



# RF TEST REPORT



Report No.: FCC\_RF\_SL18071903-SPC-006-LTE  
Supersede Report No.:

Applicant	SpiderCloud Wireless, Inc.		
Product Name	SpiderCloud RadioNode		
Model No.	SCRN-320-0246-EQ		
Test Standard	47CFR Part27		
Test Method	TIA-603-E: 2016		
FCC ID	Y47RN320B246		
Date of test	08/24/2018		
Issue Date	08/27/2018		
Test Result	<u>Pass</u>	Fail	
Equipment complied with the specification	[ x ]		
Equipment did not comply with the specification	[ ]		
			
Rachana Khanduri		Chen Ge	
Test Engineer		Engineering Reviewer	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only			

Issued By:  
SIEMIC Laboratories  
775 Montague Expressway, Milpitas, 95035 CA



775 Montague Expressway, Milpitas, CA 95035, USA • Phone: (+1) 408 526 1188 • Facsimile (+1) 408 526 1088

Visit us at: [www.siemic.com](http://www.siemic.com); Follow us at:



## Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC, RF/Wireless, Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless, Telecom
Taiwan	BSMI, NCC, NIST	EMC, RF, Telecom, Safety
Hong Kong	OFTA, NIST	RF/Wireless, Telecom
Australia	NATA, NIST	EMC, RF, Telecom, Safety
Korea	KCC/RRA, NIST	EMI, EMS, RF, Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC, RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom, Safety
Israel	MOC, NIST	EMC, RF, Telecom, Safety

### Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC, RF, Telecom
Canada	IC FCB, NIST	EMC, RF, Telecom
Singapore	iDA, NIST	EMC, RF, Telecom
EU	NB	EMC & Radio Equipment Directive (RED)
Japan	MIC (RCB 208)	RF, Telecom
HongKong	OFTA (US002)	RF, Telecom

## CONTENTS

<b>1</b>	<b>REPORT REVISION HISTORY .....</b>	<b>4</b>
<b>2</b>	<b>EXECUTIVE SUMMARY .....</b>	<b>5</b>
<b>3</b>	<b>CUSTOMER INFORMATION .....</b>	<b>5</b>
<b>4</b>	<b>TEST SITE INFORMATION .....</b>	<b>5</b>
<b>5</b>	<b>MODIFICATION .....</b>	<b>5</b>
<b>6</b>	<b>EUT INFORMATION .....</b>	<b>6</b>
6.1	EUT Description .....	6
6.2	Radio Description .....	6
6.3	EUT test modes/configuration Description.....	7
<b>7</b>	<b>SUPPORTING EQUIPMENT/SOFTWARE AND CABLING DESCRIPTION.....</b>	<b>8</b>
7.1	Supporting Equipment .....	8
7.2	Cabling Description .....	8
7.3	Test Software Description .....	8
<b>8</b>	<b>TEST SUMMARY .....</b>	<b>9</b>
<b>9</b>	<b>MEASUREMENT UNCERTAINTY .....</b>	<b>10</b>
9.1	Conducted Emissions .....	10
9.2	Radiated Emissions (30MHz to 1GHz).....	10
9.3	Radiated Emissions (1GHz to 40GHz).....	11
9.4	RF conducted measurement.....	11
<b>10</b>	<b>MEASUREMENTS, EXAMINATION AND DERIVED RESULTS .....</b>	<b>12</b>
10.1	Radiated Spurious Emission below 1GHz.....	12
10.2	Radiated Spurious Emissions above 1GHz.....	14
<b>ANNEX A. TEST INSTRUMENT .....</b>		<b>16</b>
<b>ANNEX B. SIEMIC ACCREDITATION .....</b>		<b>17</b>

## 1 Report Revision History

Report No.	Report Version	Description	Issue Date
FCC_RF_SL18071903-SPC-006-LTE	None	Original	08/27/2018

## 2 Executive Summary

The purpose of this test program was to demonstrate compliance of following product

Company: SpiderCloud Wireless, Inc.  
Product: SpiderCloud RadioNode  
Model: SCRN-320-0246-EQ

against the current Stipulated Standards. The specified model product stated above has demonstrated compliance with the Stipulated Standard listed on 1<sup>st</sup> page.

## 3 Customer information

Applicant Name	SpiderCloud Wireless
Applicant Address	475 Sycamore Dr, Milpitas, CA, 95035, USA
Manufacturer Name	Sanmina-SCI Systems de Mexico SA de CV
Manufacturer Address	Carretera Chapala-Guadalajara 45640 Tlajomulco de Zuniga, Jalisco, Mexico

## 4 Test site information

Lab performing tests	SIEMIC Laboratories
Lab Address	775 Montague Expressway, Milpitas, CA 95035
FCC Test Site No.	881796
IC Test Site No.	4842D-2
VCCI Test Site No.	A0133

## 5 Modification

Index	Item	Description	Note
-	-	-	-

## 6 EUT Information

### 6.1 EUT Description

Product Name	SpiderCloud RadioNode
Model No.	SCRN-320-0246-EQ
Trade Name	SpiderCloud
Serial No.	18169S03643
Input Power	56VDC (PoE)
Power Adapter Manu/Model	POE36U-1AT-R (PoE)
Power Adapter SN	N/A
Date of EUT received	08/14/2018
Equipment Class/ Category	PCB, TNB
Operating Frequencies	LTE: TX (1930 MHz to 1995 MHz), RX (1850 MHz to 1915 MHz)
Port/Connectors	PoE, Ethernet
Remark	NONE

### 6.2 Radio Description

Item	LTE
Operating Band /Radio Type	LTE Band 2
Bandwidth	5MHz, 10MHz, 15MHz, 20MHz
Modulation	QPSK/16QAM/64QAM
Antenna Type	External Dipole antenna
Antenna Gain	4 dBi
Frequency TX(MHz)	TX: 1930 MHz to 1990 MHz RX: 1850 MHz to 1910 MHz

## Test mode

[illegible]

## 7 Supporting Equipment/Software and cabling Description

### 7.1 Supporting Equipment

Item	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
1	10MHz Clock	OX200-SC	140851586710	Metric Test	-
2	POE	POE36U-1AT-R	N/A	PHIHONG	-

### 7.2 Cabling Description

Name	Connection Start		Connection Stop		Length / shielding Info		Note
	From	I/O Port	To	I/O Port	Length (m)	Shielding	
RJ45	EUT	RJ45	POE	RJ45	2	Unshielded	-
RJ45	POE	RJ45	Laptop	RJ45	3	Unshielded	-

### 7.3 Test Software Description

Test Item	Software	Description
RF testing	TMciDvtClient	Enable EUT continuous TX mode and change to different channel



## 8 Test Summary

Test Item	Test standard		Test Method/Procedure		Pass / Fail
E.R.P/ E.I.R.P	FCC	47CFR27.50	FCC	TIA-603-E: 2016	<input checked="" type="checkbox"/> Pass* <input type="checkbox"/> N/A
Occupied Bandwidth	FCC	47CFR27.53	FCC	TIA-603-E: 2016	<input checked="" type="checkbox"/> Pass* <input type="checkbox"/> N/A
Peak-Average Ratio	FCC	47CFR27.50	FCC	TIA-603-E: 2016	<input checked="" type="checkbox"/> Pass* <input type="checkbox"/> N/A
Spurious and harmonic Emission at antenna port	FCC	47CFR2.1051, 47CFR27.53	FCC	TIA-603-E: 2016	<input checked="" type="checkbox"/> Pass* <input type="checkbox"/> N/A
Band Edge	FCC	47CFR2.1053, 47CFR27.53	FCC	TIA-603-E: 2016	<input checked="" type="checkbox"/> Pass* <input type="checkbox"/> N/A
Radiated spurious and harmonic emission	FCC	47CFR2.1053, 47CFR27.53	FCC	TIA-603-E: 2016	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> N/A
Frequency stability	FCC	47CFR2.1053, 47CFR27.53	FCC	TIA-603-E: 2016	<input checked="" type="checkbox"/> Pass* <input type="checkbox"/> N/A
Remark	<ol style="list-style-type: none"> <li>All measurement uncertainties do not take into consideration for all presented test results.</li> <li>The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual.</li> <li>Pass*: Please refer to FCC report FCC_RF_SL18040301-SPC-002_Rev1.0.</li> </ol>				

## 9 Measurement Uncertainty

### 9.1 Conducted Emissions

The test is to measure the conducted emissions to the mains port of the EUT.

Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the LISN
- Uncertainty of cables
- Uncertainty due to the mismatches
- Etc, see the below table for details

Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105
Filter Insertion Loss	0.25	Normal	2	1	0.125
LISN Insertion Loss	0.40	Normal	2	1	0.20
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.86605081
PRF Response	1.5	Rectangular	1.732	1	0.86605081
Mismatch LISN - Receiver	0.25	U-Shape	1.414	1	0.1768033
LISN Impedance	2.5	Triangular	2.449	1	1.0208248
Combined Standard Uncertainty					1.928133
<b>Expanded Uncertainty (K=2)</b>					<b>3.856266</b>

The total derived measurement uncertainty is +/- 3.86 dB.

### 9.2 Radiated Emissions (30MHz to 1GHz)

The test is to measure the radiated emissions of the EUT.

Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the antenna
- Uncertainty of cables
- Uncertainty due to the mismatches
- NSA Calibration
- Etc., details see the below table

Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105
Filter Insertion Loss	0.25	Normal	2	1	0.125
Antenna Factor	0.65	Normal	2	1	0.325
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.86605081
PRF Response	1.5	Rectangular	1.732	1	0.86605081
Mismatch Filter - Receiver	0.25	U-Shape	1.414	1	0.1768033
NSA Calibration	4.0	U-Shape	1.414	1	2.8288543
Combined Standard Uncertainty					3.0059131
<b>Expanded Uncertainty (K=2)</b>					<b>6.0118262</b>

The total derived measurement uncertainty is +/- 6.00 dB.

### 9.3 Radiated Emissions (1GHz to 40GHz)

The test is to measure the radiated emissions of the EUT.

Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the antenna
- Uncertainty of cables
- Uncertainty due to the mismatches
- VSWR Calibration
- Etc., details see the below table

Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.0692840
Cable Insertion Loss	0.21	Normal	2	1	0.1050000
Filter Insertion Loss	0.25	Normal	2	1	0.1250000
Antenna Factor	0.65	Normal	2	1	0.3250000
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.8660508
PRF Response	1.5	Rectangular	1.732	1	0.8660508
Mismatch Filter - Receiver	0.25	U-Shape	1.414	1	0.1768033
VSWR Calibration	2.0	U-Shape	1.414	1	1.4144272
Combined Standard Uncertainty					4.2363
<b>Expanded Uncertainty (K=2)</b>					<b>8.4726</b>

The total derived measurement uncertainty is +/- 8.47 dB.

### 9.4 RF conducted measurement

The test is to measure the RF output power from the EUT.

Some error sources that can contribute to the total uncertainty:

- Uncertainty of the Reference Level Uncertainty
- Uncertainty of variable attenuators
- Uncertainty of cables
- Uncertainty due to the mismatches

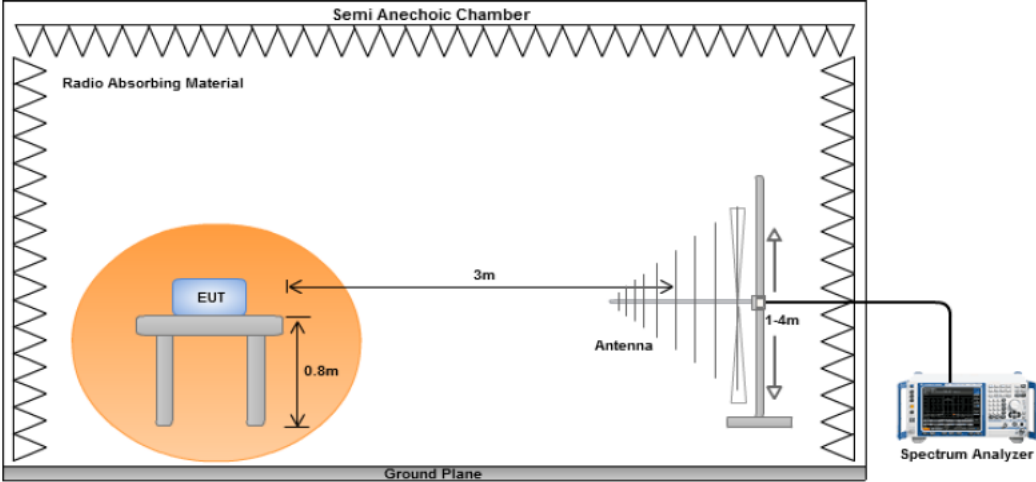
Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Reference Level	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105
Attenuator	0.25	Normal	2	1	0.125
Mismatch	0.25	U-Shape	1.414	1	0.1768033
Combined Standard Uncertainty					0.476087
<b>Expanded Uncertainty (K=2)</b>					<b>0.952174</b>

The total derived measurement uncertainty is +/- 0.95 dB.

## 10 Measurements, Examination and Derived Results

### 10.1 Radiated Spurious Emission below 1GHz

#### Requirement(s):

Spec	Item	Requirement	Applicable
47CFR27.53	-	Out of band emissions. 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.	<input checked="" type="checkbox"/>
Test Setup			
Test Procedure	<p><u>Substitution method:</u></p> <ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> <li>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>Remove the transmitter and replace it with a substitution antenna (the antenna should be half-wavelength for each frequency involved). The center of the substitution antenna should be approximately at the same location as the center of the transmitter.</li> <li>Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained.</li> <li>Steps 4 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol>		
Test Date	08/24/2018	Environmental condition	Temperature 21°C Relative Humidity 44% Atmospheric Pressure 1011mbar
Remark	<p>The EUT was scanned up to 25GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.</p> <p>Limit calculation:  <math>\text{Emission limit} = \text{Pd} - [43 + 10 \log(\text{PW})] = 10 \log(1000 \times \text{PW}) - 43 - 10 \log(\text{PW}) = 30 \text{ dBm} - 43 = -13 \text{ dBm}</math></p> <p>All different modulation and bandwidth configuration has been verified and only the test data of worst case with QPSK modulation and greatest bandwidth was presented in this report.</p>		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data ☒ Yes (See below)      ☐ N/A

Test Plot ☒ Yes (See below)      ☐ N/A

Test was done by **Chen Ge** at 10m chamber.

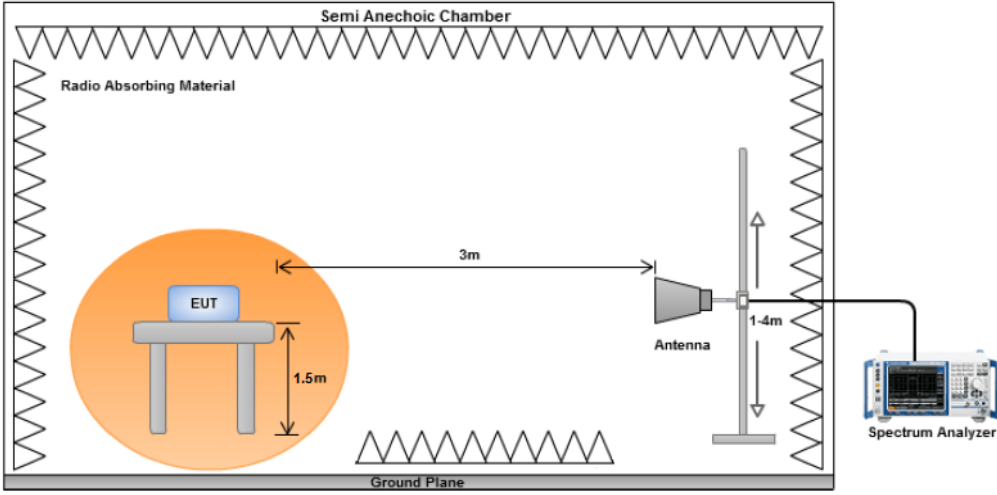
## Radiated Emission Test Results for LTE band 2

Frequency MHz	SG Level dBm	Cable Loss dB	Antenna Gain dBd	Substituted Level dBm	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBm	Margin dB	Pass /Fail
244.65	-47.94	0.17	0	-48.11	RMS Max	H	146	215	-13	-35.11	Pass
388.4	-53.78	0.18	0	-53.96	RMS Max	V	100	360	-13	-40.96	Pass
448.48	-52.79	0.2	0	-52.99	RMS Max	H	244	99	-13	-39.99	Pass
413.25	-52.48	0.2	0	-52.68	RMS Max	V	110	185	-13	-39.68	Pass
534.1	-54.7	0.21	0	-54.91	RMS Max	V	100	184	-13	-41.91	Pass
765.58	-48.67	0.28	0	-48.95	RMS Max	V	142	244	-13	-35.95	Pass

Note: Dipole antenna was used for substitution method.

## 10.2 Radiated Spurious Emissions above 1GHz

### Requirement(s):

Spec	Item	Requirement	Applicable
47CFR27.53	-	Out of band emissions. 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.	<input checked="" type="checkbox"/>
Test Setup			
Test Procedure	<p><u>Substitution method:</u></p> <ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> <li>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>Remove the transmitter and replace it with a substitution antenna (the antenna should be half-wavelength for each frequency involved). The center of the substitution antenna should be approximately at the same location as the center of the transmitter.</li> <li>Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained.</li> <li>Steps 4 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol>		
Test Date	08/24/2018	Environmental condition	Temperature 21°C Relative Humidity 44% Atmospheric Pressure 1011mbar
Remark	<p>The EUT was scanned up to 25GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.</p> <p>Limit calculation:  <math>\text{Emission limit} = \text{Pd} - [43 + 10 \log(\text{PW})] = 10 \log(1000 \times \text{PW}) - 43 - 10 \log(\text{PW}) = 30 \text{ dBm} - 43 = -13 \text{ dBm}</math></p> <p>All different modulation and bandwidth configuration has been verified and only the test data of worst case with QPSK modulation and greatest bandwidth was presented in this report.</p>		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data    ☒ Yes (See below)      ☐ N/A

Test Plot    ☐ Yes (See below)      ☒ N/A

Test was done by Rachana Khanduri at 10m chamber.

## Radiated Emission Test Results (Above 1GHz)

LTE band 2 Low Channel, 20MHz BW, QPSK

Frequency MHz	SG Level dBm	Cable Loss dB	Antenna Gain dBd	Substituted Level dBm	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBm	Margin dB	Pass /Fail
3880.37	-50.33	1.34	10.77	-40.9	Average Max	V	150	154	-13	-27.9	Pass
5819.89	-51.58	2.12	12.35	-41.35	Average Max	V	154	321	-13	-28.35	Pass
7758.99	-55.16	3.28	11.23	-47.21	Average Max	H	155	249	-13	-34.21	Pass

LTE band 2 Mid Channel, 20MHz BW, QPSK

Frequency MHz	SG Level dBm	Cable Loss dB	Antenna Gain dBd	Substituted Level dBm	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBm	Margin dB	Pass /Fail
3920.07	-51.35	1.35	10.78	-41.92	Average Max	V	150	254	-13	-28.92	Pass
5881.11	-52.49	2.12	11.83	-42.78	Average Max	V	165	244	-13	-29.78	Pass
7838.86	-50.25	3.42	10.92	-42.75	Average Max	V	149	198	-13	-29.75	Pass

LTE band 2 High Channel, 20MHz BW, QPSK

Frequency MHz	SG Level dBm	Cable Loss dB	Antenna Gain dBd	Substituted Level dBm	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBm	Margin dB	Pass /Fail
3961.35	-53.15	1.35	10.04	-44.46	Average Max	V	155	149	-13	-31.46	Pass
5928.79	-48.46	2.14	11.81	-38.79	Average Max	V	149	249	-13	-25.79	Pass
7920.43	-47.45	3.43	11.04	-39.84	Average Max	V	166	114	-13	-26.84	Pass
















Note: Only worst case was tested, which is 20MHz.








## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
<b>Radiated Emissions</b>						
Keysight EXA 44GHz Spectrum Analyzer	N9030B(PXA)	MY57140374	09/06/2017	1 Year	09/06/2018	<input checked="" type="checkbox"/>
Keysight Signal Generator	MXG N5182A	MY47071065	07/12/2018	1 Year	07/12/2019	<input checked="" type="checkbox"/>
Pre-Amplifier (1-26.5GHz)	8449B	3008A00715	08/16/2018	1 Year	08/16/2019	<input checked="" type="checkbox"/>
RF Preamplifier (100KHz-7GHz)	LPA-6-30	11170602	05/09/2018	1 Year	05/09/2019	<input checked="" type="checkbox"/>
Bi-Log antenna (30MHz~2GHz)	JB1	A030702	03/09/2018	2 Year	03/09/2020	<input checked="" type="checkbox"/>
Horn Antenna (1GHz~26GHz)	3115	100059	11/09/2017	1 Year	11/09/2018	<input checked="" type="checkbox"/>
Horn Antenna (700MHz-18GHz)	SAS-571	411	05/13/2018	1 Year	05/13/2019	<input checked="" type="checkbox"/>
Tuned Dipole Antenna 30 - 1000 MHz (4pcs set)	AD-100	40133	10/02/2017	1 Year	10/02/2018	<input checked="" type="checkbox"/>



## Annex B. SIEMIC Accreditation

Accreditations	Document	Scope / Remark
ISO 17025 (A2LA)		Please see the documents for the detailed scope
ISO Guide 65 (A2LA)		Please see the documents for the detailed scope
TCB Designation		A1, A2, A3, A4, B1, B2, B3, B4, C
FCC DoC Accreditation		FCC Declaration of Conformity Accreditation
FCC Site Registration		3 meter site
FCC Site Registration		10 meter site
IC Site Registration		3 meter site
IC Site Registration		10 meter site
EU NB		<b>Radio &amp; Telecommunications Terminal Equipment:</b> EN45001 – EN ISO/IEC 17025
		<b>Electromagnetic Compatibility:</b> EN45001 – EN ISO/IEC 17025
Singapore iDA CB(Certification Body)		Phase I, Phase II
Vietnam MIC CAB Accreditation		Please see the document for the detailed scope
HongKong OFCA		(Phase II) OFCA Foreign Certification Body for Radio and Telecom
		(Phase I) Conformity Assessment Body for Radio and Telecom
Industry Canada CAB		<b>Radio:</b> Scope A – All Radio Standard Specification in Category I
		<b>Telecom:</b> CS-03 Part I, II, V, VI, VII, VIII

Japan Recognized Certification Body Designation		<p><b>Radio</b> : A1. Terminal equipment for purpose of calling</p> <p><b>Telecom</b> : B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law</p>
Korea CAB Accreditation		<p><b>EMI</b>: KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI <b>EMS</b>: KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS KN24, KN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS</p> <p><b>Radio</b>: RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21, RRL Notice 2007-80, RRL Notice 2004-68</p> <p><b>Telecom</b>: President Notice 20664, RRL Notice 2007-30, RRL Notice 2008-7 with attachments 1, 3, 5, 6; President Notice 20664, RRL Notice 2008-7 with attachment 4</p>
Taiwan NCC CAB Recognition		LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition		CNS 13438
Japan VCCI		<p>R-3083: Radiation 3 meter site</p> <p>C-3421: Main Ports Conducted Interference Measurement</p> <p>T-1597: Telecommunication Ports Conducted Interference Measuremet</p>
Australia CAB Regocnition		<p><b>EMC</b>: AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4</p> <p><b>Radiocommunications</b>: AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771</p> <p><b>Telecommunications</b>: AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06 AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/ACIF S60950.1</p>
Australia NATA Recognition		AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016, AS/ACIF S031, AS/ACIF S038, AS/ACIF S040, AS/ACIF S041, AS/ACIF S043.2