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

Tablet PC
Model No.: B70

FCC ID: PVV-B70

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
Address	:	F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China
		Tel: (0755) 26503290 Fax: (0755) 26503396

Report Number	:	ATE20121872
Date of Test	:	August 14-September 6, 2012
Date of Report	:	September 7, 2012

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Description Page

Test Report Certification

Applicant **:** Eken (HK) Electronics Co., Ltd.

Manufacturer **:** Eken (HK) Electronics Co., Ltd.

EUT Description **:** Tablet PC

(A) MODEL NO.: B70

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: DC 3.7V (Li-polymer battery) & AC 120V/60Hz (Adapter input)

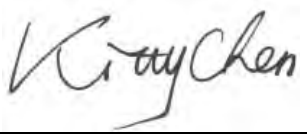
Measurement Procedure Used:

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 14-September 6, 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	:	B70
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 14, 2012
Date of Test	:	August 14-September 6, 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 (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

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	CBLU1183540-01	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

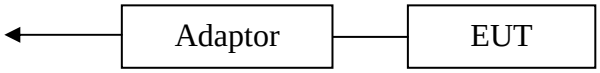
5. CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.107(A)

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

AC 120V/60Hz



(EUT: Tablet PC)

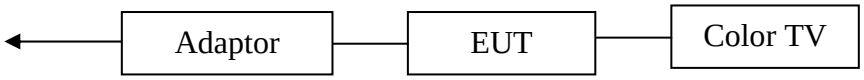
5.1.1.2.For Transfer data

AC 120V/60Hz

(EUT: Tablet PC)

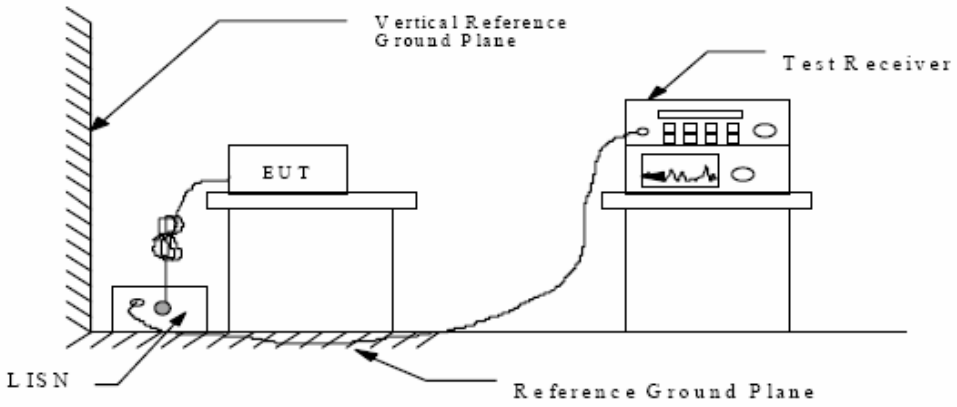
5.1.1.3.For HDMI

AC 120V/60Hz



(EUT: Tablet PC)

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 : B70
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 14, 2012	Temperature:	25°C
EUT:	Tablet PC	Humidity:	50%
Model No.:	B70	Power Supply:	AC 120V/60Hz
Test Mode:	Running	Test Engineer:	TOM

MEASUREMENT RESULT: "E-0814-02_fin"

8/14/2012 9:21AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.500809	46.90	12.0	56	9.1	QP	L1	GND
0.525384	42.20	12.0	56	13.8	QP	L1	GND
0.585177	44.60	12.0	56	11.4	QP	L1	GND

MEASUREMENT RESULT: "E-0814-02_fin2"

8/14/2012 9:21AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.397299	32.10	11.8	48	15.8	AV	L1	GND
0.494848	34.80	12.0	46	11.3	AV	L1	GND
0.594596	31.50	12.0	46	14.5	AV	L1	GND

MEASUREMENT RESULT: "E-0814-03_fin"

8/14/2012 9:24AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.496827	49.20	12.0	56	6.9	QP	N	GND
0.551165	46.10	12.0	56	9.9	QP	N	GND
3.092043	42.00	11.6	56	14.0	QP	N	GND

MEASUREMENT RESULT: "E-0814-03_fin2"

8/14/2012 9:24AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.394139	37.70	11.8	48	10.3	AV	N	GND
0.494848	40.20	12.0	46	5.9	AV	N	GND
0.592227	37.10	12.0	46	8.9	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:	August 31, 2012	Temperature:	25°C
EUT:	Tablet PC	Humidity:	50%
Model No.:	B70	Power Supply:	AC 120V/60Hz
Test Mode:	Transfer data	Test Engineer:	TOM

MEASUREMENT RESULT: "E-0831-03_fin"

8/31/2012 9:02AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195216	50.20	11.2	64	13.6	QP	L1	GND
0.519130	46.50	12.0	56	9.5	QP	L1	GND
0.585177	43.80	12.0	56	12.2	QP	L1	GND

MEASUREMENT RESULT: "E-0831-03_fin2"

8/31/2012 9:02AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.519130	44.80	12.0	46	1.2	AV	L1	GND
0.587518	41.50	12.0	46	4.5	AV	L1	GND
1.495236	41.00	11.7	46	5.0	AV	L1	GND

MEASUREMENT RESULT: "E-0831-02_fin"

8/31/2012 8:56AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.193664	51.00	11.2	64	12.9	QP	N	GND
0.519130	45.20	12.0	56	10.8	QP	N	GND
1.035639	41.40	11.8	56	14.6	QP	N	GND

MEASUREMENT RESULT: "E-0831-02_fin2"

8/31/2012 8:56AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.517062	44.80	12.0	46	1.2	AV	N	GND
0.975445	40.90	11.8	46	5.1	AV	N	GND
1.035639	39.60	11.8	46	6.4	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:	August 30, 2012	Temperature:	25°C
EUT:	Tablet PC	Humidity:	50%
Model No.:	B70	Power Supply:	AC 120V/60Hz
Test Mode:	HDMI	Test Engineer:	TOM

MEASUREMENT RESULT: "E-0830-02_fin"

8/30/2012 5:01PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.193664	52.40	11.2	64	11.5	QP	L1	GND
0.517062	45.20	12.0	56	10.8	QP	L1	GND
1.031513	41.50	11.8	56	14.5	QP	L1	GND

MEASUREMENT RESULT: "E-0830-02_fin2"

8/30/2012 5:01PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.517062	40.90	12.0	46	5.1	AV	L1	GND
0.711605	42.60	11.9	46	3.4	AV	L1	GND
1.031513	41.50	11.8	46	4.5	AV	L1	GND

MEASUREMENT RESULT: "E-0830-03_fin"

8/30/2012 5:04PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195216	49.60	11.2	64	14.2	QP	N	GND
0.582846	42.80	12.0	56	13.2	QP	N	GND
1.425297	42.00	11.7	56	14.0	QP	N	GND

MEASUREMENT RESULT: "E-0830-03_fin2"

8/30/2012 5:04PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.582846	42.40	12.0	46	3.6	AV	N	GND
1.099547	40.80	11.8	46	5.2	AV	N	GND
1.425297	41.70	11.7	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

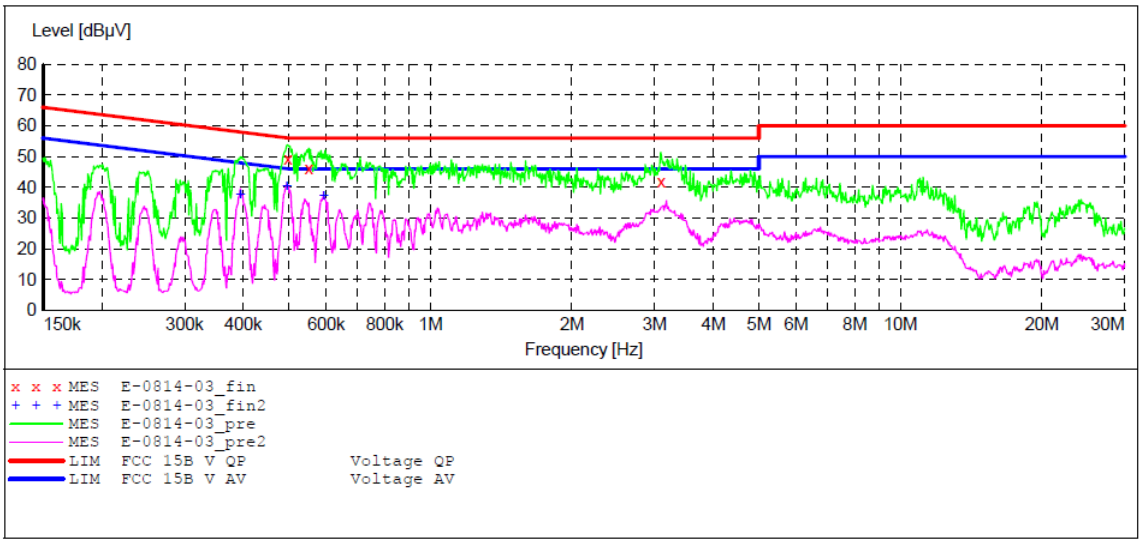
CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Tablet PC M/N:B70
Manufacturer: Eken
Operating Condition: RUNNING
Test Site: 1#Shielding Room
Operator: TOM
Test Specification: N 120V/60Hz
Comment: Report No.:ATE20121872
Start of Test: 8/14/2012 / 9:22:19AM

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 Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "E-0814-03_fin"

8/14/2012 9:24AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.496827	49.20	12.0	56	6.9	QP	N	GND
0.551165	46.10	12.0	56	9.9	QP	N	GND
3.092043	42.00	11.6	56	14.0	QP	N	GND

MEASUREMENT RESULT: "E-0814-03_fin2"

8/14/2012 9:24AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.394139	37.70	11.8	48	10.3	AV	N	GND
0.494848	40.20	12.0	46	5.9	AV	N	GND
0.592227	37.10	12.0	46	8.9	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

```
EUT:                  Tablet PC  M/N:B70
Manufacturer:         Eken
Operating Condition:  RUNNING
Test Site:            1#Shielding Room
Operator:             TOM
Test Specification:   L  120V/60Hz
Comment:              Report No.:ATE20121872
Start of Test:        8/14/2012 / 9:19:04AM
```

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
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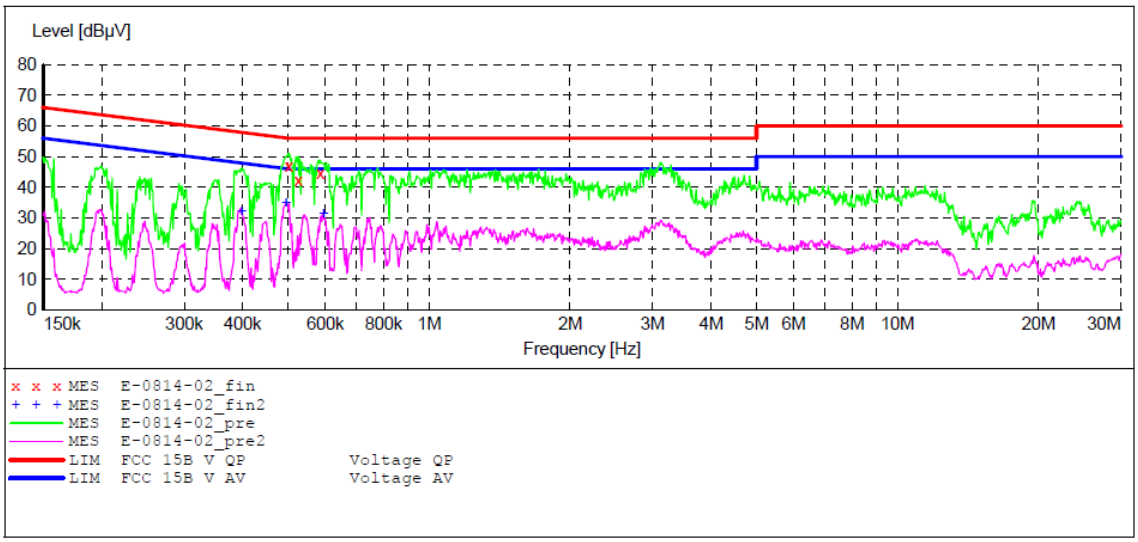


MEASUREMENT RESULT: "E-0814-02_fin"

8/14/2012 9:21AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.500809	46.90	12.0	56	9.1	QP	L1	GND
0.525384	42.20	12.0	56	13.8	QP	L1	GND
0.585177	44.60	12.0	56	11.4	QP	L1	GND

MEASUREMENT RESULT: "E-0814-02_fin2"

8/14/2012 9:21AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.397299	32.10	11.8	48	15.8	AV	L1	GND
0.494848	34.80	12.0	46	11.3	AV	L1	GND
0.594596	31.50	12.0	46	14.5	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD

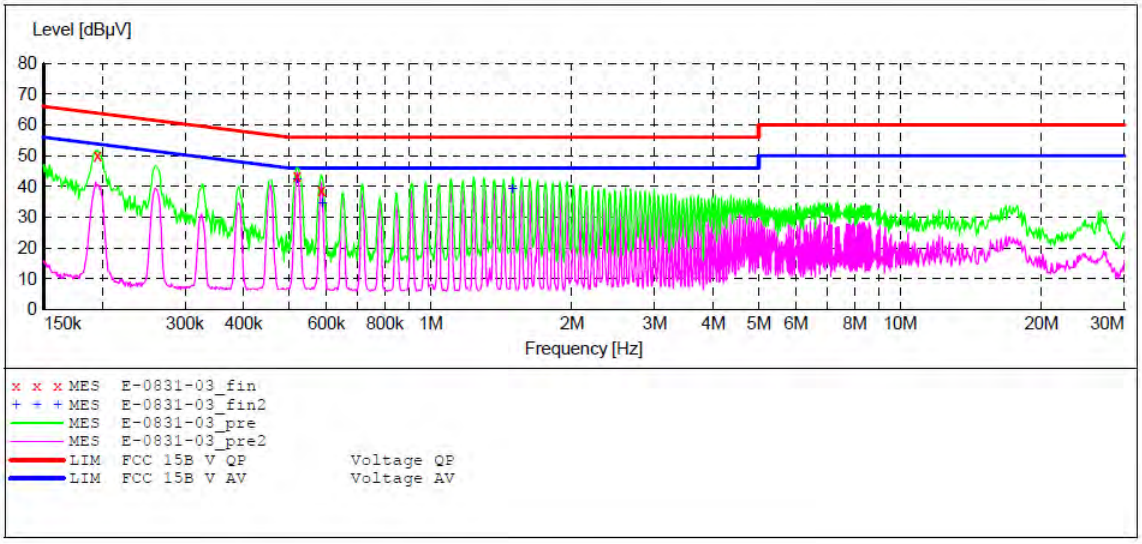
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Tablet PC M/N:B70
Manufacturer: Eken
Operating Condition: TRANSFER DATA
Test Site: 1#Shielding Room
Operator: TOM
Test Specification: L 120V/60Hz
Comment: Report No.:ATE20121872
Start of Test: 8/31/2012 / 8:57:59AM

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 Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "E-0831-03_fin"

8/31/2012 9:02AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195216	50.20	11.2	64	13.6	QP	L1	GND
0.519130	46.50	12.0	56	9.5	QP	L1	GND
0.585177	43.80	12.0	56	12.2	QP	L1	GND

MEASUREMENT RESULT: "E-0831-03_fin2"

8/31/2012 9:02AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.519130	44.80	12.0	46	1.2	AV	L1	GND
0.587518	41.50	12.0	46	4.5	AV	L1	GND
1.495236	41.00	11.7	46	5.0	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD

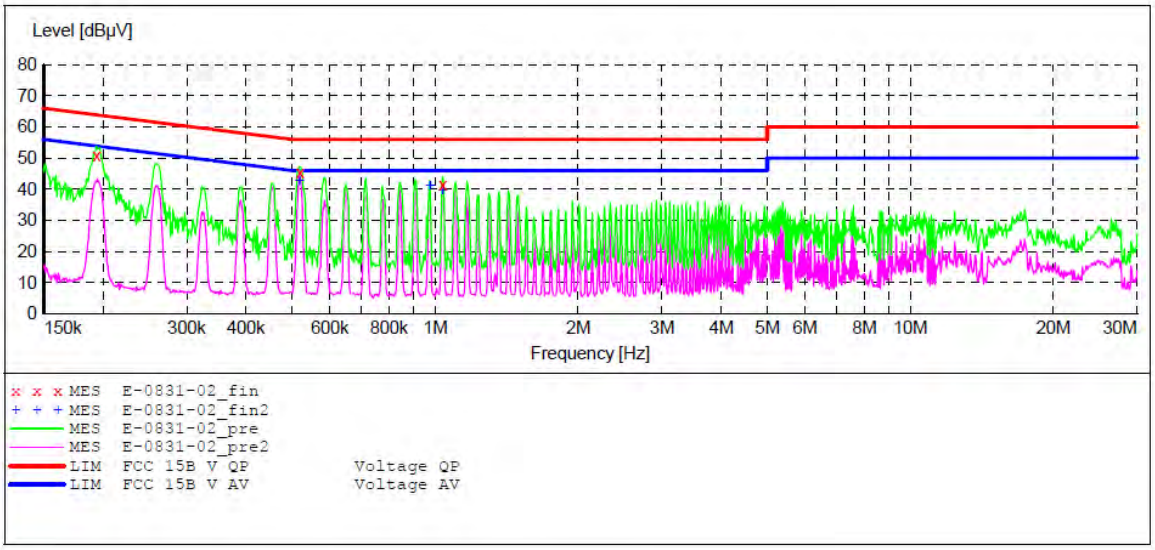
CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Tablet PC  M/N:B70
Manufacturer:         Eken
Operating Condition:  TRANSFER DATA
Test Site:            1#Shielding Room
Operator:             TOM
Test Specification:   N 120V/60Hz
Comment:              Report No.:ATE20121872
Start of Test:        8/31/2012 / 8:54:12AM
```

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 Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "E-0831-02_fin"

8/31/2012 8:56AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.193664	51.00	11.2	64	12.9	QP	N	GND
0.519130	45.20	12.0	56	10.8	QP	N	GND
1.035639	41.40	11.8	56	14.6	QP	N	GND

MEASUREMENT RESULT: "E-0831-02_fin2"

8/31/2012 8:56AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.517062	44.80	12.0	46	1.2	AV	N	GND
0.975445	40.90	11.8	46	5.1	AV	N	GND
1.035639	39.60	11.8	46	6.4	AV	N	GND

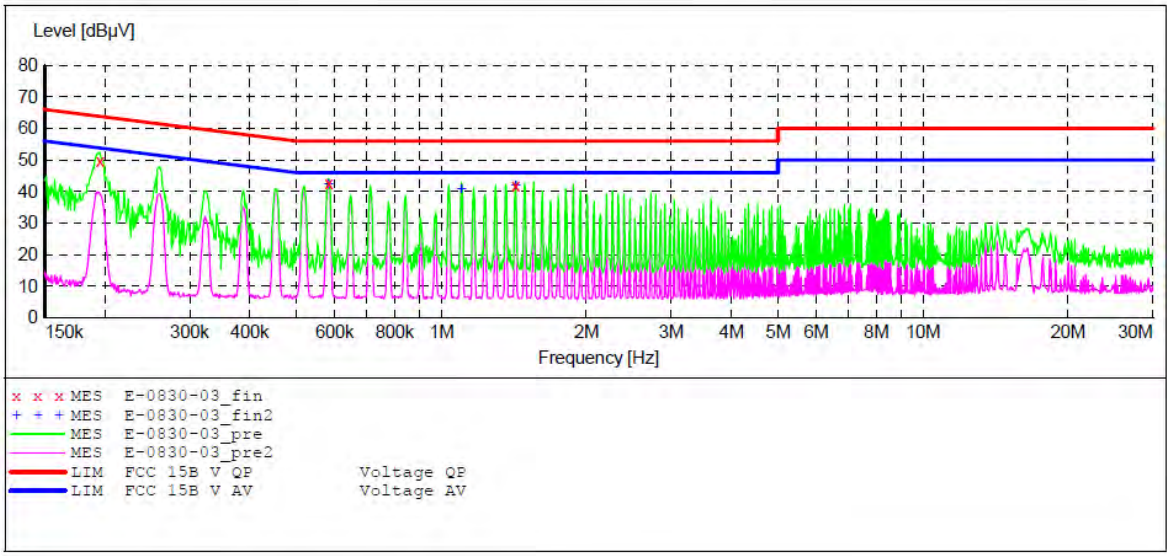
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Tablet PC  M/N:B70
Manufacturer:         Eken
Operating Condition:  HDMI
Test Site:            1#Shielding Room
Operator:             TOM
Test Specification:   N 120V/60Hz
Comment:              Report No.:ATE20121872
Start of Test:        8/30/2012 / 5:02:11PM
```

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: "E-0830-03_fin"

8/30/2012 5:04PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195216	49.60	11.2	64	14.2	QP	N	GND
0.582846	42.80	12.0	56	13.2	QP	N	GND
1.425297	42.00	11.7	56	14.0	QP	N	GND

MEASUREMENT RESULT: "E-0830-03_fin2"

8/30/2012 5:04PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.582846	42.40	12.0	46	3.6	AV	N	GND
1.099547	40.80	11.8	46	5.2	AV	N	GND
1.425297	41.70	11.7	46	4.3	AV	N	GND

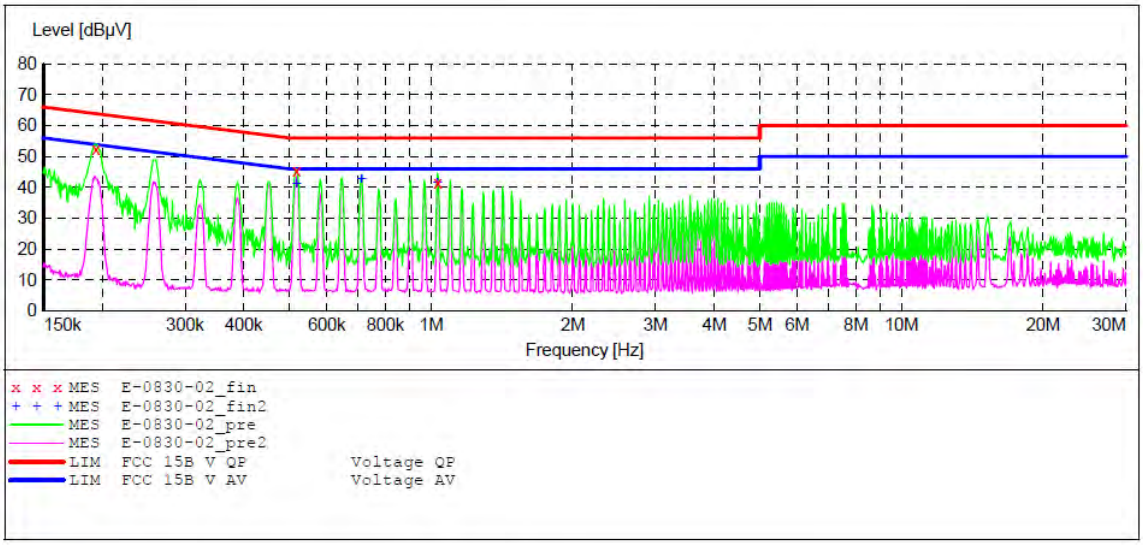
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:                  Tablet PC  M/N:B70
Manufacturer:         Eken
Operating Condition:  HDMI
Test Site:            1#Shielding Room
Operator:             TOM
Test Specification:   L 120V/60Hz
Comment:              Report No.:ATE20121872
Start of Test:        8/30/2012 / 4:59:07PM
```

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: "E-0830-02_fin"

8/30/2012 5:01PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.193664	52.40	11.2	64	11.5	QP	L1	GND
0.517062	45.20	12.0	56	10.8	QP	L1	GND
1.031513	41.50	11.8	56	14.5	QP	L1	GND

MEASUREMENT RESULT: "E-0830-02_fin2"

8/30/2012 5:01PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.517062	40.90	12.0	46	5.1	AV	L1	GND
0.711605	42.60	11.9	46	3.4	AV	L1	GND
1.031513	41.50	11.8	46	4.5	AV	L1	GND

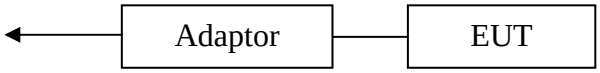
6. RADIATED EMISSION FOR FCC PART 15 SECTION 15.109(A)

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

AC 120V/60Hz



(EUT: Tablet PC)

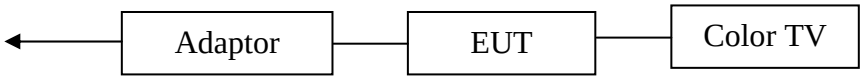
6.1.1.2.For Transfer data

AC 120V/60Hz

(EUT: Tablet PC)

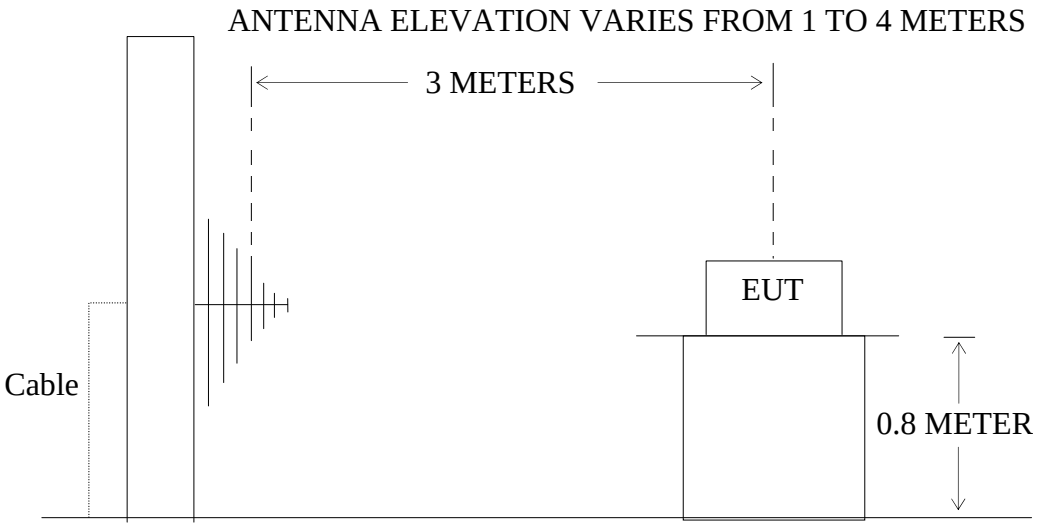
6.1.1.3.For HDMI

AC 120V/60Hz



(EUT: Tablet PC)

6.1.2.Semi-Anechoic Chamber Test Setup Diagram



GROUND PLANE

(EUT: Tablet PC)

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 : B70
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 5-6, 2012	Temperature:	25°C
EUT:	Tablet PC	Humidity:	50%
Model No.:	B70	Power Supply:	AC 120V/60Hz
Test Mode:	Running	Test Engineer:	TOM

Frequency: 30-1000MHz

Polarization

Horizontal

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	162.0197	26.85	12.12	38.97	43.50	-4.53	QP
2	195.8701	26.46	14.02	40.48	43.50	-3.02	QP
3	294.4259	23.68	18.60	42.28	46.00	-3.72	QP

Vertical

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	130.3048	27.00	12.89	39.89	43.50	-3.61	QP
2	162.0197	27.02	12.12	39.14	43.50	-4.36	QP
3	195.8701	25.32	14.02	39.34	43.50	-4.16	QP

Frequency: 1000-6000MHz

Polarization

Horizontal

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1068.970	48.39	-12.66	35.73	74.00	-38.27	peak
2	1068.970	44.39	-12.66	31.73	54.00	-22.27	AVG
3	1773.968	47.48	-10.25	37.23	74.00	-36.77	peak
4	1773.968	44.48	-10.25	34.23	54.00	-19.77	AVG
5	3315.844	41.07	-4.22	36.85	74.00	-37.15	peak
6	3315.844	37.07	-4.22	32.85	54.00	-21.15	AVG

Vertical

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1773.968	45.68	-10.25	35.43	74.00	-38.57	peak
2	1773.968	40.68	-10.25	30.43	54.00	-23.57	AVG
3	3315.844	41.85	-4.22	37.63	74.00	-36.37	peak
4	3315.844	37.85	-4.22	33.63	54.00	-20.37	AVG
5	4780.930	42.28	-0.43	41.85	74.00	-32.15	peak
6	4780.930	39.28	-0.43	38.85	54.00	-15.15	AVG

Date of Test:	September 5-6, 2012	Temperature:	25°C
EUT:	Tablet PC	Humidity:	50%
Model No.:	B70	Power Supply:	AC 120V/60Hz
Test Mode:	Transfer data	Test Engineer:	TOM

Frequency: 30-1000MHz

Polarization

Horizontal

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	354.6911	13.63	21.09	34.72	46.00	-11.28	QP
2	478.1394	19.01	23.81	42.82	46.00	-3.18	QP
3	723.7930	9.26	27.29	36.55	46.00	-9.45	QP

Vertical

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	144.2820	21.42	11.48	32.90	43.50	-10.60	QP
2	478.1394	17.75	23.81	41.56	46.00	-4.44	QP
3	582.1122	12.05	25.44	37.49	46.00	-8.51	QP

Frequency: 1000-6000MHz

Polarization

Horizontal

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1439.247	62.35	-11.64	50.71	74.00	-23.29	peak
2	1439.247	59.35	-11.64	47.71	54.00	-6.29	AVG
3	2124.372	45.22	-8.48	36.74	74.00	-37.26	peak
4	2124.372	42.22	-8.48	33.74	54.00	-20.26	AVG
5	3315.844	42.78	-4.22	38.56	74.00	-35.44	peak
6	3315.844	38.78	-4.22	34.56	54.00	-19.44	AVG

Vertical

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1439.247	64.62	-11.64	52.98	74.00	-21.02	peak
2	1439.247	60.00	-11.64	48.36	54.00	-5.64	AVG
3	1980.157	52.93	-9.12	43.81	74.00	-30.19	peak
4	1980.157	49.93	-9.12	40.81	54.00	-13.19	AVG
5	3315.844	40.20	-4.22	35.98	74.00	-38.02	peak
6	3315.844	37.20	-4.22	32.98	54.00	-21.02	AVG

Date of Test:	September 5-6, 2012	Temperature:	25°C
EUT:	Tablet PC	Humidity:	50%
Model No.:	B70	Power Supply:	AC 120V/60Hz
Test Mode:	HDMI	Test Engineer:	TOM

Frequency: 30-1000MHz

Polarization

Horizontal

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	162.0197	28.43	12.12	40.55	43.50	-2.95	QP
2	195.8701	26.88	14.02	40.90	43.50	-2.60	QP
3	294.4259	25.35	18.60	43.95	46.00	-2.05	QP

Vertical

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	98.7215	27.70	14.01	41.71	43.50	-1.79	QP
2	162.0197	28.52	12.12	40.64	43.50	-2.86	QP
3	734.0372	15.92	27.43	43.35	46.00	-2.65	QP

Frequency: 1000-6000MHz

Polarization

Horizontal

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1068.970	53.01	-12.66	40.35	74.00	-33.65	peak
2	1068.970	50.01	-12.66	37.35	54.00	-16.65	AVG
3	1322.335	47.54	-12.16	35.38	74.00	-38.62	peak
4	1322.335	43.54	-12.16	31.38	54.00	-22.62	AVG
5	2341.555	46.13	-7.80	38.33	74.00	-35.67	peak
6	2341.555	42.13	-7.80	34.33	54.00	-19.67	AVG

Vertical

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1068.970	56.27	-12.66	43.61	74.00	-30.39	peak
2	1068.970	52.27	-12.66	39.61	54.00	-14.39	AVG
3	2206.330	51.19	-8.17	43.02	74.00	-30.98	peak
4	2206.330	48.19	-8.17	40.02	54.00	-13.98	AVG
5	3977.973	41.50	-1.70	39.80	74.00	-34.20	peak
6	3977.973	37.50	-1.70	35.80	54.00	-18.20	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

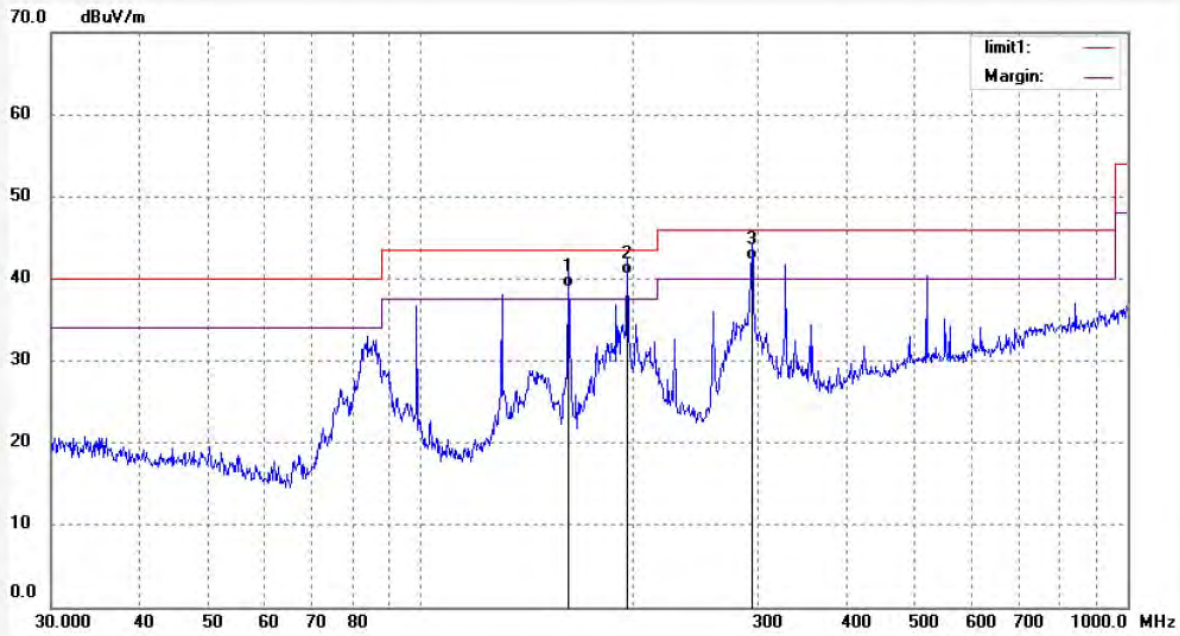
3. The spectral diagrams are attached as below display the measurement of peak values.

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.: TOM #470
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: RUNNING
Model: B70
Manufacturer: Eken

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/09/05
Time: 23:41:45
Engineer Signature: TOM
Distance: 3m

Note: Report No.:ATE20121872



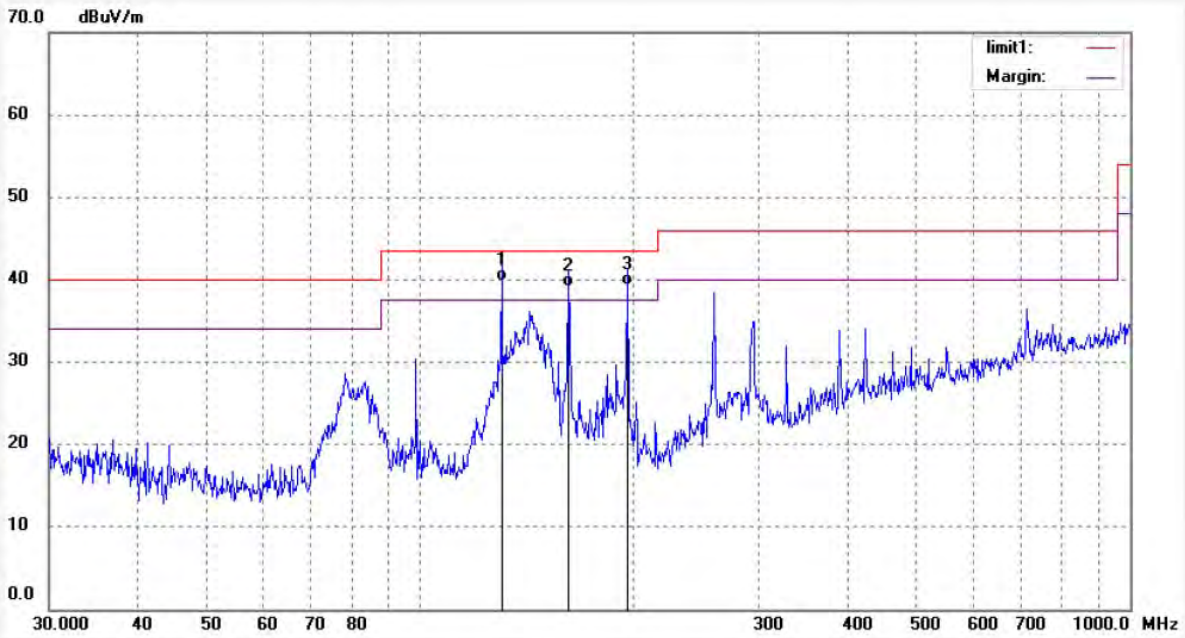
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	162.0197	26.85	12.12	38.97	43.50	-4.53	QP			
2	195.8701	26.46	14.02	40.48	43.50	-3.02	QP			
3	294.4259	23.68	18.60	42.28	46.00	-3.72	QP			

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.: TOM #471
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: RUNNING
Model: B70
Manufacturer: Eken

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/09/05
Time: 23:42:01
Engineer Signature: TOM
Distance: 3m

Note: Report No.:ATE20121872



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	130.3048	27.00	12.89	39.89	43.50	-3.61	QP			
2	162.0197	27.02	12.12	39.14	43.50	-4.36	QP			
3	195.8701	25.32	14.02	39.34	43.50	-4.16	QP			

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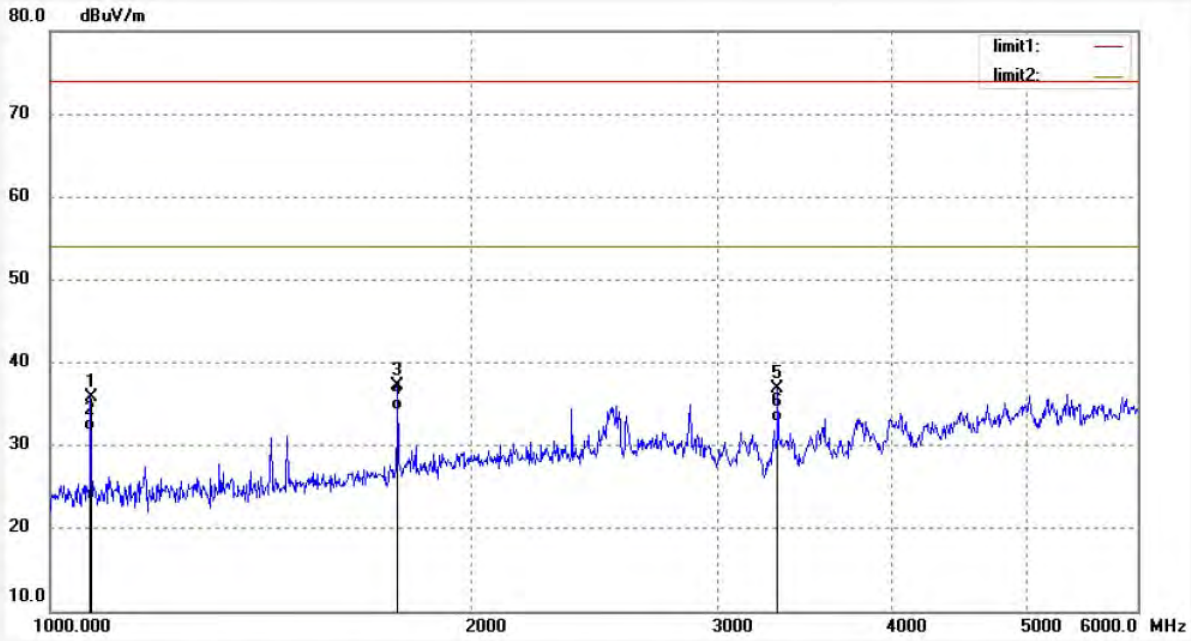
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: TOM #480
Standard: FCC PART 15B (PK)
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: RUNNING
Model: B70
Manufacturer: Eken

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/09/06
Time: 0:09:10
Engineer Signature: TOM
Distance: 3m

Note: Report No.:ATE20121872



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1068.970	48.39	-12.66	35.73	74.00	-38.27	peak			
2	1068.970	44.39	-12.66	31.73	54.00	-22.27	AVG			
3	1773.968	47.48	-10.25	37.23	74.00	-36.77	peak			
4	1773.968	44.48	-10.25	34.23	54.00	-19.77	AVG			
5	3315.844	41.07	-4.22	36.85	74.00	-37.15	peak			
6	3315.844	37.07	-4.22	32.85	54.00	-21.15	AVG			

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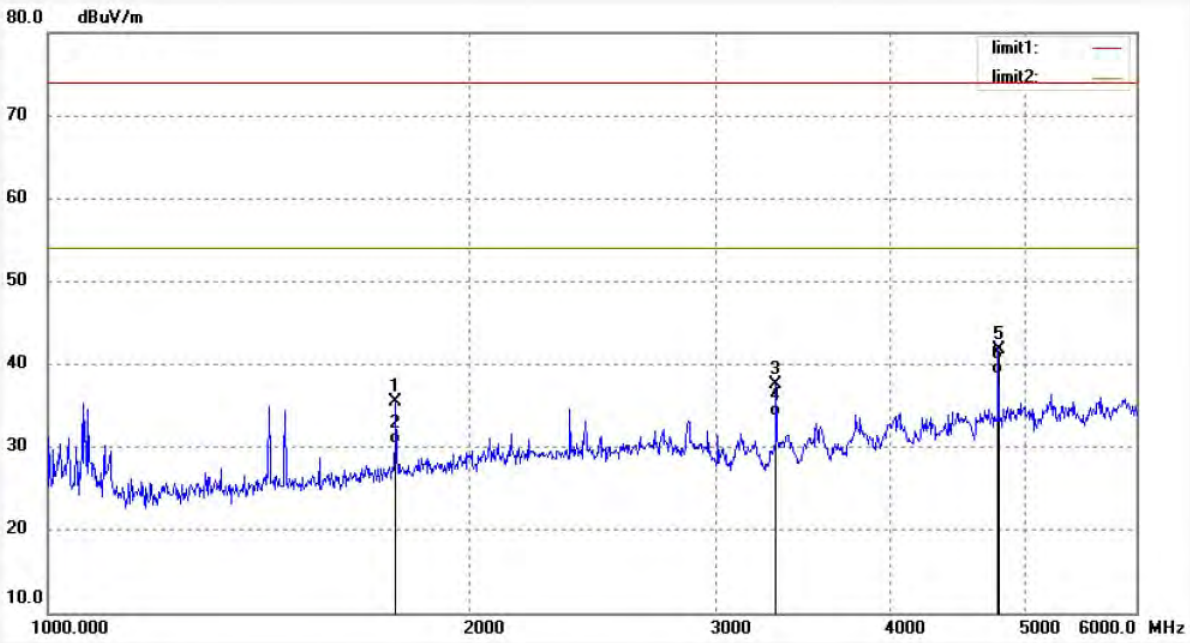
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: TOM #481
Standard: FCC PART 15B (PK)
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: RUNNING
Model: B70
Manufacturer: Eken

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/09/06
Time: 0:11:21
Engineer Signature: TOM
Distance: 3m

Note: Report No.:ATE20121872

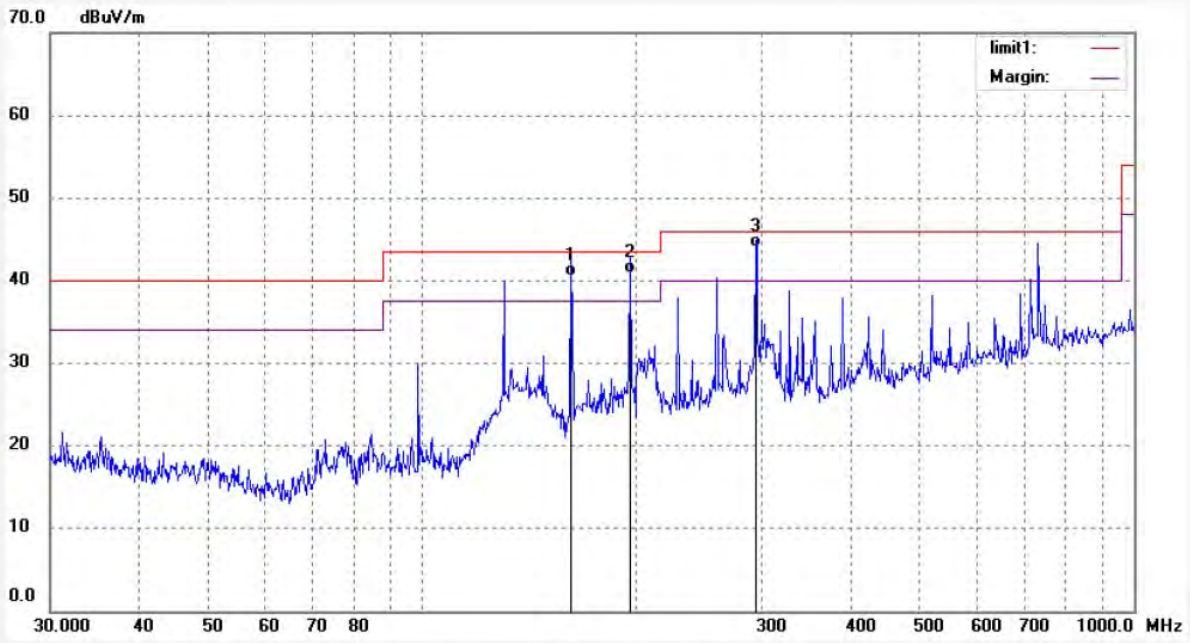


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1773.968	45.68	-10.25	35.43	74.00	-38.57	peak			
2	1773.968	40.68	-10.25	30.43	54.00	-23.57	AVG			
3	3315.844	41.85	-4.22	37.63	74.00	-36.37	peak			
4	3315.844	37.85	-4.22	33.63	54.00	-20.37	AVG			
5	4780.930	42.28	-0.43	41.85	74.00	-32.15	peak			
6	4780.930	39.28	-0.43	38.85	54.00	-15.15	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.: TOM #472	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/09/05
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 23:46:05
EUT: Tablet PC	Engineer Signature: TOM
Mode: HDMI	Distance: 3m
Model: B70	
Manufacturer: Eken	

Note: Report No.:ATE20121872



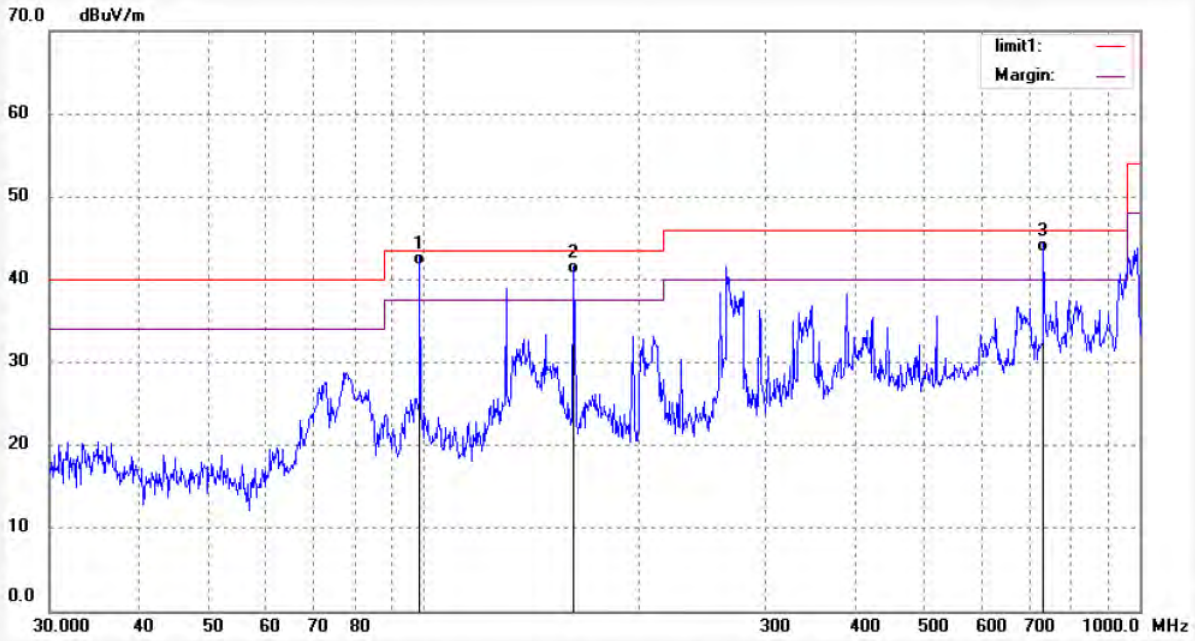
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	162.0197	28.43	12.12	40.55	43.50	-2.95	QP			
2	195.8701	26.88	14.02	40.90	43.50	-2.60	QP			
3	294.4259	25.35	18.60	43.95	46.00	-2.05	QP			

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.: TOM #473
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: HDMI
Model: B70
Manufacturer: Eken

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/09/05
Time: 23:46:23
Engineer Signature: TOM
Distance: 3m

Note: Report No.:ATE20121872



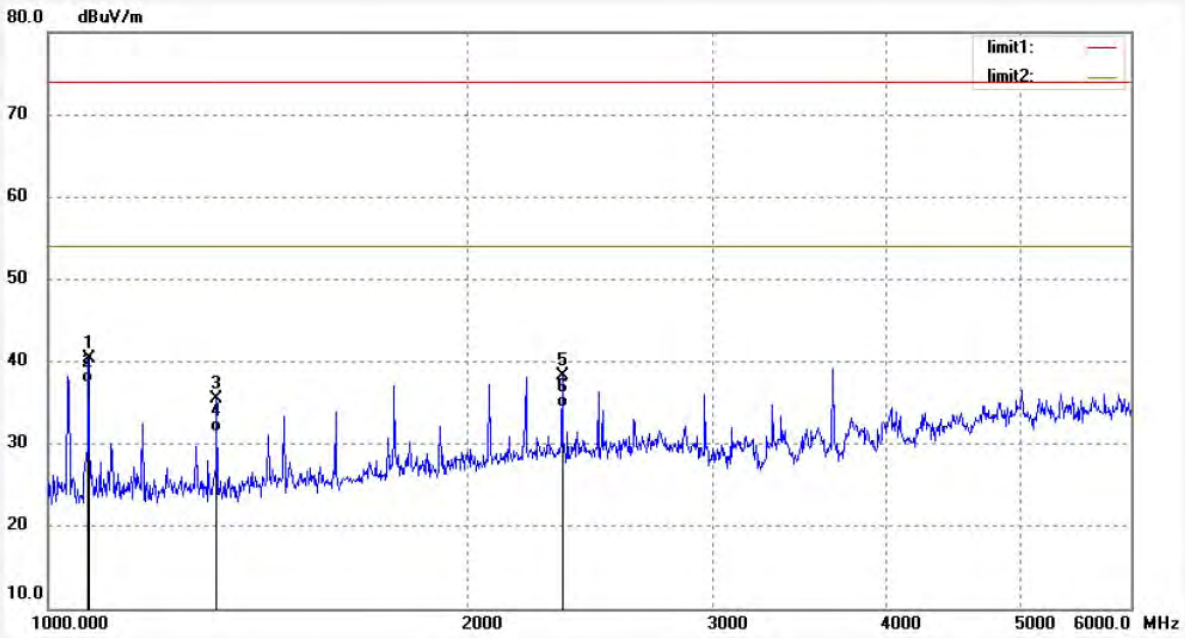
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.7215	27.70	14.01	41.71	43.50	-1.79	QP			
2	162.0197	28.52	12.12	40.64	43.50	-2.86	QP			
3	734.0372	15.92	27.43	43.35	46.00	-2.65	QP			

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.: TOM #478
Standard: FCC PART 15B (PK)
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: HDMI
Model: B70
Manufacturer: Eken

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/09/06
Time: 0:04:52
Engineer Signature: TOM
Distance: 3m

Note: Report No.:ATE20121872



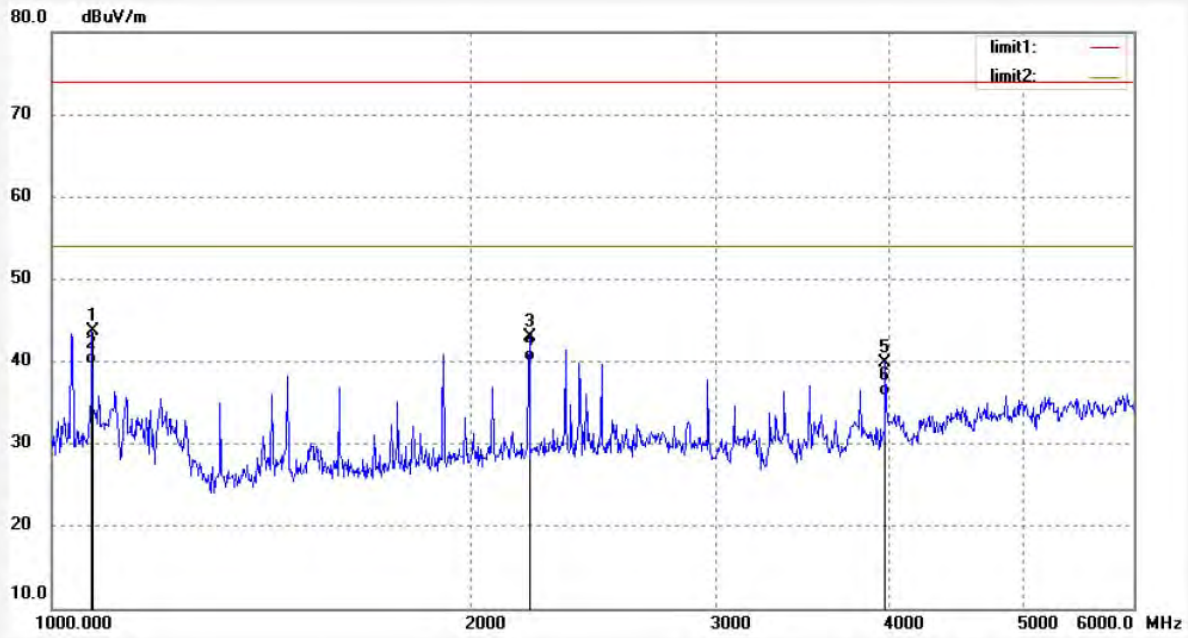
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1068.970	53.01	-12.66	40.35	74.00	-33.65	peak			
2	1068.970	50.01	-12.66	37.35	54.00	-16.65	AVG			
3	1322.335	47.54	-12.16	35.38	74.00	-38.62	peak			
4	1322.335	43.54	-12.16	31.38	54.00	-22.62	AVG			
5	2341.555	46.13	-7.80	38.33	74.00	-35.67	peak			
6	2341.555	42.13	-7.80	34.33	54.00	-19.67	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.: TOM #479
Standard: FCC PART 15B (PK)
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: HDMI
Model: B70
Manufacturer: Eken

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/09/06
Time: 0:06:45
Engineer Signature: TOM
Distance: 3m

Note: Report No.:ATE20121872



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1068.970	56.27	-12.66	43.61	74.00	-30.39	peak			
2	1068.970	52.27	-12.66	39.61	54.00	-14.39	AVG			
3	2206.330	51.19	-8.17	43.02	74.00	-30.98	peak			
4	2206.330	48.19	-8.17	40.02	54.00	-13.98	AVG			
5	3977.973	41.50	-1.70	39.80	74.00	-34.20	peak			
6	3977.973	37.50	-1.70	35.80	54.00	-18.20	AVG			

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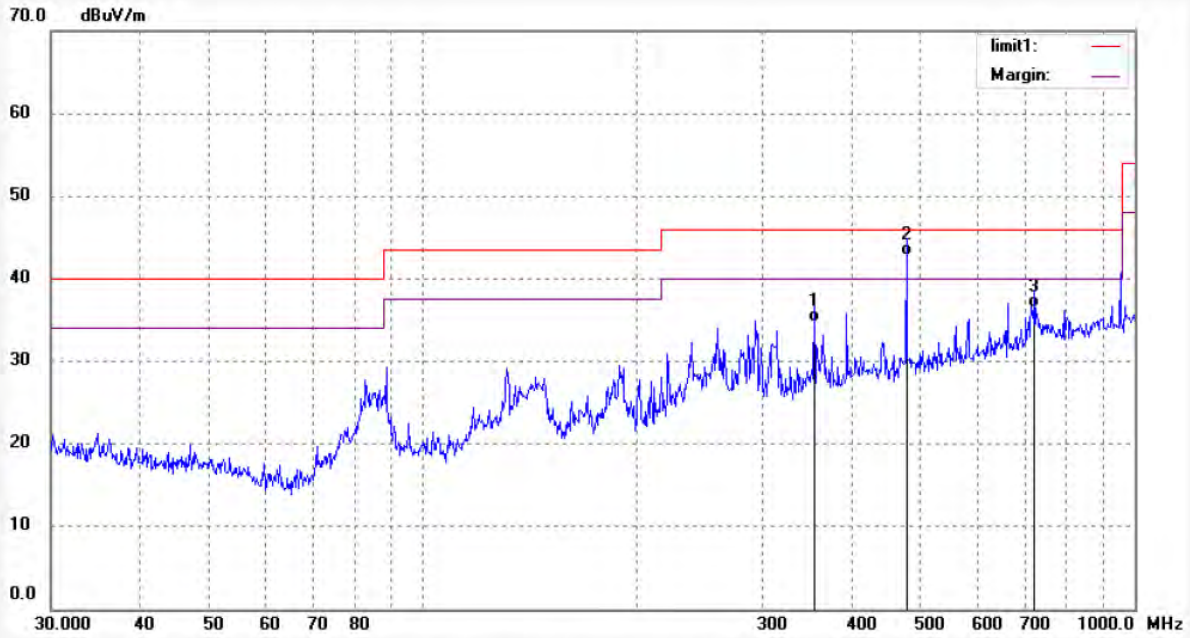
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: TOM #474
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: TRANSFER DATA
Model: B70
Manufacturer: Eken

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/09/05
Time: 23:51:34
Engineer Signature: TOM
Distance: 3m

Note: Report No.:ATE20121872



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	354.6911	13.63	21.09	34.72	46.00	-11.28	QP			
2	478.1394	19.01	23.81	42.82	46.00	-3.18	QP			
3	723.7930	9.26	27.29	36.55	46.00	-9.45	QP			

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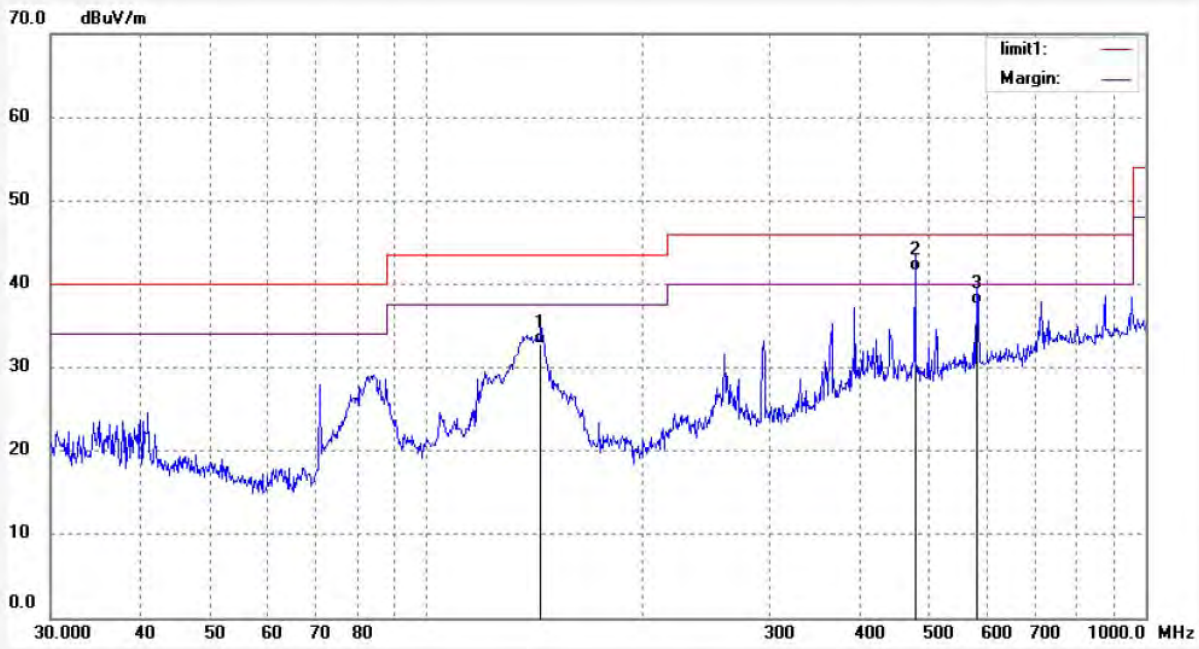
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: TOM #475	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/09/05
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 23:52:40
EUT: Tablet PC	Engineer Signature: TOM
Mode: TRANSFER DATA	Distance: 3m
Model: B70	
Manufacturer: Eken	

Note: Report No.:ATE20121872



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	144.2820	21.42	11.48	32.90	43.50	-10.60	QP			
2	478.1394	17.75	23.81	41.56	46.00	-4.44	QP			
3	582.1122	12.05	25.44	37.49	46.00	-8.51	QP			

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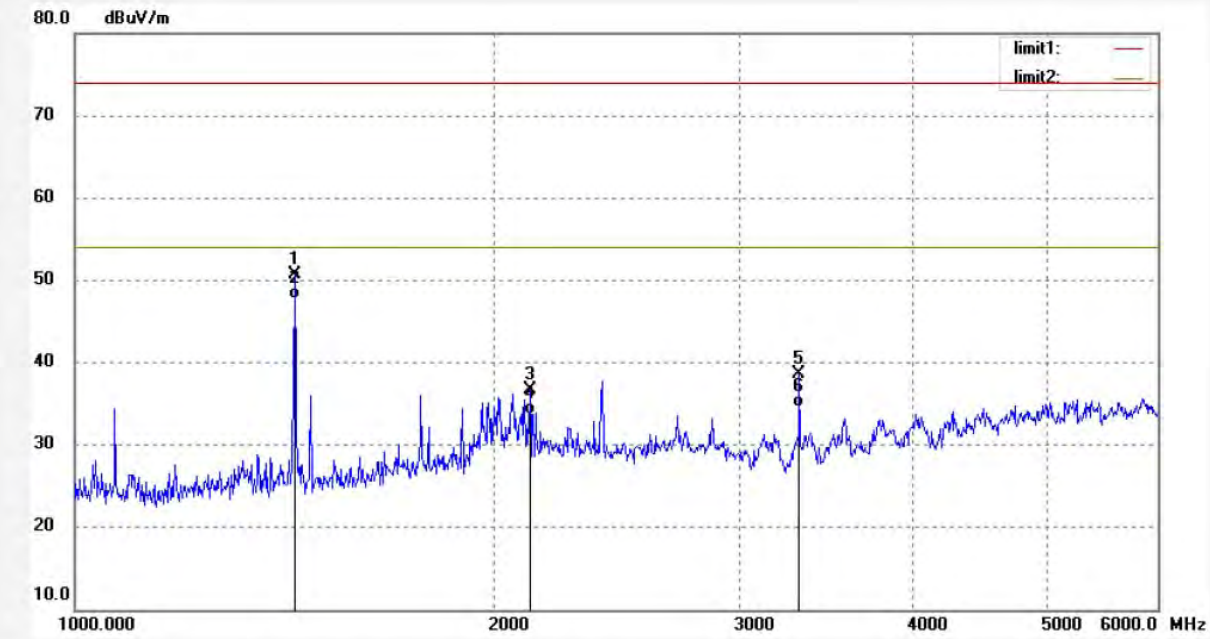
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: TOM #476
Standard: FCC PART 15B (PK)
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: TRANSFER DATA
Model: B70
Manufacturer: Eken

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2012/09/05
Time: 23:59:00
Engineer Signature: TOM
Distance: 3m

Note: Report No.:ATE20121872



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1439.247	62.35	-11.64	50.71	74.00	-23.29	peak			
2	1439.247	59.35	-11.64	47.71	54.00	-6.29	AVG			
3	2124.372	45.22	-8.48	36.74	74.00	-37.26	peak			
4	2124.372	42.22	-8.48	33.74	54.00	-20.26	AVG			
5	3315.844	42.78	-4.22	38.56	74.00	-35.44	peak			
6	3315.844	38.78	-4.22	34.56	54.00	-19.44	AVG			

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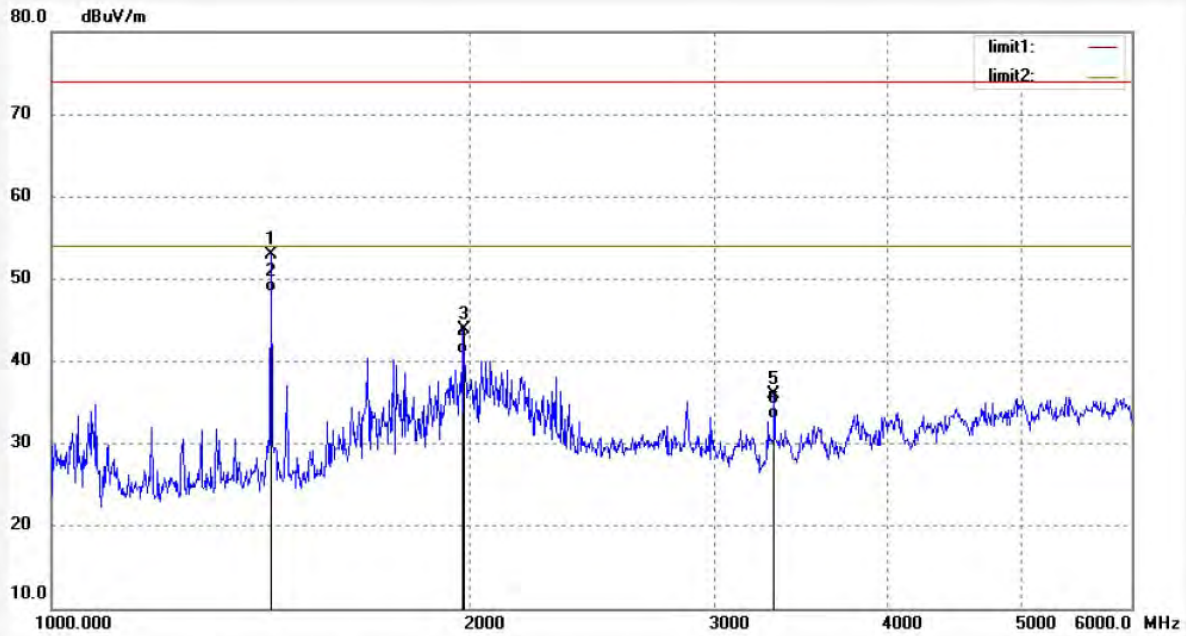
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: TOM #477
Standard: FCC PART 15B (PK)
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: Tablet PC
Mode: TRANSFER DATA
Model: B70
Manufacturer: Eken

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2012/09/06
Time: 0:01:02
Engineer Signature: TOM
Distance: 3m

Note: Report No.:ATE20121872



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1439.247	64.62	-11.64	52.98	74.00	-21.02	peak			
2	1439.247	60.00	-11.64	48.36	54.00	-5.64	AVG			
3	1980.157	52.93	-9.12	43.81	74.00	-30.19	peak			
4	1980.157	49.93	-9.12	40.81	54.00	-13.19	AVG			
5	3315.844	40.20	-4.22	35.98	74.00	-38.02	peak			
6	3315.844	37.20	-4.22	32.98	54.00	-21.02	AVG			