





ISO/IEC17025Accredited Lab.

Report No: FCC 0612039
File reference No: 2007-02-06

Applicant: Eastman Kodak Company

Product: Digital Picture Frame

Model No: EX811

Trademark: Kodak

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

Test result:

It is herewith confirmed and found to comply with the

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

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung Manager

Dated: Feb 06,2007

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

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Date: 2007-02-06



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.: IC5205

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.: 5205.

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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: 5205

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Eastman Kodak Company

Address: 343 State Street Rochester, NY 14650

Telephone: 585-781-9807 Fax: 585-781-9255

1.3 Description of EUT

Product: Digital Picture Frame

Manufacturer: Wanlida Group Co., Ltd

Brand Name: Kodak
Model Number: EX811
Additional Model Name N/A
Additional Trade Name N/A

Rating: Input: DC 9.5/12V;

Power Supply: Model: MPA-690B-12, Input: 100-240V~, 50/60Hz; Output: 12V, 3.33A

Type of Modulation DBPSK, DQPSK, CCK, OFDM

Frequency range 2412-2462MHz

Number of Channel 11

Air Data Rate 54, 48, 36, 24, 18, 12, 9, 6Mbps at 802.11g mode; 11, 5.5, 2, 1Mbps

at 802.11b mode

Frequency Selection By software

Antenna type Printed antenna on PCB

1.4 Submitted Sample

1 Sample

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

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1.5 Test Duration

2006-12-14 to 2007-02-05

1.6 Test Uncertainty

Conducted Emissions Uncertainty = $\pm 2.4 dB$ Radiated Emissions Uncertainty = $\pm 4.2 dB$

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

2.0	Test Equipments							
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date			
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2006-12-06	2007-12-05			
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2006-12-06	2007-12-05			
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2006-12-06	2007-12-05			
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2006-12-06	2007-12-05			
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2006-12-06	2007-12-05			
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2006-03-31	2007-03-30			
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2006-02-20	2007-02-19			
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2006-02-20	2007-02-19			
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2006-02-20	2007-02-19			
System Controller	CT	SC100	1	-	-			
Printer	EPSON	РНОТО ЕХЗ	CFNH234850	2006-02-20	2007-02-19			
FM-AM Signal Generator	JUNG.JIN	SG-150M	389911177	2006-02-20	2007-02-19			
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2006-02-20	2007-02-19			

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			~/		
Computer	IBM	8434	1S8434KCE99BLX LO*	-	-
Oscillator	KENWOOD	AG-203D	3070002	2006-02-24	2007-02-23
Spectrum Analyzer	HAMEG	HM5012	-	-	-
Power Supply	LW	APS1502	-	-	-
5K VA AC Power Source	California Instruments	5001iX	56060	2006-02-20	2007-02-19
CDN	EM TEST	CDN M2/M3	-	2006-02-20	2007-02-19
Attenuation	EM TEST	ATT6/75	-	2006-02-20	2007-02-19
Resistance	EM TEST	R100	-	2006-02-20	2007-02-19
Electromagnetic Injection Clamp	LITTHI	EM101	35708	2006-02-20	2007-02-19
Inductive Components	EM TEST	MC2630	-	2006-02-20	2007-02-19
Antenna	EM TEST	MS100	-	2006-02-20	2007-02-19
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2006-02-06	2007-02-05
Power Amplifier	AR	150W1000	300999	2006-02-06	2007-02-05
Field probe	Holaday	HI-6005	105152	2006-02-06	2007-02-05
Bilog Antenna	Chase	CBL6111C	2576	2006-02-06	2007-02-05
Loop Antenna	EMCO	6502	00042960	2006-02-06	2007-02-05
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2006-02-06	2007-02-05
3m OATS			N/A	2006-02-06	2007-02-05

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3.0 Technical Details

3.1 Summary of test results

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(d)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(c)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

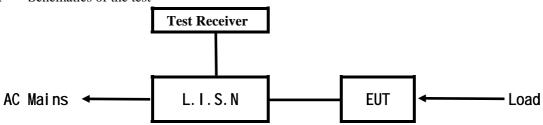
4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

Table 15.209

5. Power Line Conducted Emission Test

5.1 Schematics of the test

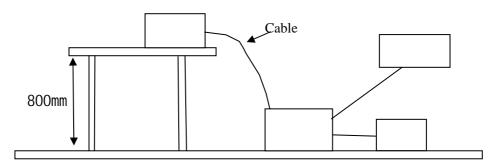


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2001. 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 –2001.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2001. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

Two channels are provided to the EUT

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

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A. EUT

Device	Manufacturer	Model	FCC ID
Digital Picture	Wanlida Group Co., Ltd	EX811	PA43874C
Frame			

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2001.

- 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

Frequency	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 ~ 0.50	79.0	66.0	66.0 ~ 56.0*	56.0 ~ 46.0*	
0.50 ~ 5.00	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.

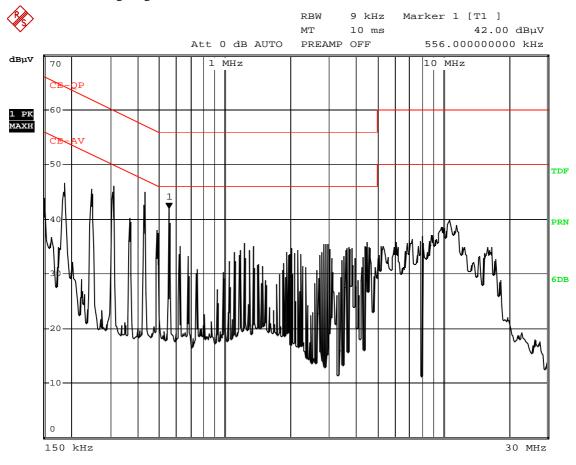
Note: the worse cases was selected to conducted the test

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

EUT set Condition: Transmitting at channel 1 under 802.11g mode at 6Mbps

Results: Pass

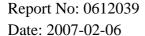
Please refer to following diagram for individual



Date: 25.JAN.2007 16:10:19

Eraguanav		Reading	Limit		t	
Frequency (MHz)	Line		Neutral		(dB μ V)	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.186	44.89	33.17			64.20	54.20
0.310	45.01	40.35			60.00	50.00
0.434	43.09	39.14			57.20	47.20
0.56	40.97	37.55			56.00	46.00
1.236	33.73	31.36			56.00	46.00

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

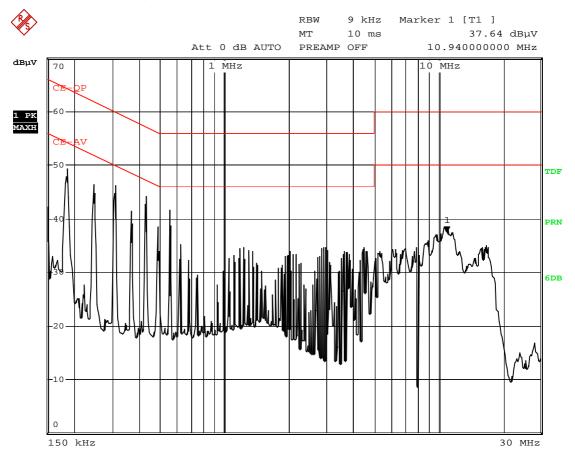


B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Transmitting at channel 1 under 802.11g mode at 6Mbps

Results: Pass

Please refer to following diagram for individual



Date: 25.JAN.2007 16:07:16

Fraguanay		Reading		Limit		
Frequency (MHz)	Live	;	Neutral		(dB μ V)	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.186			46.91	39.13	64.20	54.20
0.246			44.45	38.16	61.90	51.90
0.310			44.62	39.84	60.00	50.00
0.434			42.87	38.34	57.20	47.20
0.556			40.38	36.22	56.00	46.00

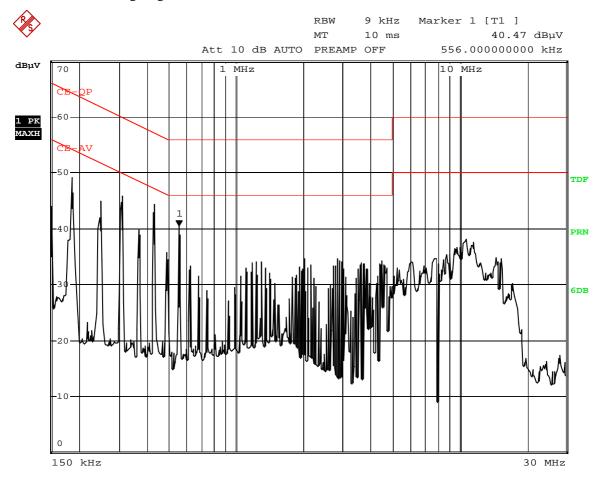
The report refers only to the sample tested and does not apply to the bulk.

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

EUT set Condition: Transmitting at channel 11 under 802.11g mode at 6Mbps

Results: Pass

Please refer to following diagram for individual



Date: 25.JAN.2007 16:16:23

Emagnaman		Reading	Limi	t		
Frequency (MHz)	Live		Neutr	Neutral		V)
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.186			46.51	39.10	64.20	54.20
0.250			42.64	36.60	61.80	51.80
0.310			44.48	39.78	60.00	50.00
0.434			43.08	38.57	57.20	47.20
0.556			40.41	35.75	56.00	46.00

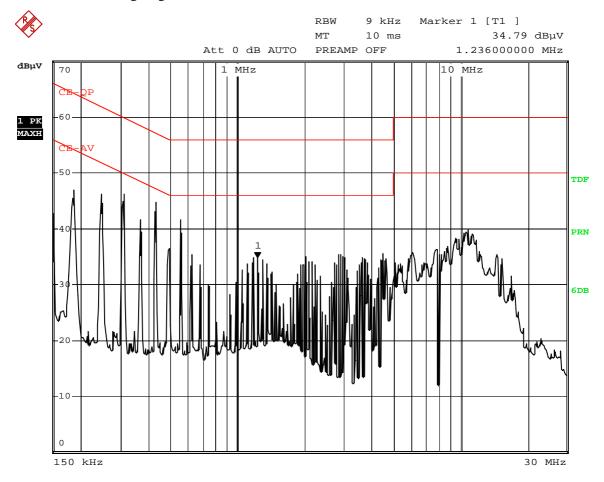
The report refers only to the sample tested and does not apply to the bulk.

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

EUT set Condition: Transmitting at channel 11 under 802.11g mode at 6Mbps

Results: Pass

Please refer to following diagram for individual



Date: 25.JAN.2007 16:13:58

Empayonary	Reading(dB \(\mu \)				Limit	
Frequency (MHz)	Line		Neutral		(dB µ V)	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.186	44.57	32.64			64.20	54.20
0.246	44.34	37.65			61.90	51.90
0.310	44.93	40.36			60.00	50.00
0.434	43.33	39.36			57.20	47.20
0.556	40.79	37.27			56.00	46.00

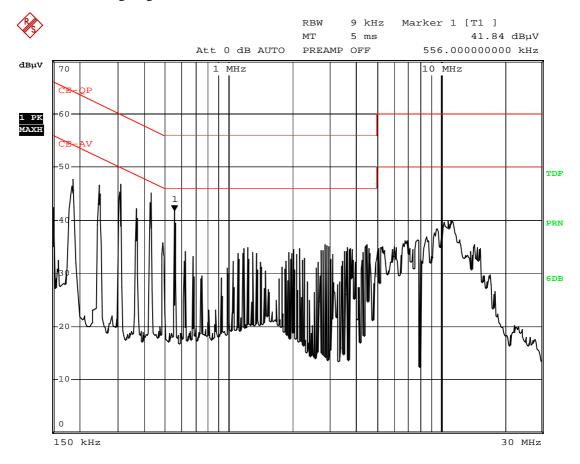
The report refers only to the sample tested and does not apply to the bulk.

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

EUT set Condition: Transmitting at channel 11 under 802.11b mode at 1Mbps

Results: Pass

Please refer to following diagram for individual



Date: 25.JAN.2007 15:58:16

Eraguanav	Reading(dB \(\mu \)				Limit	
Frequency (MHz)	Line		Neutr	al	(dB μ V)	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.186	45.74	33.49			64.20	54.20
0.246	44.74	37.65			61.90	51.90
0.310	45.25	40.55			60.00	50.00
0.434	43.74	39.86			57.20	47.20
0.556	40.85	37.31			56.00	46.00
11.188	38.46	32.71			60.00	50.00

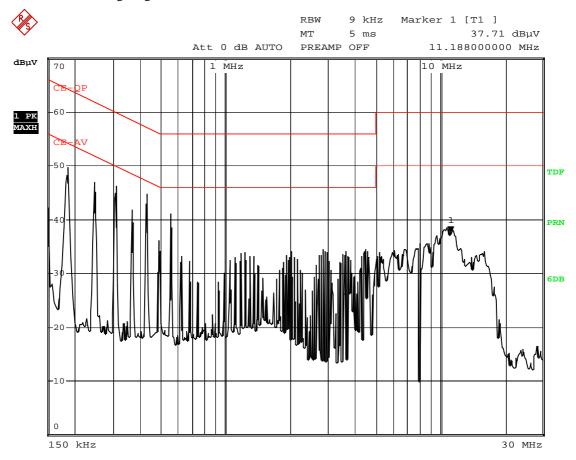
The report refers only to the sample tested and does not apply to the bulk.

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

EUT set Condition: Transmitting at channel 11 under 802.11b mode at 1Mbps

Results: Pass

Please refer to following diagram for individual



Date: 25.JAN.2007 16:01:22

Eraguanav	Reading(dB µ V)			Limit		
Frequency (MHz)	Live		Live Neutral		(dB μ V)	
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.186			46.51	39.10	64.20	54.20
0.250			42.64	36.60	61.80	51.80
0.310			44.48	39.78	60.00	50.00
0.434			43.08	38.57	57.20	47.20
0.556			40.41	35.75	56.00	46.00

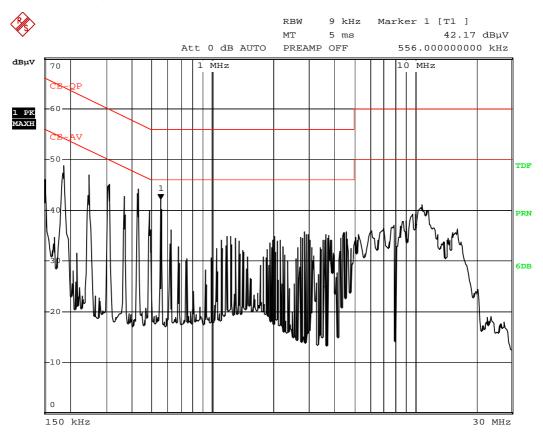
The report refers only to the sample tested and does not apply to the bulk.

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

EUT set Condition: Transmitting at channel 1 under 802.11b mode at 1Mbps

Results: Pass

Please refer to following diagram for individual



Date: 25.JAN.2007 15:49:21

Eraguanav	Reading(dB μ V)				Limit	
Frequency (MHz)	Line	;	Neutr	al	(dB μ V)	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.186	46.62	34.19			64.20	54.20
0.246	45.33	38.22			61.90	51.90
0.310	46.00	41.39			60.00	50.00
0.370	41.20	36.91			58.50	48.50
0.434	43.90	40.09			57.20	47.20
0.494	37.39	33.60			56.10	46.10
0.556	41.59	38.33			56.00	46.00

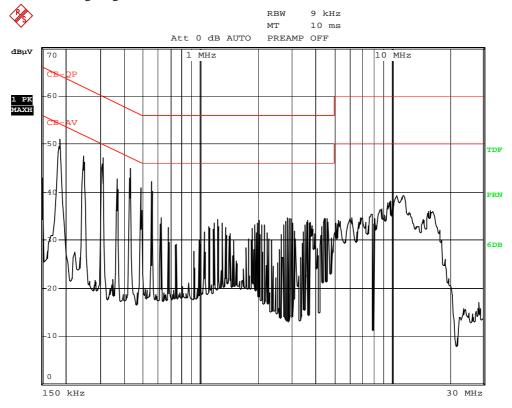
The report refers only to the sample tested and does not apply to the bulk.

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

EUT set Condition: Transmitting at channel 1 under 802.11b mode at 1Mbps

Results: Pass

Please refer to following diagram for individual



Date: 25.JAN.2007 15:44:54

Eraguanay	Reading(dB µ V)				Limit	
Frequency (MHz)	Live	;	Neutr	al	(dB µ	V)
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.186			48.61	40.07	64.20	54.20
0.246			45.58	38.96	61.90	51.90
0.310			45.73	41.00	60.00	50.00
0.370			41.11	36.50	58.50	48.50
0.434			43.83	39.51	57.20	47.20
0.494			38.11	32.28	56.10	46.10
0.556			41.24	37.23	56.00	46.00

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

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6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.4 –2001. 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 C63.4-2001.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. 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 Distance = 3m Computer Pre -Amplifier EUT Turn-table Receiver

- 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.

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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.

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

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Wireless 802.11g mode under CH11 at 6Mbps

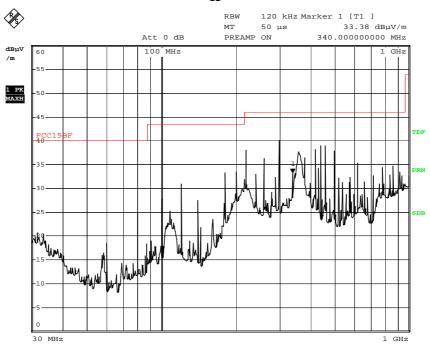
Results: Pass

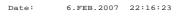
Frequency (MHz)	Level@3m (dB \mu V/m)	Antenna Polarity	Limit@3m (dB \(\mu\)V/m)
220.04	34.89	Н	46.00
299.96	33.68	Н	46.00
440.00	39.38	Н	46.00
140.00	34.50	V	43.50
432.00	39.50	V	46.00
576.04	39.24	V	46.00

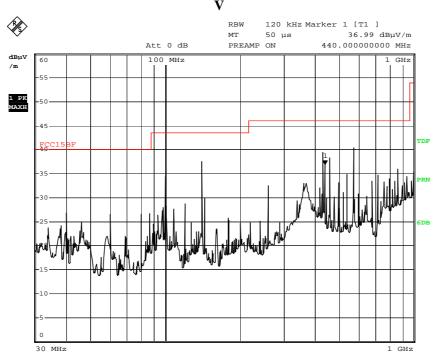


Test Figure: CH11 at 6Mbps

H







6.FEB.2007 22:20:52

Date:

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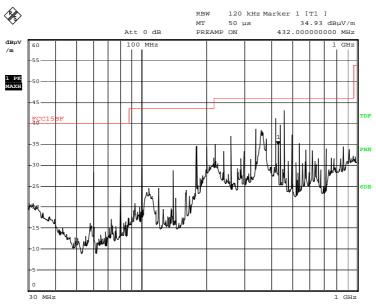
EUT set Condition: Wireless 802.11b mode under CH11 at 1Mbps

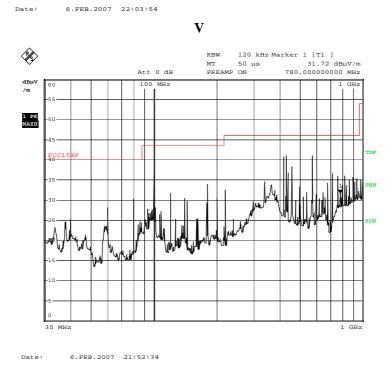
Results: Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
460.04	38.61	Н	46.00
420.04	41.23	Н	46.00
340.04	38.59	Н	46.00
99.92	31.40	V	43.50
420.04	37.78	V	46.00
432.00	39.63	V	46.00



Test Figure: CH11 at 1Mbps





Note: 1. Emission level $(dB\mu V/m)$ =Antenna Factor (dB/m) + Cable loss (dB) + Meter Reading $(dB\mu V)$.

2. According to technical experiences, all spurious emission at channel 1,6,11 are almost the same below 1GHz,so that the channel 11 was chosen as representation for the test.

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Operation Mode: Transmitting & Receiving under CH01 at 6Mbps

Frequency (MHz)	Level@3m (dB \(\mu \text{V/m} \)	Antenna Polarity	Limit@3m (dB μ V/m)
2412.00	78.96 (PK)/73.25(AV)	Н	Fundamental Frequency
2412.00	83.35 (PK) /76.79 (AV)	V	Tundamental Mequency
4824.00	40.9(Peak)/30.9 (AV)	V	74(Peak)/ 54(AV)
4824.00		Н	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

Operation Mode: Transmitting & Receiving under CH06 at 6Mbps

		•	
Frequency (MHz)	Level@3m (dB \mu V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2437.00	80.53 (PK) /76.15 (AV)	Н	Fundamental Frequency
2437.00	82.17 (PK) /78.32 (AV)	V	Tundamental Mequency
4874.00	53.9 (Peak)/ 41.9 (AV)	V	74(Peak)/ 54(AV)
4874.00		Н	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

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

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Operation Mode: Transmitting & Receiving under CH11 at 6Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2462.00	80.28 (PK) /75.63 (AV)	Н	Fundamental Frequency
2462.00	84.09 (PK) /77.36 (AV)	V	Fundamental Frequency
4924	53.2 (Peak)/ 42.0 (AV)	V	74(Peak)/ 54(AV)
4824		Н	74(Peak)/ 54(AV)
7368	50.4 (Peak)/ 38.7 (AV)	V	74(Peak)/ 54(AV)
7368		Н	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)

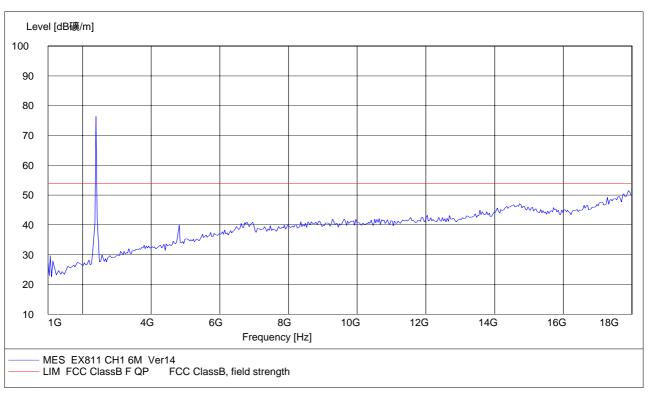
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

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

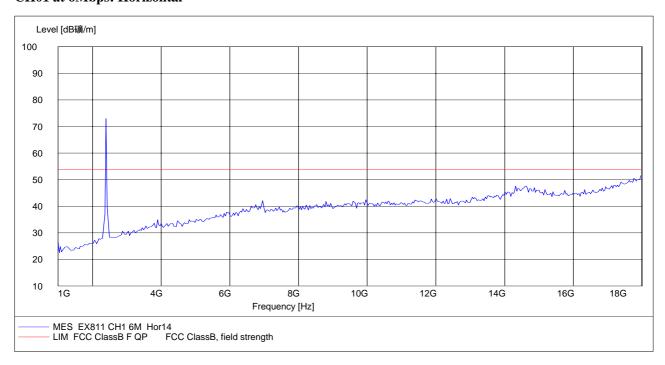


Please refer to the following test plots for details:

CH01 at 6Mbps: Vertical



CH01 at 6Mbps: Horizontal



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

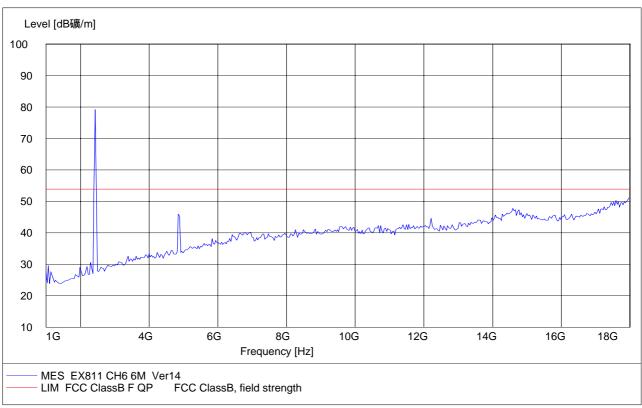
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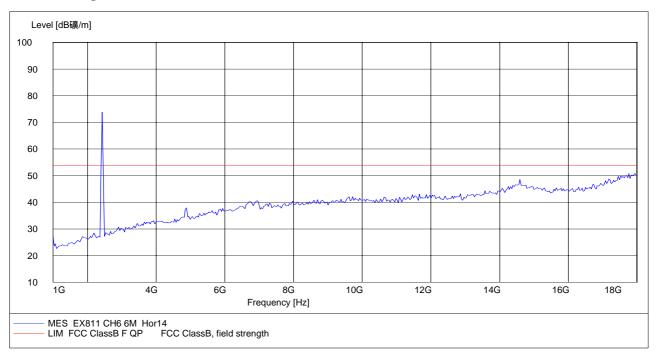
Report No: 0612039 Date: 2007-02-06



CH06 at 6Mbps: Vertical



CH06 at 6Mbps: Horizontal



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

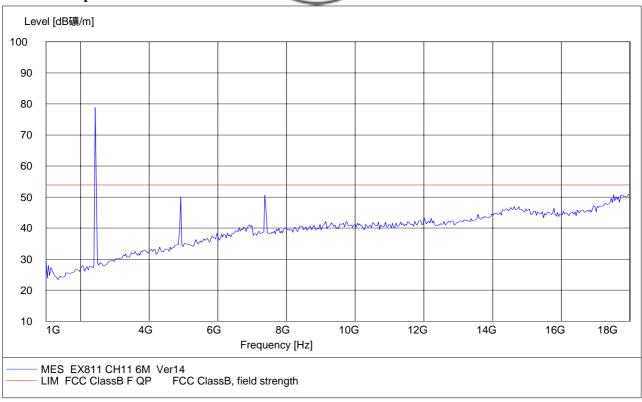
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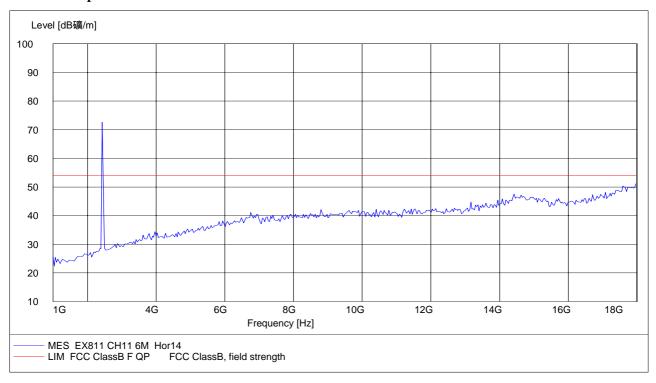
Report No: 0612039 Date: 2007-02-06



CH11 at 6Mbps: Vertical



CH11at 6Mbps: Horizontal



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Operation Mode: Transmitting & Receiving under CH01 at 1Mbps

Frequency (MHz)	Level@3m (dB \mu V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
2412.00	78.23 (PK)/ 73.83(AV)	Н	Fundamental Frequency
2412.00	82.96 (PK)/78.52 (AV)	V	rundamental 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 802.11b mode 1Mbps

Operation Mode: Transmitting & Receiving under CH06 at 1Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)	
2437.00	80.19 (PK)/ 77.36 (AV)	Н	Fundamental Fraguency	
2437.00	84.68(PK)/ 79.65 (AV)	V	Fundamental Frequency	
4874.00	50.7 (Peak)/ 39.8 (AV)	V	74(Peak)/ 54(AV)	
4874.00		Н	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	24370		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

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

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Operation Mode: Transmitting & Receiving u	under CH11 at 1Mbps
--	---------------------

operation whose transmitting at receiving ander certified in the pro-							
Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB \(\mu\) V/m)				
2462.00	81.37 (PK) /78.45AV)	Н	Fundamental Frequency				
2462.00	88.26 (PK) /86.18 (AV)	V	Fundamental Frequency				
4924	54.5 (Peak)/ 43.1 (AV)	V	74(Peak)/ 54(AV)				
4924	54.3 (Peak)/ 44.4 (AV)	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	24650		74(Peak)/ 54(AV)				

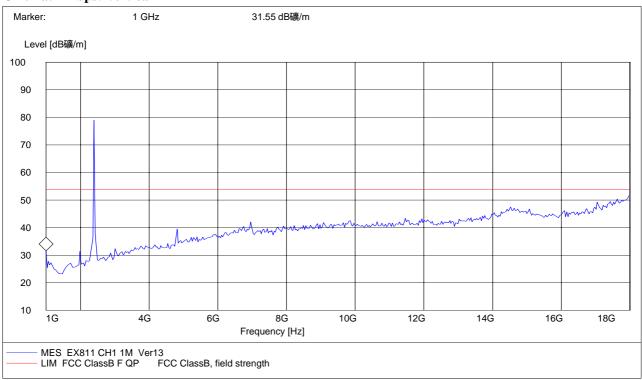
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

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

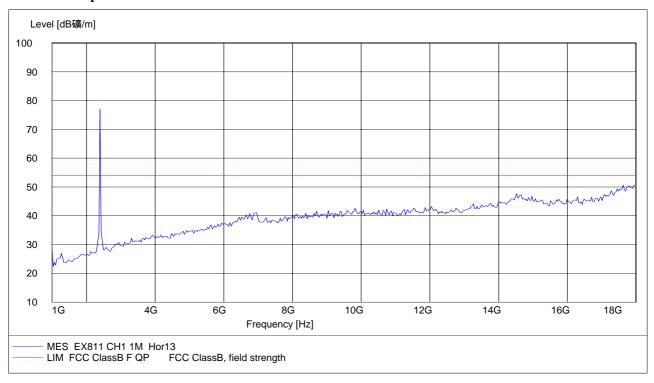


Please refer to the following test plots for details:

CH01 at 1Mbps: Vertical



CH01 at 1Mbps: Horizontal



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

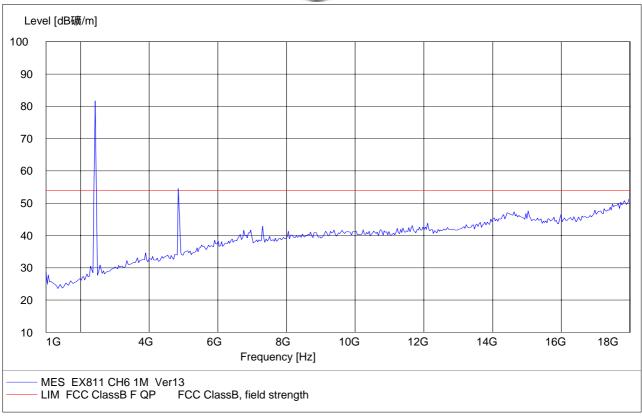
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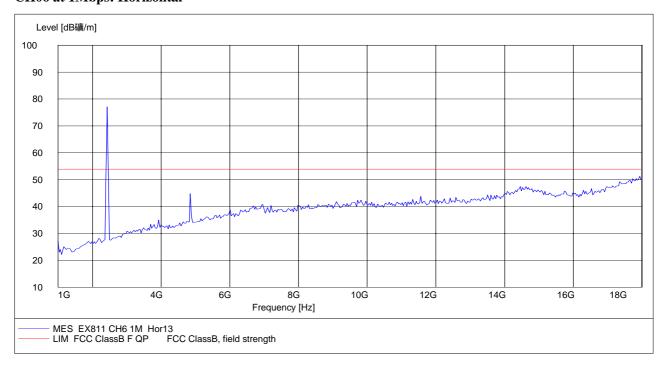
Report No: 0612039 Date: 2007-02-06



CH06 at 1Mbps: Vertical



CH06 at 1Mbps: Horizontal



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

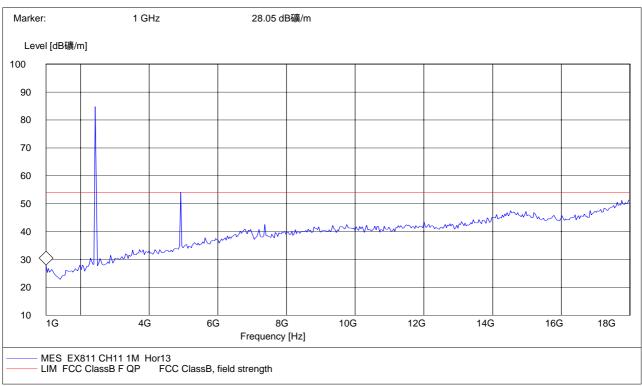
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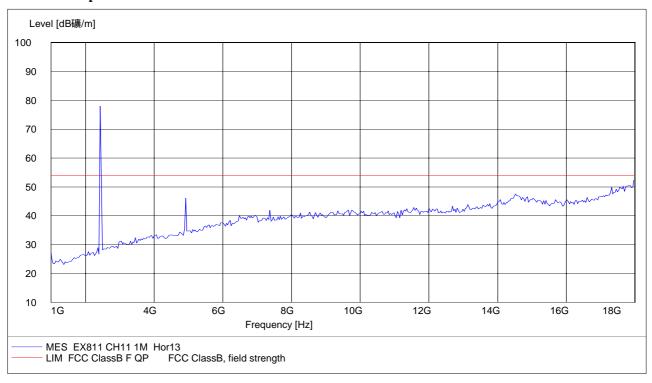
Report No: 0612039 Date: 2007-02-06



CH11 at 1Mbps: Vertical



CH11 at 1Mbps: Horizontal



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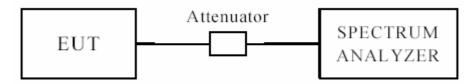
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7.0 6dB Bandwidth Measurement

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. 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		Digital Pictur	e Frame		Model		EX811	
Mode		802.11b			Input Voltage		120V~	
Temperature 24		24 deg. C,		Humidity		56% RH		
Channel		el Frequency Transfer (MHz) Rate (Mbps)			IB Bandwidth (MHz)		Minimum Limit (MHz)	
1	2412		1 11	9.48 5.20		0.5		Pass
6		2437	1 11	8.28 6.72				Pass
11		2462	1 11	8.96 7.44			0.5	Pass

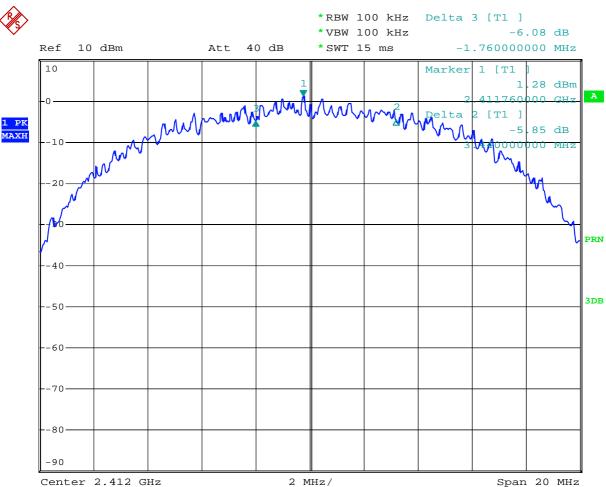
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Test Figure:

1. Condition: 802.11b at 11Mbps of CH01



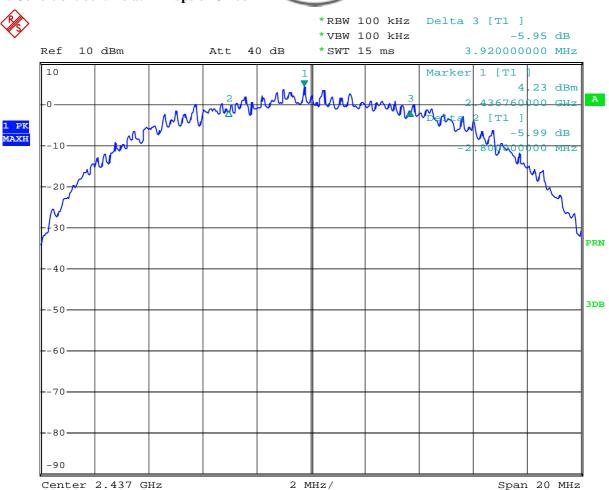
Date: 25.JAN.2007 18:47:19

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2. Condition: 802.11b at 11Mbps of CH06



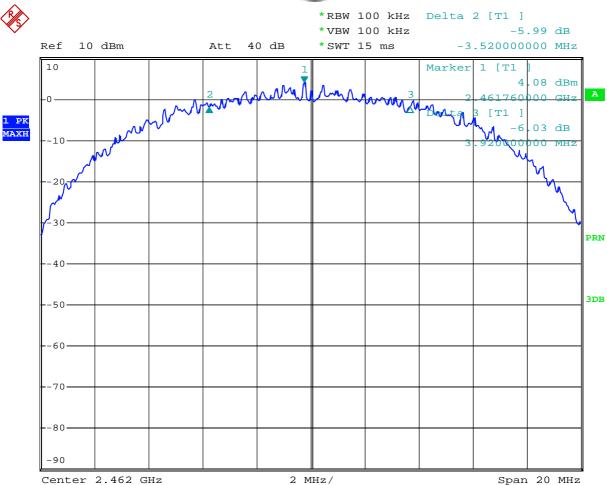
Date: 25.JAN.2007 18:45:51

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3. 802.11b at 11Mbps of CH11



Date: 25.JAN.2007 18:44:19

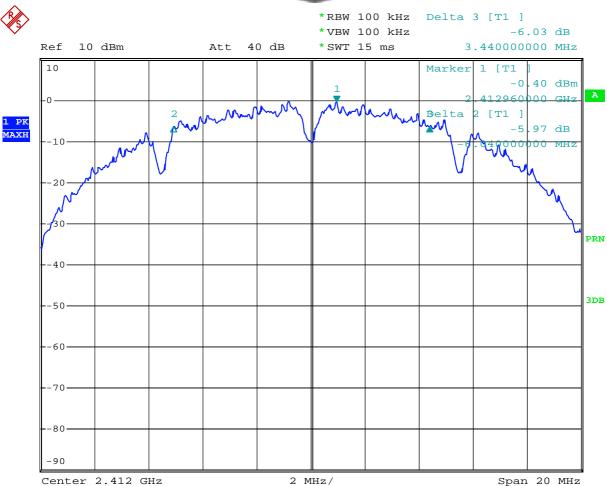
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4. 802.11b at 1Mbps of CH01





25.JAN.2007 18:37:46 Date:

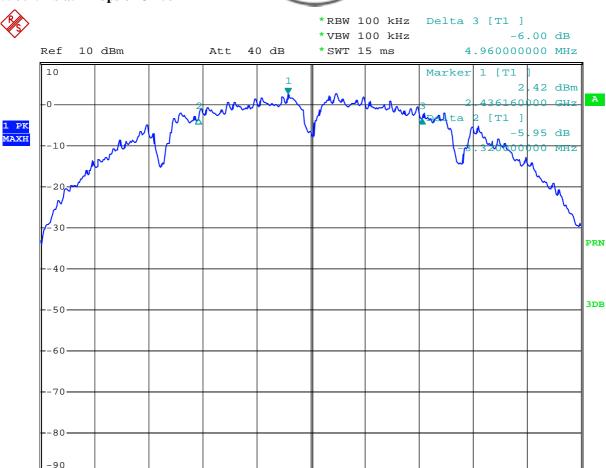
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Span 20 MHz

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5. 802.11b at 1Mbps of CH06



2 MHz/

Date: 25.JAN.2007 18:39:53

Center 2.437 GHz

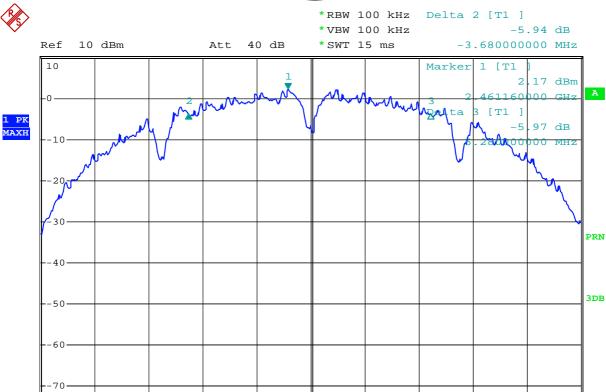
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Span 20 MHz

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6. 802.11b at 1Mbps of CH11



2 MHz/

Date: 25.JAN.2007 18:42:22

Center 2.462 GHz

-80

-90

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EUT		Digital Picture Frame			Model		EX811		
Mode		802.11g			Input Voltage		120V~		
Temperature		24 deg. C,			Humidity		56% RH		
Channel	el Channel Frequency (MHz)		Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)		Pass/ Fail	
1	2412		6 54	16.60 16.48		0.5		Pass	
6		2437		16.56 16.56		0.5		Pass	
11	2462		6 54	16.60 16.52		0.5		Pass	

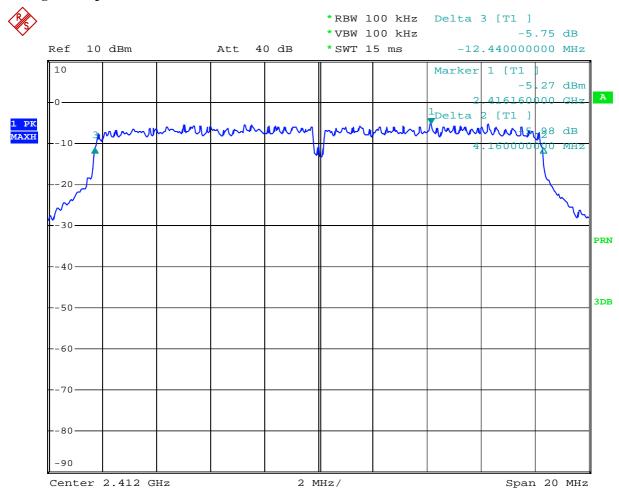
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Test Plots:

1. 802.11g at 6Mbps of CH01



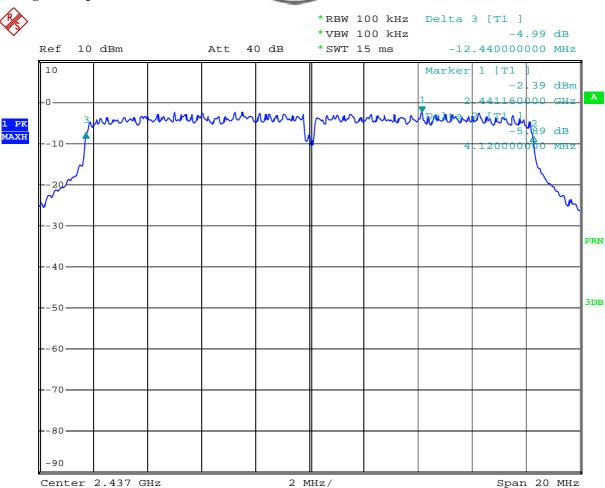
Date: 25.JAN.2007 18:49:37

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2. 802.11g at 6Mbps of CH06



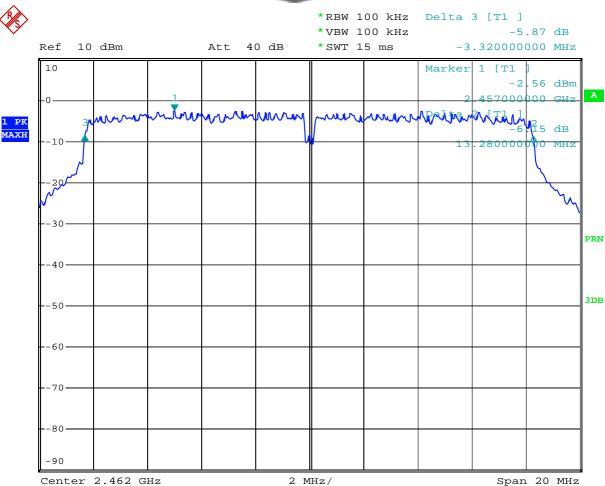
Date: 25.JAN.2007 18:51:01

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Report No: 0612039 Date: 2007-02-06



3. 802.11g at 6Mbps of CH11



Date: 25.JAN.2007 18:53:22

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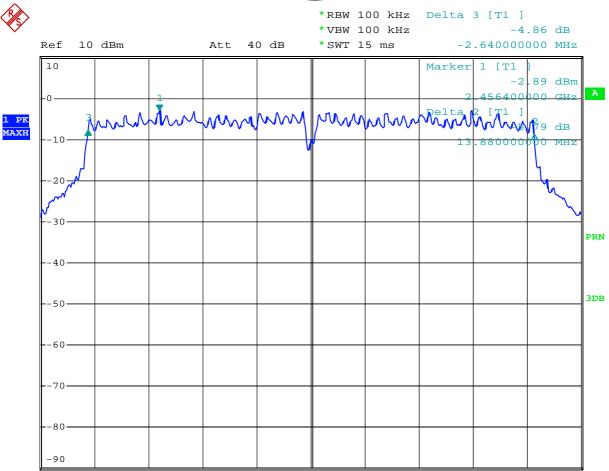
Span 20 MHz

Report No: 0612039 Date: 2007-02-06



4. 802.11g at 54Mbps of CH11





2 MHz/

25.JAN.2007 18:55:26 Date:

Center 2.462 GHz

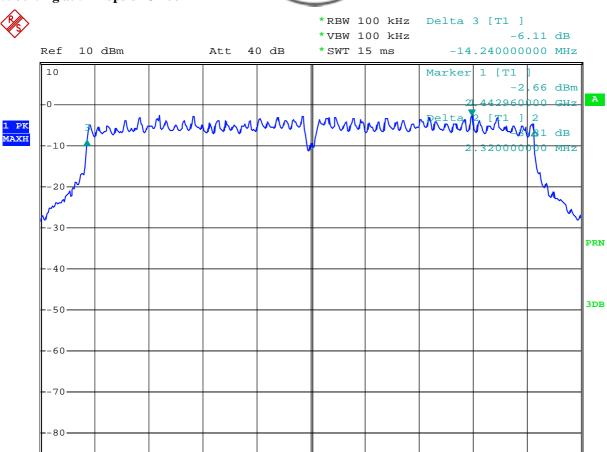
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Span 20 MHz

Report No: 0612039 Date: 2007-02-06



5. 802.11g at 54Mbps of CH06



2 MHz/

Date: 25.JAN.2007 19:02:01

Center 2.437 GHz

-90

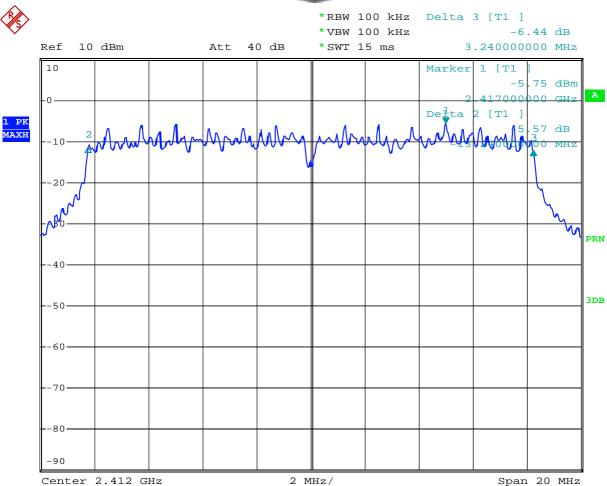
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6. 802.11g at 54Mbps of CH01





5.FEB.2007 17:38:27 Date:

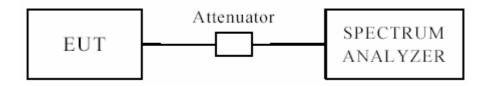
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8. Maximum Peak Output Power

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.

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8.4Test Results

EUT		Digital Picto	Model		EX811		
Mode		802.11b		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Ch	annel Frequency (MHz)	Peak Power Output (dBm)		Peak Power Limit (dBm)		Pass/ Fail
1		2412	11.96		30		Pass
6		2437	17.43		30		Pass
11		2462	17.15		30		Pass

Note: 1. At finial test to get the worst-case emission at 11Mbps for CH01 and CH06; 1Mbps for CH11

2. The result basic equation calculation as follow:

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

EUT		Digital Picture Frame		Model		EX811	
Mode		802.11g		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak Power Limit (dBm)		Pass/ Fail
1	2412		14.86		30		Pass
6		2437	20.54		30		Pass
11		2462	20.17		30		Pass

Note: 1. At finial test to get the worst-case emission at 9Mbps for CH06 and CH11; 24Mbps for CH01

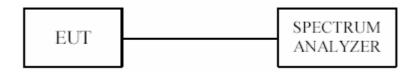
2. The result basic equation calculation as follow:

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

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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=100000.00ms

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.

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9.4Test Result

EUT		Digital Picture Frame		Model		EX811	
Mode		802.11b		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Ch	annel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)		Maximum Limit (dBm)		Pass/ Fail
1		2412	-13.65		8		Pass
6		2437	-9.95		8		Pass
11		2462	-10.13		8		Pass

Note: For 802.11b mode at finial test to get the worst-case emission at 1Mbps for CH11 and CH06. 11Mbps for CH01

EUT		Digital Picture Frame		Model		EX811	
Mode		802.11g		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Ch	annel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)		Maximum Limit (dBm)		Pass/ Fail
1		2412	-18.32		8		Pass
6		2437	-13.00		8		Pass
11		2462	-13.98		8		Pass

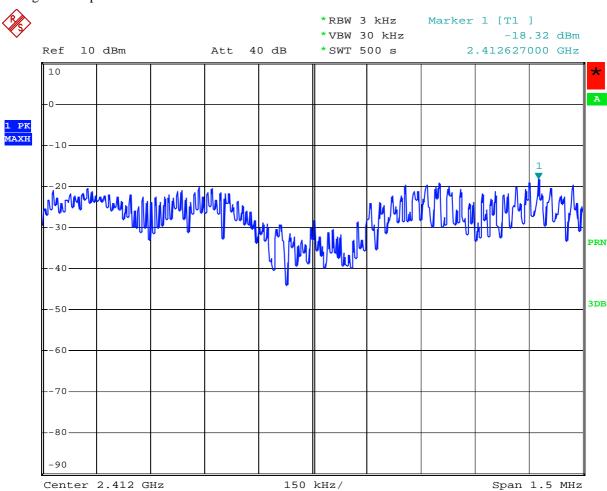
Note: For 802.11g mode at finial test to get the worst-case emission at 24Mbps

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9.5Photo of Power Spectral Density Measurement

1.802.11g at 24Mbps of CH01



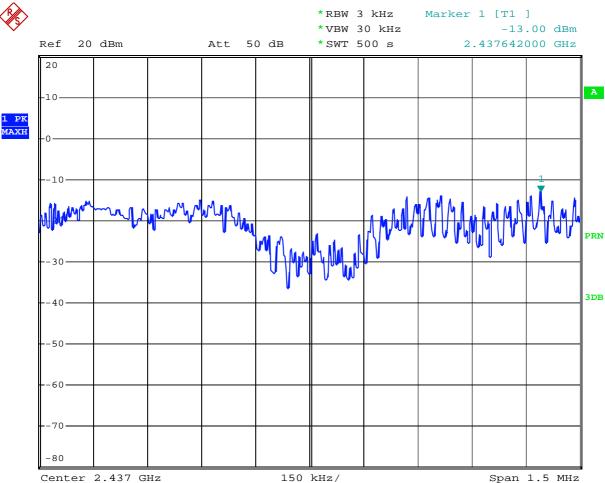
Date: 5.FEB.2007 19:10:49

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2. 802.11g at 24Mbps at CH06



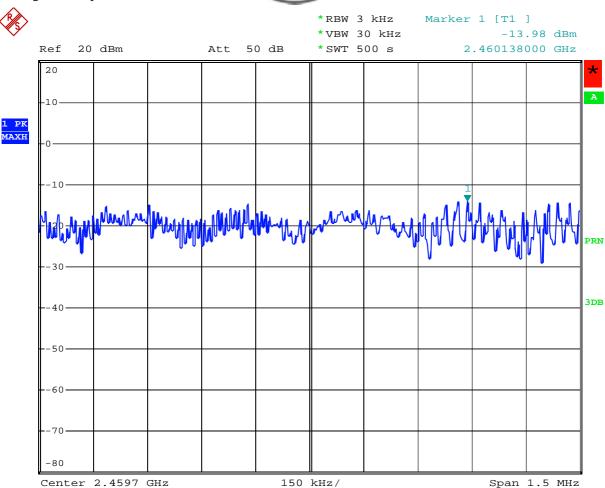
Date: 5.FEB.2007 20:35:21

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3. 802.11g at 24Mbps of CH11



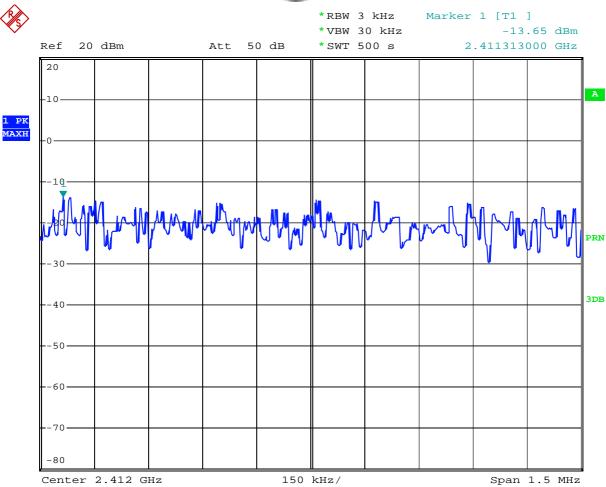
Date: 5.FEB.2007 20:16:54

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4. 802.11b at 11Mbps of CH01



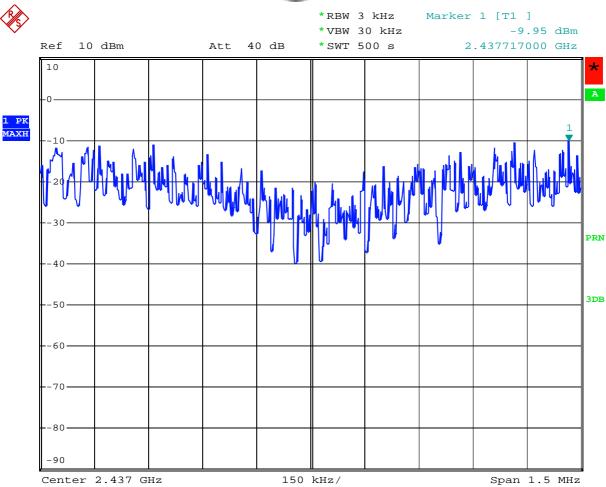
Date: 5.FEB.2007 21:22:49

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5. 802.11b at 1Mbps of CH06



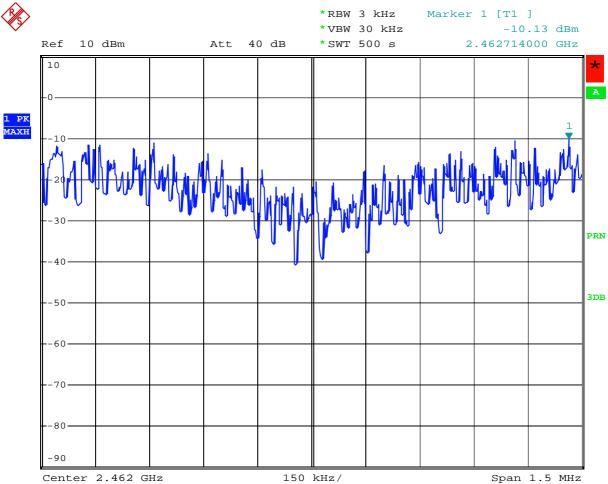
Date: 25.JAN.2007 21:20:07

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6. 802.11b at 1Mbps of CH11



Date: 25.JAN.2007 21:07:04

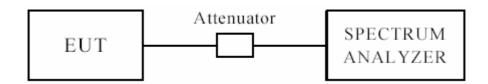
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10 Out of Band Measurement

10.1 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 the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak filed strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW=VBW=1MHz; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

10.4Test Result

For 802.11b mode

CH01 at 1Mbps

Note (Peak)

The band edge emission plot on the following first page shows 41.19dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 82.96dBuV/m (Peak), so the maximum field strength in restrict band is 82.96-41.19=41.77dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the following first page shows 49.33dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 82.96dBuV/m (Peak), so the maximum field strength in restrict band is 82.96-49.33=33.63dBuV/m which is under 74dBuV/m limit.

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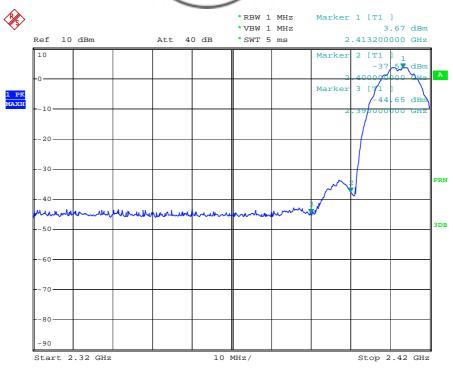
Note (Average):

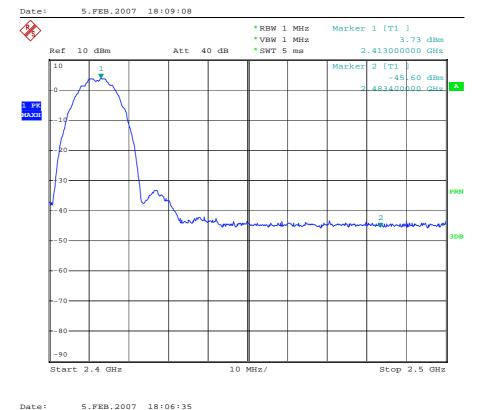
The band edge emission plot on the following second page shows 44.08dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 78.52dBuV/m (Average), so the maximum field strength in restrict band is 78.52-44.08=34.44dBuV/m which is under 54dBuV/m limit.

The band edge emission plot on the following second page shows 56.07dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 78.52dBuV/m (Average), so the maximum field strength in restrict band is 78.52-56.07=22.45dBuV/m which is under 54dBuV/m limit.

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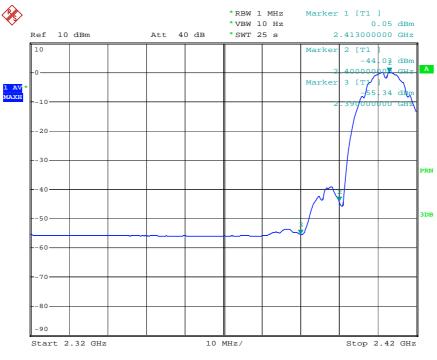


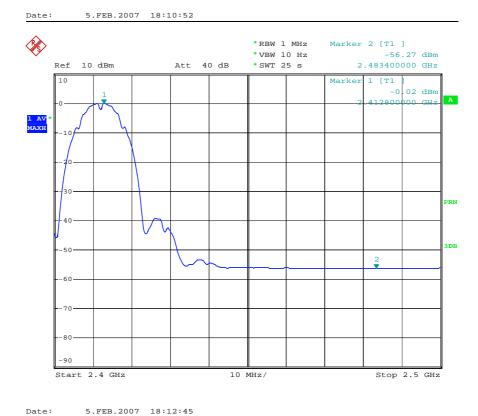
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For 802.11b mode

CH11 at 1Mbps

Note (Peak)

The band edge emission plot on the following first page shows 53.05dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 88.26dBuV/m (Peak), so the maximum field strength in restrict band is 88.26-53.05=35.21dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the following first page shows 51.48dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 88.26dBuV/m (Peak), so the maximum field strength in restrict band is 88.26-51.48=36.78dBuV/m which is under 74dBuV/m limit.

Note (Average):

The band edge emission plot on the following second page shows 60.41 dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 86.18 dBuV/m (Average), so the maximum field strength in restrict band is 86.18-60.41=25.77 dBuV/m which is under 54 dBuV/m limit.

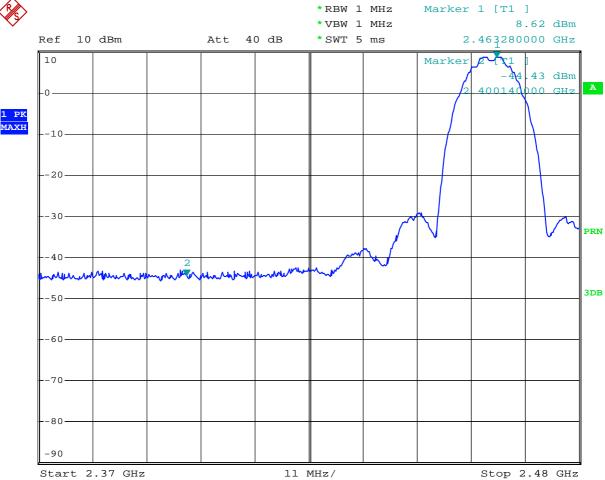
The band edge emission plot on the following second page shows 57.03dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 86.18dBuV/m (Average), so the maximum field strength in restrict band is 86.18-57.03=29.15dBuV/m which is under 54dBuV/m limit.

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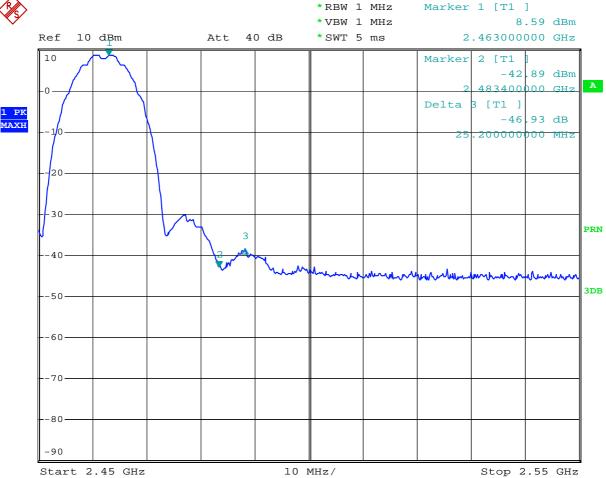
5.FEB.2007 22:08:46

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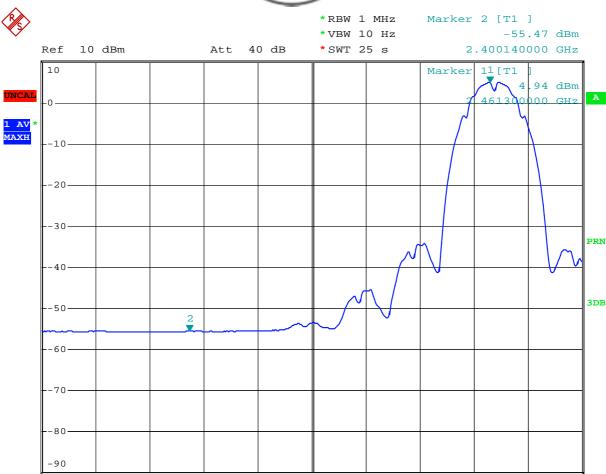
5.FEB.2007

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Stop 2.48 GHz

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11 MHz/

Date: 5.FEB.2007 22:13:16

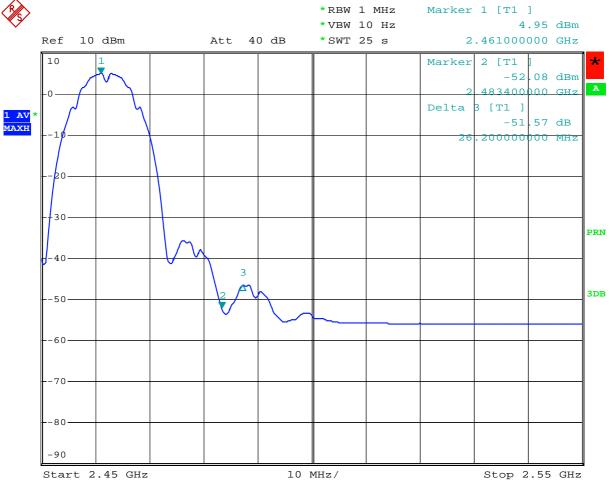
Start 2.37 GHz

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5.FEB.2007 22:11:40 Report No: 0612039

Date: 2007-02-06



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For 802.11g mode

CH11 at 6Mbps

Note (Peak)

The band edge emission plot on the following first page shows 53.04dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 84.09dBuV/m (Peak), so the maximum field strength in restrict band is 84.09-53.04=31.05dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the following first page shows 35.67dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 84.09dBuV/m (Peak), so the maximum field strength in restrict band is 84.09-35.67=48.42dBuV/m which is under 74dBuV/m limit.

Note (Average):

The band edge emission plot on the following second page shows 56.14dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 77.36dBuV/m (Average), so the maximum field strength in restrict band is 77.36-56.14=21.22dBuV/m which is under 54dBuV/m limit.

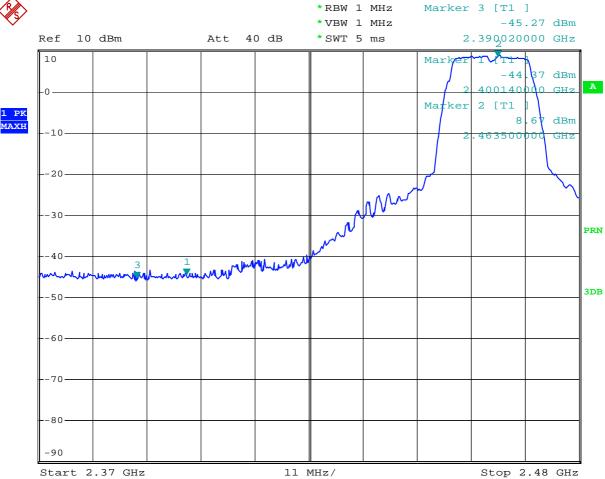
The band edge emission plot on the following second page shows 44.41dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 77.36dBuV/m (Average), so the maximum field strength in restrict band is 77.36-44.41=33.95dBuV/m which is under 54dBuV/m limit.

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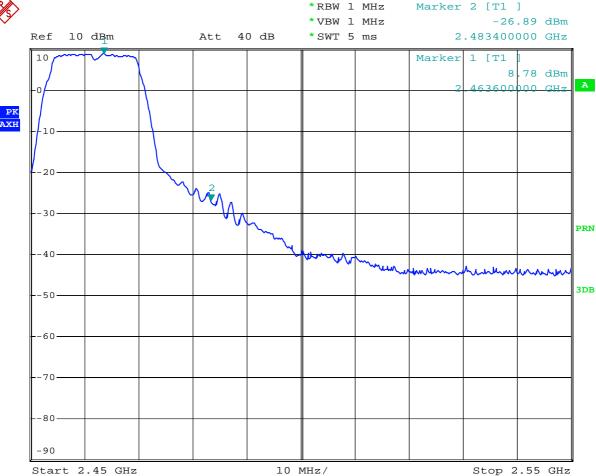
5.FEB.2007 18:27:37

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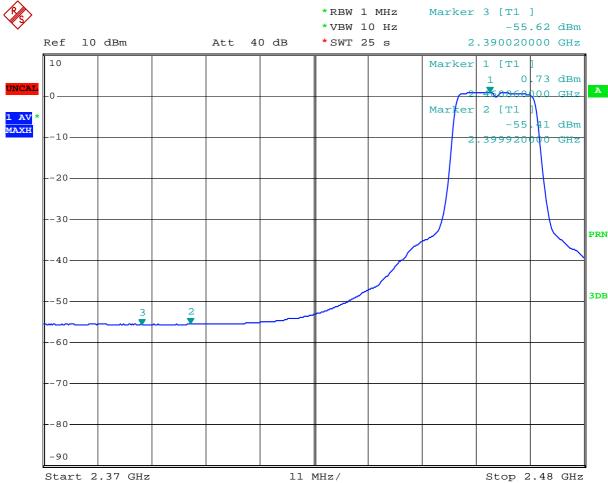


Date: 5.FEB.2007 18:26:16

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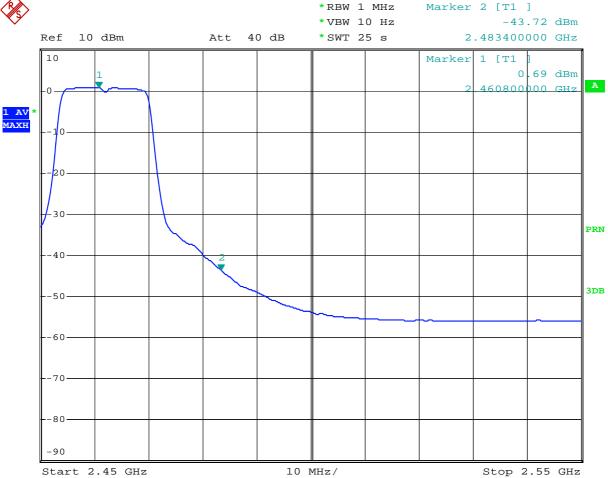
Date: 5.FEB.2007 18:18:51

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5.FEB.2007 18:20:22

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For 802.11g mode

CH01 at 6Mbps

Note (Peak)

The band edge emission plot on the following first page shows 32.03dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 83.35dBuV/m (Peak), so the maximum field strength in restrict band is 83.35-32.03=51.32dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the following first page shows 50.55dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 83.35dBuV/m (Peak), so the maximum field strength in restrict band is 83.35-50.55=32.80dBuV/m which is under 74dBuV/m limit.

Note (Average):

The band edge emission plot on the following second page shows 32.99dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 76.79dBuV/m (Average), so the maximum field strength in restrict band is 76.79-32.99=43.8BuV/m which is under 54dBuV/m limit.

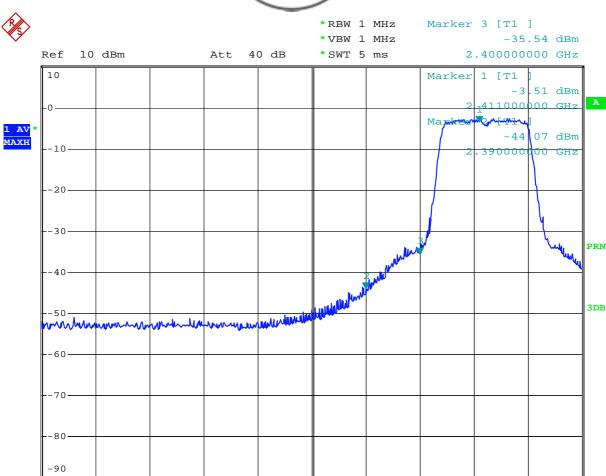
The band edge emission plot on the following second page shows 51.66dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 is 76.79dBuV/m (Average), so the maximum field strength in restrict band is 76.79-51.66=25.13dBuV/m which is under 54dBuV/m limit.

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Stop 2.43 GHz

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10 MHz/

Date: 5.FEB.2007 22:36:05

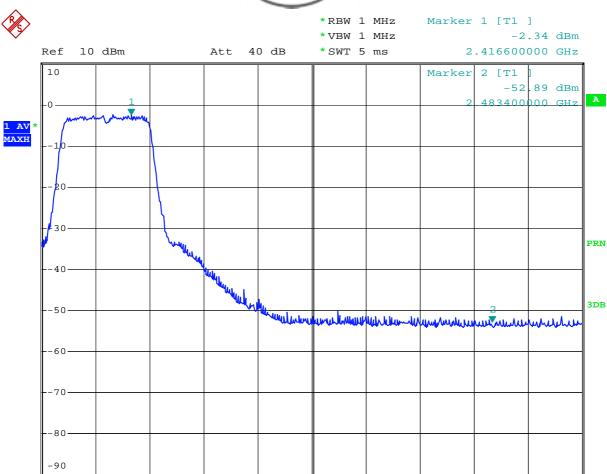
Start 2.33 GHz

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Stop 2.5 GHz

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10 MHz/

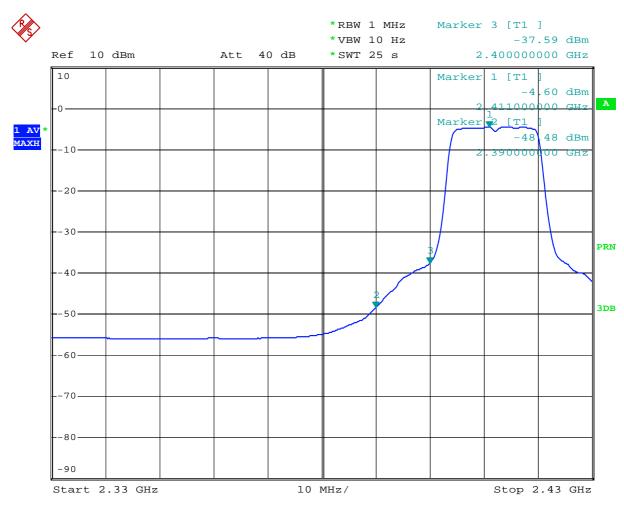
Date: 5.FEB.2007 22:36:47

Start 2.4 GHz

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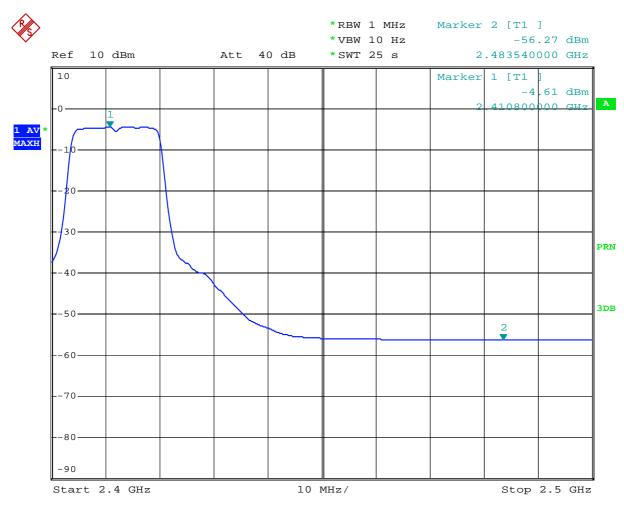


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11.0 Antenna Requirement

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

An RF cable connected the IPX connector with the antenna board. The maximum Gain of this antenna is 0.8897dBi.

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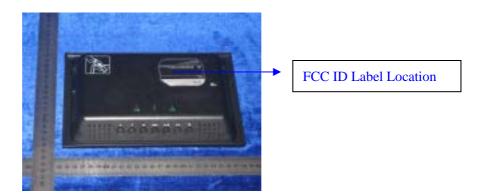
12.0 FCC ID Label

FCC ID: PA43874C

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:



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13.0 Photo of testing

13.1 Conducted test View--



13.2 Emission Radiated test View--



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13.3 Photo for the EUT

Outside View





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13.3 Photo for the EUT

Outside View





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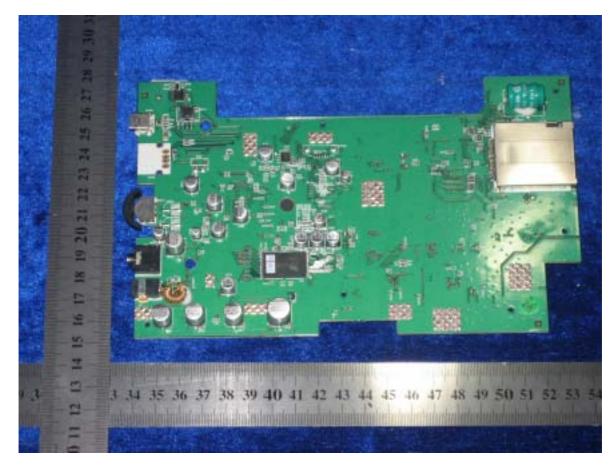
Interior View



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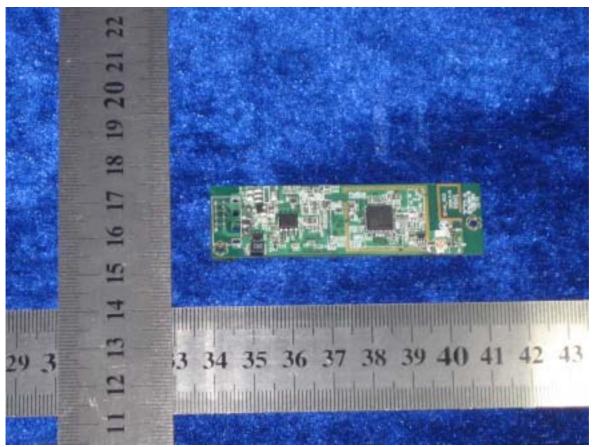


Interior View

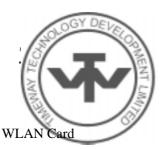


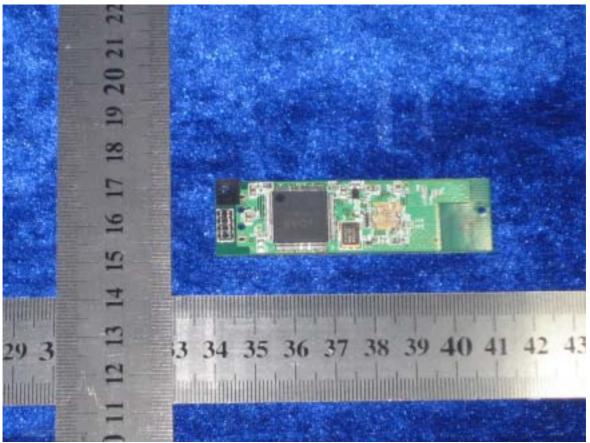
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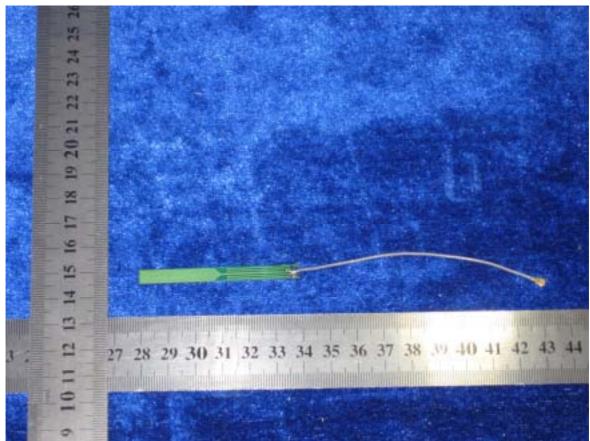
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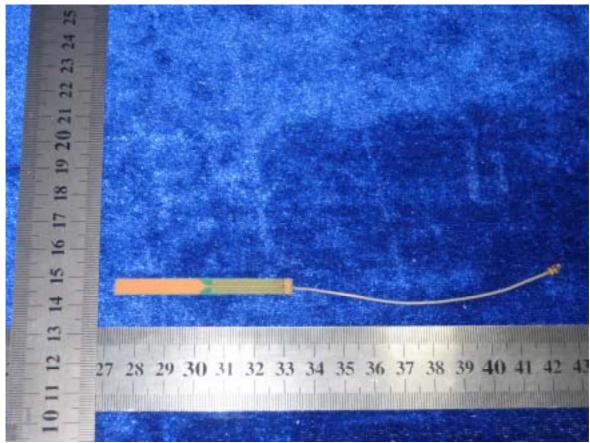
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Interior View





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