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CERTIFICATION OF COMPLIANCE

Jaty electronics co., ltd

Jaty Bldg 8F, 1959-5 Bongchum 11-Dong, Kwanak-ku,
 Seoul, Korea

Dates of Tests: July 03 ~ 11, 2008
 Test Report S/N: DR50110807W
 Test Site : DIGITAL EMC CO., LTD.

FCC ID

SCKJBHW0706

APPLICANT

Jaty Electronics Co., Ltd

FCC Equipment Class	: Part 15 Spread Spectrum Transmitter(DSS)
Device name	: Portable Bluetooth Handsfree Kit
Manufacturer	: Jaty Electronics Co., Ltd
FCC ID	: SCKJBHW0706
Model name	: JBHW-0706
Test Device Serial number	: Identical prototype
FCC Rule Part(s)	: FCC Part 15.247 Subpart C ANSI C63.4-2003
Frequency Range	: 2402 ~ 2480 MHz
Max. Output power	: 3.98 dBm Conducted
Data of issue	: July 18, 2008

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

NVLAP[®]
 NVLAP LAB CODE 200559-0

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1. General information

This report contains the result of tests performed by:

DIGITAL EMC CO., LTD.

Address : 683-3, Yubang-Dong, Yongin-Si, Kyunggi-Do, Korea. 449-080

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Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the “General requirements for the competent of calibration and testing laboratory”.
This laboratory is accredited by NVLAP for NVLAP Lab. Code : 200559-0.

Test operator: engineer



July 18, 2008

Won -Jung LEE

Data

Name

Signature

Report Reviewed By: manager



July 18, 2008

Harvey Sung

Data

Name

Signature

Ordering party:

Company name	:	Jaty Electronics Co., Ltd
Address	:	Jaty Bldg 8F, 1959-5 Bongchum 11-dong, Kwanak-ku
City/town	:	Seoul
Country	:	Korea
Date of order	:	June 23, 2008

2. Information about test item

SCKJBHW0706

2.1 Equipment information

Equipment model no.	JBHW-0706
Equipment serial no.	Identical prototype
Type of equipment	Portable Bluetooth Handsfree Kit
Frequency band	2402 ~ 2480 MHz
Type of Modulation	GFSK
Spread Spectrum	Frequency Hopping
Channel Spacing	1.0 MHz
Type of antenna	Chip Antenna

Note 1 : This device does not have EDR function.

Note 2 : The USB port of this device is only for charging the internal battery from the ITE device.

2.2 Tested frequency

Frequency	TX	RX
Low frequency	2402MHz	2402MHz
Middle frequency	2441MHz	2441MHz
High frequency	2480MHz	2480MHz

2.3 Tested environment

Temperature	: 15 ~ 35 (°C)
Relative humidity content	: 20 ~ 75 %
Air pressure	: 86 ~ 103 kPa
Details of power supply	: 3.7 V DC

2.4 Ancillary Equipment

Equipment	Model No.	Serial No.	Manufacturer
Notebook	M100	57271209K	TOSHIBA
Mouse	Moc5uo	HOFOOJYN	Dell

2.5 EMI Suppression Device(s)/Modifications

EMI suppression device(s) added and/or modifications made during testing

-> None

3. Test Report

3.1 Summary of tests

FCC Part Section(s)	Parameter	Limit (Using in 2400 ~ 2483.5MHz)	Test Condition	Status (note 1)	
I. Test Items					
15.247(a)	Carrier Frequency Separation	>= 20dB BW or >= Two-Thirds of the 20dB BW	Conducted	C	
	Number of Hopping Frequencies	>= 15 hops		C	
	20 dB Bandwidth	None		C	
	Dwell Time	=< 0.4 seconds		C	
15.247(b)	Transmitter Output Power	=< 1Watt , if CHs >= 75 Others =< 0.125W	Conducted	C	
15.247(c)	Band-edge /Conducted	The radiated emission to any 100 kHz of outband shall be at least 20dB below the highest inband spectral density.		C	
	Conducted Spurious Emissions			C	
15.205 15.209	Radiated Emissions	FCC 15.209 Limits	Radiated	C	
15.207	AC Conducted Emissions	EN 55022	AC Line Conducted	C	
Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable					

The sample was tested according to the following specification:

FCC Parts 15.247; ANSI C-63.4-2003, DA00-705

3.2 Transmitter requirements

3.2.1 Carrier Frequency Separation

Procedure:

The carrier frequency separation was measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function enabled.

After the trace being stable, the reading value between the peaks of the adjacent channels using the marker-delta function was recorded as the measurement results.

The spectrum analyzer is set to:

Span = 3 MHz (wide enough to capture the peaks of two adjacent channels)

RBW = 30 kHz Sweep = auto

VBW = 30 kHz Detector function = peak

Trace = max hold

Measurement Data:

Frequency of marker #1 (MHz)	Frequency of marker #2 (MHz)	Test Results	
		Carrier Frequency Separation (MHz)	Result
2440.991	2441.999	1.008	Comply

- See next pages for actual measured spectrum plots.

Minimum Standard:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW

Measurement Setup

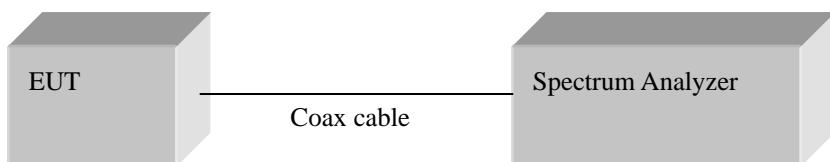
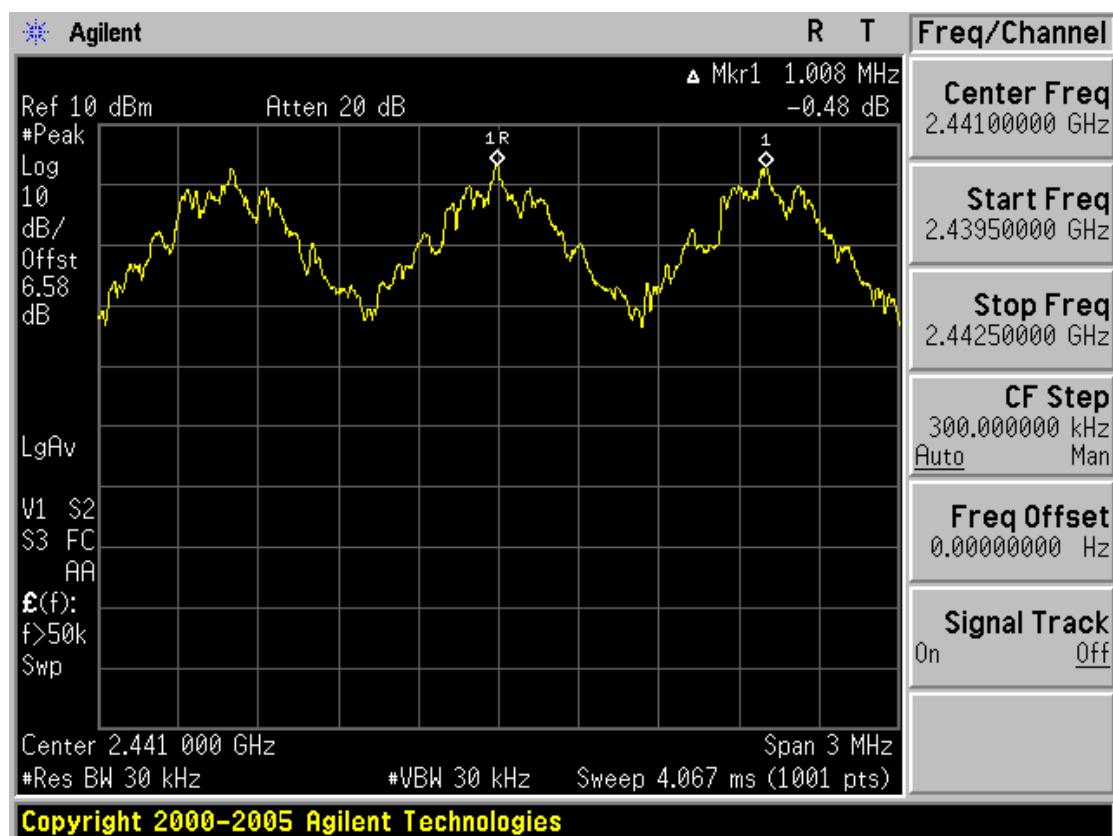


Figure 1: Measurement setup for the carrier frequency separation

Carrier Frequency Separation



3.2.2 Number of Hopping Frequencies

Procedure:

The number of hopping frequencies was measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function enabled.

To get higher resolution, four frequency ranges within the 2400 ~ 2483.5 MHz FH band were examined.

The spectrum analyzer is set to:

Frequency range 1: Start = 2389.5MHz, Stop = 2414.5 MHz

2: Start = 2414.5MHz, Stop = 2439.5 MHz

3: Start = 2439.5MHz, Stop = 2464.5 MHz

4: Start = 2464.5MHz, Stop = 2489.5 MHz

RBW = 300 kHz (1% of the span or more) Sweep = auto

VBW = 300 kHz (VBW \geq RBW) Detector function = peak

Trace = max hold Span = 25MHz

Measurement Data: Comply

Total number of Hopping Channels	79
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- See next pages for actual measured spectrum plots.

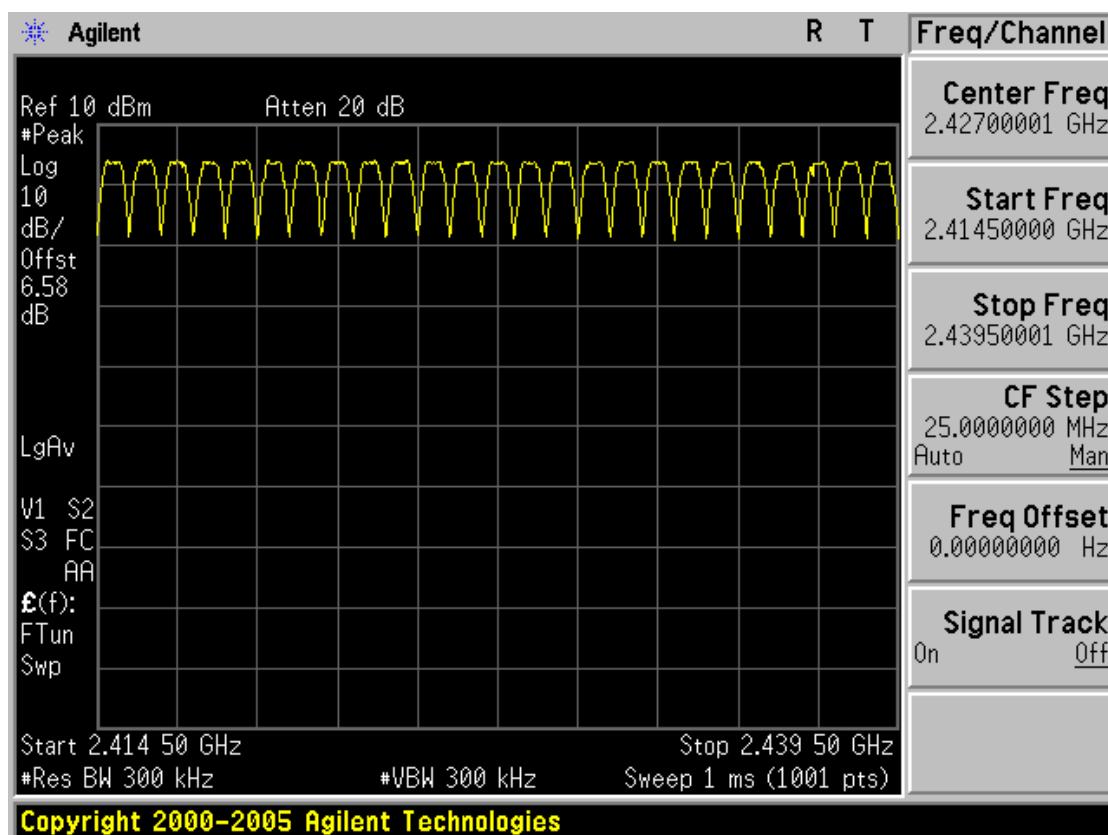
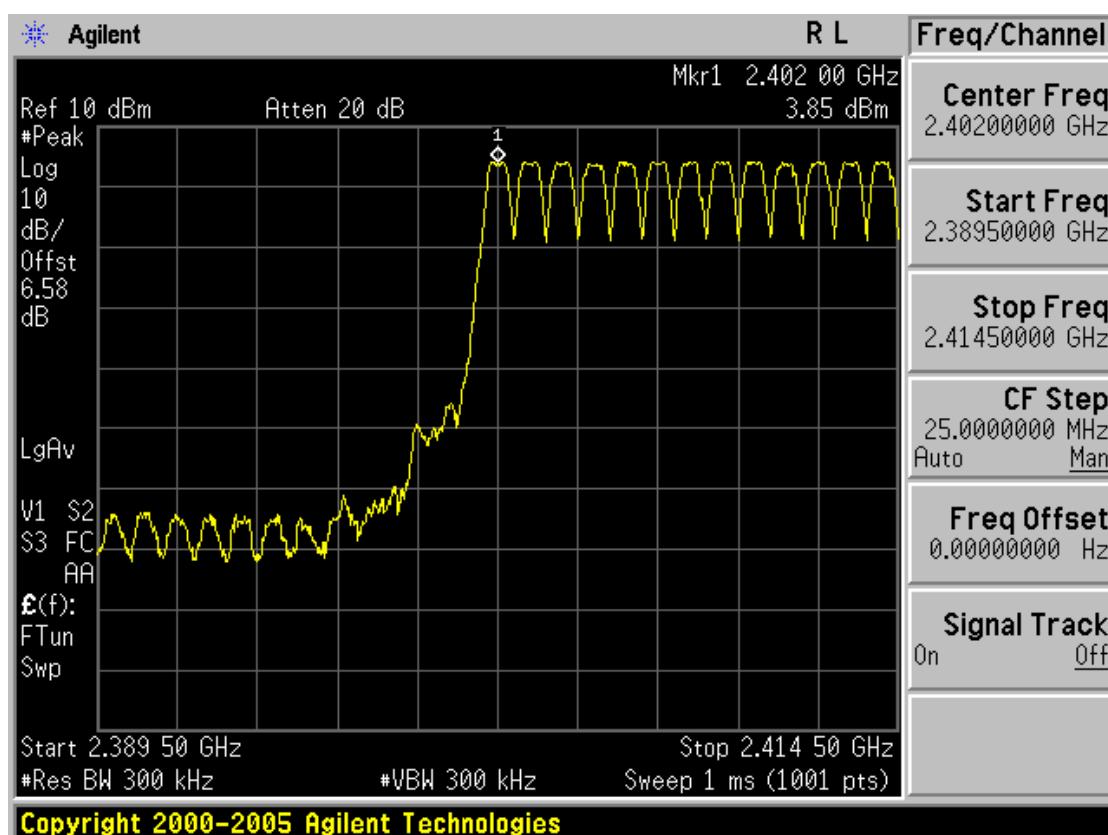
Minimum Standard:

At least 15 hopes

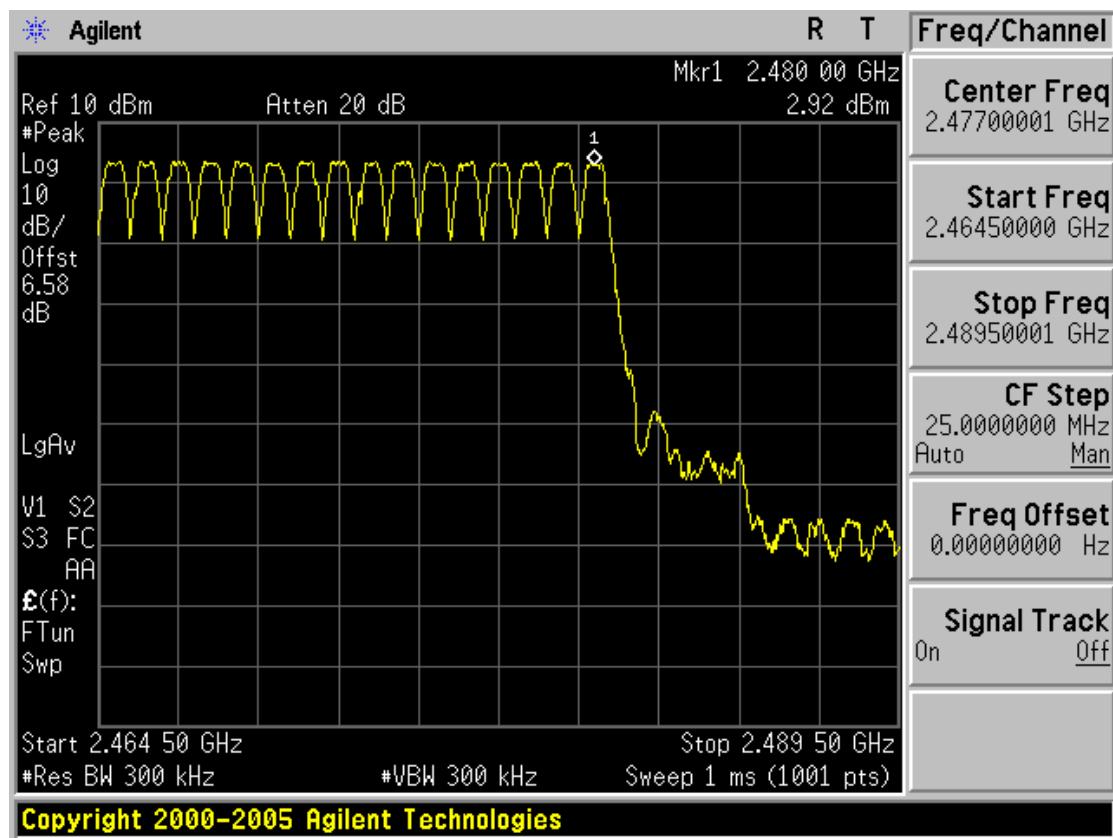
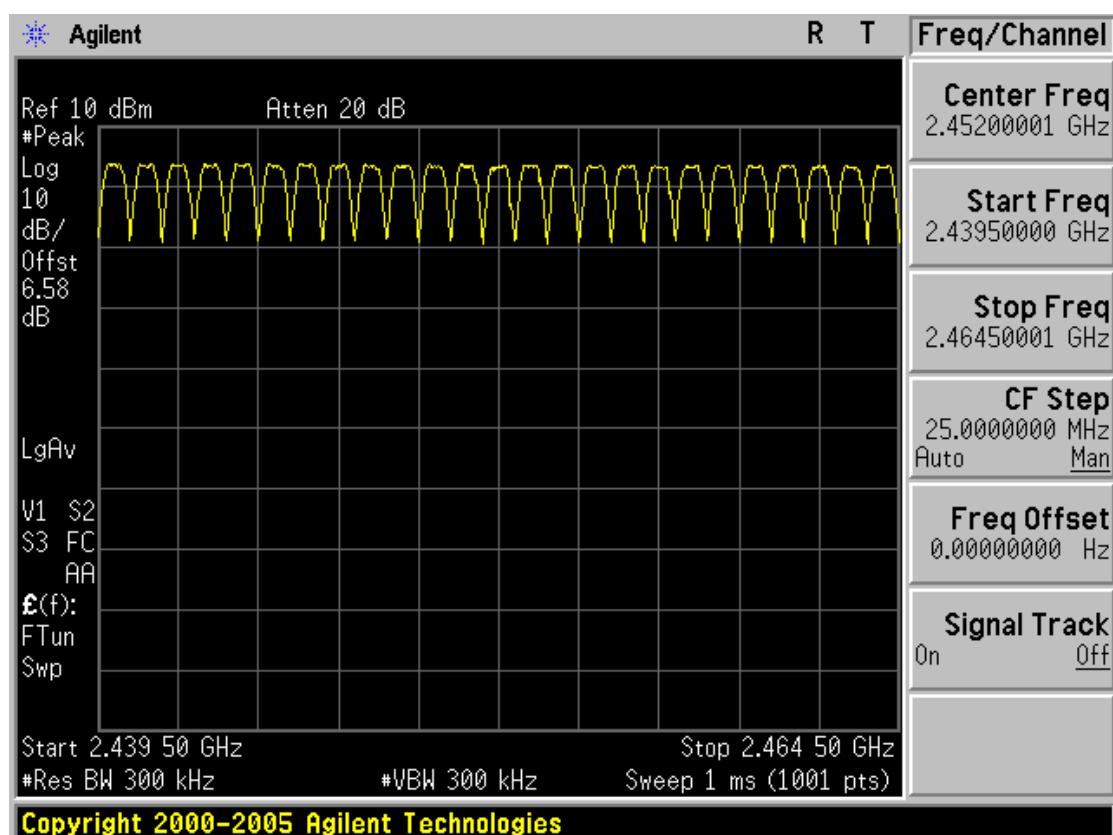
Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

Number of Hopping Frequencies



Number of Hopping Frequencies



3.2.3 20 dB Bandwidth

Procedure:

The bandwidth at 20 dB below the highest inband spectral density was measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function disabled at the highest, middle and the lowest available channels..

After the trace being stable, Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

Span = 5 MHz (approximately 2 or 3 times of the 20 dB bandwidth)

RBW = 10 kHz (1% of the 20dB bandwidth or more) Sweep = auto

VBW = 10 kHz (VBW \geq RBW) Detector function = peak

Trace = max hold

Measurement Data:

Frequency (MHz)	Channel No.	Test Results	
		Measured Bandwidth (MHz)	Result
2402	1	0.930	Comply
2441	40	0.940	Comply
2480	79	0.940	Comply

- See next pages for actual measured spectrum plots.

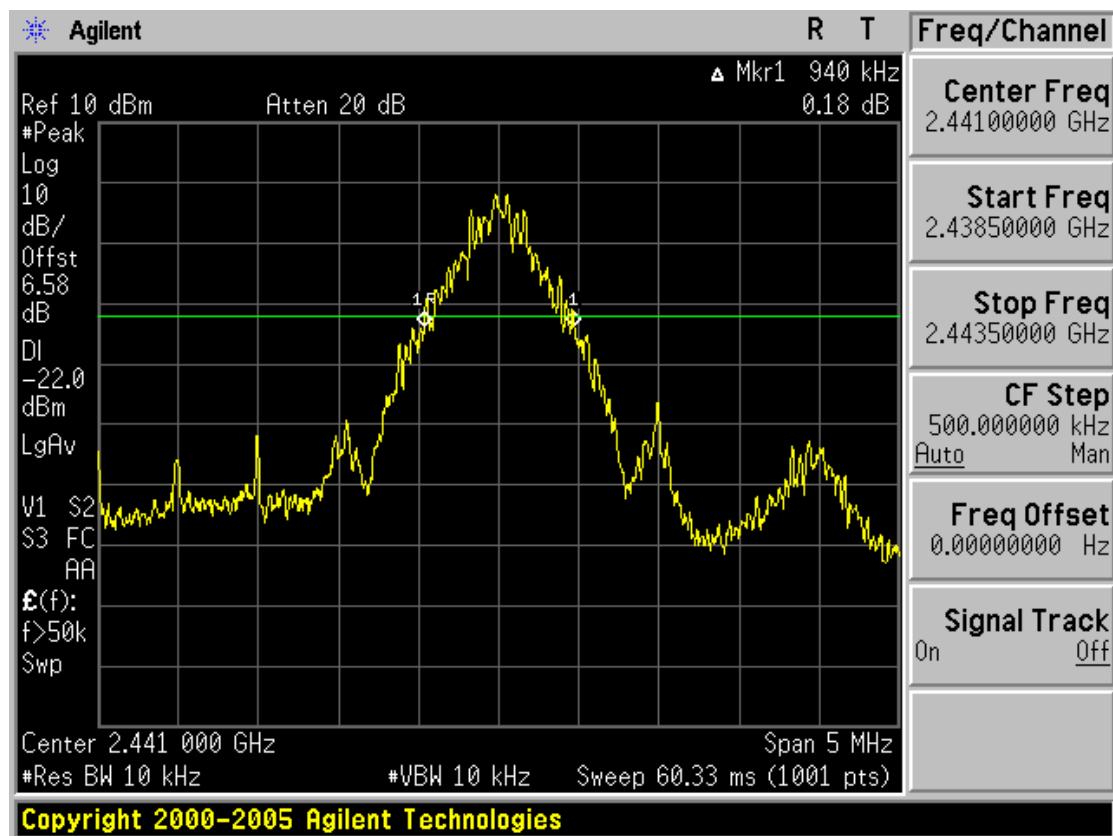
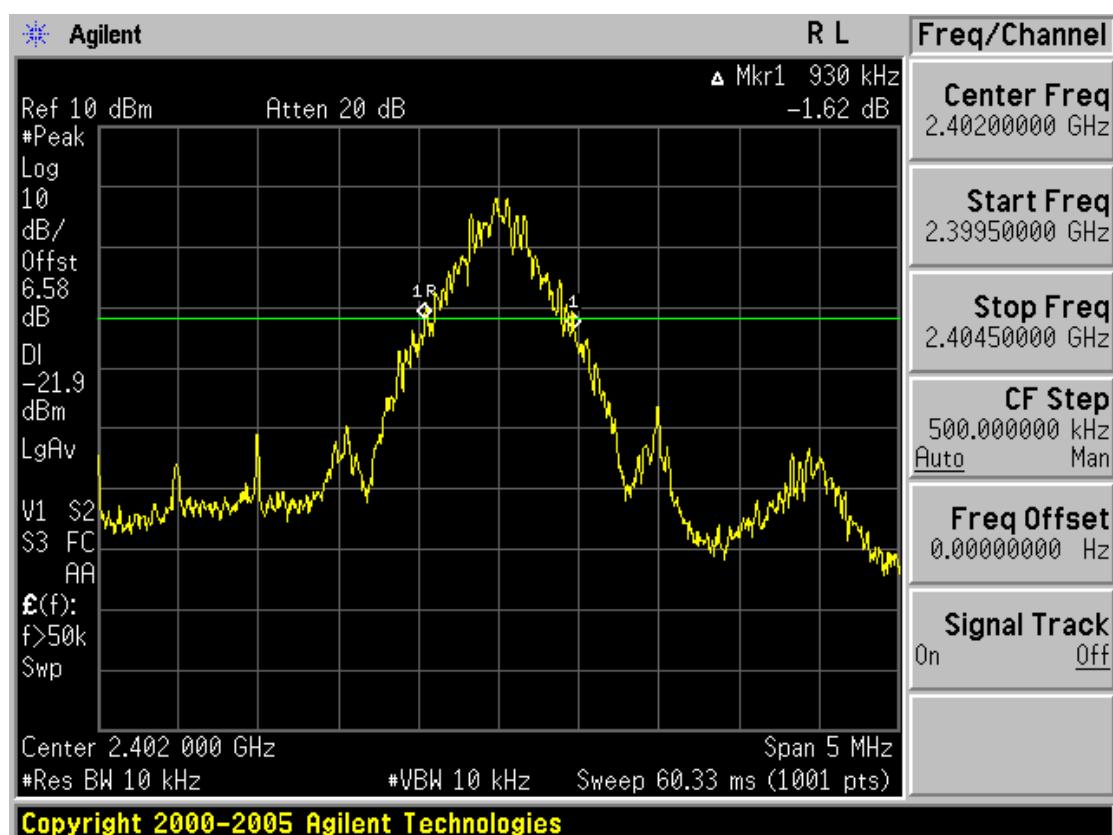
Minimum Standard:

None

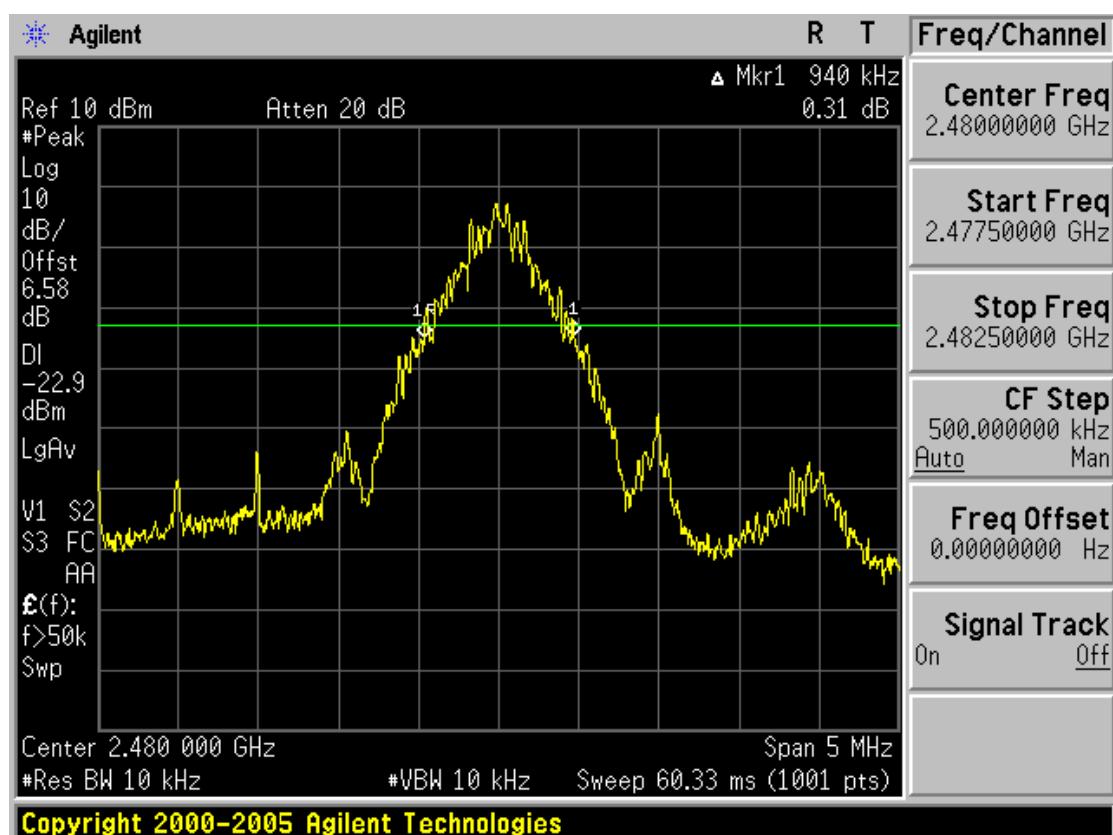
Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

20 dB Bandwidth



20 dB Bandwidth



3.2.4 Time of Occupancy (Dwell Time)

Procedure:

The dwell time was measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function enabled.

The spectrum analyzer is set to:

Center frequency = 2441 MHz

Span = zero

RBW = 1 MHz

VBW = 1 MHz (VBW \geq RBW)

Trace = max hold

Detector function = peak

Measurement Data: See next pages for actual measured spectrum plots.

Packet Type	Burst On Time (ms)	Period (ms)	Number of hopping Channels	DWELL TIME (s)	Result
DH 1	0.399	1.251	79	0.128	Comply
DH 3	1.656	2.502	79	0.265	Comply
DH 5	2.890	3.750	79	0.308	Comply

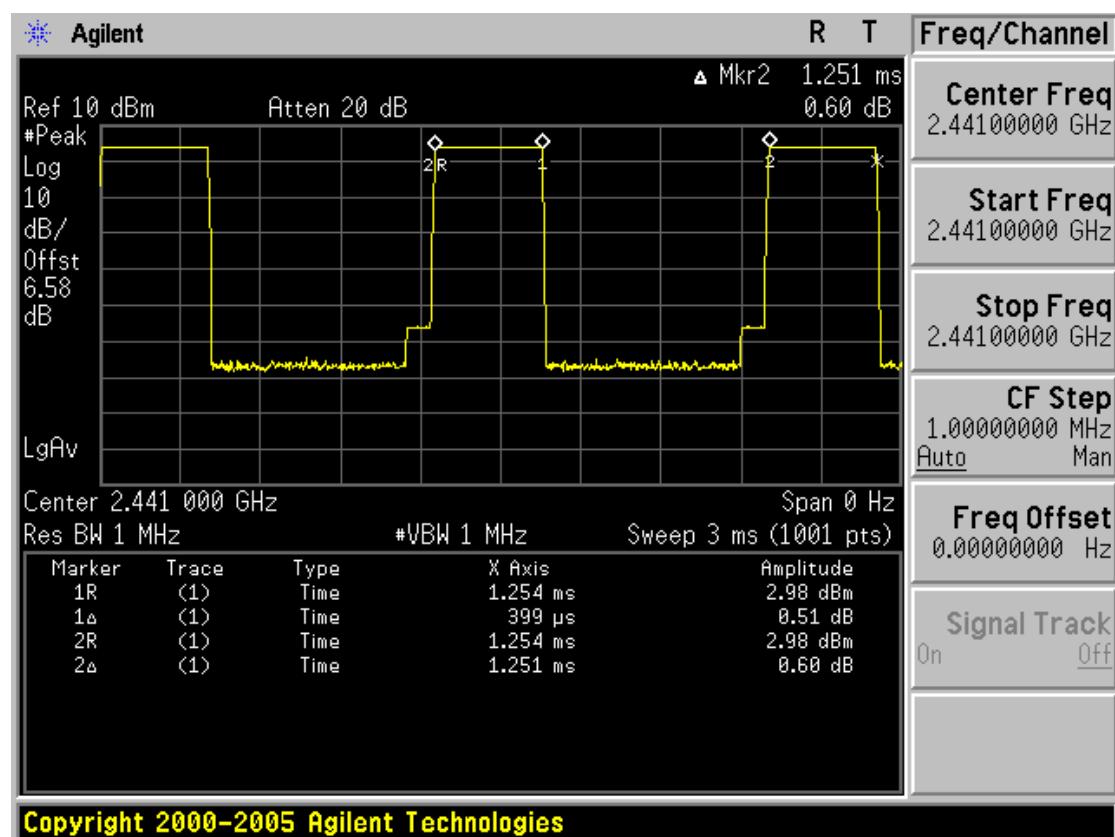
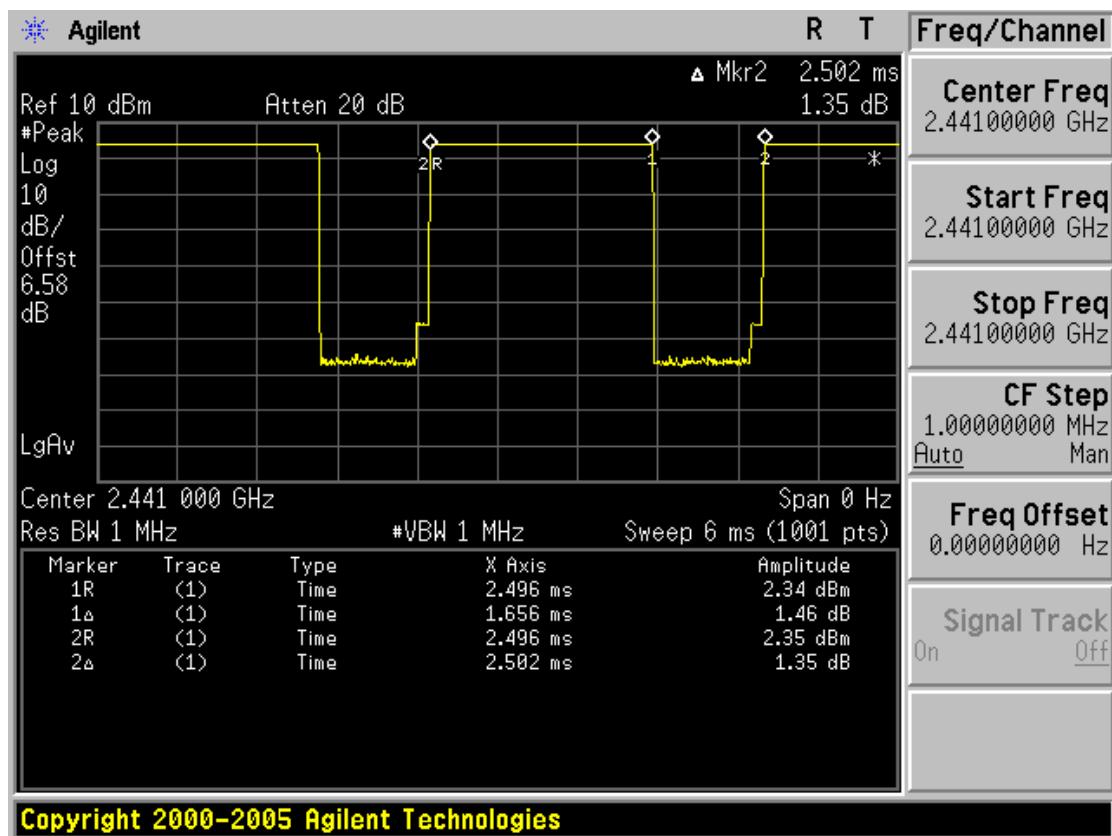
Note : Each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event. DWELL TIME=(0.4 x Number of hopping Channels) x Burst On time / (period x Number of hopping Channels)

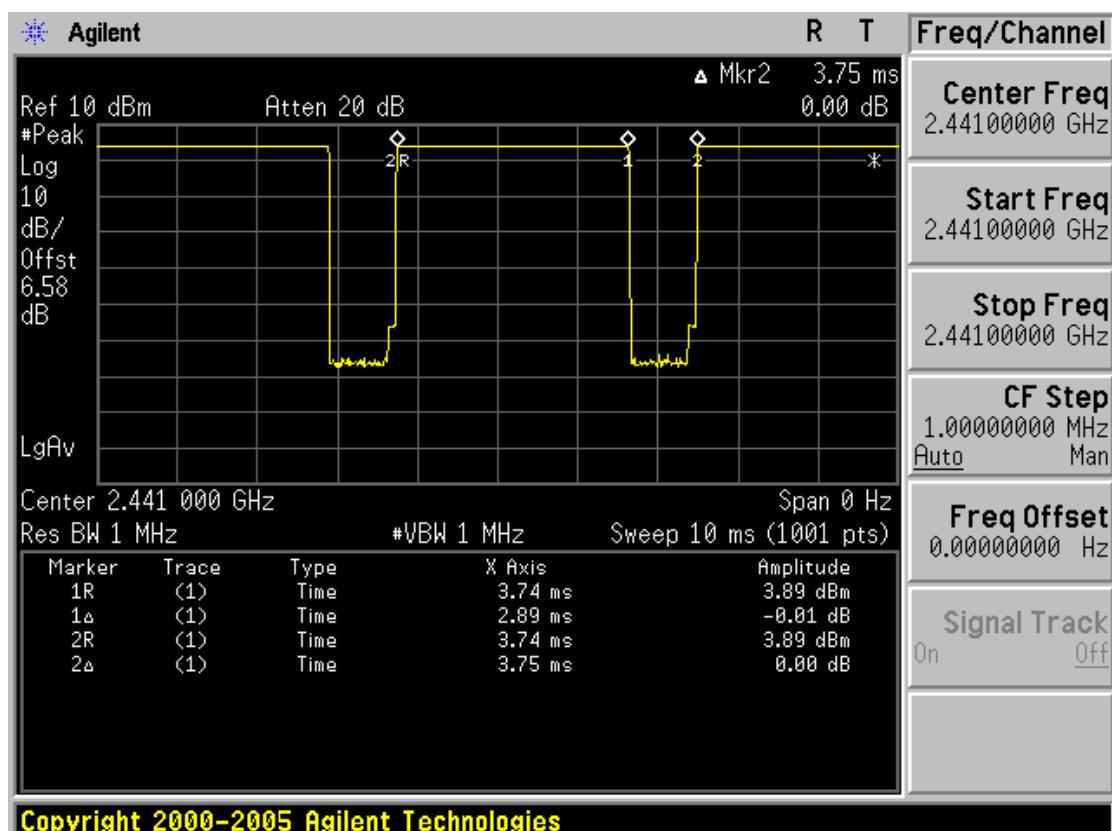
Minimum Standard:

No greater than 0.4 seconds

Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

Time of Occupancy for Packet Type DH 1Time of Occupancy for Packet Type DH 3

Time of Occupancy for Packet Type DH 5

3.2.5 Peak Output Power

Procedure:

The peak output power was measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function disabled at the highest, middle and the lowest available channels..

After the trace being stable, Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

Span = 5 MHz (approximately 5 times of the 20 dB bandwidth)

RBW = 1 MHz (greater than the 20dB bandwidth of the emission being measured)

VBW = 1 MHz (VBW \geq RBW) Detector function = peak

Trace = max hold Sweep = auto

Measurement Data:

Frequency (MHz)	Ch.	Test Results		
		dBm	mW	Result
2402	1	3.98	2.500	Comply
2441	40	3.93	2.472	Comply
2480	79	3.03	2.009	Comply

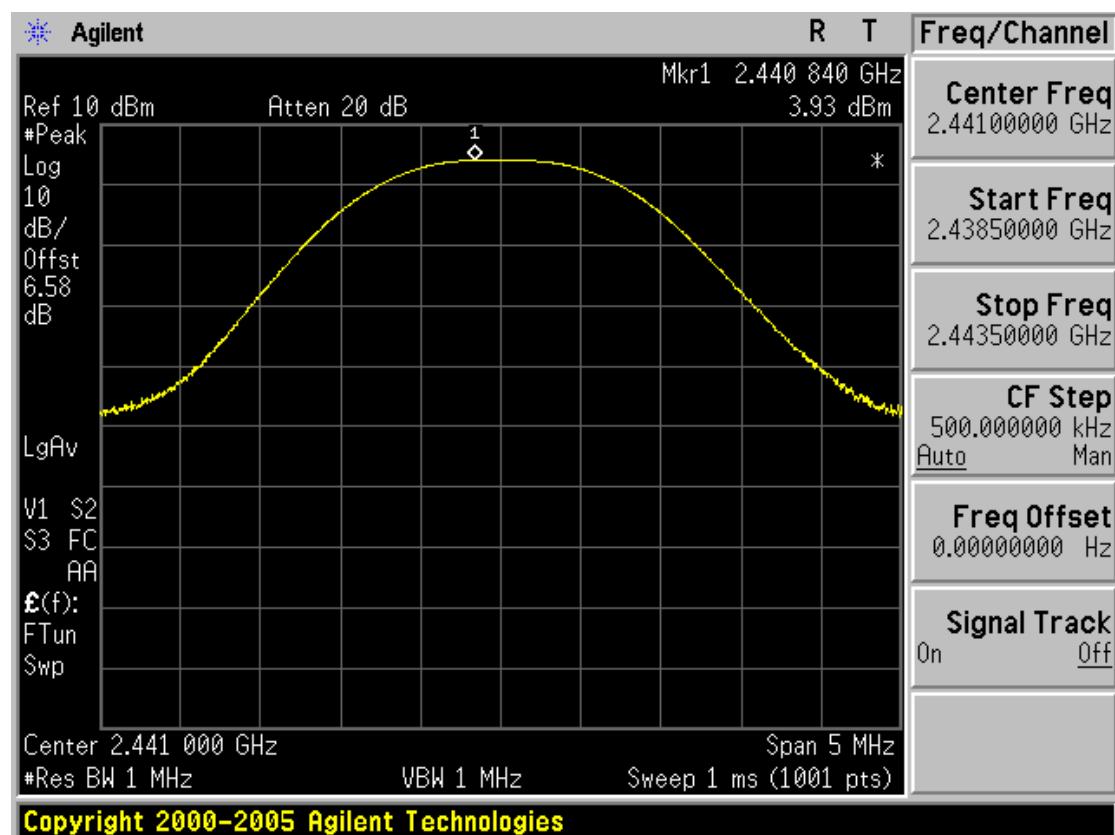
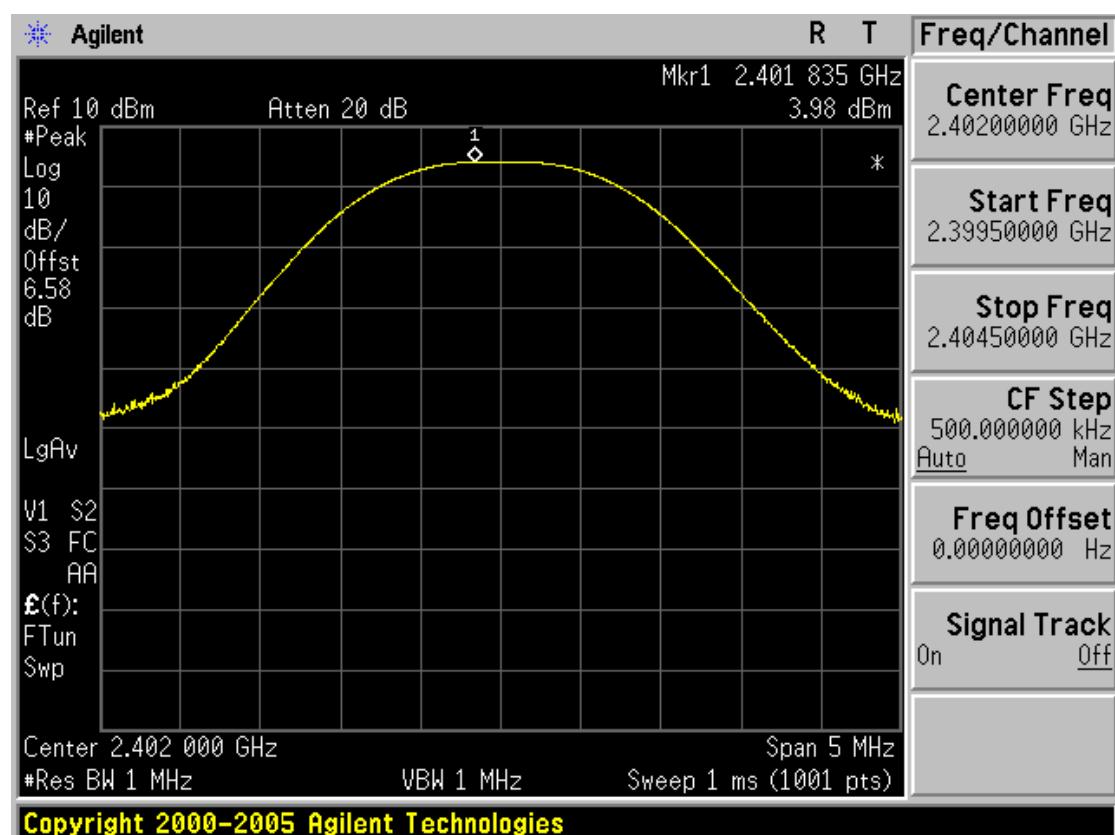
- See next pages for actual measured spectrum plots.

Minimum Standard:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 Watt . For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 Watts
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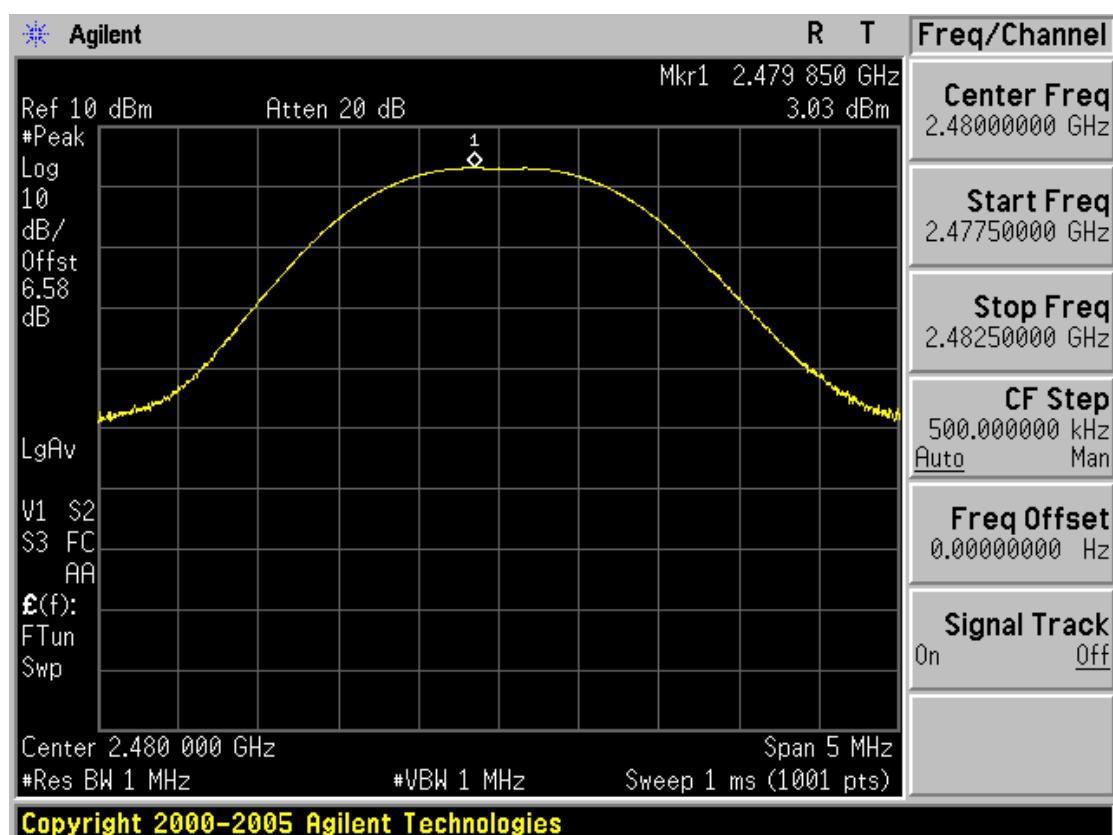
Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

Peak Output Power



Peak Output Power



3.2.6 Conducted Spurious Emissions

Procedure:

The bandwidth at 20dB down from the highest inband spectral density is measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function disabled at the highest, middle and the lowest available channels.

After the trace being stable, Use the marker-to-peak function to measure 20 dB down both sides of the intentional emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

Frequency Range = 30 MHz ~ 10th harmonic.

Sweep = auto

Detector function = peak

Trace = $\max h$

Measurement Data: Comply

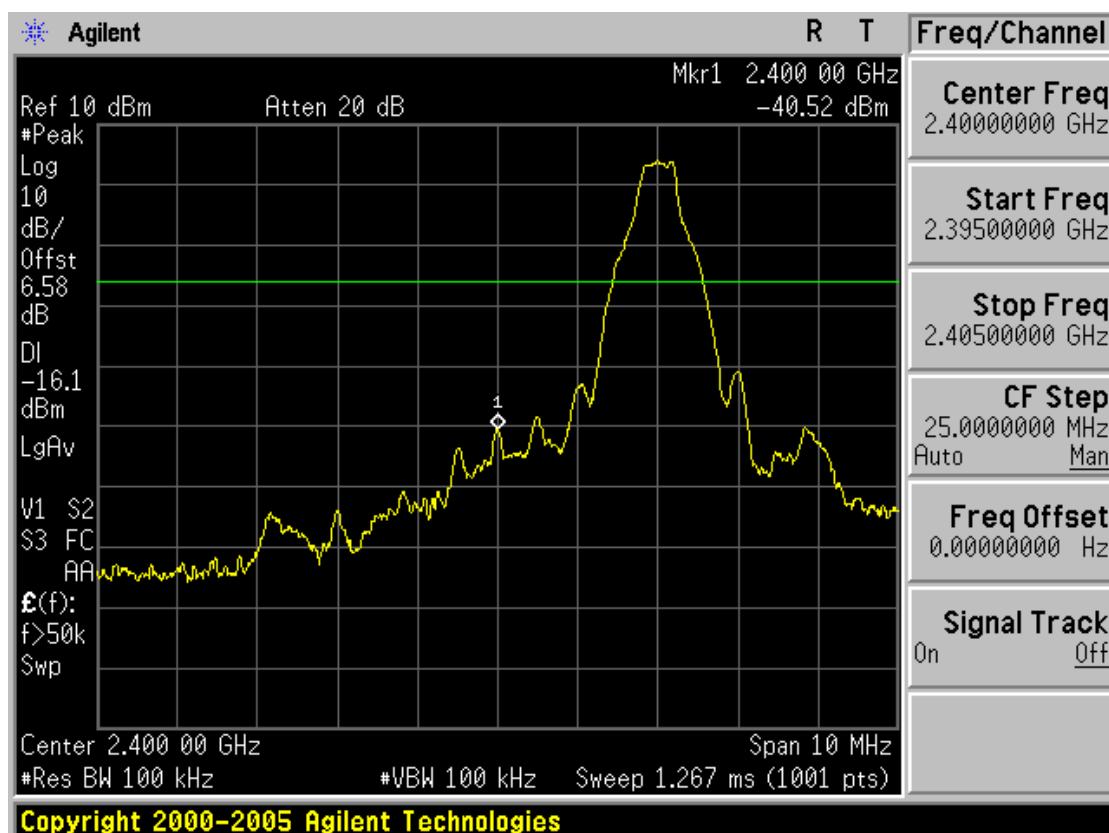
- See next pages for actual measured spectrum plots.

Minimum Standard:	> 20 dBc
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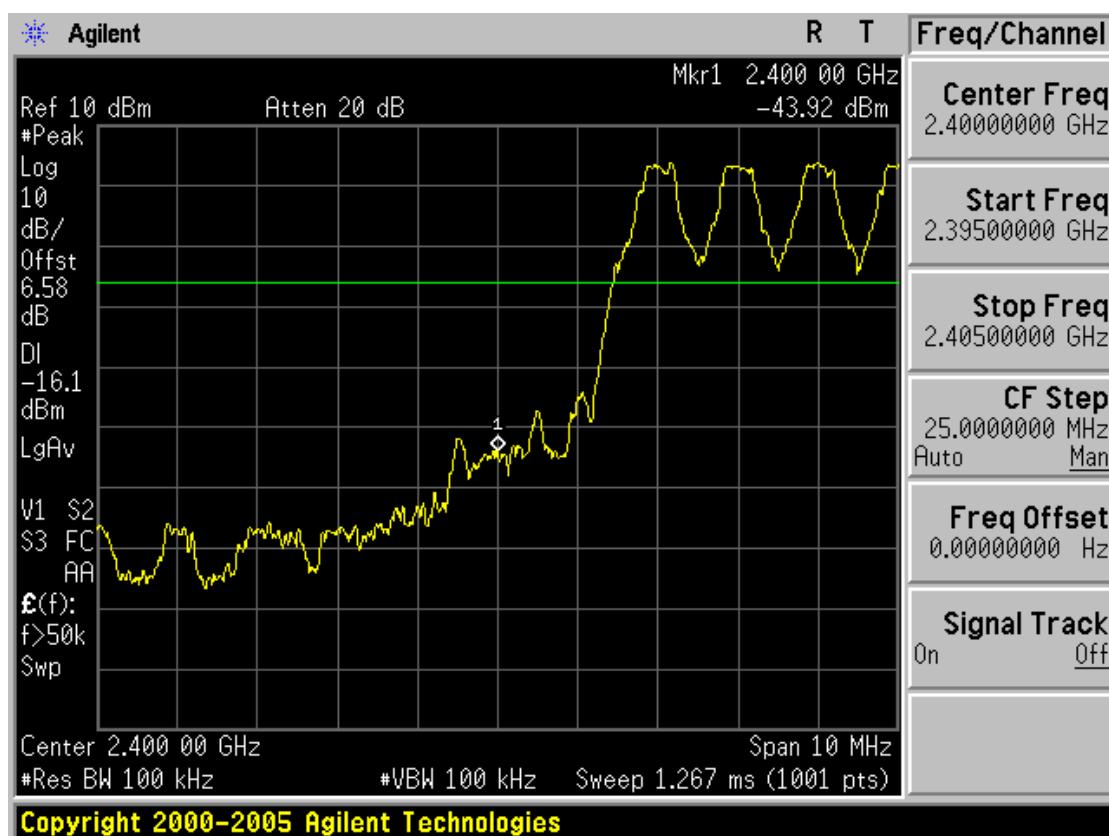
Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

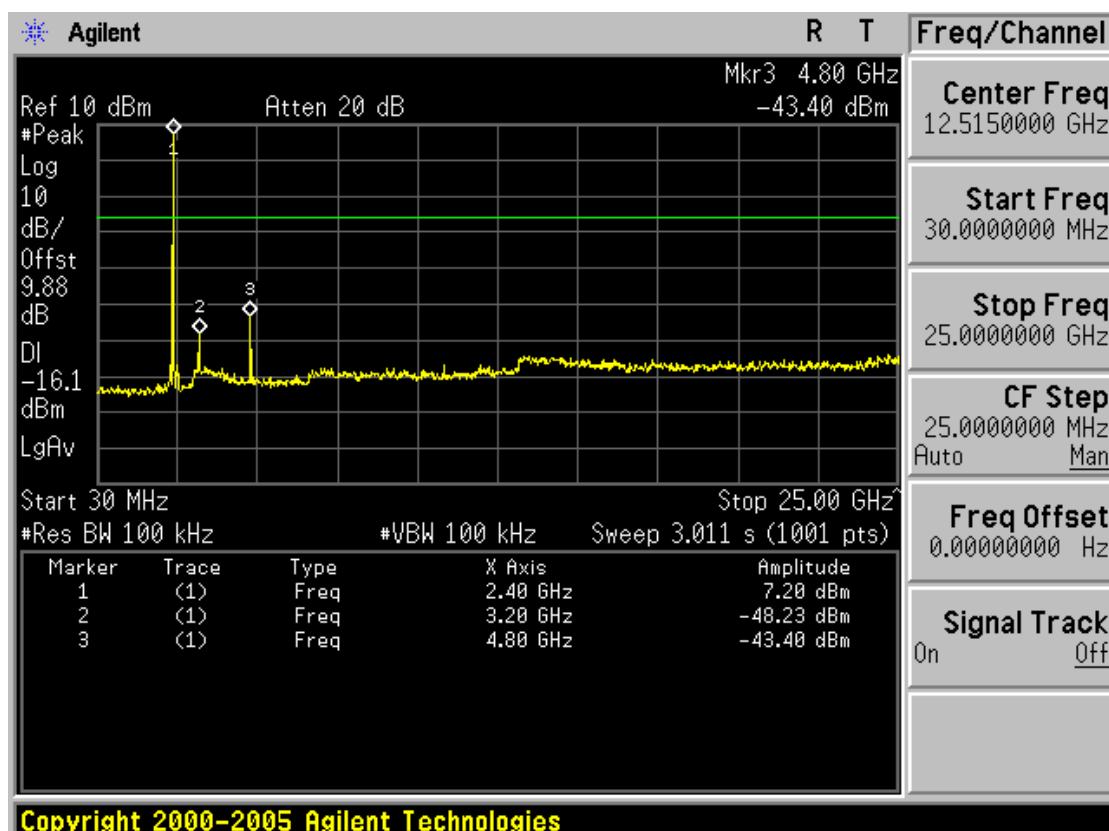
Low band with hopping disabled



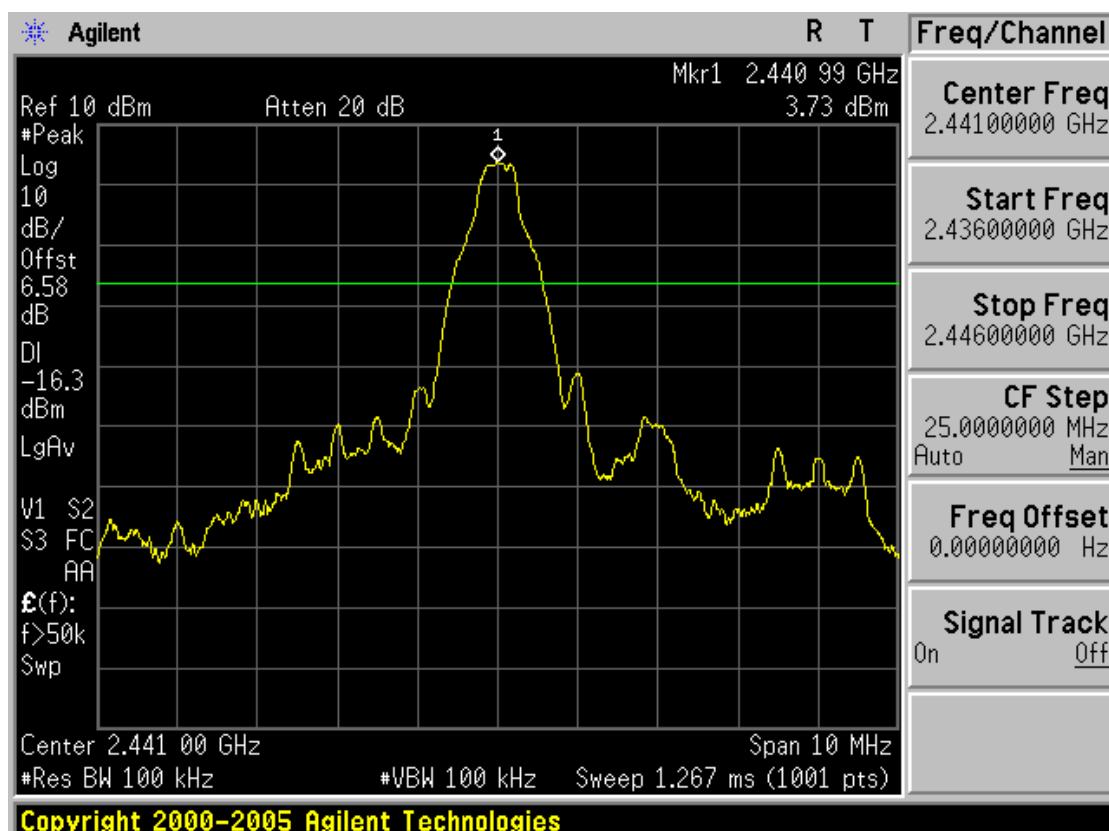
Low band with hopping enabled



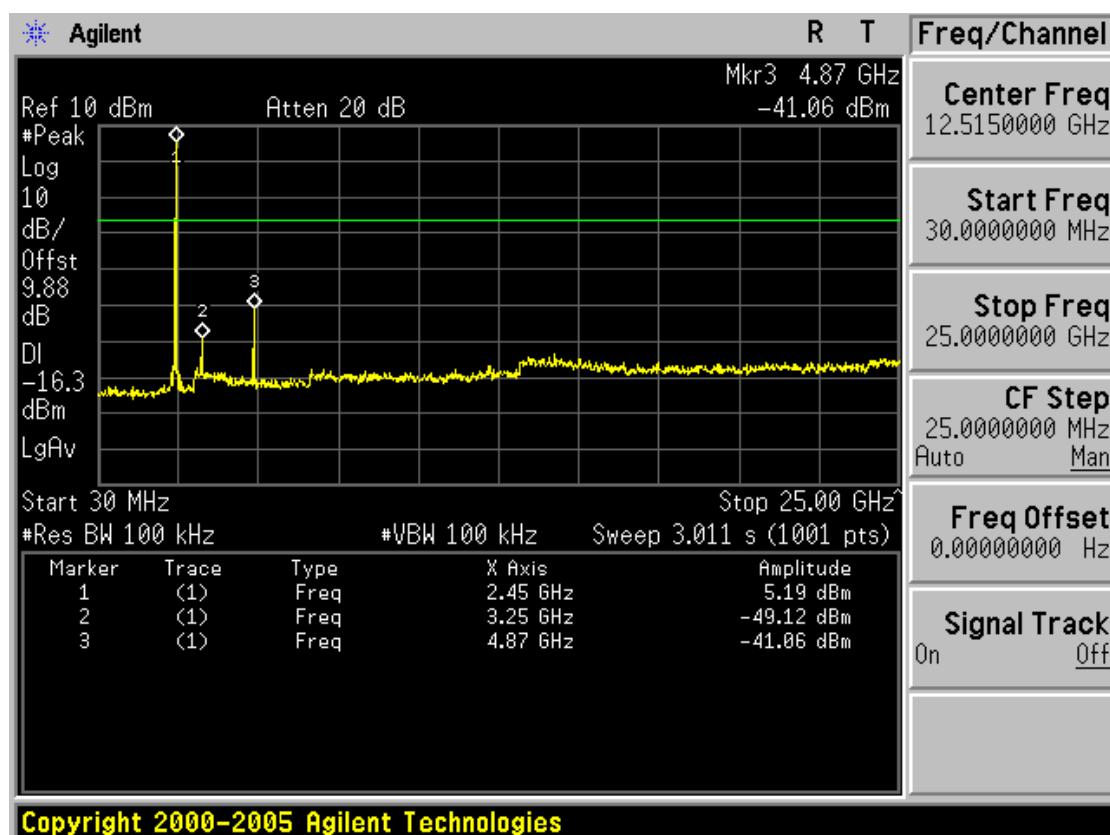
Low channel spurious



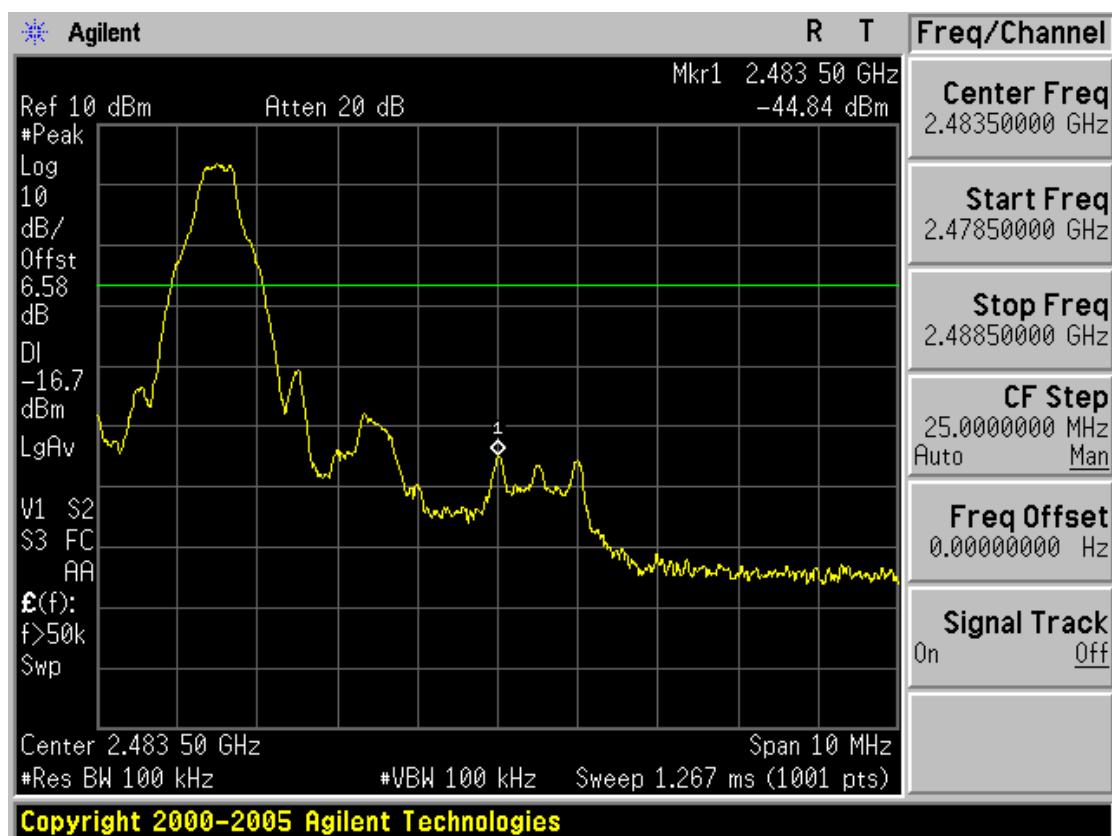
Mid channel ref



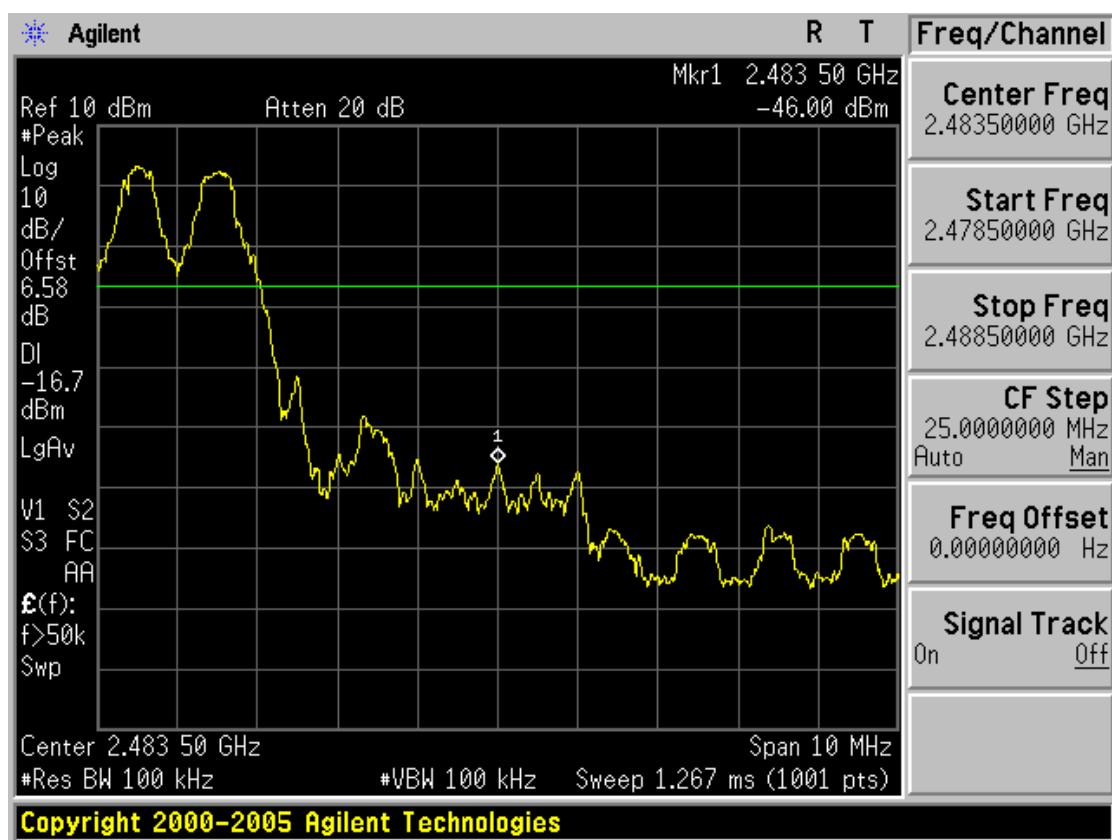
Mid channel spurious



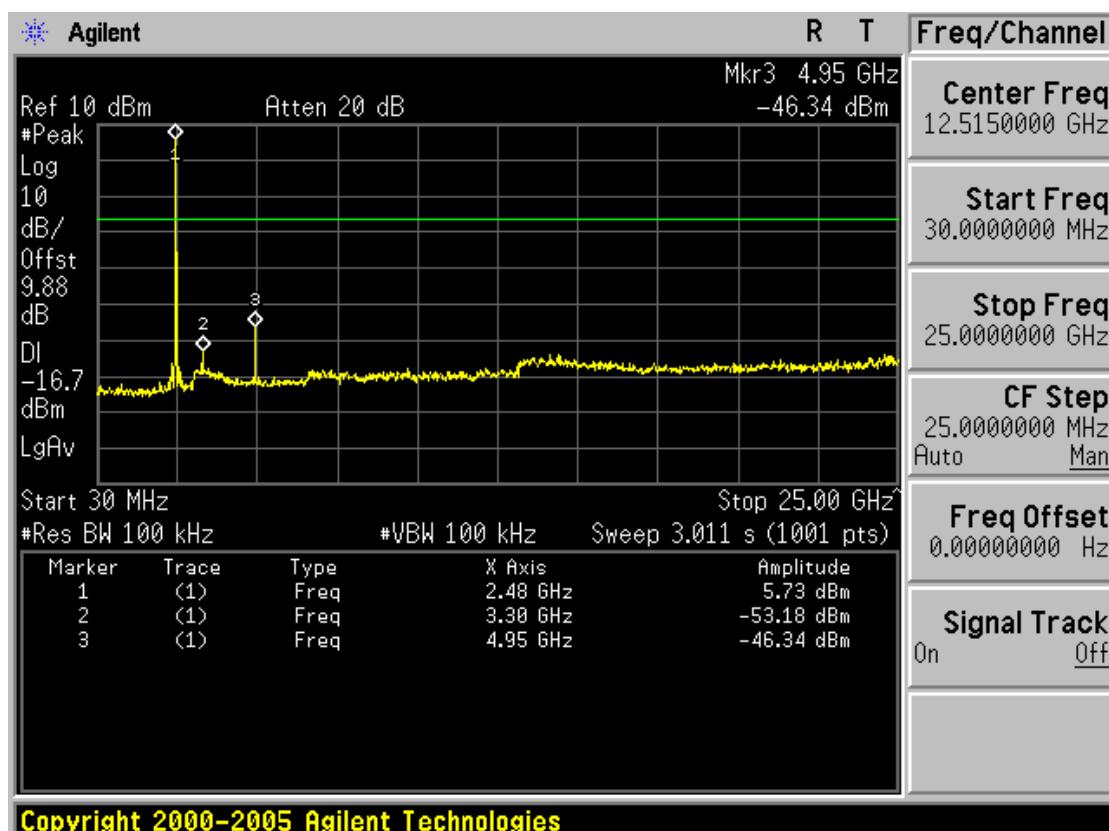
High band with hopping disabled



High band with hopping enabled



High channel spurious



3.2.7 Radiated Emissions

Procedure:

The EUT was placed on a 0.8m high wooden table inside a shielded enclosure. An antenna was placed near the EUT and measurements of frequencies and amplitudes of field strengths were recorded for reference during final measurements. For final radiated testing, measurements were performed in OATS. Measurements were performed with the EUT oriented in 3 orthogonal axis and rotated 360 degrees to determine worst-case orientation for maximum emissions.

The spectrum analyzer is set to:

Center frequency = the worst channel

Frequency Range = 30 MHz ~ 10th harmonic.

RBW = 120 kHz (30MHz ~ 1 GHz)

VBW ≥ RBW (Peak)

= 1 MHz (1 GHz ~ 10th harmonic)

VBW = 10Hz (Average)

Trace = max hold

Sweep = auto

Measurement Data: **Comply**

- Refer to the next page.

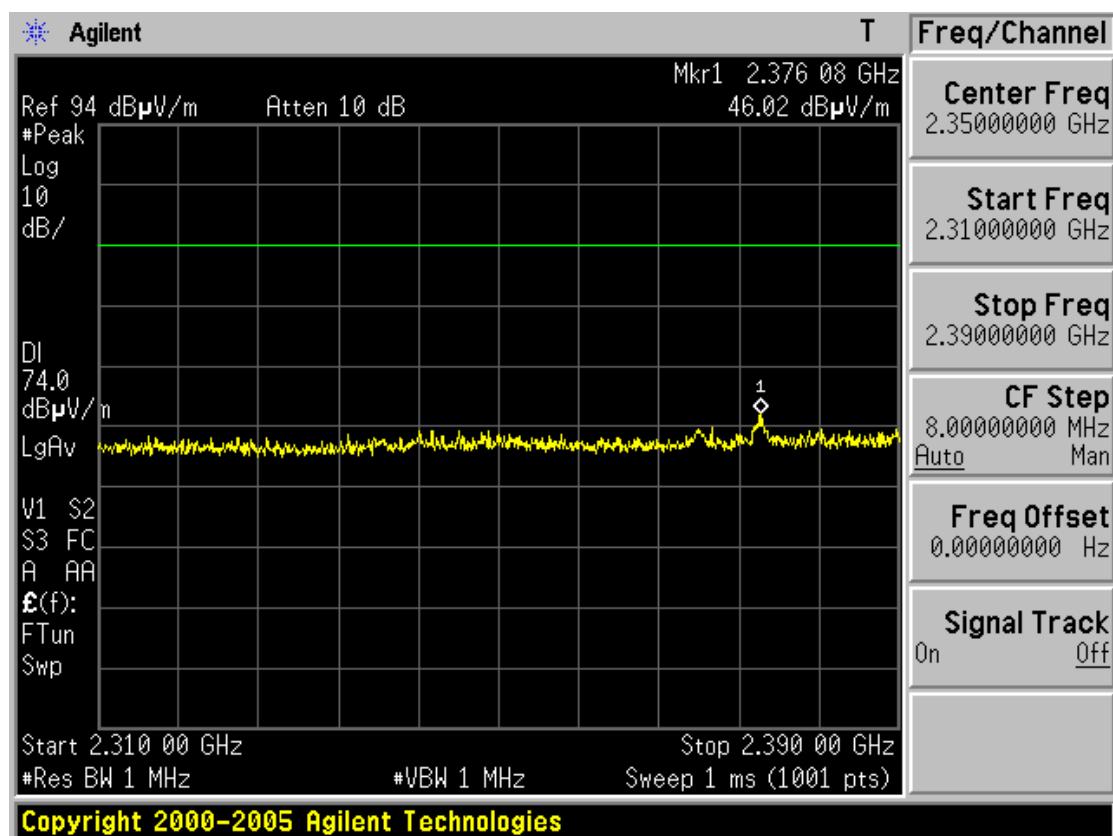
Minimum Standard: FCC Part 15.205 (a), 15.205(b), 15.209(a) and (b)

Limit : FCC P15.209(a)

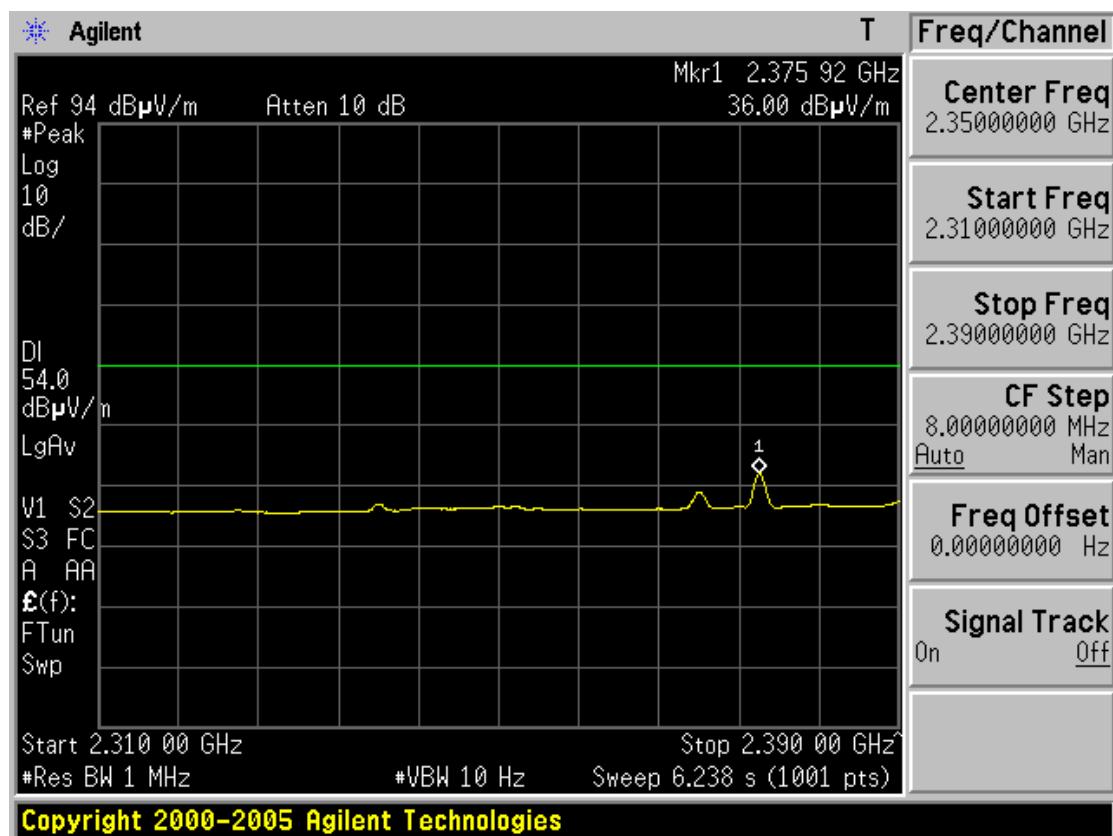
Frequency (MHz)	Limit (uV/m) @ 3m
30 ~ 88	100 **
88 ~ 216	150 **
216 ~ 960	200 **
Above 960	500

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88MHz, 174-216MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

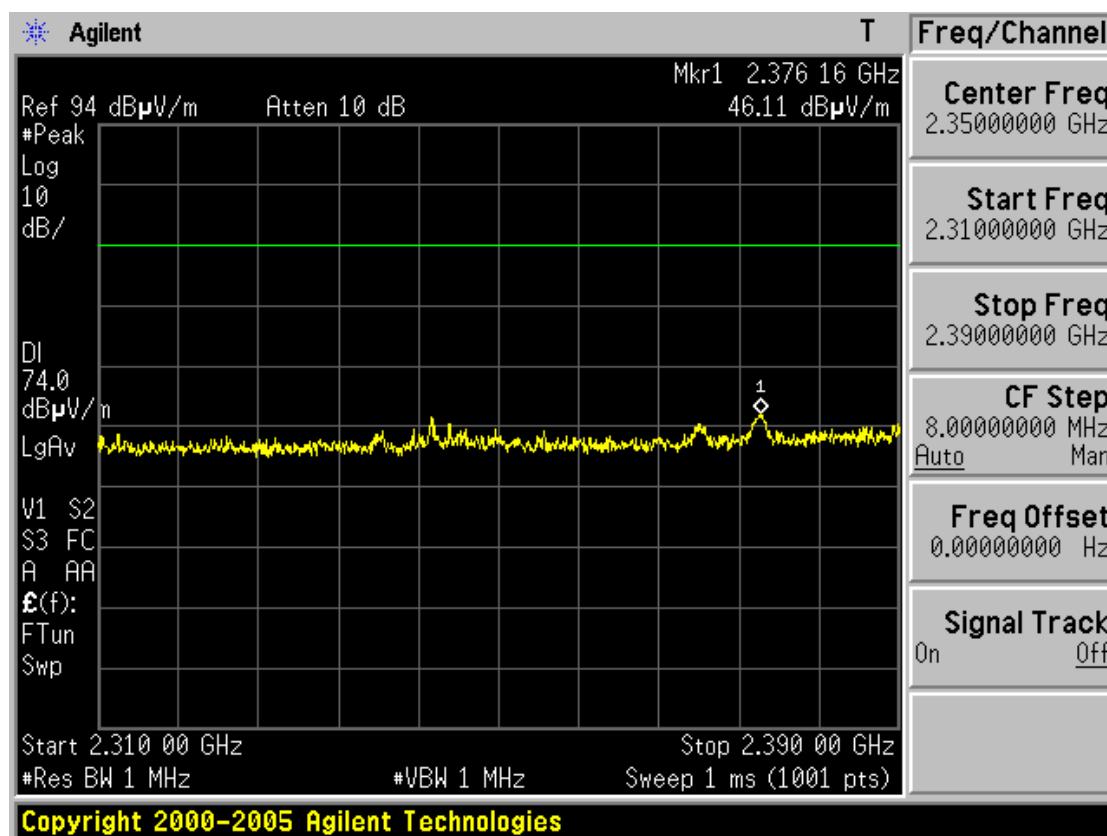
Restricted Band Edge: Low Channel (Peak, Horizontal)



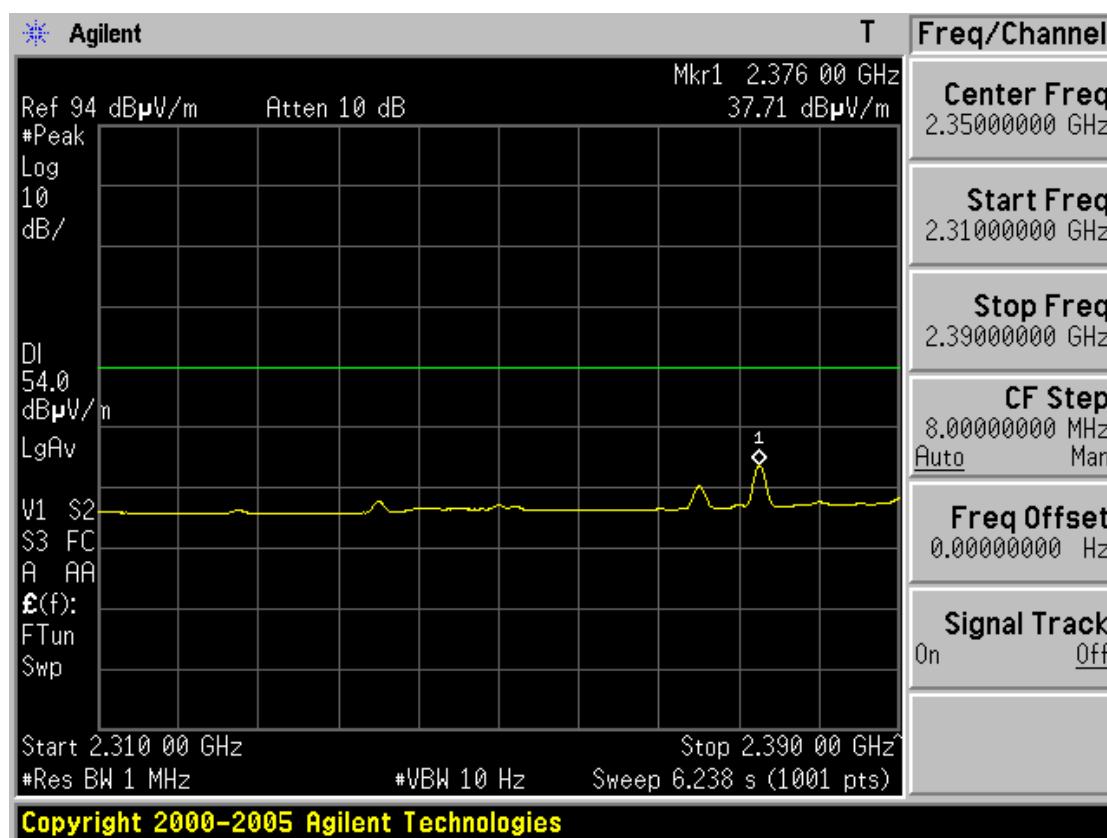
Restricted Band Edge: Low Channel (Average, Horizontal)



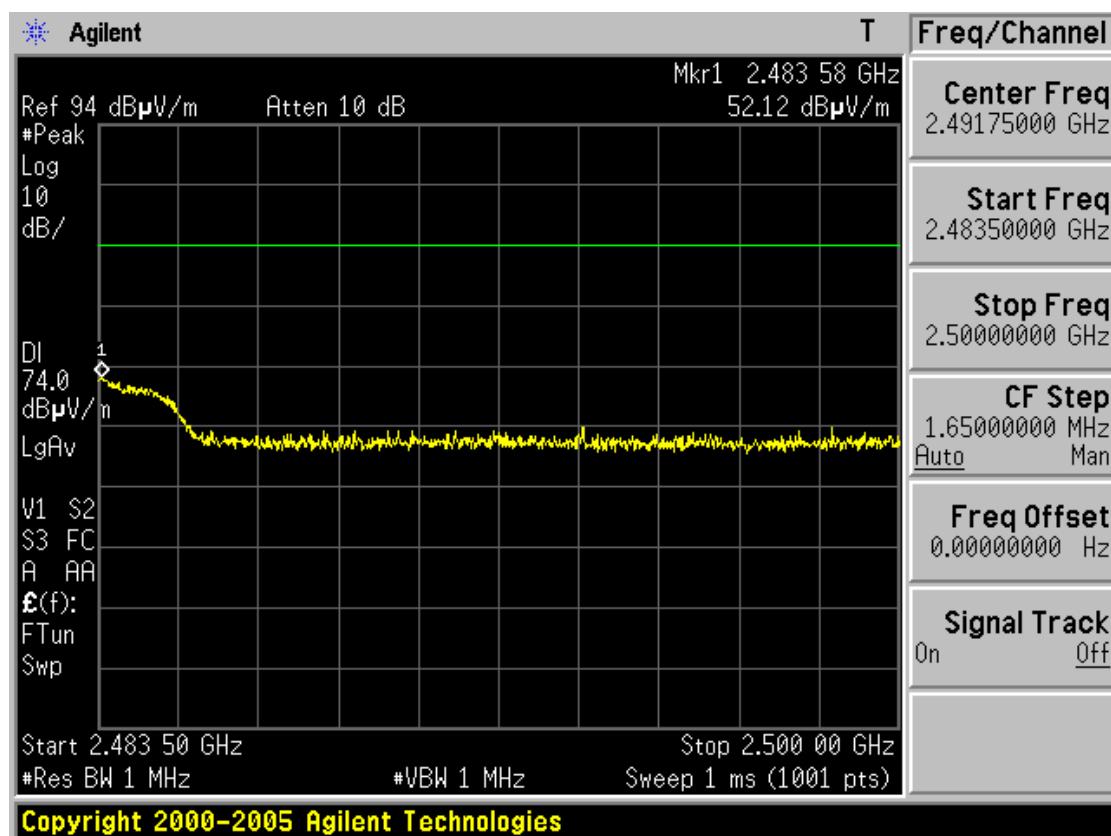
Restricted Band Edge: Low Channel (Peak, Vertical)



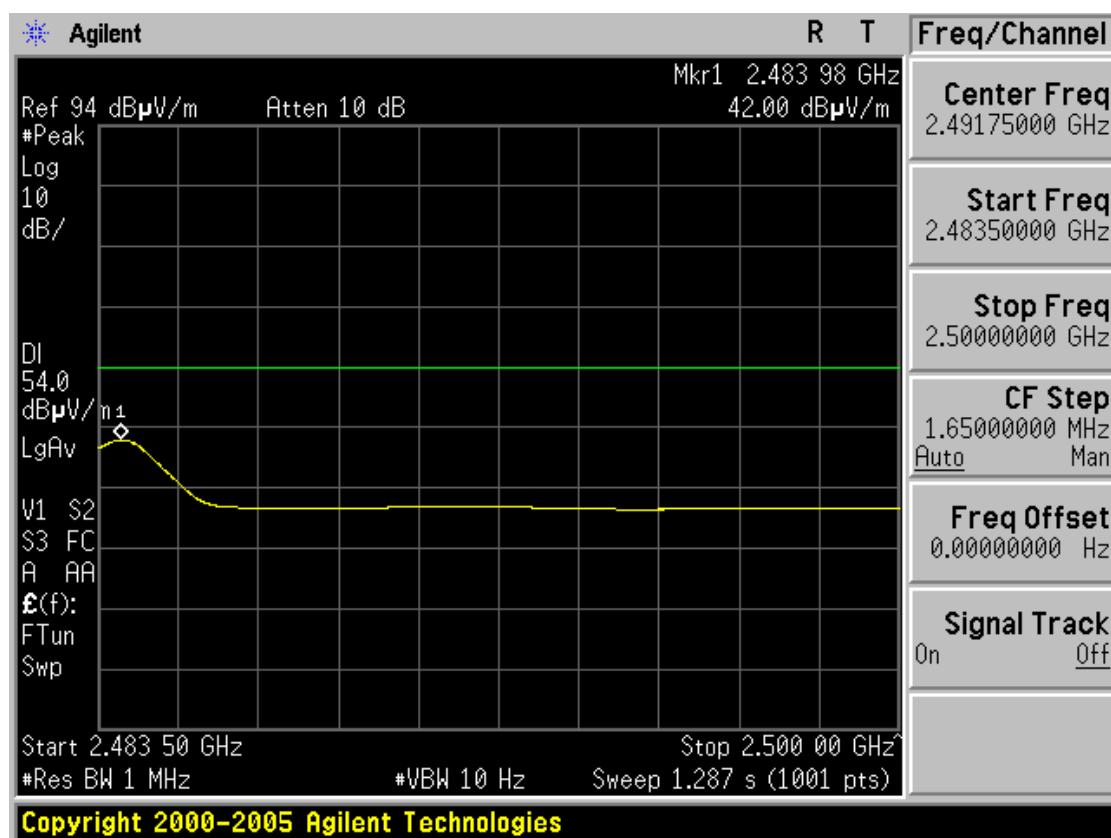
Restricted Band Edge: Low Channel (Average, Vertical)



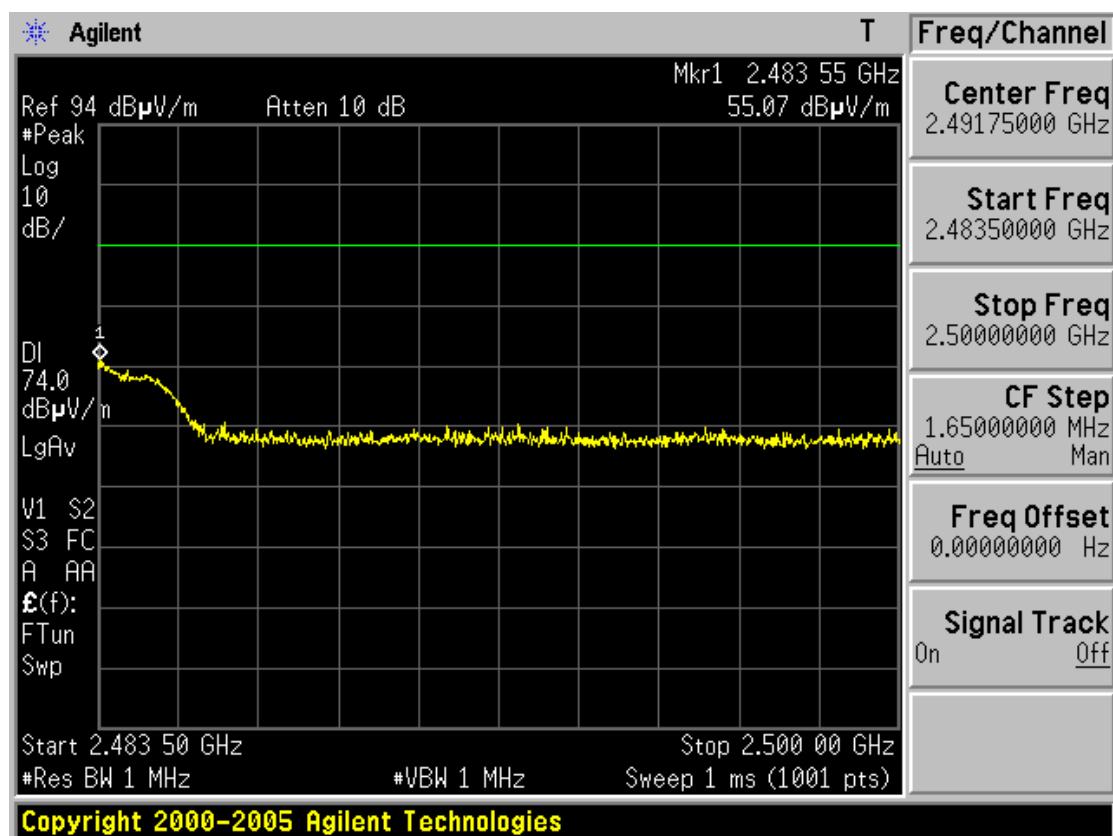
Restricted Band Edge: High Channel (Peak, Horizontal)



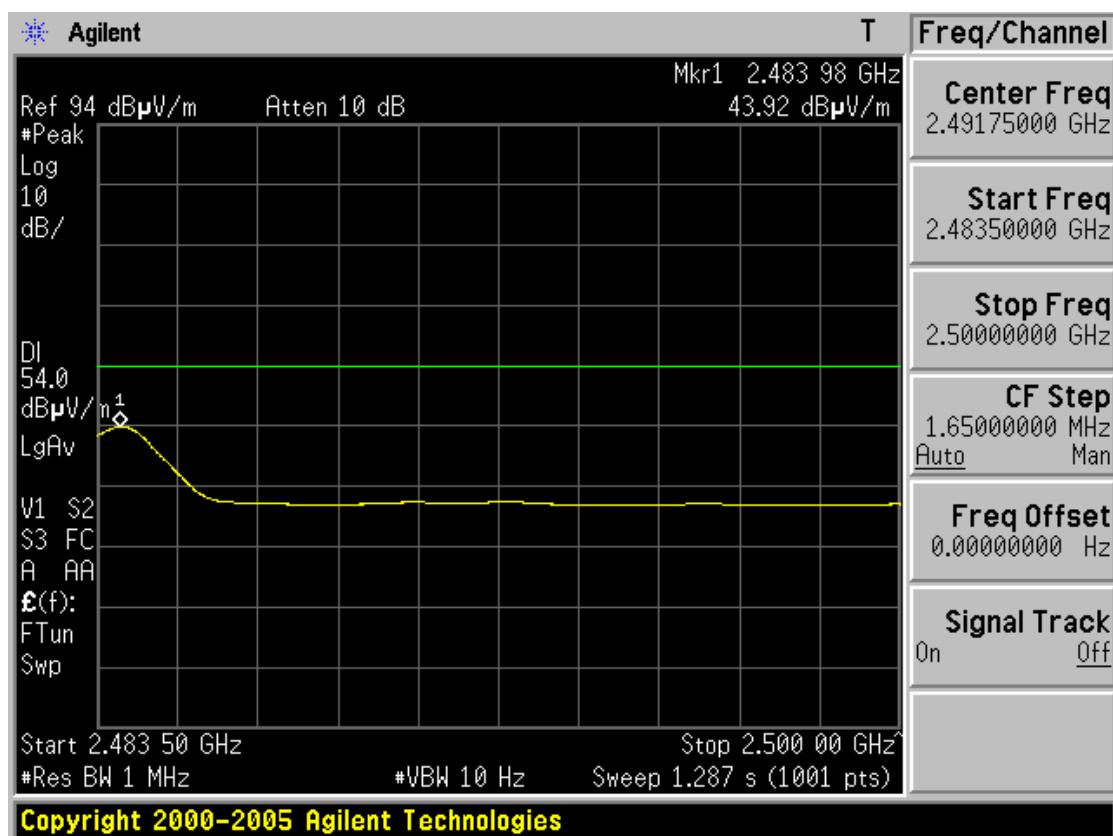
Restricted Band Edge: High Channel (Average, Horizontal)



Restricted Band Edge: High Channel (Peak, Vertical)



Restricted Band Edge: High Channel (Average, Vertical)



Harmonic and other emissions Measurement Data: Fundamental Frequency = 2402MHz

Frequency (MHz)	ANT Pol	Reading(dBuV)			T.F (dB)	Result(dBuV/m)			Limit(dBuV/m)			Margin(dB)		
		QP	PK	AV		QP	PK	AV	QP	PK	AV	QP	PK	AV
37.275	Hor	45.41	-	-	-9.75	35.66	-	-	40.00	-	-	4.34	-	-
37.275	Ver	48.21	-	-	-9.75	38.46	-	-	40.00	-	-	1.54	-	-
46.975	Ver	42.20	-	-	-13.48	28.72	-	-	40.00	-	-	11.28	-	-
46.980	Hor	46.09	-	-	-13.48	32.61	-	-	40.00	-	-	7.39	-	-
199.750	Ver	44.09	-	-	-7.15	36.94	-	-	43.50	-	-	6.56	-	-
403.450	Hor	47.71	-	-	-5.51	42.20	-	-	46.00	-	-	3.80	-	-
667.770	Hor	36.50	-	-	-1.00	35.50	-	-	46.00	-	-	10.50	-	-
4804	Hor	-	51.55	41.97	7.19	-	58.74	49.16	-	74.00	54.00	-	15.26	4.84
4804	Ver	-	51.20	41.48	7.19	-	58.39	48.67	-	74.00	54.00	-	15.61	5.33

Harmonic and other emissions Measurement Data: Fundamental Frequency = 2441MHz

Frequency (MHz)	ANT Pol	Reading(dBuV)			T.F (dB)	Result(dBuV/m)			Limit(dBuV/m)			Margin(dB)		
		QP	PK	AV		QP	PK	AV	QP	PK	AV	QP	PK	AV
37.275	Hor	46.26	-	-	-9.75	36.51	-	-	40.00	-	-	3.49	-	-
46.975	Hor	45.48	-	-	-13.48	32.00	-	-	40.00	-	-	8.00	-	-
46.975	Ver	47.26	-	-	-13.48	33.78	-	-	40.00	-	-	6.22	-	-
199.750	Ver	45.67	-	-	-7.15	38.52	-	-	43.50	-	-	4.98	-	-
403.450	Hor	46.49	-	-	-5.51	40.98	-	-	46.00	-	-	5.02	-	-
725.973	Hor	45.19	-	-	-0.37	44.82	-	-	46.00	-	-	1.18	-	-
4882	Hor	-	49.88	39.19	7.48	-	57.36	46.67	-	74.00	54.00	-	16.64	7.33
4882	Ver	-	50.66	38.88	7.48	-	58.14	46.36	-	74.00	54.00	-	15.86	7.64

Harmonic and other emissions Measurement Data: Fundamental Frequency = 2480MHz

Frequency (MHz)	ANT Pol	Reading(dBuV)			T.F (dB)	Result(dBuV/m)			Limit(dBuV/m)			Margin(dB)		
		QP	PK	AV		QP	PK	AV	QP	PK	AV	QP	PK	AV
37.275	Hor	45.71	-	-	-9.75	35.96	-	-	40.00	-	-	4.04	-	-
37.275	Ver	46.26	-	-	-9.75	36.51	-	-	40.00	-	-	3.49	-	-
46.975	Ver	49.58	-	-	-13.48	36.10	-	-	40.00	-	-	3.90	-	-
46.975	Hor	46.89	-	-	-13.48	33.41	-	-	40.00	-	-	6.59	-	-
199.750	Ver	45.46	-	-	-7.15	38.31	-	-	43.50	-	-	5.19	-	-
403.450	Hor	48.37	-	-	-5.51	42.86	-	-	46.00	-	-	3.14	-	-
667.770	Hor	44.36	-	-	-1.00	43.36	-	-	46.00	-	-	2.64	-	-
4960	Hor	-	49.63	40.83	7.89	-	57.52	48.72	-	74.00	54.00	-	16.48	5.28
4960	Ver	-	48.31	40.33	7.89	-	56.20	48.22	-	74.00	54.00	-	17.80	5.78

Note.

1. No other spurious and harmonic emissions were detected at a level greater than 20dB below limit.
2. If peak result meet AV limit, AV measurement is omitted.
3. Sample Calculation.

$$\text{Margin} = \text{Limit} - \text{Result} \quad / \quad \text{Result} = \text{Reading} + \text{T.F} \quad / \quad \text{T.F} = \text{AF} + \text{CL} - \text{AG}$$

Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain

3.2.8 AC Line Conducted Emissions

Procedure:

The conducted emissions are measured in the shielded room with a spectrum analyzer in peak hold. While the measurement, EUT had its hopping function disabled at the middle channels in line with Section 15.31(m). Emissions closest to the limit are measured in the quasi-peak and average detector mode with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation and Exerciser operation. The highest emissions relative to the limit are listed.

Measurement Data: **Comply** (See next pages for actual measured spectrum plots.)

Minimum Standard: FCC Part 15.207(a)/EN 55022

Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 ~ 0.5	66 to 56 *	56 to 46 *
0.5 ~ 5	56	46
5 ~ 30	60	50

* Decreases with the logarithm of the frequency

Measurement Setup

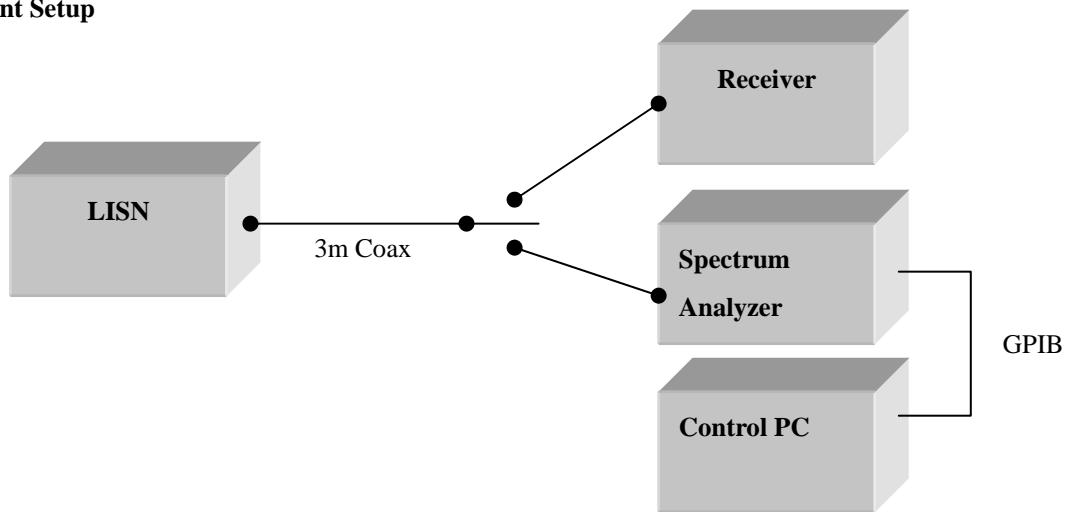
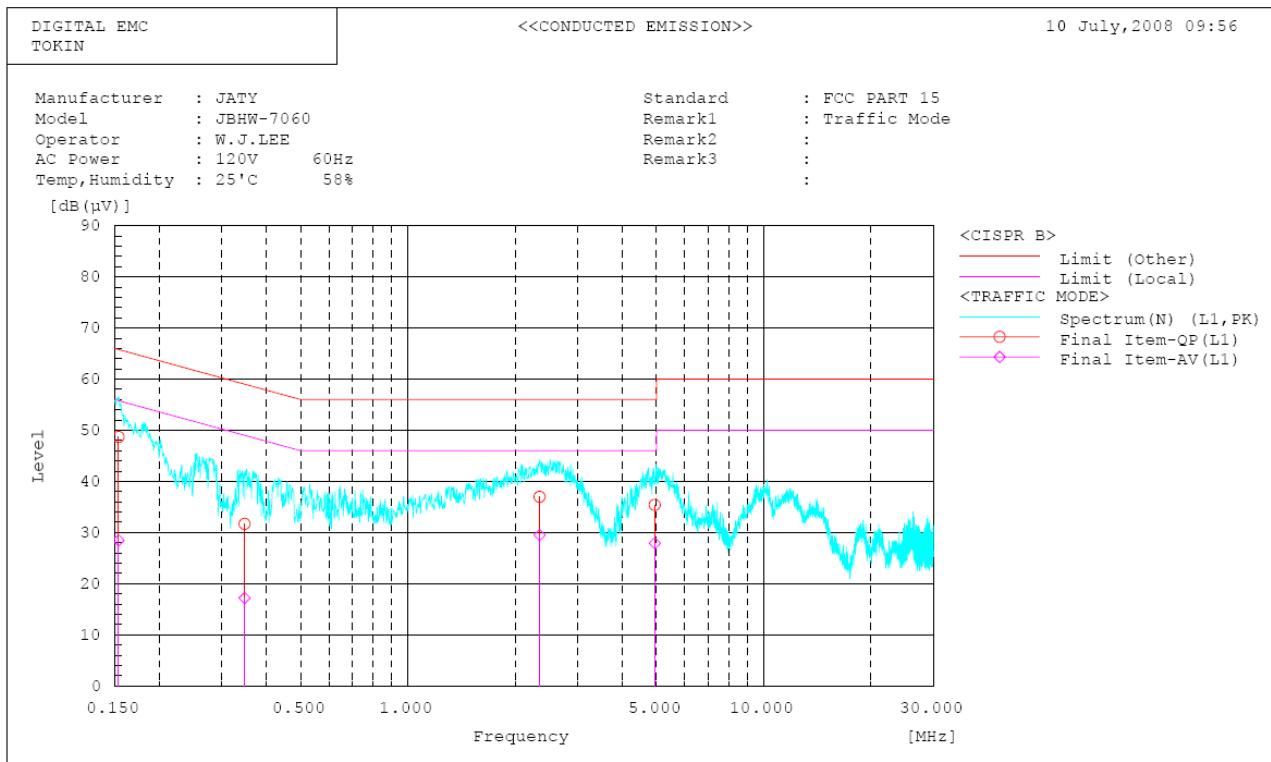
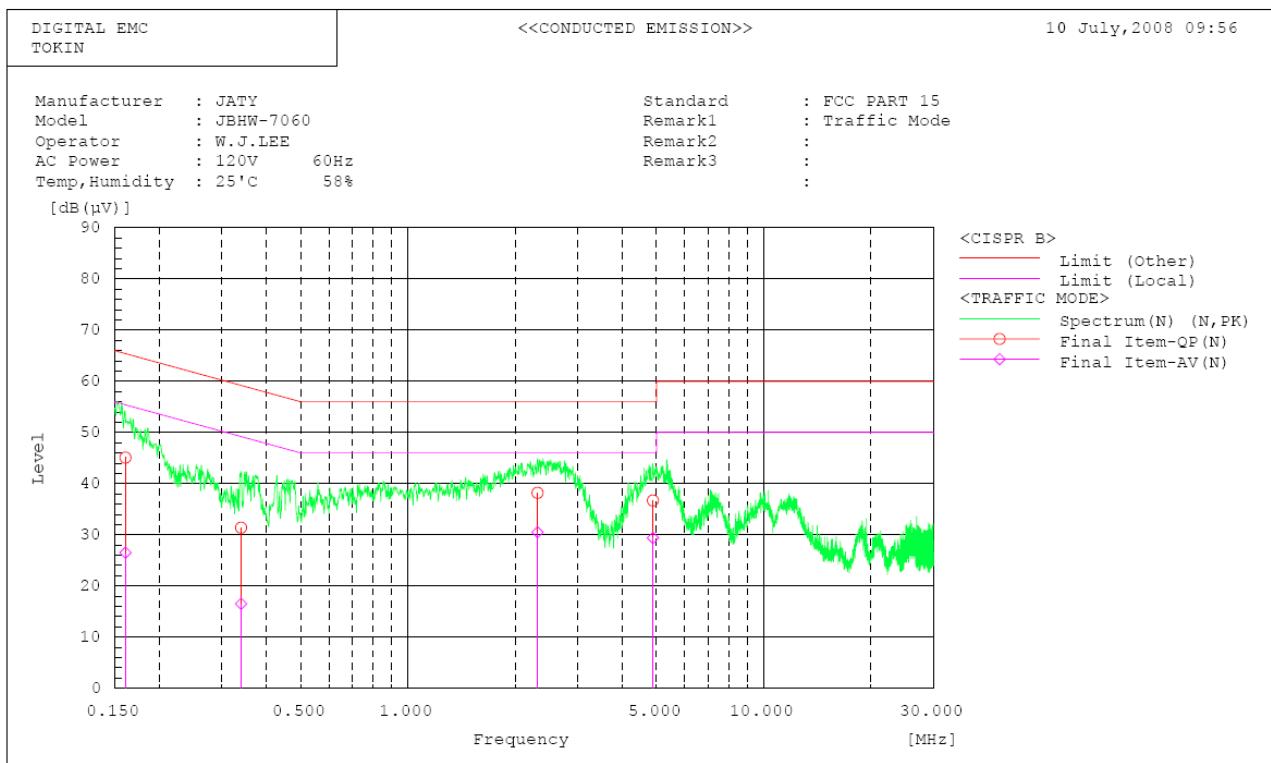


Figure 2: Measurement setup for AC Conducted Emission

- Conducted Emission Graph -



-Conducted Emission List -

***** DIGITAL EMC *****
 <<CONDUCTED EMISSION>>
 10 July, 2008 09:56

Standard : FCC PART 15
 Manufacturer : JATY
 Model : JSHW-7060
 Operator : W.J.LEE
 AC Power : 120V 60Hz
 Temp, Humidity : 25°C 55%
 Remark1 : Traffic Mode
 Remark2 :
 Remark3 :
 :

Final Result

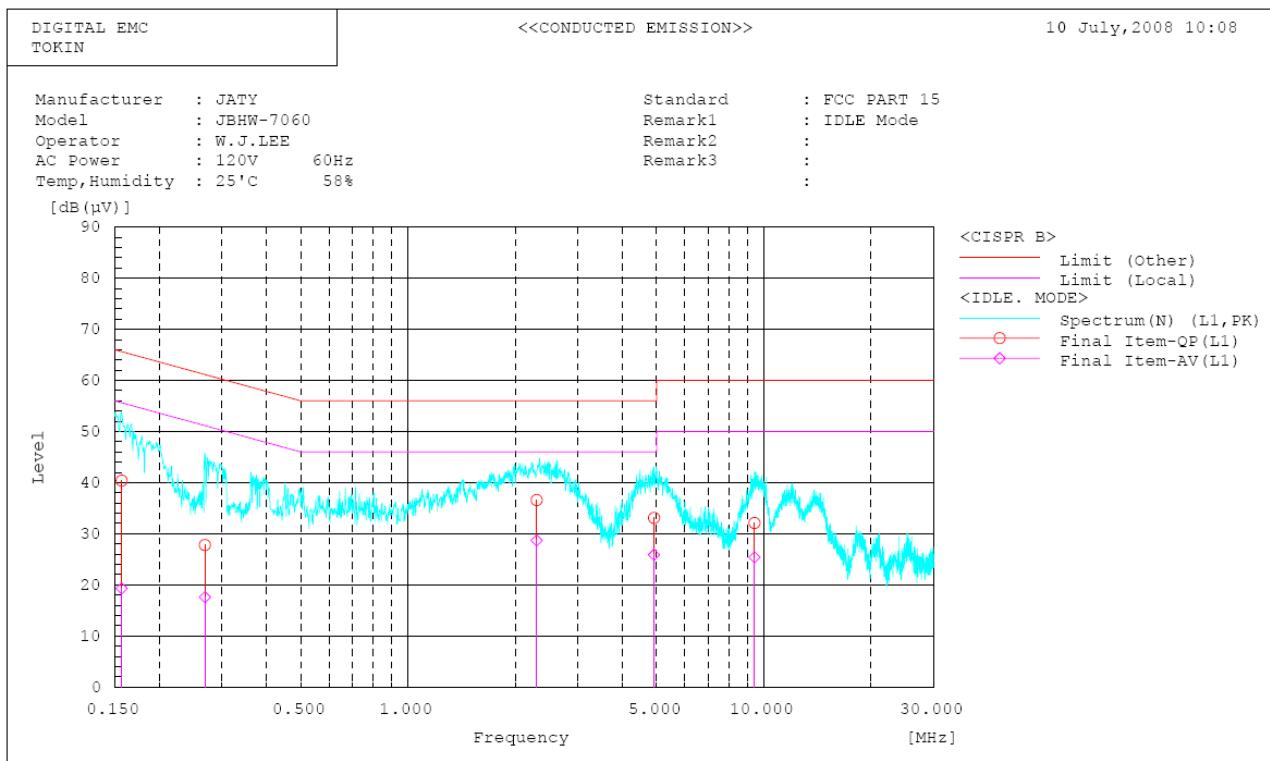
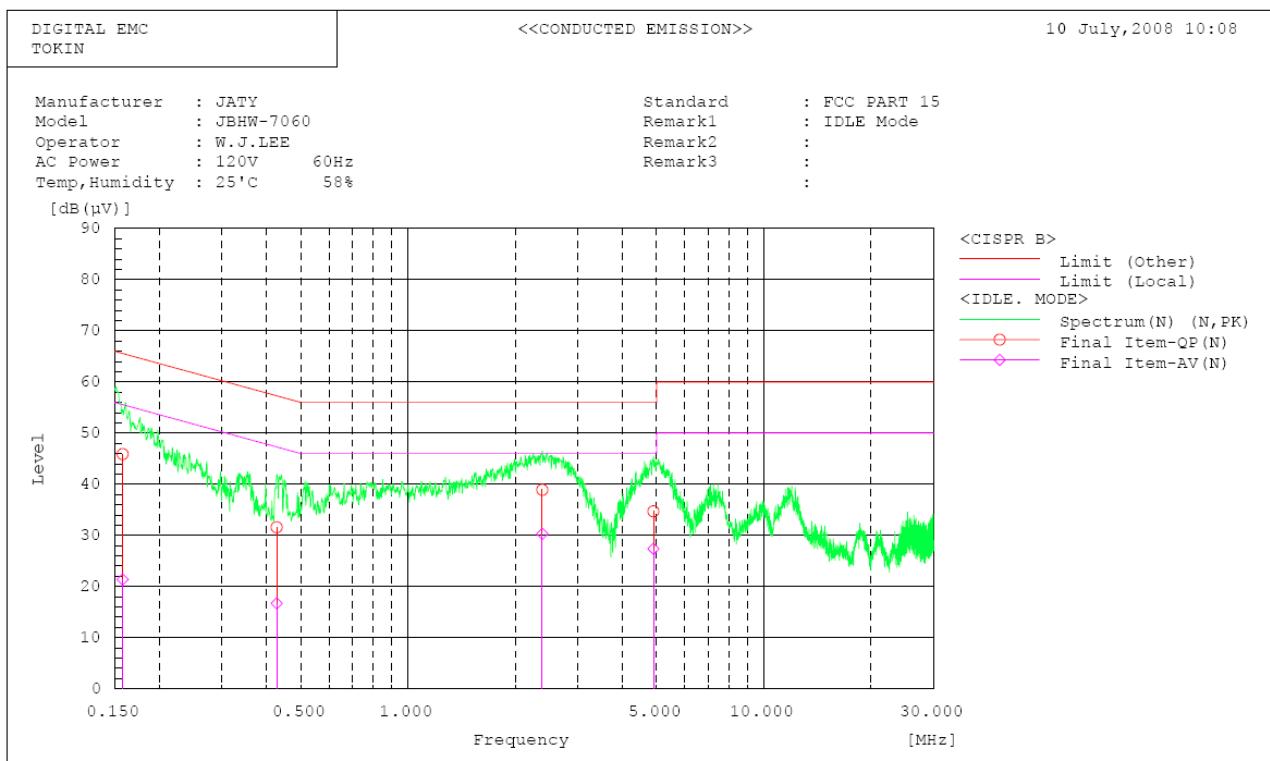
--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB(µV)]	Reading AV [dB(µV)]	c.f. [dB]	Result QP [dB(µV)]	Result AV [dB(µV)]	Limit QP [dB(µV)]	Limit AV [dB(µV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.161	45.0	26.4	0.1	45.1	26.5	65.4	55.4	20.3	28.9	
2	0.340	31.3	16.4	0.1	31.4	16.5	59.2	49.2	27.8	32.7	
3	2.315	37.9	30.2	0.3	38.2	30.5	56.0	46.0	17.8	15.5	
4	4.884	36.4	29.1	0.3	36.7	29.4	56.0	46.0	19.3	16.6	

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(µV)]	Reading AV [dB(µV)]	c.f. [dB]	Result QP [dB(µV)]	Result AV [dB(µV)]	Limit QP [dB(µV)]	Limit AV [dB(µV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.154	48.5	28.3	0.2	48.7	28.5	65.8	55.8	17.1	27.3	
2	0.348	31.5	17.0	0.2	31.7	17.2	55.0	45.0	27.3	31.8	
3	2.346	36.6	29.1	0.4	37.0	29.5	56.0	46.0	19.0	16.5	
4	4.941	34.9	27.4	0.8	35.4	27.9	56.0	46.0	20.6	18.1	

- Conducted Emission Graph -



-Conducted Emission List -

***** DIGITAL EMC *****
 <<CONDUCTED EMISSION>>

10 July, 2008 10:08

Standard : FCC PART 15
 Manufacturer : JATV
 Model : JBBW-7060
 Operator : W. J. LEE
 AC Power : 120V 60Hz
 Temp, Humidity : 25'C 55%
 Remark1 : IDLE Mode
 Remark2 :
 Remark3 :
 :

Final Result**--- N Phase ---**

No.	Frequency	Reading		c.f.		Result		Result		Limit		Margin		Remark
		QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
	[MHz]	[dB(µV)]	[dB(µV)]	[dB]	[dB(µV)]	[dB(µV)]	[dB(µV)]	[dB(µV)]	[dB(µV)]	[dB]	[dB]	[dB]	[dB]	
1	0.158	45.8	21.3	0.1	45.9	21.4	65.6	55.6	19.7	24.2				
2	0.428	31.5	16.6	0.1	31.6	16.7	57.3	47.3	25.7	30.6				
3	2.385	38.6	30.0	0.3	38.9	30.3	56.0	46.0	17.1	15.7				
4	4.893	34.4	27.1	0.3	34.7	27.4	56.0	46.0	21.3	18.6				

--- L1 Phase ---

No.	Frequency	Reading		c.f.		Result		Result		Limit		Margin		Remark
		QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV	
	[MHz]	[dB(µV)]	[dB(µV)]	[dB]	[dB(µV)]	[dB(µV)]	[dB(µV)]	[dB(µV)]	[dB(µV)]	[dB]	[dB]	[dB]	[dB]	
1	0.157	40.2	19.1	0.2	40.4	19.3	65.6	55.6	25.2	36.3				
2	0.269	27.6	17.4	0.2	27.8	17.6	61.1	51.1	33.3	33.5				
3	2.300	36.2	28.3	0.4	36.6	28.7	56.0	46.0	19.4	17.3				
4	4.915	32.6	25.4	0.5	32.1	25.9	56.0	46.0	22.9	20.1				
5	9.413	31.5	24.8	0.6	32.1	25.4	60.0	50.0	27.9	24.6				

APPENDIX

TEST EQUIPMENT FOR TESTS

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment.

	Type	Manufacturer	Model	Cal.Due.Date (dd/mm/yy)	Next.Due.Date (dd/mm/yy)	S/N
01	Spectrum Analyzer	Agilent	E4404B	21/03/08	21/03/09	US41061134
02	Spectrum Analyzer	Agilent	E4440A	15/11/07	15/11/08	MY45304199
03	Spectrum Analyzer	H.P	8563E	09/10/07	09/10/09	3551A04634
04	Spectrum Analyzer	Rohde Schwarz	FSP	06/09/07	06/09/08	100385
05	Spectrum Analyzer	H.P	8591E	26/04/08	26/04/09	3649A05889
06	EMI TEST RECEIVER	R&S	ESU	11/01/08	11/01/09	100014
07	EMI TEST RECEIVER	R&S	ESCI	13/05/08	13/05/09	100364
08	Power Meter	H.P	EMP-442A	10/07/08	10/07/09	GB37170413
09	Power Sensor	H.P	8481A	14/07/08	14/07/09	3318A96566
10	Frequency Counter	H.P	5342A	06/09/07	06/09/08	2119A04450
11	Signal Generator	Rohde Schwarz	SMR20	02/04/08	02/04/09	101251
12	Signal Generator	H.P	ESG-3000A	09/07/08	09/07/09	US37230529
13	Vector Signal Generator	Rohde Schwarz	SMJ100A	17/01/08	17/01/09	100148
14	Audio Analyzer	H.P	8903B	09/07/08	09/07/09	3011A09448
15	Oscilloscope	Tektronix	TDS3052	02/11/07	02/11/08	B016821
16	8960 Series 10 Wireless Comms. Test Set	Agilent	E5515C	18/07/07	18/07/09	GB43461134
17	Universal Radio communication Tester	Rohde Schwarz	CMU 200	02/04/08	02/04/09	107631
18	Bluetooth Tester	TESCOM	TC-3000A	02/11/07	02/11/08	3000A4A0121
19	Power Splitter	WEINSCHEL	1593	05/10/07	05/10/08	332
20	Power Splitter	Anritsu	K241B	19/10/07	19/10/08	020611
21	BAND Reject Filter	Microwave Circuits	N0308372	18/10/07	18/10/08	3125-01DC0312
22	BAND Reject Filter	Wainwright	WRCG1750	18/10/07	18/10/08	SN2
23	AC Power supply	DAEKWANG	5KVA	20/03/08	20/03/09	N/A
24	DC Power Supply	H.P	6622A	20/03/08	20/03/09	465487
25	HORN ANT	ETS	3115	13/06/08	13/06/09	6419
26	HORN ANT	ETS	3115	09/10/07	09/10/08	21097
27	HORN ANT	A.H.Systems	SAS-574	13/06/08	13/06/09	154
28	HORN ANT	A.H.Systems	SAS-574	13/06/08	13/06/09	155

	Type	Manufacturer	Model	Cal.Due.Date (dd/mm/yy)	Next.Due.Date (dd/mm/yy)	S/N
29	Dipole Antenna	Schwarzbeck	VHA9103	19/12/07	19/12/08	2116
30	Dipole Antenna	Schwarzbeck	VHA9103	19/12/07	19/12/08	2117
31	Dipole Antenna	Schwarzbeck	UHA9105	20/12/07	20/12/08	2261
32	Dipole Antenna	Schwarzbeck	UHA9105	20/12/07	20/12/08	2262
33	TEMP & HUMIDITY Chamber	JISCO	J-RHC2	02/10/07	02/10/08	021031
34	Log Periodic Antenna	Schwarzbeck	UHALP9108A1	01/10/07	01/10/08	1098
35	Biconical Antenna	Schwarzbeck	VHA9103	01/10/07	01/10/08	2233
36	Digital Multimeter	H.P	34401A	20/03/08	20/03/09	3146A13475
37	Attenuator (10dB)	WEINSCHEL	23-10-34	05/10/07	05/10/08	BP4386
38	Attenuator (10dB)	WEINSCHEL	23-10-34	30/01/08	30/01/09	BP4387
39	High-Pass Filter	ANRITSU	MP526D	08/10/07	08/10/08	MP27756
40	Attenuator (3dB)	Agilent	8491B	15/07/08	15/07/09	58177
41	20dB Attenuator	Aeroflex/Weinschel	86-20-11	25/10/07	25/10/08	432
42	10dB Attenuator	Aeroflex/Weinschel	86-10-11	25/10/07	25/10/08	446
43	10dB Attenuator	Aeroflex/Weinschel	86-10-11	25/10/07	25/10/08	408
44	Type N Coaxial CIRCULATOR	NOVA MICROWAVE	0088CAN	11/07/08	11/07/09	788
45	Type N Coaxial CIRCULATOR	NOVA MICROWAVE	0185CAN	11/07/08	11/07/09	790
46	Type N Coaxial CIRCULATOR	NOVA MICROWAVE	0215CAN	11/07/08	11/07/09	112
47	Amplifier (25dB)	Agilent	8447D	21/05/08	21/05/09	2944A10144
48	Amplifier (30dB)	Agilent	8449B	25/10/07	25/10/08	3008A01590
49	Amplifier (22dB)	H.P	8447E	27/02/08	27/02/09	2945A02865
50	Position Controller	TOKIN	5901T	N/A	N/A	14173
51	Driver	TOKIN	5902T2	N/A	N/A	14174
52	RFI/FIELD Intensity Meter	Kyorits	KNW-2402	06/09/07	06/09/08	4N-170-3
53	LISN	Kyorits	KNW-407	30/08/07	30/08/08	8-317-8
54	LISN	Kyorits	KNW-242	06/10/07	06/10/08	8-654-15
55	CVCF	NF Electronic	4400	N/A	N/A	344536 4420064
56	Software	ToYo EMI	EP5/RE	N/A	N/A	Ver 2.0.800
57	Software	ToYo EMI	EP5/CE	N/A	N/A	Ver 2.0.801
58	Software	AUDIX	e3	N/A	N/A	Ver 3.0
59	Software	Agilent	Benchlink	N/A	N/A	A.01.09 021211