SPORTON International Inc.

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FCC RADIO TEST REPORT

Applicant's company	Advantage Century Telecommunication Corp
Applicant Address	4F, No.41, Tung-Sing Rd., Taipei, Taiwan, R.O.C.
FCC ID	S9QP204S
Manufacturer's company	Top Union Electronics Corp.
Manufacturer Address	480, Nioupu E. Rd., Hshinchu City, Taiwan

Product Name	WIFI PHONE
Brand Name	ACT
Model Name	P204S
Test Rule	47 CFR FCC Part 15 Subpart C § 15.247
Test Freq. Range	2400 ~ 2483.5MHz
Receive Date	June. 12, 2006
Final Test Date	June. 26, 2006
Submission Type	Original Equipment



Statement

Test result included is only for the 802.11b/g part of the product.

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full. The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in ANSI C63.4-2003 and 47 CFR FCC Part 15 Subpart C. The test equipment used to perform the test is calibrated and traceable to NML/ROC.

Lab Code: 200079-0

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Issued Date : July 3, 2006

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History of This Test Report

Original Issue	Date: .	July 3,	2006
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Report No.: FR661201

■ No additional attachment.

Additional attachment were issued as following record:

Attachment No.	Issue Date	Description

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1. CERTIFICATE OF COMPLIANCE

Product Name :

WIFI PHONE

Brand Name :

ACT

Model Name :

P204S

Applicant :

Advantage Century Telecommunication Corp

Test Rule Part(s): 47 CFR FCC Part 15 Subpart C § 15.247

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on June. 12, 2006 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.

Jacky Luo / Specialist

Carl Lee / Engineer

pared By:

Carl Lee 5.7.06

Reviewed By:

Wavne Hsu

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2. SUMMARY OF THE TEST RESULT

	Applied Standard: 47 CFR FCC Part 15 Subpart C				
Part	Part Rule Section Description of Test			Under Limit	
4.1	15.207	AC Power Line Conducted Emissions	Complies	16.39 dB	
4.2	15.247(b)(3)	Maximum Peak Conducted Output Power	Complies	13.16 dB	
4.3	15.247(e)	Power Spectral Density	Complies	17.47 dB	
4.4	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-	
4.5	15.247(d)	Radiated Emissions	Complies	0.61 dB	
4.6	15.247(d)	Band Edge Emissions	Complies	3.91 dB	
4.7	15.203	Antenna Requirements	Complies	-	

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.26dB	Confidence levels of 95%
Maximum Peak Conducted Output Power	±0.5dB	Confidence levels of 95%
Power Spectral Density	±0.71dB	Confidence levels of 95%
6dB Spectrum Bandwidth	±6.25×10-7	Confidence levels of 95%
Radiated Emissions/ Band Edge Emissions	±3.72dB	Confidence levels of 95%

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3. GENERAL INFORMATION

3.1. Product Details

EUT is a WIFI PHONE with IEEE 802.11b/g radio functions. Only the RF detail of EUT is shown in the table below. For more detailed features description, please refer to the manufacturer's specifications or user's manual.

Items	Description
Power Type	5V DC from Adapter & 3.7V DC from Battery
Modulation	DSSS for IEEE 802.11b; OFDM for IEEE 802.11g
Data Modulation	DSSS (BPSK / QPSK / CCK); OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps)	DSSS (1/ 2/ 5.5/11); OFDM (6/9/12/18/24/36/48/54)
Frequency Range	2400 ~ 2483.5MHz
Channel Number	11
Channel Band Width (99%)	11b: 14.44 MHz ; 11g: 16.36 MHz
Conducted Output Power	11b: 16.84 dBm ; 11g: 12.18 dBm

3.2. Accessories

Power	Brand	Model	Rating
Adapter 1	JENTEC	AF0605-B	INPUT: 100~240V AC
			OUTPUT: 5V DC

3.3. Table for Filed Antenna

Ant.	Antenna Type	Connector	Gain (dBi)
1	CHIP Antenna (Internal)	FIX	2.00

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3.4. Table for Carrier Frequencies

Freqeuncy Band	Channel No.	Frequency	Channel No.	Frequency
	1	2412 MHz	7	2442 MHz
	2	2417 MHz	8	2447 MHz
0400 0402 51411-	3	2422 MHz	9	2452 MHz
2400~2483.5MHz	4	2427 MHz	10	2457 MHz
	5	2432 MHz	11	2462 MHz
	6	2437 MHz		

3.5. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel	Antenna
AC Power Line Conducted Emissions	Charging Mode	11 Mbps	6	1
Maximum Peak Conducted Output Power	11b/CCK	11 Mbps	1/6/11	NA
Power Spectral Density	11g/BPSK	6 Mbps	1/6/11	NA
6dB Spectrum Bandwidth				
Radiated Emissions 9kHz~1GHz	11g/BPSK	6 Mbps	6	1
Radiated Emissions 1GHz~10 th Harmonic	11b/CCK	11 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
Band Edge Emissions	11b/CCK	11 Mbps	1/11	1
	11g/BPSK	6 Mbps	1/11	1

3.6. Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
03CH03-HY	SAC	Hwa Ya	101377	IC 4088	-
CO04-HY	Conduction	Hwa Ya	101377	IC 4088	-
TH01-HY	OVEN Room	Hwa Ya	-	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC); Fully Anechoic Chamber (FAC).

Please refer section 6 for Test Site Address.

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3.7. Table for Supporting Units

Support Unit	Brand	Model	FCC ID	Remark
AP	Dilini	DNC C100	0.0	
(CO)	D-Link	DNS-G120	DoC	-
Notebook	ACER	-	-	Provided by customer
Earphone	-	-	-	Provided by customer
Test Fixture	-	-	-	Provided by customer
Phone		D10401D		Provided by customer
(CO)	(CO) - P104SLD	-		

3.8. Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters of IEEE 802.11b/g

Test Software Version		WLANGUI	
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	50	50	50
IEEE 802.11g	50	50	50

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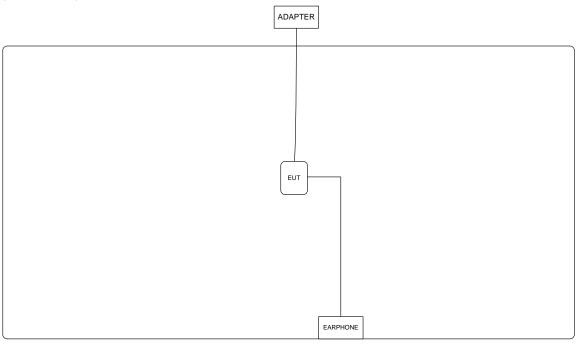




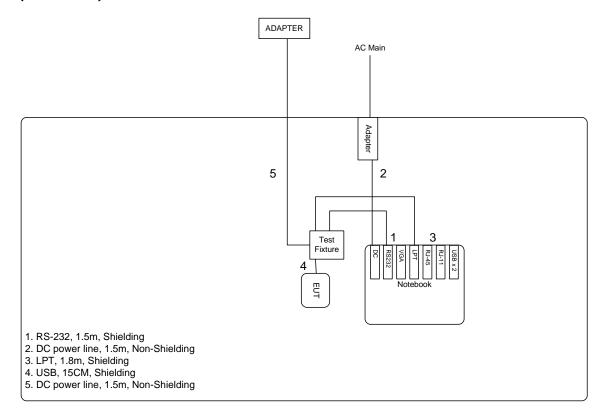
3.9. Test Configurations

3.9.1. Radiation Emissions Test Configuration

(9kHz~1GHz)



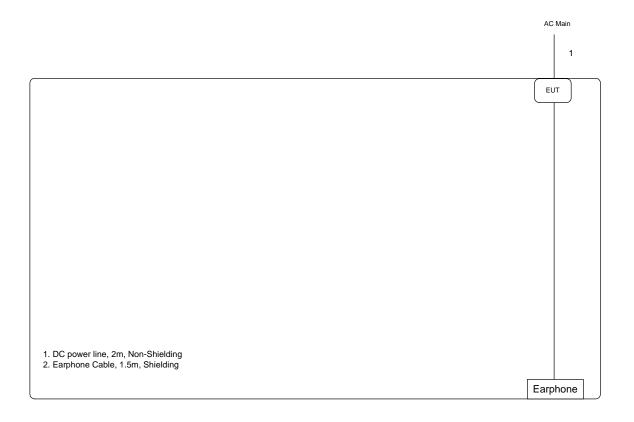
(Above 1GHz)



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3.9.2. AC Power Line Conduction Emissions Test Configuration



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4. TEST RESULT

4.1. AC Power Line Conducted Emissions Measurement

4.1.1. Limit

For a Low-power Radio-frequency Device which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

4.1.2. Measuring Instruments and Setting

Please refer to section 5 in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

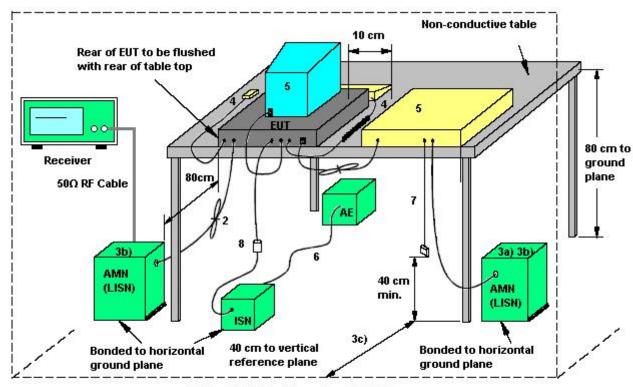
4.1.3. Test Procedures

- Configure the EUT according to ANSI C63.4. The EUT or host of EUT has to be placed 0.4 meter far
 from the conducting wall of the shielding room and at least 80 centimeters from any other
 grounded conducting surface.
- 2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohm coupling impedance.
- 4. The frequency range from 150 kHz to 30 MHz was searched.
- 5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. The measurement has to be done between each power line and ground at the power terminal.

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4.1.4. Test Setup Layout



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

- If cables, which hang closer than 40 cm to the horizontal metal groundplane, cannot be shortened to appropriate length, the excess shall be folded back and forth forming a bundle 30 cm to 40 cm long.
- 2. Excess mains cord shall be bundled in the centre or shortened to appropriate length.
- 3. EUT is connected to one artificial mains network (AMN). All AMNs and ISNs may alternatively be connected to a vertical reference plane or metal wall.
- 4. All other units of a system are powered from a second AMN. A multiple outlet strip can be used for multiple mains cords.
- 5. AMN and ISN are 80 cm from the EUT and at least 80 cm from other units and other metal planes.
- 6. Mains cords and signal cables shall be positioned for their entire lengths, as far as possible, at 40 cm from the vertical reference plane.
- 7. Cables of hand operated devices, such as keyboards, mouses, etc. shall be placed as for normal usage.
- 8. Peripherals shall be placed at a distance of 10 cm from each other and from the controller, except for the monitor which, if this is an acceptable installation practice, shall be placed directly on the top of the controller.
- 9. I/O signal cable intended for external connection.
- 10. The end of the I/O signal cables which are not connected to an AE may be terminated, if required, using correct terminating impedance.
- 11. If used, the current probe shall be placed at 0,1 m from the ISN.

4.1.5. Test Deviation

There is no deviation with the original standard.

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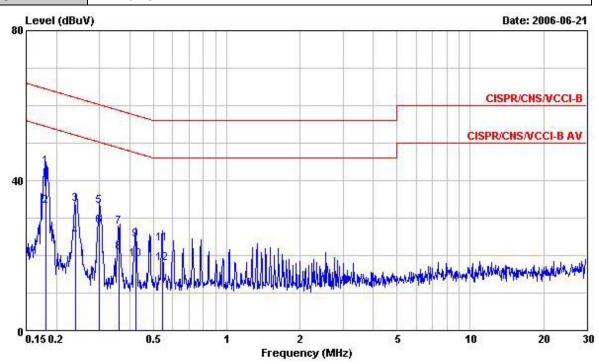


4.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

4.1.7. Results of AC Power Line Conducted Emissions Measurement

Temperature	27 ℃	Humidity	46%
Test Engineer	Ted Chiu	Phase	Line
Configuration	Charging Mode		



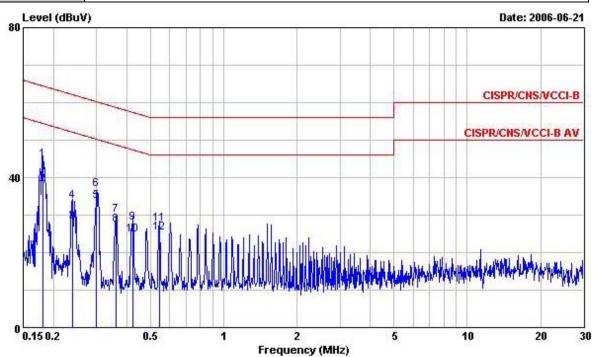
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	-
1	0.1808880	43.71	-20.73	64.44	43.57	0.10	0.04	QP
2	0.1808880	33.28	-21.16	54.44	33.14	0.10	0.04	Average
3	0.2403720	33.61	-28.47	62.08	33.45	0.10	0.06	QP
4	0.2403720	24.89	-27.19	52.08	24.73	0.10	0.06	Average
5	0.3002800	33.22	-27.02	60.24	33.04	0.10	0.08	QP
6	0.3002800	28.02	-22.22	50.24	27.84	0.10	0.08	Average
7	0.3619320	27.54	-31.14	58.68	27.34	0.10	0.10	QP
8	0.3619320	20.89	-27.79	48.68	20.69	0.10	0.10	Average
9	0.4214950	24.16	-33.26	57.42	23.92	0.10	0.14	QP
10	0.4214950	18.89	-28.53	47.42	18.65	0.10	0.14	Average
11	0.5435530	23.21	-32.79	56.00	22.80	0.10	0.31	QP
12	0.5435530	17.88	-28.12	46.00	17.47	0.10	0.31	Average

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Temperature	27 ℃	Humidity	46%
Test Engineer	Ted Chiu	Phase	Neutral
Configuration	Charging Mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	-
1	0.1815120	44.66	-19.76	64.42	44.52	0.10	0.04	QP
2	0.1815120	38.03	-16.39	54.42	37.89	0.10	0.04	Average
3	0.2403720	28.17	-23.91	52.08	28.01	0.10	0.06	Average
4	0.2403720	33.59	-28.49	62.08	33.43	0.10	0.06	QP
5	0.3002900	33.65	-16.58	50.23	33.47	0.10	0.08	Average
6	0.3002900	36.72	-23.51	60.23	36.54	0.10	0.08	QP
7	0.3620920	30.13	-28.55	58.68	29.93	0.10	0.10	QP
8	0.3620920	27.33	-21.35	48.68	27.13	0.10	0.10	Average
9	0.4214950	27.91	-29.51	57.42	27.67	0.10	0.14	QP
10	0.4214950	24.82	-22.60	47.42	24.58	0.10	0.14	Average
11	0.5433900	27.52	-28.48	56.00	27.11	0.10	0.31	QP
12	0.5433900	25.15	-20.85	46.00	24.74	0.10	0.31	Average

Note:

Level = Read Level + LISN Factor + Cable Loss.

4.2. Maximum Peak Output Power Measurement

4.2.1. Limit

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. The limited has to be reduced by the amount in dB that the gain of the antenna exceed 6dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

4.2.2. Measuring Instruments and Setting

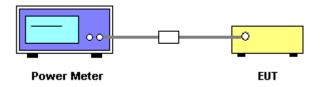
Please refer to section 5 in this report. The following table is the setting of the power meter.

Power Meter Parameter	Setting
Filter No.	Auto
Measurement time	0.135 s ~ 26 s
Used Peak Sensor	NRV-Z32 (model 04)

4.2.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the power meter.
- 2. Turn on the EUT and power meter and then record the peak power value.
- 3. Repeat above procedures on all channels needed to be tested.

4.2.4. Test Setup Layout



4.2.5. Test Deviation

There is no deviation with the original standard.

4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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4.2.7. Test Result of Maximum Peak Output Power

Temperature	27 ℃	Humidity	52%
Test Engineer	Sam Lee	Configurations	802.11b/g

Configuration IEEE 802.11b

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.84	30.00	Complies
6	2437 MHz	16.42	30.00	Complies
11	2462 MHz	15.87	30.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	11.94	30.00	Complies
6	2437 MHz	12.18	30.00	Complies
11	2462 MHz	11.60	30.00	Complies

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4.3. Power Spectral Density Measurement

4.3.1. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.3.2. Measuring Instruments and Setting

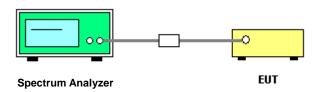
Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	1.5MHz
RB	3 kHz
VB	30 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	500s

4.3.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyser.
- 2. Set RBW of spectrum analyzer to 3kHz and VBW to 30kHz. Set Detector to Peak, Trace to Max Hold.
- 3. Mark the frequency with maximum peak power as the center of the display of the spectrum.
- 4. Set the span to 1.5MHz and the sweep time to 500s and record the maximum peak value.

4.3.4. Test Setup Layout



4.3.5. Test Deviation

There is no deviation with the original standard.

4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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4.3.7. Test Result of Power Spectral Density

Temperature	27 ℃	Humidity	52%
Test Engineer	Sam Lee	Configurations	802.11b/g

Configuration IEEE 802.11b

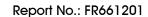
Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-9.47	8.00	Complies
6	2437 MHz	-9.67	8.00	Complies
11	2462 MHz	-10.07	8.00	Complies

Configuration IEEE 802.11g

Channel	Frequency	Power Density (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	-13.92	8.00	Complies
6	2437 MHz	-12.64	8.00	Complies
11	2462 MHz	-13.67	8.00	Complies

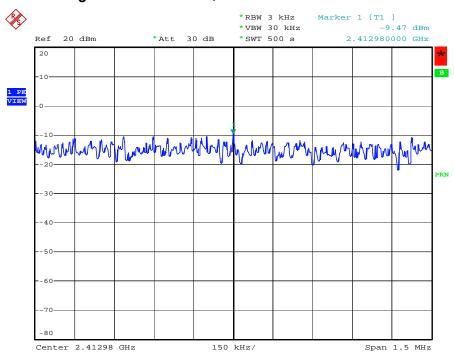
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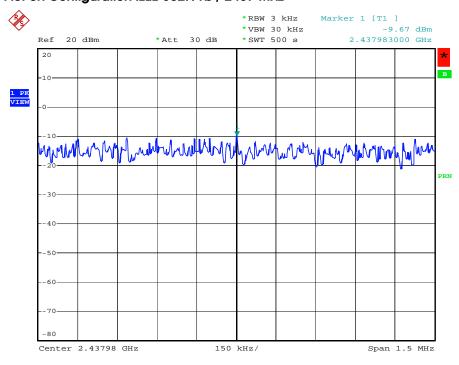


Power Density Plot on Configuration IEEE 802.11b / 2412 MHz



Date: 26.JUN.2006 12:10:36

Power Density Plot on Configuration IEEE 802.11b / 2437 MHz



Date: 26.JUN.2006 12:12:50

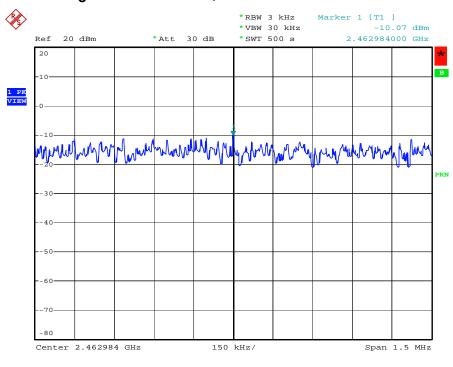
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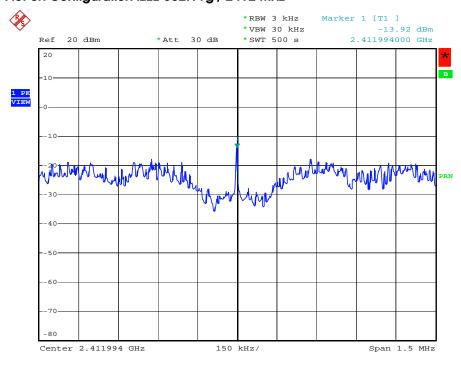


Power Density Plot on Configuration IEEE 802.11b / 2462 MHz



Date: 26.JUN.2006 12:29:39

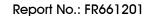
Power Density Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 26.JUN.2006 14:45:51

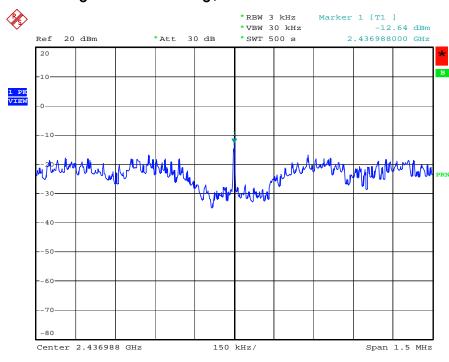
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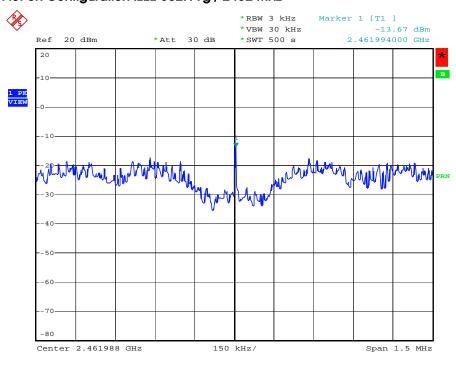


Power Density Plot on Configuration IEEE 802.11g / 2437 MHz



Date: 26.JUN.2006 14:38:47

Power Density Plot on Configuration IEEE 802.11g / 2462 MHz



Date: 26.JUN.2006 14:33:55

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4.4. 6dB Spectrum Bandwidth Measurement

4.4.1. Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

4.4.2. Measuring Instruments and Setting

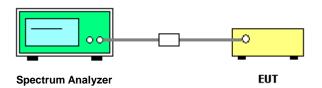
Please refer to section 5 in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.4.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- 2. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were used.
- 3. Measured the spectrum width with power higher than 6dB below carrier.

4.4.4. Test Setup Layout



4.4.5. Test Deviation

There is no deviation with the original standard.

4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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4.4.7. Test Result of 6dB Spectrum Bandwidth

Temperature	27 ℃	Humidity	52%
Test Engineer	Sam Lee	Configurations	802.11b/g

Configuration IEEE 802.11b

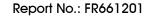
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	9.20	14.36	500	Complies
6	2437 MHz	9.16	14.44	500	Complies
11	2462 MHz	9.16	14.36	500	Complies

Configuration IEEE 802.11g

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	15.68	16.32	500	Complies
6	2437 MHz	15.84	16.32	500	Complies
11	2462 MHz	15.68	16.36	500	Complies

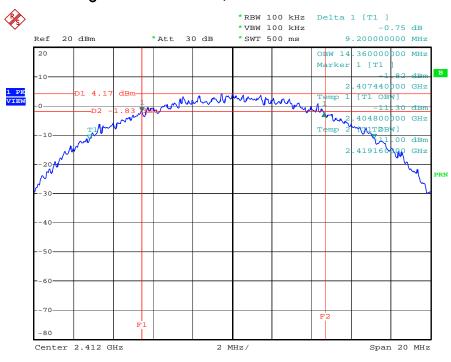
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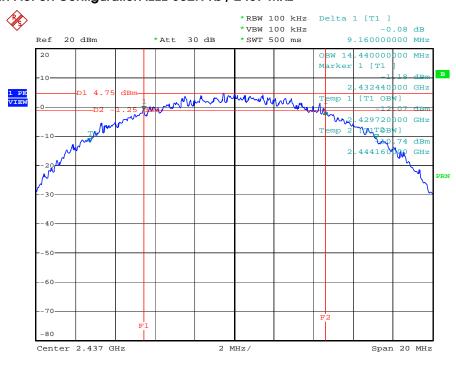


6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2412 MHz



Date: 26.JUN.2006 11:47:03

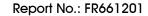
6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2437 MHz



Date: 26.JUN.2006 12:14:19

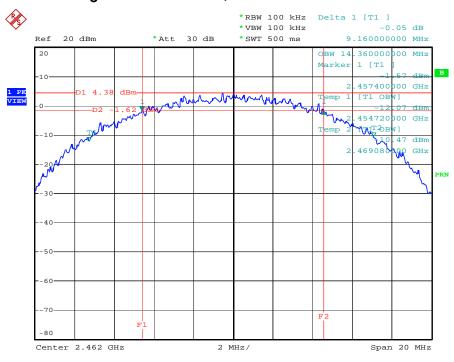
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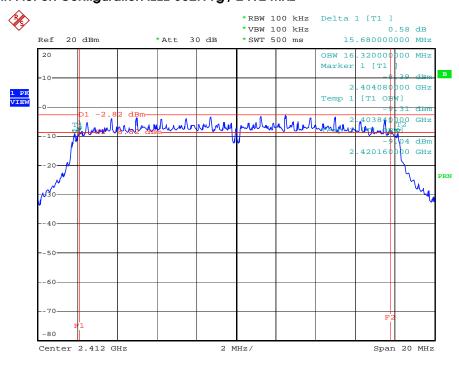


6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2462 MHz

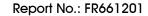


Date: 26.JUN.2006 12:20:23

6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2412 MHz

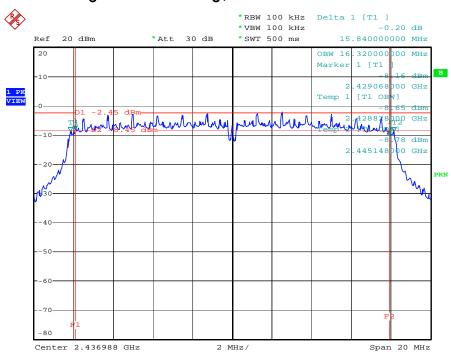


Date: 26.JUN.2006 14:43:41



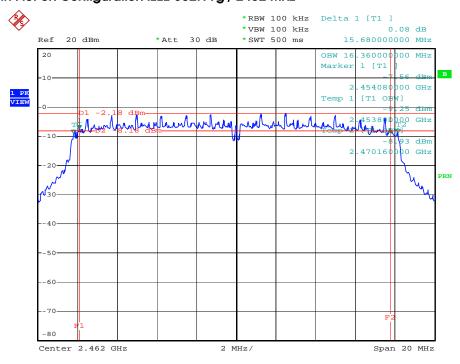


6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz



Date: 26.JUN.2006 14:40:13

6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2462 MHz



Date: 26.JUN.2006 12:42:07

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4.5. Radiated Emissions Measurement

4.5.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.5.2. Measuring Instruments and Setting

Please refer to section 5 in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	100KHz / 100KHz for peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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4.5.3. Test Procedures

Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8
meter above ground. The phase center of the receiving antenna mounted on the top of a
height-variable antenna tower was placed 3 meters far away from the turntable.

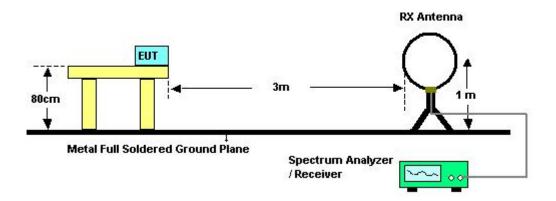
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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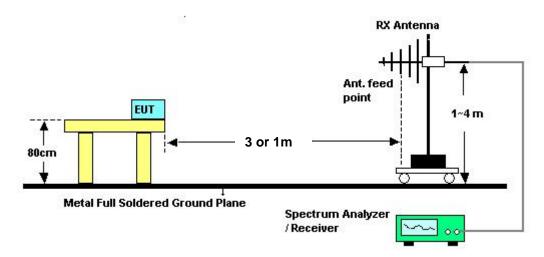
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4.5.4. Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.

Distance extrapolation factor = 20 log (specific distanc [3m] / test distance [1m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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4.5.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	25.9 ℃	Humidity	50%
Test Engineer	Kay		

Freq.	Level	Over Limit	Limit Line	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

 $\label{limit} \mbox{Limit line} = \mbox{specific limits (dBuV)} + \mbox{distance extrapolation factor}.$

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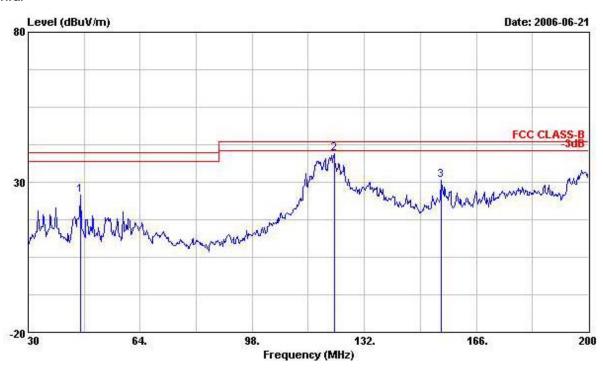
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4.5.8. Results of Radiated Emissions (30MHz~1GHz)

Temperature	25.9℃	Humidity	50%
Test Engineer	Kay	Configurations	802.11g Channel 6

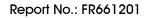
Horizontal



			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	45.980	25.81	-14.19	40.00	42.89	12.19	0.80	30.07	Peak
2 @	122.820	39.65	-3.85	43.50	55.94	12.07	1.69	30.05	Peak
3 @	155.460	30.70	-12.80	43.50	46.85	12.28	1.76	30.19	Peak

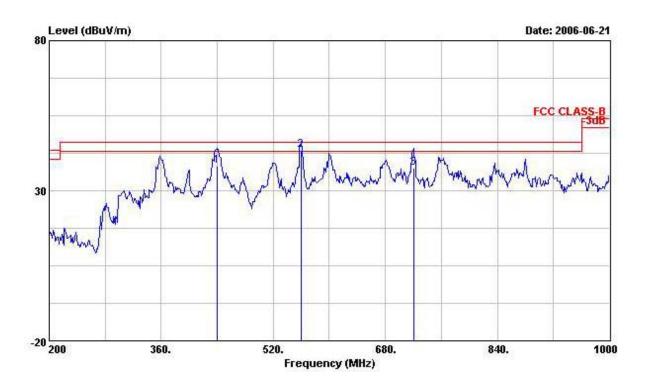
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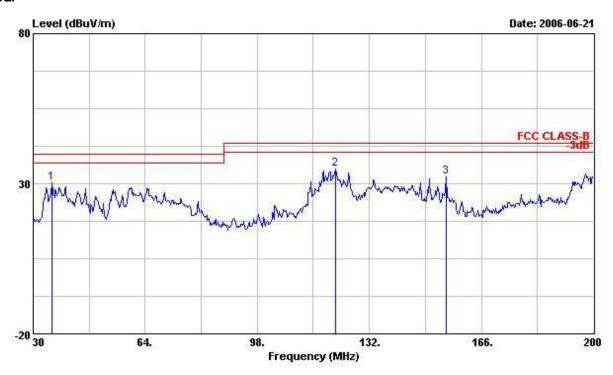




			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	uV/m dB dBuV/m dBuV dB/m d	dB	dB	-			
1 0	439.200	38.19	-7.81	46.00	48.19	16.49	3.59	30.07	QP
2 @	560.000	43.58	-2.42	46.00	50.75	18.63	4.26	30.07	QP
3 @	720.000	37.45	-8.55	46.00	41.57	20.95	4.71	29.78	QP

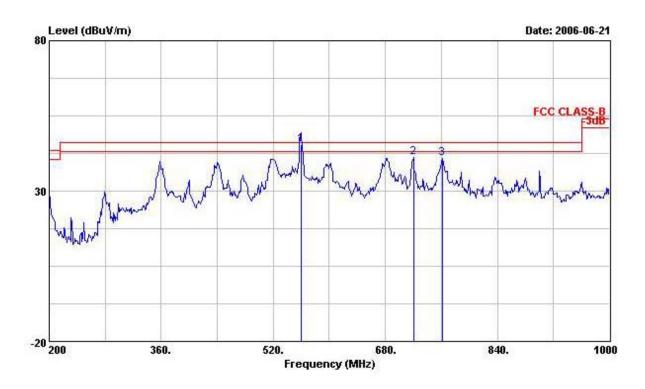


Vertical



				0ver	Limit	Readi	Antenna	Cable	Preamp	
		Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	·
1	0	35.780	30.37	-9.63	40.00	47.88	12.02	0.50	30.03	Peak
2	@	121.630	34.82	-8.68	43.50	51.19	12.00	1.68	30.05	Peak
3	0	155.460	32.45	-11.05	43.50	48.60	12.28	1.76	30.19	Peak





		Freq	Level	Over Limit			Antenna Factor			Remark
		MHz	dBuV/m	dB	$\overline{\mathtt{dBuV/m}}$	dBuV	dB/m	dB	dB	-
1	0	560.000	45.39	-0.61	46.00	52.56	18.63	4.26	30.07	QP
2	@	720.000	41.07	-4.93	46.00	45.19	20.95	4.71	29.78	Peak
3	0	761.600	40.76	-5.24	46.00	44.17	21.44	4.92	29.78	Peak

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

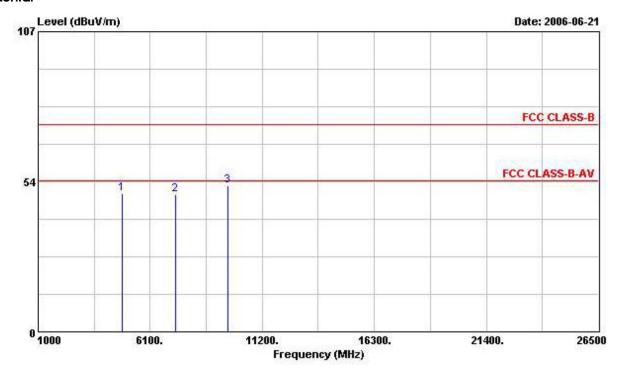
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.



4.5.9. Results for Radiated Emissions (1GHz \sim 10th Harmonic)

Temperature	25.9℃	Humidity	50%
Test Engineer	Kay	Configurations	802.11b Channel 1

Horizontal



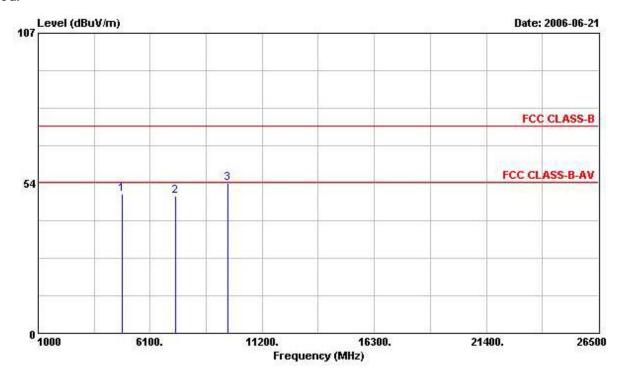
			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4824.000	49.33	-24.67	74.00	45.41	33.09	3.15	32.32	Peak
2	7236.000	48.98	-25.02	74.00	41.42	35.98	4.15	32.57	Peak
3	9648.000	52.16	-21.84	74.00	41.96	38.58	4.42	32.80	Peak

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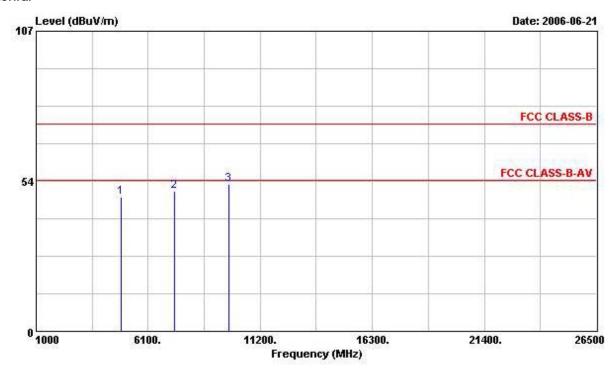


Vertical



			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	G-
1	4828.000	49.54	-24.46	74.00	45.63	33.09	3.15	32.32	Peak
2	7236.000	49.07	-24.93	74.00	41.50	35.98	4.15	32.57	Peak
3 @	9648.000	53.54	-20.46	74.00	43.34	38.58	4.42	32.80	Peak

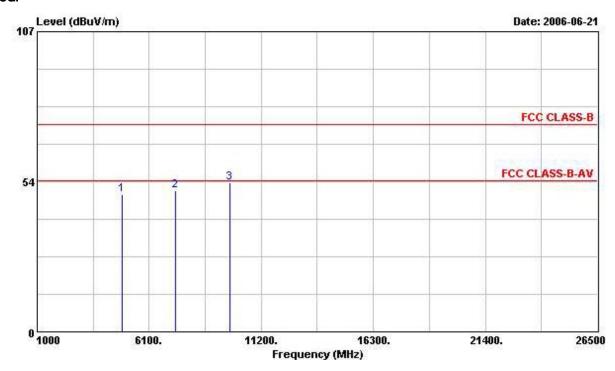
Temperature	25.9℃	Humidity	50%
Test Engineer	Kay	Configurations	802.11b Channel 6



			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line		Factor dB/m	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m				dB	
1	4876.000	48.03	-25.97	74.00	43.98	33.18	3.16	32.30	Peak
2	7311.000	50.15	-23.85	74.00	42.41	36.14	4.18	32.59	Peak
3	9748.000	52.55	-21.45	74.00	42.13	38.77	4.44	32.80	Peak

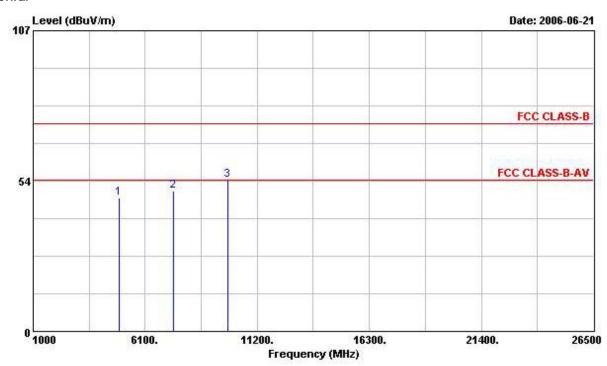


Vertical



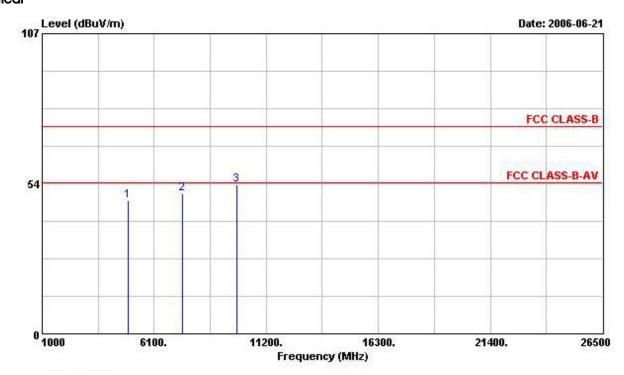
			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	48.90	-25.10	74.00	44.85	33.18	3.16	32.30	Peak
2	7311.000	50.25	-23.75	74.00	42.52	36.14	4.18	32.59	Peak
3 @	9748.000	53.23	-20.77	74.00	42.82	38.77	4.44	32.80	Peak

Temperature	25.9℃	Humidity	50%
Test Engineer	Kay	Configurations	802.11b Channel 11



			0ver	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4924.000	47.55	-26.45	74.00	43.36	33.28	3.19	32.28	Peak
2	7386.000	49.88	-24.12	74.00	41.95	36.35	4.21	32.63	Peak
3 @	9848.000	53.80	-20.20	74.00	43.19	38.92	4.48	32.79	Peak

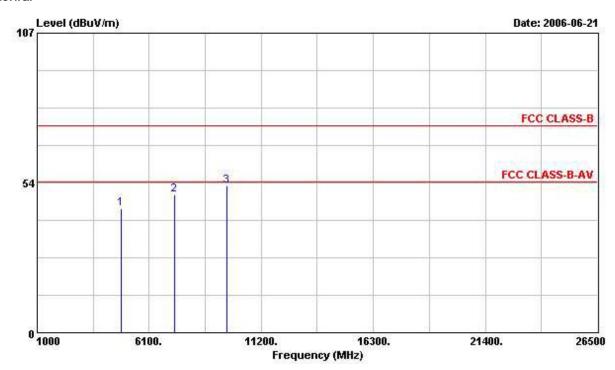




			0ver	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Level Limit Line Level Factor Loss BuV/m dB dBuV/m dBuV dB/m dE	Loss	Factor	Remark			
	MHz	dBuV/m		dBuV/m	dBuV	dB/m	dB	dB	
1	4924.000	47.39	-26.61	74.00	43.21	33.28	3.19	32.28	Peak
2	7386.000	50.14	-23.86	74.00	42.21	36.35	4.21	32.63	Peak
3 @	9848.000	53.00	-21.00	74.00	42.39	38.92	4.48	32.79	Peak



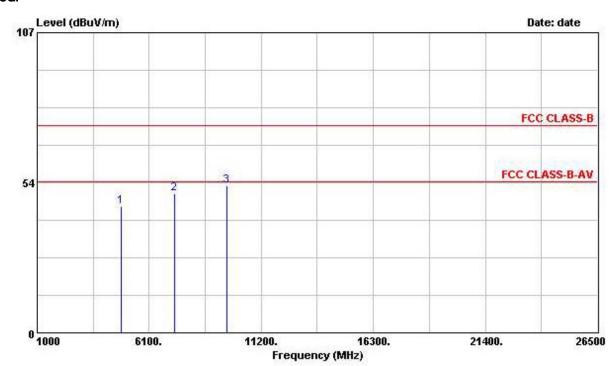
Temperature	25.9℃	Humidity	50%
Test Engineer	Kay	Configurations	802.11g Channel 1



Free	277					Capte	Preamp	
rreq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
MHz	dBuV/m d	dB	B dBuV/m	dBuV	ıV dB/m	dB	dB	ž
4824.000	44.42	-29.58	74.00	40.50	33.09	3.15	32.32	Peak
7236.000	49.19	-24.81	74.00	41.62	35.98	4.15	32.57	Peak
9648.000	52.35	-21.65	74.00	42.15	38.58	4.42	32.80	Peak
	MHz 4824.000 7236.000	MHz dBuV/m 4824.000 44.42 7236.000 49.19	MHz dBuV/m dB 4824.000 44.42 -29.58 7236.000 49.19 -24.81	MHz dBuV/m dB dBuV/m 4824.000 44.42 -29.58 74.00 7236.000 49.19 -24.81 74.00	MHz dBuV/m dB dBuV/m dBuV 4824.000 44.42 -29.58 74.00 40.50 7236.000 49.19 -24.81 74.00 41.62	MHz dBuV/m dB dBuV/m dBuV dB/m 4824.000 44.42 -29.58 74.00 40.50 33.09 7236.000 49.19 -24.81 74.00 41.62 35.98	MHz dBuV/m dB dBuV/m dBuV dB/m dB 4824.000 44.42 -29.58 74.00 40.50 33.09 3.15 7236.000 49.19 -24.81 74.00 41.62 35.98 4.15	4824.000 44.42 -29.58 74.00 40.50 33.09 3.15 32.32 7236.000 49.19 -24.81 74.00 41.62 35.98 4.15 32.57

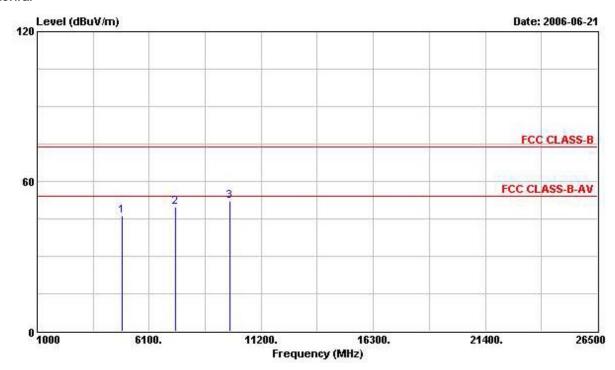


Vertical



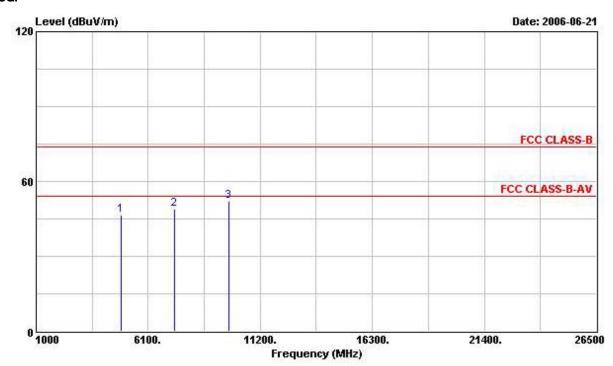
	Freq Level	Level		Over Limit Limit Line		ReadAntenna Level Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	4824.000	44.94	-29.06	74.00	41.03	33.09	3.15	32.32	Peak
2	7236.000	49.78	-24.22	74.00	42.21	35.98	4.15	32.57	Peak
3	9648.000	52.30	-21.70	74.00	42.10	38.58	4.42	32.80	Peak

Temperature	25.9℃	Humidity	50%
Test Engineer	Kay	Configurations	802.11g Channel 6



		0ver	Limit	Read	Antenna	Cable	Preamp	
Freq	Level	Limit		Level	Factor	Loss	Factor	Remark
MHz	dBuV/m	dB		dBuV	dB/m	dB	dB	
4874.000	46.09	-27.91	74.00	42.05	33.18	3.16	32.30	Peak
7311.000	49.71	-24.29	74.00	41.98	36.14	4.18	32.59	Peak
9748.000	52.15	-21.85	74.00	41.74	38.77	4.44	32.80	Peak
	MHz 4874.000 7311.000	MHz dBuV/m 4874.000 46.09 7311.000 49.71	### Hevel Limit MHz dBuV/m dB	### Freq Level Limit Line MHz dBuV/m	### Freq Level Limit Line Level MHz dBuV/m dB dBuV/m dBuV 4874.000 46.09 -27.91 74.00 42.05 7311.000 49.71 -24.29 74.00 41.98	### Freq Level Limit Line Level Factor MHz dBuV/m dB dBuV/m dBuV dB/m	Freq Level Limit Line Level Factor Loss MHz dBuV/m dB dBuV/m dBuV dB/m dB 4874.000 46.09 -27.91 74.00 42.05 33.18 3.16 7311.000 49.71 -24.29 74.00 41.98 36.14 4.18	Over Limit ReadAntenna Cable Preamp Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB 4874.000 46.09 -27.91 74.00 42.05 33.18 3.16 32.30 7311.000 49.71 -24.29 74.00 41.98 36.14 4.18 32.59 39748.000 52.15 -21.85 74.00 41.74 38.77 4.44 32.80

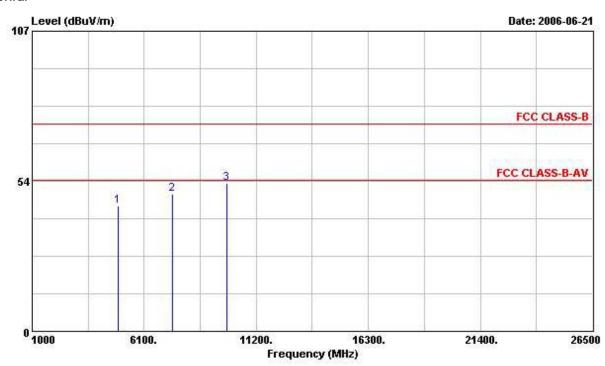
Vertical



			0ver	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m		dB	-
1	4874.000	46.52	-27.48	74.00	42.48	33.18	3.16	32.30	Peak
2	7311.000	48.86	-25.14	74.00	41.12	36.14	4.18	32.59	Peak
3	9748.000	52.03	-21.97	74.00	41.62	38.77	4.44	32.80	Peak

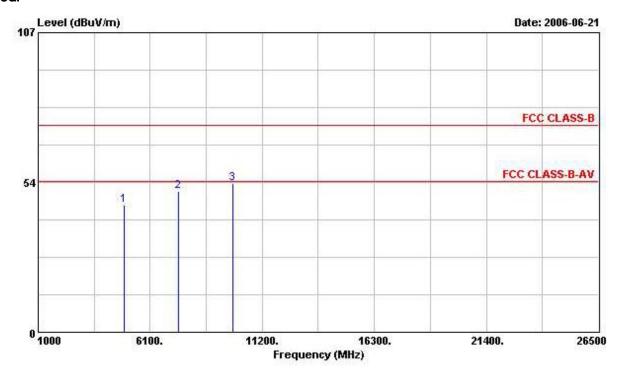


Temperature	25.9℃	Humidity	50%
Test Engineer	Kay	Configurations	802.11g Channel 11



			0ver	Limit	Readi	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB dBuV/m	dBuV d	dB/m	dB	B dB		
1	4924.000	44.76	-29.24	74.00	40.58	33.28	3.19	32.28	Peak
2	7386.000	48.89	-25.11	74.00	40.96	36.35	4.21	32.63	Peak
3 @	9848.000	52.69	-21.31	74.00	42.08	38.92	4.48	32.79	Peak

Vertical



			0ver	Limit	ReadAntenna		Cable	Preamp	
	Freq	Level	Limit	Line	Level	el Factor Loss 1	Factor	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	lB/m dB	dB	-
1	4924.000	45.30	-28.70	74.00	41.12	33.28	3.19	32.28	Peak
2	7386.000	50.17	-23.83	74.00	42.24	36.35	4.21	32.63	Peak
3 @	9848.000	53.29	-20.71	74.00	42.68	38.92	4.48	32.79	Peak

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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4.6. Band Edge Emissions Measurement

4.6.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Field Strength	Measurement Distance
(micorvolts/meter)	(meters)
2400/F(KHz)	300
24000/F(KHz)	30
30	30
100	3
150	3
200	3
500	3
	Field Strength (micorvolts/meter) 2400/F(KHz) 24000/F(KHz) 30 100 150 200

4.6.2. Measuring Instruments and Setting

Please refer to section 5 in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	100 KHz /100 KHz for Peak

4.6.3. Test Procedures

- 1. The test procedure is the same as section 4.5.3, only the frequency range investigated is limited to 100MHz around bandedges.
- 2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

4.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.5.4.

4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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4.6.7. Test Result of Band Edge and Fundamental Emissions

Temperature	Temperature 25.9°C		50%		
Test Engineer	Kay	Configurations	802.11b Channel 1, 11		

Channel 1

		Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	÷
1	0	2386.570	61.42	-12.58	74.00	31.24	28.29	1.88	0.00	Peak
2	0	2412.410	110.47			80.26	28.33	1.88	0.00	Peak
1	0	2387.140	50.09	-3.91	54.00	19.91	28.29	1.88	0.00	Average
2	@	2412.410	100.42			70.21	28.33	1.88	0.00	Average

Item 1 is Band Edge.

Channel 11

		Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	0	2462.570	107.47			77.10	28.43	1.94	0.00	Peak
2	@	2483.500	56.77	-17.23	74.00	26.37	28.47	1.94	0.00	Peak
1	0	2462.570	97.61			67.24	28.43	1.94	0.00	Average
2	@	2483.500	44.75	-9.25	54.00	14.35	28.47	1.94	0.00	Average

Item 2 is Band Edge.

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Temperature	Temperature 25.9°C		50%		
Test Engineer	Kay	Configurations	802.11g Channel 1, 11		

Channel 1

			Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark
			MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	0	<u>a</u>	2390.000	63.23	-10.77	74.00	33.05	28.29	1.88	0.00	Peak
2	0	<u>a</u>	2410.700	102.37			72.16	28.33	1.88	0.00	Peak
1	0	<u>a</u>	2390.000	46.18	-7.82	54.00	16.00	28.29	1.88	0.00	Average
2	0	<u>a</u>	2413.740	91.58			61.37	28.33	1.88	0.00	Average

Item 1 is Band Edge.

Channel 11

		Freq	Level	Over Limit			Antenna Factor		- 10 A	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	0	2460.860	102.36			72.02	28.43	1.91	0.00	Peak
2	0	2483.500	63.47	-10.53	74.00	33.07	28.47	1.94	0.00	Peak
	0	2463.900	91.70			61.33	28.43	1.94	0.00	Average
2		2483.500	46.17	-7.83	54.00	15.77	28.47	1.94	0.00	Average

Item 2 is Band Edge.

Note:

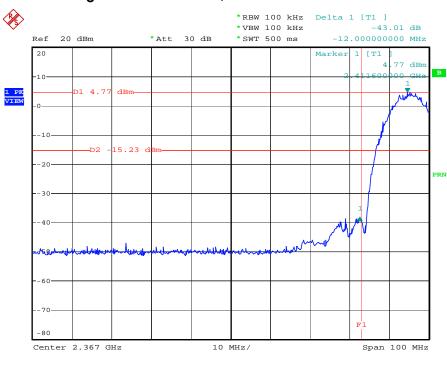
Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Receiving maximum band edge emissions are Vertical Polarization.



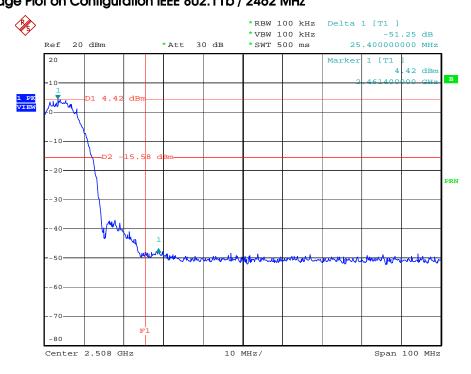
For Emission not in Restricted Band Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz



High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz

26.JUN.2006 11:40:46

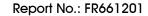
Date:



Date: 26.JUN.2006 12:21:26

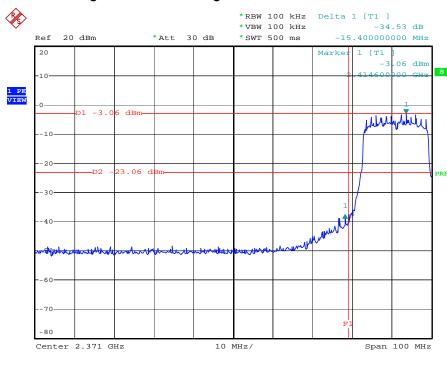
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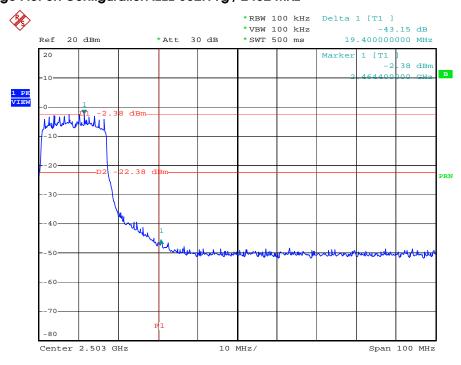


Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 26.JUN.2006 14:44:49

High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



Date: 26.JUN.2006 12:43:09

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4.7. Antenna Requirements

4.7.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.7.2. Antenna Connector Construction

Please refer to section 3.3 in this test report, all antenna connectors comply with the requirements.



5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 15, 2006	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	CPA9231A	3565	9 kHz - 2 GHz	Jan. 18, 2006	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	May 29, 2006	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100004/040	9 kHZ - 40 GHz	Sep. 30, 2005	Radiation (03CH03-HY)
Biconical Antenna	SCHWARZBECK	VHBB 9124	301	30 MHz - 200 MHz	Jul. 22, 2005	Radiation (03CH03-HY)
Log Antenna	SCHWARZBECK	VUSLP 9111	221	200 MHz - 1 GHz	Jul. 22, 2005	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6903	1GHz ~ 18GHz	Mar. 15, 2006	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Dec.02, 2005	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Dec.02, 2005	Radiation (03CH03-HY)
Turn Table	HD	DS 420	420/650/00	0 – 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	Radiation (03CH03-HY)
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Feb. 22, 2006	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Dec. 19, 2005	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9708-1839	9kHz – 30MHz	Mar. 18, 2006	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2006	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)
Spectrum analyzer	R&S	FSEK30	100189	9kHz ~ 30GHz	Aug. 15, 2005	Radiation (05CH01-HY)
Amplifier	ADVANTEST	BB525C	CH100002	100kHz ~ 3GHz	Nov. 29, 2005	Radiation (05CH01-HY)
Amplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	Mar. 14, 2006	Radiation (05CH01-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2737	25MHz ~ 2GHz	Jul. 22, 2005	Radiation (05CH01-HY)
Horn Antenna	COM-POWER	AH-118	10094	1GHz ~ 18GHz	Dec. 21, 2005	Radiation (05CH01-HY)
Horn Antenna	EMCO	3115	6903	1GHz ~ 18GHz	Mar. 15, 2006	Radiation (05CH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Dec. 30, 2005	Radiation (05CH01-HY)
RF Cable-R03m	Jye Bao	RG142	CB031	30MHz ~1GHz	Dec. 04, 2005	Radiation (05CH01-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	05CH01-HY	1GHz~26.5GHz	Feb. 06, 2006	Radiation (05CH01-HY)
Turn Table	HD	DS 420	420/655/12	0 ~ 360 degree	N/A	Radiation (05CH01-HY)
Antenna Mast	HD	MA 240	240/569/12	1 m ~ 4 m	N/A	Radiation (05CH01-HY)

Note: Calibration Interval of instruments listed above is one year.

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Amplifier	MITEQ	AMF-6F-260400	923364	26.5 GHz - 40 GHz	Jan. 24, 2006*	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	May 24, 2005*	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	NCR	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK BBHA9170 BBHA9170154 15GHz ~ 40GH		15GHz ~ 40GHz	NCR	Radiation (05CH01-HY)	
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170221	15GHz ~ 40GHz	NCR	Radiation (05CH01-HY)
Amplifier	MITEQ	AMF-6F-260400	923364	26.5 GHz - 40 GHz	Jan. 24, 2006*	Radiation (05CH01-HY)

Note: Calibration Interval of instruments listed above is two year.

NCR:Non-Calibration required.

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6. TEST LOCATION

SHIJR	ADD	:	6FI., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
	TEL	:	02-2696-2468
	FAX	:	02-2696-2255
HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
	TEL	:	03-327-3456
	FAX	:	03-318-0055
LINKOU	ADD	:	No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
	TEL	:	02-2601-1640
	FAX	:	02-2601-1695
DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
	TEL	:	02-2631-4739
	FAX	:	02-2631-9740
JUNGHE	ADD	:	7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.
	TEL	:	02-8227-2020
	FAX	:	02-8227-2626
NEIHU	ADD	:	4FI., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C.
	TEL	:	02-2794-8886
	FAX	:	02-2794-9777
JHUBEI	ADD	:	No.8, Lane 728, Bo-ai St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C.
	TEL	:	03-656-9065
	FAX	:	03-656-9085
	-		

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7. NVLAP CERTIFICATE OF ACCREDITATION

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:1999

NVLAP LAB CODE: 200079-0

Sporton International, Inc. Hwa Ya EMC Laboratory

Tao Yuan Hsien 333 TAIWAN

is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in NIST Handbook 150:2001 and all requirements of ISO/IEC 17025:1999.

Accreditation is granted for specific services, listed on the Scope of Accreditation, for:

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

2006-01-01 through 2006-12-31

Effective dates

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For the National Institute of Standards and Technology

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