

APPLICATION CERTIFICATION FCC Part 15B
On Behalf of
Eken (HK) Electronics Co., Ltd.

Tablet PC
Model No.: W70

FCC ID: PVV-W70

Prepared for : Eken (HK) Electronics Co., Ltd.
Address : Building 2F-2B, HuaFeng Science Park, GongHe Road,
XiXiang, Baoan District, ShenZhen, China

Prepared by : ACCURATE TECHNOLOGY CO. LTD
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Report Number : ATE20121873
Date of Test : August 31-September 5, 2012
Date of Report : September 7, 2012

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Test Report Certification

Applicant : Eken (HK) Electronics Co., Ltd.
Manufacturer : Eken (HK) Electronics Co., Ltd.
EUT Description : Tablet PC
(A) MODEL NO.: W70
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: DC 3.7V (Li-polymer battery) & AC 120V/60Hz
(Adapter input)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B
ANSI C63.4: 2009

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : August 31-September 5, 2012

Prepared by :



(Kitty Chen, Engineer)

Approved & Authorized Signer :



(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Tablet PC
Model Number	:	W70
Power Supply	:	DC 3.7V (Li-polymer battery) & AC 120V/60Hz (Adapter input)
Highest operation frequency of the EUT:	:	1.2GHz
Applicant	:	Eken (HK) Electronics Co., Ltd.
Address	:	Building 2F-2B, HuaFeng Science Park, GongHe Road, XiXiang, Baoan District, ShenZhen, China
Manufacturer	:	Eken (HK) Electronics Co., Ltd.
Address	:	Building 2F-2B, HuaFeng Science Park, GongHe Road, XiXiang, Baoan District, ShenZhen, China
Date of sample received	:	August 13, 2012
Date of Test	:	August 31-September 5, 2012

1.2. Accessory and Auxiliary Equipment

Notebook PC	:	Manufacturer: Lenovo M/N: 4290-RT8 S/N: R9-FW93G 11/08
LCD COLOUR TV	:	Manufacturer: SHARP M/N: LCD-19A33-BK Serial No.: 709913440
Printer	:	Manufacturer: Canon Model No.: BJC-1000SP

1.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.4. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated date	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 8, 2012	Jan. 7, 2013
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 8, 2012	Jan. 7, 2013
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 8, 2012	Jan. 7, 2013
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 8, 2012	Jan. 7, 2013
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 8, 2012	Jan. 7, 2013
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 8, 2012	Jan. 7, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 8, 2012	Jan. 7, 2013
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 8, 2012	Jan. 7, 2013

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The modes are used: 1) Running
2) Transfer data
3) HDMI

3.2.Configuration and peripherals



(EUT: Tablet PC)

4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.107	Conducted Emission Test	Compliant
Section 15.109	Radiated Emission Test	Compliant

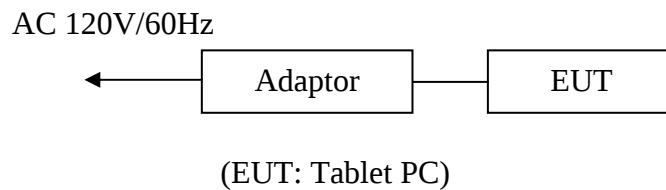
5. CONDUCTED EMISSION FOR FCC PART 15 SECTION

15.107(A)

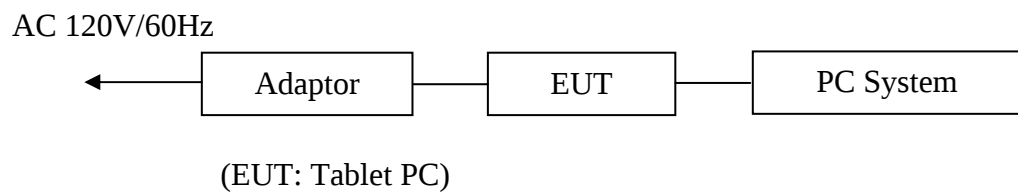
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators

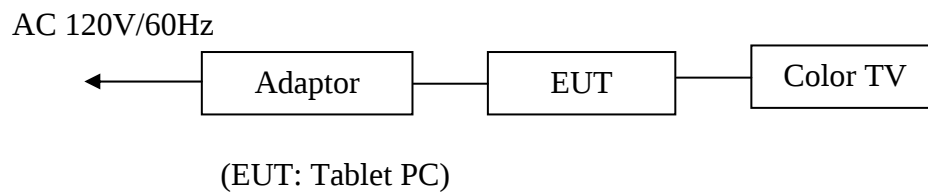
5.1.1.1. For Running



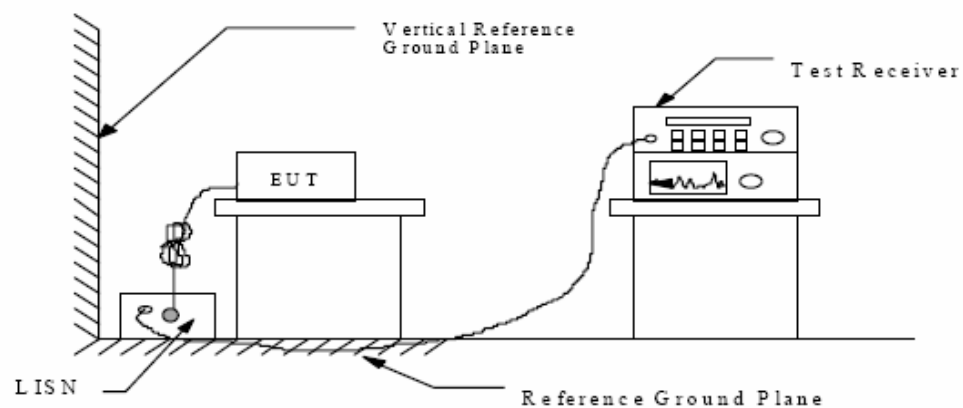
5.1.1.2. For Transfer data



5.1.1.3. For HDMI



5.1.2. Shielding Room Test Setup Diagram



(EUT: Tablet PC)

5.2.The Emission Limit

5.2.1.Conducted Emission Measurement Limits According to Section 15.107(a)

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

5.3.Configuration of EUT on Measurement

The following equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1.Tablet PC (EUT)

Model Number : W70
 Serial Number : N/A
 Manufacturer : Eken (HK) Electronics Co., Ltd.

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in modes (Running, Transfer data, HDMI) and measure it.

5.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

5.6.Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Date of Test:	August 31, 2012	Temperature:	25°C
EUT:	Tablet PC	Humidity:	50%
Model No.:	W70	Power Supply:	AC 120V/60Hz
Test Mode:	Running	Test Engineer:	ALEN

MEASUREMENT RESULT: "EK-V01_fin"

8/31/2012 9:44AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.192124	53.90	11.2	64	10.0	QP	L1	GND
1.027403	39.00	11.8	56	17.0	QP	L1	GND
1.090804	39.50	11.8	56	16.5	QP	L1	GND

MEASUREMENT RESULT: "EK-V01_fin2"

8/31/2012 9:44AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
1.027403	38.30	11.8	46	7.7	AV	L1	GND
1.090804	38.40	11.8	46	7.6	AV	L1	GND
1.153502	35.70	11.8	46	10.3	AV	L1	GND

MEASUREMENT RESULT: "EK-V02_fin"

8/31/2012 9:46AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.192124	53.30	11.2	64	10.6	QP	L1	GND
1.224684	39.90	11.8	56	16.1	QP	L1	GND
1.289919	39.40	11.8	56	16.6	QP	L1	GND

MEASUREMENT RESULT: "EK-V02_fin2"

8/31/2012 9:46AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
1.158116	36.80	11.8	46	9.2	AV	L1	GND
1.224684	39.20	11.8	46	6.8	AV	L1	GND
1.543759	34.70	11.7	46	11.3	AV	L1	GND

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

Date of Test:	September 5, 2012	Temperature:	25°C
EUT:	Tablet PC	Humidity:	50%
Model No.:	W70	Power Supply:	AC 120V/60Hz
Test Mode:	Transfer data	Test Engineer:	ALEN

MEASUREMENT RESULT: "EK-V13_fin"

9/5/2012 3:36PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.192892	53.80	11.2	64	10.1	QP	L1	GND
0.257124	47.10	11.4	62	14.4	QP	L1	GND
1.158116	38.10	11.8	56	17.9	QP	L1	GND

MEASUREMENT RESULT: "EK-V13_fin2"

9/5/2012 3:36PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
1.031513	38.40	11.8	46	7.6	AV	L1	GND
1.158116	37.60	11.8	46	8.4	AV	L1	GND
1.224684	39.20	11.8	46	6.8	AV	L1	GND

MEASUREMENT RESULT: "EK-V12_fin"

9/5/2012 3:34PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.191358	55.20	11.2	64	8.8	QP	N	GND
0.512950	40.40	12.0	56	15.6	QP	N	GND
0.897004	38.30	11.9	56	17.7	QP	N	GND

MEASUREMENT RESULT: "EK-V12_fin2"

9/5/2012 3:34PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.510906	37.80	12.0	46	8.2	AV	N	GND
0.959992	35.60	11.8	46	10.4	AV	N	GND
1.153502	36.90	11.8	46	9.1	AV	N	GND

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

Date of Test:	<u>September 5, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>Tablet PC</u>	Humidity:	<u>50%</u>
Model No.:	<u>W70</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>HDMI</u>	Test Engineer:	<u>ALEN</u>

MEASUREMENT RESULT: "EK-V10_fin"

9/5/2012 2:40PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.192124	55.20	11.2	64	8.7	QP	L1	GND
0.515002	45.40	12.0	56	10.6	QP	L1	GND
0.578211	44.10	12.0	56	11.9	QP	L1	GND

MEASUREMENT RESULT: "EK-V10_fin2"

9/5/2012 2:40PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.512950	42.70	12.0	46	3.3	AV	L1	GND
0.578211	43.70	12.0	46	2.3	AV	L1	GND
1.219805	37.60	11.8	46	8.4	AV	L1	GND

MEASUREMENT RESULT: "EK-V11_fin"

9/5/2012 2:43PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.193664	54.30	11.2	64	9.6	QP	N	GND
0.580524	44.70	12.0	56	11.3	QP	N	GND
0.904195	44.10	11.9	56	11.9	QP	N	GND

MEASUREMENT RESULT: "EK-V11_fin2"

9/5/2012 2:43PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.580524	44.40	12.0	46	1.6	AV	N	GND
0.904195	43.60	11.9	46	2.4	AV	N	GND
1.162749	41.70	11.8	46	4.3	AV	N	GND

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

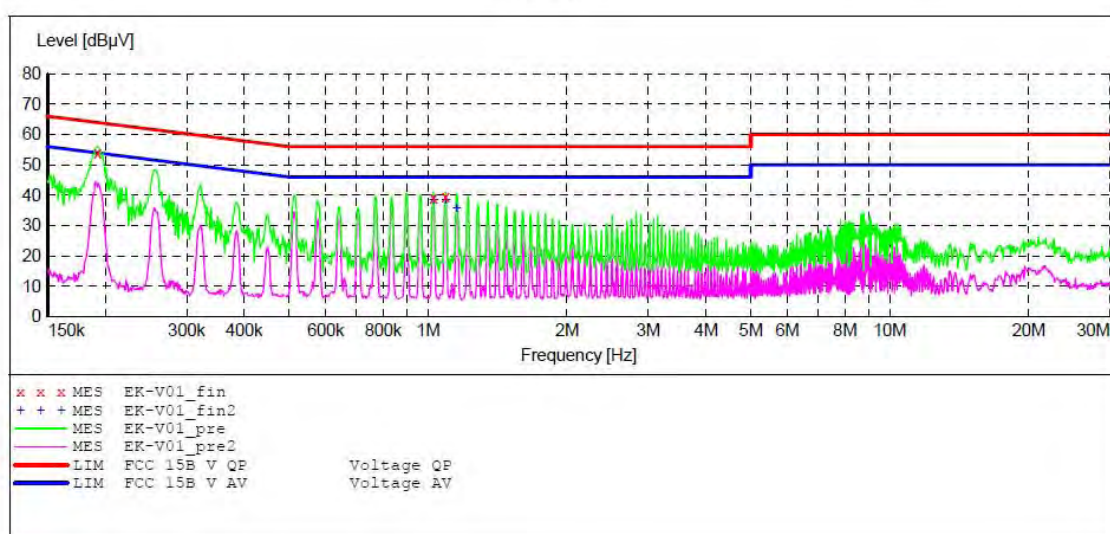
ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: Tablet PC M/N:W70
 Manufacturer: Eken
 Operating Condition: Running
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20121873
 Start of Test: 8/31/2012 / 9:41:31AM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			

**MEASUREMENT RESULT: "EK-V01_fin"**

8/31/2012 9:44AM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.192124	53.90	11.2	64	10.0	QP	L1	GND
1.027403	39.00	11.8	56	17.0	QP	L1	GND
1.090804	39.50	11.8	56	16.5	QP	L1	GND

MEASUREMENT RESULT: "EK-V01_fin2"

8/31/2012 9:44AM

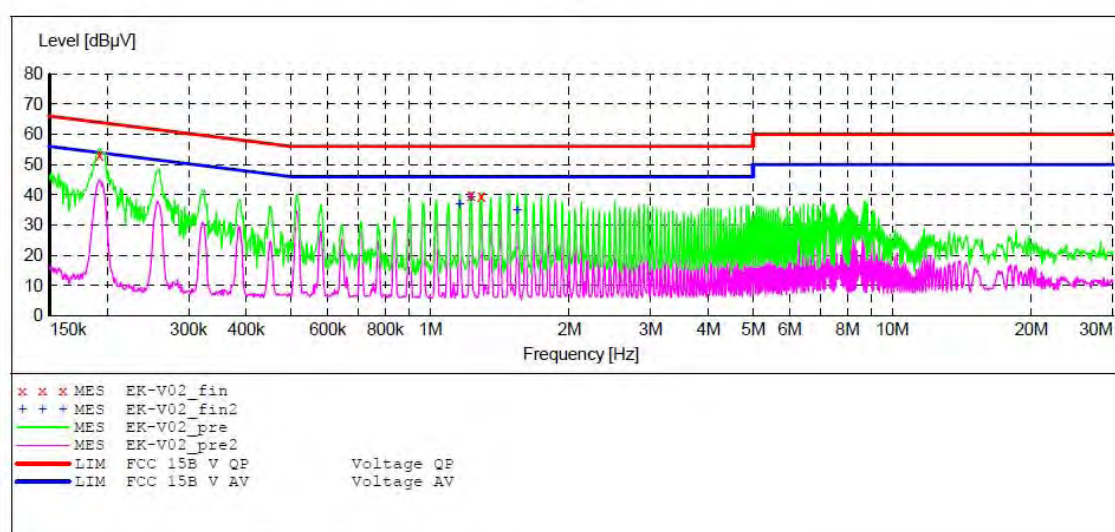
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
1.027403	38.30	11.8	46	7.7	AV	L1	GND
1.090804	38.40	11.8	46	7.6	AV	L1	GND
1.153502	35.70	11.8	46	10.3	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: Tablet PC M/N:W70
 Manufacturer: Eken
 Operating Condition: Running
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20121873
 Start of Test: 8/31/2012 / 9:44:57AM

SCAN TABLE: "V 150K-30MHZ fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "EK-V02_fin"**

8/31/2012 9:46AM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.192124	53.30	11.2	64	10.6	QP	L1	GND
1.224684	39.90	11.8	56	16.1	QP	L1	GND
1.289919	39.40	11.8	56	16.6	QP	L1	GND

MEASUREMENT RESULT: "EK-V02_fin2"

8/31/2012 9:46AM

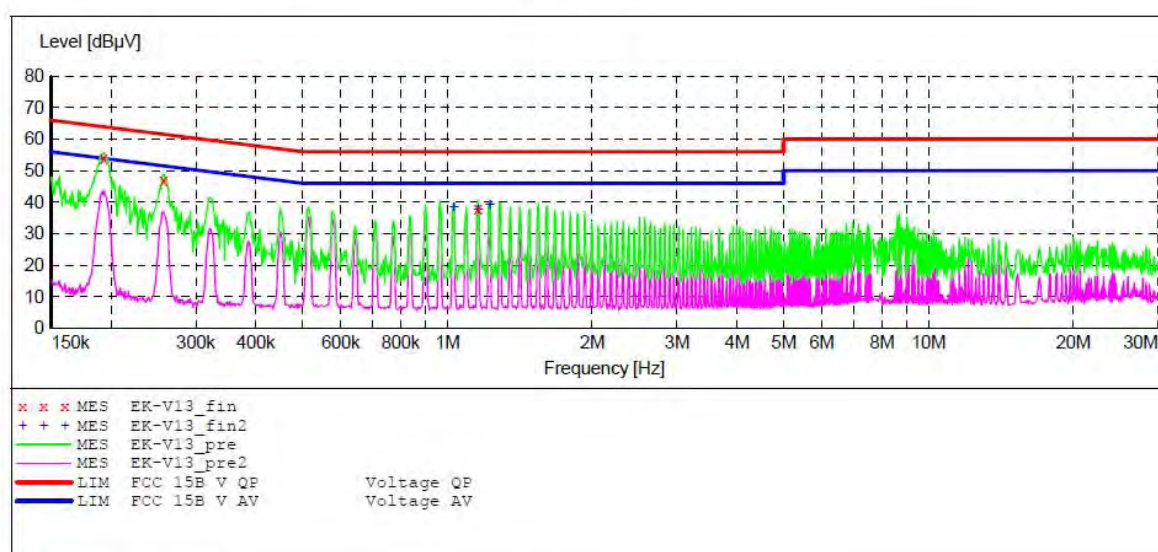
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
1.158116	36.80	11.8	46	9.2	AV	L1	GND
1.224684	39.20	11.8	46	6.8	AV	L1	GND
1.543759	34.70	11.7	46	11.3	AV	L1	GND

ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Tablet PC M/N:W70
 Manufacturer: Eken
 Operating Condition: Transfer data
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report No:ATE20121873
 Start of Test: 9/5/2012 / 3:34:50PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "EK-V13_fin"**

9/5/2012 3:36PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.192892	53.80	11.2	64	10.1	QP	L1	GND
0.257124	47.10	11.4	62	14.4	QP	L1	GND
1.158116	38.10	11.8	56	17.9	QP	L1	GND

MEASUREMENT RESULT: "EK-V13_fin2"

9/5/2012 3:36PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
1.031513	38.40	11.8	46	7.6	AV	L1	GND
1.158116	37.60	11.8	46	8.4	AV	L1	GND
1.224684	39.20	11.8	46	6.8	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

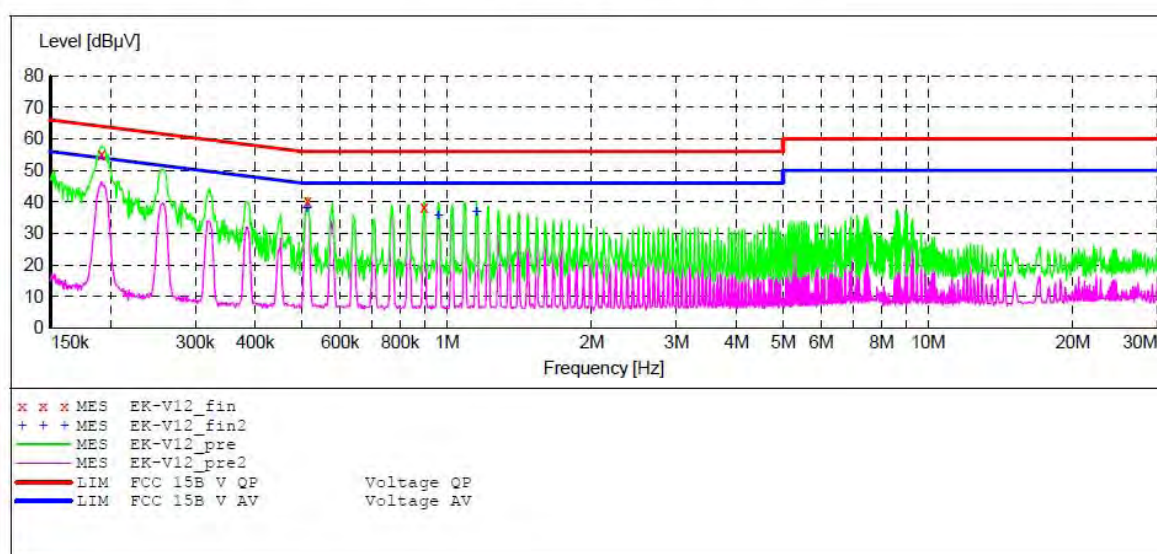
EUT: Tablet PC M/N:W70
 Manufacturer: Eken
 Operating Condition: Transfer data
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: N 120V/60Hz
 Comment: Report No:ATE20121873
 Start of Test: 9/5/2012 / 3:32:02PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008

 Average

**MEASUREMENT RESULT: "EK-V12_fin"**

9/5/2012 3:34PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.191358	55.20	11.2	64	8.8	QP	N	GND
0.512950	40.40	12.0	56	15.6	QP	N	GND
0.897004	38.30	11.9	56	17.7	QP	N	GND

MEASUREMENT RESULT: "EK-V12_fin2"

9/5/2012 3:34PM

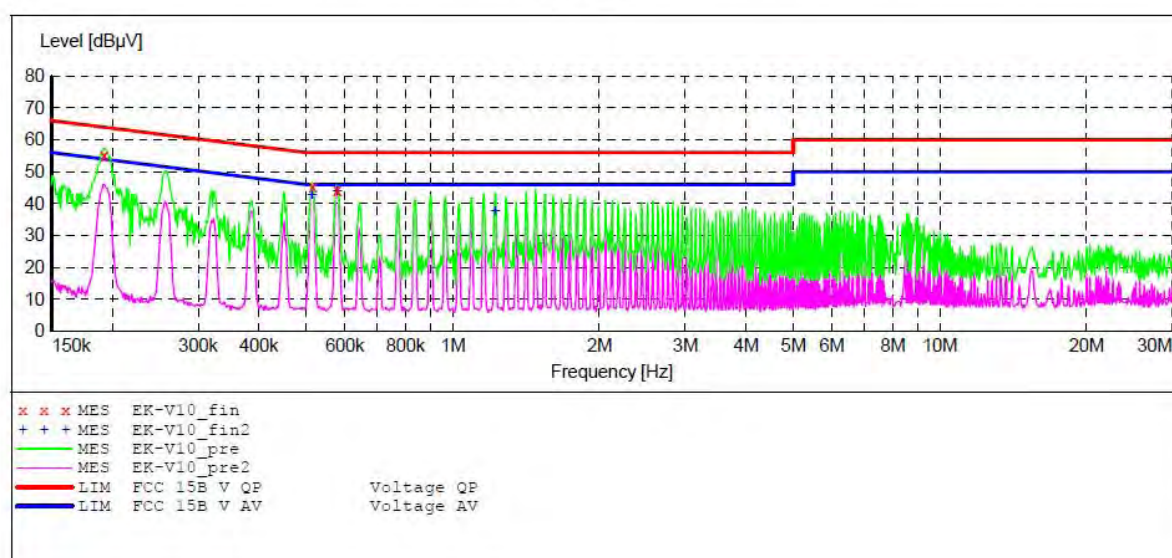
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.510906	37.80	12.0	46	8.2	AV	N	GND
0.959992	35.60	11.8	46	10.4	AV	N	GND
1.153502	36.90	11.8	46	9.1	AV	N	GND

ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Tablet PC M/N:W70
 Manufacturer: Eken
 Operating Condition: HDMI
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report No:ATE20121873
 Start of Test: 9/5/2012 / 2:38:05PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "EK-V10_fin"**

9/5/2012 2:40PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.192124	55.20	11.2	64	8.7	QP	L1	GND
0.515002	45.40	12.0	56	10.6	QP	L1	GND
0.578211	44.10	12.0	56	11.9	QP	L1	GND

MEASUREMENT RESULT: "EK-V10_fin2"

9/5/2012 2:40PM

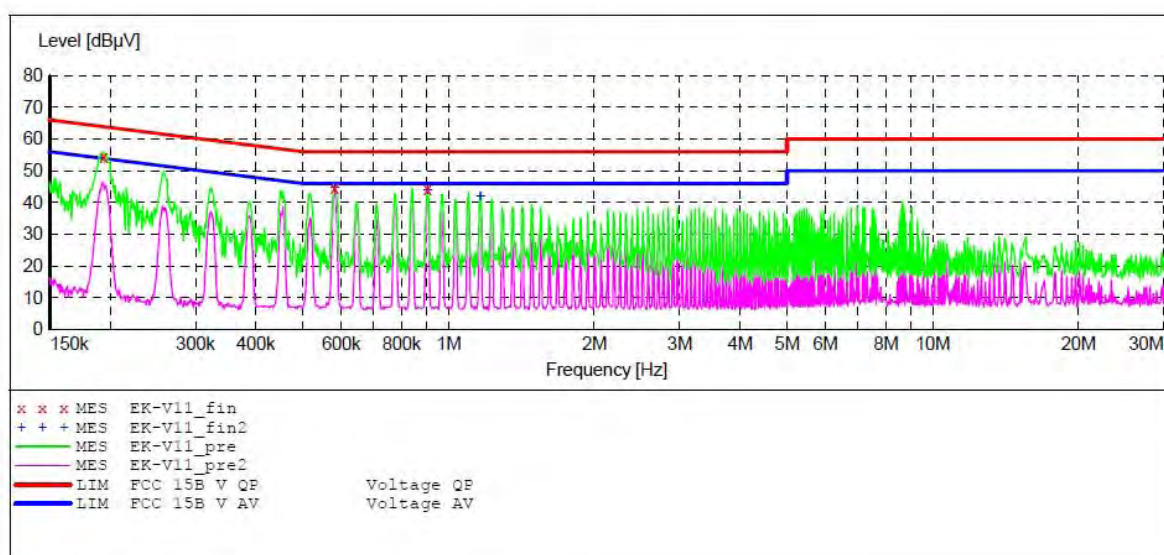
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.512950	42.70	12.0	46	3.3	AV	L1	GND
0.578211	43.70	12.0	46	2.3	AV	L1	GND
1.219805	37.60	11.8	46	8.4	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Tablet PC M/N:W70
 Manufacturer: Eken
 Operating Condition: HDMI
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: N 120V/60Hz
 Comment: Report No:ATE20121873
 Start of Test: 9/5/2012 / 2:40:41PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "EK-V11_fin"**

9/5/2012 2:43PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.193664	54.30	11.2	64	9.6	QP	N	GND
0.580524	44.70	12.0	56	11.3	QP	N	GND
0.904195	44.10	11.9	56	11.9	QP	N	GND

MEASUREMENT RESULT: "EK-V11_fin2"

9/5/2012 2:43PM

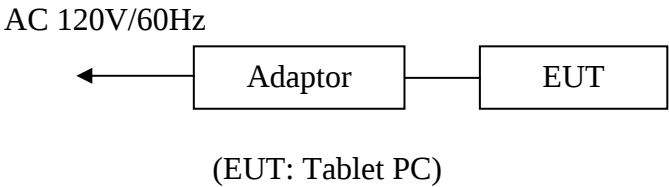
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.580524	44.40	12.0	46	1.6	AV	N	GND
0.904195	43.60	11.9	46	2.4	AV	N	GND
1.162749	41.70	11.8	46	4.3	AV	N	GND

6. RADIATED EMISSION FOR FCC PART 15 SECTION 15.109(A)

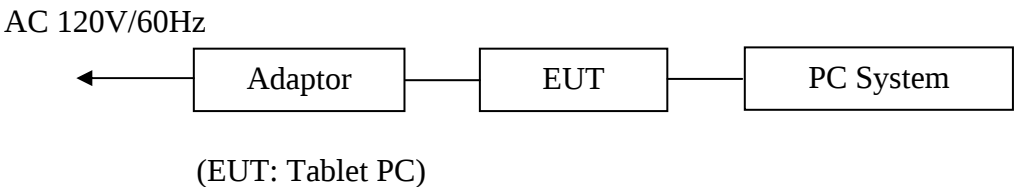
6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators

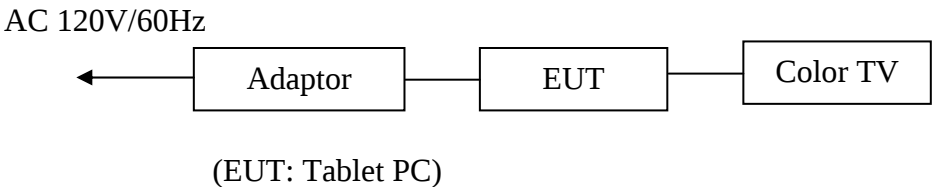
6.1.1.1. For Running



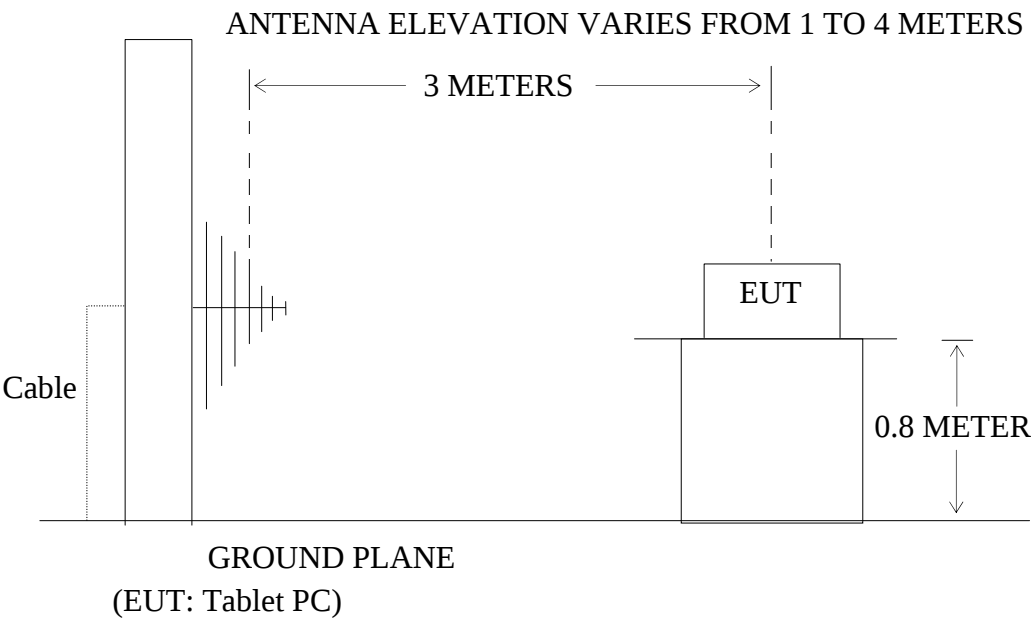
6.1.1.2. For Transfer data



6.1.1.3. For HDMI



6.1.2. Semi-Anechoic Chamber Test Setup Diagram



6.2.The Emission Limit For Section 15.109 (a)

6.2.1.Radiation Emission Measurement Limits According to Section 15.109 (a).

Frequency (MHz)	Limit	
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dBμV/m)
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

6.3.EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1.Tablet PC (EUT)

Model Number : W70
 Serial Number : N/A
 Manufacturer : Eken (HK) Electronics Co., Ltd.

6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 6.1.

6.4.2.Turn on the power of all equipment.

6.4.3. Let the EUT work in (Running, Transfer data, HDMI) mode measure it.

6.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz and 1MHz in above 1000MHz.

The frequency range from 30MHz to 6000MHz is checked.

6.6.The Emission Measurement Result

PASS.

Date of Test:	September 4-5, 2012	Temperature:	25°C
EUT:	Tablet PC	Humidity:	50%
Model No.:	W70	Power Supply:	AC 120V/60Hz
Test Mode:	Running	Test Engineer:	ALEN

Frequency: 30-1000MHz									
Polarization									
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	262.1926	23.07	18.63	41.70	46.00	-4.30	QP	
	2	360.9775	21.04	21.29	42.33	46.00	-3.67	QP	
	3	394.1197	20.53	22.04	42.57	46.00	-3.43	QP	
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	394.1199	20.55	22.04	42.59	46.00	-3.41	QP	
	2	430.3053	19.32	22.99	42.31	46.00	-3.69	QP	
	3	495.2379	14.89	23.96	38.85	46.00	-7.15	QP	
Frequency: 1000-6000MHz									
Polarization									
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	1169.790	56.87	-12.50	44.37	74.00	-29.63	peak	
	2	1169.790	53.68	-12.50	41.18	54.00	-12.82	AVG	
	3	2105.311	52.50	-8.45	44.05	74.00	-29.95	peak	
	4	2105.311	49.64	-8.45	41.19	54.00	-12.81	AVG	
	5	2749.020	50.76	-6.10	44.66	74.00	-29.34	peak	
	6	2749.020	46.96	-6.10	40.86	54.00	-13.14	AVG	
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	1106.215	59.57	-12.59	46.98	74.00	-27.02	peak	
	2	1106.215	56.32	-12.59	43.73	54.00	-10.27	AVG	
	3	1169.790	62.83	-12.50	50.33	74.00	-23.67	peak	
	4	1169.790	59.36	-12.50	46.86	54.00	-7.14	AVG	
	5	2749.020	51.40	-6.10	45.30	74.00	-28.70	peak	
	6	2749.020	48.69	-6.10	42.59	54.00	-11.41	AVG	

Date of Test:	September 4-5, 2012	Temperature:	25°C
EUT:	Tablet PC	Humidity:	50%
Model No.:	W70	Power Supply:	AC 120V/60Hz
Test Mode:	Transfer data	Test Engineer:	ALEN

Frequency: 30-1000MHz									
Polarization									
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	240.1442	24.55	16.77	41.32	46.00	-4.68	QP	
	2	316.9717	23.30	19.25	42.55	46.00	-3.45	QP	
	3	609.3176	17.30	25.73	43.03	46.00	-2.97	QP	
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	180.0302	27.20	13.08	40.28	43.50	-3.22	QP	
	2	430.3052	19.92	22.99	42.91	46.00	-3.09	QP	
	3	582.1122	17.55	25.44	42.99	46.00	-3.01	QP	
Frequency: 1000-6000MHz									
Polarization									
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	1169.790	60.63	-12.50	48.13	74.00	-25.87	peak	
	2	1169.790	57.63	-12.50	45.13	54.00	-8.87	AVG	
	3	1965.930	55.60	-9.21	46.39	74.00	-27.61	peak	
	4	1965.930	52.30	-9.21	43.09	54.00	-10.91	AVG	
	5	2749.020	55.95	-6.10	49.85	74.00	-24.15	peak	
	6	2749.020	52.69	-6.10	46.59	54.00	-7.41	AVG	
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	1169.790	56.99	-12.50	44.49	74.00	-29.51	peak	
	2	1169.790	53.95	-12.50	41.45	54.00	-12.55	AVG	
	3	2067.702	57.13	-8.77	48.36	74.00	-25.64	peak	
	4	2067.702	54.63	-8.77	45.86	54.00	-8.14	AVG	
	5	2749.020	58.15	-6.10	52.05	74.00	-21.95	peak	
	6	2749.020	55.30	-6.10	49.20	54.00	-4.80	AVG	

Date of Test:	September 4-5, 2012	Temperature:	25°C
EUT:	Tablet PC	Humidity:	50%
Model No.:	W70	Power Supply:	AC 120V/60Hz
Test Mode:	HDMI	Test Engineer:	ALEN

Frequency: 30-1000MHz									
Polarization									
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	259.4433	25.03	18.52	43.55	46.00	-2.45	QP	
	2	360.9775	22.46	21.29	43.75	46.00	-2.25	QP	
	3	626.6878	17.19	26.06	43.25	46.00	-2.75	QP	
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	298.5932	24.36	18.64	43.00	46.00	-3.00	QP	
	2	360.9775	23.01	21.29	44.30	46.00	-1.70	QP	
	3	586.2172	18.04	25.42	43.46	46.00	-2.54	QP	
Frequency: 1000-6000MHz									
Polarization									
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	1481.361	62.64	-11.54	51.10	74.00	-22.90	peak	
	2	1481.361	60.00	-11.54	48.46	54.00	-5.54	AVG	
	3	2489.552	59.80	-7.39	52.41	74.00	-21.59	peak	
	4	2489.552	56.95	-7.39	49.56	54.00	-4.44	AVG	
	5	2809.132	58.43	-6.03	52.40	74.00	-21.60	peak	
	6	2809.132	55.31	-6.03	49.28	54.00	-4.72	AVG	
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	1324.721	64.14	-12.15	51.99	74.00	-22.01	peak	
	2	1324.721	62.03	-12.15	49.88	54.00	-4.12	AVG	
	3	1478.693	61.84	-11.54	50.30	74.00	-23.70	peak	
	4	1478.693	58.07	-11.54	46.53	54.00	-7.47	AVG	
	5	2970.574	56.76	-5.40	51.36	74.00	-22.64	peak	
	6	2970.574	53.67	-5.40	48.27	54.00	-5.73	AVG	

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. The field strength is calculated by adding the antenna factor, high pass filter loss (if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams are attached as below display the measurement of peak values.



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Site: 966 chamber

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Fax:+86-0755-26503396

Job No.: ALEN #174

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Tablet PC

Mode: Running

Model: W70

Manufacturer: Eken

Polarization: Horizontal

Power Source: AC 120V/60Hz

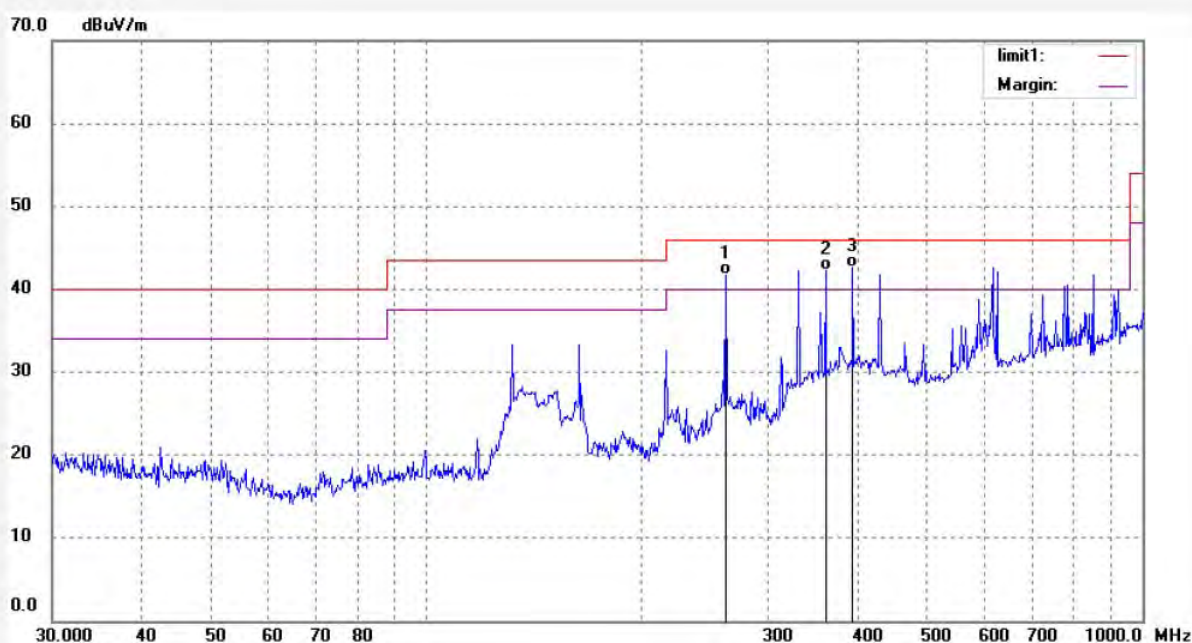
Date: 12/09/04/

Time: 13/48/00

Engineer Signature: alen

Distance: 3m

Note: Report No:ATE20121873



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	262.1926	23.07	18.63	41.70	46.00	-4.30	QP			
2	360.9775	21.04	21.29	42.33	46.00	-3.67	QP			
3	394.1197	20.53	22.04	42.57	46.00	-3.43	QP			



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Site: 966 chamber
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Fax:+86-0755-26503396

Job No.: ALEN #175

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Tablet PC

Mode: Running

Model: W70

Manufacturer: Eken

Polarization: Vertical

Power Source: AC 120V/60Hz

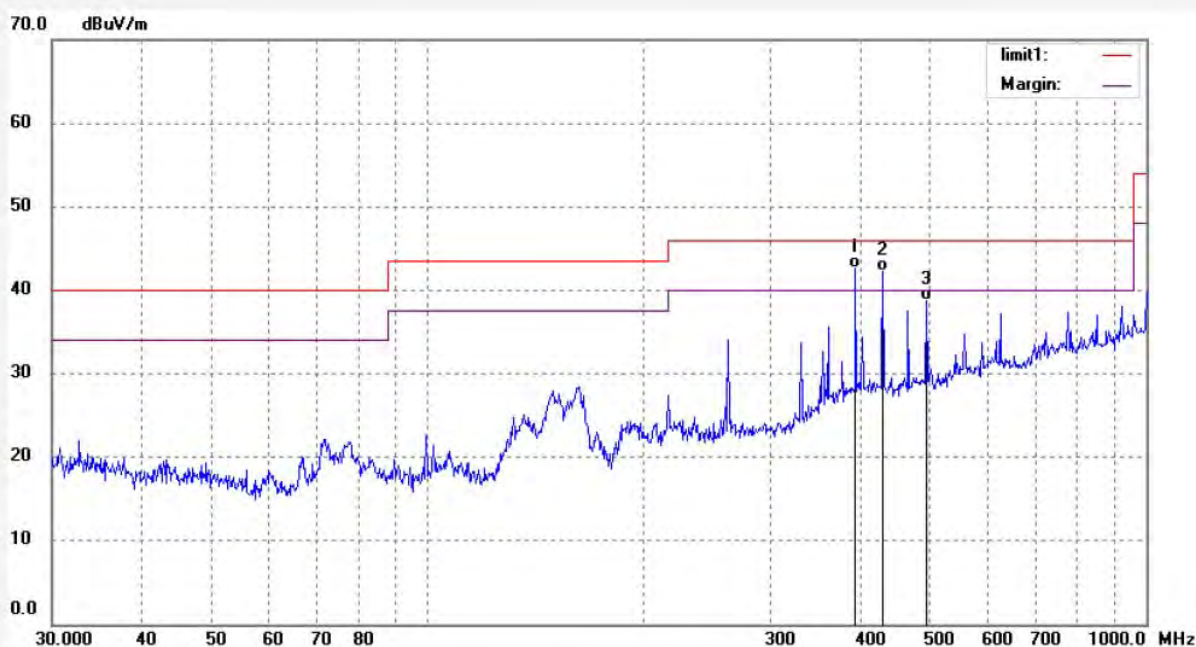
Date: 12/09/04/

Time: 13/49/34

Engineer Signature: alen

Distance: 3m

Note: Report No:ATE20121873



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	394.1199	20.55	22.04	42.59	46.00	-3.41	QP			
2	430.3053	19.32	22.99	42.31	46.00	-3.69	QP			
3	495.2379	14.89	23.96	38.85	46.00	-7.15	QP			



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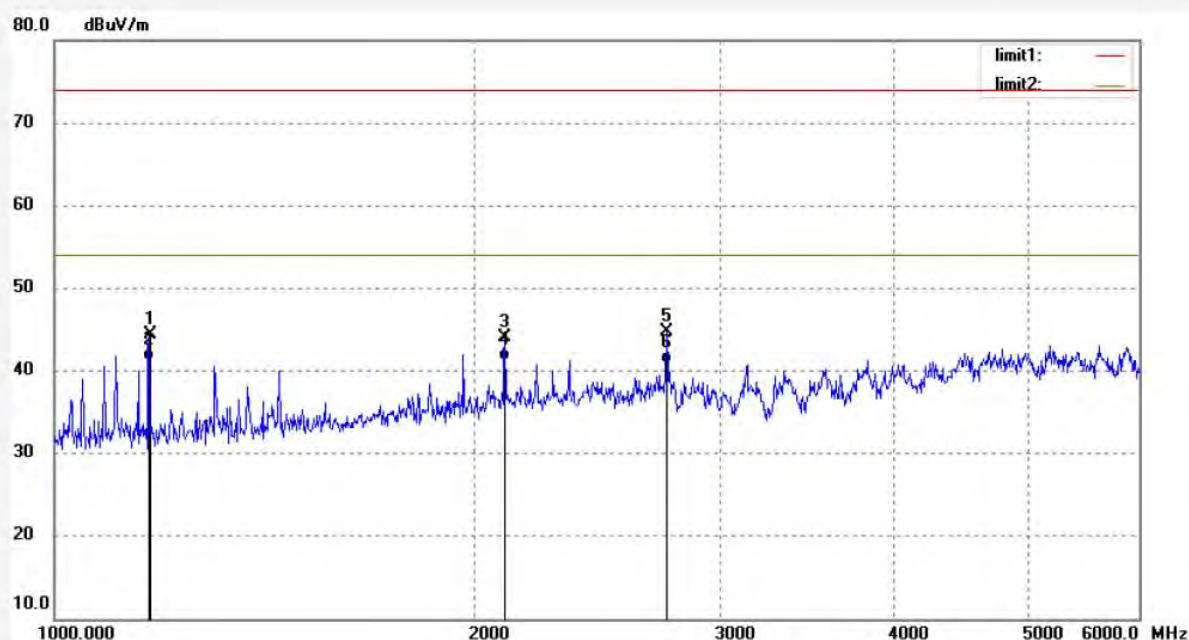
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #162
Standard: FCC PART 15B (PK)
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: Running
Model: W70
Manufacturer: Eken

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 12/09/04/
Time: 9/52/24
Engineer Signature: alen
Distance: 3m

Note: Report No:ATE20121873



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1169.790	56.87	-12.50	44.37	74.00	-29.63	peak			
2	1169.790	53.68	-12.50	41.18	54.00	-12.82	AVG			
3	2105.311	52.50	-8.45	44.05	74.00	-29.95	peak			
4	2105.311	49.64	-8.45	41.19	54.00	-12.81	AVG			
5	2749.020	50.76	-6.10	44.66	74.00	-29.34	peak			
6	2749.020	46.96	-6.10	40.86	54.00	-13.14	AVG			


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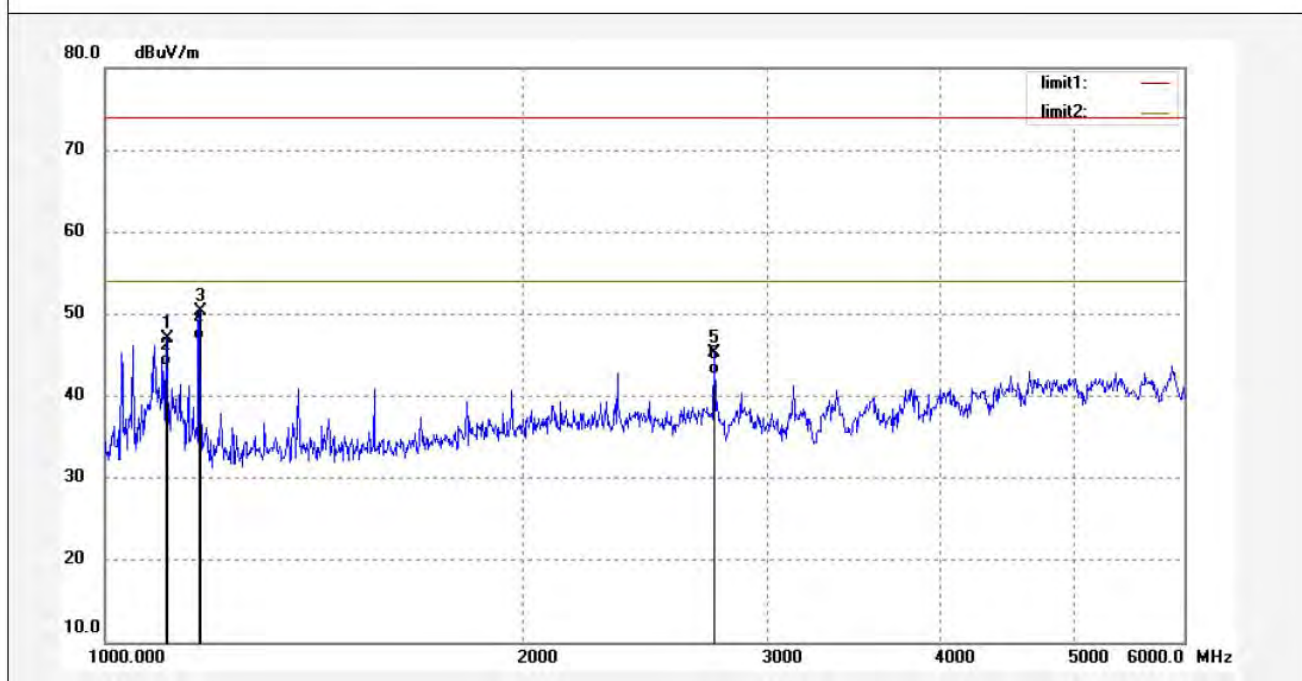
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #164
Standard: FCC PART 15B (PK)
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: Running
Model: W70
Manufacturer: Eken

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 12/09/04/
Time: 9/55/35
Engineer Signature: alen
Distance: 3m

Note: Report No:ATE20121873



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1106.215	59.57	-12.59	46.98	74.00	-27.02	peak			
2	1106.215	56.32	-12.59	43.73	54.00	-10.27	AVG			
3	1169.790	62.83	-12.50	50.33	74.00	-23.67	peak			
4	1169.790	59.36	-12.50	46.86	54.00	-7.14	AVG			
5	2749.020	51.40	-6.10	45.30	74.00	-28.70	peak			
6	2749.020	48.69	-6.10	42.59	54.00	-11.41	AVG			



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Job No.: ALEN #186

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Tablet PC

Mode: Transfer data

Model: W70

Manufacturer: Eken

Polarization: Horizontal

Power Source: AC 120V/60Hz

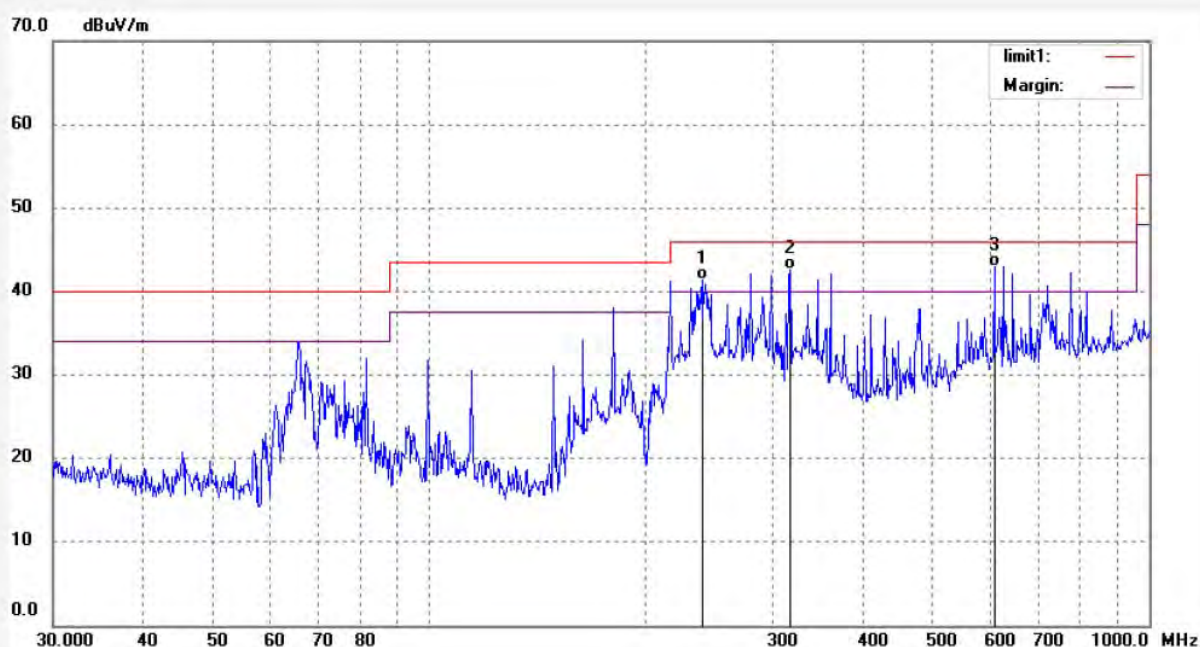
Date: 2012/09/04

Time: 23:54:17

Engineer Signature: alen

Distance: 3m

Note: Report No:ATE20121873



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	240.1442	24.55	16.77	41.32	46.00	-4.68	QP			
2	316.9717	23.30	19.25	42.55	46.00	-3.45	QP			
3	609.3176	17.30	25.73	43.03	46.00	-2.97	QP			



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Job No.: ALEN #187

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Tablet PC

Mode: Transfer data

Model: W70

Manufacturer: Eken

Polarization: Vertical

Power Source: AC 120V/60Hz

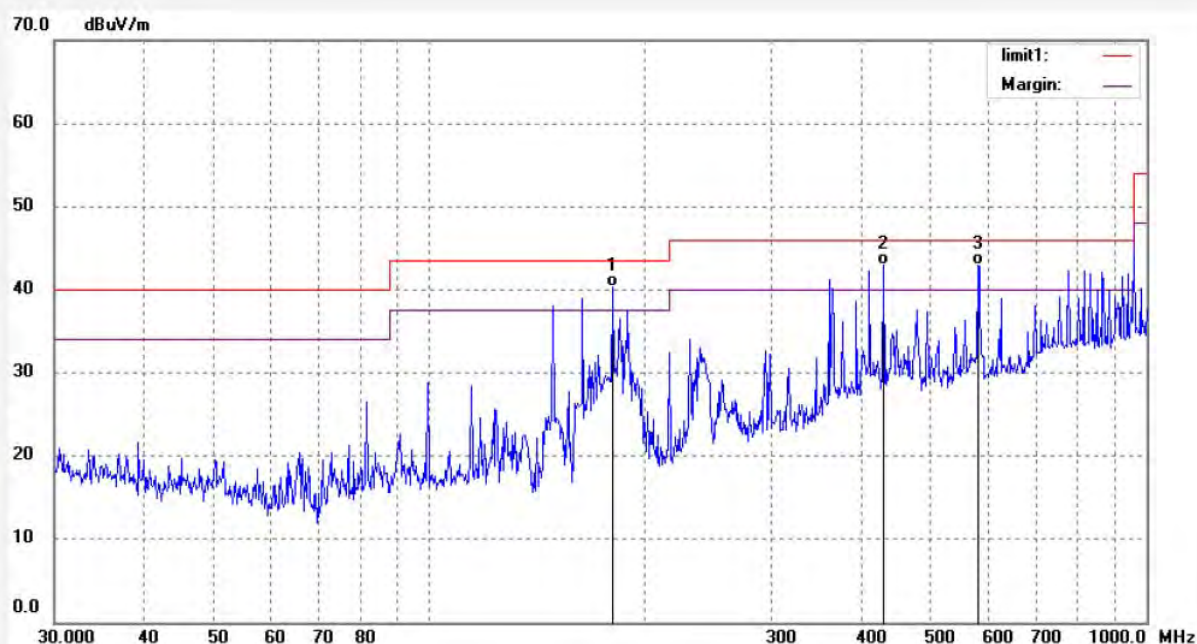
Date: 2012/09/04

Time: 23:54:38

Engineer Signature: alen

Distance: 3m

Note: Report No:ATE20121873



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	180.0302	27.20	13.08	40.28	43.50	-3.22	QP			
2	430.3052	19.92	22.99	42.91	46.00	-3.09	QP			
3	582.1122	17.55	25.44	42.99	46.00	-3.01	QP			



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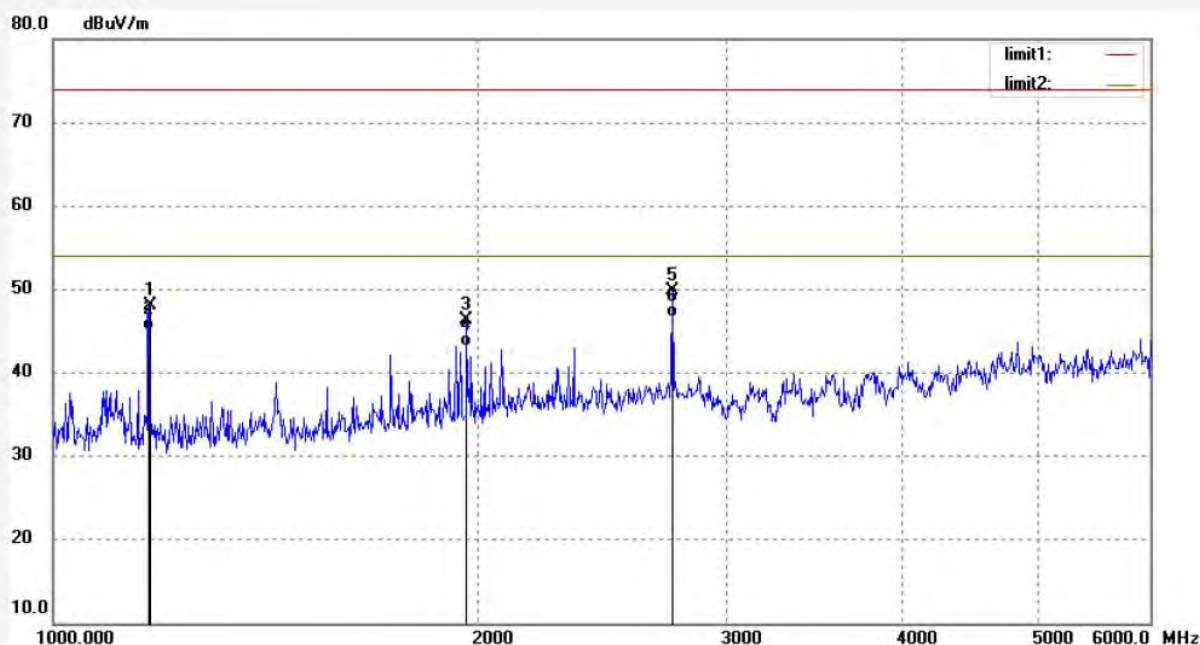
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #192
Standard: FCC PART 15B (PK)
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: Transfer data
Model: W70
Manufacturer: Eken

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/09/05
Time: 0:13:34
Engineer Signature: alen
Distance: 3m

Note: Report No:ATE20121873



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1169.790	60.63	-12.50	48.13	74.00	-25.87	peak			
2	1169.790	57.63	-12.50	45.13	54.00	-8.87	AVG			
3	1965.930	55.60	-9.21	46.39	74.00	-27.61	peak			
4	1965.930	52.30	-9.21	43.09	54.00	-10.91	AVG			
5	2749.020	55.95	-6.10	49.85	74.00	-24.15	peak			
6	2749.020	52.69	-6.10	46.59	54.00	-7.41	AVG			



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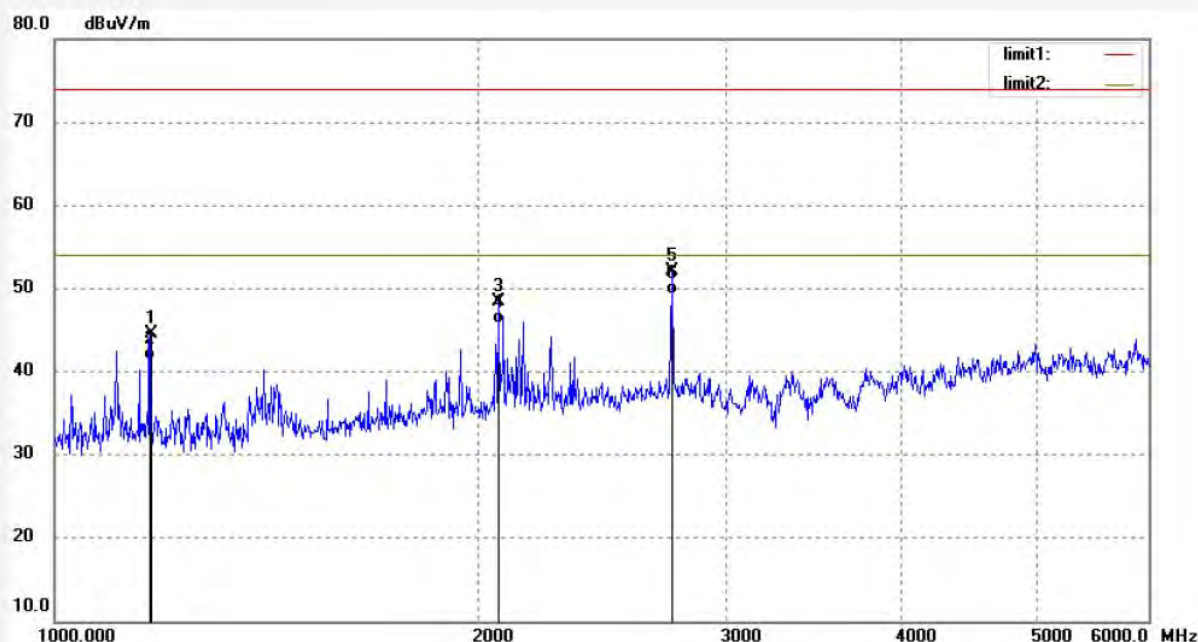
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #193
Standard: FCC PART 15B (PK)
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: Transfer data
Model: W70
Manufacturer: Eken

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/09/05
Time: 0:14:17
Engineer Signature: alen
Distance: 3m

Note: Report No:ATE20121873



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1169.790	56.99	-12.50	44.49	74.00	-29.51	peak			
2	1169.790	53.95	-12.50	41.45	54.00	-12.55	AVG			
3	2067.702	57.13	-8.77	48.36	74.00	-25.64	peak			
4	2067.702	54.63	-8.77	45.86	54.00	-8.14	AVG			
5	2749.020	58.15	-6.10	52.05	74.00	-21.95	peak			
6	2749.020	55.30	-6.10	49.20	54.00	-4.80	AVG			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ALEN #188

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Tablet PC

Mode: HDMI

Model: W70

Manufacturer: Eken

Polarization: Horizontal

Power Source: AC 120V/60Hz

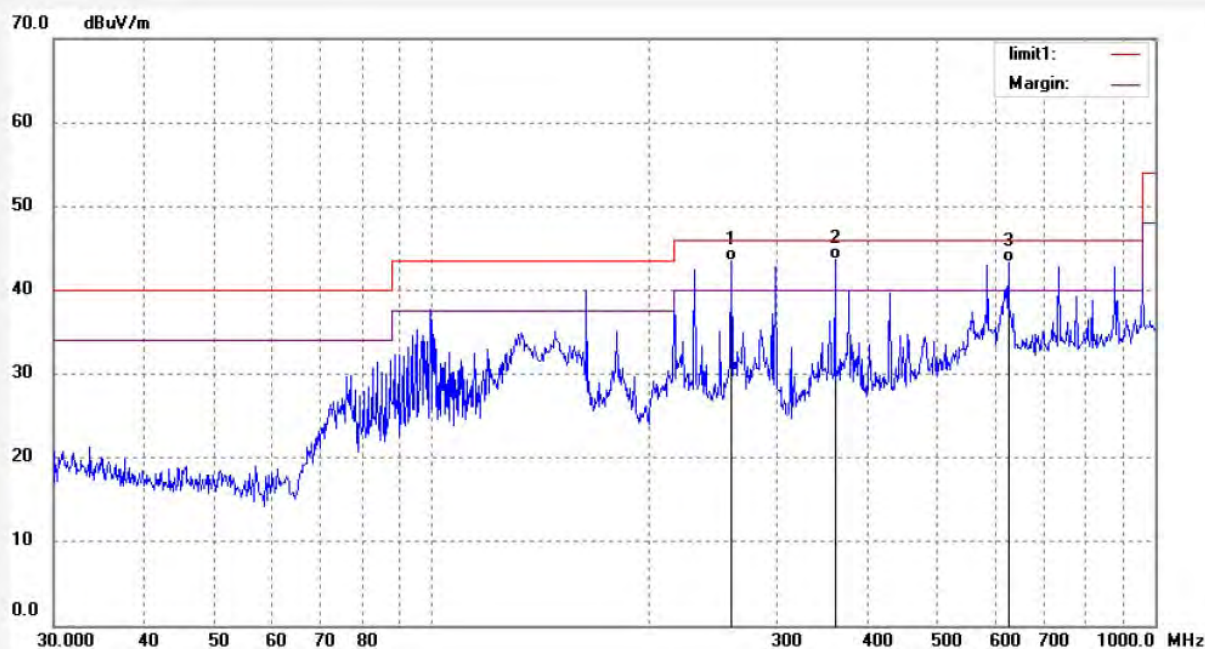
Date: 2012/09/05

Time: 0:05:28

Engineer Signature: alen

Distance: 3m

Note: Report No:ATE20121873



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	259.4433	25.03	18.52	43.55	46.00	-2.45	QP			
2	360.9775	22.46	21.29	43.75	46.00	-2.25	QP			
3	626.6878	17.19	26.06	43.25	46.00	-2.75	QP			



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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #189

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: Tablet PC

Mode: HDMI

Model: W70

Manufacturer: Eken

Polarization: Vertical

Power Source: AC 120V/60Hz

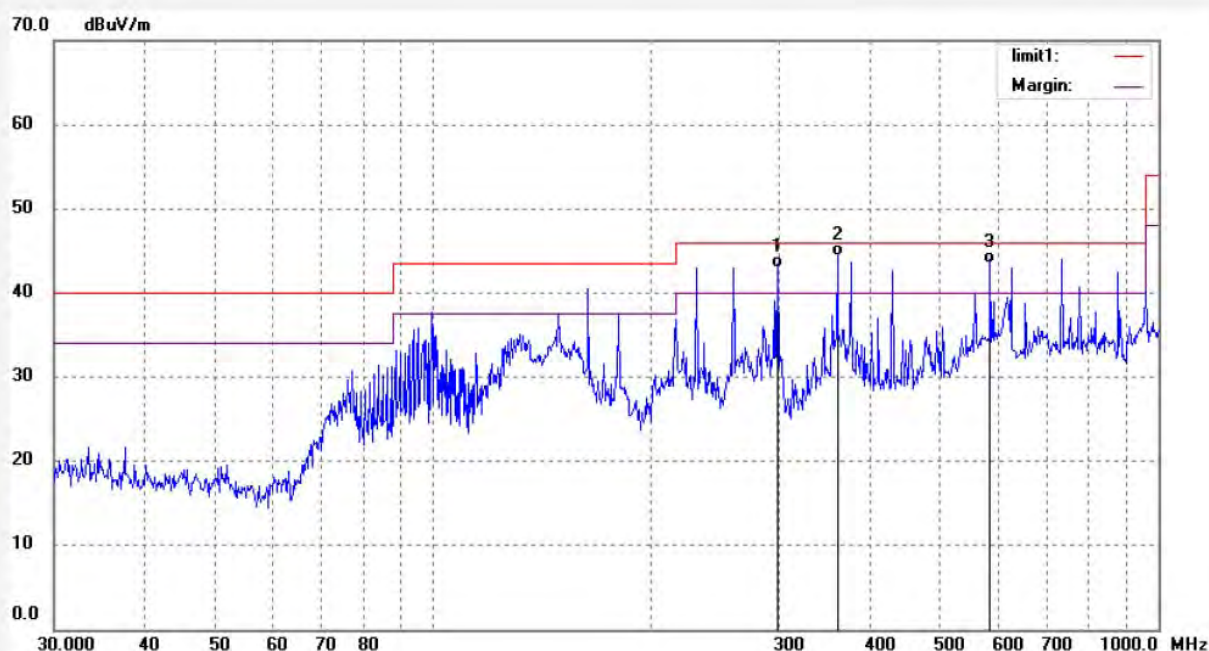
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Time: 0:06:03

Engineer Signature: alen

Distance: 3m

Note: Report No:ATE20121873



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	298.5932	24.36	18.64	43.00	46.00	-3.00	QP			
2	360.9775	23.01	21.29	44.30	46.00	-1.70	QP			
3	586.2172	18.04	25.42	43.46	46.00	-2.54	QP			



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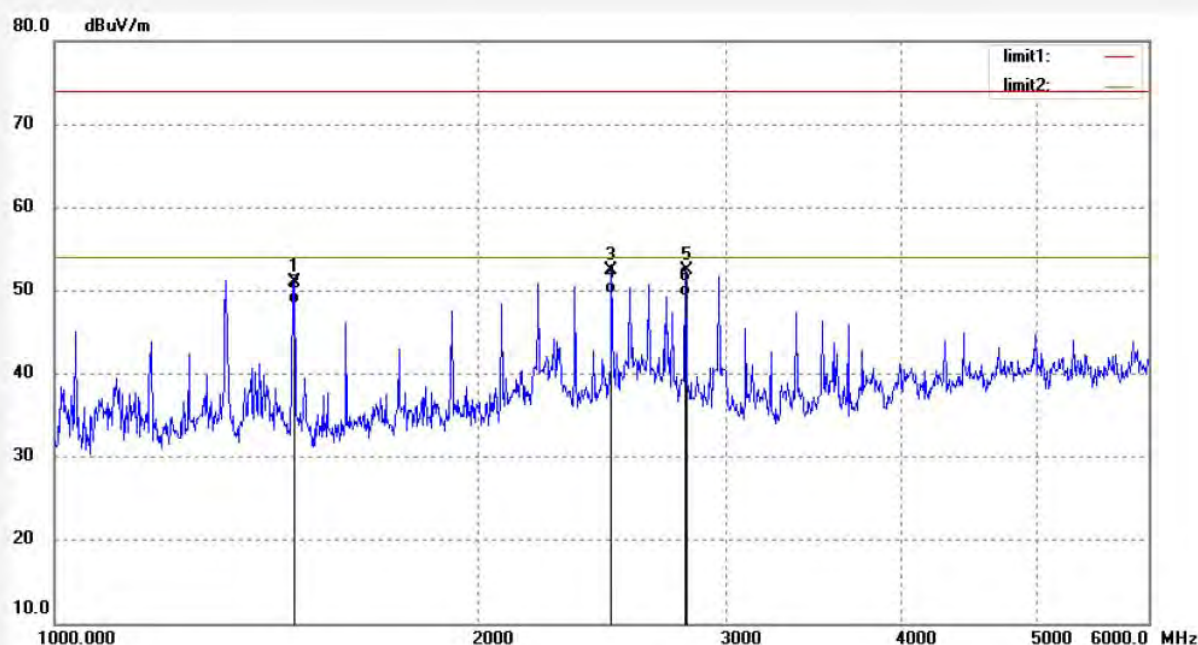
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #190
Standard: FCC PART 15B (PK)
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: HDMI
Model: W70
Manufacturer: Eken

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/09/05
Time: 0:09:44
Engineer Signature: alen
Distance: 3m

Note: Report No:ATE20121873



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1481.361	62.64	-11.54	51.10	74.00	-22.90	peak			
2	1481.361	60.00	-11.54	48.46	54.00	-5.54	AVG			
3	2489.552	59.80	-7.39	52.41	74.00	-21.59	peak			
4	2489.552	56.95	-7.39	49.56	54.00	-4.44	AVG			
5	2809.132	58.43	-6.03	52.40	74.00	-21.60	peak			
6	2809.132	55.31	-6.03	49.28	54.00	-4.72	AVG			



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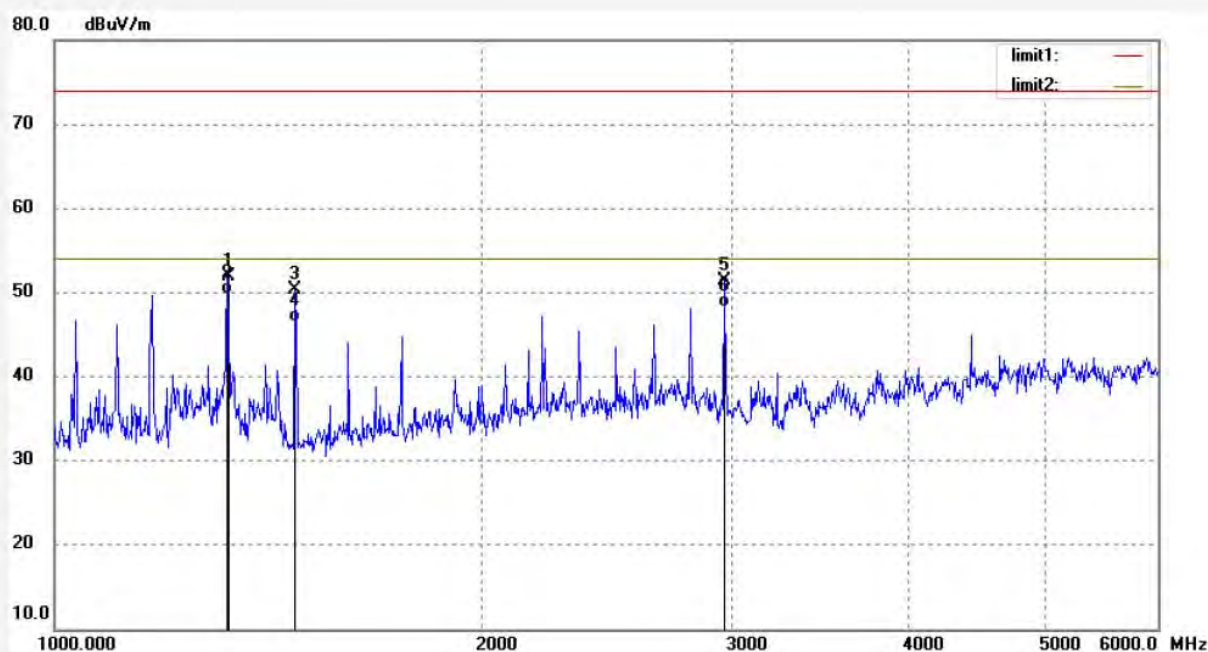
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: ALEN #191
Standard: FCC PART 15B (PK)
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: HDMI
Model: W70
Manufacturer: Eken

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/09/05
Time: 0:10:04
Engineer Signature: alen
Distance: 3m

Note: Report No:ATE20121873



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1324.721	64.14	-12.15	51.99	74.00	-22.01	peak			
2	1324.721	62.03	-12.15	49.88	54.00	-4.12	AVG			
3	1478.693	61.84	-11.54	50.30	74.00	-23.70	peak			
4	1478.693	58.07	-11.54	46.53	54.00	-7.47	AVG			
5	2970.574	56.76	-5.40	51.36	74.00	-22.64	peak			
6	2970.574	53.67	-5.40	48.27	54.00	-5.73	AVG			