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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

Product Name: Blood Glucose plus Blood Pressure Monitor

Brand Name: N/A

Model Name: TD-325XC, TD-325XD, TD-325XE (X=0~9)

X = 0~9 represents for different colors. Model **Model Difference:**

TD-325XC with a Bluetooth key and is able to

transfer data by PCL mode; whereas TD-325XD and TD-3250E without this

function.

FCC ID: **TM73250CBEM2**

Report No.: ER/2007/A0027

Issue Date: Dec. 26, 2007

§15.247 **FCC Rule Part:**

Taidoc Technology Corp. **Prepared for:**

> 6F, No.127, Wugong 2nd Rd., Wugu Township, Taipei County, Taiwan

Prepared by: SGS Taiwan Ltd.

No. 134, Wu Kung Rd., Wuku Industrial

Zone, Taipei County, Taiwan.



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VERIFICATION OF COMPLIANCE

Applicant: Taidoc Technology Corp.

6F, No.127, Wugong 2nd Rd., Wugu Township, Taipei County, Taiwan

Equipment Under Test: Blood Glucose plus Blood Pressure Monitor

Brand Name: N/A

FCC ID Number: TM73250CBEM2

Model No.: TD-325XC, TD-325XD, TD-325XE (X=0~9)

X = 0~9 represents for different colors. Model TD-325XC with a Blue-**Model Difference:**

tooth key and is able to transfer data by PCL mode; whereas TD-325XD

and TD-3250E without this function.

File Number: ER/2007/A0027

Date of test: Dec. 17, 2007 ~ Dec. 24, 2007

Date of EUT Received: Dec. 17, 2007

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 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 15.247

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

Test By:	Bondi Jin	Date	Dec. 26, 2007
	Bangde Liu/Engineer	_	
Prepared By:	Eliser Chen	Date	Dec. 26, 2007
-	Elisa Chen/Asst. Supervisor		
Approved By:	Timent Su	Date	Dec. 26, 2007
-		_	

Vincent Su/Manager



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Version

Version No.	Date
00	Dec. 26, 2007



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1. GENERAL INFORMATION

1.1. Product Description

The Taidoc Technology Corp., Model: TD-325XC, TD-325XD, TD-325XE (X=0~9) is a Blood Glucose plus Blood Pressure Monitor.

The EUT is compliance with Bluetooth Standard.

A major technical descriptions of EUT is described as following:

- A). Operation Frequency: 2402 2480MHz, 79 channels
- B). Output power: 3.73dBm Peak
- C). Modulation type: Frequency Hopping Spread Spectrum (FHSS)
- D). Antenna Designation: Chip antenna, 3dBi, Non-User Replaceable (Fixed)
- E). Power Supply: 6V from AAA battery*4 or 6V from AC/DC power adaptor, model: TRC-06-1000-M

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

This submittal(s) (test report) is intended for FCC ID: TM73250CBEM2 filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rule.

1.3. Test Methodology

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

1.4. Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 and CISPR 22/EN 55022 requirements. Site No. 1(3 &10 meters) Registration Number: 94644, Both OATS and Anechoic chamber (3 meters) was accredited by TAF (0513). Canada Registration Number: 4620A-1

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 operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. 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 a placed on as 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 according to the requirements in Section 8 and 13 of ANSI C63.4-2003.



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2.4. Configuration of Tested System

Fig. 2-1 Radiated Emission Test Setup

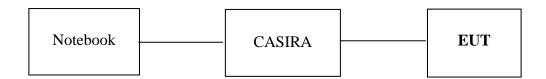


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Notebook	Compaq	Presarlo 2100	CNF345Q1R	Un-shield	Un-shield
2.	CASIRA	CSR	BCES301199/1	8836310305	Un-shield	Un-shield



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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	Conducted Emission	N/A
§15.247(b)(1)	Peak Output Power	Compliant
§15.247(a)	20dB Bandwidth	Compliant
§15.247(c)	100 KHz Bandwidth Of Fre-	Compliant
	quency Band Edges	
§15.209(a) (f)	Spurious Emission	Compliant
§15.247(a)(1)	Frequency Separation	Compliant
§15.247(a)(1)(iii)	Number of hopping frequency	Compliant
§15.247(a)(1)(iii)	Time of Occupancy	Compliant
§15.247	Peak Power Density	Compliant
§15.203,	Antenna Requirement	Compliant
§15.247(b)(4)(i)		

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

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

The Radiated Spurious Emission was performed at X. Y. and Z. axle. The worst case Y axle was reported.



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5. CONDUCTED EMISSION TEST

5.1. Standard Applicable

According to §15.207. frequency within 150KHz to 30MHz shall not exceed the limit table as be-

Frequency range	Limits dB(uV)			
MHz	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

5.2. EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2003.
- 2. The EUT was plug-in the AC/DC Power adapter. The host system was placed on the center of the back edge on the test table. The peripherals was placed on the side of the host PC system. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- 3. The spacing between the peripherals was 10 centimeters.
- 4. External I/O cables were draped along the edge of the test table and bundle when necessary.
- 5. The host system was connected with 110Vac/60Hz power source.

5.3. 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.

^{1.} The lower limit shall apply at the transition frequencies

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



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5.4. Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
EMC Analyzer	HP	8594EM	3624A00203	09/02/2007	09/03/2008			
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2007	06/10/2008			
Transient Limiter	HP	11947A	3107A02062	09/02/2007	09/03/2008			
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2006	12/30/2007			
LISN	Rolf-Heine	NNB-2/16Z	99013	12/24/2006	12/23/2007			
Coaxial Cables	N/A	No. 3, 4	N/A	12/01/2007	12/01/2008			

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-peak.



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24 °C

hpa

62 %

Temperature:

Air Pressure:

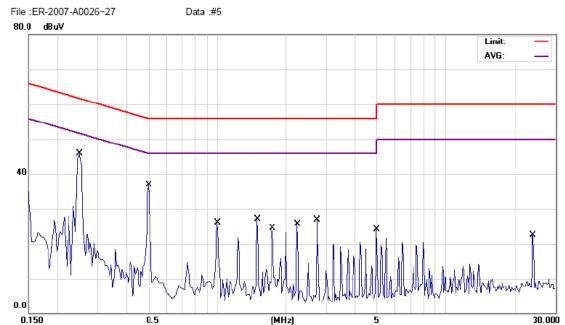
Humidity:

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Charge Mode			Test Date:	Dec. 20, 2007
Temperature:	25 °C	Humidity:	59 %	Test By:	Bondi

Conducted Emission Measurement



Phase:

Power:

Distance:

L1 AC 110V/60Hz

Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: Blood Glucose plus Pressure Minito

M/N: TD325xC(x=0~9)

Note: opeartion

SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.2500	45.94	0.02	45.96	61.76	-15.80	QP	
2	0.5000	36.86	0.02	36.88	56.00	-19.12	QP	
3	1.0000	26.18	0.01	26.19	56.00	-29.81	QP	
4	1.5000	27.02	0.03	27.05	56.00	-28.95	QP	
5	1.7400	24.52	0.03	24.55	56.00	-31.45	QP	
6	2.2400	25.73	0.04	25.77	56.00	-30.23	QP	
7	2.7400	26.76	0.05	26.81	56.00	-29.19	QP	
8	4.9800	23.99	0.11	24.10	56.00	-31.90	QP	
9	24.0000	22.20	0.40	22.60	60.00	-37.40	QP	

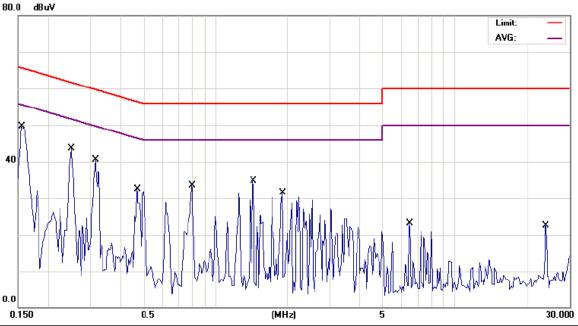


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Conducted Emission Measurement





Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: Blood Glucose plus Pressure Minito

M/N: TD325xC(x=0~9)

Note: opeartion

Phase:	N	Temperature:	24 ℃
Power:	AC 110V/60Hz	Humidity:	62 %
Distance:		Air Pressure:	hpa

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1550	49.64	0.00	49.64	65.73	-16.09	QP	
2	0.2500	43.77	0.02	43.79	61.76	-17.97	QP	
3	0.3150	40.57	0.02	40.59	59.84	-19.25	QP	
4	0.4700	32.47	0.02	32.49	56.51	-24.02	QP	
5	0.8000	33.40	0.01	33.41	56.00	-22.59	QP	
6	1.4400	34.69	0.02	34.71	56.00	-21.29	QP	
7	1.9000	31.40	0.04	31.44	56.00	-24.56	QP	
8	6.4800	22.88	0.15	23.03	60.00	-36.97	QP	
9	24.0000	22.20	0.40	22.60	60.00	-37.40	QP	

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6. PEAK OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

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.

6.2. 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. (Channel power function, RBW, VBW = 1MHz)
- 3. Record the max. reading.
- 4. Repeat above procedures until all frequency measured were complete.

6.3. Measurement Result

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	3.63	0.10	3.73	0.00236	1
2441.00	2.92	0.10	3.02	0.00200	1
2480.00	2.46	0.10	2.56	0.00180	1

6.4. Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2007	03/28/2008			
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/29/2008			
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008			
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A			
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008			
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2007	10/06/2008			
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2007	10/06/2008			



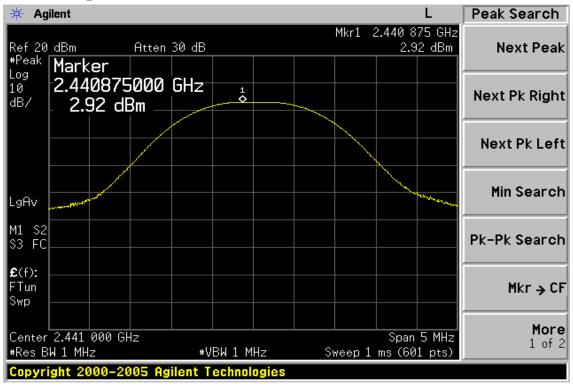
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Peak Power Output Data Plot (CH Low)



Peak Power Output Data Plot (CH Mid)

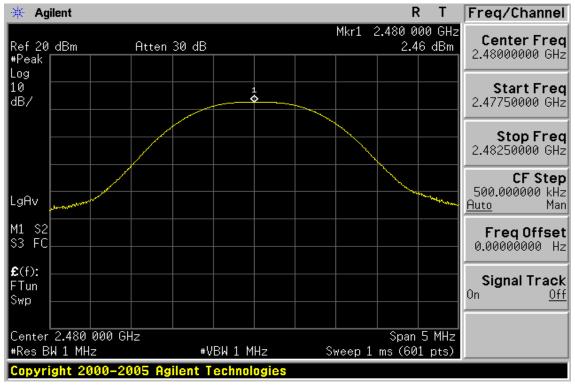




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Peak Power Output Data Plot (CH High)





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7. 20dB BANDWIDTH

7.1. Standard Applicable

For frequency hopping systems operating in the 2400MHz-2483.5 MHz no limit for 20dB bandwidth.

7.2. 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 the spectrum analyzer as RBW=10KHz (1 % of Bandwidth.), Span= 3MHz, Sweep=auto
- 4. Mark the peak frequency and –20dB (upper and lower) frequency.
- 5. Repeat above procedures until all frequency measured were complete.

7.3. Measurement Result

СН	Bandwidth
	(kHz)
Lower	738.265
Mid	739.082
Higher	720.848

7.4. Measurement Equipment Used:

7.4. Measurement Equipment eseu.								
	Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2007	03/28/2008			
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/29/2008			
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008			
		SUCOFLEX						
Low Loss Cable	HUBER+SUHNER	104PEA	N/A	N/A	N/A			
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008			
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2007	10/06/2008			
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2007	10/06/2008			



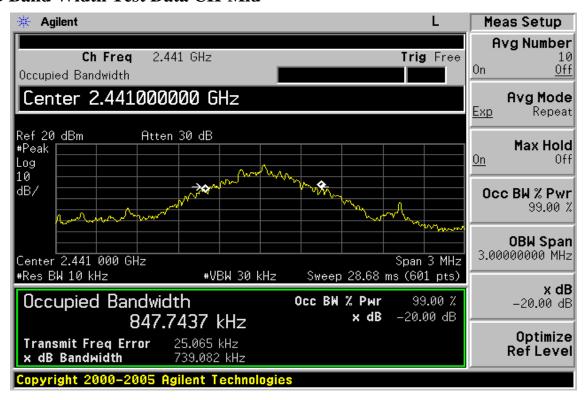
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20dB Band Width Test Data CH-Low



20dB Band Width Test Data CH-Mid





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20dB Band Width Test Data CH-High



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8. 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

8.1. Standard Applicable

According to §15.247(c), in any 100 KHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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).

8.2. 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 2.488GHz and record the max. level.
- 6. Repeat above procedures until all frequency measured were complete.
- 7. Radiated Emission refer to section 9.

8.3. Measurement Result

Refer to attach spectrum analyzer data chart.

8.4. Measurement Equipment Used:

	Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2007	03/28/2008			
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/29/2008			
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008			
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A			
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008			
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2007	10/06/2008			
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2007	10/06/2008			

Note: Measurement Equipment for radiated emission refers to section 9.



SGS Taiwan Ltd.

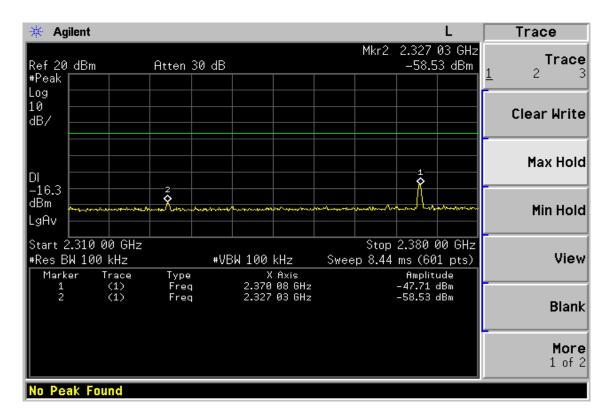
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Conducted Emission: Test Data CH-Low



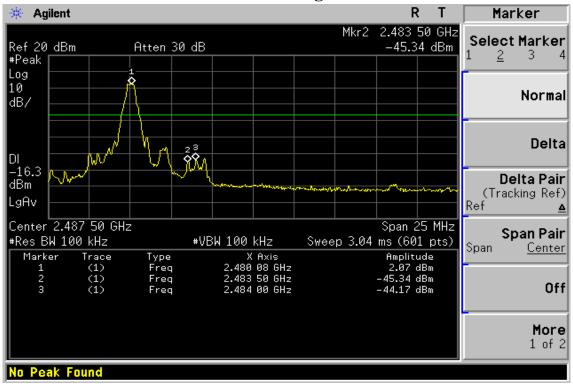




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Conducted Emission: Test Data CH-High





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Radiated Emission:

TX CH Low **Test Date** Dec. 18, 2007 Operation Mode

Fundamental Frequency 2402 MHz Test By Bondi Temperature Pol Ver. 25 °C

Humidity 65 %

	Peak	\mathbf{AV}		Actua	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
2386.2	39.56		-1.40	38.16		74.00	54.00	-15.84	Peak
2390.0	38.22		-1.39	36.83		74.00	54.00	-17.17	Peak

Operation Mode TX CH Low **Test Date** Dec. 18, 2007

Fundamental Frequency 2402 MHz Test By Bondi Temperature 25 °C Pol Hor.

Humidity 65 %

	Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
2386.2	41.59		-1.40	40.19		74.00	54.00	-13.81	Peak
2390.0	38.16		-1.39	36.77		74.00	54.00	-17.23	Peak

- (1) Datas 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 o
- (3) Spectrum Peak Setting: 1GHz-26GHz, RBW=1MHz, VBW=3MHz, Sweep time=200
- (4) Spectrum AV Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



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Radiated Emission:

Operation Mode TX CH High Test Date Dec. 18, 2007

Fundamental Frequency 2480 MHz Test By Bondi Temperature 25 °C Pol Ver.

Humidity 65 %

	Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
2483.5	49.15		-0.92	48.23		74.00	54.00	-5.77	Peak
2484.0	50.56		-0.92	49.64		74.00	54.00	-4.36	Peak

Operation Mode TX CH High Test Date Dec. 18, 2007 Fundamental Frequency 2480 MHz Test By Bondi Temperature 25 $^{\circ}$ C Pol Hor.

Humidity 65 %

		Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
	Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
•	2483.5	51.52		-0.92	50.60		74.00	54.00	-3.40	Peak
	2484.0	51.79		-0.92	50.87		74.00	54.00	-3.13	Peak

- (1) Datas 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 \circ
- (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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9. SPURIOUS RADIATED EMISSION TEST

9.1. 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.

9.2. EUT Setup

- 1. The radiated emission tests were performed in the 3 meter open-test site, using the setup in accordance with the ANSI C63.4-2003.
- 2. The EUT was put in the front of the test table. The peripherals was placed on the side of the host system. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- 3. The spacing between the peripherals was 10 centimeters.
- 4. External I/O cables were draped along the edge of the test table and bundle when necessary.
- 5. The host PC system was connected with 110Vac/60Hz power source.

9.3. Measurement Procedure

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- 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. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until all frequency measured were complete.



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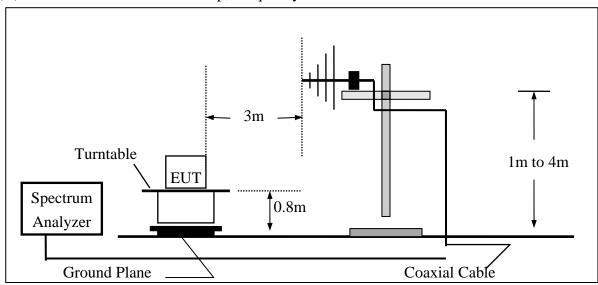
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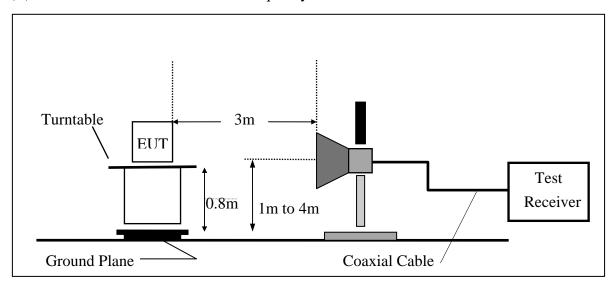
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9.4. Test SET-UP (Block Diagram of Configuration)

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



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





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9.5. **Measurement Equipment Used:**

	966 Chamber								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
Spectrum Analyzer	R&S	FSP 40	100034	05/27/2007	05/26/2008				
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2007	08/26/2008				
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2007	06/02/2008				
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2007	08/15/2008				
Horn antenna	Schwarzbeck	BBHA 9170	184/185	07/04/2007	07/03/2008				
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008				
Pre-Amplifier	HP	8494B	3008A00578	02/26/2007	02/25/2008				
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	10/09/2007	10/08/2008				
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008				
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008				

9.6. 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	

9.7. Measurement Result

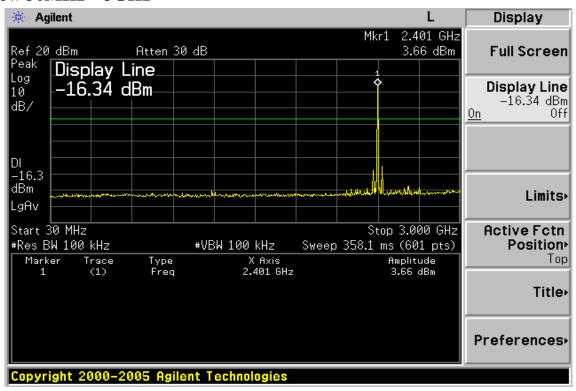
Refer to attach tabular data sheets.



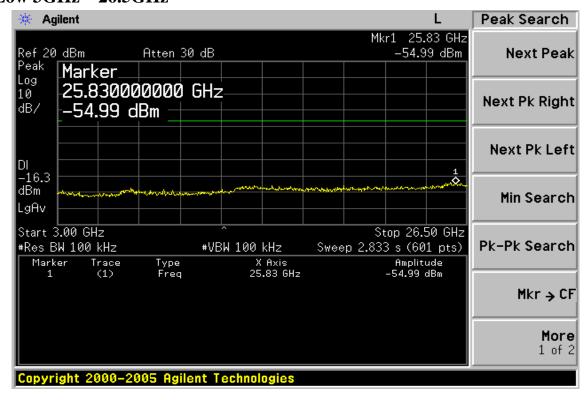
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Conducted Spurious Emission Measurement Result Ch Low 30MHz - 3GHz



Ch Low 3GHz - 26.5GHz

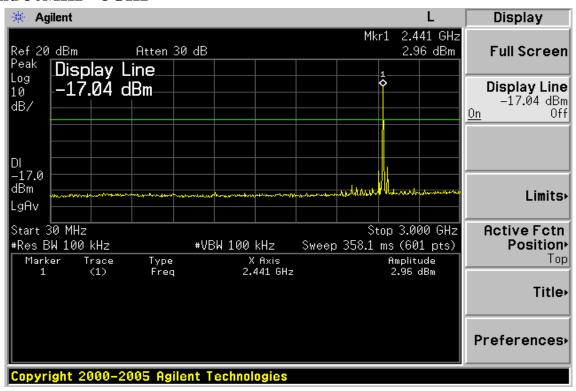




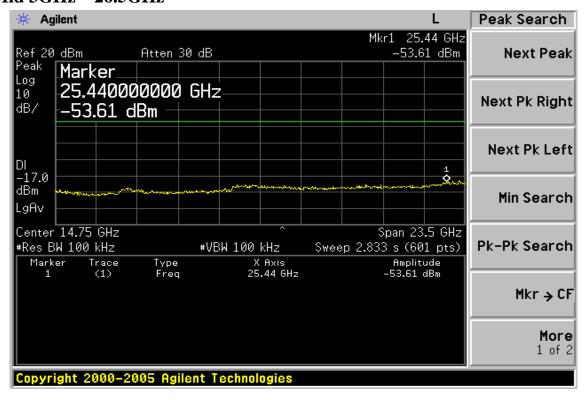
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Ch Mid 30MHz - 3GHz



Ch Mid 3GHz – 26.5GHz

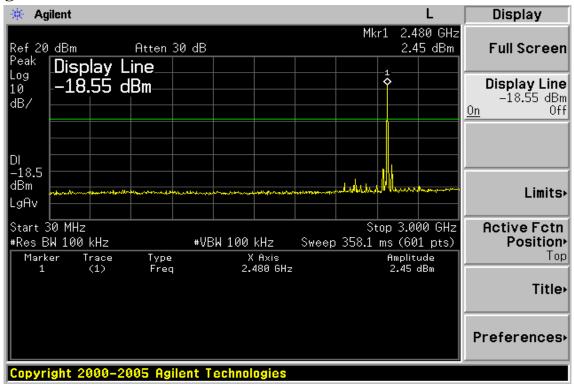




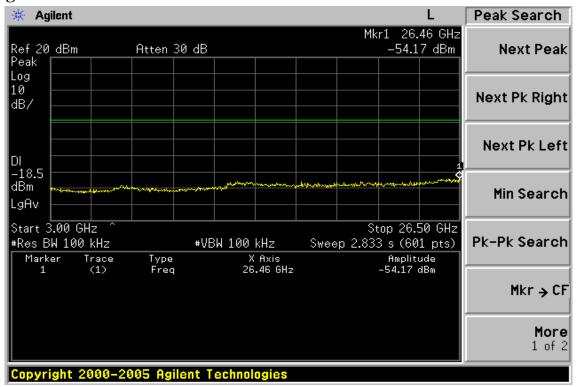
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Ch High 30MHz - 3GHz



Ch High 3GHz - 26.5GHz





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Radiated Spurious Emission Measurement Result (below 1GHz)

TX CH Low **Test Date** Dec. 18, 2007 Operation Mode

Fundamental Frequency 2402MHz Test By Bondi Temperature 25 °C Pol Ver./Hor.

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin	
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
58.13	V	Peak	42.71	-14.66	28.05	40.00	-11.95	
80.44	V	Peak	49.12	-17.84	31.28	40.00	-8.72	
101.78	V	Peak	44.88	-16.87	28.01	43.50	-15.49	
140.58	V	Peak	33.41	-13.65	19.76	43.50	-23.74	
177.44	V	Peak	34.21	-14.38	19.83	43.50	-23.67	
284.14	V	Peak	32.90	-13.28	19.62	46.00	-26.38	
58.13	Н	Peak	42.15	-14.66	27.49	40.00	-12.51	
75.59	Н	Peak	40.33	-17.13	23.20	40.00	-16.80	
96.93	Н	Peak	42.80	-17.16	25.64	43.50	-17.86	
150.28	Н	Peak	33.48	-12.83	20.65	43.50	-22.85	
232.73	Н	Peak	33.74	-14.37	19.37	46.00	-26.63	
449.04	Н	Peak	32.81	-8.61	24.20	46.00	-21.80	

- 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 Datas 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 (below 1GHz)

Operation Mode TX CH Mid Test Date Dec. 18, 2007

Fundamental Frequency 2441MHz Test By Bondi Temperature 25 °C Pol Ver./Hor

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
58.13	V	Peak	42.45	-14.66	27.79	40.00	-12.21
101.78	V	Peak	42.70	-16.87	25.83	43.50	-17.67
150.28	V	Peak	32.39	-12.83	19.56	43.50	-23.94
177.44	V	Peak	33.75	-14.38	19.37	43.50	-24.13
284.14	V	Peak	32.73	-13.28	19.45	46.00	-26.55
640.13	V	Peak	32.29	-5.19	27.10	46.00	-18.90
58.13	Н	Peak	41.59	-14.66	26.93	40.00	-13.07
75.59	Н	Peak	39.61	-17.13	22.48	40.00	-17.52
96.93	Н	Peak	41.66	-17.16	24.50	43.50	-19.00
150.28	Н	Peak	31.84	-12.83	19.01	43.50	-24.49
247.28	Н	Peak	33.50	-13.93	19.57	46.00	-26.43
449.04	Н	Peak	33.80	-8.61	25.19	46.00	-20.81

- 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 Datas 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 (below 1GHz)

TX CH High **Test Date** Dec. 18, 2007 Operation Mode

Fundamental Frequency 2480MHz Test By Bondi Temperature 25 °C Pol Ver./Hor

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin	
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
58.13	V	Peak	43.44	-14.66	28.78	40.00	-11.22	
101.78	V	Peak	45.40	-16.87	28.53	43.50	-14.97	
140.58	V	Peak	33.97	-13.65	20.32	43.50	-23.18	
177.44	V	Peak	33.81	-14.38	19.43	43.50	-24.07	
286.08	V	Peak	34.16	-13.26	20.90	46.00	-25.10	
596.48	V	Peak	33.45	-6.12	27.33	46.00	-18.67	
58.13	Н	Peak	41.53	-14.66	26.87	40.00	-13.13	
96.93	Н	Peak	42.06	-17.16	24.90	43.50	-18.60	
138.64	Н	Peak	33.20	-13.80	19.40	43.50	-24.10	
247.28	Н	Peak	34.04	-13.93	20.11	46.00	-25.89	
449.04	Н	Peak	33.76	-8.61	25.15	46.00	-20.85	
591.63	Н	Peak	33.87	-6.30	27.57	46.00	-18.43	

- 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 Datas 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 Dec. 18, 2007 Test Date

Fundamental Frequency 2402 MHz Test By Bondi Pol Ver. Temperature 25 °C

Humidity 65 %

	Peak	\mathbf{AV}		Act	ual FS	Peak	\mathbf{AV}		
Freq.	U	Reading			AV	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m	n](dBuV/m)(dBuV/m)	(dBuV/m)	(dB)	i
1188.5	46.30		-7.33	38.97		74.00	54.00	-15.03	Peak
4804.0									
7206.0									
9608.0									
12010.0									
14412.0									
16814.0									
19216.0									
21618.0									
24020.0									

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency o
- (2) Datas 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 o
- (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 (above 1GHz)

TX CH Low **Test Date** Dec. 18, 2007 Operation Mode

Fundamental Frequency 2402 MHz Test By Bondi Temperature Pol Hor 25 °C

Humidity 65 %

	Peak	\mathbf{AV}		Acti	ual FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	_
1188.5	48.98		-7.33	41.65		74.00	54.00	-12.35	Peak
4804.0									
7206.0									
9608.0									
12010.0									
14412.0									
16814.0									
19216.0									
21618.0									
24020.0									

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency o
- (2) Datas 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 o
- (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 (above 1GHz)

TX CH Mid **Test Date** Dec. 18, 2007 Operation Mode

Fundamental Frequency 2441 MHz Test By Bondi Temperature 25 °C Pol Ver

Humidity 65 %

	Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	•
1221.0	44.23		-7.17	37.06		74.00	54.00	-16.94	Peak
4882.0									
7323.0									
9764.0									
12205.0									
14646.0									
17087.0									
19528.0									
21969.0									
24410.0									

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency o
- (2) Datas 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 o
- (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 (above 1GHz)

Operation Mode TX CH Mid Test Date Dec. 18, 2007

Fundamental Frequency 2441 MHz Test By Bondi Temperature Pol Hor 25 °C

65 % Humidity

	Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1221.0	47.17		-7.17	40.00		74.00	54.00	-14.00	Peak
4882.0									
7323.0									
9764.0									
12205.0									
14646.0									
17087.0									
19528.0									
21969.0									
24410.0									

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency o
- (2) Datas 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 o
- (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 (above 1GHz)

TX CH High **Test Date** Dec. 18, 2007 Operation Mode

Fundamental Frequency 2480 MHz Test By Bondi Temperature 25 °C Pol Ver.

Humidity 65 %

	Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	•
1240.5	42.86		-7.08	35.78		74.00	54.00	-18.22	Peak
4960.0									
7440.0									
9920.0									
12400.0									
14880.0									
17360.0									
19840.0									
22320.0									
24800.0									

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency o
- (2) Datas 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 o
- (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 (above 1GHz)

Dec. 18, 2007 Operation Mode TX CH High **Test Date**

Fundamental Frequency 2480 MHz Test By Bondi Temperature 25 °C Pol Hor

65 % Humidity

		Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
	Freq.	Reading	Reading	Ant./CL	Peak	\mathbf{AV}	Limit	Limit	Margin	
	(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	•
•	1240.5	45.18		-7.08	38.10		74.00	54.00	-15.90	Peak
	4960.0									
	5790.5									
	7440.0									
	9920.0									
	12400.0									
	14880.0									
	17360.0									
	19840.0									
	22320.0									
	24800.0									

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency o
- (2) Datas 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 o
- (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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10. FREQUENCY SEPARATION

10.1. Standard Applicable

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25KHz or the 20dB bandwidth of the hopping channel, whichever is greater.

10.2. 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 = middle of hopping channel.
- 4. Set the spectrum analyzer as RBW, VBW=100KHz, Adjust Span to 5 MHz, Sweep = auto.
- 5. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

10.3. Measurement Result

Channel separation	Limit	Result
MHz	kHz	
1	>=25KHz or 2/3*20 dB bandwidth	PASS

10.4. Measurement Equipment Used:

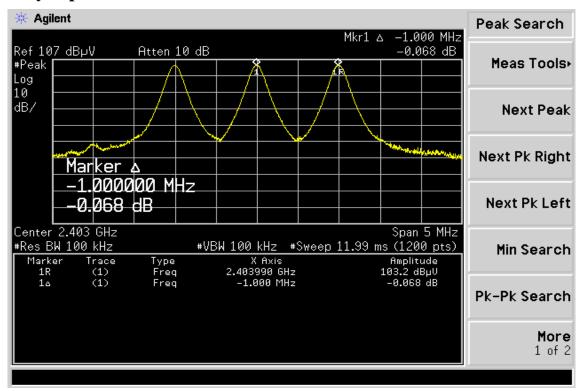
	Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2007	03/28/2008				
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/29/2008				
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008				
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A				
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008				
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2007	10/06/2008				
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2007	10/06/2008				



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Frequency Separation Test Data



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11. NUMBER OF HOPPING FREQUENCY

11.1. Standard Applicable

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

11.2. 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 spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
- 4. Set the spectrum analyzer as RBW, VBW=100KHz,
- 5. Max hold, view and count how many channel in the band.

11.3. Measurement Result

Total No of	Limit (CH)	Measurement result (CH)	Result
hopping channel	15	79	Pass

11.4. Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2007	03/28/2008			
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/29/2008			
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008			
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A			
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008			
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2007	10/06/2008			
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2007	10/06/2008			

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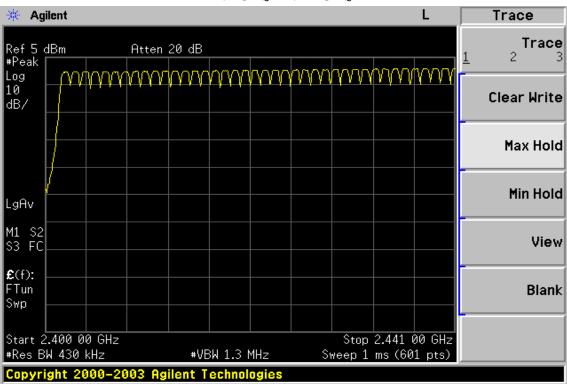


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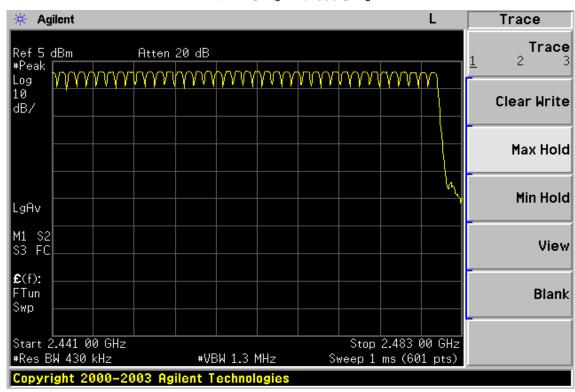
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Channel Number

2.4 GHz - 2.441GHz



2.441 GHz - 2.4835GHz



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12. TIME OF OCCUPANCY (DWELL TIME)

12.1. Standard Applicable

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

12.2. 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 = 0Hz, Adjust Sweep = 30s.
- 5. Repeat above procedures until all frequency measured were complete.

12.3. Measurement Result

The dwell time of 0.312 s within a 30 second period in data mode is independent from the packet type (packet length). The calculation for a 30 second period is a follows:

Dwell time = time slot length * hop rate / number of hopping channels *30s

A period time = 0.4 (ms) * 79 = 31.6 (s)

CH Low: DH1 time slot = 0.405 (ms) * (1600/(1*79)) * 31.6 = 259.2 (ms)

DH3 time slot = 1.675 (ms) * (1600/(3*79)) * 31.6 = 357.3 (ms)

DH5 time slot = 2.925 (ms) * (1600/(5*79)) * 31.6 = 374.4 (ms)

CH Mid: DH1 time slot = 0.405 (ms) * (1600/(1*79)) * 31.6 = 259.2 (ms)

DH3 time slot = 1.675 (ms) * (1600/(3*79)) * 31.6 = 357.3 (ms)

DH5 time slot = 2.906 (ms) * (1600/(5*79)) * 31.6 = 372.0 (ms)

CH High: DH1 time slot = 0.416 (ms) * (1600/(1*79)) * 31.6 = 266.2 (ms)

DH3 time slot = 1.662 (ms) * (1600/(3*79)) * 31.6 = 354.6 (ms)

DH5 time slot = 2.906 (ms) * (1600/(5*79)) * 31.6 = 372.0 (ms)

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12.4. Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2007	03/28/2008			
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/29/2008			
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008			
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A			
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008			
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2007	10/06/2008			
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2007	10/06/2008			



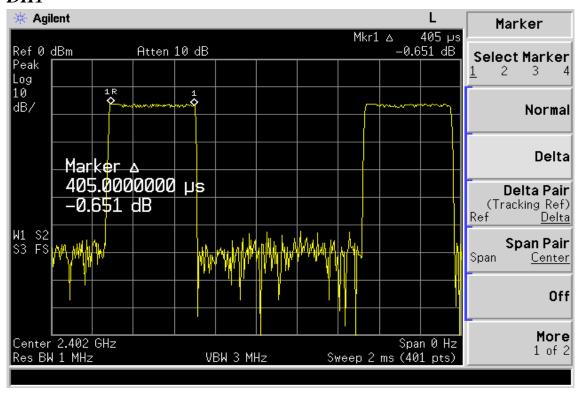
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Dwell Time Test Data

CH-Low

DH1

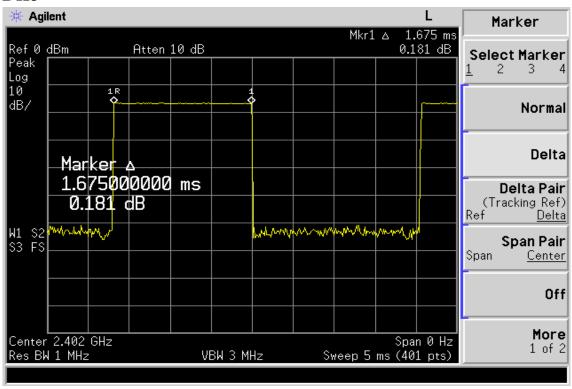




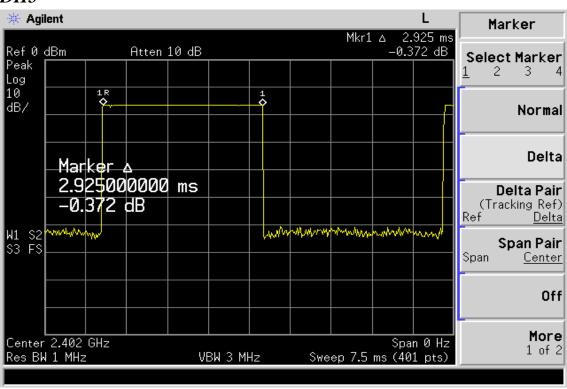
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DH3



DH5



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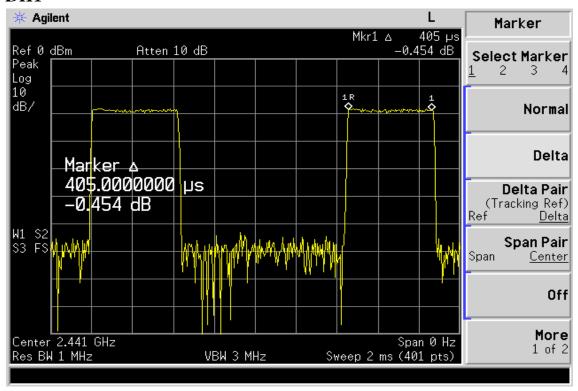


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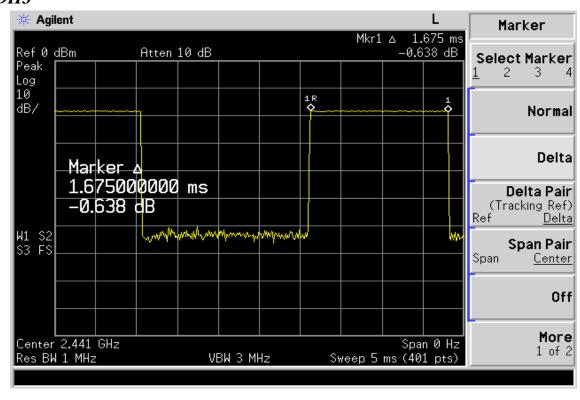
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CH-Mid

DH1



DH3



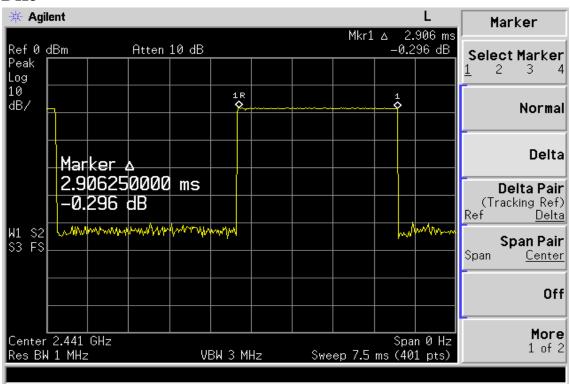
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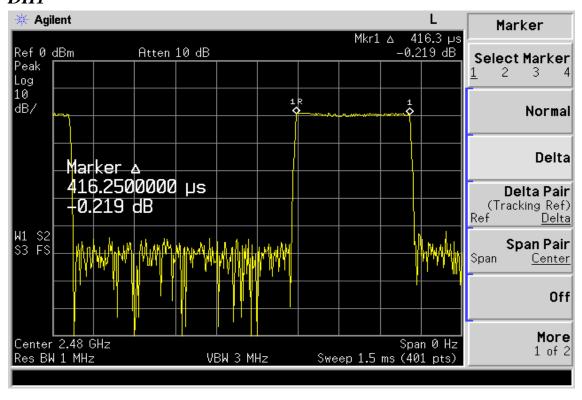
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DH5



CH-High

DH1



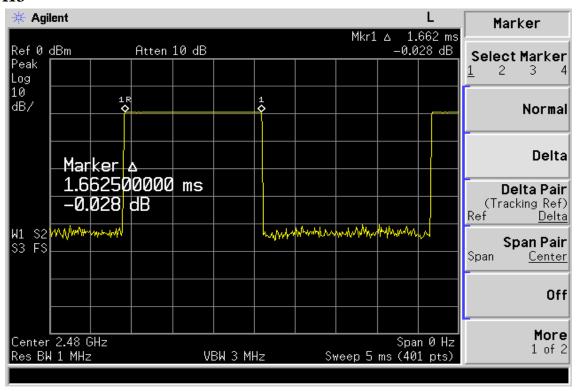
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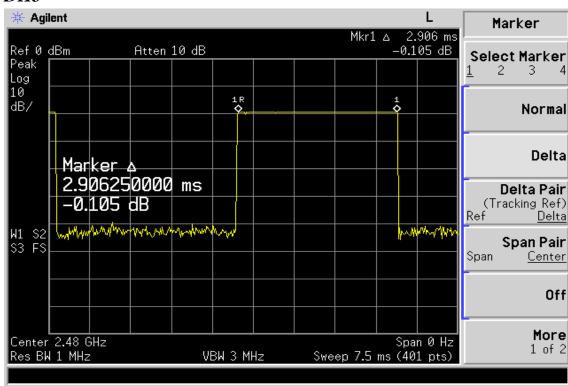
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DH3



DH5



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13. Peak Power Spectral Density

13.1. Standard Applicable

According to §15.247(d), for direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3kHz band during any time interval of continuous transmission.

13.2. 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 the spectrum analyzer as RBW = 3KHz, VBW = 10KHz, Span = 1.5MHz, Sweep=100s
- 4. Record the max. reading.
- 5. Repeat above procedures until all frequency measured were complete.

13.3. Measurement Result

СН	RF Power Density	Cable loss	RF Power Density	Maximum Limit	
	Reading (dBm)	(dB)	Level (dBm)	(dBm)	
Low	-6.84	0.10	-6.74	8	
Mid	-7.53	0.10	-7.43	8	
High	-8.16	0.10	-8.06	8	

13.4. Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2007	03/28/2008			
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/29/2008			
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008			
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A			
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008			
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2007	10/06/2008			
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2007	10/06/2008			

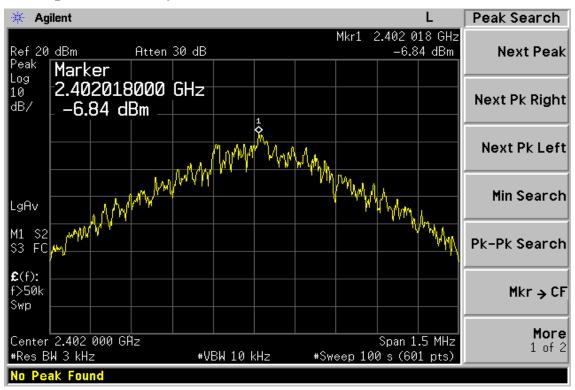
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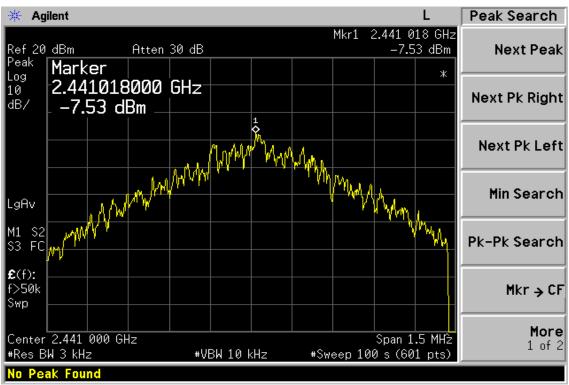
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Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



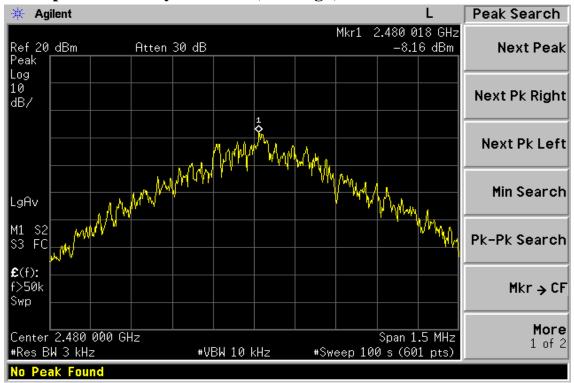
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Power Spectral Density Test Plot (CH-High)





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14. ANTENNA REQUIREMENT

14.1. Standard Applicable

For intentional device, 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 §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

14.2. Antenna Connected Construction

The directional gains of antenna used for transmitting is 3.0 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.