



# FCC RF Test Report

**APPLICANT** : Inseego Corp.  
**EQUIPMENT** : wireless device  
**BRAND NAME** : Inseego  
**MODEL NAME** : FX2000-3, FX2000e-3  
**FCC ID** : PKRISGFX20003  
**STANDARD** : 47 CFR Part 2, 270  
**CLASSIFICATION** : PCS Licensed Transmitter (PCB)  
**TEST DATE(S)** : Mar. 08, 2022

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.

This product installed a RF module (Brand Name: Inseego, Model Name: MD2000, FCC ID: PKRISGMD2000) during the test, only EIRP and RSE test items are tested in this report, all the other test results are leveraged from module RF report.

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.

Reviewed by: Jason Jia / Supervisor

Approved by: Alex Wang / Manager



**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
FG221525	Rev. 01	Initial issue of report	Mar. 17, 2022



## SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77)	EIRP < 1Watt		
3.5	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	1
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	1
3.7	§2.1051	Conducted Band Edge Measurement (5G NR n77)	< 43+10log10(P[Watts])	PASS	1
	§27.53(l)(2)				
3.8	§2.1051	Conducted Spurious Emission (5G NR n77)	< 43+10log10(P[Watts])	PASS	1
	§27.53(l)(2)				
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	1
4.4	§2.1053 §27.53(l)(2)	Radiated Spurious Emission (5G NR n77)	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 45.45 dB at 7584.000 MHz

**Remark 1:**

All test results were leveraged from module RF report which can refer to Report No. FG090125-05.

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



# 1 General Description

## 1.1 Applicant

Inseego Corp.  
9710 Scranton Road, Suite 200 San Diego, CA 92121

## 1.2 Manufacturer

MeiG Smart Technology Co., Ltd  
Floor 2, Office Building No.5, Lingxia Road, Fenghuang Community, Fuyong Street, Bao 'an District, Shenzhen

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	wireless device
Brand Name	Inseego
Model Name	FX2000-3, FX2000e-3
FCC ID	PKRISGFX20003
HW Version	Rev1
SW Version	2.52
EUT Stage	Identical Prototype

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz
Rx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz
SCS	30kHz
Bandwidth	n77: 20MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz
Antenna Gain	5G NR n77: 3.4 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

**Remark:**

1. Verify that the power is less than the module power, so the module power is used when calculating ERP/EIRP in this report.
2. The EN-DC mode combinations, DC\_2A\_n77A, DC\_5A\_n77A, DC\_12A\_n77A, DC\_13A\_n77A, DC\_14\_n77A, DC\_30A\_n77A, DC\_66A\_n77A.

## 1.5 Modification of EUT

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



## 1.6 Maximum EIRP Power and Emission Designator

5G NR n77		PI/2 BPSK / QPSK	16QAM / 64QAM / 256QAM
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Maximum EIRP(W)
100	3750.00 ~ 3930.00	0.5470	0.4446

**Note:**

1. The power/EIRP details refer to Appendix A.
2. According to engineering evaluation, only the maximum bandwidth and 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 FAX : +86-512-57900958		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH02-KS TH01-KS	CN1257	314309

## 1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-KS	AUDIX	E3	6.2009-8-24a

## 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, 270
- 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.

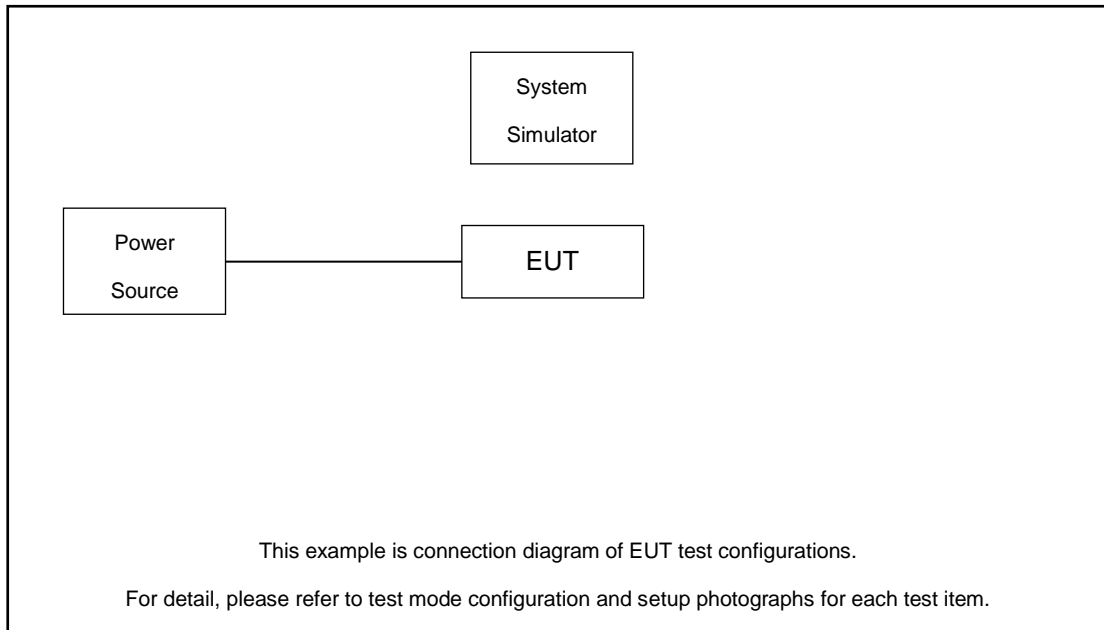
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

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			
		20	40	50	60	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H	
Max. Output Power	n77	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
E.I.R.P	n77	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n77	Worst Case																v	
Note	1. The mark "v " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. 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.																		

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

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





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

5G n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99

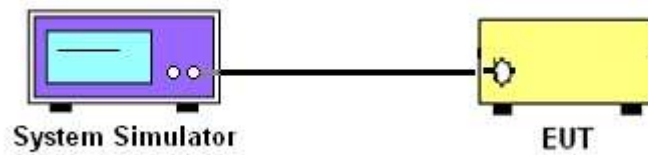
### 3 Conducted Test Items

#### 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 EIRP

#### 3.4.1 Description of the Conducted Output Power Measurement and 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 EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77.

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.

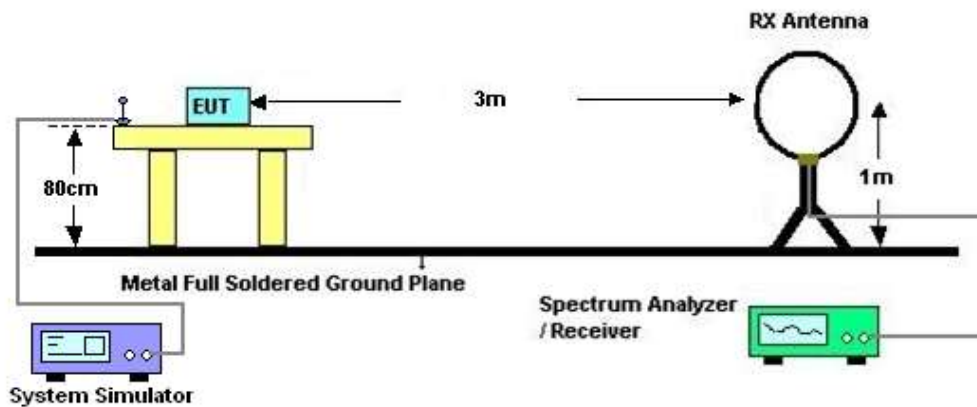
## 4 Radiated Test Items

### 4.1 Measuring Instruments

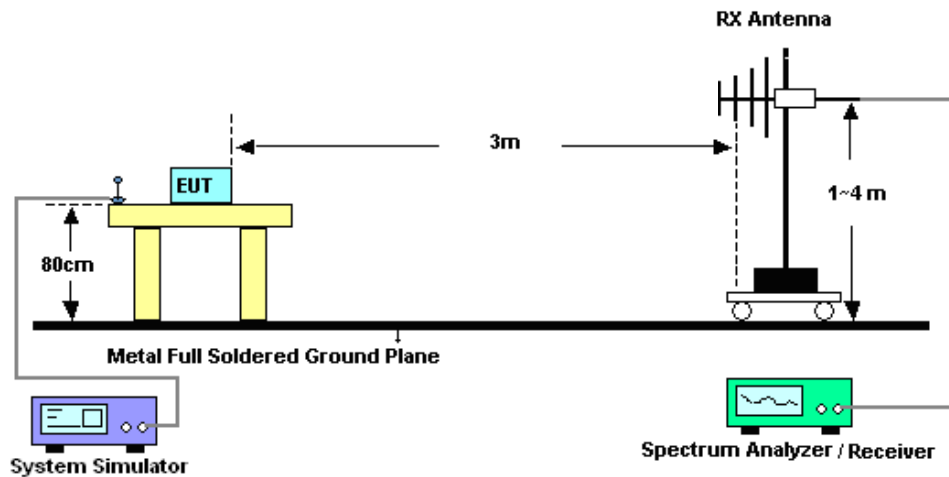
See list of measuring instruments of this test report.

### 4.2 Test Setup

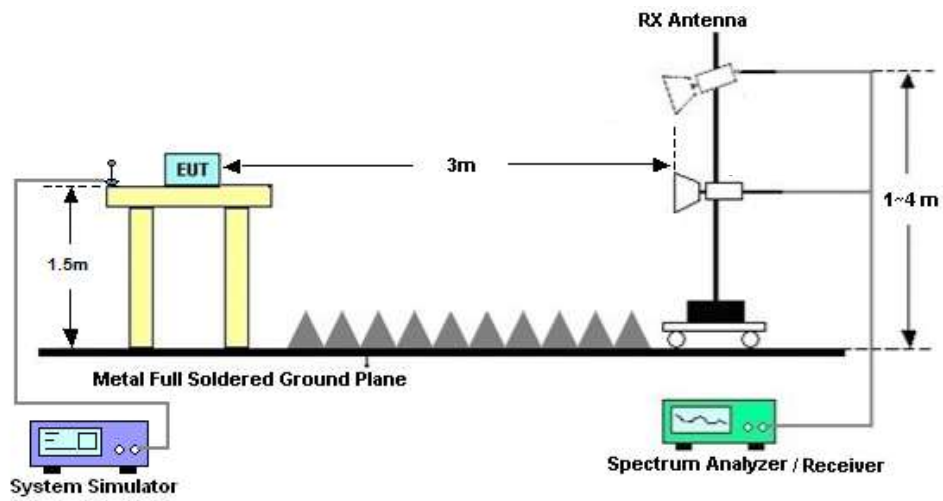
#### 4.2.1 For radiated test below 30MHz



#### 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.

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.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11.  $ERP \text{ (dBm)} = EIRP - 2.15$
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)  
=  $P(W) - [43 + 10\log(P)] \text{ (dB)}$   
=  $[30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
= -13dBm.



## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Mar. 08, 2022	Oct. 13, 2022	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 26, 2021	Mar. 08, 2022	Aug. 25, 2022	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 16, 2021	Mar. 08, 2022	Oct. 15, 2022	Radiation (03CH02-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Mar. 08, 2022	Oct. 29, 2022	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 22, 2021	Mar. 08, 2022	Dec. 21, 2022	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 30, 2021	Mar. 08, 2022	Oct. 29, 2022	Radiation (03CH02-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jul. 30, 2021	Mar. 08, 2022	Jul. 29, 2022	Radiation (03CH02-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2022	Mar. 08, 2022	Jan. 04, 2023	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Apr. 13, 2021	Mar. 08, 2022	Apr. 12, 2022	Radiation (03CH02-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5GHz	Oct. 16, 2021	Mar. 08, 2022	Oct. 15, 2022	Radiation (03CH02-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2022	Mar. 08, 2022	Jan. 04, 2023	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Mar. 08, 2022	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Mar. 08, 2022	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Mar. 08, 2022	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required



## 6 Uncertainty of Evaluation

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 Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.1dB
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----- THE END -----





## Appendix A. Test Results of Conducted Test

Test Engineer :	Lex Wu	Temperature :	21~24°C
		Relative Humidity :	45~51%

### Conducted Output Power(Average power) and EIRP

Ant 4

5G NR n77:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Gain	EIRP		
								L	M	H
Channel				650000	656000	662000				
Frequency (MHz)				3750	3840	3930				
100	PI/2 BPSK	1	1	22.90	23.11	23.64	3.4	0.4266	0.4477	0.5058
100	PI/2 BPSK	1	271	23.41	23.82	23.82	3.4	0.4797	0.5272	0.5272
100	PI/2 BPSK	135	67	23.14	23.64	23.98	3.4	0.4508	0.5058	0.5470
100	PI/2 BPSK	1	0	19.38	19.56	20.27	3.4	0.1897	0.1977	0.2328
100	PI/2 BPSK	1	272	19.86	20.72	20.24	3.4	0.2118	0.2582	0.2312
100	PI/2 BPSK	270	0	22.71	23.13	23.32	3.4	0.4083	0.4498	0.4699
100	QPSK	1	1	22.81	23.04	23.76	3.4	0.4178	0.4406	0.5200
100	QPSK	1	271	23.30	23.74	23.73	3.4	0.4677	0.5176	0.5164
100	QPSK	135	67	23.17	23.65	23.95	3.4	0.4539	0.5070	0.5433
100	QPSK	1	0	19.33	19.56	20.20	3.4	0.1875	0.1977	0.2291
100	QPSK	1	272	19.84	20.68	20.25	3.4	0.2109	0.2559	0.2317
100	QPSK	270	0	22.24	22.64	22.82	3.4	0.3664	0.4018	0.4188
100	16QAM	1	1	21.79	22.12	23.08	3.4	0.3304	0.3565	0.4446
100	64QAM	1	1	20.31	20.68	21.67	3.4	0.2350	0.2559	0.3214
100	256QAM	1	1	18.50	18.49	19.48	3.4	0.1549	0.1545	0.1941
Channel				649668	656000	662334	Gain	L	M	H
Frequency (MHz)				3745.02	3840	3935.01				
90	PI/2 BPSK	1	1	22.82	23.03	23.82	3.4	0.4188	0.4395	0.5272
Channel				649334	656000	662668	Gain	L	M	H
Frequency (MHz)				3740.01	3840	3940.02				
80	PI/2 BPSK	1	1	22.84	23.10	23.94	3.4	0.4207	0.4467	0.5420
Channel				648668	656000	663334	Gain	L	M	H
Frequency (MHz)				3730.02	3840	3950.01				
60	PI/2 BPSK	1	1	22.84	23.22	23.90	3.4	0.4207	0.4592	0.5370
Channel				648334	656000	663668	Gain	L	M	H
Frequency (MHz)				3725.01	3840	3955.02				
50	PI/2 BPSK	1	1	22.64	23.21	23.70	3.4	0.4018	0.4581	0.5129
Channel				648000	656000	664000	Gain	L	M	H
Frequency (MHz)				3720	3840	3960				
40	PI/2 BPSK	1	1	23.22	23.75	23.72	3.4	0.4592	0.5188	0.5152
Channel				647334	656000	664668	Gain	L	M	H
Frequency (MHz)				3710.01	3840	3970.02				
20	PI/2 BPSK	1	1	22.92	23.56	23.51	3.4	0.4285	0.4966	0.4909



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

Test Engineer :	Chris Chen	Temperature :	22~23°C
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for testing, we choose the worst antenna mode to test.

SA n77 / 100MHz / QPSK / ANT4								
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	7584	-60.10	-13	-47.10	-70.58	2.76	13.24	H
	11388	-60.72	-13	-47.72	-70.31	3.42	13.01	H
	15180	-59.82	-13	-46.82	-69.43	3.83	13.44	H
	7584	-61.00	-13	-48.00	-71.44	2.80	13.24	V
	11388	-60.53	-13	-47.53	-70.08	3.46	13.01	V
	15180	-60.17	-13	-47.17	-69.73	3.88	13.44	V

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

EN-DC_2A_n77A / LTE 20MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT4(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	7596	-62.96	-13	-49.96	-73.44	2.76	13.24	H
	11388	-60.59	-13	-47.59	-70.18	3.42	13.01	H
	15180	-60.30	-13	-47.30	-69.91	3.83	13.44	H
	7596	-62.95	-13	-49.95	-73.39	2.80	13.24	V
	11388	-60.68	-13	-47.68	-70.23	3.46	13.01	V
	15180	-60.20	-13	-47.20	-69.76	3.88	13.44	V

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

EN-DC_5A_n77A / LTE 10MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT4(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	7584	-60.87	-13	-47.87	-71.35	2.76	13.24	H
	11388	-60.50	-13	-47.50	-70.09	3.42	13.01	H
	15180	-60.26	-13	-47.26	-69.87	3.83	13.44	H
	7584	-58.78	-13	-45.78	-69.22	2.80	13.24	V
	11388	-59.66	-13	-46.66	-69.21	3.46	13.01	V
	15180	-59.40	-13	-46.40	-68.96	3.88	13.44	V

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



EN-DC_12A_n77A / LTE 10MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT4(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	7596	-62.40	-13	-49.40	-72.88	2.76	13.24	H
	11388	-60.67	-13	-47.67	-70.26	3.42	13.01	H
	15180	-60.50	-13	-47.50	-70.11	3.83	13.44	H
	7596	-62.89	-13	-49.89	-73.33	2.80	13.24	V
	11388	-60.50	-13	-47.50	-70.05	3.46	13.01	V
	15180	-60.20	-13	-47.20	-69.76	3.88	13.44	V

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

EN-DC_13A_n77A / LTE 10MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT4(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	7584	-58.81	-13	-45.81	-69.29	2.76	13.24	H
	11388	-60.42	-13	-47.42	-70.01	3.42	13.01	H
	15180	-59.84	-13	-46.84	-69.45	3.83	13.44	H
	7584	-59.27	-13	-46.27	-69.71	2.80	13.24	V
	11388	-60.82	-13	-47.82	-70.37	3.46	13.01	V
	15180	-60.09	-13	-47.09	-69.65	3.88	13.44	V

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

EN-DC_14A_n77A / LTE 10MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT4(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	7596	-59.05	-13	-46.05	-69.53	2.76	13.24	H
	11388	-59.90	-13	-46.90	-69.49	3.42	13.01	H
	15180	-60.33	-13	-47.33	-69.94	3.83	13.44	H
	7596	-60.80	-13	-47.80	-71.24	2.80	13.24	V
	11388	-60.55	-13	-47.55	-70.10	3.46	13.01	V
	15180	-59.54	-13	-46.54	-69.10	3.88	13.44	V

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



EN-DC_30A_n77A / LTE 10MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT4(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	7596	-61.28	-13	-48.28	-71.76	2.76	13.24	H
	11388	-60.69	-13	-47.69	-70.28	3.42	13.01	H
	15180	-60.45	-13	-47.45	-70.06	3.83	13.44	H
	7596	-61.13	-13	-48.13	-71.57	2.80	13.24	V
	11388	-60.32	-13	-47.32	-69.87	3.46	13.01	V
	15180	-59.99	-13	-46.99	-69.55	3.88	13.44	V

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

EN-DC_66A_n77A / LTE 20MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT4(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	7584	-58.79	-13	-45.79	-69.27	2.76	13.24	H
	11388	-60.38	-13	-47.38	-69.97	3.42	13.01	H
	15180	-59.44	-13	-46.44	-69.05	3.83	13.44	H
	7584	-58.45	-13	-45.45	-68.89	2.80	13.24	V
	11388	-60.06	-13	-47.06	-69.61	3.46	13.01	V
	15180	-59.68	-13	-46.68	-69.24	3.88	13.44	V

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