



TEST REPORT

Reference No. : WTS16S1062374E
Applicant : The House of Marley, LLC
Address : 3000 Pontiac Trail, Commerce Township, MI48390 USA
Manufacturer : The same as above
Address : The same as above
Product Name : GET TOGETHER
Model No. : EM-JA006B
Standards : FCC PART15 SUBPART B: 2015
Date of Receipt sample : Oct. 10, 2016
Date of Test : Oct. 11 – 24, 2016
Date of Issue : Oct. 25, 2016
Test Result : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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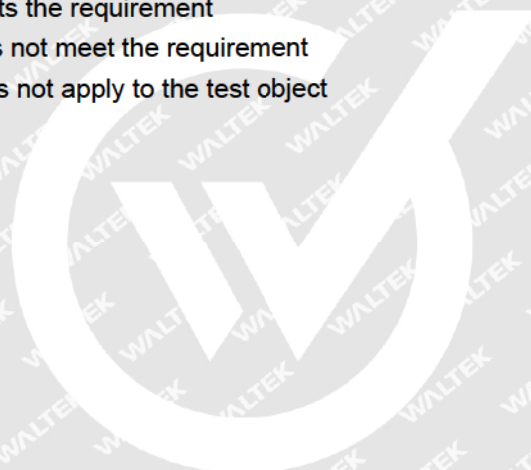


1 Test Summary

Test Item	Test Requirement	Class	Test Method	Test Result
Power Line Conducted Emission (150kHz to 30MHz)	FCC PART 15, SUBPART B: 2015	Class B	ANSI C63.4: 2014	Pass
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2015	Class B	ANSI C63.4: 2014	Pass
Radiated Emission (Above 1GHz)	FCC PART 15, SUBPART B: 2015	Class B	ANSI C63.4: 2014	N/A

Remark:

Pass Test item meets the requirement
Fail Test item does not meet the requirement
N/A Test case does not apply to the test object



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2 Contents

	Page
COVER PAGE	1
1 TEST SUMMARY	2
2 CONTENTS	3
3 GENERAL INFORMATION	4
3.1 GENERAL DESCRIPTION OF E.U.T.....	4
3.2 DETAILS OF E.U.T.....	4
3.3 STANDARDS APPLICABLE FOR TESTING.....	4
3.4 TEST FACILITY.....	4
3.5 SUBCONTRACTED.....	5
3.6 ABNORMALITIES FROM STANDARD CONDITIONS.....	5
4 EQUIPMENT USED DURING TEST	6
4.1 EQUIPMENT LIST.....	6
4.2 MEASUREMENT UNCERTAINTY.....	7
5 EMISSION TEST RESULTS	8
5.1 POWER LINE CONDUCTED EMISSION, 150KHZ TO 30MHZ.....	8
5.2 RADIATION EMISSION, 30MHZ TO 1000MHZ.....	13
6 PHOTOGRAPHS – TEST SETUP	18
6.1 PHOTOGRAPH –POWER LINE CONDUCTED EMISSION TEST SETUP.....	18
6.2 PHOTOGRAPH – RADIATED EMISSION TEST SETUP FOR 30MHZ~1000MHZ.....	19
7 PHOTOGRAPHS – CONSTRUCTIONAL DETAILS	20
7.1 MODEL EM- JA006B – APPEARANCE VIEW.....	20
7.2 MODEL EM- JA006B – OPEN VIEW.....	26

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3 General Information

3.1 General Description of E.U.T.

Product Name : GET TOGETHER

Model No. : EM-JA006B

3.2 Details of E.U.T.

Technical Data : DC 7.4V, 2200mAh, 16.28Wh by battery.
Charging power supply: DC 15V, 1.5A by Adapter
USB Output: DC 5V, 1A

Adapter 1 : Model: S024AMM1500150
Input: 100-240V~50/60Hz, 600mA
Output: 15.0V === 1.5A

Adapter 2 : Model: DYS624-150150W-K
Input: 100-240V~50/60Hz, 0.8A Max,
Output: 15.0V === 1.5A

3.3 Standards Applicable for Testing

The tests were performed according to following standards:

FCC PART 15, SUBPART B: Electronic Code of Federal Regulations- Unintentional Radiators
2015

3.4 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A-1**

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration 7760A-1, October 15, 2015.

- **FCC – Registration No.: 880581**

Waltek Services (Shenzhen) Co., Ltd. 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 880581, April 29, 2014.

- **FCC – Registration No.: 328995**

Waltek Services(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 328995 December 3, 2014.



3.5 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

3.6 Abnormalities from Standard Conditions

None.



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4 Equipment Used during Test

4.1 Equipment List

Conducted Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	101155	Sep.12, 2016	Sep.11, 2017
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.12, 2016	Sep.11, 2017
3.	Limiter	York	MTS-IMP-136	261115-001-0024	Sep.12, 2016	Sep.11, 2017
4.	Cable	LARGE	RF300	-	Sep.12, 2016	Sep.11, 2017
3m Semi-anechoic Chamber for Radiation(TDK)						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	Apr.13, 2016	Apr.12, 2017
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Apr.09, 2016	Apr.08, 2017
3	Amplifier	ANRITSU	MH648A	M43381	Apr.13, 2016	Apr.12, 2017
4	Cable	HUBER+SUHNER	CBL2	525178	Apr.13, 2016	Apr.12, 2017

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4.2 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	$\pm 3.64\text{dB}$	(1)
Radiation Emission	30MHz~1000MHz	$\pm 5.03\text{dB}$	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



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5 Emission Test Results

5.1 Power Line Conducted Emission, 150kHz to 30MHz

Test Requirement : FCC PART 15, SUBPART B
 Test Method : ANSI C63.4
 Test Result : Pass
 Frequency Range : 150kHz to 30MHz
 Class : Class B
 Limit :

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

5.1.1 E.U.T. Operation

Operating Environment:

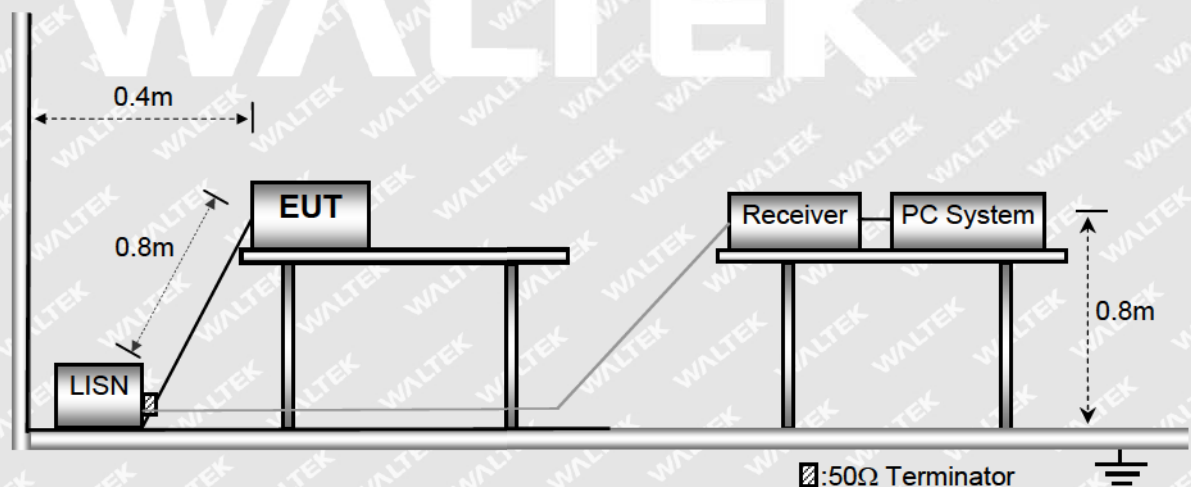
Temperature : 23°C
 Humidity : 53.6%RH
 Atmospheric Pressure : 101kPa

EUT Operation:

Input Voltage : AC 120V/60Hz
 Operating Mode : Charging+Aux in+USB Output+Adapter1,
 Charging+Aux in+USB Output+Adapter2

5.1.2 Block Diagram of Test Setup

The Mains Terminals Disturbance Voltage tests were performed in accordance with the ANSI C63.4 .





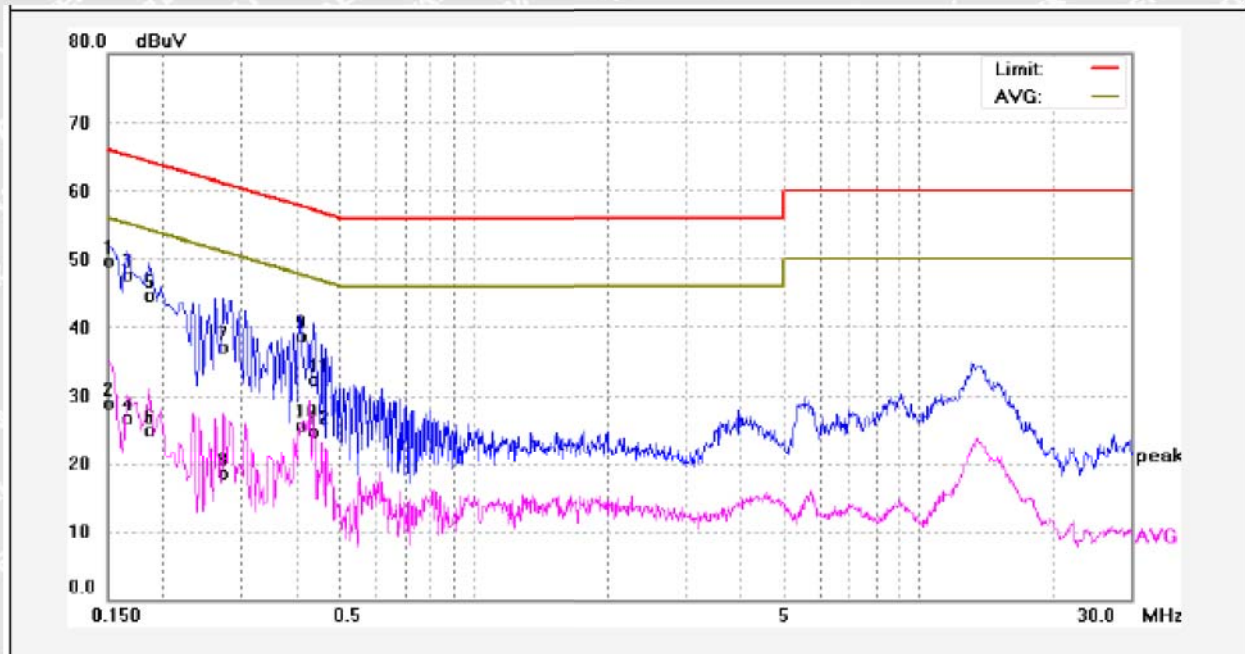
5.1.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line. According to the data in section 5.1.4, the EUT complied with the FCC PART 15, SUBPART B standards.

5.1.4 Power Line Conducted Emission Test Data

Adapter1:

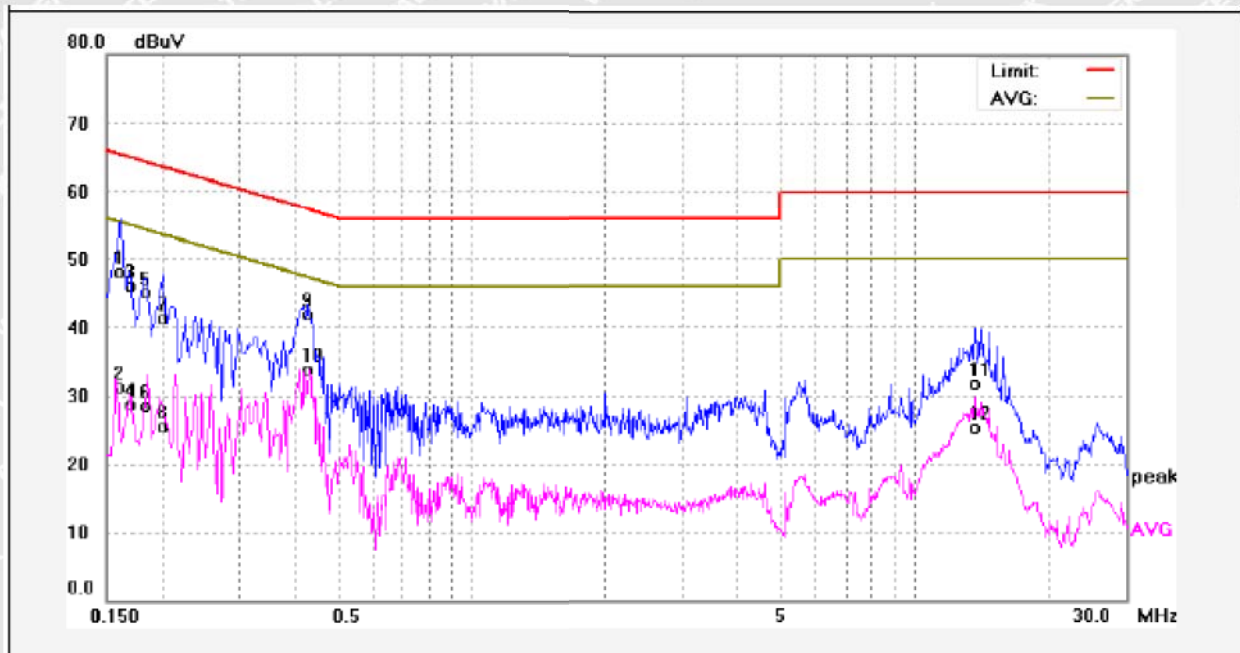
Live Line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1500	39.99	9.75	49.74	65.99	-16.25	QP	
2	0.1500	19.19	9.75	28.94	55.99	-27.05	AVG	
3	0.1660	37.98	9.74	47.72	65.15	-17.43	QP	
4	0.1660	17.02	9.74	26.76	55.15	-28.39	AVG	
5	0.1860	34.90	9.75	44.65	64.21	-19.56	QP	
6	0.1860	15.21	9.75	24.96	54.21	-29.25	AVG	
7	0.2740	27.44	9.74	37.18	60.99	-23.81	QP	
8	0.2740	8.86	9.74	18.60	50.99	-32.39	AVG	
9	0.4060	28.86	9.75	38.61	57.73	-19.12	QP	
10	0.4060	15.93	9.75	25.68	47.73	-22.05	AVG	
11	0.4340	22.56	9.75	32.31	57.18	-24.87	QP	
12	0.4340	15.03	9.75	24.78	47.18	-22.40	AVG	



Neutral Line:

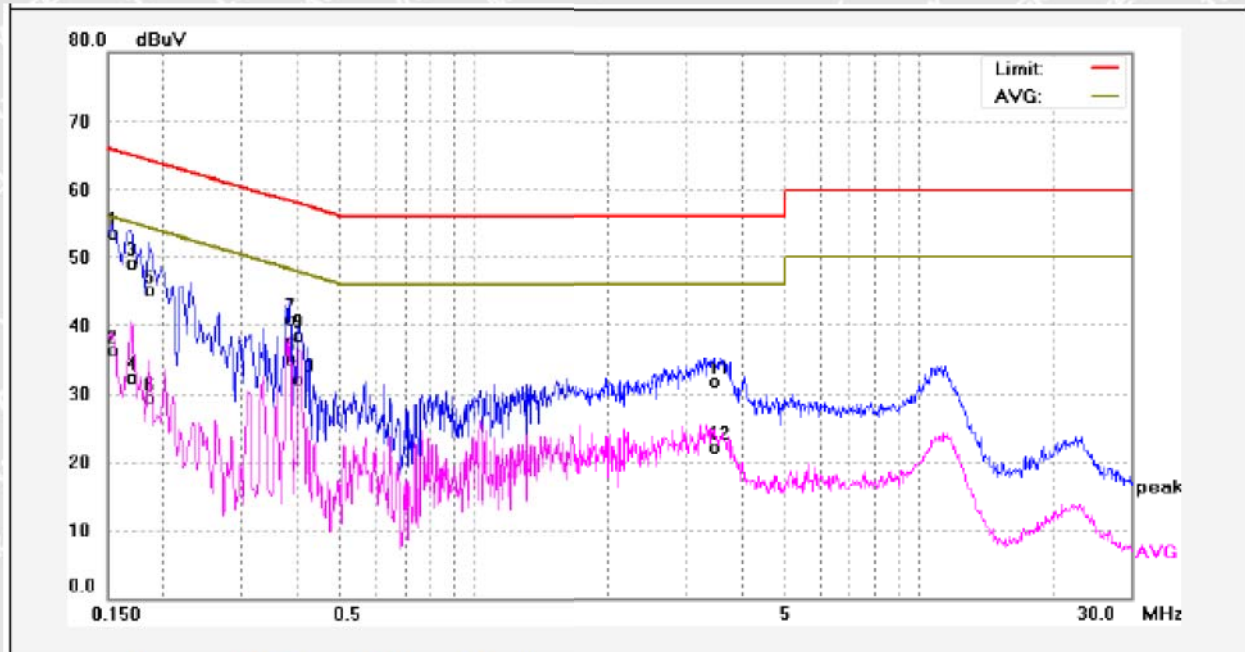


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1620	38.39	9.74	48.13	65.36	-17.23	QP	
2	0.1620	21.50	9.74	31.24	55.36	-24.12	AVG	
3	0.1700	36.39	9.74	46.13	64.96	-18.83	QP	
4	0.1700	18.97	9.74	28.71	54.96	-26.25	AVG	
5	0.1819	35.40	9.75	45.15	64.39	-19.24	QP	
6	0.1819	18.85	9.75	28.60	54.39	-25.79	AVG	
7	0.2020	31.47	9.76	41.23	63.52	-22.29	QP	
8	0.2020	15.69	9.76	25.45	53.52	-28.07	AVG	
9	0.4260	32.09	9.75	41.84	57.33	-15.49	QP	
10	0.4260	24.07	9.75	33.82	47.33	-13.51	AVG	
11	13.6540	21.37	10.37	31.74	60.00	-28.26	QP	
12	13.6540	14.88	10.37	25.25	50.00	-24.75	AVG	



Adapter2:

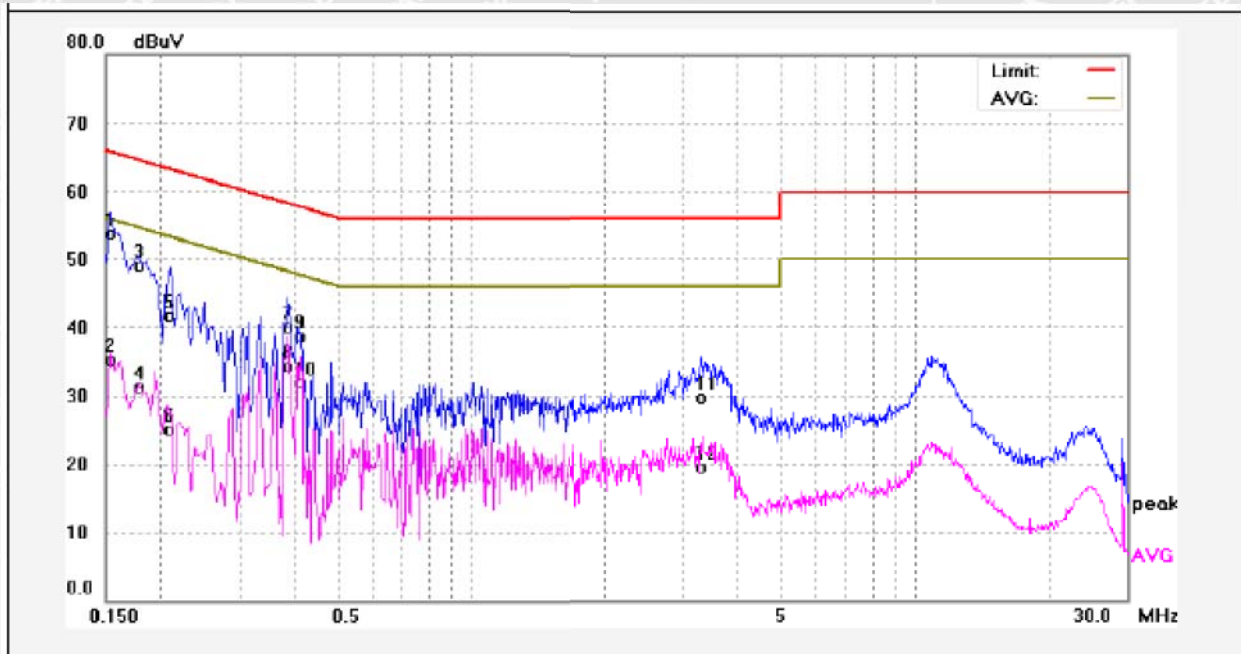
Live Line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1539	43.68	9.75	53.43	65.78	-12.35	QP	
2	0.1539	26.56	9.75	36.31	55.78	-19.47	AVG	
3	0.1700	39.42	9.74	49.16	64.96	-15.80	QP	
4	0.1700	22.47	9.74	32.21	54.96	-22.75	AVG	
5	0.1860	35.33	9.75	45.08	64.21	-19.13	QP	
6	0.1860	19.46	9.75	29.21	54.21	-25.00	AVG	
7	0.3860	31.23	9.75	40.98	58.15	-17.17	QP	
8	0.3860	25.43	9.75	35.18	48.15	-12.97	AVG	
9	0.4020	28.76	9.75	38.51	57.81	-19.30	QP	
10	0.4020	22.39	9.75	32.14	47.81	-15.67	AVG	
11	3.4540	21.85	9.91	31.76	56.00	-24.24	QP	
12	3.4540	12.14	9.91	22.05	46.00	-23.95	AVG	



Neutral Line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1539	43.97	9.75	53.72	65.78	-12.06	QP	
2	0.1539	25.47	9.75	35.22	55.78	-20.56	AVG	
3	0.1780	39.27	9.75	49.02	64.57	-15.55	QP	
4	0.1780	21.60	9.75	31.35	54.57	-23.22	AVG	
5	0.2100	31.85	9.76	41.61	63.20	-21.59	QP	
6	0.2100	15.42	9.76	25.18	53.20	-28.02	AVG	
7	0.3860	30.44	9.75	40.19	58.15	-17.96	QP	
8	0.3860	24.48	9.75	34.23	48.15	-13.92	AVG	
9	0.4100	28.92	9.75	38.67	57.65	-18.98	QP	
10	0.4100	22.09	9.75	31.84	47.65	-15.81	AVG	
11	3.3100	19.88	9.91	29.79	56.00	-26.21	QP	
12	3.3100	9.54	9.91	19.45	46.00	-26.55	AVG	



5.2 Radiation Emission, 30MHz to 1000MHz

Test Requirement	FCC PART 15, SUBPART B
Test Method	ANSI C63.4
Test Result	Pass
Frequency Range	30MHz to 1000MHz
Class	Class B
Limit	

Frequency (MHz)	Distance (Meter)	Limit (dB μ V/m)
		Quasi-peak
30 to 88	3	40
88 to 216	3	43.5
216 to 960	3	46
960 to 1000	3	54

5.2.1 E.U.T. Operation

Operating Environment:

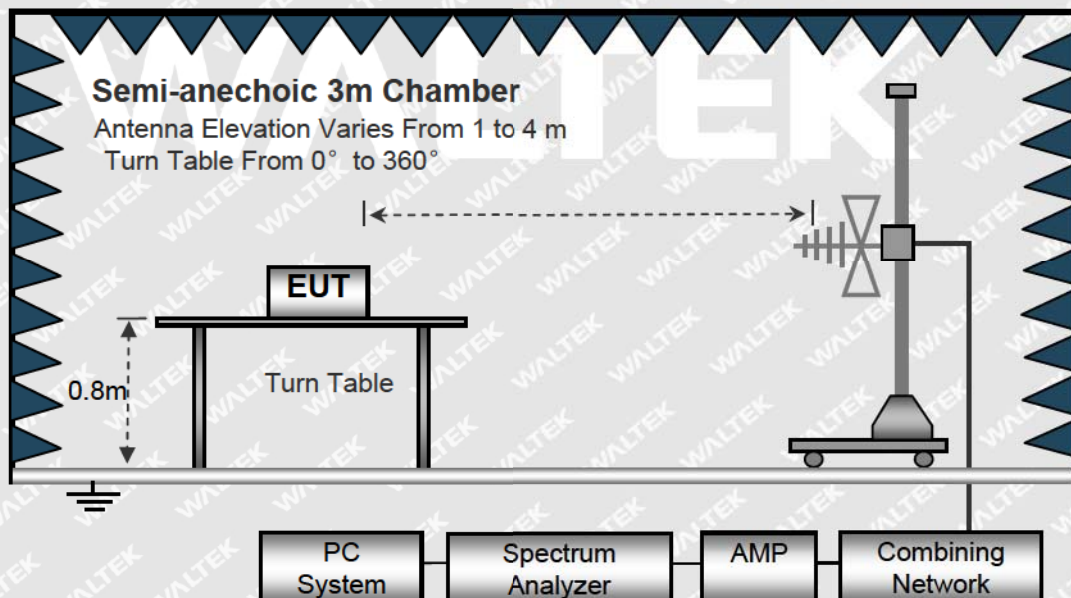
Temperature	23°C
Humidity	54.1%RH
Atmospheric Pressure	101kPa

EUT Operation:

Input Voltage	AC 120V/60Hz
Operating Mode	Charging+Aux in+USB Output+Adapter1, Charging+Aux in+USB Output+Adapter2

5.2.2 Block Diagram of Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.





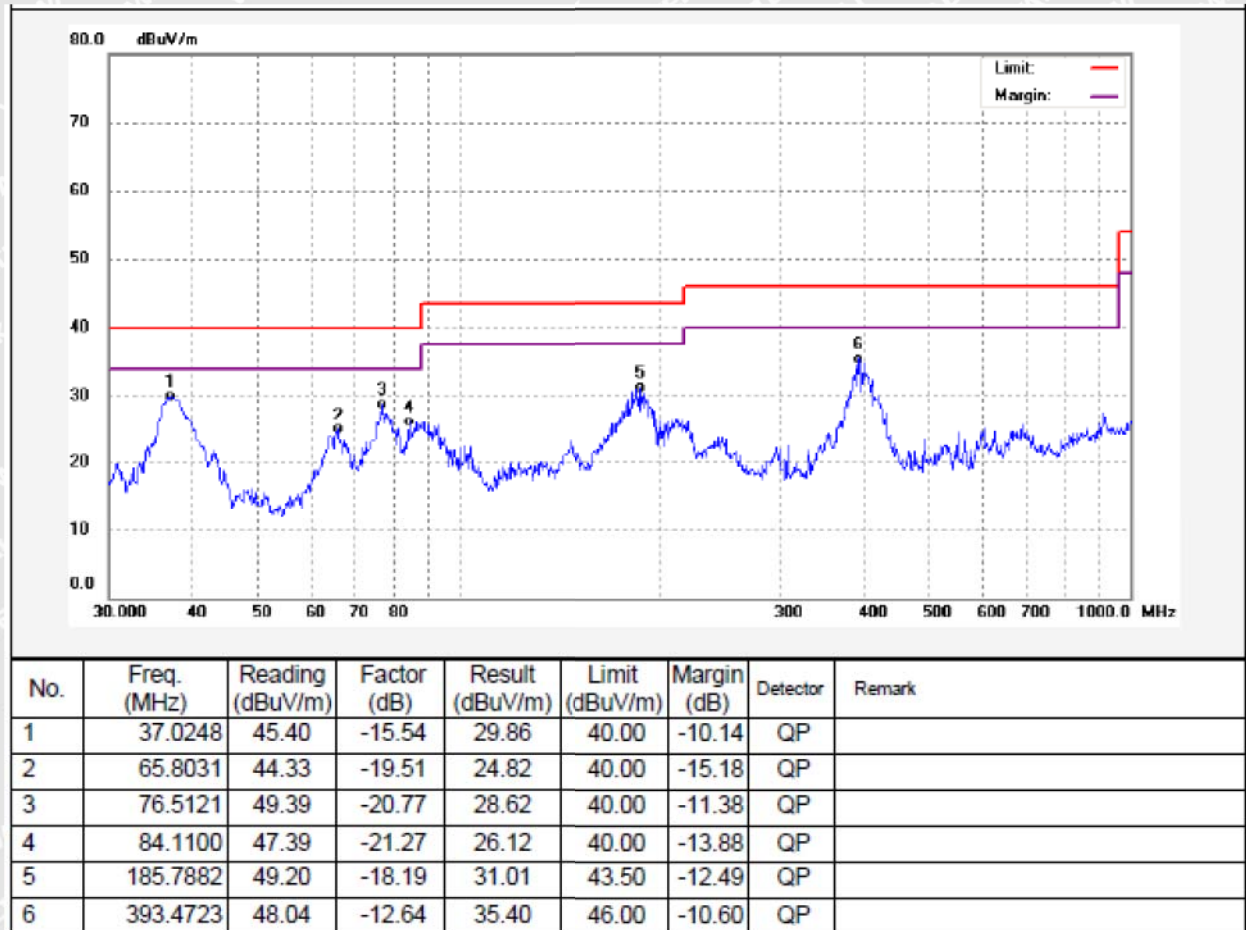
5.2.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Antenna Vertical Polarization and Antenna Horizontal Polarization. Quasi-peak measurements were performed if peak emissions were within 6dB of the Quasi-peak limit line.

5.2.4 Radiated Emission Test Data, 30MHz to 1000MHz

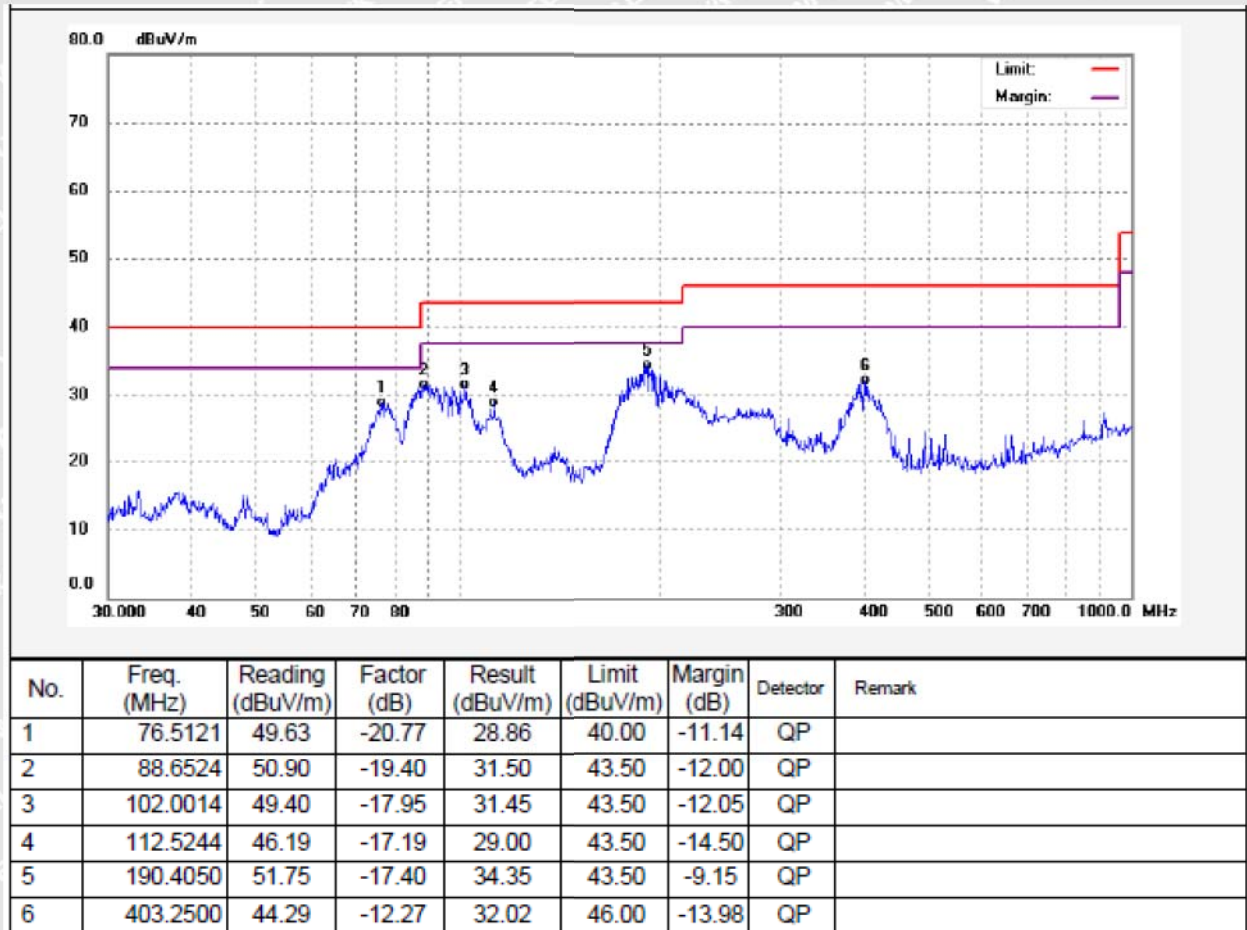
Adapter1:

Antenna Polarization: Vertical





Antenna Polarization: Horizontal

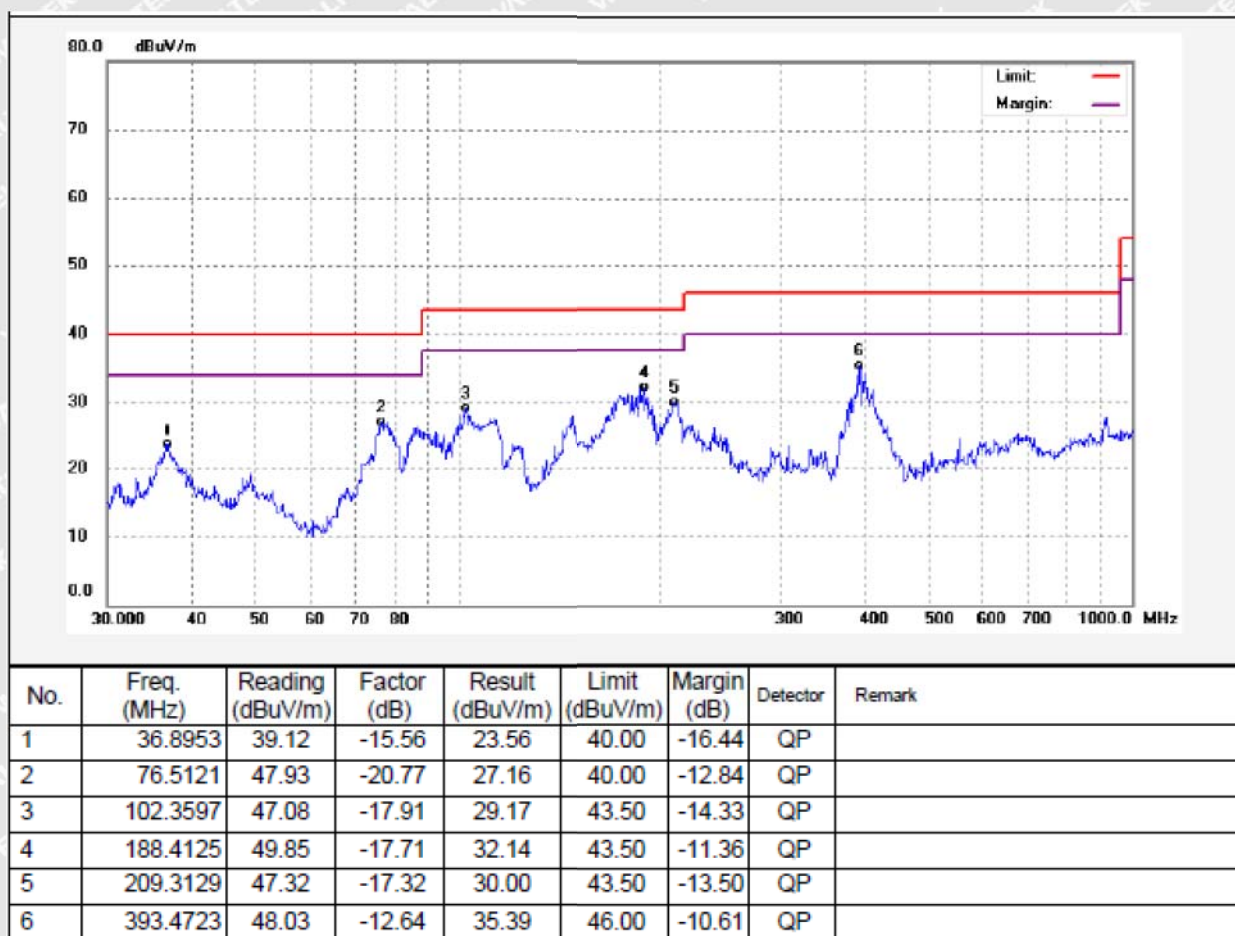


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Adapter2:

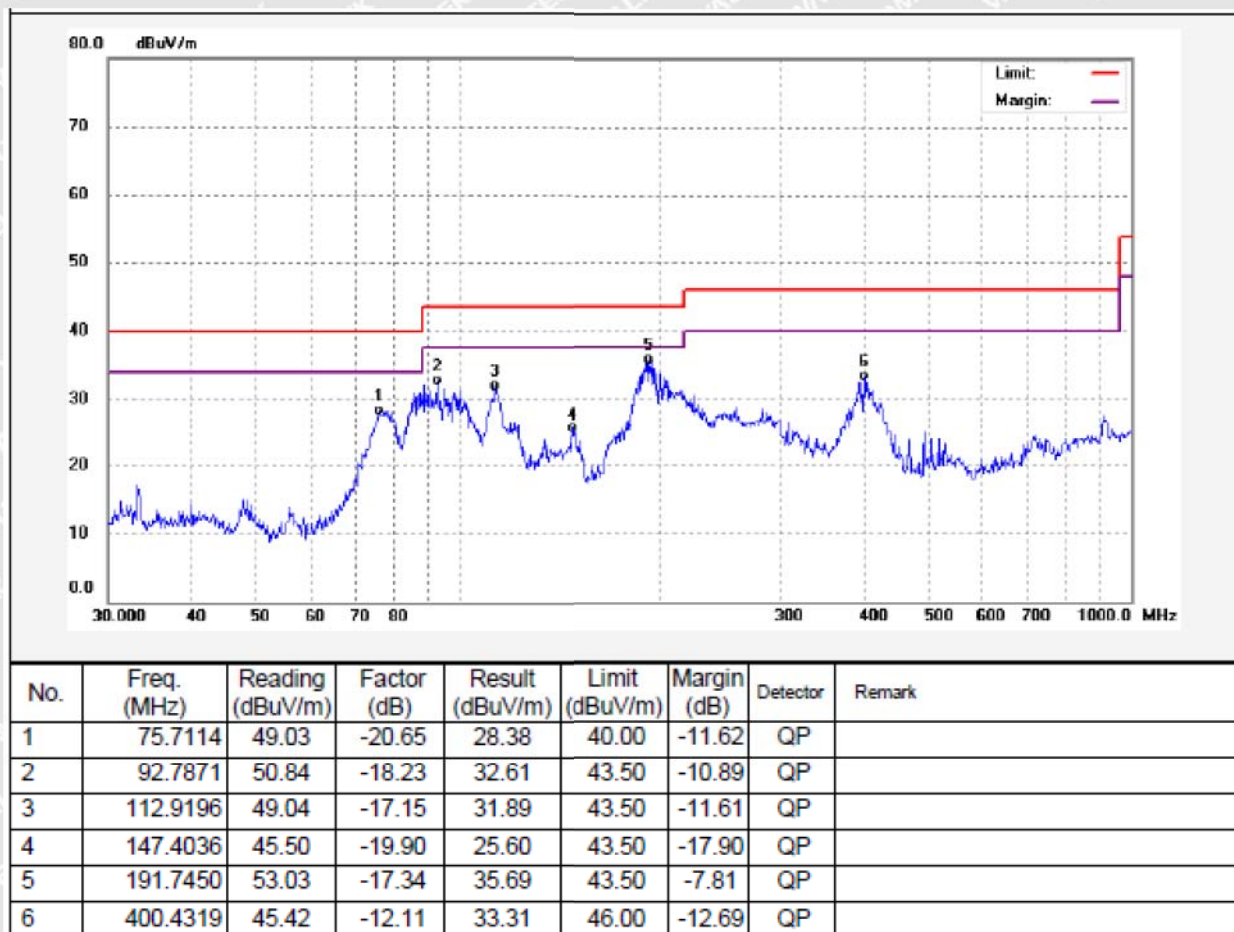
Antenna Polarization: Vertical



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Antenna Polarization: Horizontal



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6 Photographs – Test Setup

6.1 Photograph –Power Line Conducted Emission Test Setup

Adapter 1



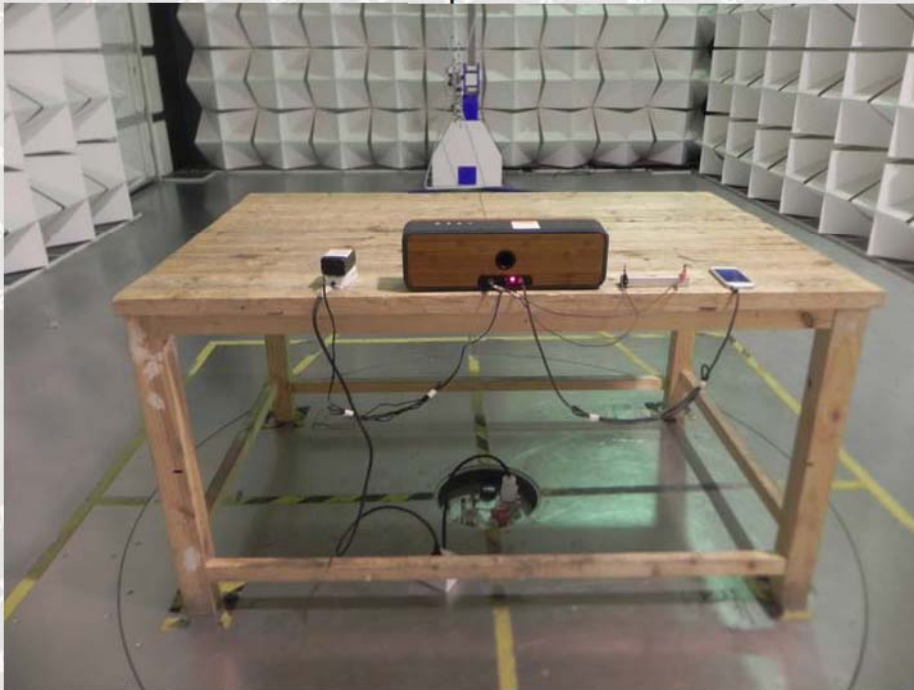
Adapter 2



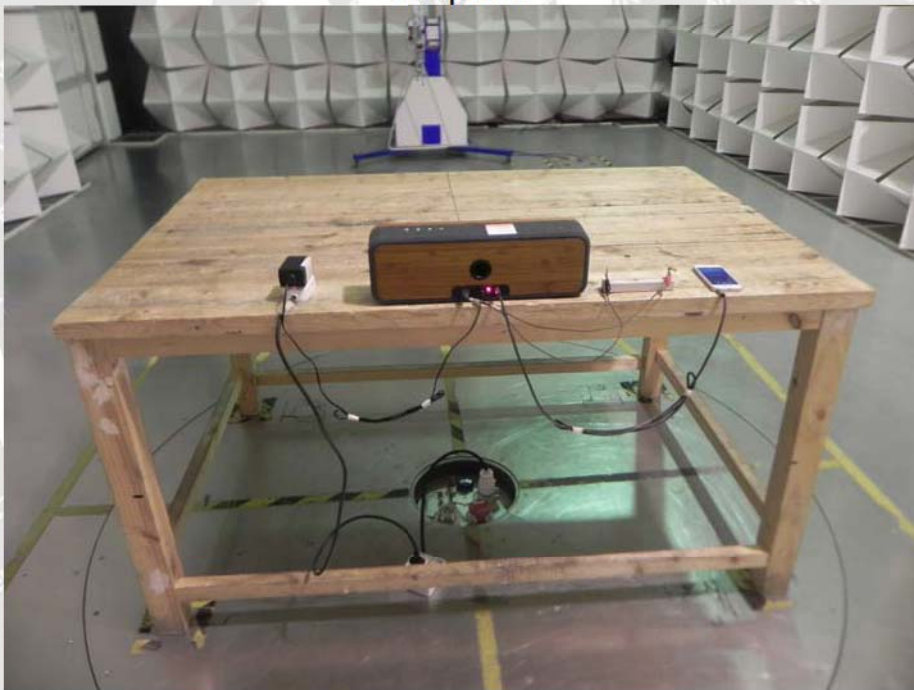


6.2 Photograph – Radiated Emission Test Setup for 30MHz~1000MHz

Adapter 1



Adapter 2





7 Photographs – Constructional Details

7.1 Model EM- JA006B – Appearance View

For All with Adapter 1



For All with Adapter 2











Adapter 1



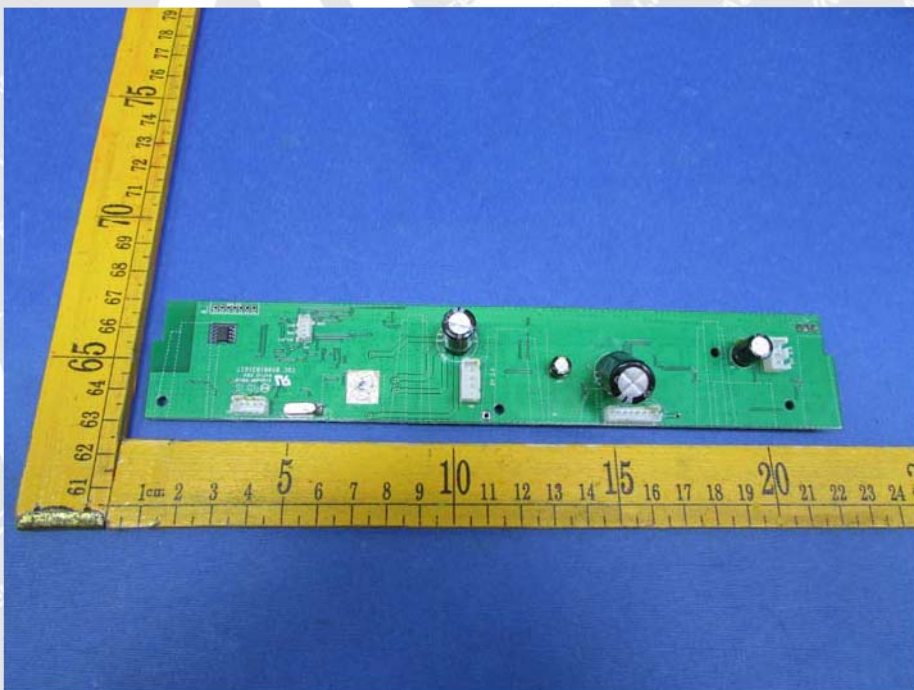


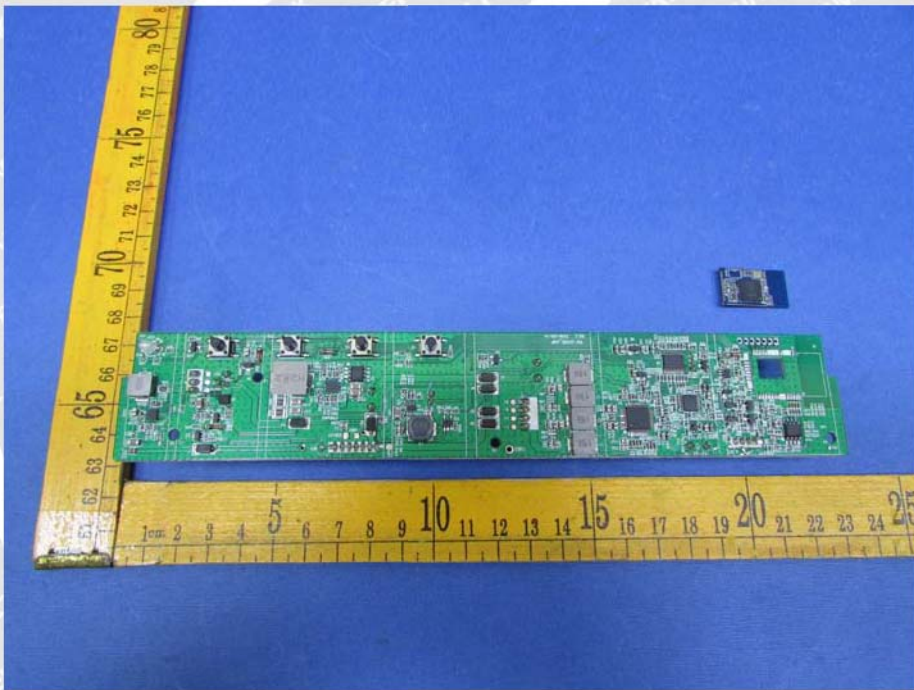
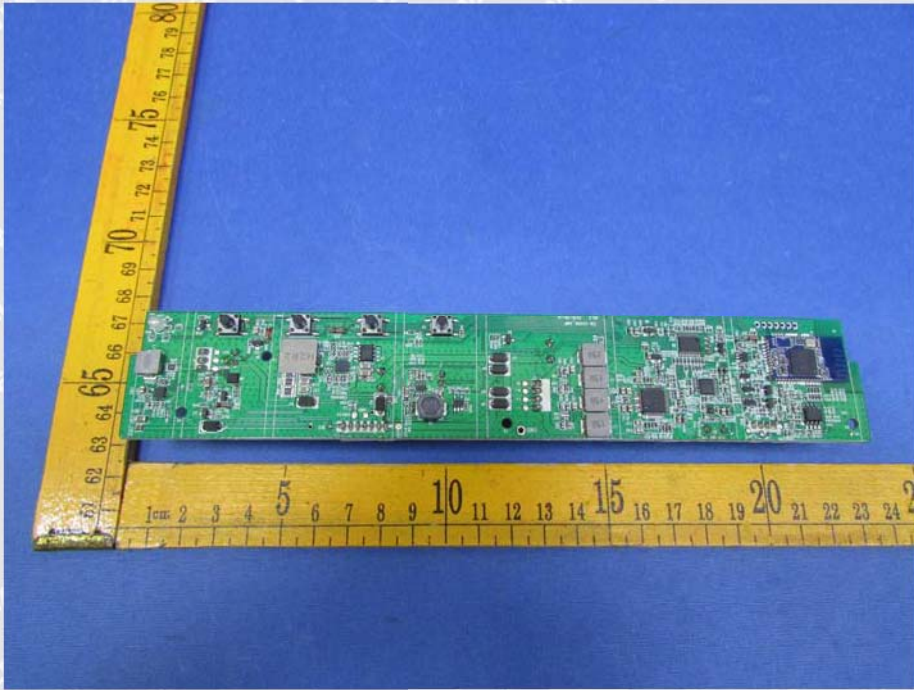
Adapter 2

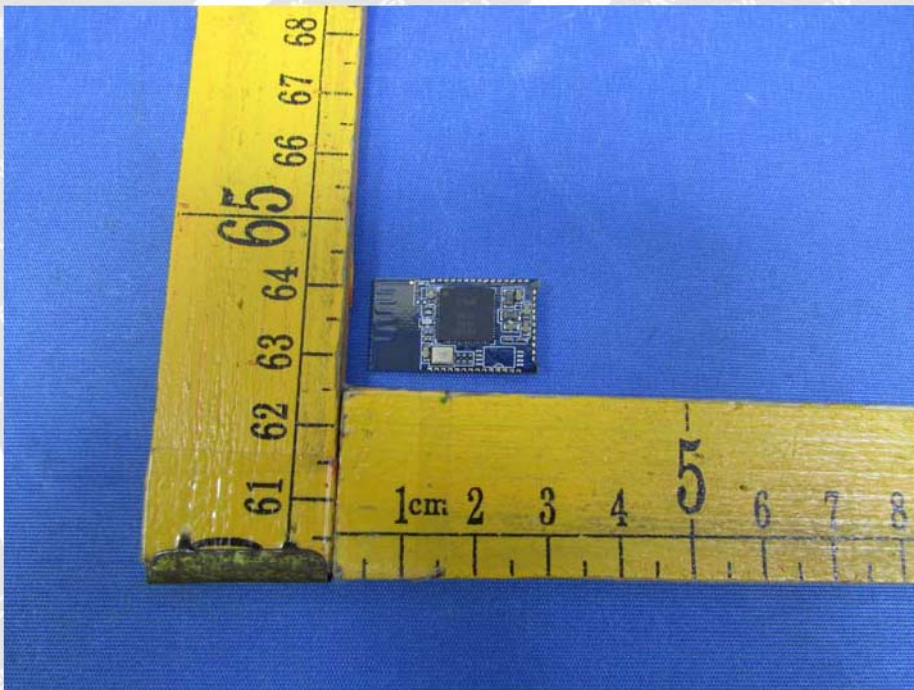
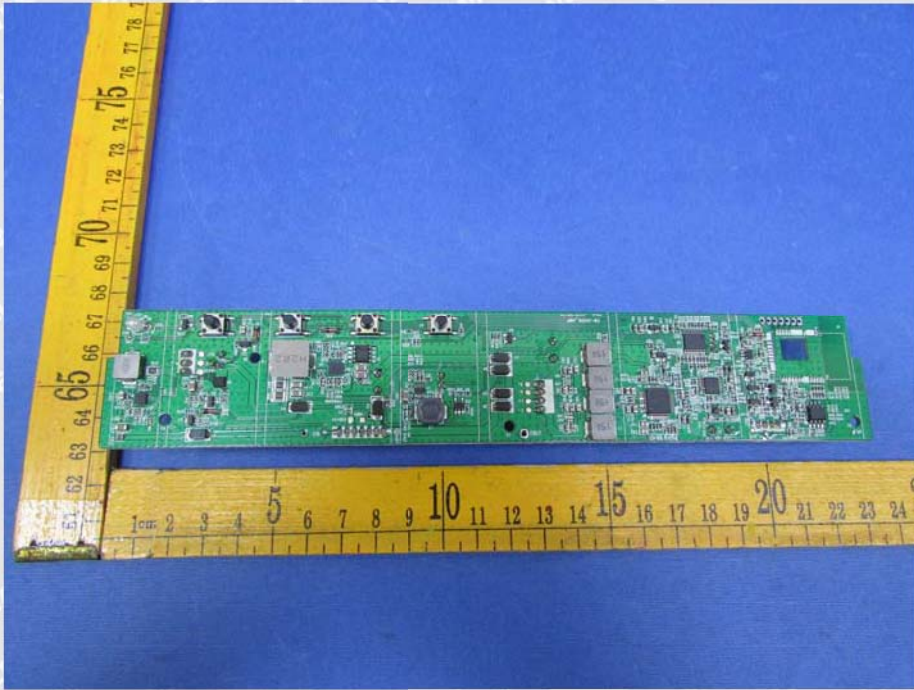


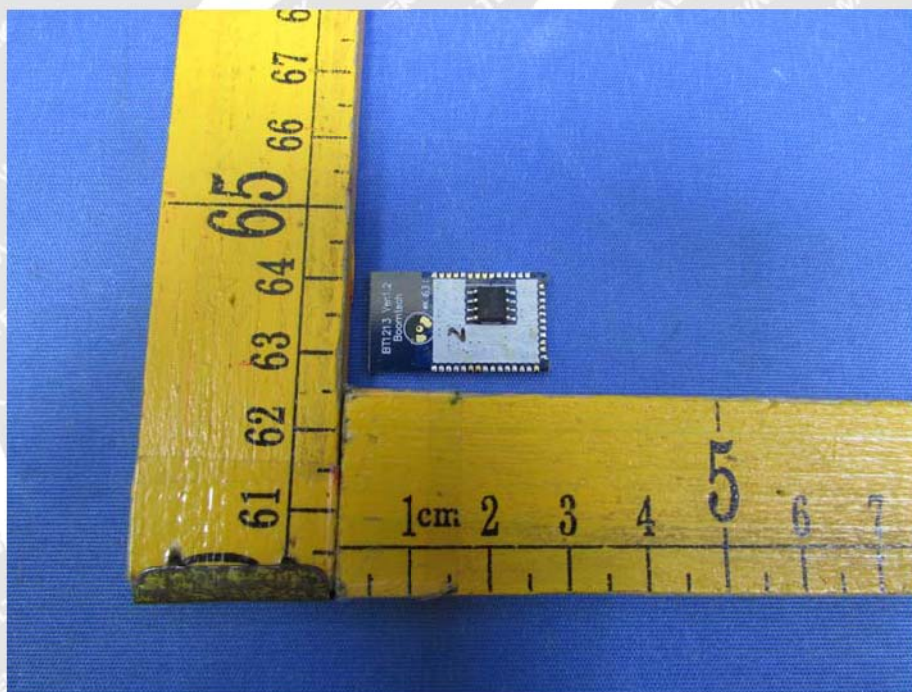
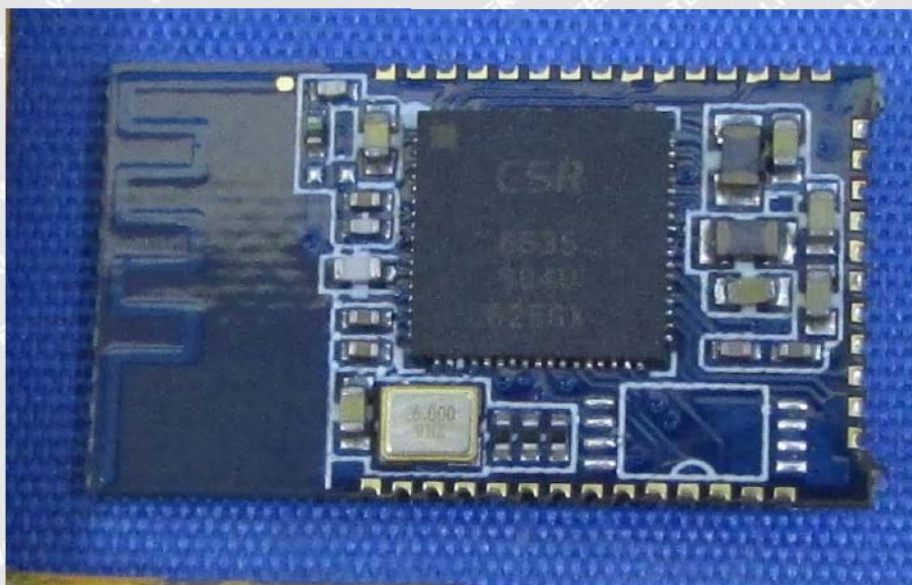


7.2 Model EM- JA006B – Open View

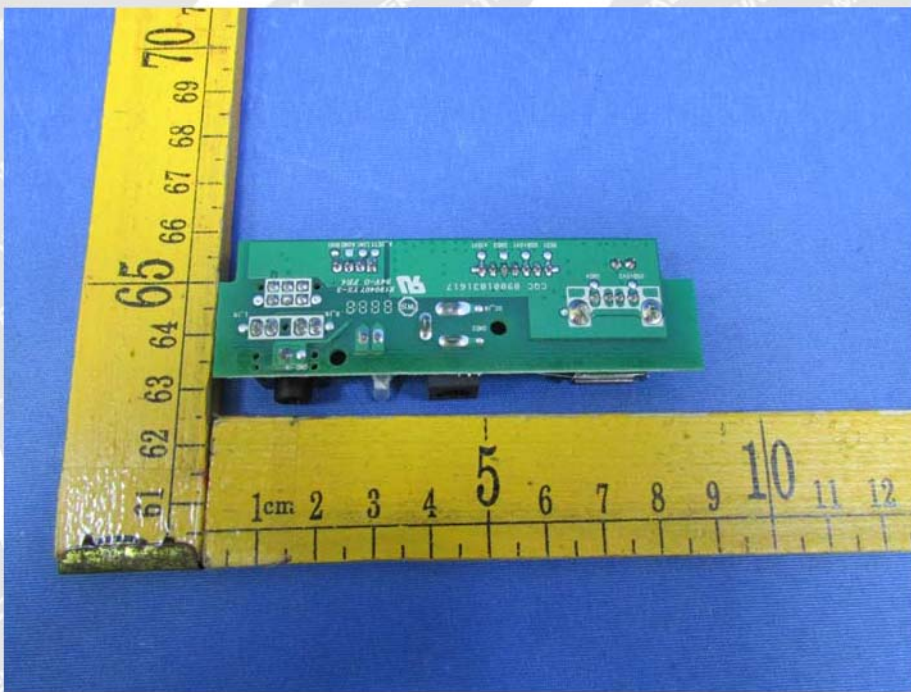
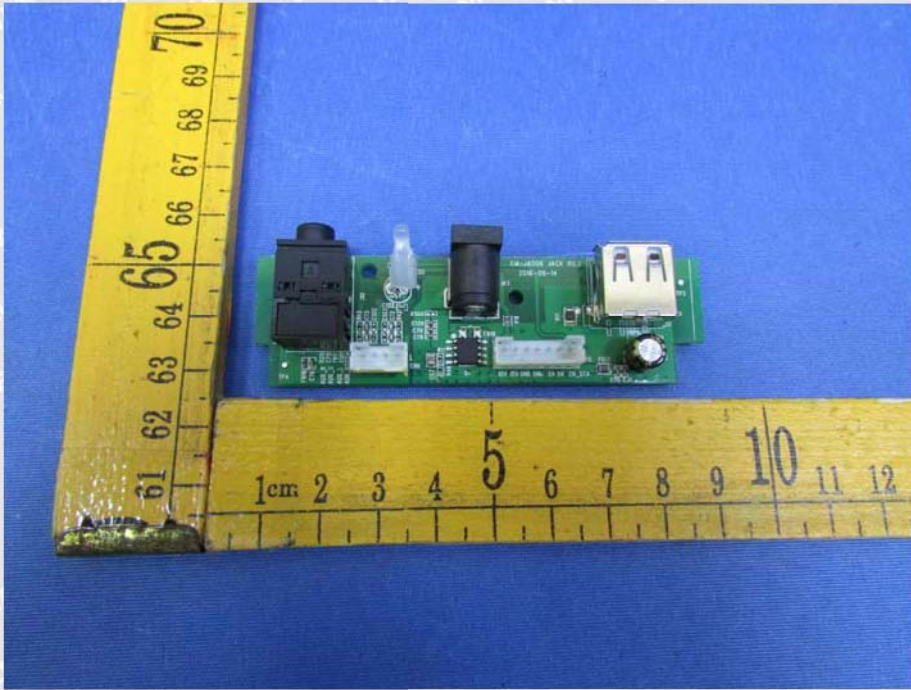












=====End of Report=====