

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM181000881001

Fax: +86 (0) 755 2671 0594 Page: 1 of 15

TEST REPORT

Application No.: SZEM1810008810CR

Applicant: Shenzhen Reflying Electronic Co., Ltd.

Address of Applicant: 6 Bldg., Gaoxinjian Industrial Zone, Heping Villag Fuyong Town, Bao'an

District, Shenzhen, Guangdong, China

Manufacturer: Shenzhen Reflying Electronic Co., Ltd.

Address of Manufacturer: 6 Bldg., Gaoxinjian Industrial Zone, Heping Villag Fuyong Town, Bao'an

District, Shenzhen, Guangdong, China

Factory: Shenzhen Reflying Electronic Co., Ltd.

Address of Factory: 6 Bldg., Gaoxinjian Industrial Zone, Heping Villag Fuyong Town, Bao'an

District, Shenzhen, Guangdong, China

Equipment Under Test (EUT):

EUT Name: Power Base Wireless Desk Charger **Model No.:** RWC35, CY2376PPWIR, MWC35 •

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: A7M-CY2376PPWIR-N

Standard(s): 47 CFR Part 18

Date of Receipt: 2018-10-09

Date of Test: 2018-10-10 to 2018-10-16

Date of Issue: 2018-10-18

Test Result: Pass*



EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEM181000881001

Page: 2 of 15

	Revision Record								
Version	Version Chapter Date Modifier Remark								
01		2018-10-18		Original					

Authorized for issue by:		
	Peter. Goog	
	Peter Geng /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



Report No.: SZEM181000881001

Page: 3 of 15

2 Test Summary

Radio Spectrum Matter Part								
Item	Standard	Method	Requirement	Result				
Conducted disturbance	47 CFR Part 18	FCC MP-5	Part 18.307	Pass				
Radiated emission	47 CFR Part 18	FCC MP-5	Part 18.305	Pass				

Remark:

Model No.: RWC35, CY2376PPWIR, MWC35

Only the model RWC35 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only different on model No.



Report No.: SZEM181000881001

Page: 4 of 15

3 Contents

		P	age
1	COVE	ER PAGE	1
2	TEST	SUMMARY	3
3		TENTS	
•	00111		7
4	GENE	ERAL INFORMATION	5
	4.1 [DETAILS OF E.U.T.	5
	4.2	DESCRIPTION OF SUPPORT UNITS	5
	4.3 N	MEASUREMENT UNCERTAINTY	5
		TEST LOCATION	
		Test Facility	
		DEVIATION FROM STANDARDS	
		ABNORMALITIES FROM STANDARD CONDITIONS	
5	EQUI	PMENT LIST	7
6	RADI	O SPECTRUM MATTER TEST RESULTS	8
	6.1 (CONDUCTED DISTURBANCE	8
		E.U.T. Operation	
	6.1.2	Test Setup Diagram	8
	6.1.3		
		RADIATED EMISSION	
		E.U.T. Operation	
		Test Setup Diagram	
	6.2.3		
7	PHOT	TOGRAPHS	15
	7.1	Test Setup	15
	7.1 7.2	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	15



Report No.: SZEM181000881001

Page: 5 of 15

4 General Information

4.1 Details of E.U.T.

Power supply:	Input: DC 5V-9V
	Output: 5W, 7.5W, 10W
Operation frequency:	109.46-148.24 kHz
Antenna type:	Inductive Loop Coil Antenna
Modulation type:	Load modulation
Remark:	1)Tests were conducted in both load modes and the worst case (10W) is reported only.
	2) This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1357 W010A051	REF. No.SEA0500
Adapter	SAMSUNG	EP-TA200	R37J8YA7W71DK3
iPhone 8	Apple	A1863	F4GVQ656JC6D
Micro USB Cable	PHILIPS	SWR2101	REF. No.SEA0700
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.75dB
5	RF power density	± 2.84dB
6	Conducted Spurious emissions	± 0.75dB
7	DE Dadiated newer	± 4.5dB (below 1GHz)
/	RF Radiated power	± 4.8dB (above 1GHz)
8	Dadiated Courieus emission tost	± 4.5dB (Below 1GHz)
0	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
9	Temperature test	± 1 ℃
10	Humidity test	± 3%
11	Supply voltages	± 1.5%
12	Time	± 3%



Report No.: SZEM181000881001

Page: 6 of 15

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



Report No.: SZEM181000881001

Page: 7 of 15

5 Equipment List

Conducted disturbance								
Equipment	Inventory No	Cal Date	Cal Due Date					
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2020-05-09			
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM024-01	2018-07-12	2019-07-11			
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018-09-25	2019-09-24			
LISN	ETS-LINDGREN	3816/2	SEM007-02	2018-04-02	2019-04-01			
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018-04-02	2019-04-01			

Radiated emission								
Equipment	Manufacturer	nufacturer 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			
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(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-01-26	2019-01-25			
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		



Report No.: SZEM181000881001

Page: 8 of 15

6 Radio Spectrum Matter Test Results

6.1 Conducted disturbance

Test Requirement Part 18.307
Test Method: FCC MP-5

Limit:

	Conducto	ed limit (dBμV)
Frequency of emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

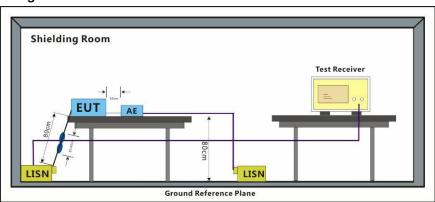
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 65.8 % RH Atmospheric Pressure: 1010 mbar

Test mode a:Charge mode_Keep the EUT charging

6.1.2 Test Setup Diagram



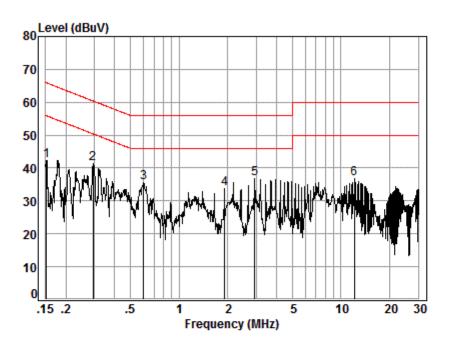
6.1.3 Measurement Procedure and Data



Report No.: SZEM181000881001

Page: 9 of 15

Mode:a; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 08810CR

Test mode: a

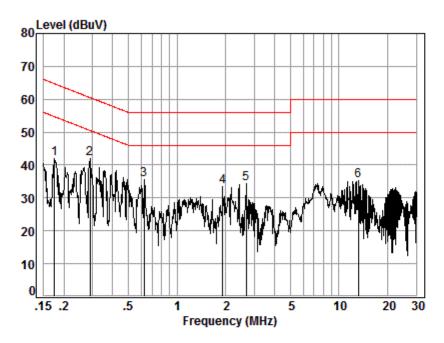
	Freq	Cable Loss	LISN Factor	Read Level		Limit Line		Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.66	32.64	42.31	55.91	-13.60	Peak
2	0.29	0.04	9.67	31.60	41.31	50.41	-9.10	Peak
3	0.60	0.07	9.67	25.85	35.59	46.00	-10.41	Peak
4	1.91	0.15	9.72	23.79	33.66	46.00	-12.34	Peak
5	2.93	0.16	9.71	26.86	36.73	46.00	-9.27	Peak
6	12.12	0.19	10.09	26.63	36.91	50.00	-13.09	Peak



Report No.: SZEM181000881001

Page: 10 of 15

Mode:a; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 08810CR

Test mode: a

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.64	32.19	41.85	54.72	-12.87	Peak
2	0.29	0.04	9.64	32.24	41.92	50.54	-8.62	Peak
3	0.62	0.07	9.64	25.81	35.52	46.00	-10.48	Peak
4	1.91	0.15	9.69	23.76	33.60	46.00	-12.40	Peak
5	2.66	0.16	9.68	24.59	34.43	46.00	-11.57	Peak
6	13.13	0.20	10.20	24.98	35.38	50.00	-14.62	Peak



Report No.: SZEM181000881001

Page: 11 of 15

6.2 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 × SQRT(power/500)	300 ¹ 300	
	Any non-ISM frequency	Below 500 500 or more	15 15 × SQRT(power/500)	300 ¹ 300	
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (²)	1,600 (²)	
Medical diathermy	Any ISM frequency Any non-ISM frequency	Any Any	25 15	300 300	
Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) 2,400/F(kHz) × SQRT (power/500)	300 ³ 300	
		Any Any	24,000/F(kHz) 15	30 30	
Induction cooking ranges	Below 90 kHz On or above 90 kHz	Any Any	1,500 300	⁴ 30 ⁴ 30	

 1 Field strength may not exceed 10 μ V/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.

²Reduced to the greatest extent possible.

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

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

Remark:

- 1 This product belongs to non-ISM equipment, the field strength limit is 15uV/m at 300 meter distance.
- 2 Limit: 20log(15uV/m) +20log (300/3) =23.52+40=63.52dBuV/m at 3 meters distance



Report No.: SZEM181000881001

Page: 12 of 15

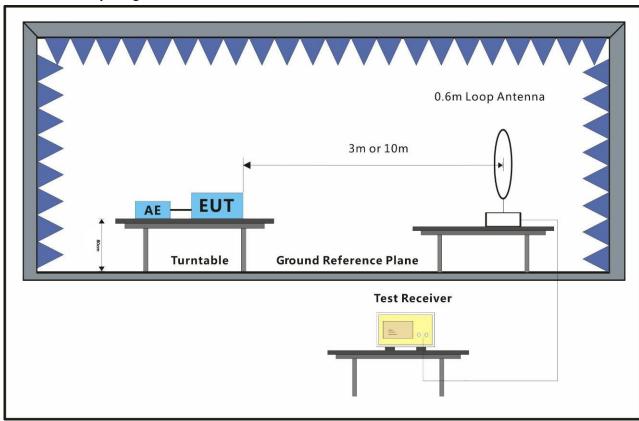
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1010 mbar

Test mode a:Charge mode_Keep the EUT charging

6.2.2 Test Setup Diagram



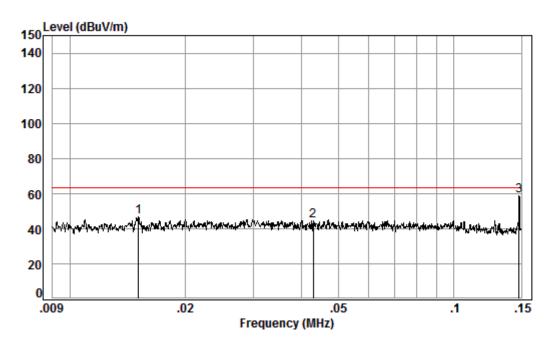
6.2.3 Measurement Procedure and Data



Report No.: SZEM181000881001

Page: 13 of 15

Mode a: 0.009-0.15MHz



Condition: 3m

Job No. : 08810CR

Test Mode: a

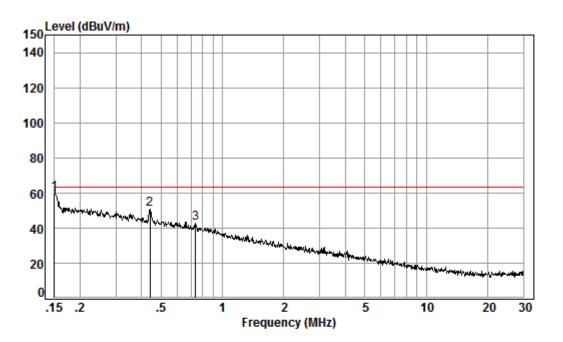
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	0.02	0.25	16.76	31.62	61.22	46.61	63.52	-16.91
2	0.04	0.14	12.83	32.21	63.89	44.65	63.52	-18.87
3 рр	0.15	0.06	11.71	32.67	79.87	58.97	63.52	-4.55



Report No.: SZEM181000881001

Page: 14 of 15

Mode a: 0.15-30MHz



Condition: 3m

Job No. : 08810CR

Test Mode: a

	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	0.15	0.07	11.70	32.56	80.59	59.80	63.52	-3.72
2	0.44	0.11	11.75	32.56	71.49	50.79	63.52	-12.73
3	0.74	0.18	11.99	32.56	63.37	42.98	63.52	-20.54



Report No.: SZEM181000881001

Page: 15 of 15

7 Photographs

7.1 Test Setup

Please refer to setup photos.

7.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -