# APPLICATION CERTIFICATION FCC Part 15B On Behalf of Hongkong Parkly Technology Limited

Tablet PC Model No.: ROCAT-7002, ROCAT-7001, ROCAT-8001, ROCAT-8002

FCC ID: W2P-ROCAT-7002

Prepared for : Hongkong Parkly Technology Limited

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Report Number : ATE20110564-2
Date of Test : May 13-14, 2011
Date of Report : May 18, 2011

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### **Test Report Certification**

Applicant : Hongkong Parkly Technology Limited

Manufacturer : Shen zhen zhi lu ling Technology Co., Ltd.

EUT Description : Tablet PC

(A) MODEL NO.: ROCAT-7002, ROCAT-7001, ROCAT-8001, ROCAT-8002

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: DC 7.4V (Li-polymer battery); DC 5V (USB terminal); AC 120V/60Hz (Adaptor input)

Measurement Procedure Used:

## FCC Rules and Regulations Part 15 Subpart B ANSI C63.4: 2003

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:	May 13-14, 2011
Prepared by :	Kivy
	(Engineer)
Approved & Authorized Signer:	Lemb
	(Manager)

### 1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT : Tablet PC

Model Number : ROCAT-7002, ROCAT-7001, ROCAT-8001,

ROCAT-8002

(Note: These models are identical in interior structure, electrical circuits and components except for the appearance. So we prepare ROCAT-7002 for test

only.)

Frequency Band : 2412-2462MHz

Number of Channels : 11

Antenna Gain : 0dBi

Power Supply : DC 7.4V (Li-polymer battery); DC 5V (USB terminal);

AC 120V/60Hz (Adaptor input)

PC System : Manufacturer: DELL

M/N: DCNE

Serial No.: 6CQSC2X

Mouse : Manufacturer: DELL

Model No.: M071KC Serial No.: 410042355

Printer : Manufacturer: Canon

Model No.: BJC-1000SP

Applicant : Hongkong Parkly Technology Limited

Address : Flat C, 9/F., Nan Yuen Building 54 Tai Nan Street, Prince

Edward, Kowloon, Hong Kong

Manufacturer : Shen zhen zhi lu ling Technology Co., Ltd.

Address : NO.10 Zhongxing Road, KangQiao Garden, Buji Town,

Shenzhen City, China

Date of sample received: May 5, 2011

Date of Test : May 13-14, 2011

### 1.2.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

### 1.3. 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	Туре	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 15, 2012
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 15, 2012
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 15, 2012
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 15, 2012
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2012
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2012
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2012
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 15, 2012
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 15, 2012
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 15, 2012

### 3. OPERATION OF EUT DURING TESTING

### 3.1. Operating Mode

The modes are used: Transfer data and Charging

### 3.2. Configuration and peripherals

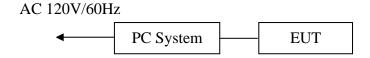


Figure 1 Setup: Transfer data

(EUT: Tablet PC)



Figure 2 Setup: Charging

(EUT: Tablet PC)



Figure 3 Setup: Charging

(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

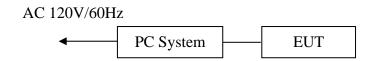


Figure 1 Setup: Transfer data

(EUT: Tablet PC)

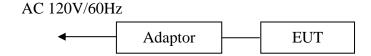
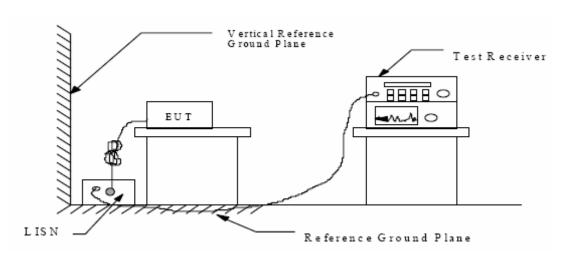


Figure 2 Setup: Charging

(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	Limit $dB(\mu V)$				
(MHz)	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			

<sup>\*</sup> 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 : ROCAT-7002

Serial Number : N/A

Manufacturer : Shen zhen zhi lu ling Technology 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 (Transfer data, Charging) 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 500hm 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: 2003 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  $150 \mathrm{kHz}$  to  $30 \mathrm{MHz}$  is checked.

Date of Test: EUT:	May 14, 20 Tablet PC	)11	_ Temp	erature: ditv:	25°C 50%				
					Connect to PC use USB terminal				
Model No.:	ROCAT-70			Supply:	PC power: A	C 120V	7/60Hz		
Test Mode:	Transfer da	ata	_ Test E	Engineer:	PEI				
Enemienau	Level	Transd	Limit	Manain	Detector	Line	PE		
Frequency MHz	dBµV	dB	dΒμV	Margin dB	Detector	птие	PE		
0.337314	36.00	11.7	59	23.3	QP	L1	GND		
0.406930	37.00	11.8	58	20.7		L1	GND		
1.495236	31.50	11.7	56 56	24.5		L1	GND		
4.482093 12.014561	31.80 45.50	11.5 11.2	56 60	24.2 14.5	• •	L1 L1	GND GND		
12.553903	45.30	11.2	60	14.5	• •	L1	GND		
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB		Line	PE		
0.406930	37.00	11.8	48	10.7	AV	L1	GND		
12.014561	43.90	11.2	50	6.1		L1	GND		
12.553903	40.80	11.2	50	9.2		L1	GND		
12.961297	40.30	11.2	50	9.7		L1	GND		
13.169925	43.00 37.20	11.2	50	7.0 12.8		L1	GND		
13.982635	37.20	11.2	50	12.8	AV	L1	GND		
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB		Line	PE		
0.338664	36.40	11.7	59	22.8	QP	N	GND		
0.406930	37.10	11.8	58	20.6		N	GND		
1.495236	31.90	11.7	56	24.1		N	GND		
4.008085	32.40	11.5	56	23.6		N	GND		
12.159314	46.00	11.2	60	14.0		N	GND		
13.169925	39.70	11.2	60	20.3	QP	N	GND		
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE		
0.406930	37.00	11.8	48	10.7	AV	N	GND		
11.004397	40.10	11.2	50	9.9	AV	N	GND		
11.271157	38.20	11.2	50	11.8		N	GND		
11.544385	41.40	11.2	50	8.6		N	GND		
12.159314	45.40	11.2	50	4.6		N	GND		
12.705153	44.10	11.2	50	5.9	AV	N	GND		

Date of Test: May 14, 2011 Temperature: 25°C

EUT: Tablet PC Humidity: 50%

Model No.: ROCAT-7002 Power Supply: AC 120V/60Hz (Adaptor input)

Test Mode: Charging Test Engineer: PEI

Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ	
MHz	dΒμV	dB	dΒμV	dB				
	40.00							
0.156734	43.20	11.0	66	22.4	QP	L1	GND	
0.213137	41.70	11.3	63	21.4	QP	L1	GND	
0.362445	40.70	11.7	59	18.0	QP	L1	GND	
0.967688	37.50	11.8	56	18.5	QP	L1	GND	
2.228851	35.50	11.6	56	20.5	QP	L1	GND	
13.543138	40.30	11.2	60	19.7	QP	L1	GND	
E	T 1	m	T 2 2 L	M =	D-++	T	DE	
Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ	
MHz	dΒμV	dB	dΒμV	dB				
0.158622	38.50	11.0	56	17.0	AV	L1	GND	
0.211442	34.30	11.3	53	18.8	AV	L1	GND	
0.264410	31.00	11.5	51	20.3	AV	L1	GND	
0.369752	32.70	11.7	49	15.8	AV	L1	GND	
0.636349	27.40	11.9	46	18.6	AV	L1	GND	
13,651700	31.80	11.2	50	18.2	AV	L1	GND	
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dΒμV	dB	dBuV	dB	2000002			
	'		'					
0.159893	47.40	11.1	66	18.1	QP	N	GND	
0.213137	45.40	11.3	63	17.7	Q.P	N	GND	
0.261263	42.10	11.5	61	19.3	QP	N	GND	
0.359562	40.90	11.7	59	17.8	QP	N	GND	
0.363895	40.70	11.7	59	17.9	QP	N	GND	
4.932760	31.10	11.4	56	24.9	ÕР	N	GND	
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dΒμV	dB	dΒμV	dB				
		11.0	56	19.0	AV	N	GND	
0.158622	36.50							
0.208925	33.50	11.3	53	19.7	AV	N	GND	
0.208925 0.263357	33.50 30.20	11.3 11.5	53 51	21.1	AV	N N	GND GND	
0.208925	33.50 30.20 30.70	11.3 11.5 11.7	53					
0.208925 0.263357	33.50 30.20 30.70 21.20	11.3 11.5	53 51	21.1	AV	N	GND	
0.208925 0.263357 0.368279	33.50 30.20 30.70	11.3 11.5 11.7	53 51 49	21.1 17.8	AV AV	N N	GND GND	
0.208925 0.263357 0.368279 1.011128	33.50 30.20 30.70 21.20	11.3 11.5 11.7 11.8	53 51 49 46	21.1 17.8 24.8	AV AV AV	N N N	GND GND GND	

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

### CONDUCTED EMISSION STANDARD FCC PART 15 B

Tablet PC M/N:ROCAT-7002

Manufacturer: Shen zhen zhi lu ling Technology Co., LTD

Operating Condition: Transfer data Test Site: 1#Shielding Room

Operator: PEI

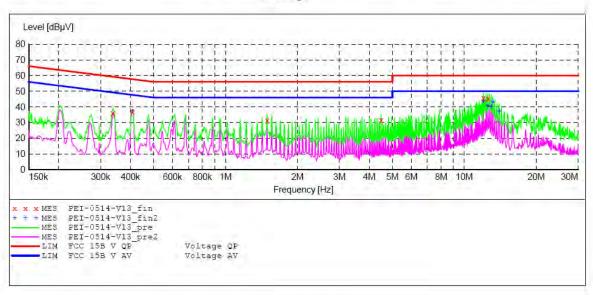
Test Specification: L 120V/60Hz

Comment: Sample No.:110743 Report No.: ATE20110564-2

SCAN TABLE: "V 150K-30MHz fin"
Short Description: SUB S SUB\_STD\_VTERM2 1.70 Start Step Detector Meas. IF Stop

Frequency Frequency Width 150.0 kHz 30.0 MHz 0.0 % Time Bandw. QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



### MEASUREMENT RESULT: "PEI-0514-V13 fin"

5/14/2011 2:5	0PM						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.337314	36.00	11.7	59	23.3	QP	L1	GND
0.406930	37.00	11.8	58	20.7	QP	L1	GND
1.495236	31.50	11.7	56	24.5	QP	L1	GND
4.482093	31.80	11.5	56	24.2	QP	1,1	GND
12.014561	45.50	11.2	60	14.5	QP	Ll	GND
12.553903	45.30	11.2	60	14.7	QF	L1	GND

### MEASUREMENT RESULT: "PEI-0514-V13 fin2"

5/14/2011 2:5 Frequency MHz	OPM Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.406930	37.00	11.8	48	10.7	AV	L1	GND
12.014561	43.90	11.2	50	6.1	AV	L1	GND
12.553903	40.80	11.2	50	9.2	AV	L1	GND
12.961297	40.30	11.2	50	9.7	AV	L1	GND
13.169925	43.00	11.2	50	7.0	AV	L1	GND
13.982635	37.20	11.2	50	12.8	AV	L1	GND

Transducer

### CONDUCTED EMISSION STANDARD FCC PART 15 B

Tablet PC M/N:ROCAT-7002

Shen zhen zhi lu ling Technology Co.,LTD Manufacturer:

Operating Condition: Transfer data Test Site: 1#Shielding Room

Operator: PEI

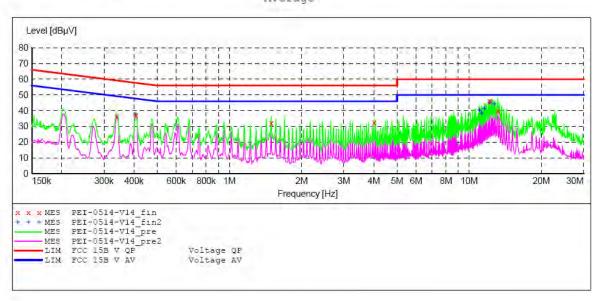
Test Specification: N 120V/60Hz Sample No.:110743 Comment:

Report No.: ATE20110564-2

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

SUB\_STD\_VTERM2 1.70 Short Description: Detector Meas. Stop Step IF Start Transducer Frequency Frequency Width 150.0 kHz 30.0 MHz 0.8 % Time Bandw. QuasiPeak 1.0 s 9 kHz NSLK8126 2008

0.8 % Average



### MEASUREMENT RESULT: "PEI-0514-V14 fin"

3PM						
Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
36.40	11.7	59	22.8	QP	N	GND
37.10	11.8	58	20.6	QP	N	GND
31.90	11.7	56	24.1	QP	N	GND
32.40	11.5	5.6	23.6	QP	N	GND
46.00	11.2	60	14.0	QP	N	GND
39.70	11.2	60	20.3	QP	N	GND
	36.40 37.10 31.90 32.40 46.00	Level Transd dB  36.40 11.7  37.10 11.8  31.90 11.7  32.40 11.5  46.00 11.2	Level Transd Limit dBμV dB dBμV 36.40 11.7 59 37.10 11.8 58 31.90 11.7 56 32.40 11.5 56 46.00 11.2 60	Level dBμV         Transd dB dBμV         Limit dBμV         Margin dB           36.40         11.7         59         22.8           37.10         11.8         58         20.6           31.90         11.7         56         24.1           32.40         11.5         56         23.6           46.00         11.2         60         14.0	Level dBμV     Transd dB dBμV     Limit dBμV     Margin dB     Detector dB       36.40     11.7     59     22.8     QP       37.10     11.8     58     20.6     QP       31.90     11.7     56     24.1     QP       32.40     11.5     56     23.6     QP       46.00     11.2     60     14.0     QP	Level dBμV         Transd dB dBμV         Limit dBμV         Margin dB         Detector Line dB           36.40         11.7         59         22.8 QP         N           37.10         11.8         58         20.6 QP         N           31.90         11.7         56         24.1 QP         N           32.40         11.5         56         23.6 QP         N           46.00         11.2         60         14.0 QP         N

### MEASUREMENT RESULT: "PEI-0514-V14 fin2"

5/14/2011	2:53PM						
Frequenc	cy Level	l Transd	Limit	Margin	Detector	Line	PE
M	Hz dBµ	V dB	dΒμV	dB			
0.40693	30 37.0	11.8	48	10.7	AV	N	GND
11.00439	97 40.1	11.2	50	9.9	AV	N	GND
11.27115	57 38.20	11.2	50	11.8	AV	N	GND
11.54438	35 41.4	11.2	5.0	8.6	AV	N	GND
12.15931	14 45.4	11.2	50	4.6	AV	N	GND
12.7051	53 44.1	11.2	50	5.9	AV	N	GND

### CONDUCTED EMISSION STANDARD FCC PART 15 B

Tablet PC M/N:ROCAT-7002

Manufacturer: Shen zhen zhi lu ling Technology Co.,LTD

Operating Condition: Charging

Test Site: 1#Shielding Room

Operator: PEI

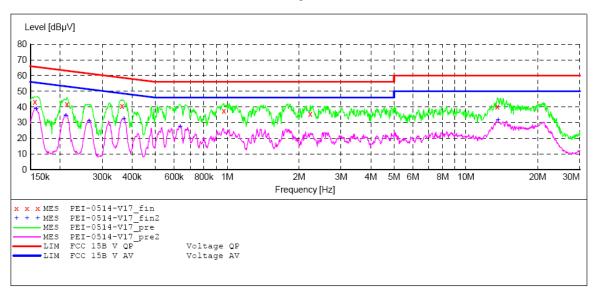
Test Specification: L 120V/60Hz Comment: Sample No.:110743 Report No.:ATE20110564-2

SCAN TABLE: "V 150K-30MHz fin"
Short Description: \_SUB S \_SUB\_STD\_VTERM2 1.70

Step Start Detector Meas. IF Stop Transducer Frequency Frequency Width 150.0 kHz 30.0 MHz 0.8 % Time Bandw.

QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



### MEASUREMENT RESULT: "PEI-0514-V17 fin"

5/14/2011 3:1	0PM						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.156734 0.213137 0.362445	43.20 41.70 40.70	11.0 11.3 11.7	66 63 59	22.4 21.4 18.0	QP QP QP	L1 L1 L1	GND GND GND
0.967688 2.228851	37.50 35.50	11.8 11.6	56 56	18.5 20.5	QP OP	L1 T.1	GND GND
13.543138	40.30	11.2	60	19.7	ÕP	L1	GND

### MEASUREMENT RESULT: "PEI-0514-V17 fin2"

5/14/2011 3:1 Frequency MHz	0PM Level dBμV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.158622	38.50	11.0	56	17.0	AV	L1	GND
0.211442	34.30	11.3	53	18.8	AV	L1	GND
0.264410	31.00	11.5	51	20.3	AV	L1	GND
0.369752	32.70	11.7	49	15.8	AV	L1	GND
0.636349	27.40	11.9	46	18.6	AV	L1	GND
13.651700	31.80	11.2	50	18.2	AV	L1	GND

### CONDUCTED EMISSION STANDARD FCC PART 15 B

Tablet PC M/N:ROCAT-7002

Manufacturer: Shen zhen zhi lu ling Technology Co., LTD

Operating Condition: Charging

Test Site: 1#Shielding Room

Operator: PEI

Test Specification: N 120V/60Hz Comment: Sample No.:110743

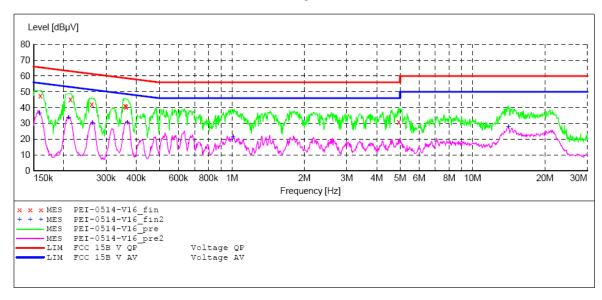
Report No.:ATE20110564-2

SCAN TABLE: "V 150K-30MHz fin"
Short Description: \_SUB\_STD\_VTERM2 1.70

Stop Start Step ΙF Detector Meas. Transducer Bandw. Time

Frequency Frequency Width 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



### MEASUREMENT RESULT: "PEI-0514-V16 fin"

5/	14/2011 3:0	07PM						
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.159893	47.40	11.1	66	18.1	QP	N	GND
	0.213137	45.40	11.3	63	17.7	QP	N	GND
	0.261263	42.10	11.5	61	19.3	ÕΡ	N	GND
	0.359562	40.90	11.7	59	17.8	QΡ	N	GND
	0.363895	40.70	11.7	59	17.9	QP	N	GND
	4.932760	31.10	11.4	56	24.9	Q̈́Ρ	N	GND

### MEASUREMENT RESULT: "PEI-0514-V16 fin2"

evel Transd	Limit	Margin	Detector	Line	PE
dBµV dB	dBuV	dB			
6.50 11.0	56	19.0	AV	N	GND
3.50 11.3	53	19.7	AV	N	GND
0.20 11.5	51	21.1	AV	N	GND
0.70 11.7	49	17.8	AV	N	GND
1.20 11.8	46	24.8	AV	N	GND
7.70 11.2	50	22.3	AV	N	GND
(()	dBµV dB 5.50 11.0 3.50 11.3 0.20 11.5 0.70 11.7 1.20 11.8	dBμV dB dBμV 5.50 11.0 56 3.50 11.3 53 0.20 11.5 51 0.70 11.7 49 1.20 11.8 46	dBµV dB dBµV dB  5.50 11.0 56 19.0  3.50 11.3 53 19.7  0.20 11.5 51 21.1  0.70 11.7 49 17.8  1.20 11.8 46 24.8	dBµV dB dBµV dB  5.50 11.0 56 19.0 AV  3.50 11.3 53 19.7 AV  0.20 11.5 51 21.1 AV  0.70 11.7 49 17.8 AV  1.20 11.8 46 24.8 AV	dBµV dB dBµV dB  5.50 11.0 56 19.0 AV N  3.50 11.3 53 19.7 AV N  0.20 11.5 51 21.1 AV N  0.70 11.7 49 17.8 AV N  1.20 11.8 46 24.8 AV N

### 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

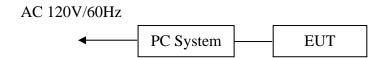


Figure 1 Setup: Transfer data

(EUT: Tablet PC)



Figure 2 Setup: Charging

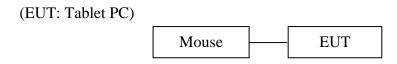
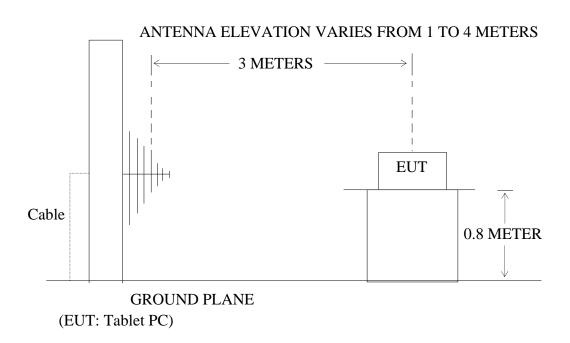


Figure 3 Setup: Playing

(EUT: Tablet PC)

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).

	Lin	nit
Frequency (MHz)	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value $(dB\mu V/m)$
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 : ROCAT-7002

Serial Number : N/A

Manufacturer : Shen zhen zhi lu ling Technology 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 modes (Transfer data, Charging, Playing) 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: 2003 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.

The final measurement for frequencies 30MHz to 6000MHz is performed with Quasi Peak detector.

## 6.6. The Emission Measurement Result **PASS.**

Date of Test: May 13, 2011 Temperature: 25°C

EUT: Tablet PC Humidity: 50%

Connect to PC use USB terminal

Model No.: ROCAT-7002 Power Supply: PC power: AC 120V/60Hz

Test Mode: Transfer data Test Engineer: PEI

Frequency: 30	)-1000N	ИHz						
Polarization								
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	165.0122	20.47	14.66	35.13	43.50	-8.37	QP
	2	183.2211	19.41	15.94	35.35	43.50	-8.15	QP
Horizontal	3	236.7923	20.33	16.80	37.13	46.00	-8.87	QP
	4	290.0239	22.46	18.61	41.07	46.00	-4.93	QP
	5	412.0505	17.45	22.94	40.39	46.00	-5.61	QP
	6	460.0909	17.02	23.23	40.25	46.00	-5.75	QP
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	144.0760	23.71	14.48	38.19	43.50	-5.31	QP
	2	165.0162	23.05	14.66	37.71	43.50	-5.79	QP
Vertical	3	183.2211	20.73	15.87	36.60	43.50	-6.90	QP
	4	460.0791	14.02	23.23	37.25	46.00	-8.75	QP
	5	665.0275	10.78	26.08	36.86	46.00	-9.14	QP
	6	786.7128	11.61	27.90	39.51	46.00	-6.49	QP
Frequency: 10	000-600	0MHz					•	
Polarization								
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1023.710	51.71	-12.54	39.17	54.00	-14.83	QP
	2	1348.816	50.87	-12.10	38.77	54.00	-15.23	QP
Horizontal	3	1489.394	52.55	-11.52	41.03	54.00	-12.97	QP
	4	1549.645	52.68	-10.99	41.69	54.00	-12.31	QP
	5	1594.989	50.08	-11.07	39.01	54.00	-14.99	QP
	6	2030.764	48.99	-8.98	40.01	54.00	-13.99	QP
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1023.710	53.50	-12.54	40.96	54.00	-13.04	QP
	2	1375.828	53.79	-11.95	41.84	54.00	-12.16	QP
Vertical	3	1468.070	51.87	-11.56	40.31	54.00	-13.69	QP
	4	1674.536	51.64	-10.52	41.12	54.00	-12.88	QP
	5	2060.261	50.02	-8.86	41.16	54.00	-12.84	QP
	6	2206.330	49.41	-8.17	41.24	54.00	-12.76	QP

Date of Test: May 13, 2011 Temperature: 25°C

EUT: Tablet PC Humidity: 50%

Model No.: ROCAT-7002 Power Supply: AC 120V/60Hz (Adaptor input)

Test Mode: Charging Test Engineer: PEI

Frequency: 30	)-1000N	ИHz						
Polarization								
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	165.8908	22.05	14.85	36.90	43.50	-6.60	QP
	2	265.9035	22.07	18.59	40.66	46.00	-5.34	QP
Horizontal	3	368.6681	19.11	21.50	40.61	46.00	-5.39	QP
	4	394.1197	18.55	22.04	40.59	46.00	-5.41	QP
	5	456.7909	17.59	23.15	40.74	46.00	-5.26	QP
	6	820.5062	12.52	28.07	40.59	46.00	-5.41	QP
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	36.1388	16.24	16.61	32.85	40.00	-7.15	QP
	2	125.4868	20.93	15.04	35.97	43.50	-7.53	QP
Vertical	3	150.4952	23.45	14.53	37.98	43.50	-5.52	QP
	4	156.4259	23.20	14.57	37.77	43.50	-5.73	QP
	5	196.5595	21.10	16.16	37.26	43.50	-6.24	QP
	6	460.7909	14.88	23.27	38.15	46.00	-7.85	QP
Frequency: 10	000-600	0MHz						
Polarization								
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1068.970	48.90	-12.66	36.24	54.00	-17.76	QP
	2	1148.892	47.80	-12.50	35.30	54.00	-18.70	QP
Horizontal	3	1296.373	49.76	-12.21	37.55	54.00	-16.45	QP
	4	1351.250	47.42	-12.09	35.33	54.00	-18.67	QP
	5	1577.832	48.18	-11.04	37.14	54.00	-16.86	QP
	6	1899.739	47.77	-9.72	38.05	54.00	-15.95	QP
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1018.189	50.32	-12.51	37.81	54.00	-16.19	QP
	2	1144.758	48.18	-12.51	35.67	54.00	-18.33	QP
Vertical	3	1296.373	50.32	-12.21	38.11	54.00	-15.89	QP
	4	1577.832	48.19	-11.04	37.15	54.00	-16.85	QP
	5	1899.739	47.66	-9.72	37.94	54.00	-16.06	QP
	6	1990.894	48.97	-9.06	39.91	54.00	-14.09	QP

Date of Test: May 13, 2011 Temperature: 25°C

EUT: Tablet PC Humidity: 50%

Model No.: ROCAT-7002 Power Supply: DC 7.4V (Li-polymer battery)

Test Mode: Playing Test Engineer: PEI

Frequency: 30	)-1000N	MHz							
Polarization									
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	160.8849	20.79	14.61	35.40	43.50	-8.10	QP	
	2	261.2730	20.81	18.62	39.43	46.00	-6.57	QP	
Horizontal	3	394.1197	18.92	22.04	40.96	46.00	-5.04	QP	
	4	411.0923	17.64	22.90	40.54	46.00	-5.46	QP	
	5	456.7909	17.67	23.15	40.82	46.00	-5.18	QP	
	6	820.5062	12.38	28.07	40.45	46.00	-5.55	QP	
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	36.2484	16.36	16.60	32.96	40.00	-7.04	QP	
	2	146.8392	24.09	14.50	38.59	43.50	-4.91	QP	
Vertical	3	191.1114	21.34	16.04	37.38	43.50	-6.12	QP	
	4	201.4539	21.81	16.21	38.02	43.50	-5.48	QP	
	5	409.6505	14.77	22.85	37.62	46.00	-8.38	QP	
	6	460.2709	15.13	23.25	38.38	46.00	-7.62	QP	
Frequency: 10	000-600	00MHz							
Polarization									
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	1068.970	50.16	-12.66	37.50	54.00	-16.50	QP	]
	2	1228.131	46.42	-12.38	34.04	54.00	-19.96	QP	
Horizontal	3	1315.204	48.62	-12.17	36.45	54.00	-17.55	QP	]
	4	1577.832	47.51	-11.04	36.47	54.00	-17.53	QP	
	5	1899.739	47.37	-9.72	37.65	54.00	-16.35	QP	
	6	1990.894	46.87	-9.06	37.81	54.00	-16.19	QP	
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	1018.189	49.50	-12.51	36.99	54.00	-17.01	QP	
	2	1144.758	48.91	-12.51	36.40	54.00	-17.60	QP	•
Vertical	3	1228.131	50.94	-12.38	38.56	54.00	-15.44	QP	
	4	1454.898	49.71	-11.59	38.12	54.00	-15.88	QP	•
	5	1580.678	48.37	-11.04	37.33	54.00	-16.67	QP	
	6	1899.739	48.37	-9.72	38.65	54.00	-15.35	QP	

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.



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.: pei #3911

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

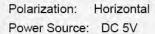
Temp.( C)/Hum.(%) Tran C / 51 %

EUT: Tablet PC Mode: Transfer data

Model: ROCAT-7002

Manufacturer: Shen zhen zhi li ling Technology Co.,LTD

Note: Sample No.:110734 Report No.:ATE20110564-2

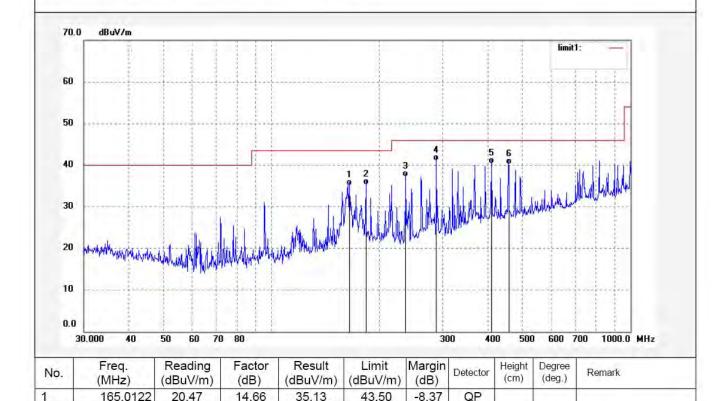


Date: 11/05/13/

Engineer Signature: PEI

Distance: 3m

Time: 11/25/20



43.50

46.00

46.00

46.00

46.00

-8.15

-8.87

-4.93

-5.61

-5.75

QP

QP

QP

QP

QP

35.35

37.13

41.07

40.39

40.25

15.94

16.80

18.61

22.94

23.23

2

3

4

5

6

183.2211

236.7923

290.0239

412.0505

460.0909

19.41

20.33

22.46

17.45

17.02



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.: pei #3910

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 51 %

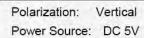
EUT: Tablet PC

Mode: Transfer data

Model: ROCAT-7002

Manufacturer: Shen zhen zhi li ling Technology Co.,LTD

Note: Sample No.:110734 Report No.:ATE20110564-2



Date: 11/05/13/ Time: 11/13/12

Engineer Signature: PEI

Distance: 3m

									limit	1: —
60				**********						
50										
40					2 3			4	5 0	6
	1	1 1 1				1 . 3		u lik	Tite.	Mad Mad
30	1 1.16	1. 1		I Michael	Multin			Mahal	de la	Man Arda
30 20	Multh	NAME OF THE PERSON OF THE PERS	1			Walter Hope			nt shall have the	
	Multh	now has the house	Www.			Walnes Arts			A AMARIAN	
20 10 0.0	L.	nandan Maran	Milwala			Walandar.				
20 10 0.0	30.000 40	50 60 70				30	0 40			700 1000.0 MHz
20 10 0.0	L.	50 60 70  Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	0 40	0 500 Height (cm)	Degree (deg.)	700 1000.0 MHz
20 10 0.0	30.000 40 Freq.	Reading	Factor			Margin		Height	Degree	
20 10 0.0	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	(dBuV/m)	(dBuV/m)	Margin (dB)	Detector	Height	Degree	

46.00

46.00

-9.14

-6.49

QP

QP

6

665.0275

786.7128

10.78

11.61

26.08

27.90

36.86

39.51



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.: pei #3901

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

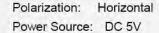
Temp.( C)/Hum.(%) 25 C / 51 %

EUT: Tablet PC Mode: Transfer data

Model: ROCAT-7002

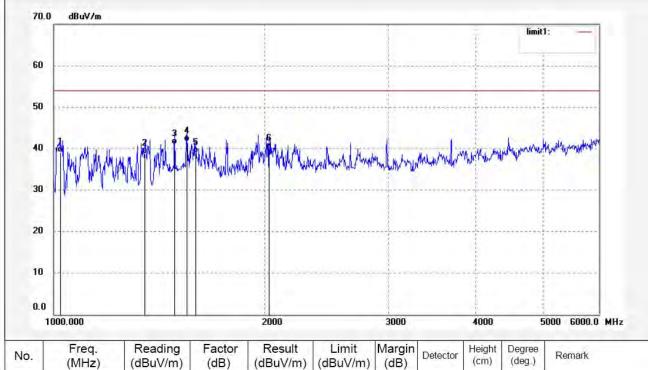
Manufacturer: Shen zhen zhi li ling Technology Co.,LTD

Note: Sample No.:110734 Report No.:ATE20110564-2



Date: 11/05/13/ Time: 9/38/31

Engineer Signature: PEI



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	1023.710	51.71	-12.54	39.17	54.00	-14.83	QP				
2	1348.816	50.87	-12.10	38.77	54.00	-15.23	QP				
3	1489.394	52.55	-11.52	41.03	54.00	-12.97	QP				
4	1549.645	52.68	-10.99	41.69	54.00	-12.31	QP				
5	1594,989	50.08	-11.07	39.01	54.00	-14.99	QP				
6	2030.764	48.99	-8.98	40.01	54.00	-13.99	QP				



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.: pei #3900

Standard: FCC Class B 3M Radiated

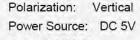
Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 51 %

EUT: Tablet PC
Mode: Transfer data
Model: ROCAT-7002

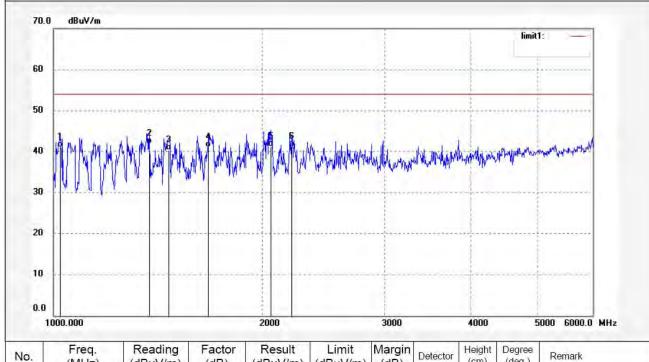
Manufacturer: Shen zhen zhi li ling Technology Co.,LTD

Note: Sample No.:110734 Report No.:ATE20110564-2



Date: 11/05/13/ Time: 9/26/26

Engineer Signature: PEI



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	1023.710	53.50	-12.54	40.96	54.00	-13.04	QP				_ 11
2	1375.828	53.79	-11.95	41.84	54.00	-12.16	QP	1 2 11			- 11
3	1468.070	51.87	-11.56	40.31	54.00	-13.69	QP				
4	1674.536	51.64	-10.52	41.12	54.00	-12.88	QP				
5	2060.261	50.02	-8.86	41.16	54.00	-12.84	QP				
6	2206.330	49.41	-8.17	41.24	54.00	-12.76	QP				



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.: pei #3908

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 51 %

EUT: Tablet PC Mode: Charging

Manufacturer: Shen zhen zhi li ling Technology Co.,LTD

Model: ROCAT-7002

Time: 10/47/03 Engineer Signature: PEI

Distance: 3m

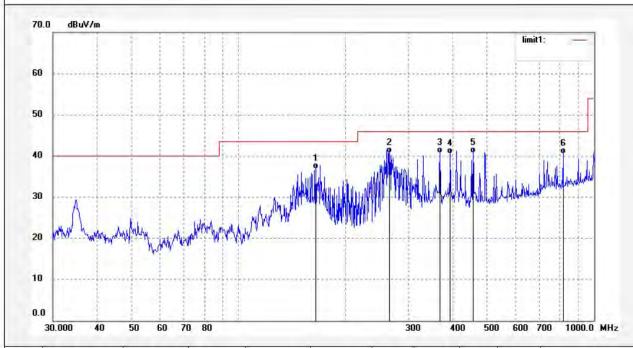
Polarization:

Date: 11/05/13/

Horizontal

Power Source: AC 120V/60Hz

Sample No.:110734 Report No.:ATE20110564-2 Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	165.8908	22.05	14.85	36.90	43.50	-6.60	QP				
2	265.9035	22.07	18.59	40.66	46.00	-5.34	QP				
3	368.6681	19.11	21.50	40.61	46.00	-5.39	QP				
4	394.1197	18.55	22.04	40.59	46.00	-5.41	QP				
5	456.7909	17.59	23.15	40.74	46.00	-5.26	QP				
6	820.5062	12.52	28.07	40.59	46.00	-5.41	QP				



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Site: 966 chamber

Job No.: pei #3909

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 51 %

EUT: Tablet PC Mode: Charging

Model: ROCAT-7002

Manufacturer: Shen zhen zhi li ling Technology Co.,LTD

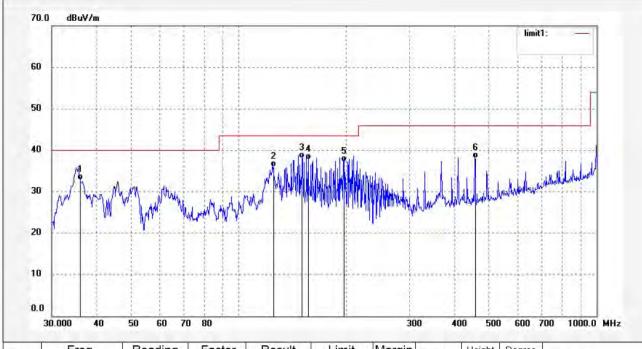
Note: Sample No.:110734 Report No.:ATE20110564-2

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 11/05/13/ Time: 10/58/08

Engineer Signature: PEI



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	36.1388	16.24	16.61	32.85	40.00	-7.15	QP	1111	4	1	
2	125.4868	20.93	15.04	35.97	43.50	-7.53	QP	1	100		
3	150.4952	23.45	14.53	37.98	43.50	-5.52	QP	1 4 4		1	
4	156.4259	23.20	14.57	37.77	43.50	-5.73	QP	4			T.
5	196.5595	21.10	16.16	37.26	43.50	-6.24	QP				
6	460.7909	14.88	23.27	38.15	46.00	-7.85	QP				



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Job No.: pei #3902

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 51 %

EUT: Tablet PC Mode: Charging

Model: ROCAT-7002

Manufacturer: Shen zhen zhi li ling Technology Co.,LTD

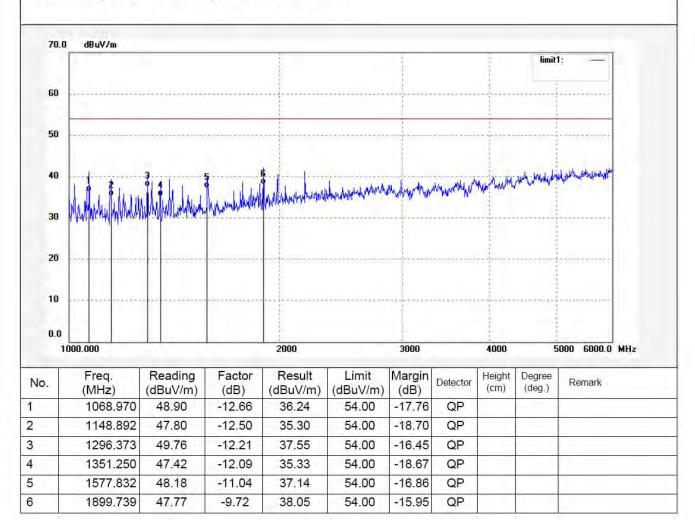
Note: Sample No.:110734 Report No.:ATE20110564-2

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 11/05/13/ Time: 9/45/24

Engineer Signature: PEI





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Job No.: pei #3903

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

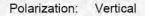
Temp.( C)/Hum.(%) 25 C / 51 %

EUT: Tablet PC Mode: Charging

Model: ROCAT-7002

Manufacturer: Shen zhen zhi li ling Technology Co.,LTD

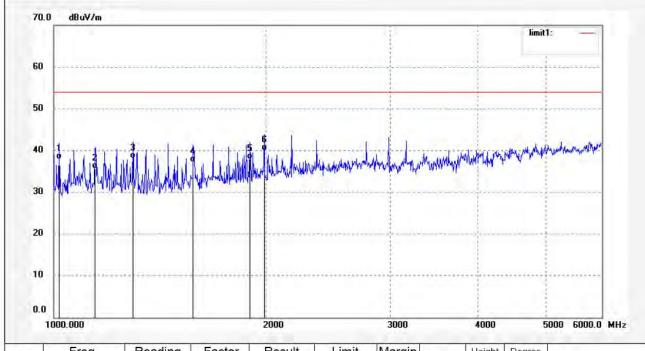
Note: Sample No.:110734 Report No.:ATE20110564-2



Power Source: AC 120V/60Hz

Date: 11/05/13/ Time: 9/53/56

Engineer Signature: PEI



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1018.189	50.32	-12.51	37.81	54.00	-16.19	QP			
2	1144.758	48.18	-12.51	35.67	54.00	-18.33	QP			
3	1296.373	50.32	-12.21	38.11	54.00	-15.89	QP			
4	1577.832	48.19	-11.04	37.15	54.00	-16.85	QP			
5	1899.739	47.66	-9.72	37.94	54.00	-16.06	QP			
6	1990.894	48.97	-9.06	39.91	54.00	-14.09	QP			



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Job No.: pei #3907

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 51 %

EUT: Tablet PC
Mode: Playing

Model: ROCAT-7002

Manufacturer: Shen zhen zhi li ling Technology Co.,LTD

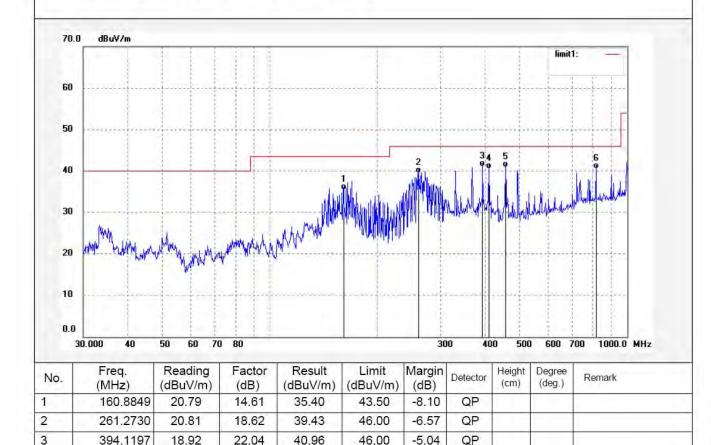
Note: Sample No.:110734 Report No.:ATE20110564-2

Polarization: Horizontal Power Source: DC 7.4V

Date: 11/05/13/ Time: 10/38/30

Engineer Signature: PEI

Distance: 3m



4

5

6

411.0923

456.7909

820.5062

17.64

17.67

12.38

22.90

23.15

28.07

40.54

40.82

40.45

46.00

46.00

46.00

-5.46

-5.18

-5.55

QP

QP

QP



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.: pei #3906

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

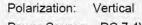
Temp.( C)/Hum.(%) 25 C / 51 %

EUT: Tablet PC Mode: Playing

Model: ROCAT-7002

Manufacturer: Shen zhen zhi li ling Technology Co.,LTD

Note: Sample No.:110734 Report No.:ATE20110564-2

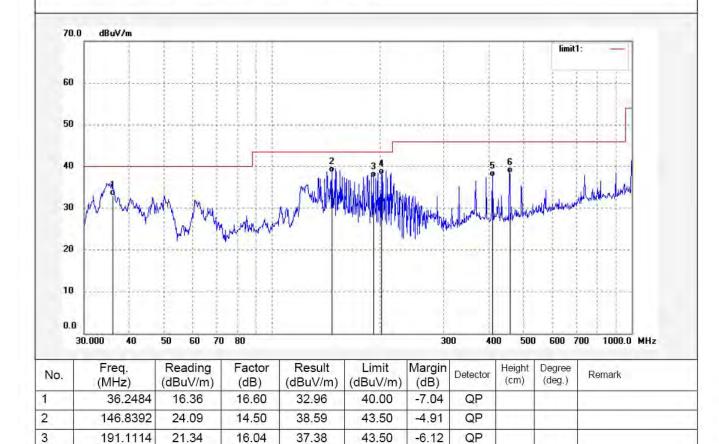


Power Source: DC 7.4V

Date: 11/05/13/ Time: 10/27/29

Engineer Signature: PEI

Distance: 3m



43.50

46.00

46.00

-5.48

-8.38

-7.62

QP

QP

QP

4

5

6

201.4539

409.6505

460.2709

21.81

14.77

15.13

16.21

22.85

23.25

38.02

37.62

38.38



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Job No.: pei #3915

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 51 %

EUT: Tablet PC Mode: Playing

Model: ROCAT-7002

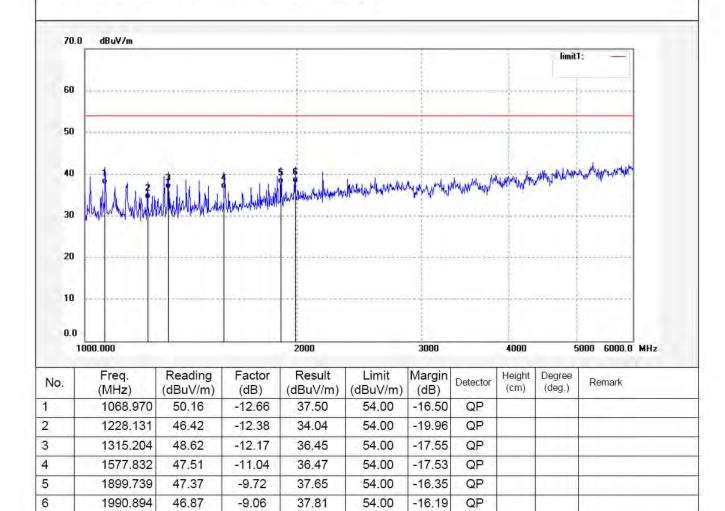
Manufacturer: Shen zhen zhi li ling Technology Co.,LTD

Note: Sample No.:110734 Report No.:ATE20110564-2

Polarization: Horizontal Power Source: DC 7.4V

Date: 11/05/13/ Time: 10/18/22

Engineer Signature: PEI





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Job No.: pei #3904

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 51 %

EUT: Tablet PC

Mode: Playing

Model: ROCAT-7002

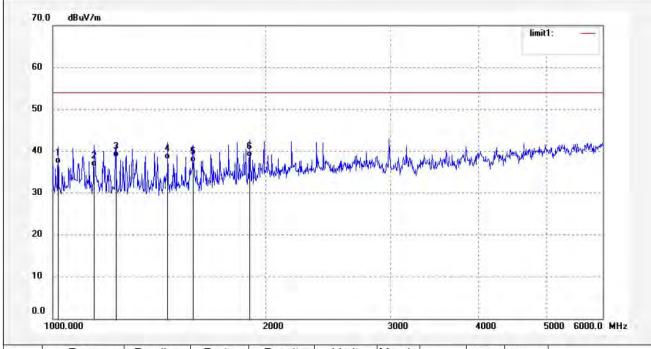
Manufacturer: Shen zhen zhi li ling Technology Co.,LTD

Note: Sample No.:110734 Report No.:ATE20110564-2

Polarization: Vertical Power Source: DC 7.4V

Date: 11/05/13/ Time: 10/06/01

Engineer Signature: PEI



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	1018.189	49.50	-12.51	36.99	54.00	-17.01	QP				
2	1144.758	48.91	-12.51	36.40	54.00	-17.60	QP				
3	1228.131	50.94	-12.38	38.56	54.00	-15.44	QP	1			
4	1454.898	49.71	-11.59	38.12	54.00	-15.88	QP				
5	1580.678	48.37	-11.04	37.33	54.00	-16.67	QP				
6	1899.739	48.37	-9.72	38.65	54.00	-15.35	QP				