

FCC PART 15B

TEST REPORT

For

**SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.**

NO.1 Shuoying Rd., Hebei Industry Area, Dalang, Longhua Town, Baoan, Shenzhen, China.

**FCC ID: XJN-PX7052**

<b>Report Type:</b> Original Report	<b>Product Type:</b> Mobile Internet Devices
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<b>Report Number:</b>	R2DG131219001-00A
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## GENERAL INFORMATION

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

The *SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.*'s product, model number: *PX7052* (FCC ID: *XJN-PX7052*) (the "EUT") in this report was a *Mobile Internet Devices*, which was measured approximately: 19 cm (L) x 11.5 cm (W) x 1.0 cm (H), rated input voltage: DC 3.7 V from lithium battery or DC 5V from adapter.

Adapter information: FLYPOWER  
Model: PS14K0502000U5  
Input: AC 100-240V, 50/60Hz, 0.35A  
Output: DC 5.0V, 2000mA

*\* All measurement and test data in this report was gathered from production sample serial number: 131219001 (Assigned by BACL.Dongguan). The EUT was received on 2013-12-20*

### Objective

This report is prepared on behalf of *SHUOYING INDUSTRIAL (SHENZHEN) CO., 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 DTS submissions with FCC ID: *XJN-PX7052* for Wifi.

### Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, 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: HDMI Output

### EUT Exercise Software

No software was used.

### Support Equipment List and Details

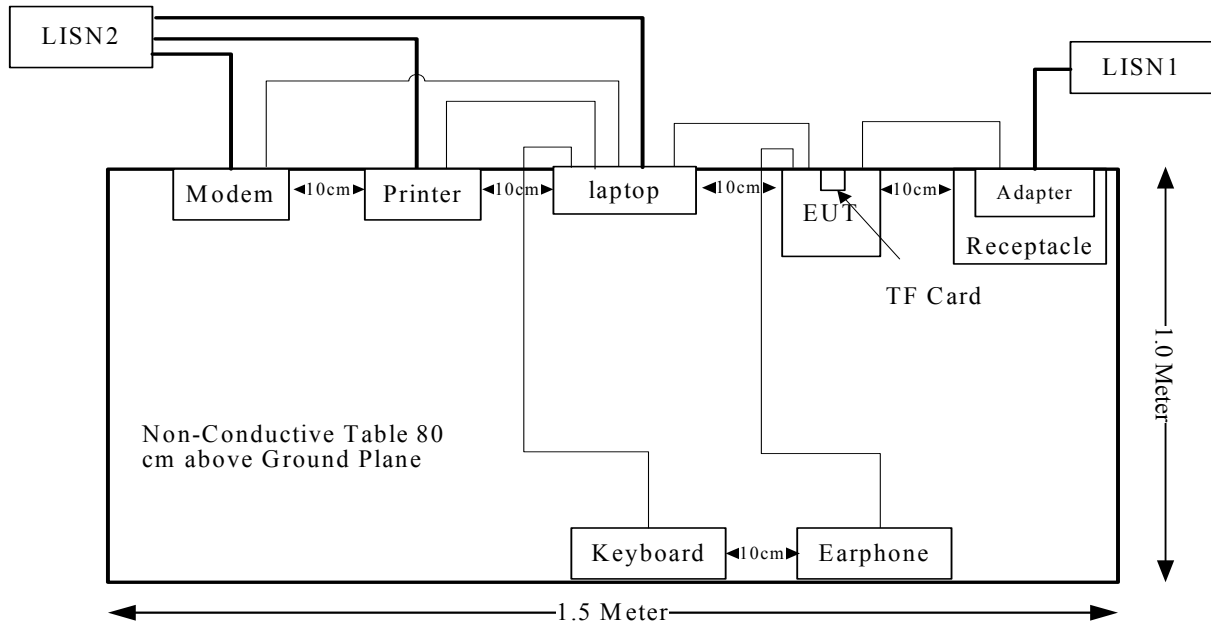
Manufacturer	Description	Model	Serial Number
HP	Printer	C3941A	JPTVOB2337
SAST	Modem	AEM-2100	0293
DELL	Keyboard	L100	CNORH656658907BL05DC
DELL	Laptop	PP11L	N/A
SAMSUNG	Monitor	S22C330H	ZXDCHTHD10149K
N/A	TF Card	N/A	N/A
SAMSUNG	Earphone	N/A	N/A

### External I/O Cable

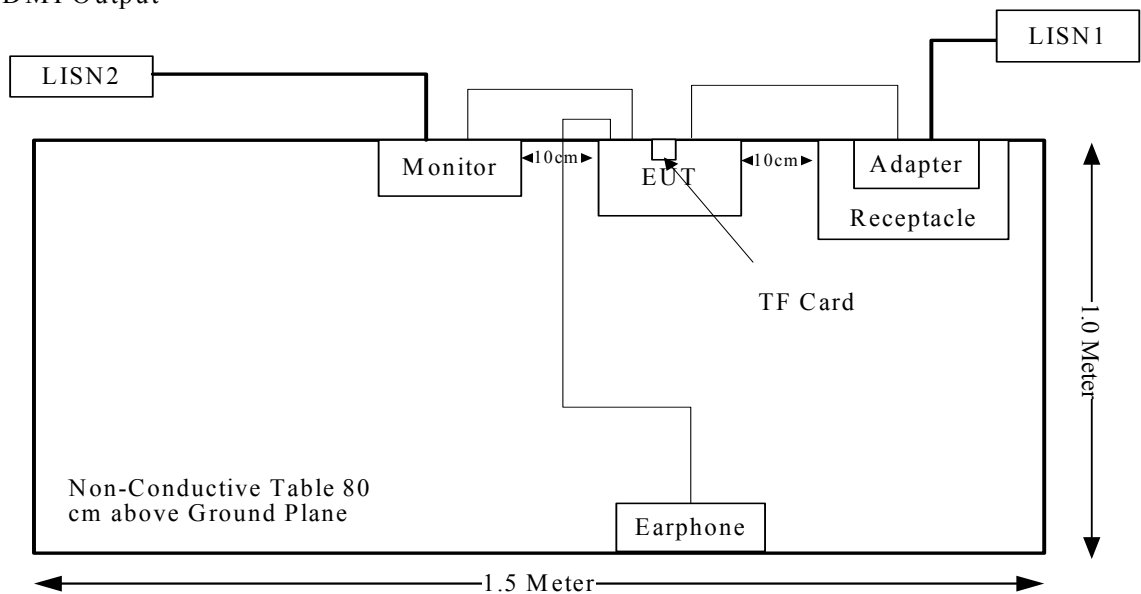
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Printer Cable	Yes	No	1.2	Parallel Port of Laptop	Printer
Serial Cable	Yes	No	1.2	Serial Port of Laptop	Modem
Keyboard Cable	Yes	Yes	1.5	Keyboard Port of Laptop	Keyboard
USB Cable	Yes	Yes	0.6	USB Port of Laptop	EUT
DC Cable	Yes	No	1.5	Adapter	EUT
HDMI Cable	Yes	No	0.5	HDMI Port of Monitor	EUT
Earphone Cable	No	No	1.2	EUT	Earphone

## Block Diagram of Test Setup

USB Downloading:



HDMI Output



**SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Results
§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  $U_{cisp}$  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  $U_{cisp}$  of Table 1, then:

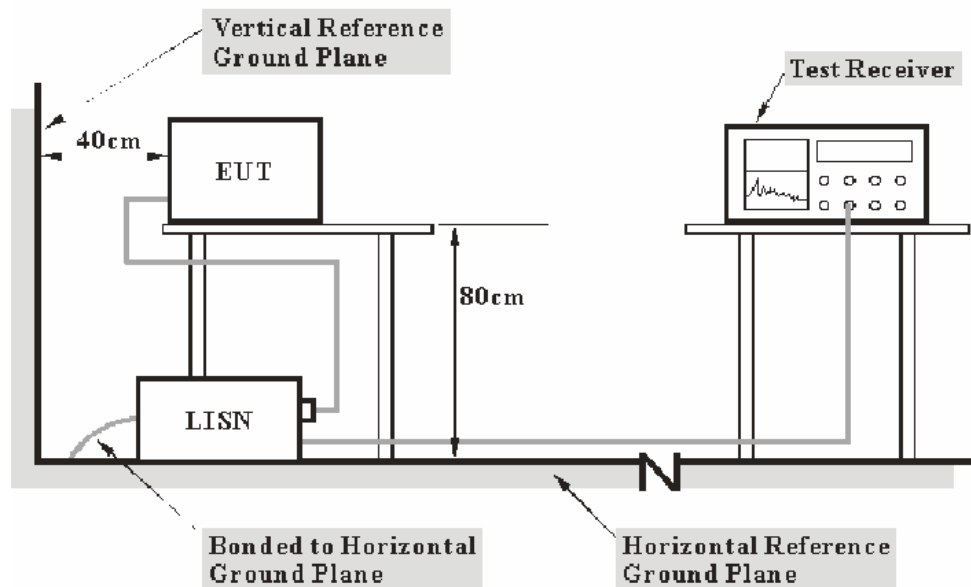
- compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} - U_{cisp})$ , exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by  $(U_{lab} - U_{cisp})$ , exceeds the disturbance limit.

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  $U_{cisp}$

Measurement	$U_{cisp}$
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 spacing between the peripherals was 10 cm.

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	2013-11-20	2014-11-19
R&S	Two-line V-network	ENV216	3560.6550.12	2013-2-18	2014-2-17
R&S	L.I.S.N	ESH3-Z5	100113	N/A	N/A
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:

**7.10 dB at 0.320 MHz** in the **Line** conducted mode of USB Downloading mode.

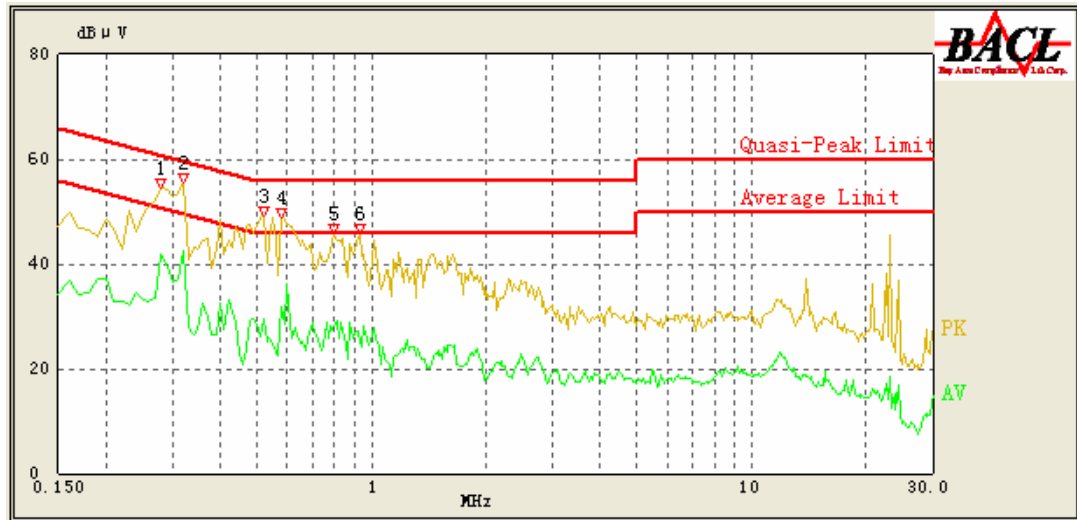
**Test Data****Environmental Conditions**

<b>Temperature:</b>	19.2°C
<b>Relative Humidity:</b>	39 %
<b>ATM Pressure:</b>	101.8 kPa

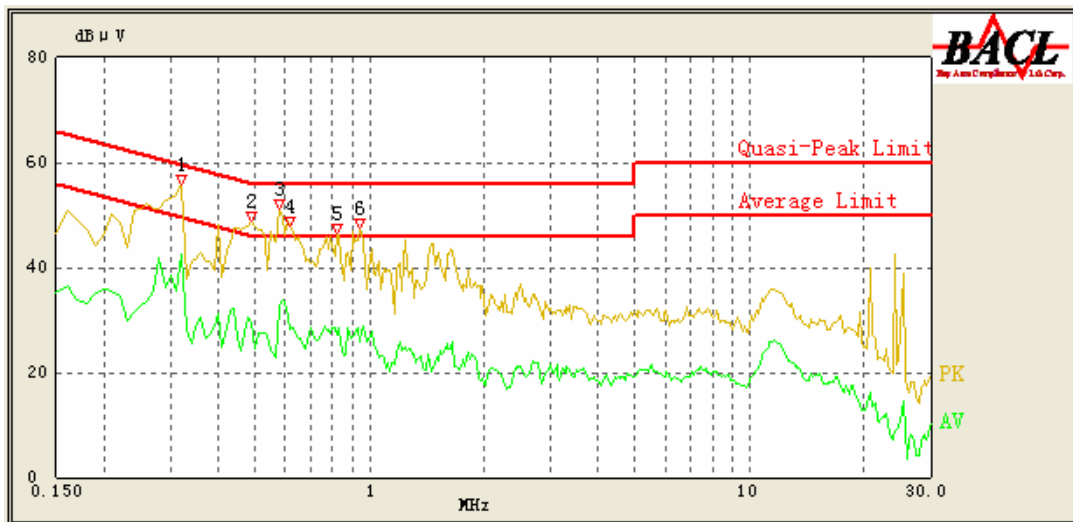
*The testing was performed by Leon Chen on 2014-01-23.*

Test mode: USB Downloading

120 V, 60 Hz, Line:



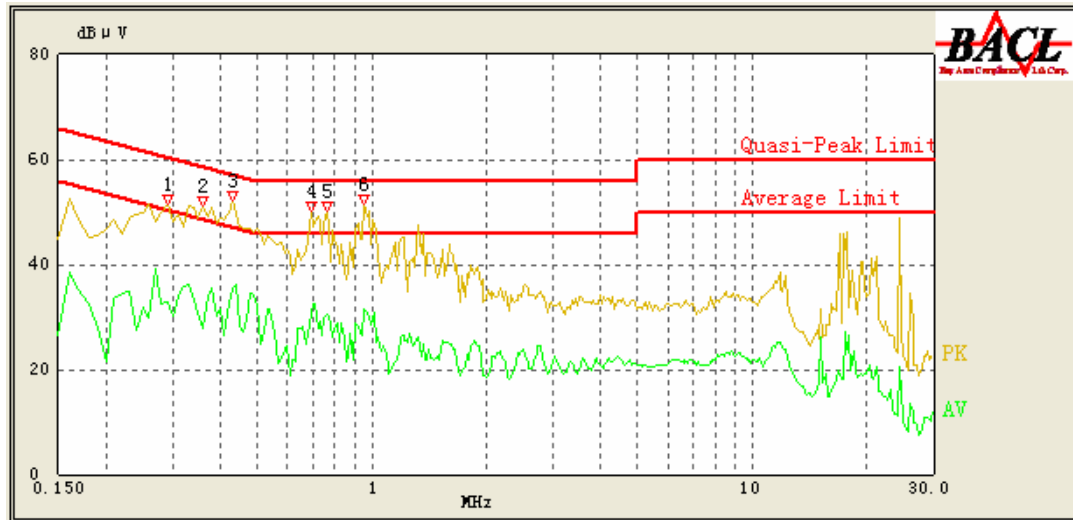
Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.280	49.37	0.15	60.82	11.45	QP
0.280	41.72	0.15	50.82	9.10	AV
0.320	51.69	0.15	59.71	8.02	QP
0.320	42.61	0.15	49.71	7.10	AV
0.520	41.35	0.20	56.00	14.65	QP
0.520	29.45	0.20	46.00	16.55	AV
0.580	47.55	0.18	56.00	8.45	QP
0.580	31.73	0.18	46.00	14.27	AV
0.800	38.55	0.15	56.00	17.45	QP
0.800	28.21	0.15	46.00	17.79	AV
0.930	38.60	0.19	56.00	17.40	QP
0.930	25.05	0.19	46.00	20.95	AV

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

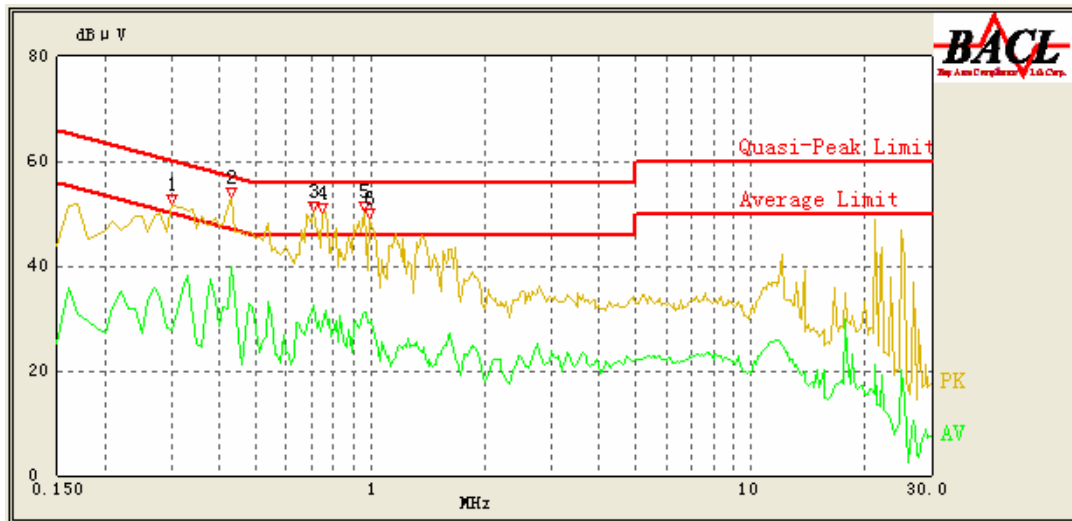
Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.320	52.05	0.31	59.71	7.66	QP
0.320	42.43	0.31	49.71	7.28	AV
0.490	41.32	0.29	56.17	14.85	QP
0.490	29.37	0.29	46.17	16.80	AV
0.580	46.17	0.31	56.00	9.83	QP
0.580	32.62	0.31	46.00	13.38	AV
0.620	44.38	0.31	56.00	11.62	QP
0.620	28.32	0.31	46.00	17.68	AV
0.820	38.36	0.33	56.00	17.64	QP
0.820	27.26	0.33	46.00	18.74	AV
0.940	38.99	0.32	56.00	17.01	QP
0.940	25.80	0.32	46.00	20.20	AV

Test mode: HDMI Output

120 V, 60 Hz, Line:



Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.290	44.87	0.15	60.52	15.65	QP
0.290	32.68	0.15	50.52	17.84	AV
0.360	44.26	0.16	58.73	14.47	QP
0.360	27.94	0.16	48.73	20.79	AV
0.430	47.48	0.17	57.25	9.77	QP
0.430	35.54	0.17	47.25	11.71	AV
0.690	44.71	0.18	56.00	11.29	QP
0.690	30.44	0.18	46.00	15.56	AV
0.760	44.29	0.16	56.00	11.71	QP
0.760	30.56	0.16	46.00	15.44	AV
0.950	44.35	0.19	56.00	11.65	QP
0.950	31.36	0.19	46.00	14.64	AV

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

Frequency (MHz)	Cord. Reading (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/AV/QP)
0.300	43.95	0.15	60.24	16.29	QP
0.300	27.76	0.15	50.24	22.48	AV
0.430	47.58	0.17	57.25	9.67	QP
0.430	39.74	0.17	47.25	7.51	AV
0.710	45.06	0.18	56.00	10.94	QP
0.710	32.60	0.18	46.00	13.40	AV
0.750	44.64	0.17	56.00	11.36	QP
0.750	28.93	0.17	46.00	17.07	AV
0.960	44.03	0.20	56.00	11.97	QP
0.970	31.04	0.20	46.00	14.96	AV
0.990	43.72	0.20	56.00	12.28	QP
0.990	29.04	0.20	46.00	16.96	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  $U_{cisp}$  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  $U_{cisp}$  of Table 1, then:

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

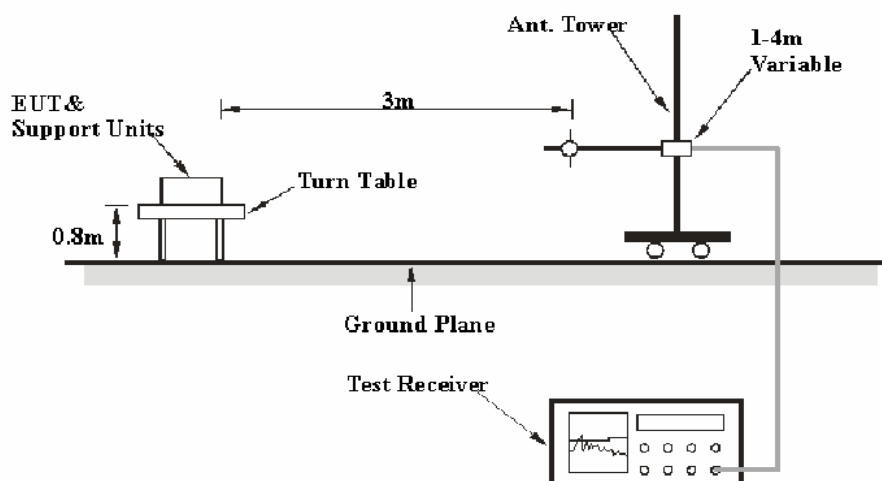
6G~18GHz: 5.23 dB

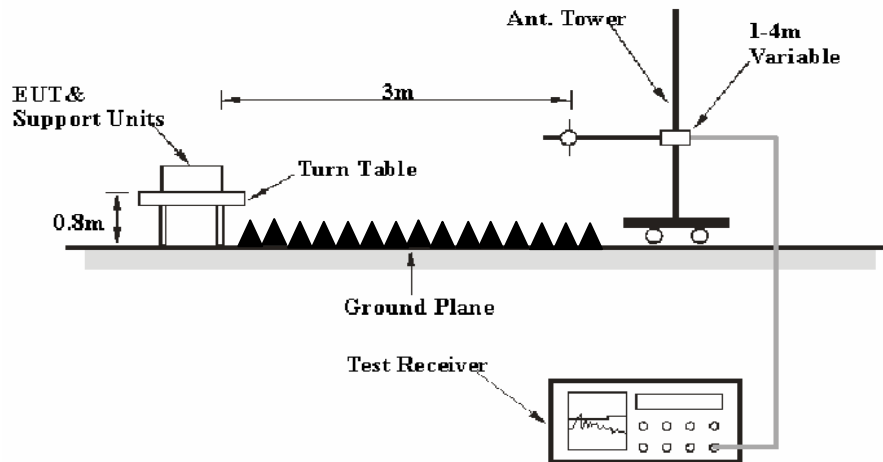
Table 2 – Values of  $U_{cisp}$

Measurement	$U_{cisp}$
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 spacing between the peripherals was 10 cm.

The adapter was 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	AMPLIFIER	8447E	2434A02181	N/A	N/A
R&S	Spectrum analyzer	FSEM	DE31388	2013-5-7	2014-5-6
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:

**2.60 dB at 940.8300 MHz in the Horizontal polarization of HDMI Output mode**

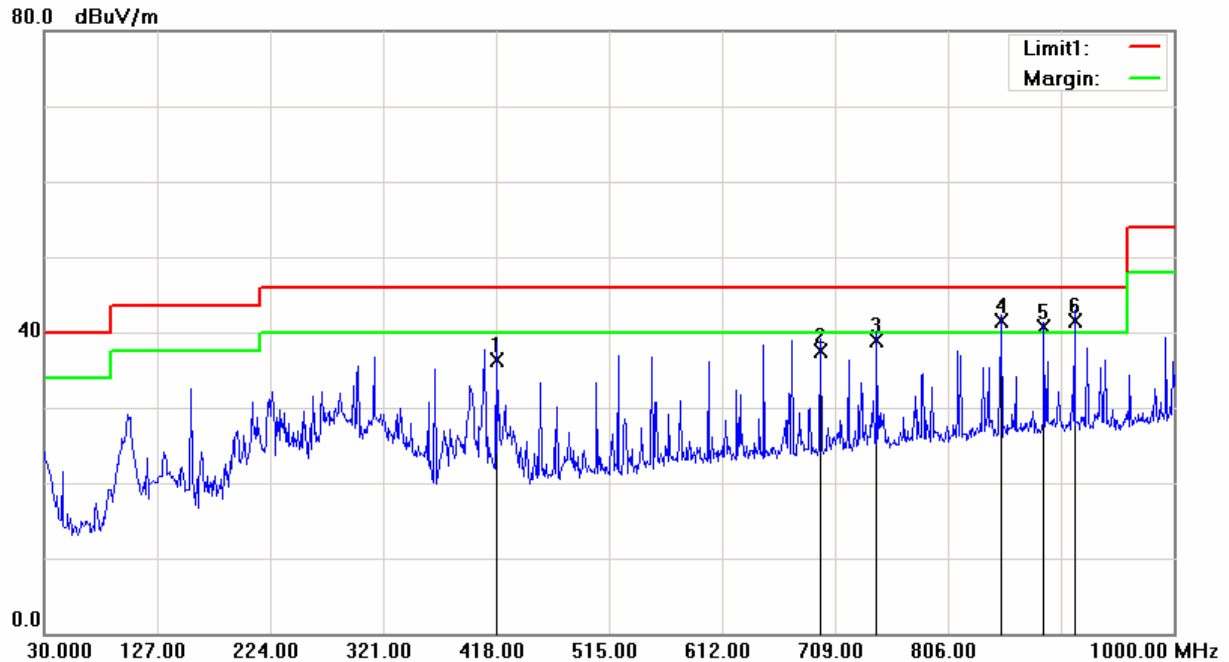
## Test Data

### Environmental Conditions

<b>Temperature:</b>	17.8 °C
<b>Relative Humidity:</b>	50 %
<b>ATM Pressure:</b>	101.7 kPa

*The testing was performed by Leon Chen on 2014-01-23.*



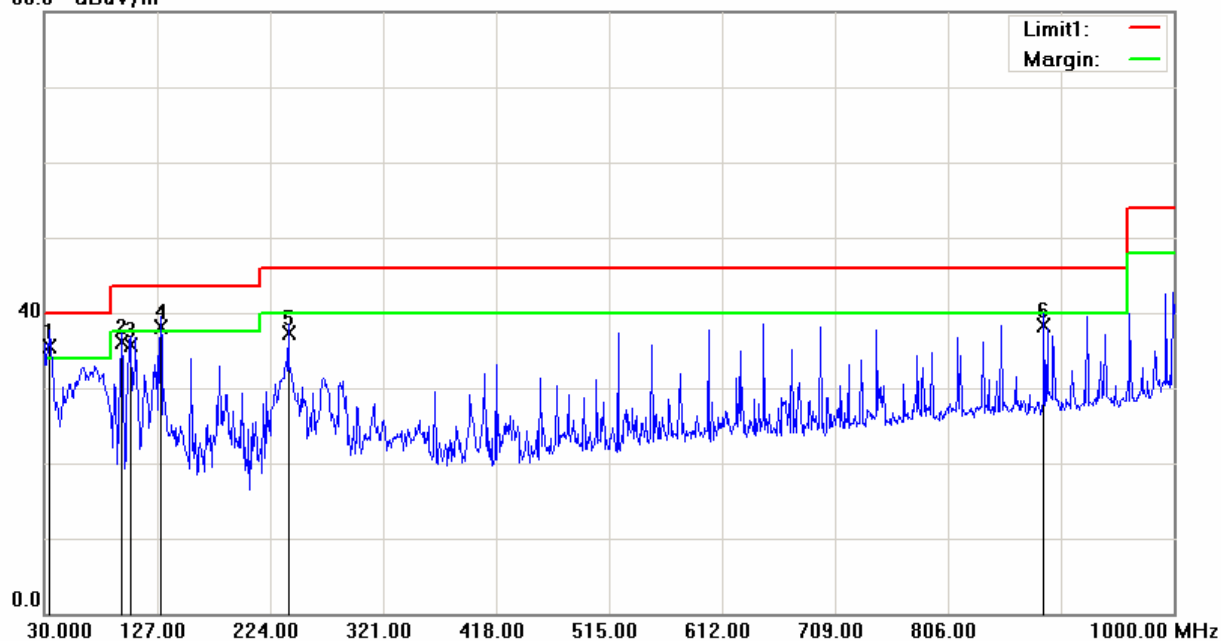
**1) Below 1G:***Test mode: USB Downloading***Horizontal:**

Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
418.0000	39.18	QP	-2.88	36.30	46.00	9.70
696.3900	36.51	QP	1.09	37.60	46.00	8.40
744.8900	36.78	QP	2.12	38.90	46.00	7.10
851.5900	38.44	QP	3.16	41.60	46.00	4.40*
888.4500	37.02	QP	3.68	40.70	46.00	5.30*
914.6400	37.26	QP	4.24	41.50	46.00	4.50*

*\*Within measurement uncertainty!*

**Vertical:**

80.0 dBuV/m



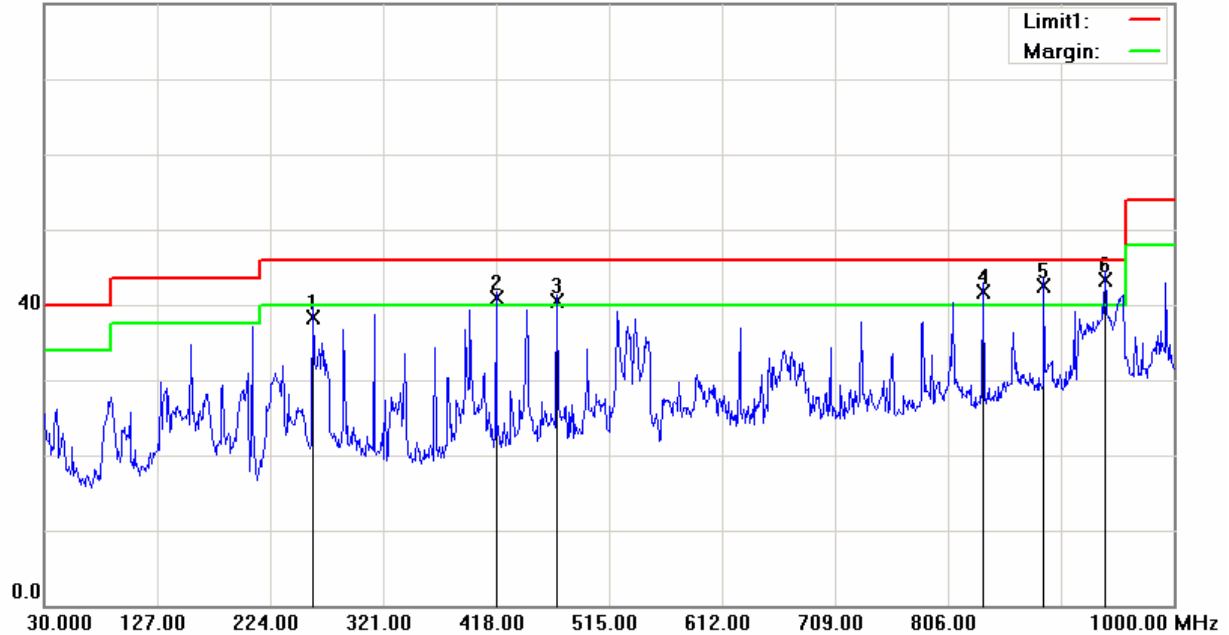
Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
34.8500	37.69	QP	-2.19	35.50	40.00	4.50*
96.9300	46.84	QP	-10.64	36.20	43.50	7.30
103.7200	44.32	QP	-8.62	35.70	43.50	7.80
129.9100	43.98	QP	-5.88	38.10	43.50	5.40
239.5200	44.94	QP	-7.64	37.30	46.00	8.70
888.0300	34.74	QP	3.66	38.40	46.00	7.60

\*Within measurement uncertainty!

Test mode: HDMI Output

**Horizontal:**

80.0 dBuV/m

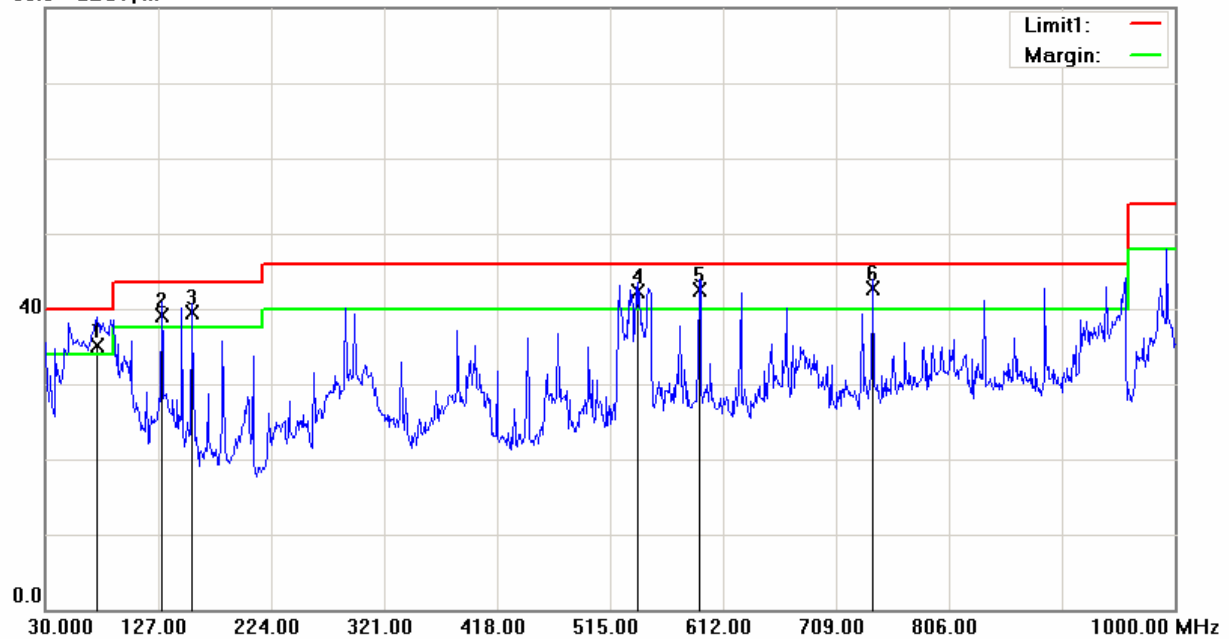


Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
260.8600	45.08	QP	-6.78	38.30	46.00	7.70
418.0000	43.78	QP	-2.88	40.90	46.00	5.10*
470.3800	42.18	QP	-1.68	40.50	46.00	5.50*
836.0700	38.36	QP	3.34	41.70	46.00	4.30*
888.4500	38.92	QP	3.68	42.60	46.00	3.40*
940.8300	38.65	QP	4.75	43.40	46.00	2.60*

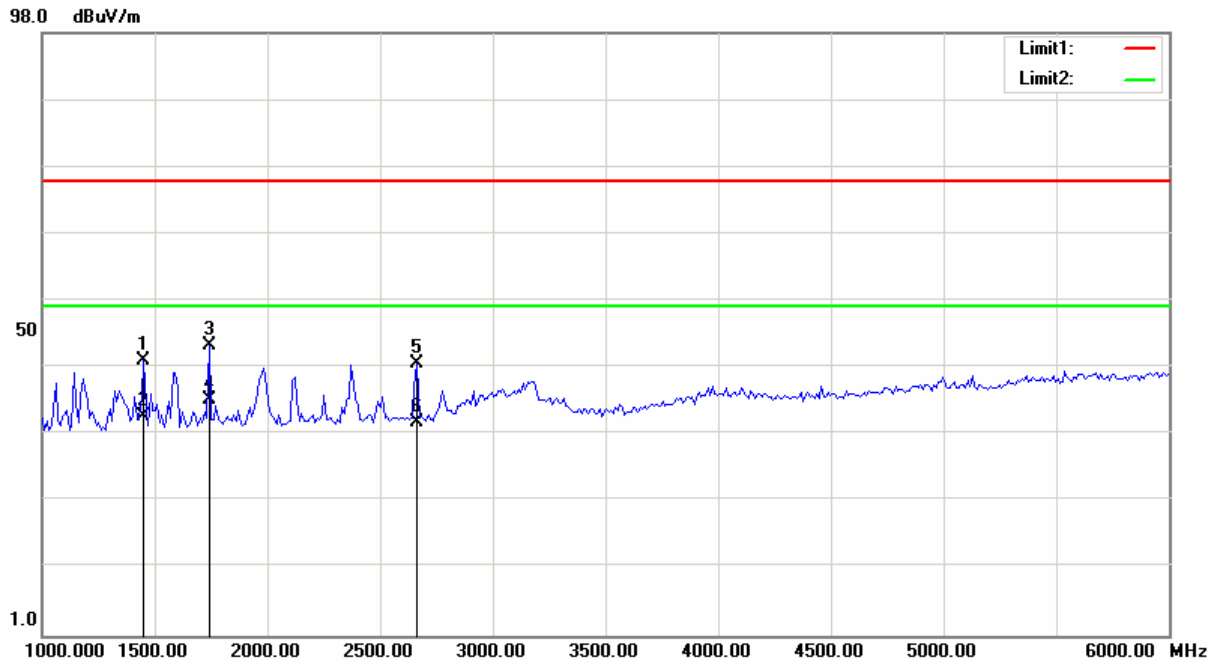
\*Within measurement uncertainty!

**Vertical:**

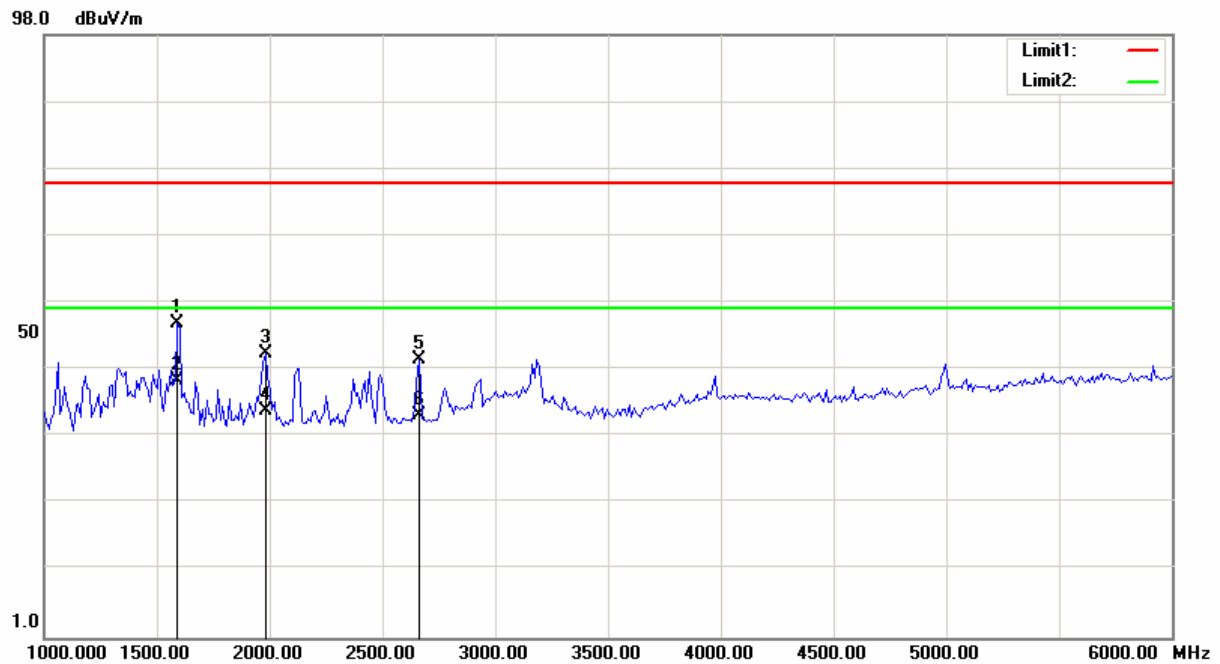
80.0 dBuV/m



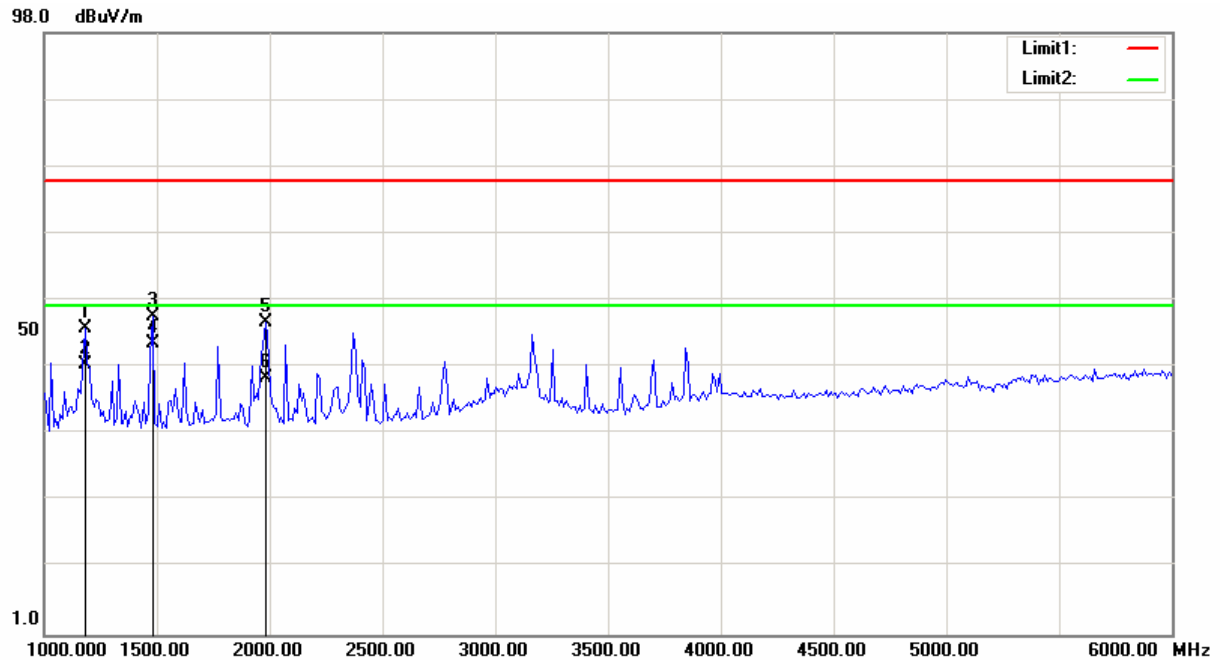
Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
74.6200	47.11	QP	-11.91	35.20	40.00	4.80*
129.9100	45.08	QP	-5.88	39.20	43.50	4.30*
156.1000	46.84	QP	-7.34	39.50	43.50	4.00*
538.2800	43.33	QP	-1.03	42.30	46.00	3.70*
591.6300	42.75	QP	-0.15	42.60	46.00	3.40*
741.0100	40.68	QP	2.02	42.70	46.00	3.30*

**2) Above 1G:***Test mode: USB Downloading***Horizontal:**

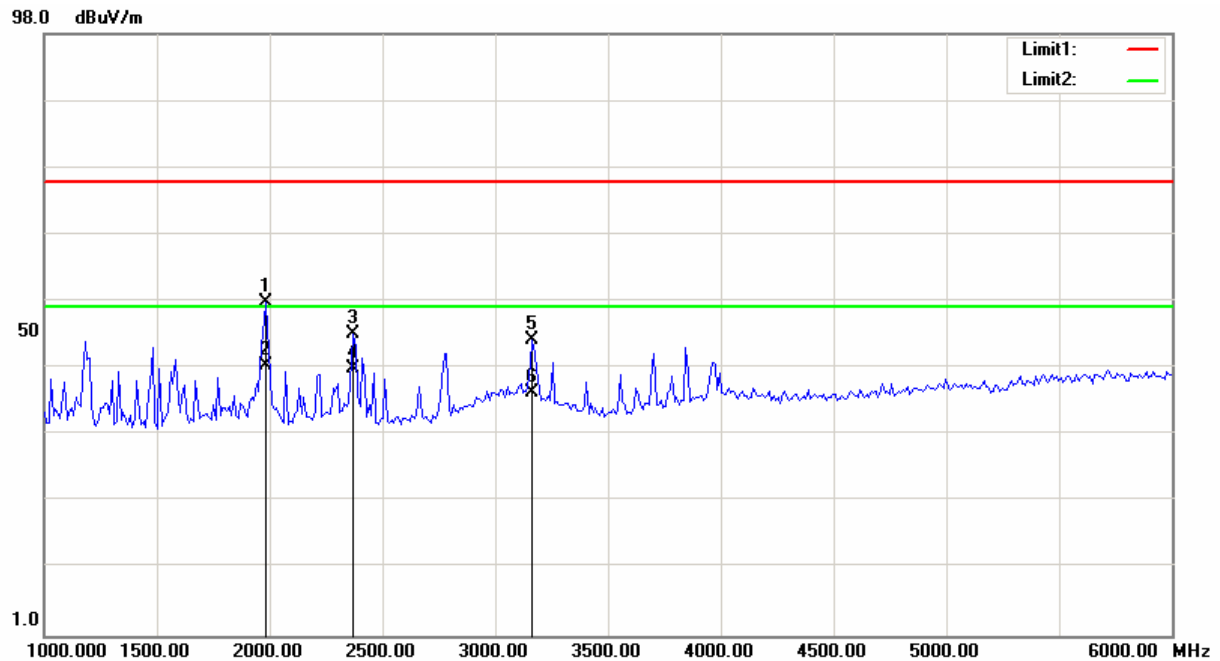
Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1450.902	45.79	peak	-0.45	45.34	74.00	28.66
1450.902	36.74	AVG	-0.45	36.29	54.00	17.71
1741.483	47.04	peak	0.74	47.78	74.00	26.22
1741.483	38.11	AVG	0.74	38.85	54.00	15.15
2663.327	41.01	peak	3.77	44.78	74.00	29.22
2663.327	31.60	AVG	3.77	35.37	54.00	18.63

**Vertical:**

Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1591.182	51.41	peak	0.10	51.51	74.00	22.49
1591.182	42.26	AVG	0.10	42.36	54.00	11.64
1981.964	45.36	peak	1.25	46.61	74.00	27.39
1981.964	36.34	AVG	1.25	37.59	54.00	16.41
2663.327	42.01	peak	3.77	45.78	74.00	28.22
2663.327	33.11	AVG	3.77	36.88	54.00	17.12

*Test mode: HDMI Output***Horizontal:**

Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1180.361	52.06	peak	-1.70	50.36	74.00	23.64
1180.361	46.26	AVG	-1.70	44.56	54.00	9.44
1480.962	52.71	peak	-0.41	52.30	74.00	21.70
1480.962	48.39	AVG	-0.41	47.98	54.00	6.02
1981.964	50.03	peak	1.25	51.28	74.00	22.72
1981.964	41.11	AVG	1.25	42.36	54.00	11.64

**Vertical:**

Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1981.964	53.40	peak	1.25	54.65	74.00	19.35
1981.964	43.38	AVG	1.25	44.63	54.00	9.37
2372.745	46.97	peak	2.76	49.73	74.00	24.27
2372.745	41.40	AVG	2.76	44.16	54.00	9.84
3164.329	41.03	peak	7.60	48.63	74.00	25.37
3164.329	32.61	AVG	7.60	40.21	54.00	13.79

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