

# TEST REPORT

**Application No.:** SZEM1811010113CR  
**Applicant:** Shenzhen Esorun Technology Co., LTD  
**Address of Applicant:** 10F, Mingzhuo Building, Mingzhuoxing Industrial Park, Guangming Street, Guangming District, Shenzhen, China  
**Manufacturer:** Shenzhen Esorun Technology Co., LTD  
**Address of Manufacturer:** 10F, Mingzhuo Building, Mingzhuoxing Industrial Park, Guangming Street, Guangming District  
**Factory:** Shenzhen Esorun Technology Co., LTD  
**Address of Factory:** 10F, Mingzhuo Building, Mingzhuoxing Industrial Park, Guangming Street, Guangming District  
**Equipment Under Test (EUT):**  
**EUT Name:** Qi Wireless Car Mount with Auto-Operation  
**Model No.:** Line, Roo, Smart, Bridge, Pandona ♣  
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade mark:** ESORUN  
**FCC ID:** 2AP2N-LINE  
**Standard(s) :** 47 CFR Part 18  
**Date of Receipt:** 2018-11-23  
**Date of Test:** 2018-11-30 to 2018-12-04  
**Date of Issue:** 2019-01-11

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu  
EMC Laboratory Manager



<i>Revision Record</i>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2019-01-11		Original

<b>Authorized for issue by:</b>			
			
		_____	
		<b>Peter Geng /Project Engineer</b>	
			
		_____	
		<b>Eric Fu /Reviewer</b>	



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## 2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated emission	47 CFR Part 18	FCC MP-5	Part 18.305	Pass

### Declaration of EUT Family Grouping:

Model No.: Line, Roo, Smart, Bridge, Pandona

Only the model Line was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on shell shape.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	Input: DC 9V/2A, DC 5V/2A Output: 10W/7.5W/5W
Cable:	USB to type C charging line: 100cm, unshielded
Antenna Type:	Inductive Loop Coil Antenna
Modulation Type:	Load Modulation
Operation Frequency:	110.19kHz to 201.54kHz

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Car Charger	provided by SGS	N/A	N/A
E-charging load	provided by SGS	N/A	5W
iPhone 8	Apple	A1863	F4GVQ656JC6D
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 2.84\text{dB}$
6	Conducted Spurious emissions	$\pm 0.75\text{dB}$
7	RF Radiated power	$\pm 4.5\text{dB}$ (below 1GHz)
		$\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Supply voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$



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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



## 5 Equipment List

Radiated emission					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018-07-12	2019-07-11
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018-04-02	2019-04-01
Trilog-Broadband Antenna (30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-28
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2018-04-13	2019-04-12
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2018-09-27	2019-09-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07



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## 6 Radio Spectrum Matter Test Results

### 6.1 Radiated emission

Test Requirement Part 18.305  
 Test Method: FCC MP-5  
 Measurement Distance: 3m  
 Limit:

(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 $25 \times \text{SQRT}(\text{power}/500)$	300 <sup>1</sup> 300
	Any non-ISM frequency	Below 500 500 or more	15 $15 \times \text{SQRT}(\text{power}/500)$	300 <sup>1</sup> 300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 ( <sup>2</sup> )	1,600 ( <sup>2</sup> )
Medical diathermy	Any ISM frequency Any non-ISM frequency	Any Any	25	300
			15	300
Ultrasonic	Below 490 kHz 490 to 1,600 kHz Above 1,600 kHz	Below 500 500 or more Any Any	2,400/F(kHz)	300
			$2,400/\text{F}(\text{kHz}) \times \text{SQRT}(\text{power}/500)$	<sup>3</sup> 300
			24,000/F(kHz) 15	30 30
Induction cooking ranges	Below 90 kHz	Any	1,500	<sup>4</sup> 30
	On or above 90 kHz	Any	300	<sup>4</sup> 30

<sup>1</sup>Field strength may not exceed 10 µV/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

<sup>2</sup>Reduced to the greatest extent possible.

<sup>3</sup>Field strength may not exceed 10 µV/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.

<sup>4</sup>Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.



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**6.1.1 E.U.T. Operation**

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

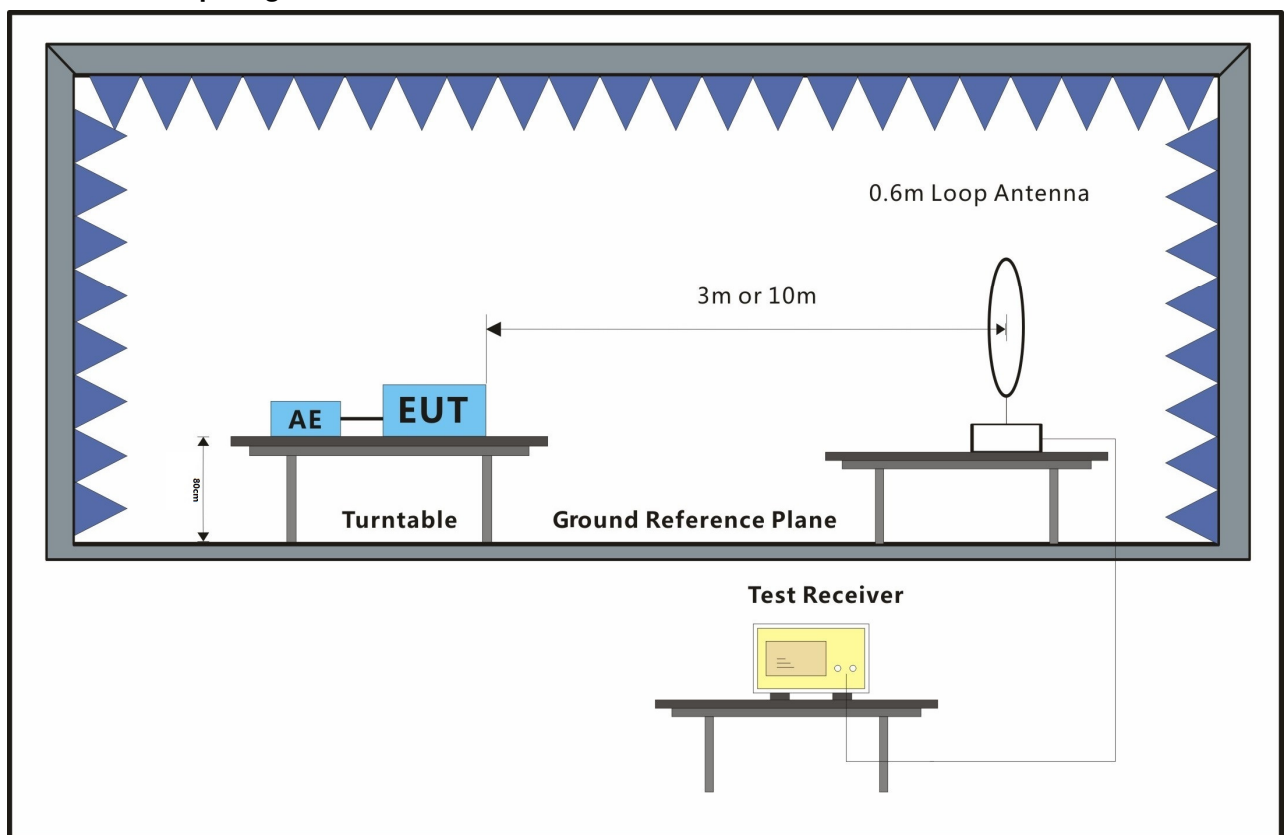
Pretest these modes to find the worst case:

- a: Charge mode\_Keep the EUT charging(5W)
- b: Charge mode\_Keep the EUT charging(7.5W)
- c: Charge mode\_Keep the EUT charging(10W)

The worst case for final test:

- c: Charge mode\_Keep the EUT charging(10W)

**6.1.2 Test Setup Diagram**



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### 6.1.3 Measurement Procedure and Data

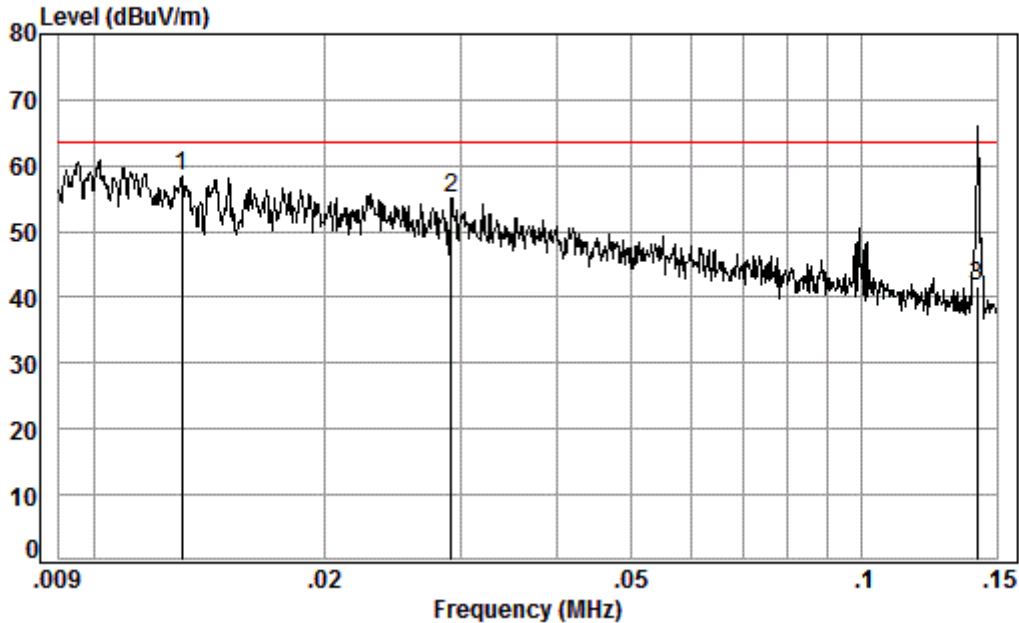
Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber(30MHz-1000MHz) and 10 meter semi-anechoic chamber(9kHz-30MHz). The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters(30MHz-1000MHz) and 10 meter (9kHz-30MHz) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Above 30MHz: The Analyzer/Receiver scanned from 30MHz to 1000MHz.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. Below 30MHz: The Analyzer/Receiver scanned from 9kHz to 30MHz.The antenna height is 2 meters above the ground to determine the maximum value of the field strength.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 2 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Repeat above procedures until all frequencies measured was complete.
- i. Measurement Requirement:
  - 1)This product belongs to non-ISM equipment, the field strength limit is 15uV/m at 300 meter distance.
  - 2)Limit:  $20\log(15\mu\text{V}/\text{m}) + 20\log(300/3) = 23.52 + 40 = 63.52\text{dB}\mu\text{V}/\text{m}$  at 3 meters distance



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Mode: c, 0.009-0.15MHz



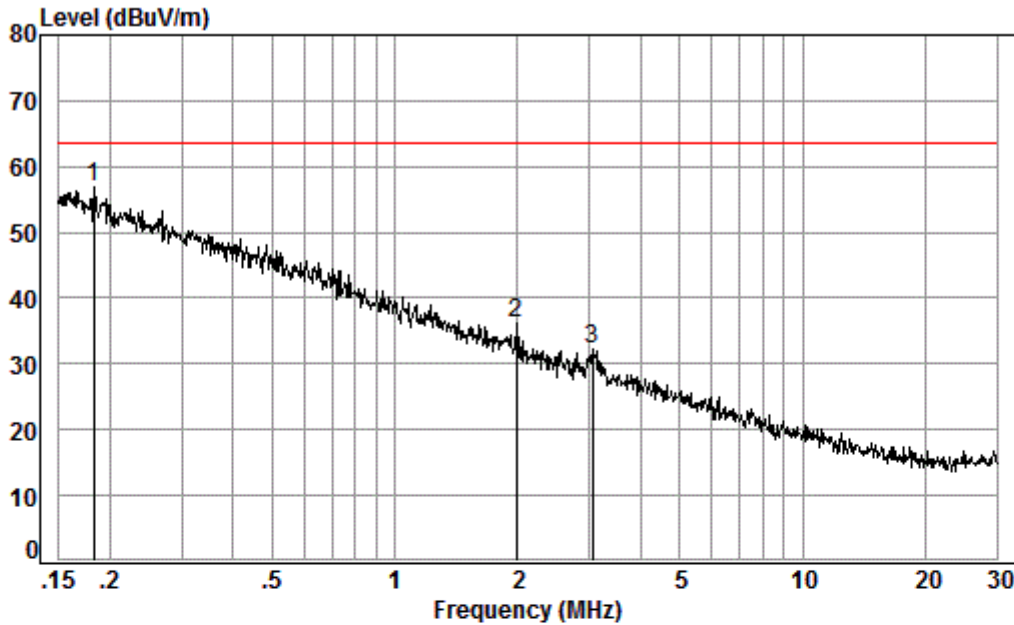
Condition: 3m  
 Job No. : 10113CR  
 Test Mode: c

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	0.01	0.26	17.67	31.54	72.07	58.46	63.52	-5.06 Peak
2		0.03	0.18	13.93	31.99	72.86	54.98	63.52	-8.54 Peak
3	av	0.14	0.06	11.74	32.67	62.41	41.54	63.52	-21.98 Average



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Mode: c, 0.15-30MHz



Condition: 3m  
 Job No. : 10113CR  
 Test Mode: c

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	0.18	0.07	11.82	32.67	77.59	56.81	63.52	-6.71 Peak
2		1.99	0.34	12.10	32.65	56.31	36.10	63.52	-27.42 Peak
3		3.06	0.38	12.19	32.65	52.33	32.25	63.52	-31.27 Peak



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## 7 Photographs

### 7.1 Test Setup

Refer to Setup Photos

### 7.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos

- End of the Report -

