APPLICATION FOR CERTIFICATION On Behalf of

Yusan Industries Ltd

Module 3236ab: 802.11b/g Wi-Fi board with built-in antenna

Model Number: WIFI-3236AB-RUFA

Prepared for: Yusan Industries Ltd

Unit 8-9, 8/F, Honour Ind'1 Centre, 6 Sun Yip Street,

Chai Wan, Hong Kong

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block,

Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

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Report Number : ACS-F07521
Date of Test : Nov.11~27, 2007
Date of Report : Dec. 03, 2007

TABLE OF CONTENTS

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-	~11		

Page FCC Test Report for Declaration of Conformity SUMMARY OF STANDARDS AND RESULTS......1-1 1. Description of Standards and Results1-1 GENERAL INFORMATION......2-1 2. Description of Device (EUT)......2-1 2.1. Tested Supporting System Details2-2 2.2. Test Facility2-3 2.3. 2.4. 3. POWER LINE CONDUCTED EMISSION TEST......3-1 3.1. Block Diagram of Test Setup3-1 3.2. Power Line Conducted Emission Test Limits......3-1 3.3. Configuration of EUT on Test3-1 3.4. Operating Condition of EUT......3-2 3.5. Test Procedure......3-2 3.6. 3.7. RADIATED EMISSION TEST4-1 4. Test Equipment4-1 4.1. 4.2. Block Diagram of Test Setup4-1 4.3. 4.4. EUT Configuration on Test......4-2 Operating Condition of EUT......4-3 4.5. Test Procedure.......4-3 4.6. Radiated Emission Test Results 4-4 4.7. 5. 6dB Bandwidth Test......5-1 Test Equipment 5-1 5.1. 5.2. Test Information5-1 5.3. Test Procedure 5-1 5.4. 6. OUTPUT POWER TEST......6-1 Test Equipment6-1 6.1. 6.2. Test Information6-1 6.3. Test Procedure 6-1 6.4. Test Results 6-2 7. BAND EDGE COMPLIANCE TEST7-3 Test Equipment7-3 7.1. 7.2. 7.3. Test Results 7-3 8. POWER SPECTRAL DENSITY TEST8-1 8.1. Test Equipment8-1 Test Information 8-1 8.2. 8.3. Test Procedure 8-1 8.4. Test Results 8-2 9. MPE ESTIMATION.....9-1 Limit for General Population / Uncontrolled Exposures9-1 9.1. Estimation Result ______9-1 9.2.

10.	ANTENNA REQUIREMENT	10-1
11.	DEVIATION TO TEST SPECIFICATIONS	11-1
12.	PHOTOGRAPH	12-1
	12.1. Photos of Power Line Conducted Emission Test	12-1
	12.2 Photos of Radiated Emission Test	12-2

TEST REPORT CERTIFICATION

Applicant : Yusan Industries Ltd

Manufacturer : Yusan Technology (Shenzhen) Ltd

EUT Description : Module 3236ab: 802.11b/g Wi-Fi board with built-in antenna

(A) MODEL NO. : WIFI-3236AB-RUFA

(B) SERIAL NO. : N/A

(C) POWER SUPPLY: DC 3.3V From PDA

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2007

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test:	Nov.12~27, 2007
Prepared by :	Yo Yo Wang Yo Yo Wang / Assistant
Reviewer:	TCEMENTON Reitfidix Mai // Supervisor Audix Technology (Shenzhen) Co., Ltd.
	EMC 部門報告専用章 Stamp only for EMC Dept. Report Signature:
Approved & Authorize	d Signer : Ken Lu / Deputy Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION					
Description of Test Item	Standard	Results			
	FCC Part 15: 15.207				
Conducted Emission Test	ANSI C63.4: 2003	PASS			
	KDB558074				
	FCC Part 15: 15.209				
Radiated Emission Test	ANSI C63.4: 2003	PASS			
	KDB558074				
CdD Dandaridah Taga	FCC Part 15: 15.247	PASS			
6dB Bandwidth Test	KDB558074	PASS			
Output Power Test	FCC Part 15: 15.247	PASS			
	KDB558074				
	FCC Part 15: 15.247	PASS			
Band Edge Compliance Test	KDB558074				
	FCC Part 15: 15.247				
Power Spectral Density Test	KDB558074	PASS			
MPE ESTIMATION	FCC Part 2: 2.1093	PASS			
Antenna requirement	FCC Part 15: 15.203	PASS			

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product name : Module 3236ab: 802.11b/g Wi-Fi board with built-in

antenna

Model Number : WIFI-3236AB-RUFA

Operation frequency : 2.412GHz----2.462GHz ISM Band

Channel Number : 11

Channel frequency : F = 2412 + 5(K-1) K=1,2,.....11

Radio Technology : IEEE 802.11b/g

Modulation Technology : DSSS for IEEE 802.11b and OFDM for IEEE802.11g

Modulation Type : CCK, DQPSK, DBPSK for DSSS; 64QAM, 16QAM

QPSK for OFDM

Date rate : IEEE802.11b: 11/5.5/2/1Mbps

IEEE802.11g: 54/48/36/24/18/12/9/6Mbps

Output power : 12.37dBm(maximum measured)

Power : DC 3.3V From PDA

Antenna Assembly Gain : 0dBi (maximum)

Applicant : Yusan Industries Ltd

Unit 8-9, 8/F, Honour Ind'1 Centre, 6 Sun Yip Street,

Chai Wan, Hong Kong

Manufacturer : Yusan Technology (Shenzhen) Ltd

Haoyi Technology Park, Nan Huan Road, Shajing West, Baoan, Shenzhen, Guang Dong, P.R. China

PDA : Manufacture: Digiwalker M/N: MiOP350

S/N: B2T79E01249

USB Cable: Shielded, Detachable, 1.8m

Date of Test : Nov.11~27, 2007

Date of Receipt : Nov.10, 2007

Sample Type : Prototype production

2.2.Tested Supporting System Details

2.2.1.NOTEBOOK

M/N : PP09S S/N : N/A Manufacturer : DELL

Power Adaptor : Manufacturer: DELL,

M/N: LA65NS1-00

Cable: Unshielded, Detachabled, 4.0m

(Bond one ferrite core)

FCC ID : PIWW360BT

2.3. Test Facility

Site Description

3m Anechoic Chamber : Certificated by FCC, USA

Registration Number: 90454

Jun. 13, 2006

3m & 10m Anechoic Chamber : Certificated by FCC, USA

Registration Number: 794232

Jan. 31, 2007

EMC Lab. : Certificated by DATech, German

Registration Number: DAT-P-091/99-01

Feb. 02, 2004

Certificated by NVLAP, USA NVLAP Code: 200372-0

Apr.01, 2007

Certificated by Nemko, Norway

Aut. No.: ELA135 April. 22, 2004

Certificated by Industry Canada Registration Number: IC 5183A-1

Aug.10.2007

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.

Site Location : No. 6, Ke Feng Rd., 52 Block,

Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

2.4. Measurement Uncertainty

No.	Item	Uncertainty
1.	Uncertainty for Conducted Emission Test	1.22dB
2.	Uncertainty for Radiated Emission Test<1GHz	4.62dB
3.	Uncertainty for Radiated Emission Test>1GHz	4.79dB
4.	Uncertainty for conducted power measure	0.3265
5.	Uncertainty for Peak Power Density	0.3372
6.	Uncertainty for conducted Spurious Emission	0.3442
7.	Uncertainty for Bandwidth	1.0206×10^{-6}

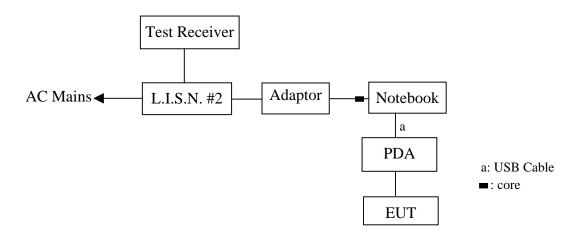
3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	May 11, 07	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May 11, 07	1 Year
3.	Terminator	Hubersuhner	50Ω	No. 1	May 11, 07	1 Year
4.	RF Cable	MIYAZAKI	5D-2W	LISN Cable 1#	Aug.11, 07	1/2 Year
5.	Coaxial Switch	Anritsu	MP59B	M55367	Aug.11, 07	1/2 Year
6.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Aug.11, 07	1/2 Year

3.2.Block Diagram of Test Setup

3.2.1.Block diagram of connection between the EUT and simulators



(EUT: Module 3236ab: 802.11b/g Wi-Fi board with built-in antenna)

3.3. Power Line Conducted Emission Test Limits

	Maximum RF Line Voltage			
Frequency	Quasi-Peak Level	Average Level		
	$dB(\mu V)$	$dB(\mu V)$		
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application. 3.4.1.Module 3236ab: 802.11b/g Wi-Fi board with built-in antenna (EUT)

Model Number : WIFI-3236AB-RUFA

Serial Number : N/A

Manufacturer : Yusan Technology (Shenzhen) Ltd

3.4.2. Support Equipment: As Tested Supporting System Detail, in Section 2.2..

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3. EUT was powered by 3.3V DC from PDA
- 3.5.4. Notebook running the Control program which can make the EUT work in test mode (TX mode) through PDA.

3.6.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. #2). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2003 on conducted Emission test.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

Note: The data rate was set 11Mbps for IEEE802.11b and 54Mbps for IEEE802.11g

The test result are reported on Section 3.7.,

3.7. Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test modes was tested and selected (mode 1) to read Q.P values and average values, all the test results are listed in next pages.

EUT: Module 3236ab: 802.11b/g Wi-Fi board with built-in antenna

Model No.: WIFI-3236AB-RUFA

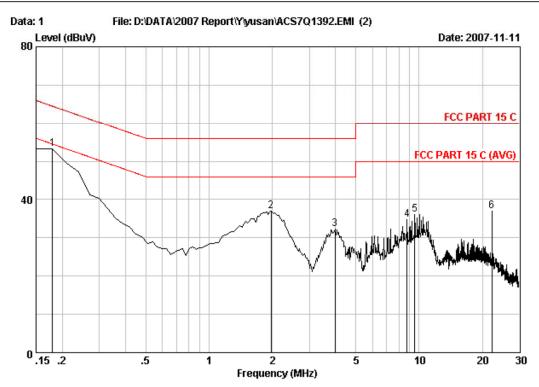
Test Date: Nov.11, 2007 Temperature: 25.9°C Humidity: 55%

The details of test modes are as follows:

No.	Test Mode	Reference Test Data No.		
		VA	VB	
1.	TX Mode	# 1	# 2	



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Site no. : Audix 1# Conduction Data no. : 1
Dis. / Ant. : -- KNW407 VA (1#) LISN Phase :

Limit : FCC PART 15 C

Env. / Ins. : 25.9*C/55% ESHS10 Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating : DC 3.3V From PDA

Test Mode : Tx Mode

M/N : WIFI-3236AB-RUFA

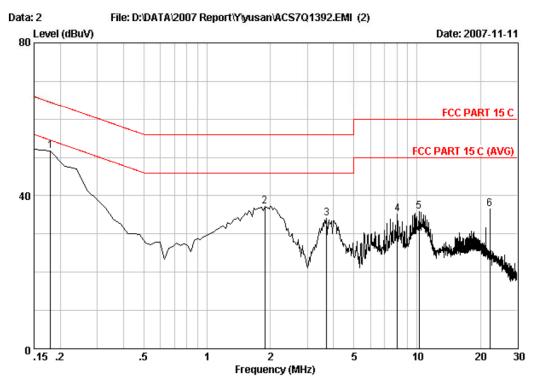
	Freq.	LISN. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18	0.18	10.15	42.89	53.22	64.49	11.27	QP
2	1.97	0.05	10.15	26.74	36.94	56.00	19.06	QP
3	3.97	0.09	10.18	21.96	32.23	56.00	23.77	QP
4	8.78	0.16	10.24	24.38	34.78	60.00	25.22	QP
5	9.52	0.17	10.25	25.72	36.14	60.00	23.86	QP
6	22.21	0.50	10.37	26.05	36.92	60.00	23.08	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

 If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Site no. : Audix 1# Conduction Data no. : 2 Dis. / Ant. : -- KNW407 VB (1#) LISN Phase :

Limit : FCC PART 15 C

Env. / Ins. : 25.9*C/55% ESHS10 Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating : DC 3.3V From PDA

Test Mode : Tx Mode

M/N : WIFI-3236AB-RUFA

	Freq.	LISN. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18	0.19	10.15	41.41	51.75	64.49	12.74	QP
2	1.88	0.05	10.15	27.10	37.30	56.00	18.70	QP
3	3.70	0.08	10.18	23.80	34.06	56.00	21.94	QP
4	8.06	0.14	10.23	24.80	35.17	60.00	24.83	QP
5	10.21	0.17	10.25	25.56	35.98	60.00	24.02	QP
6	22.21	0.50	10.37	25.58	36.45	60.00	23.55	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

 If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1.Test Equipment

4.1.1.For Anechoic Chamber

Frequency rang: 30~1000MHz

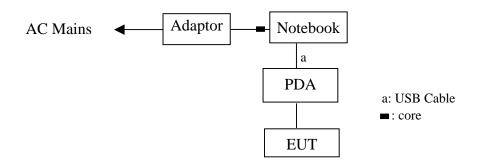
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	June.25.07	1/2 Year
2	EMI Spectrum	Agilent	E7403A	MY42000106	May 11, 07	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May 11, 07	1 Year
4	Amplifier	HP	8447D	2944A07794	Sep.11, 07	1/2 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Feb.22, 07	1 Year
6	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	July. 16, 07	1/2 Year
7	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	July. 16, 07	1/2 Year
8	RF Cable	FUJIKURAw	RG-55/U	3# Chamber No.3	July. 16, 07	1/2 Year
9	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	July. 16, 07	1/2 Year
10	Coaxial Switch	Anritsu	MP59B	M73989	July. 16, 07	1/2 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 11, 07	1 Year
2.	Amp	HP	8449B	3008A00863	May 11, 07	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 11, 07	1 Year
5.	Antenna	ETS	3116	00060088	May. 28, 07	1 Year

4.2.Block Diagram of Test Setup

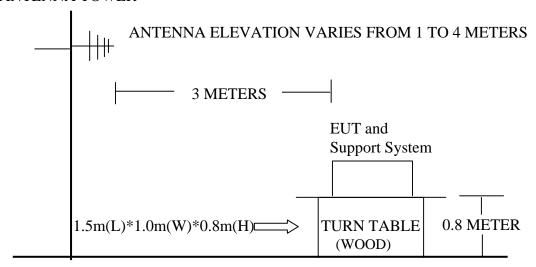
4.2.1.Block diagram of connection between the EUT and simulators



(EUT: Module 3236ab: 802.11b/g Wi-Fi board with built-in antenna)

4.2.2.In Anechoic Chamber

ANTENNA TOWER



GROUND PLANE

4.3. Radiated Emission Limit

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT			
MHz	Meters	μV/m	$dB(\mu V)/m$		
30 ~ 88	3	100	40.0		
88 ~ 216	3	150	43.5		
216 ~ 960	3	200	46.0		
960 ~ 1000	3	500	54.0		
Above 1000	3	74.0 dB(μV)/m (Peak)			
		54.0 dB(μV)/m (Average)			

Remark : (1) Emission level $dB\mu V = 20 \log Emission$ level $\mu V/m$

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1.Module 3236ab: 802.11b/g Wi-Fi board with built-in antenna (EUT)

Model Number : WIFI-3236AB-RUFA

Serial Number : N/A

Manufacturer : Yusan Technology (Shenzhen) Ltd

4.4.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2.

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 4.5.2. Turn on the power of all equipment.
- 4.5.3.EUT was powered by 3.3V DC from PDA
- 4.5.4. PC running the Control program which can make the EUT work in test mode (TX mode) through PDA.

4.6.Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2003 on Radiated Emission test.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW 10Hz VBW for average emission above 1GHz

The frequency range from 30MHz to 10th harmonic are checked.

Note: The data rate was set 11Mbps for IEEE802.11b and 54Mbps for IEEE802.11g.

The test modes (IEEE 802.11b TX/ IEEE 802.11g TX) is tested in Anechoic Chamber and all the scanning waveforms are reported with antenna in horizontal and vertical polarization on Section 4.7.

4.7. Radiated Emission Test Results

PASS.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All the emissions from 18GHz~25GHz are Peak measured and comply with average limit.

EUT: Module 3236ab: 802.11b/g Wi-Fi board with built-in antenna

Model No.: WIFI-3236AB-RUFA

Test Date: Nov.12~27, 2007 Temperature: 24°C Humidity: 56%

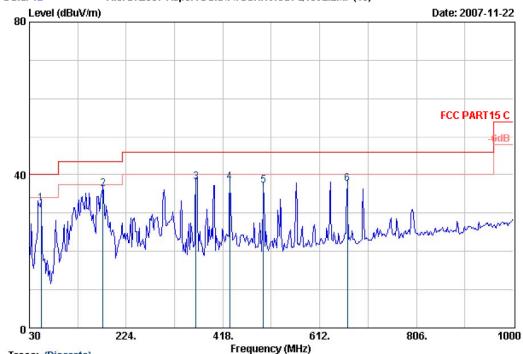
The details of test modes are as follows:

Test	Frequency	Test Mode	Reference Te	est Data No.	
Mode	(MHz)	rest Wode	Horizontal	Vertical	
1.	30~1000	Tx Mode	#12	#13	
2.		Tx IEEE802.11b CH1 2412MHz	#5 #6	#7 #8	
3.	1000~18000	Tx IEEE802.11b CH6 2437MHz	#11 #12	#9 #10	
4.		Tx IEEE802.11b CH11 2462MHz	#13 #14	#15 #16	
5.		Tx IEEE802.11g CH1 2412MHz		#25 #26	#27 #28
6.		Tx IEEE802.11g CH6 2437MHz	#23 #24	#21 #22	
7.		Tx IEEE802.11g CH11 2462MHz	#17 #18	#19 #20	
8.		Tx IEEE802.11b CH1 2412MHz	#38	#39	
9.		Tx IEEE802.11b CH6 2437MHz	#41	#40	
10.	18000~25000	Tx IEEE802.11b CH11 2462MHz	#42	#43	
11.		Tx IEEE802.11g CH1 2412MHz	#49	#48	
12.		Tx IEEE802.11g CH6 2437MHz	#46	#47	
13.		Tx IEEE802.11g CH11 2462MHz	#45	#44	



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Trace: (Discrete)

Site no. Dis / Ant.

Data no. : 12 Ant. pol. : HORIZONTAL : 3# Chamber Radiation : 3m 2598

FCC PART15 C 24*C/56% E Limit Env. / Ins. EUT ESVS20 Engineer : Jamy

Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

DC 3.3V From PDA Tx Mode Power Rating : Test mode

M/N WIFI-3236AB-RUFA

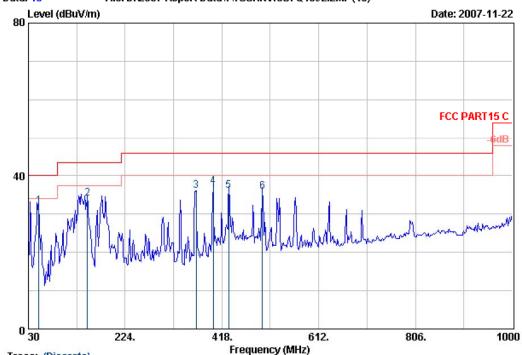
	Freq. (MHz)	Ant. Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	급하하다 그 그	Margin (dB)	Remark
1	53.28	7.66	0.87	24.05	32.58	40.00	7.42	QP
2	177.44	9.45	1.27	25.53	36.25	43.50	7.25	QP
3	363.68	15.40	1.76	20.98	38.14	46.00	7.86	QP
4	431.58	17.00	1.99	19.04	38.03	46.00	7.97	QP
5	499.48	18.10	2.02	17.03	37.15	46.00	8.85	QP
6	667.29	20.50	2.29	14.91	37.70	46.00	8.30	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading. The emission levels that are 20dB below the official limit are not reported.



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Trace: (Discrete)

Site no. Dis. / Ant. 3# Chamber Radiation 3m 2598 Data no. Ant. pol.

VERTICAL Limit FCC PART15 C Env. / Ins. 24*C/56% ESVS20 Engineer : Jamy

EUT Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

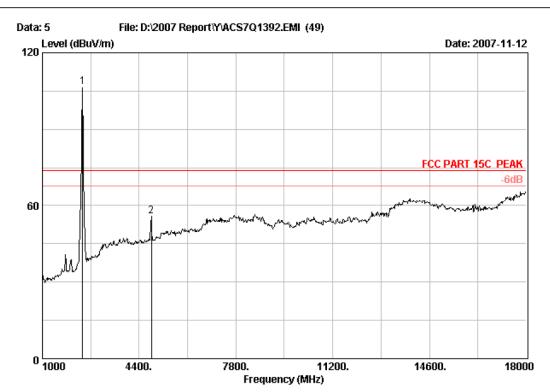
Power Rating DC 3.3V From PDA Tx Mode WIFI-3236AB-RUFA Test mode M/N

1424 - 7424 - 7424	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)		Margin (dB)	Remark
1	51.34	8.42	0.85	22.92	32.19	40.00	7.81	QP
2	148.34	11.60	1.21	21.19	34.00	43.50	9.50	QP
3	366.59	15.43	1.76	18.99	36.18	46.00	9.82	QP
4	400.54	16.53	1.83	18.88	37.24	46.00	8.76	QP
5	431.58	17.00	1.99	17.18	36.17	46.00	9.83	QP
6	499.48	18.10	2.02	15.85	35.97	46.00	10.03	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading. The emission levels that are 20dB below the official limit are not reported.



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Site no.

Data no. : 5 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 3115 FACTOR

: FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Jamy

: Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH1 2412MHz

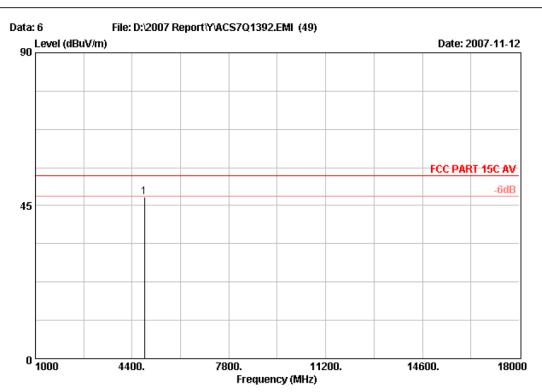
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2412.00	29.03	6.22	35.18	106.52	106.59	74.00	-32.59	Peak
2	4824.00	34.02	9.59	34.49	46.78	55.90	74.00	18.10	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no.

Data no. : 6 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m 3115 FACTOR

: FCC PART 15C AV

Env. / Ins. : 23*C/54% Engineer : Jamy

: Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH1 2412MHz

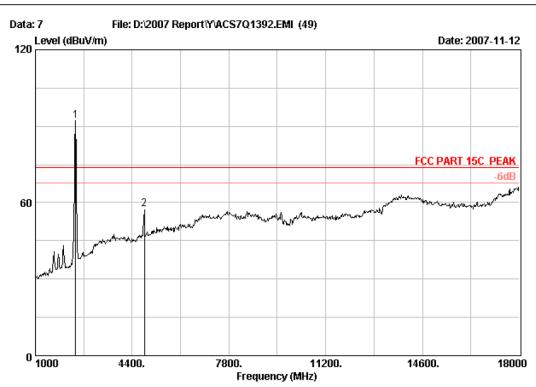
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.00	34.02	9.59	34.49	38.52	47.64	54.00	6.36	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH1 2412MHz

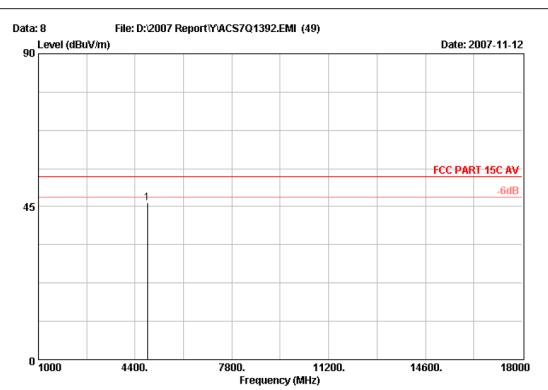
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp		Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
										-
1	2412.00	29.03	6.22	35.18	92.07	92.14	74.00	-18.14	Peak	
2	4824.00	34.02	9.59	34.49	48.52	57.64	74.00	16.36	Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no.

Data no. : 8 Ant. pol. : VERTICAL Dis. / Ant. : 3m 3115 FACTOR

: FCC PART 15C AV

Env. / Ins. : 23*C/54% Engineer : Jamy

: Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH1 2412MHz

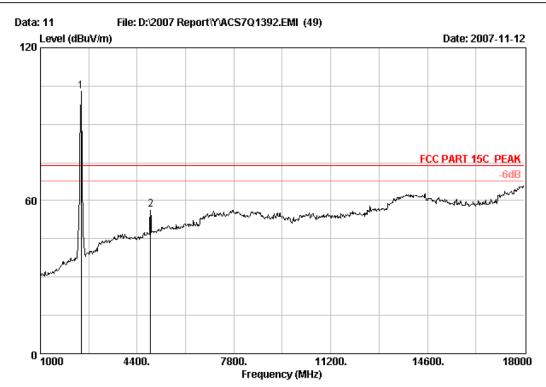
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.00	34.02	9.59	34.49	37.07	46.19	54.00	7.81	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : Data no. : 11

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH6 2437MHz

M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2437.00	29.11	6.25	35.17	102.69	102.88	74.00	-28.88	Peak
2	4874.00	34.16	9.67	34.48	47.09	56.44	74.00	17.56	Peak

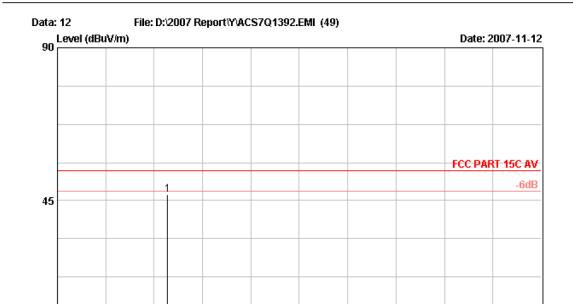
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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14600.

18000



Site no. : Data no. : 12

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

0 1000

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

7800.

Frequency (MHz)

11200.

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH6 2437MHz

4400.

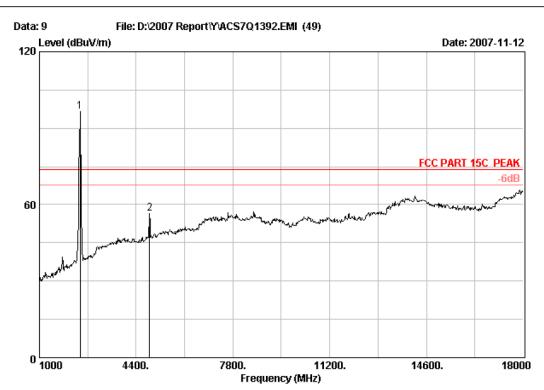
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.00	34.16	9.67	34.48	37.45	46.80	54.00	7.20	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH6 2437MHz

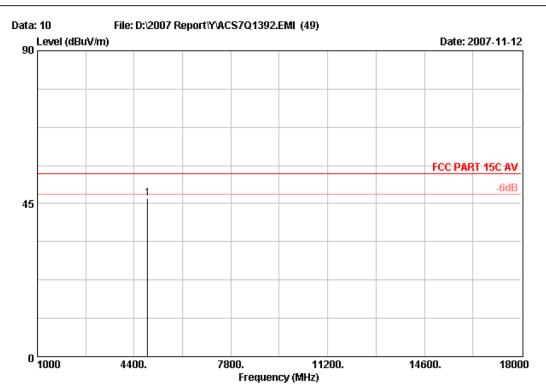
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp		Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
	2437.00	20 11	6 25	35 17	 06 31	06 50	74 OO		Peak	_
2	4874.00	34.16	9.67	34.48	47.11	56.46	74.00	17.54	Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Limit : FCC PART 15C AV

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH6 2437MHz

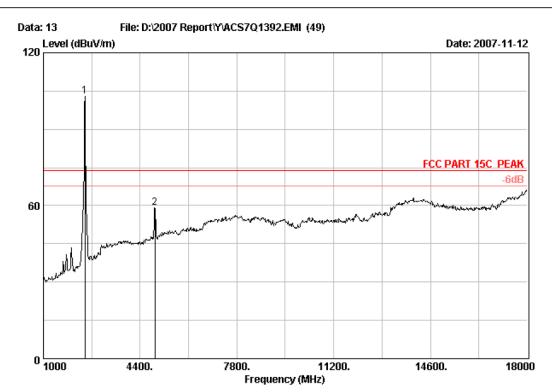
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.00	34.16	9.67	34.48	37.30	46.65	54.00	7.35	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : Data no. : 13

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH11 2462MHz

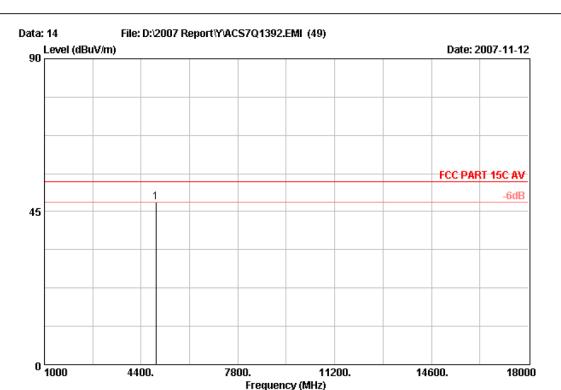
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp					
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2462.00	29.15	6.28	35.17	102.67	102.93	74.00	-28.93	Peak
2	4924.00	34.29	9.79	34.47	49.67	59.28	74.00	14.72	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : Data no. : 14

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH11 2462MHz

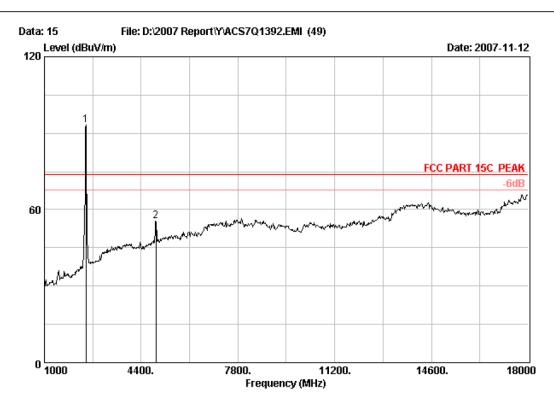
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.00	34.29	9.79	34.47	38.18	47.79	54.00	6.21	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH11 2462MHz

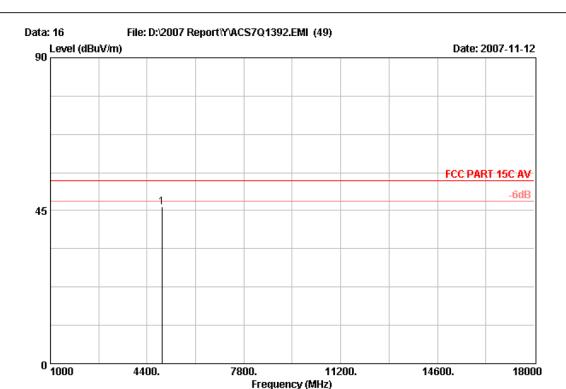
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	able Amp Emission					
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2462.00	29.15	6.28	35.17	92.92	93.18	74.00	-19.18	Peak
2	4924.00	34.29	9.79	34.47	45.76	55.37	74.00	18.63	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Limit : FCC PART 15C AV

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH11 2462MHz

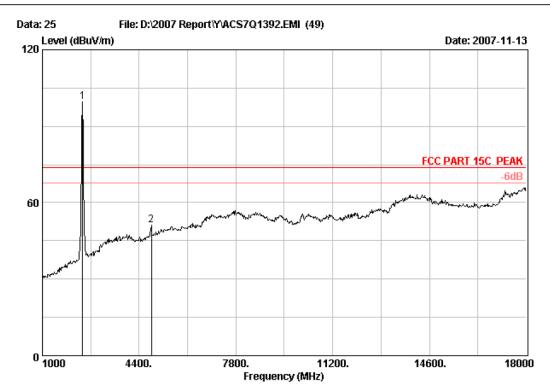
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp					
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.00	34.29	9.79	34.47	36.58	46.19	54.00	7.81	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : Data no. : 25

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH1 2412MHz

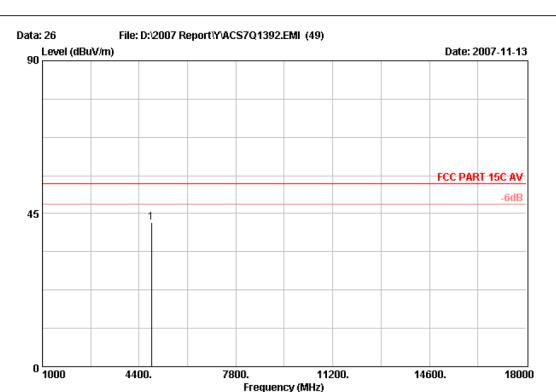
M/N : WIFI-3236AB-RUFA

			Ant.	Cable	Amp	mp Emission					
		Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
		(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
-											
	1	2412.00	29.03	6.22	35.18	99.60	99.67	74.00 -	-25.67	Peak	
	2	4824.00	34.02	9.59	34.49	42.16	51.28	74.00	22.72	Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : Data no. : 26

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH1 2412MHz

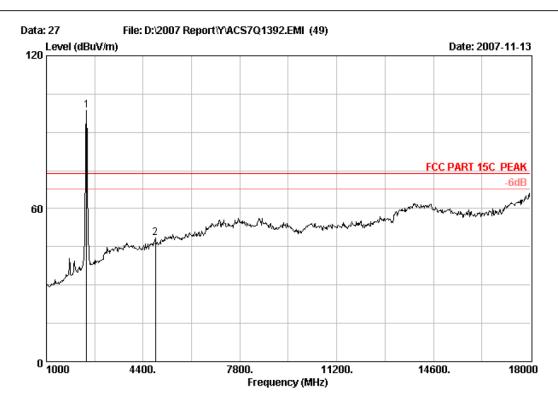
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp					
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.00	34.02	9.59	34.49	33.16	42.28	54.00	11.72	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH1 2412MHz

M/N : WIFI-3236AB-RUFA

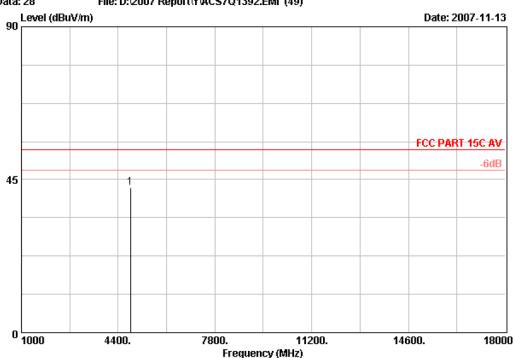
			Ant.	Cable	able Amp Emission						
		Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
		(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
_											-
	1	2412.00	29.03	6.22	35.18	98.39	98.46	74.00	-24.46	Peak	
	2	4824.00	34.02	9.59	34.49	39.49	48.61	74.00	25.39	Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Limit : FCC PART 15C AV

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH1 2412MHz

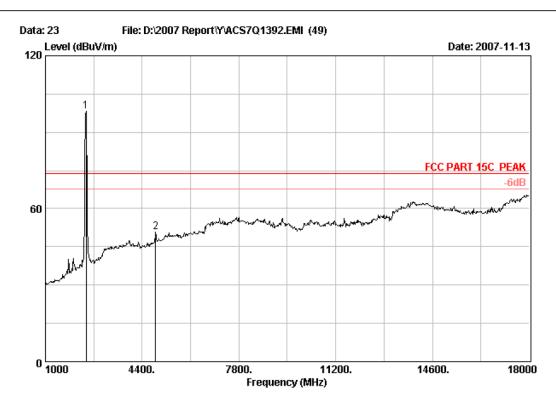
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4824.00	34.02	9.59	34.49	33.49	42.61	54.00	11.39	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : Data no. : 23

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH6 2437MHz

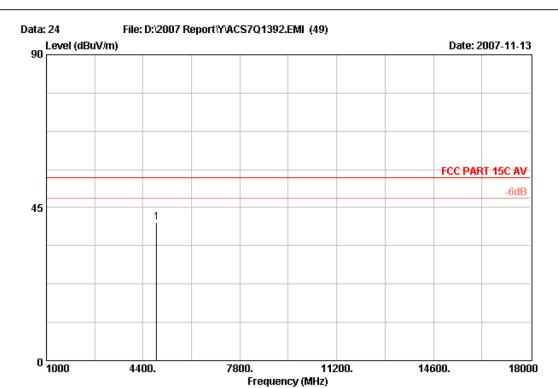
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	able Amp Emission					
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2437.00	29.11	6.25	35.17	98.22	98.41	74.00	-24.41	Peak
2	4874.00	34.16	9.67	34.48	41.38	50.73	74.00	23.27	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Site no. : Data no. : 24

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH6 2437MHz

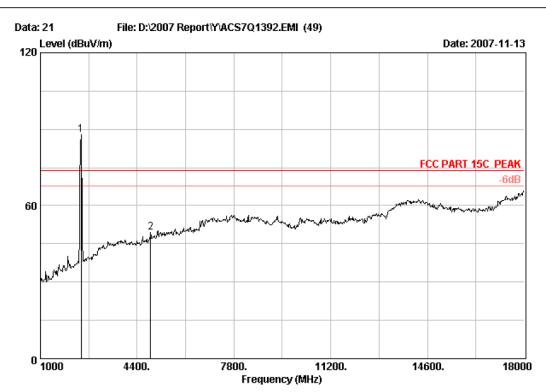
M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4874.00	34.16	9.67	34.48	31.38	40.73	54.00	13.27	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



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Limit : FCC PART 15C PEAK

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH6 2437MHz

M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Cable Amp Emission						
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
	2427.00	20 11		25 17			74 00	14 02	Peak	-
1	2437.00	29.11	6.25	35.17	0/.04	00.03	74.00	-14.03	reak	
2	4874.00	34.16	9.67	34.48	40.02	49.37	74.00	24.63	Peak	

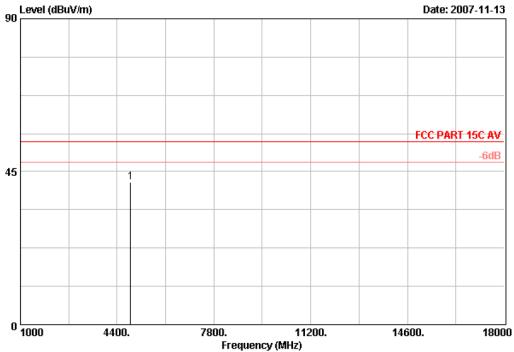
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.



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Data: 22 File: D:\2007 Report\Y\AC\$7Q1392.EMI (49)
Level (dBuV/m)



Limit : FCC PART 15C AV

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH6 2437MHz

M/N : WIFI-3236AB-RUFA

Ant. Cable Amp Emission
Freq. Factor Loss Factor Reading Level Limits Margin Remark
(MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dB)

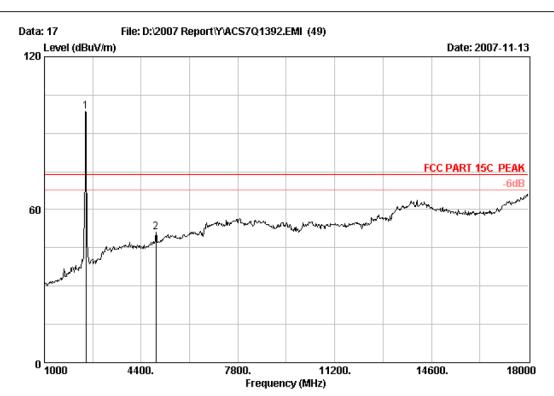
1 4874.00 34.16 9.67 34.48 32.50 41.85 54.00 12.15 Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

The emission levels that are 20dB below the official limit are not reported.



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Site no. : Data no. : 17

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH11 2462MHz

M/N : WIFI-3236AB-RUFA

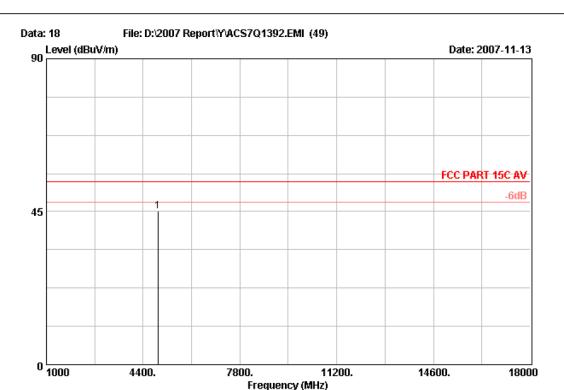
		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2462.00	29.15	6.28	35.17	98.39	98.65	74.00	-24.65	Peak
2	4924.00	34.29	9.79	34.47	41.48	51.09	74.00	22.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : Data no. : 18

Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH11 2462MHz

M/N : WIFI-3236AB-RUFA

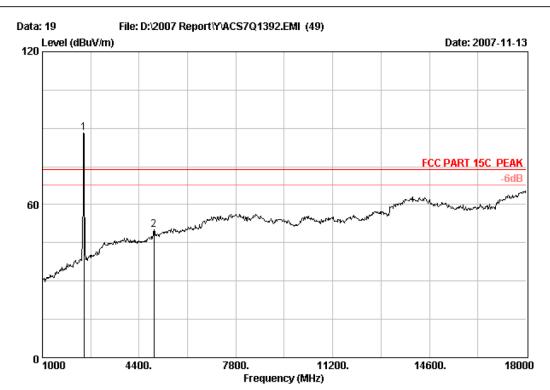
		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.00	34.29	9.79	34.47	35.48	45.09	54.00	8.91	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

The emission levels that are 20dB below the official limit are not reported.



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Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH11 2462MHz

M/N : WIFI-3236AB-RUFA

		Ant.	Cable	Amp	Emission					
	Freq.				_			Margin	Remark	
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
										-
1	2462.00	29.15	6.28	35.17	87.87	88.13	74.00	-14.13	Peak	
2	4924.00	34.29	9.79	34.47	40.60	50.21	74.00	23.79	Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.



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Frequency (MHz)

Limit : FCC PART 15C AV

Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH11 2462MHz

M/N : WIFI-3236AB-RUFA

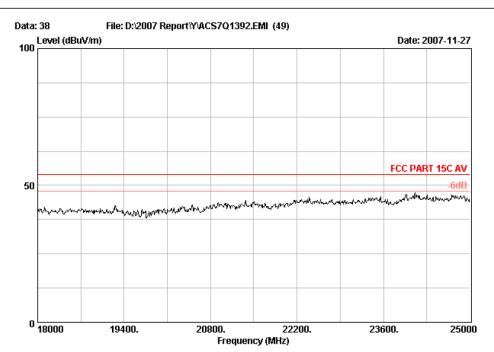
		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	4924.00	34.29	9.79	34.47	34.60	44.21	54.00	9.79	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

The emission levels that are 20dB below the official limit are not reported.



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Site no. : Data no. : 38

Dis. / Ant. : 3m Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

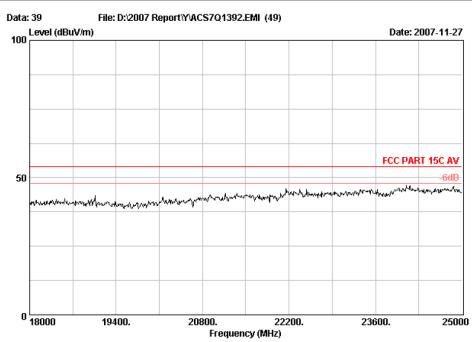
Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH1 2412MHz

M/N : WIFI-3236AB-RUFA



Site no. : Data no. : 39
Dis. / Ant. : 3m Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

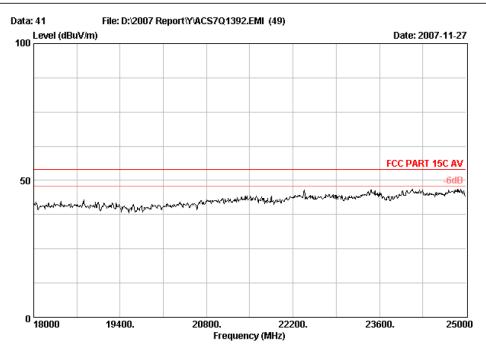
Env. / Ins. : 23*C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA
Test Mode : Tx IEEE802.11b CH1 2412MHz



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Site no. : Data no. : 41

Dis. / Ant. : 3m Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

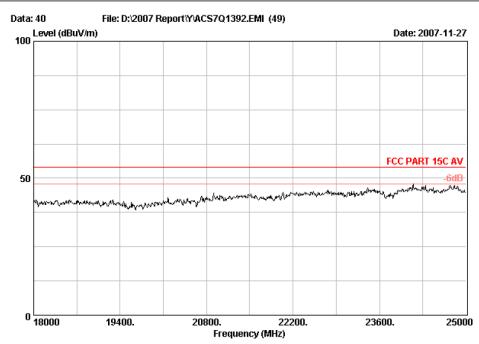
Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH6 2437MHz

M/N : WIFI-3236AB-RUFA



Site no. : Data no. : 40
Dis. / Ant. : 3m Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23 *C/54% Engineer : Jamy

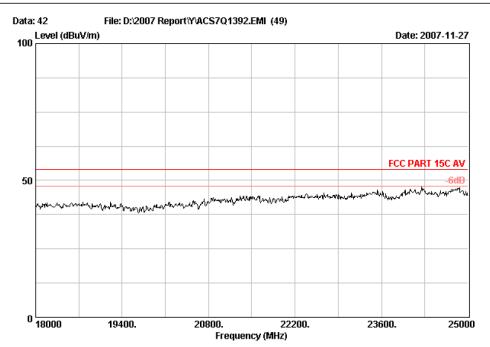
EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH6 2437MHz



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Site no. : Data no. : 42

Dis. / Ant. : 3m Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

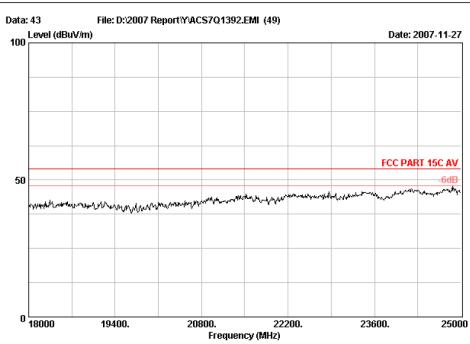
Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH11 2462MHz

M/N : WIFI-3236AB-RUFA



Site no. : Data no. : 43
Dis. / Ant. : 3m Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23*C/54% Engineer : Jamy

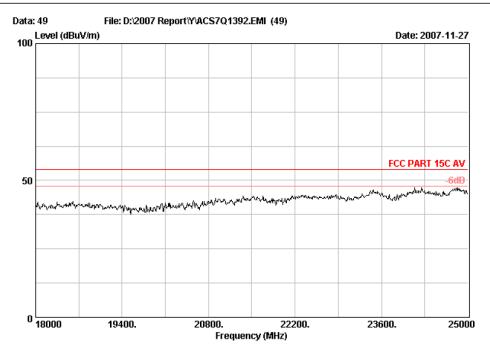
EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11b CH11 2462MHz



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Site no. : Data no. : 49

Dis. / Ant. : 3m Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

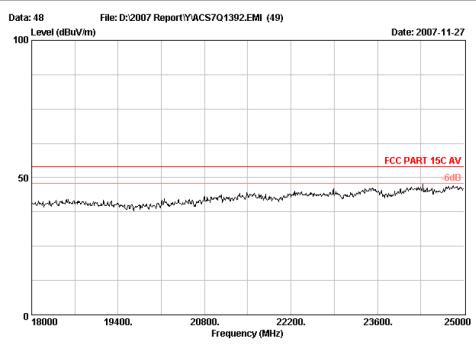
Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH1 2412MHz

M/N : WIFI-3236AB-RUFA



Site no. : Data no. : 48
Dis. / Ant. : 3m Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins.: 23 *C/54% Engineer : Jamy

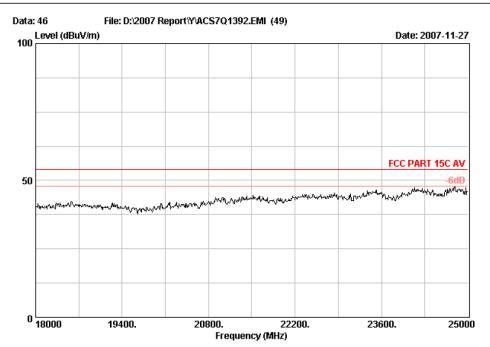
EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH1 2412MHz



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Site no. : Data no. : 46

Dis. / Ant. : 3m Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

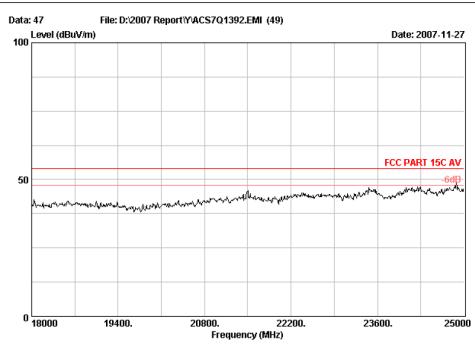
Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH6 2437MHz

M/N : WIFI-3236AB-RUFA



Site no. : Data no. : 47
Dis. / Ant. : 3m Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins. : 23*C/54% Engineer : Jamy

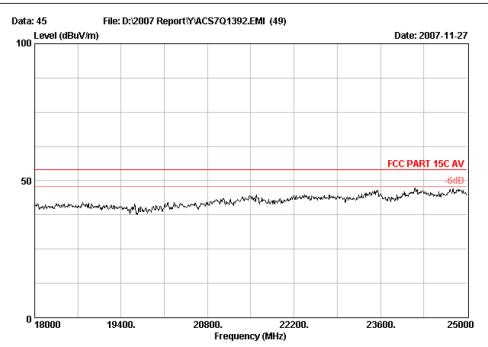
EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH6 2437MHz



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Site no. : Data no. : 45

Dis. / Ant. : 3m Ant. pol. : HORIZONTAL

Limit : FCC PART 15C AV

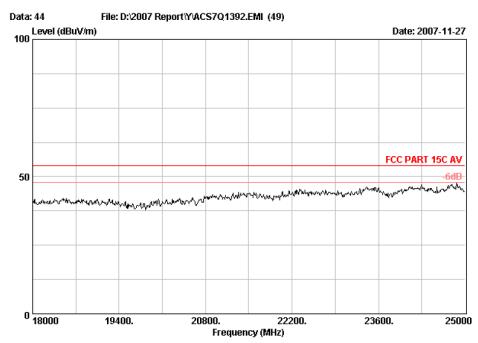
Env. / Ins. : 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH11 2462MHz

M/N : WIFI-3236AB-RUFA



Site no. : Data no. : 44
Dis. / Ant. : 3m Ant. pol. : VERTICAL

Limit : FCC PART 15C AV

Env. / Ins.: 23 *C/54% Engineer : Jamy

EUT : Module 3236ab:802.11b/g Wi-Fi board with built-in antenna

Power Rating: DC 3.3V From PDA

Test Mode : Tx IEEE802.11g CH11 2462MHz

5. 6dB Bandwidth Test

5.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
						Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,11, 07	1 Year
2	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
3	RF Cable	MIYAZAKI	8D-FB	No.3	Jun.06, 07	1/2 Year

5.2.Test Information

EUT:	Module 3236ab: 802.11b/g Wi-Fi board with built-in antenna
M/N:	WIFI-3236AB-RUFA
Test Date:	Nov.23, 2007
Ambient Temperature:	23℃
Relative Humidity:	60%
Test standard:	FCC PART 15C: 15.247
Test mode:	IEEE 802.11b TX/ IEEE 802.11g TX
Data rate:	11Mbps for IEEE802.11b, 54Mbps for IEEE802.11g
Test Frequency:	CH1: 2412MHz CH6: 2437MHz CH11: 2462MHz
Tested By:	Jamy

5.3.Test Procedure

The transmitter output was coupled to a spectrum analyzer via a horn antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is lower than peak power minus 6dB.

5.4. Test Results

Test Mode: IEEE 802.11b TX

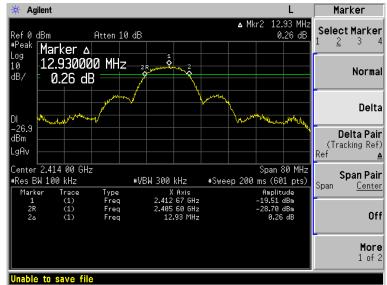
СН	6dB Bandwidth (MHz)	Limit(KHz)	Conclusion
1	12.93	>500	PASS
6	12.80	>500	PASS
11	13.60	>500	PASS

Test Mode: IEEE 802.11g TX

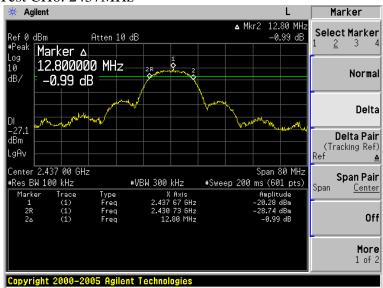
	<u> </u>										
СН	6dB Bandwidth (MHz) Limit(KHz)		Conclusion								
1	16.53	>500	PASS								
6	16.53	>500	PASS								
11	16.27	>500	PASS								

Test Mode: IEEE 802.11b TX

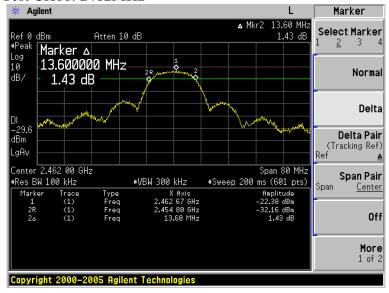




Test CH6: 2437MHz

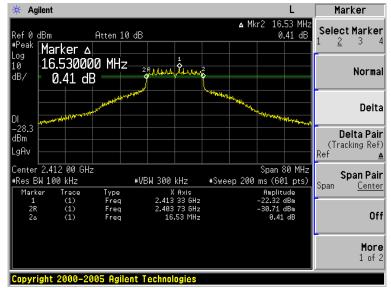


Test CH11: 2462MHz

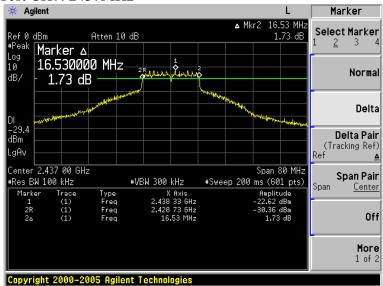


Test Mode: IEEE 802.11g TX

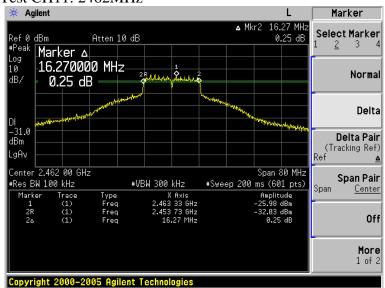
Test CH1: 2412MHz



Test CH7: 2437MHz



Test CH11: 2462MHz



6. OUTPUT POWER TEST

6.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Model No. Serial No.		Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	E4446A US44300459		1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Jan, 23, 06	1.5 Year
3	Horn Antenna	EMCO	3115	9510-4580	Dec, 12, 06	1.5 Year
4	Signal Generator	HP	83732B	6K00003262	May,11, 07	1 Year
5	RF Cable	MIYAZAKI	8D-FB	No.1	May,11, 07	1/2 Year
6	RF Cable	MIYAZAKI	8D-FB	No.2	May,11, 07	1/2 Year
7	RF Cable	MIYAZAKI	8D-FB	No.3	May,11, 07	1/2 Year
8	Amplifier	HP	8449B	3008A00863	May,11, 07	1 Year

6.2.Test Information

EUT:	Module 3236ab: 802.11b/g Wi-Fi board with built-in antenna
M/N:	WIFI-3236AB-RUFA
Test Date:	Nov.27, 2007
Ambient Temperature:	23℃
Relative Humidity:	60%
Test standard:	FCC PART 15C: 15.247
Test mode:	IEEE 802.11b TX/ IEEE 802.11g TX
Data rate:	11Mbps for IEEE802.11b, 54Mbps for IEEE802.11g
Test Frequency:	CH1: 2412MHz CH6: 2437MHz CH11: 2462MHz
Tested By:	Jamy

6.3. Test Procedure

- (1). The EUT was placed on a 1.5m high table in the chamber and turned on in continuously transmitting mode.
- (2). The maximum fundamental emission at 3m distance was measured and recorded with receive antenna in both vertical and horizontal by rotating the turntable and by lowering the receive antenna.
- (3). The EUT was then removed and replaced with a substitution antenna in the same position and the substitution antenna must have the same polarization with the receive antenna.
- (4). A signal which have the same frequency obtained in step 2 was fed to the substitution, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver, the level of the signal generator was adjusted until the measured field strength level in step 2 was obtained, recorded the level of the signal generator.
- (5). Repeated step 4 with both antenna polarizations
- (6). The radiated power is equal to the power supplied by the signal generator and corrections due to the gain of the substitution antenna and the cable loss between the signal generator and the substitution antenna.

6.4. Test Results

Test r	Test mode: IEEE802.11b Tx Mode Antenna Gain:0dBi								
СН	Freq (MHz)	Ant Pol.	Electric Field Strength (dBuV/m)	SG Reading (dBm)	Tx Cable Loss (dB)	Tx Ant. Gain (dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
1	2412.0	Н	107.42	7.77	5.47	9.32	11.72	30	19.98
1	2412.0	V	99.45	-1.62	5.47	9.32	2.23	30	27.77
6	2437.0	Н	106.93	7.3	5.50	9.45	11.25	30	19.75
	2437.0	V	98.56	-0.91	5.50	9.45	3.04	30	26.96
11	2462.0	Н	108.92	8.25	5.55	9.58	12.28	30	19.52
11	2462.0	V	99.67	-0.44	5.55	9.58	3.59	30	26.41
Test r	node: IEI	EE802	2.11g Tx M	ode Ant	tenna Gain:0c	lBi			
1	2412	Н	108.18	7.87	5.47	9.32	11.72	30	20.28
1	2412	V	98.92	-2.17	5.47	9.32	1.68	30	28.32
6	2437	Н	106.65	7.94	5.50	9.45	11.89	30	20.11
0	2437	V	97.68	-1.55	5.50	9.45	2.40	30	27.6
11	2462	Н	107.13	7.34	5.55	9.58	12.37	30	20.53
11	2462	V	97.56	-2.14	5.55	9.58	1.89	30	28.11

Result = SG Reading – Tx Cable Loss + Tx Antenna Gain

Rx-Antenna: Horn Antenna Tx-Antenna: Horn Antenna

7. BAND EDGE COMPLIANCE TEST

7.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
						Interval
1	Spectrum	Agilent	E4446A	US44300459	May,11, 07	1 Year
	Analyzer					
2	Amp	HP	8449B	3008A00863	May 11, 07	1 Year
3	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4	HF Cable	Hubersuhne	Sucoflex 104	_	May 11, 07	1 Year

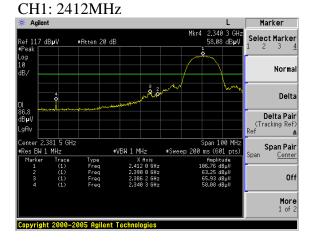
7.2.Test Information

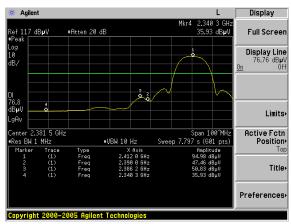
EUT:	Module 3236ab: 802.11b/g Wi-Fi board with built-in antenna
M/N:	WIFI-3236AB-RUFA
Test Date:	Nov.27, 2007
Ambient Temperature:	23°C
Relative Humidity:	60%
Test standard:	FCC PART 15C: 15.247
Test mode:	IEEE 802.11b TX/ IEEE 802.11g TX
Data rate:	11Mbps for IEEE802.11b, 54Mbps for IEEE802.11g
Test Frequency:	CH1: 2412MHz CH11: 2462MHz
Test By:	Jamy

7.3.Test Results

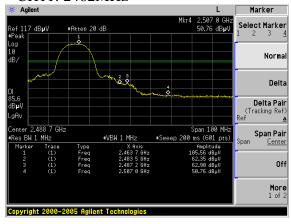
Pass (The EUT was tested and all the test results are listed in next pages.)

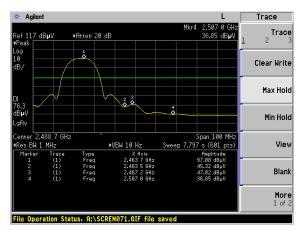
Test mode: IEEE 802.11b TX





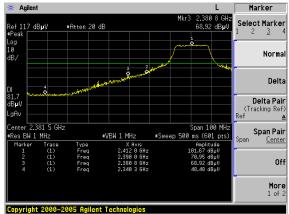
CH11: 2462MHz

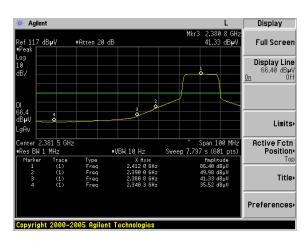




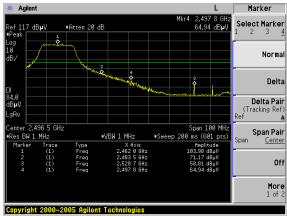
Test mode: IEEE 802.11g TX

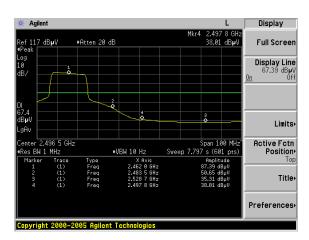
CH1: 2412MHz





CH11: 2462MHz





8. POWER SPECTRAL DENSITY TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May,11, 07	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Jan, 23, 06	1.5 Year
3	Horn Antenna	EMCO	3115	9510-4580	Dec, 12, 06	1.5 Year
4	Signal Generator	HP	83732B	6K00003262	May,11, 07	1 Year
5	RF Cable	MIYAZAKI	8D-FB	No.1	May,11, 07	1/2 Year
6	RF Cable	MIYAZAKI	8D-FB	No.2	May,11, 07	1/2 Year
7	RF Cable	MIYAZAKI	8D-FB	No.3	May,11, 07	1/2 Year
8	Amplifier	HP	8449B	3008A00863	May,11, 07	1 Year

8.2.Test Information

EUT:	Module 3236ab: 802.11b/g Wi-Fi board with built-in antenna
M/N:	WIFI-3236AB-RUFA
Test Date:	Nov.27, 2007
Ambient Temperature:	23°C
Relative Humidity:	60%
Test standard:	FCC PART 15C: 15.247
Test mode:	IEEE 802.11b TX/ IEEE 802.11g TX
Data rate:	11Mbps for IEEE802.11b, 54Mbps for IEEE802.11g
Test Frequency:	CH1: 2412MHz CH6: 2437MHz CH11: 2462MHz
Test By:	Jamy

8.3.Test Procedure

The transmitter output was coupled to a spectrum analyzer via a horn antenna in anechoic chamber. The maximum power density level at 3m was measured by spectrum analyzer with 3 kHz RBW and 30kHz VBW, sweep time=span/3kHz. Record this level with test antenna in horizontal and vertical polarization. Use substitution measurements as clause 6.3 to measured out the power density.

8.4. Test Results

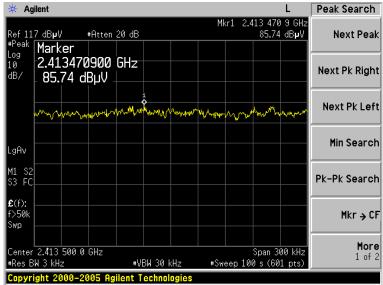
Test 1	Test mode: IEEE802.11b Tx Mode Antenna Gain:0dBi								
СН	Freq (MHz)	Ant Pol.	Read level At 3m (dBuV/m)	SG Reading (dBm)	Tx Cable Loss (dB)	Tx Ant. Gain (dBi)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
1	2412.0	Н	85.74	-14.86	5.47	9.32	-11.01	8	19.01
6	2437.0	Н	84.98	-15.04	5.50	9.45	-11.09	8	19.09
11	2462.0	Н	86.97	-13.58	5.55	9.58	-9.55	8	17.55
Test I	Test Mode: IEEE802.11g Tx Mode Antenna Gain:0dBi								
1	2412	Н	84.37	-16.18	5.47	9.32	-12.33	8	20.33
6	2437	Н	82.29	-17.66	5.50	9.45	-13.71	8	21.71
11	2462	Н	81.19	-19.36	5.55	9.58	-15.33	8	23.33

Note: The read level when test antenna in vertical was below that when test antenna in horizontal polarization, so only the Horizontal polarization level were recorded.

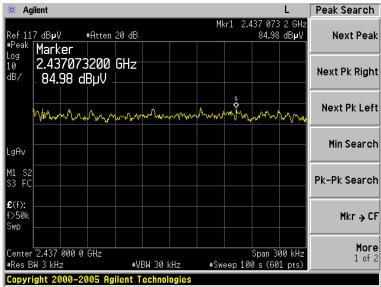
Result = SG Reading – Tx Cable Loss + Tx Antenna Gain

Rx-Antenna: Horn Antenna Tx-Antenna: Horn Antenna Test Mode: IEEE 802.11b TX

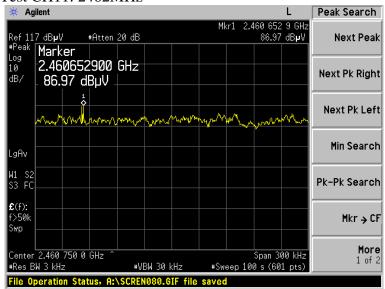
Test CH1: 2412MHz



Test CH6: 2437MHz

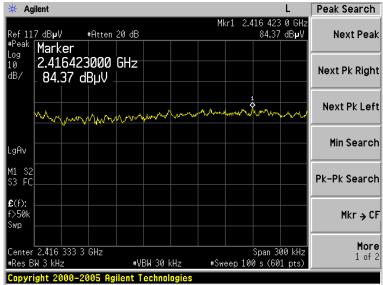


Test CH11: 2462MHz

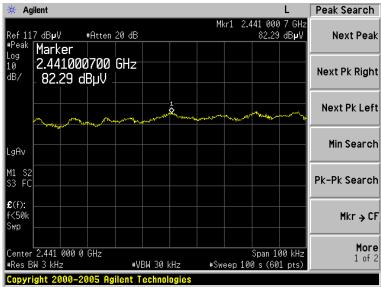


Test Mode: IEEE 802.11g TX

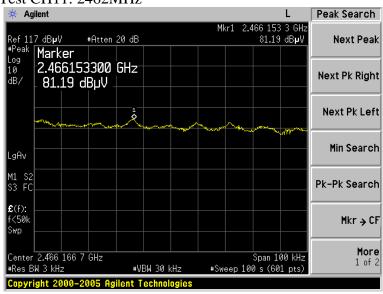
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



9. MPE ESTIMATION

9.1.Limit for General Population / Uncontrolled Exposures

Frequency	Power density (mW/cm²)	Averaging time (minutes)
300MHz~1.5GHz	F/1500	30
1.5GHz~100GHz	1.0	30

Frequency (MHz)	Power density (mW/cm²)	Averaging time (minutes)
2412	1.0	30
2437	1.0	30
2462	1.0	30

Note: F = Frequency in MHz

9.2. Estimation Result

2.1 IEEE 802.11b Mode

Channel	Frequency(MHz)	Peak output	antenna	antenna gain
		power(dBm)	gain(dBi)	(Linear)
1	2412	11.72	0	1
6	2437	11.25	0	1
11	2462	12.28	0	1

Channel	Frequency(MHz)	Peak output power to antenna	Power density at
		(mW)	$20 \text{cm} (\text{mW/cm}^2)$
1	2412	14.86	0.0029
6	2437	13.34	0.0027
11	2462	16.90	0.0034

2.2 IEEE 802.11g Mode

Channel	Frequency(MHz)	Peak output power(dBm)	antenna gain(dBi)	antenna gain (Linear)
1	2412	11.72	0	1
6	2437	11.89	0	1
11	2462	12.37	0	1

Channel	Frequency(MHz)	Peak output power to antenna	Power density at
		(mW)	$20 \text{cm}(\text{mW/cm}^2)$
1	2412	14.86	0.0029
6	2437	15.45	0.0031
11	2462	17.26	0.0034

10.ANTENNA REQUIREMENT

10.1 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 transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used for this product is PCB integral antenna and no antenna other than that furnished by the responsible party can be used with the device . The maximum peak $Gain\ of\ this\ antenna\ is\ 0\ dBi.$

11.DEVIATION TO TEST SPECIFICATIONS

[NONE]