

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT AND INDUSTRY CANADA RSS-210

OF

Product Name: Tablet Device

Brand Name: SONY

Model Name: SGPT112US/S; SGPT112CA/S;
SGPT111US/S; SGPT111CA/S

**Model No. of BT
Modular:** LBEE69QSYC

Model Difference: For marketing purpose only

FCC ID: AK8SGPT111US
IC: 409B-SGPT111CA

Report No.: EF-2011-40007

Issue Date: Apr. 13, 2011

Rule Part: §15.247, Cat: DSS
RSS-210 issue 8:2010, Annex 8

Prepared for: Sony Corporation
1-7-1 Konan Minato-Ku, Tokyo, 108-0075 Japan
SGS Taiwan Ltd.

Prepared by: Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial Zone,
Taipei County, Taiwan.



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SGS Taiwan Ltd. No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan / 台北縣五股工業區五工路 134 號

台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

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CERTIFICATION OF COMPLIANCE

Applicant: Sony Corporation
1-7-1 Konan Minato-Ku, Tokyo, 108-0075 Japan

Product Name: Tablet Device

Brand Name: SONY

Model No. of BT Modular: LBEE69QSYC

FCC ID: AK8SGPT111US
IC: 409B-SGPT111CA

Model No.: SGPT112US/S; SGPT112CA/S;
SGPT111US/S; SGPT111CA/S

Model Difference: For marketing purpose only

File Number: EF-2011-40007

Date of test: Mar. 24, 2011 ~ Apr. 05, 2011

Date of EUT Received: Mar. 24, 2011

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and RSS-Gen. issue 2:2007, the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15C:2007, §15.247 and RSS-210 issue 8:2010, Annex 8.

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

Test By:

Jason Wu

Date:

Apr. 13, 2011

Jason Wu / Engineer

Prepared By:

Celine Chou

Date:

Apr. 13, 2011

Celine Chou / Clerk

Approved By:

Jim Chang

Date:

Apr. 13, 2011

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	Apr. 13, 2011	Initial creation of document

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1. GENERAL INFORMATION

1.1. Product Description

General:

Product Name:	Tablet Device	
Brand Name:	SONY	
Model Name:	SGPT112US/S; SGPT112CA/S; SGPT111US/S; SGPT111CA/S	
Model Difference:	For marketing purpose only	
Bluetooth Module FCC ID:	VPLYBSY	
Bluetooth Module IC :	772C-LBSY	
Power Supply:	3.7Vdc Re-chargeable Li-ion battery or 10.5Vdc by AC/DC power adapter	
	Battery:	Model: SGPBP02, Supplier: SONY
	Adapter:	Model: SGPAC10V1, Supplier: SONY
Data Cable:	Model: N/A, Supplier: N/A	

Bluetooth:

Bluetooth FCC Modular Report:	Supplier: UL Japan, Inc. Report Owner: Murata Manufacturing Co., Ltd. Model: LBEE69QSYC Report Number: 31CE0169-HO-02-B-R1
Bluetooth IC Modular Report:	Supplier: UL Japan, Inc. Report Owner: Murata Manufacturing Co., Ltd. Model: LBEE69QSYC Report Number: 31CE0169-HO-02-D-R1
Bluetooth Version:	<input type="checkbox"/> V1.1 (GFSK) <input type="checkbox"/> V1.2 (GFSK) <input type="checkbox"/> V2.0 (GFSK) <input type="checkbox"/> V2.0 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) <input checked="" type="checkbox"/> V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Frequency Range:	2402 – 2480MHz
Channel number:	79 channels max.
Rated Power:	-0.10dBm (Peak)
Modulation type:	Frequency Hopping Spread Spectrum
Antenna Designation:	PIFA Antenna / 0.65dBi.
Type of Emission (IC):	1M2D1D

The EUT is compliance with Bluetooth V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) standard.

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WLAN: 802.11 b/g/n

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission (IC)
11b/g	2412-2462	11	b : 15.75dBm g : 20.42dBm	DSSS, OFDM	b : 13M57G1D g : 17M16G1D
11n	HT20 2412-2462	11	n : 19.74dBm	OFDM	18M20G1D
WLAN FCC Modular Report:			Supplier: UL Japan, Inc. Report Owner: Murata Manufacturing Co., Ltd. Model: LBEE69QSYC Report Number: 31CE0169-HO-02-A-R1		
WLAN IC Modular Report:			Supplier: UL Japan, Inc. Report Owner: Murata Manufacturing Co., Ltd. Model: LBEE69QSYC Report Number: 31CE0169-HO-02-C-R1		
Antenna Designation:			PIFA Antenna with 0.65 dBi peak gain		
Modulation type:			CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:			802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n HT20: 6.5/13/19.5/26/39/52/58.5/65 Mbps		

The EUT is compliance with IEEE 802.11 b/g/n Standard.

GPS:

Receiver Frequency:	L1 Band, 1575.42MHz
Frequency Conversion oscillator:	32.768KHz
Antenna Designation:	PIFA Antenna / 0.65dBi.

This test report applies for Bluetooth.

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1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: AK8SGPT111US** filing to comply with Section 15.247 of the FCC Part 15C, Subpart C Rules. And **IC: 409B-SGPPT111CA** filing to comply with Industry Canada RSS-210 issue 8:2010, Annex 8.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003) and RSS-Gen: 2007. Radiated testing was performed at an antenna to EUT distance 3 meters.

Tested in accordance with FCC Public Notice DA 00-705

1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

1.5. Special Accessories

Not available for this EUT intended for grant.

1.6. Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT (Transmitter) was tested with a test program to fix the Tx/RX frequency that was for the purpose of the measurements. For more information please see test data and APPENDIX 1 for set-up photographs.

2.3. Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7, 13 of ANSI C63.4-2003 and RSS-Gen:2007. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 of ANSI C63.4-2003 and DA 00-705..

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2.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed channel) Radiated Emission



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.
1.	Notebook	Lenovo	L412	0585AD9

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)/ RSS-Gen §7.2.2	AC Power line Conducted Emission	Compliant
§15.247(b)(1)/ RSS-210, §A8.4(2)	Peak Output Power	Compliant
§15.247(d) RSS-210, §A8.5	100 KHz Bandwidth Of Frequency Band Edges	Compliant
§15.247(c) RSS-Gen §7.2.3 RSS-210, §A2.9	TX/RX Spurious Emission	Compliant
§15.203, §15.247(c)/ RSS-GEN 7.1.4, RSS-210, §A8.4	Antenna Requirement	Compliant

4. DESCRIPTION OF TEST MODES

The EUT has been tested under Operating and standby condition. And used to control the EUT for staying in continuous transmitting and receiving mode is programmed. EDR mode will be the worst case Channel 0, 39 and 78 of Bluetooth with highest data rate were chosen for testing.

Channel low (2402MHz) 、mid (2441MHz) and high (2480MHz) with highest data rate are chosen for full testing.

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth Transmitter for channel Low, Mid and High, the worst case H position was reported.

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5. AC POWER LINE CONDUCTED EMISSION TEST

5.1. Standard Applicable:

According to §15.207 and RSS-Gen §7.2.2, frequency range within 150KHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

5.2. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/15/2010	09/14/2011
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2011	02/01/2012
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2011	02/01/2012
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2010	11/27/2011

5.3. EUT Setup:

- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2003.
- The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- The LISN was connected with 120Vac/60Hz power source.

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5.4. Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

5.5. Measurement Result:

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Note: Refer to next page for measurement data and plots.

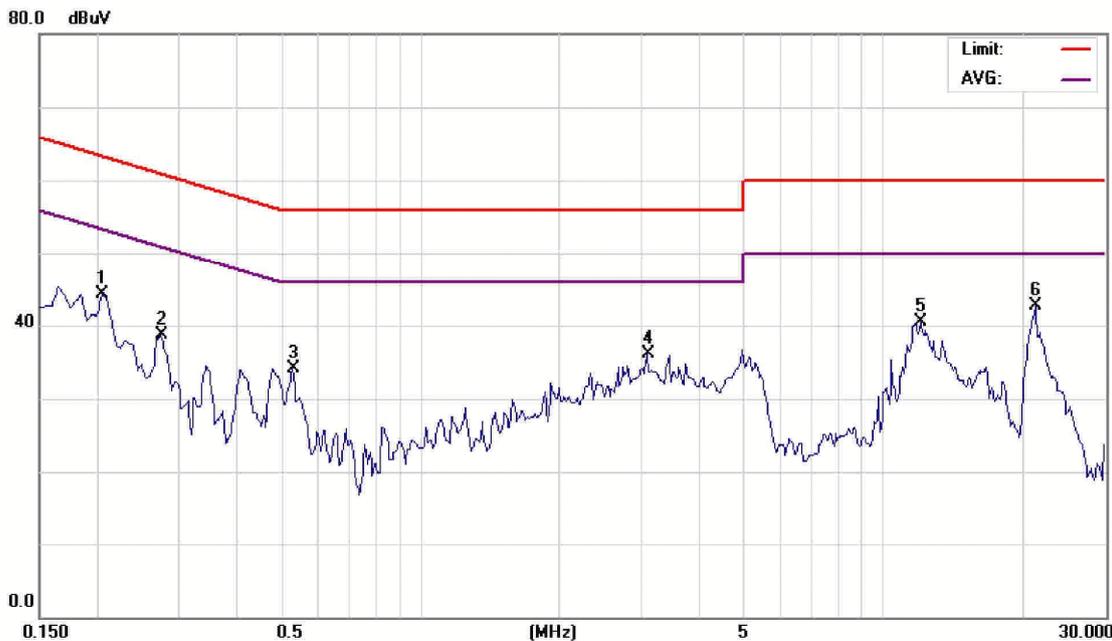
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Bluetooth Mode		Test Date:	Apr. 04, 2011	
Temperature:	23 °C	Humidity:	57 %	Test By:	Jason



Site	SGS CONDUCTED #1	Phase:	L1	Temperature:	24 °C
Limit:	CISPR22/11/EN55022 Class B	Power:	AC 120V/60Hz	Humidity:	58%
EUT:	TabletDevice	Distance:		Air Pressure:	hpa
M/N:	SGPT112US/S				
Note:	BTOperation				

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2050	44.20	0.07	44.27	63.41	-19.14	peak	
2		0.2750	38.55	0.07	38.62	60.97	-22.35	peak	
3		0.5300	34.10	0.06	34.16	56.00	-21.84	peak	
4		3.1000	35.99	0.08	36.07	56.00	-19.93	peak	
5		12.0600	40.29	0.20	40.49	60.00	-19.51	peak	
6	*	21.4600	42.17	0.44	42.61	60.00	-17.39	peak	

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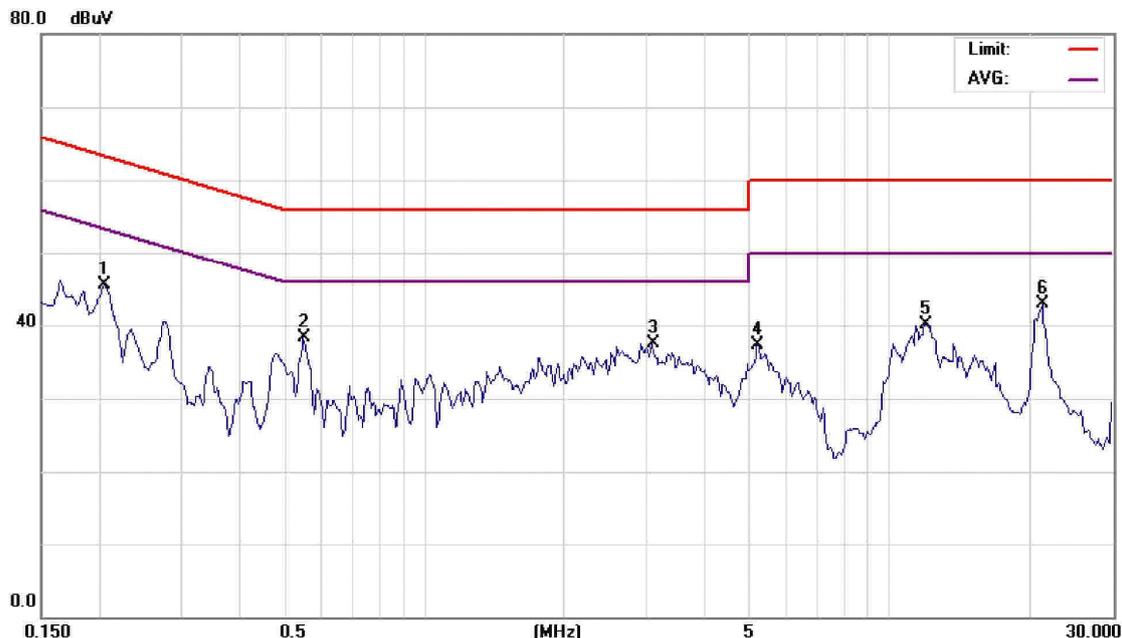
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台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group



Site	SGS CONDUCTED #1	Phase:	N	Temperature:	24 °C
Limit:	CISPR22/11/EN55022 Class B	Power:	AC 120V/60Hz	Humidity:	58%
EUT:	TabletDevice	Distance:		Air Pressure:	hpa
M/N:	SGPT112US/S				
Note:	BTOperation				

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2050	45.42	0.08	45.50	63.41	-17.91	peak	
2		0.5500	38.16	0.06	38.22	56.00	-17.78	peak	
3		3.1000	37.51	0.08	37.59	56.00	-18.41	peak	
4		5.2200	37.25	0.10	37.35	60.00	-22.65	peak	
5		11.9800	39.93	0.17	40.10	60.00	-19.90	peak	
6	*	21.4200	42.63	0.31	42.94	60.00	-17.06	peak	

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6. PEAK OUTPUT POWER MEASUREMENT

6.1. Standard Applicable:

According to §15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725-5850MHz band: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: 0.125 Watts.

According to RSS-210 issue 7, §A8.4(2), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, the maximum conducted output power shall not exceed 1 W. For all other frequency hopping systems, the maximum peak conducted output power shall not exceed 0.125 W.

6.2. Measurement Equipment Used:

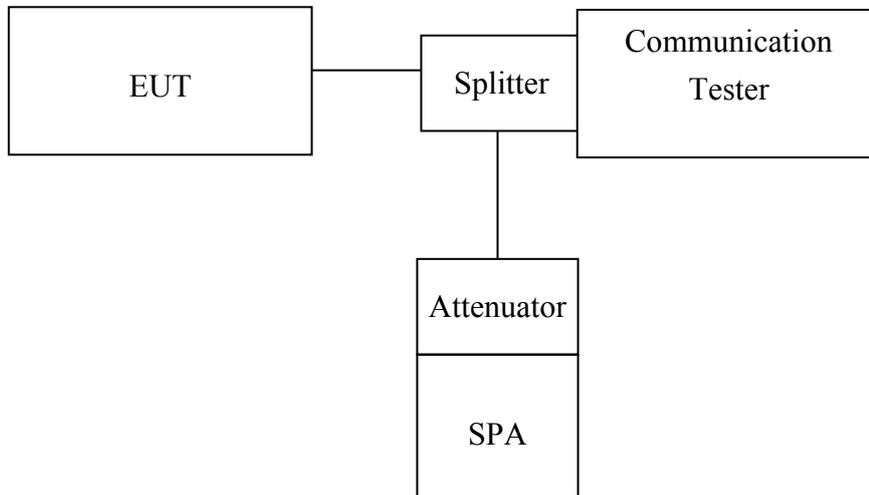
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011
Splitter	Agilent	11636B	N/A	07/05/2010	07/04/2011

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6.3. Test Set-up:



6.4. Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max peak function, RBW> 20dB bandwidth, VBW>RBW)
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

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6.5. Measurement Result:

BDR mode:

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	-0.80	0.00	-0.80	0.00083	1
2441.00	-1.63	0.00	-1.63	0.00069	1
2480.00	-0.81	0.00	-0.81	0.00083	1

EDR mode:

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	-0.10	0.00	-0.10	0.00098	1
2441.00	-0.96	0.00	-0.96	0.00080	1
2480.00	-0.62	0.00	-0.62	0.00087	1

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7. 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

7.1. Standard Applicable:

According to §15.247(d), in any 100 KHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

According to RSS-210 issue 7, §A8.5, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required. In addition, radiated emissions which fall in the restricted bands of Table 1 must also comply with the radiated emission limits specified in Tables 2 and 3.

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7.2. Measurement Equipment Used:

7.2.1. Conducted Emission at antenna port:

Refer to section 6.2 for details.

7.2.2. Radiated emission:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2011	02/11/2012
Loop antenna	MESSTEC	FLA30	03/10086	07/08/2009	07/07/2011
Bilog Antenna	SCHWAZBECK	VULB9160	3136	09/15/2010	09/14/2011
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2010	05/08/2012
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2010	11/27/2011
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2011	01/04/2012
3m Site	SGS	966 chamber	N/A	11/08/2010	11/09/2011

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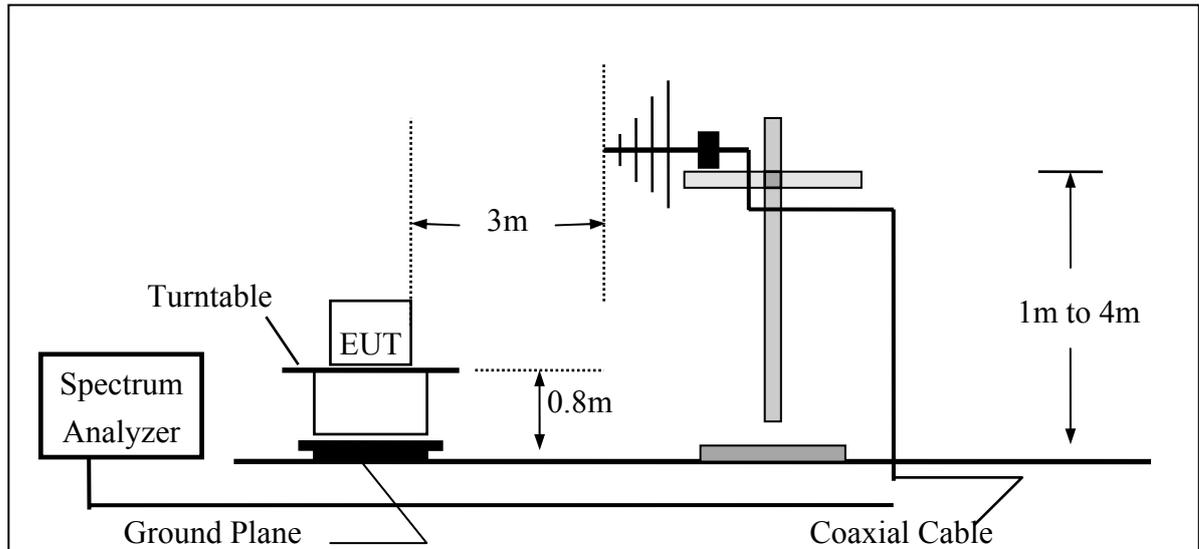
7.3. Test SET-UP:

7.3.1. Conducted Emission at antenna port:

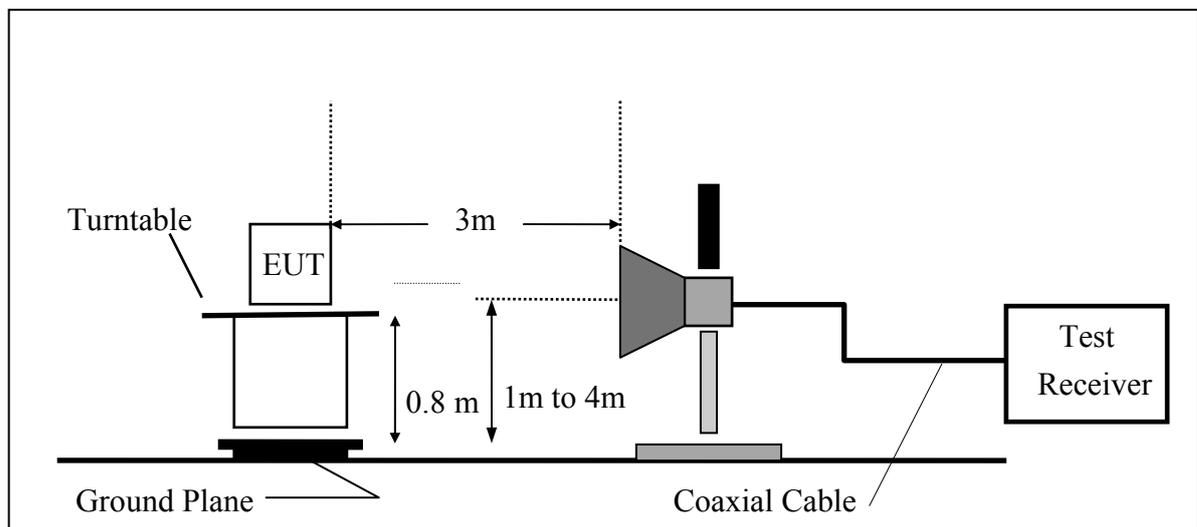
Refer to section 6.3 for details.

7.3.2. Radiated emission:

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-Up Frequency Over 1 GHz



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7.4. Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span=25MHz, Sweep = auto
5. Mark Peak, 2.390GHz and 2.4835GHz and record the max. level.
6. Repeat above procedures until all frequency measured were complete.

7.5. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

7.6. Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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Radiated Emission: (BDR mode)

Operation Mode TX CH Low
Fundamental Frequency 2402 MHz
Temperature 25 °C
Humidity 65 %

Test Date Apr. 04, 2011
Test By Jason
Pol Ver.

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	47.20	---	-0.67	46.53	---	74.00	54.00	-27.47	Peak

Operation Mode TX CH Low
Fundamental Frequency 2402 MHz
Temperature 25 °C
Humidity 65 %

Test Date Apr. 04, 2011
Test By Jason
Pol Hor.

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	48.27	---	-0.67	47.60	---	74.00	54.00	-26.40	Peak

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column ◦
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode TX CH High
Fundamental Frequency 2480 MHz
Temperature 25 °C
Humidity 65 %

Test Date Apr. 04, 2011
Test By Jason
Pol Ver.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF (dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
2483.50	49.07	---	-0.52	48.55	---	74.00	54.00	-25.45	Peak

Operation Mode TX CH High
Fundamental Frequency 2480 MHz
Temperature 25 °C
Humidity 65 %

Test Date Apr. 04, 2011
Test By Jason
Pol Hor.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF (dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
2483.50	53.16	---	-0.52	52.64	---	74.00	54.00	-21.36	Peak

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column ◦
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Emission: (EDR mode)

Operation Mode	TX CH Low	Test Date	Apr. 04, 2011
Fundamental Frequency	2402 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	47.60	---	-0.67	46.93	---	74.00	54.00	-27.07	Peak

Operation Mode	TX CH Low	Test Date	Apr. 04, 2011
Fundamental Frequency	2402 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	47.60	---	-0.67	46.93	---	74.00	54.00	-27.07	Peak

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column ◦
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode	TX CH High	Test Date	Apr. 04, 2011
Fundamental Frequency	2480 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2483.50	50.01	---	-0.52	49.49	---	74.00	54.00	-24.51	Peak

Operation Mode	TX CH High	Test Date	Apr. 04, 2011
Fundamental Frequency	2480 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2483.50	51.39	---	-0.52	50.87	---	74.00	54.00	-23.13	Peak

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column ◦
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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8. SPURIOUS EMISSION TEST

8.1. Standard Applicable:

According to §15.247(c), all other emissions outside these bands shall not exceed the general radiated emission limits specified in §15.209(a). And according to §15.33(a)(1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

According to RSS-Gen §7.2.3 and RSS-210 issue 7, §A2.9, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required. In addition, radiated emissions which fall in the restricted bands of Table 1 must also comply with the radiated emission limits specified in Tables 2 and 3.

8.2. Measurement Equipment Used:

8.2.1. Conducted Emission at antenna port:

Refer to section 6.2 for details.

8.2.2. Radiated emission:

Refer to section 7.2 for details.

8.3. Test SET-UP:

8.3.1. Conducted Emission at antenna port:

Refer to section 6.3 for details.

8.3.2. Radiated emission:

Refer to section 7.3 for details.

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8.4. Measurement Procedure:

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until all frequency measured were complete.

8.5. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

8.6. Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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Radiated Spurious Emission Measurement Result (below 1GHz) (EDR mode)

Operation Mode	TX CH Low	Test Date	Apr. 04, 2011
Fundamental Frequency	2402MHz	Test By	Jason
Temperature	25 °C	Pol	Ver./Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
90.14	V	Peak	54.64	-17.48	37.16	43.50	-6.34
209.45	V	Peak	44.82	-15.71	29.11	43.50	-14.39
277.35	V	Peak	50.43	-13.01	37.42	46.00	-8.58
542.16	V	Peak	41.32	-8.31	33.01	46.00	-12.99
623.64	V	Peak	40.28	-6.51	33.77	46.00	-12.23
679.90	V	Peak	37.66	-5.55	32.11	46.00	-13.89
90.14	H	Peak	55.90	-17.48	38.42	43.50	-5.08
148.34	H	Peak	52.48	-12.36	40.12	43.50	-3.38
209.45	H	Peak	51.17	-15.71	35.46	43.50	-8.04
241.46	H	Peak	52.14	-14.03	38.11	46.00	-7.89
299.66	H	Peak	47.46	-12.45	35.01	46.00	-10.99
728.40	H	Peak	40.95	-4.78	36.17	46.00	-9.83

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode TX CH Mid
Fundamental Frequency 2441MHz
Temperature 25 °C
Humidity 65 %

Test Date Apr. 04, 2011
Test By Jason
Pol Ver./Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
90.14	V	Peak	52.15	-17.48	34.67	43.50	-8.83
209.45	V	Peak	45.88	-15.71	30.17	43.50	-13.33
277.35	V	Peak	50.21	-13.01	37.20	46.00	-8.80
416.06	V	Peak	38.60	-10.58	28.02	46.00	-17.98
542.16	V	Peak	42.46	-8.31	34.15	46.00	-11.85
728.40	V	Peak	41.72	-4.78	36.94	46.00	-9.06
90.14	H	Peak	58.39	-17.48	40.91	43.50	-2.59
148.34	H	Peak	52.30	-12.36	39.94	43.50	-3.56
209.45	H	Peak	51.20	-15.71	35.49	43.50	-8.01
241.46	H	Peak	51.64	-14.03	37.61	46.00	-8.39
291.90	H	Peak	47.53	-12.64	34.89	46.00	-11.11
728.40	H	Peak	44.02	-4.78	39.24	46.00	-6.76

Remark:

- 1 Measuring frequencies from 30 MHz to the 1GHz °
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode	TX CH High	Test Date	Apr. 04, 2011
Fundamental Frequency	2480MHz	Test By	Jason
Temperature	25 °C	Pol	Ver./Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
90.14	V	Peak	54.37	-17.48	36.89	43.50	-6.61
209.45	V	Peak	44.06	-15.71	28.35	43.50	-15.15
277.35	V	Peak	50.89	-13.01	37.88	46.00	-8.12
332.64	V	Peak	41.40	-11.83	29.57	46.00	-16.43
542.16	V	Peak	40.93	-8.31	32.62	46.00	-13.38
728.40	V	Peak	43.06	-4.78	38.28	46.00	-7.72
90.14	H	Peak	56.39	-17.48	38.91	43.50	-4.59
148.34	H	Peak	51.76	-12.36	39.40	43.50	-4.10
209.45	H	Peak	49.44	-15.71	33.73	43.50	-9.77
238.55	H	Peak	53.46	-14.12	39.34	46.00	-6.66
299.66	H	Peak	47.75	-12.45	35.30	46.00	-10.70
728.40	H	Peak	41.62	-4.78	36.84	46.00	-9.16

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Low	Test Date	Apr. 04, 2011
Fundamental Frequency	2402 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1247.0	46.97	---	-5.03	41.94	---	74.00	54.00	-12.06	Peak
1507.0	46.42	---	-4.52	41.90	---	74.00	54.00	-12.10	Peak
4802.0	37.21	---	5.19	42.40	---	74.00	54.00	-11.60	Peak
7206.0	----					74.00	54.00		
9608.0	----					74.00	54.00		
12010.0	----					74.00	54.00		
14412.0	----					74.00	54.00		
16814.0	----					74.00	54.00		
19216.0	----					74.00	54.00		
21618.0	----					74.00	54.00		
24020.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode TX CH Low
Fundamental Frequency 2402 MHz
Temperature 25 °C
Humidity 65 %

Test Date Apr. 04, 2011
Test By Jason
Pol Hor.

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1487.5	43.48	---	-4.63	38.85	---	74.00	54.00	-15.15	Peak
2137.5	41.71	---	-2.18	39.53	---	74.00	54.00	-14.47	Peak
4783.0	37.93	---	5.14	43.07	---	74.00	54.00	-10.93	Peak
4804.0	----					74.00	54.00		
7206.0	----					74.00	54.00		
9608.0	----					74.00	54.00		
12010.0	----					74.00	54.00		
14412.0	----					74.00	54.00		
16814.0	----					74.00	54.00		
19216.0	----					74.00	54.00		
21618.0	----					74.00	54.00		
24020.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode	TX CH Mid	Test Date	Apr. 04, 2011
Fundamental Frequency	2441 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1247.0	46.01	---	-5.03	40.98	---	74.00	54.00	-13.02	Peak
1487.5	45.56	---	-4.63	40.93	---	74.00	54.00	-13.07	Peak
3587.0	39.49	---	1.21	40.70	---	74.00	54.00	-13.30	Peak
4882.0	36.54	---	5.38	41.92	---	74.00	54.00	-12.08	Peak
7323.0	----					74.00	54.00		
9764.0	----					74.00	54.00		
12205.0	----					74.00	54.00		
14646.0	----					74.00	54.00		
17087.0	----					74.00	54.00		
19528.0	----					74.00	54.00		
21969.0	----					74.00	54.00		
24410.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode TX CH Mid
Fundamental Frequency 2441 MHz
Temperature 25 °C
Humidity 65 %

Test Date Apr. 04, 2011
Test By Jason
Pol Hor.

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1247.0	42.50	---	-5.03	37.47	---	74.00	54.00	-16.53	Peak
1487.5	44.02	---	-4.63	39.39	---	74.00	54.00	-14.61	Peak
4882.0	37.27	---	5.38	42.65	---	74.00	54.00	-11.35	Peak
7323.0	----					74.00	54.00		
9764.0	----					74.00	54.00		
12205.0	----					74.00	54.00		
14646.0	----					74.00	54.00		
17087.0	----					74.00	54.00		
19528.0	----					74.00	54.00		
21969.0	----					74.00	54.00		
24410.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode	TX CH High	Test Date	Apr. 04, 2011
Fundamental Frequency	2480 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1507.0	45.49	---	-4.52	40.97	---	74.00	54.00	-13.03	Peak
2007.5	43.59	---	-2.97	40.62	---	74.00	54.00	-13.38	Peak
2118.0	43.28	---	-2.35	40.93	---	74.00	54.00	-13.07	Peak
4978.0	39.56	---	5.66	45.22	---	74.00	54.00	-8.78	Peak
7440.0	----					74.00	54.00		
9920.0	----					74.00	54.00		
12400.0	----					74.00	54.00		
14880.0	----					74.00	54.00		
17360.0	----					74.00	54.00		
19840.0	----					74.00	54.00		
22320.0	----					74.00	54.00		
24800.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode	TX CH High	Test Date	Apr. 04, 2011
Fundamental Frequency	2480 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1247.0	41.45	---	-5.03	36.42	---	74.00	54.00	-17.58	Peak
1702.0	41.89	---	-3.75	38.14	---	74.00	54.00	-15.86	Peak
3762.5	39.35	---	1.95	41.30	---	74.00	54.00	-12.70	Peak
4958.5	36.62	---	5.61	42.23	---	74.00	54.00	-11.77	Peak
7440.0	----					74.00	54.00		
9920.0	----					74.00	54.00		
12400.0	----					74.00	54.00		
14880.0	----					74.00	54.00		
17360.0	----					74.00	54.00		
19840.0	----					74.00	54.00		
22320.0	----					74.00	54.00		
24800.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (below 1GHz) (EDR mode)

Operation Mode	RX CH Low	Test Date	Apr. 04, 2011
Fundamental Frequency	2402MHz	Test By	Jason
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
90.14	V	Peak	52.49	-17.48	35.01	43.50	-8.49
209.45	V	Peak	45.14	-15.71	29.43	43.50	-14.07
277.35	V	Peak	49.40	-13.01	36.39	46.00	-9.61
542.16	V	Peak	42.09	-8.31	33.78	46.00	-12.22
728.40	V	Peak	38.75	-4.78	33.97	46.00	-12.03
936.95	V	Peak	36.39	-1.70	34.69	46.00	-11.31
90.14	H	Peak	54.87	-17.48	37.39	43.50	-6.11
148.34	H	Peak	51.36	-12.36	39.00	43.50	-4.50
209.45	H	Peak	49.91	-15.71	34.20	43.50	-9.30
241.46	H	Peak	51.50	-14.03	37.47	46.00	-8.53
623.64	H	Peak	37.68	-6.51	31.17	46.00	-14.83
720.64	H	Peak	40.77	-4.92	35.85	46.00	-10.15

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz °
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode RX CH Mid
Fundamental Frequency 2441MHz
Temperature 25°C
Humidity 65 %

Test Date Apr. 04, 2011
Test By Jason
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
90.14	V	Peak	54.60	-17.48	37.12	43.50	-6.38
209.45	V	Peak	45.09	-15.71	29.38	43.50	-14.12
277.35	V	Peak	51.27	-13.01	38.26	46.00	-7.74
354.95	V	Peak	41.22	-11.50	29.72	46.00	-16.28
728.40	V	Peak	39.60	-4.78	34.82	46.00	-11.18
936.95	V	Peak	38.73	-1.70	37.03	46.00	-8.97
90.14	H	Peak	57.23	-17.48	39.75	43.50	-3.75
148.34	H	Peak	48.89	-12.36	36.53	43.50	-6.97
209.45	H	Peak	50.34	-15.71	34.63	43.50	-8.87
277.35	H	Peak	50.55	-13.01	37.54	46.00	-8.46
660.50	H	Peak	38.72	-5.79	32.93	46.00	-13.07
733.25	H	Peak	41.17	-4.71	36.46	46.00	-9.54

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode	RX CH High	Test Date	Apr. 04, 2011
Fundamental Frequency	2480MHz	Test By	Jason
Temperature	25 °C	Pol	Ver./Hor
Humidity	65%		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
90.14	V	Peak	51.87	-17.48	34.39	43.50	-9.11
148.34	V	Peak	44.32	-12.36	31.96	43.50	-11.54
277.35	V	Peak	50.80	-13.01	37.79	46.00	-8.21
416.06	V	Peak	38.91	-10.58	28.33	46.00	-17.67
542.16	V	Peak	41.89	-8.31	33.58	46.00	-12.42
679.90	V	Peak	37.37	-5.55	31.82	46.00	-14.18
90.14	H	Peak	54.96	-17.48	37.48	43.50	-6.02
148.34	H	Peak	51.51	-12.36	39.15	43.50	-4.35
209.45	H	Peak	50.30	-15.71	34.59	43.50	-8.91
241.46	H	Peak	51.88	-14.03	37.85	46.00	-8.15
623.64	H	Peak	38.47	-6.51	31.96	46.00	-14.04
720.64	H	Peak	41.02	-4.92	36.10	46.00	-9.90

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	RX CH Low	Test Date	Apr. 04, 2011
Fundamental Frequency	2402 MHz	Test By	Jason
Temperature	25°C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1247.0	45.61	---	-5.03	40.58	---	72.00	54.00	-13.42	Peak
1598.0	51.83	---	-4.11	47.72	---	73.00	54.00	-6.28	Peak
2118.0	47.68	---	-2.35	45.33	---	74.00	54.00	-8.67	Peak
4804.0	----					74.00	54.00		
4997.5	39.87	---	5.70	45.57	---	74.00	54.00	-8.43	Peak
7206.0	----					74.00	54.00		
9608.0	----					74.00	54.00		
12010.0	----					74.00	54.00		
14412.0	----					74.00	54.00		
16814.0	----					74.00	54.00		
19216.0	----					74.00	54.00		
21618.0	----					74.00	54.00		
24020.0	----					74.00	54.00		

Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode	RX CH Low	Test Date	Apr. 04, 2011
Fundamental Frequency	2402 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1247.0	41.75	---	-5.03	36.72	---	74.00	54.00	-17.28	Peak
2118.0	44.38	---	-2.35	42.03	---	74.00	54.00	-11.97	Peak
3860.0	39.26	---	2.30	41.56	---	74.00	54.00	-12.44	Peak
4804.0	----					74.00	54.00		
5147.0	38.08	---	6.20	44.28	---	74.00	54.00	-9.72	Peak
7206.0	----					74.00	54.00		
9608.0	----					74.00	54.00		
12010.0	----					74.00	54.00		
14412.0	----					74.00	54.00		
16814.0	----					74.00	54.00		
19216.0	----					74.00	54.00		
21618.0	----					74.00	54.00		
24020.0	----					74.00	54.00		

Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode	RX CH Mid	Test Date	Apr. 04, 2011
Fundamental Frequency	2441 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1247.0	45.67	---	-5.03	40.64	---	74.00	54.00	-13.36	Peak
1507.0	46.11	---	-4.52	41.59	---	74.00	54.00	-12.41	Peak
1845.0	44.91	---	-3.05	41.86	---	74.00	54.00	-12.14	Peak
2118.0	49.07	---	-2.35	46.72	---	74.00	54.00	-7.28	Peak
4882.0	----					74.00	54.00		
4997.5	40.27	---	5.70	45.97	---	74.00	54.00	-8.03	Peak
7323.0	----					74.00	54.00		
9764.0	----					74.00	54.00		
12205.0	----					74.00	54.00		
14646.0	----					74.00	54.00		
17087.0	----					74.00	54.00		
19528.0	----					74.00	54.00		
21969.0	----					74.00	54.00		
24410.0	----					74.00	54.00		

Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode	RX CH Mid	Test Date	Apr. 04, 2011
Fundamental Frequency	2441 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor
Humidity	65%		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1585.0	43.58	---	-4.18	39.40	---	74.00	54.00	-14.60	Peak
2430.0	41.32	---	-0.74	40.58	---	74.00	54.00	-13.42	Peak
4367.0	38.40	---	3.90	42.30	---	74.00	54.00	-11.70	Peak
4882.0	----					74.00	54.00		
5797.0	38.00	---	7.48	45.48	---	74.00	54.00	-8.52	Peak
7323.0	----					74.00	54.00		
9764.0	----					74.00	54.00		
12205.0	----					74.00	54.00		
14646.0	----					74.00	54.00		
17087.0	----					74.00	54.00		
19528.0	----					74.00	54.00		
21969.0	----					74.00	54.00		
24410.0	----					74.00	54.00		

Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode	RX CH High	Test Date	Apr. 04, 2011
Fundamental Frequency	2480 MHz	Test By	Jason
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1247.0	46.01	---	-5.03	40.98	---	74.00	54.00	-13.02	Peak
1585.0	47.46	---	-4.18	43.28	---	74.00	54.00	-10.72	Peak
1858.0	47.50	---	-3.13	44.37	---	74.00	54.00	-9.63	Peak
2118.0	45.88	---	-2.35	43.53	---	74.00	54.00	-10.47	Peak
4960.0	----					74.00	54.00		
4997.5	39.78	---	5.70	45.48	---	74.00	54.00	-8.52	Peak
7440.0	----					74.00	54.00		
9920.0	----					74.00	54.00		
12400.0	----					74.00	54.00		
14880.0	----					74.00	54.00		
17360.0	----					74.00	54.00		
19840.0	----					74.00	54.00		
22320.0	----					74.00	54.00		
24800.0	----					74.00	54.00		

Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode	RX CH High	Test Date	Apr. 04, 2011
Fundamental Frequency	2480 MHz	Test By	Jason
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1247.0	41.43	---	-5.03	36.40	---	74.00	54.00	-17.60	Peak
1507.0	43.12	---	-4.52	38.60	---	74.00	54.00	-15.40	Peak
1767.0	43.14	---	-3.64	39.50	---	74.00	54.00	-14.50	Peak
3957.0	38.80	---	2.66	41.46	---	74.00	54.00	-12.54	Peak
4960.0	----					74.00	54.00		
5303.0	38.27	---	6.56	44.83	---	74.00	54.00	-9.17	Peak
7440.0	----					74.00	54.00		
9920.0	----					74.00	54.00		
12400.0	----					74.00	54.00		
14880.0	----					74.00	54.00		
17360.0	----					74.00	54.00		
19840.0	----					74.00	54.00		
22320.0	----					74.00	54.00		
24800.0	----					74.00	54.00		

Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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9. ANTENNA REQUIREMENT

9.1. Standard Applicable:

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

And according to §15.246(1), 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 6 dBi.

According to RSS-GEN 7.1.4, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns. Testing shall be performed using the highest-gain antenna of each combination of transmitter and antenna type for which certification is being sought, with the transmitter output power set at the maximum level. Any antenna of the same type and having equal or lesser gain as an antenna that had been successfully tested for certification with the transmitter, will also be considered certified with the transmitter, and may be used and marketed with the transmitter. The manufacturer shall include with the application for certification a list of acceptable antenna types to be used with the transmitter.

When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. Any antenna gain in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power before using the power limits specified in RSS-210 or RSS-310 for devices of RF output powers of 10 milliwatts or less. For devices of output powers greater than 10 milliwatts, except devices subject to RSS-210 Annex 8 (Frequency Hopping and Digital Modulation Systems Operating in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz Bands) or RSS-210 Annex 9 (Local Area Network Devices), the total antenna gain shall be added to the measured RF output power before using the specified power limits. For devices subject to RSS-210 Annex 8 or Annex 9, the antenna gain shall not be added.

9.2. Antenna Connected Construction:

The directional gains of antenna used for transmitting is 0.65dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

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