

Report No.: EH/2009/40011 Issue Date: May. 06, 2009

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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Pocket PC Phone

Brand Name: HTC

Model Name: RHOD300

Model Difference: N/A

FCC ID: NM8RHOD300

Report No.: EH/2009/40011

Issue Date: May. 06, 2009

FCC Rule Part: §15.247, Cat: DSS

Prepared for: HTC Corporation

No. 23 Xinghua Rd., Taoyuan City, Taoyuan

County 330, Taiwan, ROC

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No. 134, Wu Kung Rd., Wuku Industrial

Zone, Taipei County, Taiwan



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VERIFICATION OF COMPLIANCE

HTC Corporation Applicant:

No. 23 Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan,

ROC

Pocket PC Phone **Equipment Under Test:**

Brand Name: HTC

Model No.: RHOD300

Model Difference: N/A

FCC ID: NM8RHOD300 EH/2009/40011 File Number:

Apr. 20, 2009 ~ May. 04, 2009 Date of test:

Date of EUT Received: Apr. 20, 2009

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:	Brian	Charg	Date:	May. 06, 2009	
	Brian Cha	ng / Engineer			
Prepared By:	Alex	Hsieh	Date:	May. 06, 2009	
Approved By:		/Sr. Engineer	Date:	May. 06, 2009	
-	Vincent S	u / Manager			

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Version

Version No.	Date	Description
00	May. 06, 2009	Initial creation of document
01	Jun. 03, 2009	Update EDR for peak power test data.

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1. GENERAL INFORMATION

General:

Product Name:	Pocket PC Phone		
Brand Name:	HTC		
Model Name:	RHOD300		
Model Difference:	N/A		
Simple Hands-Free (SHF):	N/A		
Audio Cable:	4 in 1 audio cable, Model No.: YC A300, Supplier: MEC		
Data Cable (USB):	 Model No.: DC U200, Supplier: Mec Model No.: DC U200, Supplier: Acon Model No.: DC U200, Supplier: CHENG UEI 		
Power Supply:	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter 1. P/N: 35H00123-00M & 35H00123-06M,		

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GSM and WCDMA:

	Operating Frequency			
	GSM/GPRS/EDGE, 850, Class 10	824.2 MHz– 848.8 MHz	33 dBm	
	GSM/GPRS/EDGE, 900, Class 10	880.2MHz – 914.8MHz	33 dBm	
	GSM/GPRS/EDGE, 1800, Class 10	1710.2MHz-1784.8MHz	30 dBm	
Cellular Phone Standards Frequency Range and	GSM/GPRS/EDGE, 1900, Class 10	1850.2MHz – 1909.8MHz	30 dBm	
Power:	WCDMA/HSDPA Band II	1852.4MHz – 1907.6MHz	24 dBm	
	WCDMA /HSDPA Band V	826.4MHz -846.6MHz	24 dBm	
	HSDPA data rate: uplink up to 384kbps data rate: downlink up to 3.6Mbps, Release 5			
Type of Emission:	GSM 850: 245KGXW, GSM 1900 :248KGXW EDGE 850: 242KG7W, EDGE 1900:246KG7W			
	WCDMA B2: 4M18F9W, WCDMA B5: 4M17F9W			
Hardware Version:	N/A			
Software Version:	ersion: N/A			
TAC Code:	35885002 35885102			



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WLAN: 802.11 b/g

Frequency Range:	2412 – 2462 MHz
Channel number:	11 channels
Transmit Power:	⊠802.11 b: 18.51 dBm EIRP ⊠802.11 g: 13.46 dBm EIRP
Modulation Technology:	⊠DSSS, ⊠OFDM
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
Antenna Designation:	PIFA Antenna, -1dBi.
Type of Emission:	16M3D1D

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

Bluetooth:

Frequency Range:	2402 – 2480MHz	
Bluetooth Version:	 V1.1 (GFSK) V1.2 (GFSK) V2.0 (GFSK) V2.0 + EDR (GFSK + π/4DQPSK + 8DPSK) V2.1 + EDR (GFSK + π/4DQPSK + 8DPSK) 	
Channel number:	79 channels	
Modulation type:	Frequency Hopping Spread Spectrum	
Transmit Power:	1.04 dBm EIRP	
Dwell Time:	<= 0.4s	
Operating Mode:	Point-to-Point	
Antenna Designation:	PIFA Antenna, -1dBi.	
Type of Emission:	1M27FXD	

The EUT is compliance with Bluetooth 2.0 + EDR Standard.

This report applies for Bluetooth.

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

This submittal(s) (test report) is intended for FCC ID: NM8RHOD300 filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules. The composite system (digital device) is compliance with Subpart B is authorized under a Doc procedure.

1.2. 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.

1.3. 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. Electronics & Communication Laboratory 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-1

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory 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.

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. 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 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 reguirements in Section 8 and 13 and Subclause 8.3.1.2 of ANSI C63.4: 2003.

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2.4. Configuration of Tested System

Fig. 2-1 AC Power line and Radiated Emission Configuration

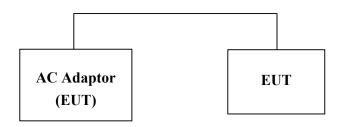


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1	Software	N/A	N/A	N/A	N/A	N/A

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	Conducted Emission	Compliant
§15.247(b)(1)	Peak Output Power	Compliant
§15.247(a)	20dB Bandwidth	No Limit
§15.247I	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, Mid and High with highest rated data rate were chosen for full testing.

The field strength of spurious 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. CONDUCTED EMISSION TEST

5.1. Standard Applicable

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

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 120Vac/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.

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^{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.	CAL DUE.					
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2008	09/15/2009					
LISN	Rolf-Heine	NNB-2/16Z	99012	04/28/2009	04/27/2010					
LISN FCC		FCC-LISN-50/250-25-2-01	04034	04/28/2009	04/27/2010					
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2008	10/29/2009					

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.

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Humidity:

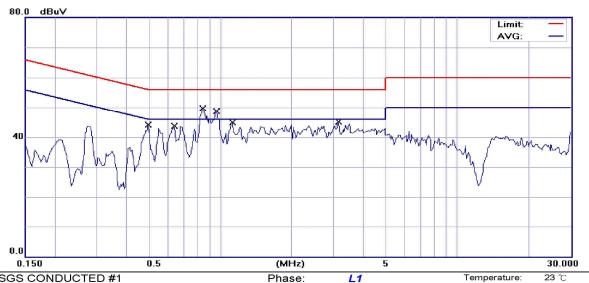
Air Pressure:

hpa

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WIFI + Bluetooth	Mode	Test Date:	Apr. 28, 2009	
Temperature:	23 °C	Humidity:	58 %	Test By:	Brian



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: CISPR22/11 Class B Conduction(QP)

EUT: Pocket PC Phone

M/N: RHOD300 Note: BT + WLAN Link

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4888	39.10	0.07	39.17	56.19	-17.02	QP	
2		0.4888	33.40	0.07	33.47	46.19	-12.72	AVG	
3		0.6403	40.50	0.08	40.58	56.00	-15.42	QP	
4		0.6403	31.40	0.08	31.48	46.00	-14.52	AVG	
5		0.8482	46.80	0.08	46.88	56.00	-9.12	QP	
6	*	0.8482	38.60	0.08	38.68	46.00	-7.32	AVG	
7		0.9649	45.10	0.09	45.19	56.00	-10.81	QP	
8		0.9649	36.30	0.09	36.39	46.00	-9.61	AVG	
9		1.1100	40.10	0.09	40.19	56.00	-15.81	QP	
10		1.1100	30.20	0.09	30.29	46.00	-15.71	AVG	
11		3.1580	38.50	0.14	38.64	56.00	-17.36	QP	
12		3.1580	30.90	0.14	31.04	46.00	-14.96	AVG	

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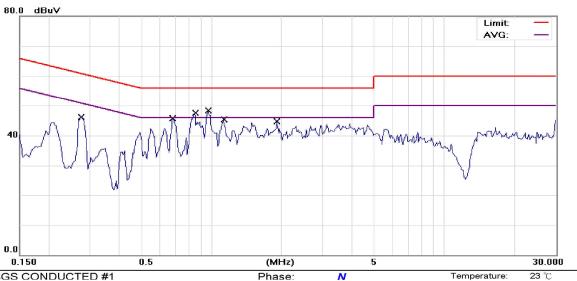
Humidity:

Air Pressure:

60 %

hpa

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Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: CISPR22/11 Class B Conduction(QP)

EUT: Pocket PC Phone

M/N: RHOD300 Note: BT + WLAN Link

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
-		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2785	42.50	0.11	42.61	60.86	-18.25	QP	
2		0.2785	29.20	0.11	29.31	50.86	-21.55	AVG	
3		0.6762	36.90	0.09	36.99	56.00	-19.01	QP	
4		0.6762	22.60	0.09	22.69	46.00	-23.31	AVG	
5	*	0.8423	43.60	0.09	43.69	56.00	-12.31	QP	
6		0.8423	29.60	0.09	29.69	46.00	-16.31	AVG	
7		0.9772	43.50	0.10	43.60	56.00	-12.40	QP	
8		0.9772	28.20	0.10	28.30	46.00	-17.70	AVG	
9		1.1203	40.10	0.10	40.20	56.00	-15.80	QP	
10		1.1203	23.10	0.10	23.20	46.00	-22.80	AVG	
11		1.9070	38.20	0.13	38.33	56.00	-17.67	QP	
12		1.9070	24.20	0.13	24.33	46.00	-21.67	AVG	

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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 Equipment Used

Conducted Emission Test Site										
EQUIPMENT	MFR	MFR MODEL SERIAI		LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010					
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/23/2008	01/22/2010					
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009					
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2009	01/04/2010					
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2008	07/04/2009					
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2008	07/04/2009					
Attenuator Mini-Circuit		BW-S20W5	001	07/05/2008	07/04/2009					
Splitter	Agilent	11636B	N/A	07/05/2008	07/04/2009					

6.3. Test Set-up:



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

6.5. Measurement Result

BDR mode:

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	-1.05	0.00	-1.05	0.00079	1
2441.00	-0.65	0.00	-0.65	0.00086	1
2480.00	-1.46	0.00	-1.46	0.00071	1

EDR mode:

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	0.50	0.00	0.50	0.00112	1
2441.00	1.04	0.00	1.04	0.00127	1
2480.00	0.19	0.00	0.19	0.00104	1

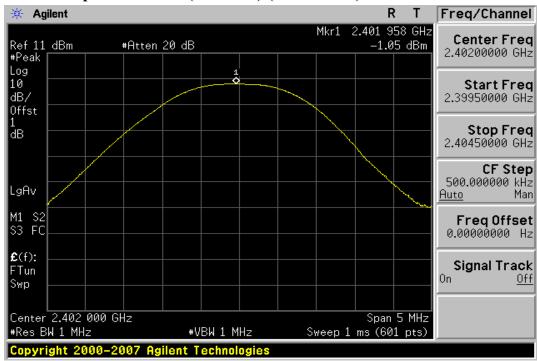
NOTE: offset: 1dB



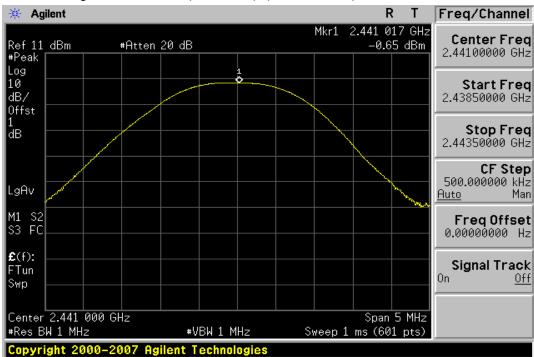
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Peak Power Output Data Plot (CH Low) (BDR mode)



Peak Power Output Data Plot (CH Mid) (BDR mode)



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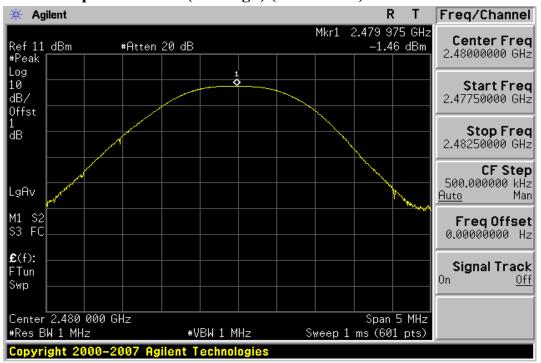
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Peak Power Output Data Plot (CH High) (BDR mode)



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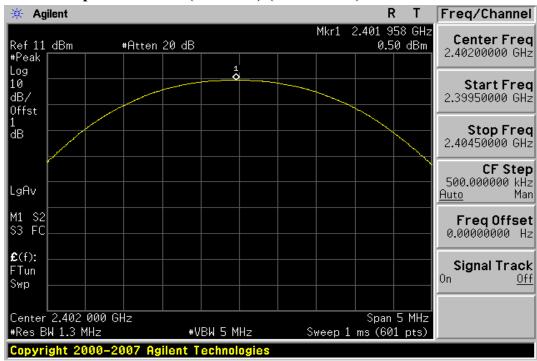
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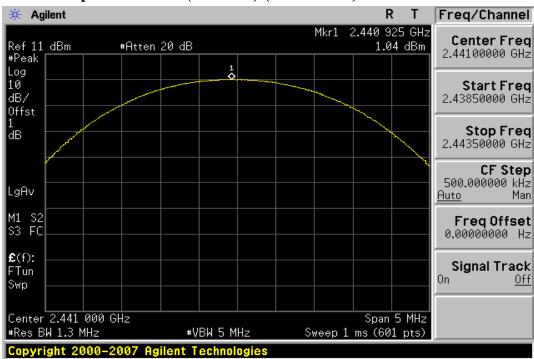
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Peak Power Output Data Plot (CH Low) (EDR mode)



Peak Power Output Data Plot (CH Mid) (EDR mode)



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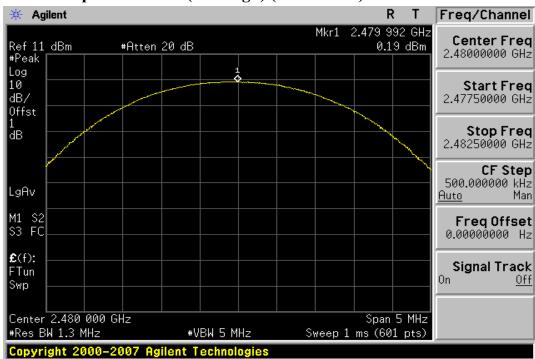
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Peak Power Output Data Plot (CH High) (EDR mode)



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7. 20dB BAND WIDTH

7.1. Standard Applicable

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

7.2. Measurement Equipment Used

Refer to section 6.2 for details.

7.3. Test Set-up

Refer to section 6.3 for details.

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 the spectrum analyzer BDR mode as RBW=15KHz VBW=43KHz (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.



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7.5. Measurement Result:

BDR Mode

DDK Widge	
СН	Bandwidth
	(KHz)
Lower	923.167
Mid	923.935
Higher	923.320

EDR Mode

СН	Bandwidth	2/3 Bandwidth
	(MHz)	(MHz)
Lower	1.272	0.848
Mid	1.270	0.847
Higher	1.272	0.848



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20dB Band Width Test Data CH-Low (BDR mode)



20dB Band Width Test Data CH-Mid (BDR mode)



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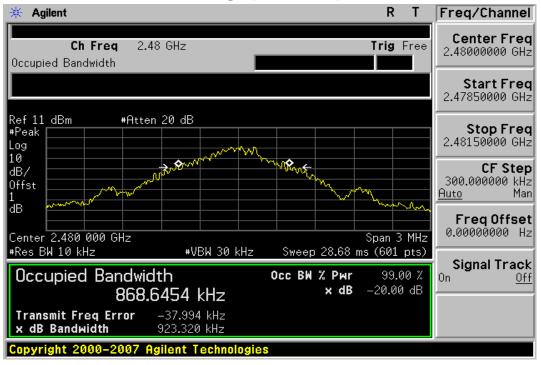
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20dB Band Width Test Data CH-High (BDR mode)



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20dB Band Width Test Data CH-Low (EDR mode)



20dB Band Width Test Data CH-Mid (EDR mode)



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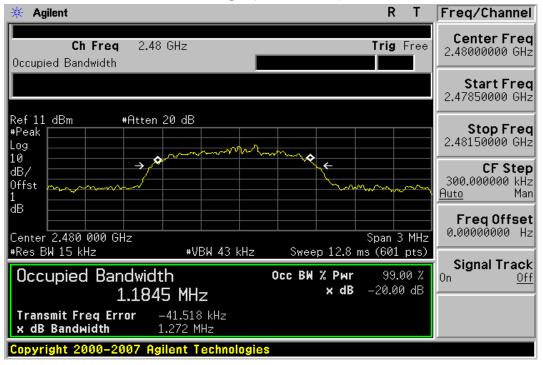
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20dB Band Width Test Data CH-High (EDR mode)



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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 Equipment Used

8.2.1. Conducted Emission at antenna port:

Refer to section 6.2 for details.

8.2.2. Radiated emission:

	966 Chamber											
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.							
TYPE		NUMBER	NUMBER	CAL.								
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2009	02/11/2010							
Loop antenna	MESSTEC	FLA30	03/10086	06/06/2007	06/05/2009							
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009							
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010							
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009							
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010							
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	01/05/2009	01/04/2010							
Low Loss Cable HUBER+SUHNER		SUCOFLEX 104PEA-3M	3m	01/05/2009	01/04/2010							
3m Site	SGS	966 chamber	N/A	11/08/2008	11/09/2009							

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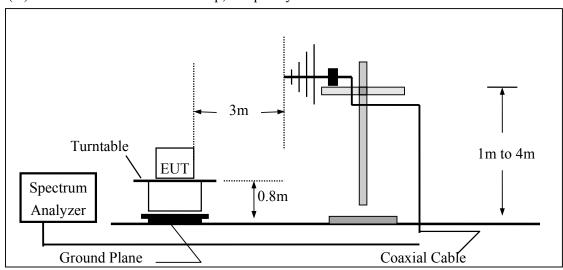
8.3. Test SET-UP:

8.3.1. Conducted Emission at antenna port:

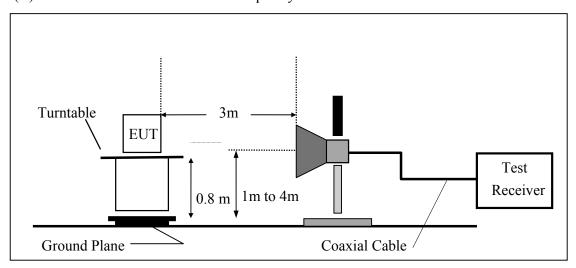
Refer to section 6.3 for details.

8.3.2. Radiated emission:

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



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



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8.4. 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. Radiated Emission refer to section 9.

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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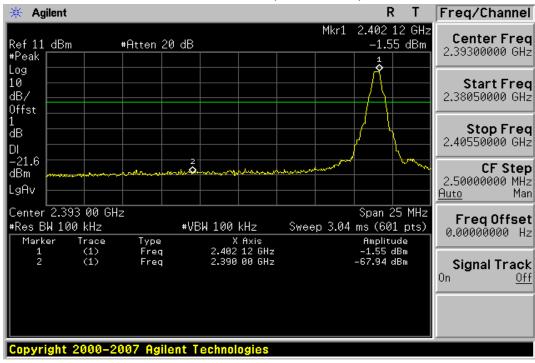
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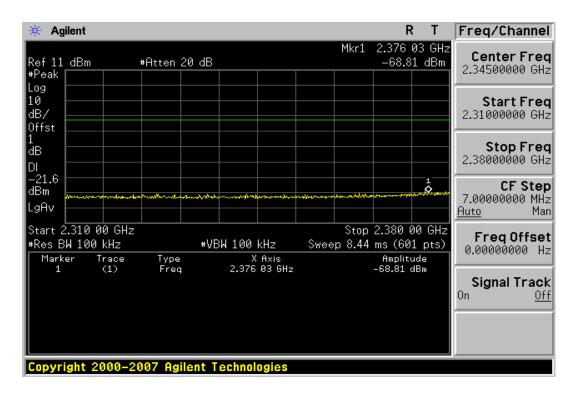


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Conducted Emission: Test Data CH-Low (BDR mode)





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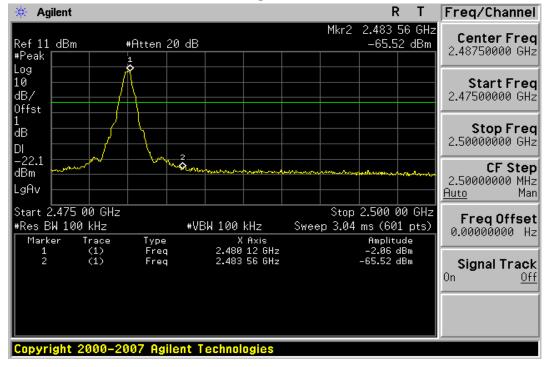
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Conducted Emission: Test Data CH-High



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Radiated Emission: (BDR mode)

Operation Mode TX CH Low Test Date Apr. 28, 2009

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

Humidity 65 %

	Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading		P ea k	AV	Limit	Limit	O	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/n	n) (dB)	
23 90.00	42.01		-10.76	31.25		74.00	54.00	-22.75	Peak
Operation Mode TX CH Low					Test	Date	Apr. 28, 20	009	
Fundamen	tal Freque	ncy 2402	MHz			Test	By	Brian	
Temperatu	re	25 ℃				Pol		Hor.	
Humidity		65 %							
	Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	P ea k	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/n	i) (dB)	
2390.00	42.64		-10.76	31.88		74.00	54.00	-22.12	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 columno
- (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: (BDR mode)

Operation Mode TX CH High Test Date Apr. 28, 2009

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

Humidity 65 %

	Peak	AV		Actual FS		P eak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	P ea k	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/n	(dB)	
2483.56	40.57		-10.46	30.11		74.00	54.00	-23.89	Peak
Operation Mode TX CH High Fundamental Frequency 2480 MHz						Test Date Test By		Apr. 28, 2009 Brian	
Temperature $25 ^{\circ}\text{C}$					Pol		Hor.		
Humidity		65 %							
	Peak	\mathbf{AV}		Actual FS		P eak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	P ea k	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/n	(dB)	
2483.56	40.28		-10.46	29.82		74.00	54.00	-24.18	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_o
- (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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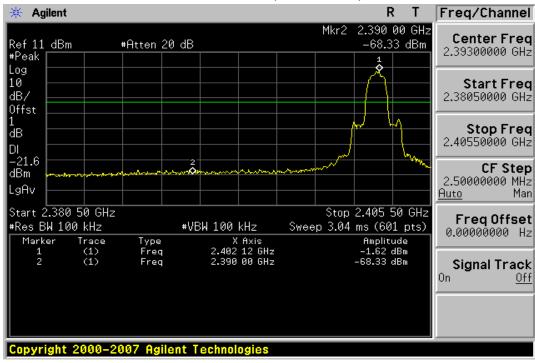
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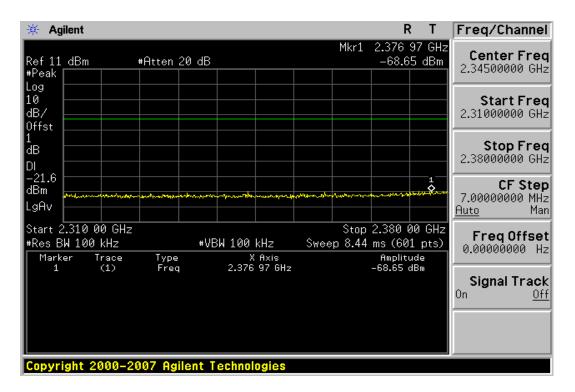


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Conducted Emission: Test Data CH-Low (EDR mode)





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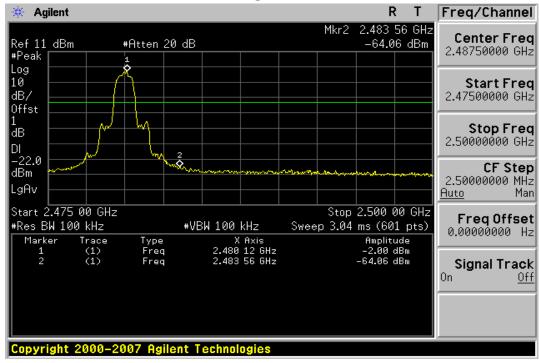
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Conducted Emission: Test Data CH-High



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Radiated Emission: (EDR mode)

Operation Mode TX CH Low Test Date Apr. 28, 2009

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

Humidity 65 %

	Peak	\mathbf{AV}		Actu	al FS	P eak	\mathbf{AV}		
Freq. (MHz)	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/n	U	Remark
23 90.00	41.12		-10.76	30.36		74.00	54.00	-23.64	Peak
Operation Mode TX CH Low Fundamental Frequency 2402 MHz Temperature 25 °C Humidity 65 %		MHz			Test Test Pol	t By	Apr. 28, 29 Brian Hor.	009	
	Peak	AV		Actu	al FS	P eak	\mathbf{AV}		
Freq. (MHz)	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/n	0	Remark
2390.00	41.96		-10.76	31.20		74.00	54.00	-22.80	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_o
- (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: (BDR mode)

Operation Mode TX CH High Test Date Apr. 28, 2009

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

Humidity 65 %

	Peak	AV		Actu	al FS	P eak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	P ea k	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/n	(dB)	
2483.56	41.54		-10.46	31.08		74.00	54.00	-22.92	Peak
Operation Mode TX CH H		_			Test Test	Date	Apr. 28, 20 Brian	009	
Fundamental Frequency 2480 MHz Temperature 25 °C						Pol	-	Hor.	
Humidity		65 %				101		1101.	
	Peak	\mathbf{AV}		Actu	al FS	P eak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	P ea k	\mathbf{AV}	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/n	n) (dB)	
2483.56	40.49		-10.46	30.03		74.00	54.00	-23.97	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_o
- (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. Measurement Equipment Used:

9.2.1. Conducted Emission at antenna port:

Refer to section 6.2 for details.

9.2.2. Radiated emission:

Refer to section 7.2 for details.

9.3. Test SET-UP:

9.3.1. Conducted Emission at antenna port:

Refer to section 6.3 for details.

9.3.2. Radiated emission:

Refer to section 7.3 for details.

9.4. 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.

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9.5. 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	

9.6. Measurement Result:

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

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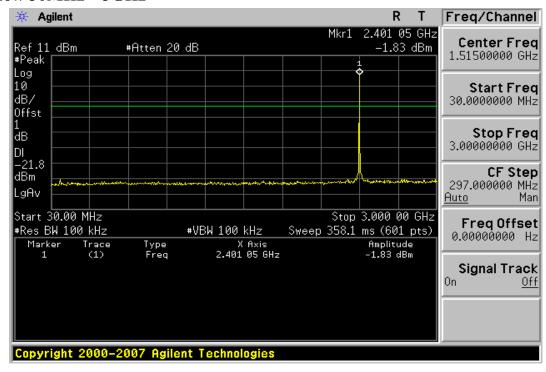
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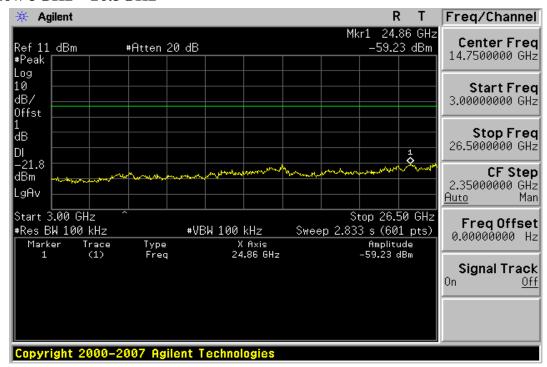
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Conducted Spurious Emission Measurement Result (EDR mode) Ch Low 30MHz - 3GHz



Ch Low 3GHz – 26.5GHz



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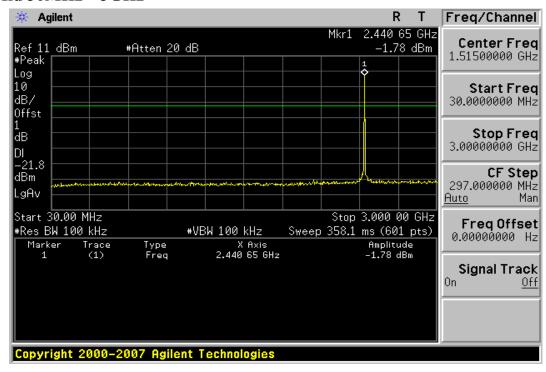
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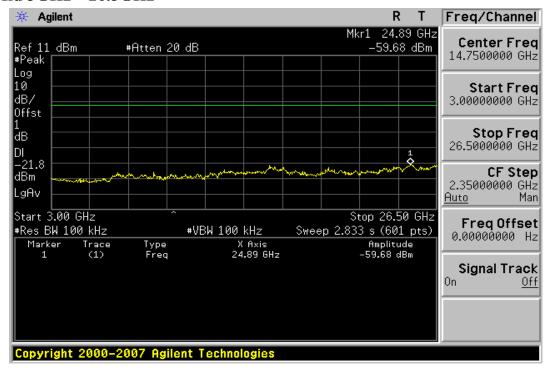
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Ch Mid 30MHz - 3GHz



Ch Mid 3GHz – 26.5GHz



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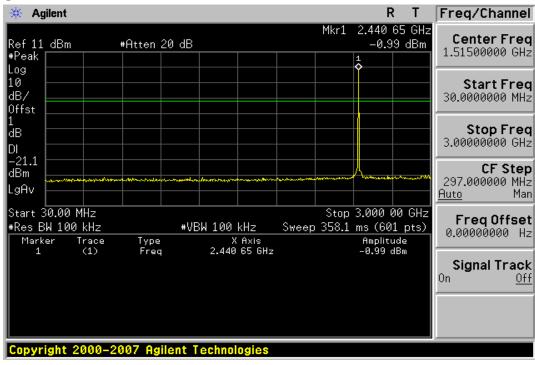
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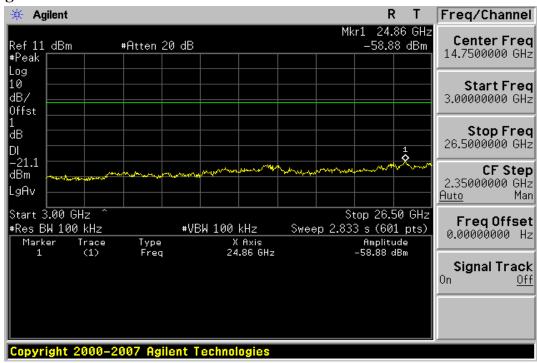
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Ch High 30MHz - 3GHz



Ch High 3GHz – 26.5GHz



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

Operation Mode TX CH Low Test Date May. 01, 2009

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

65 % Humidity

Freq.	q. Ant.P	ol. Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin	
(MH	(z) H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
58.1	.3 V	Peak	53.68	-26.67	27.01	40.00	-12.99	
85.2	29 V	Peak	55.49	-30.75	24.74	40.00	-15.26	
184.	23 V	Peak	49.94	-30.00	19.94	43.50	-23.56	
56.1	.9 H	Peak	48.74	-26.51	22.23	40.00	-17.77	
85.2	29 H	Peak	51.43	-30.75	20.68	40.00	-19.32	
162.	89 H	Peak	46.19	-27.18	19.01	43.50	-24.49	

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 (below 1GHz)

TX CH Mid Operation Mode Test Date May. 01, 2009

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

65 % Humidity

Freq.	Ant.Pol.	Detector Mode	Reading		Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
58.13	V	Peak	53.39	-26.67	26.72	40.00	-13.28
85.29	V	Peak	54.89	-30.75	24.14	40.00	-15.86
182.29	V	Peak	49.31	-29.76	19.55	43.50	-23.95
59.10	Н	Peak	45.27	-26.83	18.44	40.00	-21.56
135.73	Н	Peak	45.80	-27.87	17.93	43.50	-25.57
182.29	Н	Peak	47.67	-29.76	17.91	43.50	-25.59

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 (below 1GHz)

TX CH High Operation Mode Test Date May. 01, 2009

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

65 % Humidity

Freq.	. Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz	e) H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
58.13	V	Peak	53.27	-26.67	26.60	40.00	-13.40
85.29	V	Peak	55.47	-30.75	24.72	40.00	-15.28
184.2	3 V	Peak	49.55	-30.00	19.55	43.50	-23.95
53.28	В Н	Peak	46.05	-26.36	19.69	40.00	-20.31
184.2	3 Н	Peak	49.18	-30.00	19.18	43.50	-24.32
480.0	8 H	Peak	45.31	-24.94	20.37	46.00	-25.63

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 May. 01, 2009

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

65 % Humidity

	Peak	\mathbf{AV}		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	AV	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4804.0	43.14		-6.01	37.13		74.00	54.00	-16.87	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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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode TX CH Low Test Date May. 01, 2009

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

65 % Humidity

	Peak	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)	
4804.0	42.83		-6.01	36.82		74.00	54.00	-17.18	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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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode TX CH Mid Test Date May. 01, 2009

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

Humidity 65 %

	Peak	AV		Actu	al FS	Peak	AV		
Freq.	Reading	Reading	Ant./CL	Peak	AV	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4882.0	42.59		-5.93	36.66		74.00	54.00	-17.34	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		
12205.0 14646.0 17087.0 19528.0 21969.0						74.00 74.00 74.00 74.00 74.00	54.00 54.00 54.00 54.00 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 (above 1GHz)

Operation Mode TX CH Mid Test Date May. 01, 2009

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

Humidity 65 %

	Peak	AV		Actu	al FS	Peak	AV		
Freq.	Reading	Reading	Ant./CL	Peak	AV	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4882.0	42.73		-5.93	36.80		74.00	54.00	-17.20	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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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode TX CH High Test Date May. 01, 2009

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

65 % Humidity

	Peak	AV		Actu	al FS	Peak	AV		
Freq.	Reading	Reading	Ant./CL	Peak	AV	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4960.0	42.09		-5.87	36.22		74.00	54.00	-17.78	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
- 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 High Test Date May. 01, 2009

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

65 % Humidity

	Peak	AV		Actu	al FS	Peak	\mathbf{AV}		
Freq.	Reading	Reading	Ant./CL	Peak	AV	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4960.0	42.27		-5.87	36.40		74.00	54.00	-17.60	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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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 2/3*20dB bandwidth of the hopping channel, whichever is greater.

10.2. Measurement Equipment Used:

Refer to section 6.2 for details.

10.3. Test Set-up:

Refer to section 6.3 for details.

10.4. 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 = middle of hopping channel.
- 4. Set the spectrum analyzer as RBW, VBW=3KHz, Adjust Span to 3.0 MHz, Sweep = auto.
- 5. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

10.5. Measurement Result:

Channel separation (MHz)	Limit	Result
1	>=25KHz or 2/3 times 20dB bandwidth	PASS

Note: Refer to next page for plots.

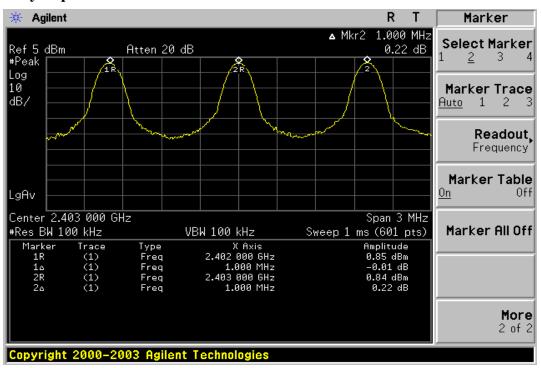
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Frequency Separation Test Data



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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 Equipment Used:

Refer to section 6.2 for details.

11.3. Test Set-up:

Refer to section 6.3 for details.

11.4. 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 spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
- 4. Set the spectrum analyzer as RBW, VBW=430KHz / 1.3MHz,
- 5. Max hold, view and count how many channel in the band.

11.5. Measurement Result:

Note: Refer to next page for plots.

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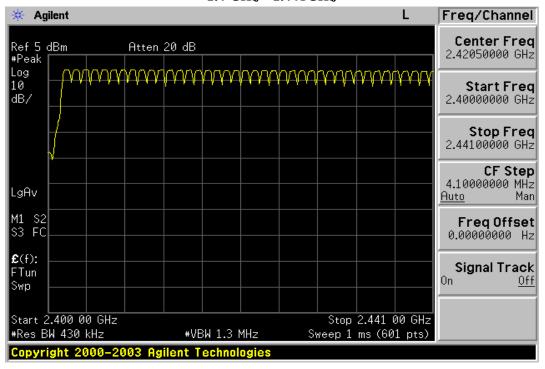


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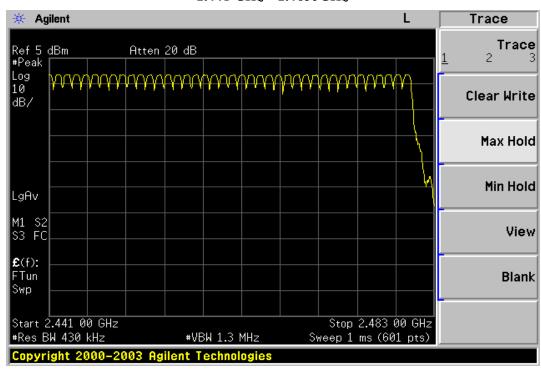
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Channel Number

2.4 GHz - 2.441GHz



2.441 GHz - 2.4835GHz



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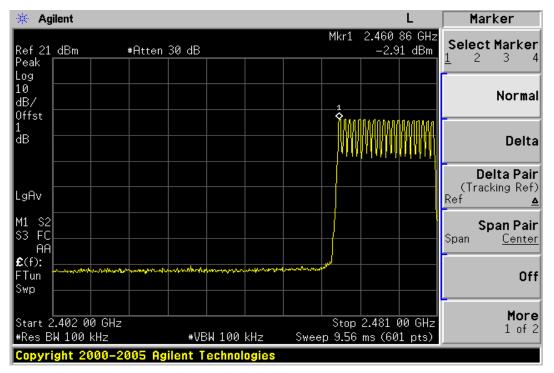
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Channel Number: AFH Mode



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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 Equipment Used:

Refer to section 6.2 for details.

12.3. Test Set-up:

Refer to section 6.3 for details.

12.4. 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=1MHz/3MHz, Span = 0Hz, Adjust Sweep = auto.
- 5. Repeat above procedures until all frequency measured were complete.



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12.5. Measurement Result

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

CH Low: DH1 time slot = 0.388 (ms) * (1600/(2*79)) * 31.6 = 124.19 (ms)

DH3 time slot = 1.634 (ms) * (1600/(4*79)) * 31.6 = 261.33 (ms)

DH5 time slot = 2.884 (ms) * (1600/(6*79)) * 31.6 = 307.47 (ms)

CH Mid: DH1 time slot = 0.388 (ms) * (1600/(2*79)) * 31.6 = 124.19 (ms)

DH3 time slot = 1.642 (ms) * (1600/(4*79)) * 31.6 = 262.28 (ms)

DH5 time slot = 2.884 (ms) * (1600/(6*79)) * 31.6 = 307.47 (ms)

CH High: DH1 time slot = 0.388 (ms) * (1600/(2*79)) * 31.6 = 124.19 (ms)

DH3 time slot = 1.642 (ms) * (1600/(4*79)) * 31.6 = 262.28 (ms)

DH5 time slot = 2.884 (ms) * (1600/(6*79)) * 31.6 = 307.47 (ms)

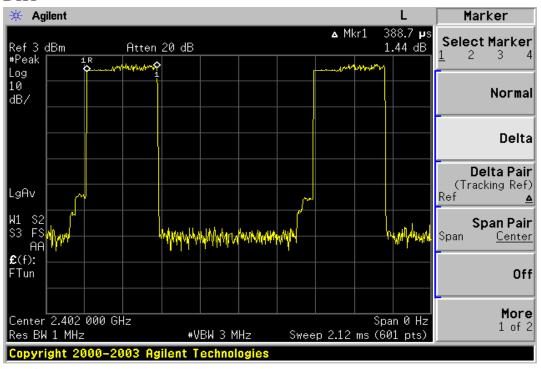
Note: Refer to next page for plots.



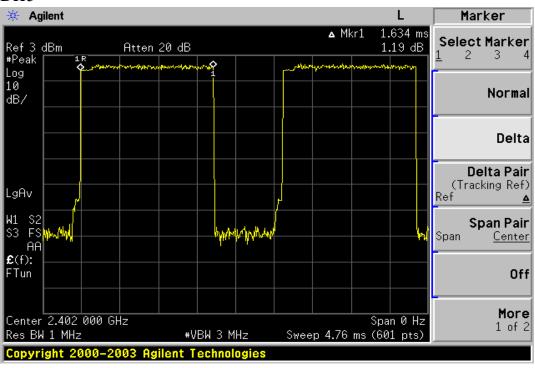
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CH-Low DH1



DH3



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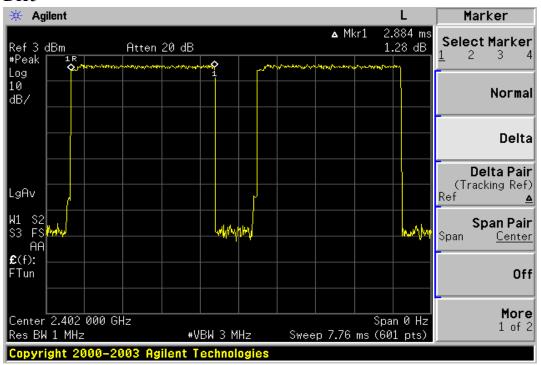
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DH5



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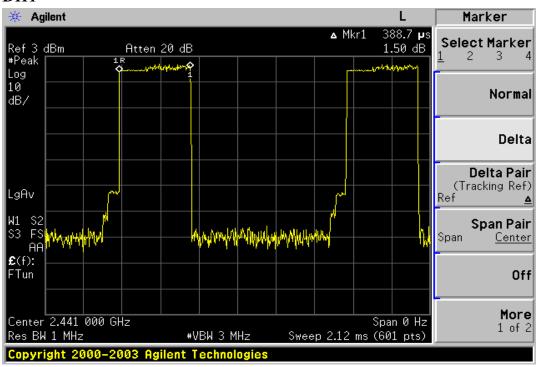
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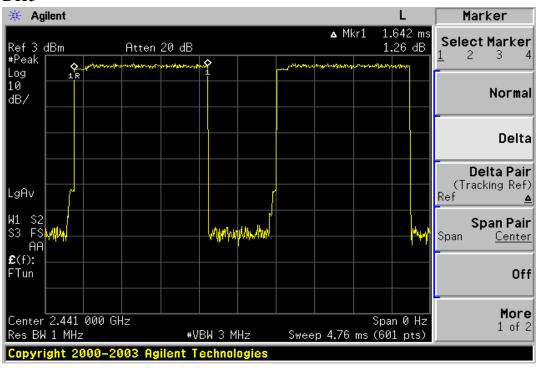
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CH-Mid DH1



DH3



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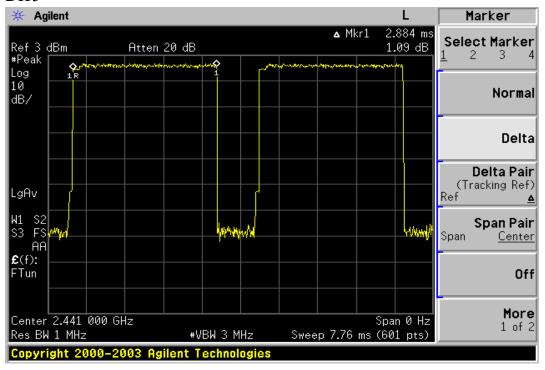
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DH5

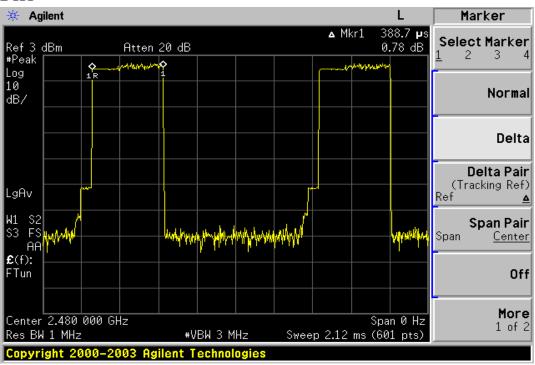




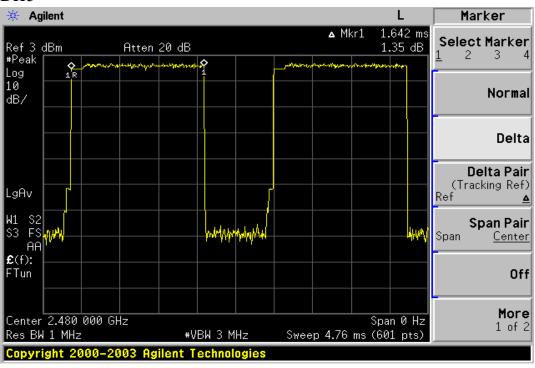
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CH-High DH1



DH3



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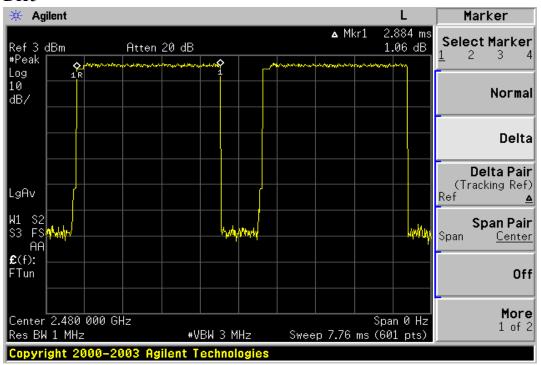
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DH5



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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 Equipment Used:

Refer to section 6.2 for details.

13.3. Test Set-up:

Refer to section 6.3 for details.

13.4. 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 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.

13.5. Measurement Result (EDR Mode)

СН	RF Power Density Reading (dBm)	Cable loss (dB)	RF Power Density Level (dBm)	Maximum Limit (dBm)
Low	-15.27	0.00	-15.27	8
Mid	-15.26	0.00	-15.26	8
High	-16.16	0.00	-16.16	8

NOTE: offset: 1dB

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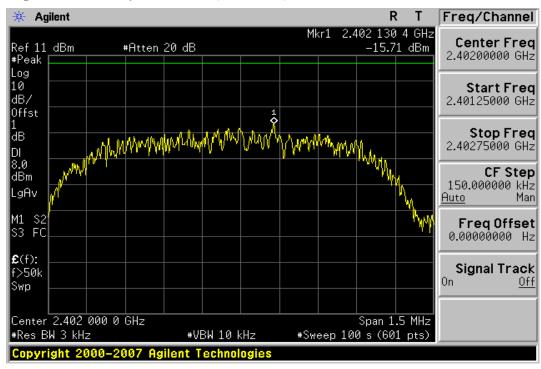
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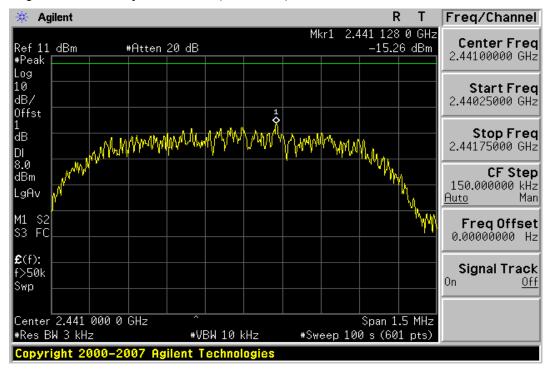
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Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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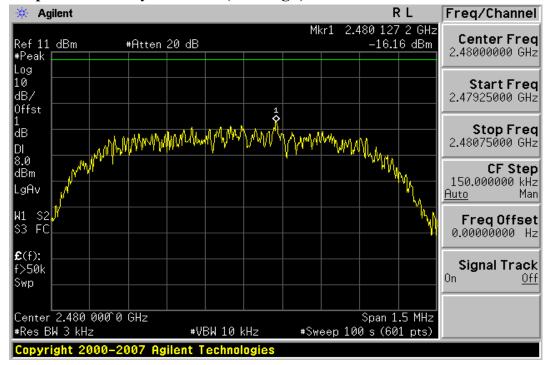
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Power Spectral Density Test Plot (CH-High)



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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 -1dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

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