		1	14	17.56	0.057	17.63	0.058	17.54	0.057
		8	0	17.55	0.057	17.50	0.056	17.50	0.056
		8	4	17.61	0.058	17.65	0.058	17.49	0.056
		8	7	17.59	0.057	**17.83**	**0.061**	17.50	0.056
		15	0	17.51	0.056	17.64	0.058	17.49	0.056

LTE Band 26/5_part 22									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26815 (826.5 ㎒)		26915 (836.5 ㎒)		27015 (846.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.66	0.185	22.65	0.184	22.54	22.66
		1	12	22.62	0.183	**22.69**	**0.186**	22.67	22.62
		1	24	22.57	0.181	22.58	0.181	22.41	22.57
		12	0	21.88	0.154	21.86	0.153	21.50	21.88
		12	6	21.76	0.150	21.79	0.151	21.55	21.76
		12	13	21.78	0.151	21.68	0.147	21.54	21.78
		25	0	21.55	0.143	21.61	0.145	21.52	21.55
	16QAM	1	0	21.84	0.153	21.93	0.156	21.69	21.84
		1	12	21.84	0.153	21.74	0.149	21.73	21.84
		1	24	21.84	0.153	**22.27**	**0.169**	21.63	21.84
		12	0	20.86	0.122	20.72	0.118	20.57	20.86
		12	6	20.94	0.124	20.87	0.122	20.61	20.94
		12	13	20.86	0.122	20.75	0.119	20.53	20.86
		25	0	20.93	0.124	20.66	0.116	20.61	20.93
	64QAM	1	0	**20.87**	**0.122**	20.70	0.117	20.69	20.87
		1	12	20.75	0.119	20.77	0.119	20.86	20.75
		1	24	20.69	0.117	20.76	0.119	20.60	20.69
		12	0	19.67	0.093	19.63	0.092	19.60	19.67
		12	6	19.76	0.095	19.86	0.097	19.59	19.76
		12	13	19.86	0.097	19.81	0.096	19.60	19.86
		25	0	19.84	0.096	19.66	0.092	19.61	19.84
	256QAM	1	0	17.66	0.058	17.58	0.057	17.62	17.66
		1	12	17.58	0.057	17.72	0.059	**17.75**	**17.58**
		1	24	17.71	0.059	17.71	0.059	17.47	17.71
		12	0	17.52	0.056	17.58	0.057	17.64	17.52
		12	6	17.47	0.056	17.63	0.058	17.54	17.47
		12	13	17.59	0.057	17.56	0.057	17.60	17.59
		25	0	17.51	0.056	17.58	0.057	17.49	17.51

LTE Band 26/5_part 22									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26840 (829.0 ㎒)		26915 (836.5 ㎒)		26990 (844.0 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	22.62	0.183	22.76	0.189	22.46	0.176
		1	25	**22.80**	**0.191**	22.72	0.187	22.75	0.188
		1	49	22.63	0.183	22.72	0.187	22.67	0.185
		25	0	21.51	0.142	21.56	0.143	21.64	0.146
		25	12	21.49	0.141	21.55	0.143	21.71	0.148
		25	25	21.55	0.143	21.63	0.146	21.77	0.150
		50	0	21.60	0.145	21.62	0.145	21.61	0.145
	16QAM	1	0	21.68	0.147	21.74	0.149	21.81	0.152
		1	25	21.89	0.155	21.82	0.152	21.77	0.150
		1	49	**21.94**	**0.156**	21.84	0.153	21.73	0.149
		25	0	20.31	0.107	20.32	0.108	20.69	0.117
		25	12	20.33	0.108	20.28	0.107	20.32	0.108
		25	25	20.48	0.112	20.45	0.111	20.63	0.116
		50	0	20.39	0.109	20.75	0.119	20.69	0.117
	64QAM	1	0	20.60	0.115	20.77	0.119	20.67	0.117
		1	25	**20.86**	**0.122**	20.77	0.119	20.82	0.121
		1	49	20.76	0.119	20.73	0.118	20.81	0.121
		25	0	19.70	0.093	19.59	0.091	19.79	0.095
		25	12	19.74	0.094	19.77	0.095	19.65	0.092
		25	25	19.81	0.096	19.66	0.092	19.75	0.094
		50	0	19.73	0.094	19.64	0.092	19.56	0.090
	256QAM	1	0	17.66	0.058	17.63	0.058	17.72	0.059
		1	25	17.73	0.059	17.79	0.060	17.67	0.058
		1	49	17.50	0.056	**17.95**	**0.062**	17.55	0.057
		25	0	17.55	0.057	17.65	0.058	17.62	0.058
		25	12	17.76	0.060	17.65	0.058	17.67	0.058
		25	25	17.64	0.058	17.61	0.058	17.66	0.058
		50	0	17.59	0.057	17.57	0.057	17.61	0.058

LTE Band 26_part 22									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26865 (831.5 ㎒)				26965 (841.5 ㎒)	
				(dB m)	(W)			(dB m)	(W)
15	QPSK	1	0	**22.81**	**0.191**	-	-	22.63	0.183
		1	36	22.41	0.174	-	-	22.77	0.189
		1	74	22.71	0.187	-	-	22.64	0.184
		36	0	21.45	0.140	-	-	21.55	0.143
		36	18	21.25	0.133	-	-	21.56	0.143
		36	37	21.68	0.147	-	-	21.66	0.146
		75	0	21.49	0.141	-	-	21.58	0.144
	16QAM	1	0	**21.95**	**0.157**	-	-	21.77	0.150
		1	36	21.78	0.151	-	-	21.78	0.151
		1	74	21.80	0.151	-	-	21.82	0.152
		36	0	20.75	0.119	-	-	20.89	0.123
		36	18	20.95	0.124	-	-	20.76	0.119
		36	37	20.61	0.115	-	-	20.70	0.117
		75	0	20.79	0.120	-	-	20.65	0.116
	64QAM	1	0	20.66	0.116	-	-	20.71	0.118
		1	36	20.60	0.115	-	-	**20.75**	**0.119**
		1	74	20.61	0.115	-	-	20.74	0.119
		36	0	19.67	0.093	-	-	19.83	0.096
		36	18	19.72	0.094	-	-	19.79	0.095
		36	37	19.74	0.094	-	-	19.65	0.092
		75	0	19.70	0.093	-	-	19.57	0.091
	256QAM	1	0	17.64	0.058	-	-	17.65	0.058
		1	36	17.67	0.058	-	-	**17.73**	**0.059**
		1	74	17.71	0.059	-	-	17.64	0.058
		36	0	17.64	0.058	-	-	17.62	0.058
		36	18	17.58	0.057	-	-	17.62	0.058
		36	37	17.70	0.059	-	-	17.62	0.058
		75	0	17.58	0.057	-	-	17.54	0.057

LTE Band 26_part 90									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26697 (814.7 ㎒)		26740 (819.0 ㎒)		26783 (823.3 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.49	0.177	22.42	0.175	22.51	0.178
		1	2	22.50	0.178	22.44	0.175	**22.52**	**0.179**
		1	5	22.47	0.177	22.45	0.176	22.44	0.175
		3	0	22.47	0.177	22.51	0.178	22.51	0.178
		3	2	22.40	0.174	22.48	0.177	22.50	0.178
		3	3	22.36	0.172	22.49	0.177	22.38	0.173
		6	0	21.47	0.140	21.47	0.140	21.50	0.141
	16QAM	1	0	21.73	0.149	21.64	0.146	21.80	0.151
		1	2	**21.91**	**0.155**	21.59	0.144	21.65	0.146
		1	5	21.70	0.148	21.53	0.142	21.84	0.153
		3	0	21.53	0.142	21.62	0.145	21.68	0.147
		3	2	21.55	0.143	21.58	0.144	21.71	0.148
		3	3	21.68	0.147	21.56	0.143	21.68	0.147
		6	0	20.50	0.112	20.60	0.115	20.64	0.116
	64QAM	1	0	20.67	0.117	**20.77**	**0.119**	20.63	0.116
		1	2	20.64	0.116	20.62	0.115	20.64	0.116
		1	5	20.65	0.116	20.67	0.117	20.72	0.118
		3	0	20.35	0.108	20.41	0.110	20.36	0.109
		3	2	20.43	0.110	20.42	0.110	20.58	0.114
		3	3	20.39	0.109	20.38	0.109	20.48	0.112
		6	0	19.52	0.090	19.58	0.091	19.66	0.092
	256QAM	1	0	17.52	0.056	17.54	0.057	17.63	0.058
		1	2	17.46	0.056	17.49	0.056	17.54	0.057
		1	5	17.54	0.057	17.30	0.054	17.57	0.057
		3	0	17.56	0.057	**17.75**	**0.060**	17.50	0.056
		3	2	17.49	0.056	17.70	0.059	17.62	0.058
		3	3	17.46	0.056	17.71	0.059	17.59	0.057
		6	0	17.51	0.056	17.54	0.057	17.56	0.057

LTE Band 26_part 90									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26705 (815.5 ㎒)		26740 (819.0 ㎒)		26775 (822.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	22.45	0.176	22.33	0.171	22.39	0.173
		1	7	**22.57**	**0.181**	22.49	0.177	22.52	0.179
		1	14	22.37	0.173	22.43	0.175	22.50	0.178
		8	0	21.59	0.144	21.42	0.139	21.52	0.142
		8	4	21.41	0.138	21.50	0.141	21.53	0.142
		8	7	21.67	0.147	21.49	0.141	21.51	0.142
		15	0	21.45	0.140	21.55	0.143	21.52	0.142
	16QAM	1	0	**21.88**	**0.154**	21.60	0.145	21.54	0.143
		1	7	21.60	0.145	21.65	0.146	21.75	0.150
		1	14	21.65	0.146	21.54	0.143	21.85	0.153
		8	0	20.59	0.115	20.49	0.112	20.59	0.115
		8	4	20.63	0.116	20.57	0.114	20.63	0.116
		8	7	20.78	0.120	20.59	0.115	20.62	0.115
		15	0	20.49	0.112	20.51	0.112	20.61	0.115
	64QAM	1	0	20.59	0.115	20.73	0.118	20.53	0.113
		1	7	20.75	0.119	20.73	0.118	20.78	0.120
		1	14	20.69	0.117	20.50	0.112	**20.85**	**0.122**
		8	0	19.59	0.091	19.50	0.089	19.52	0.090
		8	4	19.73	0.094	19.60	0.091	19.56	0.090
		8	7	19.71	0.094	19.45	0.088	19.53	0.090
		15	0	19.50	0.089	19.59	0.091	19.53	0.090
	256QAM	1	0	17.41	0.055	17.44	0.055	17.65	0.058
		1	7	17.66	0.058	17.65	0.058	17.67	0.058
		1	14	17.52	0.056	17.54	0.057	**17.76**	**0.060**
		8	0	17.50	0.056	17.48	0.056	17.52	0.056
		8	4	17.51	0.056	17.57	0.057	17.56	0.057
		8	7	17.54	0.057	17.54	0.057	17.57	0.057
		15	0	17.48	0.056	17.50	0.056	17.57	0.057

LTE Band 26_part 90									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26715 (816.5 ㎒)		26740 (819.0 ㎒)		26765 (821.5 ㎒)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	**22.73**	**0.187**	22.41	0.174	22.64	0.184
		1	12	22.59	0.182	22.48	0.177	22.54	0.179
		1	24	22.46	0.176	22.54	0.179	22.37	0.173
		12	0	21.45	0.140	21.51	0.142	21.46	0.140
		12	6	21.41	0.138	21.55	0.143	21.62	0.145
		12	13	21.66	0.147	21.53	0.142	21.49	0.141
		25	0	21.56	0.143	21.45	0.140	21.57	0.144
	16QAM	1	0	**21.84**	**0.153**	21.50	0.141	21.65	0.146
		1	12	21.69	0.148	21.81	0.152	21.77	0.150
		1	24	21.77	0.150	21.83	0.152	21.78	0.151
		12	0	20.61	0.115	20.55	0.114	20.47	0.111
		12	6	20.65	0.116	20.75	0.119	20.64	0.116
		12	13	20.58	0.114	20.86	0.122	20.60	0.115
		25	0	20.57	0.114	20.50	0.112	20.57	0.114
	64QAM	1	0	20.52	0.113	20.72	0.118	20.56	0.114
		1	12	**20.95**	**0.124**	20.91	0.123	20.66	0.116
		1	24	20.80	0.120	20.60	0.115	20.77	0.119
		12	0	19.53	0.090	19.55	0.090	19.51	0.089
		12	6	19.72	0.094	19.54	0.090	19.64	0.092
		12	13	19.86	0.097	19.61	0.091	19.56	0.090
		25	0	19.53	0.090	19.48	0.089	19.49	0.089
	256QAM	1	0	17.63	0.058	17.41	0.055	17.56	0.057
		1	12	17.42	0.055	17.64	0.058	17.67	0.058
		1	24	17.41	0.055	**17.74**	**0.059**	17.52	0.056
		12	0	17.41	0.055	17.47	0.056	17.51	0.056
		12	6	17.45	0.056	17.54	0.057	17.53	0.057
		12	13	17.46	0.056	17.62	0.058	17.54	0.057
		25	0	17.52	0.056	17.46	0.056	17.50	0.056

LTE Band 26_part 90									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
						26740 (819.0 ㎒)			
						(dB m)	(W)		
10	QPSK	1	0	-	-	**22.87**	**0.194**	-	-
		1	25	-	-	22.49	0.177	-	-
		1	49	-	-	22.67	0.185	-	-
		25	0	-	-	21.72	0.149	-	-
		25	12	-	-	21.74	0.149	-	-
		25	25	-	-	21.76	0.150	-	-
		50	0	-	-	21.52	0.142	-	-
	16QAM	1	0	-	-	**22.07**	**0.161**	-	-
		1	25	-	-	21.74	0.149	-	-
		1	49	-	-	21.89	0.155	-	-
		25	0	-	-	20.74	0.119	-	-
		25	12	-	-	20.87	0.122	-	-
		25	25	-	-	20.66	0.116	-	-
		50	0	-	-	20.56	0.114	-	-
	64QAM	1	0	-	-	20.49	0.112	-	-
		1	25	-	-	**20.93**	**0.124**	-	-
		1	49	-	-	20.68	0.117	-	-
		25	0	-	-	19.65	0.092	-	-
		25	12	-	-	19.86	0.097	-	-
		25	25	-	-	19.56	0.090	-	-
		50	0	-	-	19.60	0.091	-	-
	256QAM	1	0	-	-	17.60	0.058	-	-
		1	25	-	-	17.61	0.058	-	-
		1	49	-	-	**17.67**	**0.058**	-	-
		25	0	-	-	17.56	0.057	-	-
		25	12	-	-	17.56	0.057	-	-
		25	25	-	-	17.50	0.056	-	-
		50	0	-	-	17.55	0.057	-	-

LTE Band 26_part 90									
Bandwidth (㎒)	Modulation	RB Size	RB Offset	Conducted Output Power					
						26765 (821.5 ㎒)			
						(dB m)	(W)		
15	QPSK	1	0	-	-	22.54	0.179	-	-
		1	36	-	-	22.55	0.180	-	-
		1	74	-	-	**22.70**	**0.186**	-	-
		36	0	-	-	21.52	0.142	-	-
		36	18	-	-	21.50	0.141	-	-
		36	37	-	-	21.43	0.139	-	-
		75	0	-	-	21.43	0.139	-	-
	16QAM	1	0	-	-	21.53	0.142	-	-
		1	36	-	-	21.68	0.147	-	-
		1	74	-	-	**21.79**	**0.151**	-	-
		36	0	-	-	20.65	0.116	-	-
		36	18	-	-	20.61	0.115	-	-
		36	37	-	-	20.66	0.116	-	-
		75	0	-	-	20.67	0.117	-	-
	64QAM	1	0	-	-	20.70	0.117	-	-
		1	36	-	-	**20.77**	**0.119**	-	-
		1	74	-	-	20.71	0.118	-	-
		36	0	-	-	19.62	0.092	-	-
		36	18	-	-	19.62	0.092	-	-
		36	37	-	-	19.58	0.091	-	-
		75	0	-	-	19.51	0.089	-	-
	256QAM	1	0	-	-	**17.67**	**0.058**	-	-
		1	36	-	-	17.60	0.058	-	-
		1	74	-	-	17.54	0.057	-	-
		36	0	-	-	17.52	0.056	-	-
		36	18	-	-	17.60	0.058	-	-
		36	37	-	-	17.56	0.057	-	-
		75	0	-	-	17.55	0.057	-	-

LTE Band 41									
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	22.39	0.173	22.44	0.175	22.73	0.187
		1	12	22.30	0.170	22.51	0.178	22.73	0.187
		1	24	22.39	0.173	22.38	0.173	**22.74**	**0.188**
		12	0	21.36	0.137	21.61	0.145	21.75	0.150
		12	6	21.39	0.138	21.61	0.145	21.79	0.151
		12	13	21.39	0.138	21.54	0.143	21.83	0.152
		25	0	21.37	0.137	21.58	0.144	21.74	0.149
	16QAM	1	0	21.58	0.144	21.54	0.143	**21.83**	**0.152**
		1	12	21.63	0.146	21.53	0.142	21.75	0.150
		1	24	21.37	0.137	21.48	0.141	21.80	0.151
		12	0	20.51	0.112	20.65	0.116	20.85	0.122
		12	6	20.43	0.110	20.64	0.116	20.88	0.122
		12	13	20.50	0.112	20.47	0.111	20.78	0.120
		25	0	20.49	0.112	20.52	0.113	20.81	0.121
	64QAM	1	0	20.49	0.112	20.63	0.116	**20.91**	**0.123**
		1	12	20.53	0.113	20.64	0.116	20.80	0.120
		1	24	20.32	0.108	20.58	0.114	20.86	0.122
		12	0	19.52	0.090	19.65	0.092	19.89	0.097
		12	6	19.53	0.090	19.67	0.093	19.97	0.099
		12	13	19.47	0.089	19.58	0.091	19.94	0.099
		25	0	19.54	0.090	19.61	0.091	19.75	0.094
	256QAM	1	0	17.49	0.056	17.52	0.056	**17.97**	**0.063**
		1	12	17.39	0.055	17.53	0.057	17.77	0.060
		1	24	17.13	0.052	17.47	0.056	17.79	0.060
		12	0	17.54	0.057	17.63	0.058	17.69	0.059
		12	6	17.54	0.057	17.64	0.058	17.85	0.061
		12	13	17.48	0.056	17.61	0.058	17.96	0.063
		25	0	17.50	0.056	17.60	0.058	17.77	0.060

LTE Band 41									
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	22.37	0.173	22.57	0.181	**22.78**	**0.190**
		1	25	22.40	0.174	22.60	0.182	22.74	0.188
		1	49	22.40	0.174	22.45	0.176	22.74	0.188
		25	0	21.87	0.154	21.82	0.152	21.83	0.152
		25	12	21.69	0.148	21.62	0.145	21.84	0.153
		25	25	21.75	0.150	21.63	0.146	21.82	0.152
		50	0	21.54	0.143	21.62	0.145	21.82	0.152
	16QAM	1	0	21.39	0.138	21.54	0.143	**22.00**	**0.158**
		1	25	21.39	0.138	21.58	0.144	21.81	0.152
		1	49	21.43	0.139	21.43	0.139	21.87	0.154
		25	0	20.89	0.123	20.84	0.121	20.83	0.121
		25	12	20.85	0.122	20.79	0.120	20.85	0.122
		25	25	20.77	0.119	20.88	0.122	20.84	0.121
		50	0	20.60	0.115	20.71	0.118	20.82	0.121
	64QAM	1	0	20.44	0.111	20.69	0.117	20.84	0.121
		1	25	20.53	0.113	20.63	0.116	**20.95**	**0.124**
		1	49	20.60	0.115	20.54	0.113	20.87	0.122
		25	0	19.83	0.096	19.88	0.097	19.81	0.096
		25	12	20.16	0.104	19.69	0.093	19.87	0.097
		25	25	20.05	0.101	19.87	0.097	19.82	0.096
		50	0	19.51	0.089	19.59	0.091	19.84	0.096
	256QAM	1	0	17.58	0.057	17.59	0.057	17.81	0.060
		1	25	17.51	0.056	17.63	0.058	**17.91**	**0.062**
		1	49	17.50	0.056	17.47	0.056	17.70	0.059
		25	0	17.53	0.057	17.67	0.058	17.81	0.060
		25	12	17.50	0.056	17.70	0.059	17.83	0.061
		25	25	17.56	0.057	17.70	0.059	17.84	0.061
		50	0	17.58	0.057	17.64	0.058	17.81	0.060

LTE Band 41									
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	22.31	0.170	22.53	0.179	**22.72**	**0.187**
		1	36	22.24	0.167	22.50	0.178	22.66	0.185
		1	74	22.54	0.179	22.41	0.174	22.50	0.178
		36	0	21.73	0.149	21.74	0.149	21.84	0.153
		36	18	21.86	0.153	21.88	0.154	21.79	0.151
		36	37	21.95	0.157	21.79	0.151	21.77	0.150
		75	0	21.50	0.141	21.56	0.143	21.74	0.149
	16QAM	1	0	21.28	0.134	21.59	0.144	21.70	0.148
		1	36	21.39	0.138	21.63	0.146	**21.76**	**0.150**
		1	74	21.41	0.138	21.67	0.147	21.60	0.145
		36	0	20.79	0.120	20.83	0.121	20.83	0.121
		36	18	20.88	0.122	20.95	0.124	20.79	0.120
		36	37	20.78	0.120	21.07	0.128	20.81	0.121
		75	0	20.69	0.117	20.83	0.121	20.75	0.119
	64QAM	1	0	20.48	0.112	20.53	0.113	**20.93**	**0.124**
		1	36	20.55	0.114	20.65	0.116	20.88	0.122
		1	74	20.57	0.114	20.57	0.114	20.65	0.116
		36	0	19.83	0.096	19.86	0.097	19.83	0.096
		36	18	19.85	0.097	19.88	0.097	19.80	0.095
		36	37	19.95	0.099	19.96	0.099	19.79	0.095
		75	0	19.50	0.089	19.53	0.090	19.74	0.094
	256QAM	1	0	17.45	0.056	17.63	0.058	17.67	0.058
		1	36	17.28	0.053	17.54	0.057	17.79	0.060
		1	74	17.61	0.058	17.56	0.057	17.67	0.058
		36	0	17.46	0.056	17.53	0.057	**17.83**	**0.061**
		36	18	17.49	0.056	17.56	0.057	17.75	0.060
		36	37	17.45	0.056	17.53	0.057	17.74	0.059
		75	0	17.52	0.056	17.52	0.056	17.73	0.059

LTE Band 41									
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	22.31	0.170	22.45	0.176	**22.72**	**0.187**
		1	50	22.33	0.171	22.45	0.176	22.69	0.186
		1	99	22.39	0.173	22.54	0.179	22.64	0.184
		50	0	21.85	0.153	21.81	0.152	21.83	0.152
		50	25	22.03	0.160	21.91	0.155	21.80	0.151
		50	13	22.07	0.161	21.78	0.151	21.83	0.152
		100	0	21.84	0.153	21.64	0.146	21.76	0.150
	16QAM	1	0	21.46	0.140	21.56	0.143	21.72	0.149
		1	50	21.38	0.137	21.62	0.145	**21.88**	**0.154**
		1	99	21.43	0.139	21.65	0.146	21.87	0.154
		50	0	20.84	0.121	20.67	0.117	20.86	0.122
		50	25	20.74	0.119	20.86	0.122	20.81	0.121
		50	50	20.95	0.124	20.95	0.124	20.84	0.121
		100	0	20.75	0.119	20.68	0.117	20.78	0.120
	64QAM	1	0	20.54	0.113	20.73	0.118	**20.89**	**0.123**
		1	50	20.59	0.115	20.71	0.118	20.78	0.120
		1	99	20.59	0.115	20.74	0.119	20.78	0.120
		50	0	19.68	0.093	19.76	0.095	19.83	0.096
		50	25	19.85	0.097	19.86	0.097	19.81	0.096
		50	50	19.72	0.094	19.95	0.099	19.83	0.096
		100	0	19.44	0.088	19.69	0.093	19.78	0.095
	256QAM	1	0	17.45	0.056	17.70	0.059	17.76	0.060
		1	50	17.40	0.055	17.70	0.059	17.73	0.059
		1	99	17.43	0.055	17.72	0.059	17.63	0.058
		50	0	17.51	0.056	17.69	0.059	**17.85**	**0.061**
		50	25	17.51	0.056	17.62	0.058	17.75	0.060
		50	50	17.50	0.056	17.66	0.058	17.82	0.061
		100	0	17.49	0.056	17.67	0.058	17.79	0.060

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	22.82	0.191	22.98	0.199	22.58	0.181
		1	3	22.79	0.190	**23.16**	**0.207**	22.74	0.188
		1	5	22.81	0.191	23.15	0.207	22.78	0.190
		3	0	22.68	0.185	22.66	0.185	22.69	0.186
		3	2	22.73	0.187	22.83	0.192	22.54	0.179
		3	3	22.56	0.180	22.71	0.187	22.63	0.183
		6	0	21.87	0.154	21.92	0.156	21.84	0.153
	16QAM	1	0	22.10	0.162	22.21	0.166	21.86	0.153
		1	3	21.94	0.156	**22.33**	**0.171**	21.95	0.157
		1	5	22.13	0.163	22.06	0.161	22.17	0.165
		3	0	21.39	0.138	21.23	0.133	21.40	0.138
		3	2	21.44	0.139	21.29	0.135	21.49	0.141
		3	3	21.23	0.133	21.37	0.137	21.61	0.145
		6	0	21.08	0.128	20.87	0.122	20.55	0.114
	64QAM	1	0	20.99	0.126	21.13	0.130	20.73	0.118
		1	3	21.05	0.127	**21.25**	**0.133**	20.86	0.122
		1	5	20.92	0.124	20.38	0.109	20.46	0.111
		3	0	20.88	0.122	20.75	0.119	20.42	0.110
		3	2	20.82	0.121	20.69	0.117	20.55	0.114
		3	3	20.94	0.124	21.12	0.129	20.57	0.114
		6	0	19.87	0.097	19.84	0.096	19.78	0.095
	256QAM	1	0	17.90	0.062	18.13	0.065	17.49	0.056
		1	3	17.96	0.063	**18.25**	**0.067**	17.43	0.055
		1	5	17.94	0.062	18.11	0.065	17.34	0.054
		3	0	17.78	0.060	18.09	0.064	17.50	0.056
		3	2	17.89	0.062	18.14	0.065	17.35	0.054
		3	3	17.93	0.062	18.05	0.064	17.37	0.055
		6	0	17.76	0.060	18.13	0.065	17.35	0.054

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	22.96	0.198	22.98	0.199	22.33	0.171
		1	7	**23.05**	**0.202**	23.04	0.201	22.28	0.169
		1	14	22.90	0.195	22.95	0.197	22.50	0.178
		8	0	21.85	0.153	22.12	0.163	21.30	0.135
		8	4	21.88	0.154	22.07	0.161	21.24	0.133
		8	7	21.78	0.151	22.02	0.159	21.24	0.133
		15	0	21.83	0.152	22.02	0.159	21.27	0.134
	16QAM	1	0	21.98	0.158	22.09	0.162	21.54	0.143
		1	7	**22.35**	**0.172**	22.19	0.166	21.56	0.143
		1	14	22.21	0.166	22.32	0.171	21.68	0.147
		8	0	21.65	0.146	21.12	0.129	20.83	0.121
		8	4	21.25	0.133	21.07	0.128	20.63	0.116
		8	7	21.90	0.155	21.10	0.129	20.75	0.119
		15	0	20.98	0.125	21.08	0.128	20.34	0.108
	64QAM	1	0	21.23	0.133	21.18	0.131	20.44	0.111
		1	7	21.13	0.130	**21.34**	**0.136**	20.40	0.110
		1	14	21.09	0.129	21.19	0.132	20.51	0.112
		8	0	20.21	0.105	20.13	0.103	19.73	0.094
		8	4	20.16	0.104	20.10	0.102	19.64	0.092
		8	7	20.08	0.102	20.07	0.102	19.77	0.095
		15	0	19.89	0.097	19.98	0.100	19.26	0.084
	256QAM	1	0	17.87	0.061	18.02	0.063	17.48	0.056
		1	7	18.14	0.065	**18.17**	**0.066**	17.42	0.055
		1	14	18.09	0.064	17.91	0.062	17.40	0.055
		8	0	17.95	0.062	18.04	0.064	17.37	0.055
		8	4	17.99	0.063	18.05	0.064	17.33	0.054
		8	7	17.94	0.062	18.07	0.064	17.33	0.054
		15	0	17.86	0.061	18.05	0.064	17.30	0.054

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	22.82	0.191	22.89	0.195	22.32	0.171
		1	12	23.06	0.202	**23.23**	**0.210**	22.39	0.173
		1	24	22.96	0.198	23.21	0.209	22.23	0.167
		12	0	22.05	0.160	22.13	0.163	21.21	0.132
		12	6	22.01	0.159	21.95	0.157	21.32	0.136
		12	13	21.97	0.157	22.20	0.166	21.26	0.134
		25	0	22.18	0.165	22.03	0.160	21.22	0.132
	16QAM	1	0	22.08	0.161	22.35	0.172	21.72	0.149
		1	12	22.25	0.168	**22.36**	**0.172**	21.75	0.150
		1	24	22.33	0.171	22.19	0.166	21.63	0.146
		12	0	21.11	0.129	21.33	0.136	21.19	0.132
		12	6	21.12	0.129	21.12	0.129	20.84	0.121
		12	13	21.31	0.135	21.13	0.130	20.94	0.124
		25	0	21.64	0.146	21.01	0.126	20.22	0.105
	64QAM	1	0	21.29	0.135	21.05	0.127	20.67	0.117
		1	12	**21.69**	**0.148**	21.41	0.138	20.89	0.123
		1	24	21.32	0.136	21.20	0.132	20.94	0.124
		12	0	20.69	0.117	20.69	0.117	20.23	0.105
		12	6	20.65	0.116	20.65	0.116	20.59	0.115
		12	13	20.75	0.119	20.76	0.119	20.31	0.107
		25	0	21.03	0.127	20.02	0.100	19.82	0.096
	256QAM	1	0	17.94	0.062	18.05	0.064	17.29	0.054
		1	12	17.97	0.063	**18.24**	**0.067**	17.40	0.055
		1	24	18.17	0.066	18.04	0.064	17.21	0.053
		12	0	17.98	0.063	17.97	0.063	17.29	0.054
		12	6	17.93	0.062	18.11	0.065	17.35	0.054
		12	13	18.07	0.064	18.10	0.065	17.30	0.054
		25	0	17.87	0.061	18.01	0.063	17.14	0.052

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	23.05	0.202	22.87	0.194	22.63	0.183
		1	25	**23.17**	**0.207**	23.12	0.205	22.52	0.179
		1	49	23.02	0.200	23.13	0.206	22.83	0.192
		25	0	22.05	0.160	22.05	0.160	21.71	0.148
		25	12	22.08	0.161	22.03	0.160	21.86	0.153
		25	25	22.11	0.163	22.04	0.160	21.73	0.149
		50	0	22.08	0.161	22.05	0.160	21.77	0.150
	16QAM	1	0	21.86	0.153	22.31	0.170	21.52	0.142
		1	25	22.19	0.166	22.23	0.167	21.60	0.145
		1	49	21.89	0.155	**22.58**	**0.181**	21.74	0.149
		25	0	21.13	0.130	21.13	0.130	21.21	0.132
		25	12	21.05	0.127	21.16	0.131	21.13	0.130
		25	25	21.08	0.128	21.03	0.127	21.09	0.129
		50	0	21.12	0.129	21.10	0.129	20.37	0.109
	64QAM	1	0	21.10	0.129	21.23	0.133	20.61	0.115
		1	25	21.20	0.132	21.18	0.131	20.60	0.115
		1	49	20.97	0.125	**21.30**	**0.135**	20.73	0.118
		25	0	20.47	0.111	20.48	0.112	20.41	0.110
		25	12	20.35	0.108	20.31	0.107	20.35	0.108
		25	25	20.46	0.111	20.32	0.108	20.33	0.108
		50	0	20.22	0.105	20.23	0.105	20.03	0.101
	256QAM	1	0	18.06	0.064	17.92	0.062	17.36	0.054
		1	25	18.13	0.065	18.23	0.067	17.48	0.056
		1	49	18.06	0.064	**18.33**	**0.068**	17.34	0.054
		25	0	17.99	0.063	18.04	0.064	17.39	0.055
		25	12	18.03	0.064	18.11	0.065	17.34	0.054
		25	25	18.00	0.063	18.09	0.064	17.55	0.057
		50	0	17.96	0.063	18.09	0.064	17.63	0.058

LTE Band 66/4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				132047 (1 717.5 MHz)		132322 (1 745.0 MHz)		132597 (1 772.5 MHz)	
				(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
15	QPSK	1	0	23.12	0.205	23.15	0.207	22.67	0.185
		1	36	23.01	0.200	23.07	0.203	22.29	0.169
		1	74	**23.37**	**0.217**	22.96	0.198	22.20	0.166
		36	0	21.90	0.155	22.17	0.165	21.76	0.150
		36	18	21.89	0.155	22.17	0.165	21.04	0.127
		36	37	22.24	0.167	22.15	0.164	21.91	0.155
		75	0	21.85	0.153	22.10	0.162	21.91	0.155
	16QAM	1	0	21.94	0.156	22.20	0.166	21.74	0.149
		1	36	22.08	0.161	**22.56**	**0.180**	21.28	0.134
		1	74	22.34	0.171	22.08	0.161	21.57	0.144
		36	0	21.23	0.133	21.18	0.131	20.78	0.120
		36	18	21.21	0.132	21.31	0.135	20.83	0.121
		36	37	21.49	0.141	21.45	0.140	20.75	0.119
		75	0	21.26	0.134	21.01	0.126	20.28	0.107
	64QAM	1	0	21.01	0.126	**21.28**	**0.134**	20.46	0.111
		1	36	21.12	0.129	21.09	0.129	20.77	0.119
		1	74	21.08	0.128	21.09	0.129	20.84	0.121
		36	0	20.67	0.117	20.66	0.116	20.41	0.110
		36	18	20.54	0.113	20.55	0.114	20.28	0.107
		36	37	20.67	0.117	20.45	0.111	20.31	0.107
		75	0	20.36	0.109	20.61	0.115	19.81	0.096
	256QAM	1	0	18.08	0.064	**18.34**	**0.068**	17.42	0.055
		1	36	18.03	0.064	18.02	0.063	17.36	0.054
		1	74	18.03	0.064	18.25	0.067	17.30	0.054
		36	0	17.91	0.062	18.13	0.065	17.27	0.053
		36	18	17.91	0.062	17.96	0.063	17.22	0.053
		36	37	18.05	0.064	17.92	0.062	17.31	0.054
		75	0	17.93	0.062	17.98	0.063	17.29	0.054

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	23.06	0.202	**23.63**	**0.231**	22.72	0.187
		1	50	23.34	0.216	23.03	0.201	22.19	0.166
		1	99	23.36	0.217	23.05	0.202	22.88	0.194
		50	0	22.14	0.164	22.03	0.160	21.79	0.151
		50	25	22.09	0.162	22.04	0.160	21.83	0.152
		50	13	22.04	0.160	22.15	0.164	21.68	0.147
		100	0	21.99	0.158	22.75	0.188	21.43	0.139
	16QAM	1	0	21.84	0.153	22.17	0.165	21.93	0.156
		1	50	22.08	0.161	22.20	0.166	21.35	0.136
		1	99	**22.59**	**0.182**	22.33	0.171	21.52	0.142
		50	0	21.15	0.130	21.21	0.132	21.16	0.131
		50	25	20.96	0.125	21.18	0.131	20.98	0.125
		50	50	21.06	0.128	21.10	0.129	20.88	0.122
		100	0	20.89	0.123	20.96	0.125	20.93	0.124
	64QAM	1	0	21.16	0.131	21.24	0.133	20.38	0.109
		1	50	21.26	0.134	21.28	0.134	20.58	0.114
		1	99	21.05	0.127	**21.35**	**0.136**	20.78	0.120
		50	0	20.38	0.109	20.76	0.119	19.85	0.097
		50	25	20.26	0.106	20.01	0.100	19.79	0.095
		50	50	20.31	0.107	20.13	0.103	19.86	0.097
		100	0	20.22	0.105	20.15	0.104	20.11	0.103
	256QAM	1	0	18.04	0.064	17.98	0.063	17.39	0.055
		1	50	18.05	0.064	18.12	0.065	17.65	0.058
		1	99	18.10	0.065	**18.17**	**0.066**	17.57	0.057
		50	0	17.92	0.062	18.00	0.063	17.33	0.054
		50	25	18.04	0.064	18.05	0.064	17.22	0.053
		50	50	17.99	0.063	18.05	0.064	17.28	0.053
		100	0	17.99	0.063	18.06	0.064	17.17	0.052

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	22.43	0.175	22.65	0.184	22.61	0.182
		1	12	**22.89**	**0.195**	22.64	0.184	22.59	0.182
		1	24	22.59	0.182	22.57	0.181	22.66	0.185
		12	0	21.82	0.152	21.61	0.145	21.56	0.143
		12	6	21.75	0.150	21.61	0.145	21.66	0.147
		12	13	21.68	0.147	21.59	0.144	21.83	0.152
		25	0	21.79	0.151	21.60	0.145	21.62	0.145
	16QAM	1	0	21.61	0.145	21.83	0.152	21.87	0.154
		1	12	**22.11**	**0.163**	21.81	0.152	22.09	0.162
		1	24	21.99	0.158	21.84	0.153	21.84	0.153
		12	0	20.82	0.121	20.62	0.115	20.80	0.120
		12	6	20.69	0.117	20.63	0.116	20.85	0.122
		12	13	20.74	0.119	20.64	0.116	21.06	0.128
		25	0	20.80	0.120	20.63	0.116	21.28	0.134
	64QAM	1	0	20.72	0.118	20.78	0.120	20.73	0.118
		1	12	20.82	0.121	20.75	0.119	20.79	0.120
		1	24	**20.91**	**0.123**	20.71	0.118	20.85	0.122
		12	0	19.80	0.095	19.60	0.091	19.46	0.088
		12	6	19.78	0.095	19.60	0.091	19.44	0.088
		12	13	19.56	0.090	19.66	0.092	19.49	0.089
		25	0	19.62	0.092	19.62	0.092	19.46	0.088
	256QAM	1	0	17.47	0.056	17.69	0.059	17.78	0.060
		1	12	17.68	0.059	17.73	0.059	17.75	0.060
		1	24	17.72	0.059	17.79	0.060	17.65	0.058
		12	0	17.73	0.059	17.61	0.058	17.69	0.059
		12	6	17.78	0.060	17.61	0.058	17.93	0.062
		12	13	17.71	0.059	17.60	0.058	**18.00**	**0.063**
		25	0	17.69	0.059	17.53	0.057	17.75	0.060

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	22.62	0.183	22.70	0.186	22.63	0.183
		1	25	22.88	0.194	22.67	0.185	22.78	0.190
		1	49	**22.89**	**0.195**	22.57	0.181	22.79	0.190
		25	0	21.80	0.151	21.74	0.149	21.67	0.147
		25	12	21.78	0.151	21.63	0.146	21.67	0.147
		25	25	21.58	0.144	21.64	0.146	21.75	0.150
		50	0	21.79	0.151	21.68	0.147	21.68	0.147
	16QAM	1	0	21.76	0.150	21.91	0.155	**22.01**	**0.159**
		1	25	21.97	0.157	21.76	0.150	21.99	0.158
		1	49	21.85	0.153	21.69	0.148	21.92	0.156
		25	0	20.84	0.121	20.78	0.120	20.75	0.119
		25	12	20.82	0.121	20.70	0.117	20.73	0.118
		25	25	20.80	0.120	20.59	0.115	20.68	0.117
		50	0	20.71	0.118	20.66	0.116	20.63	0.116
	64QAM	1	0	20.80	0.120	20.89	0.123	20.86	0.122
		1	25	20.98	0.125	20.72	0.118	20.93	0.124
		1	49	**21.02**	**0.126**	20.72	0.118	20.80	0.120
		25	0	19.45	0.088	19.72	0.094	19.66	0.092
		25	12	19.32	0.086	19.75	0.094	19.77	0.095
		25	25	19.27	0.085	19.63	0.092	19.65	0.092
		50	0	19.23	0.084	19.73	0.094	19.68	0.093
	256QAM	1	0	17.77	0.060	18.00	0.063	17.75	0.060
		1	25	17.91	0.062	17.84	0.061	**18.04**	**0.064**
		1	49	17.92	0.062	17.43	0.055	17.93	0.062
		25	0	17.76	0.060	17.69	0.059	17.71	0.059
		25	12	17.90	0.062	17.63	0.058	17.72	0.059
		25	25	17.79	0.060	17.55	0.057	17.69	0.059
		50	0	17.67	0.058	17.72	0.059	17.71	0.059

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	22.84	0.192	22.77	0.189	22.63	0.183
		1	36	22.94	0.197	**23.09**	**0.204**	22.55	0.180
		1	74	22.79	0.190	22.58	0.181	22.76	0.189
		36	0	21.77	0.150	21.70	0.148	21.63	0.146
		36	18	21.83	0.152	21.71	0.148	21.54	0.143
		36	37	21.74	0.149	21.58	0.144	21.65	0.146
		75	0	21.80	0.151	21.66	0.147	21.64	0.146
	16QAM	1	0	22.02	0.159	22.02	0.159	21.76	0.150
		1	36	**22.11**	**0.163**	22.04	0.160	21.95	0.157
		1	74	21.96	0.157	21.62	0.145	21.93	0.156
		36	0	20.77	0.119	20.73	0.118	20.67	0.117
		36	18	20.78	0.120	20.78	0.120	20.59	0.115
		36	37	20.86	0.122	20.59	0.115	20.64	0.116
		75	0	20.77	0.119	20.61	0.115	20.64	0.116
	64QAM	1	0	20.88	0.122	**21.00**	**0.126**	20.90	0.123
		1	36	20.74	0.119	20.91	0.123	20.66	0.116
		1	74	20.77	0.119	20.80	0.120	20.64	0.116
		36	0	19.34	0.086	19.85	0.097	19.59	0.091
		36	18	19.37	0.086	19.70	0.093	19.62	0.092
		36	37	19.26	0.084	19.63	0.092	19.68	0.093
		75	0	19.71	0.094	19.68	0.093	19.56	0.090
	256QAM	1	0	17.82	0.061	17.84	0.061	17.71	0.059
		1	36	17.80	0.060	17.64	0.058	17.60	0.058
		1	74	17.86	0.061	17.75	0.060	17.52	0.056
		36	0	17.77	0.060	17.83	0.061	17.67	0.058
		36	18	17.63	0.058	17.66	0.058	17.62	0.058
		36	37	17.82	0.061	17.60	0.058	17.68	0.059
		75	0	**17.90**	**0.062**	17.67	0.058	17.58	0.057

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	22.98	0.199	22.85	0.193	**23.00**	**0.200**
		1	50	22.94	0.197	22.84	0.192	22.73	0.187
		1	99	22.84	0.192	22.59	0.182	22.73	0.187
		50	0	21.76	0.150	21.86	0.153	21.60	0.145
		50	25	21.79	0.151	21.76	0.150	21.63	0.146
		50	13	21.76	0.150	21.72	0.149	21.63	0.146
		100	0	21.87	0.154	21.76	0.150	21.69	0.148
	16QAM	1	0	21.99	0.158	21.99	0.158	21.80	0.151
		1	50	21.96	0.157	21.91	0.155	21.90	0.155
		1	99	**22.08**	**0.161**	21.78	0.151	21.84	0.153
		50	0	20.79	0.120	20.75	0.119	20.58	0.114
		50	25	20.97	0.125	20.84	0.121	20.63	0.116
		50	50	20.77	0.119	20.74	0.119	20.60	0.115
		100	0	20.89	0.123	20.71	0.118	20.67	0.117
	64QAM	1	0	20.93	0.124	21.10	0.129	20.87	0.122
		1	50	21.05	0.127	20.89	0.123	20.87	0.122
		1	99	**21.20**	**0.132**	20.73	0.118	20.84	0.121
		50	0	19.36	0.086	19.84	0.096	19.62	0.092
		50	25	19.43	0.088	19.80	0.095	19.67	0.093
		50	50	19.23	0.084	19.68	0.093	19.67	0.093
		100	0	19.74	0.094	19.76	0.095	19.63	0.092
	256QAM	1	0	17.86	0.061	17.93	0.062	17.75	0.060
		1	50	**17.93**	**0.062**	17.83	0.061	17.73	0.059
		1	99	17.90	0.062	17.72	0.059	17.73	0.059
		50	0	17.88	0.061	17.76	0.060	17.67	0.058
		50	25	17.75	0.060	17.73	0.059	17.62	0.058
		50	50	17.85	0.061	17.65	0.058	17.64	0.058
		100	0	17.91	0.062	17.71	0.059	17.65	0.058

4. Occupied Bandwidth

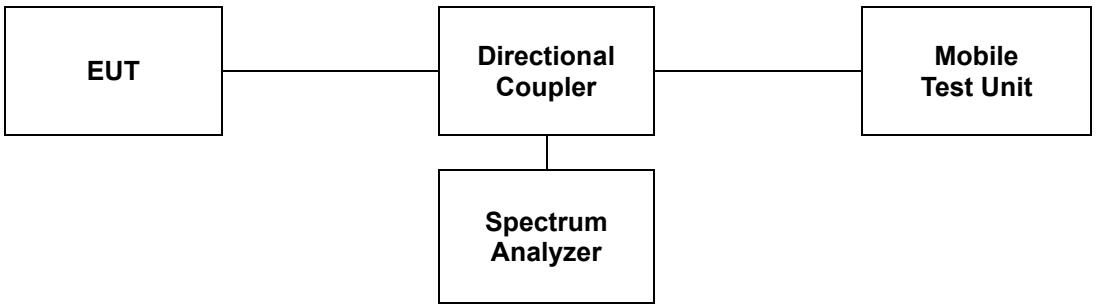
4.1. Limit

CFR 47, Section FCC §2.1049.

4.2. Test Procedure

The test follows section 5.4.4 of ANSI C63.26-2015.

a. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation. products including the emission skirts (typically a span of 1.5 × OBW is sufficient).
b. The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1 % to 5 % of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.
c. Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
d. Set the detection mode to peak, and the trace mode to max-hold.
e. If the instrument does not have a 99 % OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5 % of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5 % of the total is reached and record that frequency as the upper OBW frequency. The 99 % power OBW can be determined by computing the difference these two frequencies.
f. The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).



4.3 Test Results

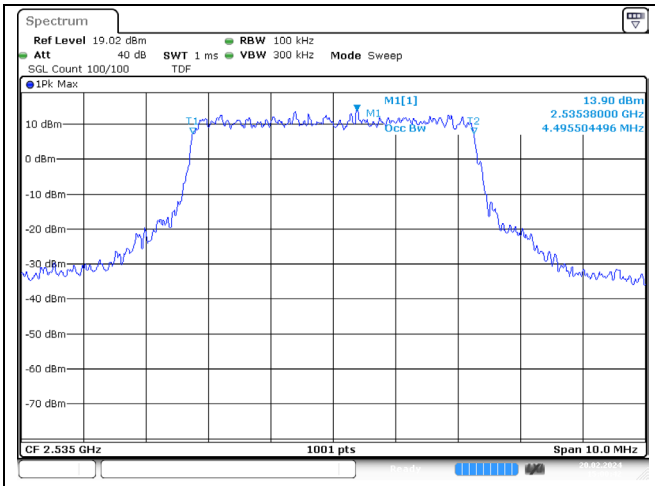
Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

Band	Bandwidth (㎒)	Frequency (㎒)	Occupied Bandwidth (㎒)	
			QPSK	16QAM
7	5	2 535.0	4.496	4.486
	10		8.951	8.951
	15		13.457	13.487
	20		17.902	17.942
12/17	1.4	707.5	1.103	1.106
	3		2.673	2.685
	5		4.505	4.496
	10		8.931	8.931
13	5	782.0	4.515	4.515
	10		8.931	8.931
14	5	793.0	4.496	4.486
	10		8.931	8.931
25/2	1.4	1 882.5	1.088	1.100
	3		2.679	2.685
	5		4.505	4.505
	10		8.951	8.951
	15		13.487	13.487
	20		17.982	17.942
26/5 Part 22	1.4	836.5	1.097	1.088
	3		2.697	2.685
	5		4.515	4.496
	10		8.951	8.951
	15	831.5	13.487	13.516
26 Part 90	1.4	819.0	1.100	1.091
	3		2.679	2.691
	5		4.496	4.505
	10		8.911	8.931
	15	821.5	13.487	13.457
41	5	2 593.0	4.515	4.486
	10		8.971	8.911
	15		13.516	13.516
	20		17.902	17.942

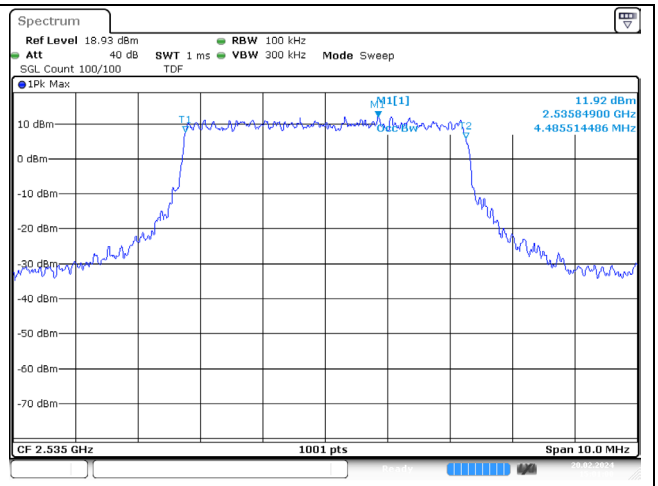
Band	Bandwidth (㎒)	Frequency (㎒)	Occupied Bandwidth (㎒)	
			QPSK	16QAM
66/4	1.4	1 745.0	1.085	1.103
	3		2.673	2.685
	5		4.496	4.496
	10		8.951	8.911
	15		13.457	13.457
	20		17.822	17.902
71	5	680.5	4.505	4.505
	10		8.931	8.931
	15		13.457	13.457
	20		17.982	17.902

- Test plots

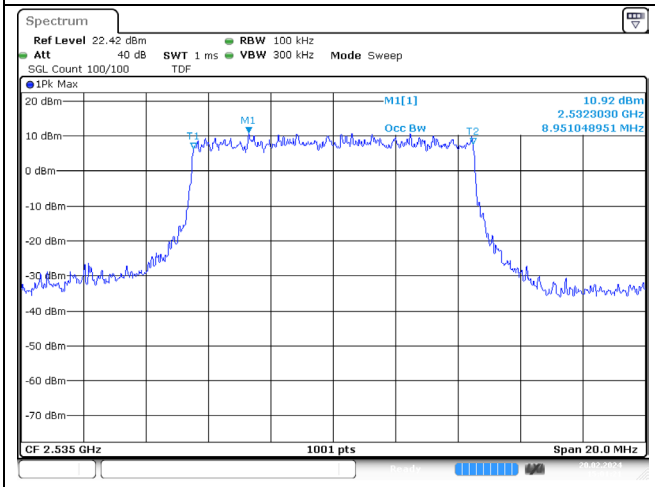
LTE band 7



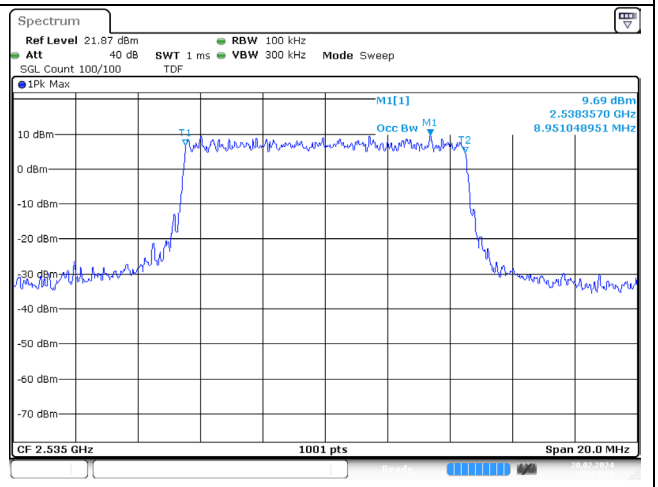
5 ㎒ QPSK Middle Channel - Full RB



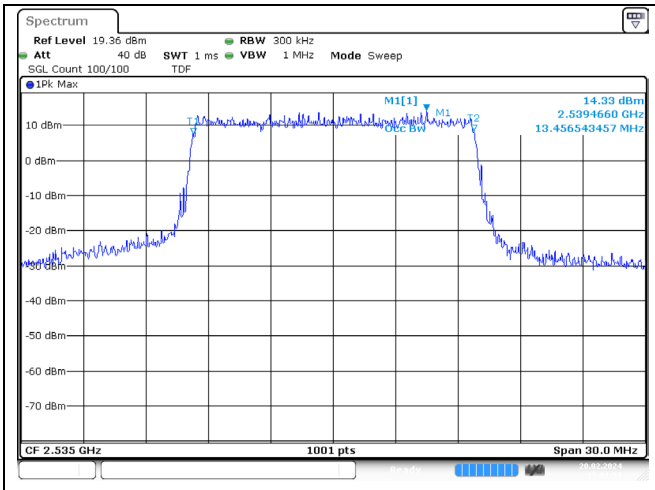
5 ㎒ 16QAM Middle Channel - Full RB



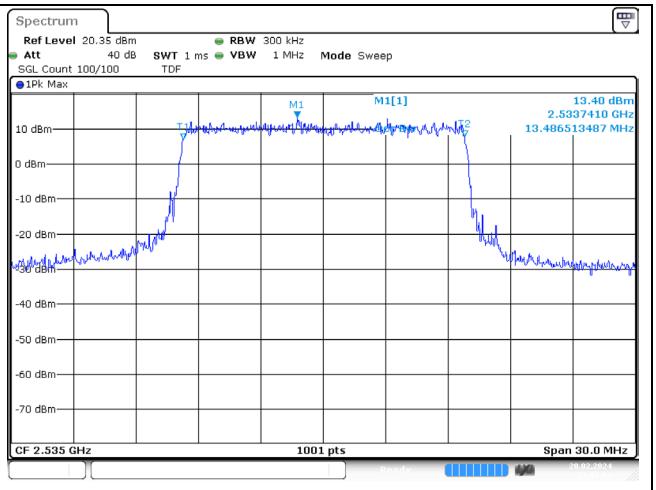
10 ㎒ QPSK Middle Channel - Full RB



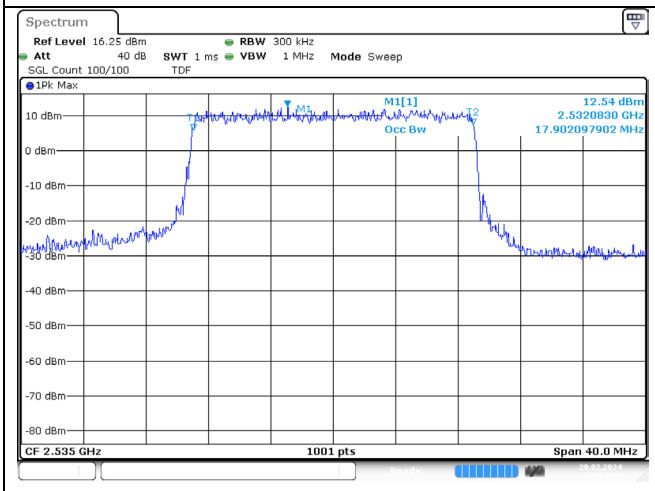
10 ㎒ 16QAM Middle Channel - Full RB



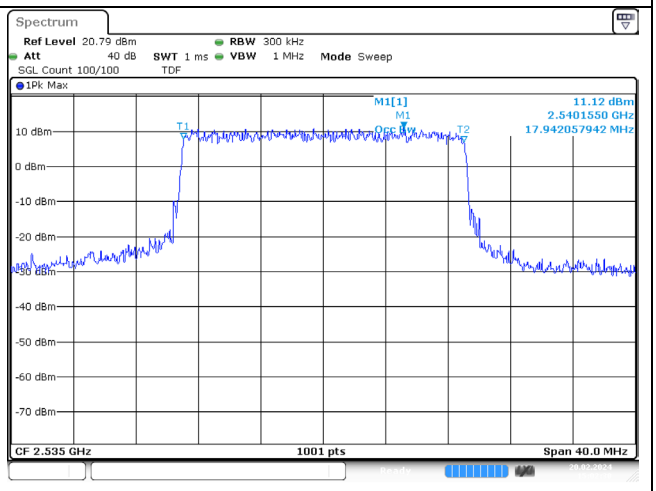
15 ㎒ QPSK Middle Channel - Full RB



15 ㎒ 16QAM Middle Channel - Full RB

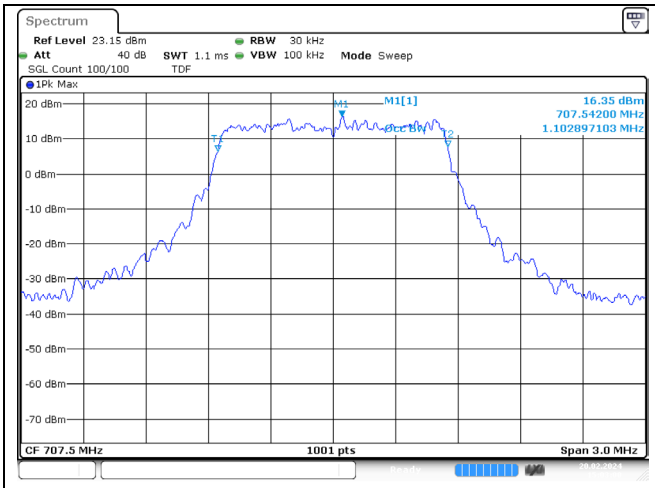


20 ㎒ QPSK Middle Channel - Full RB

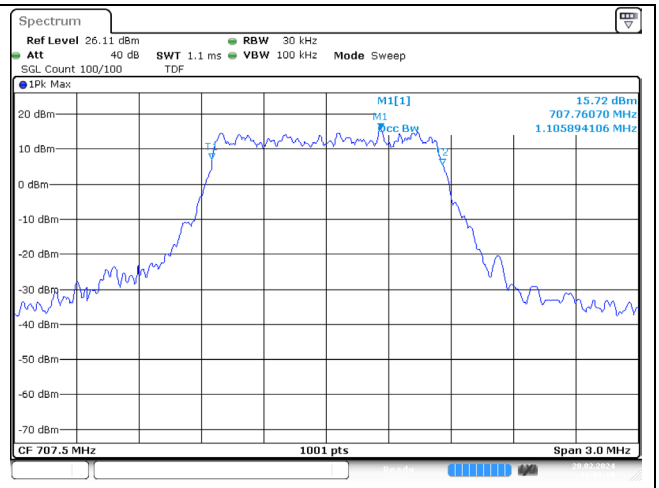


20 ㎒ 16QAM Middle Channel - Full RB

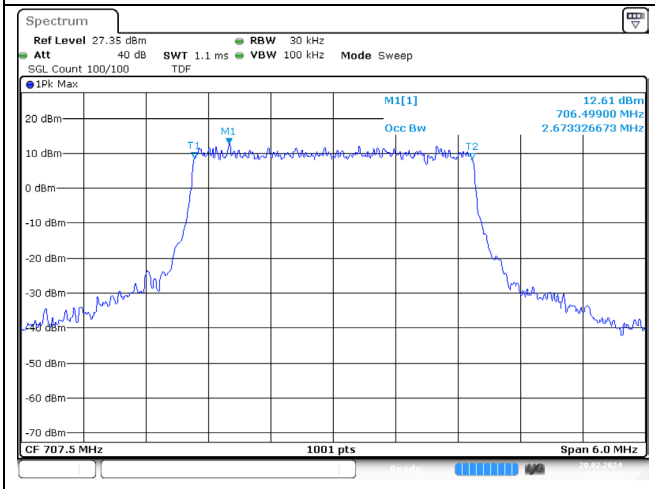
LTE band 12/17



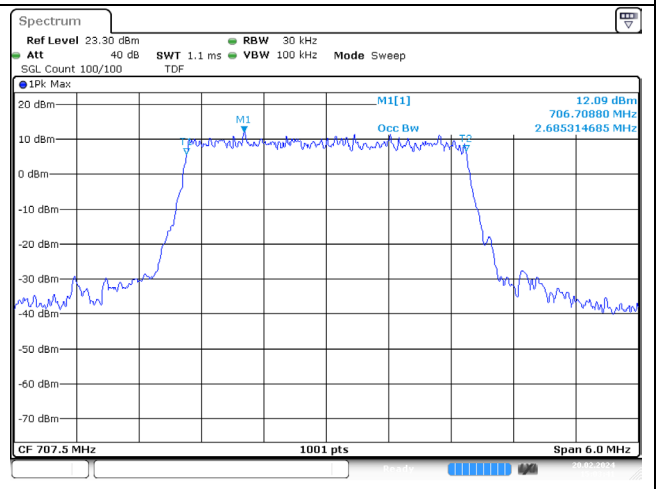
1.4 ㎒ QPSK Middle Channel - Full RB



1.4 ㎒ 16QAM Middle Channel - Full RB



3 ㎒ QPSK Middle Channel - Full RB



3 ㎒ 16QAM Middle Channel - Full RB