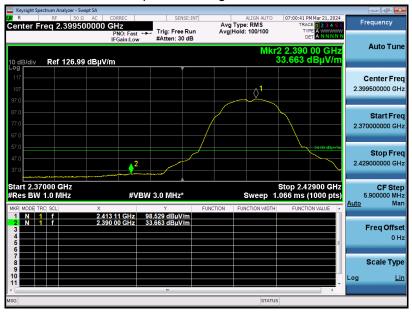


EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 1	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: Pass**



EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 3	Antenna Polarity	Horizontal

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: Pass**



EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 3	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: Pass**

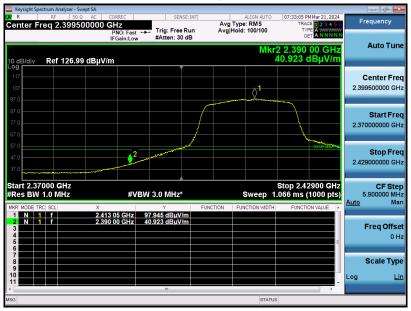


EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 4	Antenna Polarity	Horizontal

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: Pass**

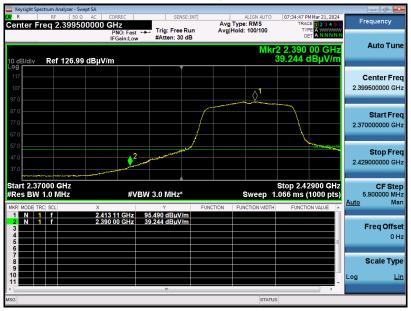


EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 4	Antenna Polarity	Vertical

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: Pass**



EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 6	Antenna Polarity	Horizontal

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: Pass**



EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 6	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: Pass**

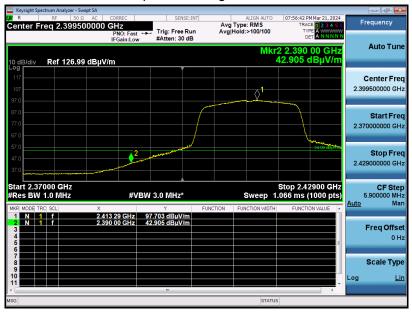


EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 7	Antenna Polarity	Horizontal

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: Pass**

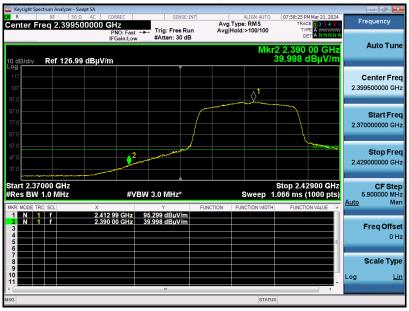


EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 7	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: Pass**



EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 9	Antenna Polarity	Horizontal

#### Test Graph for Peak Measurement



# Test Graph for Average Measurement



### **RESULT: Pass**



EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 9	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: Pass**

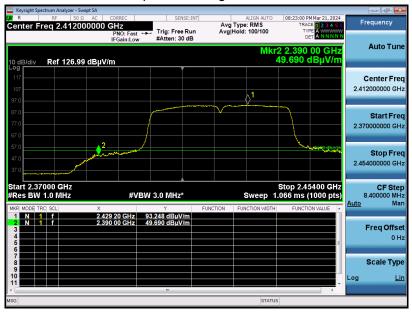


EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 10	Antenna Polarity	Horizontal

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: Pass**

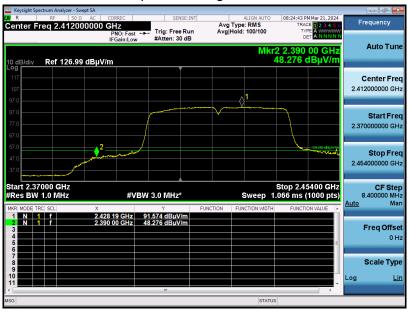


EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 10	Antenna Polarity	Vertical

### Test Graph for Peak Measurement



# Test Graph for Average Measurement



### **RESULT: Pass**

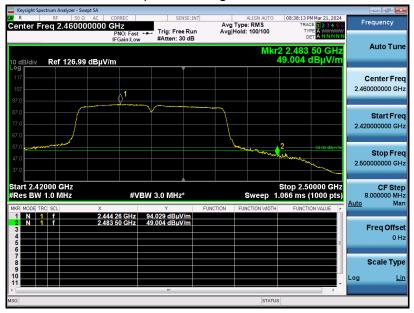


EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 12	Antenna Polarity	Horizontal

#### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: Pass**

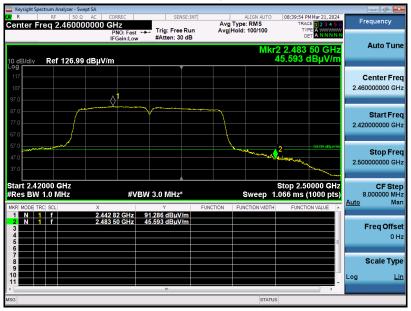


EUT Name	4G LTE IP Radio	Model Name	IP-66
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 12	Antenna Polarity	Vertical

#### Test Graph for Peak Measurement

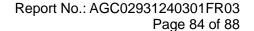


Test Graph for Average Measurement



### **RESULT: Pass**

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.





12. AC Power Line Conducted Emission

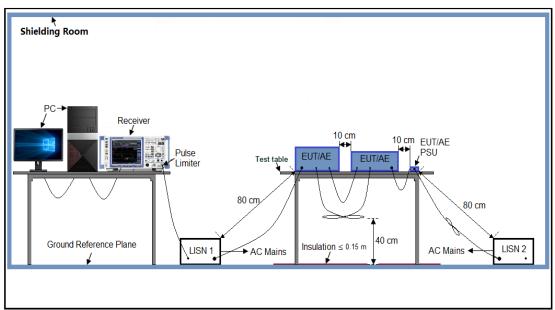
#### 12.1 Measurement Limits

Francisco	Maximum RF Line Voltage			
Frequency	Q.P (dBμV)	Average (dBµV)		
150kHz~500kHz	66-56	56-46		
500kHz~5MHz	56	46		
5MHz~30MHz	60	50		

#### Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 12.2 Block Diagram of Line Conducted Emission Test





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### 12.3 Preliminary Procedure of Line Conducted Emission Test

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 Ohm load; the second scan had Line 1 connected to a 50 Ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 12.4 Final Procedure of Line Conducted Emission Test

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case was reported on the Summary Data page.

#### 12.5 Test Result of Line Conducted Emission Test



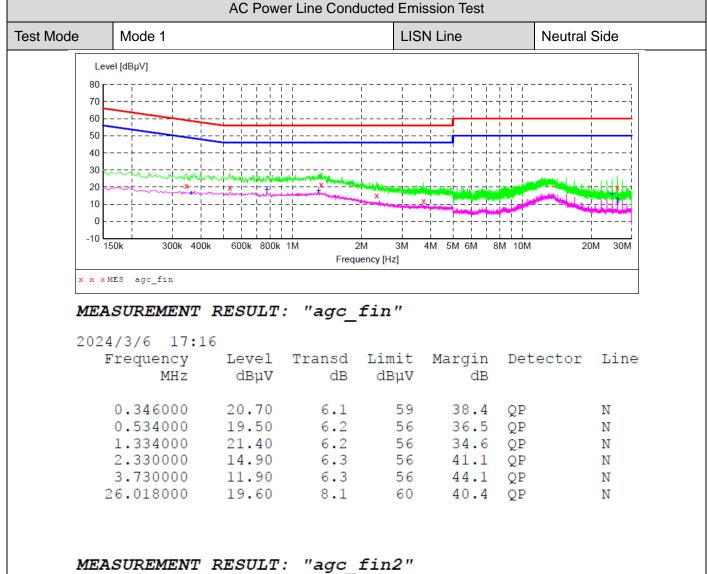
de	Mode 1			119	LISN Line		Hot Side	
ue -	Iviode i			LIS	IN LINE	1100 310	u <del>c</del>	
	el [dBµV]							
80				   				
70 60		<del>-</del>	   					
50					-,			
40			· <b>-</b>		-		ii	
30			January at the state of					
20		- + + ±1- X4	HATTAN THE STATE OF THE STATE O	Water Harrison and the Control of th			al-HI	
10				Marine Marine	The second secon		<b>4.111111</b>	
0					-	-+-	-	
-10 <del>-</del> 15	i0k 300k 400l	k 600k 800k	1M 2l	M 3M	4M 5M 6M 8	M 10M 2	20M 30M	
			Freque	ency [Hz]				
ME	<i>ASUREMENT</i>	RESULT	: "agc_	fin"				
202	24/3/6 17:	12						
202	Frequency	Level	Transd	Limit	Margin	Detector	Line	
	MHZ	dBµV	dB	dΒμV	dB			
	0.338000	20.80	6.1	59	38.5	QP	L1	
	0.422000	20.10	6.1	57	37.3	QP	L1	
	0.878000	20.50 15.30	6.2	56 56	35.5		L1	
	2.234000		6.3	56	40.7		$^{ m L1}$	
	14 314000	20 50	n a	60	44 5	OD		
	14.314000	20.50	6.8 7.9	60 60	39.5 37.3	QP OP		
	14.314000 24.750000	20.50	7.9	60	37.3	QP QP	L1	
	24.750000	22.70	7.9	60				
ME.		22.70	7.9					
	24.750000	22.70 ** RESULT	7.9	60				
	24.750000 <b>ASUREMENT</b>	22.70 ** RESULT	7.9	60			L1	
	24.750000 <b>ASUREMENT</b> 24/3/6 17:	22.70 * <b>RESULT</b> 12	7.9 : <b>"agc_</b>	60 fin2"	37.3	QР	L1	
	24.750000  ASUREMENT 24/3/6 17: Frequency MHz	22.70 PRESULT  12 Level dBµV	7.9 : "agc_ Transd dB	fin2" Limit dBμV	37.3 Margin	QP Detector	L1	
	24.750000  ASUREMENT 24/3/6 17: Frequency MHz 0.362000	22.70 PRESULT  12 Level dBµV  16.50	7.9 : "agc_ Transd dB 6.1	fin2" Limit dBµV	37.3  Margin dB 32.2	QP Detector	Line	
	24.750000  ASUREMENT 24/3/6 17: Frequency MHz 0.362000 0.774000	22.70  **RESULT*  12  Level dBµV  16.50 18.60	7.9 : "agc_ Transd dB 6.1 6.2	fin2" Limit dBµV 49 46	37.3 Margin dB 32.2 27.4	QP Detector AV AV	Line	
	24.750000  ASUREMENT 24/3/6 17: Frequency MHz  0.362000 0.774000 1.306000	22.70  **RESULT*  12  Level dBµV  16.50 18.60 16.80	7.9 : "agc_ Transd dB 6.1 6.2 6.2	fin2"  Limit dBμV  49 46 46	37.3 Margin dB 32.2 27.4 29.2	QP Detector AV AV AV	Line L1 L1 L1	
	24.750000  ASUREMENT 24/3/6 17: Frequency MHz  0.362000 0.774000 1.306000 13.262000	22.70  PRESULT  12  Level dBµV  16.50 18.60 16.80 15.50	7.9 : "agc_ Transd dB 6.1 6.2	fin2"  Limit dBμV  49 46 46 50	37.3 Margin dB 32.2 27.4 29.2 34.5	QP Detector AV AV	Line L1 L1 L1 L1	
	24.750000  ASUREMENT 24/3/6 17: Frequency MHz  0.362000 0.774000 1.306000	22.70  **RESULT*  12  Level dBµV  16.50 18.60 16.80	7.9  : "agc_ Transd dB 6.1 6.2 6.2 6.8	fin2"  Limit dBμV  49 46 46	37.3 Margin dB 32.2 27.4 29.2	QP Detector AV AV AV AV	Line L1 L1 L1	

### **RESULT: Pass**

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### minoramini necesi: age\_i

2024/3/6 17:16 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.362000 0.774000 1.302000 24.738000 26.018000 26.054000	16.50 18.50 17.80 16.00 12.90 11.20	6.1 6.2 6.2 7.9 8.1 8.1	49 46 46 50 50	32.2 27.5 28.2 34.0 37.1 38.8		N N N N N

#### **RESULT: Pass**

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# **Appendix I: Photographs of Test Setup**

Refer to the Report No.: AGC02931240301AP01

**Appendix II: Photographs of Test EUT** 

Refer to the Report No.: AGC02931240301AP02

----End of Report----



# Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
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- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
- 6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
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- 9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.