



MEASUREMENT REPORT

FCC PART 15B

FCC ID: 2AA5TW7T

APPLICANT: Dongguan Winn Technology Co., Ltd

Application Type: Certification

Product: Tablet PC

Model No.: Winnpad 7 Tablet

FCC Classification: FCC Class B Digital Device (JBP)

FCC Rule Part(s): FCC Part 15 Subpart B

Test Procedure(s): ANSI C63.4: 2009

Test Date: July 03 ~ 08, 2014

Reviewed By : Robin Wu
(Robin Wu)

Approved By : Marlin Chen
(Marlin Chen)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2009. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date
1407RSU00403	Rev. 01	Initial report	07-08-2014

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§2.1033 General Information

Applicant:	Dongguan Winn Technology Co., Ltd
Applicant Address:	xianghe Rd, xinmin Area, chang'an, dongguan
Manufacturer:	Dongguan Winn Technology Co., Ltd
Manufacturer Address:	xianghe Rd, xinmin Area, chang'an, dongguan
Test Site:	MRT Technology (Suzhou) Co., Ltd
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
MRT FCC Registration No.:	809388
Model No.:	Winnpad 7 Tablet
FCC ID:	2AA5TW7T
Test Device Serial No.:	N/A ☐ Production ☒ Pre-Production ☐ Engineering
FCC Classification:	FCC Class B Digital Device (JBP)
Date(s) of Test:	July 03 ~ July 08, 2014
Test Report S/N:	1407RSU00403

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.
- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (11384A-1).
- MRT facility is an IC registered (11384A-1) test laboratory with the site description on file at Industry Canada.



1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	Tablet PC
Model No.	Winnpad 7 Tablet
Wi-Fi	
Frequency Range	802.11b/g/n-HT20: 2412 ~ 2462 MHz 802.11n-HT40: 2422 ~ 2452 MHz
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 150 Mbps
Antenna Type	Internal
Antenna Gain	2.0dBi

2.2. Device Capabilities

This device contains the following capabilities:

802.11b/g/n WLAN (DTS)

The **Tablet PC FCC ID: 2AA5TW7T** was tested per the guidance FCC Part 15 Subpart B: 2014 and ANSI C63.4: 2009 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

The diagram illustrates a system architecture. A large rectangular container is shown. Inside this container, there are three smaller rectangular boxes. The box labeled 'A' is positioned at the top center. Below it, there are two boxes: 'EUT' on the left and 'Adapter' on the right. The 'EUT' box is larger than the 'Adapter' box. The 'Adapter' box is positioned to the right of the 'EUT' box. The entire diagram is enclosed in a thick black border.

The diagram shows a rectangular building layout. At the top, there are two rooms labeled '2' on the left and '1' on the right. Between them is a central area labeled 'EUT'. A horizontal line labeled 'A' connects the top of room '1' and room '2'. A vertical line labeled 'B' connects the top of room '1' to the top of room '2'. Below room '1' is a room labeled '3', and below room '2' is a room labeled '4'. A vertical line labeled 'C' connects the bottom of room '1' to room '3'. A vertical line labeled 'D' connects the bottom of room '2' to room '4'.

Signal Cable Type		Signal cable Description		
A	USB Cable	Shielding, 0.6m		
B	VGA Cable	Shielding, 1.5m		
C	USB Cable	Shielding, 1.8m		
D	USB Cable	Shielding, 1.8m		
Product		Manufacturer	Model No.	Power Cord
1	Notebook	Lenovo	E430C	Non-Shielded, 1.8m
2	LCD Monitor	DELL	IN1930C	Non-Shielded, 1.8m
3	USB Mouse	DELL	MS111-7	N/A
4	USB Keyboard	DELL	KB212-B	N/A

2.4. Test Software

Not applicable.

2.5. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.6. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(a)(5).

Please see attachment for FCC ID label and label location.

3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2009) was used in the measurement of the **Tablet PC FCC ID: 2AA5TW7T**.

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50 Ω /50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2009 at Clause 4.3.

Line conducted emissions test results are shown in Section 6.2.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beamwidth of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. TEST EQUIPMENT CALIBRATION DATA

Conducted Emissions

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	101209	1 year	2014/11/08
Two-Line V-Network	R&S	ENV216	101683	1 year	2014/11/08
Two-Line V-Network	R&S	ENV216	101684	1 year	2014/11/08
Temperature/ Meter Humidity	Anymetre	TH101B	SR2-01	1 year	2014/11/15

Radiated Emission

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9010A	MY5144016A	1 year	2015/01/04
Preamplifier	MRT	AP01G18	1310002	1 year	2014/10/07
TRILOG Antenna	Schwarzbeck	VULB9162	9162-047	1 year	2014/11/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1167	1 year	2014/11/24
Temperature/Humidity Meter	Anymetre	TH101B	AC1-01	1 year	2014/11/15

5. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Conducted Emissions Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 150kHz~30MHz: $\pm 3.46\text{dB}$
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 30MHz ~ 1GHz: $\pm 4.18\text{dB}$ 1GHz ~ 18GHz: $\pm 4.76\text{dB}$

6. TEST RESULT

6.1. Summary

Company Name: Dongguan Winn Technology Co., Ltd
FCC ID: 2AA5TW7T
FCC Classification: FCC Class B Digital Device (JBP)
Test Mode: Charging and Camera On;
USB Copy with Notebook

Normative References	Test Description	Test Result
FCC Part 15 Subpart B: 2014 ANSI C63.4: 2009	Conducted Emission	Pass
FCC Part 15 Subpart B: 2014 ANSI C63.4: 2009	Radiated Emission	Pass

6.2. Conducted Emission Measurement

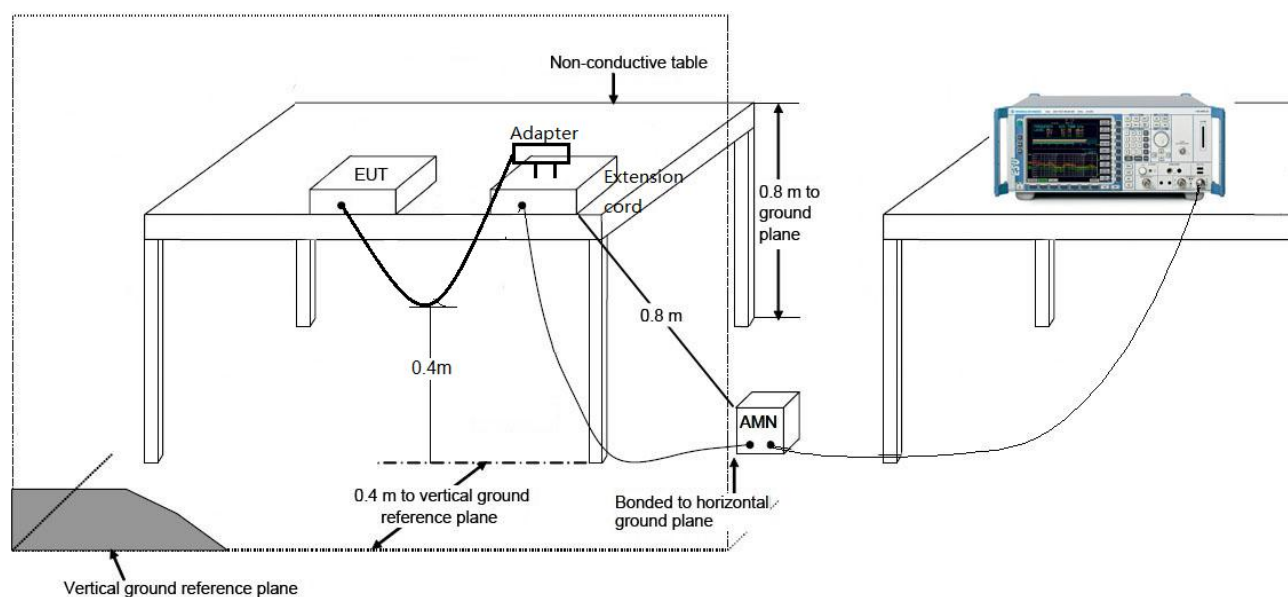
6.2.1. Test Limit

FCC Part 15.107 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

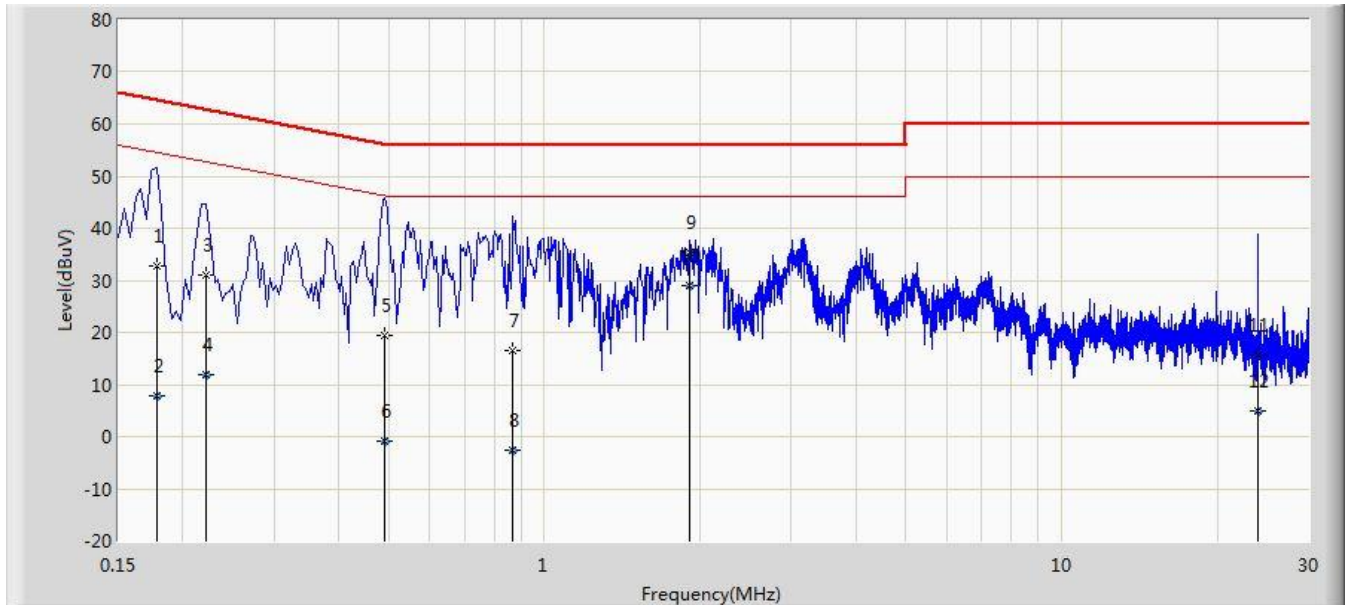
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.2.2. Test Setup



6.2.3. Test Result of Conducted Emissions

Tested By	Roy Cheng	Test Data	2014/07/08 - 15:29
Site	SR2	Power	AC 120V/60Hz
Limit	FCC_Part15.107_CE_Class B	Polarity	Line
AMN	LISN_101683-FILTER ON	Test Mode	Charging & Camera On

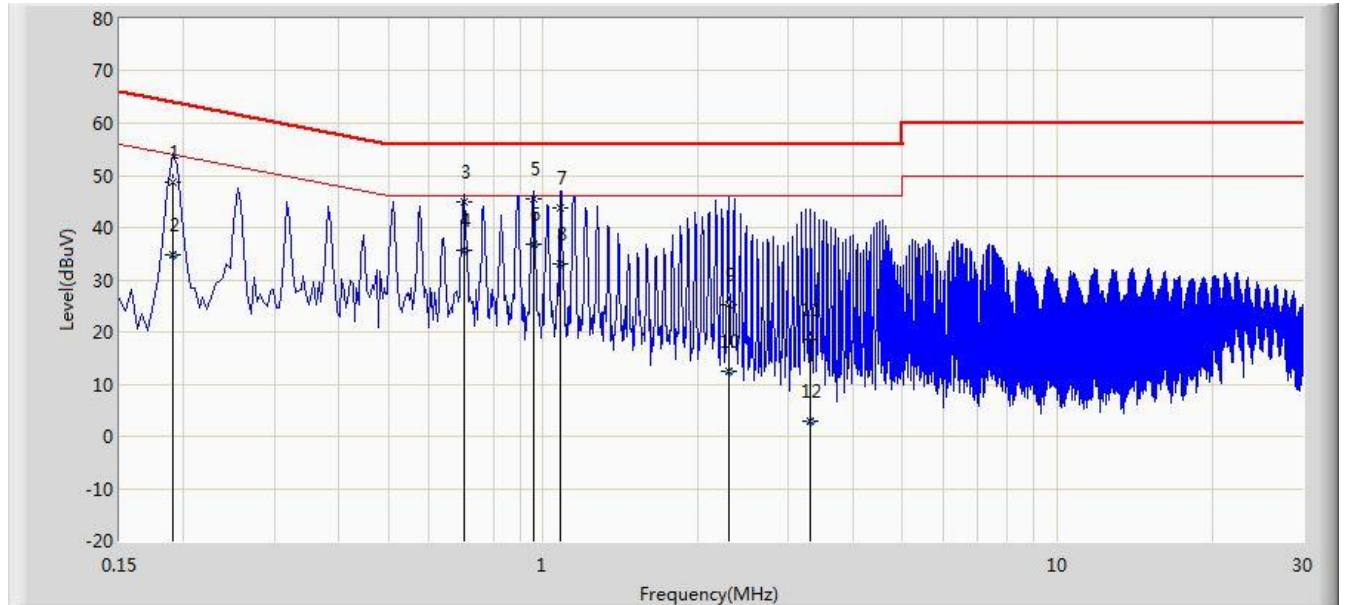


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.178	32.873	22.815	-31.705	64.578	10.058	QP
2			0.178	7.750	-2.308	-46.828	54.578	10.058	AV
3		*	0.222	30.898	20.957	-31.846	62.744	9.941	QP
4			0.222	11.765	1.824	-40.979	52.744	9.941	AV
5			0.490	19.431	9.273	-36.737	56.168	10.158	QP
6			0.490	-0.810	-10.968	-46.978	46.168	10.158	AV
7			0.870	16.489	6.513	-39.511	56.000	9.976	QP
8			0.870	-2.553	-12.529	-48.553	46.000	9.976	AV
9			1.906	35.431	25.557	-20.569	56.000	9.875	QP
10			1.906	29.023	19.148	-16.977	46.000	9.875	AV
11			23.998	15.602	5.408	-44.398	60.000	10.194	QP
12			23.998	4.870	-5.324	-45.130	50.000	10.194	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Tested By	Roy Cheng	Test Data	2014/07/08 - 15:29
Site	SR2	Power	AC 120V/60Hz
Limit	FCC_Part15.107_CE_Class B	Polarity	Neutral
AMN	LISN_101683-FILTER ON	Test Mode	Charging & Camera On

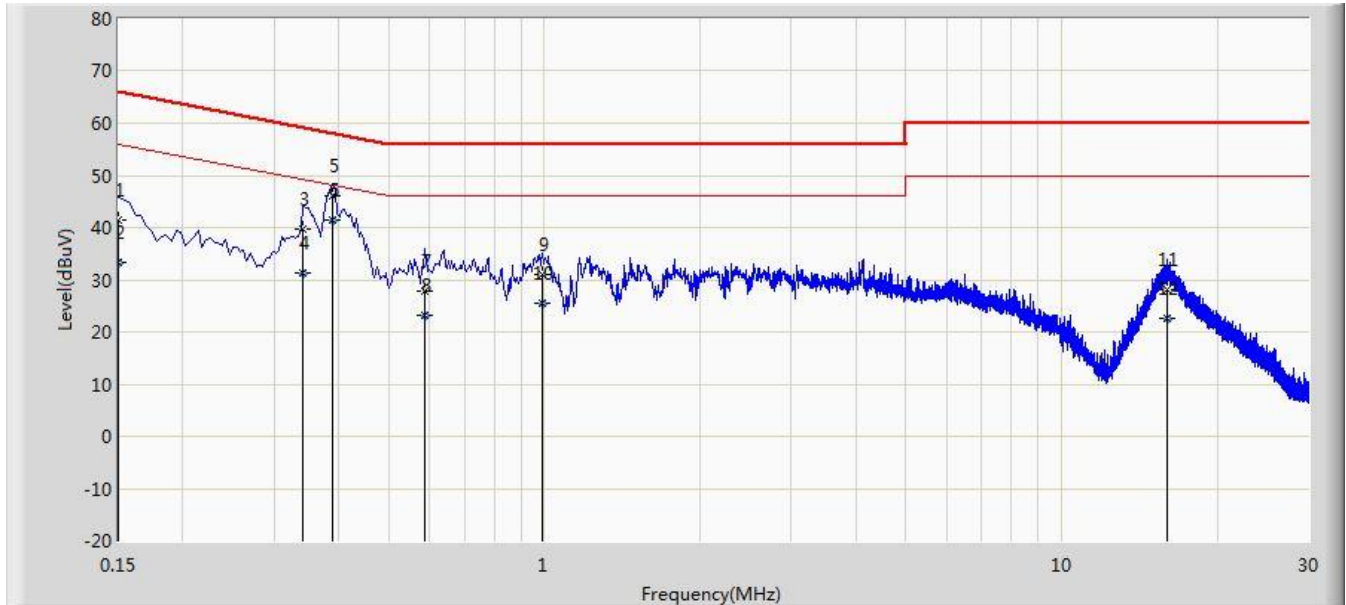


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.190	48.575	38.547	-15.462	64.037	10.028	QP
2			0.190	34.844	24.816	-19.192	54.037	10.028	AV
3		*	0.702	44.833	34.759	-11.167	56.000	10.074	QP
4			0.702	35.690	25.617	-10.310	46.000	10.074	AV
5			0.958	45.483	35.551	-10.517	56.000	9.932	QP
6			0.958	36.864	26.933	-9.136	46.000	9.932	AV
7			1.082	43.797	33.891	-12.203	56.000	9.906	QP
8			1.082	33.090	23.185	-12.910	46.000	9.906	AV
9			2.290	25.294	15.428	-30.706	56.000	9.866	QP
10			2.290	12.472	2.606	-33.528	46.000	9.866	AV
11			3.310	18.599	8.700	-37.401	56.000	9.899	QP
12			3.310	2.892	-7.007	-43.108	46.000	9.899	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Tested By	Roy Cheng	Test Data	2014/07/08 - 15:39
Site	SR2	Power	AC 120V/60Hz
Limit	FCC_Part15.107_CE_Class B	Polarity	Line
AMN	LISN_101683-FILTER ON	Test Mode	USB Copy

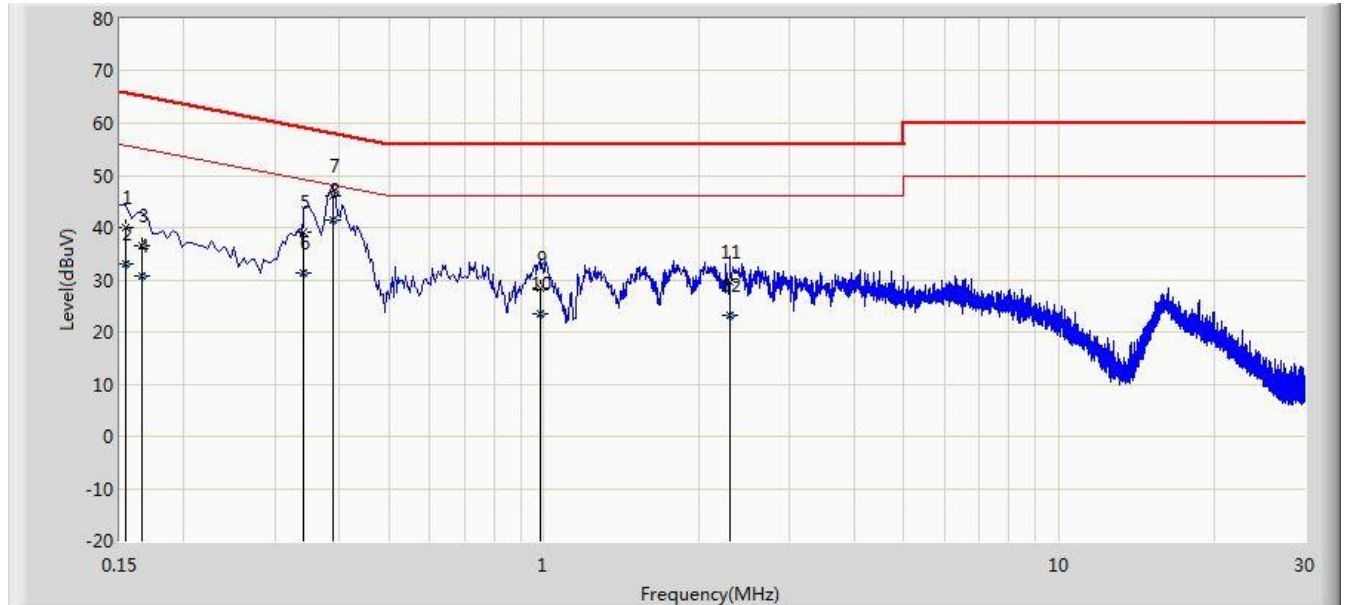


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.150	41.311	30.142	-24.689	66.000	11.168	QP
2			0.150	33.388	22.220	-22.612	56.000	11.168	AV
3		*	0.342	39.588	29.551	-19.566	59.155	10.038	QP
4			0.342	31.246	21.209	-17.908	49.155	10.038	AV
5			0.390	46.188	36.111	-11.876	58.064	10.077	QP
6			0.390	41.529	31.452	-6.535	48.064	10.077	AV
7			0.586	27.892	17.770	-28.108	56.000	10.122	QP
8			0.586	23.267	13.145	-22.733	46.000	10.122	AV
9			0.990	30.949	21.035	-25.051	56.000	9.914	QP
10			0.990	25.448	15.534	-20.552	46.000	9.914	AV
11			15.962	28.132	18.064	-31.868	60.000	10.068	QP
12			15.962	22.594	12.527	-27.406	50.000	10.068	AV

Note: Measure Level (dBuV) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Tested By	Roy Cheng	Test Data	2014/07/08 - 15:50
Site	SR2	Power	AC 120V/60Hz
Limit	FCC_Part15.107_CE_Class B	Polarity	Neutral
AMN	LISN_101683-FILTER ON	Test Mode	USB Copy



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.154	40.060	29.344	-25.721	65.781	10.716	QP
2			0.154	32.991	22.276	-22.790	55.781	10.716	AV
3		*	0.166	36.471	26.400	-28.687	65.158	10.071	QP
4			0.166	30.648	20.577	-24.510	55.158	10.071	AV
5			0.342	39.051	28.982	-20.104	59.155	10.069	QP
6			0.342	31.383	21.314	-17.772	49.155	10.069	AV
7			0.390	45.994	35.890	-12.069	58.064	10.105	QP
8			0.390	41.563	31.458	-6.501	48.064	10.105	AV
9			0.982	28.379	18.460	-27.621	56.000	9.918	QP
10			0.982	23.513	13.595	-22.487	46.000	9.918	AV
11			2.294	29.681	19.815	-26.319	56.000	9.866	QP
12			2.294	23.294	13.428	-22.706	46.000	9.866	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

6.3. Radiated Emission Measurement

6.3.1. Test Limit

FCC Part 15.109 Limits		
Frequency (MHz)	Distance (m)	Level (dB μ V/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

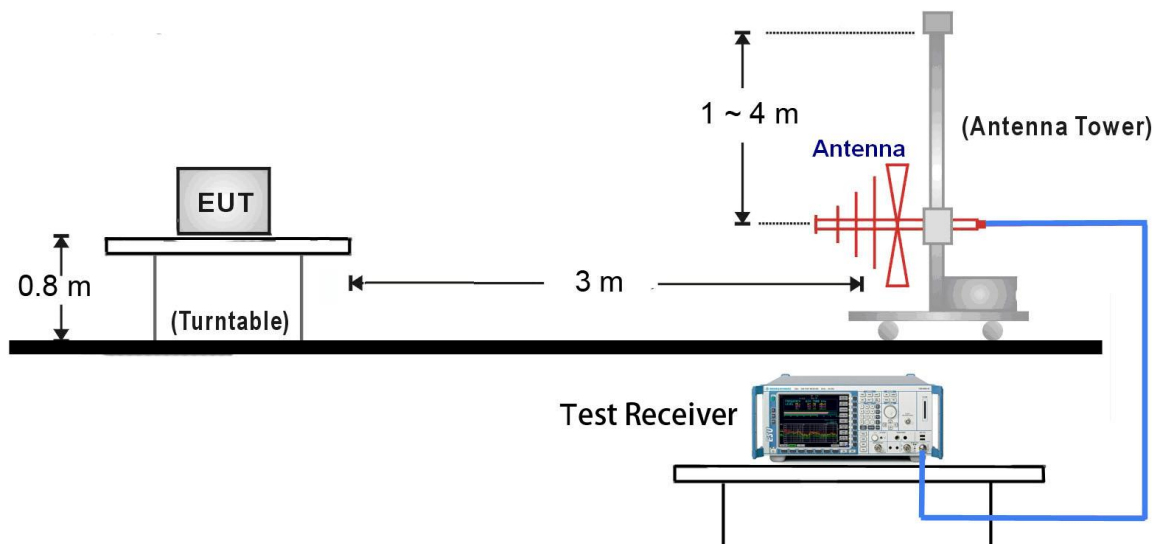
Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

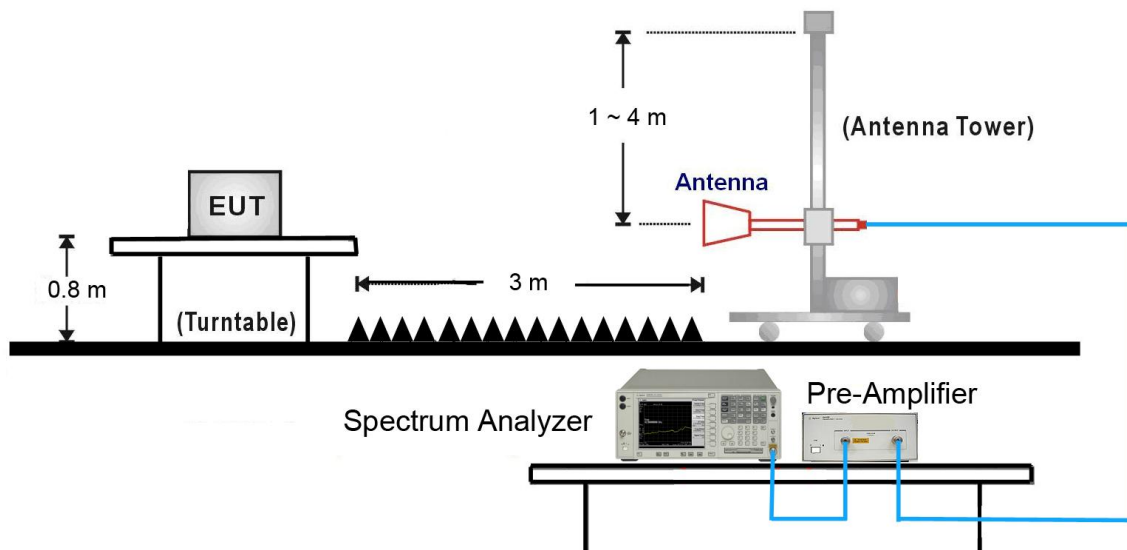
Note 3: E field strength (dB μ V/m) = 20 log E field strength (uV/m)

6.3.2. Test Setup

30MHz ~ 1GHz Test Setup:

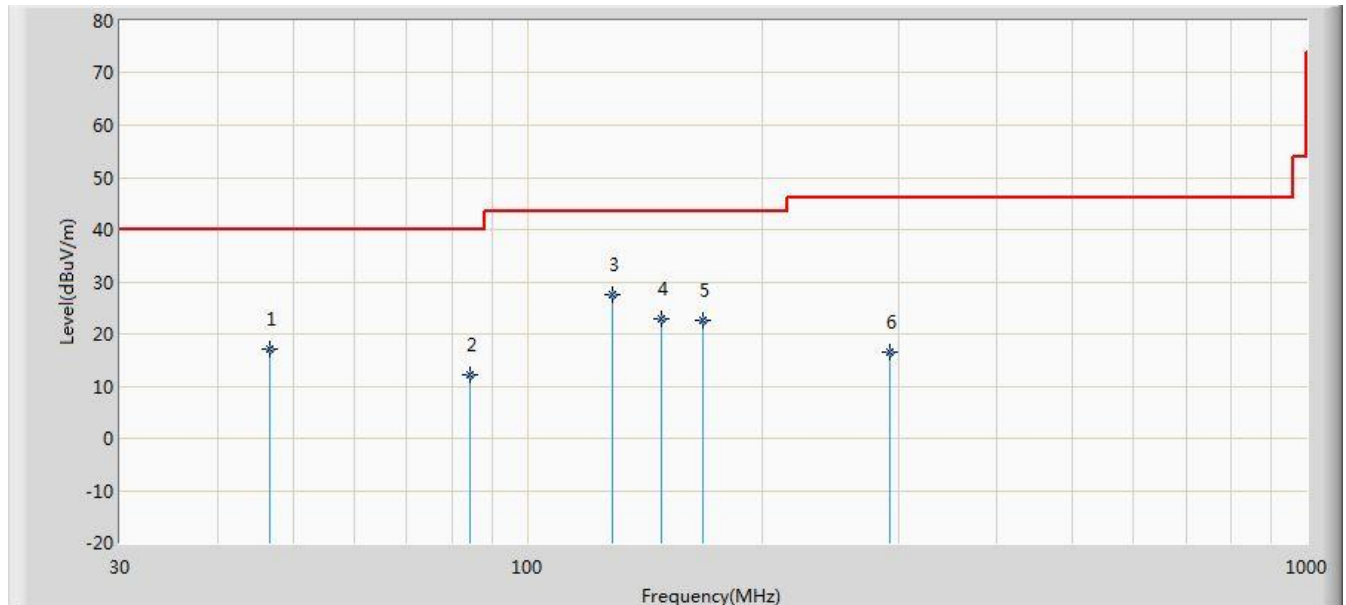


1GHz ~18GHz Test Setup:



6.3.3. Test Result of Radiated Emissions

Tested By	Roy Cheng	Test Data	2014/07/08 - 18:56
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Horizontal
Antenna	VULB9162_0.03-8GHz	Test Mode	Charging & Camera On

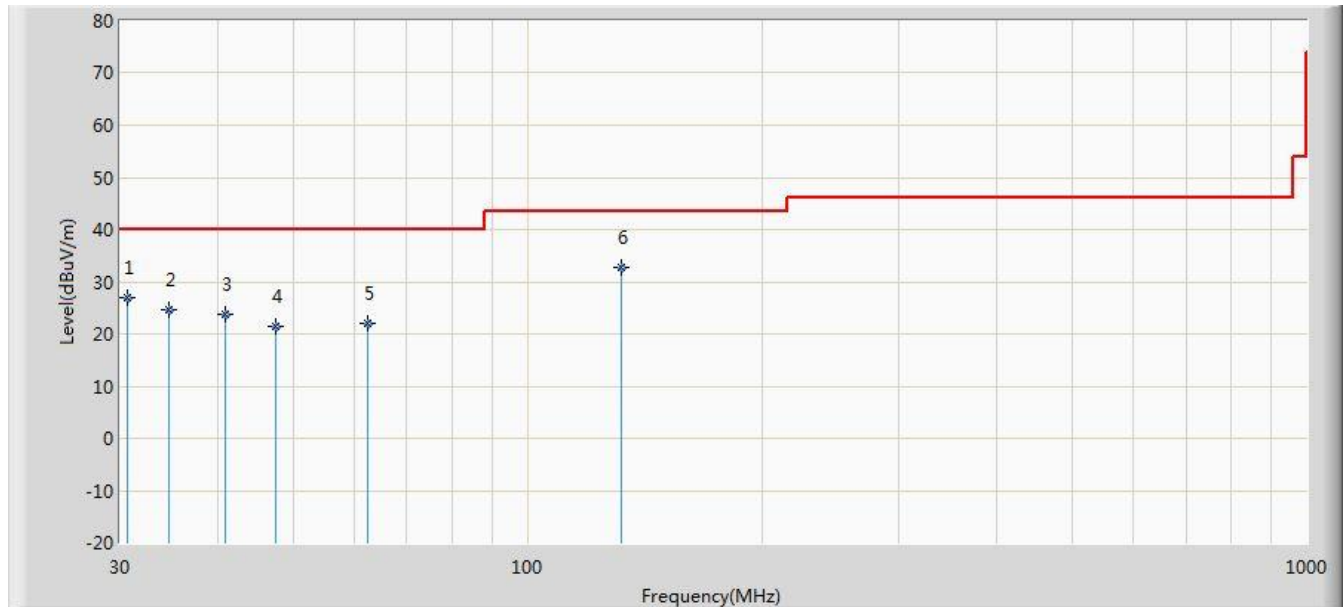


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			46.611	17.164	2.350	-22.836	40.000	14.814	QP
2		*	84.563	12.146	2.350	-27.854	40.000	9.796	QP
3			128.819	27.516	17.622	-15.984	43.500	9.894	QP
4			148.704	22.807	13.650	-20.693	43.500	9.157	QP
5			168.104	22.496	12.650	-21.004	43.500	9.846	QP
6			291.900	16.611	2.658	-29.389	46.000	13.953	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Tested By	Roy Cheng	Test Data	2014/07/08 - 18:56
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Vertical
Antenna	VULB9162_0.03-8GHz	Test Mode	Charging & Camera On

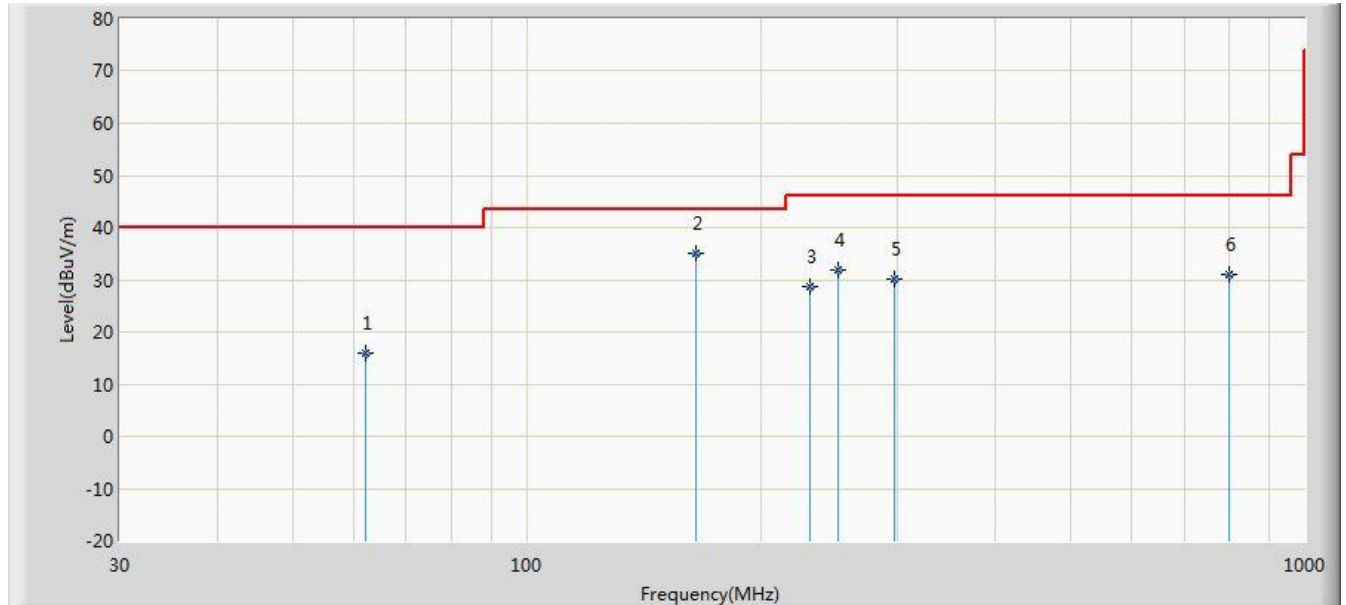


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			30.606	26.863	14.852	-13.137	40.000	12.011	QP
2			34.729	24.773	12.024	-15.227	40.000	12.749	QP
3			41.035	23.660	9.750	-16.340	40.000	13.910	QP
4			47.581	21.339	6.542	-18.661	40.000	14.798	QP
5			62.495	22.132	8.960	-17.868	40.000	13.172	QP
6		*	131.850	32.637	23.000	-10.863	43.500	9.637	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Tested By	Roy Cheng	Test Data	2014/07/08 - 18:56
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Horizontal
Antenna	VULB9162_0.03-8GHz	Test Mode	USB Copy

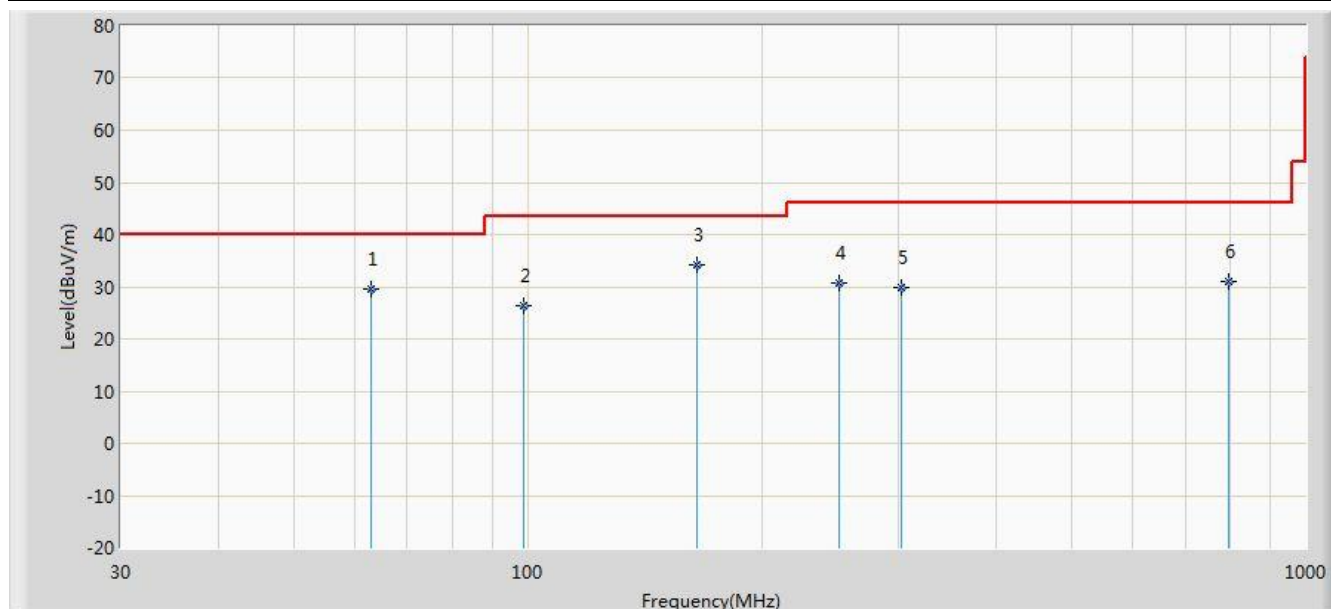


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			62.010	15.987	2.652	-24.013	40.000	13.335	QP
2		*	164.951	35.073	25.360	-8.427	43.500	9.713	QP
3			230.911	28.692	15.963	-17.308	46.000	12.729	QP
4			251.402	31.947	18.632	-14.053	46.000	13.315	QP
5			296.996	30.006	15.935	-15.994	46.000	14.071	QP
6			800.001	31.072	8.962	-14.928	46.000	22.109	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Tested By	Roy Cheng	Test Data	2014/07/08 - 18:56
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Vertical
Antenna	VULB9162_0.03-8GHz	Test Mode	USB Copy

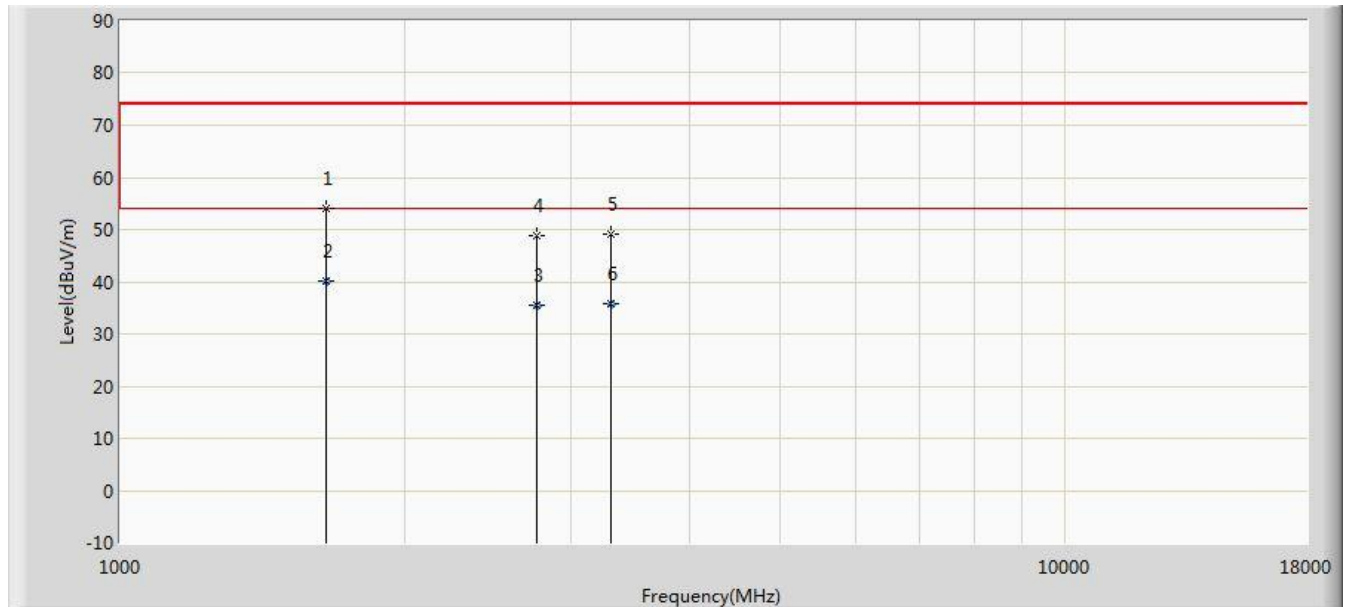


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			62.859	29.515	16.465	-10.485	40.000	13.050	QP
2			98.991	26.475	13.875	-17.025	43.500	12.601	QP
3			164.954	34.063	24.350	-9.437	43.500	9.713	QP
4			251.281	30.780	17.468	-15.220	46.000	13.312	QP
5			302.328	29.905	15.722	-16.095	46.000	14.183	QP
6		*	796.785	31.009	8.953	-14.991	46.000	22.055	QP

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Tested By	Roy Cheng	Test Data	2014/07/08 - 21:47
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Horizontal
Antenna	BBHA9120D_1-18GHz	Test Mode	Charging & Camera On

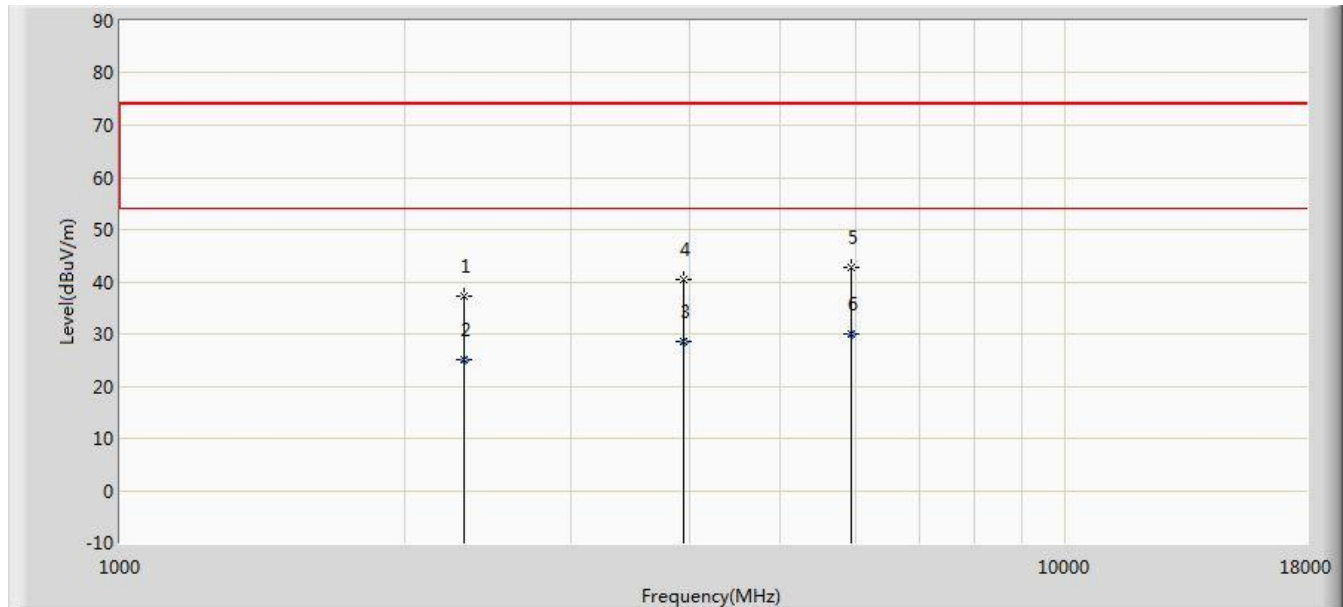


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			1654.500	54.145	56.593	-19.855	74.000	-2.449	PK
2		*	1654.500	40.207	42.655	-13.793	54.000	-2.449	AV
3			2758.650	35.583	34.210	-18.417	54.000	1.373	AV
4			2759.500	48.917	47.543	-25.083	74.000	1.373	PK
5			3312.000	49.013	47.928	-24.987	74.000	1.085	PK
6			3312.025	35.734	34.650	-18.266	54.000	1.084	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier (dB)

Tested By	Roy Cheng	Test Data	2014/07/08 - 21:47
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Vertical
Antenna	BBHA9120D_1-18GHz	Test Mode	Charging & Camera On

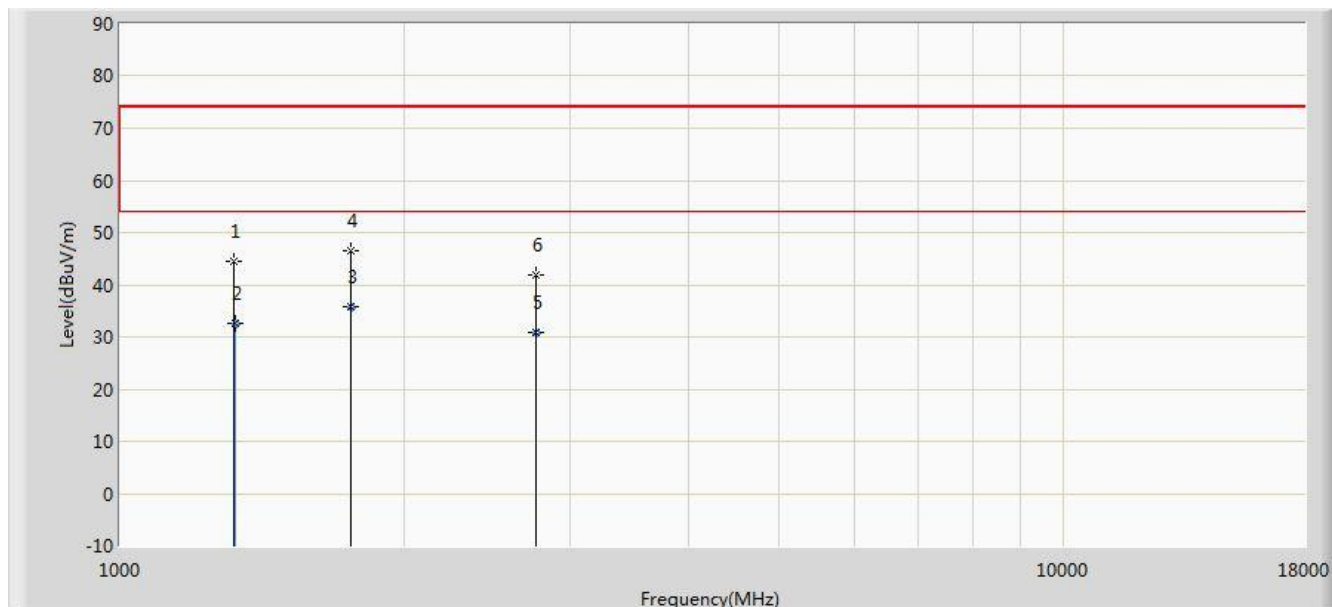


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2309.000	37.147	35.837	-36.853	74.000	1.310	PK
2			2309.340	24.958	23.650	-29.042	54.000	1.308	AV
3			3948.920	28.651	26.540	-25.349	54.000	2.111	AV
4			3949.500	40.336	38.224	-33.664	74.000	2.112	PK
5			5930.000	42.651	37.217	-31.349	74.000	5.434	PK
6		*	5930.540	29.983	24.550	-24.017	54.000	5.433	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier (dB)

Tested By	Roy Cheng	Test Data	2014/07/08 - 21:48
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Horizontal
Antenna	BBHA9120D_1-18GHz	Test Mode	USB Copy

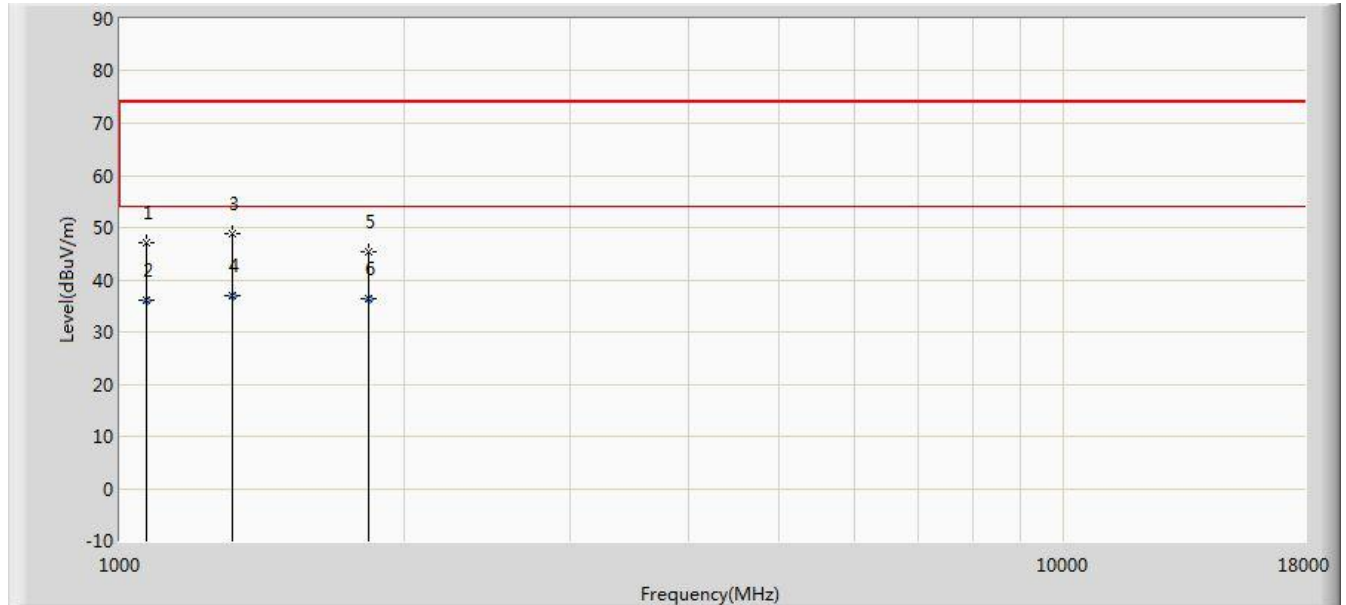


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			1323.000	44.600	47.402	-29.400	74.000	-2.802	PK
2		*	1323.650	32.566	35.365	-21.434	54.000	-2.799	AV
3			1756.350	35.669	37.655	-18.331	54.000	-1.986	AV
4			1756.500	46.519	48.504	-27.481	74.000	-1.985	PK
5			2759.360	30.914	29.540	-23.086	54.000	1.373	AV
6			2759.500	41.875	40.501	-32.125	74.000	1.373	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier (dB)

Tested By	Roy Cheng	Test Data	2014/07/08 - 21:48
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Vertical
Antenna	BBHA9120D_1-18GHz	Test Mode	USB Copy



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			1068.000	47.122	51.581	-26.878	74.000	-4.459	PK
2			1068.250	36.092	40.550	-17.908	54.000	-4.458	AV
3			1314.500	48.720	51.570	-25.280	74.000	-2.849	PK
4			1314.554	37.062	39.912	-16.938	54.000	-2.849	AV
5			1833.000	45.282	46.600	-28.718	74.000	-1.318	PK
6		*	1833.920	36.384	37.692	-17.616	54.000	-1.307	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier (dB)

7. CONCLUSION

The data collected relate only the item(s) tested and show that the **Tablet PC FCC ID: 2AA5TW7T** has been tested to comply with the requirements specified in §15.107 and §15.109 of the FCC Rules.

The End