FCC TEST REPORT

For

MID

Model Number: PC617

FCC ID : YW5-JH201011617V

Reference No. : CT10102426-S-F

Applicant : Shenzhen Firstview Electronic Co. Ltd.

Address 3-4/F, Block B, Huafeng 1st Technology ZoneBaoan Main Road,

Baoan District, Shenzhen, China

Prepared By : Shenzhen CCE Test Electronic Co., Ltd.

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Shenzhen, China

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Date of Test : November 01, 2010

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1. TEST SUMMARY

Test Items	Test Requirement	Test Method	Test Results
Conducted Emission (150KHz to 30MHz)	FCC PART 15.107	ANSI C63.4: 2009	PASS
Radiated Emission (30MHz to 1GHz)	FCC PART 15.109	ANSI C63.4: 2009	PASS

2. TEST LABORATORY AND FACILITY INFROMATION

The test facility is recognized, certified, or accredited by the following organizations:

• FCC – Registration No.: 752051

Accurate Technology Co., Ltd. has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752051, June 02, 2008.

2.1. Test Location

All Emissions tests were performed at:-

Accurate Technology Co., Ltd. at F1, Bldg. A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan, Shenzhen, 518057, China.

3. GENERAL INFORMATION

3.1. EUT Description

Product : MID

Model No. : PC617

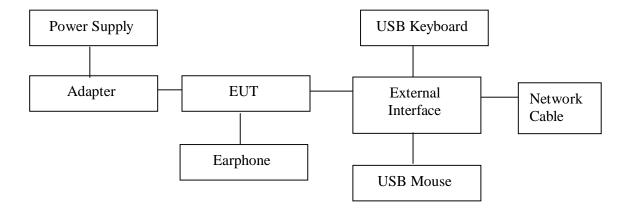
Technical Data: Adapter Input: 100-240V AC, 0.5A,50/60Hz

Adapter Output: 9V DC, 1500mA

Applicant : Shenzhen Firstview Electronic Co. Ltd.

Manufacturer : Shenzhen Firstview Electronic Co. Ltd.

3.2. Block Diagram of EUT Configuration



3.3. Test Conditions

Temperature:23-26 °C Relative Humidity: 51-58%

3.4. Standards Applicable for Testing

The customer requested FCC tests for a MID. The standards used were FCC Part 15 Subpart B.

4. TEST EQUIPMENT USED

Equi	Equipment list for measuring the radiated disturbance								
No. Type of		of Model I		Serial No.	Last Cal.	Calibration			
	instrument				Date	Interval			
1	EMI Test Receiver	ESCS30	R&S	100307	2010.03.29	12 Months			
2	EMI Test Receiver	ESPI3	R&S	101526	2010.03.29	12 Months			
3	Spectrum Analyzer	E7405A	Agilent	MY45115511	2010.03.29	12 Months			
4	Pre-Amplifier	CBLU1183540-01	R&S	3791	2010.03.29	12 Months			
5	Bi-Log Antenna	VULB9163	Schwarz-beck	9163-323	2010.03.29	12 Months			
6	Loop Antenna	FMZB1516	Schwarz-beck	1516131	2010.03.29	12 Months			
7	Horn Antenna	BBHA9120D	Schwarz-beck	9120D-655	2010.03.29	12 Months			
8	Horn Antenna	BBHA9170	Schwarz-beck	9170-359	2010.03.29	12 Months			
9	Signal Generator	SML01	R&S	101161	2010.03.29	12 Months			
Equi	ipment list for mea	suring the conduc	ted disturbanc	e					
No.	Type of	Model	MFG	Serial No.	Last Cal.	Calibration			
	instrument				Date	Interval			
1	EMI Test Receiver	ESCS30	R&S	100307	2010.03.29	12 Months			
2	EMI Test Receiver	ESPI3	R&S	100396	2010.03.29	12 Months			
3	LISN	ESH3-Z5	R&S	100305	2010.03.29	12 Months			
4	LISN	ESH3-Z5	R&S	100310	2010.03.29	12 Months			

Support Equipment:								
Equipment	Brand Name	Model	Serial No.					
USB Keyboard	Dell	-	/					
USB Mouse	Dell	-	/					

5. CONDUCTED EMISSION TEST

5.1. Test Standard and Limit

5.1.1. Test standard

FCC Part 15.107

5.1.2.Test Method

Base on ANSI C63.4:2009

5.1.3. Limits of disturbance voltage at the mains terminal (Class B)

Frequency	Maximum RF Line Voltage (dBmV)					
rrequency	Quasi-peak Level	Average Level				
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *				
500kHz~5MHz	56	46				
5MHz~30MHz	60	50				

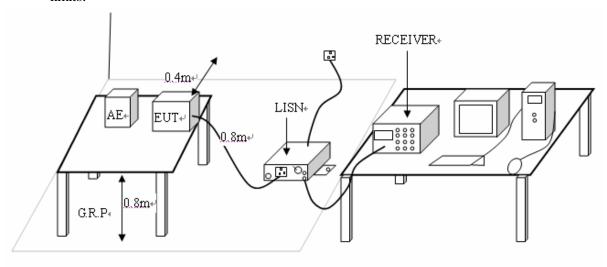
^{*} Decreasing linearly with logarithm of the frequency

5.2. Test Procedure

- 1. The EUT was connected with power supply by adapter and placed on a table.
- 2. The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 3. The EUT was tested according to ANSI C63.4:2009. The frequency spectrum from 150 kHz to 30MHz was investigated.
- 4. The maximized peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

5.3. Test Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2009, The specification used in this report was the FCC Part15 Paragraph 15.107 limits.



Shenzhen CCE Test Electronic Co., Ltd.

5.4. Test Data

Live Line:

ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: MID M/N:PC617
Manufacturer: Fisrtview
Operating Condition: Working

Test Site: 1#Shielding Room
Operator: Star

Test Specification: L 120V/60Hz

Comment:

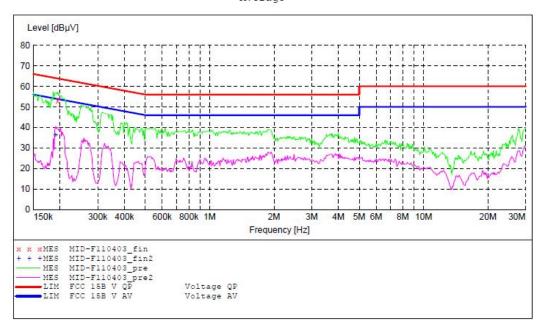
Start of Test: 1

11/4/2010 / 9:20:58AM

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: "MID-F110403 fin"

11/4/2010 9:23AM

Frequency MHz	Level dBµV		Limit dBµV		Detector	Line	PE
0.195000	53.00	11.2	64	10.8	QP	L1	GND

MEASUREMENT RESULT: "MID-F110403 fin2"

11/4/2010 9:23AM

Frequency MHz	Level dBµV	Transd dB		Margin dB	Detector	Line	PE
0.190500	36.30	11.2	54	17.7	AV	L1	GND

Shenzhen CCE Test Electronic Co., Ltd.

Neutral Line:

ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: MID M/N:PC617 Manufacturer: Fisrtview Operating Condition: Working

Test Site: 1#Shielding Room

Operator: Star

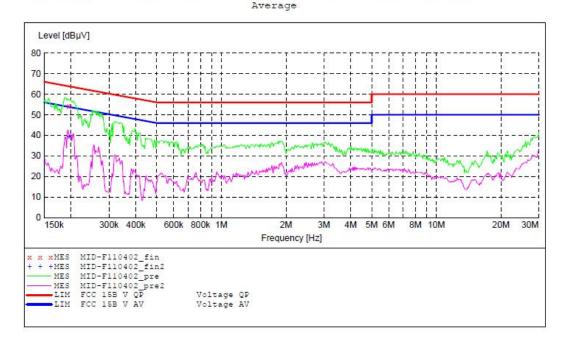
Test Specification: N 120V/60Hz

Comment:

Start of Test: 11/4/2010 / 9:18:10AM

SCAN TABLE: "V 150K-30MHz fin" Short Description: _SUB_S

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



MEASUREMENT RESULT: "MID-F110402 fin"

11/4/2010 9:20AM

Frequency MHz	uency Level Trans MHz dBµV d		Limit dBµV	Margin dB	Detector	Line	PE
0.195000	54.10	11.2	64	9.7	OP	N	GND

14.8 AV

MEASUREMENT RESULT: "MID-F110402 fin2"

0.195000 39.00 11.2 54

11/4/2010	9:202	MA				
	cy Hz	Level dBµV	Transd dB	Margin dB	Detector	Lir

PE

GND

N

6. RADIATED EMISSION TEST

6.1. Test Standard and Limit

6.1.1. Test Standard

FCC Part 15.109

6.1.2.Test Method

Base on ANSI C63.4:2009

6.1.3.Test Frequency Range

30MHz to 1GHz

6.1.4. Limits of Radiated Disturbances at 3m Distance

FREQUENCY MHz	FIELD STRENGTHS LIMITS dB(mV/m)
30 ~ 88	40.0
88 ~ 216	43.5
216 ~ 960	46.0
Above 960	54.0

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

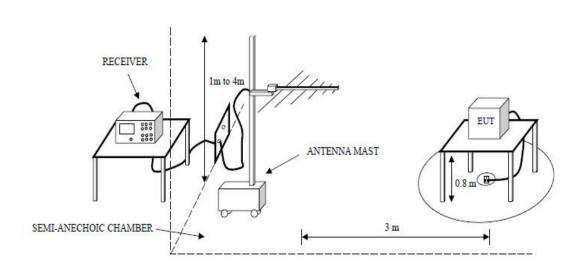
6.2. Test Procedure

- The EUT was connected with PC and placed on a non-conductive turntable.
 Maximizing procedure was performed on the six (6) highest emissions to ensure EUT is compliant with all installation combinations.
- 2. All data was recorded in the peak and average detection mode.
- 3. The EUT was under normal mode during the final qualification test and the configuration was used to represent the worst case results.

6.3. Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4:2009, The specification used in this report was the FCC Part15 B limits.

The EUT was placed on the test table in working mode.



6.4. Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on ANSI C63.4:2009, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Accurate Technology Co., Ltd. is ± 3.0 dB.

6.5. Spectrum Analyzer Setup

According to FCC Part15 Paragraph 15.109 Rules, the system was tested to 1000 MHz.

Start Frequency: 30 MHz Stop Frequency: 1000 MHz Sweep Speed: Auto IF Bandwidth: 100 kHz Video Bandwidth: 120 MHz Quasi-Peak Adapter Bandwidth: 120 kHz Quasi-Peak Adapter Mode: Normal Resolution Bandwidth: 1MHz

6.6. Test Data



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.: Polarization: Vertical

Standard: FCC Class B 3M Radiated Power Source: AC 120V/60Hz

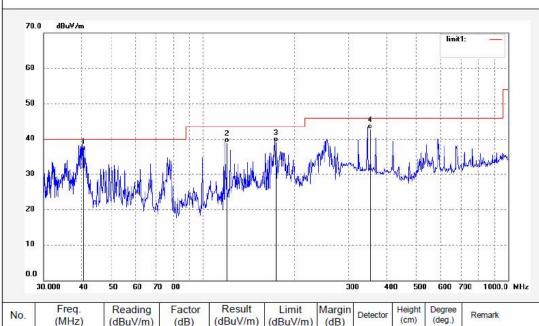
 Test item:
 Radiation Test
 Date: 2010/11/04

 Temp.(C)/Hum.(%)
 25 C / 50 %
 Time: 12:36:26

EUT: MID Engineer Signature: Mason Mode: Distance: 3m

Model: PC617 Manufacturer:

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)		Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	40.7505	20.36	16.29	36.65	40.00	-3.35	QP			
2	119.9952	24.23	14.67	38.90	43.50	-4.60	QP	i i		
3	174.9970	23.42	15.75	39.17	43.50	-4.33	QP	Ġ.		
4	349.9970	22.05	20.78	42.83	46.00	-3.17	QP	100		



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

Standard: FCC Class B 3M Radiated

Test item: Radiation Test Temp.(C)/Hum.(%) 25 C / 50 %

EUT: MID Mode:

Job No.:

Model: PC617 Manufacturer:

Polarization: Horizontal

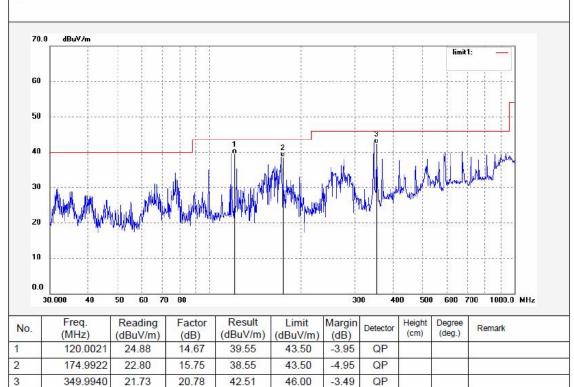
Power Source: AC 120V/60Hz

Date: 2010/11/04 Time: 12:59:34

Engineer Signature: Mason

Distance: 3m

Note:



-3.49

QP

APPENDIX: EUT PHOTOS AND TEST SETUP PHOTOS

Photo 1Component View of EUT



Photo 2 Appearance View of EUT



Photo 3 Appearance View of EUT



Photo 4 Open View of EUT



Photo 5 Front View of PCB (Main Board)



Photo 6 Back View of PCB (Main Board)

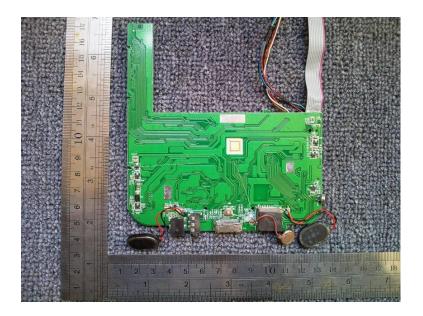


Photo 7 Front View of PCB (Camera)

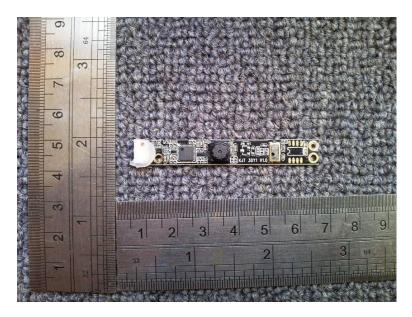


Photo 8 Back View of PCB (Camera)



Photo 9 Front View of PCB (External Interface Adapter)

Photo 10 Back View of PCB (External Interface Adapter)

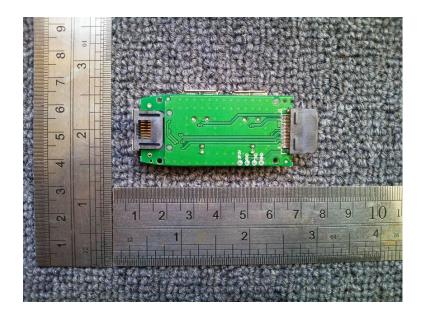


Photo 11 Appearance View of Adapter

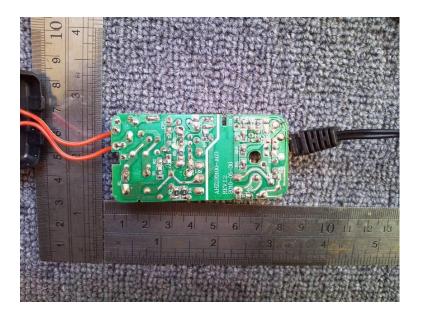


Photo 12 Appearance View of Adapter



Photo 13 Front View of PCB (Adapter)







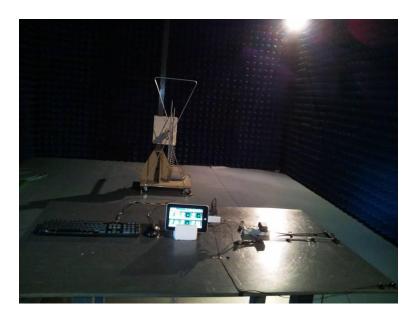


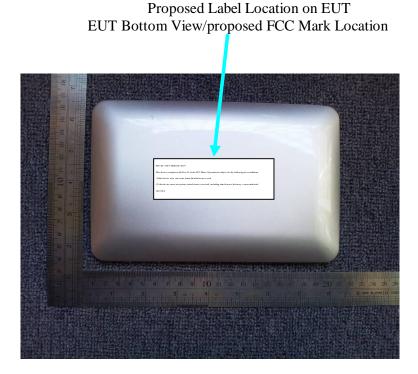
Photo 16 Conducted Emission Test View



7. FCC ID LABEL

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The Label must not be a stick-on paper. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.



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