





ISO/IEC17025Accredited Lab.

FCC 1003074-01 2010-07-30

Applicant: Shenzhen Sungworld Electronics Co., Ltd

Product: **EPC**

E700 Series Model No:

Trademark: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

It is herewith confirmed and found to comply with the Test result:

requirements set up by ANSI C63.4FCC Part 15 Subpart C, regulations evaluation Paragraph 15.247 for the of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung Manager

Dated: July 30, 2010

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen, CHINA.

> Tel (755) 83448688 Fax (755) 83442996

Report No: 1003074-01 Page 2 of 80

Date: 2010-07-30



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

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

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory 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 No.: 899988.

IC-Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.



Date: 2010-07-30



Test Report Conclusion Content

1.0	General Details	4
1.1	Test Lab Details.	4
1.2	Applicant Details.	4
1.3	Description of EUT	4
1.4	Submitted Sample	5
1.5	Test Duration.	5
1.6	Test Uncertainty.	5
1.7	Test By	5
2.0	List of Measurement Equipment.	5
3.0	Technical Details	7
3.1	Summary of Test Results	8
3.2	Test Standards	8
4.0	EUT Modification.	8
5.0	Power Line Conducted Emission Test.	9
5.1	Schematics of the Test.	9
5.2	Test Method and Test Procedure.	9
5.3	Configuration of the EUT	9
5.4	EUT Operating Condition.	10
5.5	Conducted Emission Limit.	10
5.6	Test Result.	10
6.0	Radiated Emission test	16
6.1	Test Method and Test Procedure.	16
6.2	Configuration of the EUT	16
6.3	EUT Operation Condition.	16
6.4	Radiated Emission Limit.	17
7.0	6dB Bandwidth Measurement	42
8.0	Maximum Peak Output Power	47
9.0	Power Spectral Density Measurement.	49
10.0	Out of Band Measurement.	54
11.0	Antenna Requirement.	59
12.0	Maximum Permissible Exposure	60
13.0	FCC ID Label	61
14.0	Photo of Test Setup and EUT View.	61

Report No: 1003074-01 Page 4 of 80

Date: 2010-07-30



1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-01

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Shenzhen Sinchun Electronic Co., Ltd

Address: Shenzhen Sinchun Electronic Co., Ltd/3/F,Unit5,Cuihai Industrial Zone,Fengtang

Road, Fuyong Town, Baoan District, Shenzhen, China

Telephone: 755 83957777
Fax: 755 83956777

1.3 Description of EUT

Product: EPC

Manufacturer: Shenzhen Sungworld Electronics Co., Ltd

Brand Name: N/A

Model Number: E700 Series

Power Source Adapter Model: APS-A01809020-G

Input: 100-240V~0.55A 60/50Hz ,Output: 9V, 2A

Type of Modulation IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK)

IEEE 802.11g: OFDM(64QAM, 16AQM, QPSK, BPSK)

Frequency range IEEE 802.11b/g: 2412-2462MHz

Channel Spacing IEEE 802.11b/g: 5MHz

Air Data Rate IEEE 802.11b: 11 long, 11 short, 5.5 long, 5.5 short, 2 long, 2 short, 1 long Mbps

IEEE 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps

Frequency Selection By software

Channel Number IEEE 802.11b/g: 11 Channels

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

2010-03-10 to 2010-07-26

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Report No: 1003074-01 Page 5 of 80

Date: 2010-07-30



1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB

Test Engineer 1.7

The sample tested by

Print Name: Terry Tang

Page 6 of 80

Report No: 1003074-01 Date: 2010-07-30

6.0		Test Equipm	ents				
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date		
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2009-12-05	2010-12-04		
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2009-12-05	2010-12-04		
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2009-12-05	2010-12-04		
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2009-12-05	2010-12-04		
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2009-12-05	2010-12-04		
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2010-03-29	2011-03-28		
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2010-02-17	2011-02-16		
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2010-02-17	2011-02-16		
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2010-02-17	2011-02-16		
System Controller	CT	SC100	-	2010-02-17	2011-02-16		
Printer	EPSON	РНОТО ЕХЗ	CFNH234850	2010-02-17	2011-02-16		
FM-AM Signal Generator	JUNG.JIN	SG-150M	389911177	2010-02-17	2011-02-16		
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2010-02-17	2011-02-16		
Computer	IBM	8434	1S8434KCE99 BLXLO*	-	-		
Oscillator	KENWOOD	AG-203D	3070002	2010-02-17	2011-02-16		
Spectrum Analyzer	HAMEG	HM5012	-	-	-		
Power Supply	LW	APS1502	-	-	-		
5K VA AC Power Source	California Instruments	5001iX	56060	2010-02-17	2011-02-16		
CDN	EM TEST	CDN M2/M3	-	2010-02-17	2011-02-16		
Attenuation	EM TEST	ATT6/75	-	2010-02-17	2011-02-16		
Resistance	EM TEST	R100	-	2010-02-17	2011-02-16		
Electromagnetic Injection Clamp	LITTHI	EM101	35708	2010-02-17	2011-02-16		
Inductive Components	EM TEST	MC2630	-	2010-02-17	2011-02-16		
Antenna	EM TEST	MS100	-	2010-02-17	2011-02-16		

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Page 7 of 80

Report No: 1003074-01 Date: 2010-07-30

	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		<i>r</i>		
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2010-02-17	2011-02-16
Power Amplifier	AR	150W1000	300999	2010-02-17	2011-02-16
Field probe	Holaday	HI-6005	105152	2010-02-17	2011-02-16
Bilog Antenna	Chase	CBL6111C	2576	2010-02-17	2011-02-16
Loop Antenna	EMCO	6502	00042960	2010-02-17	2011-02-16
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2010-02-17	2011-02-16
3m OATS			N/A	2010-02-17	2011-02-16
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2009-08-15	2010-08-14
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2010-07-03	2011-07-02
Power meter	Anritsu	ML2487A	6K00003613	2010-02-17	2011-02-16
Power sensor	Anritsu	MA2491A	32263	2010-02-17	2011-02-16
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2010-05-14	2011-05-13
LISN	AFJ	LS16C	10010947251	2010-5-14	2011-05-13
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2010-5-14	2011-05-13
9*6*6 Anechoic			N/A	2010-5-14	2011-05-13

Report No: 1003074-01 Page 8 of 80

Date: 2010-07-30



3. DESCRIPTION OF TEST MODES

IEEE 802.11b, 802.11g mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

IEEE 802.11b mode: 1Mbps data rate (worst case) were chosen for full testing. IEEE 802.11g mode: 6Mbps data rate (worst case) were chosen for full testing.

The worst-case data rates are determined according to the description above, based on the investigations by measuring the PSD and average power across all the data rates, bandwidths, modulations and spatial stream modes.

Date: 2010-07-30



3.0 Technical Details

3.1 Summary of test results

	The EUT has been	i tested acco	rding to the	following	specifications:
--	------------------	---------------	--------------	-----------	-----------------

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	PASS	Complies

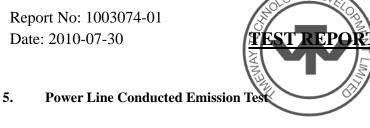
3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

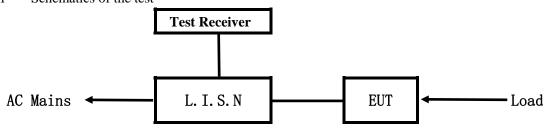
4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

Page 10 of 80



5.1 Schematics of the test

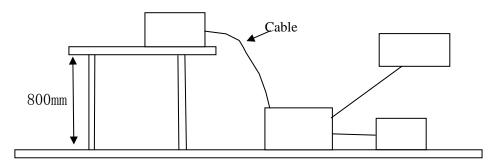


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 -2003. Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

EUT A.

Device	Manufacturer	Model	FCC ID
EPC	Shenzhen Sungworld Electronics Co., Ltd	E700 Series	WI3SW-E700X

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

The report refers only to the sample tested and does not apply to the bulk.

Report No: 1003074-01 Page 11 of 80

Date: 2010-07-30



C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207 and 15.107

Frequen	су	Class A Lim	its (dB μ V)	Class B Limits (dB µ V)			
(MHz))	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level		
$0.15 \sim 0.5$	50	79.0	66.0	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.0$	00	73.0	60.0	56.0	46.0		
5.00 ~ 30	.00	73.0	60.0	60.0	50.0		

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: the worse cases was selected to conducted the test

Date: 2010-07-30

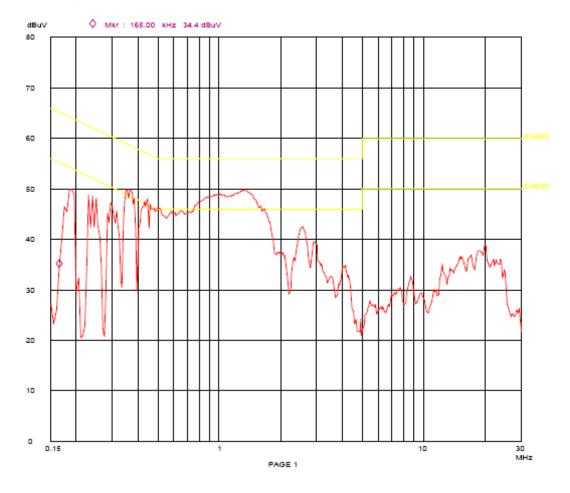
A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Read USB,SD card and Running EMC test software and Ping

wireless network

Results: Pass

Please refer to following diagram for individual



E		Reading	Limi	t		
Frequency (MHz)	Line		Neutral		(dB µ V)	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.175	46.80	34.60			64.70	54.70
0.375	46.70	35.90			58.40	48.40
3.910	28.70	24.20			56.00	46.00
16.060	31.50	22.50			60.00	50.00

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Report No: 1003074-01 Date: 2010-07-30

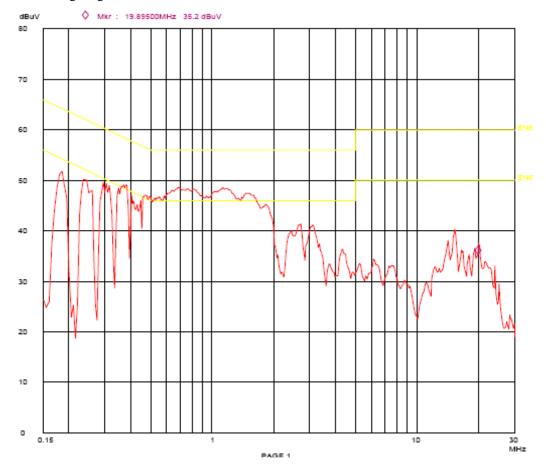
Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Read USB,SD card and Running EMC test software and Ping

wireless network

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)		Reading	Limit			
	Live		Neutral		(dB µ V)	
(IVIIIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.175			48.60	36.50	64.70	54.70
0.380			45.70	33.10	58.30	48.30
4.165			31.10	26.50	56.00	46.00
14.980			32.80	24.50	60.00	50.00

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Report No: 1003074-01 Date: 2010-07-30

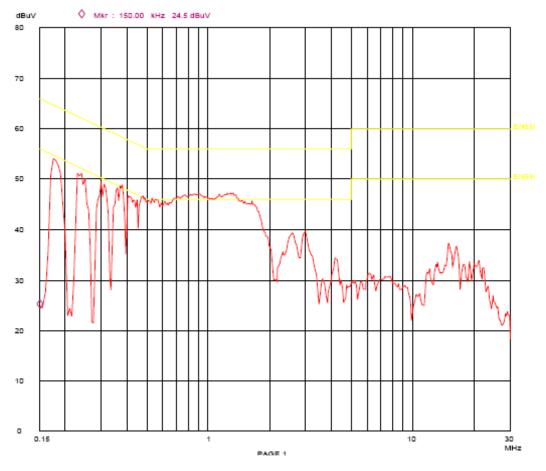
Date: 2010 07 30

Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Running notebook test program and Ping network

Results: Pass

Please refer to following diagram for individual



Engguenav		Reading(dB µ V)			Limit	
Frequency (MHz)	Line		Neutral		$(dB \mu V)$	
(MITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.190	45.00	32.9			64.00	54.00
0.240	43.4	34.6			62.10	52.10
0.365	47.4	37.2			58.60	48.60
1.325	48.5	39.0			56.00	46.00
19.805	31.1	25.7			60.00	50.00

The report refers only to the sample tested and does not apply to the bulk.

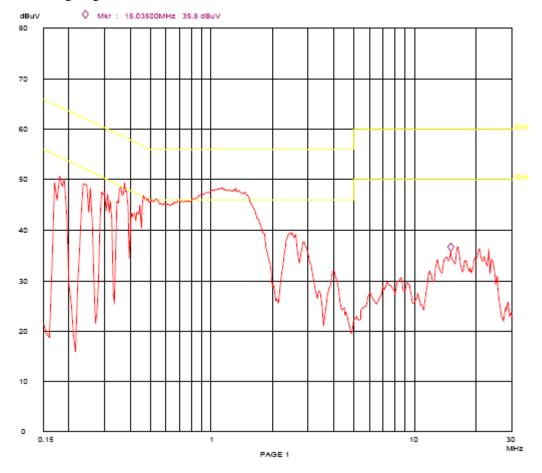
Report No: 1003074-01 Date: 2010-07-30



EUT set Condition: Running notebook test program and Ping network

Results: Pass

Please refer to following diagram for individual



Eraguanav		Reading(dB \(\mu \)			Limit	
Frequency (MHz)	Live		Neutral		$(dB \mu V)$	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.180			47.60	40.30	64.50	54.50
0.245			47.00	39.40	61.90	51.90
0.380			47.90	35.10	58.30	48.30
1.160			46.60	36.70	56.00	46.00
19.950			31.10	23.50	60.00	50.00

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Report No: 1003074-01 Page 16 of 80

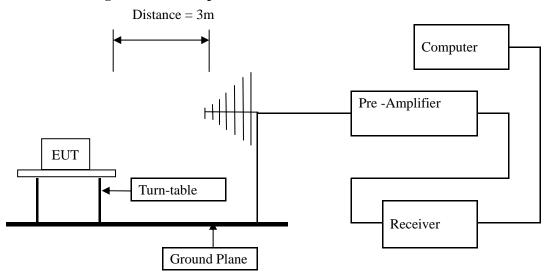
Date: 2010-07-30



6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup



- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition

 Same as section 5.4 of this report.

The report refers only to the sample tested and does not apply to the bulk.

Report No: 1003074-01 Page 17 of 80

Date: 2010-07-30



6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the higher limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

Page 18 of 80

Report No: 1003074-01

Date: 2010-07-30



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----8000MHz)

EUT set Condition: Read USB,SD card and Running EMC test software and Ping

wireless network

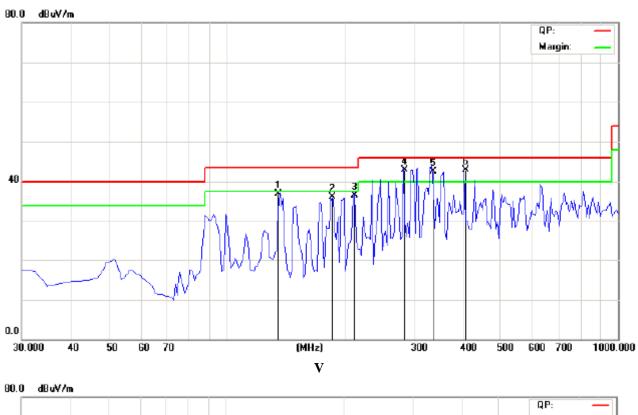
Results: Pass

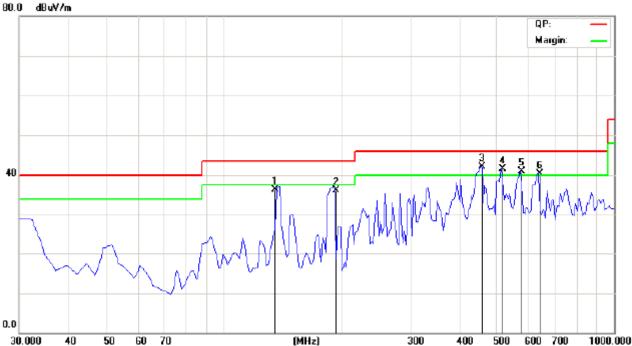
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
135.149	36.98	Н	43.50
184.314	36.02	Н	43.50
211.900	36.43	Н	43.50
284.625	42.83	Н	46.00
335.550	42.41	Н	46.00
408.300	42.98	Н	46.00
135.144	36.31	V	43.50
192.475	36.09	V	43.50
456.800	42.15	V	46.00
517.425	41.50	V	46.00
578.050	40.84	V	46.00
641.100	40.35	V	46.00

Date: 2010-07-30



Test Figure:





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Page 20 of 80

Report No: 1003074-01

Date: 2010-07-30



Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----8000MHz)

EUT set Condition: Running notebook test program and Ping network

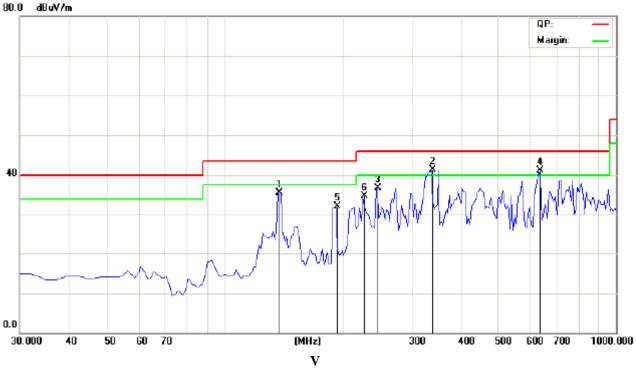
Results: Pass

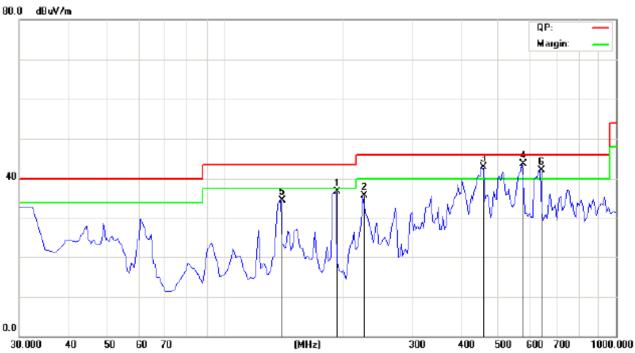
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
136.700	35.42	Н	43.50
337.975	41.22	Н	46.00
245.825	36.80	Н	46.00
638.675	41.05	Н	46.00
192.475	32.01	Н	43.50
226.425	34.80	Н	46.00
192.475	36.79	V	43.50
226.425	35.67	V	46.00
456.800	43.00	V	46.00
578.050	43.66	V	46.00
139.125	34.41	V	43.50
641.100	42.08	V	46.00

Date: 2010-07-30



Test Figure:





The report refers only to the sample tested and does not apply to the bulk.

Report No: 1003074-01 Page 22 of 80

Date: 2010-07-30



Operation Mode: Transmitting & Receiving under CH01 at 6Mbps

Frequency (MHz)	Level@3m (dB \u03bc V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
2412.00	94.8(PK) /78.5 (AV)	Н	Fundamental Frequency
2412.00	98.7(PK) /79.8 (AV)	V	Fundamental Frequency
4824.00		H/V	74(Peak)/ 54(AV)
7236.00		H/V	74(Peak)/ 54(AV)
9648.00		H/V	74(Peak)/ 54(AV)
12060		H/V	74(Peak)/ 54(AV)
14472		H/V	74(Peak)/ 54(AV)
16684		H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708		H/V	74(Peak)/ 54(AV)
24120		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode 6Mbps
- 4. Test results are for the worst case condition

Operation Mode: Transmitting & Receiving under CH06 at 6Mbps

Frequency (MHz)	Level@3m (dB \u03bc V/m)	Antenna Polarity	Limit@3m (dB \(\mu \) V/m)
2437.00	99.7 (PK) /81.8 (AV)	V	Even domental Engavenery
2437.00	95.7 (PK) /80.1 (AV)	Н	Fundamental Frequency
4874.00		H/V	74(Peak)/ 54(AV)
7311.00		H/V	74(Peak)/ 54(AV)
9748.00		H/V	74(Peak)/ 54(AV)
12185		H/V	74(Peak)/ 54(AV)
14622		H/V	74(Peak)/ 54(AV)
17059		H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode 6Mbps
- 4. Test results are for the worst case condition

The report refers only to the sample tested and does not apply to the bulk.

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Report No: 1003074-01 Page 23 of 80

Operation Mode:	Operation Mode: Transmitting & Receiving under CH11 at 6Mbps					
Frequency (MHz)	Level@3m (dB \(\mu \)V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)			
2462.00	93.4 (PK) /75.7 (AV)	Н	Fundamental Frequency			
2462.00	95.8 (PK) /81.1 (AV)	V	Fundamental Frequency			
4824	46.7 (PK) /38.2 (AV)	V	74(Peak)/ 54(AV)			
4824		Н	74(Peak)/ 54(AV)			
7368		H/V	74(Peak)/ 54(AV)			
9848		H/V	74(Peak)/ 54(AV)			
12310		H/V	74(Peak)/ 54(AV)			
14772		H/V	74(Peak)/ 54(AV)			
17234		H/V	74(Peak)/ 54(AV)			
19696		H/V	74(Peak)/ 54(AV)			
22158		H/V	74(Peak)/ 54(AV)			
24650		H/V	74(Peak)/ 54(AV)			

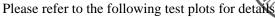
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode at 6Mbps

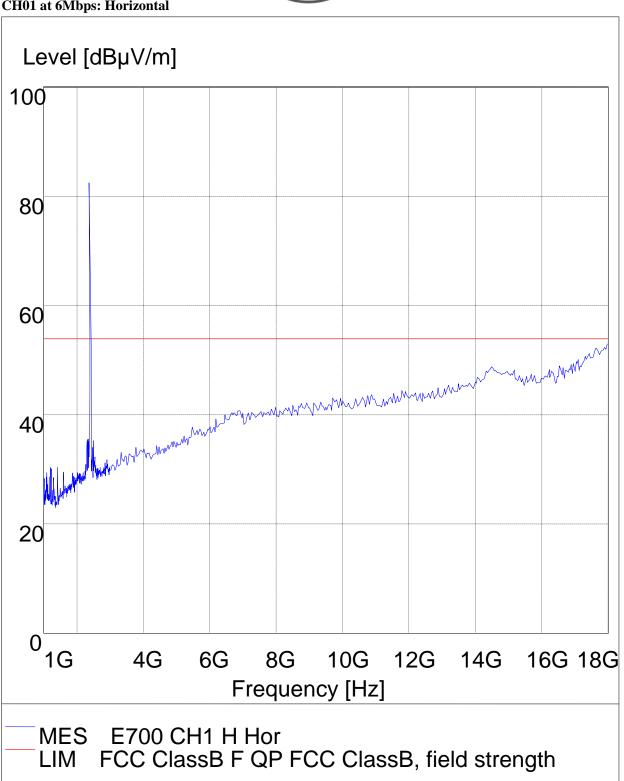
Date: 2010-07-30

4. Test results are for the worst case condition

Date: 2010-07-30



CH01 at 6Mbps: Horizontal

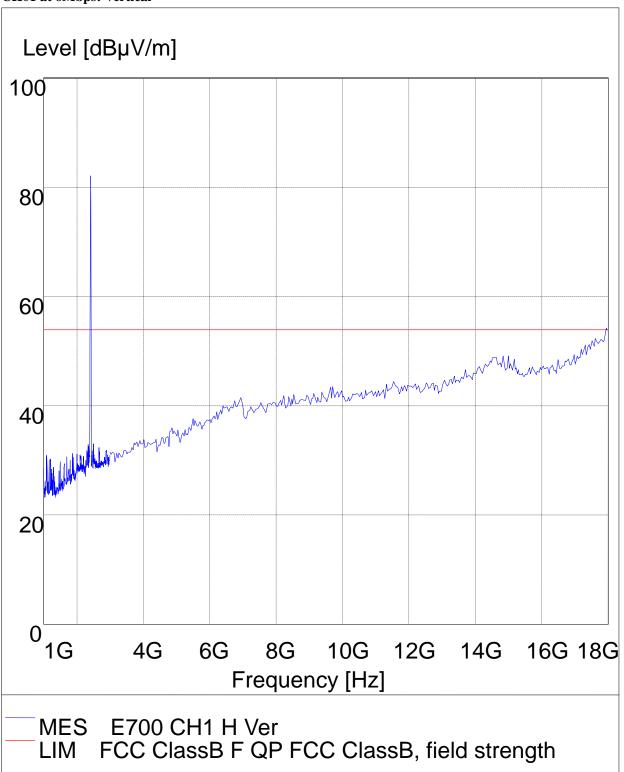


The report refers only to the sample tested and does not apply to the bulk.

Date: 2010-07-30



CH01 at 6Mbps: Vertical



The report refers only to the sample tested and does not apply to the bulk.

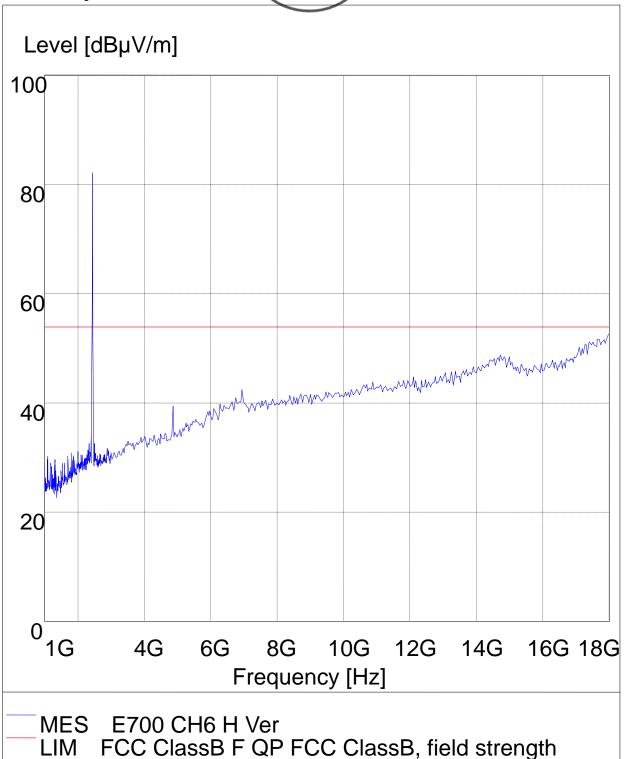
Page 26 of 80

Report No: 1003074-01

Date: 2010-07-30



CH06 at 6Mbps: Vertical



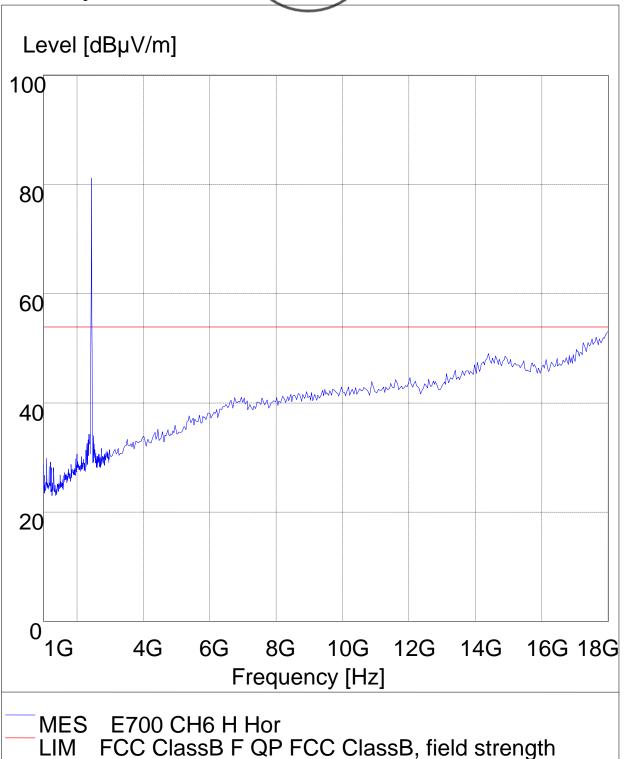
The report refers only to the sample tested and does not apply to the bulk.

Page 27 of 80

Report No: 1003074-01 Date: 2010-07-30



CH06 at 6Mbps: Horizontal



The report refers only to the sample tested and does not apply to the bulk.

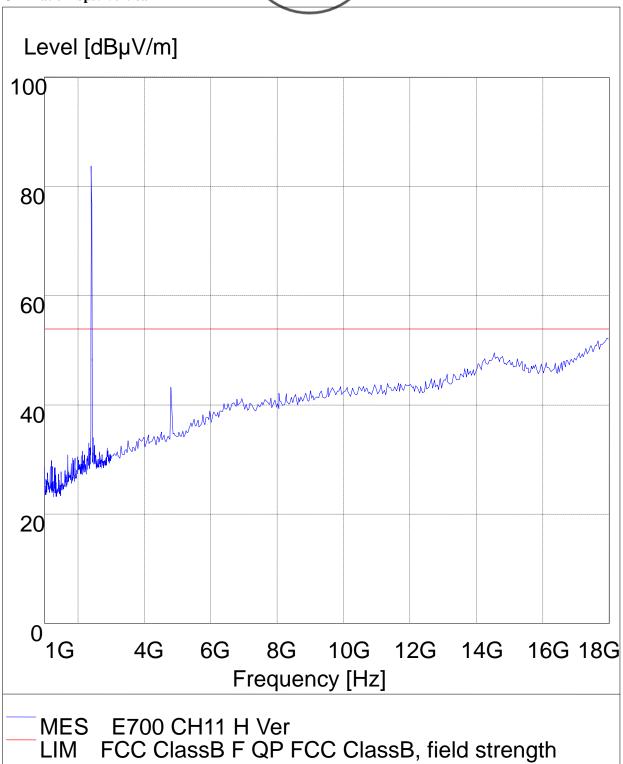
Page 28 of 80

Report No: 1003074-01

Date: 2010-07-30



CH11 at 6Mbps: Vertical



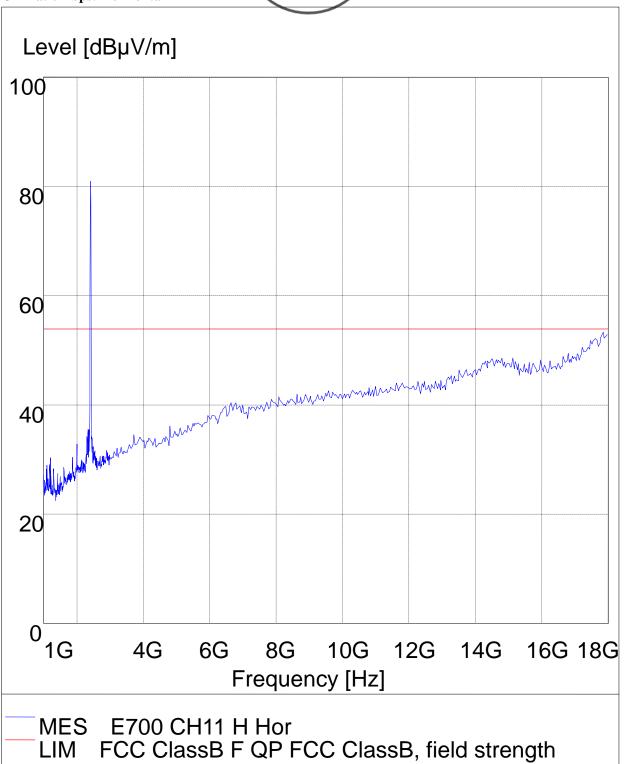
The report refers only to the sample tested and does not apply to the bulk.

Page 29 of 80

Report No: 1003074-01 Date: 2010-07-30



CH11at 6Mbps: Horizontal



The report refers only to the sample tested and does not apply to the bulk.

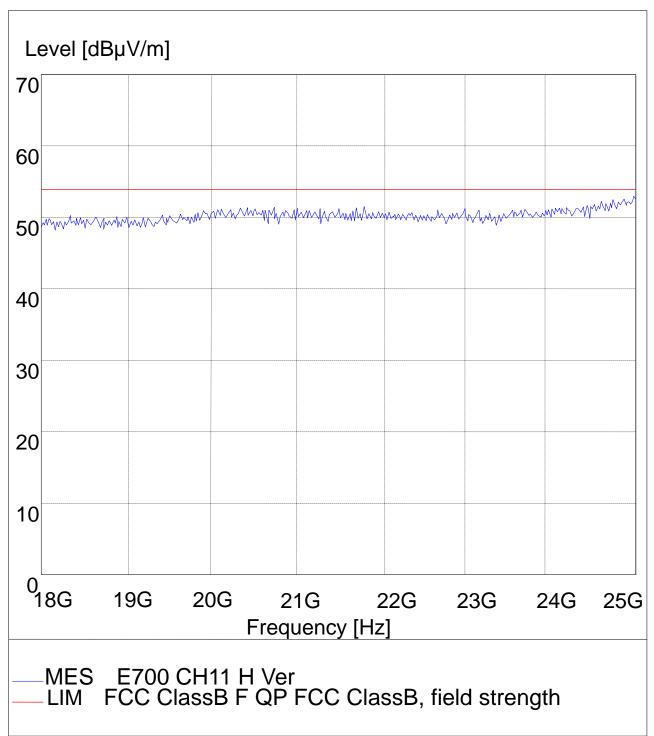
Page 30 of 80

Report No: 1003074-01

Date: 2010-07-30



18-25G CH11 6M Horizontal

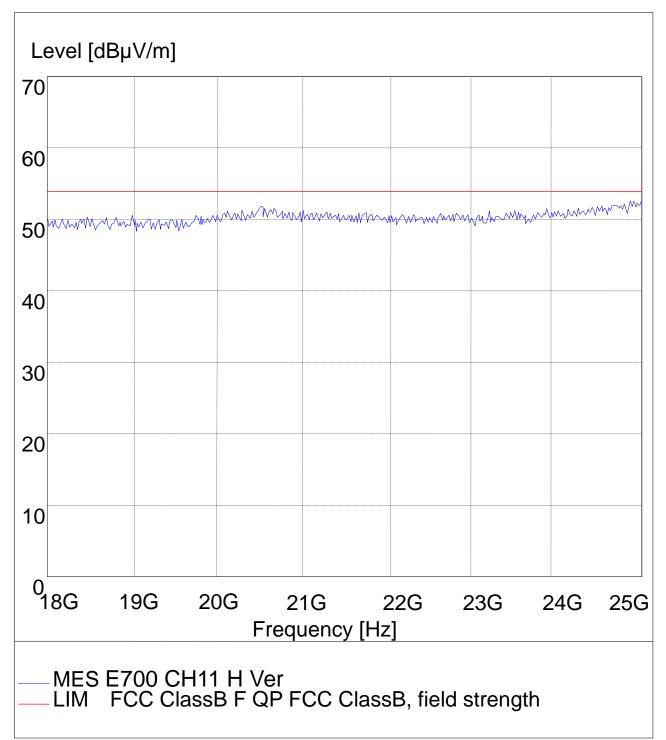


The report refers only to the sample tested and does not apply to the bulk.

Date: 2010-07-30



18-25G CH11 6M Vertical



The report refers only to the sample tested and does not apply to the bulk.

Report No: 1003074-01 Page 32 of 80

Date: 2010-07-30

Operation Mode: Transmitting & Receiving under CH01 at 1Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
2412.00	95.3 (PK)/ 79.8(AV)	Н	Fundamental Frequency
2412.00	98.7 (PK)/81.3 (AV)	V	Tundamental Mequency
4824.00	54.8 (PK)/ 41.7(AV)	Н	74(Peak)/ 54(AV)
4824.00	57.2 (PK)/ 44.1(AV)	V	74(Peak)/ 54(AV)
7236.00		H/V	74(Peak)/ 54(AV)
9648.00		H/V	74(Peak)/ 54(AV)
12060		H/V	74(Peak)/ 54(AV)
14472		H/V	74(Peak)/ 54(AV)
16684		H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708		H/V	74(Peak)/ 54(AV)
24120		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode 1Mbps
- 4. Test results are for the worst case condition

Operation Mode: Transmitting & Receiving under CH06 at 1Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
2437.00	97.8(PK)/ 81.2AV)	Н	Fundamental Frequency
2437.00	100.3(PK)/83.6 (AV)	V	Fundamental Frequency
4874.00	57.9(PK)/45.9 (AV)	V	74(Peak)/ 54(AV)
4874.00	55.7(PK)/42.6 (AV)	Н	74(Peak)/ 54(AV)
7311.00		H/V	74(Peak)/ 54(AV)
9748.00	1	H/V	74(Peak)/ 54(AV)
12185	1	H/V	74(Peak)/ 54(AV)
14622	1	H/V	74(Peak)/ 54(AV)
17059		H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode 1Mbps
- 4. test results are for the worst case condition

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Report No: 1003074-01 Page 33 of 80

Operation Mode: Transmitting & Receiving under CH11 at 1Mbps					
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)		
2462.00	99.1(PK)/82.3(AV)	Н	Fundamental Frequency		
2462.00	101.7(PK)/84.1(AV)	V	Fundamental Frequency		
4924	-	H/V	74(Peak)/ 54(AV)		
7368	-1	H/V	74(Peak)/ 54(AV)		
9848	1	H/V	74(Peak)/ 54(AV)		
12310	1	H/V	74(Peak)/ 54(AV)		
14772		H/V	74(Peak)/ 54(AV)		
17234		H/V	74(Peak)/ 54(AV)		
19696		H/V	74(Peak)/ 54(AV)		
22158		H/V	74(Peak)/ 54(AV)		
24620		H/V	74(Peak)/ 54(AV)		

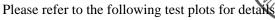
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode at 1Mbps

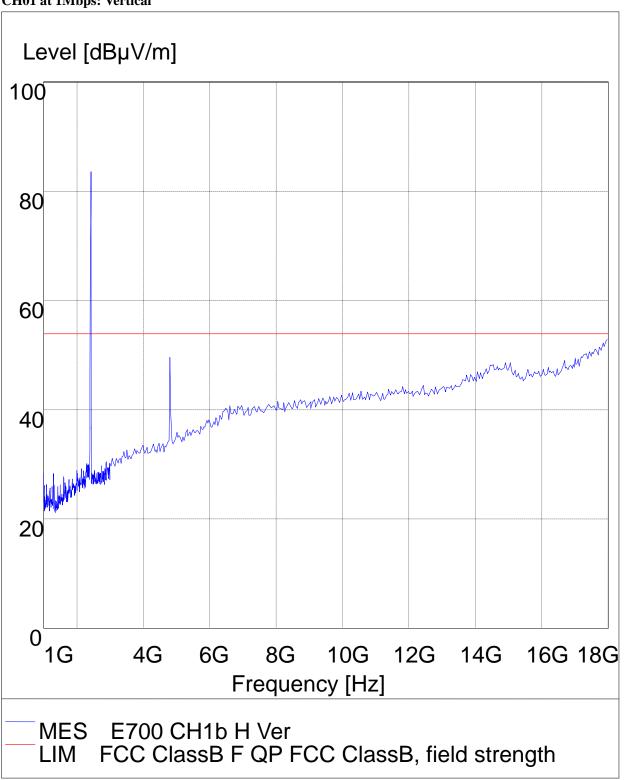
Date: 2010-07-30

4. Test results are for the worst case condition

Date: 2010-07-30



CH01 at 1Mbps: Vertical



The report refers only to the sample tested and does not apply to the bulk.

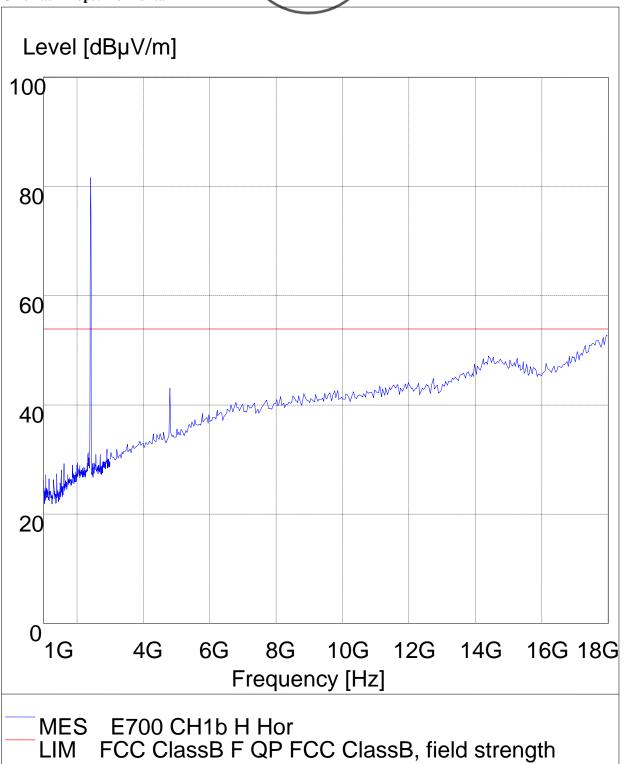
Page 35 of 80

Report No: 1003074-01

Date: 2010-07-30



CH01 at 1Mbps: Horizontal



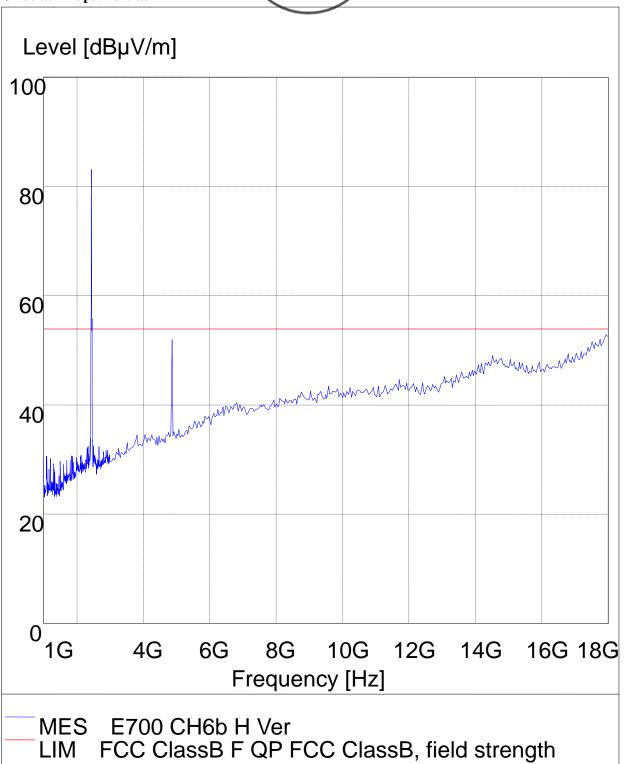
The report refers only to the sample tested and does not apply to the bulk.

Page 36 of 80

Report No: 1003074-01 Date: 2010-07-30



CH06 at 1Mbps: Vertical



The report refers only to the sample tested and does not apply to the bulk.

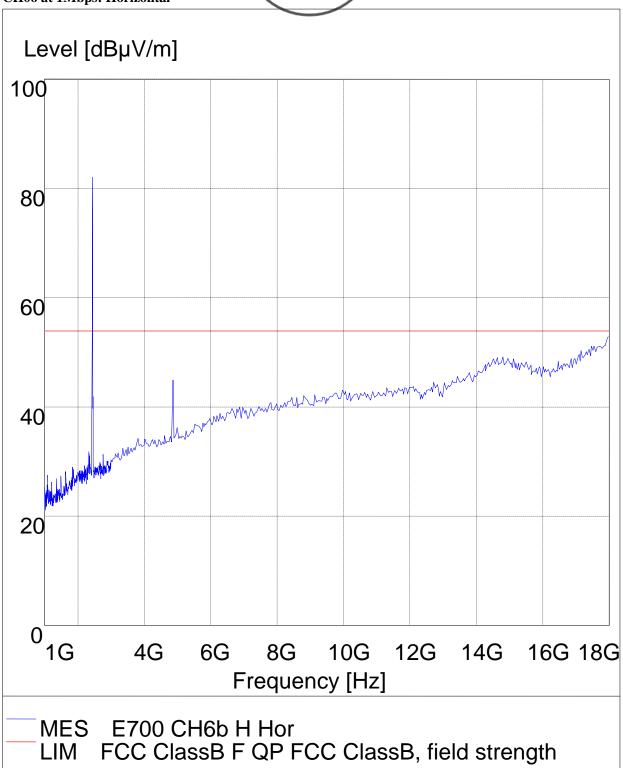
Page 37 of 80

Report No: 1003074-01

Date: 2010-07-30



CH06 at 1Mbps: Horizontal



The report refers only to the sample tested and does not apply to the bulk.

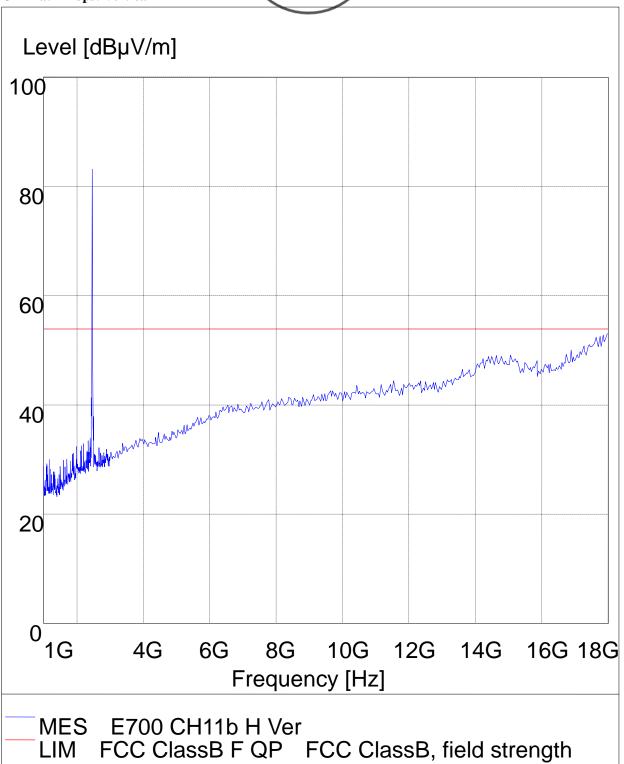
Page 38 of 80

Report No: 1003074-01

Date: 2010-07-30



CH11 at 1Mbps: Vertical



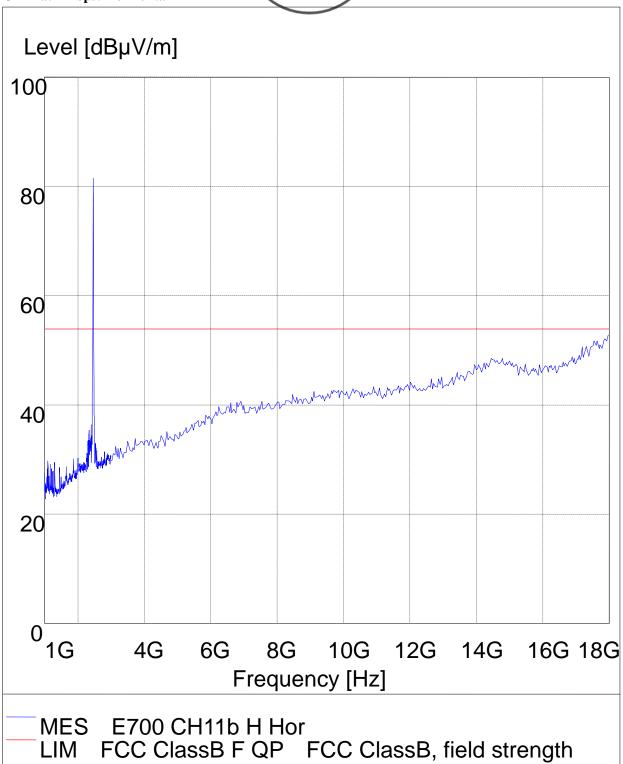
Page 39 of 80

Report No: 1003074-01

Date: 2010-07-30



CH11 at 1Mbps: Horizontal

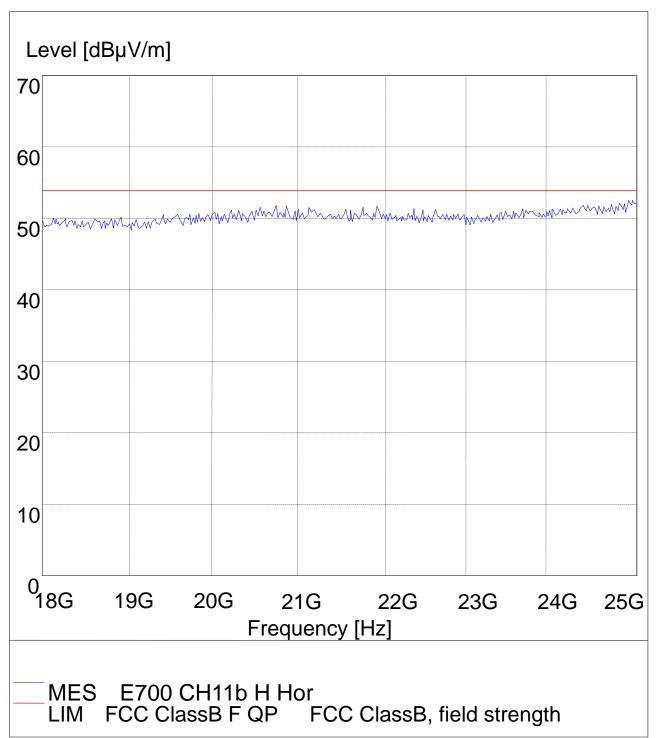


Page 40 of 80

Report No: 1003074-01 Date: 2010-07-30



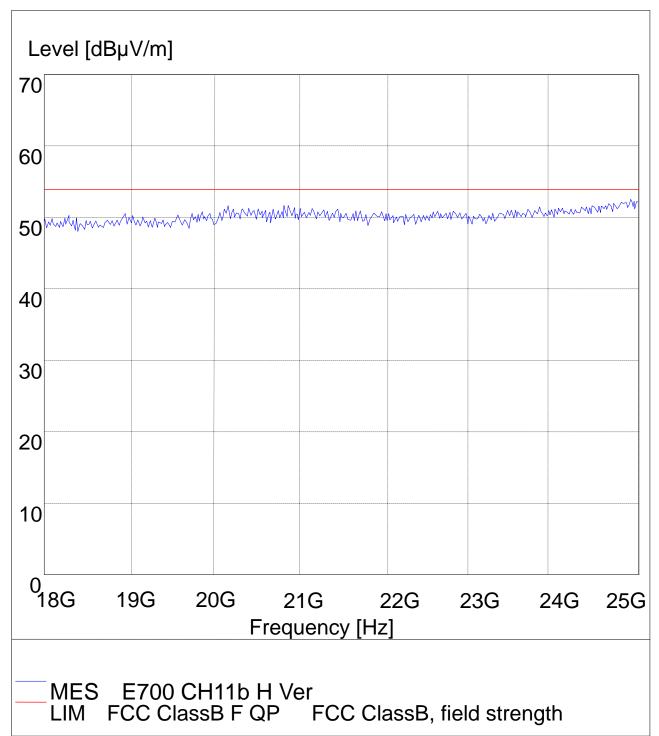
18-25G CH11 1M Horizontal



Date: 2010-07-30



18-25G CH11 1M Vertical

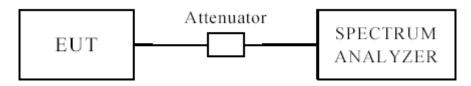


Date: 2010-07-30



7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500kHz

7.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator.

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz RBW and 100 kHz VBW for 802.11b/g mode; The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4 Test Result

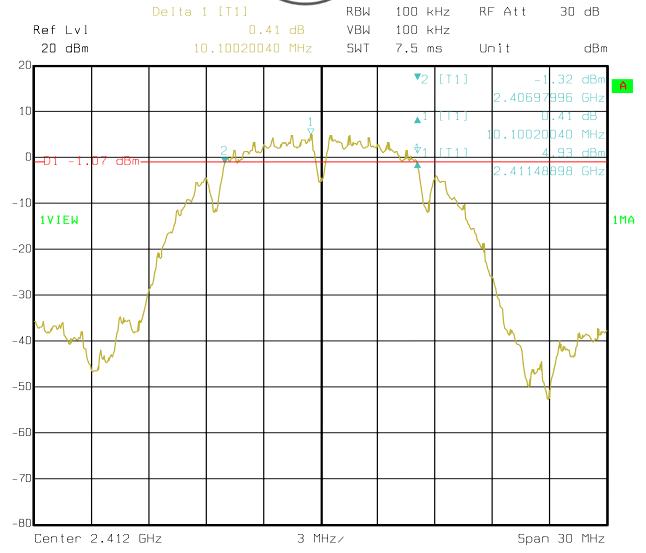
EUT		EPC		Model		E700		
Mode		8	802.11b		Input Voltage		120V~	
Temperat	ure	24	24 deg. C,		Humidity		56% I	RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		andwidth Hz)		num Limit MHz)	Pass/ Fail
1		2412	1	10).1		0.5	Pass
6		2437	1	10).1		0.5	Pass
11		2462	1	10).1		0.5	Pass

Report No: 1003074-01 Page 43 of 80

Date: 2010-07-30

1. 802.11b at 1Mbps of CH01



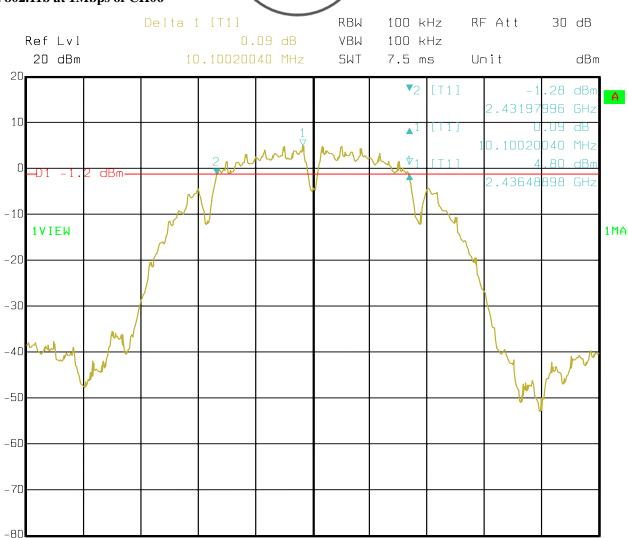


Date: 18.JUL.2010 10:19:02

Report No: 1003074-01 Page 44 of 80

Date: 2010-07-30

2. 802.11b at 1Mbps of CH06



3 MHz/

Span 30 MHz

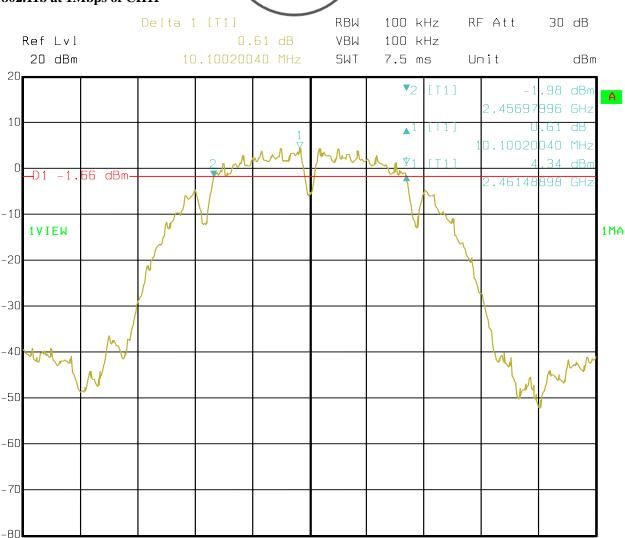
Date: 18.JUL.2010 10:20:27

Center 2.437 GHz

Report No: 1003074-01 Page 45 of 80

Date: 2010-07-30

3. 802.11b at 1Mbps of CH11



3 MHz/

Span 30 MHz

Date: 18.JUL.2010 10:21:53

Center 2.462 GHz

Report No: 1003074-01 Page 46 of 80

Date: 2010-07-30

6

11

			THE STATE OF THE PARTY OF THE P					
EUT			EPC		Model		E700	
Mode		8	802.11g		Input Voltage		120V	/~
Temperat	Temperature 24 deg. C,		4 deg. C,		Humidity		56% RH	
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		ndwidth Hz)		num Limit MHz)	Pass/ Fail
1		2412 6		16	.59		0.5	Pass

16.59

16.53

0.5

0.5

Pass

Pass

6

6

2437

2462

Page 47 of 80

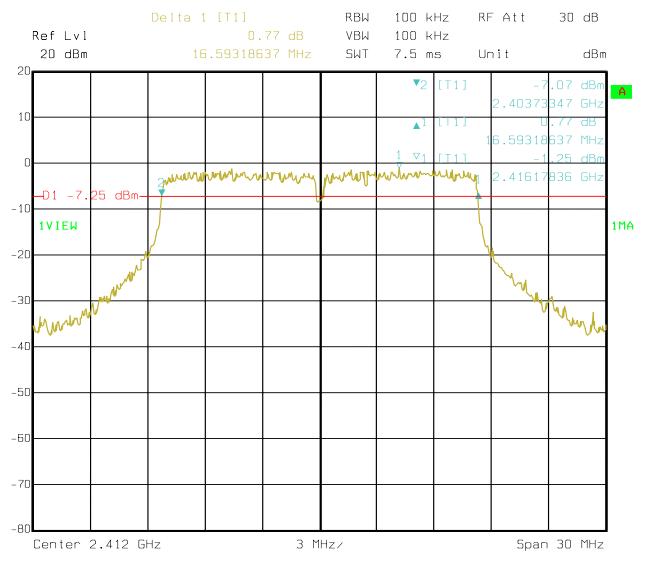
Report No: 1003074-01

Date: 2010-07-30



Test Plots:

1. 802.11g at 6Mbps of CH01

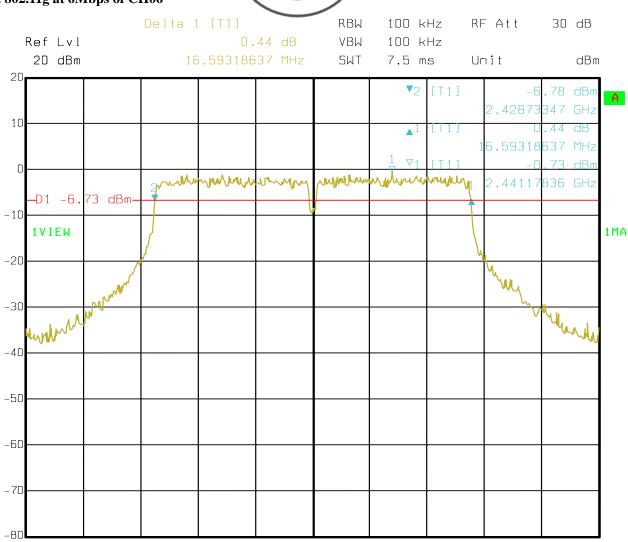


Date: 18.JUL.2010 10:23:33

Report No: 1003074-01 Page 48 of 80

Date: 2010-07-30

2. 802.11g at 6Mbps of CH06



3 MHz/

Span 30 MHz

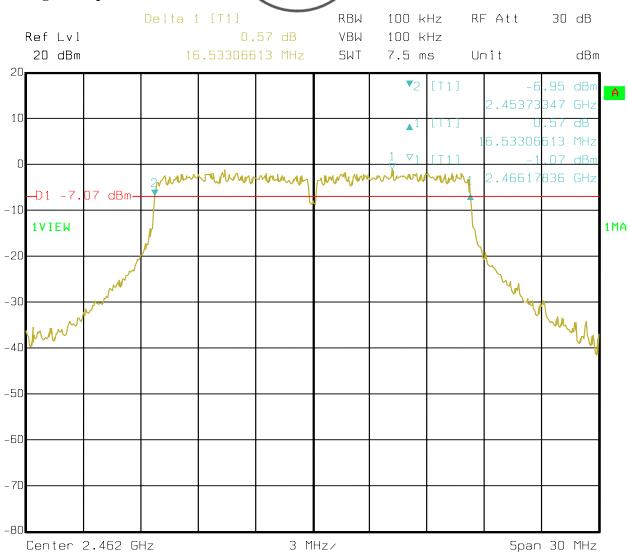
Date: 18.JUL.2010 10:24:55

Center 2.437 GHz

Report No: 1003074-01 Page 49 of 80

Date: 2010-07-30

3. 802.11g at 6Mbps of CH11



Date: 18.JUL.2010 10:26:20

Page 50 of 80

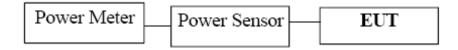
Report No: 1003074-01

Date: 2010-07-30



8. Maximum Peak Output Power

8.1 Test Setup



8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the peak power was measured

8.4Test Results

EUT		EPO	C Mo		odel	E700	
Mode	Mode 802.1		Ilb Input		Input Voltage		20V~
Temperat	Temperature 24 deg		g. C, Hun		Humidity		5% RH
Channel	Cha	annel Frequency (MHz)	Peak Power Output (dBm)		Peak P Lin (dB	nit	Pass/ Fail
1		2412	10.50		30)	Pass
6		2437	11.21		30)	Pass
11		2462	12.36		30)	Pass

Note: 1. At finial test to get the worst-case emission at 1Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

Report No: 1003074-01 Page 51 of 80

Date: 2010-07-30

EUT	UT EP		Mo		odel		E700	
Mode	Mode 802.1		Inp		Input Voltage		20V~	
Temperati	Temperature 24 deg		g. C, Hun		midity 5		66% RH	
Channel	Cha	annel Frequency (MHz)	Peak Power Output (dBm)		Peak P Lin (dB	nit	Pass/ Fail	
1		2412	10.61		30)	Pass	
6		2437	11.56		30)	Pass	
11		2462	9.78		30)	Pass	

Note: 1. At finial test to get the worst-case emission at 6Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

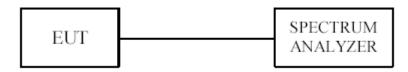
Report No: 1003074-01 Page 52 of 80

Date: 2010-07-30



9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3KHz RBW and 10kHz VBW, set sweep time=100s, **PK detector.**

The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span / 3KHz for a full response of the mixer in the spectrum analyzer.

Page 53 of 80

Report No: 1003074-01

Date: 2010-07-30



9.4Test Result

EUT		EPO	C Mo		odel		E700	
Mode	Mode 802.1		1b Input		Input Voltage		20V~	
Temperati	mperature 24 deg. C, Hu		Humidity		50	5% RH		
Channel	Cha	annel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)		Maximum Limit (dBm)		Pass/ Fail	
1		2412 -19.00			8		Pass	
6		2437 -17.16			8		Pass	
11		2462	-16.14		8		Pass	

Note: For 802.11b mode at finial test to get the worst-case emission at 1Mbps for CH11, CH06 and CH01

EUT	T EPC		C Mo		odel		E700	
Mode	Mode 802.1		1g Input		Input Voltage		20V~	
Temperati	nperature 24 deg. C, Ho		Humidity		56	5% RH		
Channel	Cha	Final RF Power Level in 3kHz BW (dBm)			Maximum Limit (dBm)		Pass/ Fail	
1		2412 -15.16			8		Pass	
6		2437 -13.72			8		Pass	
11		2462	-15.35		8		Pass	

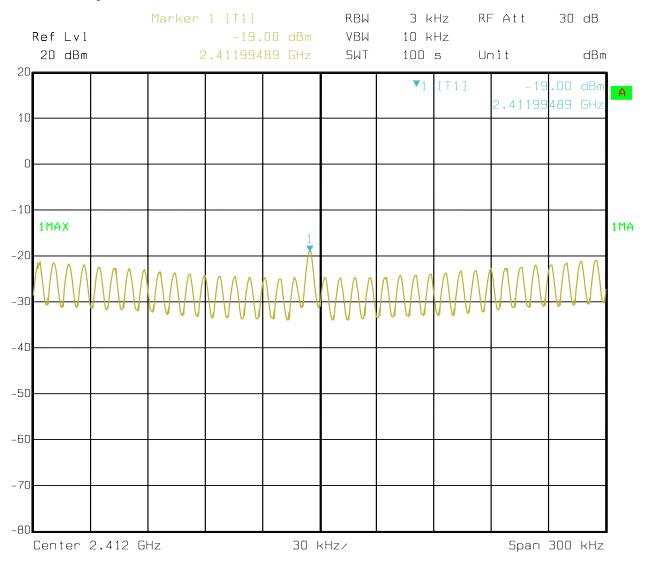
Note: For 802.11g mode at finial test to get the worst-case emission at 6Mbps for CH11, CH06 and CH01

Report No: 1003074-01 Page 54 of 80

Date: 2010-07-30

9.5 Photo of Power Spectral Density Measurement

1.802.11b at 1Mbps of CH01



Date: 18.JUL.2010 10:35:30

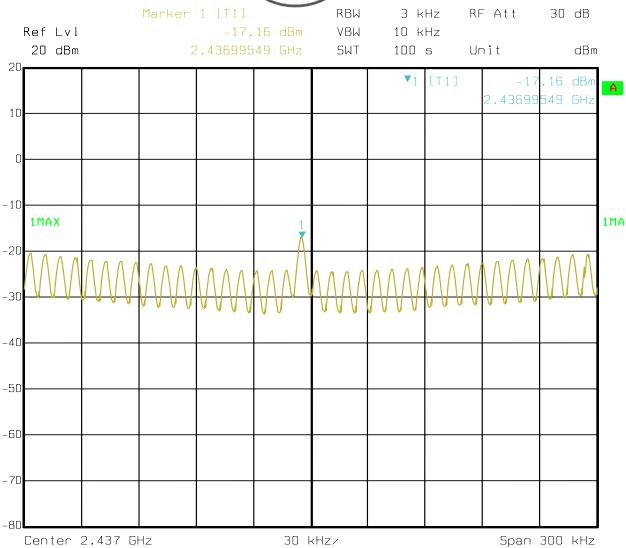
Page 55 of 80

Report No: 1003074-01

Date: 2010-07-30



2. 802.11b at 1Mbps at CH06



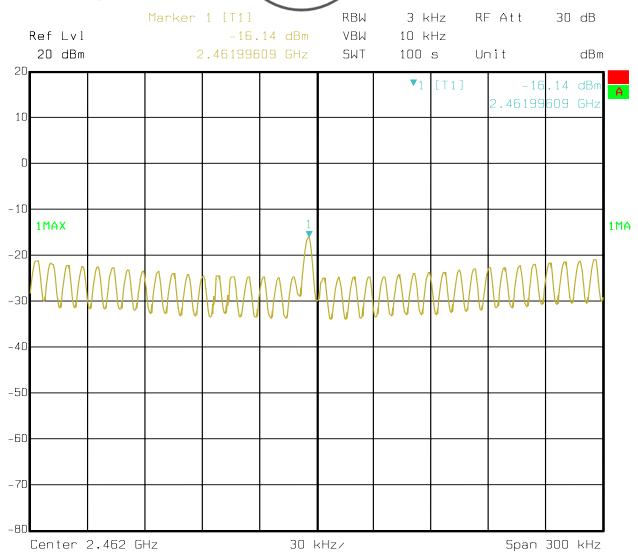
Date: 18.JUL.2010 10:38:00

Report No: 1003074-01 Page 56 of 80

Date: 2010-07-30

TEST REPORT

3. 802.11b at 1Mbps of CH11



Date: 18.JUL.2010 10:39:02

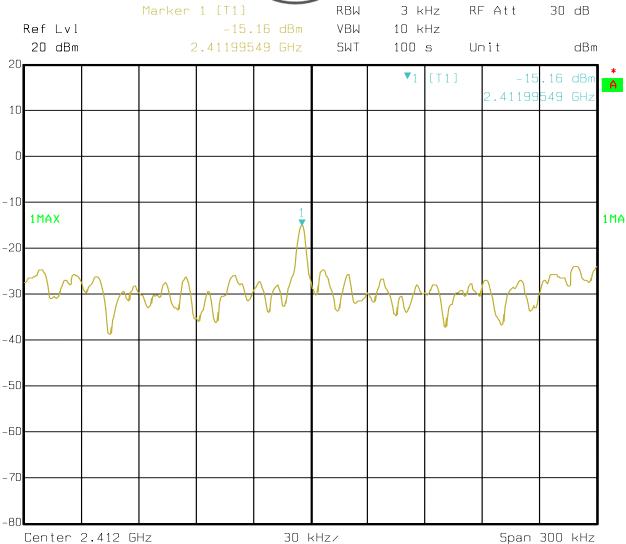
Page 57 of 80

Report No: 1003074-01

Date: 2010-07-30



4. 802.11g at 6Mbps of CH01



Date: 18.JUL.2010 10:40:07

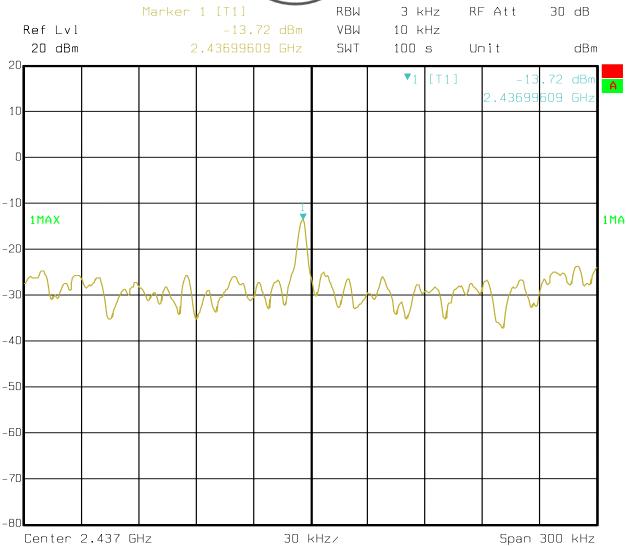
Page 58 of 80

Report No: 1003074-01

Date: 2010-07-30



5. 802.11g at 6Mbps of CH06



Date: 18.JUL.2010 10:41:08

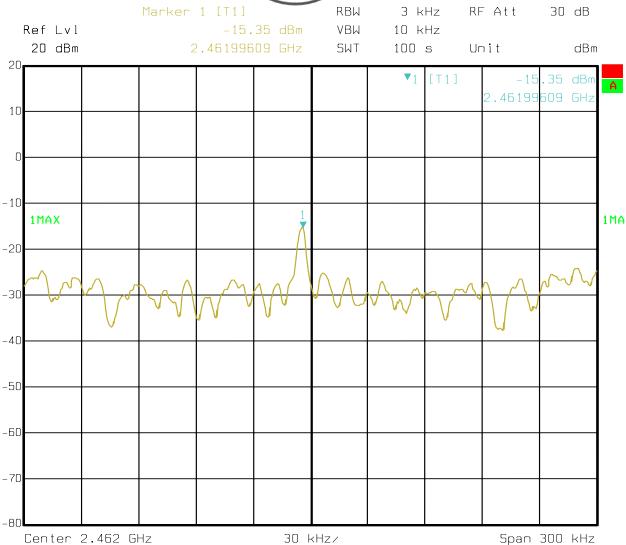
Page 59 of 80

Report No: 1003074-01

Date: 2010-07-30



6. 802.11g at 6Mbps of CH11



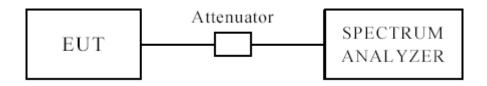
Date: 18.JUL.2010 10:42:08

Report No: 1003074-01 Page 60 of 80

Date: 2010-07-30



10 Out of Band Measurement 10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test.(Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=VBW=100 kHz. A conducted measurement used

10.4Test Result

Please see next pages

Date: 2010-07-30



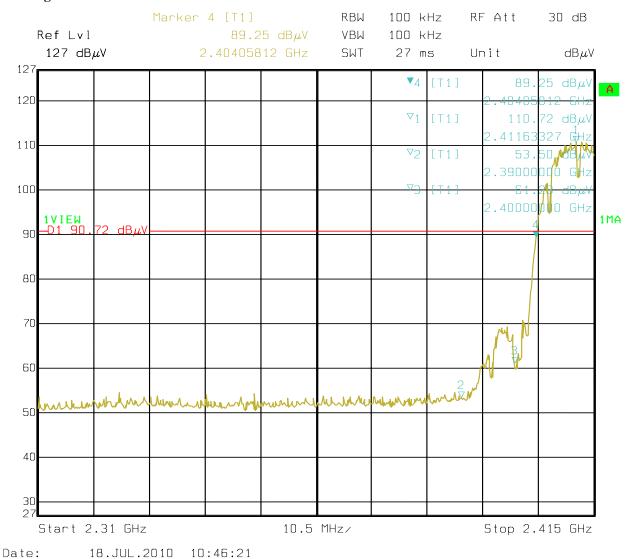
For 802.11b mode

CH01 at 1Mbps

10.4 Restricted band and bandedge Measurement

Product:		EPC	Test Mode:	CH1
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in	PK (dBµV/m)	47.18(V)/45.81(H)		$74(dB\mu V/m)$
Restrict Band 2390MHz	AV (dBμV/m)	34.78(V)/33.95(H)	Limit	54(dBµV/m)

Test Figure:



10.002.2010 10.40.21

Note: The Max. FS in Restrict Band are measured in conventional method.

The report refers only to the sample tested and does not apply to the bulk.

Page 62 of 80

Report No: 1003074-01

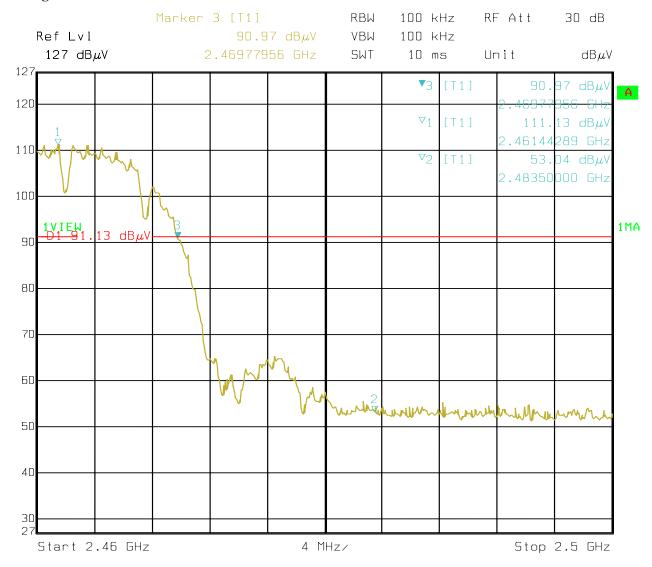
Date: 2010-07-30



10.4 Restricted band and bandedge Measurement

10.4 Resulteted stand and standedge Processionnent							
Product:	EPC		Test Mode:	CH11			
Mode	Keeping Transmitting		Input Voltage	120V~			
Temperature	24 deg. C,		Humidity	56% RH			
Test Result:	Pass		Detector	PK			
The Max. FS in	PK (dBμV/m)	49.18(V)/46.26(H)		$74(dB\mu V/m)$			
Restrict Band	AV ($dB\mu V/m$)	35.10(V)/34.62(H)	Limit	54(dPuV/m)			
2483.5MHz		33.10(v)/34.02(n)		$54(dB\mu V/m)$			

Test Figure:



Date: 18.JUL.2010 10:50:32

Note: The Max. FS in Restrict Band are measured in conventional method.

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Date: 2010-07-30



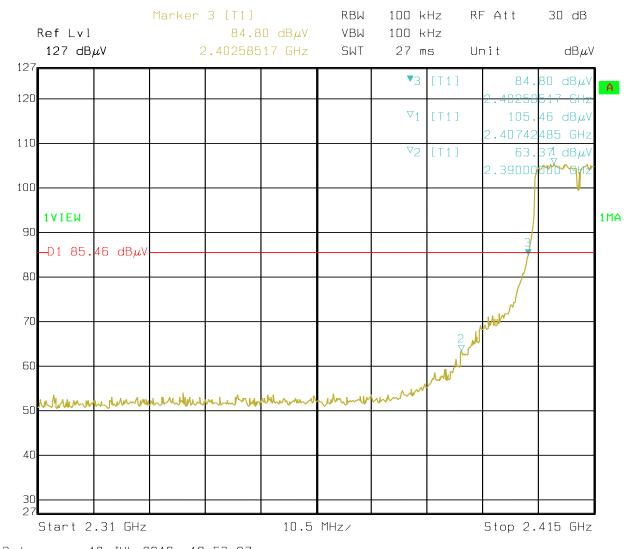
For 802.11g mode

CH01 at 6Mbps

10.4 Restricted band and bandedge Measurement

Product:]	EPC	Test Mode:	CH1
Mode	Keeping	Transmitting	Input Voltage	120V~
Temperature	24	deg. C,	Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in	PK (dBμV/m)	57.38(V)/54.29(H)		$74(dB\mu V/m)$
Restrict Band 2390MHz	AV (dBμV/m)	44.78(V)/40.81(H)	Limit	54(dBμV/m)

Test Figure:



Date: 18.JUL.2010 10:53:27

Note: The Max. FS in Restrict Band are measured in conventional method.

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Page 64 of 80

Report No: 1003074-01

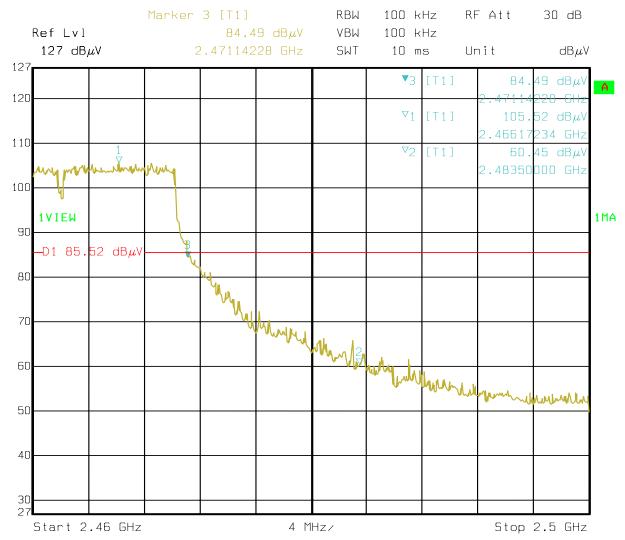
Date: 2010-07-30



10.4 Restricted band and bandedge Measurement

10.4 Restricted band and bandedge Measurement							
Product:	EPC		Test Mode:	CH11			
Mode	Keeping Transmitting		Input Voltage	120V~			
Temperature	24 deg. C,		Humidity	56% RH			
Test Result:		Pass	Detector	PK			
The Max. FS in	PK (dBμV/m)	56.73(V)/52.20(H)		$74(dB\mu V/m)$			
Restrict Band 2485.6MHz	AV (dBμV/m)	43.08(V)/40.55(H)	Limit	54(dBμV/m)			

Test Figure:



Date: 18.JUL.2010 10:58:41

Note: The Max. FS in Restrict Band are measured in conventional method.

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Report No: 1003074-01 Page 65 of 80

Date: 2010-07-30



11.0 Antenna Requirement 11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi

are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

PCB printed Antenna. The Maximum antenna gain antenna is 1.0dBi.

Report No: 1003074-01 Page 66 of 80

Date: 2010-07-30



12.0 Maximum Permissible Exposure

Applicable Standard

According to §1.1307(b)(5), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Portable device. KDB616217 was used as the guidance.

According to §1.1310 and §2.1093 RF exposure is calculated.

Measurement Result

This is a laptop and the conducted output power is 12.36dBm (17.219mW), which is lower than low threshold 60/fGHz mW (60/2.462GHz = 24.37 mW), and the antenna is 1.0dBi which is less than 6dBi.

The SAR measurement is not necessary.

Page 67 of 80

Report No: 1003074-01 Date: 2010-07-30



13.0 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 label. 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.

Mark Location:



FCC ID Label Location

Report No: 1003074-01 Date: 2010-07-30



14.0 Photo of testing **Conducted Emissions**



Radiated Emissions



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14.3 Photo for the EUT





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Page 70 of 80

Report No: 1003074-01

Date: 2010-07-30



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Page 72 of 80

Report No: 1003074-01

Date: 2010-07-30



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Page 74 of 80

Report No: 1003074-01 Date: 2010-07-30



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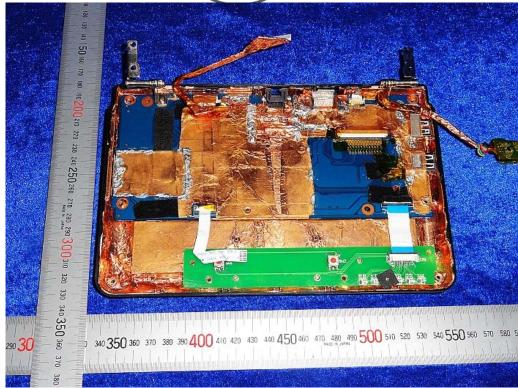
Page 75 of 80

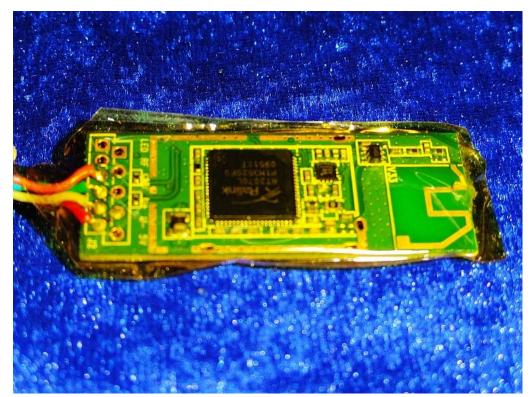
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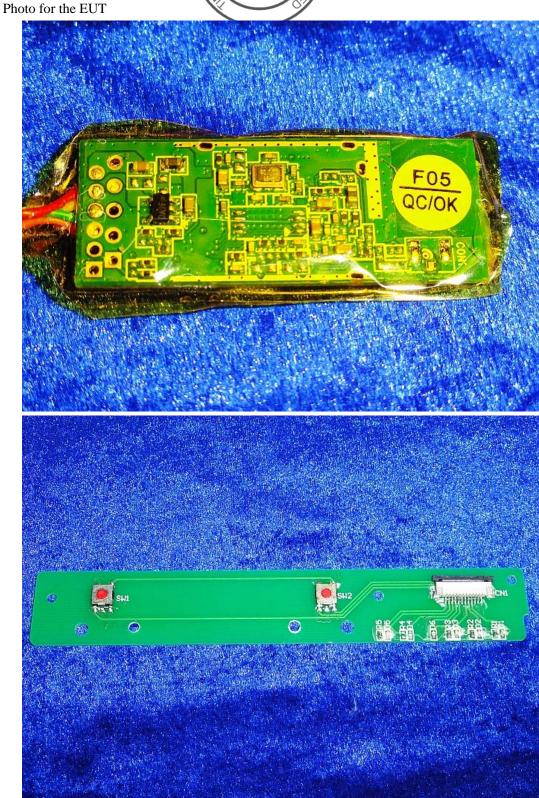
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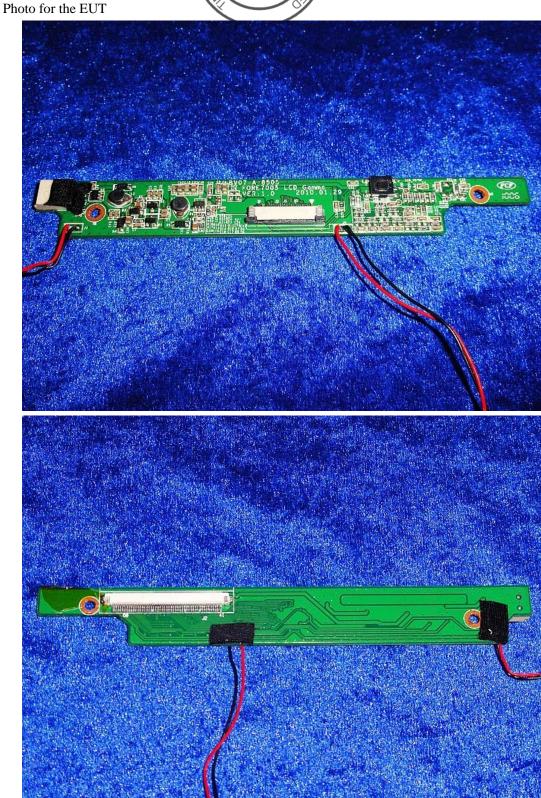
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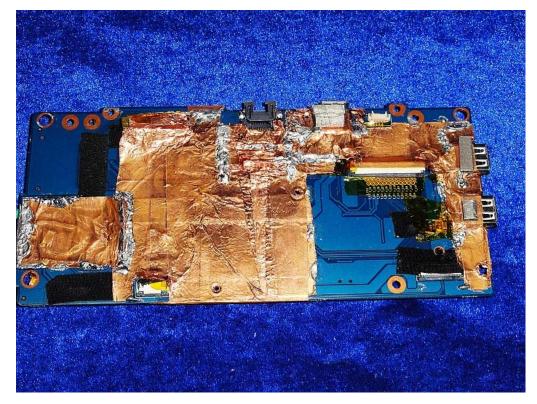
Page 78 of 80

Report No: 1003074-01 Date: 2010-07-30



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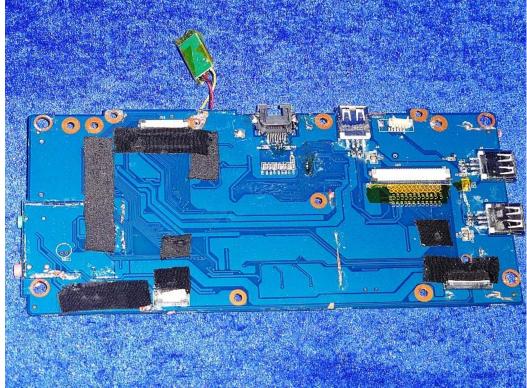
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Page 80 of 80

Report No: 1003074-01 Date: 2010-07-30



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