



# FCC RF Test Report

**APPLICANT** : Sonim Technologies, Inc.  
**EQUIPMENT** : Smart phone  
**BRAND NAME** : Sonim  
**MODEL NAME** : XP9900 (P14001)  
**FCC ID** : WYPP14010  
**STANDARD** : 47 CFR Part 2, 22, 24, 27  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)  
**TEST DATE(S)** : Aug. 15, 2023 ~ Oct. 18, 2023

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG371405A	Rev. 01	Initial issue of report	Nov. 02, 2023



## SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (5G NR n5)	ERP < 7 Watt		
	§27.50(c)(10)	Effective Radiated Power (5G NR n71)	ERP < 3 Watt		
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n2, n25) (5G NR n41)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n66)	EIRP < 1Watt		
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §24.238(a) §27.53(h)	Conducted Band Edge Measurement (5G NR n2, n25) (5G NR n66)	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n41)	§27.53(m)(4)		
3.8	§2.1051 §24.238(a) §27.53(h)	Conducted Spurious Emission (5G NR n2, n25) (5G NR n66)	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n41)	< 55+10log <sub>10</sub> (P[Watts])		
3.9	§24.235 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §24.238(a) §27.53(h)	Radiated Spurious Emission (5G NR n2, n25) (5G NR n66)	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 26.46 dB at 7640.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n41)	< 55+10log <sub>10</sub> (P[Watts])		

**Note:**

This is a variant report, the change note could be referred to the XP9900\_ Class II Permissive Change letter which is exhibit separately. According to the change, only the related test cases of power and RSE from original test report (Report Number I22Z60589-WMD03) were verified for the differences.

**Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 1 General Description

## 1.1 Applicant

Sonim Technologies, Inc.  
4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA

## 1.2 Manufacturer

Sonim Technologies, Inc.  
4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart phone
Brand Name	Sonim
Model Name	XP9900 (P14001)
FCC ID	WYPP14010
IMEI Code	Conducted : 016188000785233 Radiation : 016188000788997
HW Version	V1.0
SW Version	10.0.0-01-12.0.0-10.60.10
EUT Stage	Identical Prototype

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz
Rx Frequency	5G NR n2 : 1930 MHz ~ 1990 MHz 5G NR n5 : 869 MHz ~ 894 MHz 5G NR n25 : 1930 MHz ~ 1995 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 2110 MHz~ 2200 MHz 5G NR n71: 617 MHz ~ 652 MHz
Bandwidth	<b>SA:</b> n2, n5, n25, n66, n71: 5MHz / 10MHz / 15MHz / 20MHz n41 : 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz n66: 5MHz / 10MHz / 15MHz / 20MHz <b>NSA:</b> n2, n5, n25, n66, n71: 5MHz / 10MHz / 15MHz / 20MHz n41 : 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz n66: 5MHz / 10MHz / 15MHz / 20MHz / 30MHz / 40MHz



SCS	15kHz for n2/n5/25/n66/n71 30kHz for n41
Antenna Gain	<p><b>&lt;Ant. 1&gt;:</b> n2: 0.06 dBi n5: -0.40 dBi n25: 0.06 dBi n66: 0.15 dBi n71: -0.23 dBi</p> <p><b>&lt;Ant. 2&gt;:</b> n41: 0.09 dBi</p> <p><b>&lt;Ant. 4&gt;:</b> n2: 0.06 dBi n5: -4.42 dBi n25: 0.06 dBi n66: -1.06 dBi n71: -7.22 dBi</p> <p><b>&lt;Ant. 6&gt;:</b> n2: -1.67 dBi n25: -1.67 dBi n66: -1.34 dBi</p> <p><b>&lt;Ant. 7&gt;:</b> n2: -10.42 dBi n25: -10.42 dBi n66: -7.33 dBi</p>
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

**Remark:**

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP are shown in the report, 5G NR n41 for Ant. 2 and n2/n5/n25/n66/n71 for Ant. 1 and EN DC\_66A\_n2A for for Ant. 6.
2. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.
3. The device supports two PAs for 5G NR n2 (main PA for SA mode and other PA for NSA mode), the maximum power of main PA is higher than the other PA for n2, therefore, we chose higher power PA to calculate the EIRP and show in the report.

### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.



### 1.6 Maximum ERP/EIRP and Emission Designator

5G NR n2		PI/2 BPSK	QPSK	16QAM / 64QAM / 256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)
20	1860.0 ~ 1900.0	0.2173	0.2163	0.1679

5G NR n5		PI/2 BPSK	QPSK	16QAM / 64QAM / 256QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)	Maximum ERP(W)
20	834.0 ~ 839.0	0.1327	0.1318	0.1052

5G NR n25		PI/2 BPSK	QPSK	16QAM / 64QAM / 256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)
20	1860.0 ~ 1905.0	0.2183	0.2104	0.1710

5G NR n66		PI/2 BPSK	QPSK	16QAM / 64QAM / 256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)
20	1720.0 ~ 1770.0	0.2234	0.2178	0.1782

5G NR n41 – SCS 30k		PI/2 BPSK	QPSK	16QAM / 64QAM / 256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)	Maximum EIRP(W)
100	2546.01 ~ 2640.00	0.4508	0.4406	0.3606

5G NR n71		PI/2 BPSK	QPSK	16QAM / 64QAM / 256QAM
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Maximum ERP(W)	Maximum ERP(W)
20	673.0 ~ 688.0	0.1151	0.1148	0.0973

**Note:**

1. 5G NR n25 overlaps the entire frequency range of 5G NR n2. Therefore, the test results provided in this report covers 5G NR n25 as well as 5G NR n2.
2. All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.



### 1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH03-KS TH01-KS	CN1257	314309

### 1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH03-KS	AUDIX	E3	210616

### 1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 22, 24, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:**

All test items were verified and recorded according to the standards and without any deviation during the test.






## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

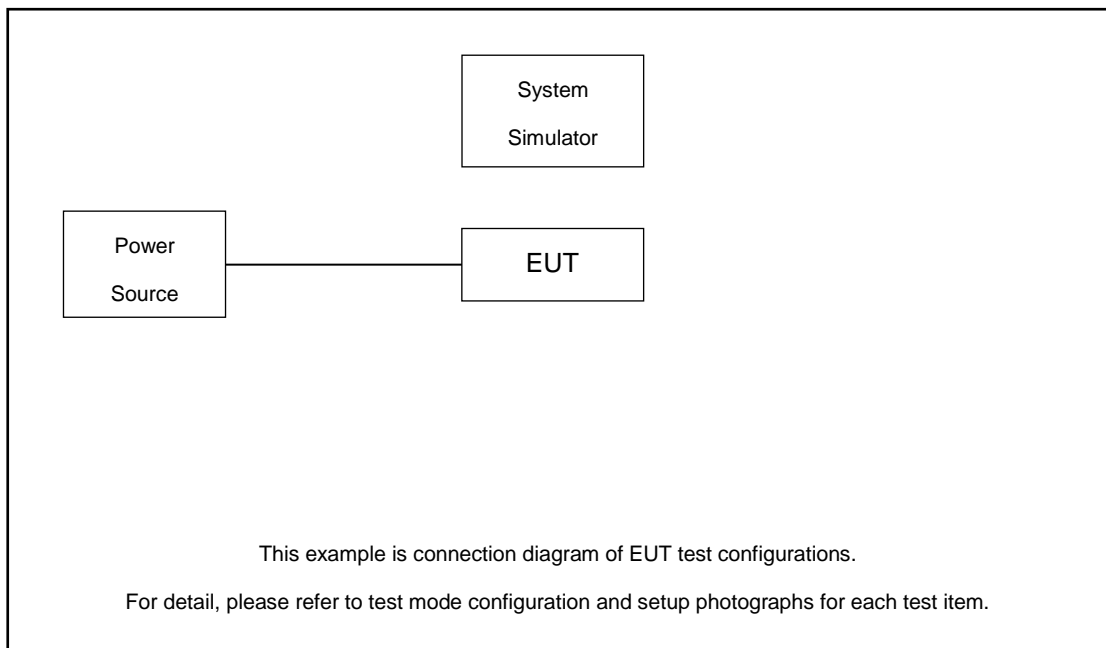
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Max. Output Power	n2	v	v	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	v	v
	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
	n66	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



Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
E.R.P / E.I.R.P	n2	v	v	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	v	v
	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	v	v	v	v	v
	n71	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n2	Worst Case																				v		
	n5	Worst Case																				v		
	n25	Worst Case																				v		
	n41	Worst Case																				v		
	n66	Worst Case																				v		
	n71	Worst Case																				v		
Note	<ol style="list-style-type: none"> <li>The mark "v" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.</li> <li>Frequency Stability : Normal Voltage = 3.9V ; Low Voltage =3.60V. ; High Voltage =4.45V</li> </ol>																							

## 2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission



characteristics in a typical application.

### 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

### 2.4 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

Following shows an offset computation example with cable loss 5.4 dB and 20dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 5.4 + 20 = 25.4 \text{ (dB)} \end{aligned}$$



### 2.5 Frequency List of Low/Middle/High Channels

5G NR n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

5G NR n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5

5G NR n25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376500	381000
	Frequency	1860	1882.5	1905
15	Channel	371500	376500	381500
	Frequency	1857.5	1882.5	1907.5
10	Channel	371000	376500	382000
	Frequency	1855	1882.5	1910
5	Channel	370500	376500	382500
	Frequency	1852.5	1882.5	1912.5



5G NR n41 Channel and Frequency List for SCS 30k				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99

5G NR n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5



5G NR n71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	134600	136100	137600
	Frequency	673	680.5	688
15	Channel	134100	136100	138100
	Frequency	670.5	680.5	690.5
10	Channel	133600	136100	138600
	Frequency	668	680.5	693
5	Channel	133100	136100	139100
	Frequency	665.5	680.5	695.5

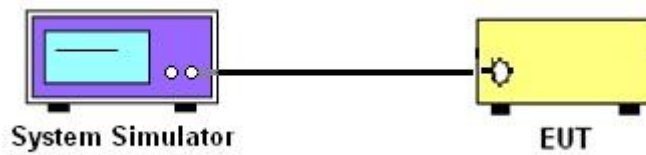
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.2 Test Setup

##### 3.2.1 Conducted Output Power



#### 3.3 Test Result of Conducted Test

Please refer to Appendix A.



### 3.4 Conducted Output Power and ERP/EIRP

#### 3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for 5G NR n5.

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n71.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2, n25, n41.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

#### 3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.



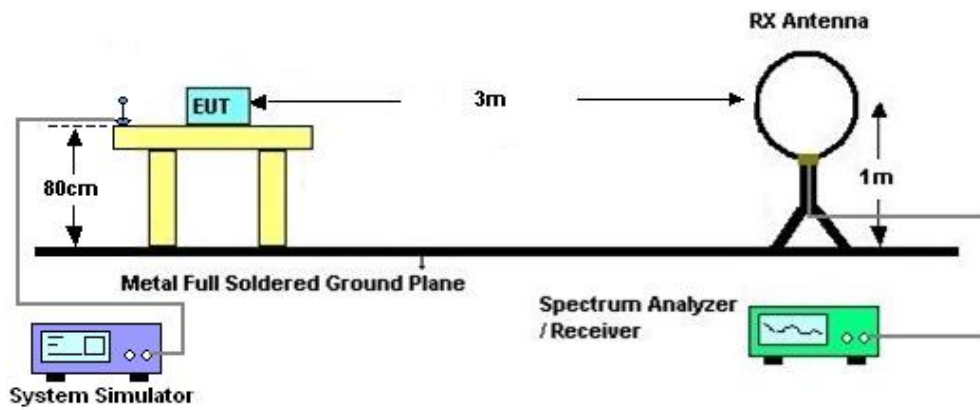
## 4 Radiated Test Items

### 4.1 Measuring Instruments

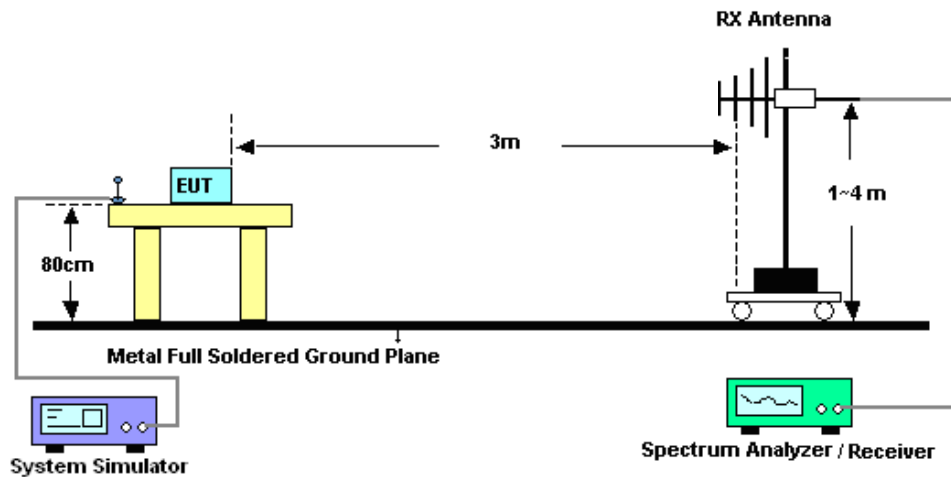
See list of measuring instruments of this test report.

### 4.2 Test Setup

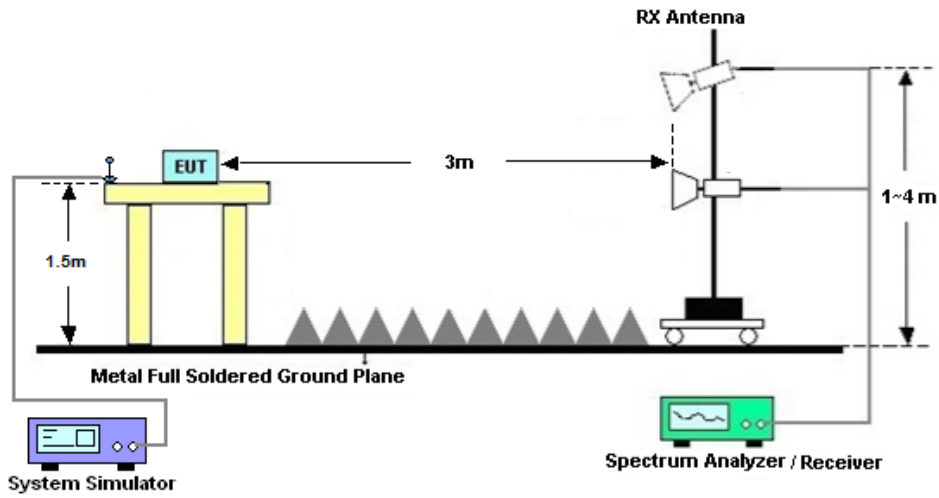
#### 4.2.1 For radiated test below 30MHz



#### 4.2.2 For radiated test from 30MHz to 1GHz



#### 4.2.3 For radiated test above 1GHz



#### 4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.



## 4.4 Radiated Spurious Emission

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For 5G NR n41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10.  $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11.  $ERP (dBm) = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)] (dB)$   
 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$   
 $= -13dBm.$

13. For 5G NR n41:

The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)



## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44GHz	May 15, 2023	Aug. 15, 2023~ Oct. 18, 2023	May 14, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Aug. 15, 2023~ Oct. 18, 2023	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Aug. 15, 2023~ Oct. 18, 2023	Jul. 05, 2024	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44GHz	May 15, 2023	Aug. 29, 2023~ Aug. 31, 2023	May 14, 2024	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Aug. 29, 2023~ Aug. 31, 2023	Oct. 15, 2023	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz-1GHz	Dec. 23, 2022	Aug. 29, 2023~ Aug. 31, 2023	Dec. 22, 2023	Radiation (03CH03-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 15, 2022	Aug. 29, 2023~ Aug. 31, 2023	Nov. 14, 2023	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101116	18GHz~40GHz	Oct. 17, 2022	Aug. 29, 2023~ Aug. 31, 2023	Oct. 16, 2023	Radiation (03CH03-KS)
Amplifier	SONOMA	310N	413740	30MHz ~1000MHz	Jan. 05, 2023	Aug. 29, 2023~ Aug. 31, 2023	Jan. 04, 2024	Radiation (03CH03-KS)
Amplifier	EM	EM18G40G A	060851	18~40GHz	Jan. 05, 2023	Aug. 29, 2023~ Aug. 31, 2023	Jan. 04, 2024	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2082394	1Ghz-18Ghz	Jan. 05, 2023	Aug. 29, 2023~ Aug. 31, 2023	Jan. 04, 2024	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 29, 2023~ Aug. 31, 2023	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 29, 2023~ Aug. 31, 2023	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 29, 2023~ Aug. 31, 2023	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required



## 6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.76dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.65dB
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.57dB
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## Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23°C
		Relative Humidity :	40~42%

# FR1 N2 (ANT1)

## Transmitter Conducted Output Power And EIRP, $(G_T-L_C)=0.06\text{dB}$

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
2	15	20	372000	1860	DFT-s-OFDM PI/2 BPSK	50@25	22.99	23.05	0.2018
2	15	20	372000	1860	DFT-s-OFDM PI/2 BPSK	1@1	23.31	23.37	0.2173
2	15	20	372000	1860	DFT-s-OFDM PI/2 BPSK	1@104	22.77	22.83	0.1919
2	15	20	372000	1860	DFT-s-OFDM QPSK	50@25	23	23.06	0.2023
2	15	20	372000	1860	DFT-s-OFDM QPSK	1@1	23.29	23.35	0.2163
2	15	20	372000	1860	DFT-s-OFDM QPSK	1@104	23.03	23.09	0.2037
2	15	20	372000	1860	DFT-s-OFDM 16 QAM	50@25	21.94	22	0.1585
2	15	20	372000	1860	DFT-s-OFDM 16 QAM	1@1	22.06	22.12	0.1629
2	15	20	372000	1860	DFT-s-OFDM 16 QAM	1@104	21.97	22.03	0.1596
2	15	20	372000	1860	DFT-s-OFDM 64 QAM	50@25	20.51	20.57	0.1140
2	15	20	372000	1860	DFT-s-OFDM 64 QAM	1@1	20.53	20.59	0.1146
2	15	20	372000	1860	DFT-s-OFDM 64 QAM	1@104	20.47	20.53	0.1130
2	15	20	372000	1860	DFT-s-OFDM 256 QAM	50@25	18.41	18.47	0.0703
2	15	20	372000	1860	DFT-s-OFDM 256 QAM	1@1	18.12	18.18	0.0658
2	15	20	372000	1860	DFT-s-OFDM 256 QAM	1@104	18.11	18.17	0.0656
2	15	20	372000	1860	CP-OFDM QPSK	53@26	21.47	21.53	0.1422
2	15	20	372000	1860	CP-OFDM QPSK	1@1	21.41	21.47	0.1403
2	15	20	372000	1860	CP-OFDM QPSK	1@104	20.98	21.04	0.1271
2	15	20	376000	1880	DFT-s-OFDM PI/2 BPSK	50@25	22.68	22.74	0.1879
2	15	20	376000	1880	DFT-s-OFDM PI/2 BPSK	1@1	22.74	22.8	0.1905
2	15	20	376000	1880	DFT-s-OFDM PI/2 BPSK	1@104	22.72	22.78	0.1897
2	15	20	376000	1880	DFT-s-OFDM QPSK	50@25	22.69	22.75	0.1884
2	15	20	376000	1880	DFT-s-OFDM QPSK	1@1	22.98	23.04	0.2014
2	15	20	376000	1880	DFT-s-OFDM QPSK	1@104	22.91	22.97	0.1982
2	15	20	376000	1880	DFT-s-OFDM 16 QAM	50@25	21.66	21.72	0.1486
2	15	20	376000	1880	DFT-s-OFDM 16 QAM	1@1	21.93	21.99	0.1581
2	15	20	376000	1880	DFT-s-OFDM 16 QAM	1@104	21.9	21.96	0.1570
2	15	20	376000	1880	DFT-s-OFDM 64 QAM	50@25	20.26	20.32	0.1076
2	15	20	376000	1880	DFT-s-OFDM 64 QAM	1@1	20.48	20.54	0.1132
2	15	20	376000	1880	DFT-s-OFDM 64 QAM	1@104	20.44	20.5	0.1122
2	15	20	376000	1880	DFT-s-OFDM 256 QAM	50@25	18.2	18.26	0.0670
2	15	20	376000	1880	DFT-s-OFDM 256 QAM	1@1	18	18.06	0.0640
2	15	20	376000	1880	DFT-s-OFDM 256 QAM	1@104	18	18.06	0.0640
2	15	20	376000	1880	CP-OFDM QPSK	53@26	21.18	21.24	0.1330
2	15	20	376000	1880	CP-OFDM QPSK	1@1	21.21	21.27	0.1340
2	15	20	376000	1880	CP-OFDM QPSK	1@104	21.16	21.22	0.1324
2	15	20	380000	1900	DFT-s-OFDM PI/2 BPSK	50@25	23.06	23.12	0.2051
2	15	20	380000	1900	DFT-s-OFDM PI/2 BPSK	1@1	22.74	22.8	0.1905
2	15	20	380000	1900	DFT-s-OFDM PI/2 BPSK	1@104	22.96	23.02	0.2004

2	15	20	380000	1900	DFT-s-OFDM QPSK	50@25	23.04	23.1	0.2042
2	15	20	380000	1900	DFT-s-OFDM QPSK	1@1	22.95	23.01	0.2000
2	15	20	380000	1900	DFT-s-OFDM QPSK	1@104	23.06	23.12	0.2051
2	15	20	380000	1900	DFT-s-OFDM 16 QAM	50@25	22.04	22.1	0.1622
2	15	20	380000	1900	DFT-s-OFDM 16 QAM	1@1	21.91	21.97	0.1574
2	15	20	380000	1900	DFT-s-OFDM 16 QAM	1@104	22.19	22.25	0.1679
2	15	20	380000	1900	DFT-s-OFDM 64 QAM	50@25	20.56	20.62	0.1153
2	15	20	380000	1900	DFT-s-OFDM 64 QAM	1@1	20.39	20.45	0.1109
2	15	20	380000	1900	DFT-s-OFDM 64 QAM	1@104	20.64	20.7	0.1175
2	15	20	380000	1900	DFT-s-OFDM 256 QAM	50@25	18.53	18.59	0.0723
2	15	20	380000	1900	DFT-s-OFDM 256 QAM	1@1	18.01	18.07	0.0641
2	15	20	380000	1900	DFT-s-OFDM 256 QAM	1@104	18.27	18.33	0.0681
2	15	20	380000	1900	CP-OFDM QPSK	53@26	21.6	21.66	0.1466
2	15	20	380000	1900	CP-OFDM QPSK	1@1	21.38	21.44	0.1393
2	15	20	380000	1900	CP-OFDM QPSK	1@104	21.64	21.7	0.1479
2	15	5	370500	1852.5	DFT-s-OFDM PI/2 BPSK	1@1	23.07	23.13	0.2056
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@1	23.26	23.32	0.2148
2	15	5	370500	1852.5	DFT-s-OFDM 16 QAM	1@1	22.35	22.41	0.1742
2	15	5	376000	1880	DFT-s-OFDM PI/2 BPSK	1@1	22.79	22.85	0.1928
2	15	5	376000	1880	DFT-s-OFDM QPSK	1@1	23	23.06	0.2023
2	15	5	376000	1880	DFT-s-OFDM 16 QAM	1@1	22	22.06	0.1607
2	15	5	381500	1907.5	DFT-s-OFDM PI/2 BPSK	1@1	23.16	23.22	0.2099
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	1@1	23.21	23.27	0.2123
2	15	5	381500	1907.5	DFT-s-OFDM 16 QAM	1@1	22.45	22.51	0.1782
2	15	10	371000	1855	DFT-s-OFDM PI/2 BPSK	1@1	23.04	23.1	0.2042
2	15	10	371000	1855	DFT-s-OFDM QPSK	1@1	23.14	23.2	0.2089
2	15	10	371000	1855	DFT-s-OFDM 16 QAM	1@1	22.33	22.39	0.1734
2	15	10	376000	1880	DFT-s-OFDM PI/2 BPSK	1@1	22.76	22.82	0.1914
2	15	10	376000	1880	DFT-s-OFDM QPSK	1@1	22.89	22.95	0.1972
2	15	10	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.04	22.1	0.1622
2	15	10	381000	1905	DFT-s-OFDM PI/2 BPSK	1@1	23.15	23.21	0.2094
2	15	10	381000	1905	DFT-s-OFDM QPSK	1@1	23.1	23.16	0.2070
2	15	10	381000	1905	DFT-s-OFDM 16 QAM	1@1	22.35	22.41	0.1742
2	15	15	371500	1857.5	DFT-s-OFDM PI/2 BPSK	1@1	23.1	23.16	0.2070
2	15	15	371500	1857.5	DFT-s-OFDM QPSK	1@1	23	23.06	0.2023
2	15	15	371500	1857.5	DFT-s-OFDM 16 QAM	1@1	22.21	22.27	0.1687
2	15	15	376000	1880	DFT-s-OFDM PI/2 BPSK	1@1	23.21	23.27	0.2123
2	15	15	376000	1880	DFT-s-OFDM QPSK	1@1	22.83	22.89	0.1945
2	15	15	376000	1880	DFT-s-OFDM 16 QAM	1@1	21.84	21.9	0.1549
2	15	15	380500	1902.5	DFT-s-OFDM PI/2 BPSK	1@1	23	23.06	0.2023
2	15	15	380500	1902.5	DFT-s-OFDM QPSK	1@1	22.98	23.04	0.2014
2	15	15	380500	1902.5	DFT-s-OFDM 16 QAM	1@1	22.01	22.07	0.1611



# FR1 N2 (ANT6)

LTE Band: 66, LTE BW: 10M, LTE ARFCN: Mid

## Transmitter Conducted Output Power And EIRP, (G<sub>T</sub>-L<sub>C</sub>)=-1.67dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
2	15	5	370500	1852.5	DFT-s-OFDM PI/2 BPSK	1@1	23.04	21.37	0.1371
2	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@1	23.01	21.34	0.1361
2	15	5	370500	1852.5	DFT-s-OFDM 16 QAM	1@1	22.01	20.34	0.1081
2	15	5	376000	1880	DFT-s-OFDM PI/2 BPSK	1@1	23.06	21.39	0.1377
2	15	5	376000	1880	DFT-s-OFDM QPSK	1@1	23.03	21.36	0.1368
2	15	5	376000	1880	DFT-s-OFDM 16 QAM	1@1	21.99	20.32	0.1076
2	15	5	381500	1907.5	DFT-s-OFDM PI/2 BPSK	1@1	23.07	21.4	0.1380
2	15	5	381500	1907.5	DFT-s-OFDM QPSK	1@1	23.09	21.42	0.1387
2	15	5	381500	1907.5	DFT-s-OFDM 16 QAM	1@1	21.99	20.32	0.1076
2	15	10	371000	1855	DFT-s-OFDM PI/2 BPSK	1@1	22.99	21.32	0.1355
2	15	10	371000	1855	DFT-s-OFDM QPSK	1@1	23.03	21.36	0.1368
2	15	10	371000	1855	DFT-s-OFDM 16 QAM	1@1	21.92	20.25	0.1059
2	15	10	376000	1880	DFT-s-OFDM PI/2 BPSK	1@1	23.15	21.48	0.1406
2	15	10	376000	1880	DFT-s-OFDM QPSK	1@1	23.13	21.46	0.1400
2	15	10	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.1	20.43	0.1104
2	15	10	381000	1905	DFT-s-OFDM PI/2 BPSK	1@1	23.03	21.36	0.1368
2	15	10	381000	1905	DFT-s-OFDM QPSK	1@1	23.06	21.39	0.1377
2	15	10	381000	1905	DFT-s-OFDM 16 QAM	1@1	21.94	20.27	0.1064
2	15	15	371500	1857.5	DFT-s-OFDM PI/2 BPSK	1@1	22.97	21.3	0.1349
2	15	15	371500	1857.5	DFT-s-OFDM QPSK	1@1	23.03	21.36	0.1368
2	15	15	371500	1857.5	DFT-s-OFDM 16 QAM	1@1	21.93	20.26	0.1062
2	15	15	376000	1880	DFT-s-OFDM PI/2 BPSK	1@1	22.9	21.23	0.1327
2	15	15	376000	1880	DFT-s-OFDM QPSK	1@1	22.95	21.28	0.1343
2	15	15	376000	1880	DFT-s-OFDM 16 QAM	1@1	21.83	20.16	0.1038
2	15	15	380500	1902.5	DFT-s-OFDM PI/2 BPSK	1@1	22.74	21.07	0.1279
2	15	15	380500	1902.5	DFT-s-OFDM QPSK	1@1	22.81	21.14	0.1300
2	15	15	380500	1902.5	DFT-s-OFDM 16 QAM	1@1	21.71	20.04	0.1009
2	15	20	372000	1860	DFT-s-OFDM PI/2 BPSK	50@25	23.11	21.44	0.1393
2	15	20	372000	1860	DFT-s-OFDM PI/2 BPSK	1@1	23.12	21.45	0.1396
2	15	20	372000	1860	DFT-s-OFDM PI/2 BPSK	1@104	23.12	21.45	0.1396
2	15	20	372000	1860	DFT-s-OFDM QPSK	50@25	23.2	21.53	0.1422
2	15	20	372000	1860	DFT-s-OFDM QPSK	1@1	23.21	21.54	0.1426
2	15	20	372000	1860	DFT-s-OFDM QPSK	1@104	23.21	21.54	0.1426
2	15	20	372000	1860	DFT-s-OFDM 16 QAM	50@25	22.18	20.51	0.1125
2	15	20	372000	1860	DFT-s-OFDM 16 QAM	1@1	22.08	20.41	0.1099
2	15	20	372000	1860	DFT-s-OFDM 16 QAM	1@104	22.11	20.44	0.1107
2	15	20	372000	1860	DFT-s-OFDM 64 QAM	50@25	20.68	19.01	0.0796

2	15	20	372000	1860	DFT-s-OFDM 64 QAM	1@1	20.84	19.17	0.0826
2	15	20	372000	1860	DFT-s-OFDM 64 QAM	1@104	20.87	19.2	0.0832
2	15	20	372000	1860	DFT-s-OFDM 256 QAM	50@25	18.65	16.98	0.0499
2	15	20	372000	1860	DFT-s-OFDM 256 QAM	1@1	18.04	16.37	0.0434
2	15	20	372000	1860	DFT-s-OFDM 256 QAM	1@104	18.08	16.41	0.0438
2	15	20	372000	1860	CP-OFDM QPSK	53@26	21.66	19.99	0.0998
2	15	20	372000	1860	CP-OFDM QPSK	1@1	21.66	19.99	0.0998
2	15	20	372000	1860	CP-OFDM QPSK	1@104	21.64	19.97	0.0993
2	15	20	376000	1880	DFT-s-OFDM PI/2 BPSK	50@25	23.11	21.44	0.1393
2	15	20	376000	1880	DFT-s-OFDM PI/2 BPSK	1@1	23.13	21.46	0.1400
2	15	20	376000	1880	DFT-s-OFDM PI/2 BPSK	1@104	23.05	21.38	0.1374
2	15	20	376000	1880	DFT-s-OFDM QPSK	50@25	23.15	21.48	0.1406
2	15	20	376000	1880	DFT-s-OFDM QPSK	1@1	23.18	21.51	0.1416
2	15	20	376000	1880	DFT-s-OFDM QPSK	1@104	23.07	21.4	0.1380
2	15	20	376000	1880	DFT-s-OFDM 16 QAM	50@25	22.11	20.44	0.1107
2	15	20	376000	1880	DFT-s-OFDM 16 QAM	1@1	22.09	20.42	0.1102
2	15	20	376000	1880	DFT-s-OFDM 16 QAM	1@104	22	20.33	0.1079
2	15	20	376000	1880	DFT-s-OFDM 64 QAM	50@25	20.66	18.99	0.0793
2	15	20	376000	1880	DFT-s-OFDM 64 QAM	1@1	20.83	19.16	0.0824
2	15	20	376000	1880	DFT-s-OFDM 64 QAM	1@104	20.73	19.06	0.0805
2	15	20	376000	1880	DFT-s-OFDM 256 QAM	50@25	18.49	16.82	0.0481
2	15	20	376000	1880	DFT-s-OFDM 256 QAM	1@1	18.09	16.42	0.0439
2	15	20	376000	1880	DFT-s-OFDM 256 QAM	1@104	18	16.33	0.0430
2	15	20	376000	1880	CP-OFDM QPSK	53@26	21.47	19.8	0.0955
2	15	20	376000	1880	CP-OFDM QPSK	1@1	21.67	20	0.1000
2	15	20	376000	1880	CP-OFDM QPSK	1@104	21.53	19.86	0.0968
2	15	20	380000	1900	DFT-s-OFDM PI/2 BPSK	50@25	23.01	21.34	0.1361
2	15	20	380000	1900	DFT-s-OFDM PI/2 BPSK	1@1	22.98	21.31	0.1352
2	15	20	380000	1900	DFT-s-OFDM PI/2 BPSK	1@104	22.98	21.31	0.1352
2	15	20	380000	1900	DFT-s-OFDM QPSK	50@25	22.98	21.31	0.1352
2	15	20	380000	1900	DFT-s-OFDM QPSK	1@1	23.12	21.45	0.1396
2	15	20	380000	1900	DFT-s-OFDM QPSK	1@104	23	21.33	0.1358
2	15	20	380000	1900	DFT-s-OFDM 16 QAM	50@25	22	20.33	0.1079
2	15	20	380000	1900	DFT-s-OFDM 16 QAM	1@1	21.92	20.25	0.1059
2	15	20	380000	1900	DFT-s-OFDM 16 QAM	1@104	21.92	20.25	0.1059
2	15	20	380000	1900	DFT-s-OFDM 64 QAM	50@25	20.56	18.89	0.0774
2	15	20	380000	1900	DFT-s-OFDM 64 QAM	1@1	20.57	18.9	0.0776
2	15	20	380000	1900	DFT-s-OFDM 64 QAM	1@104	20.74	19.07	0.0807
2	15	20	380000	1900	DFT-s-OFDM 256 QAM	50@25	18.43	16.76	0.0474
2	15	20	380000	1900	DFT-s-OFDM 256 QAM	1@1	17.96	16.29	0.0426
2	15	20	380000	1900	DFT-s-OFDM 256 QAM	1@104	17.95	16.28	0.0425
2	15	20	380000	1900	CP-OFDM QPSK	53@26	21.37	19.7	0.0933
2	15	20	380000	1900	CP-OFDM QPSK	1@1	21.5	19.83	0.0962
2	15	20	380000	1900	CP-OFDM QPSK	1@104	21.46	19.79	0.0953

# FR1 N5 (ANT1)

## Transmitter Conducted Output Power And ERP, (G<sub>T</sub>-L<sub>C</sub>)=-0.4dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	ERP (W)
5	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	50@25	23.43	23.03	0.1225
5	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	1@1	23.78	23.38	0.1327
5	15	20	166800	834	DFT-s-OFDM PI/2 BPSK	1@104	23.26	22.86	0.1178
5	15	20	166800	834	DFT-s-OFDM QPSK	50@25	23.51	23.11	0.1247
5	15	20	166800	834	DFT-s-OFDM QPSK	1@1	23.75	23.35	0.1318
5	15	20	166800	834	DFT-s-OFDM QPSK	1@104	23.45	23.05	0.1230
5	15	20	166800	834	DFT-s-OFDM 16 QAM	50@25	22.43	22.03	0.0973
5	15	20	166800	834	DFT-s-OFDM 16 QAM	1@1	22.77	22.37	0.1052
5	15	20	166800	834	DFT-s-OFDM 16 QAM	1@104	22.38	21.98	0.0962
5	15	20	166800	834	DFT-s-OFDM 64 QAM	50@25	20.95	20.55	0.0692
5	15	20	166800	834	DFT-s-OFDM 64 QAM	1@1	21.19	20.79	0.0731
5	15	20	166800	834	DFT-s-OFDM 64 QAM	1@104	20.92	20.52	0.0687
5	15	20	166800	834	DFT-s-OFDM 256 QAM	50@25	18.89	18.49	0.0431
5	15	20	166800	834	DFT-s-OFDM 256 QAM	1@1	18.81	18.41	0.0423
5	15	20	166800	834	DFT-s-OFDM 256 QAM	1@104	18.57	18.17	0.0400
5	15	20	166800	834	CP-OFDM QPSK	53@26	21.96	21.56	0.0873
5	15	20	166800	834	CP-OFDM QPSK	1@1	22.14	21.74	0.0910
5	15	20	166800	834	CP-OFDM QPSK	1@104	21.53	21.13	0.0791
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	50@25	23.4	23	0.1216
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	23.59	23.19	0.1271
5	15	20	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@104	23.24	22.84	0.1172
5	15	20	167300	836.5	DFT-s-OFDM QPSK	50@25	23.45	23.05	0.1230
5	15	20	167300	836.5	DFT-s-OFDM QPSK	1@1	23.74	23.34	0.1315
5	15	20	167300	836.5	DFT-s-OFDM QPSK	1@104	23.26	22.86	0.1178
5	15	20	167300	836.5	DFT-s-OFDM 16 QAM	50@25	22.38	21.98	0.0962
5	15	20	167300	836.5	DFT-s-OFDM 16 QAM	1@1	22.66	22.26	0.1026
5	15	20	167300	836.5	DFT-s-OFDM 16 QAM	1@104	22.44	22.04	0.0975
5	15	20	167300	836.5	DFT-s-OFDM 64 QAM	50@25	20.9	20.5	0.0684
5	15	20	167300	836.5	DFT-s-OFDM 64 QAM	1@1	21.13	20.73	0.0721
5	15	20	167300	836.5	DFT-s-OFDM 64 QAM	1@104	20.86	20.46	0.0678
5	15	20	167300	836.5	DFT-s-OFDM 256 QAM	50@25	18.94	18.54	0.0436
5	15	20	167300	836.5	DFT-s-OFDM 256 QAM	1@1	18.77	18.37	0.0419
5	15	20	167300	836.5	DFT-s-OFDM 256 QAM	1@104	18.56	18.16	0.0399
5	15	20	167300	836.5	CP-OFDM QPSK	53@26	21.87	21.47	0.0855
5	15	20	167300	836.5	CP-OFDM QPSK	1@1	22.14	21.74	0.0910
5	15	20	167300	836.5	CP-OFDM QPSK	1@104	21.78	21.38	0.0838
5	15	20	167800	839	DFT-s-OFDM PI/2 BPSK	50@25	23.36	22.96	0.1205
5	15	20	167800	839	DFT-s-OFDM PI/2 BPSK	1@1	23.48	23.08	0.1239
5	15	20	167800	839	DFT-s-OFDM PI/2 BPSK	1@104	23.24	22.84	0.1172

5	15	20	167800	839	DFT-s-OFDM QPSK	50@25	23.43	23.03	0.1225
5	15	20	167800	839	DFT-s-OFDM QPSK	1@1	23.69	23.29	0.1300
5	15	20	167800	839	DFT-s-OFDM QPSK	1@104	23.42	23.02	0.1222
5	15	20	167800	839	DFT-s-OFDM 16 QAM	50@25	22.35	21.95	0.0955
5	15	20	167800	839	DFT-s-OFDM 16 QAM	1@1	22.61	22.21	0.1014
5	15	20	167800	839	DFT-s-OFDM 16 QAM	1@104	22.4	22	0.0966
5	15	20	167800	839	DFT-s-OFDM 64 QAM	50@25	20.88	20.48	0.0681
5	15	20	167800	839	DFT-s-OFDM 64 QAM	1@1	21.14	20.74	0.0723
5	15	20	167800	839	DFT-s-OFDM 64 QAM	1@104	20.87	20.47	0.0679
5	15	20	167800	839	DFT-s-OFDM 256 QAM	50@25	18.85	18.45	0.0427
5	15	20	167800	839	DFT-s-OFDM 256 QAM	1@1	18.75	18.35	0.0417
5	15	20	167800	839	DFT-s-OFDM 256 QAM	1@104	18.49	18.09	0.0393
5	15	20	167800	839	CP-OFDM QPSK	53@26	21.91	21.51	0.0863
5	15	20	167800	839	CP-OFDM QPSK	1@1	22.05	21.65	0.0891
5	15	20	167800	839	CP-OFDM QPSK	1@104	21.8	21.4	0.0841
5	15	5	165300	826.5	DFT-s-OFDM PI/2 BPSK	1@1	23.61	23.21	0.1276
5	15	5	165300	826.5	DFT-s-OFDM QPSK	1@1	23.77	23.37	0.1324
5	15	5	165300	826.5	DFT-s-OFDM 16 QAM	1@1	22.79	22.39	0.1057
5	15	5	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	23.46	23.06	0.1233
5	15	5	167300	836.5	DFT-s-OFDM QPSK	1@1	23.61	23.21	0.1276
5	15	5	167300	836.5	DFT-s-OFDM 16 QAM	1@1	22.56	22.16	0.1002
5	15	5	169300	846.5	DFT-s-OFDM PI/2 BPSK	1@1	23.4	23	0.1216
5	15	5	169300	846.5	DFT-s-OFDM QPSK	1@1	23.43	23.03	0.1225
5	15	5	169300	846.5	DFT-s-OFDM 16 QAM	1@1	22.37	21.97	0.0959
5	15	10	165800	829	DFT-s-OFDM PI/2 BPSK	1@1	23.56	23.16	0.1262
5	15	10	165800	829	DFT-s-OFDM QPSK	1@1	23.71	23.31	0.1306
5	15	10	165800	829	DFT-s-OFDM 16 QAM	1@1	22.69	22.29	0.1033
5	15	10	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	23.44	23.04	0.1227
5	15	10	167300	836.5	DFT-s-OFDM QPSK	1@1	23.61	23.21	0.1276
5	15	10	167300	836.5	DFT-s-OFDM 16 QAM	1@1	22.6	22.2	0.1012
5	15	10	168800	844	DFT-s-OFDM PI/2 BPSK	1@1	23.38	22.98	0.1211
5	15	10	168800	844	DFT-s-OFDM QPSK	1@1	23.53	23.13	0.1253
5	15	10	168800	844	DFT-s-OFDM 16 QAM	1@1	22.51	22.11	0.0991
5	15	15	166300	831.5	DFT-s-OFDM PI/2 BPSK	1@1	23.54	23.14	0.1256
5	15	15	166300	831.5	DFT-s-OFDM QPSK	1@1	23.6	23.2	0.1274
5	15	15	166300	831.5	DFT-s-OFDM 16 QAM	1@1	22.75	22.35	0.1047
5	15	15	167300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	23.51	23.11	0.1247
5	15	15	167300	836.5	DFT-s-OFDM QPSK	1@1	23.63	23.23	0.1282
5	15	15	167300	836.5	DFT-s-OFDM 16 QAM	1@1	22.62	22.22	0.1016
5	15	15	168300	841.5	DFT-s-OFDM PI/2 BPSK	1@1	23.4	23	0.1216
5	15	15	168300	841.5	DFT-s-OFDM QPSK	1@1	23.56	23.16	0.1262
5	15	15	168300	841.5	DFT-s-OFDM 16 QAM	1@1	22.57	22.17	0.1005

# FR1 N25 (ANT1)

## Transmitter Conducted Output Power And EIRP, (G<sub>T</sub>-L<sub>C</sub>)=0.06dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
25	15	20	372000	1860	DFT-s-OFDM PI/2 BPSK	50@25	22.98	23.04	0.2014
25	15	20	372000	1860	DFT-s-OFDM PI/2 BPSK	1@1	23.33	23.39	0.2183
25	15	20	372000	1860	DFT-s-OFDM PI/2 BPSK	1@104	22.85	22.91	0.1954
25	15	20	372000	1860	DFT-s-OFDM QPSK	50@25	22.98	23.04	0.2014
25	15	20	372000	1860	DFT-s-OFDM QPSK	1@1	23.1	23.16	0.2070
25	15	20	372000	1860	DFT-s-OFDM QPSK	1@104	23.05	23.11	0.2046
25	15	20	372000	1860	DFT-s-OFDM 16 QAM	50@25	22.01	22.07	0.1611
25	15	20	372000	1860	DFT-s-OFDM 16 QAM	1@1	22.04	22.1	0.1622
25	15	20	372000	1860	DFT-s-OFDM 16 QAM	1@104	22.02	22.08	0.1614
25	15	20	372000	1860	DFT-s-OFDM 64 QAM	50@25	20.47	20.53	0.1130
25	15	20	372000	1860	DFT-s-OFDM 64 QAM	1@1	20.57	20.63	0.1156
25	15	20	372000	1860	DFT-s-OFDM 64 QAM	1@104	20.49	20.55	0.1135
25	15	20	372000	1860	DFT-s-OFDM 256 QAM	50@25	18.45	18.51	0.0710
25	15	20	372000	1860	DFT-s-OFDM 256 QAM	1@1	18.16	18.22	0.0664
25	15	20	372000	1860	DFT-s-OFDM 256 QAM	1@104	18.23	18.29	0.0675
25	15	20	372000	1860	CP-OFDM QPSK	53@26	21.57	21.63	0.1455
25	15	20	372000	1860	CP-OFDM QPSK	1@1	21.49	21.55	0.1429
25	15	20	372000	1860	CP-OFDM QPSK	1@104	21.46	21.52	0.1419
25	15	20	376500	1882.5	DFT-s-OFDM PI/2 BPSK	50@25	22.87	22.93	0.1963
25	15	20	376500	1882.5	DFT-s-OFDM PI/2 BPSK	1@1	23.08	23.14	0.2061
25	15	20	376500	1882.5	DFT-s-OFDM PI/2 BPSK	1@104	22.78	22.84	0.1923
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	50@25	22.94	23	0.1995
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	1@1	22.99	23.05	0.2018
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	1@104	22.82	22.88	0.1941
25	15	20	376500	1882.5	DFT-s-OFDM 16 QAM	50@25	21.91	21.97	0.1574
25	15	20	376500	1882.5	DFT-s-OFDM 16 QAM	1@1	22.01	22.07	0.1611
25	15	20	376500	1882.5	DFT-s-OFDM 16 QAM	1@104	21.95	22.01	0.1589
25	15	20	376500	1882.5	DFT-s-OFDM 64 QAM	50@25	20.44	20.5	0.1122
25	15	20	376500	1882.5	DFT-s-OFDM 64 QAM	1@1	20.45	20.51	0.1125
25	15	20	376500	1882.5	DFT-s-OFDM 64 QAM	1@104	20.47	20.53	0.1130
25	15	20	376500	1882.5	DFT-s-OFDM 256 QAM	50@25	18.31	18.37	0.0687
25	15	20	376500	1882.5	DFT-s-OFDM 256 QAM	1@1	18.17	18.23	0.0665
25	15	20	376500	1882.5	DFT-s-OFDM 256 QAM	1@104	18.18	18.24	0.0667
25	15	20	376500	1882.5	CP-OFDM QPSK	53@26	21.38	21.44	0.1393
25	15	20	376500	1882.5	CP-OFDM QPSK	1@1	21.4	21.46	0.1400
25	15	20	376500	1882.5	CP-OFDM QPSK	1@104	21.42	21.48	0.1406
25	15	20	381000	1905	DFT-s-OFDM PI/2 BPSK	50@25	23.1	23.16	0.2070
25	15	20	381000	1905	DFT-s-OFDM PI/2 BPSK	1@1	23.18	23.24	0.2109
25	15	20	381000	1905	DFT-s-OFDM PI/2 BPSK	1@104	23.02	23.08	0.2032

25	15	20	381000	1905	DFT-s-OFDM QPSK	50@25	23.15	23.21	0.2094
25	15	20	381000	1905	DFT-s-OFDM QPSK	1@1	23.07	23.13	0.2056
25	15	20	381000	1905	DFT-s-OFDM QPSK	1@104	23.17	23.23	0.2104
25	15	20	381000	1905	DFT-s-OFDM 16 QAM	50@25	22.06	22.12	0.1629
25	15	20	381000	1905	DFT-s-OFDM 16 QAM	1@1	22.12	22.18	0.1652
25	15	20	381000	1905	DFT-s-OFDM 16 QAM	1@104	22.27	22.33	0.1710
25	15	20	381000	1905	DFT-s-OFDM 64 QAM	50@25	20.59	20.65	0.1161
25	15	20	381000	1905	DFT-s-OFDM 64 QAM	1@1	20.6	20.66	0.1164
25	15	20	381000	1905	DFT-s-OFDM 64 QAM	1@104	20.77	20.83	0.1211
25	15	20	381000	1905	DFT-s-OFDM 256 QAM	50@25	18.48	18.54	0.0714
25	15	20	381000	1905	DFT-s-OFDM 256 QAM	1@1	18.24	18.3	0.0676
25	15	20	381000	1905	DFT-s-OFDM 256 QAM	1@104	18.35	18.41	0.0693
25	15	20	381000	1905	CP-OFDM QPSK	53@26	21.61	21.67	0.1469
25	15	20	381000	1905	CP-OFDM QPSK	1@1	21.51	21.57	0.1435
25	15	20	381000	1905	CP-OFDM QPSK	1@104	21.62	21.68	0.1472
25	15	5	370500	1852.5	DFT-s-OFDM PI/2 BPSK	1@1	23.04	23.1	0.2042
25	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@1	23.22	23.28	0.2128
25	15	5	370500	1852.5	DFT-s-OFDM 16 QAM	1@1	22.31	22.37	0.1726
25	15	5	376500	1882.5	DFT-s-OFDM PI/2 BPSK	1@1	22.93	22.99	0.1991
25	15	5	376500	1882.5	DFT-s-OFDM QPSK	1@1	23.1	23.16	0.2070
25	15	5	376500	1882.5	DFT-s-OFDM 16 QAM	1@1	22.17	22.23	0.1671
25	15	5	382500	1912.5	DFT-s-OFDM PI/2 BPSK	1@1	23.1	23.16	0.2070
25	15	5	382500	1912.5	DFT-s-OFDM QPSK	1@1	23.32	23.38	0.2178
25	15	5	382500	1912.5	DFT-s-OFDM 16 QAM	1@1	22.26	22.32	0.1706
25	15	10	371000	1855	DFT-s-OFDM PI/2 BPSK	1@1	22.93	22.99	0.1991
25	15	10	371000	1855	DFT-s-OFDM QPSK	1@1	23.06	23.12	0.2051
25	15	10	371000	1855	DFT-s-OFDM 16 QAM	1@1	22.19	22.25	0.1679
25	15	10	376500	1882.5	DFT-s-OFDM PI/2 BPSK	1@1	22.89	22.95	0.1972
25	15	10	376500	1882.5	DFT-s-OFDM QPSK	1@1	23.07	23.13	0.2056
25	15	10	376500	1882.5	DFT-s-OFDM 16 QAM	1@1	22.1	22.16	0.1644
25	15	10	382000	1910	DFT-s-OFDM PI/2 BPSK	1@1	23.16	23.22	0.2099
25	15	10	382000	1910	DFT-s-OFDM QPSK	1@1	23.3	23.36	0.2168
25	15	10	382000	1910	DFT-s-OFDM 16 QAM	1@1	22.38	22.44	0.1754
25	15	15	371500	1857.5	DFT-s-OFDM PI/2 BPSK	1@1	22.93	22.99	0.1991
25	15	15	371500	1857.5	DFT-s-OFDM QPSK	1@1	22.9	22.96	0.1977
25	15	15	371500	1857.5	DFT-s-OFDM 16 QAM	1@1	22.07	22.13	0.1633
25	15	15	376500	1882.5	DFT-s-OFDM PI/2 BPSK	1@1	22.87	22.93	0.1963
25	15	15	376500	1882.5	DFT-s-OFDM QPSK	1@1	22.97	23.03	0.2009
25	15	15	376500	1882.5	DFT-s-OFDM 16 QAM	1@1	22.01	22.07	0.1611
25	15	15	381500	1907.5	DFT-s-OFDM PI/2 BPSK	1@1	22.94	23	0.1995
25	15	15	381500	1907.5	DFT-s-OFDM QPSK	1@1	23.11	23.17	0.2075
25	15	15	381500	1907.5	DFT-s-OFDM 16 QAM	1@1	22.16	22.22	0.1667

# FR1 N41 (ANT2)

## Transmitter Conducted Output Power And EIRP, $(G_T-L_C)=0.09\text{dB}$

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
41	30	20	501204	2506.02	DFT-s-OFDM PI/2 BPSK	1@1	26.24	26.33	0.4295
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@1	26.17	26.26	0.4227
41	30	20	501204	2506.02	DFT-s-OFDM 16 QAM	1@1	25.27	25.36	0.3436
41	30	20	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.16	26.25	0.4217
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.14	26.23	0.4198
41	30	20	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	25.16	25.25	0.3350
41	30	20	535998	2679.99	DFT-s-OFDM PI/2 BPSK	1@1	26.38	26.47	0.4436
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@1	26.44	26.53	0.4498
41	30	20	535998	2679.99	DFT-s-OFDM 16 QAM	1@1	26.27	26.36	0.4325
41	30	30	502200	2511	DFT-s-OFDM PI/2 BPSK	1@1	26.24	26.33	0.4295
41	30	30	502200	2511	DFT-s-OFDM QPSK	1@1	26.14	26.23	0.4198
41	30	30	502200	2511	DFT-s-OFDM 16 QAM	1@1	26.19	26.28	0.4246
41	30	30	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.15	26.24	0.4207
41	30	30	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.12	26.21	0.4178
41	30	30	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	25.26	25.35	0.3428
41	30	30	534996	2674.98	DFT-s-OFDM PI/2 BPSK	1@1	26.2	26.29	0.4256
41	30	30	534996	2674.98	DFT-s-OFDM QPSK	1@1	26.27	26.36	0.4325
41	30	30	534996	2674.98	DFT-s-OFDM 16 QAM	1@1	26.26	26.35	0.4315
41	30	40	503202	2516.01	DFT-s-OFDM PI/2 BPSK	1@1	26.28	26.37	0.4335
41	30	40	503202	2516.01	DFT-s-OFDM QPSK	1@1	26.25	26.34	0.4305
41	30	40	503202	2516.01	DFT-s-OFDM 16 QAM	1@1	25.36	25.45	0.3508
41	30	40	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.2	26.29	0.4256
41	30	40	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.18	26.27	0.4236
41	30	40	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	25.25	25.34	0.3420
41	30	40	534000	2670	DFT-s-OFDM PI/2 BPSK	1@1	26.35	26.44	0.4406
41	30	40	534000	2670	DFT-s-OFDM QPSK	1@1	26.28	26.37	0.4335
41	30	40	534000	2670	DFT-s-OFDM 16 QAM	1@1	26.25	26.34	0.4305
41	30	50	504204	2521.02	DFT-s-OFDM PI/2 BPSK	1@1	26.2	26.29	0.4256
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@1	26.19	26.28	0.4246
41	30	50	504204	2521.02	DFT-s-OFDM 16 QAM	1@1	25.3	25.39	0.3459
41	30	50	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	26.04	26.13	0.4102
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@1	26.02	26.11	0.4083
41	30	50	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	25.15	25.24	0.3342
41	30	50	532998	2664.99	DFT-s-OFDM PI/2 BPSK	1@1	26.24	26.33	0.4295
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@1	26.25	26.34	0.4305
41	30	50	532998	2664.99	DFT-s-OFDM 16 QAM	1@1	26.26	26.35	0.4315
41	30	60	505200	2526	DFT-s-OFDM PI/2 BPSK	1@1	26.29	26.38	0.4345
41	30	60	505200	2526	DFT-s-OFDM QPSK	1@1	26.25	26.34	0.4305
41	30	60	505200	2526	DFT-s-OFDM 16 QAM	1@1	25.38	25.47	0.3524

41	30	60	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	25.94	26.03	0.4009
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@1	25.94	26.03	0.4009
41	30	60	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	25.05	25.14	0.3266
41	30	60	531996	2659.98	DFT-s-OFDM PI/2 BPSK	1@1	26.17	26.26	0.4227
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@1	26.18	26.27	0.4236
41	30	60	531996	2659.98	DFT-s-OFDM 16 QAM	1@1	26.09	26.18	0.4150
41	30	80	507204	2536.02	DFT-s-OFDM PI/2 BPSK	1@1	26.05	26.14	0.4111
41	30	80	507204	2536.02	DFT-s-OFDM QPSK	1@1	26.03	26.12	0.4093
41	30	80	507204	2536.02	DFT-s-OFDM 16 QAM	1@1	25.14	25.23	0.3334
41	30	80	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	25.87	25.96	0.3945
41	30	80	518598	2592.99	DFT-s-OFDM QPSK	1@1	25.87	25.96	0.3945
41	30	80	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	24.99	25.08	0.3221
41	30	80	529998	2649.99	DFT-s-OFDM PI/2 BPSK	1@1	25.95	26.04	0.4018
41	30	80	529998	2649.99	DFT-s-OFDM QPSK	1@1	25.94	26.03	0.4009
41	30	80	529998	2649.99	DFT-s-OFDM 16 QAM	1@1	25.07	25.16	0.3281
41	30	90	508200	2541	DFT-s-OFDM PI/2 BPSK	1@1	26.04	26.13	0.4102
41	30	90	508200	2541	DFT-s-OFDM QPSK	1@1	26.03	26.12	0.4093
41	30	90	508200	2541	DFT-s-OFDM 16 QAM	1@1	25.93	26.02	0.3999
41	30	90	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	25.82	25.91	0.3899
41	30	90	518598	2592.99	DFT-s-OFDM QPSK	1@1	25.81	25.9	0.3890
41	30	90	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	24.94	25.03	0.3184
41	30	90	528996	2644.98	DFT-s-OFDM PI/2 BPSK	1@1	25.83	25.92	0.3908
41	30	90	528996	2644.98	DFT-s-OFDM QPSK	1@1	25.84	25.93	0.3917
41	30	90	528996	2644.98	DFT-s-OFDM 16 QAM	1@1	24.96	25.05	0.3199
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	135@67	25.98	26.07	0.4046
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	1@1	26.03	26.12	0.4093
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	1@271	25.96	26.05	0.4027
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	135@67	25.98	26.07	0.4046
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@1	26.12	26.21	0.4178
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@271	26	26.09	0.4064
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	135@67	24.97	25.06	0.3206
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@1	25.18	25.27	0.3365
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@271	25.16	25.25	0.3350
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	135@67	23.46	23.55	0.2265
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@1	23.45	23.54	0.2259
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@271	23.37	23.46	0.2218
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	135@67	21.45	21.54	0.1426
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@1	21.42	21.51	0.1416
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@271	21.4	21.49	0.1409
41	30	100	509202	2546.01	CP-OFDM QPSK	137@68	24.52	24.61	0.2891
41	30	100	509202	2546.01	CP-OFDM QPSK	1@1	24.57	24.66	0.2924
41	30	100	509202	2546.01	CP-OFDM QPSK	1@271	24.53	24.62	0.2897
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	135@67	26.01	26.1	0.4074
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	25.75	25.84	0.3837
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@271	26.29	26.38	0.4345
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	135@67	25.99	26.08	0.4055
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@1	25.87	25.96	0.3945
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@271	26.3	26.39	0.4355



41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	135@67	25.01	25.1	0.3236
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	24.9	24.99	0.3155
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@271	25.43	25.52	0.3565
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	135@67	23.53	23.62	0.2301
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@1	23.19	23.28	0.2128
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@271	23.66	23.75	0.2371
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	135@67	21.51	21.6	0.1445
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@1	21.16	21.25	0.1334
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@271	21.69	21.78	0.1507
41	30	100	518598	2592.99	CP-OFDM QPSK	137@68	24.54	24.63	0.2904
41	30	100	518598	2592.99	CP-OFDM QPSK	1@1	24.3	24.39	0.2748
41	30	100	518598	2592.99	CP-OFDM QPSK	1@271	24.84	24.93	0.3112
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	135@67	26.23	26.32	0.4285
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	1@1	26.45	26.54	0.4508
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	1@271	26.29	26.38	0.4345
41	30	100	528000	2640	DFT-s-OFDM QPSK	135@67	26.22	26.31	0.4276
41	30	100	528000	2640	DFT-s-OFDM QPSK	1@1	26.35	26.44	0.4406
41	30	100	528000	2640	DFT-s-OFDM QPSK	1@271	26.3	26.39	0.4355
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	135@67	25.24	25.33	0.3412
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	1@1	24.92	25.01	0.3170
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	1@271	25.48	25.57	0.3606
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	135@67	23.71	23.8	0.2399
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	1@1	23.22	23.31	0.2143
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	1@271	23.82	23.91	0.2460
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	135@67	21.73	21.82	0.1521
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	1@1	21.19	21.28	0.1343
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	1@271	21.73	21.82	0.1521
41	30	100	528000	2640	CP-OFDM QPSK	137@68	24.72	24.81	0.3027
41	30	100	528000	2640	CP-OFDM QPSK	1@1	24.34	24.43	0.2773
41	30	100	528000	2640	CP-OFDM QPSK	1@271	24.89	24.98	0.3148

# FR1 N66 (ANT1)

## Transmitter Conducted Output Power And EIRP, (G<sub>T</sub>-L<sub>C</sub>)=0.15dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
66	15	5	342500	1712.5	DFT-s-OFDM PI/2 BPSK	1@1	23.01	23.16	0.2070
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@1	23.09	23.24	0.2109
66	15	5	342500	1712.5	DFT-s-OFDM 16 QAM	1@1	22.21	22.36	0.1722
66	15	5	349000	1745	DFT-s-OFDM PI/2 BPSK	1@1	23.21	23.36	0.2168
66	15	5	349000	1745	DFT-s-OFDM QPSK	1@1	23.24	23.39	0.2183
66	15	5	349000	1745	DFT-s-OFDM 16 QAM	1@1	22.35	22.5	0.1778
66	15	5	355500	1777.5	DFT-s-OFDM PI/2 BPSK	1@1	23.14	23.29	0.2133
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@1	23.31	23.46	0.2218
66	15	5	355500	1777.5	DFT-s-OFDM 16 QAM	1@1	22.33	22.48	0.1770
66	15	10	343000	1715	DFT-s-OFDM PI/2 BPSK	1@1	23.06	23.21	0.2094
66	15	10	343000	1715	DFT-s-OFDM QPSK	1@1	23.2	23.35	0.2163
66	15	10	343000	1715	DFT-s-OFDM 16 QAM	1@1	22.2	22.35	0.1718
66	15	10	349000	1745	DFT-s-OFDM PI/2 BPSK	1@1	23.03	23.18	0.2080
66	15	10	349000	1745	DFT-s-OFDM QPSK	1@1	23.22	23.37	0.2173
66	15	10	349000	1745	DFT-s-OFDM 16 QAM	1@1	22.33	22.48	0.1770
66	15	10	355000	1775	DFT-s-OFDM PI/2 BPSK	1@1	23.18	23.33	0.2153
66	15	10	355000	1775	DFT-s-OFDM QPSK	1@1	23.33	23.48	0.2228
66	15	10	355000	1775	DFT-s-OFDM 16 QAM	1@1	22.36	22.51	0.1782
66	15	15	343500	1717.5	DFT-s-OFDM PI/2 BPSK	1@1	22.99	23.14	0.2061
66	15	15	343500	1717.5	DFT-s-OFDM QPSK	1@1	23.14	23.29	0.2133
66	15	15	343500	1717.5	DFT-s-OFDM 16 QAM	1@1	22.14	22.29	0.1694
66	15	15	349000	1745	DFT-s-OFDM PI/2 BPSK	1@1	22.97	23.12	0.2051
66	15	15	349000	1745	DFT-s-OFDM QPSK	1@1	23.15	23.3	0.2138
66	15	15	349000	1745	DFT-s-OFDM 16 QAM	1@1	22.16	22.31	0.1702
66	15	15	354500	1772.5	DFT-s-OFDM PI/2 BPSK	1@1	22.99	23.14	0.2061
66	15	15	354500	1772.5	DFT-s-OFDM QPSK	1@1	23.21	23.36	0.2168
66	15	15	354500	1772.5	DFT-s-OFDM 16 QAM	1@1	22.16	22.31	0.1702
66	15	20	344000	1720	DFT-s-OFDM PI/2 BPSK	50@25	23.07	23.22	0.2099
66	15	20	344000	1720	DFT-s-OFDM PI/2 BPSK	1@1	22.96	23.11	0.2046
66	15	20	344000	1720	DFT-s-OFDM PI/2 BPSK	1@104	23.09	23.24	0.2109
66	15	20	344000	1720	DFT-s-OFDM QPSK	50@25	23.04	23.19	0.2084
66	15	20	344000	1720	DFT-s-OFDM QPSK	1@1	23.07	23.22	0.2099
66	15	20	344000	1720	DFT-s-OFDM QPSK	1@104	23.23	23.38	0.2178
66	15	20	344000	1720	DFT-s-OFDM 16 QAM	50@25	22	22.15	0.1641
66	15	20	344000	1720	DFT-s-OFDM 16 QAM	1@1	22.1	22.25	0.1679
66	15	20	344000	1720	DFT-s-OFDM 16 QAM	1@104	22.21	22.36	0.1722
66	15	20	344000	1720	DFT-s-OFDM 64 QAM	50@25	20.57	20.72	0.1180
66	15	20	344000	1720	DFT-s-OFDM 64 QAM	1@1	20.62	20.77	0.1194
66	15	20	344000	1720	DFT-s-OFDM 64 QAM	1@104	20.74	20.89	0.1227

66	15	20	344000	1720	DFT-s-OFDM 256 QAM	50@25	18.46	18.61	0.0726
66	15	20	344000	1720	DFT-s-OFDM 256 QAM	1@1	18.23	18.38	0.0689
66	15	20	344000	1720	DFT-s-OFDM 256 QAM	1@104	18.38	18.53	0.0713
66	15	20	344000	1720	CP-OFDM QPSK	53@26	21.58	21.73	0.1489
66	15	20	344000	1720	CP-OFDM QPSK	1@1	21.24	21.39	0.1377
66	15	20	344000	1720	CP-OFDM QPSK	1@104	21.4	21.55	0.1429
66	15	20	349000	1745	DFT-s-OFDM PI/2 BPSK	50@25	23.07	23.22	0.2099
66	15	20	349000	1745	DFT-s-OFDM PI/2 BPSK	1@1	23.04	23.19	0.2084
66	15	20	349000	1745	DFT-s-OFDM PI/2 BPSK	1@104	23.02	23.17	0.2075
66	15	20	349000	1745	DFT-s-OFDM QPSK	50@25	23.12	23.27	0.2123
66	15	20	349000	1745	DFT-s-OFDM QPSK	1@1	22.99	23.14	0.2061
66	15	20	349000	1745	DFT-s-OFDM QPSK	1@104	23.1	23.25	0.2113
66	15	20	349000	1745	DFT-s-OFDM 16 QAM	50@25	22.1	22.25	0.1679
66	15	20	349000	1745	DFT-s-OFDM 16 QAM	1@1	22.12	22.27	0.1687
66	15	20	349000	1745	DFT-s-OFDM 16 QAM	1@104	22.22	22.37	0.1726
66	15	20	349000	1745	DFT-s-OFDM 64 QAM	50@25	20.65	20.8	0.1202
66	15	20	349000	1745	DFT-s-OFDM 64 QAM	1@1	20.65	20.8	0.1202
66	15	20	349000	1745	DFT-s-OFDM 64 QAM	1@104	20.74	20.89	0.1227
66	15	20	349000	1745	DFT-s-OFDM 256 QAM	50@25	18.51	18.66	0.0735
66	15	20	349000	1745	DFT-s-OFDM 256 QAM	1@1	18.27	18.42	0.0695
66	15	20	349000	1745	DFT-s-OFDM 256 QAM	1@104	18.32	18.47	0.0703
66	15	20	349000	1745	CP-OFDM QPSK	53@26	21.57	21.72	0.1486
66	15	20	349000	1745	CP-OFDM QPSK	1@1	21.64	21.79	0.1510
66	15	20	349000	1745	CP-OFDM QPSK	1@104	21.36	21.51	0.1416
66	15	20	354000	1770	DFT-s-OFDM PI/2 BPSK	50@25	23.11	23.26	0.2118
66	15	20	354000	1770	DFT-s-OFDM PI/2 BPSK	1@1	23.34	23.49	0.2234
66	15	20	354000	1770	DFT-s-OFDM PI/2 BPSK	1@104	23.13	23.28	0.2128
66	15	20	354000	1770	DFT-s-OFDM QPSK	50@25	23.14	23.29	0.2133
66	15	20	354000	1770	DFT-s-OFDM QPSK	1@1	23.22	23.37	0.2173
66	15	20	354000	1770	DFT-s-OFDM QPSK	1@104	23.12	23.27	0.2123
66	15	20	354000	1770	DFT-s-OFDM 16 QAM	50@25	22.11	22.26	0.1683
66	15	20	354000	1770	DFT-s-OFDM 16 QAM	1@1	22.24	22.39	0.1734
66	15	20	354000	1770	DFT-s-OFDM 16 QAM	1@104	22.36	22.51	0.1782
66	15	20	354000	1770	DFT-s-OFDM 64 QAM	50@25	20.64	20.79	0.1199
66	15	20	354000	1770	DFT-s-OFDM 64 QAM	1@1	20.64	20.79	0.1199
66	15	20	354000	1770	DFT-s-OFDM 64 QAM	1@104	20.92	21.07	0.1279
66	15	20	354000	1770	DFT-s-OFDM 256 QAM	50@25	18.66	18.81	0.0760
66	15	20	354000	1770	DFT-s-OFDM 256 QAM	1@1	18.25	18.4	0.0692
66	15	20	354000	1770	DFT-s-OFDM 256 QAM	1@104	18.46	18.61	0.0726
66	15	20	354000	1770	CP-OFDM QPSK	53@26	21.63	21.78	0.1507
66	15	20	354000	1770	CP-OFDM QPSK	1@1	21.64	21.79	0.1510
66	15	20	354000	1770	CP-OFDM QPSK	1@104	21.39	21.54	0.1426

# FR1 N71 (ANT1)

## Transmitter Conducted Output Power And ERP, (G<sub>T</sub>-L<sub>C</sub>)=-0.23dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	ERP (W)
71	15	5	133100	665.5	DFT-s-OFDM PI/2 BPSK	1@1	22.93	22.7	0.1135
71	15	5	133100	665.5	DFT-s-OFDM QPSK	1@1	22.91	22.68	0.1130
71	15	5	133100	665.5	DFT-s-OFDM 16 QAM	1@1	22.2	21.97	0.0959
71	15	5	136100	680.5	DFT-s-OFDM PI/2 BPSK	1@1	22.92	22.69	0.1132
71	15	5	136100	680.5	DFT-s-OFDM QPSK	1@1	22.96	22.73	0.1143
71	15	5	136100	680.5	DFT-s-OFDM 16 QAM	1@1	22.26	22.03	0.0973
71	15	5	139100	695.5	DFT-s-OFDM PI/2 BPSK	1@1	22.96	22.73	0.1143
71	15	5	139100	695.5	DFT-s-OFDM QPSK	1@1	22.94	22.71	0.1138
71	15	5	139100	695.5	DFT-s-OFDM 16 QAM	1@1	22.46	22.23	0.1019
71	15	10	133600	668	DFT-s-OFDM PI/2 BPSK	1@1	22.97	22.74	0.1146
71	15	10	133600	668	DFT-s-OFDM QPSK	1@1	22.94	22.71	0.1138
71	15	10	133600	668	DFT-s-OFDM 16 QAM	1@1	22.17	21.94	0.0953
71	15	10	136100	680.5	DFT-s-OFDM PI/2 BPSK	1@1	22.95	22.72	0.1140
71	15	10	136100	680.5	DFT-s-OFDM QPSK	1@1	22.98	22.75	0.1148
71	15	10	136100	680.5	DFT-s-OFDM 16 QAM	1@1	22.07	21.84	0.0931
71	15	10	138600	693	DFT-s-OFDM PI/2 BPSK	1@1	22.94	22.71	0.1138
71	15	10	138600	693	DFT-s-OFDM QPSK	1@1	22.92	22.69	0.1132
71	15	10	138600	693	DFT-s-OFDM 16 QAM	1@1	22.47	22.24	0.1021
71	15	15	134100	670.5	DFT-s-OFDM PI/2 BPSK	1@1	22.8	22.57	0.1102
71	15	15	134100	670.5	DFT-s-OFDM QPSK	1@1	22.79	22.56	0.1099
71	15	15	134100	670.5	DFT-s-OFDM 16 QAM	1@1	21.98	21.75	0.0912
71	15	15	136100	680.5	DFT-s-OFDM PI/2 BPSK	1@1	22.66	22.43	0.1067
71	15	15	136100	680.5	DFT-s-OFDM QPSK	1@1	22.73	22.5	0.1084
71	15	15	136100	680.5	DFT-s-OFDM 16 QAM	1@1	21.75	21.52	0.0865
71	15	15	138100	690.5	DFT-s-OFDM PI/2 BPSK	1@1	22.92	22.69	0.1132
71	15	15	138100	690.5	DFT-s-OFDM QPSK	1@1	22.78	22.55	0.1096
71	15	15	138100	690.5	DFT-s-OFDM 16 QAM	1@1	22.37	22.14	0.0998
71	15	20	134600	673	DFT-s-OFDM PI/2 BPSK	50@25	22.73	22.5	0.1084
71	15	20	134600	673	DFT-s-OFDM PI/2 BPSK	1@1	22.8	22.57	0.1102
71	15	20	134600	673	DFT-s-OFDM PI/2 BPSK	1@104	22.72	22.49	0.1081
71	15	20	134600	673	DFT-s-OFDM QPSK	50@25	22.75	22.52	0.1089
71	15	20	134600	673	DFT-s-OFDM QPSK	1@1	22.98	22.75	0.1148
71	15	20	134600	673	DFT-s-OFDM QPSK	1@104	22.84	22.61	0.1112
71	15	20	134600	673	DFT-s-OFDM 16 QAM	50@25	21.72	21.49	0.0859
71	15	20	134600	673	DFT-s-OFDM 16 QAM	1@1	22	21.77	0.0916
71	15	20	134600	673	DFT-s-OFDM 16 QAM	1@104	22.26	22.03	0.0973
71	15	20	134600	673	DFT-s-OFDM 64 QAM	50@25	20.25	20.02	0.0612
71	15	20	134600	673	DFT-s-OFDM 64 QAM	1@1	20.48	20.25	0.0646
71	15	20	134600	673	DFT-s-OFDM 64 QAM	1@104	20.82	20.59	0.0698

71	15	20	134600	673	DFT-s-OFDM 256 QAM	50@25	18.22	17.99	0.0384
71	15	20	134600	673	DFT-s-OFDM 256 QAM	1@1	17.95	17.72	0.0361
71	15	20	134600	673	DFT-s-OFDM 256 QAM	1@104	18.41	18.18	0.0401
71	15	20	134600	673	CP-OFDM QPSK	53@26	21.16	20.93	0.0755
71	15	20	134600	673	CP-OFDM QPSK	1@1	21.43	21.2	0.0804
71	15	20	134600	673	CP-OFDM QPSK	1@104	21.71	21.48	0.0857
71	15	20	136100	680.5	DFT-s-OFDM PI/2 BPSK	50@25	22.97	22.74	0.1146
71	15	20	136100	680.5	DFT-s-OFDM PI/2 BPSK	1@1	22.64	22.41	0.1062
71	15	20	136100	680.5	DFT-s-OFDM PI/2 BPSK	1@104	22.93	22.7	0.1135
71	15	20	136100	680.5	DFT-s-OFDM QPSK	50@25	22.96	22.73	0.1143
71	15	20	136100	680.5	DFT-s-OFDM QPSK	1@1	22.76	22.53	0.1091
71	15	20	136100	680.5	DFT-s-OFDM QPSK	1@104	22.92	22.69	0.1132
71	15	20	136100	680.5	DFT-s-OFDM 16 QAM	50@25	22.07	21.84	0.0931
71	15	20	136100	680.5	DFT-s-OFDM 16 QAM	1@1	21.75	21.52	0.0865
71	15	20	136100	680.5	DFT-s-OFDM 16 QAM	1@104	22.25	22.02	0.0971
71	15	20	136100	680.5	DFT-s-OFDM 64 QAM	50@25	20.71	20.48	0.0681
71	15	20	136100	680.5	DFT-s-OFDM 64 QAM	1@1	20.28	20.05	0.0617
71	15	20	136100	680.5	DFT-s-OFDM 64 QAM	1@104	20.77	20.54	0.0690
71	15	20	136100	680.5	DFT-s-OFDM 256 QAM	50@25	18.59	18.36	0.0418
71	15	20	136100	680.5	DFT-s-OFDM 256 QAM	1@1	17.79	17.56	0.0348
71	15	20	136100	680.5	DFT-s-OFDM 256 QAM	1@104	18.38	18.15	0.0398
71	15	20	136100	680.5	CP-OFDM QPSK	53@26	21.68	21.45	0.0851
71	15	20	136100	680.5	CP-OFDM QPSK	1@1	21.2	20.97	0.0762
71	15	20	136100	680.5	CP-OFDM QPSK	1@104	21.7	21.47	0.0855
71	15	20	137600	688	DFT-s-OFDM PI/2 BPSK	50@25	22.92	22.69	0.1132
71	15	20	137600	688	DFT-s-OFDM PI/2 BPSK	1@1	22.95	22.72	0.1140
71	15	20	137600	688	DFT-s-OFDM PI/2 BPSK	1@104	22.99	22.76	0.1151
71	15	20	137600	688	DFT-s-OFDM QPSK	50@25	22.88	22.65	0.1122
71	15	20	137600	688	DFT-s-OFDM QPSK	1@1	22.94	22.71	0.1138
71	15	20	137600	688	DFT-s-OFDM QPSK	1@104	22.87	22.64	0.1119
71	15	20	137600	688	DFT-s-OFDM 16 QAM	50@25	22.1	21.87	0.0938
71	15	20	137600	688	DFT-s-OFDM 16 QAM	1@1	22.16	21.93	0.0951
71	15	20	137600	688	DFT-s-OFDM 16 QAM	1@104	22.16	21.93	0.0951
71	15	20	137600	688	DFT-s-OFDM 64 QAM	50@25	20.64	20.41	0.0670
71	15	20	137600	688	DFT-s-OFDM 64 QAM	1@1	20.7	20.47	0.0679
71	15	20	137600	688	DFT-s-OFDM 64 QAM	1@104	20.63	20.4	0.0668
71	15	20	137600	688	DFT-s-OFDM 256 QAM	50@25	18.52	18.29	0.0411
71	15	20	137600	688	DFT-s-OFDM 256 QAM	1@1	18.24	18.01	0.0385
71	15	20	137600	688	DFT-s-OFDM 256 QAM	1@104	18.25	18.02	0.0386
71	15	20	137600	688	CP-OFDM QPSK	53@26	21.63	21.4	0.0841
71	15	20	137600	688	CP-OFDM QPSK	1@1	21.72	21.49	0.0859
71	15	20	137600	688	CP-OFDM QPSK	1@104	21.61	21.38	0.0838



# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

Test Engineer :	Chris Chen	Temperature :	23~25°C
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

EN-DC_66A_n2A / LTE 20MHz + NR 20MHz / QPSK / ANT1(LTE) & ANT6(NR)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3735	-57.74	-13	-44.74	-70.00	2.64	14.90	H
	5610	-55.40	-13	-42.40	-67.26	2.94	14.80	H
	7485	-52.49	-13	-39.49	-62.26	3.39	13.16	H
	3735	-56.08	-13	-43.08	-68.34	2.64	14.90	V
	5610	-56.02	-13	-43.02	-67.88	2.94	14.80	V
	7485	-52.61	-13	-39.61	-62.38	3.39	13.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

SA n5 / NR 20MHz / QPSK / ANT1								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1656	-66.77	-13	-53.77	-73.74	1.58	10.70	H
	2480	-67.60	-13	-54.60	-75.85	2.102	12.50	H
	3312	-68.00	-13	-55.00	-76.89	2.856	13.90	H
	1656	-69.95	-13	-56.95	-76.92	1.58	10.70	V
	2480	-68.04	-13	-55.04	-76.29	2.10	12.50	V
	3312	-68.28	-13	-55.28	-77.17	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



SA n25 / NR 20MHz / QPSK / ANT1								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3750	-66.63	-13	-53.63	-78.89	2.64	14.90	H
	5625	-48.82	-13	-35.82	-60.68	2.94	14.80	H
	7500	-58.10	-13	-45.10	-67.87	3.39	13.16	H
	3750	-67.38	-13	-54.38	-79.64	2.64	14.90	V
	5625	-54.98	-13	-41.98	-66.84	2.94	14.80	V
	7500	-58.18	-13	-45.18	-67.95	3.39	13.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

SA n41 / NR 100MHz / QPSK / ANT2								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5092	-57.12	-25	-32.12	-67.33	3.03	13.24	H
	7640	-51.46	-25	-26.46	-60.91	3.56	13.01	H
	10188	-51.97	-25	-26.97	-61.49	3.92	13.44	H
	5092	-60.63	-25	-35.63	-70.84	3.03	13.24	V
	7640	-55.82	-25	-30.82	-65.27	3.56	13.01	V
	10188	-52.01	-25	-27.01	-61.53	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC 2A_n41A / LTE 20MHz + NR 100MHz / QPSK / ANT1(LTE) & ANT2(NR)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5092	-60.51	-25	-35.51	-70.72	3.03	13.24	H
	7640	-56.53	-25	-31.53	-65.98	3.56	13.01	H
	10188	-52.19	-25	-27.19	-61.71	3.92	13.44	H
	5092	-60.75	-25	-35.75	-70.96	3.03	13.24	V
	7640	-57.00	-25	-32.00	-66.45	3.56	13.01	V
	10188	-52.47	-25	-27.47	-61.99	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



SA n66 / NR 20MHz / QPSK / ANT1								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465	-65.69	-13	-52.69	-76.43	2.604	13.34	H
	5205	-50.66	-13	-37.66	-61.17	3.011	13.52	H
	6945	-58.54	-13	-45.54	-68.74	3.271	13.47	H
	3465	-67.53	-13	-54.53	-78.27	2.604	13.34	V
	5205	-42.66	-13	-29.66	-53.17	3.011	13.52	V
	6945	-59.08	-13	-46.08	-69.28	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

SA n71 / NR 20MHz / QPSK / ANT1								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1344	-75.48	-25	-50.48	-85.69	3.03	13.24	H
	2016	-70.99	-25	-45.99	-80.44	3.56	13.01	H
	2688	-69.51	-25	-44.51	-79.03	3.92	13.44	H
	1344	-74.93	-25	-49.93	-85.14	3.03	13.24	V
	2016	-70.22	-25	-45.22	-79.67	3.56	13.01	V
	2688	-69.19	-25	-44.19	-78.71	3.92	13.44	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.