

10 NUMBER of HOPPING CHANNELS

10.1 Standard Applicable

According to 15.247(b)(1), for frequency hopping systems, operating in the 2400-2483.5MHz band employing at least 75 hopping channels

10.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. The setup of the EUT as shown in figure 3. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set EUT to hopping operating mode and set spectrum analyzer maximum to measure the number of hopping channels.

10.3 Measurement Equipment

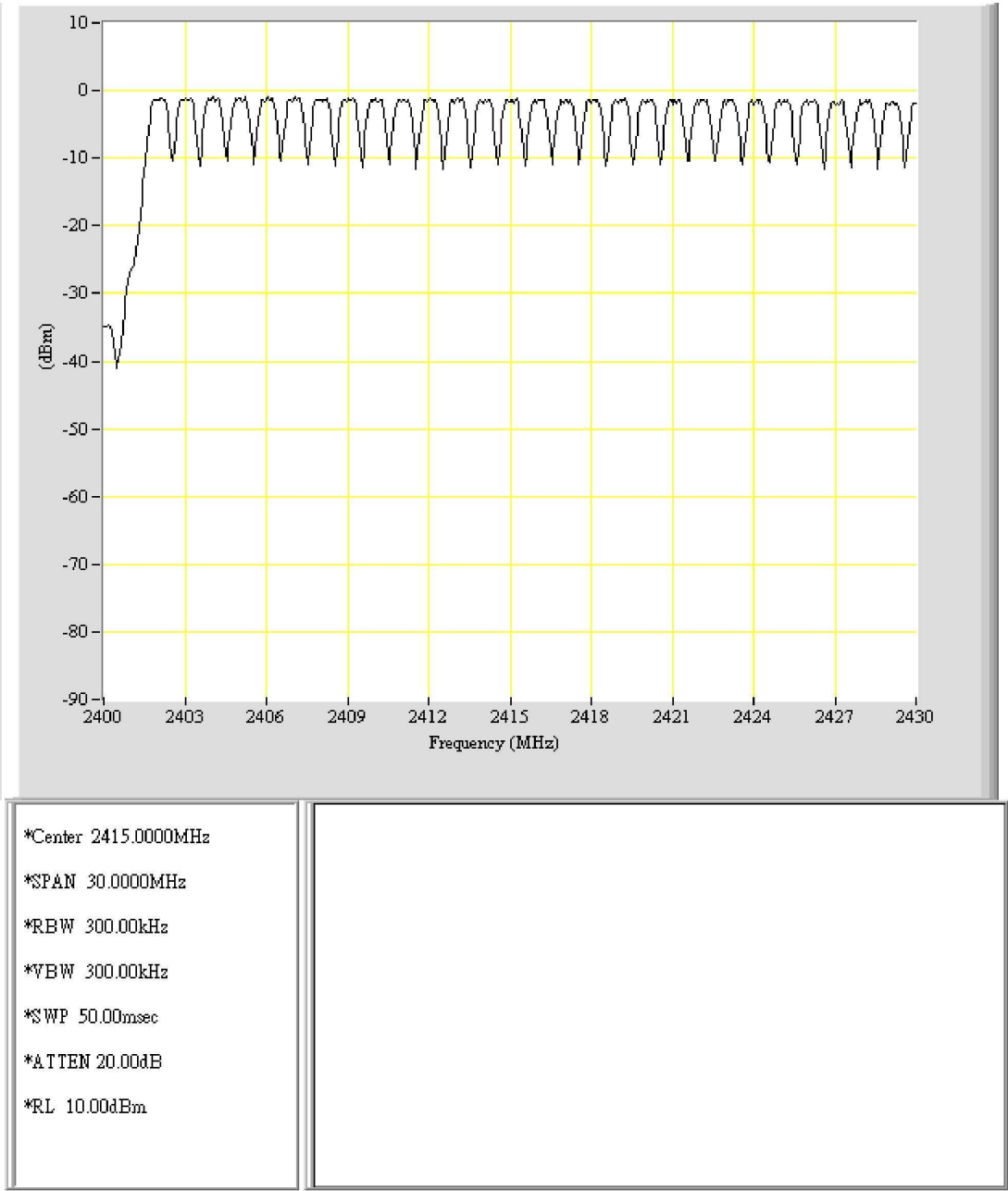
Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Agilent	8564EC	09/23/2006

10.4 Measurement Data

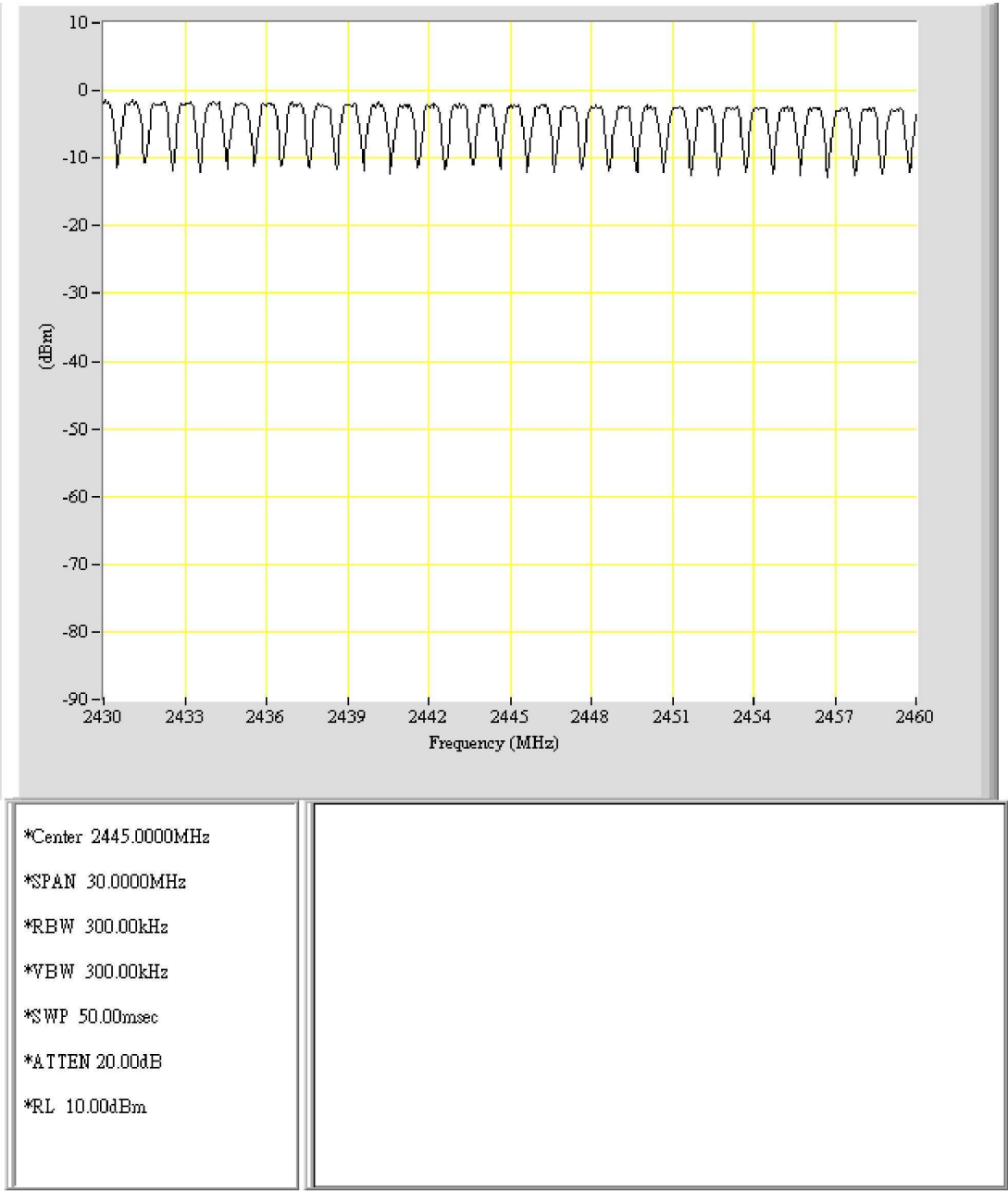
Test Date : Feb. 08, 2006 Temperature : 13°C Humidity : 70%

Number of hopping channels = 79 channels

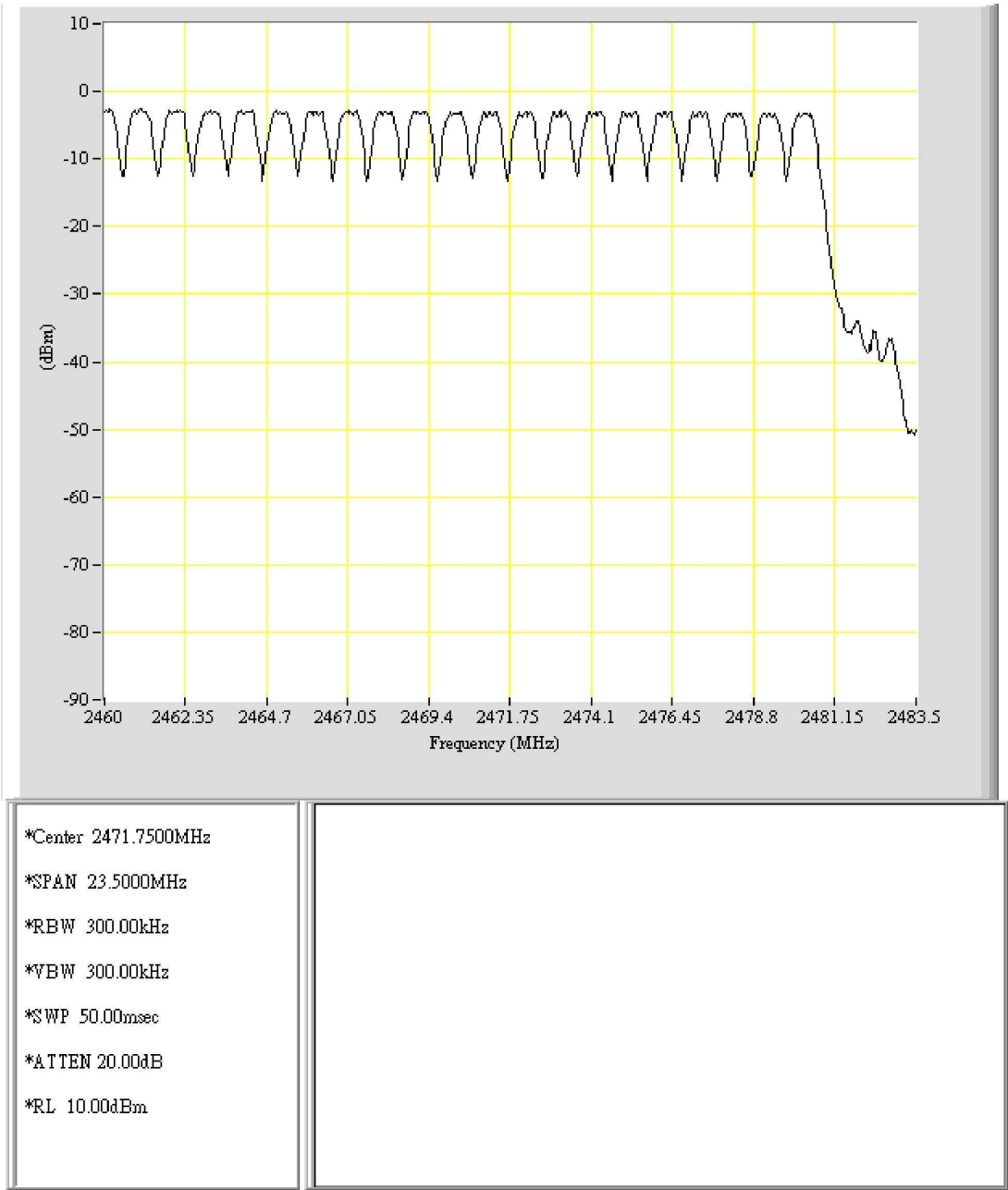
Note: Please refer to page 51 to page 53 for chart.



EUT: BT-2000
Purpose: No_of_Channel
Condition: 1
Note:



EUT: BT-2000
Purpose: No_of_Channel
Condition: 2
Note:



EUT: BT-2000
Purpose: No_of_Channel
Condition: 3
Note:

11 HOPPING CHANNEL CARRIER FREQUENCY SEPARATED

11.1 Standard Applicable

According to 15.247(a)(1), the frequency hopping system shall have hopping channel carrier frequencies separated by minimum of 25kHz or the 20dB bandwidth of hopping channel, whichever is greater. Alternatively, frequency hopping system 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 system operate with an output power no greater than 125 mW.

11.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. The setup of the EUT as shown in figure 3. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any measurement frequency within its operating range and make sure the instrument is operated in its linear range.
3. Set spectrum analyzer maximum hold to measure channel carrier frequency , then adjust channel carrier frequency to adjacent channel.
4. Repeat above procedure until all measured frequencies were complete.

11.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Agilent	8564EC	09/23/2006

11.4 Measurement Data

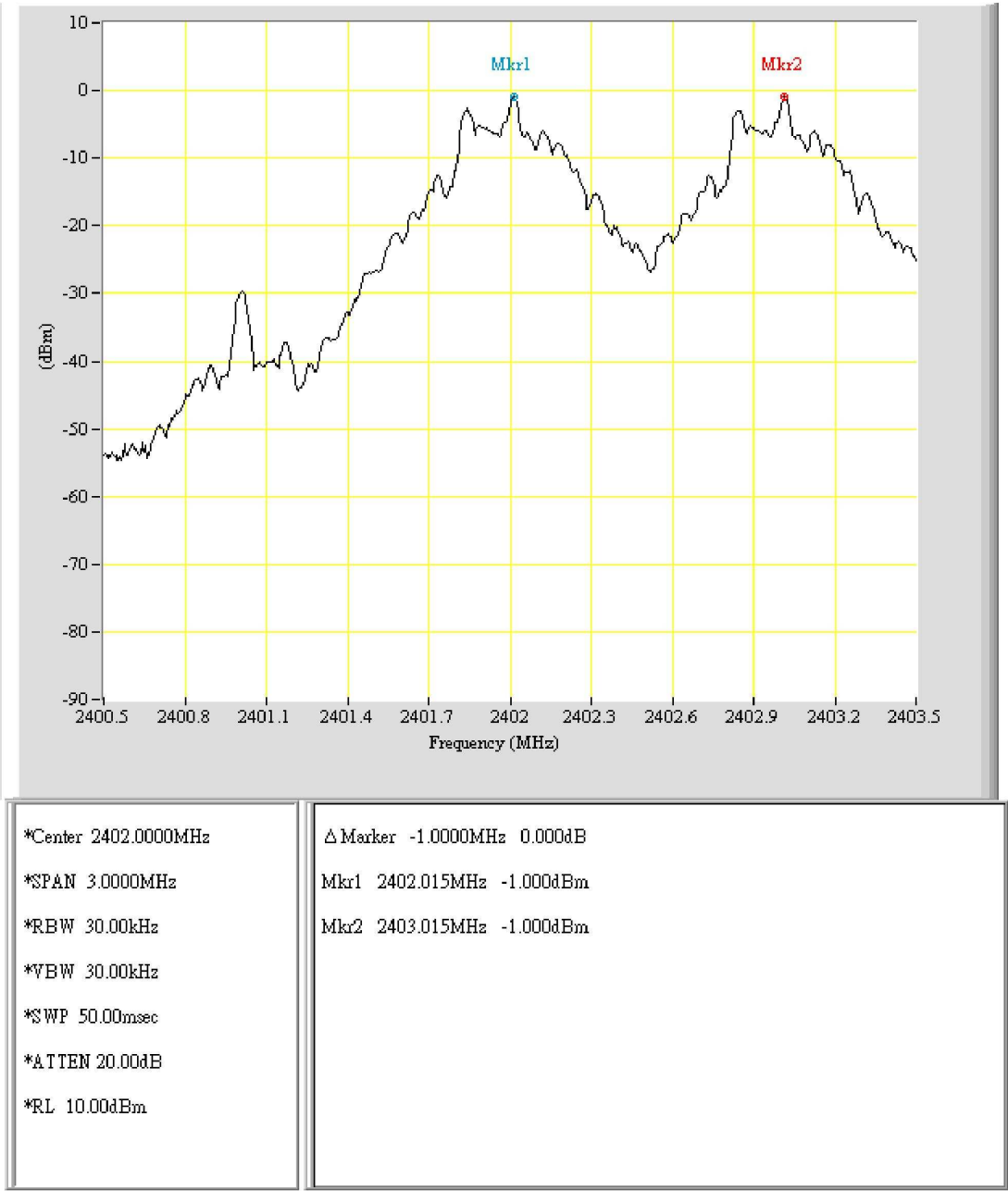
Test Date : Feb. 08, 2006

Temperature : 13°C

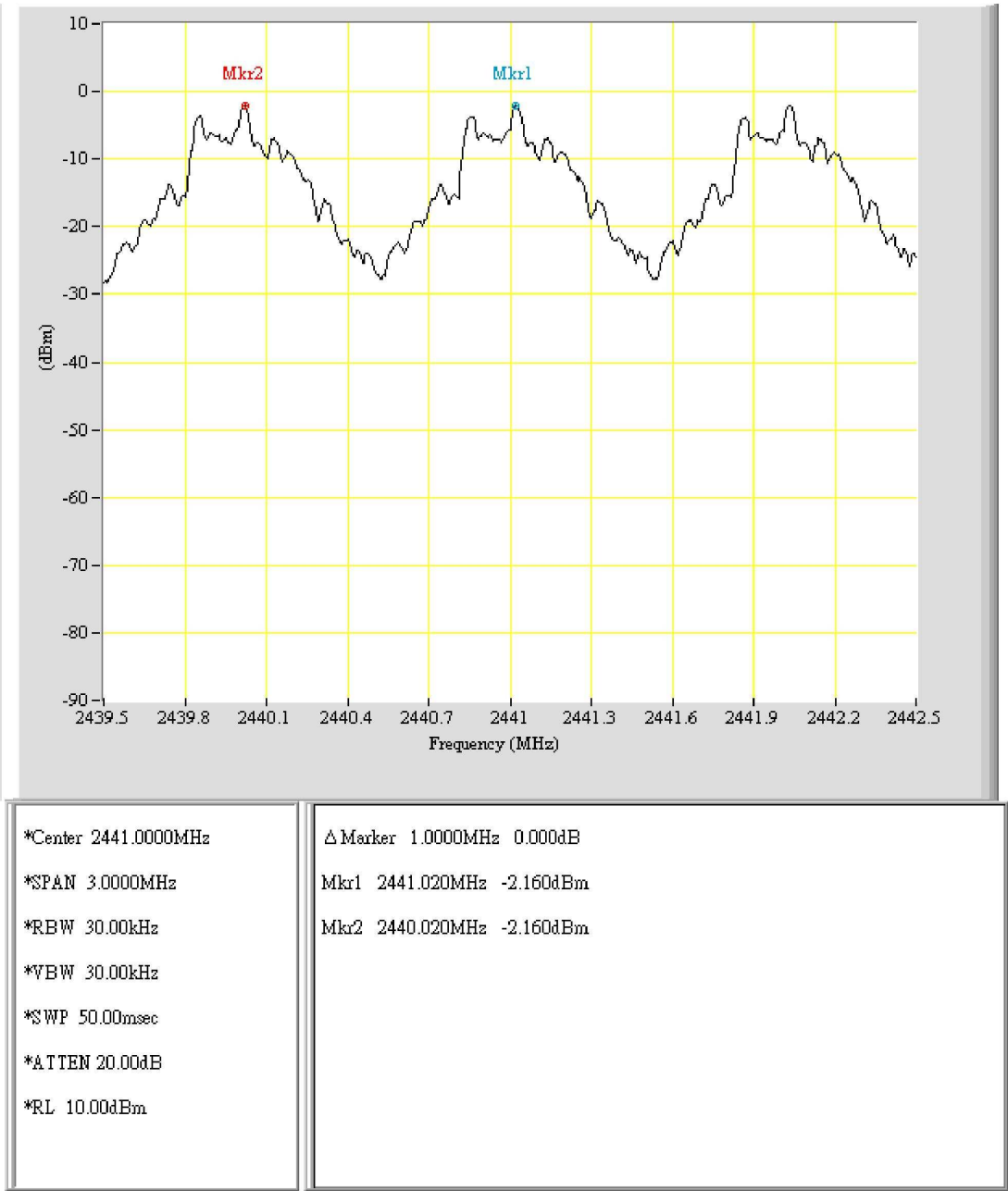
Humidity : 70%

Channel	Frequency (MHz)	Hopping Channel Carrier Frequency Separated (MHz)	Chart
0	2402	1	Page 56
39	2441	1	Page 57
78	2480	1	Page 58

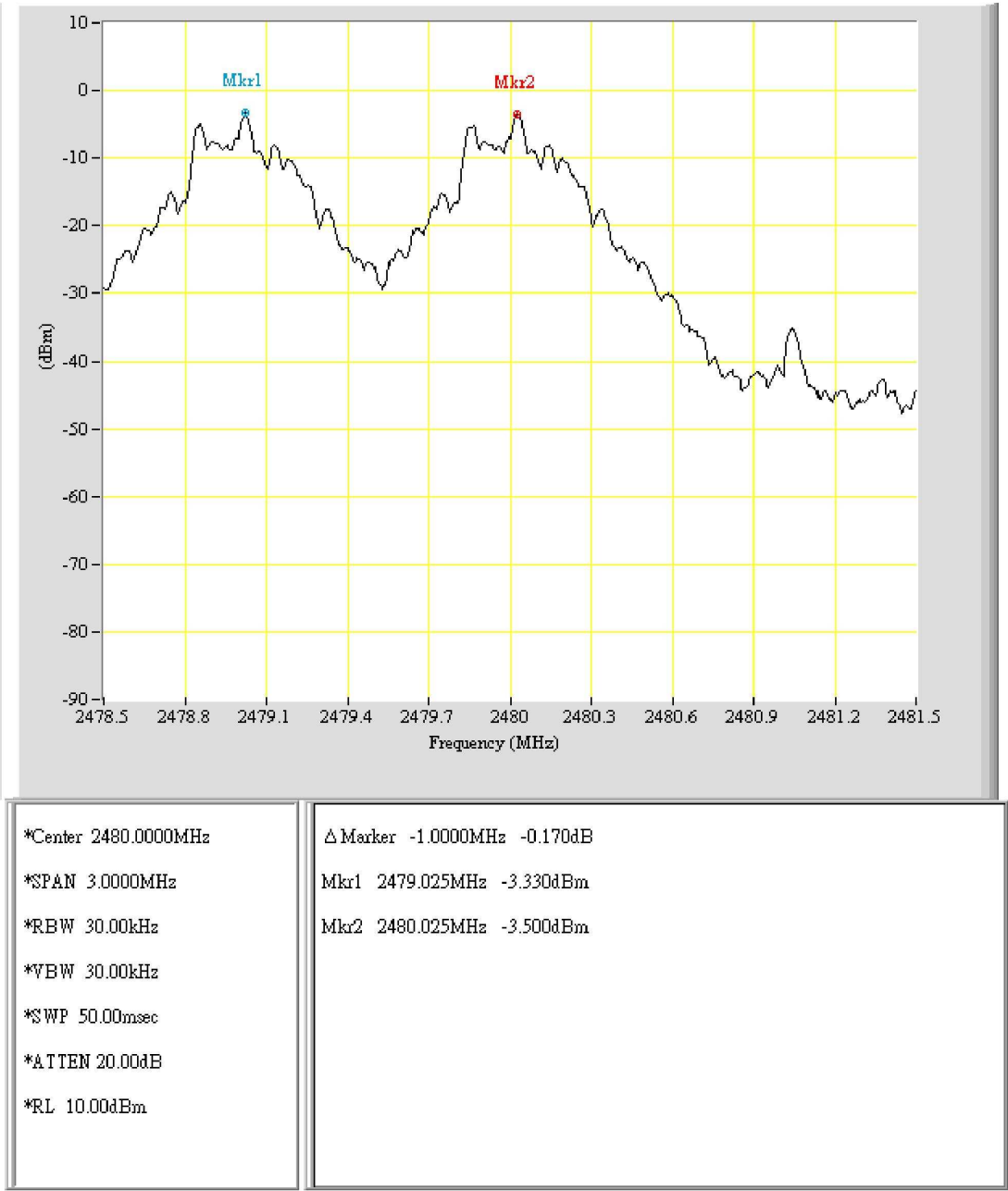
Note: Please refer to page 56 to page 58 for chart.



EUT: BT-2000
Purpose: Channel_Seperation
Condition: CH00
Note:



EUT: BT-2000
Purpose: Channel_Seperation
Condition: CH39
Note:



EUT: BT-2000
Purpose: Channel_Seperation
Condition: CH78
Note:

12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

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

12.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. The setup of the EUT as shown in figure 3. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 3kHz, VBW to 30 kHz, sweep 300kHz and sweep time 100 sec.
4. Measure the highest amplitude appearing on spectral display and record the level to calculate result data.
5. Repeat above procedures until all frequencies measured were complete.

12.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Agilent	8564EC	09/23/2006

12.4 Measurement Data

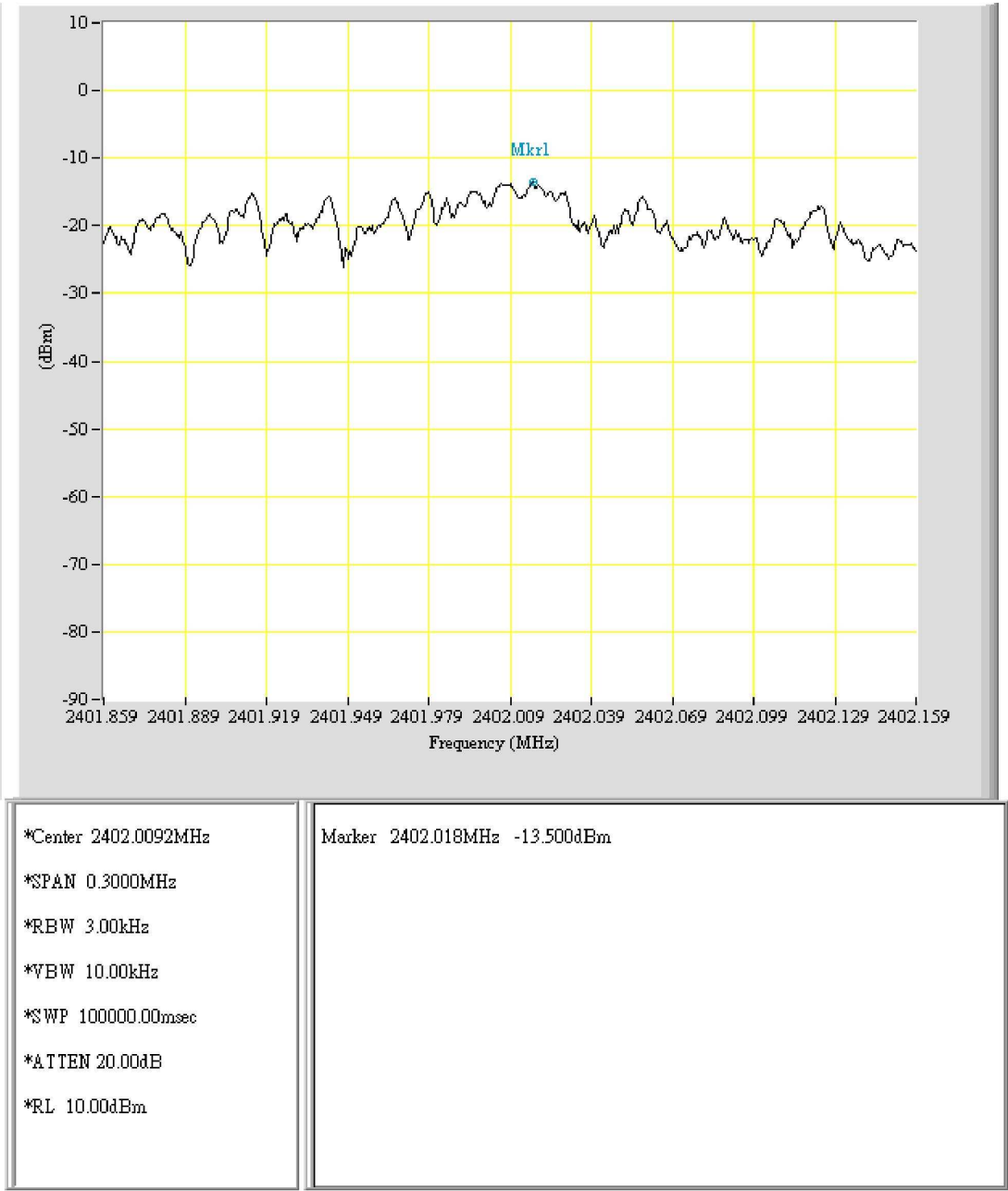
Test Date : Feb. 08, 2006

Temperature : 13°C

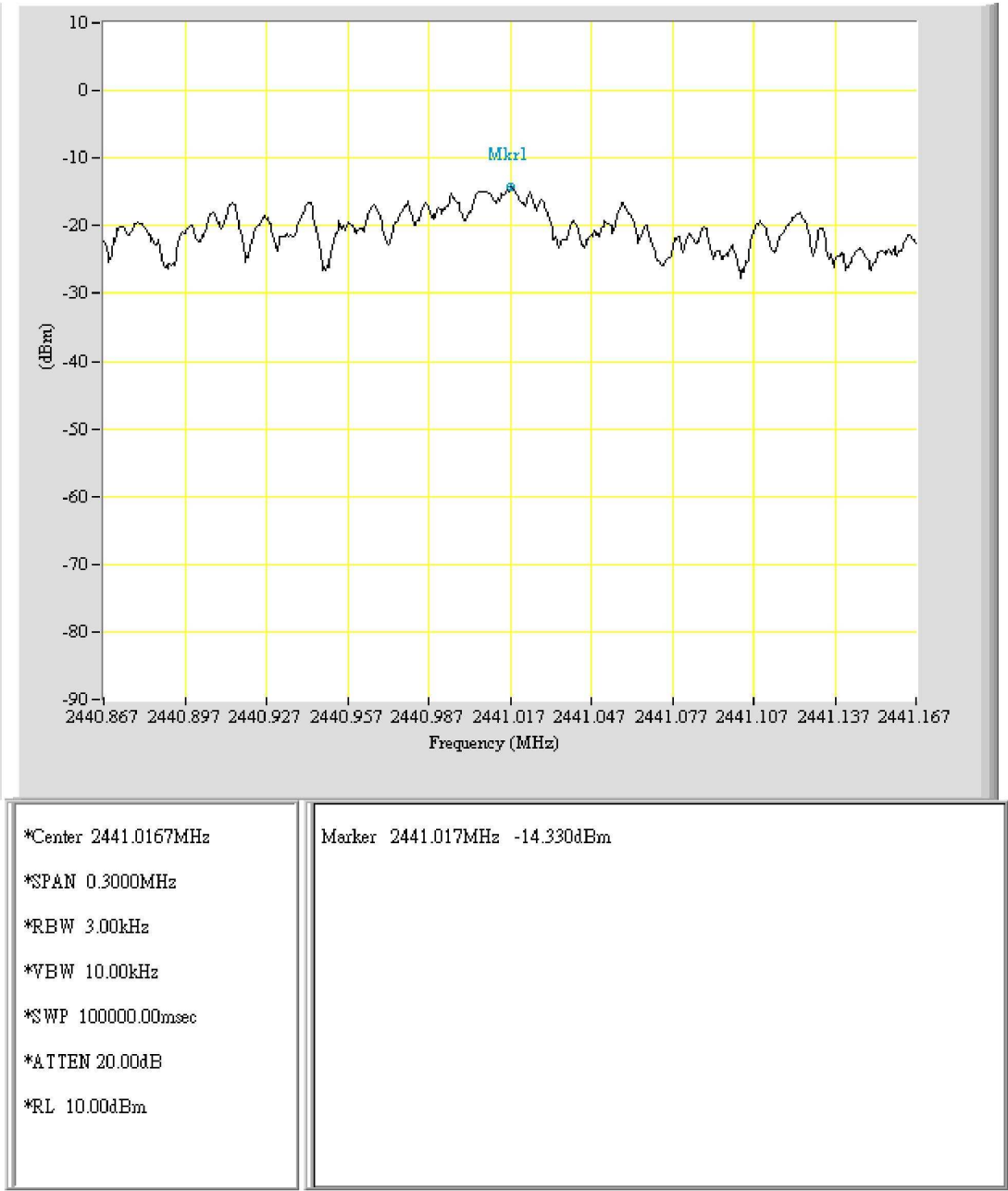
Humidity : 70%

Channel	Frequency (MHz)	Reading (dBm)	Cable Loss (dB)	Power Spectral Density (dBm)	FCC Limit (dBm)	Chart
0	2402	-13.50	1	-12.50	8	Page 61
39	2441	-14.33	1	-13.33	8	Page 62
78	2480	-16.33	1	-15.33	8	Page 63

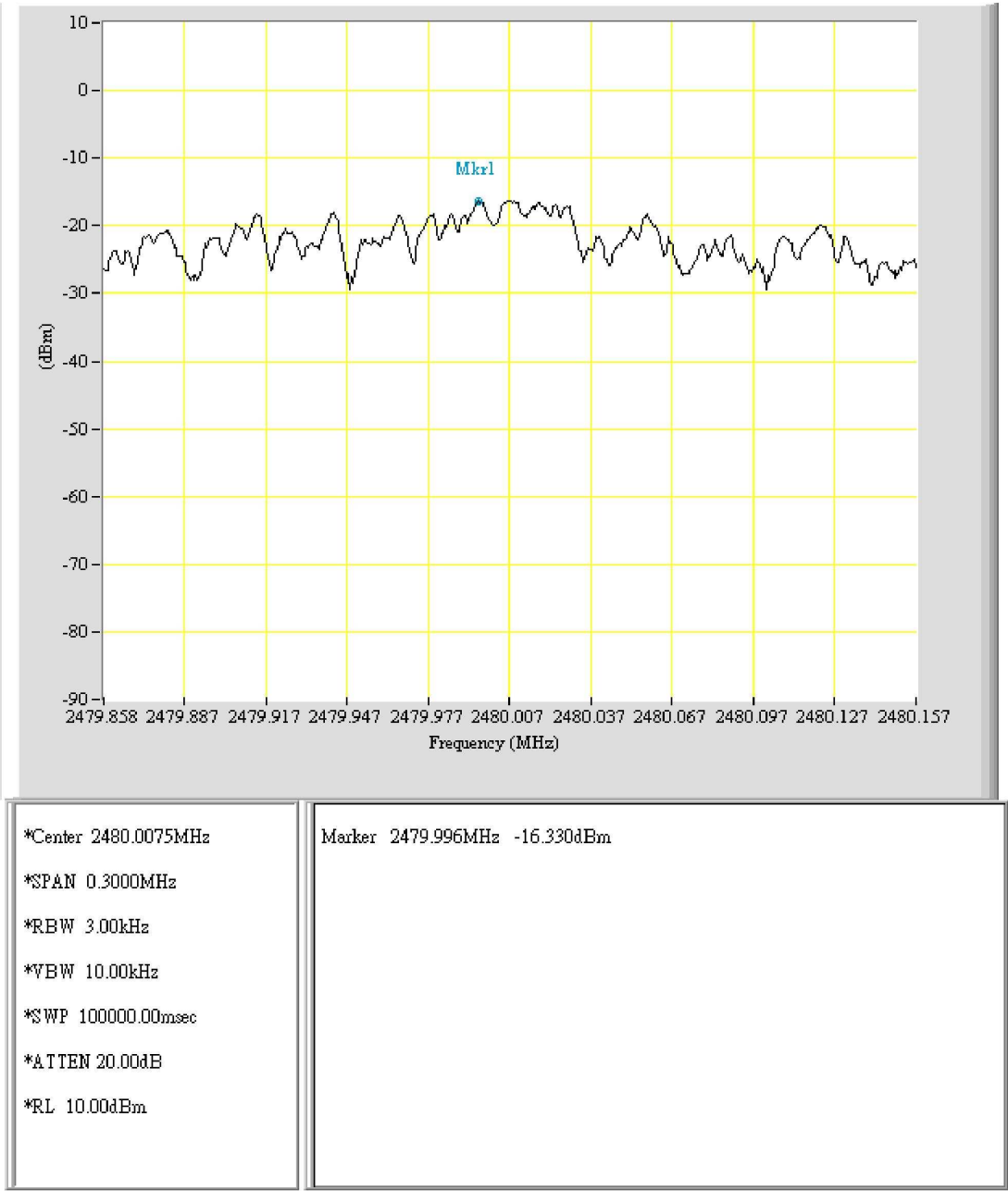
Note: Please refer to page 61 to page 63 for chart.



EUT: BT-2000
Purpose: PwrDensity
Condition: CH00
Note:



EUT: BT-2000
Purpose: PwrDensity
Condition: CH39
Note:



EUT: BT-2000
Purpose: PwrDensity
Condition: CH78
Note: