

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: 2AP7FRMCUM5

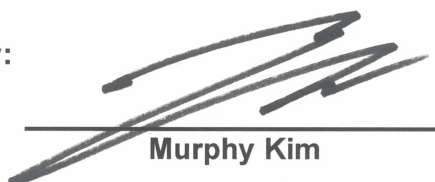
Equipment Under Test : RMCU
Model Name : RMCU M5
Variant Model Name(s) : -
Applicant : TAEHA MECHATRONICS Co., Ltd.
Manufacturer : TAEHA MECHATRONICS Co., Ltd.
Date of Receipt : 2023.12.06
Date of Test(s) : 2023.12.11 ~ 2024.01.31
Date of Issue : 2024.01.31

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

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

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

Tested by:



Murphy Kim

Technical
Manager:



Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory



INDEX

<u>Table of Contents</u>	Page
1. General Information -----	3
2. E.R.P. / E.I.R.P. & Radiated Spurious Emission -----	11
3. Conducted Output Power -----	30

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>.

Phone No. : +82 31 688 0901

Fax No. : +82 31 688 0921

1.2. Details of Applicant

Applicant : TAEHA MECHATRONICS Co., Ltd.

Address : 421, Bakdal-ro, Manan-gu, Anyang-si, Gyeonggi-do, Republic of Korea, 13798

Contact Person : Lee, Kang-il

Phone No. : +82 31 463 7291

1.3. Details of Manufacturer

Company : Same as applicant

Address : Same as applicant

1.4. Description of EUT

Kind of Product	RMCU	
Model Name	RMCU M5	
Approved Module	FCC ID: XMR202212EG25GL	
Serial Number	005	
Power Supply	DC 12 ~ 24 V	
Rated Power	WCDMA II, V: 23 dBm LTE Band 2, 4, 5, 7, 12, 13, 26, 41: 23 dBm	
Frequency Range	WCDMA II: 1 850 MHz ~ 1 910 MHz WCDMA V: 824 MHz ~ 849 MHz 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 13: 777 MHz ~ 787 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	Shark Antenna	
Antenna Gain*	699 MHz ~ 716 MHz: 4.28 dB i 777 MHz ~ 787 MHz: 3.63 dB i 814 MHz ~ 849 MHz: 3.17 dB i 1 710 MHz ~ 1 755 MHz: 2.35 dB i 1 850 MHz ~ 1 910 MHz: 2.75 dB i 2 496 MHz ~ 2 690 MHz: 5.80 dB	
H/W Version	REV.A.02	
S/W Version	V1.0.0.0	

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Signal Generator	R&S	SMA100B	106887	Oct. 06, 2023	Annual	Oct. 06, 2024
Mobile Test Unit	R&S	CMW500	144034	Feb. 17, 2023	Annual	Feb. 17, 2024
Mobile Test Unit	Anritsu	MT8821C	6262116711	Apr. 04, 2023	Annual	Apr. 04, 2024
Power Meter	Anritsu	ML2495A	1223004	May 30, 2023	Annual	May 30, 2024
Power Sensor	Anritsu	MA2411B	1207272	May 30, 2023	Annual	May 30, 2024
High Pass Filter	Wainwright Instrument GmbH	WHKX10-900-1000-18000-40SS	7	Mar. 02, 2023	Annual	Mar. 02, 2024
High Pass Filter	Wainwright Instrument GmbH	WHK3.0/18G-10SS	344	May 16, 2023	Annual	May 16, 2024
High Pass Filter	Wainwright Instrument GmbH	WHNX7.5/26.5G-6SS	15	Jun. 02, 2023	Annual	Jun. 02, 2024
High Pass Filter	Wainwright Instrument GmbH	WLKX10-3555-4500-26500-40CD	1	Nov. 03, 2023	Annual	Nov. 03, 2024
Directional Coupler	KRYTAR	152613	122660	Jul. 13, 2023	Annual	Jul. 13, 2024
DC Power Supply	Agilent	U8002A	MY50060028	Mar. 09, 2023	Annual	Mar. 09, 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	May 17, 2023	Annual	May 17, 2024
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 21, 2013	Biennial	Aug. 21, 2025
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB9163	01126	Feb. 09, 2023	Annual	Feb. 09, 2024
Horn Antenna	R&S	HF906	100326	Feb. 28, 2023	Annual	Feb. 28, 2024
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9170	BBHA9170223	Oct. 10, 2023	Annual	Oct. 10, 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 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, 2023	Semi-Annual	Apr. 04, 2024
Coaxial Cable	Qualwave Inc.	QA500-18-NN-10 (10 m)	22200114	Oct. 04, 2023	Semi-Annual	Apr. 04, 2024
Coaxial Cable	RADIALL	TESTPRO 3	182287	Oct. 14, 2023	Semi-Annual	Apr. 14, 2024
Coaxial Cable	RADIALL	TESTPRO 3	182288	Oct. 14, 2023	Semi-Annual	Apr. 14, 2024
Coaxial Cable	RADIALL	TESTPRO 3	182291	Oct. 14, 2023	Semi-Annual	Apr. 14, 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(s)	Test Item(s)	Result
§2.1046 §22.913(a)(5) §24.232(c) §27.50(b)(9) §27.50(c)(9) §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(c)(2) §27.53(f) §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	N/A ¹⁾
§22.913(d) §24.232(d) §27.50(d)(5)	Peak-Average Ratio	N/A ¹⁾
§22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)(1) §27.53(m)(4) §90.691(a)	Spurious Emission at Antenna Terminal	N/A ¹⁾
§22.917(a) §24.238(a) §27.53(c)(2) §27.53(c)(4) §27.53(g) §27.53(h)(1) §27.53(m)(4) §90.691(a)	Band Edge	N/A ¹⁾
§2.1055 §22.355 §24.235 §27.54 §90.213(a)	Frequency Stability	N/A ¹⁾

Note;

1) The test items were used the results from the approved module.
 Approved module information
 FCC ID: XMR202212EG25GL

1.7. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL004792	2024.01.31	Initial

1.8. Sample Calculation for Offset

Where relevant, the following sample calculation is provided:

1.8.1. Conducted Test

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

1.8.2. Radiation test

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

1.9. Device Capabilities

This device contains the following capabilities;

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.

1.10. Worst Case Configuration and Mode

WCDMA

The worst-case is based on the average conducted output power measurement investigation results. Output power measurements were measured on RMC, HSDPA and HSUPA Modulation. Radiated spurious emission testing was performed using RMC modulations to represent the worst case.

LTE

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

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

Mode	Band	Worst Conducted Output Power (dBm)	
		DC 10.2 V	DC 27.6 V
WCDMA	II	22.98	<u>23.02</u>
	V	23.58	<u>23.62</u>
LTE	2	22.85	<u>22.93</u>
	4	22.41	<u>22.41</u>
	26/5_part 22	22.19	<u>22.24</u>
	7	21.79	<u>21.80</u>
	12	22.79	<u>22.85</u>
	13	21.70	<u>21.90</u>
	26_part 90	22.20	<u>22.31</u>
	41	21.75	<u>21.77</u>

The EUT can operate at input voltage of DC 12 V ~ DC 24 V.

The test is performed with ± 15 % of operating voltage at lowest and highest voltage.

DC 27.6 V of input voltages was tested as worst condition.

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
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 $k = 2$ to indicate a 95 % level of confidence.

1.12. Spot Check Data

Band	Test item	Frequency (MHz)	Limit	Approved Module		Basic Model		Deviation (dB)	Remark
				EG25-GL		RMCU M5			
				FCC ID: XMR202212EG25GL		FCC ID: 2AP7FRMCUM5			
				(dB m)	(W)	(dB m)	(W)		
WCDMA II	Conducted power	1 850 ~ 1 910	2 W	24.46	0.279	23.02	0.200	-1.44	-
WCDMA V		824 ~ 849	7 W	23.79	0.239	23.62	0.230	-0.17	-
LTE 2		1 850 ~ 1 910	2 W	23.54	0.226	22.93	0.196	-0.61	-
LTE 4		1710 ~ 1755	1 W	23.62	0.230	22.41	0.174	-1.21	-
LTE 26/5		824 ~ 849	7 W	23.59	0.229	22.24	0.167	-1.35	-
LTE 26		814 ~ 824	100 W	23.06	0.202	22.31	0.170	-0.75	-
LTE 7		2 500 ~ 2 570	2 W	23.32	0.215	21.80	0.151	-1.52	-
LTE 12		699 ~ 716	30 W	23.49	0.223	22.85	0.193	-0.64	-
LTE 13		777 ~ 787	30 W	23.06	0.202	21.90	0.155	-1.16	-
LTE 41		2 496 ~ 2 690	2 W	23.24	0.211	21.77	0.150	-1.47	-

Note;

All conducted output power was measured.
 Output power compared the approved module with the host equipment.

1.13. Emission Designator and Max Power

WCDMA

Band	Modulation	Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Power (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
WCDMA II	RMC	1 852.4	1 907.6	23.02	2.75	25.77	0.378	4M12F9W
WCDMA V	RMC	826.4	846.6	23.62	3.17	24.64	0.291	4M13F9W

LTE

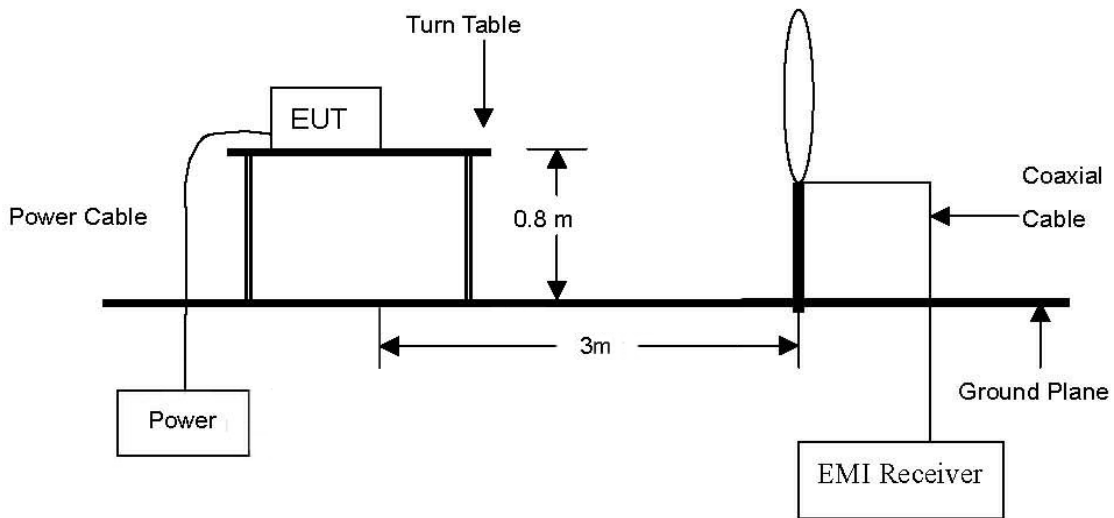
Band	Band width (MHz)	Modulation	Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. / E.I.R.P. Average (dB m)	E.R.P. / E.I.R.P. Average (W)	Emission Designator
2	1.4	QPSK	1 850.7	1 909.3	22.62	2.75	25.37	0.344	1M08G7D
		16QAM			21.45		24.20	0.263	1M08W7D
	3	QPSK	1 851.5	1 908.5	22.70		25.45	0.351	2M68G7D
		16QAM			21.61		24.36	0.273	2M68W7D
	5	QPSK	1 852.5	1 907.5	22.70		25.45	0.351	4M47G7D
		16QAM			21.57		24.32	0.270	4M47W7D
	10	QPSK	1 855	1 905	22.67		25.42	0.348	8M92G7D
		16QAM			21.70		24.45	0.279	8M90W7D
	15	QPSK	1 857.5	1 902.5	22.71		25.46	0.352	13M4G7D
		16QAM			21.64		24.39	0.275	13M4W7D
	20	QPSK	1 860	1 900	22.93		25.68	0.370	17M8G7D
		16QAM			21.78		24.53	0.284	17M8W7D
4	1.4	QPSK	1 710.7	1 754.3	22.20	2.35	24.55	0.285	1M08G7D
		16QAM			21.19		23.54	0.226	1M08W7D
	3	QPSK	1 711.5	1 753.5	22.19		24.54	0.284	2M68G7D
		16QAM			21.33		23.68	0.233	2M68W7D
	5	QPSK	1 712.5	1 752.5	22.16		24.51	0.282	4M47G7D
		16QAM			21.13		23.48	0.223	4M47W7D
	10	QPSK	1 715	1 750	22.31		24.66	0.292	8M93G7D
		16QAM			21.26		23.61	0.230	8M90W7D
	15	QPSK	1 717.5	1 747.5	22.41		24.76	0.299	13M4G7D
		16QAM			21.34		23.69	0.234	13M4W7D
	20	QPSK	1 720	1 745	22.38		24.73	0.297	17M8G7D
		16QAM			21.28		23.63	0.231	17M8W7D
7	5	QPSK	2 502.5	2 567.5	21.62	5.80	27.42	0.552	4M47G7D
		16QAM			20.35		26.15	0.412	4M47W7D
	10	QPSK	2 505	2 565	21.67		27.47	0.558	8M92G7D
		16QAM			20.64		26.44	0.441	8M90W7D
	15	QPSK	2 507.5	2 562.5	21.67		27.47	0.558	13M4G7D
		16QAM			20.65		26.45	0.442	13M4W7D
	20	QPSK	2 510	2 560	21.80		27.60	0.575	17M8G7D
		16QAM			20.78		26.58	0.455	17M8W7D

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		
12	1.4	QPSK	699.7	715.3	22.69	4.28	24.82	0.303	1M08G7D		
		16QAM			21.62		23.75	0.237	1M08W7D		
	3	QPSK	700.5	714.5	22.78		24.91	0.310	2M68G7D		
		16QAM			21.75		23.88	0.244	2M68W7D		
	5	QPSK	701.5	713.5	22.66		24.79	0.301	4M47G7D		
		16QAM			21.90		24.03	0.253	4M47W7D		
	10	QPSK	704	711	22.85		24.98	0.315	8M93G7D		
		16QAM			21.86		23.99	0.251	8M91W7D		
13	5	QPSK	779.5	784.5	21.67	3.63	23.15	0.207	4M47G7D		
		16QAM			21.12		22.60	0.182	4M47W7D		
	10	QPSK	782	782	21.90		23.38	0.218	8M92G7D		
		16QAM			20.40		21.88	0.154	8M89W7D		
26/5 Part 22	1.4	QPSK	824.7	848.3	22.23	3.17	23.25	0.211	1M08G7D		
		16QAM			21.05		22.07	0.161	1M08W7D		
	3	QPSK	825.5	847.5	22.17		23.19	0.208	2M69G7D		
		16QAM			21.08		22.10	0.162	2M68W7D		
	5	QPSK	826.5	846.5	22.08		23.10	0.204	4M47G7D		
		16QAM			21.04		22.06	0.161	4M46W7D		
	10	QPSK	829	844	22.20		23.22	0.210	8M92G7D		
		16QAM			21.13		22.15	0.164	8M90W7D		
26 Part 22	15	QPSK	831.5	841.5	22.24	23.26	0.212	13M4G7D			
		16QAM			21.05	22.07	0.161	13M4W7D			
26 Part 90	1.4	QPSK	814.7	823.3	22.01	3.17	23.03	0.201	1M08G7D		
		16QAM			20.97		21.99	0.158	1M08W7D		
	3	QPSK	815.5	822.5	22.08		23.10	0.204	2M68G7D		
		16QAM			20.86		21.90	0.155	2M68W7D		
	5	QPSK	816.5	821.5	22.02		23.04	0.201	4M47G7D		
		16QAM			20.96		21.98	0.158	4M47W7D		
	10	QPSK	819		22.31		23.33	0.215	8M93G7D		
		16QAM			21.07		22.09	0.162	8M91W7D		
	15	QPSK	821.5		22.05		23.07	0.203	13M4G7D		
		16QAM			20.90		21.92	0.156	13M4W7D		
	41	5	QPSK	2 498.5	2 687.5		21.77	5.80	27.57	0.571	4M47G7D
			16QAM				20.69		26.49	0.446	4M46W7D
10		QPSK	2 501	2 685	21.45	27.25	0.531		8M92G7D		
		16QAM			20.69	26.49	0.446		8M91W7D		
15		QPSK	2 503.5	2 682.5	21.37	27.17	0.521		13M4G7D		
		16QAM			20.44	26.24	0.421		13M4W7D		
20		QPSK	2 506	2 680	21.47	27.27	0.533		17M8G7D		
		16QAM			20.50	26.30	0.427		17M8W7D		

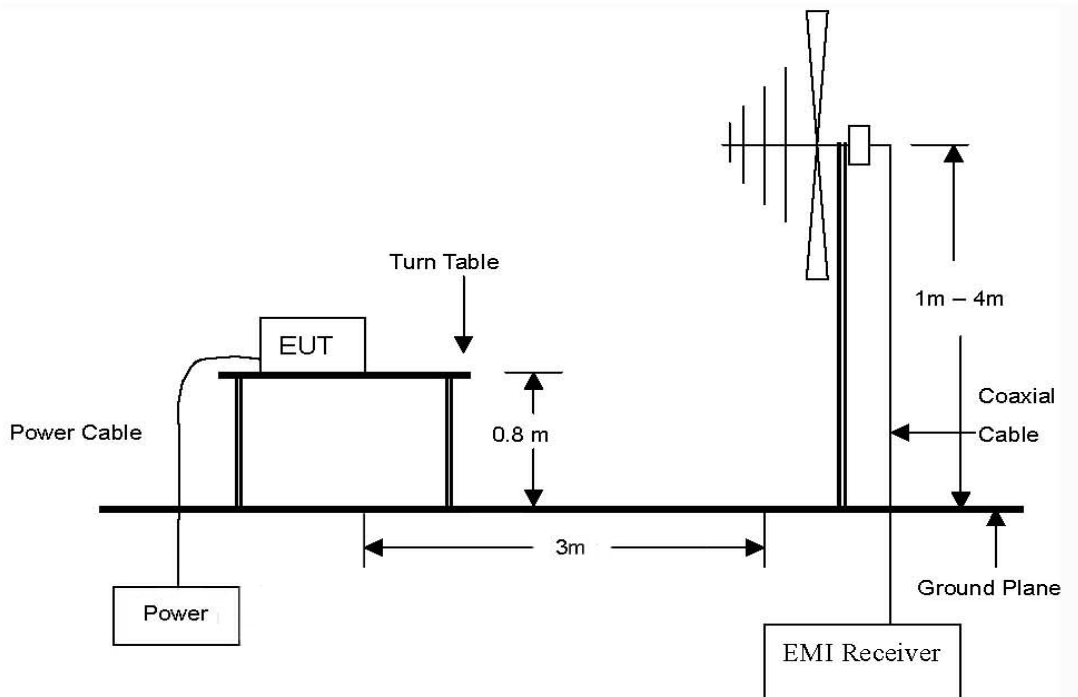
2. E.R.P. / E.I.R.P. & Radiated Spurious Emission

2.1. Test setup

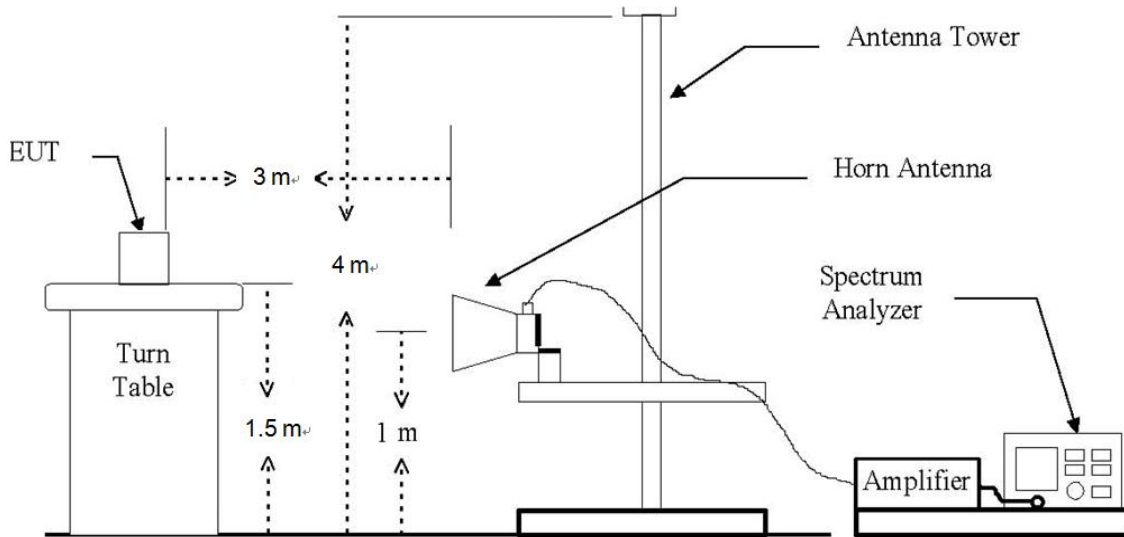
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz.



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(b)(9), control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands and fixed stations transmitting in the 787-788 MHz and 805-806 MHz bands are limited to 30 watts ERP.
- §27.50(c)(9), control and mobile stations in the 698-746 MHz band are limited to 30 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 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(c)(2), on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- §27.53(f), for operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1 559-1 610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. 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 $43 + 10 \log (P)$ 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 2 490.5 MHz and 2 496 MHz and $55 + 10 \log_{10} (P)$ dB at or below 2 490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2 495 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

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:

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

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 Output Power & 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 \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. from conducted RF output power measurements

WCDMA

Band	Frequency (MHz)	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
WCDMA II	1 850 ~ 1 910	23.02	0.200	2.75	25.77	0.378			2 W E.I.R.P.
WCDMA V	824 ~ 849	23.62	0.230	3.17	26.79	0.478	24.64	0.291	7 W E.R.P.

LTE

Band	Frequency (MHz)	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
2	1 850 ~ 1 910	22.93	0.196	2.75	25.68	0.370			2 W E.I.R.P.
4	1 710 ~ 1 755	22.41	0.174	2.35	24.76	0.299			1 W E.I.R.P.
26/5 Part 22	824 ~ 849	22.24	0.167	3.17	25.41	0.348	23.26	0.212	7 W E.R.P.
26 Part 90	814 ~ 824	22.31	0.170	3.17	25.48	0.353	23.33	0.215	100 W
7	2 500 ~ 2 570	21.80	0.151	5.80	27.6	0.575			2 W E.I.R.P.
12	699 ~ 716	22.85	0.193	4.28	27.13	0.516	24.98	0.315	30 W E.R.P.
13	777 ~ 787	21.90	0.155	3.63	25.53	0.357	23.38	0.218	30 W E.R.P.
41	2 496 ~ 2 690	21.77	0.150	5.80	27.57	0.571			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. Radiated Spurious Emissions

WCDMA II

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 (1 852.4 MHz)									
3 707.15	62.26	H	32.23	-30.56	63.93	-95.26	-31.33	-13	18.33
3 707.35	56.14	V	32.23	-30.56	57.81	-95.26	-37.45	-13	24.45
5 560.05	56.06	H	34.20	-28.74	61.52	-95.26	-33.74	-13	20.74
5 560.70	51.79	V	34.20	-28.67	57.32	-95.26	-37.94	-13	24.94
7 410.55	41.46	H	36.20	-27.46	50.20	-95.26	-45.06	-13	32.06
7 409.50	42.70	V	36.20	-27.43	51.47	-95.26	-43.79	-13	30.79
Above 7 500.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 880.0 MHz)									
3 761.60	70.56	H	32.40	-31.19	71.77	-95.26	-23.49	-13	10.49
3 758.55	62.91	V	32.40	-31.16	64.15	-95.26	-31.11	-13	18.11
5 637.65	58.40	H	34.12	-27.27	65.25	-95.26	-30.01	-13	17.01
5 643.60	55.57	V	34.11	-28.36	61.32	-95.26	-33.94	-13	20.94
7 517.20	39.11	H	36.17	-27.49	47.79	-95.26	-47.47	-13	34.47
7 517.00	39.79	V	36.17	-27.48	48.48	-95.26	-46.78	-13	33.78
Above 7 600.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 907.6 MHz)									
3 813.75	67.36	H	32.37	-29.89	69.84	-95.26	-25.42	-13	12.42
3 813.70	58.40	V	32.37	-29.89	60.88	-95.26	-34.38	-13	21.38
5 725.05	60.08	H	34.20	-28.84	65.44	-95.26	-29.82	-13	16.82
5 726.40	57.74	V	34.21	-28.79	63.16	-95.26	-32.10	-13	19.10
7 629.60	43.12	H	36.00	-27.53	51.59	-95.26	-43.67	-13	30.67
7 629.70	44.49	V	36.00	-27.53	52.96	-95.26	-42.30	-13	29.30
Above 7 700.00	Not detected	-	-	-	-	-	-	-	-

WCDMA V

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 (826.4 MHz)									
1 650.70	66.89	H	25.71	-36.60	56.00	-97.41	-41.41	-13	28.41
1 651.55	74.96	V	25.72	-36.59	64.09	-97.41	-33.32	-13	20.32
2 477.15	58.70	H	28.25	-33.10	53.85	-97.41	-43.56	-13	30.56
2 475.65	56.62	V	28.25	-33.02	51.85	-97.41	-45.56	-13	32.56
3 300.85	64.51	H	30.70	-32.90	62.31	-97.41	-35.10	-13	22.10
3 300.10	59.02	V	30.70	-32.89	56.83	-97.41	-40.58	-13	27.58
4 131.45	50.05	H	32.14	-29.70	52.49	-97.41	-44.92	-13	31.92
4 131.30	48.49	V	32.14	-29.69	50.94	-97.41	-46.47	-13	33.47
4 965.00	38.55	H	33.20	-29.51	42.24	-97.41	-55.17	-13	42.17
4 963.70	38.32	V	33.20	-29.43	42.09	-97.41	-55.32	-13	42.32
7 449.30	37.37	H	36.20	-27.36	46.21	-97.41	-51.20	-13	38.20
7 448.40	36.22	V	36.20	-27.38	45.04	-97.41	-52.37	-13	39.37
Above 7 500.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (835.0 MHz)									
1 670.85	62.90	H	26.03	-36.25	52.68	-97.41	-44.73	-13	31.73
1 674.65	71.28	V	26.09	-36.19	61.18	-97.41	-36.23	-13	23.23
2 506.35	56.85	H	28.33	-34.38	50.80	-97.41	-46.61	-13	33.61
2 506.75	54.19	V	28.33	-34.38	48.14	-97.41	-49.27	-13	36.27
3 351.30	66.50	H	30.71	-32.72	64.49	-97.41	-32.92	-13	19.92
3 351.40	61.49	V	30.71	-32.72	59.48	-97.41	-37.93	-13	24.93
4 188.10	52.77	H	32.18	-31.22	53.73	-97.41	-43.68	-13	30.68
4 188.00	51.82	V	32.18	-31.22	52.78	-97.41	-44.63	-13	31.63
5 022.40	41.92	H	33.29	-28.78	46.43	-97.41	-50.98	-13	37.98
5 024.90	38.93	V	33.30	-28.73	43.50	-97.41	-53.91	-13	40.91
7 518.10	39.02	H	36.16	-27.49	47.69	-97.41	-49.72	-13	36.72
7 541.90	35.45	V	36.12	-27.11	44.46	-97.41	-52.95	-13	39.95
Above 7 600.00	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.R.P. (dB m)	Limit (dB m)	Margin (dB)
High Channel (846.6 MHz)									
1 694.50	61.69	H	26.41	-36.25	51.85	-97.41	-45.56	-13	32.56
1 694.65	69.74	V	26.41	-36.25	59.90	-97.41	-37.51	-13	24.51
2 536.30	53.56	H	28.45	-34.04	47.97	-97.41	-49.44	-13	36.44
2 536.75	52.37	V	28.45	-34.03	46.79	-97.41	-50.62	-13	37.62
3 389.35	66.83	H	30.94	-32.44	65.33	-97.41	-32.08	-13	19.08
3 391.60	62.80	V	30.95	-32.38	61.37	-97.41	-36.04	-13	23.04
4 236.80	55.75	H	32.20	-29.49	58.46	-97.41	-38.95	-13	25.95
4 237.80	56.34	V	32.20	-29.55	58.99	-97.41	-38.42	-13	25.42
5 084.70	47.41	H	33.54	-29.98	50.97	-97.41	-46.44	-13	33.44
5 084.10	44.34	V	33.54	-29.98	47.90	-97.41	-49.51	-13	36.51
7 626.60	38.56	H	36.00	-27.56	47.00	-97.41	-50.41	-13	37.41
7 631.00	37.16	V	36.00	-27.52	45.64	-97.41	-51.77	-13	38.77
Above 7 700.00	Not detected	-	-	-	-	-	-	-	-

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 MHz)									
3 720.22	75.41	H	32.28	-30.96	76.73	-95.26	-18.53	-13	5.53
3 720.22	62.96	V	32.28	-30.96	64.28	-95.26	-30.98	-13	17.98
5 580.30	62.19	H	34.20	-27.32	69.07	-95.26	-26.19	-13	13.19
5 580.26	61.04	V	34.20	-27.32	67.92	-95.26	-27.34	-13	14.34
7 440.36	52.15	H	36.20	-27.53	60.82	-95.26	-34.44	-13	21.44
7 440.42	52.82	V	36.20	-27.52	61.50	-95.26	-33.76	-13	20.76
9 300.54	43.19	H	37.20	-26.75	53.64	-95.26	-41.62	-13	28.62
9 300.62	43.01	V	37.20	-26.75	53.46	-95.26	-41.80	-13	28.80
Above 9 400.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 880 MHz)									
3 760.18	79.16	H	32.40	-31.18	80.38	-95.26	-14.88	-13	1.88
3 760.24	70.69	V	32.40	-31.18	71.91	-95.26	-23.35	-13	10.35
5 640.28	63.08	H	34.12	-27.75	69.45	-95.26	-25.81	-13	12.81
5 640.18	62.15	V	34.12	-27.73	68.54	-95.26	-26.72	-13	13.72
7 520.40	51.97	H	36.16	-27.52	60.61	-95.26	-34.65	-13	21.65
7 520.32	52.86	V	36.16	-27.52	61.50	-95.26	-33.76	-13	20.76
9 400.45	43.53	H	37.50	-26.96	54.07	-95.26	-41.19	-13	28.19
9 400.45	44.71	V	37.50	-26.96	55.25	-95.26	-40.01	-13	27.01
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 900 MHz)									
3 800.22	77.45	H	32.40	-30.14	79.71	-95.26	-15.55	-13	2.55
3 800.18	67.75	V	32.40	-30.14	70.01	-95.26	-25.25	-13	12.25
5 700.40	62.57	H	34.10	-28.21	68.46	-95.26	-26.80	-13	13.80
5 700.28	60.12	V	34.10	-28.21	66.01	-95.26	-29.25	-13	16.25
7 600.26	53.50	H	36.00	-27.54	61.96	-95.26	-33.30	-13	20.30
7 600.35	56.55	V	36.00	-27.54	65.01	-95.26	-30.25	-13	17.25
9 500.54	45.06	H	37.60	-26.67	55.99	-95.26	-39.27	-13	26.27
9 500.36	46.03	V	37.60	-26.67	56.96	-95.26	-38.30	-13	25.30
Above 9 600.00	Not detected	-	-	-	-	-	-	-	-

LTE band 4 (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.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 717.5 MHz)									
3 435.43	70.55	H	31.14	-31.70	69.99	-95.26	-25.27	-13	12.27
3 435.35	70.35	V	31.14	-31.70	69.79	-95.26	-25.47	-13	12.47
5 153.17	56.72	H	33.61	-29.73	60.60	-95.26	-34.66	-13	21.66
5 153.11	62.97	V	33.61	-29.74	66.84	-95.26	-28.42	-13	15.42
6 870.67	47.80	H	35.56	-27.46	55.90	-95.26	-39.36	-13	26.36
6 870.75	51.59	V	35.56	-27.45	59.70	-95.26	-35.56	-13	22.56
8 588.40	41.44	H	36.55	-27.46	50.53	-95.26	-44.73	-13	31.73
8 588.37	41.23	V	36.55	-27.46	50.32	-95.26	-44.94	-13	31.94
Above 8 600.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 732.5 MHz)									
3 465.53	70.33	H	31.23	-32.39	69.17	-95.26	-26.09	-13	13.09
3 465.42	69.99	V	31.23	-32.39	68.83	-95.26	-26.43	-13	13.43
5 198.05	57.94	H	33.79	-29.88	61.85	-95.26	-33.41	-13	20.41
5 198.13	63.63	V	33.79	-29.88	67.54	-95.26	-27.72	-13	14.72
6 930.83	45.67	H	35.50	-27.94	53.23	-95.26	-42.03	-13	29.03
6 930.83	51.11	V	35.50	-27.94	58.67	-95.26	-36.59	-13	23.59
8 663.32	44.81	H	36.90	-27.04	54.67	-95.26	-40.59	-13	27.59
8 663.31	38.74	V	36.90	-27.04	48.60	-95.26	-46.66	-13	33.66
Above 8 700.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 747.5 MHz)									
3 495.23	62.87	H	31.29	-32.48	61.68	-95.26	-33.58	-13	20.58
3 495.37	67.32	V	31.29	-32.49	66.12	-95.26	-29.14	-13	16.14
5 243.03	54.14	H	33.71	-29.97	57.88	-95.26	-37.38	-13	24.38
5 243.09	61.66	V	33.71	-29.97	65.40	-95.26	-29.86	-13	16.86
6 990.54	50.49	H	35.58	-27.37	58.70	-95.26	-36.56	-13	23.56
6 990.58	51.31	V	35.58	-27.37	59.52	-95.26	-35.74	-13	22.74
8 738.57	40.92	H	36.98	-26.89	51.01	-95.26	-44.25	-13	31.25
8 738.37	36.48	V	36.98	-26.89	46.57	-95.26	-48.69	-13	35.69
Above 8 800.00	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 MHz)									
5 020.25	58.62	H	33.28	-28.82	63.08	-95.26	-32.18	-25	7.18
5 020.24	60.15	V	33.28	-28.82	64.61	-95.26	-30.65	-25	5.65
7 530.33	50.50	H	36.14	-27.42	59.22	-95.26	-36.04	-25	11.04
7 530.30	51.72	V	36.14	-27.42	60.44	-95.26	-34.82	-25	9.82
10 040.34	37.36	H	37.88	-26.20	49.04	-95.26	-46.22	-25	21.22
10 040.43	41.76	V	37.88	-26.20	53.44	-95.26	-41.82	-25	16.82
Above 10 100.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 535 MHz)									
5 070.11	60.14	H	33.48	-29.63	63.99	-95.26	-31.27	-25	6.27
5 070.17	59.11	V	33.48	-29.63	62.96	-95.26	-32.30	-25	7.30
7 605.20	43.41	H	36.00	-27.55	51.86	-95.26	-43.40	-25	18.40
7 605.19	51.01	V	36.00	-27.55	59.46	-95.26	-35.80	-25	10.80
10 140.31	38.20	H	37.72	-25.79	50.13	-95.26	-45.13	-25	20.13
10 140.60	40.75	V	37.72	-25.79	52.68	-95.26	-42.58	-25	17.58
Above 10 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 560 MHz)									
5 120.26	61.77	H	33.60	-29.94	65.43	-95.26	-29.83	-25	4.83
5 120.22	59.52	V	33.60	-29.94	63.18	-95.26	-32.08	-25	7.08
7 680.36	45.05	H	36.06	-26.52	54.59	-95.26	-40.67	-25	15.67
7 680.30	50.92	V	36.06	-26.51	60.47	-95.26	-34.79	-25	9.79
10 240.39	37.81	H	37.88	-26.32	49.37	-95.26	-45.89	-25	20.89
10 240.41	43.01	V	37.88	-26.32	54.57	-95.26	-40.69	-25	15.69
Above 10 300.00	Not detected	-	-	-	-	-	-	-	-

LTE band 12 (10 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 (704 MHz)									
1 408.24	51.76	H	25.27	-37.42	39.61	-97.41	-57.80	-13	44.80
1 408.26	55.05	V	25.27	-37.42	42.90	-97.41	-54.51	-13	41.51
2 112.19	58.39	H	27.75	-33.88	52.26	-97.41	-45.15	-13	32.15
2 112.25	64.83	V	27.75	-33.89	58.69	-97.41	-38.72	-13	25.72
2 816.52	50.87	H	29.17	-33.65	46.39	-97.41	-51.02	-13	38.02
2 816.34	52.27	V	29.17	-33.65	47.79	-97.41	-49.62	-13	36.62
3 520.43	48.55	H	31.30	-32.51	47.34	-97.41	-50.07	-13	37.07
3 520.62	52.93	V	31.30	-32.51	51.72	-97.41	-45.69	-13	32.69
4 224.71	47.83	H	32.20	-28.78	51.25	-97.41	-46.16	-13	33.16
4 224.56	48.68	V	32.20	-28.79	52.09	-97.41	-45.32	-13	32.32
4 928.79	40.81	H	33.20	-29.08	44.93	-97.41	-52.48	-13	39.48
4 928.77	40.17	V	33.20	-29.08	44.29	-97.41	-53.12	-13	40.12
Above 5 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (707.5 MHz)									
1 415.17	58.46	H	25.24	-37.39	46.31	-97.41	-51.10	-13	38.10
1 414.15	60.85	V	25.24	-37.40	48.69	-97.41	-48.72	-13	35.72
2 122.91	59.92	H	27.71	-34.08	53.55	-97.41	-43.86	-13	30.86
2 122.83	66.06	V	27.71	-34.08	59.69	-97.41	-37.72	-13	24.72
2 830.40	51.60	H	29.22	-33.63	47.19	-97.41	-50.22	-13	37.22
2 830.36	53.16	V	29.22	-33.63	48.75	-97.41	-48.66	-13	35.66
3 537.98	49.08	H	31.30	-32.54	47.84	-97.41	-49.57	-13	36.57
3 537.72	53.68	V	31.30	-32.54	52.44	-97.41	-44.97	-13	31.97
4 245.63	45.48	H	32.20	-30.05	47.63	-97.41	-49.78	-13	36.78
4 245.43	48.23	V	32.20	-30.04	50.39	-97.41	-47.02	-13	34.02
4 953.28	39.99	H	33.20	-28.81	44.38	-97.41	-53.03	-13	40.03
4 953.28	41.98	V	33.20	-28.81	46.37	-97.41	-51.04	-13	38.04
Above 5 000.00	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.R.P. (dB m)	Limit (dB m)	Margin (dB)
High Channel (711 MHz)									
1 422.19	61.54	H	25.21	-37.37	49.38	-97.41	-48.03	-13	35.03
1 422.18	64.60	V	25.21	-37.37	52.44	-97.41	-44.97	-13	31.97
2 133.27	65.25	H	27.67	-34.38	58.54	-97.41	-38.87	-13	25.87
2 133.21	69.00	V	27.67	-34.38	62.29	-97.41	-35.12	-13	22.12
2 844.72	54.79	H	29.28	-33.76	50.31	-97.41	-47.10	-13	34.10
2 844.48	53.49	V	29.28	-33.76	49.01	-97.41	-48.40	-13	35.40
3 555.37	56.30	H	31.31	-32.35	55.26	-97.41	-42.15	-13	29.15
3 555.35	53.39	V	31.31	-32.35	52.35	-97.41	-45.06	-13	32.06
4 266.69	45.88	H	32.20	-30.66	47.42	-97.41	-49.99	-13	36.99
4 266.68	47.37	V	32.20	-30.66	48.91	-97.41	-48.50	-13	35.50
4 977.67	43.70	H	33.20	-30.01	46.89	-97.41	-50.52	-13	37.52
4 977.56	43.72	V	33.20	-30.02	46.90	-97.41	-50.51	-13	37.51
Above 5 000.00	Not detected	-	-	-	-	-	-	-	-

LTE band 13 (10 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./E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (782.0 MHz)									
1 564.30	65.08	H	25.33	-36.22	54.19	-95.26	-41.07	-40	1.07
1 564.21	63.84	V	25.33	-36.22	52.95	-95.26	-42.31	-40	2.31
2 346.34	63.32	H	28.19	-34.35	57.16	-97.41	-40.25	-13	27.25
2 346.32	61.58	V	28.19	-34.34	55.43	-97.41	-41.98	-13	28.98
3 128.40	61.44	H	30.26	-31.97	59.73	-97.41	-37.68	-13	24.68
3 128.43	64.61	V	30.26	-31.97	62.90	-97.41	-34.51	-13	21.51
3 910.60	49.36	H	32.28	-29.96	51.68	-97.41	-45.73	-13	32.73
3 910.54	46.87	V	32.28	-29.96	49.19	-97.41	-48.22	-13	35.22
4 692.42	46.21	H	32.28	-30.30	48.19	-97.41	-49.22	-13	36.22
4 692.47	50.08	V	32.28	-30.30	52.06	-97.41	-45.35	-13	32.35
5 474.57	38.91	H	34.10	-29.62	43.39	-97.41	-54.02	-13	41.02
5 474.66	36.37	V	34.10	-29.62	40.85	-97.41	-56.56	-13	43.56
Above 5 500.00	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)									
1 649.72	74.54	H	25.70	-36.61	63.63	-97.41	-33.78	-13	20.78
1 649.70	81.33	V	25.70	-36.61	70.42	-97.41	-26.99	-13	13.99
2 474.51	67.61	H	28.25	-33.00	62.86	-97.41	-34.55	-13	21.55
2 474.52	64.25	V	28.25	-33.00	59.50	-97.41	-37.91	-13	24.91
3 299.42	70.43	H	30.70	-32.89	68.24	-97.41	-29.17	-13	16.17
3 299.39	69.20	V	30.70	-32.89	67.01	-97.41	-30.40	-13	17.40
4 124.22	63.20	H	32.15	-29.36	65.99	-97.41	-31.42	-13	18.42
4 124.20	60.57	V	32.15	-29.36	63.36	-97.41	-34.05	-13	21.05
4 949.03	53.93	H	33.20	-28.63	58.50	-97.41	-38.91	-13	25.91
4 949.03	52.18	V	33.20	-28.63	56.75	-97.41	-40.66	-13	27.66
5 773.96	36.73	H	34.35	-28.92	42.16	-97.41	-55.25	-13	42.25
5 773.95	37.48	V	34.35	-28.92	42.91	-97.41	-54.50	-13	41.50
7 423.54	48.48	H	36.20	-27.78	56.90	-97.41	-40.51	-13	27.51
7 423.72	50.36	V	36.20	-27.78	58.78	-97.41	-38.63	-13	25.63
8 248.51	38.67	H	36.60	-27.39	47.88	-97.41	-49.53	-13	36.53
8 248.59	37.37	V	36.60	-27.39	46.58	-97.41	-50.83	-13	37.83
Above 8 300.00	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.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (841.5 MHz)									
1 669.71	70.40	H	26.02	-36.27	60.15	-97.41	-37.26	-13	24.26
1 669.70	77.34	V	26.02	-36.27	67.09	-97.41	-30.32	-13	17.32
2 504.60	66.44	H	28.32	-34.39	60.37	-97.41	-37.04	-13	24.04
2 504.57	61.41	V	28.32	-34.39	55.34	-97.41	-42.07	-13	29.07
3 339.34	70.71	H	30.70	-32.86	68.55	-97.41	-28.86	-13	15.86
3 339.42	67.34	V	30.70	-32.86	65.18	-97.41	-32.23	-13	19.23
4 174.22	64.14	H	32.15	-31.26	65.03	-97.41	-32.38	-13	19.38
4 174.32	62.89	V	32.15	-31.26	63.78	-97.41	-33.63	-13	20.63
5 008.94	55.64	H	33.24	-29.03	59.85	-97.41	-37.56	-13	24.56
5 009.06	53.80	V	33.24	-29.03	58.01	-97.41	-39.40	-13	26.40
5 844.00	42.96	H	34.40	-28.82	48.54	-97.41	-48.87	-13	35.87
5 843.98	42.98	V	34.40	-28.82	48.56	-97.41	-48.85	-13	35.85
7 513.63	48.13	H	36.17	-27.45	56.85	-97.41	-40.56	-13	27.56
7 513.53	48.99	V	36.17	-27.45	57.71	-97.41	-39.70	-13	26.70
8 348.04	37.54	H	36.50	-27.14	46.90	-97.41	-50.51	-13	37.51
8 348.26	38.60	V	36.50	-27.15	47.95	-97.41	-49.46	-13	36.46
Above 8 400.00	Not detected	-	-	-	-	-	-	-	-

LTE band 26_Part 90 (10 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)
Middle Channel (819.0 MHz)									
1 648.88	75.90	H	25.69	-36.60	64.99	-97.41	-32.42	-13	19.42
1 648.82	82.02	V	25.69	-36.60	71.11	-97.41	-26.30	-13	13.30
2 470.23	67.55	H	28.24	-33.20	62.59	-97.41	-34.82	-13	21.82
2 470.24	64.19	V	28.24	-33.20	59.23	-97.41	-38.18	-13	25.18
3 293.51	71.46	H	30.70	-32.90	69.26	-97.41	-28.15	-13	15.15
3 293.42	68.23	V	30.70	-32.90	66.03	-97.41	-31.38	-13	18.38
4 117.03	61.54	H	32.17	-29.07	64.64	-97.41	-32.77	-13	19.77
4 117.15	58.64	V	32.17	-29.08	61.73	-97.41	-35.68	-13	22.68
4 940.57	51.82	H	33.20	-28.82	56.20	-97.41	-41.21	-13	28.21
4 940.64	52.54	V	33.20	-28.82	56.92	-97.41	-40.49	-13	27.49
5 763.73	35.93	H	34.33	-28.50	41.76	-97.41	-55.65	-13	42.65
5 763.90	40.46	V	34.33	-28.51	46.28	-97.41	-51.13	-13	38.13
6 587.45	37.56	H	34.97	-27.96	44.57	-97.41	-52.84	-13	39.84
6 587.45	42.66	V	34.97	-27.96	49.67	-97.41	-47.74	-13	34.74
7 410.80	47.79	H	36.20	-27.46	56.53	-97.41	-40.88	-13	27.88
7 410.69	50.03	V	36.20	-27.46	58.77	-97.41	-38.64	-13	25.64
8 233.98	40.24	H	36.57	-27.34	49.47	-97.41	-47.94	-13	34.94
8 234.11	38.85	V	36.57	-27.34	48.08	-97.41	-49.33	-13	36.33
Above 8 300.00	Not detected	-	-	-	-	-	-	-	-

LTE band 41 (5 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 (2 498.5 MHz)									
4 997.42	60.79	H	33.20	-29.30	64.69	-95.26	-30.57	-25	5.57
4 997.45	62.69	V	33.20	-29.30	66.59	-95.26	-28.67	-25	3.67
7 496.10	51.10	H	36.20	-27.42	59.88	-95.26	-35.38	-25	10.38
7 496.06	56.44	V	36.20	-27.42	65.22	-95.26	-30.04	-25	5.04
9 994.60	35.71	H	37.78	-26.28	47.21	-95.26	-48.05	-25	23.05
9 994.85	40.89	V	37.78	-26.30	52.37	-95.26	-42.89	-25	17.89
Above 10 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 593.0 MHz)									
5 186.33	60.15	H	33.75	-29.53	64.37	-95.26	-30.89	-25	5.89
5 186.40	61.16	V	33.75	-29.54	65.37	-95.26	-29.89	-25	4.89
7 779.43	48.50	H	36.06	-26.08	58.48	-95.26	-36.78	-25	11.78
7 779.48	51.49	V	36.06	-26.08	61.47	-95.26	-33.79	-25	8.79
10 372.42	31.34	H	37.74	-25.73	43.35	-95.26	-51.91	-25	26.91
10 372.72	38.45	V	37.75	-25.73	50.47	-95.26	-44.79	-25	19.79
Above 10 400.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 687.5 MHz)									
5 375.42	59.40	H	34.15	-27.32	66.23	-95.26	-29.03	-25	4.03
5 375.36	58.94	V	34.15	-27.32	65.77	-95.26	-29.49	-25	4.49
8 062.96	47.28	H	36.23	-26.32	57.19	-95.26	-38.07	-25	13.07
8 063.04	50.23	V	36.23	-26.33	60.13	-95.26	-35.13	-25	10.13
10 750.96	37.60	H	38.10	-25.97	49.73	-95.26	-45.53	-25	20.53
10 750.72	41.06	V	38.10	-25.98	53.18	-95.26	-42.08	-25	17.08
Above 10 800.00	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 ANSI C63.26-2015 5.2.7 and 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

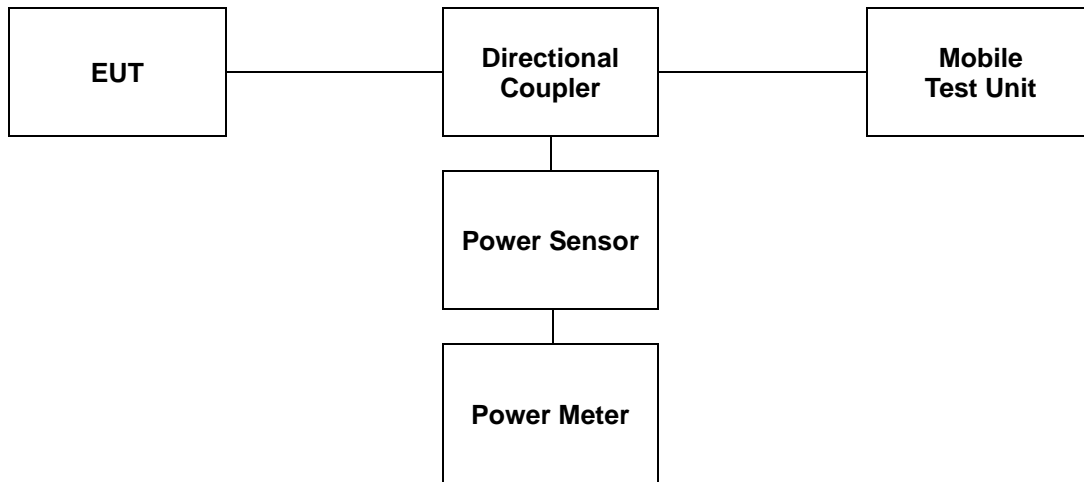
3.1. Limit

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

3.2. Test Procedure

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

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



3.3. Test Result

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

WCDMA II							
Mode	3GPP 34.121 Subtest	Conducted Output Power					
		9262 (1 852.4 MHz)		9400 (1 880.0 MHz)		9538 (1 907.6 MHz)	
		(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
Release 99	12.2 Kbps RMC	22.33	0.171	23.02	0.200	22.56	0.180
HSDPA	Subtest 1	22.14	0.164	22.08	0.161	21.73	0.149
	Subtest 2	22.16	0.164	22.17	0.165	21.88	0.154
	Subtest 3	21.24	0.133	21.30	0.135	21.36	0.137
	Subtest 4	21.50	0.141	21.48	0.141	21.44	0.139
HSUPA	Subtest 1	21.81	0.152	21.27	0.134	21.58	0.144
	Subtest 2	20.08	0.102	19.83	0.096	19.76	0.095
	Subtest 3	20.67	0.117	20.97	0.125	20.85	0.122
	Subtest 4	20.94	0.124	21.17	0.131	20.50	0.112
	Subtest 5	21.92	0.156	22.09	0.162	21.82	0.152
WCDMA V							
Mode	3GPP 34.121 Subtest	Conducted Output Power					
		4132 (826.4 MHz)		4183 (836.6 MHz)		4233 (846.6 MHz)	
		(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
Release 99	12.2 Kbps RMC	23.62	0.230	23.57	0.228	23.54	0.226
HSDPA	Subtest 1	21.98	0.158	22.03	0.160	21.88	0.154
	Subtest 2	22.10	0.162	22.15	0.164	21.92	0.156
	Subtest 3	21.31	0.135	21.20	0.132	21.05	0.127
	Subtest 4	21.21	0.132	21.18	0.131	21.07	0.128
HSUPA	Subtest 1	21.73	0.149	20.6	0.115	21.26	0.134
	Subtest 2	20.72	0.118	20.65	0.116	20.26	0.106
	Subtest 3	20.66	0.116	20.76	0.119	20.08	0.102
	Subtest 4	21.18	0.131	21.08	0.128	20.91	0.123
	Subtest 5	21.72	0.149	21.68	0.147	21.63	0.146

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	22.20	0.166	22.51	0.178	22.49	0.177
		1	3	22.32	0.171	22.60	0.182	22.47	0.177
		1	5	22.18	0.165	22.48	0.177	22.53	0.179
		3	0	22.25	0.168	22.46	0.176	22.52	0.179
		3	2	22.34	0.171	22.62	0.183	22.39	0.173
		3	3	22.25	0.168	22.62	0.183	22.50	0.178
		6	0	21.23	0.133	22.55	0.180	22.49	0.177
	16QAM	1	0	20.97	0.125	21.25	0.133	21.38	0.137
		1	3	21.18	0.131	21.27	0.134	21.42	0.139
		1	5	21.07	0.128	21.43	0.139	21.28	0.134
		3	0	21.26	0.134	21.12	0.129	21.42	0.139
		3	2	21.40	0.138	21.45	0.140	21.42	0.139
		3	3	21.30	0.135	21.25	0.133	21.22	0.132
		6	0	20.25	0.106	21.22	0.132	21.39	0.138
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	22.29	0.169	22.52	0.179	22.50	0.178
		1	7	22.38	0.173	22.66	0.185	22.62	0.183
		1	14	22.29	0.169	22.59	0.182	22.70	0.186
		8	0	22.35	0.172	21.57	0.144	21.59	0.144
		8	4	22.28	0.169	21.54	0.143	21.60	0.145
		8	7	22.37	0.173	21.59	0.144	21.60	0.145
		15	0	21.33	0.136	21.52	0.142	21.59	0.144
	16QAM	1	0	20.97	0.125	21.30	0.135	21.47	0.140
		1	7	21.30	0.135	21.61	0.145	21.27	0.134
		1	14	20.95	0.124	21.44	0.139	21.31	0.135
		8	0	21.39	0.138	20.49	0.112	20.53	0.113
		8	4	21.29	0.135	20.55	0.114	20.70	0.117
		8	7	21.28	0.134	20.45	0.111	20.68	0.117
		15	0	20.37	0.109	20.48	0.112	20.51	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	22.34	0.171	22.60	0.182	22.48	0.177
		1	12	22.37	0.173	22.62	0.183	22.65	0.184
		1	24	22.39	0.173	22.53	0.179	22.70	0.186
		12	0	22.29	0.169	22.57	0.181	21.63	0.146
		12	6	22.41	0.174	22.58	0.181	21.60	0.145
		12	13	22.41	0.174	22.54	0.179	21.58	0.144
		25	0	22.39	0.173	21.54	0.143	21.58	0.144
	16QAM	1	0	20.94	0.124	21.37	0.137	20.96	0.125
		1	12	21.11	0.129	21.14	0.130	21.44	0.139
		1	24	21.25	0.133	21.28	0.134	21.39	0.138
		12	0	21.38	0.137	21.47	0.140	20.52	0.113
		12	6	21.50	0.141	21.49	0.141	20.62	0.115
		12	13	21.35	0.136	21.57	0.144	20.58	0.114
		25	0	21.37	0.137	20.46	0.111	20.58	0.114

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	22.48	0.177	22.55	0.180	22.58	0.181
		1	25	22.45	0.176	22.67	0.185	22.59	0.182
		1	49	22.47	0.177	22.61	0.182	22.51	0.178
		25	0	22.52	0.179	22.62	0.183	22.58	0.181
		25	12	22.46	0.176	22.58	0.181	22.46	0.176
		25	25	22.45	0.176	22.57	0.181	22.53	0.179
		50	0	22.48	0.177	21.57	0.144	21.56	0.143
	16QAM	1	0	21.22	0.132	21.59	0.144	21.34	0.136
		1	25	21.30	0.135	21.30	0.135	21.13	0.130
		1	49	21.27	0.134	21.25	0.133	21.53	0.142
		25	0	21.39	0.138	21.53	0.142	21.70	0.148
		25	12	21.51	0.142	21.54	0.143	21.65	0.146
		25	25	21.40	0.138	21.58	0.144	21.54	0.143
		50	0	21.30	0.135	20.51	0.112	20.53	0.113
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	22.46	0.176	22.68	0.185	22.53	0.179
		1	36	22.37	0.173	22.70	0.186	22.70	0.186
		1	74	22.44	0.175	22.71	0.187	22.69	0.186
		36	0	22.40	0.174	22.62	0.183	22.55	0.180
		36	18	22.43	0.175	22.53	0.179	22.62	0.183
		36	37	22.50	0.178	22.57	0.181	22.56	0.180
		75	0	22.48	0.177	22.59	0.182	21.60	0.145
	16QAM	1	0	21.29	0.135	21.48	0.141	21.42	0.139
		1	36	21.25	0.133	21.43	0.139	21.35	0.136
		1	74	21.36	0.137	21.32	0.136	21.56	0.143
		36	0	21.28	0.134	21.63	0.146	21.64	0.146
		36	18	21.41	0.138	21.52	0.142	21.58	0.144
		36	37	21.39	0.138	21.46	0.140	21.47	0.140
		75	0	21.37	0.137	21.49	0.141	20.56	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	22.45	0.176	22.76	0.189	22.64	0.184
		1	50	22.44	0.175	22.93	0.196	22.78	0.190
		1	99	22.54	0.179	22.75	0.188	22.69	0.186
		50	0	22.47	0.177	22.72	0.187	22.78	0.190
		50	25	22.50	0.178	22.75	0.188	22.80	0.191
		50	50	22.50	0.178	22.63	0.183	22.63	0.183
		100	0	22.46	0.176	22.71	0.187	21.71	0.148
	16QAM	1	0	21.33	0.136	21.62	0.145	21.50	0.141
		1	50	21.14	0.130	21.32	0.136	21.52	0.142
		1	99	21.27	0.134	21.51	0.142	21.50	0.141
		50	0	21.32	0.136	21.64	0.146	21.78	0.151
		50	25	21.48	0.141	21.63	0.146	21.70	0.148
		50	50	21.50	0.141	21.53	0.142	21.63	0.146
		100	0	21.43	0.139	21.71	0.148	20.68	0.117

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	21.93	0.156	22.01	0.159	21.83	0.152
		1	3	22.20	0.166	22.17	0.165	21.83	0.152
		1	5	22.07	0.161	22.15	0.164	21.93	0.156
		3	0	22.17	0.165	22.13	0.163	21.84	0.153
		3	2	22.04	0.160	22.18	0.165	21.94	0.156
		3	3	22.01	0.159	22.16	0.164	21.87	0.154
		6	0	21.06	0.128	22.09	0.162	21.84	0.153
	16QAM	1	0	20.88	0.122	20.93	0.124	20.85	0.122
		1	3	21.04	0.127	20.76	0.119	20.55	0.114
		1	5	20.71	0.118	21.19	0.132	20.65	0.116
		3	0	21.18	0.131	21.17	0.131	20.62	0.115
		3	2	21.13	0.130	20.87	0.122	20.82	0.121
		3	3	21.10	0.129	21.00	0.126	20.60	0.115
		6	0	19.97	0.099	20.79	0.120	20.70	0.117
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	22.01	0.159	22.10	0.162	21.75	0.150
		1	7	22.09	0.162	22.19	0.166	22.05	0.160
		1	14	22.13	0.163	22.08	0.161	22.07	0.161
		8	0	22.06	0.161	21.13	0.130	20.96	0.125
		8	4	22.02	0.159	21.20	0.132	20.98	0.125
		8	7	22.04	0.160	21.20	0.132	20.98	0.125
		15	0	21.04	0.127	21.15	0.130	20.99	0.126
	16QAM	1	0	20.78	0.120	20.77	0.119	20.59	0.115
		1	7	21.14	0.130	21.33	0.136	20.88	0.122
		1	14	20.94	0.124	20.87	0.122	20.88	0.122
		8	0	21.07	0.128	20.08	0.102	19.89	0.097
		8	4	20.94	0.124	20.09	0.102	19.61	0.091
		8	7	20.89	0.123	20.10	0.102	19.77	0.095
		15	0	19.94	0.099	20.09	0.102	19.80	0.095
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	21.94	0.156	21.98	0.158	22.08	0.161
		1	12	22.04	0.160	22.15	0.164	22.16	0.164
		1	24	22.06	0.161	22.11	0.163	22.06	0.161
		12	0	22.06	0.161	22.08	0.161	20.91	0.123
		12	6	22.02	0.159	22.07	0.161	20.98	0.125
		12	13	22.03	0.160	22.11	0.163	21.09	0.129
		25	0	22.00	0.158	21.16	0.131	20.96	0.125
	16QAM	1	0	20.67	0.117	20.88	0.122	20.63	0.116
		1	12	20.73	0.118	21.00	0.126	20.97	0.125
		1	24	20.94	0.124	21.05	0.127	21.02	0.126
		12	0	21.00	0.126	21.10	0.129	20.10	0.102
		12	6	21.09	0.129	21.13	0.130	19.95	0.099
		12	13	21.11	0.129	21.10	0.129	19.94	0.099
		25	0	20.96	0.125	20.04	0.101	19.86	0.097

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	22.11	0.163	22.27	0.169	22.07	0.161
		1	25	22.15	0.164	22.31	0.170	22.21	0.166
		1	49	22.20	0.166	22.24	0.167	22.21	0.166
		25	0	22.12	0.163	22.24	0.167	22.00	0.158
		25	12	22.15	0.164	22.09	0.162	22.09	0.162
		25	25	22.15	0.164	22.14	0.164	22.10	0.162
	16QAM	50	0	22.12	0.163	21.18	0.131	21.15	0.130
		1	0	20.95	0.124	21.03	0.127	20.82	0.121
		1	25	21.12	0.129	21.26	0.134	20.85	0.122
		1	49	20.81	0.121	20.97	0.125	21.15	0.130
		25	0	21.16	0.131	21.24	0.133	21.01	0.126
		25	12	21.21	0.132	21.17	0.131	20.95	0.124
		25	25	21.12	0.129	21.20	0.132	20.90	0.123
		50	0	21.11	0.129	20.11	0.103	20.12	0.103
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	22.19	0.166	22.24	0.167	22.33	0.171
		1	36	22.24	0.167	22.41	0.174	22.23	0.167
		1	74	22.06	0.161	22.34	0.171	22.09	0.162
		36	0	22.08	0.161	22.14	0.164	22.21	0.166
		36	18	22.13	0.163	22.30	0.170	22.16	0.164
		36	37	22.05	0.160	22.32	0.171	22.16	0.164
	16QAM	75	0	22.12	0.163	22.16	0.164	21.14	0.130
		1	0	20.92	0.124	21.11	0.129	21.01	0.126
		1	36	20.84	0.121	21.14	0.130	20.98	0.125
		1	74	20.95	0.124	21.02	0.126	20.78	0.120
		36	0	21.14	0.130	21.14	0.130	21.14	0.130
		36	18	21.16	0.131	21.32	0.136	21.13	0.130
		36	37	21.07	0.128	21.34	0.136	21.21	0.132
		75	0	21.04	0.127	21.15	0.130	20.07	0.102
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	22.13	0.163	22.17	0.165	22.23	0.167
		1	50	22.06	0.161	22.27	0.169	22.38	0.173
		1	99	22.18	0.165	22.36	0.172	22.32	0.171
		50	0	22.03	0.160	22.19	0.166	22.25	0.168
		50	25	21.98	0.158	22.20	0.166	22.29	0.169
		50	13	22.09	0.162	22.17	0.165	22.28	0.169
	16QAM	100	0	22.07	0.161	22.15	0.164	21.25	0.133
		1	0	20.91	0.123	21.15	0.130	21.10	0.129
		1	50	20.97	0.125	20.73	0.118	21.12	0.129
		1	99	20.69	0.117	20.84	0.121	21.02	0.126
		50	0	21.15	0.130	21.22	0.132	21.11	0.129
		50	25	21.04	0.127	21.11	0.129	21.28	0.134
		50	50	21.06	0.128	21.11	0.129	21.28	0.134
		100	0	21.06	0.128	21.15	0.130	20.28	0.107

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	21.43	0.139	21.34	0.136	20.98	0.125
		1	12	21.62	0.145	21.37	0.137	21.03	0.127
		1	24	21.36	0.137	21.34	0.136	21.11	0.129
		12	0	20.59	0.115	20.55	0.114	21.08	0.128
		12	6	20.47	0.111	20.48	0.112	21.32	0.136
		12	13	20.41	0.110	20.48	0.112	21.21	0.132
	16QAM	25	0	20.52	0.113	20.56	0.114	21.13	0.130
		1	0	20.21	0.105	20.13	0.103	19.74	0.094
		1	12	20.35	0.108	20.27	0.106	19.96	0.099
		1	24	20.29	0.107	20.08	0.102	19.89	0.097
		12	0	19.57	0.091	19.54	0.090	19.85	0.097
		12	6	19.52	0.090	19.55	0.090	20.29	0.107
		12	13	19.50	0.089	19.54	0.090	19.91	0.098
		25	0	19.50	0.089	19.56	0.090	19.90	0.098

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	21.67	0.147	21.58	0.144	21.30	0.135
		1	25	21.46	0.140	21.64	0.146	21.36	0.137
		1	49	21.51	0.142	21.55	0.143	21.31	0.135
		25	0	21.55	0.143	20.53	0.113	20.19	0.104
		25	12	21.46	0.140	20.59	0.115	20.14	0.103
		25	25	21.45	0.140	20.54	0.113	20.16	0.104
	16QAM	50	0	20.53	0.113	20.62	0.115	20.17	0.104
		1	0	20.33	0.108	20.45	0.111	19.98	0.100
		1	25	20.22	0.105	20.51	0.112	19.93	0.098
		1	49	20.49	0.112	20.35	0.108	20.10	0.102
		25	0	20.64	0.116	19.61	0.091	19.27	0.085
		25	12	20.40	0.110	19.55	0.090	19.18	0.083
		25	25	20.54	0.113	19.61	0.091	19.21	0.083
		50	0	19.49	0.089	19.50	0.089	19.21	0.083

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	21.54	0.143	21.55	0.143	21.31	0.135
		1	36	21.53	0.142	21.66	0.147	21.25	0.133
		1	74	21.67	0.147	21.54	0.143	21.31	0.135
		36	0	21.52	0.142	20.62	0.115	20.26	0.106
		36	18	21.50	0.141	20.59	0.115	20.14	0.103
		36	37	21.46	0.140	20.54	0.113	20.16	0.104
		75	0	20.54	0.113	20.58	0.114	20.18	0.104
	16QAM	1	0	20.54	0.113	20.36	0.109	20.08	0.102
		1	36	20.29	0.107	20.46	0.111	19.92	0.098
		1	74	20.19	0.104	20.49	0.112	20.15	0.104
		36	0	20.54	0.113	19.68	0.093	19.24	0.084
		36	18	20.52	0.113	19.44	0.088	19.24	0.084
		36	37	20.65	0.116	19.52	0.090	19.23	0.084
		75	0	19.64	0.092	19.54	0.090	19.24	0.084

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	21.61	0.145	21.55	0.143	21.48	0.141
		1	50	21.61	0.145	21.66	0.147	21.34	0.136
		1	99	21.61	0.145	21.80	0.151	21.29	0.135
		50	0	21.47	0.140	20.70	0.117	20.40	0.110
		50	25	21.49	0.141	20.65	0.116	20.19	0.104
		50	50	21.46	0.140	20.62	0.115	20.18	0.104
	16QAM	100	0	20.53	0.113	20.55	0.114	20.19	0.104
		1	0	20.52	0.113	20.50	0.112	20.27	0.106
		1	50	20.35	0.108	20.43	0.110	20.04	0.101
		1	99	20.47	0.111	20.51	0.112	20.10	0.102
		50	0	20.69	0.117	19.61	0.091	19.42	0.087
		50	25	20.78	0.120	19.59	0.091	19.26	0.084
		50	50	20.64	0.116	19.59	0.091	19.28	0.085
		100	0	19.59	0.091	19.59	0.091	19.24	0.084

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	22.51	0.178	22.62	0.183	22.53	0.179
		1	3	22.51	0.178	22.62	0.183	22.52	0.179
		1	5	22.45	0.176	22.61	0.182	22.51	0.178
		3	0	22.47	0.177	22.69	0.186	22.40	0.174
		3	2	22.51	0.178	22.59	0.182	22.48	0.177
		3	3	22.42	0.175	22.57	0.181	22.48	0.177
		6	0	21.55	0.143	22.59	0.182	22.58	0.181
	16QAM	1	0	21.25	0.133	21.58	0.144	21.43	0.139
		1	3	21.41	0.138	21.59	0.144	21.61	0.145
		1	5	21.33	0.136	21.43	0.139	21.35	0.136
		3	0	21.47	0.140	21.17	0.131	21.38	0.137
		3	2	21.62	0.145	21.44	0.139	21.41	0.138
		3	3	21.43	0.139	21.50	0.141	21.26	0.134
		6	0	20.50	0.112	21.30	0.135	21.41	0.138

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	22.51	0.178	22.52	0.179	22.78	0.190
		1	7	22.46	0.176	22.53	0.179	22.69	0.186
		1	14	22.54	0.179	22.52	0.179	22.77	0.189
		8	0	22.52	0.179	21.60	0.145	21.72	0.149
		8	4	22.50	0.178	21.49	0.141	21.80	0.151
		8	7	22.50	0.178	21.65	0.146	21.79	0.151
		15	0	21.57	0.144	21.64	0.146	21.64	0.146
	16QAM	1	0	21.11	0.129	21.20	0.132	21.75	0.150
		1	7	21.41	0.138	21.74	0.149	21.31	0.135
		1	14	21.22	0.132	21.30	0.135	21.33	0.136
		8	0	21.70	0.148	20.61	0.115	20.74	0.119
		8	4	21.48	0.141	20.52	0.113	20.85	0.122
		8	7	21.52	0.142	20.55	0.114	20.89	0.123
		15	0	20.50	0.112	20.61	0.115	20.60	0.115

LTE Band 12									
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	22.66	0.185	22.52	0.179	22.47	0.177
		1	12	22.61	0.182	22.35	0.172	22.47	0.177
		1	24	22.58	0.181	22.45	0.176	22.51	0.178
		12	0	21.64	0.146	21.70	0.148	21.72	0.149
		12	6	21.62	0.145	21.69	0.148	21.68	0.147
		12	13	21.63	0.146	21.70	0.148	21.71	0.148
		25	0	21.66	0.147	21.69	0.148	21.58	0.144
	16QAM	1	0	21.14	0.130	21.40	0.138	21.60	0.145
		1	12	21.11	0.129	21.75	0.150	21.72	0.149
		1	24	21.82	0.152	21.82	0.152	21.90	0.155
		12	0	20.68	0.117	20.37	0.109	20.56	0.114
		12	6	20.66	0.116	20.56	0.114	20.60	0.115
		12	13	20.68	0.117	20.50	0.112	20.65	0.116
		25	0	20.65	0.116	20.59	0.115	20.62	0.115

LTE Band 12									
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	22.50	0.178	22.50	0.178	22.60	0.182
		1	25	22.64	0.184	22.85	0.193	22.47	0.177
		1	49	22.50	0.178	22.49	0.177	22.46	0.176
		25	0	21.72	0.149	21.71	0.148	21.72	0.149
		25	12	21.60	0.145	21.69	0.148	21.70	0.148
		25	25	21.60	0.145	21.72	0.149	21.64	0.146
		50	0	21.64	0.146	21.65	0.146	21.61	0.145
	16QAM	1	0	21.62	0.145	21.49	0.141	21.83	0.152
		1	25	21.86	0.153	21.49	0.141	21.73	0.149
		1	49	21.27	0.134	21.44	0.139	21.79	0.151
		25	0	20.58	0.114	20.40	0.110	20.63	0.116
		25	12	20.63	0.116	20.68	0.117	20.78	0.120
		25	25	20.67	0.117	20.67	0.117	20.69	0.117
		50	0	20.63	0.116	20.50	0.112	20.44	0.111

LTE Band 13									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23205 (779.5 MHz)		23230 (782.0 MHz)		23255 (784.5 MHz)	
				(dB m)	(W)	(dB m)	(W)	(dB m)	(W)
5	QPSK	1	0	21.26	0.134	21.54	0.143	21.04	0.127
		1	12	21.67	0.147	21.60	0.145	21.06	0.128
		1	24	21.37	0.137	21.59	0.144	21.03	0.127
		12	0	20.44	0.111	20.59	0.115	20.99	0.126
		12	6	20.59	0.115	20.58	0.114	20.99	0.126
		12	13	20.49	0.112	20.69	0.117	21.09	0.129
		25	0	20.45	0.111	20.68	0.117	20.85	0.122
	16QAM	1	0	19.93	0.098	20.39	0.109	20.95	0.124
		1	12	20.64	0.116	20.48	0.112	21.06	0.128
		1	24	20.21	0.105	20.16	0.104	21.05	0.127
		12	0	19.21	0.083	19.58	0.091	21.12	0.129
		12	6	19.43	0.088	19.57	0.091	21.03	0.127
		12	13	19.44	0.088	19.60	0.091	21.01	0.126
		25	0	19.40	0.087	19.60	0.091	21.02	0.126

LTE Band 13									
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Conducted Output Power					
				23230 (782.0 MHz)					
						(dB m)	(W)		
10	QPSK	1	0	-	-	21.35	0.136	-	-
		1	25	-	-	21.90	0.155	-	-
		1	49	-	-	21.65	0.146	-	-
		25	0	-	-	20.57	0.114	-	-
		25	12	-	-	20.65	0.116	-	-
		25	25	-	-	20.62	0.115	-	-
		50	0	-	-	20.68	0.117	-	-
	16QAM	1	0	-	-	20.20	0.105	-	-
		1	25	-	-	20.40	0.110	-	-
		1	49	-	-	20.22	0.105	-	-
		25	0	-	-	19.52	0.090	-	-
		25	12	-	-	19.56	0.090	-	-
		25	25	-	-	19.56	0.090	-	-
		50	0	-	-	19.54	0.090	-	-

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	21.79	0.151	21.92	0.156	21.83	0.152
		1	2	21.90	0.155	22.01	0.159	21.80	0.151
		1	5	21.97	0.157	21.99	0.158	21.88	0.154
		3	0	21.79	0.151	21.97	0.157	21.97	0.157
		3	2	21.98	0.158	21.96	0.157	21.86	0.153
		3	3	21.90	0.155	21.98	0.158	21.76	0.150
		6	0	20.73	0.118	21.94	0.156	21.74	0.149
	16QAM	1	0	20.54	0.113	20.69	0.117	20.48	0.112
		1	2	20.69	0.117	20.69	0.117	20.56	0.114
		1	5	20.78	0.120	20.74	0.119	20.50	0.112
		3	0	20.84	0.121	20.83	0.121	20.45	0.111
		3	2	20.84	0.121	20.75	0.119	20.65	0.116
		3	3	20.97	0.125	20.53	0.113	20.47	0.111
		6	0	19.75	0.094	20.86	0.122	20.54	0.113

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	21.76	0.150	22.05	0.160	22.04	0.160
		1	7	21.81	0.152	21.92	0.156	21.77	0.150
		1	14	21.92	0.156	22.08	0.161	21.86	0.153
		8	0	21.62	0.145	20.93	0.124	20.88	0.122
		8	4	21.80	0.151	20.97	0.125	20.89	0.123
		8	7	21.69	0.148	20.91	0.123	20.79	0.120
		15	0	20.61	0.115	21.01	0.126	20.80	0.120
	16QAM	1	0	20.34	0.108	20.86	0.122	20.68	0.117
		1	7	20.60	0.115	20.81	0.121	20.67	0.117
		1	14	20.53	0.113	20.64	0.116	20.71	0.118
		8	0	20.71	0.118	19.96	0.099	19.77	0.095
		8	4	20.75	0.119	20.01	0.100	19.77	0.095
		8	7	20.79	0.120	19.92	0.098	19.77	0.095
		15	0	19.64	0.092	19.92	0.098	19.93	0.098

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	21.71	0.148	22.02	0.159	21.85	0.153
		1	12	21.81	0.152	21.96	0.157	21.93	0.156
		1	24	22.00	0.158	21.96	0.157	21.78	0.151
		12	0	21.63	0.146	22.00	0.158	20.93	0.124
		12	6	21.80	0.151	22.00	0.158	20.87	0.122
		12	13	21.83	0.152	22.01	0.159	20.74	0.119
		25	0	21.87	0.154	21.01	0.126	20.78	0.120
	16QAM	1	0	20.50	0.112	20.67	0.117	20.57	0.114
		1	12	20.29	0.107	20.58	0.114	20.68	0.117
		1	24	20.80	0.120	20.71	0.118	20.61	0.115
		12	0	20.69	0.117	20.94	0.124	20.09	0.102
		12	6	20.72	0.118	20.96	0.125	19.87	0.097
		12	13	20.89	0.123	20.96	0.125	19.82	0.096
		25	0	20.69	0.117	20.02	0.100	19.79	0.095
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	-	-	21.84	0.153	-	-
		1	25	-	-	22.00	0.158	-	-
		1	49	-	-	22.31	0.170	-	-
		25	0	-	-	21.98	0.158	-	-
		25	12	-	-	22.20	0.166	-	-
		25	25	-	-	22.10	0.162	-	-
		50	0	-	-	21.07	0.128	-	-
	16QAM	1	0	-	-	20.72	0.118	-	-
		1	25	-	-	20.75	0.119	-	-
		1	49	-	-	20.59	0.115	-	-
		25	0	-	-	21.04	0.127	-	-
		25	12	-	-	21.05	0.127	-	-
		25	25	-	-	21.07	0.128	-	-
		50	0	-	-	19.91	0.098	-	-
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	-	-	21.87	0.154	-	-
		1	36	-	-	22.05	0.160	-	-
		1	74	-	-	22.03	0.160	-	-
		36	0	-	-	21.87	0.154	-	-
		36	18	-	-	21.90	0.155	-	-
		36	37	-	-	22.00	0.158	-	-
		75	0	-	-	21.74	0.149	-	-
	16QAM	1	0	-	-	20.59	0.115	-	-
		1	36	-	-	20.68	0.117	-	-
		1	74	-	-	20.80	0.120	-	-
		36	0	-	-	20.73	0.118	-	-
		36	18	-	-	20.88	0.122	-	-
		36	37	-	-	20.90	0.123	-	-
		75	0	-	-	20.65	0.116	-	-

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	21.71	0.148	22.23	0.167	21.93	0.156
		1	2	21.95	0.157	22.01	0.159	21.82	0.152
		1	5	21.89	0.155	21.86	0.153	21.86	0.153
		3	0	21.80	0.151	21.86	0.153	21.95	0.157
		3	2	21.86	0.153	22.00	0.158	21.77	0.150
		3	3	21.72	0.149	21.98	0.158	21.84	0.153
	16QAM	6	0	20.76	0.119	22.14	0.164	21.75	0.150
		1	0	20.48	0.112	20.89	0.123	20.69	0.117
		1	3	20.62	0.115	20.73	0.118	20.69	0.117
		1	5	20.71	0.118	20.90	0.123	20.67	0.117
		3	0	20.68	0.117	21.05	0.127	20.75	0.119
		3	2	20.77	0.119	20.50	0.112	20.66	0.116
		3	3	20.74	0.119	20.83	0.121	20.67	0.117
		6	0	19.72	0.094	20.97	0.125	20.69	0.117
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	21.91	0.155	22.17	0.165	21.92	0.156
		1	7	21.89	0.155	22.11	0.163	21.88	0.154
		1	14	21.83	0.152	22.00	0.158	21.85	0.153
		8	0	21.75	0.150	21.08	0.128	20.92	0.124
		8	4	21.80	0.151	21.04	0.127	20.84	0.121
		8	7	21.82	0.152	21.00	0.126	20.84	0.121
	16QAM	15	0	20.80	0.120	21.07	0.128	20.83	0.121
		1	0	20.76	0.119	20.94	0.124	20.79	0.120
		1	7	20.80	0.120	21.08	0.128	20.50	0.112
		1	14	20.73	0.118	21.02	0.126	20.71	0.118
		8	0	20.82	0.121	20.01	0.100	19.62	0.092
		8	4	20.93	0.124	19.98	0.100	19.76	0.095
		8	7	20.88	0.122	19.96	0.099	19.96	0.099
		15	0	19.76	0.095	20.02	0.100	19.81	0.096
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	21.81	0.152	21.94	0.156	21.97	0.157
		1	12	21.74	0.149	22.08	0.161	22.05	0.160
		1	24	22.04	0.160	21.99	0.158	21.86	0.153
		12	0	21.84	0.153	22.04	0.160	20.89	0.123
		12	6	21.83	0.152	22.02	0.159	20.91	0.123
		12	13	21.86	0.153	22.07	0.161	20.87	0.122
	16QAM	25	0	21.80	0.151	21.09	0.129	20.87	0.122
		1	0	20.55	0.114	20.83	0.121	20.57	0.114
		1	12	20.63	0.116	20.68	0.117	20.86	0.122
		1	24	20.75	0.119	20.96	0.125	20.71	0.118
		12	0	20.85	0.122	20.91	0.123	19.90	0.098
		12	6	20.79	0.120	21.04	0.127	19.94	0.099
		12	13	21.01	0.126	21.04	0.127	19.71	0.094
		25	0	20.65	0.116	20.03	0.101	19.90	0.098

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	22.00	0.158	22.20	0.166	22.07	0.161
		1	25	21.92	0.156	22.19	0.166	22.04	0.160
		1	49	21.93	0.156	22.09	0.162	22.04	0.160
		25	0	21.86	0.153	22.04	0.160	21.97	0.157
		25	12	21.99	0.158	22.09	0.162	22.02	0.159
		25	25	21.95	0.157	22.03	0.160	22.02	0.159
		50	0	21.96	0.157	21.07	0.128	20.99	0.126
	16QAM	1	0	20.66	0.116	20.92	0.124	20.78	0.120
		1	25	20.74	0.119	20.78	0.120	21.01	0.126
		1	49	20.68	0.117	20.87	0.122	20.70	0.117
		25	0	20.90	0.123	21.08	0.128	21.10	0.129
		25	12	20.82	0.121	20.99	0.126	21.13	0.130
		25	25	20.89	0.123	21.05	0.127	21.03	0.127
		50	0	20.92	0.124	19.98	0.100	19.98	0.100

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	21.95	0.157	-	-	22.24	0.167
		1	36	22.03	0.160	-	-	22.17	0.165
		1	74	22.02	0.159	-	-	21.93	0.156
		36	0	21.87	0.154	-	-	21.95	0.157
		36	18	21.97	0.157	-	-	21.96	0.157
		36	37	21.96	0.157	-	-	21.98	0.158
		75	0	22.02	0.159	-	-	21.02	0.126
	16QAM	1	0	20.56	0.114	-	-	20.64	0.116
		1	36	20.80	0.120	-	-	20.82	0.121
		1	74	20.99	0.126	-	-	20.79	0.120
		36	0	20.66	0.116	-	-	21.05	0.127
		36	18	20.96	0.125	-	-	20.98	0.125
		36	37	20.87	0.122	-	-	20.95	0.124
		75	0	20.78	0.120	-	-	19.98	0.100

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	21.31	0.135	21.21	0.132	21.49	0.141
		1	12	21.77	0.150	21.77	0.150	21.47	0.140
		1	24	21.21	0.132	21.24	0.133	21.46	0.140
		12	0	20.37	0.109	20.47	0.111	21.37	0.137
		12	6	20.39	0.109	20.32	0.108	21.50	0.141
		12	13	20.33	0.108	20.31	0.107	21.59	0.144
		25	0	20.33	0.108	20.34	0.108	21.35	0.136
	16QAM	1	0	20.26	0.106	20.29	0.107	20.60	0.115
		1	12	20.37	0.109	20.45	0.111	20.35	0.108
		1	24	20.20	0.105	20.27	0.106	20.48	0.112
		12	0	19.43	0.088	19.52	0.090	20.47	0.111
		12	6	19.30	0.085	19.43	0.088	20.69	0.117
		12	13	19.33	0.086	19.43	0.088	20.60	0.115
		25	0	19.38	0.087	19.37	0.086	20.52	0.113

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	21.28	0.134	21.42	0.139	21.19	0.132
		1	25	21.45	0.140	21.16	0.131	21.36	0.137
		1	49	21.38	0.137	21.38	0.137	21.44	0.139
		25	0	21.27	0.134	21.30	0.135	20.12	0.103
		25	12	21.34	0.136	21.23	0.133	20.13	0.103
		25	25	21.45	0.140	21.26	0.134	20.36	0.109
		50	0	20.37	0.109	20.24	0.106	20.13	0.103
	16QAM	1	0	20.24	0.106	20.38	0.109	20.30	0.107
		1	25	20.31	0.107	20.14	0.103	20.32	0.108
		1	49	20.41	0.110	20.26	0.106	20.25	0.106
		25	0	20.40	0.110	20.19	0.104	19.24	0.084
		25	12	20.31	0.107	20.28	0.107	19.24	0.084
		25	25	20.69	0.117	20.25	0.106	19.19	0.083
		50	0	19.37	0.086	19.29	0.085	19.24	0.084
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	21.00	0.126	21.18	0.131	21.37	0.137
		1	36	20.91	0.123	21.14	0.130	21.05	0.127
		1	74	20.96	0.125	21.08	0.128	21.17	0.131
		36	0	20.97	0.125	21.25	0.133	20.21	0.105
		36	18	21.10	0.129	21.21	0.132	20.27	0.106
		36	37	21.06	0.128	21.21	0.132	20.12	0.103
		75	0	20.00	0.100	20.33	0.108	20.16	0.104
	16QAM	1	0	19.94	0.099	20.24	0.106	20.42	0.110
		1	36	20.01	0.100	20.28	0.107	20.14	0.103
		1	74	20.06	0.101	20.26	0.106	20.21	0.105
		36	0	20.13	0.103	20.44	0.111	19.20	0.083
		36	18	20.14	0.103	20.27	0.106	19.18	0.083
		36	37	20.10	0.102	20.40	0.110	19.23	0.084
		75	0	19.04	0.080	19.30	0.085	19.21	0.083
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	20.96	0.125	21.47	0.140	21.29	0.135
		1	50	21.05	0.127	21.46	0.140	21.25	0.133
		1	99	20.83	0.121	21.13	0.130	21.34	0.136
		50	0	20.96	0.125	21.15	0.130	20.38	0.109
		50	25	21.02	0.126	21.11	0.129	20.28	0.107
		50	13	20.99	0.126	21.06	0.128	20.16	0.104
		100	0	20.01	0.100	20.23	0.105	20.16	0.104
	16QAM	1	0	19.97	0.099	20.28	0.107	20.50	0.112
		1	50	20.14	0.103	20.30	0.107	20.18	0.104
		1	99	19.98	0.100	20.26	0.106	20.34	0.108
		50	0	19.94	0.099	20.37	0.109	19.36	0.086
		50	25	19.98	0.100	20.11	0.103	19.19	0.083
		50	50	19.90	0.098	20.13	0.103	19.19	0.083
		100	0	19.03	0.080	19.20	0.083	19.26	0.084

- End of the Test Report -