

# 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 3, RSS-133 Issue 6,  
RSS-139 Issue 3, RSS-199 Issue 3 and RSS-Gen Issue 5

FCC ID: BEJTM05NNNABM0  
IC Certification: 2703H-TM05NNNABM0

Equipment Under Test : Module  
Model Name : TM05NNNABM0  
Variant Model Name(s) : -  
Applicant : FCC: LG Electronics USA  
: IC: LG ELECTRONICS INC.  
Manufacturer : LG Electronics Inc.  
Date of Receipt : 2021.04.02  
Date of Test(s) : 2020.04.06 ~ 2021.09.13  
Date of Issue : 2021.09.14

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

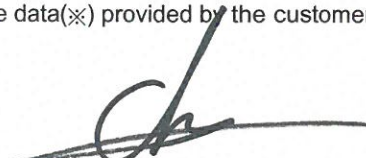
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- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
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We are responsible for all the information of this test report except for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

Tested by:

  
Nancy Park

Technical  
Manager:

  
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**SGS Korea Co., Ltd. Gunpo Laboratory**



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Report Number: F690501-RF-RTL002383-1

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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  
 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 : Kim, Sung-soo  
 Phone No. : +1 201 266 2215

### 1.3. Details of Manufacturer

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

### 1.4. Description of EUT

<b>Kind of Product</b>		Module
<b>Model Name</b>		TM05NNNABM0
<b>Serial Number</b>		Conducted: 352881170000019, Radiated: 352881170026303
<b>Power Supply</b>		DC 12.5 V
<b>Rated Power</b>		NR Band 2, 5, 25, 41, 66, 71: 23 dB m
<b>Frequency Range</b>	<b>SIM 1</b>	NR Band 2(only NSA): 1 850 MHz ~ 1 910 MHz NR Band 5(only NSA): 824 MHz ~ 849 MHz NR Band 25: 1 850 MHz ~ 1 915 MHz NR Band 41(FCC): 2 496 MHz ~ 2 690 MHz NR Band 41(IC): 2 500 MHz ~ 2 690 MHz NR Band 66: 1 710 MHz ~ 1 780 MHz NR Band 71: 663 MHz ~ 698 MHz
	<b>SIM 2</b>	NR Band 25: 1 850 MHz ~ 1 915 MHz NR Band 41(FCC): 2 496 MHz ~ 2 690 MHz NR Band 41(IC): 2 500 MHz ~ 2 690 MHz NR Band 66: 1 710 MHz ~ 1 780 MHz NR Band 71: 663 MHz ~ 698 MHz
<b>Modulation Technique</b>		BPSK, QPSK, 16QAM, 64QAM, 256QAM
<b>Antenna Type</b>		External Antenna (Refer to the clause 1.11)
<b>Antenna Gain*</b>		Refer to the clause 1.11
<b>H/W Version</b>		Rev.C
<b>S/W Version</b>		v001.139.141

### 1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Signal Generator	R&S	SMR40	100272	Jun. 16, 2021	Annual	Jun. 16, 2022
Signal Generator	R&S	SMVB100A	255834	May 31, 2021	Annual	May 31, 2022
Spectrum Analyzer	R&S	FSV30	103453	Nov. 04, 2020	Annual	Nov. 04, 2021
Spectrum Analyzer	Agilent	N9020A	MY53421758	Aug. 27, 2021	Annual	Aug. 27, 2022
Spectrum Analyzer	Agilent	N9030A	US51350132	Nov. 12, 2020	Annual	Nov. 12, 2021
Communication test station	Anritsu	MT8000A	6261949671	Oct. 08, 2020	Annual	Oct. 08, 2021
Communication Analyzer	Anritsu	MT8821C	6262192291	Oct. 08, 2020	Annual	Oct. 08, 2021
Power Meter	Anritsu	ML2495A	1223004	Jun. 01, 2021	Annual	Jun. 01, 2022
Power Sensor	Anritsu	MA2411B	1207272	Jun. 01, 2021	Annual	Jun. 01, 2022
Temperature Chamber	ESPEC CORP.	PL-2J	15004184	Jun. 02, 2021	Annual	Jun. 02, 2022
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-2	Feb. 08, 2021	Annual	Feb. 08, 2022
High Pass Filter	Wainwright Instrument GmbH	WHKX10-900-1000-18000-40SS	7	Mar. 08, 2021	Annual	Mar. 08, 2022
High Pass Filter	Wainwright Instrument GmbH	WHKX2.2/12.75G-10SS	8	Mar. 04, 2021	Annual	Mar. 04, 2022
High Pass Filter	Wainwright Instrument GmbH	WHK3.0/18G-10SS	21	Jun. 04, 2021	Annual	Jun. 04, 2022
High Pass Filter	Wainwright Instrument GmbH	WHK7.5/26.5G-6SS	11	May 17, 2021	Annual	May 17, 2022
Directional Coupler	KRYTAR	152613	122660	Jun. 15, 2021	Annual	Jun. 15, 2022
Power Divider	KRYTAR	6005265	158078	May 21, 2021	Annual	May 21, 2022
DC Power Supply	Agilent	U8002A	MY49030063	Feb. 02, 2021	Annual	Feb. 02, 2022
Preamplifier	H.P.	8447F	2944A03909	Aug. 06, 2021	Annual	Aug. 06, 2022
Preamplifier	R&S	SCU-18	10117	Jun. 09, 2021	Annual	Jun. 09, 2022
Preamplifier	TESTEK	TK-PA1840H	130016	Jan. 07, 2021	Annual	Jan. 07, 2022
Test Receiver	R&S	ESU26	100109	Feb. 19, 2021	Annual	Feb. 19, 2022
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 23, 2021	Biennial	Aug. 23, 2023
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB9163	01126	Dec. 12, 2020	Biennial	Dec. 12, 2022
Horn Antenna	R&S	HF906	100326	Feb. 04, 2021	Annual	Feb. 04, 2022
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA9170	9170-540	Nov. 26, 2020	Annual	Nov. 26, 2021
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	Jul. 05, 2021	Semi-Annual	Jan. 05, 2022
Coaxial Cable	RFONE	PL520-NMNM-10M (10 m)	20200324001	Jul. 05, 2021	Semi-Annual	Jan. 05, 2022
Coaxial Cable	RADIALL	TESTPRO 3	182287	Aug. 18, 2021	Semi-annual	Feb. 18, 2022
Coaxial Cable	RADIALL	TESTPRO 3	182288	Aug. 18, 2021	Semi-annual	Feb. 18, 2022
Coaxial Cable	RADIALL	TESTPRO 3	182291	Aug. 18, 2021	Semi-annual	Feb. 18, 2022

► Support Equipment

Description	Manufacturer	Model	Serial Number
N/A	-	-	-

## 1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

<b>APPLIED STANDARD: FCC Part 2, 22, 24 and 27 / IC RSS-Gen Issue 5, RSS-130 Issue 2, RSS-132 Issue 3, RSS-133 Issue 6, RSS-139 Issue 3 and RSS-199 Issue 3</b>			
Section(s) in FCC	Section(s) in IC	Test Item	Result
§22.913(a)(5) §24.232(c) §27.50(d)(4) §27.50(h)(2)	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-199 Issue 3 4.4	E.R.P. / E.I.R.P.	Complied
§22.917(a) §24.238(a) §27.53(h)(1) §27.53(m)(4)	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-199 Issue 3 4.5	Spurious Radiated Emission	Complied
§2.1046	RSS-Gen Issue 5 6.12	Conducted Output Power	Complied
§2.1049	RSS-Gen Issue 5 6.7	Occupied Bandwidth	Complied
§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-199 Issue 3 4.4	Peak-Average Ratio	Complied
§22.917(a) §24.238(a) §27.53(h)(1) §27.53(m)(4)	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-199 Issue 3 4.5	Spurious Emission at Antenna Terminal	Complied
§22.917(a) §24.238(a) §27.53(h)(1) §27.53(m)(4)	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-199 Issue 3 4.5	Band Edge	Complied
§2.1055 §22.355 §24.235 §27.54	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-199 Issue 3 4.3	Frequency Stability	Complied

## 1.7. Sample Calculation for Offset

Where relevant, the following sample calculation is provided:

### 1.7.1. Conducted Test

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

### 1.7.2. Radiation test

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

### 1.8. Manufacturer Declaration

EUT has two (SIM1 and SIM2) ports, all testing were performed both SIM1, SIM2. SIM2 is support only SA mode.

#### - NSA Band Information

NR Band	SCS (kHz)	Bandwidth (MHz)	Waveform	Modulation	ENDC LTE Band
n2	15	5, 10, 15, 20	DFTS OFDM, CP OFDM	BPSK, QPSK, 16QAM, 64QAM 256QAM	5, 12, 13, 71
n5	15	5, 10, 15, 20			2
n25	15	5, 10, 15, 20, 25, 30, 40			12
n41	30	20, 30, 40, 50, 60, 80, 90, 100			5, 26
n66	15	5, 10, 15, 20, 40			5, 12, 13, 71
n71	15	5, 10, 15, 20			2, 66

### 1.9. Worst Case Configuration and Mode

The worst-case is based on the conducted output power measurement investigation results. All testing was performed using BPSK, QPSK, 16QAM, 64QAM and 256QAM modulations. If both SA and NSA were supported, SA was tested as worst case and NSA was tested only spurious radiated emission for worst conducted output power combination. For NSA only supported bands, all tests were performed.

On ENDC mode, only spurious radiated emission were tested as worst case for worst conducted output power combination.

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.

The peak to average ratio were tested only 256QAM modulation as worst case.

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



### 1.10. Measurement Configuration

Test Items	Band	Test Channel			Bandwidth (㎐)											Modulation DFTS-OFDM					Modulation CP-OFDM			RB #				
		Low	Mid	High	5	10	15	20	25	30	40	50	60	80	90	100	BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	1	Half	Full
Conducted Output Power	n25	V	V	V	V	V	V	V	V	V	V						V	V	V	V	V	V	V	V	V	V	V	V
	n41	V	V	V				V		V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	n66	V	V	V	V	V	V	V			V						V	V	V	V	V	V	V	V	V	V	V	V
	n71	V	V	V	V	V	V	V									V	V	V	V	V	V	V	V	V	V	V	V
Frequency Stability	n25	-	V	-	-	-	-	V	-	-	-						V	-	-	-	-	-	-	-	-	-	-	V
	n41	-	V	-				V		-	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	V
	n66	-	V	-	-	-	-	V			-						V	-	-	-	-	-	-	-	-	-	-	V
	n71	-	V	-	-	-	-	V									V	-	-	-	-	-	-	-	-	-	-	V
Occupied Bandwidth	n25	-	V	-	V	V	V	V	V	V	V						V	V	V	-	-	V	V	-	-	-	-	V
	n41	-	V	-	V	V	V	V		V	V	V	V	V	V	V	V	V	V	-	-	V	V	-	-	-	-	V
	n66	-	V	-				V			V						V	V	V	-	-	V	V	-	-	-	-	V
	n71	-	V	-	V	V	V	V									V	V	V	-	-	V	V	-	-	-	-	V
Peak-to-Average Ratio	n25	V	V	V	V	V	V	V	V	V	V						-	-	-	-	V	-	-	-	V	-	-	V
	n41	V	V	V				V		V	V	V	V	V	V	V	-	-	-	-	V	-	-	-	V	-	-	V
	n66	V	V	V	V	V	V	V			V						-	-	-	-	V	-	-	-	V	-	-	V
	n71	V	V	V	V	V	V	V									-	-	-	-	V	-	-	-	V	-	-	V
Band edge SIM 1	n25	V	-	V	V	V	V	V	V	V	V						V	-	V	-	-	V	V	-	-	V	-	V
	n41	V	-	V				V		V	V	V	V	V	V	V	V	-	V	-	-	V	V	-	-	V	-	V
	n66	V	-	V	V	V	V	V			V						V	-	V	-	-	V	V	-	-	V	-	V
	n71	V	-	V	V	V	V	V									V	-	V	-	-	V	V	-	-	V	-	V
Spurious at antenna terminal SIM 1	n25	V	V	V	-	-	-	-	-	-	V						V	-	-	-	-	-	-	-	-	V	-	-
	n41 (FCC)	V	V	V				-		V	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	V	-	-
	n41 (IC)	V	V	V				-		-	V	-	-	-	-	-	V	-	-	-	-	-	-	-	-	V	-	-
	n66	V	V	V	-	-	-	-			V						V	-	-	-	-	-	-	-	-	V	-	-
n71	V	V	V	-	-	-	V									V	-	-	-	-	-	-	-	-	V	-	-	
Spurious Radiated Emission SIM 1	n25	V	V	V	-	-	-	-	-	-	V						V	-	-	-	-	-	-	-	-	V	-	-
	n41 (FCC)	V	V	V				-		V	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	V	-	-
	n41 (IC)	V	V	V				-		-	V	-	-	-	-	-	V	-	-	-	-	-	-	-	-	V	-	-
	n66	V	V	V	-	-	-	-			V						V	-	-	-	-	-	-	-	-	V	-	-
n71	V	V	V	-	-	-	V									V	-	-	-	-	-	-	-	-	V	-	-	

Test Items	Band	Test Channel			Bandwidth (㎐)											Modulation DFTS-OFDM					Modulation CP-OFDM			RB #				
		Low	Mid	High	5	10	15	20	25	30	40	50	60	80	90	100	BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	1	Half	Full
Band edge SIM 2	n25	V	-	V	V	V	V	V	V	V	V						-	V	V	-	-	V	V	-	-	V	-	V
	n41	V	-	V				V		V	V	V	V	V	V	V	V	-	V	-	-	V	V	-	-	V	-	V
	n66	V	-	V	V	V	V	V			V						V	-	V	-	-	V	V	-	-	V	-	V
	n71	V	-	V	V	V	V	V									-	V	V	-	-	V	V	-	-	V	-	V
Spurious at antenna terminal SIM 2	n25	V	V	V	-	-	-	V	-	-	-						-	V	-	-	-	-	-	-	-	V	-	-
	n41	V	V	V				-		V	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	V	-	-
	n66	V	V	V	-	-	-	-			V						V	-	-	-	-	-	-	-	-	V	-	-
	n71	V	V	V	V	-	-	-									-	V	-	-	-	-	-	-	-	V	-	-
Spurious Radiated Emission SIM 2	n25	V	V	V	-	-	-	V	-	-	-						-	V	-	-	-	-	-	-	-	V	-	-
	n41	V	V	V				-		V	-	-	-	-	-	-	V	-	-	-	-	-	-	-	-	V	-	-
	n66	V	V	V	-	-	-	-			V						V	-	-	-	-	-	-	-	-	V	-	-
	n71	V	V	V	V	-	-	-									-	V	-	-	-	-	-	-	-	V	-	-

**ENDC**

Test Items	NR Band	Test Channel			Bandwidth (MHz)											Modulation DFTS-OFDM					Modulation CP-OFDM				RB #				
		Low	Mid	High	5	10	15	20	25	30	40	50	60	80	90	100	BPSK	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	1	Half	Full	
Conducted Output Power	n2	V	V	V	V	V	V	V									V	V	-	-	-	-	-	-	-	-	V	-	-
	n5	V	V	V	V	V	V	V									V	V	-	-	-	-	-	-	-	-	V	-	-
	n25	V	V	V	V	V	V	V	V	V	V						V	V	-	-	-	-	-	-	-	-	V	-	-
	n41	V	V	V				V		V	V	V	V	V	V	V	V	V	V	-	-	-	-	-	-	-	V	-	-
	n66	V	V	V	V	V	V	V			V						V	V	-	-	-	-	-	-	-	-	V	-	-
	n71	V	V	V	V	V	V	V									V	V	-	-	-	-	-	-	-	-	V	-	-
Frequency Stability	n2	-	V	-	V	V	V	V									V	-	-	-	-	-	-	-	-	V	-	-	
	n5	-	V	-	V	V	V	V									V	-	-	-	-	-	-	-	-	V	-	-	
	n25	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	
	n41	-	-	-				-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	n66	-	-	-	-	-	-	-			-						-	-	-	-	-	-	-	-	-	-	-	-	
	n71	-	-	-	-	-	-	-			-						-	-	-	-	-	-	-	-	-	-	-	-	
Occupied Bandwidth	n2	-	V	-	V	V	V	V									V	V	V	-	-	V	V	-	-	-	-	V	
	n5	-	V	-	V	V	V	V									V	V	V	-	-	V	V	-	-	-	-	V	
	n25	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	
	n41	-	-	-				-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	n66	-	-	-	-	-	-	-			-						-	-	-	-	-	-	-	-	-	-	-	-	
	n71	-	-	-	-	-	-	-			-						-	-	-	-	-	-	-	-	-	-	-	-	
Peak-to-Average Ratio	n2	V	V	V	V	V	V	V									-	-	-	-	V	-	-	-	V	-	-	V	
	n5	V	V	V	V	V	V	V									-	-	-	-	V	-	-	-	V	-	-	V	
	n25	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	
	n41	-	-	-				-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	n66	-	-	-	-	-	-	-			-						-	-	-	-	-	-	-	-	-	-	-	-	
	n71	-	-	-	-	-	-	-			-						-	-	-	-	-	-	-	-	-	-	-	-	
Band edge	n2	V	-	V	V	V	V	V									V	-	V	-	-	V	V	-	-	V	-	V	
	n5	V	-	V	V	V	V	V									V	-	V	-	-	V	V	-	-	V	-	V	
	n25	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	
	n41	-	-	-				-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	n66	-	-	-	-	-	-	-			-						-	-	-	-	-	-	-	-	-	-	-	-	
	n71	-	-	-	-	-	-	-			-						-	-	-	-	-	-	-	-	-	-	-	-	
Spurious at antenna terminal	n2	V	V	V	-	-	-	V									V	-	-	-	-	-	-	-	-	V	-	-	
	n5	V	V	V	-	-	V	-									V	-	-	-	-	-	-	-	-	V	-	-	
	n25	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	
	n41	-	-	-				-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	n66	-	-	-	-	-	-	-			-						-	-	-	-	-	-	-	-	-	-	-	-	
	n71	-	-	-	-	-	-	-			-						-	-	-	-	-	-	-	-	-	-	-	-	
Spurious Radiated Emission	n2	V	V	V	-	-	-	V									V	-	-	-	-	-	-	-	-	V	-	-	
	n5	V	V	V	-	-	V	-									V	-	-	-	-	-	-	-	-	V	-	-	
	n25	V	V	V	-	-	-	-	V	-	-						V	-	-	-	-	-	-	-	-	-	-	-	
	n41	V	V	V				-		-	V	-	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	
	n66	V	V	V	-	-	-	-			V						V	-	-	-	-	-	-	-	-	-	-	-	
	n71	V	V	V	V	-	-	-	-								V	-	-	-	-	-	-	-	-	-	-	-	

**Note;**

- All measurement was performed with 1RB or Full RB or both, we chosen RB condition for each test items as worst case.



**Radiated Emission Test**

**SIM 1**

NR Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Resource Block Allocation	
				RBs allocated	RB Start
n25	15	40	DFTS OFDM - BPSK	1	214
n41 (FCC)	30	30	DFTS OFDM - BPSK	1	1
n41 (IC)	30	40	DFTS OFDM - BPSK	1	1
n66	15	40	DFTS OFDM - BPSK	1	1
n71	15	20	DFTS OFDM - BPSK	1	53

**ENDC**

NR Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Resource Block Allocation	
				RBs allocated	RB Start
13A-n2A	15	5-20	DFTS OFDM - BPSK	1	104
2A-n5	15	5-15	DFTS OFDM - BPSK	1	77
12A-n25	15	5-25	DFTS OFDM - BPSK	1	131
5A-n41 (FCC)	30	5-40	DFTS OFDM - BPSK	1	1
5A-n41 (IC)	30	5-40	DFTS OFDM - BPSK	1	1
5A-n66	15	5-40	DFTS OFDM - BPSK	1	1
2A-n71	15	5-5	DFTS OFDM - BPSK	1	13

**SIM 2**

NR Band	SCS (kHz)	Bandwidth (MHz)	Modulation	Resource Block Allocation	
				RBs allocated	RB Start
n25	15	20	DFTS OFDM - QPSK	1	104
n41 (FCC)	30	30	DFTS OFDM - BPSK	1	1
n41 (IC)	30	30	DFTS OFDM - BPSK	1	1
n66	15	40	DFTS OFDM - BPSK	1	1
n71	15	5	DFTS OFDM - QPSK	1	23

### 1.11. Antenna Designation

#### SIM 1

Antenna Type	Antenna No.	Antenna Name	Antenna Part Number
Trunk	1	Antenna Box (basic)	8705921
	2	MSA TEL	920631001
	3	MSA TEL SDARS	920361002
Roof	4	DA WAVE HAF 5G-US	8705914-05
	5	DA WAVE High 5G-US	5A09D90-09

Operating Frequency (MHz)		Antenna Peak Gain (dB i)			
		Ant. No	Ant. Gain	Cable Loss	Final Gain
NR Band 71	663 ~ 698	Ant. 1	-3.00	0.22	-3.22
		Ant. 2	2.20	0.52	1.68
		Ant. 3	2.50	0.52	<b>1.98</b>
		Ant. 4	-3.80	-	-3.80
		Ant. 5	-3.40	-	-3.40
NR Band 5	824 ~ 849	Ant. 1	3.00	0.22	<b>2.78</b>
		Ant. 2	2.10	0.52	1.58
		Ant. 3	2.30	0.52	1.78
		Ant. 4	-0.40	-	-0.40
		Ant. 5	-0.20	-	-0.20
NR Band 66	1 710 ~ 1 780	Ant. 1	5.00	0.30	4.70
		Ant. 2	5.40	0.73	4.67
		Ant. 3	5.80	0.73	<b>5.07</b>
		Ant. 4	2.70	-	2.70
		Ant. 5	3.00	-	3.00
NR Band 25/2	1 850 ~ 1 915	Ant. 1	5.00	0.34	4.66
		Ant. 2	6.20	0.82	<b>5.38</b>
		Ant. 3	5.90	0.82	5.08
		Ant. 4	2.80	-	2.80
		Ant. 5	2.30	-	2.30
NR Band 41	2 496 ~ 2 690	Ant. 1	5.00	0.40	4.60
		Ant. 2	6.60	0.96	<b>5.64</b>
		Ant. 3	6.50	0.96	5.54
		Ant. 4	3.30	-	3.30
		Ant. 5	3.00	-	3.00

- The Roof type antennas are directly connected to the EUT, so there is no cable loss.

#### Test Case

Operating Frequency (MHz)		Ant. 1 (basic)	Ant. 2	Ant. 3	Ant. 4	Ant. 5
NR Band 25	1 850 ~ 1 915	V	V	-	-	-
NR Band 41	2 496 ~ 2 690	V	V	-	-	-
NR Band 66	1 710 ~ 1 780	V	-	V	-	-
NR Band 71	663 ~ 698	V	-	-	-	-
ENDC_13A-n2A	1 850 ~ 1 910	V	V	-	-	-
ENDC_2A-n5A	824 ~ 849	V	-	-	-	-

**SIM 2**

Antenna Type	Antenna No.	Antenna Name	Antenna Part Number
Trunk	1	Antenna Box	8705921
	2	FSA WAVE 5G (left/right)	8705919/8705920
	3	HKL Mobilradioantenna (basic)	5A2D602
	4	ZB Spoilerantenna	5A0C5B0

Operating Frequency (MHz)		Antenna Peak Gain (dB i)			
		Ant. No	Ant. Gain	Cable Loss	Final Gain
NR Band 71	663 ~ 698	Ant. 1	-3.00	0.57	-3.57
		Ant. 2	4.00	0.57	3.43
		Ant. 3	5.00	0.57	<b>4.43</b>
		Ant. 4	4.00	0.57	3.43
NR Band 66	1 710 ~ 1 780	Ant. 1	5.00	0.79	4.21
		Ant. 2	4.00	0.79	3.21
		Ant. 3	5.00	0.79	<b>4.21</b>
		Ant. 4	4.00	0.79	3.21
NR Band 25	1 850 ~ 1 915	Ant. 1	5.00	0.89	4.11
		Ant. 2	4.00	0.89	3.11
		Ant. 3	5.00	0.89	<b>4.11</b>
		Ant. 4	4.00	0.89	3.11
NR Band 41	2 496 ~ 2 690	Ant. 1	5.00	1.04	3.96
		Ant. 2	5.00	1.04	3.96
		Ant. 3	5.00	1.04	<b>3.96</b>
		Ant. 4	4.00	1.04	2.96

**Test Case**

Operating Frequency (MHz)		Ant. 1	Ant. 2	Ant. 3 (basic)	Ant. 4
NR Band 25	1 850 ~ 1 915	-	-	V	-
NR Band 41	2 496 ~ 2 690	-	-	V	-
NR Band 66	1 710 ~ 1 780	-	-	V	-
NR Band 71	663 ~ 698	-	-	V	-

**Note;**

- The EUT has basic antenna (SIM 1: Antenna Box, SIM 2: HKL Mobilradioantenna) and all antennas support all NR bands.
- For the radiated spurious emission test, Basic Antennas were used at all NR band. Additional tests were performed using antennas with the highest antenna gain in each band.
- According to manufacturer's antenna specification, only the highest antenna gain of each antenna is reported.

### 1.12. Measurement Uncertainty

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

Parameter	Uncertainty	
RF Output Power	± 0.36 dB	
Occupied Bandwidth	± 13.12 kHz	
Conducted Spurious Emissions	± 0.63 dB	
Peak to Average Ratio	± 0.60 dB	
Frequency Stability	± 4.92 kHz	
Radiated Emission, 9 kHz to 30 MHz	H	± 3.66 dB
	V	± 3.66 dB
Radiated Emission, below 1 GHz	H	± 4.90 dB
	V	± 4.82 dB
Radiated Emission, above 1 GHz	H	± 3.62 dB
	V	± 3.64 dB

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

### 1.13. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL002383	2021.07.28	Initial
1	F690501-RF-RTL002383-1	2021.09.14	Additional test for 256 QAM Mode

### 1.15. Emission Designator and Max Power

**SIM 1**

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.I.R.P. Average (dB m)	E.I.R.P. Average (W)	Emission Designator
n25	5	DFTS-OFDM	BPSK	1 852.5	1 912.5	23.13	5.38	28.51	0.710	4M49G7D
			QPSK			23.23		28.61	0.726	4M49G7D
			16QAM			22.67		28.05	0.638	4M49D7D
		CP-OFDM	QPSK			21.88		27.26	0.532	4M52G7D
			16QAM			22.21		27.59	0.574	4M50D7D
			10			DFTS-OFDM		BPSK	1 855	1 910
	QPSK	23.10		28.48	0.705			8M94G7D		
	16QAM	22.37		27.75	0.596			8M94D7D		
	CP-OFDM	QPSK		21.97	27.35	0.543		9M29G7D		
		16QAM		22.18	27.56	0.570		9M26D7D		
		15		DFTS-OFDM	BPSK	1 857.5		1 907.5		
	QPSK		23.18		28.56				0.718	13M6G7D
	16QAM		22.68		28.06				0.640	13M5D7D
	CP-OFDM		QPSK	21.65	27.03				0.505	14M2G7D
			16QAM	22.14	27.52				0.565	14M1D7D
			20	DFTS-OFDM	BPSK				1 860	1 905
	QPSK	23.15			28.53	0.713		17M9G7D		
	16QAM	22.92			28.30	0.676		17M9D7D		
	CP-OFDM	QPSK		21.91	27.29	0.536		18M9G7D		
		16QAM		22.37	27.75	0.596		19M0D7D		
		25		DFTS-OFDM	BPSK	1 862.5		1 902.5		
	QPSK		23.44		28.82				0.762	22M9G7D
	16QAM		22.78		28.16				0.655	22M9D7D
	CP-OFDM		QPSK	21.58	26.96				0.497	23M9G7D
			16QAM	22.34	27.72				0.592	23M8D7D
			30	DFTS-OFDM	BPSK				1 865	1 900
	QPSK	23.49			28.87	0.771		28M7G7D		
	16QAM	22.79			28.17	0.656		28M7D7D		
	CP-OFDM	QPSK		21.79	27.17	0.521		28M6G7D		
		16QAM		22.48	27.86	0.611		28M6D7D		
		40		DFTS-OFDM	BPSK	1 870		1 895		
	QPSK		23.45		28.83				0.764	38M7G7D
	16QAM		22.73		28.11				0.647	38M7D7D
	CP-OFDM		QPSK	21.44	26.82				0.481	38M6G7D
			16QAM	22.23	27.61				0.577	38M6D7D

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.I.R.P. Average (dB m)	E.I.R.P. Average (W)	Emission Designator			
n41 FCC	20	DFTS-OFDM	BPSK	2 506.02	2 679.99	21.82	5.64	27.46	0.557	17M9G7D			
			QPSK			21.72		27.36	0.545	17M9G7D			
			16QAM			20.71		26.35	0.432	17M9D7D			
		CP-OFDM	QPSK			20.48		26.12	0.409	18M2G7D			
			16QAM			19.85		25.49	0.354	18M3D7D			
						22.34		27.98	0.628	26M9G7D			
	30	DFTS-OFDM	BPSK	2 511	2 674.98	22.27		27.91	0.618	27M0G7D			
			QPSK			21.04		26.68	0.466	26M9D7D			
			16QAM			20.74		26.38	0.435	28M0G7D			
		CP-OFDM	QPSK			20.34		25.98	0.396	27M9D7D			
			16QAM			22.29		27.93	0.621	35M9G7D			
						QPSK		22.31	27.95	0.624	35M9G7D		
	40	DFTS-OFDM	16QAM	2 516.01	2 670	21.11		26.75	0.473	35M8D7D			
			CP-OFDM			QPSK		20.78	26.42	0.439	38M0G7D		
						16QAM		20.44	26.08	0.406	38M1D7D		
		50	DFTS-OFDM			BPSK		2 521.02	2 664.99	21.97	27.61	0.577	45M7G7D
						QPSK				22.11	27.75	0.596	45M9G7D
						16QAM				20.67	26.31	0.428	45M6D7D
	CP-OFDM		QPSK	20.50	26.14	0.411				46M6G7D			
			16QAM	19.95	25.59	0.362				47M5D7D			
				21.97	27.61	0.577				58M2G7D			
	60	DFTS-OFDM	QPSK	2 526	2 659.98	22.15		27.79	0.601	58M2G7D			
			16QAM			20.55		26.19	0.416	58M2D7D			
			CP-OFDM			QPSK		20.72	26.36	0.433	58M2G7D		
		16QAM				20.40		26.04	0.402	58M0D7D			
						21.96		27.60	0.575	77M3G7D			
		80	DFTS-OFDM			QPSK		2 536.02	2 649.99	22.14	27.78	0.600	77M1G7D
	16QAM			20.69	26.33	0.430				77M3D7D			
	CP-OFDM			QPSK	20.58	26.22				0.419	77M6G7D		
			16QAM	20.00	25.64	0.366				77M6D7D			
				21.98	27.62	0.578				86M7G7D			
	90		DFTS-OFDM	QPSK	2 541	2 644.98				22.21	27.85	0.610	87M0G7D
		16QAM		20.53				26.17	0.414	87M0D7D			
		CP-OFDM		QPSK				20.55	26.19	0.416	87M3G7D		
			16QAM	20.05				25.69	0.371	87M3D7D			
				21.79				27.43	0.553	96M1G7D			
		100	DFTS-OFDM	QPSK				2 546.01	2 640	22.09	27.73	0.593	96M4G7D
	16QAM			20.44	26.08	0.406				96M4D7D			
	CP-OFDM			QPSK	20.66	26.30				0.427	97M5G7D		
			16QAM	19.71	25.35	0.343				97M5D7D			

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.I.R.P. Average (dB m)	E.I.R.P. Average (W)	Emission Designator
n41 IC	20	DFTS-OFDM	BPSK	2 510.01	2 679.99	21.98	5.64	27.62	0.578	17M9G7D
			QPSK			21.94		27.58	0.573	17M9G7D
			16QAM			20.87		26.51	0.448	17M9D7D
		CP-OFDM	QPSK			20.71		26.35	0.432	18M2G7D
			16QAM			20.13		25.77	0.378	18M2D7D
			30			DFTS-OFDM		BPSK	2 515.02	2 674.98
	QPSK	22.29		27.93	0.621			26M7G7D		
	16QAM	21.12		26.76	0.474			26M9D7D		
	CP-OFDM	QPSK		20.81	26.45	0.442		27M9G7D		
		16QAM		20.11	25.75	0.376		27M9D7D		
		40		DFTS-OFDM	BPSK	2 520		2 670		
	QPSK		22.32		27.96				0.625	35M9G7D
	16QAM		20.95		26.59				0.456	35M8D7D
	CP-OFDM		QPSK	20.91	26.55				0.452	38M0G7D
			16QAM	20.41	26.05				0.403	38M0D7D
			50	DFTS-OFDM	BPSK				2 525.01	2 664.99
	QPSK	22.27			27.91	0.618		45M9G7D		
	16QAM	20.36			26.00	0.398		45M6D7D		
	CP-OFDM	QPSK		20.59	26.23	0.420		47M5G7D		
		16QAM		20.09	25.73	0.374		47M5D7D		
		60		DFTS-OFDM	BPSK	2 530.02		2 659.98		
	QPSK		22.02		27.66				0.583	58M0G7D
	16QAM		20.32		25.96				0.394	58M0D7D
	CP-OFDM		QPSK	20.63	26.27				0.424	58M2G7D
			16QAM	20.02	25.66				0.368	58M0D7D
			80	DFTS-OFDM	BPSK				2 540.01	2 649.99
	QPSK	22.20			27.84	0.608		77M6G7D		
	16QAM	20.85			26.49	0.446		77M3D7D		
	CP-OFDM	QPSK		20.70	26.34	0.431		77M6G7D		
		16QAM		20.05	25.69	0.371		77M6D7D		
		90		DFTS-OFDM	BPSK	2 545.02		2 644.98		
	QPSK		22.27		27.91				0.618	87M3G7D
	16QAM		20.81		26.45				0.442	86M7D7D
	CP-OFDM		QPSK	20.98	26.62				0.459	87M8G7D
			16QAM	19.88	25.52				0.356	87M3D7D
			100	DFTS-OFDM	BPSK				2 550	2 640
	QPSK	22.15			27.79	0.601		96M4G7D		
	16QAM	20.87			26.51	0.448		96M4D7D		
	CP-OFDM	QPSK		21.01	26.65	0.462		97M5G7D		
		16QAM		20.52	26.16	0.413		97M5D7D		



NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.I.R.P. Average (dB m)	E.I.R.P. Average (W)	Emission Designator
n66	5	DFTS-OFDM	BPSK	1 712.5	1 777.5	22.11	5.07	27.18	0.522	4M50G7D
			QPSK			22.09		27.16	0.520	4M49G7D
			16QAM			21.78		26.85	0.484	4M47D7D
		CP-OFDM	QPSK			21.15		26.22	0.419	4M52G7D
			16QAM			21.44		26.51	0.448	4M50D7D
			BPSK			22.15		27.22	0.527	8M92G7D
	10	DFTS-OFDM	QPSK	1 715	1 775	22.12		27.19	0.524	8M97G7D
			16QAM			21.94		27.01	0.502	8M94D7D
			BPSK			22.17		27.24	0.530	13M5G7D
		CP-OFDM	QPSK			22.15		27.22	0.527	13M5G7D
			16QAM			21.93		27.00	0.501	13M5D7D
			QPSK			20.82		25.89	0.388	14M2G7D
	15	DFTS-OFDM	16QAM	1 717.5	1 772.5	21.39		26.46	0.443	14M2D7D
			BPSK			22.15		27.22	0.527	17M9G7D
			QPSK			22.53		27.60	0.575	17M8G7D
		CP-OFDM	16QAM			21.73		26.80	0.479	17M9D7D
			QPSK			20.81		25.88	0.387	18M9G7D
			16QAM			21.45		26.52	0.449	19M0D7D
	20	DFTS-OFDM	BPSK	1 720	1 770	22.73		27.80	0.603	38M4G7D
			QPSK			22.59		27.66	0.583	38M7G7D
			16QAM			22.42		27.49	0.561	38M6D7D
		CP-OFDM	QPSK			20.64		25.71	0.372	38M6G7D
			16QAM			21.55		26.62	0.459	38M6D7D
			BPSK			22.33		27.16	0.164	4M49G7D

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. Average (dB m)	E.R.P. Average (W)	Emission Designator
n71	5	DFTS-OFDM	BPSK	665.5	695.5	22.33	1.98	22.16	0.164	4M49G7D
			QPSK			22.49		22.32	0.171	4M50G7D
			16QAM			21.57		21.40	0.138	4M49D7D
		CP-OFDM	QPSK			20.73		20.56	0.114	4M49G7D
			16QAM			21.26		21.09	0.129	4M52D7D
			BPSK			22.31		22.14	0.164	8M92G7D
	10	DFTS-OFDM	QPSK	668	693	22.28		22.11	0.163	8M94G7D
			16QAM			21.48		21.31	0.135	8M94D7D
			BPSK			22.41		22.24	0.167	13M4G7D
		CP-OFDM	QPSK			22.28		22.11	0.163	13M6G7D
			16QAM			21.47		21.30	0.135	13M5D7D
			QPSK			20.75		20.58	0.114	14M2G7D
	15	DFTS-OFDM	16QAM	670.5	690.5	20.47		20.30	0.107	14M1D7D
			BPSK			22.55		22.38	0.173	17M8G7D
			QPSK			22.49		22.32	0.171	17M9G7D
		CP-OFDM	16QAM			21.86		21.69	0.148	17M9D7D
			QPSK			20.97		20.80	0.120	18M9G7D
			16QAM			20.72		20.55	0.114	18M9D7D

**ENDC**

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.I.R.P. Average (dB m)	E.I.R.P. Average (W)	Emission Designator
13A-n2A	5	DFTS-OFDM	BPSK	1 852.5	1 907.5	23.14	5.38	28.52	0.711	4M48G7D
			QPSK			23.02		28.40	0.692	4M48G7D
			16QAM			22.10		27.48	0.560	4M48D7D
		CP-OFDM	QPSK			21.78		27.16	0.520	4M48G7D
			16QAM			21.77		27.15	0.519	4M48D7D
			10			DFTS-OFDM		BPSK	1 855	1 905
	QPSK	23.06		28.44	0.698			8M93G7D		
	16QAM	22.29		27.67	0.585			8M95D7D		
	CP-OFDM	QPSK		21.89	27.27	0.533		9M31G7D		
		16QAM		21.76	27.14	0.518		9M27D7D		
		15		DFTS-OFDM	BPSK	1 857.5		1 902.5		
	QPSK		23.13		28.51				0.710	13M5G7D
	16QAM		22.38		27.76				0.597	13M4D7D
	CP-OFDM		QPSK	21.80	27.18				0.522	14M1G7D
			16QAM	22.03	27.41				0.551	14M1D7D
			20	DFTS-OFDM	BPSK				1 860	1 900
	QPSK	23.27			28.65	0.733		17M8G7D		
	16QAM	22.39			27.77	0.598		17M9D7D		
	CP-OFDM	QPSK		21.91	27.29	0.536		18M9G7D		
		16QAM		22.09	27.47	0.558		18M9D7D		

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. Average (dB m)	E.R.P. Average (W)	Emission Designator
2A-n5A	5	DFTS-OFDM	BPSK	826.5	846.5	23.79	2.78	24.42	0.277	4M48G7D
			QPSK			23.67		24.30	0.269	4M48G7D
			16QAM			22.84		23.47	0.222	4M48D7D
		CP-OFDM	QPSK			22.14		22.77	0.189	4M48G7D
			16QAM			21.92		22.55	0.180	4M48D7D
			10			DFTS-OFDM		BPSK	829	844
	QPSK	23.67		24.30	0.269			8M95G7D		
	16QAM	22.81		23.44	0.221			8M93D7D		
	CP-OFDM	QPSK		22.28	22.91	0.195		9M29G7D		
		16QAM		22.16	22.79	0.190		9M27D7D		
		15		DFTS-OFDM	BPSK	831.5		841.5		
	QPSK		23.78		24.41				0.276	13M5G7D
	16QAM		22.78		23.41				0.219	13M4D7D
	CP-OFDM		QPSK	22.07	22.70				0.186	14M1G7D
			16QAM	22.28	22.91				0.195	14M1D7D
			20	DFTS-OFDM	BPSK				834	839
	QPSK	23.77			24.40	0.275		17M9G7D		
	16QAM	22.64			23.27	0.212		17M8D7D		
	CP-OFDM	QPSK		21.90	22.53	0.179		18M8G7D		
		16QAM		22.03	22.66	0.185		18M9D7D		

**SIM 2**

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.I.R.P. Average (dB m)	E.I.R.P. Average (W)	Emission Designator
n25	5	DFTS-OFDM	BPSK	1 852.5	1 912.5	23.34	4.11	27.45	0.556	4M49G7D
			QPSK			23.22		27.33	0.541	4M47G7D
			16QAM			22.46		26.57	0.454	4M49D7D
		CP-OFDM	QPSK			21.92		26.03	0.401	4M50G7D
			16QAM			22.02		26.13	0.410	4M50D7D
						23.22		27.33	0.541	8M94G7D
	10	DFTS-OFDM	BPSK	1 855	1 910	23.23		27.34	0.542	8M92G7D
			QPSK			22.78		26.89	0.489	8M94D7D
			16QAM			21.86		25.97	0.395	9M29G7D
		CP-OFDM	QPSK			22.19		26.30	0.427	9M26D7D
			16QAM			23.25		27.36	0.545	13M5G7D
						QPSK		23.30	27.41	0.551
	15	DFTS-OFDM	BPSK	1 857.5	1 907.5	22.92		27.03	0.505	13M5D7D
			QPSK			21.68		25.79	0.379	14M2G7D
			16QAM			21.97		26.08	0.406	14M2D7D
		CP-OFDM	QPSK			23.30		27.41	0.551	17M9G7D
			16QAM			23.69		27.80	0.603	17M9G7D
						22.74		26.85	0.484	17M9D7D
	20	DFTS-OFDM	BPSK	1 860	1 905	21.78		25.89	0.388	18M9G7D
			QPSK			22.32		26.43	0.440	19M0D7D
			16QAM			23.56		27.67	0.585	22M9G7D
		CP-OFDM	QPSK			23.52		27.63	0.579	23M0G7D
			16QAM			22.95		27.06	0.508	22M9D7D
						21.79		25.90	0.389	23M9G7D
	25	DFTS-OFDM	BPSK	1 862.5	1 902.5	22.46		26.57	0.454	23M8D7D
			QPSK			23.52		27.63	0.579	28M7G7D
			16QAM			23.59		27.70	0.589	28M7G7D
		CP-OFDM	QPSK			22.56		26.67	0.465	28M7D7D
			16QAM			21.61		25.72	0.373	28M6G7D
						22.48		26.59	0.456	28M6D7D
	30	DFTS-OFDM	BPSK	1 865	1 900	23.65		27.76	0.597	38M4G7D
			QPSK			23.57		27.68	0.586	38M7G7D
			16QAM			22.98		27.09	0.512	38M7D7D
		CP-OFDM	QPSK			21.70		25.81	0.381	38M6G7D
			16QAM			22.47		26.58	0.455	38M7D7D
						23.52		27.63	0.579	28M7G7D

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.I.R.P. Average (dB m)	E.I.R.P. Average (W)	Emission Designator
n41 FCC	20	DFTS-OFDM	BPSK	2 506.02	2 679.99	21.89	3.96	25.85	0.385	17M9G7D
			QPSK			21.83		25.79	0.379	17M9G7D
			16QAM			20.57		24.53	0.284	17M9D7D
		CP-OFDM	QPSK			20.68		24.64	0.291	18M2G7D
			16QAM			20.03		23.99	0.251	18M2D7D
			30			DFTS-OFDM		BPSK	2 511	2 674.98
	QPSK	22.25		26.21	0.418			26M9G7D		
	16QAM	21.22		25.18	0.330			26M9D7D		
	CP-OFDM	QPSK		20.84	24.80	0.302		27M9G7D		
		16QAM		20.36	24.32	0.270		27M9D7D		
		40		DFTS-OFDM	BPSK	2 516.01		2 670		
	QPSK		22.26		26.22				0.419	35M9G7D
	16QAM		20.94		24.90				0.309	35M8D7D
	CP-OFDM		QPSK	20.79	24.75				0.299	38M0G7D
			16QAM	20.48	24.44				0.278	38M0D7D
			50	DFTS-OFDM	BPSK				2 521.02	2 664.99
	QPSK	22.15			26.11	0.408		45M9G7D		
	16QAM	20.67			24.63	0.290		45M6D7D		
	CP-OFDM	QPSK		20.61	24.57	0.286		47M5G7D		
		16QAM		19.78	23.74	0.237		47M5D7D		
		60		DFTS-OFDM	BPSK	2 526		2 659.98		
	QPSK		21.97		25.93				0.392	58M0G7D
	16QAM		20.52		24.48				0.281	58M0D7D
	CP-OFDM		QPSK	20.67	24.63				0.290	58M0G7D
			16QAM	20.32	24.28				0.268	58M0D7D
			80	DFTS-OFDM	BPSK				2 536.02	2 649.99
	QPSK	22.23			26.19	0.416		77M1G7D		
	16QAM	20.64			24.60	0.288		77M1D7D		
	CP-OFDM	QPSK		20.76	24.72	0.296		77M8G7D		
		16QAM		19.84	23.80	0.240		77M6D7D		
		90		DFTS-OFDM	BPSK	2 541		2 644.98		
	QPSK		22.12		26.08				0.406	86M7G7D
	16QAM		20.81		24.77				0.300	86M7D7D
	CP-OFDM		QPSK	20.99	24.95				0.313	87M5G7D
			16QAM	20.24	24.20				0.263	87M8D7D
			100	DFTS-OFDM	BPSK				2 546.01	2 640
	QPSK	22.13			26.09	0.406		96M4G7D		
	16QAM	20.68			24.64	0.291		96M1D7D		
	CP-OFDM	QPSK		20.86	24.82	0.303		97M5G7D		
		16QAM		20.06	24.02	0.252		97M5D7D		

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.I.R.P. Average (dB m)	E.I.R.P. Average (W)	Emission Designator
n41 IC	20	DFTS-OFDM	BPSK	2 510.01	2 679.99	21.91	3.96	25.87	0.386	17M9G7D
			QPSK			21.82		25.78	0.378	17M9G7D
			16QAM			20.24		24.20	0.263	17M9D7D
		CP-OFDM	QPSK			20.19		24.15	0.260	18M3G7D
			16QAM			19.31		23.27	0.212	18M2D7D
						21.98		25.94	0.393	26M9G7D
	30	DFTS-OFDM	BPSK	2 515.02	2 674.98	21.86		25.82	0.382	26M7G7D
			QPSK			20.63		24.59	0.288	26M9D7D
			16QAM			20.41		24.37	0.274	27M9G7D
		CP-OFDM	QPSK			19.79		23.75	0.237	27M9D7D
			16QAM			21.95		25.91	0.390	35M7G7D
						21.94		25.90	0.389	35M9G7D
	40	DFTS-OFDM	BPSK	2 520	2 670	20.69		24.65	0.292	35M8D7D
			QPSK			20.51		24.47	0.280	37M9G7D
			16QAM			19.88		23.84	0.242	38M0D7D
		CP-OFDM	QPSK			21.62		25.58	0.361	45M7G7D
			16QAM			21.81		25.77	0.378	45M9G7D
						20.20		24.16	0.261	45M6D7D
	50	DFTS-OFDM	BPSK	2 525.01	2 664.99	20.46		24.42	0.277	47M5G7D
			QPSK			19.34		23.30	0.214	47M5D7D
			16QAM			21.65		25.61	0.364	58M2G7D
		CP-OFDM	QPSK			21.75		25.71	0.372	58M2G7D
			16QAM			20.28		24.24	0.265	58M0D7D
						20.08		24.04	0.254	58M0G7D
	60	DFTS-OFDM	BPSK	2 530.02	2 659.98	19.61		23.57	0.228	58M0D7D
			QPSK			21.70		25.66	0.368	77M3G7D
			16QAM			21.82		25.78	0.378	77M1G7D
		CP-OFDM	QPSK			20.45		24.41	0.276	77M1D7D
			16QAM			20.62		24.58	0.287	77M8G7D
						19.48		23.44	0.221	77M6D7D
	80	DFTS-OFDM	BPSK	2 540.01	2 649.99	21.75		25.71	0.372	86M7G7D
			QPSK			21.93		25.89	0.388	87M0G7D
			16QAM			20.41		24.37	0.274	87M0D7D
		CP-OFDM	QPSK			20.74		24.70	0.295	87M8G7D
			16QAM			19.58		23.54	0.226	87M3D7D
						21.89		25.85	0.385	96M4G7D
	90	DFTS-OFDM	BPSK	2 545.02	2 644.98	21.73		25.69	0.371	96M4G7D
			QPSK			19.88		23.84	0.242	96M4D7D
			16QAM			20.25		24.21	0.264	97M5G7D
		CP-OFDM	QPSK			19.65		23.61	0.230	97M5D7D
			16QAM			21.75		25.71	0.372	86M7G7D
						21.93		25.89	0.388	87M0G7D
	100	DFTS-OFDM	BPSK	2 550	2 640	20.41		24.37	0.274	87M0D7D
			QPSK			20.74		24.70	0.295	87M8G7D
			16QAM			19.58		23.54	0.226	87M3D7D
		CP-OFDM	QPSK			21.89		25.85	0.385	96M4G7D
			16QAM			21.73		25.69	0.371	96M4G7D
						19.88		23.84	0.242	96M4D7D
CP-OFDM	QPSK	20.25	24.21	0.264	97M5G7D					
	16QAM	19.65	23.61	0.230	97M5D7D					
		21.75	25.71	0.372	86M7G7D					
21.93	25.89	0.388	87M0G7D							

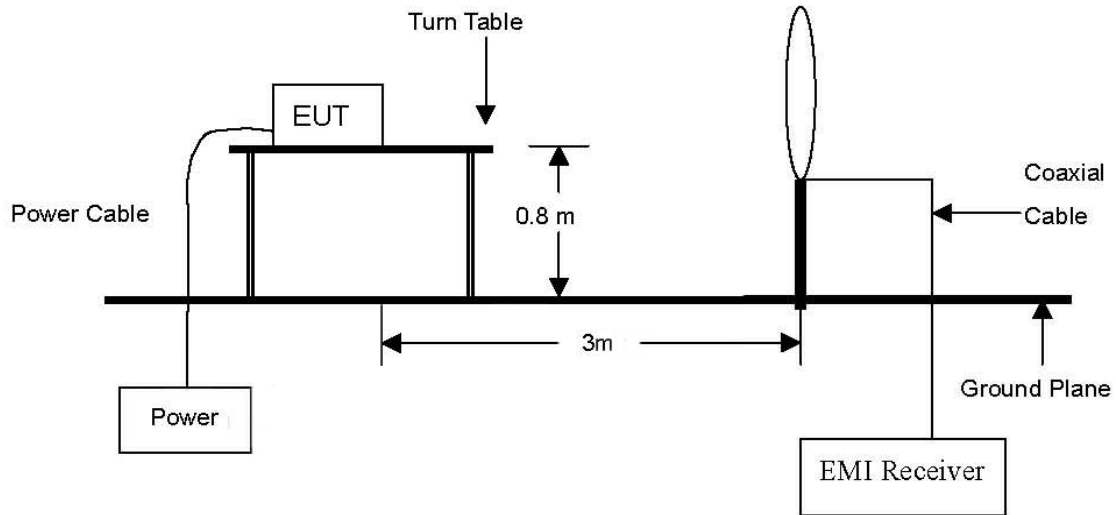
NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.I.R.P. Average (dB m)	E.I.R.P. Average (W)	Emission Designator
n66	5	DFTS-OFDM	BPSK	1 712.5	1 777.5	22.54	4.21	26.75	0.473	4M49G7D
			QPSK			22.47		26.68	0.466	4M49G7D
			16QAM			21.73		25.94	0.393	4M49D7D
		CP-OFDM	QPSK			21.76		25.97	0.395	4M52G7D
			16QAM			22.12		26.33	0.430	4M50D7D
			BPSK			22.57		26.78	0.476	8M92G7D
	10	DFTS-OFDM	QPSK	1 715	1 775	22.52		26.73	0.471	8M94G7D
			16QAM			21.98		26.19	0.416	8M94D7D
			BPSK			21.85		26.06	0.404	9M32G7D
		CP-OFDM	QPSK			21.89		26.10	0.407	9M26D7D
			16QAM			22.87		27.08	0.511	13M5G7D
			BPSK			22.84		27.05	0.507	13M6G7D
	15	DFTS-OFDM	QPSK	1 717.5	1 772.5	22.46		26.67	0.465	13M5D7D
			16QAM			21.38		25.59	0.362	14M2G7D
			BPSK			22.04		26.25	0.422	14M1D7D
		CP-OFDM	QPSK			22.37		26.58	0.455	17M9G7D
			16QAM			22.68		26.89	0.489	17M8G7D
			BPSK			21.89		26.10	0.407	17M9D7D
	20	DFTS-OFDM	QPSK	1 720	1 770	21.44		25.65	0.367	18M9G7D
			16QAM			21.94		26.15	0.412	18M9D7D
			BPSK			23.19		27.40	0.550	38M4G7D
		CP-OFDM	QPSK			23.13		27.34	0.542	38M7G7D
			16QAM			22.46		26.67	0.465	38M6D7D
			BPSK			21.07		25.28	0.337	38M6G7D
40	DFTS-OFDM	QPSK	1 730	1 760	22.01	26.22	0.419	38M6D7D		
		16QAM			22.01	26.22	0.419	38M6D7D		
		BPSK			22.01	26.22	0.419	38M6D7D		
	CP-OFDM	QPSK			22.01	26.22	0.419	38M6D7D		
		16QAM			22.01	26.22	0.419	38M6D7D		
		BPSK			22.01	26.22	0.419	38M6D7D		

NR Band	Band width (MHz)	Modulation		Low Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dB m)	Ant. Gain (dB i)	E.R.P. Average (dB m)	E.R.P. Average (W)	Emission Designator
n71	5	DFTS-OFDM	BPSK	665.5	695.5	23.16	4.43	25.44	0.350	4M49G7D
			QPSK			23.48		25.76	0.377	4M50G7D
			16QAM			22.53		24.81	0.303	4M49D7D
		CP-OFDM	QPSK			21.88		24.16	0.261	4M50G7D
			16QAM			22.04		24.32	0.270	4M50D7D
			BPSK			23.01		25.29	0.338	8M94G7D
	10	DFTS-OFDM	QPSK	668	693	22.98		25.26	0.336	8M97G7D
			16QAM			22.69		24.97	0.314	8M94D7D
			BPSK			21.79		24.07	0.255	9M29G7D
		CP-OFDM	QPSK			22.20		24.48	0.281	9M29D7D
			16QAM			23.03		25.31	0.340	13M5G7D
			BPSK			23.08		25.36	0.344	13M5G7D
	15	DFTS-OFDM	QPSK	670.5	690.5	22.76		25.04	0.319	13M5D7D
			16QAM			21.64		23.92	0.247	14M2G7D
			BPSK			22.09		24.37	0.274	14M2D7D
		CP-OFDM	QPSK			23.15		25.43	0.349	17M8G7D
			16QAM			23.11		25.39	0.346	17M9G7D
			BPSK			22.78		25.06	0.321	17M9D7D
	20	DFTS-OFDM	QPSK	673	688	21.77		24.05	0.254	18M9G7D
			16QAM			22.17		24.45	0.279	18M9D7D
			BPSK			22.17		24.45	0.279	18M9D7D
		CP-OFDM	QPSK			22.17		24.45	0.279	18M9D7D
			16QAM			22.17		24.45	0.279	18M9D7D
			BPSK			22.17		24.45	0.279	18M9D7D

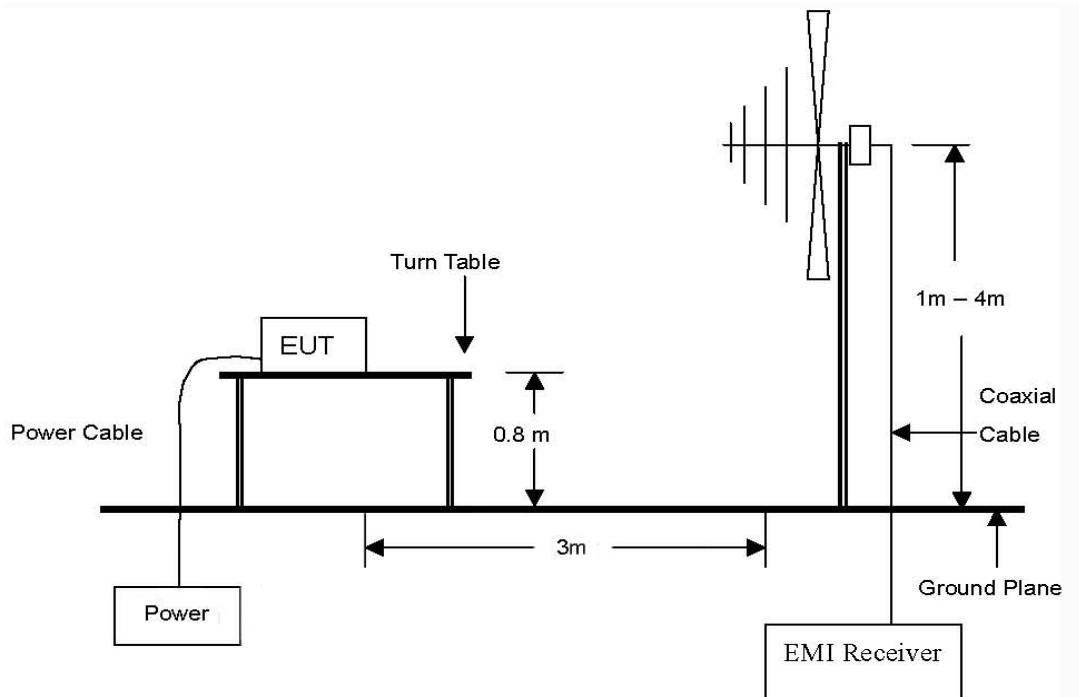
## 2. E.R.P. / E.I.R.P. & Spurious Radiated Emission

### 2.1. Test setup

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

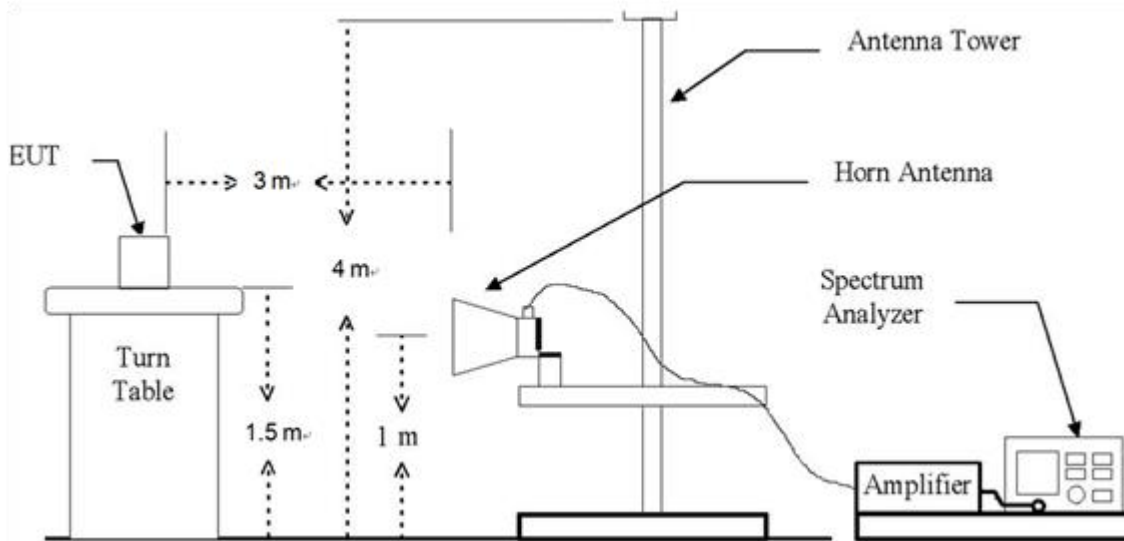


The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.





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.

#### 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(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.

#### 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-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 Spurious Radiated 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(h)(1), for operations in the 1 695-1 710 MHz, 1 710-1 755 MHz, 1 755-1 780 MHz, 1 915-1 920 MHz, 1 995-2 000 MHz, 2 000-2 020 MHz, 2 110-2 155 MHz, 2 155-2 180 MHz, and 2 180-2 200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10} (P)$  dB.

- §27.53(m)(4), for mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log_{10} (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log_{10} (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log_{10} (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that  $43 + 10 \log_{10} (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log_{10} (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

### 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.

- 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-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 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.

#### SIM 1

Band	Frequency (MHz)	Maximum Conducted Power (dB m)	Maximum Conducted Power (W)	Worst 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)	Output Power Limit
n2	1 850 ~ 1 915	23.28	0.213	5.38	28.66	0.735			2 W E.I.R.P.
n5	824 ~ 849	23.91	0.246	2.78	26.69	0.467	24.54	0.284	7 W E.R.P.
n25	1 850 ~ 1 915	23.51	0.224	5.38	28.89	0.774			2 W E.I.R.P.
n41 FCC	2 496 ~ 2 690	22.34	0.171	5.64	27.98	0.628			2 W E.I.R.P.
n41 IC	2 500 ~ 2 690	22.38	0.173	5.64	28.02	0.634			2 W E.I.R.P.
n66	1 710 ~ 1 755	22.73	0.187	5.07	27.80	0.603			1 W E.I.R.P.
n71	663 ~ 698	22.55	0.180	1.98	24.53	0.284	22.38	0.173	3 W E.R.P.

#### SIM 2

Band	Frequency (MHz)	Maximum Conducted Power (dB m)	Maximum Conducted Power (W)	Worst 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)	Output Power Limit
n25	1 850 ~ 1 915	23.69	0.234	4.11	27.80	0.603			2 W E.I.R.P.
n41 FCC	2 496 ~ 2 690	22.31	0.170	3.96	26.27	0.424			2 W E.I.R.P.
n41 IC	2 500 ~ 2 690	21.98	0.158	3.96	25.94	0.393			2 W E.I.R.P.
n66	1 710 ~ 1 755	23.19	0.208	4.21	27.40	0.550			1 W E.I.R.P.
n71	663 ~ 698	23.48	0.223	4.43	27.91	0.618	25.76	0.377	3 W E.R.P.

#### Remark;

1. E.I.R.P. (dB m) = Maximum Conducted Power (dB m) + Antenna Gain (dB i)
2. E.R.P. (dB m) = E.I.R.P. (dB m) - 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.

### 2.4.1. Spurious Radiated Emission

#### SIM 1

##### NR Band 25 (40 MHz - DFTS-OFDM BPSK)\_Ant. 1

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (1 882.5 MHz)									
3 805.24	44.26	H	32.19	-32.94	43.51	-95.26	-51.75	-13	38.75
3 804.93	45.42	V	32.19	-32.95	44.66	-95.26	<b>-50.60</b>	-13	37.60
Above 3 900.00	Not detected	-	-	-	-	-	-	-	-

##### NR Band 25 (40 MHz - DFTS-OFDM BPSK)\_Ant. 2

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (1 882.5 MHz)									
3 803.25	48.12	H	32.19	-32.96	47.35	-95.26	<b>-47.91</b>	-13	34.91
3 803.20	48.71	V	32.19	-32.96	47.94	-95.26	-47.32	-13	34.32
Above 3 900.00	Not detected	-	-	-	-	-	-	-	-



**NR Band 41 (30 MHz - DFTS-OFDM BPSK)\_FCC\_Ant. 1**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 511.00 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 592.99 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 674.98 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

**NR Band 41 (40 MHz - DFTS-OFDM BPSK)\_IC\_Ant. 1**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 520.00 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 595.00 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 670.00 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

**NR Band 41 (30 MHz - DFTS-OFDM BPSK)\_FCC\_Ant. 2**

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 (2 511.00 MHz)									
4 994.93	45.46	V	33.30	-30.12	48.64	-95.26	-46.62	-25	21.62
Above 5 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 592.99 MHz)									
5 158.87	55.54	V	33.52	-30.94	58.12	-95.26	<b>-37.14</b>	-25	12.14
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 674.98 MHz)									
5 322.68	46.49	V	33.99	-30.82	49.66	-95.26	-45.60	-25	20.60
Above 5 400.00	Not detected	-	-	-	-	-	-	-	-

**NR Band 41 (40 MHz - DFTS-OFDM BPSK)\_IC\_Ant. 2**

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 (2 520.00 MHz)									
5 002.91	48.97	V	33.30	-31.11	51.16	-95.26	-44.10	-25	19.10
Above 5 100.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 595.00 MHz)									
5 152.78	53.78	V	33.51	-31.02	56.27	-95.26	<b>-38.99</b>	-25	13.99
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 670.00 MHz)									
5 302.91	52.32	V	33.91	-30.60	55.63	-95.26	-39.63	-25	14.63
Above 5 400.00	Not detected	-	-	-	-	-	-	-	-

**NR band 66 (40 MHz - DFTS-OFDM BPSK)\_Ant. 1**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (1 745.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

**NR band 66 (40 MHz - DFTS-OFDM BPSK)\_Ant. 3**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (1 745.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

**NR band 71 (20 MHz - DFTS-OFDM BPSK)\_Ant. 1**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (673.0 MHz)									
1 375.00	56.02	H	25.20	-39.43	41.79	-97.41	-55.62	-13	42.62
1 375.04	52.11	V	25.20	-39.43	37.88	-97.41	-59.53	-13	46.53
1 624.95	51.55	H	25.70	-39.00	38.25	-97.41	-59.16	-13	46.16
4 039.33	47.18	H	32.12	-31.59	47.71	-97.41	-49.70	-13	36.70
4 039.46	47.00	V	32.12	-31.59	47.53	-97.41	-49.88	-13	36.88
Above 4 100.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (680.5 MHz)									
1 375.03	55.39	H	25.20	-39.43	41.16	-97.41	-56.25	-13	43.25
1 375.08	51.95	V	25.20	-39.43	37.72	-97.41	-59.69	-13	46.69
1 624.90	51.28	H	25.70	-39.00	37.98	-97.41	-59.43	-13	46.43
4 083.84	50.35	H	32.10	-32.69	49.76	-97.41	<b>-47.65</b>	-13	34.65
4 083.93	49.33	V	32.10	-32.69	48.74	-97.41	-48.67	-13	35.67
Above 4 100.00	Not detected	-	-	-	-	-	-	-	-
High Channel (688.0 MHz)									
1 375.33	55.73	H	25.20	-39.43	41.50	-97.41	-55.91	-13	42.91
1 374.88	53.18	V	25.20	-39.58	38.80	-97.41	-58.61	-13	45.61
1 625.00	51.43	H	25.70	-39.00	38.13	-97.41	-59.28	-13	46.28
4 129.33	47.35	H	32.16	-32.79	46.72	-97.41	-50.69	-13	37.69
4 129.51	45.68	V	32.16	-32.79	45.05	-97.41	-52.36	-13	39.36
Above 4 200.00	Not detected	-	-	-	-	-	-	-	-

**NR band 71 (20 MHz - DFTS-OFDM BPSK)\_Ant. 3**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (673.0 MHz)									
1 346.09	65.81	H	25.09	-39.96	50.94	-97.41	-46.47	-13	33.47
1 375.21	50.88	H	25.20	-39.43	36.65	-97.41	-60.76	-13	47.76
1 375.12	50.17	V	25.20	-39.43	35.94	-97.41	-61.47	-13	48.47
1 624.98	47.44	H	25.70	-39.00	34.14	-97.41	-63.27	-13	50.27
4 038.40	50.35	H	32.12	-31.61	50.86	-97.41	-46.55	-13	33.55
4 038.34	53.28	V	32.12	-31.61	53.79	-97.41	<b>-43.62</b>	-13	30.62
Above 4 100.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (680.5 MHz)									
1 361.14	61.91	H	25.14	-39.73	47.32	-97.41	-50.09	-13	37.09
1 375.02	50.74	H	25.20	-39.43	36.51	-97.41	-60.90	-13	47.90
1 374.80	50.07	V	25.20	-39.58	35.69	-97.41	-61.72	-13	48.72
1 625.05	47.53	H	25.70	-38.99	34.24	-97.41	-63.17	-13	50.17
4 083.46	52.80	H	32.10	-32.68	52.22	-97.41	-45.19	-13	32.19
4 083.50	52.13	V	32.10	-32.69	51.54	-97.41	-45.87	-13	32.87
Above 4 100.00	Not detected	-	-	-	-	-	-	-	-
High Channel (688.0 MHz)									
1 375.15	50.96	H	25.20	-39.43	36.73	-97.41	-60.68	-13	47.68
1 375.16	50.38	V	25.20	-39.43	36.15	-97.41	-61.26	-13	48.26
1 376.16	56.99	H	25.20	-39.44	42.75	-97.41	-54.66	-13	41.66
1 625.33	47.39	H	25.70	-38.99	34.10	-97.41	-63.31	-13	50.31
4 128.43	52.74	H	32.16	-32.78	52.12	-97.41	-45.29	-13	32.29
4 128.82	48.22	V	32.16	-32.78	47.60	-97.41	-49.81	-13	36.81
Above 4 200.00	Not detected	-	-	-	-	-	-	-	-

**ENDC**

**13A-n2A (20 MHz - DFTS-OFDM BPSK) Ant. 1**

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 (1 860.0 MHz)									
3 738.55	46.05	H	32.25	-33.75	44.55	-95.26	-50.71	-13	37.71
3 738.84	46.11	V	32.26	-33.75	44.62	-95.26	-50.64	-13	37.64
Above 3 800.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 880.0 MHz)									
3 778.48	49.87	H	32.24	-33.16	48.95	-95.26	-46.31	-13	33.31
3 778.63	50.29	V	32.24	-33.16	49.37	-95.26	-45.89	-13	32.89
Above 3 800.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 900.0 MHz)									
3 818.58	49.58	H	32.16	-32.83	48.91	-95.26	-46.35	-13	33.35
3 818.49	51.10	V	32.16	-32.83	50.43	-95.26	<b>-44.83</b>	-13	31.83
Above 3 900.00	Not detected	-	-	-	-	-	-	-	-

**13A-n2A (20 MHz - DFTS-OFDM BPSK) Ant. 2**

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 (1 860.0 MHz)									
3 738.52	47.43	H	32.25	-33.75	45.93	-95.26	-49.33	-13	36.33
3 738.55	46.07	V	32.25	-33.75	44.57	-95.26	-50.69	-13	37.69
Above 3 800.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (1 880.0 MHz)									
3 778.36	50.14	H	32.24	-33.16	49.22	-95.26	-46.04	-13	33.04
3 778.45	50.59	V	32.24	-33.16	49.67	-95.26	-45.59	-13	32.59
Above 3 800.00	Not detected	-	-	-	-	-	-	-	-
High Channel (1 900.0 MHz)									
3 818.50	50.95	H	32.16	-32.83	50.28	-95.26	<b>-44.98</b>	-13	31.98
3 818.64	49.04	V	32.16	-32.83	48.37	-95.26	-46.89	-13	33.89
Above 3 900.00	Not detected	-	-	-	-	-	-	-	-

**2A-n5A (15 MHz - DFTS-OFDM BPSK) Ant. 1**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (831.5 MHz)									
1 375.13	50.60	H	25.20	-39.43	36.37	-97.41	-61.04	-13	48.04
1 375.16	52.81	V	25.20	-39.43	38.58	-97.41	-58.83	-13	45.83
1 625.14	50.14	H	25.70	-38.99	36.85	-97.41	-60.56	-13	47.56
1 960.53	56.53	H	27.52	-37.85	46.20	-97.41	-51.21	-13	38.21
1 960.27	59.43	V	27.52	-37.85	49.10	-97.41	-48.31	-13	35.31
4 191.47	50.47	H	32.12	-31.92	50.67	-97.41	-46.74	-13	33.74
4 191.55	48.14	V	32.12	-31.92	48.34	-97.41	-49.07	-13	36.07
Above 4 200.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (836.5 MHz)									
1 374.97	50.63	H	25.20	-39.58	36.25	-97.41	-61.16	-13	48.16
1 375.11	52.15	V	25.20	-39.43	37.92	-97.41	-59.49	-13	46.49
1 624.98	50.66	H	25.70	-39.00	37.36	-97.41	-60.05	-13	47.05
1 960.99	56.56	H	27.52	-37.85	46.23	-97.41	-51.18	-13	38.18
1 960.33	59.55	V	27.52	-37.85	49.22	-97.41	-48.19	-13	35.19
4 216.86	48.78	H	32.10	-32.05	48.83	-97.41	-48.58	-13	35.58
4 216.58	48.11	V	32.10	-32.05	48.16	-97.41	-49.25	-13	36.25
Above 4 300.00	Not detected	-	-	-	-	-	-	-	-
High Channel (841.5 MHz)									
1 375.03	50.76	H	25.20	-39.43	36.53	-97.41	-60.88	-13	47.88
1 375.09	52.46	V	25.20	-39.43	38.23	-97.41	-59.18	-13	46.18
1 625.06	50.79	H	25.70	-38.99	37.50	-97.41	-59.91	-13	46.91
1 958.44	56.71	H	27.52	-37.85	46.38	-97.41	-51.03	-13	38.03
1 959.21	59.69	V	27.52	-37.85	49.36	-97.41	-48.05	-13	35.05
4 241.42	56.32	H	32.10	-32.12	56.30	-97.41	<b>-41.11</b>	-13	28.11
4 241.62	55.38	V	32.10	-32.12	55.36	-97.41	-42.05	-13	29.05
Above 4 300.00	Not detected	-	-	-	-	-	-	-	-

**12A-n25A (25 MHz - DFTS-OFDM BPSK)\_Ant. 1**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (1 882.5 MHz)									
3 788.33	49.18	H	32.22	-33.01	48.39	-95.26	-46.87	-13	33.87
3 788.54	49.63	V	32.22	-33.00	48.85	-95.26	<b>-46.41</b>	-13	33.41
Above 3 800.00	Not detected	-	-	-	-	-	-	-	-

**NR Band 25 (40 MHz - DFTS-OFDM BPSK)\_Ant. 2**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (1 882.5 MHz)									
3 788.44	51.47	H	32.22	-33.01	50.68	-95.26	<b>-44.58</b>	-13	31.58
3 788.26	50.13	V	32.22	-33.01	49.34	-95.26	-45.92	-13	32.92
Above 3 800.00	Not detected	-	-	-	-	-	-	-	-



**5A-n41A (40 MHz - DFTS-OFDM BPSK)\_FCC\_Ant. 1**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 516.01 MHz)									
4 994.92	44.32	V	33.30	-30.12	47.50	-95.26	-47.76	-25	22.76
Above 5 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 592.99 MHz)									
5 148.63	49.24	V	33.50	-30.95	51.79	-95.26	-43.47	-25	18.47
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 670.00 MHz)									
5 302.74	51.01	V	33.91	-30.60	54.32	-95.26	<b>-40.94</b>	-25	15.94
Above 5 400.00	Not detected	-	-	-	-	-	-	-	-

**5A-n41A (40 MHz - DFTS-OFDM BPSK)\_IC\_Ant. 1**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 520.00 MHz)									
5 002.61	46.03	V	33.30	-31.10	48.23	-95.26	-47.03	-25	22.03
Above 5 100.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 595.00 MHz)									
5 153.19	50.62	V	33.51	-31.02	53.11	-95.26	-42.15	-25	17.15
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 670.00 MHz)									
5 302.74	51.01	V	33.91	-30.60	54.32	-95.26	<b>-40.94</b>	-25	15.94
Above 5 400.00	Not detected	-	-	-	-	-	-	-	-

**5A-n41A (40 MHz - DFTS-OFDM BPSK)\_ FCC\_Ant. 2**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 516.01 MHz)									
4 994.80	43.50	H	33.30	-30.12	46.68	-95.26	-48.58	-25	23.58
4 994.84	50.54	V	33.30	-30.12	53.72	-95.26	-41.54	-25	16.54
Above 5 000.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 592.99 MHz)									
5 148.67	44.48	H	33.50	-30.95	47.03	-95.26	-48.23	-25	23.23
5 148.75	44.52	V	33.50	-30.95	47.07	-95.26	-48.19	-25	23.19
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 670.00 MHz)									
5 302.94	48.93	H	33.91	-30.60	52.24	-95.26	-43.02	-25	18.02
5 302.84	55.10	V	33.91	-30.60	58.41	-95.26	<b>-36.85</b>	-25	11.85
Above 5 400.00	Not detected	-	-	-	-	-	-	-	-

**5A-n41A (40 MHz - DFTS-OFDM BPSK)\_ IC\_Ant. 2**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Low Channel (2 520.00 MHz)									
5 002.98	45.53	H	33.30	-31.11	47.72	-95.26	-47.54	-25	22.54
5 003.21	49.94	V	33.30	-31.11	52.13	-95.26	-43.13	-25	18.13
Above 5 100.00	Not detected	-	-	-	-	-	-	-	-
Middle Channel (2 595.00 MHz)									
5 152.90	43.19	H	33.51	-31.02	45.68	-95.26	-49.58	-25	24.58
5 152.61	46.08	V	33.51	-31.03	48.56	-95.26	-46.70	-25	21.70
Above 5 200.00	Not detected	-	-	-	-	-	-	-	-
High Channel (2 670.00 MHz)									
5 302.94	48.93	H	33.91	-30.60	52.24	-95.26	-43.02	-25	18.02
5 302.84	55.10	V	33.91	-30.60	58.41	-95.26	<b>-36.85</b>	-25	11.85
Above 5 400.00	Not detected	-	-	-	-	-	-	-	-

**5A-n66A (40 MHz - DFTS-OFDM BPSK) \_Ant. 1**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (1 745.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

**5A-n66A (40 MHz - DFTS-OFDM BPSK) \_Ant. 3**

Frequency (MHz)	Measured Level (dB $\mu$ V)	Ant. Pol.	AF (dB/m)	AMP+CL (dB)	E (dB $\mu$ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
Middle Channel (1 745.0 MHz)									
Below 1 000.00	Not detected	-	-	-	-	-	-	-	-
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-