

# FCC 47 CFR PART 15 SUBPART B TEST REPORT

For

**Product Name: Tablet** 

S970-1020, PC Tab9701, PC Tab9702, PC Tab9703, PC Tab9704,

Model Number: PC Tab9705, Tab9701, Tab9702, Tab9703, Tab9704,

**Tab9705, SX-ST970WHP** 

**Brand Name: N/A** 

FCC ID: ZGU-S970-1020

Report No.: MOST110820F1

Date of Issue: September. 14, 2011

Applicant: Shaoxing LongXin Electronics Co., Ltd.

Address: Xujiadai Village, Sundun Town, Shaoxing County, Zhejiang, China

Issued by: Most Technology Service Co., Ltd.

No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Address:

Shenzhen, Guangdong, China

Tel: 86-755-8617 0306

Fax: 86-755-8617 0310

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# 1. VERIFICATION OF CONFORMITY

**Equipment Under Test:** Tablet

Brand Name: N/A

Model Number: S970-1020,PC Tab9701, PC Tab9702, PC Tab9703, PC Tab9704,PC

Tab9705, Tab9701, Tab9702, Tab9703, Tab9704, Tab9705, SX-ST970WHP

**FCC ID:** ZGU-S970-1020

Applicant: Shaoxing LongXin Electronics Co., Ltd.

Xujiadai Village, Sundun Town, Shaoxing County, Zhejiang, China

Manufacturer: Shaoxing LongXin Electronics Co., Ltd.

Xujiadai Village, Sundun Town, Shaoxing County, Zhejiang, China

**Technical Standards:** FCC Part 15 B **File Number:** MOST110820F1

Date of test: August. 30,2011 — September. 13, 2011

**Deviation:** None **Condition of Test Sample:** Normal

The above equipment was tested by MOST for compliance with the requirements set forth in FCC Part 15 and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):

Zhang Ling S

July Wen

September. 14, 2011

Review by (+ signature):

September. 14, 2011

Approved by (+ signature):

Terry Yang

September. 14, 2011

# 2. GENERAL INFORMATION

# 2.1 PRODUCT INFORMATION

Housing Type: Plastic

**EUT Rating Voltage:** AC Adapter(100V-240V 50/60Hz);

Voltage During Test: 120VAC 60Hz

Model Number: S970-1020

**Series Number:** PC Tab9701, PC Tab9702, PC Tab9703, PC Tab9704, PC Tab9705,

Tab9701, Tab9702, Tab9703, Tab9704, Tab9705, SX-ST970WHP

Description of Differences: Only the appearance, model name and color are different.

#### NOTE:

1. Please refer to Appendix 2 for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

# 2.2 OBJECTIVE

Perform FCC Part 15 Subpart B tests for FCC Marking.

# 2.3 TEST STANDARDS AND RESULTS

Test items and the results are as bellow:

EMISSION							
Standard	Item	Result	Remarks				
FCC 47 CFR Part 15 Subpart B	Conducted	PASS	Meet Class B limit				
1 CC 47 CI K Fait 15 Subpart B	Radiated	PASS	Meet Class B limit				

Note: 1. The test result judgment is decided by the limit of measurement standard

2. The information of measurement uncertainty is available upon the customer's request.

# 2.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35°CHumidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

# 2.5 MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

- Uncertainty of Conducted Emission, Uc = ±1.8dB
- Uncertainty of Radiated Emission, Uc = ±3.2dB

# 3. TEST METHODOLOGY

#### 3. 1TEST FACILITY

Test Site: Most Technology Service Co., Ltd.

Location: No.5, Langshan 2nd Rd, North Hi-Tech Industrial park, Nanshan, Shenzhen,

Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009 and CISPR

16 requirements. The FCC Registration Number is 490827.

The CNAS Registration Number is CNAS L3573.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4:2009 and CISPR 16

requirements that meet industry regulatory agency and accreditation agency

requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted

Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of

measurement up to 1GHz.

# 3.2 GENERAL TEST PROCEDURES

#### **EUT Function and Test Mode**

The EUT has been tested under normal operating (TX) and standby (RX) condition.

The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The following data show only with the worst case setup.

The worst case of Y axis was reported.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

#### Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2009, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

#### Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2009.

#### 3.3 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110  10.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218 6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294 8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293	16.42 - 16.423 16.69475 - 16.69525 16.80425 - 16.80475 25.5 - 25.67 37.5 - 38.25 73 - 74.6 74.8 - 75.2 108 - 121.94 123 - 138 149.9 - 150.05 156.52475 - 156.52525 156.7 - 156.9 162.0125 - 167.17 167.72 - 173.2	399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710 1718.8 - 1722.2 2200 - 2300 2310 - 2390 2483.5 - 2500 2655 - 2900 3260 - 3267 3332 - 3339	4.5 - 5.15 5.35 - 5.46 7.25 - 7.75 8.025 - 8.5 9.0 - 9.2 9.3 - 9.5 10.6 - 12.7 13.25 - 13.4 14.47 - 14.5 15.35 - 16.2 17.7 - 21.4 22.01 - 23.12 23.6 - 24.0 31.2 - 31.8
12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	240 - 285 322 - 335.4	3345.8 - 3358 3600 - 4400	36.43 - 36.5 ( <sup>2</sup> )

<sup>&</sup>lt;sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

<sup>&</sup>lt;sup>2</sup> Above 38.6

# 4 SETUP OF EQUIPMENT UNDER TEST 4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

# **4.2 SUPPORT EQUIPMENT**

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
PC	DELL	780MT	43ND8A00DC2		1.2M Un-shielding
MONITOR	Philips	220EW8FB/93	CJ2A0727038455	1.6M Un-Shielded	1.8M Un-Shielded
Keyboard	Unis	WN10	WN10200807005590		6M iielded
Mouse	Lenovo	M-UAE96	E-C011-05-3735(B)		6M iielded
Hard-disk	HITACHI	HTS541680J9S A00	0A28842DA15870P73		
Micro SD CARD	Kingston	1G	0907T139090	N	/A

# Remark:

All the equipment/cables were placed in the worst-case [-configuration to maximize the emission during the test.

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

# 4. 3 TEST EQUIPMENT LIST

**Instrumentation:** The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength

Instrumentation from 10 kHz to 1.0 GHz or above.

1 2 3 4 5	Test Receiver  L.I.S.N.  Coaxial Switch  Terminator	Rohde & Schwarz  Rohde & Schwarz	ESCI ENV216	100492	2012/03/14
3 4 5	Coaxial Switch		ENV216		
4 5			2.10	100093	2012/03/14
5	Terminator	Anritsu Corp	MP59B	6200283933	2012/03/14
		Hubersuhner	50Ω	No.1	2012/03/14
	RF Cable	SchwarzBeck	N/A	No.1	2012/03/14
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2012/03/14
7	Bilog Antenna	SCHWARZBECK	BBHA9120D	D69250	2012/03/14
8	Cable	Resenberger	N/A	NO.1	2012/03/14
9	Cable	SchwarzBeck	N/A	NO.2	2012/03/14
10	Cable	SchwarzBeck	N/A	NO.3	2012/03/14
11	DC Power Filter	DuoJi	DL2×30B	N/A	2012/03/14
12	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2012/03/14
13	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2012/03/14
14	Test Receiver	Rohde & Schwarz	ESCI	100492	2012/03/14
15	Absorbing Clamp	Luthi	MDS21	3635	2012/03/14
16	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2012/03/14
17	AC Power Source	Kikusui	AC40MA	LM003232	2012/03/14
18	Test Analyzer	Kikusui	KHA1000	LM003720	2012/03/14
19	Line Impendence Network	Kikusui	LIN40MA- PCR-L	LM002352	2012/03/14
20	ESD Tester	Kikusui	KES4021	LM003537	2012/03/14
21	EMCPRO System	EM Test	UCS-500-M4	V0648102026	2012/03/14
22	Signal Generator	IFR	2032	203002/100	2012/03/14
23	Amplifier	A&R	150W1000	301584	2012/03/14
24	CDN	FCC	FCC-801-M2-25	47	2012/03/14
25	CDN	FCC	FCC-801-M3-25	107	2012/03/14
26	EM Injection Clamp	FCC	F-203I-23mm	403	2012/03/14
27	RF Cable	MIYAZAKI	N/A	No.1/No.2	2012/03/14
28	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2012/03/14
29	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2012/03/14
30	Telecommunication Test Equipment	R&S	CMU200	N/A	2012/03/14
31	Loop Antenna	SCHWARZBECK	BBHA9120D	D69250	2012/03/14

**NOTE:** Equipments listed above have been calibrated and are in the period of validation.

# 5. 47 CFR PART 15B REQUIREMENTS

# **5.1 GENERAL INFORMATION**

# **EUT Test Procedure:**

- 1. Put EUT on the test table.
- 2. Power on the EUT.
- 3. Make sure the EUT operates normally during the test.

# Mode 1: Standby Mode

During the measurement, and the EUT was in charging Mode.

# Mode 2: Full load Mode

During the measurement, the lithium battery was installed, and the system of EUT was running continuously.

# Mode 3: USB Mode

During the measurement, the lithium battery was installed and connected with the notebook. And EUT and computer kept for data transmission continuously.

# Mode 4: WiFi Mode

During the measurement, the lithium battery was installed. A communication link was established between the EUT and a System Simulator.

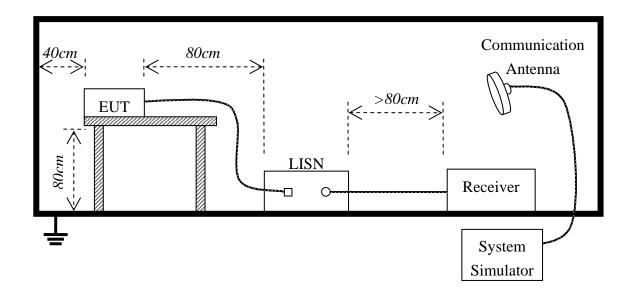
# 6. LINE CONDUCTED EMISSION TEST

# 6.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Fraguency	Maximum RF Line Voltage				
Frequency	Q.P.( dBuV)	Average( dBuV)			
150kHz-500kHz	66-56	56-46			
500kHz-5MHz	56	46			
5MHz-30MHz	60	50			

<sup>\*\*</sup>Note: 1. the lower limit shall apply at the transition frequency.

# 6.2. BLOCK DIAGRAM OF TEST SETUP



<sup>2.</sup> The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

# 6.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per FCC Part 15.
- 3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
- 4) The EUT received DC 5V by AC/DC adapter or DC 5V by USB port of the notebook which through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipments received power from a second LISN supplying power of AC 120V/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

Preliminary Conducted Emission Test									
Frequency Range In	vestigated	150KHz TO 30 MHz							
Mode of operation	Date	Report No.	Data#	Worst Mode					
Standby Mode	2011-8-30	MOST110820F1	S970-1020 _0_(L, N)						
Full Load Mode	2011-8-30	MOST110820F1	S970-1020_1_(L, N)						
USB Mode	2011-8-30	MOST110820F1	S970-1020 _2_(L, N)						
WIFI Mode	2011-8-30	MOST110820F1	S970-1020 _3_(L, N)						

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

# 6.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

EUT and support equipment was set up on the test bench as per step 9 of the preliminary test.

A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –20dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

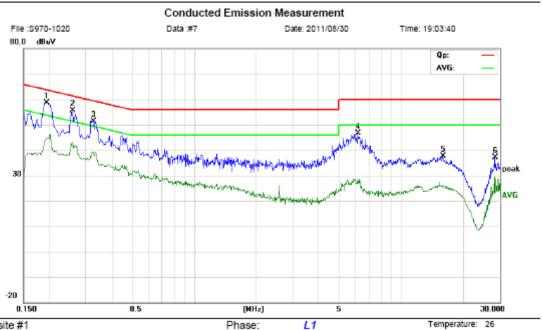
The test data of the worst case condition(s) was reported on the Summary Data page.

# 6.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310



Power: AC 120V/60Hz

Humidity: 60 %

Site site #1 Limit: FCC Part15 B Class B QP

EUT: Table M/N: S970-1020 Mode: FULL LOAD

Note:

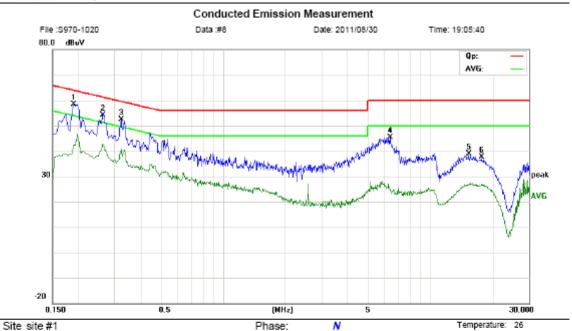
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1940	47.06	11.64	58.70	63.86	-5.16	peak	
2		0.2580	44.04	11.61	55.65	61.50	-5.85	peak	
3		0.3260	40.27	11.16	51.43	59.55	-8.12	peak	
4		6.1660	35.27	11.30	46.57	60.00	-13.43	peak	
5		15.8300	28.72	9.00	37.72	60.00	-22.28	peak	
6		28.4060	28.05	9.00	37.05	60.00	-22.95	peak	

<sup>\*:</sup>Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310



Power: AC 120V/60Hz

Humidity: 60 %

Limit: FCC Part15 B Class B QP

EUT: Table M/N: S970-1020 Mode: FULL LOAD

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1900	47.03	11.40	58.43	64.04	-5.61	peak	
2		0.2620	42.55	11.59	54.14	61.37	-7.23	peak	
3		0.3220	41.26	11.19	52.45	59.66	-7.21	peak	
4		6.3860	34.27	11.17	45.44	60.00	-14.56	peak	
5		15.3700	29.98	9.00	38.98	60.00	-21.02	peak	
6		17.7540	28.52	9.00	37.52	60.00	-22.48	peak	

<sup>\*:</sup>Maximum data x:Over limit !:over margin

# 7. RADIATED EMISSION TEST

# 7.1. LIMITS OF RADIATED DISTURBANCES AT 3M DISTANCES FOR CLASS B

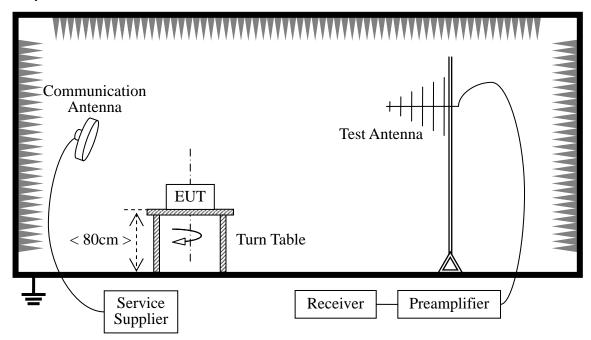
According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

# 7.2 TEST DESCRIPTION

# **Test Setup:**



The EUT received AC 120V/60Hz. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading. During the measurement, the EUT is activated and transmitting with the other WIFI device (Supply by the Applicant) during the test.

# For the Test Antenna:

- (a) In the frequency range of 9 kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- (b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

Preliminary Radiated Emission Test									
Freque	ency Range Inv	30 MHz TO 1000 MF	łz						
Mode of operation Date		Report No.	Data#	Worst Mode					
Standby Mode	2011-8-30	MOST110820F1	S970-1020 _0_(H, V)						
Full Load Mode	2011-8-30	MOST110820F1	S970-1020 _1_(H, V)	$\boxtimes$					
USB Mode	2011-8-30	MOST110820F1	S970-1020 _2_(H, V)						
WIFI Mode	2011-8-30	MOST110820F1	S970-1020 _3_(H, V)						

# 7.3 TEST RESULT

# Form 9KHz to 30MHz:

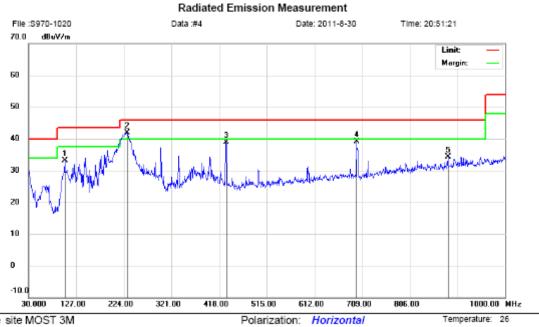
Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant./CL CF	Actual Fs		Peak Limit	AV Limit	Peak Margin	AV Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	•	(dBuV/m)	(dB)	(dB)
					(dBuV/m)	(dBuV/m)				
N/A										>20
N/A										>20

<sup>-</sup>No detected in below 30MHz.



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310



Site site MOST 3M

Limit: FCC Part15 B 3M Radiation

EUT: Table M/N: S970-1020 Mode: FULL LOAD

Note:

Power: AC 120V/60Hz

Distance:

Humidity:

61 %

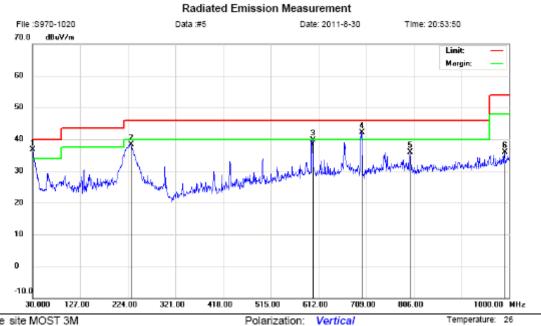
No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		103.7200	18.77	14.28	33.05	43.50	-10.45	peak			
2	×	229.8200	25.49	16.50	41.99	46.00	-4.01	peak			
3		431.5800	18.67	20.32	38.99	46.00	-7.01	peak			
4		697.3600	14.57	24.62	39.19	46.00	-6.81	peak			
5		883.6000	7.12	27.14	34.26	46.00	-11.74	peak			

<sup>\*:</sup>Maximum data x:Over limit !:over margin



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310



Site site MOST 3M

Limit: FCC Part15 B 3M Radiation

EUT: Table M/N: S970-1020 Mode: FULL LOAD

Note:

Power: AC 120V/60Hz

Distance:

Humidity:

61 %

1	lо.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
	1	*	30.0000	11.81	24.80	36.61	40.00	-3.39	peak			
	2		229.8200	21.78	16.50	38.28	46.00	-7.72	peak			
	3		599.3900	16.66	22.98	39.64	46.00	-6.36	peak			
	4	į	699.3000	17.49	24.68	42.17	46.00	-3.83	peak			
	5		799.2100	9.91	25.91	35.82	46.00	-10.18	peak			
	6		990.3000	6.80	29.08	35.88	54.00	-18.12	peak			

<sup>\*:</sup>Maximum data x:Over limit !:over margin

# Above 1 GHz

Operation Mode: Full Load Mode Test Date: August. 30, 2011

Temperature: 24°C Tested by: Petter Ping

**Humidity:** 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant./CL CF	Actual Fs		Peak Limit	AV Limit	Peak Margin	AV Margin
		(dBuV)	(dBuV)	(dB)	Peak (dBuV/m)	AV (dBuV/m)	•	(dBuV/m)	(dB)	(dB)
N/A										>20
N/A										>20

# Notes:

1. Measuring frequencies from 1 GHz to 8GHz.

- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 3. The frequency that above 3GHz is mainly from the environment noise.

# APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

CE TEST SETUP



RE TEST SETUP







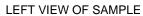
# APPENDIX 2 PHOTOGRAPHS OF EUT

# FRONT VIEW OF SAMPLE



**BACK VIEW OF SAMPLE** 







RIGHT VIEW OF SAMPLE



TOP VIEW OF SAMPLE



BOTTOM VIEW OF SAMPLE



# PHOTO OF POWER SUPPLY



PHOTO OF THE ENTIRE SAMPLE



INTERNAL PHOTO OF SAMPLE – 1



INTERNAL PHOTO OF SAMPLE -2



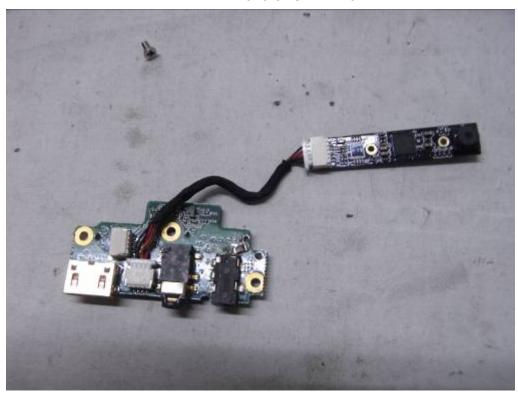


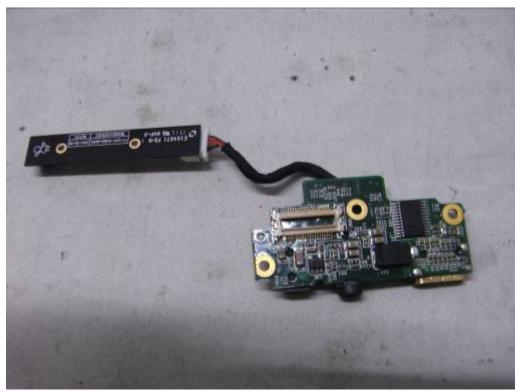
INTERNAL PHOTO OF SAMPLE -4





INTERNAL PHOTO OF SAMPLE -6



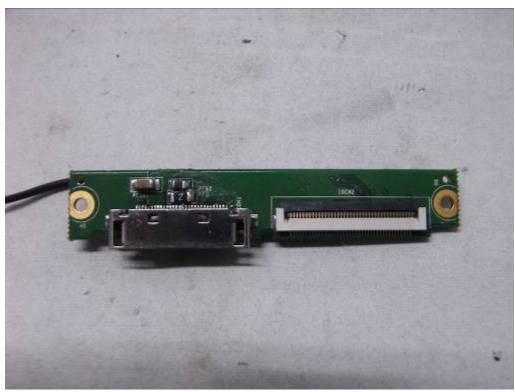


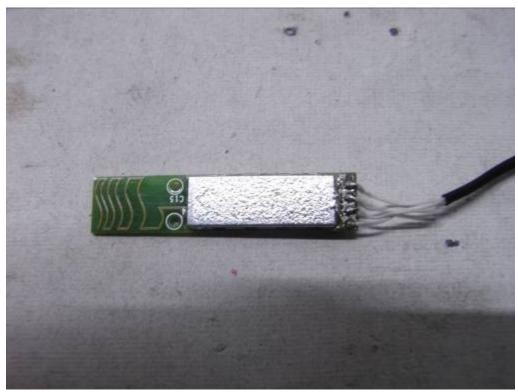
INTERNAL PHOTO OF SAMPLE -8



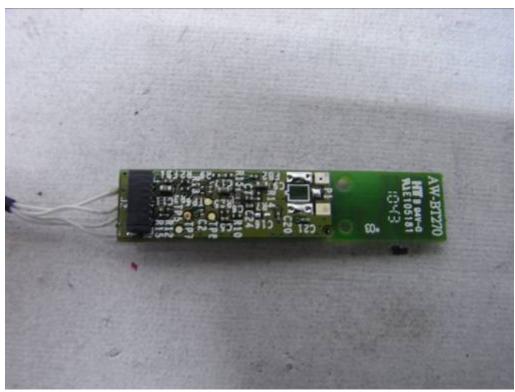


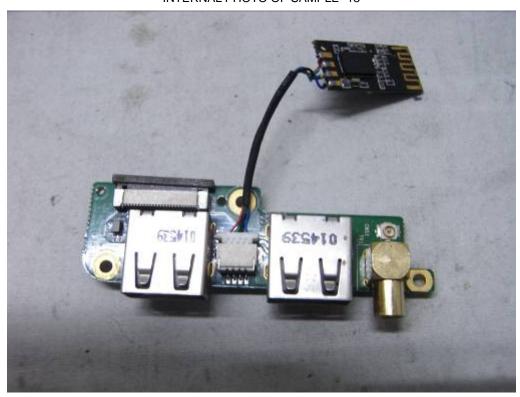
INTERNAL PHOTO OF SAMPLE -10



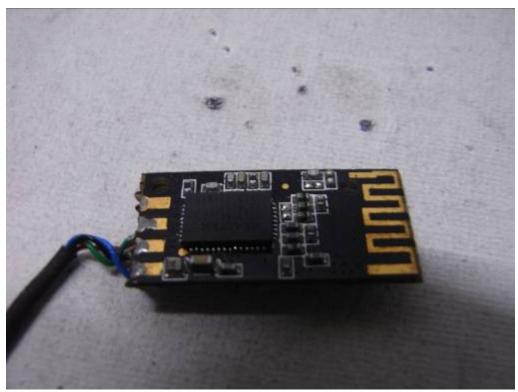


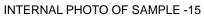
INTERNAL PHOTO OF SAMPLE -12

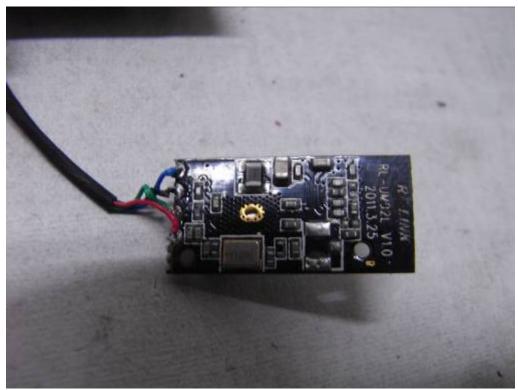




INTERNAL PHOTO OF SAMPLE -14



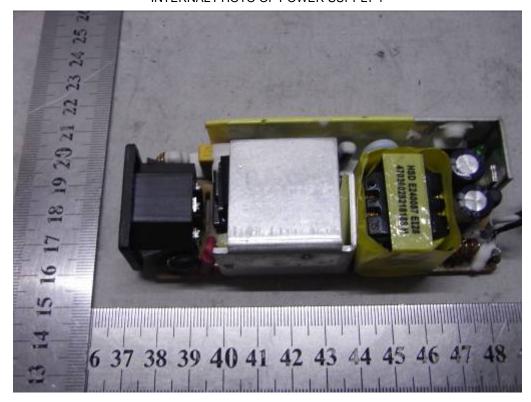




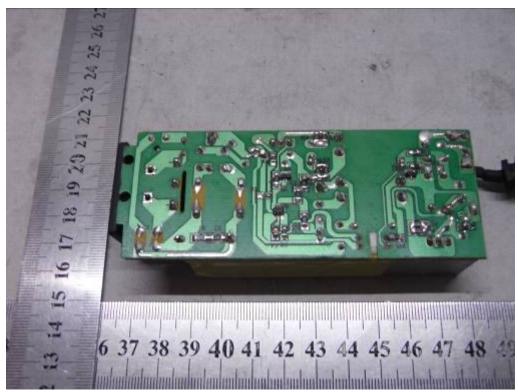
INTERNAL PHOTO OF SAMPLE -16



# INTERNAL PHOTO OF POWER SUPPLY-1



INTERNAL PHOTO OF POWER SUPPLY-2



-----END OF REPORT-----