

TEST REPORT

of

FCC Part 2 Subpart J, Part 22 Subpart C/H,
Part 24 Subpart E, Part 27 Subpart C and Part 90 Subpart R
IC RSS-130 Issue 2, RSS-132 Issue 3, RSS-133 Issue 6,
RSS-139 Issue 3, RSS-140 Issue 1,
RSS-199 Issue 3 and RSS-Gen Issue 5

FCC ID: BEJTFGMEIBBCD1
IC Certification: 2703H-TFGMEIBBCD1

Equipment Under Test : Telematics
Model Name : TFGMEIBBCD1
Variant Model Name(s) : Refer to the page 3
Applicant : FCC: LG Electronics USA
IC: LG ELECTRONICS INC.
Manufacturer : LG Electronics Inc.
Date of Receipt : 2022.07.22
Date of Test(s) : 2022.07.25 ~ 2023.03.09
Date of Issue : 2023.03.13

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:



Teo Kim

Technical
Manager:



Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory

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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

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1.2. Details of Applicant

FCC Applicant : LG Electronics USA

FCC Address : 111 Sylvan Avenue, North Building, Englewood Cliffs, New Jersey, United States, 07632

IC Applicant : LG ELECTRONICS INC.

IC Address : 222, LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea (Republic of), 451-713

Contact Person : Cho, Hee-jae

Phone No. : +1 201 470 2696

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	TFGMEIBBCD1
Variant Model Names	TFGMEIBBCD2, TFGMEIBBCD3
Serial Number	Conducted: 351015130056680 Radiated: 351015130065751
Power Supply	DC 13.5 V
Rated Power	LTE Band 2, 7, 13, 14: 24 dBm LTE Band 5, 12: 24.2 dBm LTE Band 4, 66: 23.5 dBm
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 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 66: 1 710 MHz ~ 1 780 MHz
Modulation Technique	QPSK, 16QAM, 64QAM
Antenna Type	Internal: Planar Inverted F Antenna External: Metal Antenna
Antenna Gain*	Refer to the clause 1.18
H/W Version	REV.D
S/W Version	SW168
FVIN	N/A

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. 17, 2023	Annual	Feb. 17, 2024
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
Temperature Chamber	ESPEC CORP.	SH-662	93000533	Jun. 02, 2022	Annual	Jun. 02, 2023
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-1	May 13, 2022	Annual	May 13, 2023
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	WHKX2.2/12.75G-10SS	8	Mar. 02, 2023	Annual	Mar. 02, 2024
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. 20, 2023	Annual	Jan. 20, 2024
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. 11, 2023	Annual	Jan. 11, 2024
Test Receiver	R&S	ESCI 7	100911	Feb. 24, 2023	Annual	Feb. 24, 2024
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 23, 2021	Biennial	Aug. 23, 2023
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	R&S	HF907	102270	Mar. 09, 2023	Annual	Mar. 09, 2024
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	Feb. 18, 2023	Semi-Annual	Aug. 18, 2023
Coaxial Cable	RADIALL	TESTPRO 3	182288	Feb. 18, 2023	Semi-Annual	Aug. 18, 2023
Coaxial Cable	RADIALL	TESTPRO 3	182291	Feb. 18, 2023	Semi-Annual	Aug. 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 / IC RSS-Gen Issue 5, RSS-130 Issue 2, RSS-132 Issue 3, RSS-133 Issue 6, RSS-139 Issue 3, RSS-140 Issue 1 and RSS-199 Issue 3			
Section in FCC	Section in IC	Test Item(s)	Result
§2.1046 §22.913(a)(5) §24.232(c) §27.50(b)(10) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.542(a)(7)	RSS-130 Issue 2 4.6 RSS-132 Issue 3 5.4 RSS-133 Issue 6 6.4 RSS-139 Issue 3 6.5 RSS-140 Issue 1 4.3 RSS-199 Issue 3 4.4	E.R.P. / E.I.R.P.	Complied ¹⁾
§22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)(1) §27.53(m)(4) §90.543(e) §90.543(f)	RSS-130 Issue 2 4.7 RSS-132 Issue 3 5.5 RSS-133 Issue 6 6.5 RSS-139 Issue 3 6.6 RSS-140 Issue 1 4.4 RSS-199 Issue 3 4.5	Radiated Spurious Emissions	Complied ¹⁾
§2.1046	RSS-Gen Issue 5 6.12	Conducted Output Power	Complied ²⁾
§2.1049	RSS-Gen Issue 5 6.7	Occupied Bandwidth	Complied ²⁾
§22.913(d) §24.232(d) §27.50(d)(5)	RSS-130 Issue 2 4.6 RSS-132 Issue 3 5.4 RSS-133 Issue 6 6.4 RSS-139 Issue 3 6.5 RSS-140 Issue 1 4.3 RSS-199 Issue 3 4.4	Peak-Average Ratio	Complied ²⁾
§22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)(1) §27.53(m)(4) §90.543(e)	RSS-130 Issue 2 4.7 RSS-132 Issue 3 5.5 RSS-133 Issue 6 6.5 RSS-139 Issue 3 6.6 RSS-140 Issue 1 4.4 RSS-199 Issue 3 4.5	Spurious Emission at Antenna Terminal	Complied ²⁾
§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) §90.543(e)	RSS-130 Issue 2 4.7 RSS-132 Issue 3 5.5 RSS-133 Issue 6 6.5 RSS-139 Issue 3 6.6 RSS-140 Issue 1 4.4 RSS-199 Issue 3 4.5	Band Edge and Emission Mask	Complied ²⁾
§2.1055 §22.355 §24.235 §27.54 §90.213(a)	RSS-Gen Issue 5 6.11 RSS-130 Issue 2 4.5 RSS-132 Issue 3 5.3 RSS-133 Issue 6 6.3 RSS-139 Issue 3 6.4 RSS-140 Issue 1 4.2 RSS-199 Issue 3 4.3	Frequency Stability	Complied ²⁾

Note;

- 1) The EUT has two antennas (external, internal) and each antenna operated by one module.
- 2) The EUT uses same module with TM05FNNAGM0, so only spot check was performed for radiated spurious emissions and the rule was satisfied.

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 (dBμV) + 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)

1.8. Introduction of Test Data Reuse

This report referenced from the FCC ID: BEJTM05FNNAGM0 and IC Certification: 2703H-TM05FNNAGM0. The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID and IC Certification.

1.9. Difference

Model name	Description
TM05FNNAGM0	- Reference model - Single modular
TFGMEIBBCD1	- Host equipment - Same to reference model except below - With external case - Internal antenna

1.10. Spot Check Data

After confirming through preliminary radiated spurious emissions in the each below 1 GHz and above 1 GHz worst band that the performance of the FCC ID: BEJTM05FNNAGM0 and IC Certification: 2703H-TM05FNNAGM0 remains representative of FCC ID: BEJTFGMEIBBCD1 and IC Certification: 2703H-TFGMEIBBCD1.

The test data of FCC ID: BEJTM05FNNAGM0 and IC Certification: 2703H-TM05FNNAGM0 being submitted for this application to cover LTE features.

Band	Test item	Frequency (MHz)	Limit	Original model	Spot check model	Deviation (dB)	Remark
				TM05FNNAGM0	TFGMEIBBCD1		
				FCC ID: BEJTM05FNNAGM0 IC Certification: 2703H-TM05FNNAGM0	FCC ID: BEJTFGMEIBBCD1 IC Certification: 2703H-TFGMEIBBCD1		
Band 14	Radiated Spurious Emissions	793	-40 dB m	-46.37 dB m	-45.00 dB m	-1.37	GPS Band
Band 66/4	Radiated Spurious Emissions	1 717.5	-13 dB m	-17.50 dB m	-18.29 dB m	0.79	-

Note;

Comparison of two models, upper deviation is within 3 dB range and all test results are under FCC/IC technical limits.

1.11. Reference Detail

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

Equipment class	Reference FCC ID and IC Certification	Application type	Reference test report number	Exhibit type	Variant test report number	Data reuse
PCB	FCC ID: BEJTM05FNNAGM0 IC Certification: 2703H-TM05FNNAGM0	Original grant	F690501-RF-RTL003820-1 (LTE)	Test report	F690501-RF-RTL003895 (LTE)	All
			F690501-RF-RTL003821-1 (NR)		F690501-RF-RTL003896 (NR)	
			F690501-RF-RTL003822-1 (Inter CA)		F690501-RF-RTL003897 (Inter CA)	
			F690501-RF-RTL003823-1 (WCDMA)		F690501-RF-RTL003898 (WCDMA)	
			F690501-RF-RTL003824-1 (Intra CA)		F690501-RF-RTL003899 (Intra CA)	
			F690501-RF-RTL003825-1 (NR n41)		F690501-RF-RTL003900 (NR n41)	
			F690501-RF-RTL003827-1 (FCC NR n77/78)		F690501-RF-RTL003902 (FCC NR n77/78)	
			F690501-RF-RTL003828-1 (IC NR n77/78)		F690501-RF-RTL003903 (IC NR n77/78)	

1.12. Device Capabilities

This device contains the following capabilities;

LTE Band 4 (1 710 MHz ~ 1 755 MHz) is covered by LTE Band 66 (1 710 MHz ~ 1 780 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 4 as well as Band 66.

1.13. Manufacturer Declaration

The EUT supports two ports and LTE, WCDMA and 5G NR FDD bands support only port 1.
 The 5G NR TDD (n41, n77, n78) band supports both port 1 and port 2.
 The EUT has two antennas (external, internal) and each antenna operated by one module.
 The EUT's internal and external antennas do not transmit simultaneously.

1.14. Worst Case Configuration and Mode

The worst-case is based on the conducted output power measurement investigation results. All testing was performed using QPSK, 16QAM and 64QAM 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 64QAM modulation as worst case.

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

1.15. Measurement Configuration

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #		
		Low	Mid	High	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full
Conducted Output Power	2	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	5	V	V	V	V	V	V	V			V	V	V	V	V	V
	7	V	V	V			V	V	V	V	V	V	V	V	V	V
	12	V	V	V	V	V	V	V			V	V	V	V	V	V
	13	V	V	V			V	V			V	V	V	V	V	V
	14	V	V	V			V	V			V	V	V	V	V	V
	66/4	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
Frequency Stability	2	-	V	-	-	-	V	-	-	-	V	-	-	-	-	V
	5	-	V	-	-	-	V	-			V	-	-	-	-	V
	7	-	V	-			V	-	-	-	V	-	-	-	-	V
	12	-	V	-	-	-	V	-			V	-	-	-	-	V
	13	-	V	-			V	-			V	-	-	-	-	V
	14	-	V	-			V	-			V	-	-	-	-	V
	66/4	-	V	-	-	-	V	-	-	-	V	-	-	-	-	V
Occupied Bandwidth	2	-	V	-	V	V	V	V	V	V	V	V	-	-	-	V
	5	-	V	-	V	V	V	V			V	V	-	-	-	V
	7	-	V	-			V	V	V	V	V	V	-	-	-	V
	12	-	V	-	V	V	V	V			V	V	-	-	-	V
	13	-	V	-			V	V			V	V	-	-	-	V
	14	-	V	-			V	V			V	V	-	-	-	V
	66/4	-	V	-	V	V	V	V	V	V	V	V	-	-	-	V
Peak-to-Average Ratio	2	V	V	V	V	V	V	V	V	V	-	-	V	-	-	V
	5	V	V	V	V	V	V	V			-	-	V	-	-	V
	7	V	V	V			V	V	V	V	-	-	V	-	-	V
	12	V	V	V	V	V	V	V			-	-	V	-	-	V
	13	V	V	V			V	V			-	-	V	-	-	V
	14	V	V	V			V	V			-	-	V	-	-	V
	66/4	V	V	V	V	V	V	V	V	V	-	-	V	-	-	V
Band edge	2	V	V	V	V	V	V	V	V	V	V	V	-	V	-	V
	5	V	V	V	V	V	V	V			V	V	-	V	-	V
	7	V	V	V			V	V	V	V	V	V	-	V	-	V
	12	V	V	V	V	V	V	V			V	V	-	V	-	V
	13	V	V	V			V	V			V	V	-	V	-	V
	14	V	V	V			V	V			V	V	-	V	-	V
	66/4	V	V	V	V	V	V	V	V	V	V	V	-	V	-	V
Spurious at antenna terminal & Radiated Spurious Emissions	2	V	V	V	Worst case											
	5	V	V	V	Worst case											
	7	V	V	V	Worst case											
	12	V	V	V	Worst case											
	13	V	V	V	Worst case											
	14	V	V	V	Worst case											
	66/4	V	V	V	Worst case											

1.16. 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.

1.17. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL003895	2023.03.13	Initial

1.18. Antenna Information

Band	Operating Frequency (MHz)	Antenna Peak Gain (dB i)	
		External	Internal
LTE 2	1 850 ~ 1 910	5.12	2.23
LTE 5	824 ~ 849	0.37	0.75
LTE 7	2 500 ~ 2 570	5.99	2.50
LTE 12	699 ~ 716	-1.05	0.58
LTE 13	777 ~ 787	-0.53	0.44
LTE 14	788 ~ 798	-0.53	0.44
LTE 66/4	1 710 ~ 1 780	5.54	3.15

1.19. Emission Designator and Max Power

- Internal Antenna

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	23.35	2.23	25.58	0.361	1M09G7D
		16QAM			22.68		24.91	0.310	1M10D7D
	3	QPSK	1 851.5	1 908.5	23.33		25.56	0.360	2M69G7D
		16QAM			22.78		25.01	0.317	2M70D7D
	5	QPSK	1 852.5	1 907.5	23.21		25.44	0.350	4M51G7D
		16QAM			22.62		24.85	0.305	4M49D7D
	10	QPSK	1 855	1 905	23.34		25.57	0.361	8M92G7D
		16QAM			22.56		24.79	0.301	8M95D7D
	15	QPSK	1 857.5	1 902.5	23.15		25.38	0.345	13M5G7D
		16QAM			22.56		24.79	0.301	13M5D7D
	20	QPSK	1 860	1 900	23.23		25.46	0.352	17M9G7D
		16QAM			22.57		24.80	0.302	17M9D7D
5	1.4	QPSK	824.7	848.3	24.81	0.75	23.41	0.219	1M09G7D
		16QAM			24.27		22.87	0.194	1M09D7D
	3	QPSK	825.5	847.5	24.86		23.46	0.222	2M69G7D
		16QAM			24.30		22.90	0.195	2M69D7D
	5	QPSK	826.5	846.5	24.91		23.51	0.224	4M49G7D
		16QAM			24.27		22.87	0.194	4M53D7D
	10	QPSK	829	844	24.90		23.50	0.224	8M92G7D
		16QAM			24.23		22.83	0.192	8M95D7D
7	5	QPSK	2 502.5	2 567.5	24.03	2.50	26.53	0.450	4M53G7D
		16QAM			23.46		25.96	0.394	4M51D7D
	10	QPSK	2 505	2 565	24.12		26.62	0.459	8M92G7D
		16QAM			23.53		26.03	0.401	8M95D7D
	15	QPSK	2 507.5	2 562.5	24.19		26.69	0.467	13M5G7D
		16QAM			23.78		26.28	0.425	13M4D7D
	20	QPSK	2 510	2 560	24.33		26.83	0.482	17M9G7D
		16QAM			23.70		26.20	0.417	17M9D7D
12	1.4	QPSK	699.7	715.3	24.87	0.58	23.30	0.214	1M09G7D
		16QAM			24.25		22.68	0.185	1M09D7D
	3	QPSK	700.5	714.5	24.92		23.35	0.216	2M68G7D
		16QAM			24.38		22.81	0.191	2M69D7D
	5	QPSK	701.5	713.5	25.06		23.49	0.223	4M51G7D
		16QAM			24.41		22.84	0.192	4M51D7D
	10	QPSK	704	711	25.09		23.52	0.225	8M95G7D
		16QAM			24.45		22.88	0.194	8M95D7D

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
13	5	QPSK	779.5	784.5	24.75	0.44	23.04	0.201	4M53G7D
		16QAM			24.17		22.46	0.176	4M49D7D
	10	QPSK	782	24.66	22.95		0.197	8M92G7D	
		16QAM		23.97	22.26		0.168	8M92D7D	
14	5	QPSK	790.5	795.5	24.98	0.44	23.27	0.212	4M50G7D
		16QAM			24.40		22.69	0.186	4M51D7D
	10	QPSK	793	24.99	23.28		0.213	8M95G7D	
		16QAM		24.48	22.77		0.189	8M93D7D	
66/4	1.4	QPSK	1 710.7	1 779.3	23.05	3.15	26.20	0.417	1M09G7D
		16QAM			22.52		25.67	0.369	1M09D7D
	3	QPSK	1 711.5	1 778.5	22.97		26.12	0.409	2M69G7D
		16QAM			22.32		25.47	0.352	2M69D7D
	5	QPSK	1 712.5	1 777.5	23.24		26.39	0.436	4M51G7D
		16QAM			22.57		25.72	0.373	4M49D7D
	10	QPSK	1 715	1 775	23.22		26.37	0.434	8M95G7D
		16QAM			22.61		25.76	0.377	8M95D7D
	15	QPSK	1 717.5	1 772.5	23.32		26.47	0.444	13M5G7D
		16QAM			22.59		25.74	0.375	13M5D7D
	20	QPSK	1 720	1 770	23.25		26.40	0.437	18M0G7D
		16QAM			22.56		25.71	0.372	17M9D7D

- External Antenna

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	23.35	5.12	28.47	0.703	1M09G7D
		16QAM			22.68		27.80	0.603	1M10D7D
	3	QPSK	1 851.5	1 908.5	23.33		28.45	0.700	2M69G7D
		16QAM			22.78		27.90	0.617	2M70D7D
	5	QPSK	1 852.5	1 907.5	23.21		28.33	0.681	4M51G7D
		16QAM			22.62		27.74	0.594	4M49D7D
	10	QPSK	1 855	1 905	23.34		28.46	0.701	8M92G7D
		16QAM			22.56		27.68	0.586	8M95D7D
	15	QPSK	1 857.5	1 902.5	23.15		28.27	0.671	13M5G7D
		16QAM			22.56		27.68	0.586	13M5D7D
	20	QPSK	1 860	1 900	23.23		28.35	0.684	17M9G7D
		16QAM			22.57		27.69	0.587	17M9D7D
5	1.4	QPSK	824.7	848.3	24.81	0.37	23.03	0.201	1M09G7D
		16QAM			24.27		22.49	0.177	1M09D7D
	3	QPSK	825.5	847.5	24.86		23.08	0.203	2M69G7D
		16QAM			24.30		22.52	0.179	2M69D7D
	5	QPSK	826.5	846.5	24.91		23.13	0.206	4M49G7D
		16QAM			24.27		22.49	0.177	4M53D7D
	10	QPSK	829	844	24.90		23.12	0.205	8M92G7D
		16QAM			24.23		22.45	0.176	8M95D7D
7	5	QPSK	2 502.5	2 567.5	24.03	5.99	30.02	1.005	4M53G7D
		16QAM			23.46		29.45	0.881	4M51D7D
	10	QPSK	2 505	2 565	24.12		30.11	1.026	8M92G7D
		16QAM			23.53		29.52	0.895	8M95D7D
	15	QPSK	2 507.5	2 562.5	24.19		30.18	1.042	13M5G7D
		16QAM			23.78		29.77	0.948	13M4D7D
	20	QPSK	2 510	2 560	24.33		30.32	1.076	17M9G7D
		16QAM			23.70		29.69	0.931	17M9D7D
12	1.4	QPSK	699.7	715.3	24.87	-1.05	21.67	0.147	1M09G7D
		16QAM			24.25		21.05	0.127	1M09D7D
	3	QPSK	700.5	714.5	24.92		21.72	0.149	2M68G7D
		16QAM			24.38		21.18	0.131	2M69D7D
	5	QPSK	701.5	713.5	25.06		21.86	0.153	4M51G7D
		16QAM			24.41		21.21	0.132	4M51D7D
	10	QPSK	704	711	25.09		21.89	0.155	8M95G7D
		16QAM			24.45		21.25	0.133	8M95D7D

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		
13	5	QPSK	779.5	784.5	24.75	-0.53	22.07	0.161	4M53G7D		
		16QAM			24.17		21.49	0.141	4M49D7D		
	10	QPSK	782		24.66		21.98	0.158	8M92G7D		
		16QAM			23.97		21.29	0.135	8M92D7D		
	14	5	QPSK	790.5	795.5		24.98	-0.53	22.30	0.170	4M50G7D
16QAM			24.40			21.72	0.149		4M51D7D		
10		QPSK	793		24.99	22.31	0.170		8M95G7D		
		16QAM			24.48	21.80	0.151		8M93D7D		
66/4		1.4	QPSK	1 710.7	1 779.3	23.05	5.54		28.59	0.723	1M09G7D
			16QAM			22.52			28.06	0.640	1M09D7D
	3	QPSK	1 711.5	1 778.5	22.97	28.51		0.710	2M69G7D		
		16QAM			22.32	27.86		0.611	2M69D7D		
	5	QPSK	1 712.5	1 777.5	23.24	28.78		0.755	4M51G7D		
		16QAM			22.57	28.11		0.647	4M49D7D		
	10	QPSK	1 715	1 775	23.22	28.76		0.752	8M95G7D		
		16QAM			22.61	28.15		0.653	8M95D7D		
	15	QPSK	1 717.5	1 772.5	23.32	28.86		0.769	13M5G7D		
		16QAM			22.59	28.13		0.650	13M5D7D		
	20	QPSK	1 720	1 770	23.25	28.79		0.757	18M0G7D		
		16QAM			22.56	28.10		0.646	17M9D7D		

1.20. Information of Variant Model

Model Name		Description
Basic Model	TFGMEIBBCD1	- Dual GNSS
Variant Models	TFGMEIBBCD2	- Same to RF module with basic model except following function - Single GNSS and Ultra-super cruise service doesn't supported
	TFGMEIBBCD3	- Same to RF module with basic model except following function - Single GNSS and Ultra-super cruise service doesn't supported - eUICC part is different with TFGMEIBBCD2

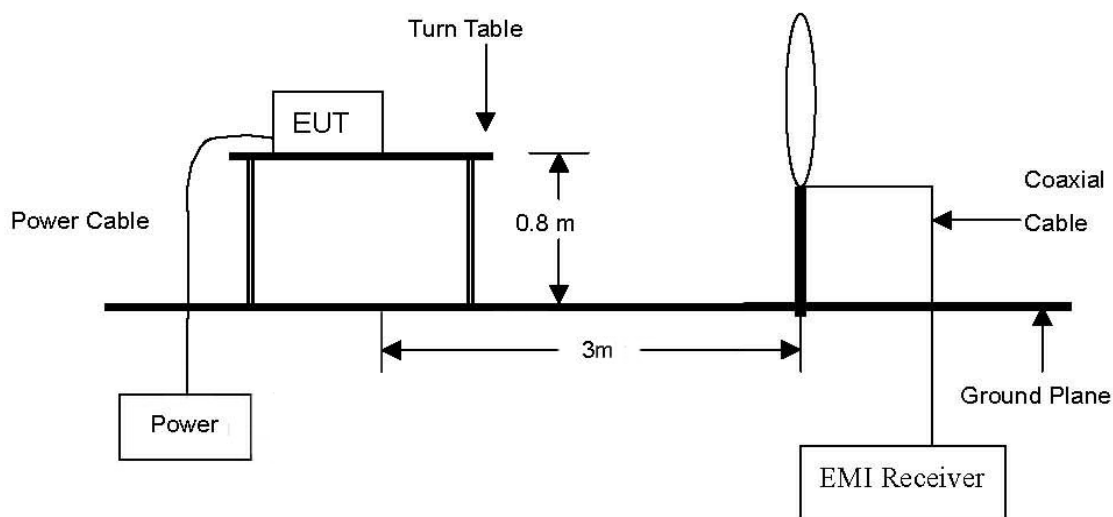
Note;

The all test items performed with basic model.

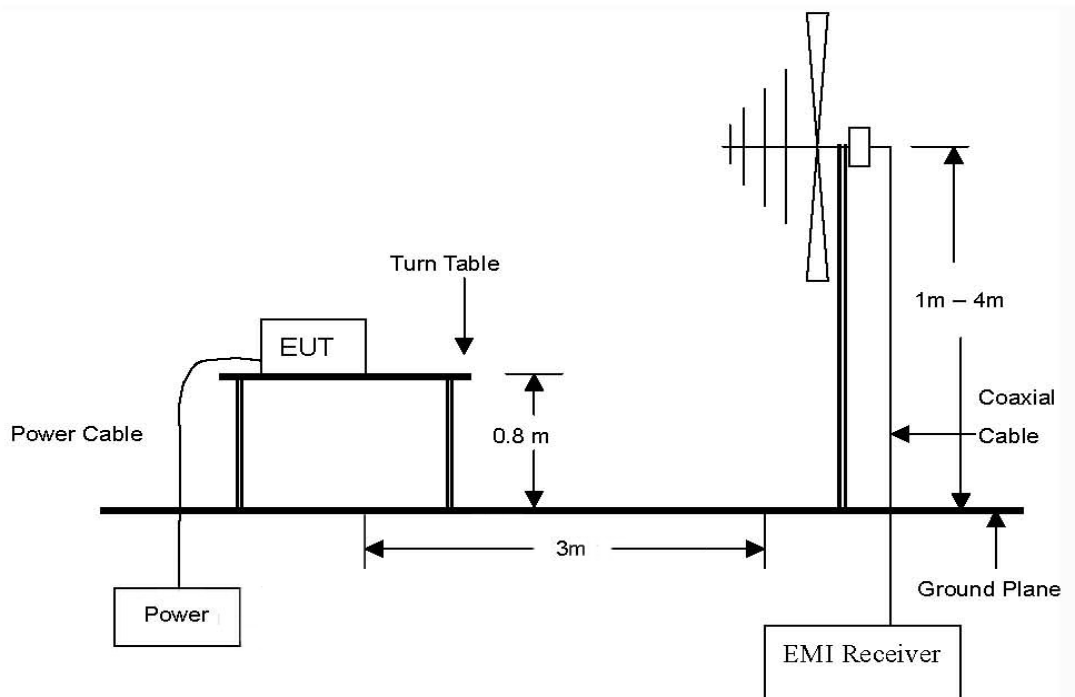
2. E.R.P. / E.I.R.P. & Radiated Spurious Emissions

2.1. Test setup

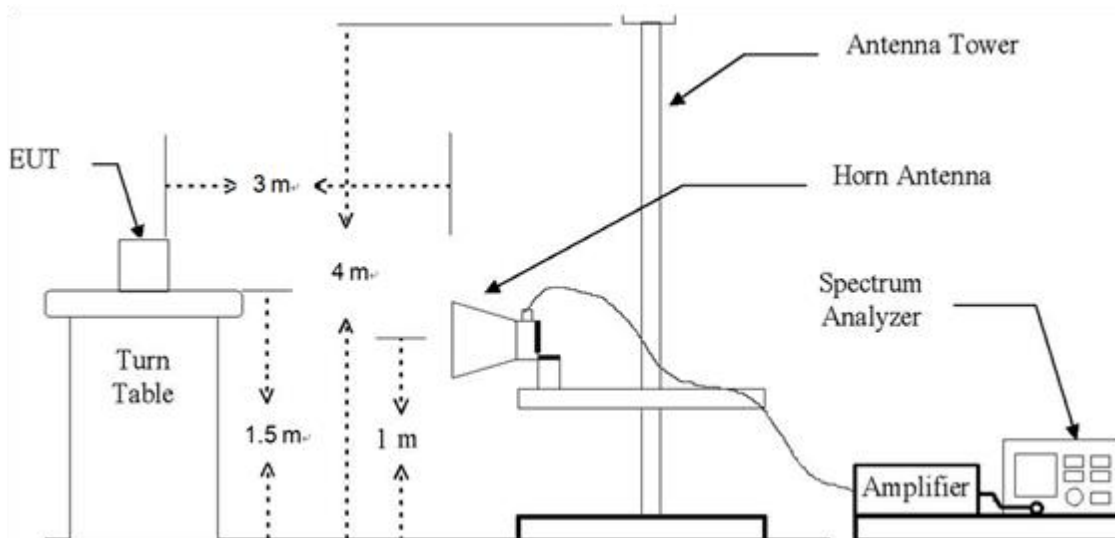
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz.



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 26 GHz Emissions.



2.2. Limit

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

FCC

- §22.913(a)(5), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.
- §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.
- §27.50(b)(10), Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.
- §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.
- §90.542(a)(6), Control stations and mobile stations transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 30 watts ERP.

IC

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

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

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

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

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

- RSS-140 Issue 1
4.3, The equivalent radiated power (e.r.p.) for control and mobile equipment shall not exceed 30 W. The e.r.p. for portable equipment including handheld devices shall not exceed 3 W.

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

2.2.2. Limit of Radiated Spurious Emissions

FCC

- §22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ 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 1559-1 610 MHz shall be limited to -70 dB W/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dB W 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 than $43 + 10 \log_{10} (P)$ 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.
- §90.543(e), For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
 - (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
 - (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
 - (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.
 - (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

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

- §90.543(f), For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1 559-1 610 MHz shall be limited to -70 dB W/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dB W 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.

IC

- RSS-130 Issue 2

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

4.7.2, In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dB W), by at least:

(i) $76 + 10 \log_{10} p$ (watts), dB, for base and fixed equipment, and

(ii) $65 + 10 \log_{10} p$ (watts), dB, for mobile and portable equipment.

b) The e.i.r.p. in the band 1 559-1 610 MHz shall not exceed -70 dB W/MHz for wideband signal and -80 dB W for discrete emission with bandwidth less than 700 Hz.

- RSS-132 Issue 3

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

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

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

- RSS-133 Issue 6

6.5, Equipment shall comply with the limits in (i) and (ii) below.

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

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

- RSS-139 Issue 3

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

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

- RSS-140 Issue 1

4.4, The power of any unwanted emission outside the bands 758-768 MHz and 788-798 MHz shall be attenuated below the transmitter output power P in dB W as follows, where p is the transmitter output power in watts:

a) For any frequency between 769-775 MHz and 799-806 MHz:

i) $76 + 10 \log(p)$, dB in a 6.25 kHz band for fixed and base station equipment

ii) $65 + 10 \log(p)$, dB in a 6.25 kHz band for mobile and portable/hand-held equipment

b) For any frequency between 775-788 MHz, above 806 MHz, and below 758 MHz: $43 + 10 \log(p)$, dB in a bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency bands 758-768 MHz and 788-798 MHz, a resolution bandwidth of 30 kHz may be employed.

In addition, the equivalent isotropically radiated power (e.i.r.p.) of all emissions, including harmonics in the band 1 559-1 610 MHz, shall not exceed -70 dB W/MHz for wideband emissions, and -80 dB W/kHz for discrete emissions of less than 700 Hz bandwidth.

- RSS-199 Issue 3

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

Equipment shall comply with the following unwanted emission limits:

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

i. $40 + 10 \log_{10} p$ from the channel edges to 5 MHz away

ii. $43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and

iii. $55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than $43 + 10 \log_{10} p$ on all frequencies between 2 490.5 MHz and 2 496 MHz, and $55 + 10 \log_{10} p$ at or below 2 490.5 MHz.

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

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

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

- Internal Antenna

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	23.35	0.216	2.23	25.58	0.361			2 W E.I.R.P.
5	824 ~ 849	24.91	0.310	0.75	25.66	0.368	23.51	0.224	7 W E.R.P.
7	2 500 ~ 2 570	24.33	0.271	2.50	26.83	0.482			2 W E.I.R.P.
12	699 ~ 716	25.09	0.323	0.58	25.67	0.369	23.52	0.225	3 W E.R.P.
13	777 ~ 787	24.75	0.299	0.44	25.19	0.33	23.04	0.201	3 W E.R.P.
14	788 ~ 798	24.99	0.316	0.44	25.43	0.349	23.28	0.213	30 W E.R.P.
66/4	1 710 ~ 1 780	23.32	0.215	3.15	26.47	0.444			1 W E.I.R.P.

- External Antenna

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	23.35	0.216	5.12	28.47	0.703			2 W E.I.R.P.
5	824 ~ 849	24.91	0.310	0.37	25.28	0.337	23.13	0.206	7 W E.R.P.
7	2 500 ~ 2 570	24.33	0.271	5.99	30.32	1.076			2 W E.I.R.P.
12	699 ~ 716	25.09	0.323	-1.05	24.04	0.254	21.89	0.155	3 W E.R.P.
13	777 ~ 787	24.75	0.299	-0.53	24.22	0.264	22.07	0.161	3 W E.R.P.
14	788 ~ 798	24.99	0.316	-0.53	24.46	0.279	22.31	0.170	30 W E.R.P.
66/4	1 710 ~ 1 780	23.32	0.215	5.54	28.86	0.769			1 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

- Internal Antenna

LTE band 2 (1.4 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 850.7 MHz)									
3 701.24	48.53	H	32.10	-36.60	44.03	-95.26	-51.23	-13	38.23
3 701.13	47.15	V	32.10	-36.60	42.65	-95.26	-52.61	-13	39.61
5 551.84	51.13	H	33.90	-34.20	50.83	-95.26	-44.43	-13	31.43
5 551.75	50.23	V	33.90	-34.21	49.92	-95.26	-45.34	-13	32.34
Above 5 600.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 880.0 MHz)									
3 759.83	49.07	H	32.16	-36.88	44.35	-95.26	-50.91	-13	37.91
3 759.85	49.71	V	32.16	-36.88	44.99	-95.26	-50.27	-13	37.27
5 639.61	44.48	H	33.90	-33.45	44.93	-95.26	-50.33	-13	37.33
5 639.80	48.69	V	33.90	-33.45	49.14	-95.26	-46.12	-13	33.12
Above 5 700.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 909.3 MHz)									
3 818.49	49.36	H	32.04	-36.45	44.95	-95.26	-50.31	-13	37.31
3 818.38	50.39	V	32.04	-36.45	45.98	-95.26	-49.28	-13	36.28
5 727.74	45.34	H	33.96	-33.55	45.75	-95.26	-49.51	-13	36.51
5 727.73	43.51	V	33.96	-33.55	43.92	-95.26	-51.34	-13	38.34
Above 5 800.00	Not detected	-	-	-	-	-	-	-	-

LTE band 5 (5 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (826.5 MHz)									
1 653.30	51.61	H	25.64	-38.67	38.58	-97.41	-58.83	-13	45.83
1 653.35	65.03	V	25.64	-38.67	52.00	-97.41	-45.41	-13	32.41
4 133.43	50.18	H	31.97	-36.18	45.97	-97.41	-51.44	-13	38.44
4 133.36	46.56	V	31.97	-36.18	42.35	-97.41	-55.06	-13	42.06
6 383.96	53.40	H	34.60	-33.51	54.49	-97.41	-42.92	-13	29.92
6 383.88	50.44	V	34.60	-33.51	51.53	-97.41	-45.88	-13	32.88
Above 6 400.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (836.5 MHz)									
1 673.22	53.42	H	25.88	-38.66	40.64	-97.41	-56.77	-13	43.77
1 673.46	61.66	V	25.88	-38.66	48.88	-97.41	-48.53	-13	35.53
4 183.52	45.11	H	31.93	-36.25	40.79	-97.41	-56.62	-13	43.62
4 183.13	45.67	V	31.93	-36.25	41.35	-97.41	-56.06	-13	43.06
6 384.28	52.93	H	34.60	-33.51	54.02	-97.41	-43.39	-13	30.39
6 383.80	55.81	V	34.60	-33.51	56.90	-97.41	-40.51	-13	27.51
Above 6 400.00	Not detected	-	-	-	-	-	-	-	-
High Channel (846.5 MHz)									
1 693.41	48.30	H	26.12	-38.75	35.67	-97.41	-61.74	-13	48.74
1 693.35	59.41	V	26.12	-38.75	46.78	-97.41	-50.63	-13	37.63
4 233.50	44.52	H	31.77	-35.91	40.38	-97.41	-57.03	-13	44.03
4 233.28	45.73	V	31.77	-35.91	41.59	-97.41	-55.82	-13	42.82
6 384.08	52.66	H	34.60	-33.51	53.75	-97.41	-43.66	-13	30.66
6 383.88	49.24	V	34.60	-33.51	50.33	-97.41	-47.08	-13	34.08
Above 6 400.00	Not detected	-	-	-	-	-	-	-	-

LTE band 7 (20 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 510.0 MHz)									
7 503.59	43.58	H	35.90	-32.96	46.52	-95.26	-48.74	-25	23.74
7 503.26	40.97	V	35.90	-32.96	43.91	-95.26	-51.35	-25	26.35
Above 7 600.00	Not detected	—	—	—	—	—	—	—	—
Middle Channel (2 535.0 MHz)									
7 578.10	44.35	H	35.90	-32.63	47.62	-95.26	-47.64	-25	22.64
7 578.37	45.73	V	35.90	-32.63	49.00	-95.26	-46.26	-25	21.26
Above 7 600.00	Not detected	—	—	—	—	—	—	—	—
High Channel (2 560.0 MHz)									
7 653.20	44.68	H	35.91	-32.40	48.19	-95.26	-47.07	-25	22.07
7 653.28	40.76	V	35.91	-32.40	44.27	-95.26	-50.99	-25	25.99
Above 7 700.00	Not detected	—	—	—	—	—	—	—	—

LTE band 12 (10 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (704.0 MHz)									
1 416.90	52.91	H	25.07	-39.14	38.84	-97.41	-58.57	-13	45.57
1 416.61	63.88	V	25.07	-39.14	49.81	-97.41	-47.60	-13	34.60
4 389.34	40.26	V	32.08	-36.06	36.28	-97.41	-61.13	-13	48.13
6 383.76	54.40	H	34.60	-33.51	55.49	-97.41	-41.92	-13	28.92
6 383.68	51.89	V	34.60	-33.50	52.99	-97.41	-44.42	-13	31.42
Above 6 400.00	Not detected	—	—	—	—	—	—	—	—
Middle Channel (707.5 MHz)									
1 423.89	52.52	H	25.05	-39.14	38.43	-97.41	-58.98	-13	45.98
1 423.72	63.26	V	25.05	-39.14	49.17	-97.41	-48.24	-13	35.24
4 388.76	40.52	V	32.08	-36.05	36.55	-97.41	-60.86	-13	47.86
6 383.70	55.98	H	34.60	-33.50	57.08	-97.41	-44.42	-13	31.42
6 384.08	54.07	V	34.60	-33.51	55.16	-97.41	-42.25	-13	29.25
Above 6 400.00	Not detected	—	—	—	—	—	—	—	—
High Channel (711.0 MHz)									
1 430.73	48.74	H	25.04	-39.13	34.65	-97.41	-62.76	-13	49.76
1 430.88	60.46	V	25.04	-39.13	46.37	-97.41	-51.04	-13	38.04
4 388.82	42.46	V	32.08	-36.05	38.49	-97.41	-58.92	-13	45.92
6 383.78	56.71	H	34.60	-33.51	57.80	-97.41	<u>-39.61</u>	-13	26.61
6 384.36	50.65	V	34.60	-33.51	51.74	-97.41	-45.67	-13	32.67
Above 6 400.00	Not detected	—	—	—	—	—	—	—	—

LTE band 13 (5 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P./E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (779.5 MHz)									
1 554.78	47.31	H	25.32	-38.80	33.83	-97.41	-63.58	-13	50.58
1 554.62	59.97	V	25.32	-38.80	46.49	-97.41	-50.92	-13	37.92
3 886.95	44.97	H	32.17	-36.07	41.07	-97.41	-56.34	-13	43.34
3 887.16	44.34	V	32.17	-36.06	40.45	-97.41	-56.96	-13	43.96
4 388.64	48.84	V	32.08	-36.05	44.87	-97.41	-52.54	-13	39.54
6 383.70	55.61	H	34.60	-33.50	56.71	-97.41	-40.70	-13	27.70
6 383.44	51.81	V	34.60	-33.50	52.91	-97.41	-44.50	-13	31.50
Above 6 400.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (782.0 MHz)									
1 559.80	48.00	H	25.34	-38.77	34.57	-95.26	-60.69	-40	20.69
1 559.66	66.79	V	25.34	-38.77	53.36	-95.26	-41.90	-40	1.90
3 899.20	52.15	H	32.20	-36.02	48.33	-97.41	-49.08	-13	36.08
3 899.26	45.00	V	32.20	-36.02	41.18	-97.41	-56.23	-13	43.23
4 389.35	46.30	V	32.08	-36.06	42.32	-97.41	-55.09	-13	42.09
6 383.76	57.75	H	34.60	-33.51	58.84	-97.41	-38.57	-13	25.57
6 384.14	52.51	V	34.60	-33.51	53.60	-97.41	-43.81	-13	30.81
Above 6 400.00	Not detected	-	-	-	-	-	-	-	-
High Channel (784.5 MHz)									
1 564.61	46.79	H	25.36	-38.75	33.40	-95.26	-61.86	-40	21.86
1 564.69	62.94	V	25.36	-38.75	49.55	-95.26	-45.71	-40	5.71
3 911.48	43.16	H	32.18	-35.97	39.37	-97.41	-58.04	-13	45.04
3 911.85	42.55	V	32.18	-35.97	38.76	-97.41	-58.65	-13	45.65
4 388.76	45.34	V	32.08	-36.05	41.37	-97.41	-56.04	-13	43.04
6 384.63	50.54	H	34.60	-33.51	51.63	-97.41	-45.78	-13	32.78
6 384.20	51.73	V	34.60	-33.51	52.82	-97.41	-44.59	-13	31.59
Above 6 400.00	Not detected	-	-	-	-	-	-	-	-

LTE band 14 (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 (793.0 MHz)									
1 586.04	59.96	V	25.44	-38.65	46.75	-95.26	-48.51	-40	8.51
3 965.36	57.00	H	32.07	-36.20	52.87	-97.41	-44.54	-13	31.54
3 965.51	57.07	V	32.07	-36.20	52.94	-97.41	-44.47	-13	31.47
6 383.74	52.79	H	34.60	-33.51	53.88	-97.41	-43.53	-13	30.53
6 384.22	52.12	V	34.60	-33.51	53.21	-97.41	-44.20	-13	31.20
Above 6 400.00	Not detected	—	—	—	—	—	—	—	—

LTE band 66/4 (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)									
5 172.61	41.40	H	33.39	-35.33	39.46	-95.26	-55.80	-13	42.80
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 745.0 MHz)									
5 254.78	42.65	H	33.62	-35.07	41.20	-95.26	-54.06	-13	41.06
Above 5 300.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 772.5 MHz)									
5 337.19	45.83	H	33.87	-34.70	45.00	-95.26	<u>-50.26</u>	-13	37.26
Above 5 400.00	Not detected	-	-	-	-	-	-	-	-

- External Antenna

LTE band 2 (1.4 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (1 850.7 MHz)									
3 701.64	46.71	V	32.10	-31.98	46.83	-95.26	-48.43	-13	35.43
3 982.75	42.15	V	32.03	-31.23	42.95	-95.26	-52.31	-13	39.31
5 552.39	45.16	V	33.90	-28.40	50.66	-95.26	-44.60	-13	31.60
6 383.58	46.77	V	34.60	-25.69	55.68	-95.26	-39.58	-13	26.58
Above 6 400.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 880.0 MHz)									
3 760.25	45.21	V	32.16	-31.96	45.41	-95.26	-49.85	-13	36.85
3 982.40	40.79	V	32.04	-31.23	41.60	-95.26	-53.66	-13	40.66
5 640.02	39.22	V	33.90	-27.55	45.57	-95.26	-49.69	-13	36.69
6 384.02	49.19	V	34.60	-25.69	58.10	-95.26	-37.16	-13	24.16
Above 6 400.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 909.3 MHz)									
3 818.95	45.37	V	32.04	-31.53	45.88	-95.26	-49.38	-13	36.38
3 985.60	41.72	V	32.03	-31.25	42.50	-95.26	-52.76	-13	39.76
5 728.39	37.05	V	33.96	-27.36	43.65	-95.26	-51.61	-13	38.61
6 384.24	48.78	V	34.60	-25.69	57.69	-95.26	-37.57	-13	24.57
Above 6 400.00	Not detected	-	-	-	-	-	-	-	-

LTE band 5 (5 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (826.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (836.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (846.5 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

LTE band 7 (20 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 510.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 535.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 560.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

LTE band 12 (10 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (704.0 MHz)									
2 125.21	64.17	H	27.55	-35.30	56.42	-97.41	-40.99	-13	27.99
2 152.22	65.22	V	27.60	-35.13	57.69	-97.41	-39.72	-13	26.72
Above 2 200.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (707.5 MHz)									
2 135.69	67.03	H	27.57	-35.24	59.36	-97.41	-38.05	-13	25.05
2 135.78	68.18	V	27.57	-35.24	60.51	-97.41	-36.90	-13	23.90
Above 2 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (711.0 MHz)									
2 146.19	65.10	H	27.59	-35.19	57.50	-97.41	-39.91	-13	26.91
2 146.30	67.33	V	27.59	-35.18	59.74	-97.41	-37.67	-13	24.67
Above 2 200.00	Not detected	-	-	-	-	-	-	-	-

LTE band 13 (5 MHz - QPSK)

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.R.P./E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (779.5 MHz)									
1 554.73	58.48	H	25.32	-38.80	45.00	-97.41	-52.41	-13	39.41
1 554.71	57.39	V	25.32	-38.80	43.91	-97.41	-53.50	-13	40.50
2 332.16	53.07	H	27.80	-34.48	46.39	-97.41	-51.02	-13	38.02
2 331.94	52.63	V	27.80	-34.47	45.96	-97.41	-51.45	-13	38.45
3 886.68	42.36	V	32.17	-31.29	43.24	-97.41	-54.17	-13	41.17
Above 3 900.00	Not detected	—	—	—	—	—	—	—	—
Middle Channel (782.0 MHz)									
1 559.70	59.15	H	25.34	-38.77	45.72	-95.26	-49.54	-40	9.54
1 559.57	59.86	V	25.34	-38.77	46.43	-95.26	-48.83	-40	8.83
2 339.50	53.67	H	27.80	-34.53	46.94	-97.41	-50.47	-13	37.47
2 339.47	55.52	V	27.80	-34.53	48.79	-97.41	-48.62	-13	35.62
3 898.95	43.75	V	32.20	-31.48	44.47	-97.41	-52.94	-13	39.94
Above 3 900.00	Not detected	—	—	—	—	—	—	—	—
High Channel (784.5 MHz)									
1 564.82	57.21	H	25.36	-38.75	43.82	-95.26	-51.44	-40	11.44
1 564.78	58.28	V	25.36	-38.75	44.89	-95.26	-50.37	-40	10.37
2 347.09	55.04	H	27.80	-34.58	48.26	-97.41	-49.15	-13	36.15
2 346.88	58.41	V	27.80	-34.58	51.63	-97.41	-45.78	-13	32.78
3 912.07	43.79	V	32.18	-31.66	44.31	-97.41	-53.10	-13	40.10
Above 4 000.00	Not detected	—	—	—	—	—	—	—	—

LTE band 14 (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 (793.0 MHz)									
1 586.27	62.09	H	25.45	-38.65	48.89	-95.26	-46.37	-40	6.37
1 586.12	57.25	V	25.44	-38.65	44.04	-95.26	-51.22	-40	11.22
2 379.16	54.27	H	27.97	-34.56	47.68	-97.41	-49.73	-13	36.73
2 379.39	55.67	V	27.98	-34.56	49.09	-97.41	-48.32	-13	35.32
3 965.31	46.25	V	32.07	-31.28	47.04	-97.41	-50.37	-13	37.37
Above 4 000.00	Not detected	—	—	—	—	—	—	—	—

LTE band 66/4 (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)									
3 448.37	68.32	H	31.09	-36.75	62.66	-95.26	-32.60	-13	19.60
3 448.36	74.08	V	31.09	-36.75	68.42	-95.26	-26.84	-13	13.84
5 172.45	56.00	H	33.39	-35.33	54.06	-95.26	-41.20	-13	28.20
5 172.49	62.52	V	33.39	-35.33	60.58	-95.26	-34.68	-13	21.68
6 986.67	67.48	H	35.47	-33.06	69.89	-95.26	-25.37	-13	12.37
6 896.49	75.98	V	35.30	-33.52	77.76	-95.26	-17.50	-13	4.50
8 620.74	66.34	H	36.64	-33.89	69.09	-95.26	-26.17	-13	13.17
8 620.75	71.39	V	36.64	-33.89	74.14	-95.26	-21.12	-13	8.12
10 344.82	55.82	H	37.80	-30.66	62.96	-95.26	-32.30	-13	19.30
10 344.93	60.83	V	37.80	-30.66	67.97	-95.26	-27.29	-13	14.29
12 068.90	57.44	H	38.50	-29.87	66.07	-95.26	-29.19	-13	16.19
12 068.85	58.69	V	38.50	-29.87	67.32	-95.26	-27.94	-13	14.94
13 793.23	44.45	H	40.50	-28.52	56.43	-95.26	-38.83	-13	25.83
13 793.38	46.94	V	40.50	-28.52	58.92	-95.26	-36.34	-13	23.34
15 517.44	49.89	H	40.03	-25.47	64.45	-95.26	-30.81	-13	17.81
15 517.38	50.47	V	40.03	-25.47	65.03	-95.26	-30.23	-13	17.23
17 241.62	44.63	H	42.48	-24.26	62.85	-95.26	-32.41	-13	19.41
17 241.62	43.07	V	42.48	-24.26	61.29	-95.26	-33.97	-13	20.97
Above 17 300.00	Not detected	-	-	-	-	-	-	-	-

Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (1 745.0 MHz)									
3 503.31	53.77	H	31.09	-36.68	48.18	-95.26	-47.08	-13	34.08
3 503.29	65.92	V	31.09	-36.68	60.33	-95.26	-34.93	-13	21.93
5 255.06	56.17	H	33.62	-35.06	54.73	-95.26	-40.53	-13	27.53
5 254.86	63.67	V	33.62	-35.07	62.22	-95.26	-33.04	-13	20.04
7 006.58	54.38	H	35.50	-33.08	56.80	-95.26	-38.46	-13	25.46
7 006.71	62.30	V	35.50	-33.08	64.72	-95.26	-30.54	-13	17.54
8 758.48	47.25	H	37.02	-33.62	50.65	-95.26	-44.61	-13	31.61
8 758.32	51.26	V	37.02	-33.62	54.66	-95.26	-40.60	-13	27.60
10 509.72	48.10	H	37.70	-31.05	54.75	-95.26	-40.51	-13	27.51
10 510.13	49.21	V	37.70	-31.05	55.86	-95.26	-39.40	-13	26.40
Above 10 600.00	Not detected	-	-	-	-	-	-	-	-
Frequency (MHz)	Measured Level (dBμV)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
High Channel (1 772.5 MHz)									
3 558.28	51.90	H	31.05	-36.98	45.97	-95.26	-49.29	-13	36.29
3 558.32	60.85	V	31.05	-36.98	54.92	-95.26	-40.34	-13	27.34
5 337.59	53.17	H	33.88	-34.70	52.35	-95.26	-42.91	-13	29.91
5 337.49	58.35	V	33.87	-34.70	57.52	-95.26	-37.74	-13	24.74
7 116.40	45.48	H	35.60	-32.98	48.10	-95.26	-47.16	-13	34.16
7 116.43	52.82	V	35.60	-32.98	55.44	-95.26	-39.82	-13	26.82
8 895.54	40.97	H	37.11	-33.12	44.96	-95.26	-50.30	-13	37.30
8 895.77	44.03	V	37.11	-33.12	48.02	-95.26	-47.24	-13	34.24
Above 8 900.00	Not detected	-	-	-	-	-	-	-	-

Remark;

1. AF = Antenna Factor, CL = Cable Loss, CF = Conversion Factor.
2. E (dBμV/m) = Measured Level (dBμV) + Antenna Factor (dB/m) + AMP (dB) + Cable Loss (dB).
3. E.I.R.P. (dB m) = E (dBμV/m) + CF (dB).
4. E.R.P. (dB m) = E (dBμV/m) + CF (dB) - 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.
5. CF (dB) = 20 log D - 104.8; where D is the measurement distance in meters, According to KDB 971168 D01 v03r01 5.8.4.
6. The frequency spectrum is examined from 9 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.

