



FCC TEST REPORT

For

TRAVEL CHARGER

Models Number: USBCHAGTRAAD30



Reference No. : CT10082282-S-F

Applicant : Shenzhen Mopoint Technology Co., LTD.

Address : 2~6Floor /5# Gaofa Scientific Technology Industry Park,
LongJing Road, NanShan Of Shenzhen, China

Data of Test : August 04, 2010 to August 05, 2010

Data of Issue : August 07, 2010



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TEST REPORT DECLARATION

Applicant : Shenzhen Mopoint Technology Co., LTD.
 Address : 2~6Floor /5# Gaofa Scientific Technology Industry Park, LongJing Road, NanShan Of Shenzhen, China
 Manufacturer : Shenzhen Mopoint Technology Co., LTD.
 Address : 2~6Floor /5# Gaofa Scientific Technology Industry Park, LongJing Road, NanShan Of Shenzhen, China
 Product : TRAVEL CHARGER
 Models No. : USBCHAGTRAAD30

Test Standard:

FCC Part 15 Subpart B:2007

The device described above is tested by Solid Industrial (Shenzhen) Co., Ltd. EMC Laboratory to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and EUT performance criterion. The test results are contained in this test report. Shenzhen CCE Test Electronic Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests. Also, this report shows that the EUT technically complies with the Code of Federal Regulations, Title 47-Telecommunications, FCC Rules and Regulations Part 15, Subpart B.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen CCE Test Electronic Co., Ltd.

Tested By: Sachy Wong

Reviewed By: Thomas Yao



Test Result :	PASS *
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* The sample detailed above has been tested to the requirements of Council Directives ANSI C63.4:2003. The test results have been reviewed against the Directives above and found to meet their essential requirements.



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1. TEST SUMMARY

Test Items	Test Results
Conducted disturbance	Pass
Radiated disturbance	Pass



2. TEST LABORATORY AND FACILITY INFORMATION

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

- **FCC – Registration No.: 759397**
Solid Industrial (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 759397, December 28, 2006.

2.1. Test Location

All Emissions tests were performed at:-

Solid Industrial (Shenzhen) Co., Ltd. at 333 Bulong Highway Buji Longgang, Shenzhen, Guangdong, China.

Its' VCCI – Registration No.: 2153.



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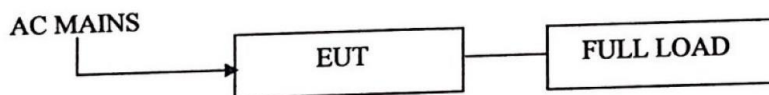
3. GENERAL INFORMATION

3.1. EUT Description

Product : TRAVEL CHARGER
Models No. : USBCHAGTRAAD30
Technical Data: : INPUT AC 110V-220V, OUTPUT DC 5V/2.1A
Applicant : Shenzhen Mopoint Technology Co., LTD.
Manufacturer : Shenzhen Mopoint Technology Co., LTD.

Note : All above models are identical in schematic, structure, except for different model No., dimension and shape, EMI tests were performed with MPTC03 only.

3.2. Block Diagram of EUT Configuration



3.3. Test Conditions

Temperature: 23-26 °C
Relative Humidity: 51-59%



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4. TEST EQUIPMENT USED

Equipment	Brand Name	Model	Cal. Int Months	Last Cal. Date
3m Anechoic chamber				
EMC Analyzer	Agilent	E7402A	12	2009-08
EMI Test Receiver	R&S	ESS	12	2009-08
Pre Amplifier	Anritsu	MH648A	12	2009-08
Bilog Antenna	SCHAFFNER	CBL6111C	12	2009-08
AM/FM Stereo Signal Generator	Panasonic	VP-8122A	12	2009-08
Signal Generator	R&S	SMG	12	2009-08



5. CONDUCTED DISTURBANCE TEST

5.1. Test Standard and Limit

5.1.1. Test standard

FCC Part 15.107

5.1.2. Limits of disturbance voltage at the mains terminal

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

* Decreasing linearly with logarithm of the frequency

5.2. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

5.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

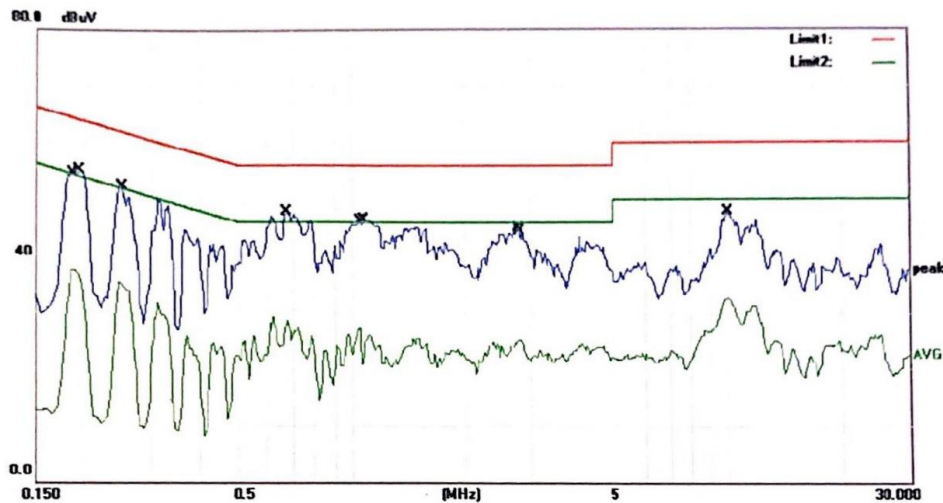
5.4. Test Data

Refer to see the following pages.



Reference No.: CT10082282-S-F

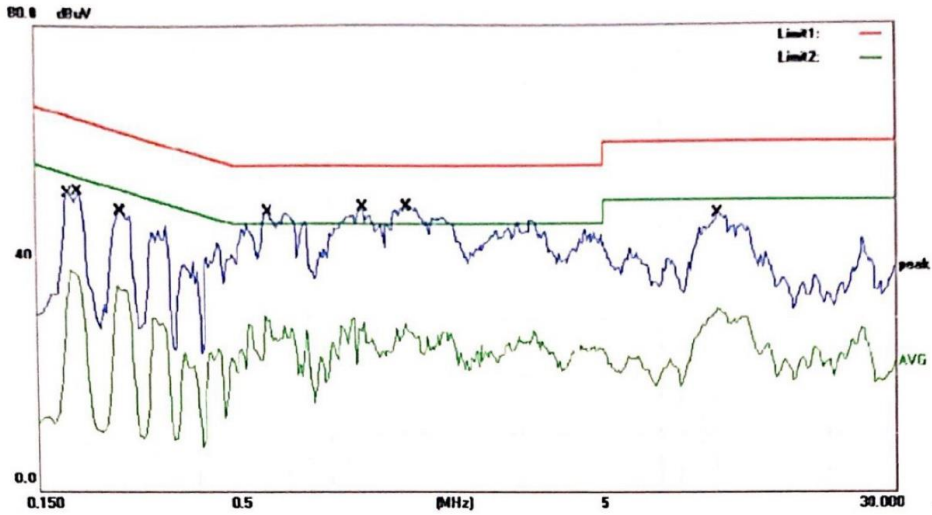
Neutral Line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1874	37.36	0.00	37.36	54.15	-16.79	AVG	
2		0.1950	55.05	0.00	55.05	63.82	-8.77	QP	
3		0.2468	35.22	0.00	35.22	51.86	-16.64	AVG	
4		0.2500	52.38	0.00	52.38	61.76	-9.38	QP	
5	*	0.6800	47.94	0.00	47.94	56.00	-8.06	QP	
6		0.6800	28.78	0.00	28.78	46.00	-17.22	AVG	
7		1.0550	27.33	0.00	27.33	46.00	-18.67	AVG	
8		1.0850	46.42	0.00	46.42	56.00	-9.58	QP	
9		2.7800	45.17	0.00	45.17	56.00	-10.83	QP	
10		2.8300	25.38	0.00	25.38	46.00	-20.62	AVG	
11		9.9800	47.98	0.00	47.98	60.00	-12.02	QP	
12		9.9800	32.73	0.00	32.73	50.00	-17.27	AVG	



Live Line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1850	37.88	0.00	37.88	54.26	-16.38	AVG	
2		0.1950	51.43	0.00	51.43	63.82	-12.39	QP	
3		0.2508	48.30	0.00	48.30	61.73	-13.43	QP	
4		0.2550	34.83	0.00	34.83	51.59	-16.76	AVG	
5		0.6250	48.11	0.00	48.11	56.00	-7.89	QP	
6		0.6250	29.63	0.00	29.63	46.00	-16.37	AVG	
7		1.1200	48.89	0.00	48.89	56.00	-7.11	QP	
8		1.1200	29.28	0.00	29.28	46.00	-16.72	AVG	
9		1.4500	29.02	0.00	29.02	46.00	-16.98	AVG	
10	*	1.4750	49.06	0.00	49.06	56.00	-6.94	QP	
11		10.0750	47.73	0.00	47.73	60.00	-12.27	QP	
12		10.0750	31.53	0.00	31.53	50.00	-18.47	AVG	



6. RADIATED DISTURBANCE TEST

6.1. Test Standard and Limit

6.1.1. Test standard

FCC Part 15.109

6.1.2. Limits of radiated disturbances at 3 m distance

FREQUENCY MHz	FIELD STRENGTHS LIMITS dB(μ V/m)
30 ~ 88	40.0
88 ~ 216	43.5
216 ~ 960	46.0
Above 960	54.0

* The lower limit shall apply at the transition frequency.

* The test distance is 3m.

6.2. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

6.3. Test Arrangement

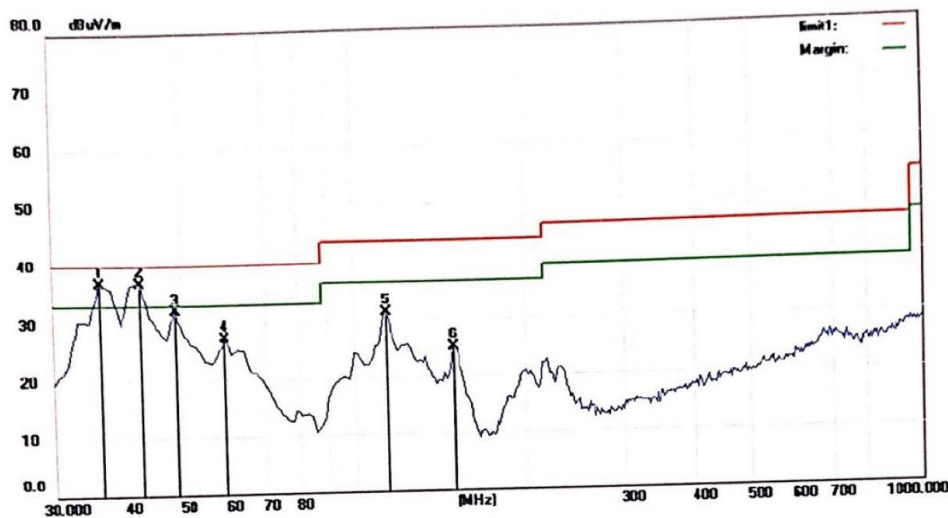
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

6.4. Test Data

Refer to see the following pages.



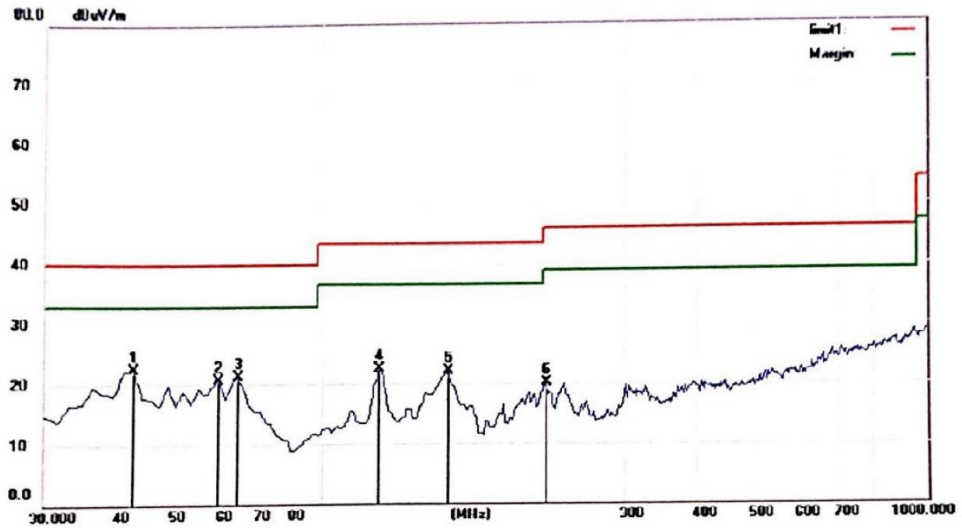
Vertical:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	36.2180	22.76	14.22	36.98	40.00	-3.02	QP			
2	I	42.4358	22.84	14.14	36.98	40.00	-3.02	QP			
3		48.6537	18.26	13.83	32.09	40.00	-7.91	QP			
4		59.5352	14.12	13.18	27.30	40.00	-12.70	QP			
5		113.9423	18.70	12.69	31.39	43.50	-12.11	QP			
6		149.6954	16.01	9.02	25.03	43.50	-18.47	QP			



Horizontal:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	*	42.4358	8.12	14.30	22.42	40.00	-17.58	QP			
2		59.5352	7.56	13.19	20.75	40.00	-19.25	QP			
3		64.1987	9.08	12.21	21.29	40.00	-18.71	QP			
4		112.3876	10.38	12.10	22.48	43.50	-21.02	QP			
5		148.1410	13.03	8.99	22.02	43.50	-21.48	QP			
6		219.6474	8.35	11.84	20.19	46.00	-25.81	QP			

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APPENDIX: EUT PHOTOGRAPHS AND TEST PICTURES

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Photo 1 Appearance View of EUT



Photo 2 Appearance View of EUT



Photo 3 Radiated Disturbance Test

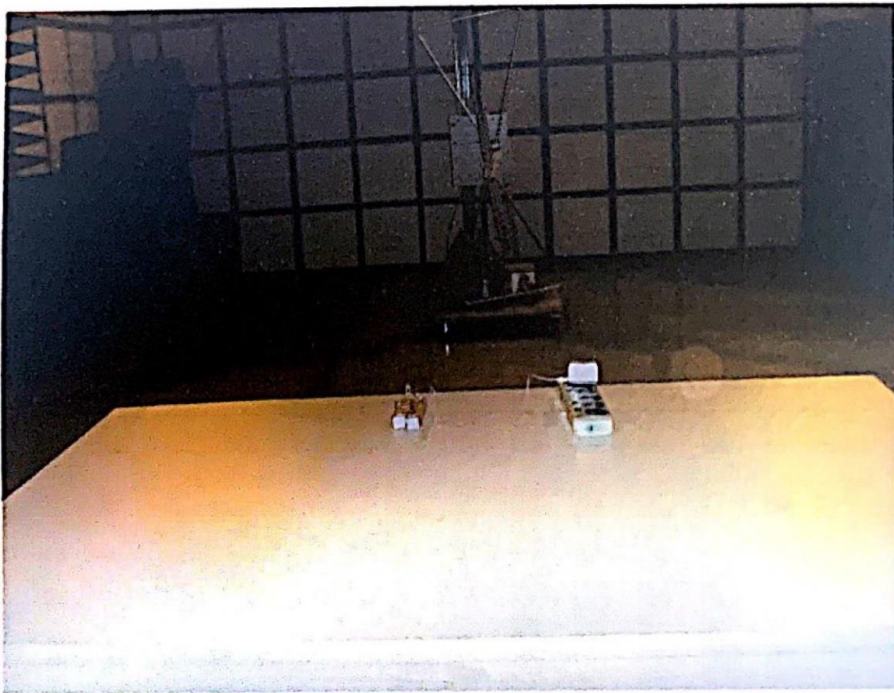


Photo 4 Conducted disturbance Test

