



# FCC PART 15B

# TEST REPORT

For

## Binatone Electronics International Ltd.

Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong, China

**FCC ID: VLJ-THEBRICK**

<b>Report Type:</b> Original Report	<b>Product Type:</b> GSM phone
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<b>Report Number:</b> R2DG130821008-00A	
<b>Report Date:</b> 2013-09-24	
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 This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

**TABLE OF CONTENTS**

**GENERAL INFORMATION.....3**  
    PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....3  
    OBJECTIVE .....3  
    RELATED SUBMITTAL(S)/GRANT(S).....3  
    TEST FACILITY.....3

**SYSTEM TEST CONFIGURATION.....5**  
    JUSTIFICATION .....5  
    EUT EXERCISE SOFTWARE .....5  
    EQUIPMENT MODIFICATIONS .....5  
    SUPPORT EQUIPMENT LIST AND DETAILS .....5  
    EXTERNAL CABLE.....5  
    PRINTER .....5  
    KEYBOARD .....5  
    BLOCK DIAGRAM OF TEST SETUP .....6

**SUMMARY OF TEST RESULTS .....7**

**FCC §15.107 – AC LINE CONDUCTED EMISSIONS.....8**  
    MEASUREMENT UNCERTAINTY .....8  
    EUT SETUP .....8  
    EMI TEST RECEIVER SETUP.....9  
    TEST PROCEDURE .....9  
    CORRECTED AMPLITUDE & MARGIN CALCULATION .....9  
    TEST EQUIPMENT LIST AND DETAILS.....10  
    TEST RESULTS SUMMARY .....10  
    TEST DATA .....10

**FCC §15.109 - RADIATED EMISSIONS .....15**  
    MEASUREMENT UNCERTAINTY .....15  
    EUT SETUP .....15  
    EMI TEST RECEIVER SETUP.....16  
    TEST PROCEDURE .....16  
    CORRECTED AMPLITUDE & MARGIN CALCULATION .....16  
    TEST EQUIPMENT LIST AND DETAILS.....17  
    TEST RESULTS SUMMARY .....17  
    TEST DATA .....17

**DECLARATION LETTER .....26**

## GENERAL INFORMATION

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### Product Description for Equipment under Test (EUT)

The *Binatone Electronics International Ltd.*'s product, model number: *The Brick Power (FCC ID: VLJ-THEBRICK)* (the "EUT") in this report was a *GSM phone*, which was measured approximately: 5.0 cm (L) x 4.4cm (W) x 26.0 cm (H), rated input voltage: DC 3.7V from three kinds of lithium batteries (1000mA only for The Brick, 2000mA and 5200mA for The Brick Power) or DC 5V from adapter.

#### Adapter Information:

MODEL: A31-501000

INPUT: AC 100-240V, 50/60Hz, 0.2A

OUTPUT: DC 5.0V, 1000mA

*Note: the series product, model The Brick has better electromagnetic compatibility performance, the Brick hasn't the USB connector or power bank related components on PCBA, the Brick Power has the USB connector and power bank related components on PCBA. We selected The Brick Power for fully testing, and the difference between them please refers to the attached declaration letter.*

*\* All measurement and test data in this report was gathered from production sample serial number: 130821008 (Assigned by BACL.Dongguan). The EUT was received on 2013-08-26.*

### Objective

This report is prepared on behalf of *Binatone Electronics International Ltd.* in accordance with Part 2, Subpart J, Part 15, Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine compliance with FCC Part 15B, Class B.

### Related Submittal(s)/Grant(s)

FCC Part 15C DSS submissions with FCC ID: *VLJ-THEBRICK* for Bluetooth.

FCC Part 22H&24E PCT submissions with FCC ID: *VLJ-THEBRICK*.

### Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 02, 2012. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Dongguan) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 500069-0).



The current scope of accreditations can be found at <http://ts.nist.gov/standards/scopes/5000690.htm>

## SYSTEM TEST CONFIGURATION

### Justification

The system was configured for testing in a typical fashion (as normally used by a typical user). The highest operating frequency is 1200 MHz.

Test mode 1: USB Downloading

Test mode 2: Charging

### EUT Exercise Software

No software was used.

### Equipment Modifications

No modification was made to the EUT.

### Support Equipment List and Details

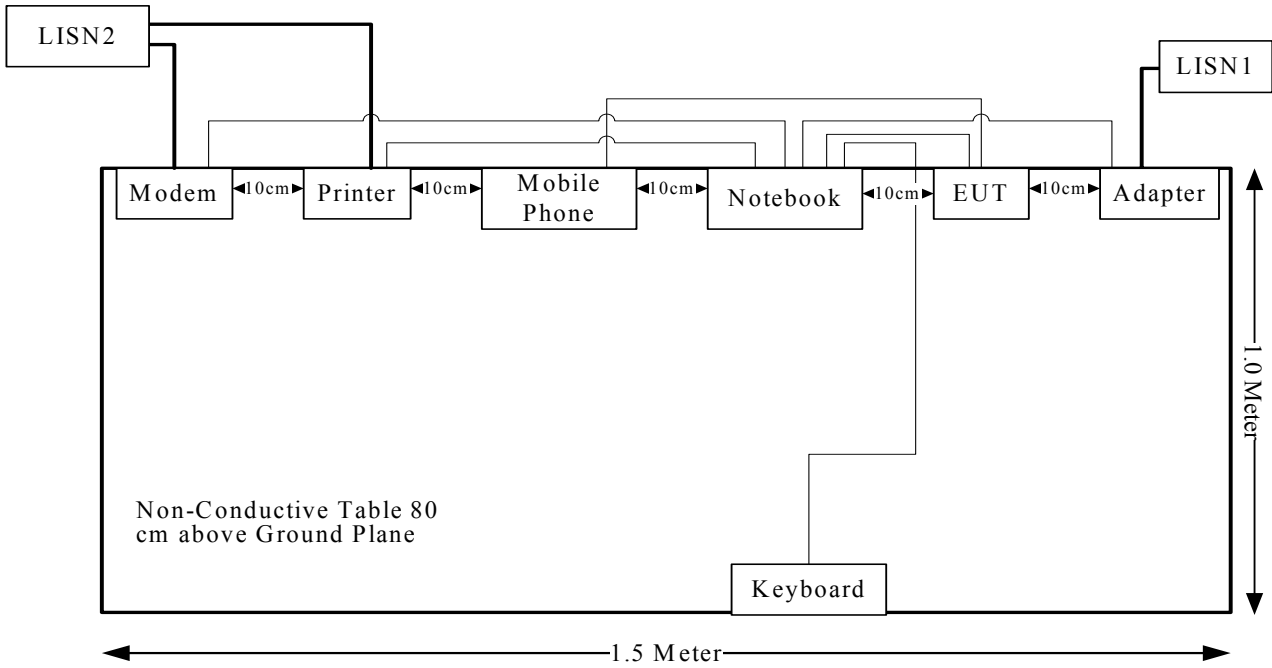
Manufacturer	Description	Model	Serial Number
HP	Printer	C3941A	JPTVOB2337
DELL	Keyboard	L100	CNORH656658907BL05DC
SAST	Modem	AEM-2100	0293
DELL	PC	GX620	/
Bea-fon	mobile phone	SL205	/

### External Cable

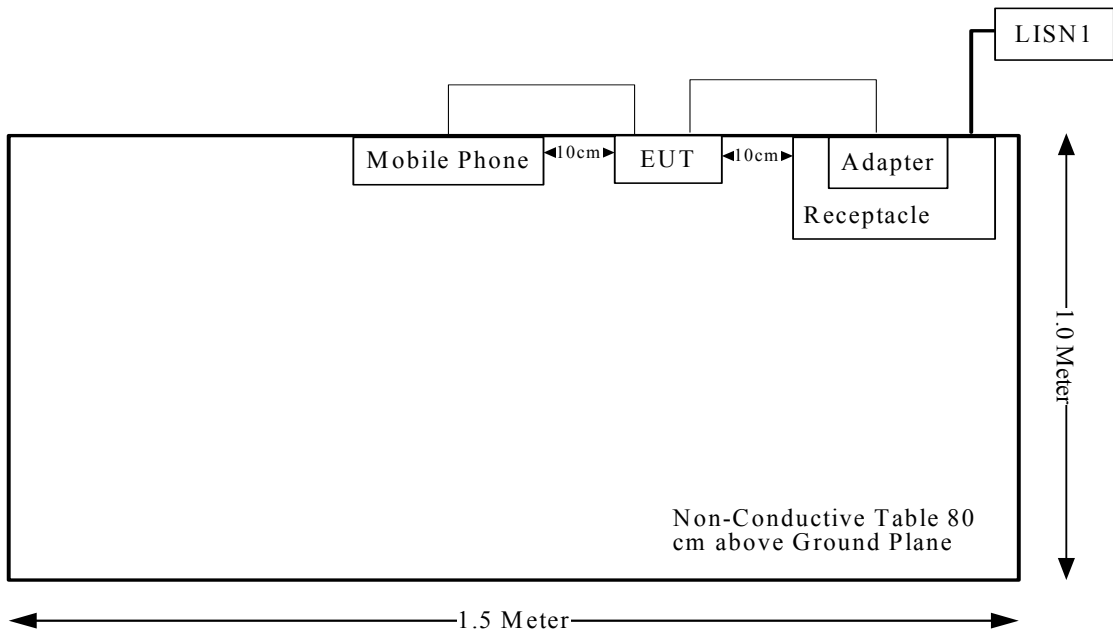
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Detachable Printer Cable	YES	NO	1.2	Parallel Port of Notebook	Printer
Detachable Serial Cable	YES	NO	1.2	Serial Port of Notebook	Modem
Detachable Keyboard Cable	YES	YES	1.5	Keyboard Port of Notebook	Keyboard
USB Cable	YES	NO	1.23	Adapter	EUT
USB Cable	YES	NO	1.23	mobile phone	EUT

### Block Diagram of Test Setup

Mode: USB Downloading



Mode: Charging



## **SUMMARY OF TEST RESULTS**

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<b>FCC Rules</b>	<b>Description of Test</b>	<b>Results</b>
§15.107	AC Line Conducted Emissions	Compliance
§15.109	Radiated Emissions	Compliance

## FCC §15.107 – AC LINE CONDUCTED EMISSIONS

### Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If  $U_{lab}$  is less than or equal to  $U_{cispr}$  of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If  $U_{lab}$  is greater than  $U_{cispr}$  of Table 1, then:

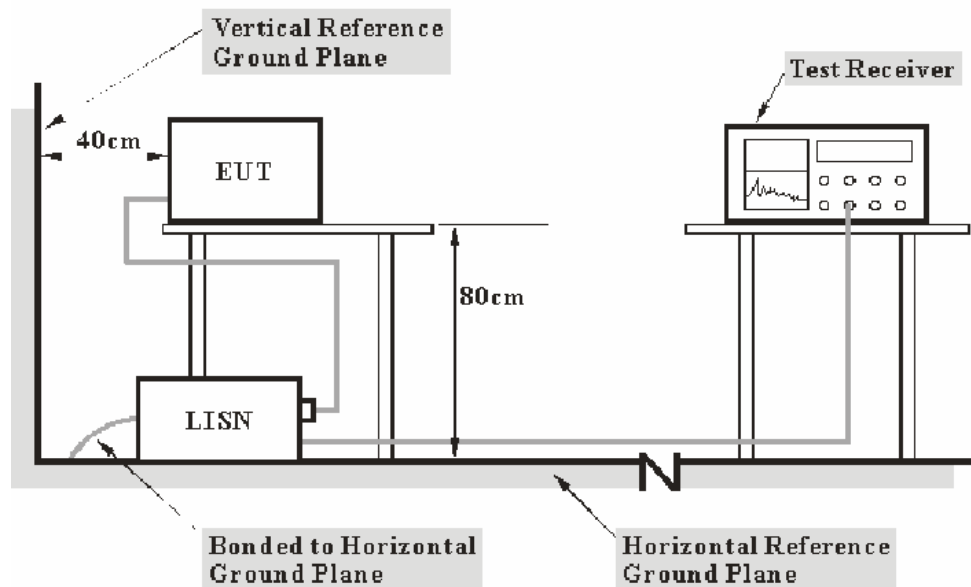
- compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of  $U_{cispr}$

Measurement	$U_{cispr}$
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

### EUT Setup



- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.



The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.107 Class B limits.

The adapter was connected to a 120 VAC/60 Hz power source.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

### Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

### Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

$$C_f = A_C + VDF$$

Herein,

$V_C$  (cord. Reading): corrected voltage amplitude

$V_R$ : reading voltage amplitude

$A_C$ : attenuation caused by cable loss

VDF: voltage division factor of AMN

$C_f$ : Correction Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI TEST RECEIVER	ESCS 30	830245/006	2012-11-29	2013-11-28
R&S	L.I.S.N	ESH3-Z5	843331/015	2013-9-17	2014-9-16
R&S	L.I.S.N	ESH3-Z5	100113	2012-11-29	2013-11-28
BACL	Test Software	BACL-EMC	V1.0-2010	N/A	N/A

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to National Primary Standards and International System of Units (SI).

### Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.107, with the worst margin reading of:

**8.57 dB at 0.640 MHz** in the **Neutral** conducted mode of charging for model adapter 2

### Test Data

#### Environmental Conditions

<b>Temperature:</b>	27.4 °C
<b>Relative Humidity:</b>	53 %
<b>ATM Pressure:</b>	99.4 kPa

*The testing was performed by Leon Chen on 2013-08-27.*

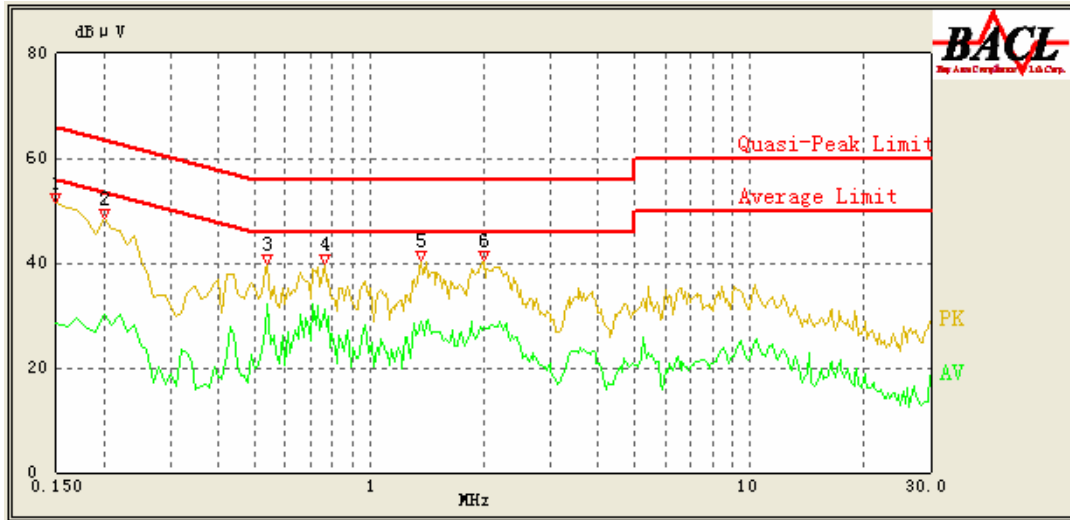
Test mode: USB Downloading

120 V, 60 Hz, Line:



Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.210	43.75	0.42	63.21	19.46	QP
0.210	28.40	0.42	53.21	24.81	AV
0.310	41.05	0.34	59.97	18.92	QP
0.310	23.70	0.34	49.97	26.27	AV
0.430	36.36	0.32	57.25	20.89	QP
0.430	35.61	0.32	47.25	11.64	AV
0.520	35.09	0.31	56.00	20.91	QP
0.520	24.89	0.31	46.00	21.11	AV
0.730	36.35	0.31	56.00	19.65	QP
0.730	31.52	0.31	46.00	14.48	AV
1.470	31.99	0.34	56.00	24.01	QP
1.480	27.96	0.34	46.00	18.04	AV

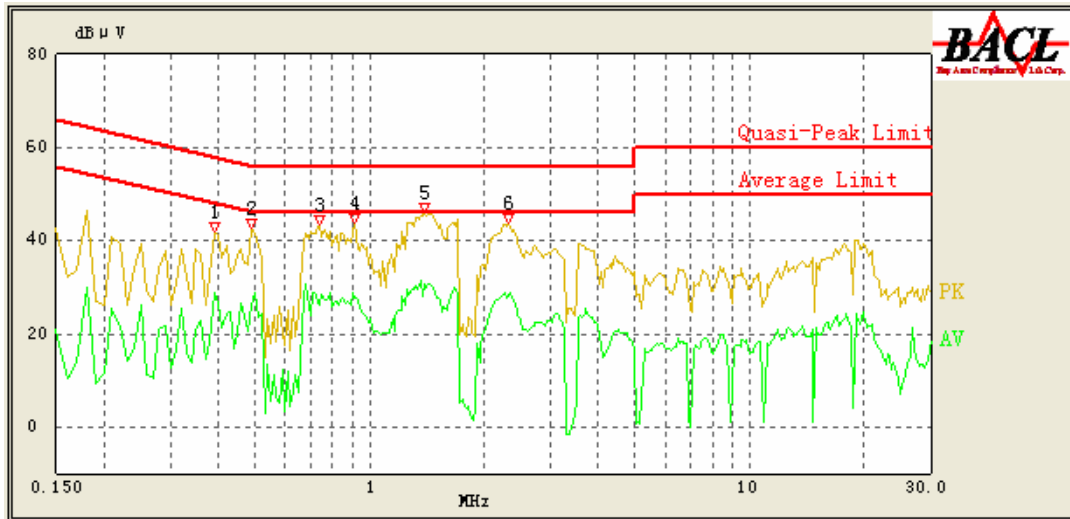
**120 V, 60 Hz, Neutral:**



Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.150	40.95	0.26	66.00	25.05	QP
0.150	28.46	0.26	56.00	27.54	AV
0.200	43.45	0.25	63.61	20.16	QP
0.200	30.23	0.25	53.61	23.38	AV
0.540	33.27	0.21	56.00	22.73	QP
0.540	32.10	0.21	46.00	13.90	AV
0.760	34.61	0.22	56.00	21.39	QP
0.760	31.09	0.22	46.00	14.91	AV
1.360	34.94	0.24	56.00	21.06	QP
1.360	28.81	0.24	46.00	17.19	AV
2.000	30.78	0.27	56.00	25.22	QP
2.000	27.84	0.27	46.00	18.16	AV

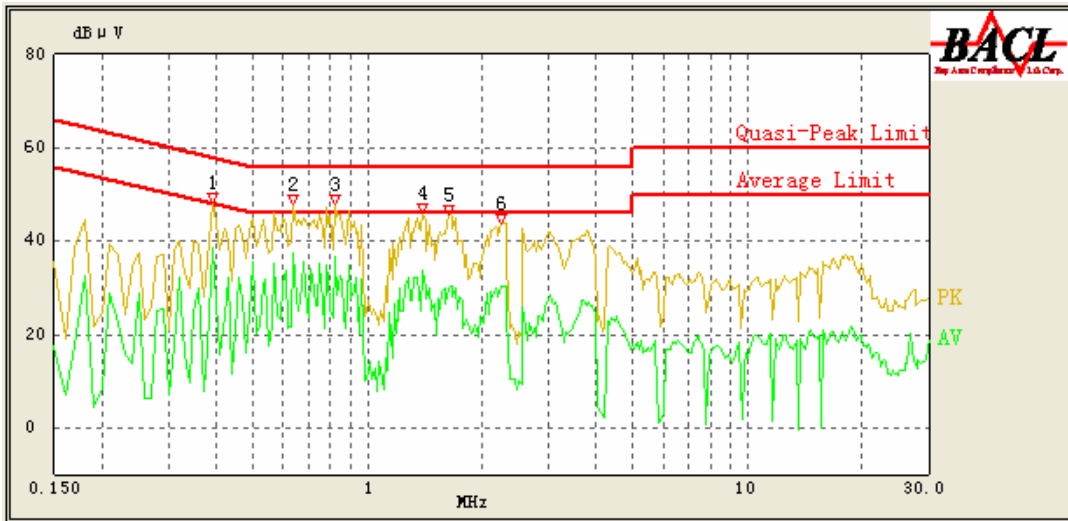
Test mode: Charging

120 V, 60 Hz, Line:



Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.390	39.46	0.33	58.06	18.60	QP
0.390	28.72	0.33	48.06	19.34	AV
0.490	35.42	0.31	56.17	20.75	QP
0.490	26.31	0.31	46.17	19.86	AV
0.740	32.86	0.31	56.00	23.14	QP
0.740	26.23	0.31	46.00	19.77	AV
0.910	34.69	0.32	56.00	21.31	QP
0.910	27.71	0.32	46.00	18.29	AV
1.400	42.69	0.33	56.00	13.31	QP
1.400	30.86	0.33	46.00	15.14	AV
2.310	38.96	0.37	56.00	17.04	QP
2.300	27.63	0.37	46.00	18.37	AV

**120 V, 60 Hz, Neutral:**



Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.390	46.60	0.22	58.06	11.46	QP
0.390	38.40	0.22	48.06	9.66	AV
0.640	45.81	0.22	56.00	10.19	QP
0.640	37.43	0.22	46.00	8.57	AV
0.820	46.18	0.22	56.00	9.82	QP
0.820	36.78	0.22	46.00	9.22	AV
1.390	42.02	0.25	56.00	13.98	QP
1.390	33.75	0.25	46.00	12.25	AV
1.640	43.46	0.26	56.00	12.54	QP
1.640	29.77	0.26	46.00	16.23	AV
2.240	40.96	0.28	56.00	15.04	QP
2.240	30.49	0.28	46.00	15.51	AV

## FCC §15.109 - RADIATED EMISSIONS

### Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If  $U_{lab}$  is less than or equal to  $U_{cispr}$  of Table 2, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If  $U_{lab}$  is greater than  $U_{cispr}$  of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:

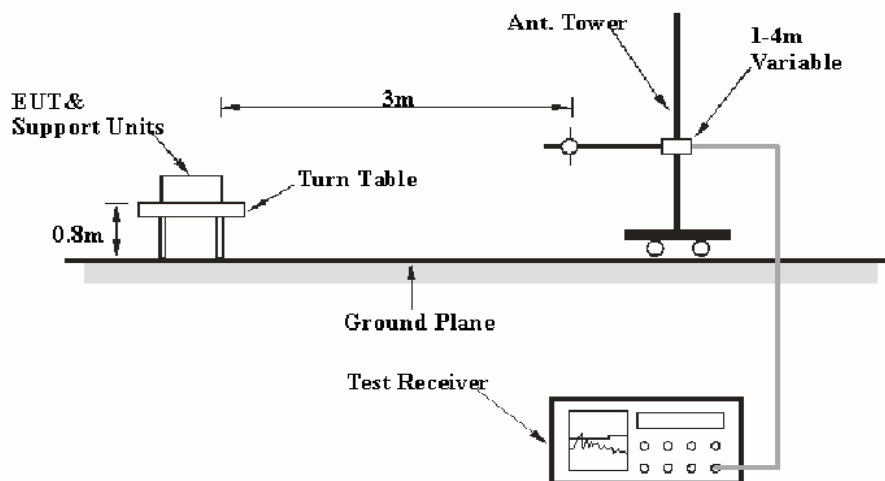
- 30M~200MHz: 5.0 dB
- 200M~1GHz: 6.2 dB
- 1G~6GHz: 4.45 dB
- 6G~18GHz: 5.23 dB

Table 2 – Values of  $U_{cispr}$

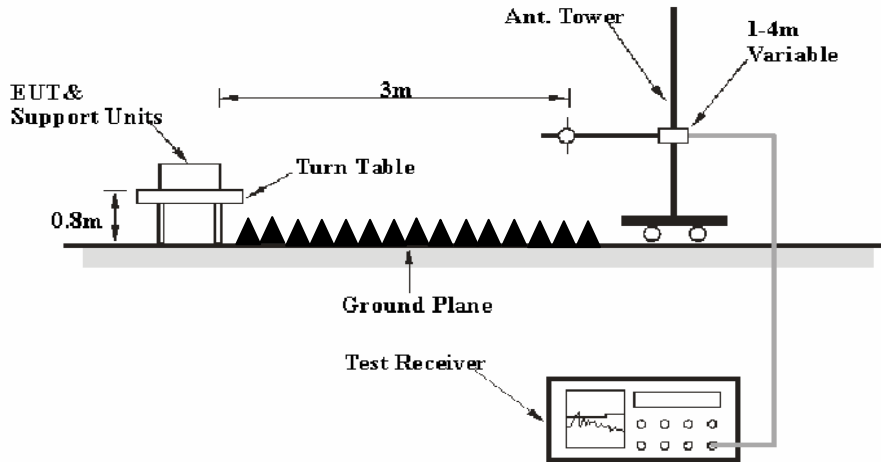
Measurement	$U_{cispr}$
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

### EUT Setup

Below 1 GHz:



**Above 1GHz:**



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC Part 15.109, Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter connected to a 120 VAC/60 Hz power source.

**EMI Test Receiver Setup**

According to FCC 15.33 requirements, the system was measured from 30 MHz to 6 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30MHz – 1000 MHz	120 kHz	300 kHz	120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

**Test Procedure**

For the radiated emissions test, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in Quasi-peak detection mode for 30 MHz to 1 GHz, Peak and average detection mode above 1 GHz.

**Corrected Amplitude & Margin Calculation**

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:



$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI TEST RECEIVER	ESCI	100224	2013-5-6	2014-5-5
Sunol Sciences	Antenna	JB3	A060611-1	2011-9-6	2014-9-5
HP	HP AMPLIFIER	8447E	2434A02181	N/A	N/A
R&S	Spectrum analyzer	FSEM 30	849016/001	2012-12-7	2013-12-6
ETS LINDGREN	horn antenna	3115	000 527 35	2012-9-6	2015-9-5
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	N/A	N/A
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to National Primary Standards and International System of Units (SI).

**Test Results Summary**

According to the data in the following table, the EUT complied with the FCC §15.109, Class B, with the worst margin reading of:

**3.10 dB at 30.9700 MHz** in the **Vertical** polarization of charging for adapter 1

**Test Data**

**Environmental Conditions**

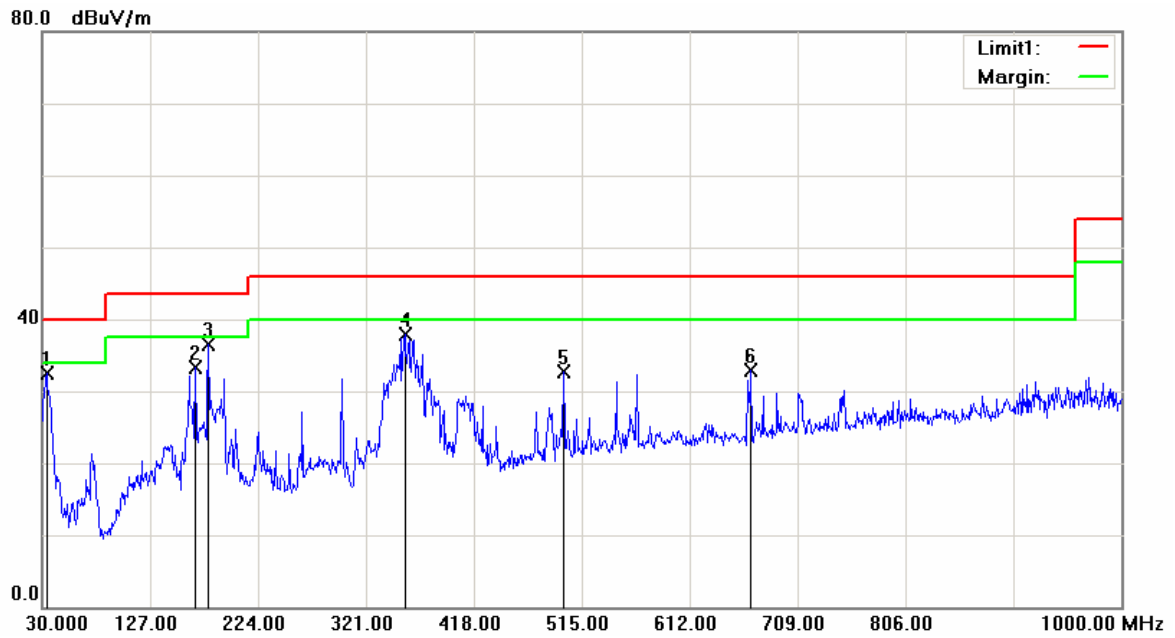
<b>Temperature:</b>	26.6 °C
<b>Relative Humidity:</b>	64 %
<b>ATM Pressure:</b>	99.4 kPa

*The testing was performed by Leon Chen on 2013-08-27.*

**1) Below 1G:**

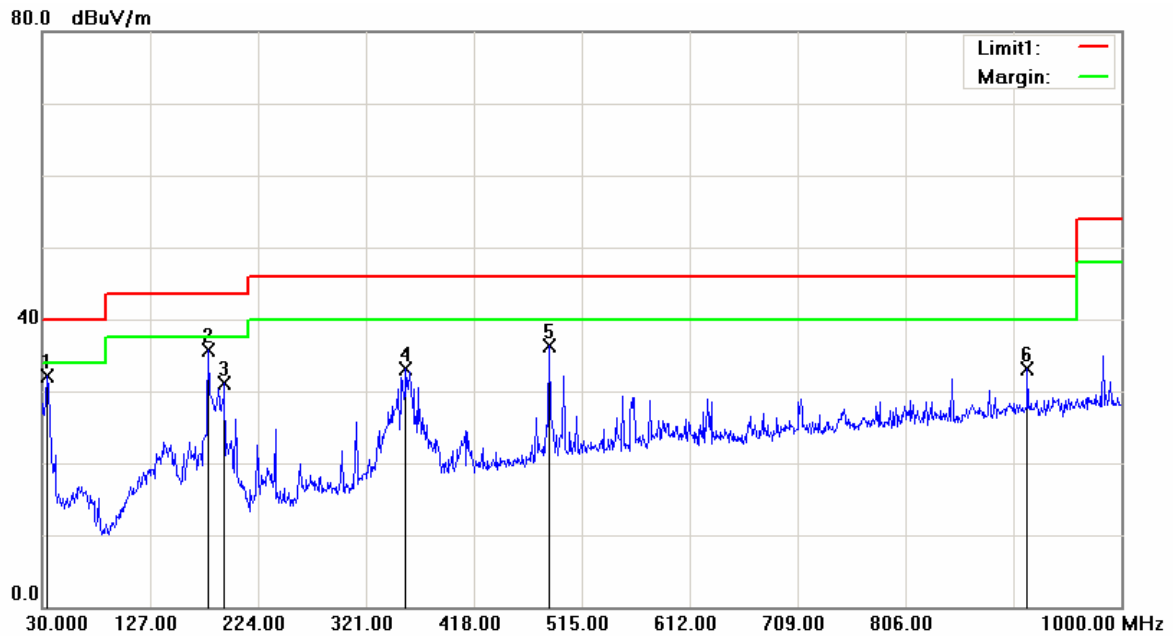
Test mode: USB Downloading

**Horizontal:**



Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
33.8800	33.75	QP	-1.30	32.45	40.00	7.55
167.7400	41.08	QP	-7.77	33.31	43.50	10.19
179.3800	45.05	QP	-8.54	36.51	43.50	6.99
355.9200	41.87	QP	-4.02	37.85	46.00	8.15
498.5100	34.08	QP	-1.37	32.71	46.00	13.29
667.2900	32.35	QP	0.65	33.00	46.00	13.00

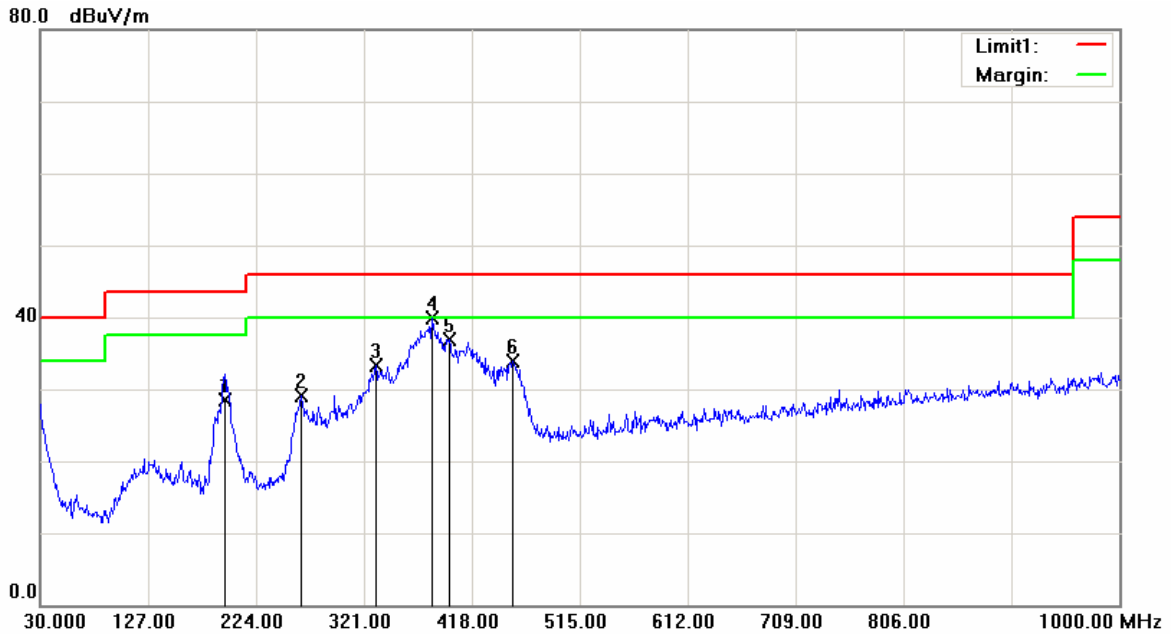
**Vertical:**



Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave)	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
33.8800	33.37	QP	-1.30	32.07	40.00	7.93
179.3800	44.24	QP	-8.54	35.70	43.50	7.80
193.9300	39.29	QP	-8.12	31.17	43.50	12.33
356.8900	37.12	QP	-3.99	33.13	46.00	12.87
485.9000	37.63	QP	-1.26	36.37	46.00	9.63
915.6100	28.77	QP	4.24	33.01	46.00	12.99

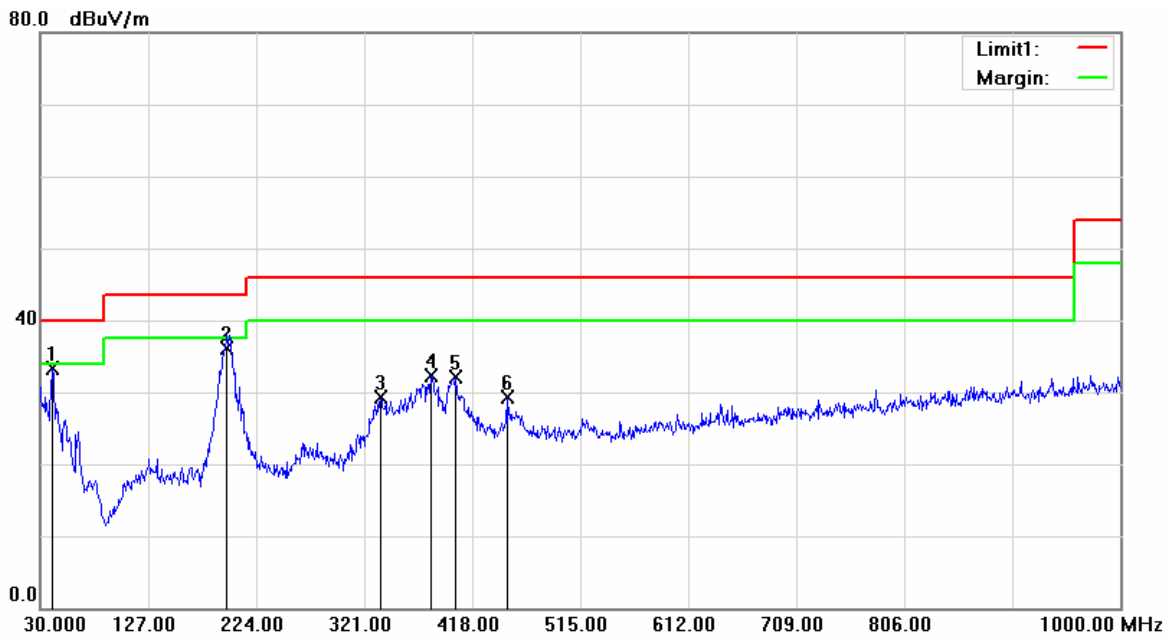
Test mode: Charging

**Horizontal:**



Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave )	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
195.8700	36.36	QP	-7.76	28.60	43.50	14.90
264.7400	35.27	QP	-6.26	29.01	46.00	16.99
331.6700	38.25	QP	-4.87	33.38	46.00	12.62
382.1100	43.59	QP	-3.68	39.91	46.00	6.09
397.6300	40.24	QP	-3.36	36.88	46.00	9.12
454.8600	35.74	QP	-1.93	33.81	46.00	12.19

**Vertical:**

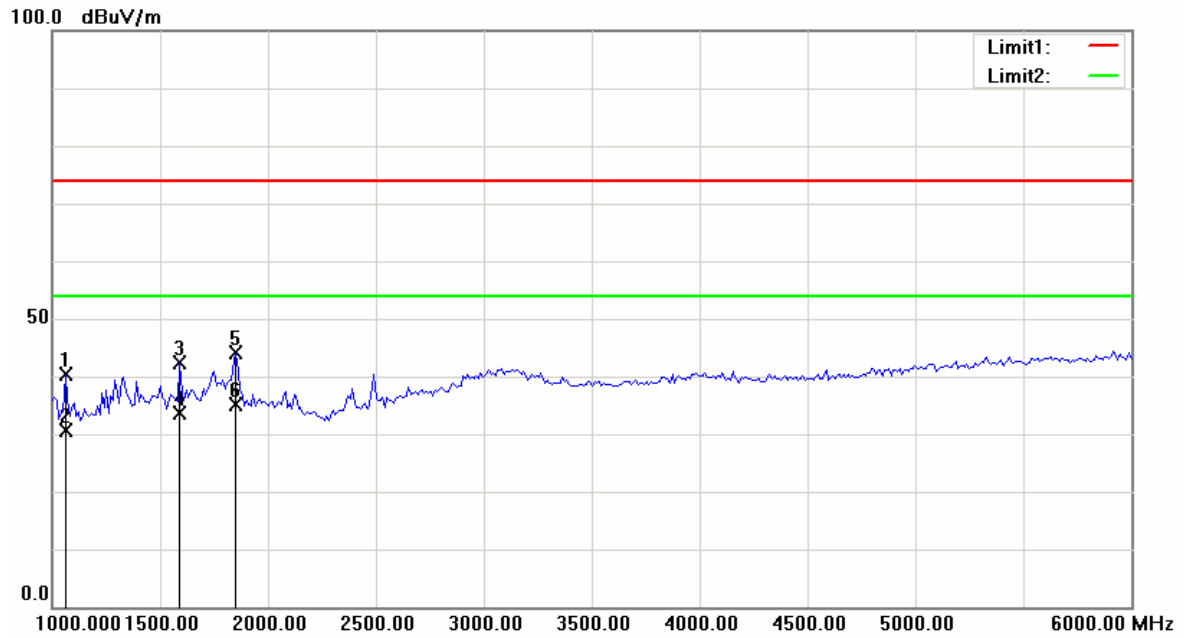


Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave )	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
40.6700	39.84	QP	-6.61	33.23	40.00	6.77
197.8100	43.39	QP	-7.19	36.20	43.50	7.30
335.5500	34.18	QP	-4.81	29.37	46.00	16.63
381.1400	36.07	QP	-3.70	32.37	46.00	13.63
403.4500	35.39	QP	-3.24	32.15	46.00	13.85
449.0400	31.57	QP	-2.32	29.25	46.00	16.75

**2) Above 1G:**

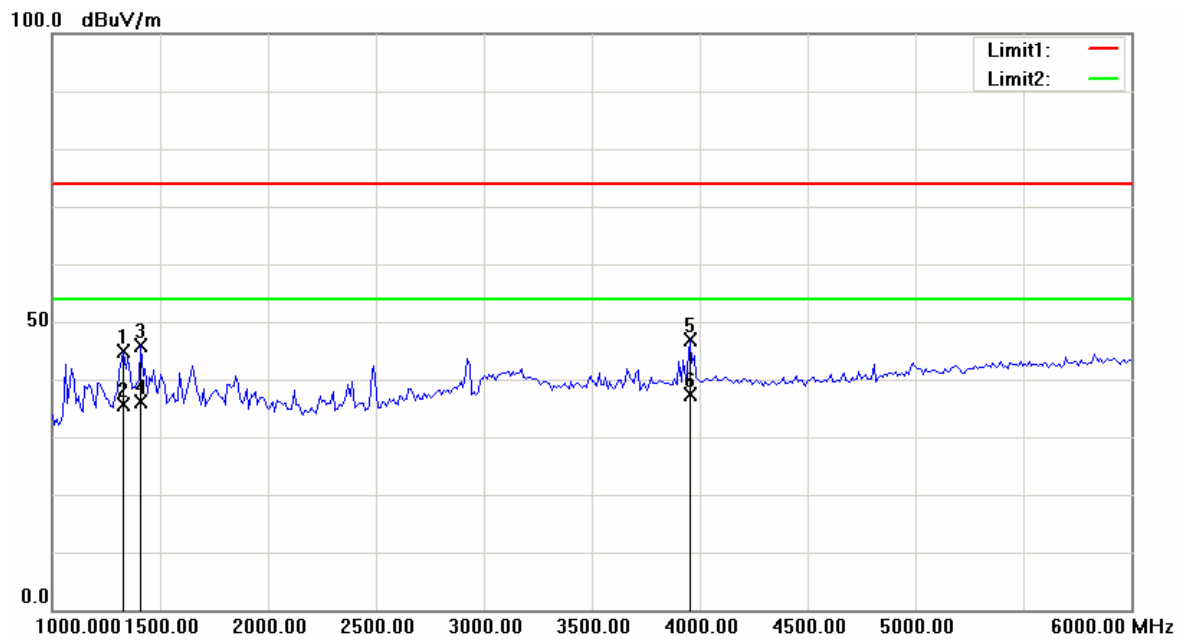
Test mode: USB Downloading

**Horizontal:**



Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave )	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1060.120	42.39	peak	-2.09	40.30	74.00	33.70
1060.120	32.61	AVG	-2.09	30.52	54.00	23.48
1591.182	42.29	peak	0.10	42.39	74.00	31.61
1591.182	33.47	AVG	0.10	33.57	54.00	20.43
1851.703	43.06	peak	1.01	44.07	74.00	29.93
1851.703	34.05	AVG	1.01	35.06	54.00	18.94

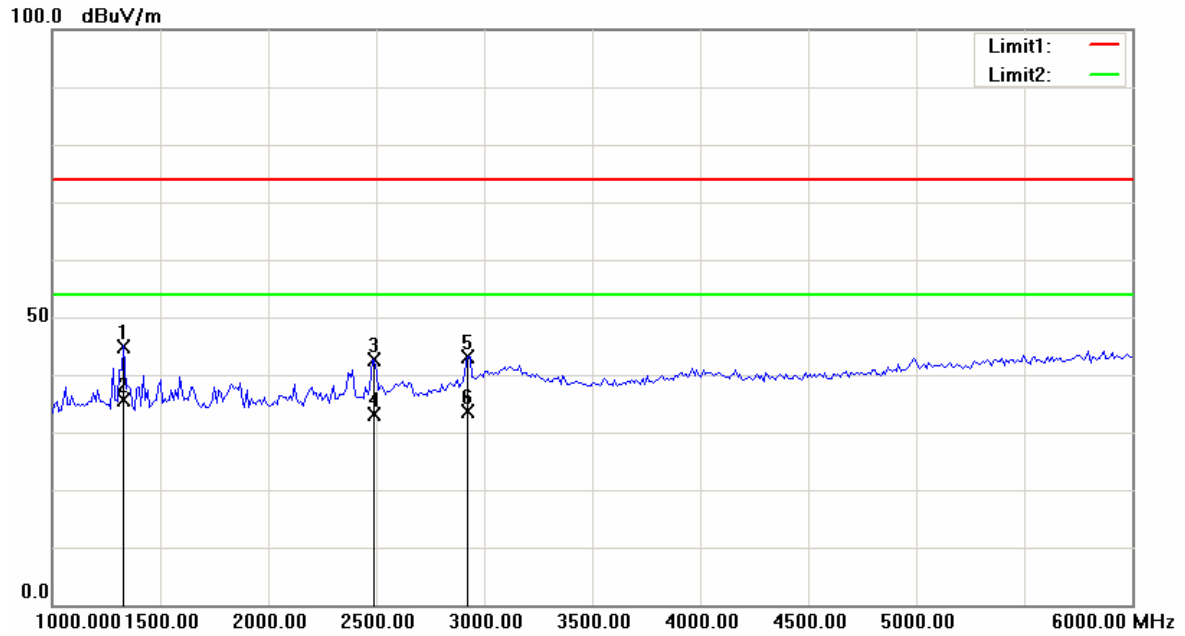
**Vertical:**



Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave )	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1330.661	45.95	peak	-1.04	44.91	74.00	29.09
1330.661	36.56	AVG	-1.04	35.52	54.00	18.48
1410.822	46.43	peak	-0.65	45.78	74.00	28.22
1410.822	36.89	AVG	-0.65	36.24	54.00	17.76
3955.912	39.14	peak	7.75	46.89	74.00	27.11
3955.912	29.67	AVG	7.75	37.42	54.00	16.58

Test mode: Charging

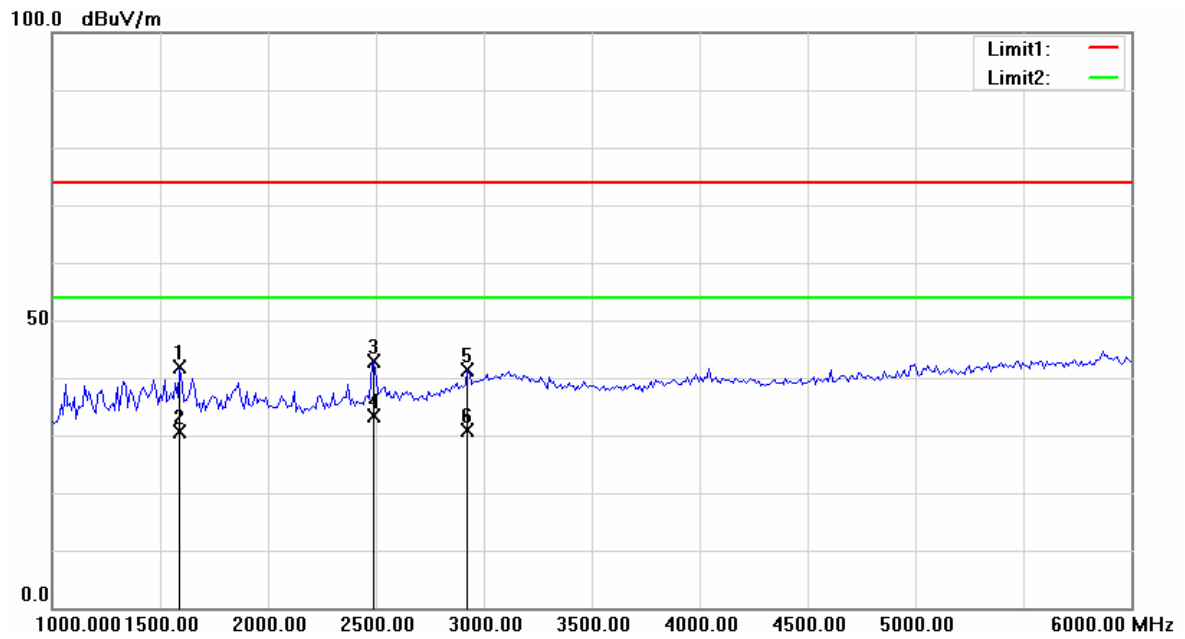
**Horizontal:**



Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave )	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1330.661	46.04	peak	-1.04	45.00	74.00	29.00
1330.661	36.66	AVG	-1.04	35.62	54.00	18.38
2492.986	39.59	peak	3.15	42.74	74.00	31.26
2492.986	30.06	AVG	3.15	33.21	54.00	20.79
2923.848	36.81	peak	6.26	43.07	74.00	30.93
2923.848	27.48	AVG	6.26	33.74	54.00	20.26



**Vertical:**



Frequency (MHz)	Receiver Reading (dBuV/m)	Detector (PK/QP/Ave )	Correction Factor (dB)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1591.182	41.85	peak	0.10	41.95	74.00	32.05
1591.182	30.53	AVG	0.10	30.63	54.00	23.37
2492.986	39.66	peak	3.15	42.81	74.00	31.19
2492.986	30.26	AVG	3.15	33.41	54.00	20.59
2923.848	35.01	peak	6.26	41.27	74.00	32.73
2923.848	24.60	AVG	6.26	30.86	54.00	23.14

## DECLARATION LETTER

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### DECLARATION OF SIMILARITY

2013-09-24

Dear Sir or Madam:

We, Binatone Electronics International Ltd., hereby declare that our product: GSM phone, models: The Brick and The Brick Power. Please see the difference between the models as below. Compared with The Brick Power, the model: The Brick has better electromagnetic compatibility performance.

A description of the differences between the tested model and those that are declared similar areas follows:

Models: The Brick hasn't the USB connector or power bank related components on PCBA.

The Brick Power has the USB connector and power bank related components on PCBA.

Please contact me should there be need for any additional clarification or information.

Best Regards,

Signature:

A handwritten signature in black ink, followed by a circular seal. The seal contains the text "BINATONE ELECTRONICS INTERNATIONAL LTD." around the perimeter and Chinese characters in the center.

Patrick Cheung, Senior Product Manager

\*\*\*\*\* END OF REPORT \*\*\*\*\*