

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 S

FCC ID: BEJTL1R22NR

Equipment Under Test : Telematics
Model Name : TL1R22NR
Variant Model Name(s) : Refer to the page 3
Applicant : LG Electronics USA
Manufacturer : LG Electronics Inc.
Date of Receipt : 2022.11.04
Date of Test(s) : 2022.11.04 ~ 2022.12.26
Date of Issue : 2022.12.26

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

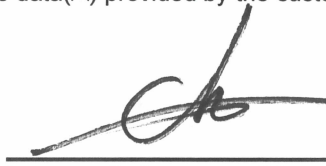
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- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
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- 4) The data marked ※ in this report was provided by the customer and may affect the validity of the test results.

We are responsible for all the information of this test report except for the data(※) provided by the customer.

Tested by:


Murphy Kim

Technical
Manager:


Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory



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1. General Information

1.1. Testing Laboratory

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

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1.2. Details of Applicant

Applicant : LG Electronics USA
 Address : 111 Sylvan Avenue, North Building, Englewood Cliffs, New Jersey, United States, 07632
 Contact Person : Kim, Sung-soo
 Phone No. : +1 201 266 2215

1.3. Details of Manufacturer

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

1.4. Description of EUT

Kind of Product	Telematics
Model Name	TL1R22NR
Variant Model Names	TL1R22NE
Serial Number	352162110229030
Power Supply	DC 12.5 V
Rated Power	LTE Band 2, 4, 5, 7, 12, 17, 26, 41: 23 dB m
Frequency Range	LTE Band 2: 1 850 MHz ~ 1 910 MHz LTE Band 4: 1 710 MHz ~ 1 755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2 500 MHz ~ 2 570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 26(Part 90): 814 MHz ~ 824 MHz LTE Band 26(Part 22): 824 MHz ~ 849 MHz LTE Band 41: 2 496 MHz ~ 2 690 MHz
Modulation Technique	QPSK, 16QAM
Antenna Type	External Antenna
Antenna Gain*	699 MHz ~ 716 MHz: -0.2 dB i 704 MHz ~ 716 MHz: -0.2 dB i 814 MHz ~ 824 MHz: -0.3 dB i 824 MHz ~ 849 MHz: -0.6 dB i 1 710 MHz ~ 1 755 MHz: 2 dB i 1 850 MHz ~ 1 910 MHz: 2.8 dB i 2 500 MHz ~ 2 570 MHz: 5.0 dB i 2 496 MHz ~ 2 690 MHz: 5.0 dB i
H/W Version	Rev.D
S/W Version	v001.039.026

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Signal Generator	R&S	SMA100B	106887	Oct. 13, 2022	Annual	Oct. 13, 2023
Signal Generator	R&S	SMBV100A	255834	May 25, 2022	Annual	May 25, 2023
Spectrum Analyzer	R&S	FSV30	103210	Dec. 07, 2022	Annual	Dec. 07, 2023
Spectrum Analyzer	Agilent	N9020A	MY53421758	Aug. 26, 2022	Annual	Aug. 26, 2023
Mobile Test Unit	R&S	CMW 500	144034	Feb. 21, 2022	Annual	Feb. 21, 2023
Communication Analyzer	Anritsu	MT8821C	6262192291	Oct. 11, 2022	Annual	Oct. 11, 2023
Power Meter	Anritsu	ML2495A	1223004	Nov. 29, 2022	Annual	Nov. 29, 2023
Power Sensor	Anritsu	MA2411B	1207272	May 27, 2022	Annual	May 27, 2023
Power Splitter	Weinschel	1534	499	May 31, 2022	Annual	May 31, 2023
Temperature Chamber	ESPEC CORP.	SH-662	15004184	Jun. 02, 2022	Annual	Jun. 02, 2023
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-2	Feb. 10, 2022	Annual	Feb. 10, 2023
High Pass Filter	Wainwright Instrument GmbH	WHKX10-900-1000-18000-40SS	7	Mar. 04, 2022	Annual	Mar. 04, 2023
High Pass Filter	Wainwright Instrument GmbH	WHKX2.2/12.75G-10SS	8	Mar. 04, 2022	Annual	Mar. 04, 2023
High Pass Filter	Wainwright Instrument GmbH	WHKX3.0/18G-6SS	21	Jun. 09, 2022	Annual	Jun. 09, 2023
High Pass Filter	Wainwright Instrument GmbH	WHNX7.5/26.5G-6SS	11	Oct. 24, 2022	Annual	Oct. 24, 2023
BRIDGE COUPLER	MARKI MICROWAVE INC	CBR16-0012	1542	May 06, 2022	Annual	May 06, 2023
Directional Coupler	KRYTAR	152613	122660	Jul. 06, 2022	Annual	Jul. 06, 2023
DC Power Supply	Agilent	U8002A	MY49030063	Jan. 25, 2022	Annual	Jan. 25, 2023
Preamplifier	H.P.	8447F	2944A03909	Aug. 04, 2022	Annual	Aug. 04, 2023
Preamplifier	R&S	SCU 18	10117	Jun. 13, 2022	Annual	Jun. 13, 2023
Preamplifier	TESTEK	TK-PA1840H	130016	Jan. 10, 2022	Annual	Jan. 10, 2023
Test Receiver	R&S	ESU26	100368	Jan. 18, 2022	Annual	Jan. 18, 2023
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 23, 2021	Biennial	Aug. 23, 2023
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB9163	01126	Feb. 07, 2022	Annual	Feb. 07, 2023
Horn Antenna	R&S	HF906	100326	Feb. 18, 2022	Annual	Feb. 18, 2023
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9170	9170-540	Nov. 30, 2022	Annual	Nov. 30, 2023
Antenna Master	Innco systems GmbH	MA4640-XP-ET	MA4640/536/383 30516/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	CO3000/963/383 30516/L	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L x W x H (9.6 m x 6.4 m x 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Coaxial Cable	RFONE	MWX221-NMSNMS (4 m)	J1023142	Oct. 04, 2022	Semi-Annual	Apr. 04, 2023
Coaxial Cable	Qualwave Inc.	QA500-18-NN-10 (10 m)	22200114	Oct. 04, 2022	Semi-Annual	Apr. 04, 2023
Coaxial Cable	RADIALL	TESTPRO 3	182287	Aug. 18, 2022	Semi-Annual	Feb. 18, 2023
Coaxial Cable	RADIALL	TESTPRO 3	182288	Aug. 18, 2022	Semi-Annual	Feb. 18, 2023
Coaxial Cable	RADIALL	TESTPRO 3	182291	Aug. 18, 2022	Semi-Annual	Feb. 18, 2023

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(s)	Test Item(s)	Result
§22.913(a)(5) §24.232(c) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.635(b)	E.R.P. / E.I.R.P.	Complied
§22.917(a) §24.238(a) §27.53(g) §27.53(h)(1) §27.53(m)(4) §90.691(a)	Spurious Radiated 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(g) §27.53(h)(1) §27.53(m)(4) §90.691(a)	Spurious Emission at Antenna Terminal	Complied
§22.917(a) §24.238(a) §27.53(g) §27.53(h)(1) §27.53(m)(4) §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 (dB) = Directional Coupler (dB) + Cable loss (dB)

1.7.2. Radiation test

- E.I.R.P. (dB m) = Measured level (dB μ V) + Antenna factor (dB/m) + Cable loss (dB) + 20 Log D - 104.5;
where D is the measurement distance in meters.
- E.R.P. (dB m) = E.I.R.P. (dB m) - 2.15 (dB)

1.8. Device Capabilities

This device contains the following capabilities;

LTE Band 17 (704 MHz ~ 716 MHz) is covered by LTE Band 12 (699 MHz ~ 716 MHz) 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 MHz ~ 849 MHz) is covered by LTE Band 26 (824 MHz ~ 849 MHz) 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 and 16QAM modulations. However, the spurious radiated emission and spurious at antenna terminal were only performed on bandwidth and RB offset (with RB size 1) with the highest conducted power in QPSK.

The peak to average ratio were tested only 16QAM modulation as worst case.

1.10. Measurement Configuration

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

*B17 is not supported 1.4M and 3M bandwidth.

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation		RB #		
		Low	Mid	High	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
Band edge	2	V	-	V	V	V	V	V	V	V	V	V	V	-	V
	4	V	-	V	V	V	V	V	V	V	V	V	V	-	V
	7	V	-	V			V	V	V	V	V	V	V	-	V
	*12/17	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
Spurious emission	2	V	V	V	-	-	-	-	-	V	V	-	V	-	-
	4	V	V	V	-	-	-	-	-	V	V	-	V	-	-
	7	V	V	V			-	-	-	V	V	-	V	-	-
	*12/17	V	V	V	-	V	-	-			V	-	V	-	-
	26/5 Part22	V	V	V	-	-	-	-	V		V	-	V	-	-
	26 Part90	V	V	V	-	-	-	-	V		V	-	V	-	-
	41	V	V	V			-	-	-	V	V	-	V	-	-

*B17 is not supported 1.4M and 3M bandwidth.

1.11. Measurement Uncertainty

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

Parameter	Uncertainty	
RF Output Power	0.32 dB	
Occupied Bandwidth	3.90 kHz	
Conducted Spurious Emissions	0.61 dB	
Peak to Average Ratio	0.60 dB	
Frequency Stability	5.97 kHz	
Radiated Emission, 9 kHz to 30 MHz	H	3.40 dB
	V	3.40 dB
Radiated Emission, below 1 GHz	H	4.50 dB
	V	5.10 dB
Radiated Emission, above 1 GHz	H	3.70 dB
	V	3.90 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-RTL003660	2022.12.26	Initial

1.14. Emission Designator and Max Power

Band	Band width (MHz)	Modulation	Low Freq. (MHz)	Upper Freq. (MHz)	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		
2	1.4	QPSK	1 850.7	1 909.3	22.47	2.8	25.27	0.337	1M10G7D		
		16QAM			21.72		24.52	0.283	1M09D7D		
	3	QPSK	1 851.5	1 908.5	22.55		25.35	0.343	2M70G7D		
		16QAM			21.84		24.64	0.291	2M69D7D		
	5	QPSK	1 852.5	1 907.5	22.48		25.28	0.337	4M49G7D		
		16QAM			21.79		24.59	0.288	4M49D7D		
	10	QPSK	1 855	1 905	22.58		25.38	0.345	8M95G7D		
		16QAM			21.83		24.63	0.290	8M99D7D		
	15	QPSK	1 857.5	1 902.5	22.57		25.37	0.344	13M5G7D		
		16QAM			21.88		24.68	0.294	13M5D7D		
	20	QPSK	1 860	1 900	22.63		25.43	0.349	17M9G7D		
		16QAM			22.03		24.83	0.304	18M0D7D		
	4	1.4	QPSK	1 710.7	1 754.3		22.65	2.0	24.65	0.292	1M09G7D
			16QAM				21.98		23.98	0.250	1M09D7D
3		QPSK	1 711.5	1 753.5	22.71	24.71	0.296		2M69G7D		
		16QAM			21.99	23.99	0.251		2M69D7D		
5		QPSK	1 712.5	1 752.5	22.76	24.76	0.299		4M51G7D		
		16QAM			22.14	24.14	0.259		4M49D7D		
10		QPSK	1 715	1 750	22.82	24.82	0.303		8M99G7D		
		16QAM			22.22	24.22	0.264		8M95D7D		
15		QPSK	1 717.5	1 747.5	22.84	24.84	0.305		13M5G7D		
		16QAM			22.13	24.13	0.259		13M5D7D		
20		QPSK	1 720	1 745	22.84	24.84	0.305		17M8G7D		
		16QAM			22.13	24.13	0.259		18M0D7D		
7		5	QPSK	2 502.5	2 567.5	22.77	5.0		27.77	0.598	4M49G7D
			16QAM			22.09			27.09	0.512	4M51D7D
	10	QPSK	2 505	2 565	22.73	27.73		0.593	8M95G7D		
		16QAM			22.17	27.17		0.521	8M92D7D		
	15	QPSK	2 507.5	2 562.5	22.82	27.82		0.605	13M5G7D		
		16QAM			22.24	27.24		0.530	13M5D7D		
	20	QPSK	2 510	2 560	22.91	27.91		0.618	17M8G7D		
		16QAM			22.09	27.09		0.512	17M9D7D		
	12/17	1.4	QPSK	699.7	715.3	22.98		-0.2	20.63	0.116	1M09G7D
			16QAM			22.01			19.66	0.092	1M09D7D
3		QPSK	700.5	714.5	23.02	20.67	0.117		2M69G7D		
		16QAM			22.00	19.65	0.092		2M69D7D		
5		QPSK	701.5	713.5	23.01	20.66	0.116		4M49G7D		
		16QAM			22.01	19.66	0.092		4M49D7D		
10		QPSK	704	711	23.00	20.65	0.116		8M95G7D		
		16QAM			22.00	19.65	0.092		8M95D7D		

Band	Band width (MHz)	Modulation	Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Worst 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	23.05	-0.6	20.30	0.107	1M10G7D		
		16QAM			22.12		19.37	0.086	1M10D7D		
	3	QPSK	825.5	847.5	23.14		20.39	0.109	2M69G7D		
		16QAM			22.46		19.71	0.094	2M69D7D		
	5	QPSK	826.5	846.5	23.24		20.49	0.112	4M51G7D		
		16QAM			22.44		19.69	0.093	4M49D7D		
	10	QPSK	829	844	23.25		20.50	0.112	8M92G7D		
		16QAM			22.50		19.75	0.094	8M92D7D		
	26 Part 22	15	QPSK	831.5	841.5		23.34	20.59	0.115	13M5G7D	
			16QAM				22.46	19.71	0.094	13M5D7D	
26 Part 90	1.4	QPSK	814.7	823.3	23.07	-0.3	20.62	0.115	1M10G7D		
		16QAM			22.43		19.98	0.100	1M09D7D		
	3	QPSK	815.5	822.5	23.12		20.67	0.117	2M69G7D		
		16QAM			22.51		20.06	0.101	2M69D7D		
	5	QPSK	816.5	821.5	23.09		20.64	0.116	4M51G7D		
		16QAM			22.07		19.62	0.092	4M49D7D		
	10	QPSK	819		22.94		20.49	0.112	8M92G7D		
		16QAM	819		22.10		19.65	0.092	8M95D7D		
	15	QPSK	821.5		23.13		20.68	0.117	13M4G7D		
		16QAM	821.5		22.43		19.98	0.100	13M4D7D		
	41	5	QPSK	2 498.5	2 687.5		21.83	5.0	26.83	0.482	4M49G7D
			16QAM				20.90		25.90	0.389	4M51D7D
10		QPSK	2 501	2 685	21.91	26.91	0.491		8M92G7D		
		16QAM			21.36	26.36	0.433		8M92D7D		
15		QPSK	2 503.5	2 682.5	21.88	26.88	0.488		13M5G7D		
		16QAM			20.95	25.95	0.394		13M5D7D		
20		QPSK	2 506	2 680	22.07	27.07	0.509		17M9G7D		
		16QAM			20.96	25.96	0.394		17M9D7D		

1.15. Information of Variant Model

Model Name		Description
Basic Model	TL1R22NR	Fully mounted module on hardware.
Variant Model	TL1R22NE	Band 21 duplexer, PA are removed.

- Supported Cellular Band

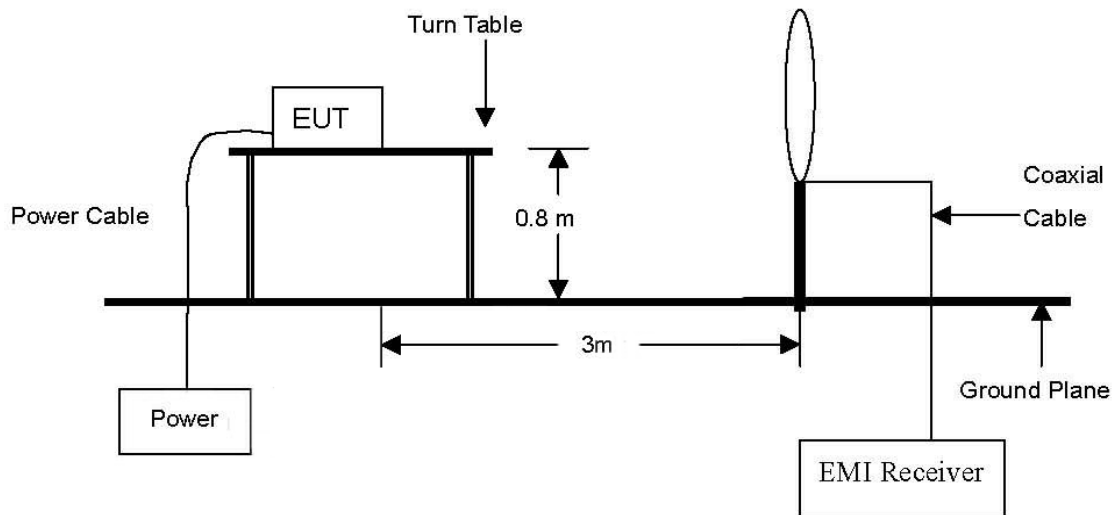
MODEL	GSM	WCDMA	LTE
TL1R22NR	GSM850, PCS1900	B2, B4, B5	B2, B4, B5, B7, B12, B17, B26, B41
TL1R22NE	N/A	B2, B4, B5	B2, B4, B5, B7, B12, B17

*Difference between two models does not affect bands that can be used in the US.

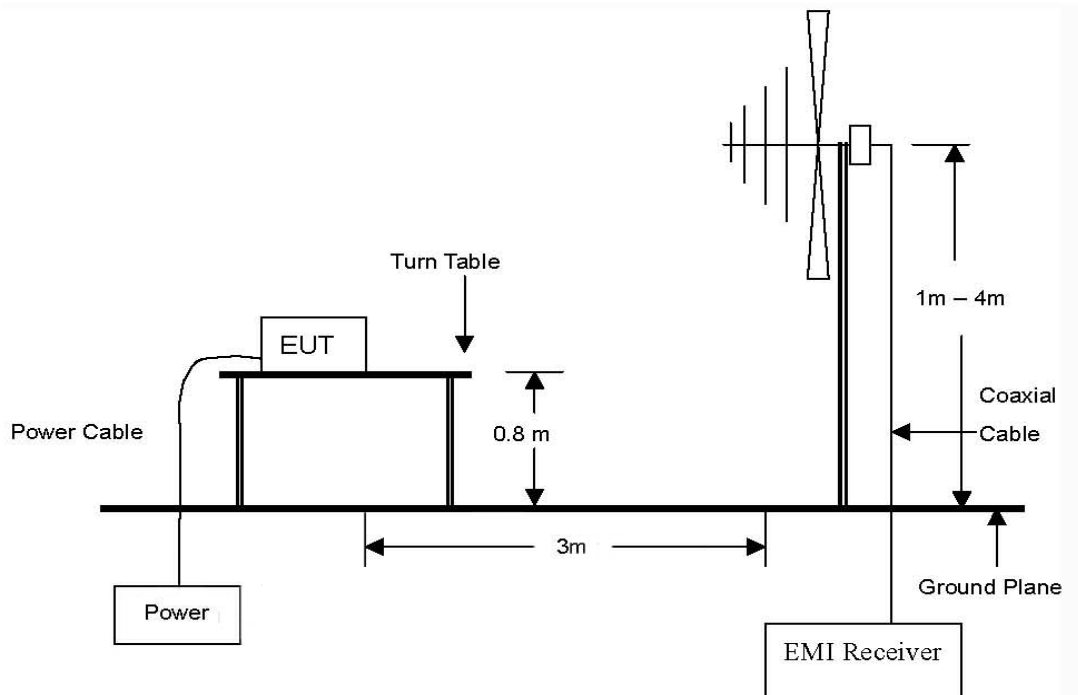
2. E.R.P. / E.I.R.P. & Spurious Radiated Emission

2.1. Test setup

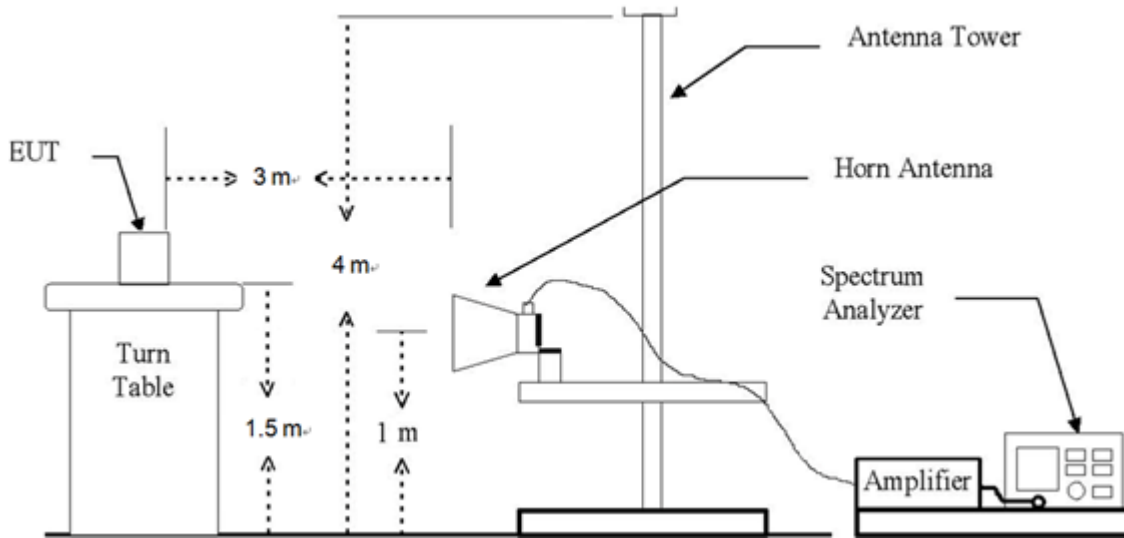
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz.



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



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to 27 GHz 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(c)(10), portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz 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 MHz band and mobile and portable stations operating in the 1 695-1 710 MHz and 1 755-1 780 MHz 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.
- §90.635(b), the maximum output power of the transmitter for mobile stations is 100 watts (20 dBW).

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 $43 + 10\log(P)$ dB.
- §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 $43 + 10 \log(P)$ dB.
- §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 $43 + 10 \log (P)$ dB.
- §27.53(h)(1), for operations in the 1 695-1 710 MHz, 1 710-1 755 MHz, 1 755-1 780 MHz, 1 915-1 920 MHz, 1 995-2 000 MHz, 2 000-2 020 MHz, 2 110-2 155 MHz, 2 155-2 180 MHz, 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 $43 + 10 \log_{10} (P)$ dB.
- §27.53(m)(4), for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log_{10} (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log_{10} (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log_{10} (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log_{10} (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log_{10} (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.
- §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 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \text{ Log}_{10} (f / 6.1)$ decibels or $50 + 10 \text{ Log}_{10} (P)$ 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 kHz.
 - (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \text{ Log}_{10} (P)$ 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 kHz.

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

1. On a test site, the EUT shall be placed at 0.8 m or 1.5 m height on a turn table, and in the position close to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. Radiated spurious emissions measurement method was set as follows:
RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz, VBW \geq 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) °C
 Relative humidity : 47 % R.H.

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

Band	Frequency (MHz)	Maximum Conducted Power (dB m)	Maximum Conducted Power (dB m)	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
2	1 850 ~ 1 910	22.63	0.183	2.8	25.43	0.349			2 W E.I.R.P.
4	1 710 ~ 1 755	22.84	0.192	2	24.84	0.305			1 W E.I.R.P.
7	2 500 ~ 2 570	22.91	0.195	5	27.91	0.618			2 W E.I.R.P.
12/17	699 ~ 716	23.02	0.200	-0.2	22.82	0.191	20.67	0.117	3 W E.R.P.
26/5 Part 22	824 ~ 849	23.34	0.216	-0.6	22.74	0.188	20.59	0.115	7 W E.R.P.
26 Part 90	814 ~ 824	23.13	0.206	-0.3	22.83	0.192	20.68	0.117	100 W
41	2 496 ~ 2 690	22.07	0.161	5	27.07	0.509			2 W E.I.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. Spurious radiated emission

LTE band 2 (20 MHz - QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 860.0 MHz)									
9 255.57	48.09	H	37.21	-32.68	52.62	-95.26	-42.64	-13	29.64
9 255.38	53.23	V	37.21	-32.68	57.76	-95.26	-37.50	-13	24.50
12 957.56	43.73	H	39.00	-28.85	53.88	-95.26	-41.38	-13	28.38
12 958.04	48.41	V	39.00	-28.80	58.61	-95.26	-36.65	-13	23.65
14 808.69	49.63	H	41.08	-23.49	67.22	-95.26	-28.04	-13	15.04
14 809.24	46.04	V	41.08	-23.49	63.63	-95.26	-31.63	-13	18.63
16 660.52	44.86	H	41.80	-23.10	63.56	-95.26	-31.70	-13	18.70
16 659.87	46.93	V	41.80	-23.10	65.63	-95.26	-29.63	-13	16.63
Above 16 700.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 880.0 MHz)									
9 355.72	48.37	H	37.42	-32.20	53.59	-95.26	-41.67	-13	28.67
9 355.45	53.76	V	37.42	-32.20	58.98	-95.26	-36.28	-13	23.28
13 097.50	44.47	H	39.10	-28.04	55.53	-95.26	-39.73	-13	26.73
13 097.55	50.63	V	39.10	-28.04	61.69	-95.26	-33.57	-13	20.57
14 968.66	49.44	H	40.76	-26.50	63.70	-95.26	-31.56	-13	18.56
14 968.96	48.92	V	40.76	-26.51	63.17	-95.26	-32.09	-13	19.09
16 839.62	42.14	H	42.00	-23.86	60.28	-95.26	-34.98	-13	21.98
16 839.41	45.37	V	42.00	-23.85	63.52	-95.26	-31.74	-13	18.74
Above 16 900.00	Not detected	-	-	-	-	-	-	-	-

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
High Channel (1 900.0 MHz)									
9 455.40	45.83	H	37.70	-31.92	51.61	-95.26	-43.65	-13	30.65
9 455.63	53.24	V	37.70	-31.92	59.02	-95.26	-36.24	-13	23.24
13 237.68	48.64	H	39.38	-28.61	59.41	-95.26	-35.85	-13	22.85
13 237.65	49.34	V	39.38	-28.61	60.11	-95.26	-35.15	-13	22.15
15 129.40	46.09	H	40.44	-25.85	60.68	-95.26	-34.58	-13	21.58
15 128.78	47.67	V	40.44	-25.85	62.26	-95.26	-33.00	-13	20.00
17 019.45	40.49	H	42.20	-23.38	59.31	-95.26	-35.95	-13	22.95
17 019.65	40.92	V	42.20	-23.38	59.74	-95.26	-35.52	-13	22.52
Above 17 100.00	Not detected	-	-	-	-	-	-	-	-

LTE band 4 (20 MHz - QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 720.0 MHz)									
5 133.30	62.33	H	33.27	-35.46	60.14	-95.26	-35.12	-13	22.12
5 133.22	65.34	V	33.27	-35.46	63.15	-95.26	-32.11	-13	19.11
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 732.5 MHz)									
5 170.83	61.50	H	33.38	-35.34	59.54	-95.26	-35.72	-13	22.72
5 170.88	62.33	V	33.38	-35.34	60.37	-95.26	-34.89	-13	21.89
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 745.0 MHz)									
5 208.30	60.78	H	33.52	-35.15	59.15	-95.26	-36.11	-13	23.11
5 208.40	64.79	V	33.52	-35.15	63.16	-95.26	-32.10	-13	19.10
Above 5 300.00	Not detected	-	-	-	-	-	-	-	-

LTE band 7 (20 MHz - QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 510.0 MHz)									
3 629.50	56.20	V	31.48	-37.09	50.59	-95.26	-44.67	-25	19.67
5 002.25	46.39	H	33.00	-35.26	44.13	-95.26	-51.13	-25	26.13
5 002.07	51.36	V	33.00	-35.26	49.10	-95.26	-46.16	-25	21.16
7 503.24	44.96	V	35.90	-32.96	47.90	-95.26	-47.36	-25	22.36
10 004.46	47.63	V	37.80	-31.90	53.53	-95.26	-41.73	-25	16.73
Above 10 100.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 535.0 MHz)									
3 626.35	52.49	V	31.46	-37.11	46.84	-95.26	-48.42	-25	23.42
5 052.29	49.99	H	33.01	-35.18	47.82	-95.26	-47.44	-25	22.44
5 052.23	53.45	V	33.01	-35.18	51.28	-95.26	-43.98	-25	18.98
7 578.18	44.63	V	35.90	-32.64	47.89	-95.26	-47.37	-25	22.37
10 104.51	54.39	V	37.81	-31.56	60.64	-95.26	-34.62	-25	9.62
Above 10 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 567.5 MHz)									
3 626.10	54.77	V	31.46	-37.11	49.12	-95.26	-46.14	-25	21.14
5 102.10	50.12	H	33.20	-35.42	47.90	-95.26	-47.36	-25	22.36
5 102.22	51.44	V	33.20	-35.42	49.22	-95.26	-46.04	-25	21.04
7 653.43	43.79	V	35.91	-32.40	47.30	-95.26	-47.96	-25	22.96
10 204.54	42.46	V	37.89	-31.55	48.80	-95.26	-46.46	-25	21.46
Above 10 300.00	Not detected	-	-	-	-	-	-	-	-

LTE band 12/17 (3 MHz - QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (700.5 MHz)									
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (707.5 MHz)									
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (714.5 MHz)									
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

LTE band 26/5 Part 22 (15 MHz - QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (831.5 MHz)									
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (841.5 MHz)									
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

LTE band 26 Part 90 (15 MHz - QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (821.5 MHz)									
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

LTE band 41 (20 MHz - QPSK)

Frequency (MHz)	Measured Level (dB μ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 506.0 MHz)									
7 491.31	48.52	H	35.92	-32.93	51.51	-95.26	-43.75	-25	18.75
7 491.28	56.72	V	35.92	-32.93	59.71	-95.26	-35.55	-25	10.55
9 988.25	62.37	V	37.80	-32.08	68.09	-95.26	-27.17	-25	2.17
Above 10 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 593.0 MHz)									
7 752.34	46.26	H	36.00	-32.54	49.72	-95.26	-45.54	-25	20.54
7 752.63	49.88	V	36.00	-32.55	53.33	-95.26	-41.93	-25	16.93
10 336.53	57.87	V	37.80	-30.76	64.91	-95.26	-30.35	-25	5.35
Above 10 400.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 680.0 MHz)									
8 013.28	42.97	H	36.13	-33.16	45.94	-95.26	-49.32	-25	24.32
8 013.41	45.11	V	36.13	-33.16	48.08	-95.26	-47.18	-25	22.18
10 684.09	55.01	V	37.87	-30.80	62.08	-95.26	-33.18	-25	8.18
Above 10 700.00	Not detected	-	-	-	-	-	-	-	-

Remark;

1. AF = Antenna Factor, CL = Cable Loss, CF = Conversion Factor.
2. E (dB μ V/m) = Measured Level (dB μ V) + Antenna Factor (dB/m) + AMP (dB) + Cable Loss (dB).
3. E.I.R.P. (dB m) = E (dB μ V/m) + CF (dB).
4. E.R.P. (dB m) = E (dB μ V/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 kHz 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

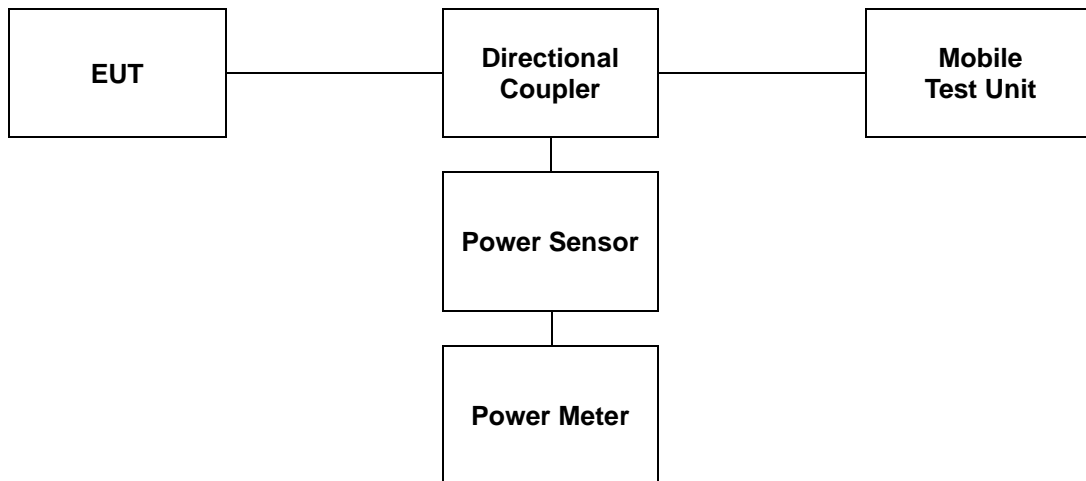
3.1. Limit

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) °C
 Relative humidity : 47 % R.H.

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18607 (1 850.7 MHz)		18900 (1 880.0 MHz)		19193 (1 909.3 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.27	0.169	22.27	0.169	22.47	0.177
		1	3	22.25	0.168	22.16	0.164	22.41	0.174
		1	5	22.19	0.166	22.23	0.167	22.30	0.170
		3	0	21.16	0.131	21.22	0.132	21.40	0.138
		3	2	21.21	0.132	21.21	0.132	21.32	0.136
		3	3	21.16	0.131	21.28	0.134	21.30	0.135
	16QAM	6	0	21.12	0.129	21.17	0.131	21.46	0.140
		1	0	21.37	0.137	21.40	0.138	21.63	0.146
		1	3	21.40	0.138	21.52	0.142	21.72	0.149
		1	5	21.48	0.141	21.42	0.139	21.66	0.147
		3	0	20.31	0.107	20.55	0.114	20.62	0.115
		3	2	20.24	0.106	20.66	0.116	20.73	0.118
		3	3	20.30	0.107	20.55	0.114	20.48	0.112
		6	0	20.21	0.105	20.66	0.116	20.54	0.113

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18615 (1 851.5 MHz)		18900 (1 880.0 MHz)		19185 (1 908.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	22.18	0.165	22.32	0.171	22.33	0.171
		1	7	22.36	0.172	22.37	0.173	22.53	0.179
		1	14	22.31	0.170	22.30	0.170	22.55	0.180
		8	0	21.24	0.133	21.31	0.135	21.47	0.140
		8	4	21.28	0.134	21.26	0.134	21.48	0.141
		8	7	21.30	0.135	21.36	0.137	21.39	0.138
	16QAM	15	0	21.23	0.133	21.30	0.135	21.47	0.140
		1	0	21.29	0.135	21.69	0.148	21.61	0.145
		1	7	21.64	0.146	21.81	0.152	21.76	0.150
		1	14	21.68	0.147	21.49	0.141	21.84	0.153
		8	0	20.45	0.111	20.42	0.110	20.47	0.111
		8	4	20.48	0.112	20.41	0.110	20.45	0.111
		8	7	20.49	0.112	20.38	0.109	20.47	0.111
		15	0	20.33	0.108	20.34	0.108	20.49	0.112

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18625 (1 852.5 MHz)		18900 (1 880.0 MHz)		19175 (1 907.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.26	0.168	22.36	0.172	22.32	0.171
		1	12	22.40	0.174	22.41	0.174	22.48	0.177
		1	24	22.37	0.173	22.38	0.173	22.44	0.175
		12	0	21.32	0.136	22.32	0.171	21.44	0.139
		12	6	21.21	0.132	22.36	0.172	21.49	0.141
		12	13	21.27	0.134	22.35	0.172	21.43	0.139
		25	0	21.27	0.134	21.32	0.136	21.45	0.140
	16QAM	1	0	21.79	0.151	21.53	0.142	21.65	0.146
		1	12	21.47	0.140	21.72	0.149	21.79	0.151
		1	24	21.50	0.141	21.65	0.146	21.74	0.149
		12	0	20.46	0.111	20.34	0.108	20.57	0.114
		12	6	20.39	0.109	20.44	0.111	20.49	0.112
		12	13	20.36	0.109	20.47	0.111	20.48	0.112
		25	0	20.37	0.109	20.34	0.108	20.51	0.112

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18650 (1 855.0 MHz)		18900 (1 880.0 MHz)		19150 (1 905.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	22.53	0.179	22.58	0.181	22.54	0.179
		1	25	22.23	0.167	22.37	0.173	22.40	0.174
		1	49	22.41	0.174	22.42	0.175	22.31	0.170
		25	0	21.44	0.139	21.42	0.139	21.53	0.142
		25	12	21.32	0.136	21.41	0.138	21.44	0.139
		25	25	21.29	0.135	21.40	0.138	21.38	0.137
		50	0	21.40	0.138	21.42	0.139	21.38	0.137
	16QAM	1	0	21.83	0.152	21.70	0.148	21.83	0.152
		1	25	21.66	0.147	21.61	0.145	21.60	0.145
		1	49	21.72	0.149	21.76	0.150	21.62	0.145
		25	0	20.51	0.112	20.57	0.114	20.55	0.114
		25	12	20.55	0.114	20.49	0.112	20.45	0.111
		25	25	20.47	0.111	20.46	0.111	20.43	0.110
		50	0	20.42	0.110	20.48	0.112	20.40	0.110

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18675 (1 857.5 MHz)		18900 (1 880.0 MHz)		19125 (1 902.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	22.42	0.175	22.41	0.174	22.57	0.181
		1	36	22.45	0.176	22.51	0.178	22.54	0.179
		1	74	22.39	0.173	22.45	0.176	22.56	0.180
		36	0	21.43	0.139	21.50	0.141	21.57	0.144
		36	18	21.41	0.138	21.46	0.140	21.58	0.144
		36	37	21.36	0.137	21.41	0.138	21.58	0.144
		75	0	21.36	0.137	21.44	0.139	21.56	0.143
	16QAM	1	0	21.61	0.145	21.73	0.149	21.88	0.154
		1	36	21.58	0.144	21.74	0.149	21.77	0.150
		1	74	21.54	0.143	21.66	0.147	21.87	0.154
		36	0	20.52	0.113	20.50	0.112	20.64	0.116
		36	18	20.35	0.108	20.48	0.112	20.62	0.115
		36	37	20.44	0.111	20.47	0.111	20.68	0.117
		75	0	20.45	0.111	20.51	0.112	20.57	0.114

LTE Band 2									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				18700 (1 860.0 MHz)		18900 (1 880.0 MHz)		19100 (1 900.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	22.59	0.182	22.61	0.182	22.63	0.183
		1	50	22.52	0.179	22.43	0.175	22.62	0.183
		1	99	22.37	0.173	22.39	0.173	22.53	0.179
		50	0	21.56	0.143	22.54	0.179	22.60	0.182
		50	25	21.38	0.137	22.51	0.178	22.57	0.181
		50	13	21.42	0.139	22.51	0.178	22.61	0.182
		100	0	21.48	0.141	22.50	0.178	21.59	0.144
	16QAM	1	0	21.89	0.155	22.00	0.158	22.03	0.160
		1	50	21.76	0.150	21.73	0.149	21.76	0.150
		1	99	21.71	0.148	21.61	0.145	21.66	0.147
		50	0	20.71	0.118	20.62	0.115	20.67	0.117
		50	25	20.46	0.111	20.53	0.113	20.65	0.116
		50	50	20.54	0.113	20.55	0.114	20.64	0.116
		100	0	20.55	0.114	20.52	0.113	20.61	0.115

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				19957 (1 710.7 MHz)		20175 (1 732.5 MHz)		20393 (1 754.3 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.39	0.173	22.62	0.183	22.60	0.182
		1	3	22.57	0.181	22.65	0.184	22.59	0.182
		1	5	22.38	0.173	22.53	0.179	22.63	0.183
		3	0	21.44	0.139	21.63	0.146	21.64	0.146
		3	2	21.48	0.141	21.62	0.145	21.60	0.145
		3	3	21.43	0.139	21.54	0.143	21.56	0.143
		6	0	21.44	0.139	21.59	0.144	21.64	0.146
	16QAM	1	0	21.68	0.147	21.61	0.145	21.79	0.151
		1	3	21.87	0.154	21.72	0.149	21.83	0.152
		1	5	21.73	0.149	21.98	0.158	21.89	0.155
		3	0	20.51	0.112	20.84	0.121	20.78	0.120
		3	2	20.56	0.114	20.89	0.123	20.92	0.124
		3	3	20.52	0.113	20.83	0.121	20.83	0.121
		6	0	20.46	0.111	20.73	0.118	20.92	0.124

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				19965 (1 711.5 MHz)		20175 (1 732.5 MHz)		20385 (1 753.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	22.63	0.183	22.61	0.182	22.52	0.179
		1	7	22.71	0.187	22.69	0.186	22.68	0.185
		1	14	22.64	0.184	22.62	0.183	22.69	0.186
		8	0	21.55	0.143	21.61	0.145	21.56	0.143
		8	4	21.52	0.142	21.64	0.146	21.56	0.143
		8	7	21.55	0.143	21.65	0.146	21.55	0.143
		15	0	21.48	0.141	21.62	0.145	21.57	0.144
	16QAM	1	0	21.83	0.152	21.84	0.153	21.81	0.152
		1	7	21.95	0.157	21.87	0.154	21.87	0.154
		1	14	21.76	0.150	21.72	0.149	21.99	0.158
		8	0	20.50	0.112	20.73	0.118	20.58	0.114
		8	4	20.66	0.116	20.74	0.119	20.59	0.115
		8	7	20.65	0.116	20.68	0.117	20.58	0.114
		15	0	20.57	0.114	20.67	0.117	20.60	0.115

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				19975 (1 712.5 MHz)		20175 (1 732.5 MHz)		20375 (1 752.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.51	0.178	22.73	0.187	22.57	0.181
		1	12	22.49	0.177	22.73	0.187	22.55	0.180
		1	24	22.61	0.182	22.76	0.189	22.70	0.186
		12	0	21.53	0.142	21.64	0.146	21.59	0.144
		12	6	21.49	0.141	21.70	0.148	21.56	0.143
		12	13	21.47	0.140	21.69	0.148	21.64	0.146
		25	0	21.47	0.140	21.66	0.147	21.55	0.143
	16QAM	1	0	21.76	0.150	21.85	0.153	21.86	0.153
		1	12	21.90	0.155	22.14	0.164	21.61	0.145
		1	24	21.75	0.150	21.91	0.155	21.90	0.155
		12	0	20.70	0.117	20.73	0.118	20.60	0.115
		12	6	20.66	0.116	20.77	0.119	20.59	0.115
		12	13	20.66	0.116	20.74	0.119	20.69	0.117
		25	0	20.57	0.114	20.64	0.116	20.57	0.114

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20000 (1 715.0 MHz)		20175 (1 732.5 MHz)		20350 (1 750.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	22.54	0.179	22.67	0.185	22.80	0.191
		1	25	22.56	0.180	22.72	0.187	22.60	0.182
		1	49	22.74	0.188	22.82	0.191	22.46	0.176
		25	0	21.59	0.144	21.73	0.149	21.73	0.149
		25	12	21.64	0.146	21.75	0.150	21.60	0.145
		25	25	21.75	0.150	21.70	0.148	21.60	0.145
		50	0	21.66	0.147	21.63	0.146	21.58	0.144
	16QAM	1	0	21.76	0.150	21.91	0.155	22.22	0.167
		1	25	21.84	0.153	22.08	0.161	21.73	0.149
		1	49	21.83	0.152	21.92	0.156	21.75	0.150
		25	0	20.69	0.117	20.81	0.121	20.76	0.119
		25	12	20.67	0.117	20.73	0.118	20.66	0.116
		25	25	20.68	0.117	20.75	0.119	20.66	0.116
		50	0	20.68	0.117	20.70	0.117	20.62	0.115

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20025 (1 717.5 MHz)		20175 (1 732.5 MHz)		20325 (1 747.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	22.75	0.188	22.79	0.190	22.66	0.185
		1	36	22.66	0.185	22.84	0.192	22.66	0.185
		1	74	22.73	0.187	22.77	0.189	22.76	0.189
		36	0	21.69	0.148	21.82	0.152	21.78	0.151
		36	18	21.61	0.145	21.77	0.150	21.73	0.149
		36	37	21.63	0.146	21.75	0.150	21.80	0.151
		75	0	21.71	0.148	21.74	0.149	21.72	0.149
	16QAM	1	0	21.94	0.156	22.01	0.159	21.82	0.152
		1	36	22.09	0.162	22.06	0.161	22.04	0.160
		1	74	21.87	0.154	22.03	0.160	22.13	0.163
		36	0	20.89	0.123	20.82	0.121	20.79	0.120
		36	18	20.68	0.117	20.78	0.120	20.79	0.120
		36	37	20.67	0.117	20.78	0.120	20.82	0.121
		75	0	20.71	0.118	20.79	0.120	20.75	0.119

LTE Band 4									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20050 (1 720.0 MHz)		20175 (1 732.5 MHz)		20300 (1 745.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	22.68	0.185	22.84	0.192	22.75	0.188
		1	50	22.76	0.189	22.80	0.191	22.74	0.188
		1	99	22.73	0.187	22.75	0.188	22.65	0.184
		50	0	21.69	0.148	21.83	0.152	21.74	0.149
		50	25	21.75	0.150	21.79	0.151	21.71	0.148
		50	13	21.67	0.147	21.83	0.152	21.64	0.146
		100	0	21.72	0.149	21.82	0.152	21.71	0.148
	16QAM	1	0	21.84	0.153	22.13	0.163	21.93	0.156
		1	50	21.95	0.157	22.04	0.160	21.83	0.152
		1	99	21.90	0.155	22.05	0.160	21.86	0.153
		50	0	20.88	0.122	20.93	0.124	20.78	0.120
		50	25	20.87	0.122	20.95	0.124	20.68	0.117
		50	50	20.76	0.119	20.89	0.123	20.70	0.117
		100	0	20.82	0.121	20.83	0.121	20.65	0.116

LTE Band 7									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20775 (2 502.5 MHz)		21100 (2 535.0 MHz)		21425 (2 567.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.77	0.189	22.62	0.183	22.68	0.185
		1	12	22.57	0.181	22.69	0.186	22.64	0.184
		1	24	22.41	0.174	22.71	0.187	22.71	0.187
		3	0	21.59	0.144	21.64	0.146	21.66	0.147
		3	6	21.61	0.145	21.65	0.146	21.54	0.143
		3	13	21.49	0.141	21.64	0.146	21.62	0.145
		6	0	21.51	0.142	21.63	0.146	21.70	0.148
	16QAM	1	0	22.09	0.162	22.09	0.162	21.92	0.156
		1	12	21.78	0.151	21.91	0.155	21.88	0.154
		1	24	21.46	0.140	22.03	0.160	21.92	0.156
		3	0	20.61	0.115	20.68	0.117	21.02	0.126
		3	6	20.62	0.115	20.67	0.117	20.97	0.125
		3	13	20.46	0.111	20.67	0.117	20.87	0.122
		6	0	20.48	0.112	20.67	0.117	20.89	0.123

LTE Band 7									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20800 (2 505.0 MHz)		21100 (2 535.0 MHz)		21400 (2 565.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	22.73	0.187	22.72	0.187	22.63	0.183
		1	25	22.59	0.182	22.61	0.182	22.45	0.176
		1	49	22.41	0.174	22.55	0.180	22.55	0.180
		25	0	21.66	0.147	21.78	0.151	21.70	0.148
		25	12	21.66	0.147	21.71	0.148	21.64	0.146
		25	25	21.51	0.142	21.60	0.145	21.68	0.147
		50	0	21.53	0.142	21.69	0.148	21.70	0.148
	16QAM	1	0	22.17	0.165	22.01	0.159	21.94	0.156
		1	25	21.84	0.153	21.87	0.154	21.86	0.153
		1	49	21.77	0.150	21.87	0.154	21.91	0.155
		25	0	20.68	0.117	20.74	0.119	20.72	0.118
		25	12	20.70	0.117	20.77	0.119	20.68	0.117
		25	25	20.57	0.114	20.65	0.116	20.69	0.117
		50	0	20.56	0.114	20.74	0.119	20.71	0.118

LTE Band 7									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20825 (2 507.5 MHz)		21100 (2 535.0 MHz)		21375 (2 562.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	22.82	0.191	22.75	0.188	22.62	0.183
		1	36	22.63	0.183	22.77	0.189	22.52	0.179
		1	74	22.60	0.182	22.75	0.188	22.57	0.181
		36	0	21.74	0.149	21.76	0.150	21.54	0.143
		36	18	21.74	0.149	21.77	0.150	21.58	0.144
		36	37	21.61	0.145	21.69	0.148	21.56	0.143
		75	0	21.58	0.144	21.75	0.150	21.59	0.144
	16QAM	1	0	22.24	0.167	21.85	0.153	22.01	0.159
		1	36	21.94	0.156	22.04	0.160	21.93	0.156
		1	74	21.93	0.156	22.01	0.159	21.99	0.158
		36	0	20.75	0.119	20.83	0.121	20.58	0.114
		36	18	20.70	0.117	20.84	0.121	20.56	0.114
		36	37	20.65	0.116	20.69	0.117	20.58	0.114
		75	0	20.61	0.115	20.81	0.121	20.58	0.114

LTE Band 7									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				20850 (2 510.0 MHz)		21100 (2 535.0 MHz)		21350 (2 560.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	22.91	0.195	22.72	0.187	22.79	0.190
		1	50	22.73	0.187	22.69	0.186	22.54	0.179
		1	99	22.59	0.182	22.59	0.182	22.50	0.178
		50	0	21.84	0.153	21.70	0.148	21.70	0.148
		50	25	21.70	0.148	21.78	0.151	21.55	0.143
		50	50	21.57	0.144	21.73	0.149	21.58	0.144
		100	0	21.60	0.145	21.78	0.151	21.65	0.146
	16QAM	1	0	22.09	0.162	22.03	0.160	22.04	0.160
		1	50	22.09	0.162	22.07	0.161	21.87	0.154
		1	99	21.81	0.152	21.96	0.157	21.96	0.157
		50	0	21.89	0.155	20.75	0.119	20.69	0.117
		50	25	21.78	0.151	20.79	0.120	20.61	0.115
		50	50	21.62	0.145	20.76	0.119	20.54	0.113
		100	0	20.61	0.115	20.82	0.121	20.60	0.115

LTE Band 12									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23017 (699.7 MHz)		23095 (707.5 MHz)		23173 (715.3 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.96	0.198	22.94	0.197	22.81	0.191
		1	3	22.95	0.197	22.85	0.193	22.81	0.191
		1	5	22.90	0.195	22.98	0.199	22.81	0.191
		3	0	21.85	0.153	21.95	0.157	21.94	0.156
		3	2	21.88	0.154	21.90	0.155	21.83	0.152
		3	3	21.81	0.152	21.89	0.155	21.97	0.157
		6	0	21.78	0.151	21.80	0.151	21.96	0.157
	16QAM	1	0	21.98	0.158	22.01	0.159	21.83	0.152
		1	3	21.90	0.155	21.82	0.152	21.83	0.152
		1	5	21.88	0.154	21.79	0.151	21.83	0.152
		3	0	20.88	0.122	20.82	0.121	20.91	0.123
		3	2	21.02	0.126	20.78	0.120	20.94	0.124
		3	3	20.93	0.124	20.79	0.120	20.88	0.122
		6	0	20.91	0.123	21.01	0.126	21.00	0.126

LTE Band 12									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23025 (700.5 MHz)		23095 (707.5 MHz)		23165 (714.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	22.80	0.191	22.86	0.193	22.82	0.191
		1	7	23.02	0.200	22.84	0.192	22.79	0.190
		1	14	22.91	0.195	22.84	0.192	23.01	0.200
		8	0	21.83	0.152	21.84	0.153	21.91	0.155
		8	4	21.78	0.151	21.95	0.157	22.00	0.158
		8	7	21.86	0.153	21.89	0.155	21.83	0.152
		15	0	21.92	0.156	21.90	0.155	21.84	0.153
	16QAM	1	0	21.81	0.152	21.90	0.155	22.00	0.158
		1	7	21.96	0.157	21.95	0.157	21.87	0.154
		1	14	21.86	0.153	21.95	0.157	21.83	0.152
		8	0	20.88	0.122	20.81	0.121	20.82	0.121
		8	4	20.92	0.124	21.01	0.126	20.79	0.120
		8	7	21.01	0.126	20.96	0.125	20.99	0.126
		15	0	20.93	0.124	20.94	0.124	20.96	0.125

LTE Band 12/17									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23035 (701.5 MHz)		23095 (707.5 MHz)		23155 (713.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.91	0.195	22.80	0.191	22.88	0.194
		1	12	22.81	0.191	22.79	0.190	22.85	0.193
		1	24	22.92	0.196	23.01	0.200	22.78	0.190
		12	0	21.94	0.156	21.88	0.154	21.96	0.157
		12	6	21.99	0.158	21.81	0.152	21.98	0.158
		12	13	21.93	0.156	21.93	0.156	21.97	0.157
		25	0	21.82	0.152	21.99	0.158	21.82	0.152
	16QAM	1	0	21.86	0.153	21.78	0.151	21.89	0.155
		1	12	22.01	0.159	21.89	0.155	21.91	0.155
		1	24	21.94	0.156	21.96	0.157	21.80	0.151
		12	0	20.93	0.124	20.95	0.124	20.97	0.125
		12	6	20.88	0.122	20.80	0.120	20.87	0.122
		12	13	20.88	0.122	20.87	0.122	20.93	0.124
		25	0	20.88	0.122	20.98	0.125	20.92	0.124

LTE Band 12/17									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23060 (704.0 MHz)		23095 (707.5 MHz)		23130 (711.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	22.94	0.197	23.00	0.200	22.86	0.193
		1	25	22.84	0.192	22.90	0.195	22.78	0.190
		1	49	22.92	0.196	22.81	0.191	22.93	0.196
		25	0	21.93	0.156	21.96	0.157	21.95	0.157
		25	12	21.79	0.151	22.01	0.159	22.00	0.158
		25	25	21.86	0.153	21.91	0.155	21.84	0.153
		50	0	21.85	0.153	21.84	0.153	21.97	0.157
	16QAM	1	0	21.90	0.155	21.87	0.154	21.86	0.153
		1	25	21.90	0.155	21.94	0.156	22.00	0.158
		1	49	21.97	0.157	21.98	0.158	21.85	0.153
		25	0	20.85	0.122	20.95	0.124	20.81	0.121
		25	12	20.91	0.123	20.81	0.121	20.99	0.126
		25	25	20.82	0.121	20.86	0.122	20.98	0.125
		50	0	20.88	0.122	20.85	0.122	20.87	0.122

LTE Band 26/5 part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26797 (824.7 MHz)		26915 (836.5 MHz)		27033 (848.3 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.80	0.191	23.05	0.202	22.86	0.193
		1	2	22.90	0.195	22.90	0.195	23.01	0.200
		1	5	22.82	0.191	22.95	0.197	22.83	0.192
		3	0	21.85	0.153	22.05	0.160	22.08	0.161
		3	2	21.93	0.156	22.05	0.160	22.02	0.159
		3	3	21.85	0.153	22.07	0.161	22.05	0.160
		6	0	21.81	0.152	22.06	0.161	22.05	0.160
	16QAM	1	0	22.08	0.161	22.05	0.160	22.04	0.160
		1	3	22.08	0.161	22.06	0.161	22.04	0.160
		1	5	22.09	0.162	22.04	0.160	22.12	0.163
		3	0	20.94	0.124	21.05	0.127	21.17	0.131
		3	2	21.07	0.128	21.13	0.130	21.12	0.129
		3	3	21.00	0.126	21.11	0.129	21.16	0.131
		6	0	20.87	0.122	20.97	0.125	20.89	0.123

LTE Band 26/5 part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26805 (825.5 MHz)		26915 (836.5 MHz)		27025 (847.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	22.92	0.196	23.00	0.200	22.92	0.196
		1	7	22.97	0.198	23.14	0.206	23.05	0.202
		1	14	22.92	0.196	23.05	0.202	23.13	0.206
		8	0	21.99	0.158	21.98	0.158	22.01	0.159
		8	4	21.99	0.158	22.13	0.163	22.01	0.159
		8	7	22.02	0.159	22.12	0.163	22.01	0.159
		15	0	22.01	0.159	22.09	0.162	22.01	0.159
	16QAM	1	0	22.19	0.166	22.28	0.169	22.24	0.167
		1	7	22.19	0.166	22.44	0.175	22.25	0.168
		1	14	22.17	0.165	22.41	0.174	22.46	0.176
		8	0	21.03	0.127	21.05	0.127	21.07	0.128
		8	4	21.07	0.128	21.23	0.133	21.05	0.127
		8	7	21.11	0.129	21.18	0.131	21.09	0.129
		15	0	20.99	0.126	21.11	0.129	21.06	0.128

LTE Band 26/5_part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26815 (826.5 MHz)		26915 (836.5 MHz)		27015 (846.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	22.95	0.197	23.04	0.201	23.24	0.211
		1	12	23.00	0.200	23.08	0.203	23.06	0.202
		1	24	23.06	0.202	23.12	0.205	23.03	0.201
		12	0	21.96	0.157	22.02	0.159	22.05	0.160
		12	6	21.94	0.156	22.03	0.160	22.09	0.162
		12	13	21.93	0.156	22.18	0.165	22.02	0.159
		25	0	21.93	0.156	21.98	0.158	22.03	0.160
	16QAM	1	0	22.33	0.171	22.44	0.175	22.37	0.173
		1	12	22.24	0.167	22.20	0.166	22.34	0.171
		1	24	22.32	0.171	22.39	0.173	22.21	0.166
		12	0	22.04	0.160	22.12	0.163	21.10	0.129
		12	6	22.07	0.161	22.13	0.163	21.06	0.128
		12	13	22.00	0.158	22.15	0.164	21.07	0.128
		25	0	21.99	0.158	21.08	0.128	21.07	0.128

LTE Band 26/5_part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26840 (829.0 MHz)		26915 (836.5 MHz)		26990 (844.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	23.12	0.205	23.07	0.203	23.25	0.211
		1	25	22.97	0.198	23.05	0.202	23.18	0.208
		1	49	23.10	0.204	23.12	0.205	23.17	0.207
		25	0	22.08	0.161	22.05	0.160	22.27	0.169
		25	12	22.01	0.159	22.04	0.160	22.25	0.168
		25	25	22.03	0.160	22.04	0.160	22.22	0.167
		50	0	22.04	0.160	22.04	0.160	22.03	0.160
	16QAM	1	0	22.28	0.169	22.26	0.168	22.47	0.177
		1	25	22.29	0.169	22.47	0.177	22.50	0.178
		1	49	22.31	0.170	22.35	0.172	22.32	0.171
		25	0	21.24	0.133	21.13	0.130	21.10	0.129
		25	12	21.19	0.132	21.13	0.130	21.19	0.132
		25	25	21.24	0.133	21.18	0.131	21.31	0.135
		50	0	21.15	0.130	21.16	0.131	21.29	0.135

LTE Band 26_part 22									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26865 (831.5 MHz)		-		26965 (841.5 MHz)	
				(dB m)	(W)	-	-	(dB m)	(W)
15	QPSK	1	0	23.09	0.204	-	-	23.34	0.216
		1	36	23.04	0.201	-	-	23.15	0.207
		1	74	23.10	0.204	-	-	23.08	0.203
		36	0	22.08	0.161	-	-	22.09	0.162
		36	18	22.03	0.160	-	-	22.20	0.166
		36	37	22.04	0.160	-	-	22.19	0.166
		75	0	22.04	0.160	-	-	22.19	0.166
	16QAM	1	0	22.39	0.173	-	-	22.44	0.175
		1	36	22.39	0.173	-	-	22.46	0.176
		1	74	22.36	0.172	-	-	22.46	0.176
		36	0	21.18	0.131	-	-	21.17	0.131
		36	18	21.17	0.131	-	-	21.23	0.133
		36	37	21.07	0.128	-	-	21.26	0.134
		75	0	21.12	0.129	-	-	21.21	0.132

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26697 (814.7 MHz)		26740 (819.0 MHz)		26783 (823.3 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
1.4	QPSK	1	0	22.91	0.195	22.82	0.191	22.91	0.195
		1	2	23.07	0.203	22.87	0.194	22.96	0.198
		1	5	22.80	0.191	22.88	0.194	22.96	0.198
		3	0	21.96	0.157	21.83	0.152	21.95	0.157
		3	2	22.03	0.160	21.97	0.157	21.95	0.157
		3	3	22.00	0.158	21.91	0.155	21.94	0.156
		6	0	22.01	0.159	21.85	0.153	21.99	0.158
	16QAM	1	0	22.41	0.174	22.01	0.159	22.05	0.160
		1	2	22.43	0.175	22.13	0.163	22.03	0.160
		1	5	22.16	0.164	22.04	0.160	22.03	0.160
		3	0	21.07	0.128	21.11	0.129	21.10	0.129
		3	2	21.24	0.133	21.13	0.130	21.10	0.129
		3	3	21.08	0.128	21.27	0.134	21.12	0.129
		6	0	21.08	0.128	21.19	0.132	21.17	0.131

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26705 (815.5 MHz)		26740 (819.0 MHz)		26775 (822.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
3	QPSK	1	0	23.02	0.200	22.88	0.194	23.10	0.204
		1	7	23.10	0.204	22.95	0.197	23.12	0.205
		1	14	22.98	0.199	23.00	0.200	23.10	0.204
		8	0	21.96	0.157	21.93	0.156	22.03	0.160
		8	4	21.99	0.158	21.94	0.156	22.03	0.160
		8	7	21.94	0.156	21.99	0.158	22.03	0.160
		15	0	21.97	0.157	21.96	0.157	22.04	0.160
	16QAM	1	0	22.21	0.166	22.33	0.171	22.32	0.171
		1	7	22.26	0.168	22.19	0.166	22.40	0.174
		1	14	22.14	0.164	22.24	0.167	22.51	0.178
		8	0	20.99	0.126	21.01	0.126	20.98	0.125
		8	4	21.10	0.129	20.97	0.125	21.00	0.126
		8	7	21.13	0.130	21.07	0.128	20.98	0.125
		15	0	20.99	0.126	20.89	0.123	21.01	0.126

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26715 (816.5 MHz)		26740 (819.0 MHz)		26765 (821.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	23.01	0.200	22.87	0.194	23.06	0.202
		1	12	22.98	0.199	22.98	0.199	22.95	0.197
		1	24	22.91	0.195	23.09	0.204	22.92	0.196
		12	0	22.00	0.158	21.94	0.156	21.99	0.158
		12	6	21.95	0.157	21.98	0.158	22.00	0.158
		12	13	21.88	0.154	21.99	0.158	21.98	0.158
		25	0	21.95	0.157	21.93	0.156	21.98	0.158
	16QAM	1	0	22.07	0.161	21.13	0.130	21.28	0.134
		1	12	22.05	0.160	21.30	0.135	21.30	0.135
		1	24	22.02	0.159	21.48	0.141	21.27	0.134
		12	0	21.03	0.127	20.99	0.126	21.03	0.127
		12	6	21.13	0.130	20.90	0.123	20.98	0.125
		12	13	21.00	0.126	21.08	0.128	20.95	0.124
		25	0	21.01	0.126	20.97	0.125	20.99	0.126

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26740 (819.0 MHz)					
						(dB m)	(W)		
10	QPSK	1	0	-	-	22.94	0.197	-	-
		1	25	-	-	22.79	0.190	-	-
		1	49	-	-	22.87	0.194	-	-
		25	0	-	-	21.90	0.155	-	-
		25	12	-	-	21.95	0.157	-	-
		25	25	-	-	21.93	0.156	-	-
		50	0	-	-	21.93	0.156	-	-
	16QAM	1	0	-	-	22.06	0.161	-	-
		1	25	-	-	22.10	0.162	-	-
		1	49	-	-	22.02	0.159	-	-
		25	0	-	-	20.99	0.126	-	-
		25	12	-	-	20.95	0.124	-	-
		25	25	-	-	21.01	0.126	-	-
		50	0	-	-	20.95	0.124	-	-

LTE Band 26_part 90									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				26765 (821.5 MHz)					
						(dB m)	(W)		
15	QPSK	1	0	-	-	23.13	0.206	-	-
		1	36	-	-	23.05	0.202	-	-
		1	74	-	-	23.08	0.203	-	-
		36	0	-	-	22.14	0.164	-	-
		36	18	-	-	22.04	0.160	-	-
		36	37	-	-	22.01	0.159	-	-
		75	0	-	-	22.05	0.160	-	-
	16QAM	1	0	-	-	22.42	0.175	-	-
		1	36	-	-	22.43	0.175	-	-
		1	74	-	-	22.32	0.171	-	-
		36	0	-	-	21.26	0.134	-	-
		36	18	-	-	21.24	0.133	-	-
		36	37	-	-	21.23	0.133	-	-
		75	0	-	-	21.14	0.130	-	-

LTE Band 41									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39675 (2 498.5 MHz)		40620 (2 593.0 MHz)		41565 (2 687.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	21.83	0.152	21.60	0.145	21.82	0.152
		1	12	21.78	0.151	21.50	0.141	21.75	0.150
		1	24	21.71	0.148	21.60	0.145	21.69	0.148
		12	0	20.78	0.120	20.75	0.119	20.74	0.119
		12	6	20.83	0.121	20.69	0.117	20.74	0.119
		12	13	20.74	0.119	20.72	0.118	20.84	0.121
		25	0	20.85	0.122	20.61	0.115	20.85	0.122
	16QAM	1	0	20.90	0.123	20.72	0.118	20.82	0.121
		1	12	20.86	0.122	20.49	0.112	20.83	0.121
		1	24	20.72	0.118	20.70	0.117	20.87	0.122
		12	0	19.90	0.098	19.76	0.095	19.77	0.095
		12	6	19.90	0.098	19.69	0.093	19.67	0.093
		12	13	19.72	0.094	19.71	0.094	19.86	0.097
		25	0	19.82	0.096	19.63	0.092	19.83	0.096

LTE Band 41									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39700 (2 501.0 MHz)		40620 (2 593.0 MHz)		41540 (2 685.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
10	QPSK	1	0	21.78	0.151	21.78	0.151	21.91	0.155
		1	25	21.74	0.149	21.63	0.146	21.90	0.155
		1	49	21.68	0.147	21.51	0.142	21.73	0.149
		25	0	20.72	0.118	20.80	0.120	20.92	0.124
		25	12	20.65	0.116	20.58	0.114	20.91	0.123
		25	25	20.68	0.117	20.58	0.114	20.99	0.126
	16QAM	50	0	20.67	0.117	20.73	0.118	21.03	0.127
		1	0	20.77	0.119	20.78	0.120	21.36	0.137
		1	25	20.79	0.120	20.74	0.119	20.78	0.120
		1	49	20.54	0.113	20.56	0.114	20.92	0.124
		25	0	19.76	0.095	19.69	0.093	19.97	0.099
		25	12	19.79	0.095	19.70	0.093	19.85	0.097
		25	25	19.76	0.095	19.66	0.092	20.03	0.101
		50	0	19.74	0.094	19.75	0.094	19.96	0.099

LTE Band 41									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39725 (2 503.5 MHz)		40620 (2 593.0 MHz)		41515 (2 682.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
15	QPSK	1	0	21.73	0.149	21.84	0.153	21.88	0.154
		1	36	21.57	0.144	21.63	0.146	21.63	0.146
		1	74	21.76	0.150	21.74	0.149	21.50	0.141
		36	0	20.71	0.118	20.81	0.121	20.95	0.124
		36	18	20.70	0.117	20.84	0.121	20.86	0.122
		36	37	20.71	0.118	20.71	0.118	20.72	0.118
	16QAM	75	0	20.69	0.117	20.82	0.121	20.75	0.119
		1	0	20.83	0.121	20.95	0.124	20.94	0.124
		1	36	20.57	0.114	20.84	0.121	20.53	0.113
		1	74	20.73	0.118	20.91	0.123	20.57	0.114
		36	0	19.57	0.091	19.62	0.092	19.89	0.097
		36	18	19.74	0.094	19.69	0.093	19.86	0.097
		36	37	19.79	0.095	19.64	0.092	19.65	0.092
		75	0	19.76	0.095	19.88	0.097	19.91	0.098

LTE Band 41									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				39750 (2 506.0 MHz)		40620 (2 593.0 MHz)		41490 (2 680.0 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
20	QPSK	1	0	21.73	0.149	22.07	0.161	21.90	0.155
		1	50	21.85	0.153	21.81	0.152	21.93	0.156
		1	99	21.74	0.149	21.92	0.156	21.87	0.154
		50	0	20.74	0.119	21.06	0.128	20.05	0.101
		50	25	20.73	0.118	20.85	0.122	20.07	0.102
		50	13	20.81	0.121	20.89	0.123	20.90	0.123
	16QAM	100	0	20.78	0.120	20.98	0.125	20.03	0.101
		1	0	20.81	0.121	20.96	0.125	20.71	0.118
		1	50	20.75	0.119	20.96	0.125	20.94	0.124
		1	99	20.67	0.117	20.78	0.120	20.83	0.121
		50	0	19.86	0.097	19.97	0.099	19.92	0.098
		50	25	19.73	0.094	19.95	0.099	19.95	0.099
		50	50	19.82	0.096	19.84	0.096	19.97	0.099
		100	0	19.79	0.095	19.95	0.099	20.12	0.103