

TEST REPORT

of

FCC Part 2 Subpart J, Part 22 Subpart C/H,
Part 24 Subpart E and Part 27 Subpart C,
IC RSS-130 Issue 2, RSS-132 Issue 4, RSS-133 Issue 7,
RSS-139 Issue 4 and RSS-Gen Issue 5

FCC ID: BEJGEN11NAN
IC Certification: 2703H-GEN11NAN

Equipment Under Test : Telematics
Model Name : GEN11NAN
Variant Model Name(s) : -
FCC Applicant : LG Electronics USA, Inc.
IC Applicant : LG ELECTRONICS INC.
Manufacturer : LG Electronics Inc.
Date of Receipt : 2026.05.22
Date of Test(s) : 2026.06.19 ~ 2026.06.24
Date of Issue : 2026.06.29

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

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- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
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We are responsible for all the information of this test report except for the data(※) provided by the customer.

Tested by:



Finn Nam

Technical
Manager:



Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory

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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

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

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

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1.2. Details of Applicant

FCC Applicant : LG Electronics USA, Inc.

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 : 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea, 07336

1.4. Description of EUT

Kind of Product	Telematics
Model Name	GEN11NAN
Variant Model Names	-
Serial Number	603VIQSK55124
Power Supply	DC 12 V
Rated Power	GSM 850: 33 dBm GSM 1 900: 30 dBm WCDMA II, V: 23 dBm WCDMA IV: 22.7 dBm LTE Band 2, 5, 12, 13, 17: 23 dBm LTE Band 4: 22.7 dBm
Frequency Range	GSM 850: 824 MHz ~ 849 MHz GSM 1900: 1 850 MHz ~ 1 910 MHz WCDMA II: 1 850 MHz ~ 1 910 MHz WCDMA IV: 1 710 MHz ~ 1 755 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 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz
Modulation Technique	QPSK, 16QAM, GMSK, 8PSK
Ant. type	folded metal type
H/W Version	CCM Rev.E
S/W Version	v4.58
FVIN	6.65

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Signal Generator	R&S	SMA100B	106887	10/20/2025	Annual	10/20/2026
Spectrum Analyzer	Agilent	N9020A	MY53421758	09/10/2025	Annual	09/10/2026
Communication Analyzer	Anritsu	MT8821C	6262116711	04/28/2026	Annual	04/28/2027
High Pass Filter	Wainwright Instrument GmbH	WHKX 10-900-1000-18000-40SS	64	06/10/2026	Annual	06/10/2027
High Pass Filter	Wainwright Instrument GmbH	WHK3.0/18G-6SS	4	06/10/2026	Annual	06/10/2027
High Pass Filter	Wainwright Instrument GmbH	WHNX7.5/26.5G-6SS	15	06/10/2026	Annual	06/10/2027
DC Power Supply	Agilent	U8002A	MY49030063	01/19/2026	Annual	01/19/2027
Preamplifier	R&S	SCU-18	101058	06/02/2026	Annual	06/02/2027
Test Receiver	R&S	ESU26	100109	01/21/2026	Annual	01/21/2027
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	10/01/2025	Biennial	10/01/2027
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB9163	01126	03/09/2026	Biennial	03/09/2028
Horn Antenna	R&S	HF906	100326	03/03/2026	Annual	03/03/2027
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA9170	9170-540	12/05/2025	Annual	12/05/2026
Antenna Master	Innco systems GmbH	MA4640-XP-ET	MA4640/536/3 8330516/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	CO3000/963/3 8330516/L	N. C. R.	N/A	N. C. R.
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N. C. R.	N/A	N. C. R.
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-5 m	TPC24021900 04	04/17/2026	Semi-Annual	10/17/2026
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-10 m	TPC24021900 01	04/17/2026	Semi-Annual	10/17/2026
Coaxial Cable	Qualwave	QT50P-40-KK-1.5	24270074	04/10/2026	Semi-Annual	10/10/2026
Coaxial Cable	RADIAL	TESTPRO 3	182290	04/10/2026	Semi-Annual	10/10/2026
Coaxial Cable	RADIAL	TESTPRO 3	182291	04/10/2026	Semi-Annual	10/10/2026

1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 2, 22, 24 and 27 / IC part RSS-130 Issue 2, RSS-132 Issue 4, RSS-133 Issue 7, RSS-139 Issue 4 and RSS-Gen Issue 5			
Section in FCC	Section in IC	Test Item	Result
§22.913(a)(5) §24.232(c) §27.50(b)(9) §27.50(c)(9) §27.50(d)(4)	RSS-130 Issue 2 4.6 RSS-132 Issue 4 5.4 RSS-133 Issue 7 5.5 RSS-139 Issue 4 5.5	E.R.P. / E.I.R.P.	Pass ¹⁾
§22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)(1)	RSS-130 Issue 2 4.7 RSS-132 Issue 4 5.5 RSS-133 Issue 7 5.6 RSS-139 Issue 4 5.6	Radiated Spurious Emissions	Pass ¹⁾
§2.1046	RSS-Gen Issue 5 6.12	Conducted Output Power	Pass ²⁾
§2.1049	RSS-Gen Issue 5 6.7	Occupied Bandwidth	Pass ²⁾
§22.913(d) §24.232(d) §27.50(d)(5)	RSS-130 Issue 2 4.6 RSS-132 Issue 4 5.4 RSS-133 Issue 7 5.5 RSS-139 Issue 4 5.5	Peak-Average Ratio	Pass ²⁾
§22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)(1)	RSS-130 Issue 2 4.7 RSS-132 Issue 4 5.5 RSS-133 Issue 7 5.6 RSS-139 Issue 4 5.6	Spurious Emission at Antenna Terminal	Pass ²⁾
§22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)(1)	RSS-130 Issue 2 4.7 RSS-132 Issue 4 5.5 RSS-133 Issue 7 5.6 RSS-139 Issue 4 5.6	Band Edge	Pass ²⁾
§2.1055 §22.355 §24.235 §27.54	RSS-Gen Issue 5 6.11 RSS-130 Issue 2 4.5 RSS-132 Issue 4 5.3 RSS-133 Issue 7 5.6 RSS-139 Issue 4 5.4	Frequency Stability	Pass ²⁾

Note;

- 1) This product is a C2PC case due to the addition of antenna. So only radiation test was performed and the rules for E.R.P. / E.I.R.P. and radiated spurious emission were satisfied.
- 2) The test items were used the results from original test report.

1.7. Sample Calculation for Offset

Where relevant, the following sample calculation is provided:

1.7.1. Radiation test

- E.I.R.P. (dB m) = Measured level (dB μ V) + Antenna factor (dB) + 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. Measurement Uncertainty

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

Parameter		Uncertainty
Radiated Emission, 9 kHz to 30 MHz	H	3.60 dB
	V	3.60 dB
Radiated Emission, below 1 GHz	H	5.50 dB
	V	5.10 dB
Radiated Emission, above 1 GHz	H	3.50 dB
	V	3.40 dB

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

1.9. Test report revision

Revision	Report number	Date of Issue	Description
0	F690501-RF-RTL0007120	2026.06.29	Initial

1.10. Antenna Information

Band	Operating Frequency (MHz)	Antenna Peak Gain (dB i)	
		External	
		Previous Worst gain	Additional
LTE 12	699 ~ 716	4.26	4.35
LTE 17	704 ~ 716	4.26	4.35
LTE 13	777 ~ 787	4.26	4.35
GSM 850	824 ~ 849	3.81	4.00
WCDMA V	824 ~ 849	3.81	4.00
LTE 5	824 ~ 849	3.81	4.00
WCDMA IV	1 710 ~ 1 755	6.19	0.42
LTE4	1 710 ~ 1 755	6.19	0.42
GSM 1900	1 850 ~ 1 910	5.33	2.50
WCDMA II	1 850 ~ 1 910	5.33	2.50
LTE 2	1 850 ~ 1 910	5.33	2.50

1.11. Radiated Spurious Emission

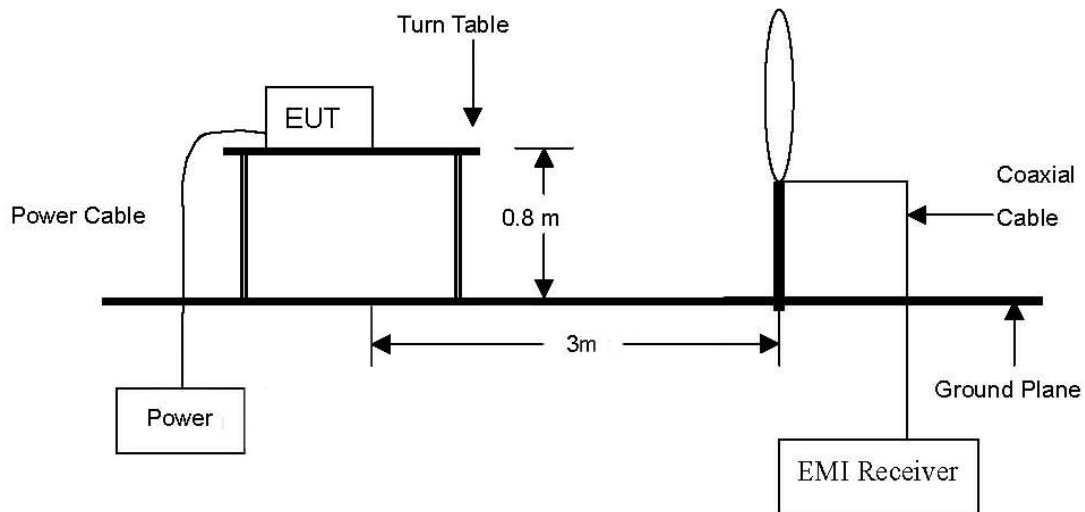
The Radiated spurious emissions were tested in the band with the lowest margin of previously data and selected respectively above 1 GHz and below 1 GHz.

Fundamental Frequency Range	Worst Case
Below 1 GHz	LTE Band 12/17
Above 1 GHz	LTE Band 2

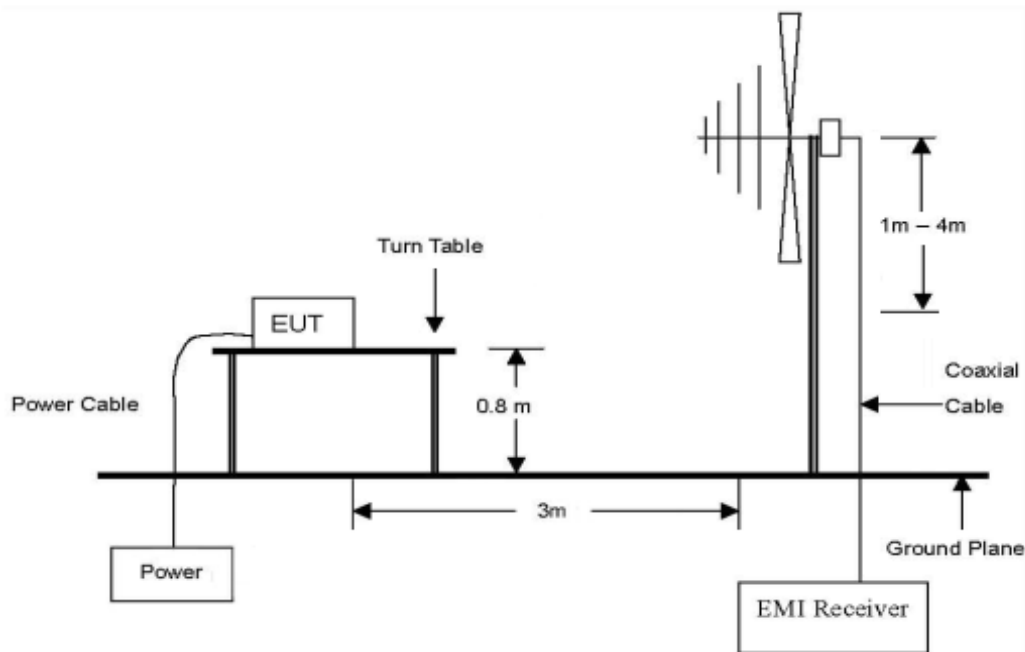
2. E.R.P. / E.I.R.P. & Radiated Spurious Emissions

2.1. Test Setup

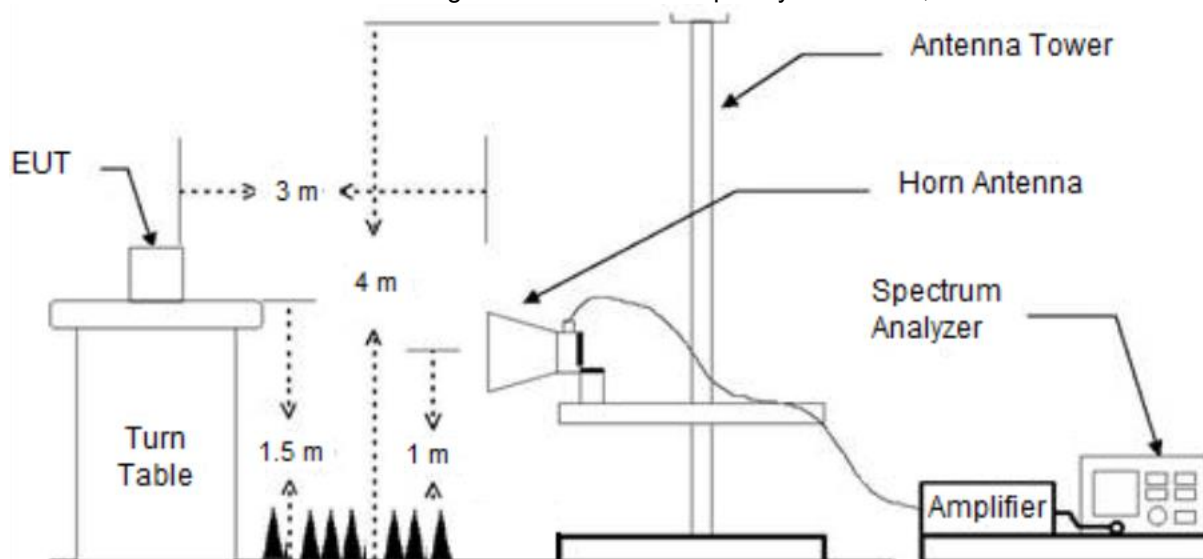
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 000 MHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.



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)(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 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

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 4

4.5.4, The transmitter output power shall be measured in terms of average power. The equivalent radiated power (e.r.p.) shall not exceed 7 watts for mobile equipment and 3 watts for portable equipment. The effective isotropic radiated power (e.i.r.p.) shall not exceed the limits specified in SRSP-503 for base station equipment.

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

-RSS-133 Issue 7

5.5, The maximum power spectral density of the equipment, measured in terms of average values, shall comply with the limits specified in table 2. These limits are either specified in terms of equivalent isotropically radiated power (e.i.r.p.) or TRP for the purpose of certification and may not apply to all deployment scenarios. Consult SRSP-510 for more deployment details in the bands 1850-1915 MHz and 1930-1995 MHz. AAS equipment with eight antenna elements or less can demonstrate compliance with the e.i.r.p limit specified for non-AAS equipment in table 2, instead of the TRP limit.

Table 2: Maximum power spectral density of equipment

Equipment type	Maximum power
Non-AAS fixed station and base station	3280 W/MHz e.i.r.p
AAS fixed station and base station	46 dB m /MHz TRP
Subscriber equipment	2 W / channel bandwidth e.i.r.p.

In addition, the peak-to-average power ratio (PAPR) of the equipment shall not exceed 13 dB for more than 0.1% of the time, using a signal corresponding to the highest PAPR during periods of continuous transmission

- RSS-139 Issue 4

5.5, The maximum output power of the equipment shall comply with the limits specified below. In the tables, maximum power refers to the equivalent isotropically radiated power (e.i.r.p.) or total radiated power (TRP), measured in terms of average values.

Table 3: Maximum power of equipment in the band 1 710-1 780 MHz

Equipment type	Maximum power
Fixed station and base station	30 dBm e.i.r.p./ channel bandwidth
Subscriber equipment	30 dBm e.i.r.p./ channel bandwidth

2.2.2 Limit of Radiated spurious emission

FCC

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

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 4

5.5, Equipment shall meet the unwanted emission limits specified 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 below the transmitter output power P (dB W) by at least $43 + 10 \log(p)$ dB.

(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 below the transmitter output power P (dB W) by at least $43 + 10 \log(p)$ dB. If the measurement is performed using 1 % of the occupied bandwidth, power integration over 100 kHz is required.

- RSS-133 Issue 7

5.6, Unwanted emissions shall be measured in terms of average values while the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen.

Equipment shall meet the unwanted emission limits, specified in table 3, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range.

For the unwanted emission limits, in the 1 MHz bands immediately outside and adjacent to the frequency block group, the power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth (OBW). Beyond these 1 MHz bands, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth may be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% of the OBW, as applicable.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table 3.

Table 3: Unwanted emission limits for all equipment

Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
≤ 1	-13 dB m/(1% of OBW)
> 1	-13 dB m/MHz

- RSS-139 Issue 4

5.6, Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits

Offset from the edge of the frequency block or frequency block group	Unwanted emission limit
≤ 1 MHz	-13 dB m/(1% of OB)*
> 1 MHz	-13 dB m

* OB is the occupied bandwidth

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:

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

where:

E.R.P. or E.I.R.P. = effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

2.3.2. Radiated Spurious Emissions

The test based on ANSI 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 Result

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

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

Band	Frequency (MHz)	Maximum Conducted Power (dB m)	Maximum Conducted Power (W)	Ant. Gain (dB i)	Duty	E.I.R.P. (dB m)	E.I.R.P. (W)	E.R.P. (dB m)	E.R.P. (W)	Output Power Limit
GSM 850	824 ~ 849	32.96	1.96	4.00	0.25	30.94	1.24	28.79	0.76	7 W E.R.P.
GSM 1900	1 850 ~ 1 910	30.53	1.13	2.50	0.25	27.01	0.50			2 W E.I.R.P.

Band	Frequency (MHz)	Maximum Conducted Power (dB m)	Maximum Conducted Power (W)	Ant. Gain (dB i)	E.I.R.P. (dB m)	E.I.R.P. (W)	E.R.P. (dB m)	E.R.P. (W)	Output Power Limit
WCDMA II	1 850 ~ 1 910	22.57	0.18	2.50	25.07	0.32			2 W E.I.R.P.
WCDMA IV	1 710 ~ 1 755	22.55	0.18	0.42	22.97	0.20			1 W E.I.R.P.
WCDMA V	824 ~ 849	22.47	0.18	4.00	26.47	0.44	24.32	0.27	7 W E.R.P.
LTE 2	1 850 ~ 1 910	22.98	0.20	2.50	25.48	0.35			2 W E.I.R.P.
LTE 4	1 710 ~ 1 755	22.71	0.19	0.42	23.13	0.21			1 W E.I.R.P.
LTE 5	824 ~ 849	23.10	0.20	4.00	27.10	0.51	24.95	0.31	7 W E.R.P.
LTE 12	699 ~ 716	23.13	0.21	4.35	27.48	0.56	25.33	0.34	30 W E.R.P.
LTE 13	777 ~ 787	23.21	0.21	4.35	27.56	0.57	25.41	0.35	30 W E.R.P.
LTE 17	704 ~ 716	22.96	0.20	4.35	27.31	0.54	25.16	0.33	30 W E.R.P.

Remark;

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

The following table shows the highest levels of radiated emissions.

LTE band 2 (15 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 (1 857.5 MHz)									
3 701.65	66.66	H	32.11	-31.24	67.53	-95.26	-27.73	-13	14.73
3 701.70	69.15	V	32.11	-31.25	70.01	-95.26	-25.25	-13	12.25
5 552.58	60.17	H	34.01	-28.04	66.14	-95.26	-29.12	-13	16.12
5 552.44	60.83	V	34.00	-28.05	66.78	-95.26	-28.48	-13	15.48
7 403.34	57.73	H	36.29	-29.47	64.55	-95.26	-30.71	-13	17.71
7 403.34	50.30	V	36.29	-29.47	57.12	-95.26	-38.14	-13	25.14
9 254.07	45.88	H	37.11	-23.20	59.79	-95.26	-35.47	-13	22.47
9 254.29	43.09	V	37.11	-23.20	57.00	-95.26	-38.26	-13	25.26
11 105.13	46.63	H	38.30	-23.68	61.25	-95.26	-34.01	-13	21.01
11 105.02	47.34	V	38.30	-23.68	61.96	-95.26	-33.30	-13	20.30
Above 11 200.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 880.0 MHz)									
3 746.73	51.58	H	32.29	-31.77	52.10	-95.26	-43.16	-13	30.16
3 746.64	54.16	V	32.29	-31.77	54.68	-95.26	-40.58	-13	27.58
5 620.13	53.07	H	34.10	-27.80	59.37	-95.26	-35.89	-13	22.89
5 620.02	46.95	V	34.10	-27.80	53.25	-95.26	-42.01	-13	29.01
9 366.69	41.49	H	37.37	-22.93	55.93	-95.26	-39.33	-13	26.33
11 240.18	39.98	V	38.30	-22.24	56.04	-95.26	-39.22	-13	26.22
13 113.06	37.68	H	39.20	-19.91	56.97	-95.26	-38.29	-13	25.29
Above 13 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 902.5 MHz)									
3 791.66	52.61	H	32.38	-31.19	53.80	-95.26	-41.46	-13	28.46
3 791.68	55.47	V	32.38	-31.19	56.66	-95.26	-38.60	-13	25.60
5 687.62	49.93	H	34.18	-27.17	56.94	-95.26	-38.32	-13	25.32
5 687.46	46.41	V	34.17	-27.17	53.41	-95.26	-41.85	-13	28.85
Above 5 700.00	Not detected	-	-	-	-	-	-	-	-

LTE band 12/17 (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 MHz)									
1 398.49	57.01	H	25.10	-36.90	45.21	-97.41	-52.20	-13	39.20
1 398.53	54.83	V	25.10	-36.89	43.04	-97.41	-54.37	-13	41.37
2 097.73	51.44	H	27.90	-34.64	44.70	-97.41	-52.71	-13	39.71
2 097.69	50.49	V	27.90	-34.64	43.75	-97.41	-53.66	-13	40.66
Above 2 100.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (707.5 MHz)									
1 414.15	60.33	H	25.13	-36.86	48.60	-97.41	-48.81	-13	35.81
1 414.14	55.04	V	25.13	-36.86	43.31	-97.41	-54.10	-13	41.10
2 121.14	54.24	H	27.77	-34.93	47.08	-97.41	-50.33	-13	37.33
2 121.12	51.47	V	27.77	-34.93	44.31	-97.41	-53.10	-13	40.10
Above 2 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (711 MHz)									
1 429.71	62.42	H	25.16	-36.86	50.72	-97.41	-46.69	-13	33.69
1 429.76	55.89	V	25.16	-36.86	44.19	-97.41	-53.22	-13	40.22
2 144.60	58.39	V	27.63	-35.00	51.02	-97.41	-46.39	-13	33.39
2 144.69	52.33	H	27.63	-35.00	44.96	-97.41	-52.45	-13	39.45
Above 2 200.00	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 ANSI C63.26-2015 5.2.7
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.

-End of the Test report-