



FCC TEST REPORT

for

47 CFR Part 15 Subpart C

Equipment : Notebook PC
Trade Name : GETAC; MTC; GTK
Model No. : P470
FCC ID : MAU470
Filing Type : Certification
Applicant : **MiTAC Technology Corp.**
9th FL., No. 75, Ming Sheng E. Rd., Sec. 3, Taipei, Taiwan

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- The data shown in this test report were carried out on Apr. 20, 2007 at **Sporton International Inc. LAB.**
- Report No.: FR731320, Report Version: Rev. 02

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History of this test report

Report Issue Date: Apr. 24, 2007

Report No.	Description



1. General Description of Equipment under Test

1.1 Applicant

MiTAC Technology Corp.

9th FL., No. 75, Ming Sheng E. Rd., Sec. 3, Taipei, Taiwan

1.2 Manufacturer

GeTAC Technology (Kunshan) LTD.

No. 269, 2nd Road, Export Processing Zone, Changjiang South Road, Kunshan, Jiangsu, P.R.C.

1.3 Basic Description of Equipment under Test

Equipment	: Notebook PC
Trade Name	: GETAC; MTC; GTK
Model No.	: P470
FCC ID	: MAU470
Power Supply Type	: Switching
AC Power Cord	: AC 120V, 1.2 meter, 3 pin

1.4 Feature of Equipment under Test

Product Feature & Specification				
1. Type of Modulation	WLAN : DSSS / OFDM BT : GFSK			
2. Number of Channels	802.11b/g : 11 Channels 802.11a : 4 Channels (Band I) / 5 Channels (Band III) BT : 79 Channels			
3. Frequency Band	802.11b/g : 2400MHz ~ 2483.5MHz 802.11a : 5150 ~ 5250MHz (Band I) / 5725~5850MHz (Band III) BT : 2400MHz ~ 2483.5MHz			
4. Carrier Frequency of each channel	802.11b/g : $2412\text{MHz} + (n-1) \times 5\text{ MHz}$, $n=1\sim11$ 802.11a (Band I) : $5000 + n \times 5\text{ MHz}$, $n=36, 40, 44, 48$ 802.11a (Band III) : $5000 + n \times 5\text{ MHz}$, $n=149, 153, 157, 161, 165$ BT : $2402\text{MHz} + n \times 1\text{ MHz}$, $n=0\sim78$			
5. Channel Spacing	802.11b/g : 5 MHz 802.11a : 20 MHz BT : 1 MHz			
6. Maximum Output Power to Antenna (Normal Condition)	802.11b : 16.81 dBm / 802.11g: 20.4 dBm 802.11a : 16.35 dBm (Band I) / 18.87 dBm (Band III) BT : -1.09 dBm			
7. Type of Antenna Connector	I-PEX			
8. Antenna Type	PIFA Antenna			
9. Antenna Gain	802.11b/g : 0.31 dBi (Right) / 1.3 dBi (Left) 802.11a : 0.65 dBi (Right) / 1.09 dBi (Left) BT : 0.75 dBi			
10. Function Type	Transmitter		Transceiver	V



2 Test Configuration of Equipment under Test

2.1 Test Manner

- a. The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.
- b. Power Table as below:

802.11a

Channel	Frequency (MHz)	Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 149	5745 MHz	17.88	18.02	17.78	17.82	18.05	18.31	18.11	17.68
CH 157	5785 MHz	18.87	18.22	18.35	18.51	18.42	18.11	18.24	18.23
CH 165	5825 MHz	18.03	18.53	18.32	18.25	18.14	18.56	17.9	18.33

802.11b

Channel	Frequency (MHz)	Data Rate			
		1 Mbps	2 Mbps	5.5 Mbps	11 Mbps
CH 01	2412 MHz	16.5	16.15	15.83	16.81
CH 06	2437 MHz	16.64	16.27	16.14	16.08
CH 11	2462 MHz	16.22	16.58	16.31	15.9

802.11g

Channel	Frequency (MHz)	Data Rate						
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	54 Mbps
CH 01	2412 MHz	20.4	19.87	19.88	20.37	19.85	19.97	20.12
CH 06	2437 MHz	20.33	19.98	19.95	19.98	19.96	20.15	20.17
CH 11	2462 MHz	20.37	19.76	20.27	19.86	19.83	20.14	19.86

- c. The 802.11a/b/g are set in 6Mbps, 11Mbps and 6Mbps showing highest power.
- d. For spurious emission below 1GHz, only one channel of each application was tested because it is not related to channel selection.
- e. The EUT is programmed to transmit signal continuously for all testings.
- f. Frequency range investigated: conduction 150 kHz to 30 MHz, radiation 30 MHz to 25000MHz.

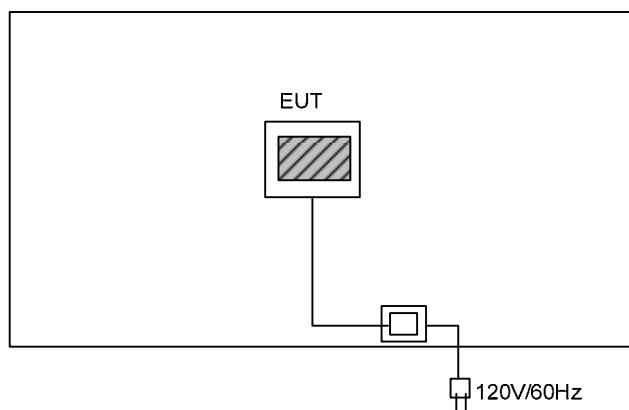
2.2 Test Mode

Application				
Radiated Emission	802.11b	802.11g	802.11a	BT
	Mode 1: CH01_2412 MHz	Mode 4: CH01_2412 MHz	Mode 7: CH149_5745 MHz	Mode 10: CH00_2402 MHz
	Mode 2: CH06_2437 MHz	Mode 5: CH06_2437 MHz	Mode 8: CH157_5785 MHz	Mode 11: CH39_2441 MHz
	Mode 3: CH11_2462 MHz	Mode 6: CH11_2462 MHz	Mode 9: CH165_5825 MHz	Mode 12: CH78_2480 MHz
Conducted Emission	Mode 1: WLAN Link Mode + Adapter			

2.3 Ancillary Equipment List

N/A

2.4 Connection Diagram of Test System





3. RF Utility

The programmed "CRTU" is installed in EUT to provide channel selection, power level, data rate and the application type. "CRTU" can send transmitting signal for all testings.



4. General Information of Test

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
TEL : 886-3-327-3456
FAX : 886-3-318-0055
Test Site No : CO04-HY, 03CH06-HY

4.1 Test Voltage

120V/ 60Hz

4.2 Standard for Methods of Measurement

ANSI C63.4-2003

4.3 Test in Compliance with

47 CFR Part 15 Subpart C

4.4 Frequency Range Investigated

- a. Conduction: from 150 kHz to 30 MHz
- b. Radiation: from 30 MHz to 25000 MHz

4.5 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.



5. Test Data and Test Result

5.1 List of Measurements and Examinations

The Emission Mode: Wireless LAN

FCC Rule	Description of Test	Result
15.207	Conducted Emission	Pass
15.247(a)(2)	6dB & 20dB Bandwidth	Pass
15.247(b)	Maximum Peak Output Power	Pass
15.209(a)	Radiated Emission	Pass
15.247(c)	100kHz Bandwidth of Frequency Band Edges	Pass
15.247(d)	Power Spectral Density	Pass
15.203 15.247(b)(4)	Antenna Requirement	Pass

**The Emission Mode: Bluetooth**

FCC Rule	Description of Test	Result
15.207	Conducted Emission	Pass
15.247(a)(1)	Hopping Channel Bandwidth	Pass
15.247(a)(1)	Hopping Channel Separation	Pass
15.247(a)(1)(iii)	Number of Hopping Frequency Used	Pass
15.247(a)(1)(iii)	Dwell Time of Each Frequency	Pass
15.247(b)	Output Power	Pass
15.247(c)	100kHz Bandwidth of Frequency Band Edges	Pass
15.209(a)	Radiated Emission	Pass
15.203 15.247(b)(4)	Antenna Requirement	Pass

5.2 6dB Bandwidth Measurement

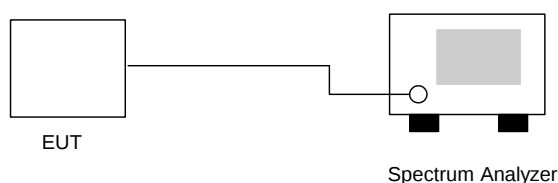
5.2.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.2.2 Test Procedure :

1. The transmitter output was connected to the spectrum analyzer directly.
2. Set RBW of spectrum analyzer to 100kHz and VBW to 100kHz.
3. The 6 dB bandwidth is defined as the frequency range where the power is higher than the peak power minus 6dB.

5.2.3 Test Setup Layout :



5.2.4 Test Result :

- Application Type : WLAN 802.11b/g/a
- Temperature : 24°C
- Relative Humidity : 51%
- Test Enginner : Andy

802.11b

Channel	Frequency (MHz)	6dB Emission bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
01	2412	8.11	> 0.5MHz	Mode 1
06	2437	8.14	> 0.5MHz	Mode 2
11	2462	8.11	> 0.5MHz	Mode 3

802.11g

Channel	Frequency (MHz)	6dB Emission bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
01	2412	16.54	> 0.5MHz	Mode 4
06	2437	16.54	> 0.5MHz	Mode 5
11	2462	16.54	> 0.5MHz	Mode 6

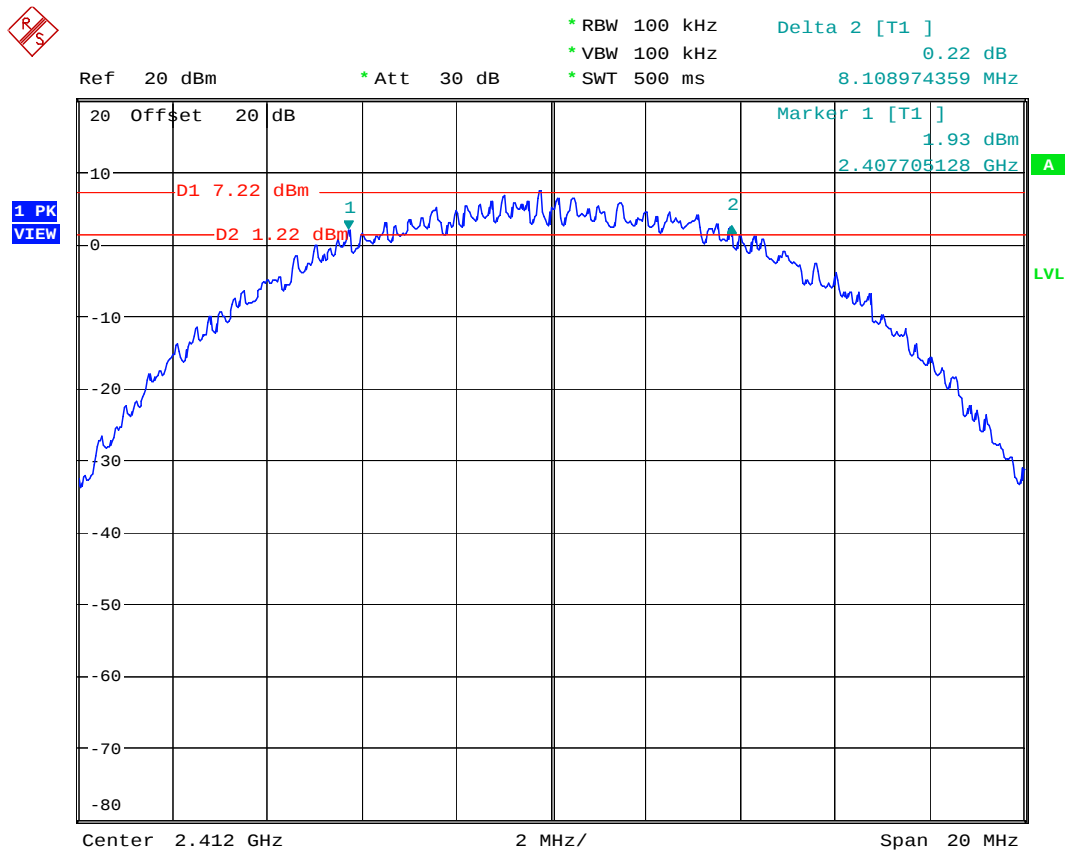
**FCC TEST REPORT****Report No. : FR731320****802.11a**

Channel	Frequency (MHz)	6dB Emission bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
149	5745	16.38	> 0.5MHz	Mode 7
157	5785	16.38	> 0.5MHz	Mode 8
165	5825	16.51	> 0.5MHz	Mode 9



5.2.5 6dB Bandwidth

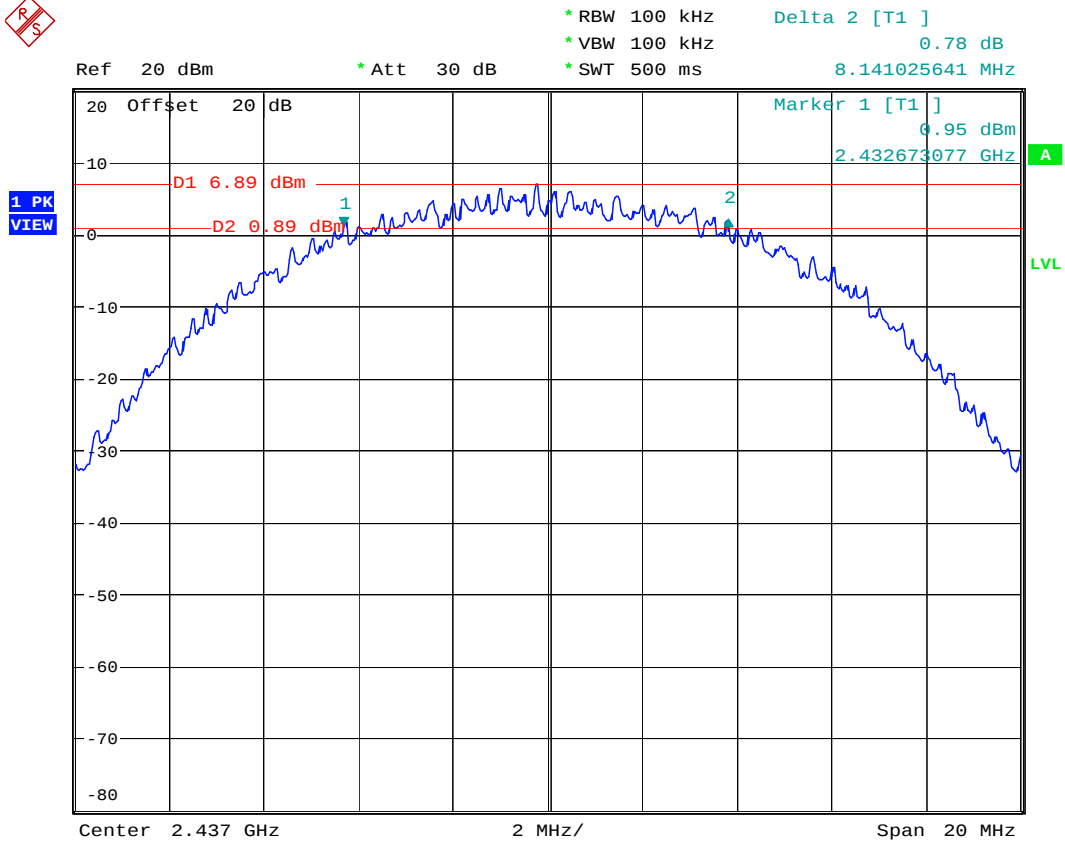
Mode 1



Date: 29.MAR.2007 16:00:43



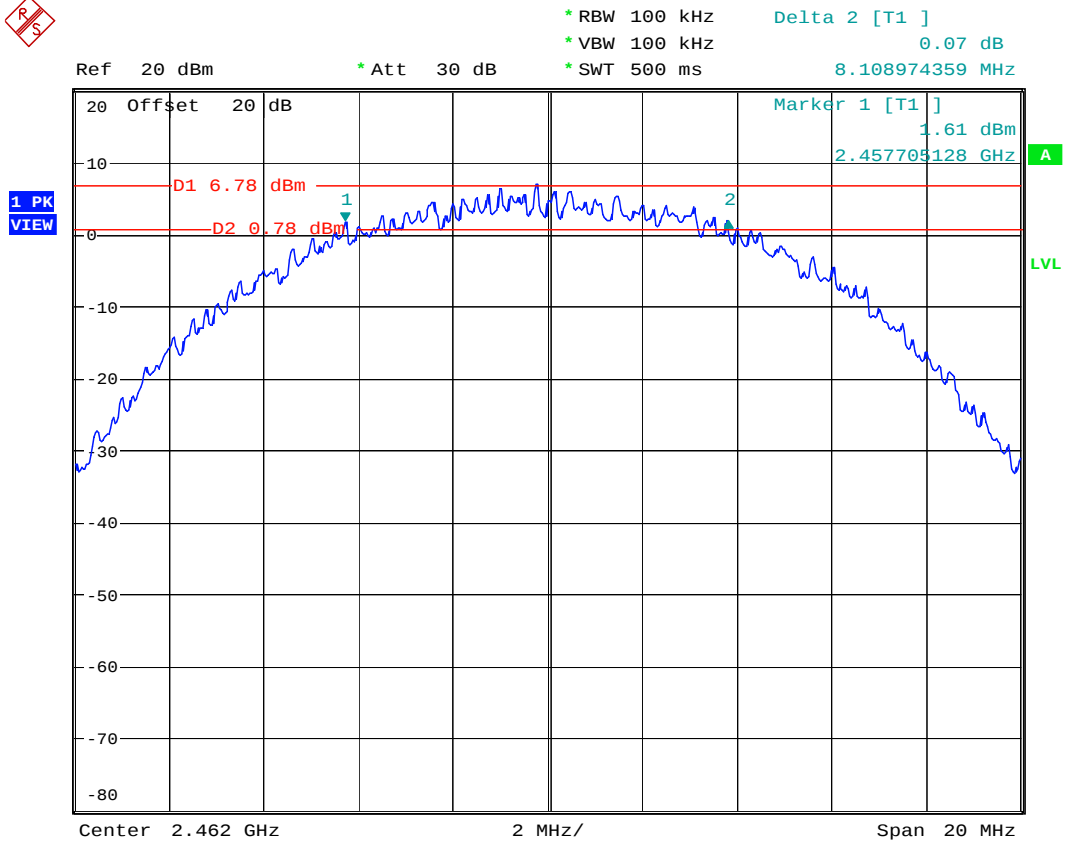
Mode 2



Date: 29.MAR.2007 16:03:50



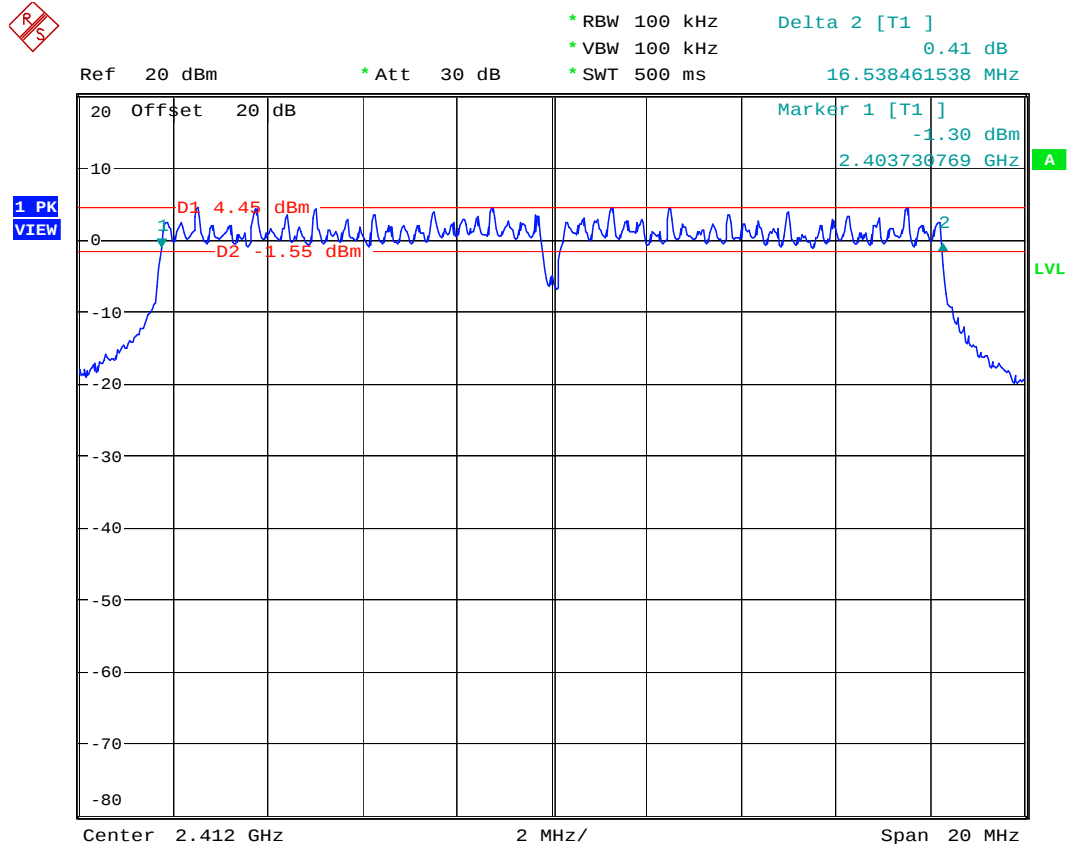
Mode 3



Date: 29.MAR.2007 16:06:43



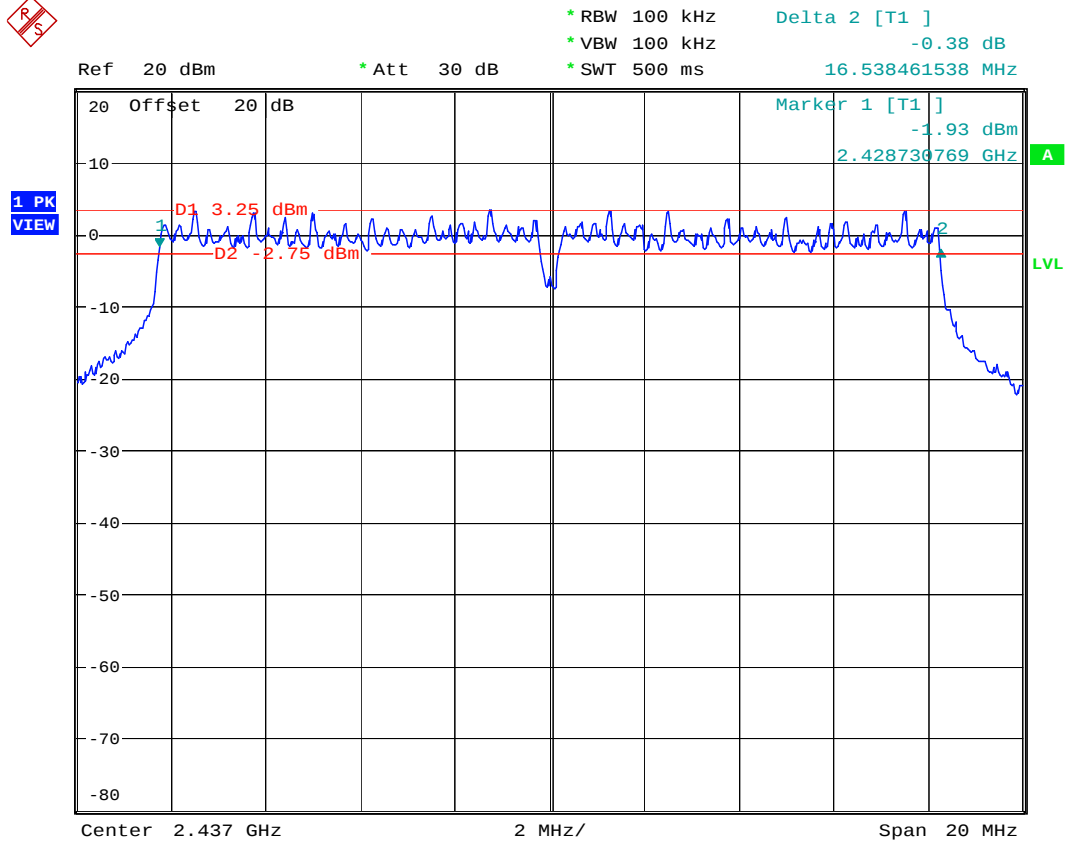
Mode 4



Date: 29.MAR.2007 16:31:17



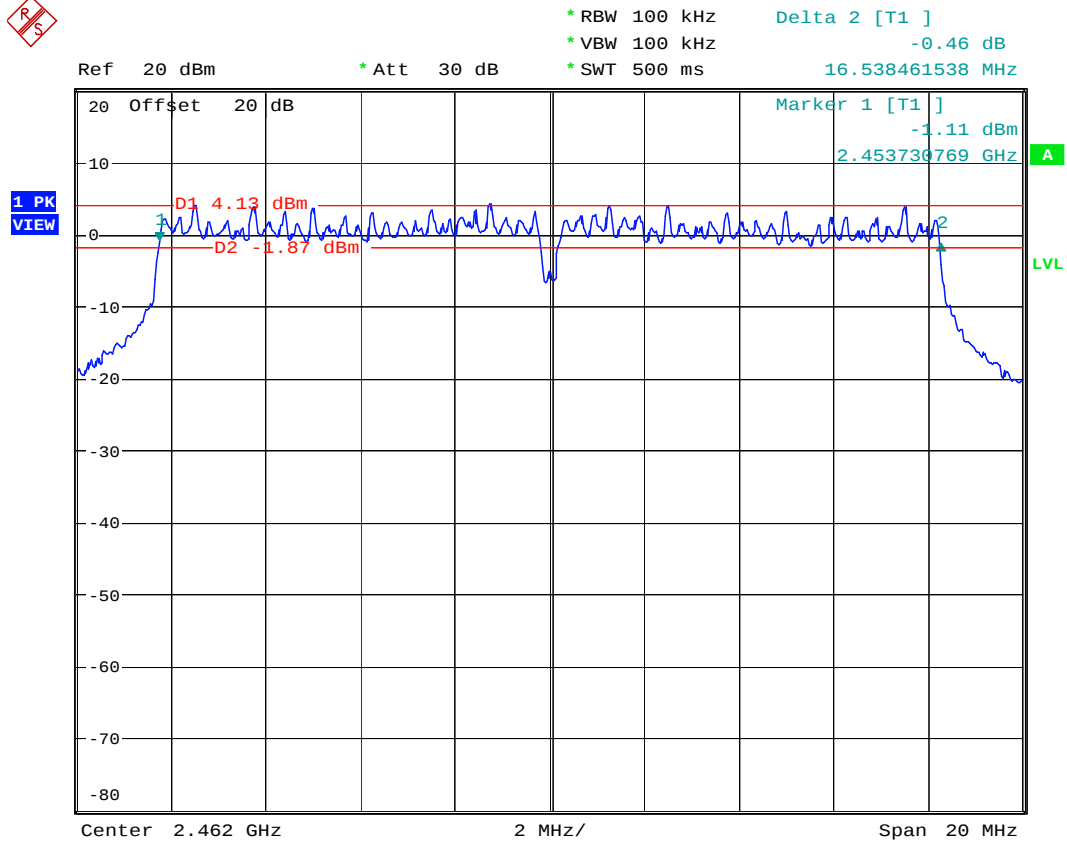
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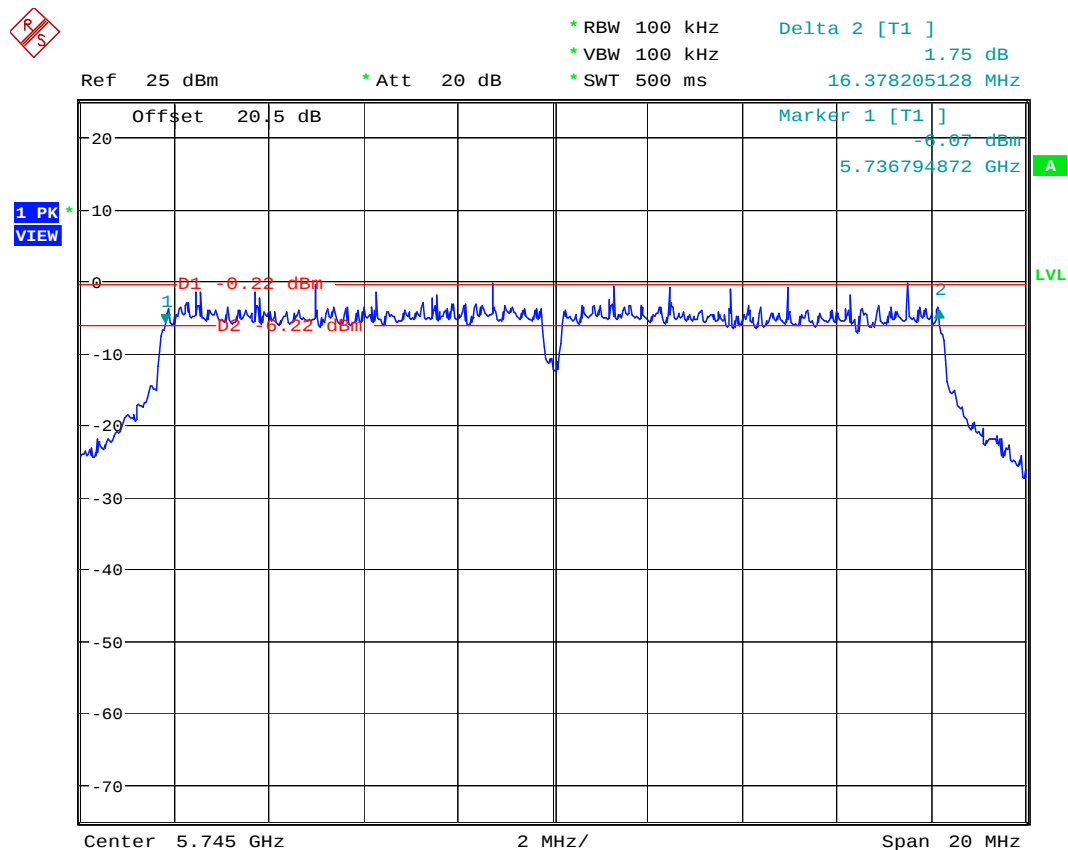


Mode 6



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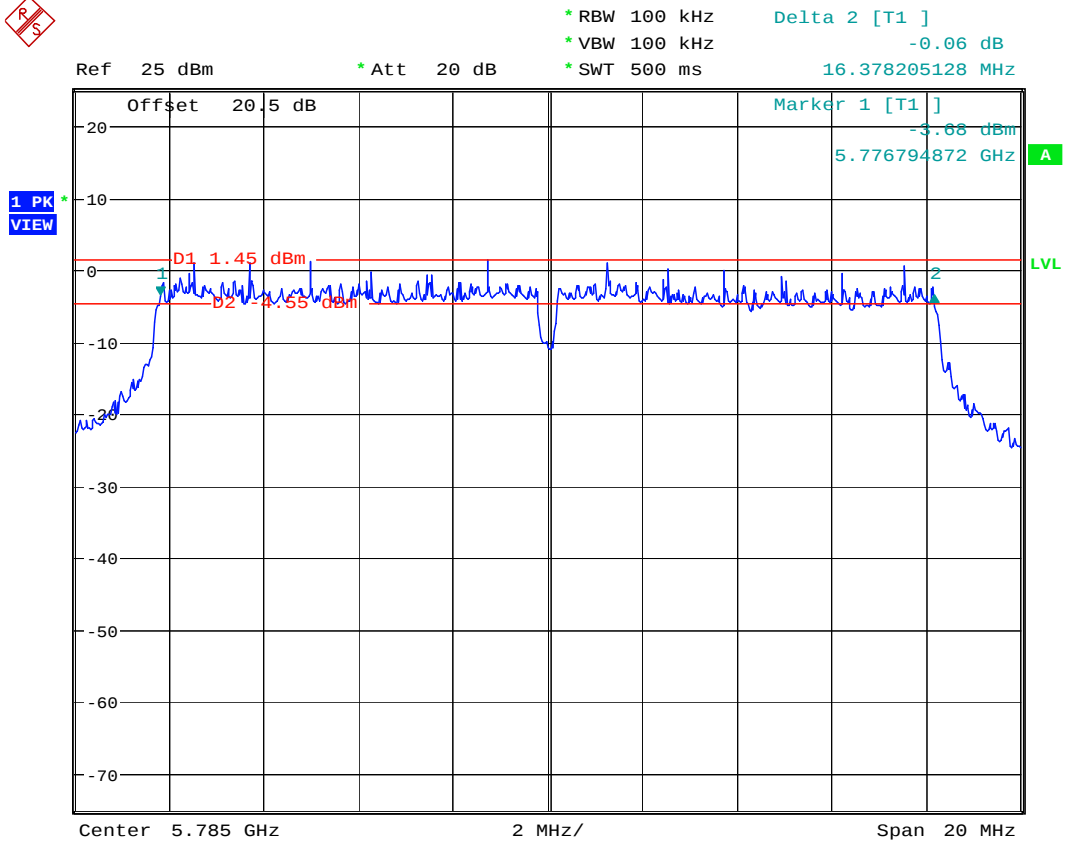
Mode 7



Date: 16.APR.2007 07:32:00



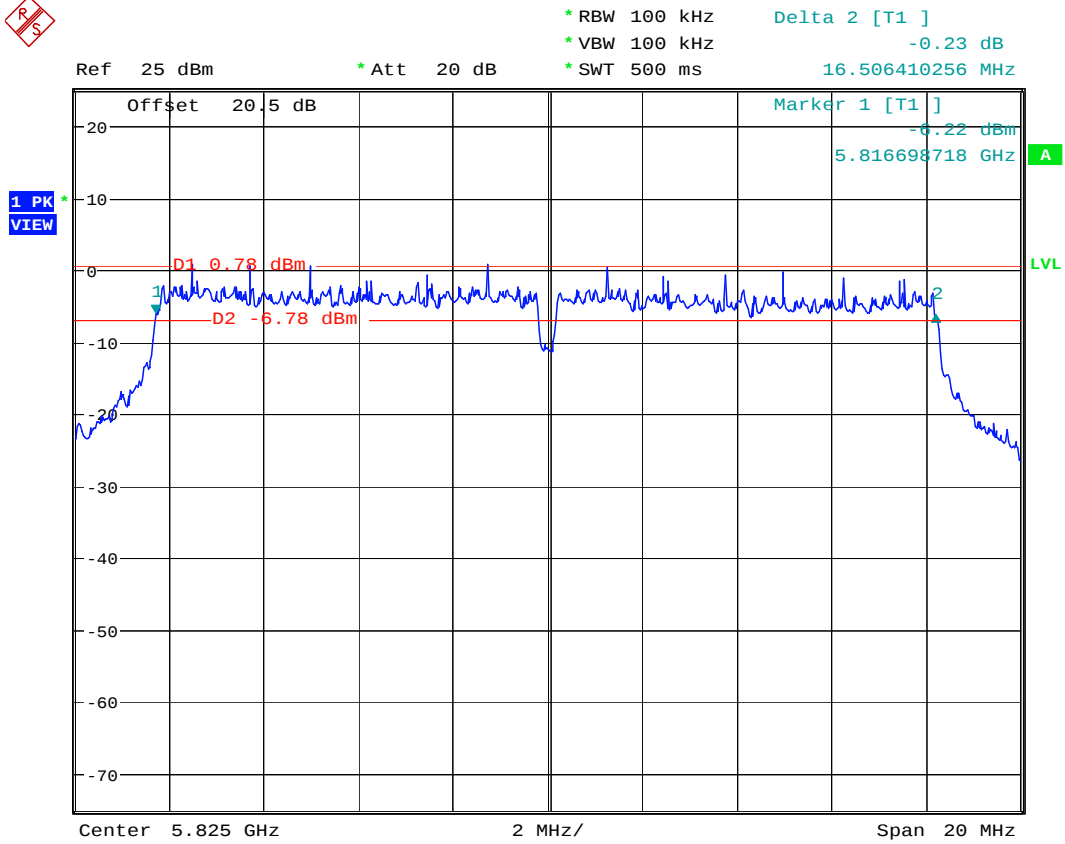
Mode 8



Date: 16.APR.2007 07:33:11



Mode 9



Date: 16.APR.2007 07:34:08

5.3 Power Spectral Density Measurement

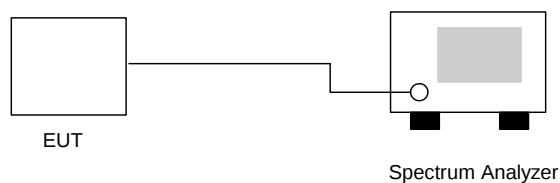
5.3.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.3.2 Test Procedure :

1. The transmitter output was connected to spectrum analyzer directly.
2. The spectrum analyzer's resolution bandwidth was set at 3kHz RBW and 30kHz VBW as that of the fundamental frequency. Set the sweep time=span/3kHz.
3. The power spectral density was measured and recorded.
4. The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

5.3.3 Test Setup Layout :



5.3.4 Test Result :

- Application Type : 802.11b/g/a
- Temperature : 24°C
- Relative Humidity : 51%
- Test Enginner : Andy

802.11b

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
01	2412	-9.79	8	Mode 1
06	2437	-9.80	8	Mode 2
11	2462	-11.22	8	Mode 3

802.11g

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
01	2412	-14.84	8	Mode 4
06	2437	-11.02	8	Mode 5
11	2462	-14.80	8	Mode 6

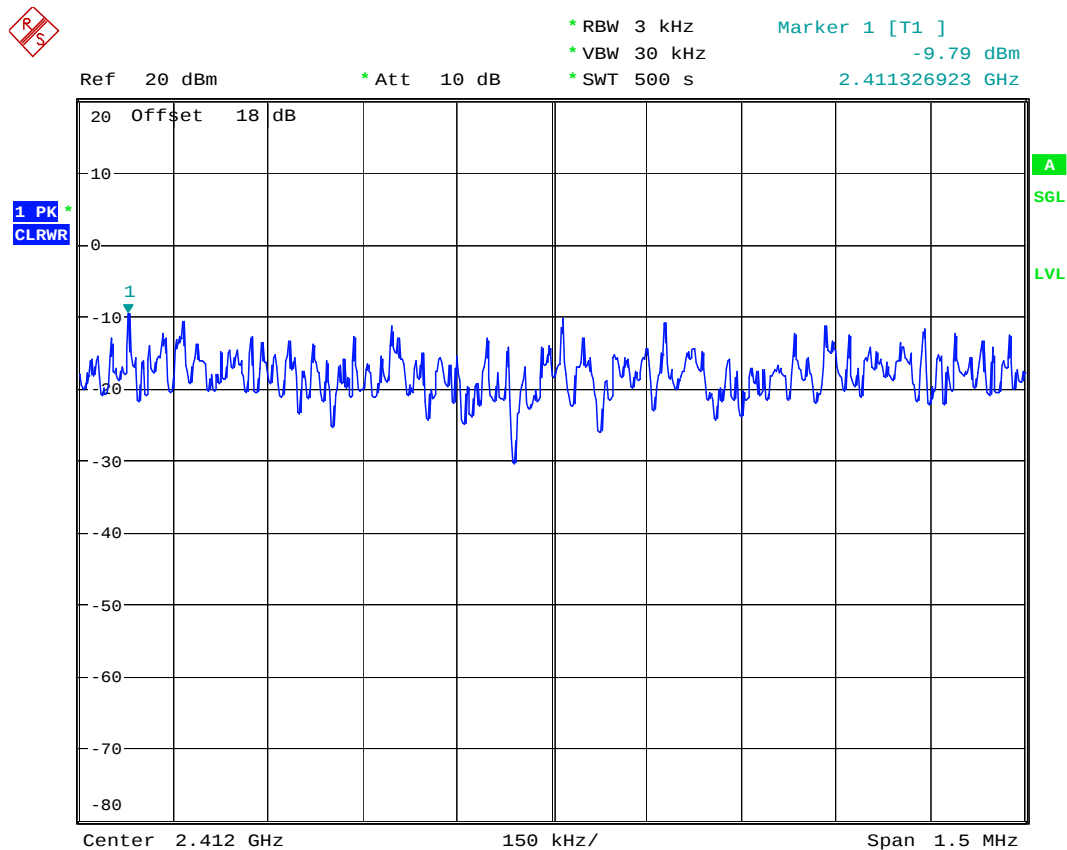
802.11a

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
149	5745	-14.21	8	Mode 7
157	5785	-13.09	8	Mode 8
165	5825	-13.48	8	Mode 9



5.3.5 Power Spectral Density

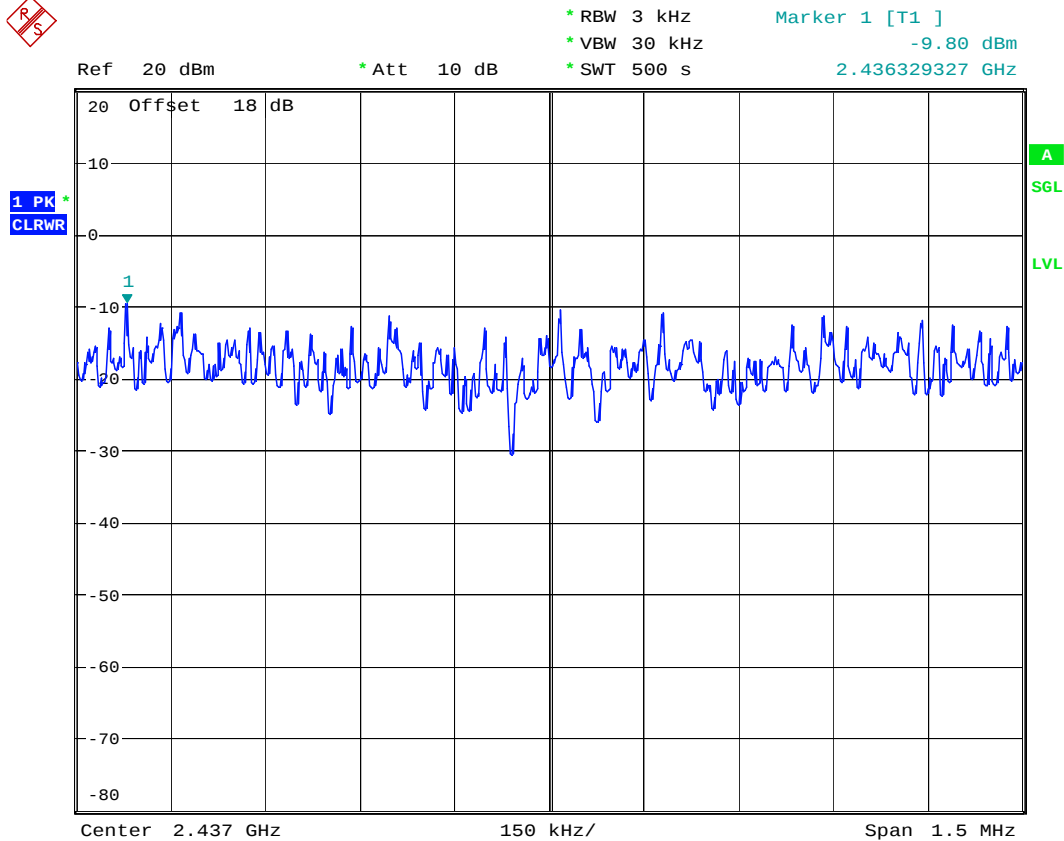
Mode 1



Date: 29.MAR.2007 23:42:38



Mode 2



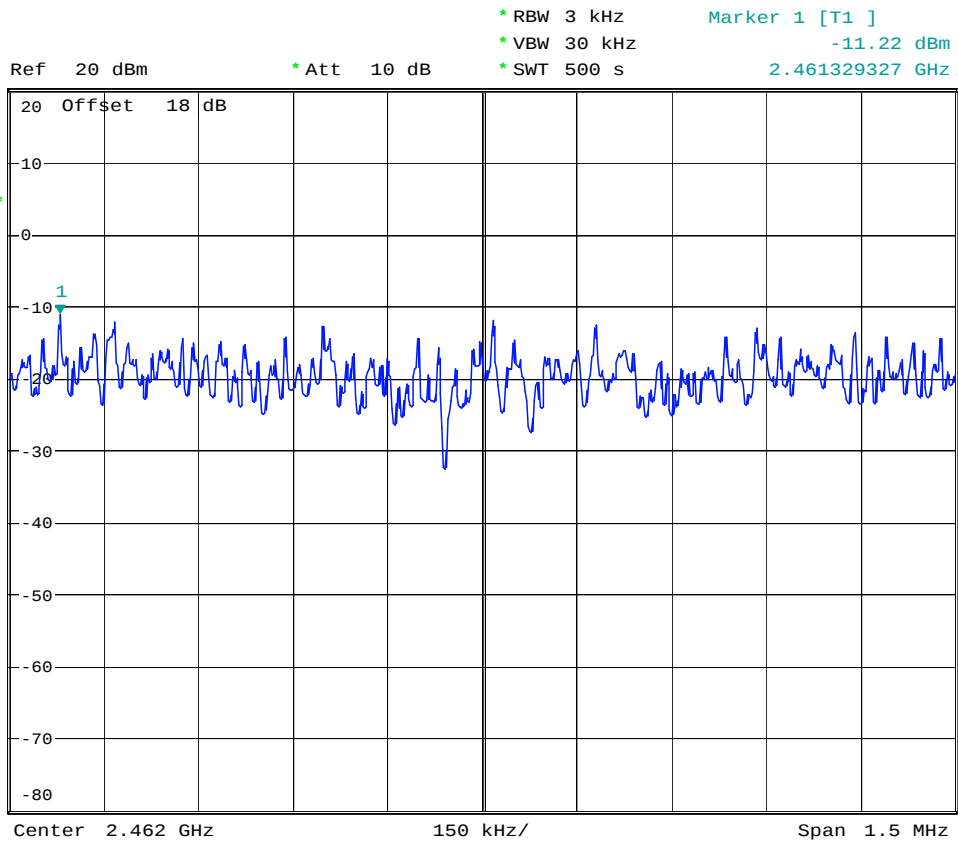
Date: 29.MAR.2007 23:33:07



Mode 3



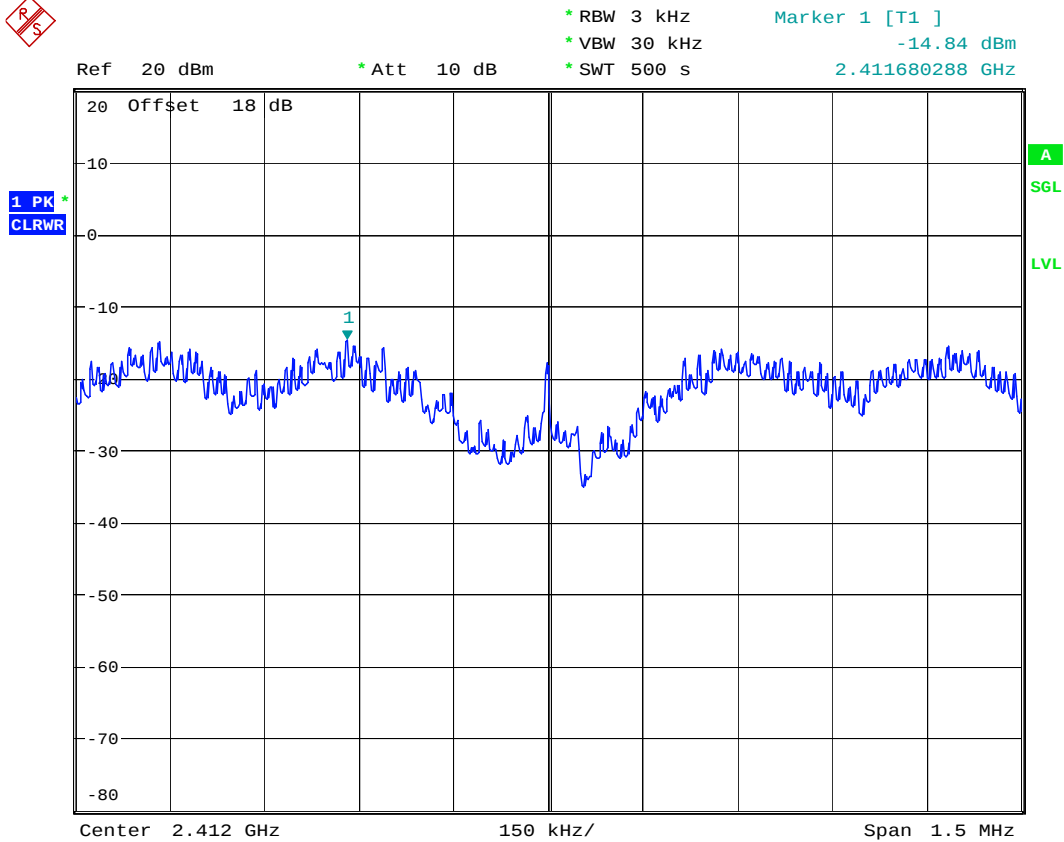
1 PK
CLRWR



Date: 29.MAR.2007 23:23:11



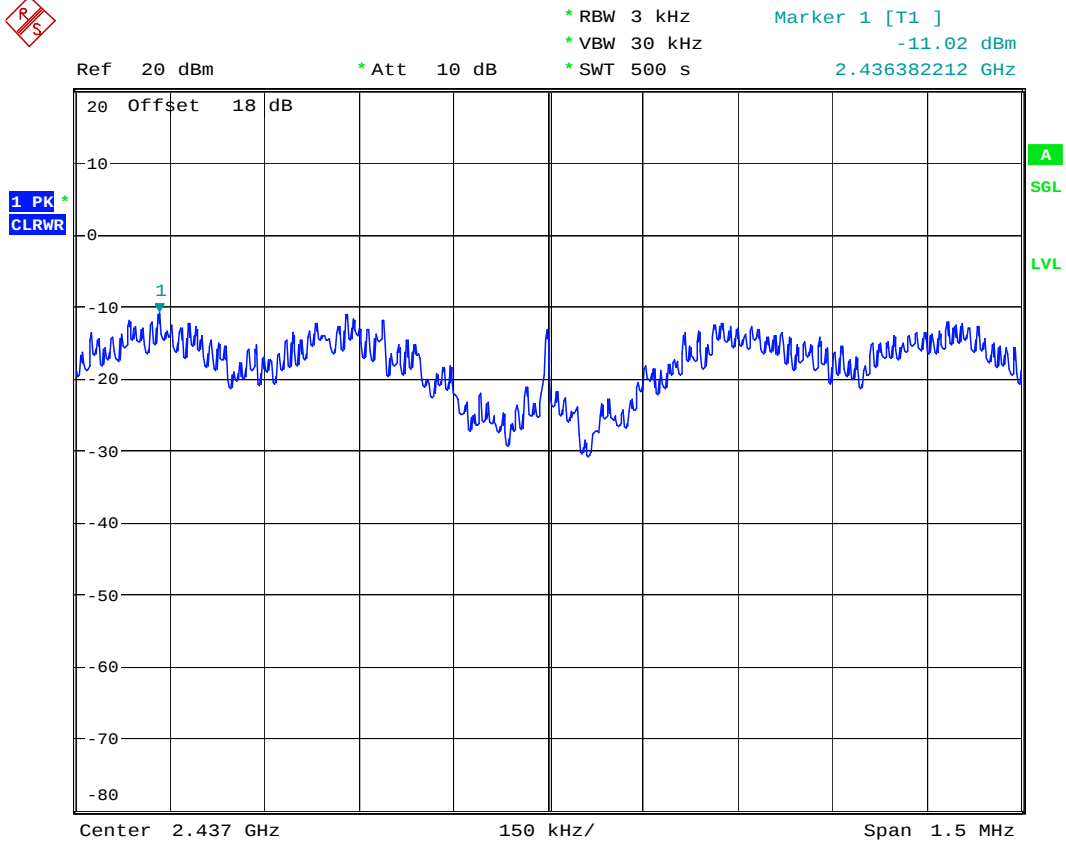
Mode 4



Date: 29.MAR.2007 23:59:03



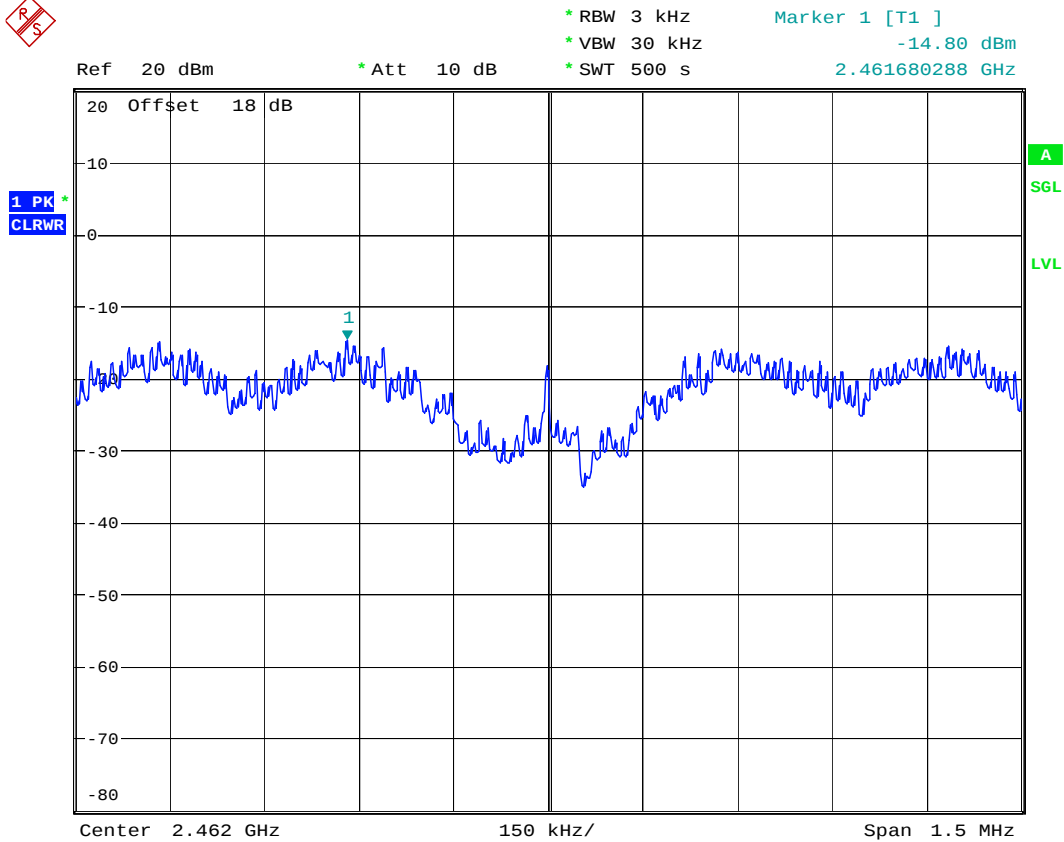
Mode 5



Date: 30.MAR.2007 00:09:00



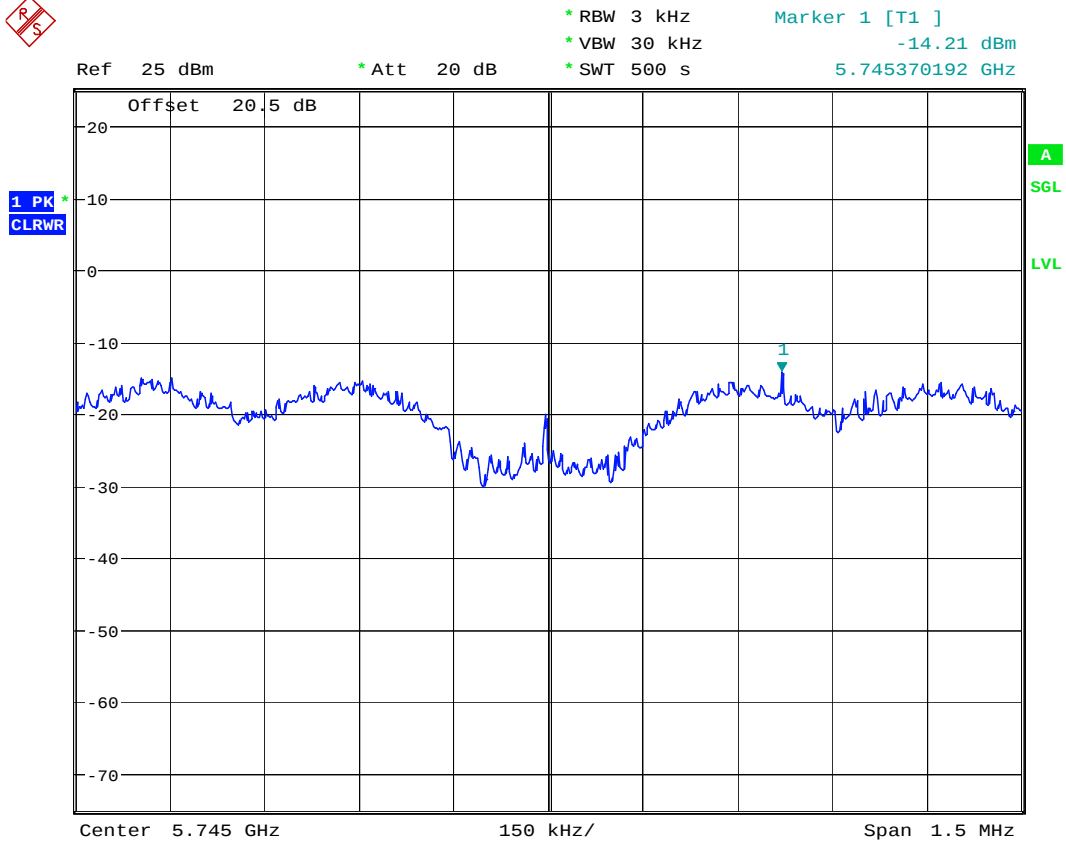
Mode 6



Date: 30.MAR.2007 00:20:16



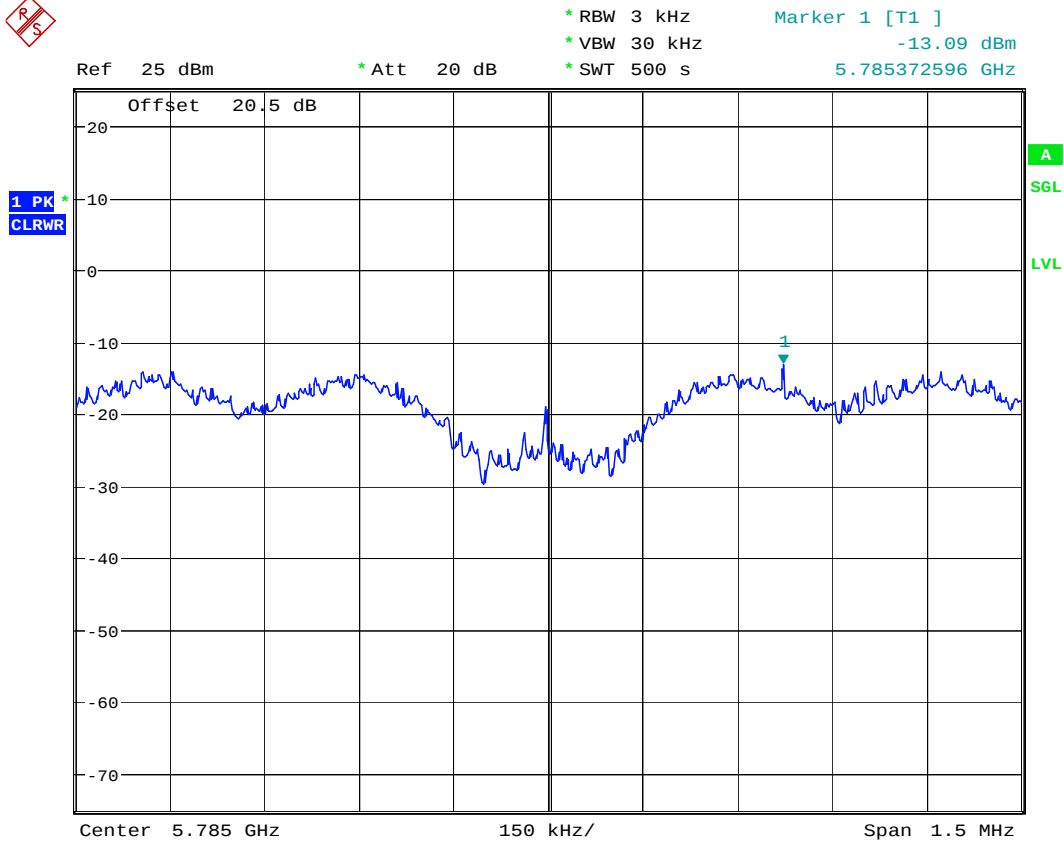
Mode 7



Date: 16.APR.2007 07:43:21



Mode 8



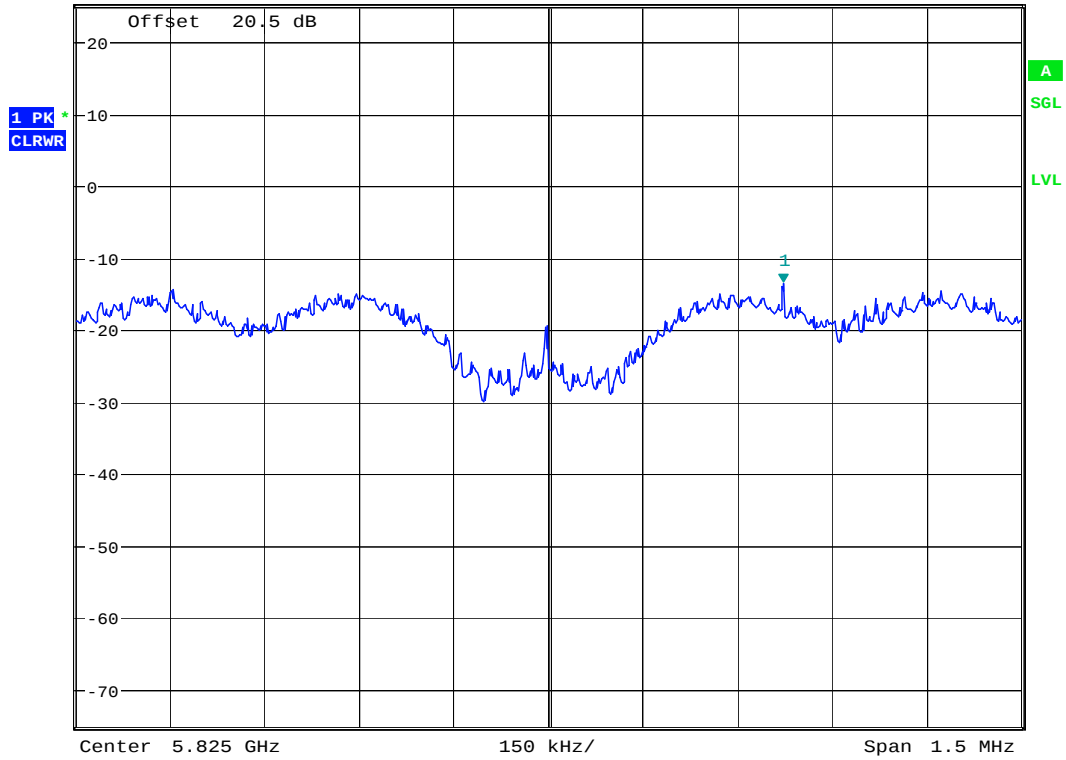
Date: 16.APR.2007 07:59:36



Mode 9



Ref 25 dBm * Att 20 dB * RBW 3 kHz Marker 1 [T1] -13.48 dBm
* VBW 30 kHz * SWT 500 s 5.825372596 GHz



Date: 16.APR.2007 08:26:31



5.4 Band Edges Measurement

5.4.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.4.2 Test Procedure :

1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
2. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100 kHz bandwidth from band edge.
3. The band edges was measured and recorded.

5.4.3 Test Result :

- Application Type : WLAN 802.11a/b/g and BT
- Temperature : 24C
- Relative Humidity : 51%
- Test Enginner : Andy
- Test Result in WLAN lower band (802.11b/g) : PASS
- Test Result in WLAN higher band (802.11b/g) : PASS
- Test Result in WLAN lower band (802.11a Band III) : PASS
- Test Result in WLAN higher band (802.11a Band III) : PASS
- Test Result in BT lower band : PASS
- Test Result in BT higher band : PASS

5.4.4 Note on Band Edge Emission :

➤WLAN 802.11b

CH01 (Horizontal)

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2390.00	65.04	-8.96	74.00	66.49	30.26	3.75	35.46	100	360	Peak
2390.00	52.77	-1.23	54.00	54.22	30.26	3.75	35.46	100	215	Average

CH01 (Vertical)

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2390.00	66.13	-7.87	74.00	67.58	30.26	3.75	35.46	100	360	Peak
2390.00	51.16	-2.84	54.00	52.61	30.26	3.75	35.46	100	308	Average

**CH11 (Horizontal)**

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.50	60.32	-13.68	74.00	61.67	30.29	3.86	35.51	100	360	Peak
2483.50	52.18	-1.82	54.00	53.54	30.29	3.86	35.51	126	232	Average

CH11 (Vertical)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.50	59.76	-14.24	74.00	51.50	30.29	3.86	35.51	100	360	Peak
2483.50	50.14	-3.86	54.00	61.12	30.29	3.86	35.51	126	214	Average

➤WLAN 802.11g**CH01 (Horizontal)**

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2390.00	70.44	-3.56	74.00	71.89	30.26	3.75	35.46	100	360	Peak
2390.00	53.92	-0.08	54.00	55.37	30.26	3.75	35.46	100	218	Average

CH01 (Vertical)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2390.00	72.05	-1.95	74.00	73.49	30.26	3.75	35.46	100	360	Peak
2390.00	52.51	-1.49	54.00	53.96	30.26	3.75	35.46	100	306	Average

CH11 (Horizontal)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.50	60.32	-12.98	74.00	61.68	30.29	3.86	35.51	100	0	Peak
2483.50	41.02	-13.68	54.00	42.38	30.29	3.86	35.51	100	232	Average

**CH11 (Vertical)**

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.50	55.49	-18.51	74.00	56.85	30.29	3.86	35.51	100	0	Peak
2483.50	39.19	-14.81	54.00	40.55	30.29	3.86	35.51	100	304	Average

➤BT**CH00 (Horizontal)**

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2390.00	47.81	-26.19	74.00	49.26	30.26	3.75	35.46	100	360	Peak
2390.00	37.90	-16.10	54.00	39.35	30.26	3.75	35.46	169	349	Average

CH00 (Vertical)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2390.00	49.30	-24.70	74.00	50.74	30.26	3.75	35.46	100	360	Peak
2390.00	38.14	-15.86	54.00	39.59	30.26	3.75	35.44	100	24	Average

CH78 (Horizontal)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.50	58.94	-15.06	74.00	60.30	30.29	3.86	35.51	100	360	Peak
2483.50	46.28	-7.72	54.00	47.64	30.29	3.86	35.51	100	317	Average

CH78 (Vertical)

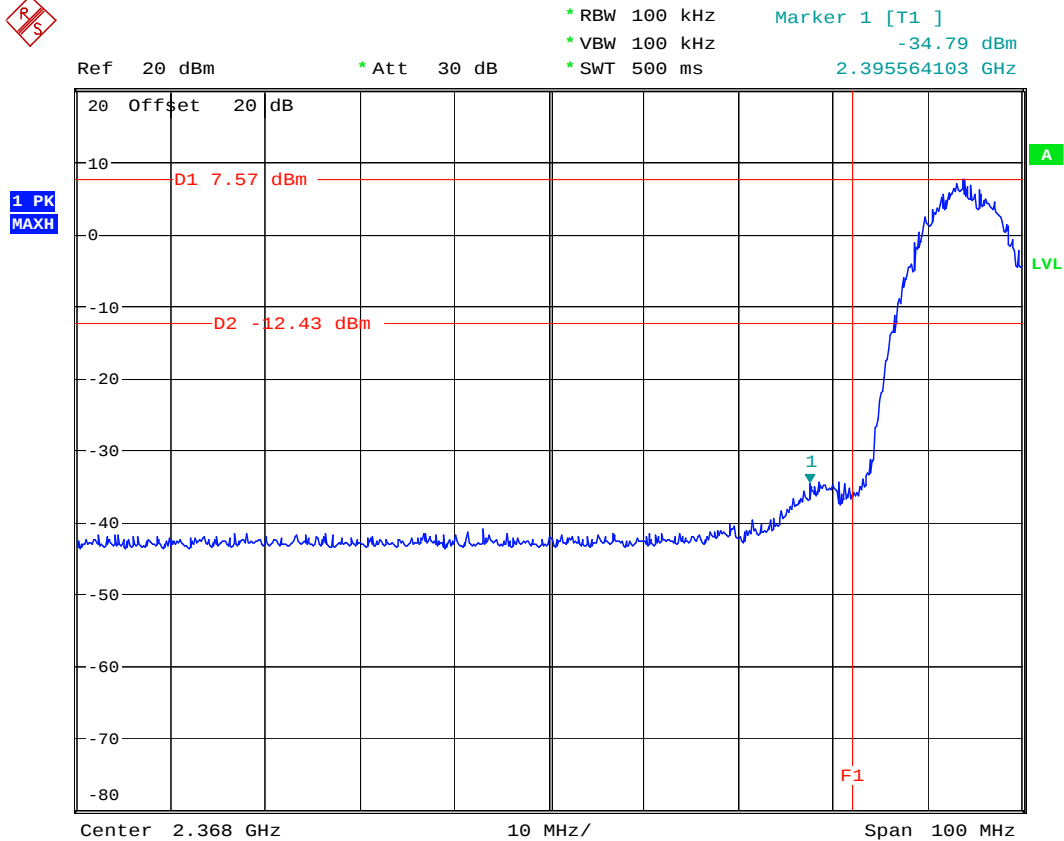
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.50	55.85	-18.15	74.00	57.21	30.29	3.86	35.51	100	360	Peak
2483.50	49.37	-4.63	54.00	50.73	30.29	3.86	35.51	100	332	Average



5.4.5 20dB Band Edge

WLAN 802.11b

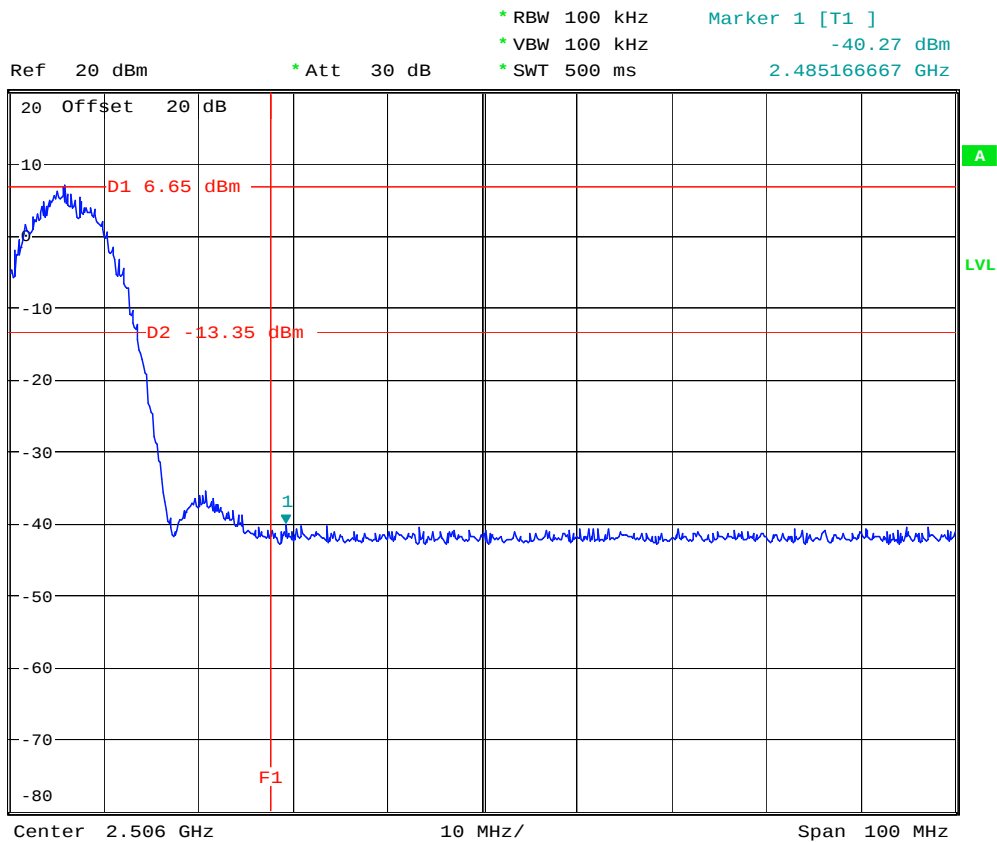
CH01



Date: 29.MAR.2007 16:11:34



CH11

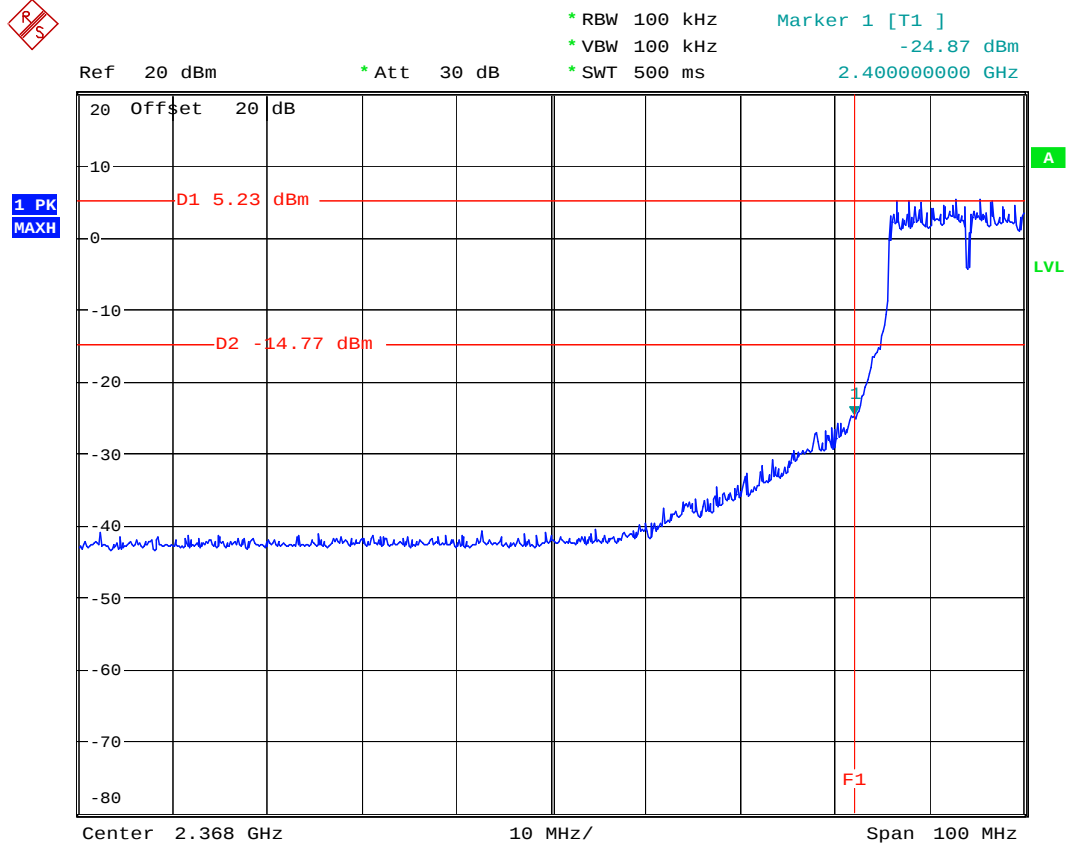


Date: 29.MAR.2007 16:09:48



WLAN 802.11g

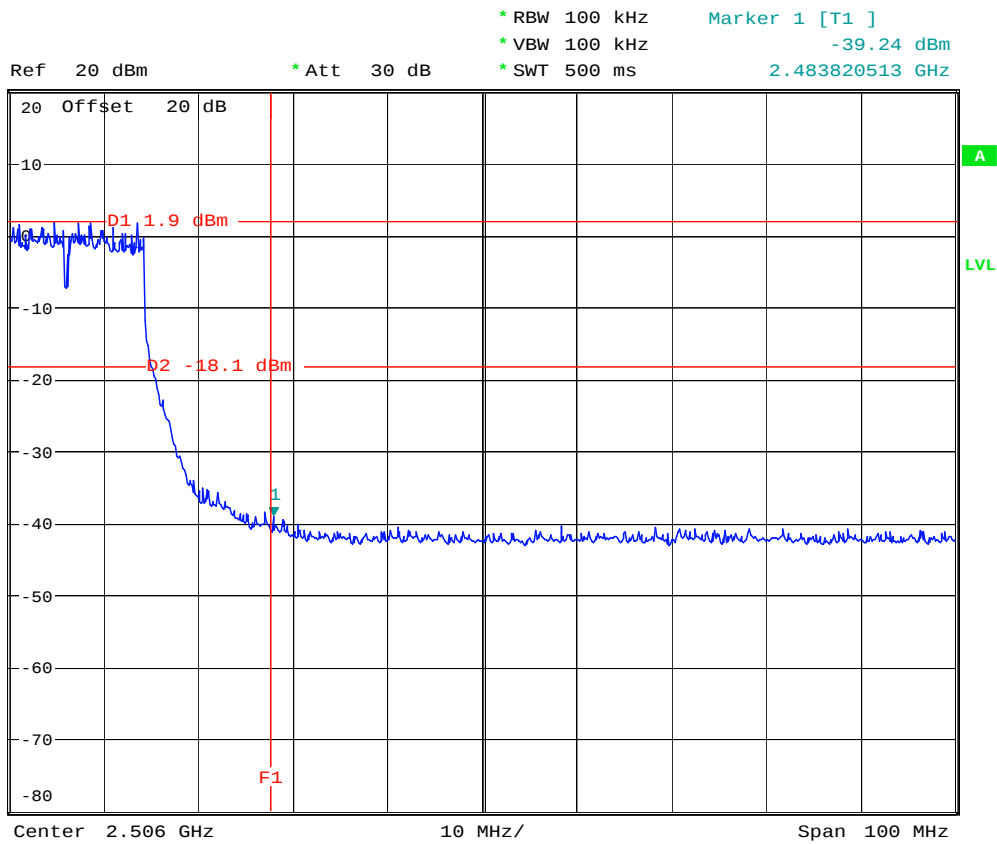
CH01



Date: 29.MAR.2007 16:18:47



CH11

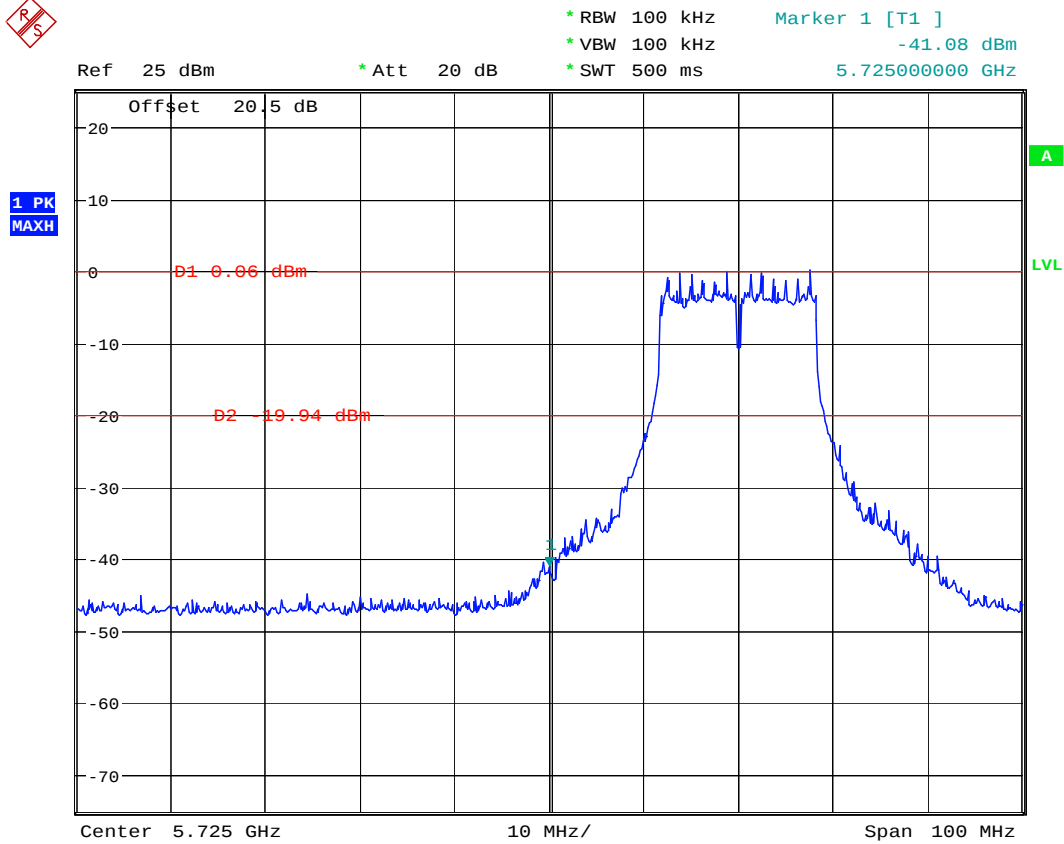


Date: 29.MAR.2007 19:27:37



WLAN 802.11a

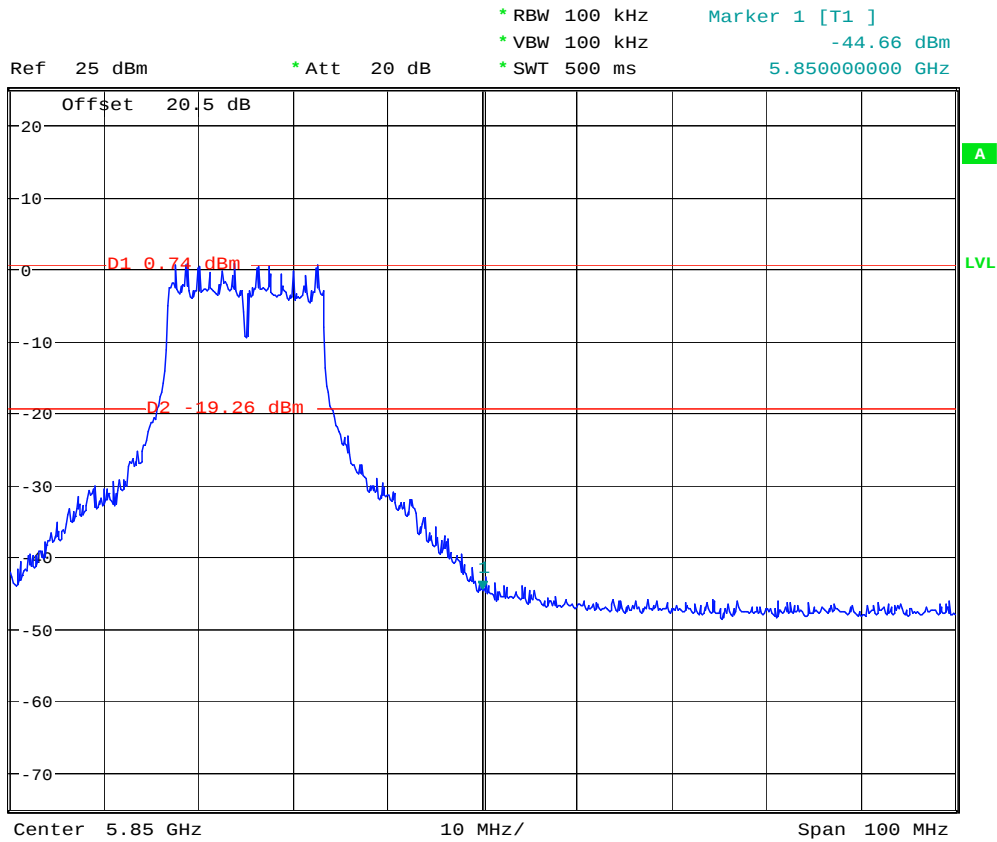
CH149



Date: 2.APR.2007 15:54:01



CH165

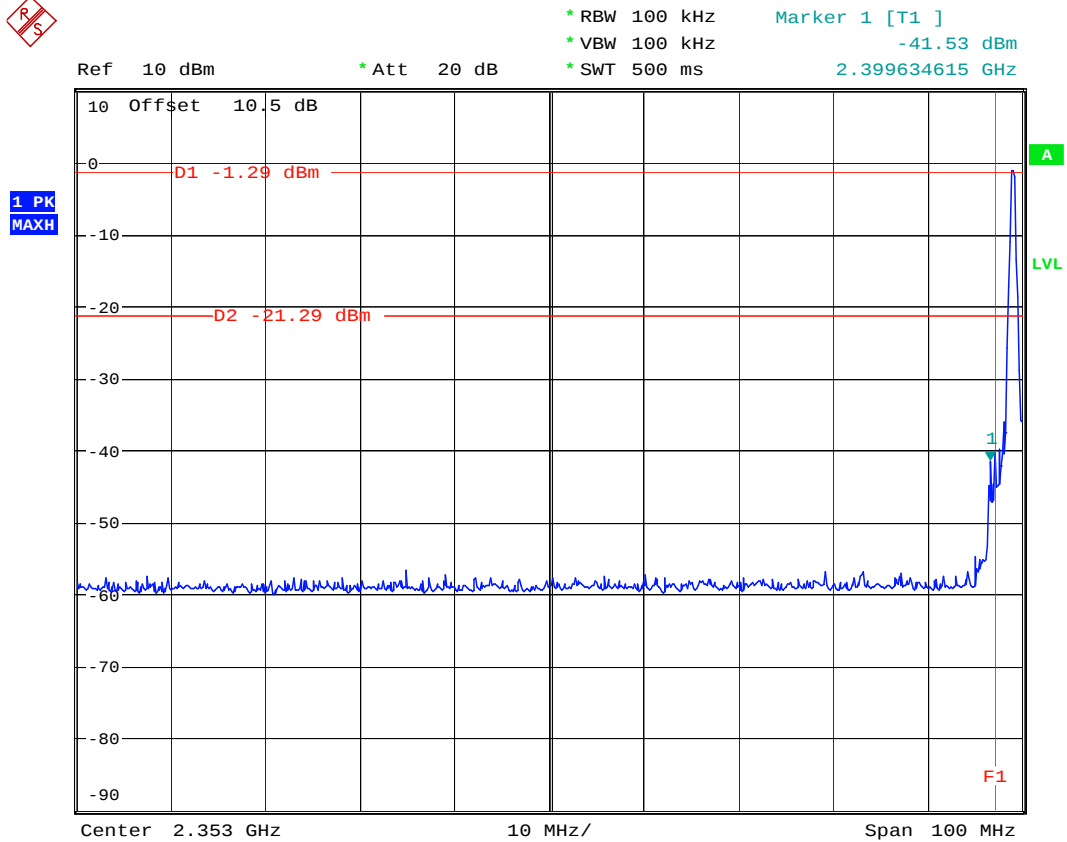


Date: 2.APR.2007 15:55:22



Bluetooth

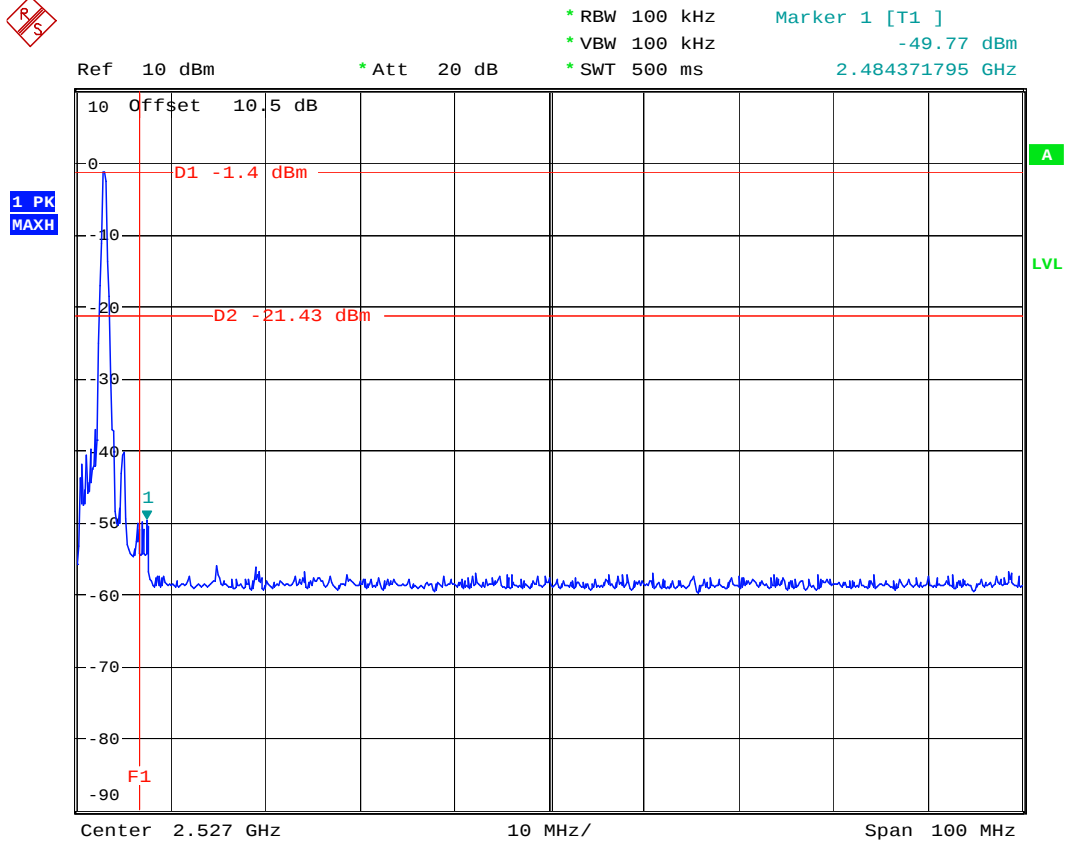
CH00



Date: 29.MAR.2007 14:32:29



CH78



Date: 29.MAR.2007 14:14:59

5.5 Hopping Channel Separation

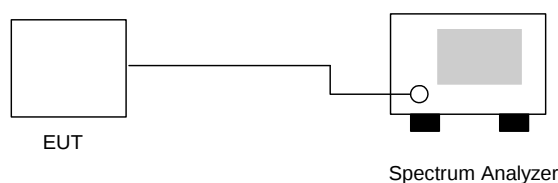
5.5.1 Measuring Instruments :

As described in chapter 9 of this test report.

5.5.2 Test Procedure :

1. The output of EUT was connected to the spectrum analyzer by a low loss cable..
2. Set RBW of spectrum analyzer to 30kHz and VBW to 100kHz.
3. The Hopping Channel Separation is defined as the channel is separated with the next channel.

5.5.3 Test Setup Layout :



5.5.4 Test Result : The spectrum analyzer plots are attached as below

- Application Type : BT
- Temperature : 24°C
- Relative Humidity : 51%
- Test Enginner : Andy

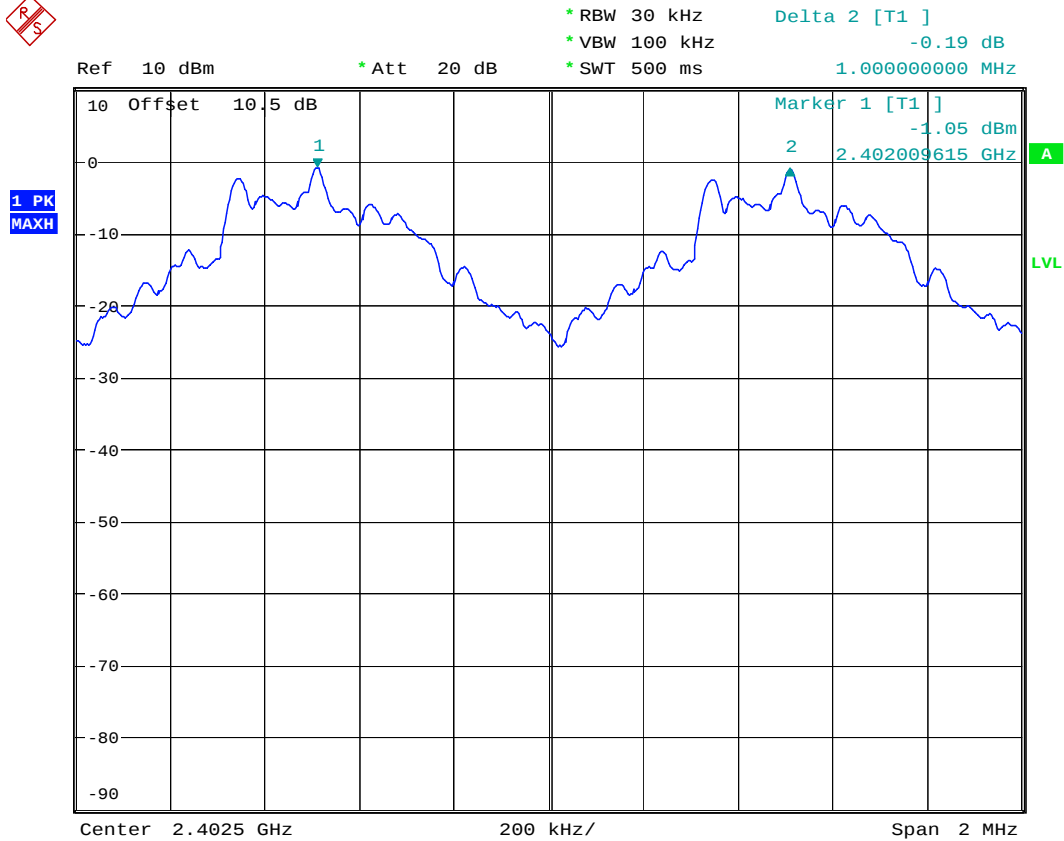
		Carrier Frequency		Limits	Plot
Channel	Frequency (MHz)	Separation (MHz)		(MHz)	Ref. No.
00	2402	1.000		0.832	Mode 1
39	2441	1.000		0.833	Mode 2
78	2480	1.000		0.867	Mode 3

Note: Limits =25kHz or the 20dB bandwidth of the hopping channel, which ever is greater



5.5.5 Hopping Channel Separation

Mode 1



Date: 29.MAR.2007 14:18:18



Mode 2



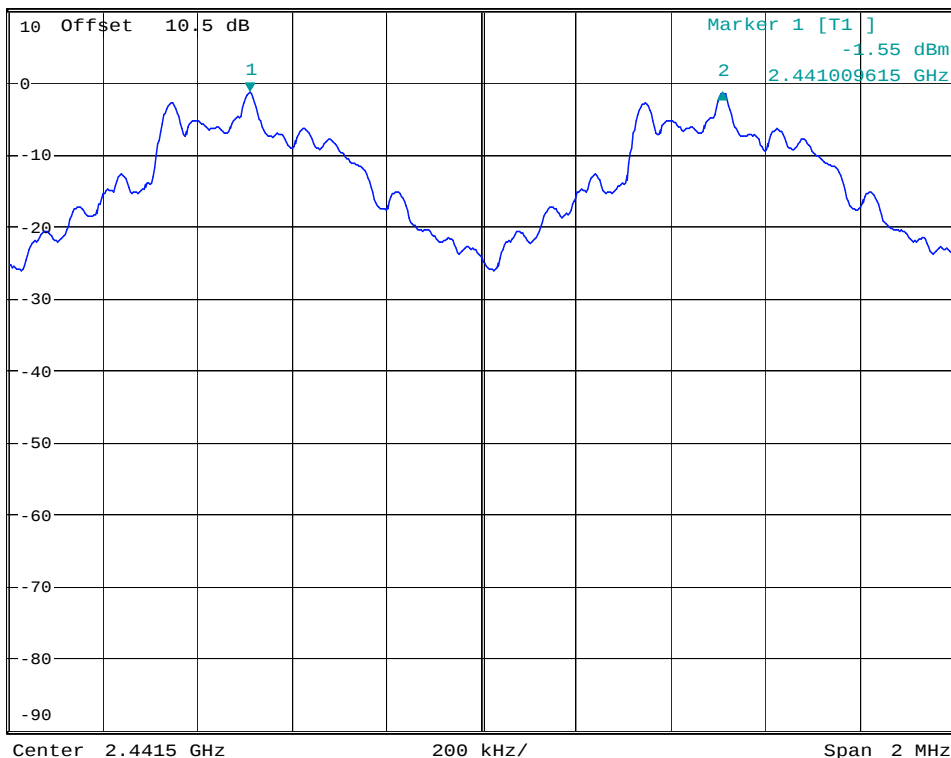
* RBW 30 kHz
* VBW 100 kHz
* SWT 500 ms

Delta 2 [T1]
-0.02 dB
1.000000000 MHz

Ref 10 dBm

* Att 20 dB

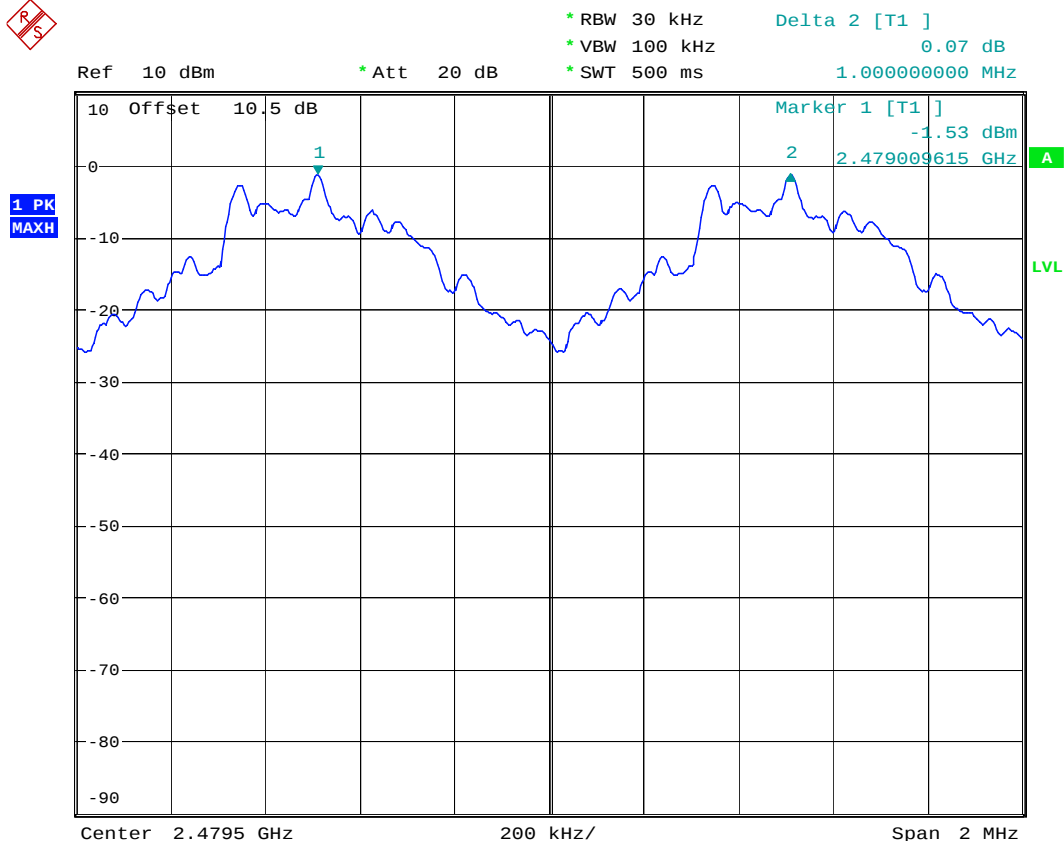
1 PK
MAXH



Date: 29.MAR.2007 14:18:43



Mode 3



Date: 29.MAR.2007 14:19:51

5.6 Number of Hopping Frequency

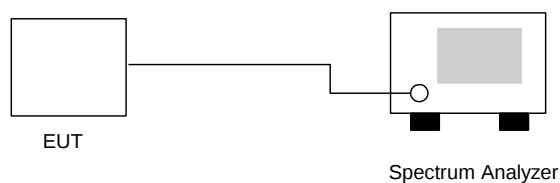
5.6.1 Measuring Instruments :

As described in chapter 9 of this test report.

5.6.2 Test Procedure :

1. The output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Set RBW of spectrum analyzer to 100kHz and VBW to 100kHz.
3. The number of hopping frequency used is defined as the device has the numbers of total channel.

5.6.3 Test Setup Layout :



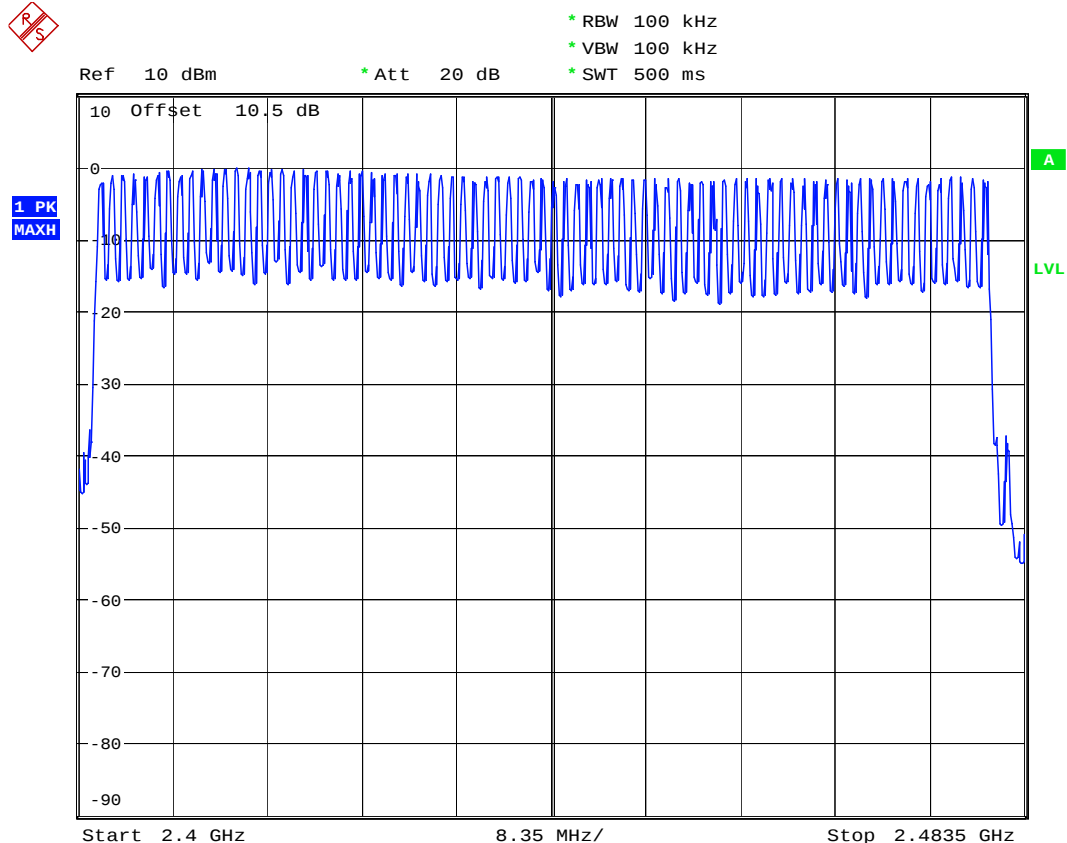
5.6.4 Test Result : See spectrum analyzer plots below

- Application Type : BT
- Temperature : 24°C
- Relative Humidity : 51%
- Test Enginner : Andy

Number of Hopping Frequency	Limits
(Channel)	(Channel)
79	15



5.6.5 Number of Hopping Frequency



Date: 29.MAR.2007 14:46:48

5.7 Hopping Channel Bandwidth

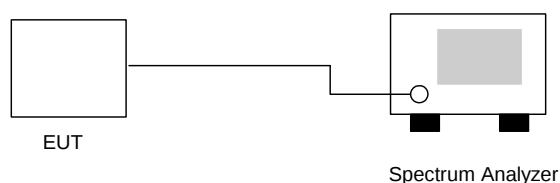
5.7.1 Measuring Instruments :

As described in chapter 9 of this test report.

5.7.2 Test Procedure :

1. The transmitter output was connected to the spectrum analyzer by a low loss cable.
2. Set RBW of spectrum analyzer to 30kHz and VBW to 300kHz.
3. The Hopping Channel bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

5.7.3 Test Setup Layout :



5.7.4 Test Result : See spectrum analyzer plots below

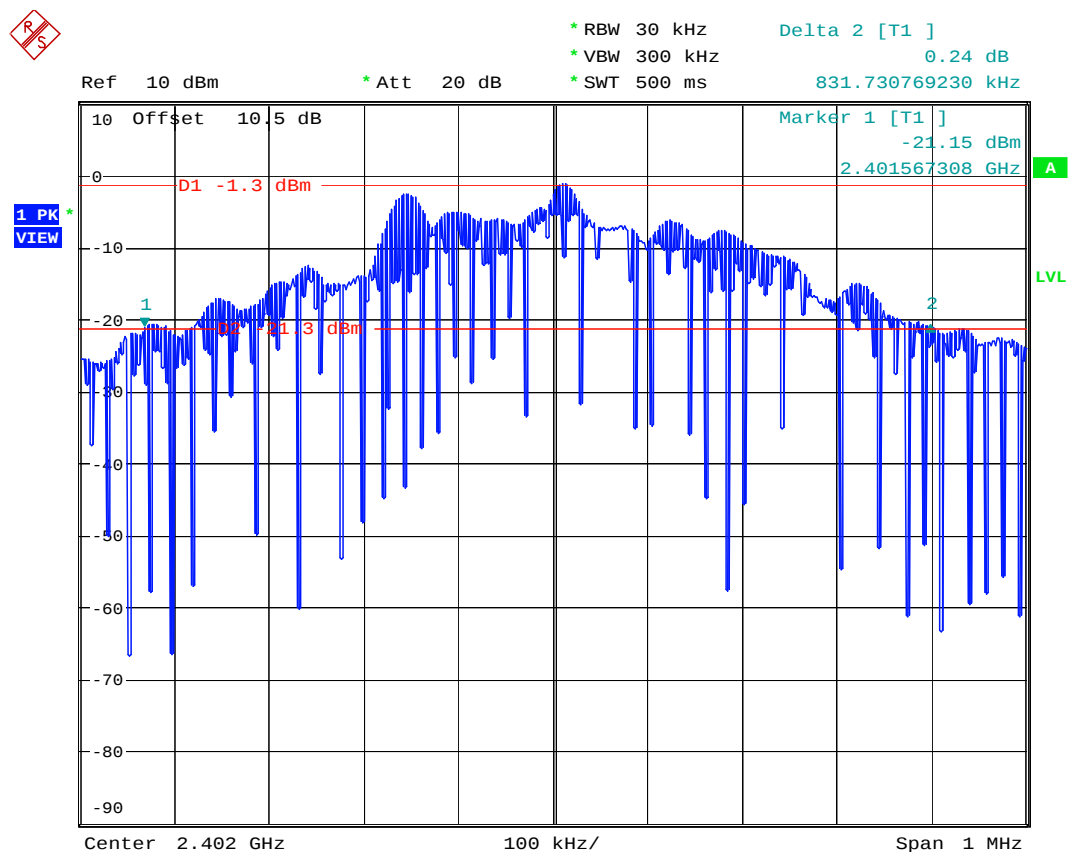
- Application Type : BT
- Temperature : 24°C
- Relative Humidity : 51%
- Test Enginner : Andy

Channel	Frequency (MHz)	Hopping Channel Bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
00	2402	0.832	1.000	Mode 1
39	2441	0.833	1.000	Mode 2
78	2480	0.867	1.000	Mode 3



5.7.5 Hopping Channel Bandwidth

Mode 1



Date: 29.MAR.2007 14:10:24



Mode 2



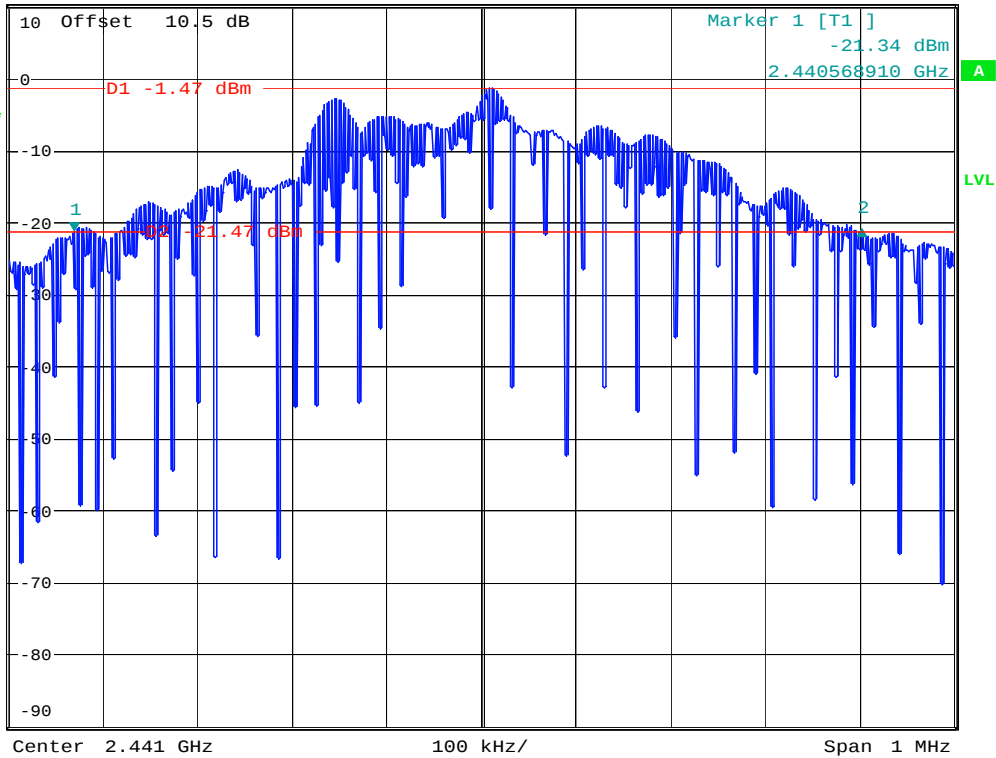
* RBW 30 kHz
* VBW 300 kHz
* SWT 500 ms

Delta 2 [T1]
0.11 dB
833.333333325 kHz

Ref 10 dBm

* Att 20 dB

1 PK
VIEW



Date: 29.MAR.2007 14:12:33



Mode 3



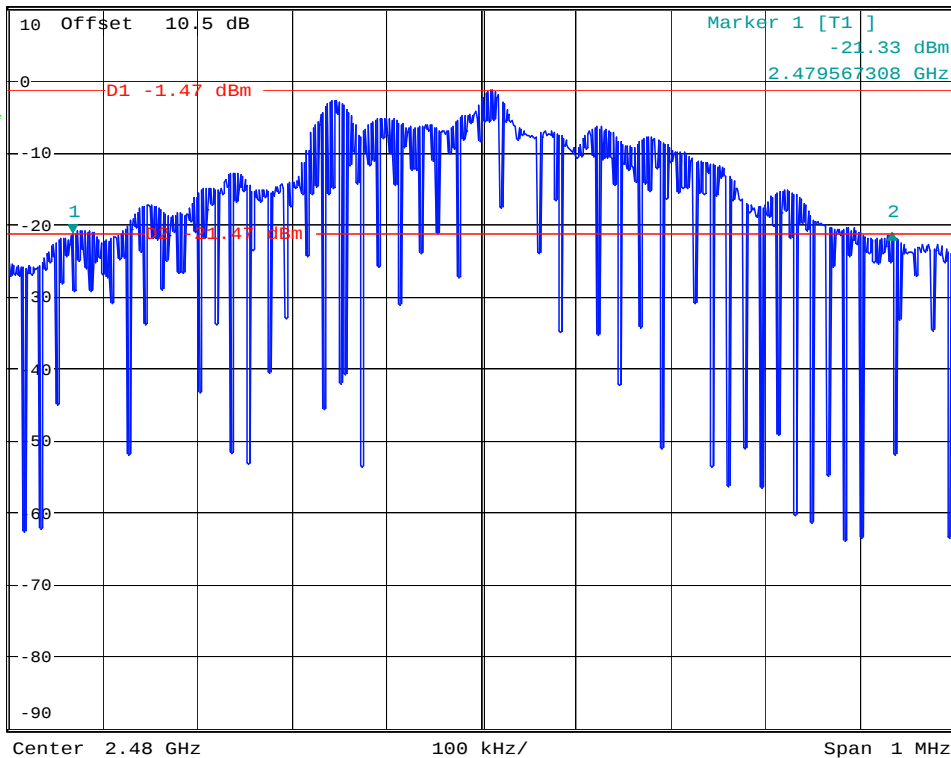
* RBW 30 kHz
* VBW 300 kHz
* SWT 500 ms

Delta 2 [T1]
0.00 dB
866.987179483 kHz

Ref 10 dBm

* Att 20 dB

1 PK
VIEW



Date: 29.MAR.2007 14:13:50

5.8 Dwell Time of Each Frequency

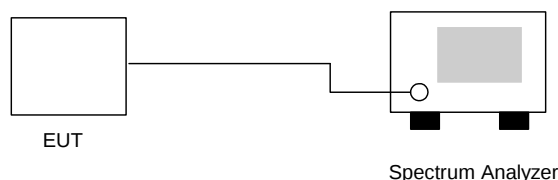
5.8.1 Measuring Instruments :

As described in chapter 9 of this test report.

5.8.2 Test Procedure :

1. The transmitter output was connected to the spectrum analyzer by a low loss cable.
2. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
3. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
4. The calculate $= 79 * 0.4 * (1600/79) * t$ (t = the time duration of one single pulse)

5.8.3 Test Setup Layout :



5.8.4 Test Result : See spectrum analyzer plots below

- Application Type : BT
- Temperature : 24°C
- Relative Humidity : 51%
- Test Enginner : Andy

CH39

Package Mode	Average Hopping Channel	Package Transfer Time (us)	Dwell Time (s)	Limit (s)
DH1	10.1	548.1	0.175	0.4
DH3	5	1814.1	0.287	0.4
DH5	3.3	3076.9	0.321	0.4

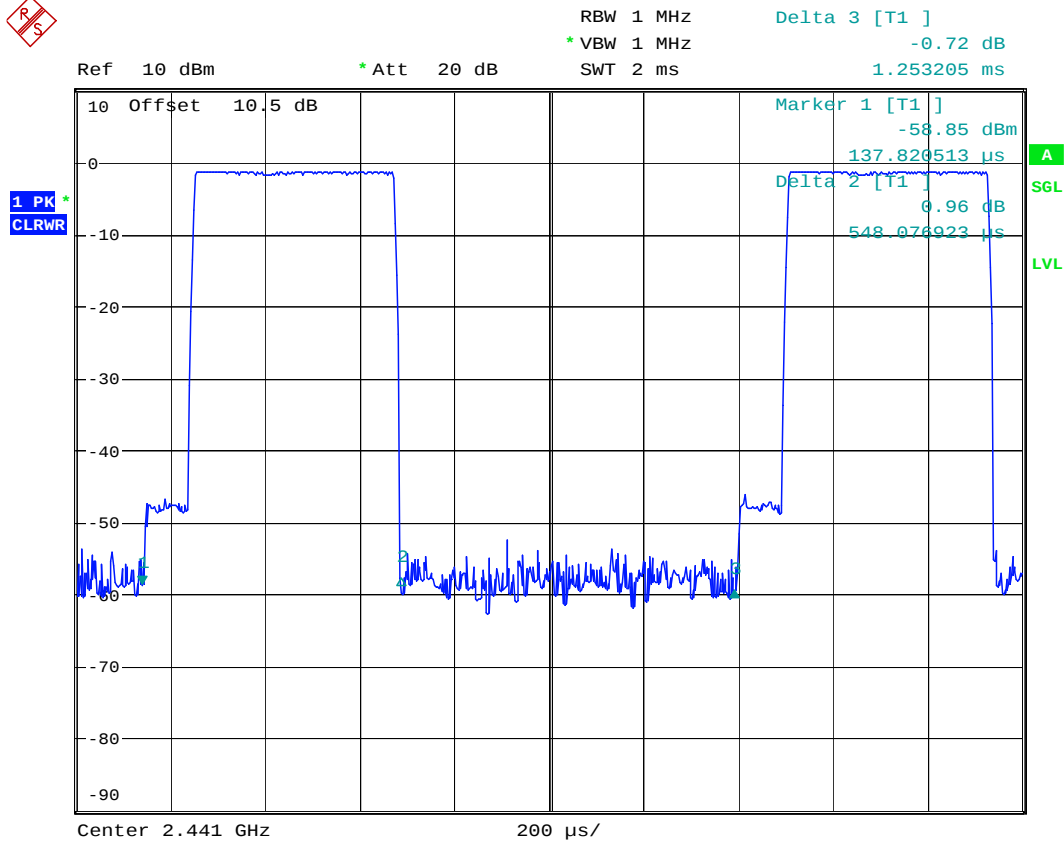
Remark:

1. Dwell Time = $79(\text{channels}) \times 0.4(\text{s}) \times \text{average hopping channel} \times \text{package transfer time}$
2. 79channels come from the Hopping Channel number.
3. Average Hopping Channel = hops/sweep time
4. t: Package Transfer Time(us)

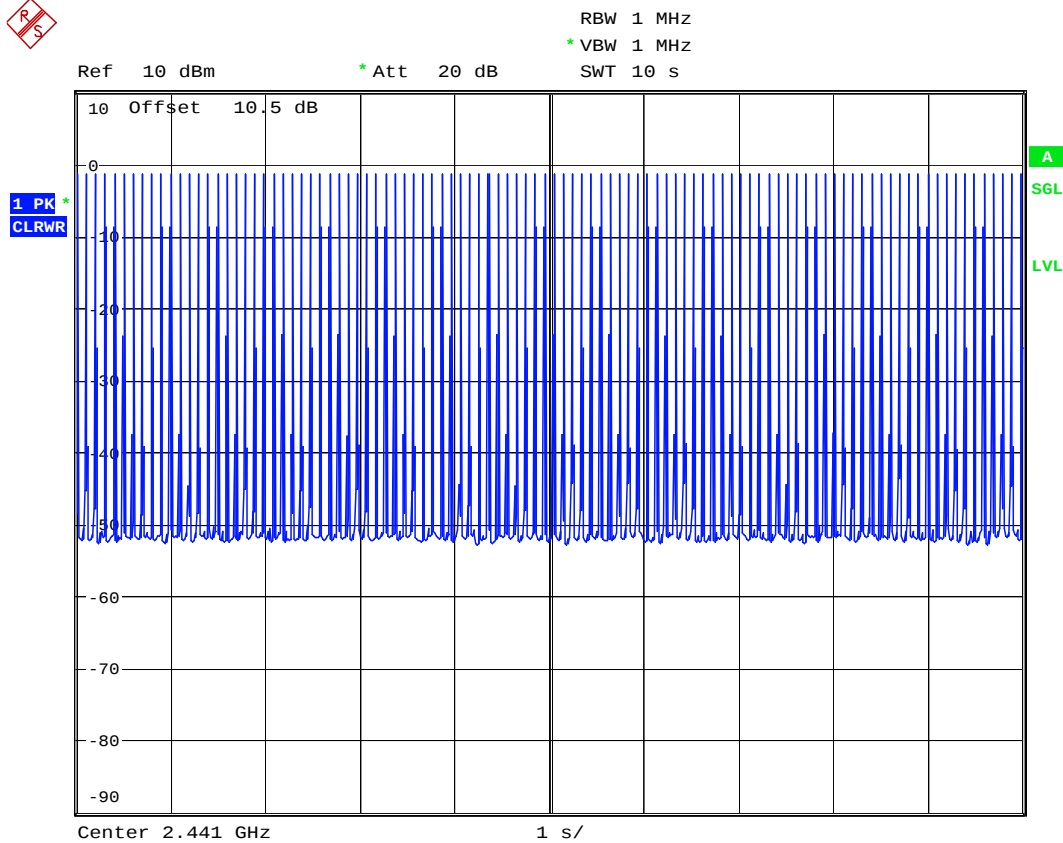


5.8.5 Dwell Time

DH1 (CH39)



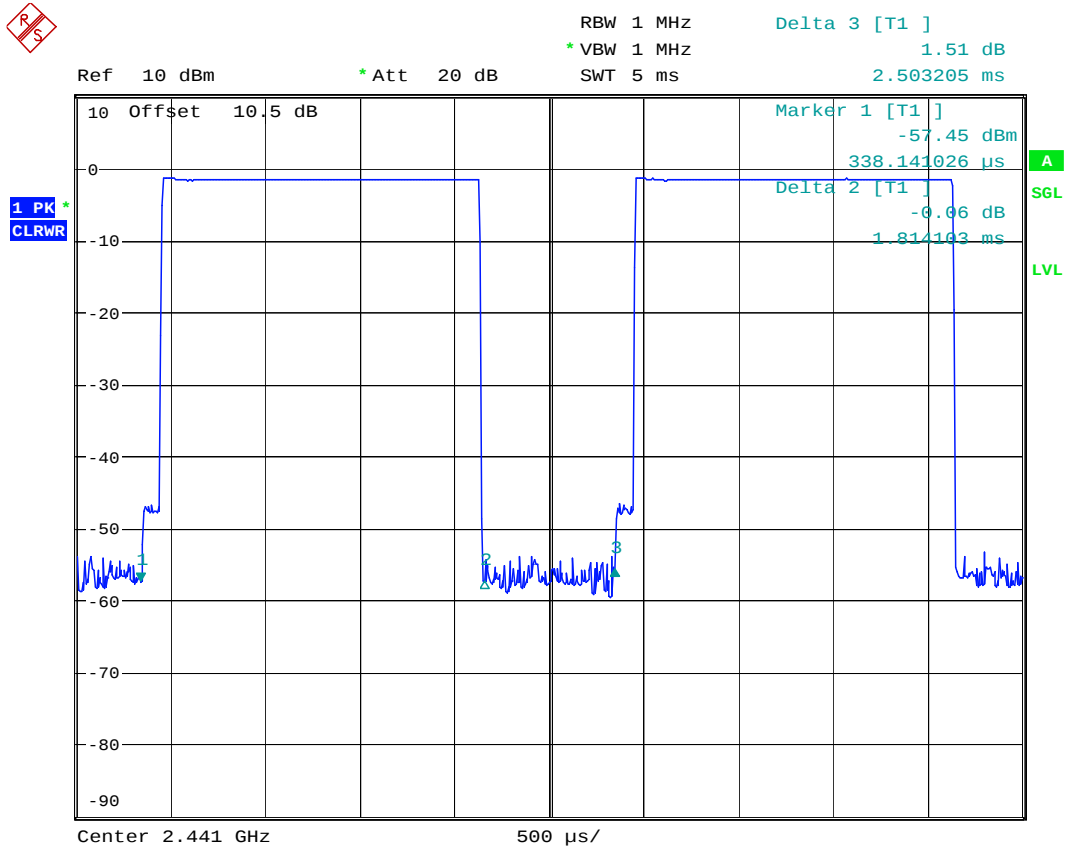
Date: 29.MAR.2007 14:22:21



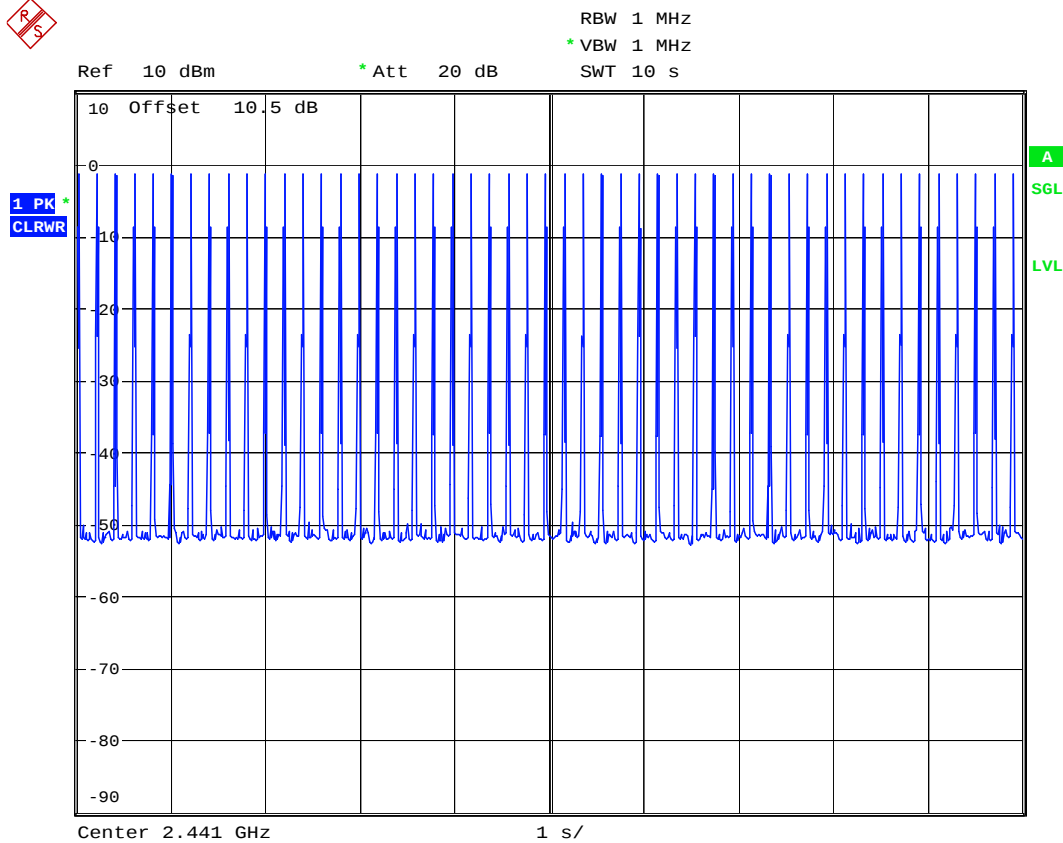
Date: 29.MAR.2007 14:39:35



DH3 (CH39)



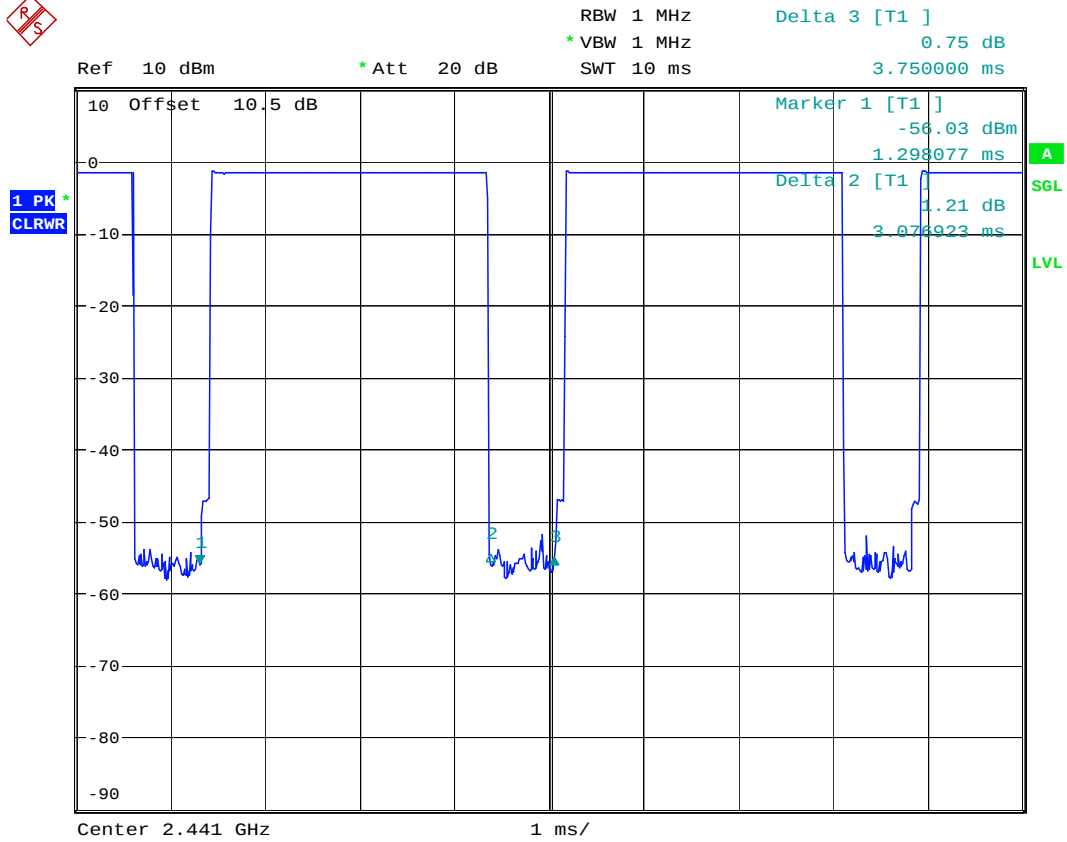
Date: 29.MAR.2007 14:24:31



Date: 29.MAR.2007 14:41:26



DH5 (CH39)

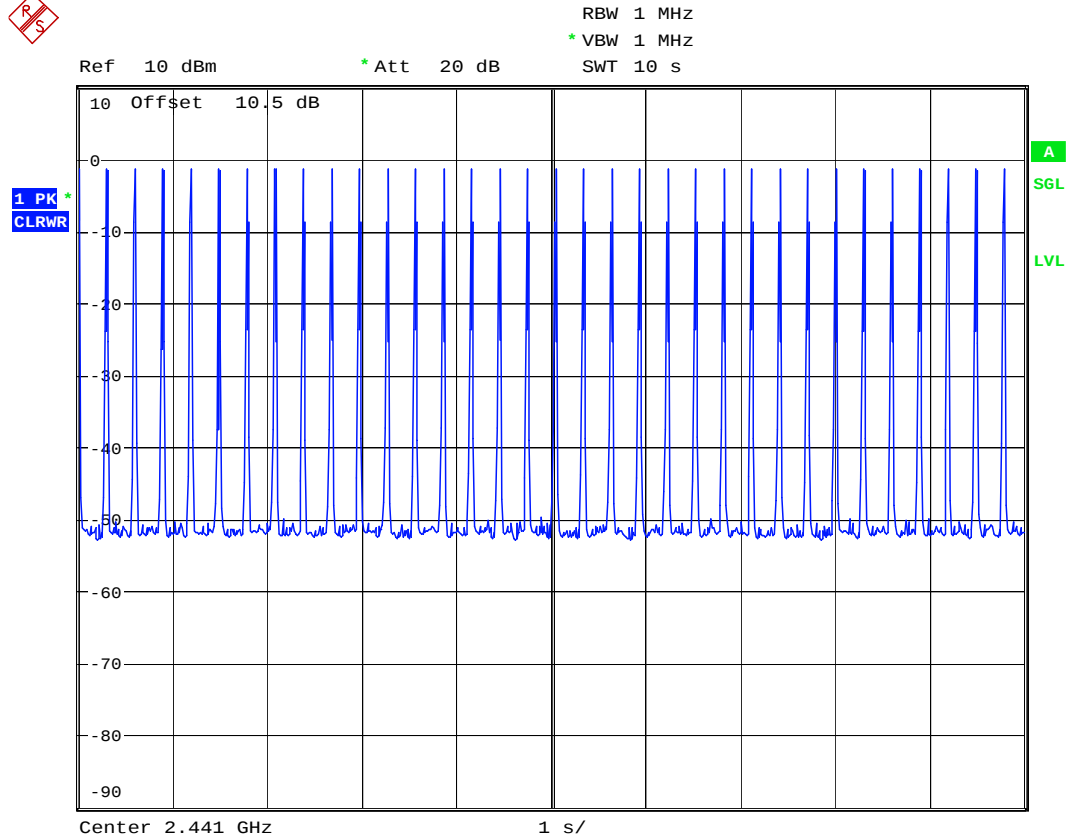


Date: 29.MAR.2007 14:36:41



FCC TEST REPORT

Report No. : FR731320



Date: 29.MAR.2007 14:42:50

5.9 Peak Output Power Measurement

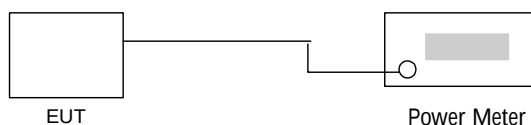
5.9.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.9.2 Test Procedure :

1. The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter for WLAN measurement. The power is equal to the reading level on power meter plus cable loss at the EUT antenna terminal.
2. The antenna port (RF output) of the EUT was connected to the input (RF input) of a spectrum analyzer for BT measurement. RBW and VBW are set to 3MHz. The cable loss has been offset before testing.

5.9.3 Test Setup Layout :



5.9.4 Test Result :

- Application Type : WLAN 802.11b/g/a and BT
- Temperature : 24°C
- Relative Humidity : 51 %
- Test Enginner : Andy

WLAN 802.11b

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
01	2412	16.81	1W/30 dBm
06	2437	16.08	1W/30 dBm
11	2462	15.90	1W/30 dBm

WLAN 802.11g

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
01	2412	20.40	1W/30 dBm
06	2437	20.33	1W/30 dBm
11	2462	20.37	1W/30 dBm

**WLAN 802.11a**

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
149	5745	17.88	1W/30 dBm
157	5785	18.87	1W/30 dBm
165	5825	18.03	1W/30 dBm

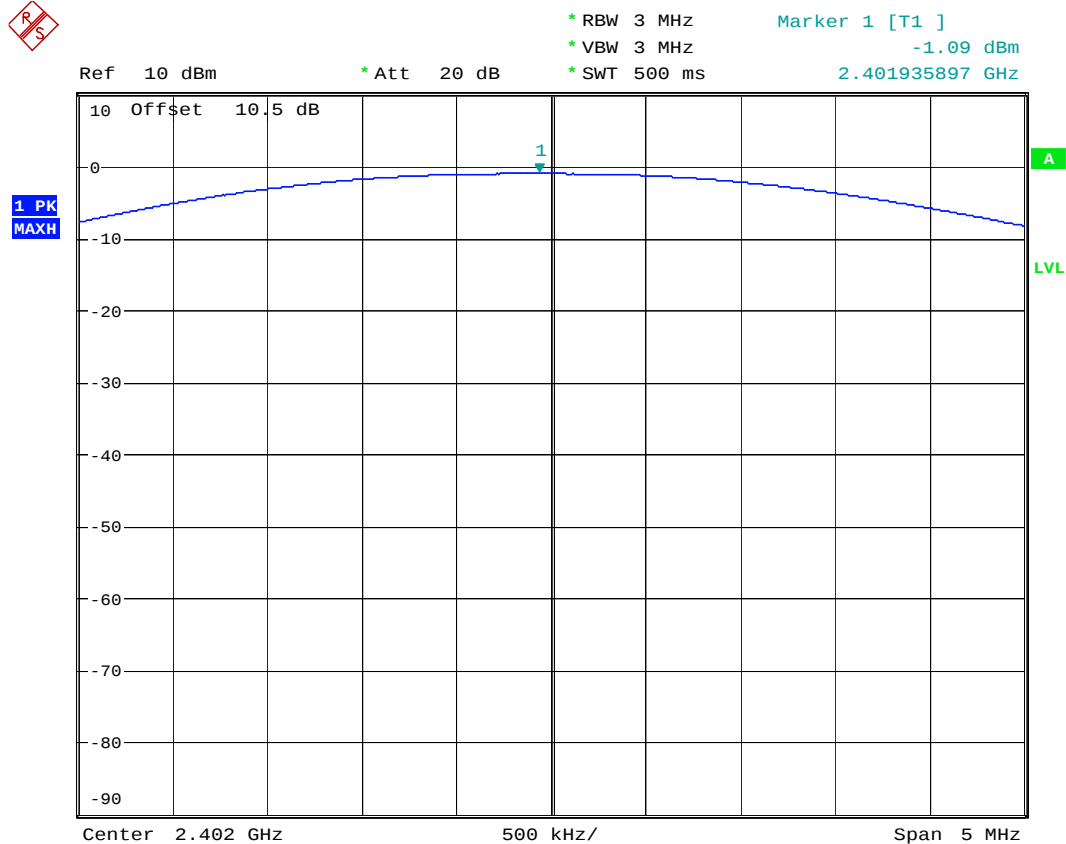
Bluetooth

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
00	2402	-1.09	1W/30 dBm
39	2441	-1.27	1W/30 dBm
78	2480	-1.22	1W/30 dBm



5.9.5 Output Power

BT Mode : CH00 (2402MHz)



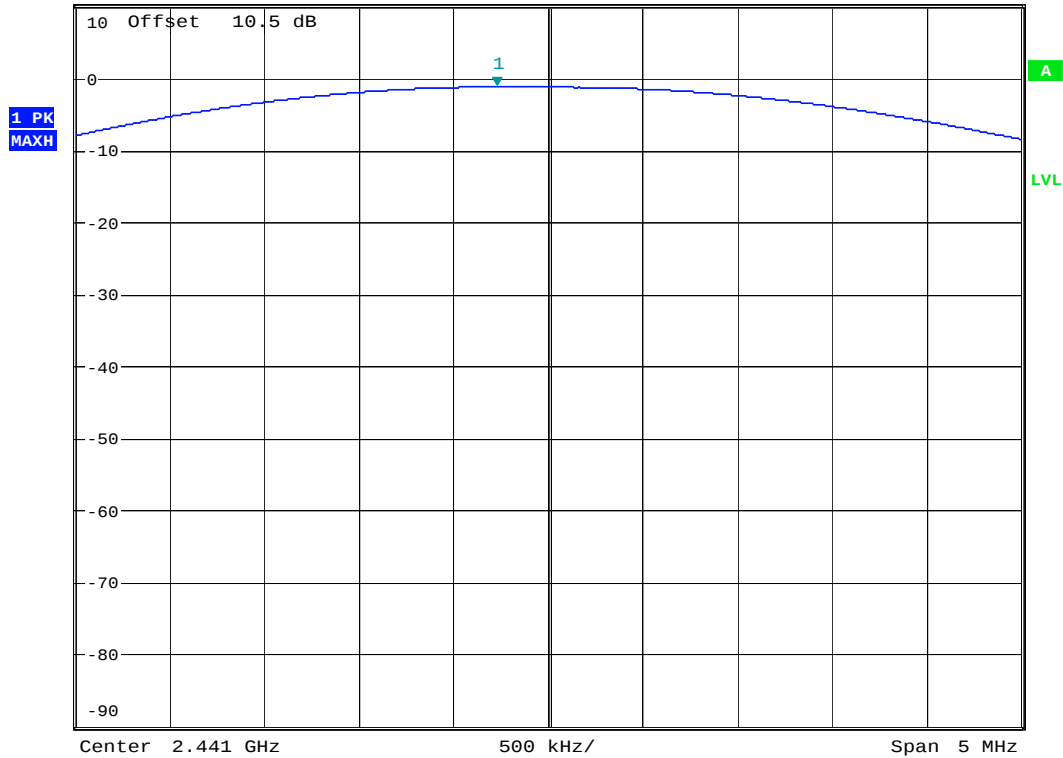
Date: 29.MAR.2007 14:06:45



BT Mode : CH39 (2441MHz)



Ref 10 dBm * Att 20 dB * RBW 3 MHz * VBW 3 MHz * SWT 500 ms Marker 1 [T1] -1.27 dBm 2.440727564 GHz



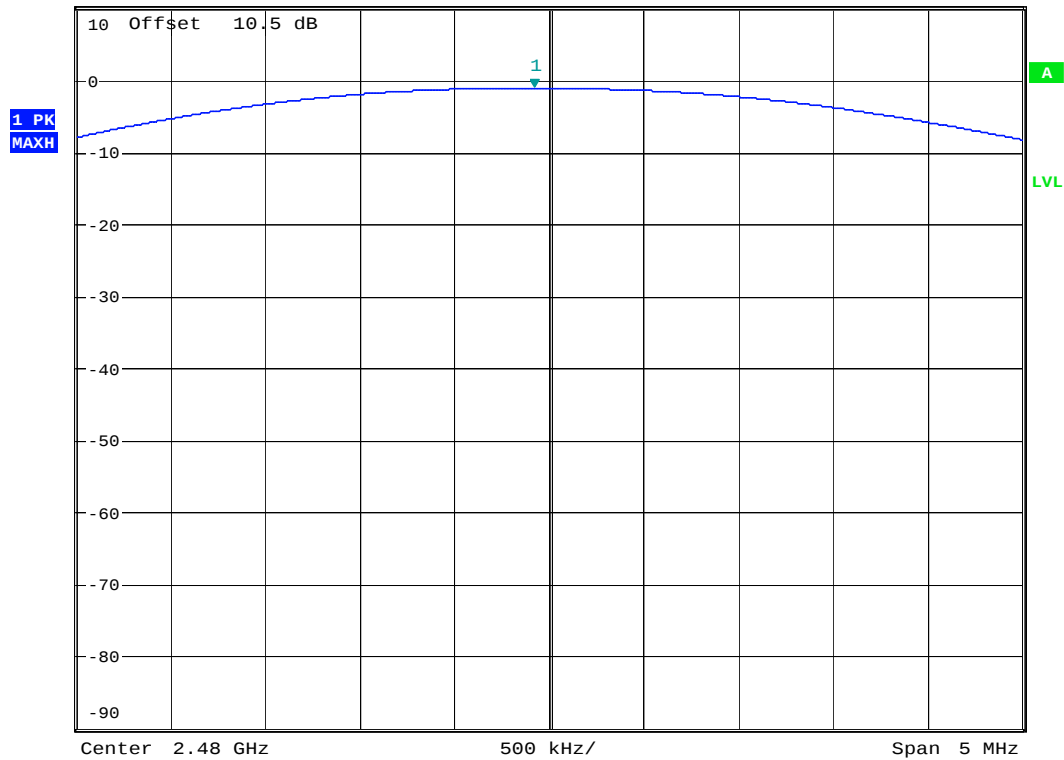
Date: 29.MAR.2007 14:07:17



BT Mode : CH78 (2480MHz)



Ref 10 dBm * Att 20 dB * RBW 3 MHz * VBW 3 MHz * SWT 500 ms Marker 1 [T1] -1.22 dBm 2.479919872 GHz



Date: 29.MAR.2007 14:07:38



5.10 Conducted Emission

5.10.1 Measuring Instruments

As described in chapter 6 of this test Report.

5.10.2 Test Procedures :

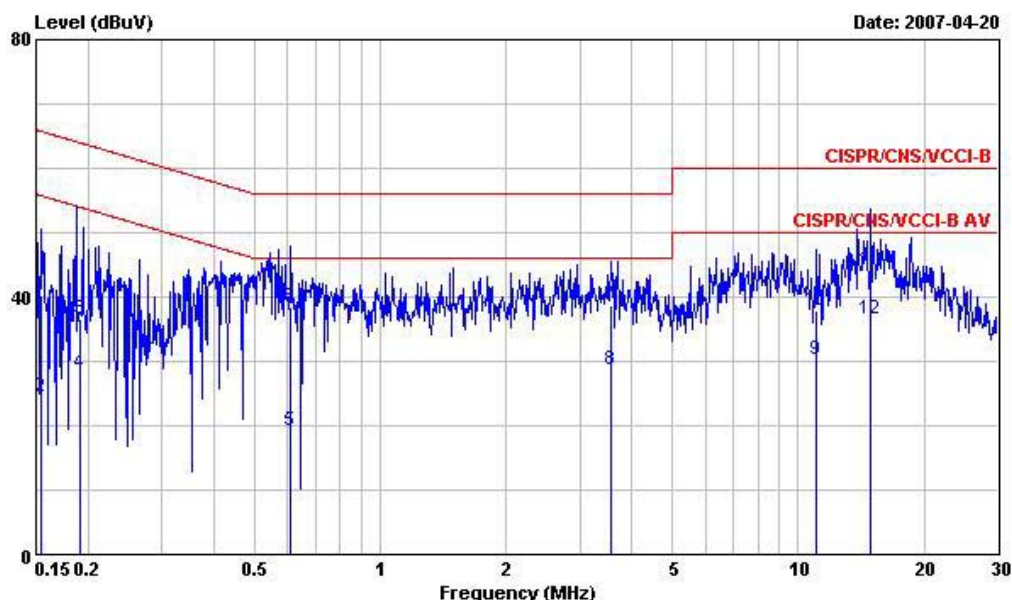
- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power port of a line impedance stabilization network (LISN).
- c. All the support units are connected to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.



5.10.3 Test Data

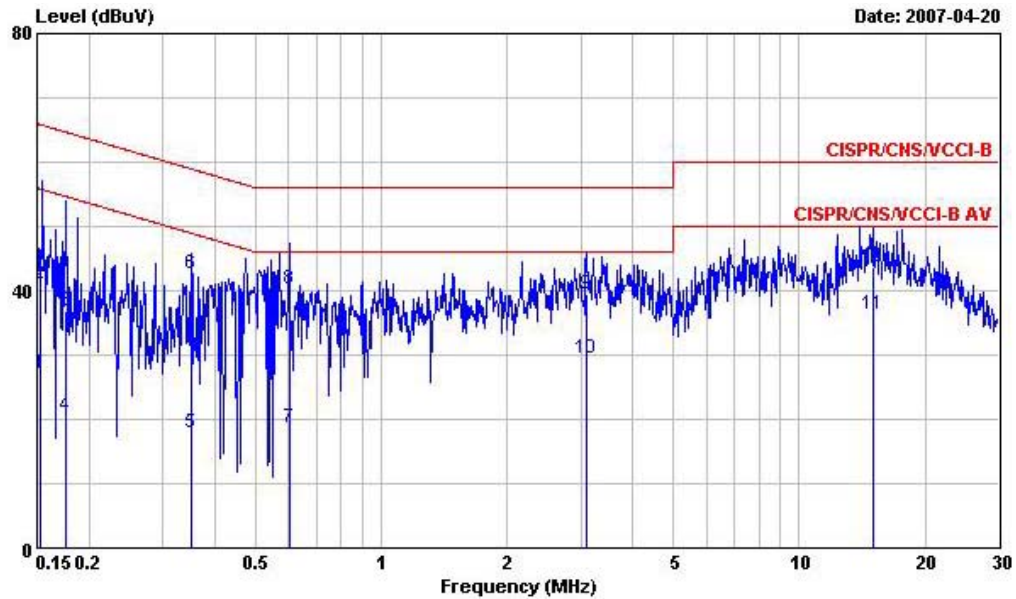
- Temperature : 24 °C
- Relative Humidity : 52 %
- Test Engineer : James
- Test Mode : Mode 1

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : CO04-HY
Condition : CISPR/CNS/VCCI-B LISN 200604 99041 LINE
EUT : Notebook PC
POWER: AC 120V/60Hz
Model : FR731320
Memo : WLAN Link+Adapter

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	③0.1548450	40.36	-25.38	65.74	39.58	0.10	0.68	QP
2	③0.1548450	24.56	-31.18	55.74	23.78	0.10	0.68	Average
3	③0.1912050	36.60	-27.38	63.98	35.97	0.10	0.53	QP
4	③0.1912050	28.16	-25.82	53.98	27.53	0.10	0.53	Average
5	③0.6107510	19.30	-26.70	46.00	18.80	0.10	0.40	Average
6	③0.6107510	38.49	-17.51	56.00	37.99	0.10	0.40	QP
7	③3.570	38.81	-17.19	56.00	38.11	0.10	0.60	QP
8	③3.570	28.70	-17.30	46.00	28.00	0.10	0.60	Average
9	③11.080	30.31	-19.69	50.00	29.28	0.30	0.73	Average
10	③11.080	37.86	-22.14	60.00	36.83	0.30	0.73	QP
11	③14.910	44.15	-15.85	60.00	42.75	0.60	0.80	QP
12	③14.910	36.66	-13.34	50.00	35.26	0.60	0.80	Average



Site : C004-HY
Condition : CISPR/CNS/VCCI-B LISN 200604 99041 NEUTRAL
EUT : Notebook PC
POWER: AC 120V/60Hz
Model : FR731320
Memo : WLAN Link+Adapter

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	@0.1522950	27.01	-28.86	55.87	26.22	0.10	0.69	Average
2	@0.1522950	41.14	-24.73	65.87	40.35	0.10	0.69	QP
3	@0.1758420	36.96	-27.72	64.68	36.27	0.10	0.59	QP
4	@0.1758420	20.51	-34.17	54.68	19.82	0.10	0.59	Average
5	@0.3520120	17.81	-31.10	48.91	17.31	0.10	0.40	Average
6	@0.3520120	42.59	-16.32	58.91	42.09	0.10	0.40	QP
7	@0.6011200	18.57	-27.43	46.00	18.07	0.10	0.40	Average
8	@0.6011200	40.15	-15.85	56.00	39.65	0.10	0.40	QP
9	@3.090	39.54	-16.46	56.00	38.78	0.16	0.60	QP
10	@3.090	29.34	-16.66	46.00	28.58	0.16	0.60	Average
11	@15.070	36.37	-13.63	50.00	35.27	0.30	0.80	Average
12	@15.070	43.72	-16.28	60.00	42.62	0.30	0.80	QP

5.11 Radiated Emission Measurement

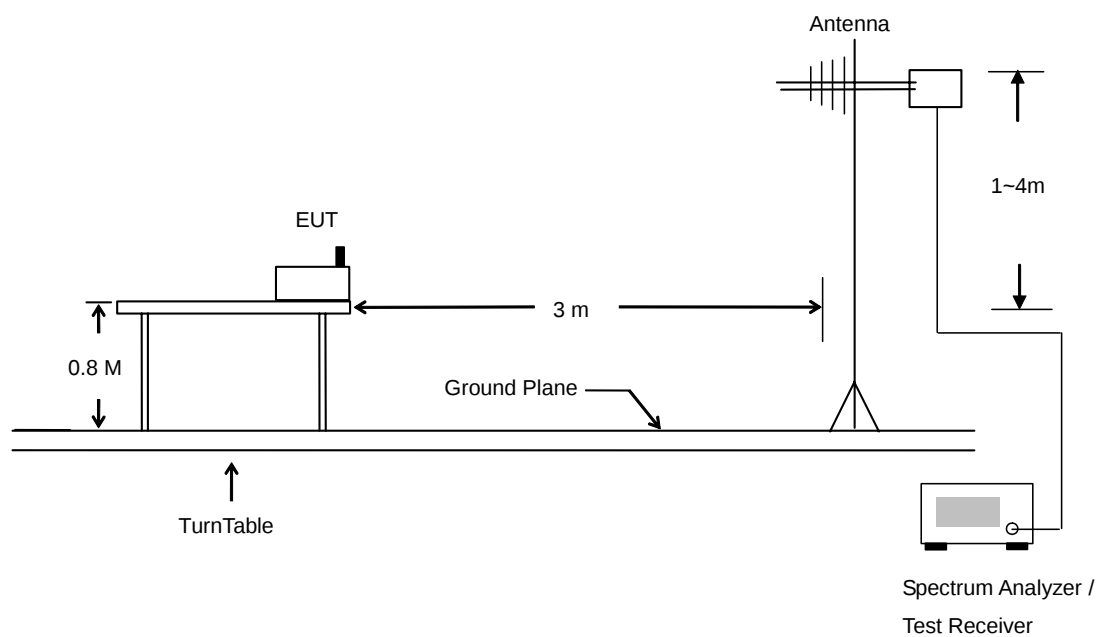
5.11.1 Measuring Instruments

As described in chapter 6 of this Report.

5.11.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- e. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. For testing below 1GHz, If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

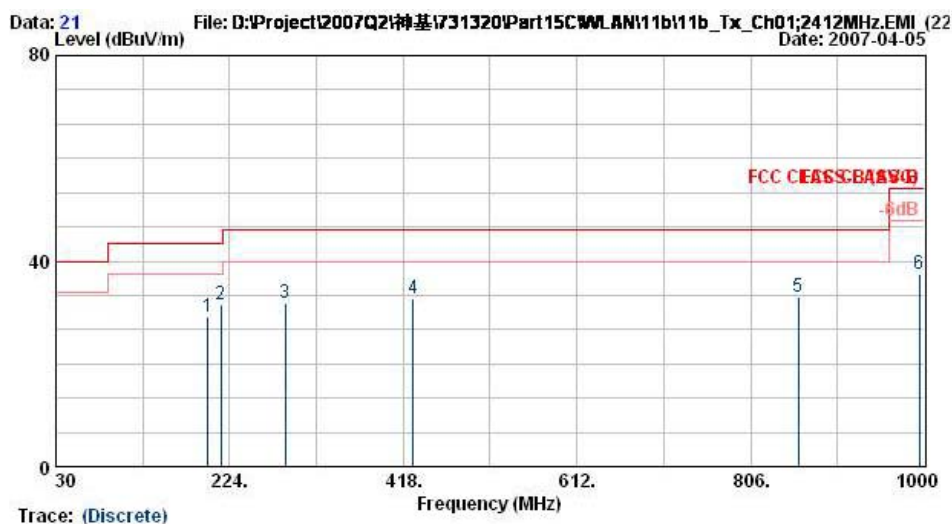
5.11.3 Typical Test Setup Layout of Radiated Emission



**5.11.4 Test Data**

- Temperature : 24°C
- Relating Humidity : 51%
- Test Enginner : Louis
- Test Mode : Mode 1
- Polarization : Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

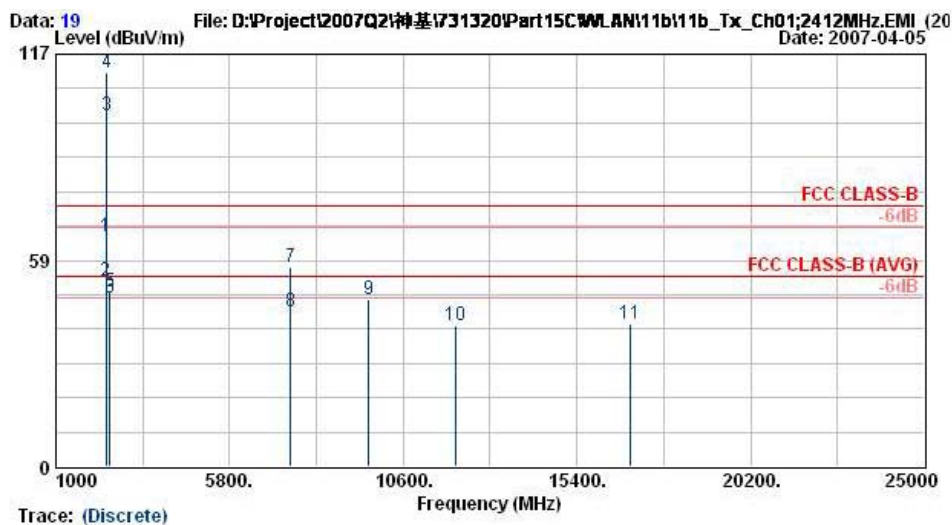


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	199.83	29.23	-14.27	43.5	48.77	9.3	2.18	31.02	100	360	Peak
2	214.68	31.43	-12.07	43.5	50.13	10.16	2.17	31.03	162	301	QP
3	286.23	31.83	-14.17	46	47.25	12.95	2.59	30.96	100	360	Peak
4	428.8	32.81	-13.19	46	44.15	16.24	3.26	30.84	100	360	Peak
5	859.3	33.02	-12.98	46	38.52	20.24	4.68	30.42	100	360	Peak
6	994.4	37.44	-16.56	54	41.39	21.2	5.12	30.27	100	360	Peak



- Polarization : Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



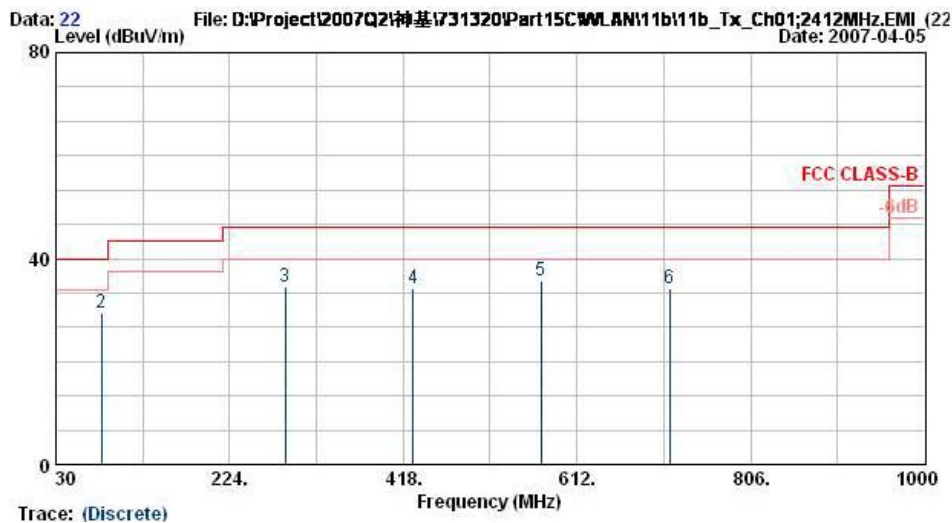
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	2390	65.04	-8.96	74	66.49	30.26	3.75	35.46	100	360	Peak
2	!	2390	-1.23	54	54.22	30.26	3.75	35.46	100	215	Average
3	X	2412	45.58	54	101	30.27	3.77	35.46	100	215	Average
4	X	2412	37.68	74	113.1	30.27	3.77	35.46	100	360	Peak
5		2488	-24.32	74	51.03	30.3	3.86	35.51	100	360	Peak
6	!	2488	-5.94	54	49.41	30.3	3.86	35.51	100	215	Average
7		7497	-17.42	74	46.13	38.9	7.61	36.06	100	360	Peak
8		7497	-10.16	54	33.39	38.9	7.61	36.06	100	360	Average
9		9642	-26.53	74	85.12	-10.09	9.12	36.68	100	360	Peak
10		12057	-39.84	74	75.55	-9.8	10.65	36.56	100	360	Peak
11		16881	-33.54	74	73.01	-10.1	11.99	34.44	100	360	Peak

Remark: "X" represents the Fundamental Signal



- Polarization : Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

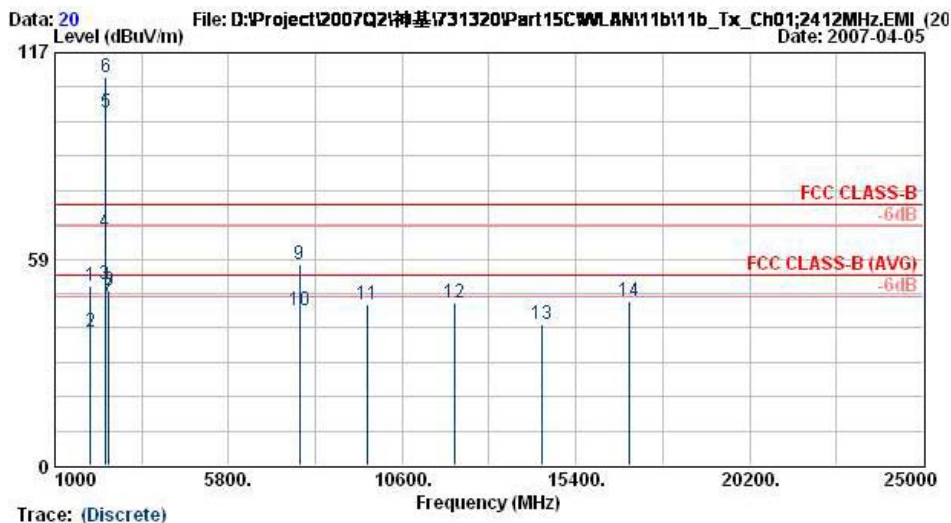


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	30	27.42	-12.58	40	38.38	19.66	0.84	31.46	100	360	Peak
2	80.49	29.57	-10.43	40	51.83	7.52	1.31	31.09	100	360	Peak
3	286.23	34.42	-11.58	46	49.84	12.95	2.59	30.96	100	360	Peak
4	428.8	34.1	-11.9	46	45.44	16.24	3.26	30.84	100	360	Peak
5	572.3	35.66	-10.34	46	44.39	18.18	3.79	30.7	134	151	QP
6	715.8	34.06	-11.94	46	41.31	19.03	4.29	30.57	100	360	Peak



- Polarization : Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



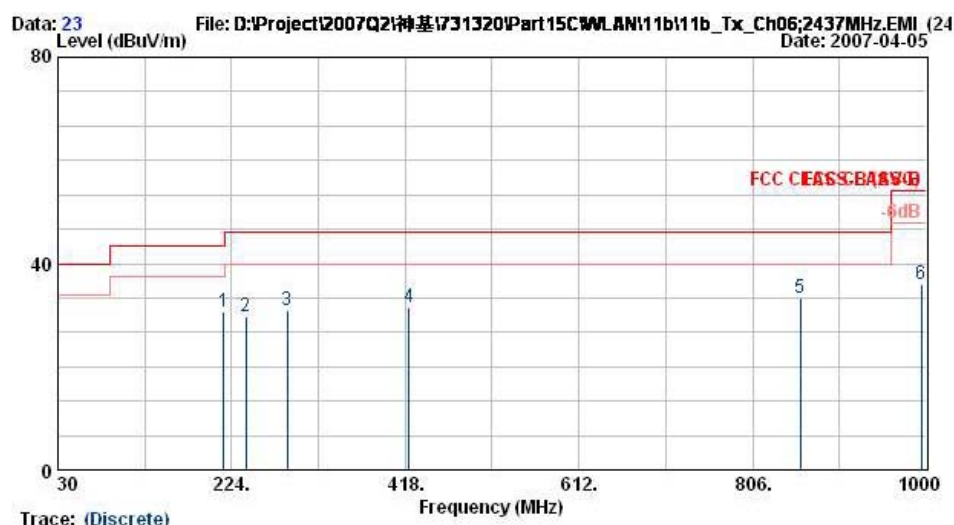
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	1994	50.73	-23.27	74	52.63	29.97	3.3	35.17	100	360	Peak
2	1994	37.94	-16.06	54	39.84	29.97	3.3	35.17	100	239	Average
3	! 2390	51.16	-2.84	54	52.61	30.26	3.75	35.46	100	308	Average
4	2390	66.13	-7.87	74	67.58	30.26	3.75	35.46	100	360	Peak
5	X 2412	99.88	45.88	54	101.3	30.27	3.77	35.46	100	308	Average
6	X 2412	109.94	35.94	74	111.36	30.27	3.77	35.46	100	360	Peak
7	! 2494	48	-6	54	49.35	30.3	3.88	35.53	100	308	Average
8	2494	49.68	-24.32	74	51.03	30.3	3.88	35.53	100	360	Peak
9	7767	56.96	-17.04	74	45.93	39.27	7.71	35.95	100	360	Peak
10	7767	44.07	-9.93	54	33.04	39.27	7.71	35.95	100	360	Average
11	9642	45.61	-28.39	74	83.26	-10.09	9.12	36.68	100	360	Peak
12	12057	46.21	-27.79	74	81.92	-9.8	10.65	36.56	100	360	Peak
13	14472	40.22	-33.78	74	70.51	-6.57	11.72	35.44	100	360	Peak
14	16881	46.52	-27.48	74	79.07	-10.1	11.99	34.44	100	360	Peak

Remark: "X" represents the Fundamental Signal



- Test Mode : Mode 2
- Polarization : Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

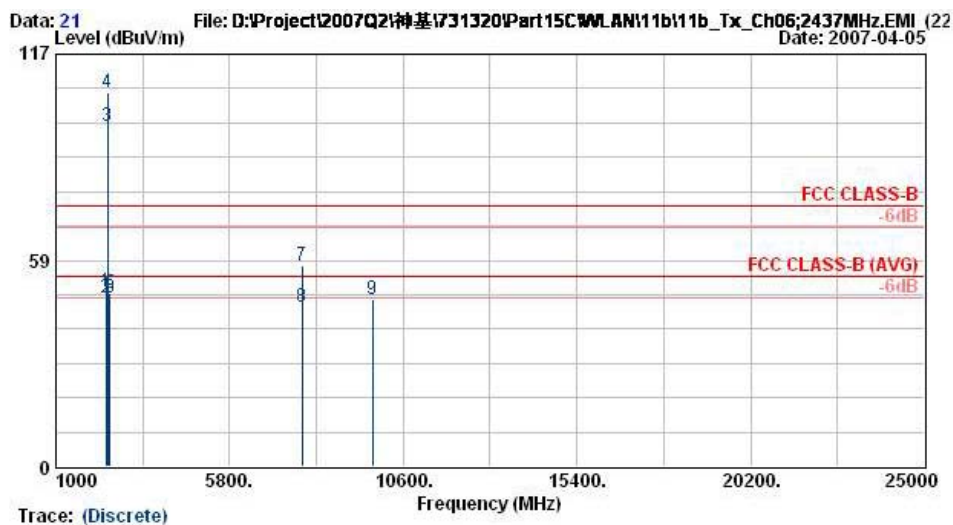


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	215.49	30.67	-12.83	43.5	49.32	10.21	2.17	31.03	100	360	Peak
2	239.79	29.83	-16.17	46	46.8	11.64	2.32	30.93	100	360	Peak
3	286.23	30.79	-15.21	46	46.21	12.95	2.59	30.96	100	360	Peak
4	421.8	31.38	-14.62	46	42.85	16.13	3.24	30.84	100	360	Peak
5	859.3	33.4	-12.6	46	38.9	20.24	4.68	30.42	170	272	QP
6	994.4	35.87	-18.13	54	39.82	21.2	5.12	30.27	100	360	Peak



- Polarization : Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



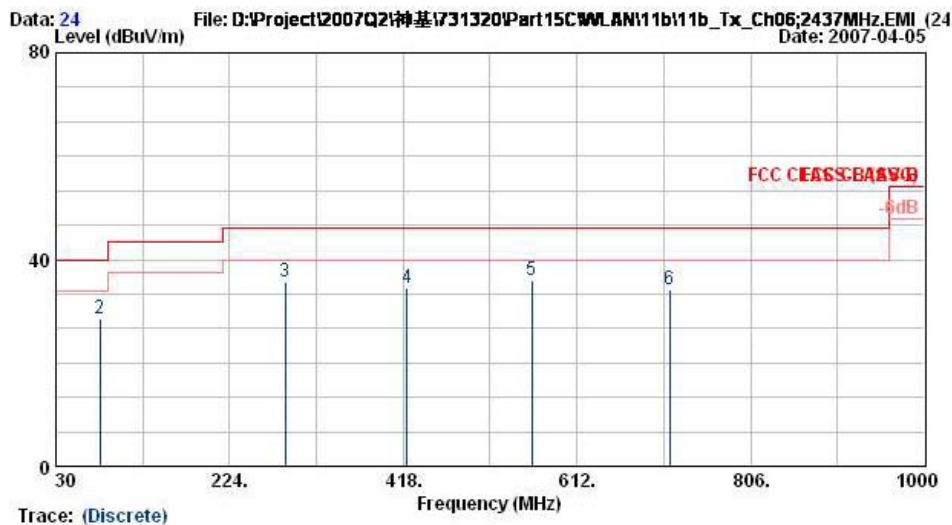
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	2378	49.72	-24.28	74	51.16	30.25	3.75	35.44	100	360	Peak
2	2378	47.93	-6.07	54	49.37	30.25	3.75	35.44	127	229	Average
3	X 2437	96.43	42.43	54	97.8	30.28	3.82	35.47	127	229	Average
4	X 2437	106.2	32.2	74	107.57	30.28	3.82	35.47	100	360	Peak
5	2484	49.16	-24.84	74	50.52	30.29	3.86	35.51	100	360	Peak
6	2484	47.93	-6.07	54	49.29	30.29	3.86	35.51	127	229	Average
7	7806	57.02	-16.98	74	45.9	39.32	7.72	35.92	100	360	Peak
8	7806	45.18	-8.82	54	34.06	39.32	7.72	35.92	100	360	Average
9	9747	47.55	-26.45	74	84.86	-9.85	9.15	36.61	100	360	Peak

Remark: "X" represents the Fundamental Signal



- Polarization : Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

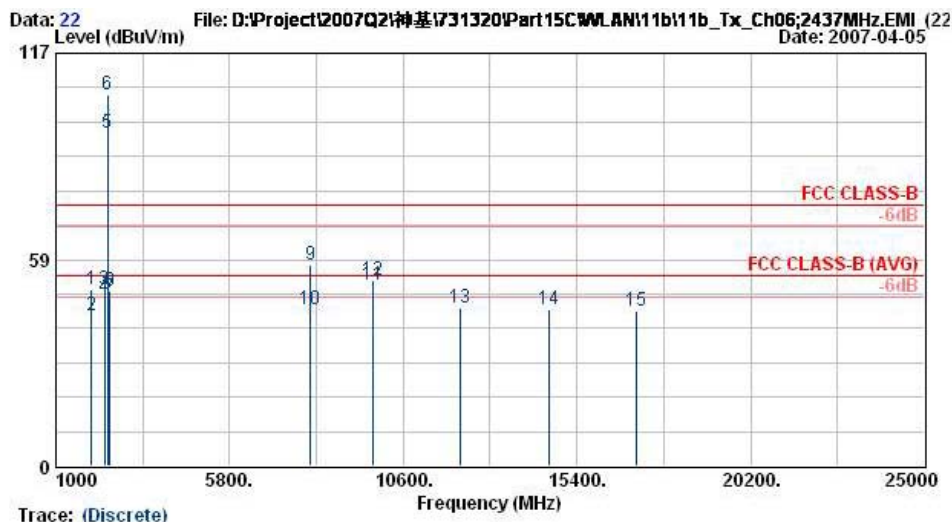


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	30	27.4	-12.6	40	38.36	19.66	0.84	31.46	100	360	Peak
2	79.14	28.57	-11.43	40	50.89	7.46	1.31	31.09	100	360	Peak
3	286.23	35.8	-10.2	46	51.22	12.95	2.59	30.96	100	360	Peak
4	421.8	34.46	-11.54	46	45.93	16.13	3.24	30.84	100	360	Peak
5	561.8	36.12	-9.88	46	45	18.07	3.76	30.71	139	116	QP
6	715.8	34.16	-11.84	46	41.41	19.03	4.29	30.57	100	360	Peak



- Polarization : Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



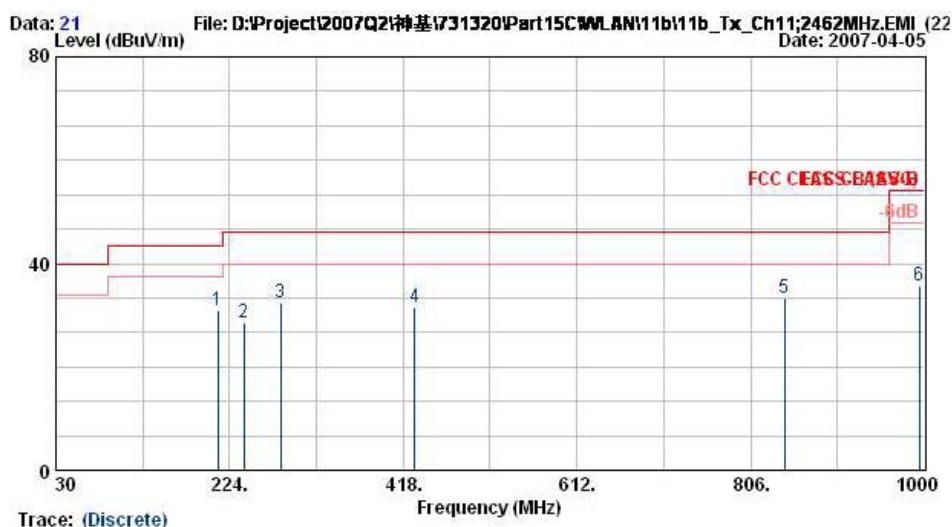
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	1988	50.04	-23.96	74	51.94	29.97	3.3	35.17	100	360	Peak
2	1988	42.47	-11.53	54	44.37	29.97	3.3	35.17	100	286	Average
3	2344	49.85	-24.15	74	51.32	30.24	3.71	35.42	100	360	Peak
4	2344	47.98	-6.02	54	49.45	30.24	3.71	35.42	100	305	Average
5	X 2437	94.48	40.48	54	95.85	30.28	3.82	35.47	100	305	Average
6	X 2437	105.16	31.16	74	106.53	30.28	3.82	35.47	100	360	Peak
7	2488	47.94	-6.06	54	49.29	30.3	3.86	35.51	100	305	Average
8	2488	49.51	-24.49	74	50.86	30.3	3.86	35.51	100	360	Peak
9	8046	56.78	-17.22	74	45.23	39.57	7.85	35.87	100	360	Peak
10	8046	44.4	-9.6	54	32.85	39.57	7.85	35.87	100	360	Average
11	9747	51.15	-22.85	74	88.46	-9.85	9.15	36.61	100	360	Peak
12	! 9747	52.55	-1.45	54	89.86	-9.85	9.15	36.61	131	115	Average
13	12186	44.99	-29.01	74	81.04	-10.25	10.66	36.46	100	360	Peak
14	14622	44.54	-29.46	74	75.05	-6.5	11.62	35.63	100	360	Peak
15	17061	43.94	-30.06	74	77.59	-10.35	12.1	35.4	100	360	Peak

Remark: "X" represents the Fundamental Signal



- Test Mode : Mode 3
- Polarization : Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

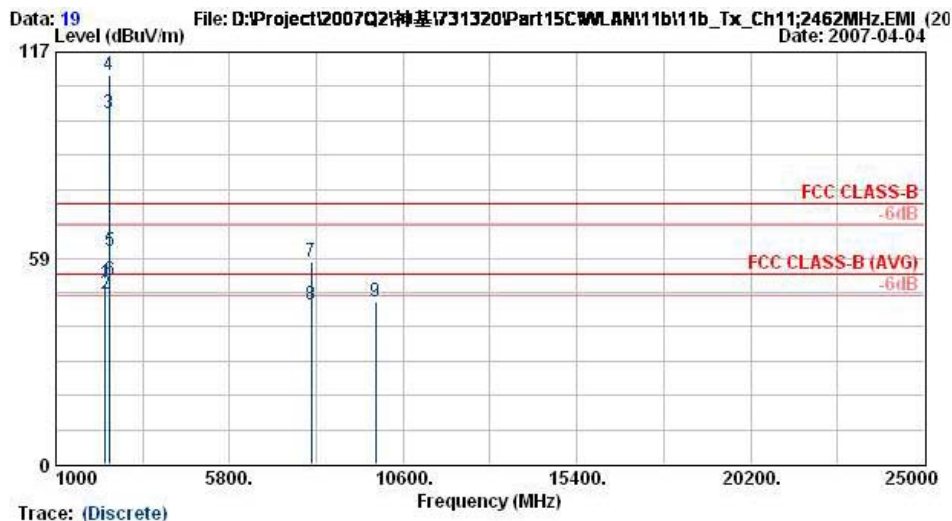


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	210.63	30.87	-12.63	43.5	49.8	9.93	2.17	31.03	100	360	Peak
2	239.79	28.53	-17.47	46	45.5	11.64	2.32	30.93	100	360	Peak
3	280.83	32.48	-13.52	46	48.02	12.86	2.57	30.97	100	360	Peak
4	430.9	31.6	-14.4	46	42.9	16.27	3.26	30.83	100	360	Peak
5	843.9	33.41	-12.59	46	39.07	20.13	4.65	30.44	160	284	QP
6	994.4	35.61	-18.39	54	39.56	21.2	5.12	30.27	100	360	Peak



- Polarization : Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



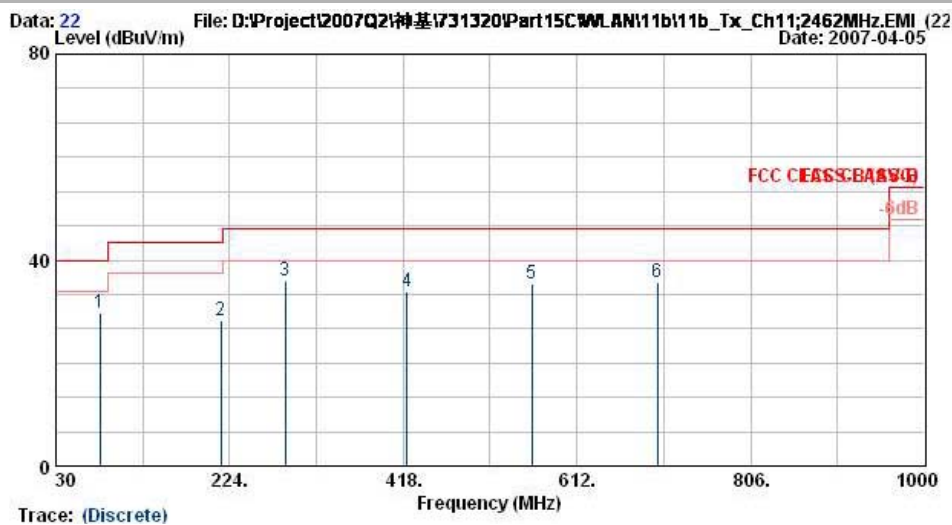
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	2358	51.36	-22.64	74	52.83	30.24	3.71	35.42	100	360	Peak
2	!	2358	-5.83	54	49.64	30.24	3.71	35.42	126	232	Average
3	X	2462	45.63	54	100.99	30.29	3.84	35.49	126	232	Average
4	X	2462	36.61	74	111.97	30.29	3.84	35.49	100	360	Peak
5		2483.5	-13.68	74	61.68	30.29	3.86	35.51	100	360	Peak
6	!	2483.5	-1.82	54	53.54	30.29	3.86	35.51	126	232	Average
7		8052	-16.59	74	45.89	39.56	7.85	35.89	100	360	Peak
8		8052	-8.88	54	33.6	39.56	7.85	35.89	100	360	Average
9		9846	-27.86	74	83.13	-9.63	9.18	36.54	100	360	Peak

Remark: #3 and #4 Fundamental Signal



- Polarization : Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

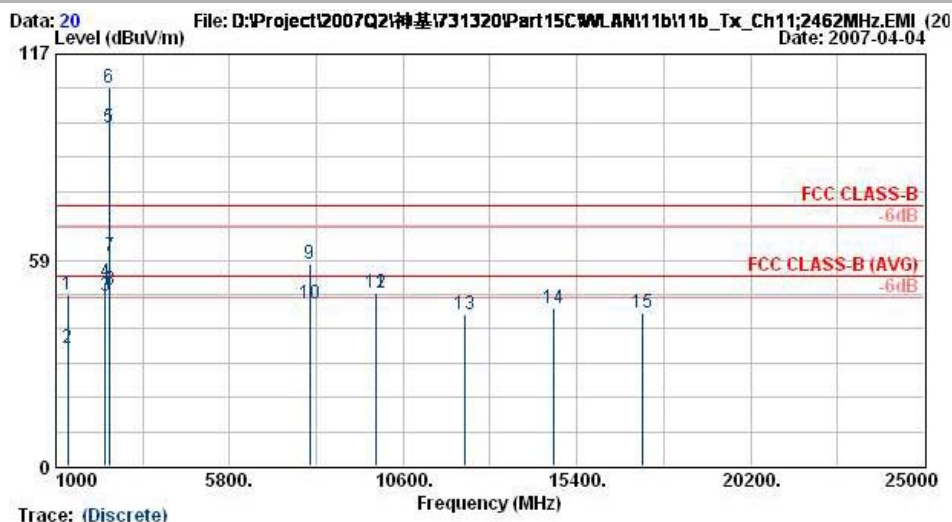


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	79.14	29.59	-10.41	40	51.91	7.46	1.31	31.09	100	360	Peak
2	214.68	28.17	-15.33	43.5	46.87	10.16	2.17	31.03	100	360	Peak
3	286.23	35.87	-10.13	46	51.29	12.95	2.59	30.96	160	121	QP
4	421.8	34.03	-11.97	46	45.5	16.13	3.24	30.84	100	360	Peak
5	561.8	35.26	-10.74	46	44.14	18.07	3.76	30.71	100	360	Peak
6	701.8	35.59	-10.41	46	43.02	18.91	4.25	30.59	100	360	Peak



- Polarization : Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



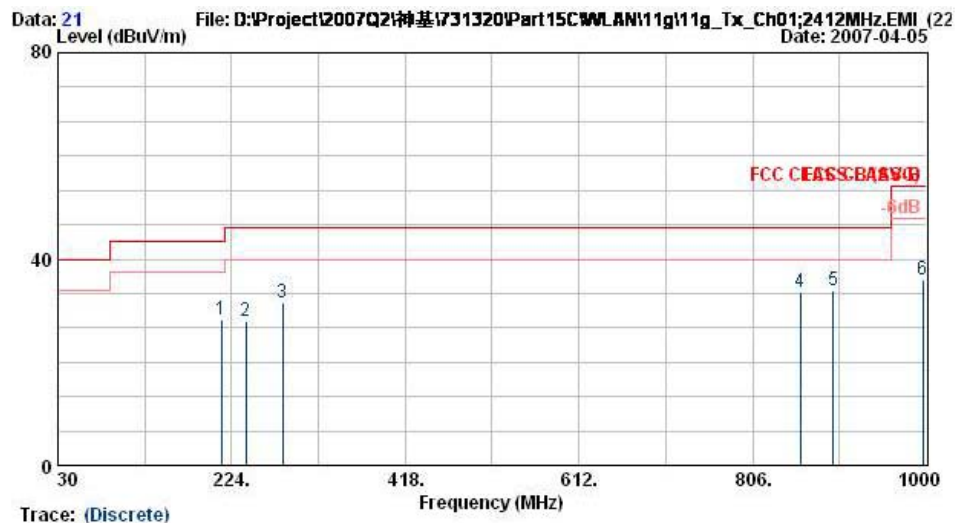
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	1324	48.91	-25.09	74	56.67	25.44	2.8	36	100	360	Peak
2	1324	33.44	-20.56	54	41.2	25.44	2.8	36	100	273	Average
3	! 2358	48.06	-5.94	54	49.53	30.24	3.71	35.42	126	214	Average
4	2358	52.1	-21.9	74	53.57	30.24	3.71	35.42	100	360	Peak
5	X 2462	96.07	42.07	54	97.43	30.29	3.84	35.49	126	214	Average
6	X 2462	107.65	33.65	74	109.01	30.29	3.84	35.49	100	360	Peak
7	2483.5	59.76	-14.24	74	61.12	30.29	3.86	35.51	100	360	Peak
8	! 2483.5	50.14	-3.86	54	51.5	30.29	3.86	35.51	126	214	Average
9	8007	57.25	-16.75	74	45.7	39.6	7.81	35.86	100	360	Peak
10	8007	45.97	-8.03	54	34.42	39.6	7.81	35.86	100	360	Average
11	9846	49.27	-24.73	74	86.26	-9.63	9.18	36.54	100	360	Peak
12	! 9846	48.99	-5.01	54	85.98	-9.63	9.18	36.54	128	106	Average
13	12306	43	-31	74	79.35	-10.65	10.68	36.38	100	360	Peak
14	14772	44.65	-29.35	74	75.35	-6.38	11.47	35.79	100	360	Peak
15	17232	43.33	-30.67	74	77.57	-11.07	12.34	35.51	100	360	Peak

Remark: "X" represents the Fundamental Signal



- Test Mode : Mode 4
- Polarization : Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

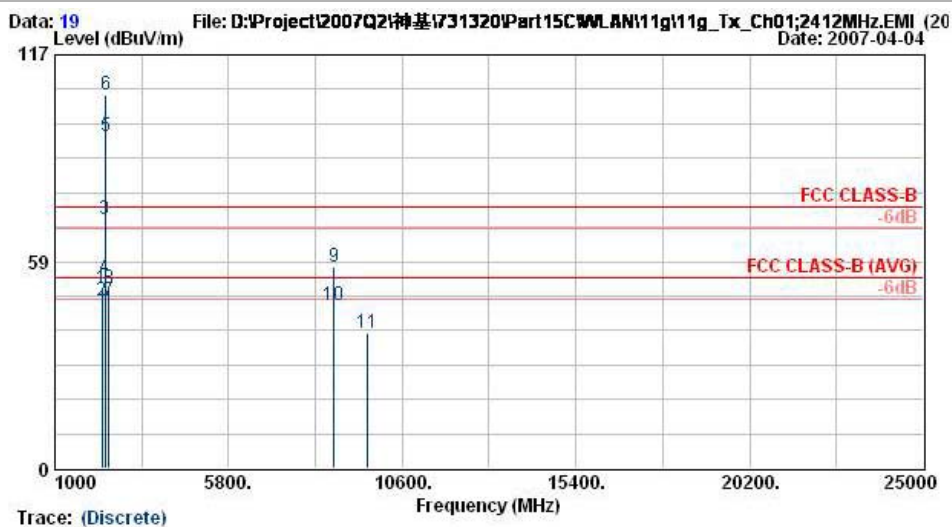


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	212.79	28.31	-15.19	43.5	47.13	10.04	2.17	31.03	100	360	Peak
2	239.79	27.84	-18.16	46	44.81	11.64	2.32	30.93	100	360	Peak
3	280.83	31.47	-14.53	46	47.01	12.86	2.57	30.97	100	360	Peak
4	859.3	33.58	-12.42	46	39.08	20.24	4.68	30.42	100	360	Peak
5	896.4	33.78	-12.22	46	38.84	20.5	4.81	30.37	126	287	QP
6	995.8	36.12	-17.88	54	40.05	21.21	5.13	30.27	100	360	Peak



- Polarization : Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



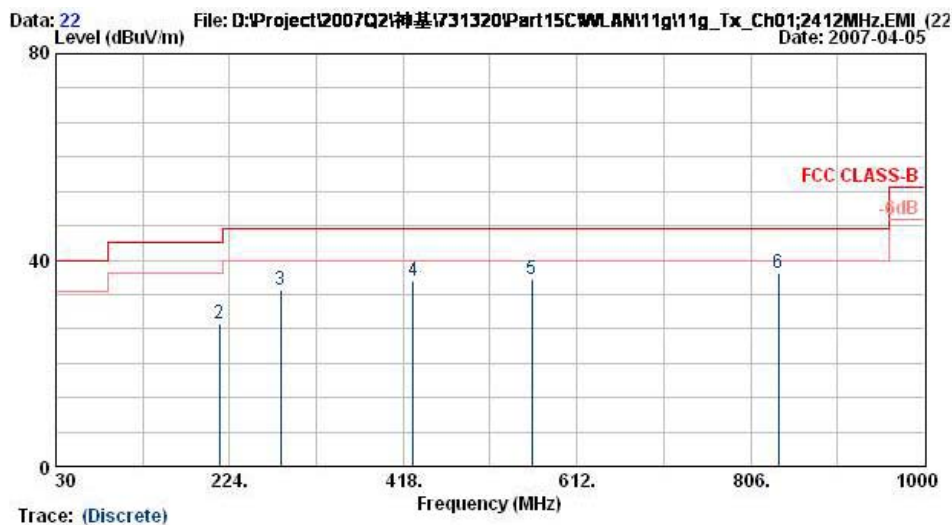
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	2308	51.08	-22.92	74	52.59	30.22	3.66	35.39	100	360	Peak
2	2308	47.5	-6.5	54	49.01	30.22	3.66	35.39	100	218	Average
3	!	2390	-3.56	74	71.89	30.26	3.75	35.46	100	360	Peak
4	!	2390	-0.08	54	55.37	30.26	3.75	35.46	100	218	Average
5	X	2412	39.98	54	95.4	30.27	3.77	35.46	100	218	Average
6	X	2412	31.48	74	106.9	30.27	3.77	35.46	100	360	Peak
7		2488	-6.48	54	48.87	30.3	3.86	35.51	100	218	Average
8		2488	-23.18	74	52.17	30.3	3.86	35.51	100	360	Peak
9		8706	-17.19	74	45.46	38.92	8.69	36.26	100	360	Peak
10		8706	-7.74	54	34.91	38.92	8.69	36.26	100	360	Average
11		9651	-35.64	74	75.99	-10.07	9.12	36.68	100	360	Peak

Remark: "X" represents the Fundamental Signal



- Polarization : Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

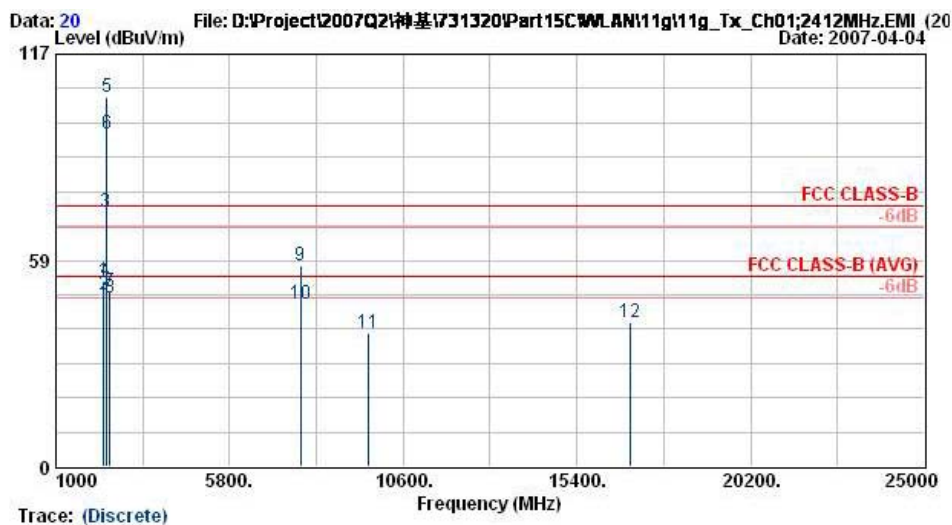


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	30.54	31.97	-8.03	40	43.6	18.95	0.85	31.43	142	331	QP
2	212.79	27.55	-15.95	43.5	46.37	10.04	2.17	31.03	100	360	Peak
3	280.83	34.28	-11.72	46	49.82	12.86	2.57	30.97	100	360	Peak
4	428.8	35.95	-10.05	46	47.29	16.24	3.26	30.84	100	360	Peak
5	561.8	36.25	-9.75	46	45.13	18.07	3.76	30.71	100	360	Peak
6	836.9	37.39	-8.61	46	43.12	20.08	4.64	30.45	100	360	Peak



- Polarization : Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



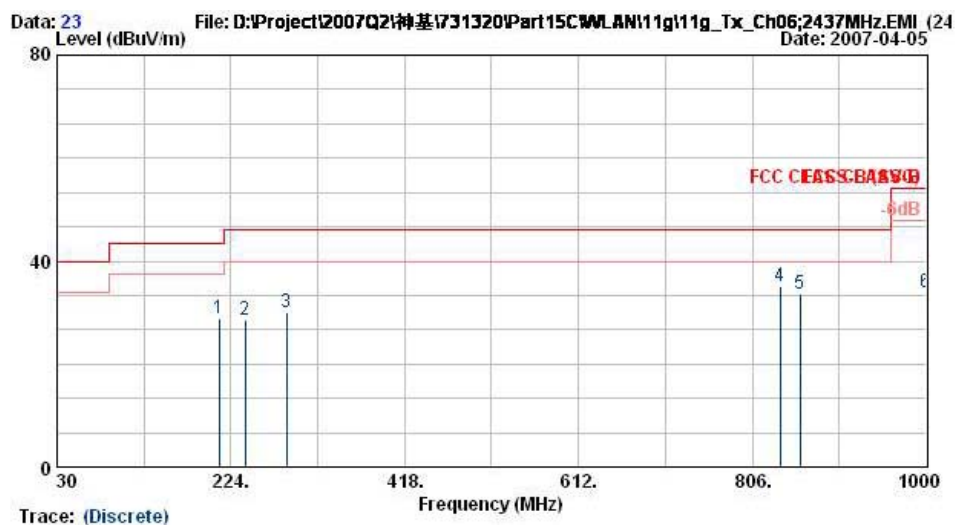
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	2314	52.42	-21.58	74	53.94	30.22	3.66	35.4	100	360	Peak
2	2314	48.91	-5.09	54	50.43	30.22	3.66	35.4	100	306	Average
3	2390	72.05	-1.95	74	73.5	30.26	3.75	35.46	100	360	Peak
4	2390	52.51	-1.49	54	53.96	30.26	3.75	35.46	100	306	Average
5	X 2412	104.72	30.72	74	106.14	30.27	3.77	35.46	100	360	Peak
6	X 2412	94.44	40.44	54	95.86	30.27	3.77	35.46	100	306	Average
7	2488	49.58	-24.42	74	50.93	30.3	3.86	35.51	100	360	Peak
8	! 2488	48.01	-5.99	54	49.36	30.3	3.86	35.51	100	306	Average
9	7767	56.89	-17.11	74	45.86	39.27	7.71	35.95	100	360	Peak
10	7767	46.04	-7.96	54	35.01	39.27	7.71	35.95	100	360	Average
11	9642	38.02	-35.98	74	75.67	-10.09	9.12	36.68	100	360	Peak
12	16872	40.67	-33.33	74	73.01	-10.1	11.98	34.22	100	360	Peak

Remark: "X" represents the Fundamental Signal



- Test Mode : Mode 5
- Polarization : Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

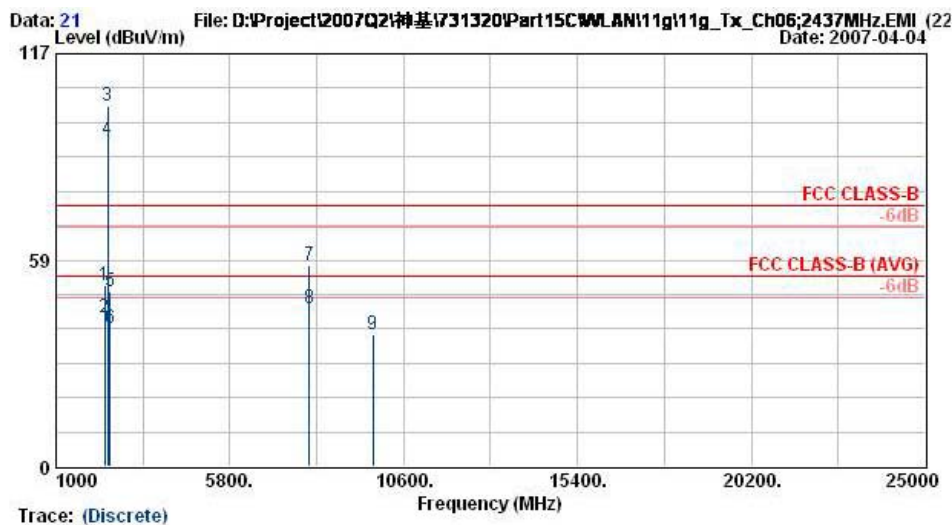


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	210.63	28.82	-14.68	43.5	47.75	9.93	2.17	31.03	100	360	Peak
2	239.79	28.66	-17.34	46	45.63	11.64	2.32	30.93	100	360	Peak
3	286.23	30.17	-15.83	46	45.59	12.95	2.59	30.96	100	360	Peak
4	836.9	35.12	-10.88	46	40.85	20.08	4.64	30.45	136	295	QP
5	859.3	33.5	-12.5	46	39	20.24	4.68	30.42	100	360	Peak
6	1000	33.92	-20.08	54	37.81	21.24	5.14	30.27	100	360	Peak



- Polarization : Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



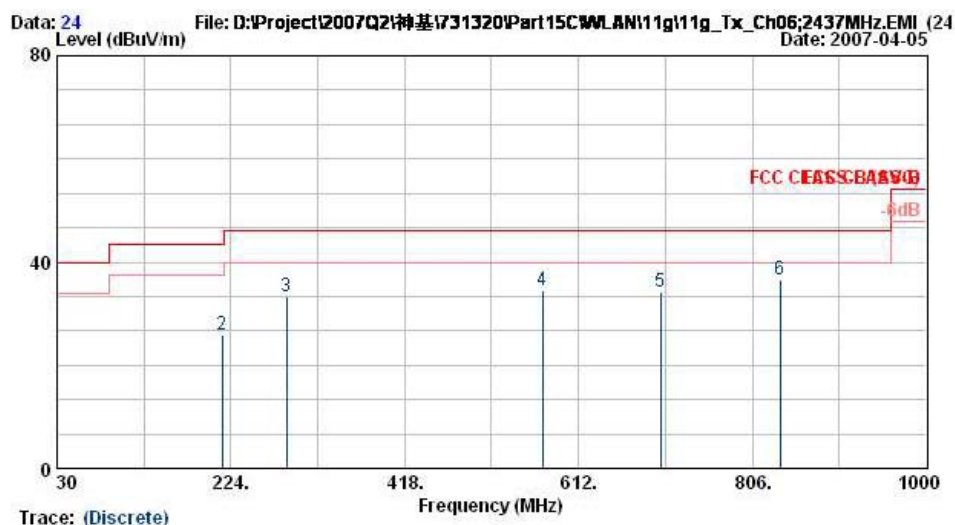
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	2334	51.12	-22.88	74	52.6	30.23	3.69	35.4	100	360	Peak
2	2334	42.33	-11.67	54	43.81	30.23	3.69	35.4	128	326	Average
3	X 2437	102.39	28.39	74	103.8	30.27	3.79	35.47	100	360	Peak
4	X 2437	92.62	38.62	54	94.01	30.28	3.82	35.49	128	326	Average
5	2498	49.79	-24.21	74	51.14	30.3	3.88	35.53	100	360	Peak
6	2498	39.16	-14.84	54	40.51	30.3	3.88	35.53	128	326	Average
7	7992	56.78	-17.22	74	45.26	39.58	7.79	35.85	100	360	Peak
8	7992	44.95	-9.05	54	33.43	39.58	7.79	35.85	100	360	Average
9	9741	37.41	-36.59	74	74.74	-9.87	9.15	36.61	100	360	Peak

Remark: "X" represents the Fundamental Signal



- Polarization : Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

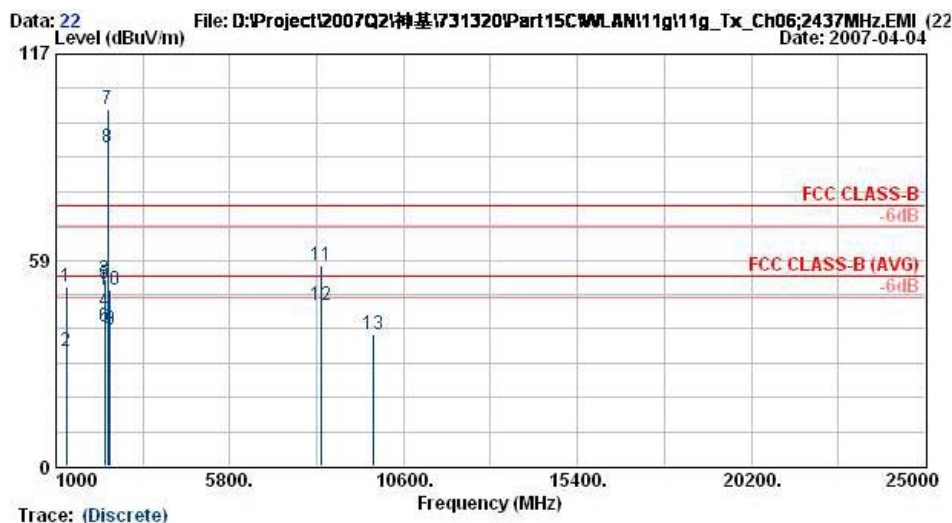


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	30	31.66	-8.34	40	42.62	19.66	0.84	31.46	132	261	QP
2	214.68	25.95	-17.55	43.5	44.65	10.16	2.17	31.03	100	360	Peak
3	286.23	33.21	-12.79	46	48.63	12.95	2.59	30.96	100	360	Peak
4	572.3	34.37	-11.63	46	43.1	18.18	3.79	30.7	100	360	Peak
5	703.9	34.21	-11.79	46	41.61	18.93	4.26	30.59	100	360	Peak
6	836.9	36.68	-9.32	46	42.41	20.08	4.64	30.45	100	360	Peak



- Polarization : Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



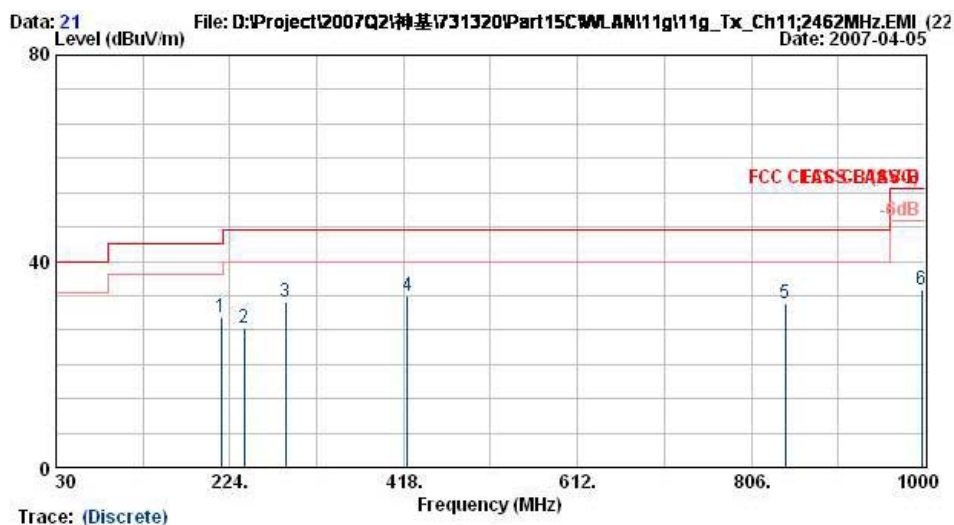
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	1284	50.68	-23.32	74	58.68	25.31	2.79	36.1	100	360	Peak
2	1284	32.47	-21.53	54	40.47	25.31	2.79	36.1	100	280	Average
3	2334	53.08	-20.92	74	54.56	30.23	3.69	35.4	100	360	Peak
4	2334	44.14	-29.86	74	45.62	30.23	3.69	35.4	100	306	Peak
5	2354	51.57	-22.43	74	53.04	30.24	3.71	35.42	100	360	Peak
6	2354	39.44	-14.56	54	40.91	30.24	3.71	35.42	100	306	Average
7	X 2437	101.35	27.35	74	102.76	30.27	3.79	35.47	100	360	Peak
8	X 2437	90.36	36.36	54	91.73	30.28	3.82	35.47	100	306	Average
9	2488	38.52	-15.48	54	39.87	30.3	3.86	35.51	100	306	Average
10	2488	50.04	-23.96	74	51.39	30.3	3.86	35.51	100	360	Peak
11	8307	56.77	-17.23	74	45.3	39.35	8.14	36.02	100	360	Peak
12	8307	45.6	-8.4	54	34.13	39.35	8.14	36.02	100	360	Average
13	9741	37.53	-36.47	74	74.86	-9.87	9.15	36.61	100	360	Peak

Remark: "X" represents the Fundamental Signal



- Test Mode : Mode 6
- Polarization : Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

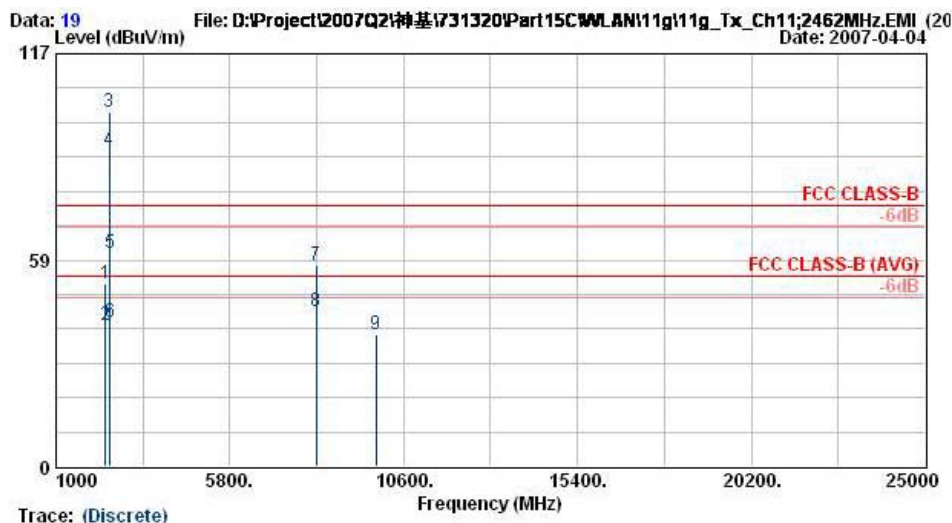


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	214.68	29.17	-14.33	43.5	47.87	10.16	2.17	31.03	100	360	Peak
2	239.79	27.18	-18.82	46	44.15	11.64	2.32	30.93	100	360	Peak
3	286.23	32.09	-13.91	46	47.51	12.95	2.59	30.96	100	360	Peak
4	421.8	33.34	-12.66	46	44.81	16.13	3.24	30.84	133	279	QP
5	843.9	31.94	-14.06	46	37.6	20.13	4.65	30.44	100	360	Peak
6	995.8	34.62	-19.38	54	38.55	21.21	5.13	30.27	100	360	Peak



- Polarization : Horizontal (1GHz-25GHz)

- The test that passed at minimum margin was marked by the boldface in the following table.



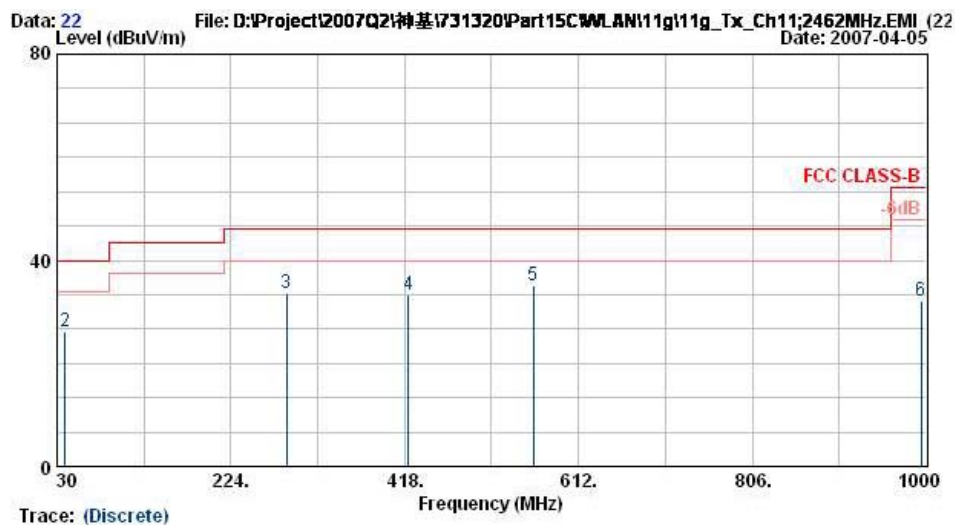
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	2358	51.96	-22.04	74	53.43	30.24	3.71	35.42	100	0	Peak
2	2358	40.05	-13.95	54	41.52	30.24	3.71	35.42	100	232	Average
3	X 2462	100.66	26.66	74	102.02	30.29	3.84	35.49	100	0	Peak
4	X 2462	89.53	35.53	54	90.89	30.29	3.84	35.49	100	232	Average
5	2483.5	60.32	-13.68	74	61.68	30.29	3.86	35.51	100	0	Peak
6	2483.5	41.02	-12.98	54	42.38	30.29	3.86	35.51	100	232	Average
7	8187	56.87	-17.13	74	45.38	39.45	8	35.96	100	360	Peak
8	8187	44.07	-9.93	54	32.58	39.45	8	35.96	100	360	Average
9	9846	37.5	-36.5	74	74.49	-9.63	9.18	36.54	100	360	Peak

Remark: "X" represents the Fundamental Signal



- Polarization : Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

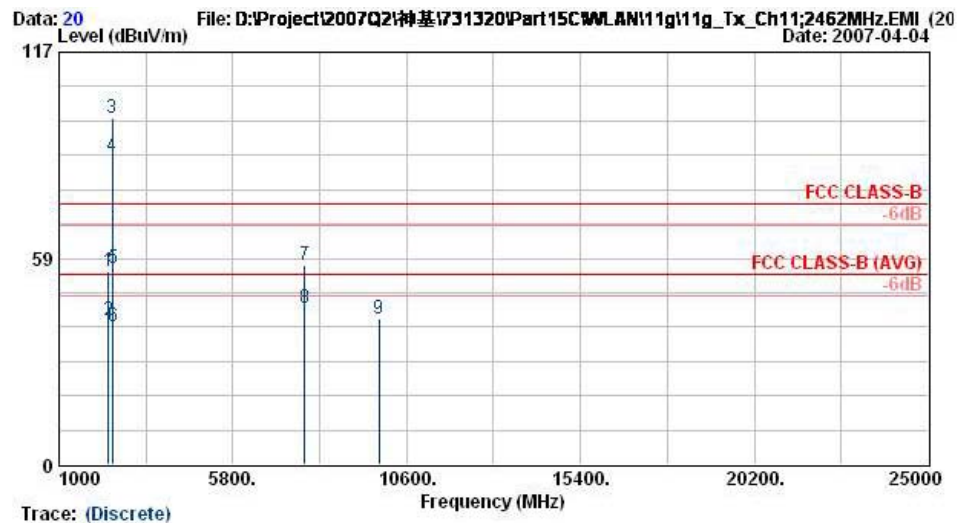


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	30	31.83	-8.17	40	42.79	19.66	0.84	31.46	164	310	QP
2	39.18	26.08	-13.92	40	42.35	14.03	0.91	31.21	100	360	Peak
3	286.23	33.6	-12.4	46	49.02	12.95	2.59	30.96	100	360	Peak
4	421.8	33.37	-12.63	46	44.84	16.13	3.24	30.84	100	360	Peak
5	561.8	35.07	-10.93	46	43.95	18.07	3.76	30.71	100	360	Peak
6	994.4	32.26	-21.74	54	36.21	21.2	5.12	30.27	100	360	Peak



- Polarization : Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



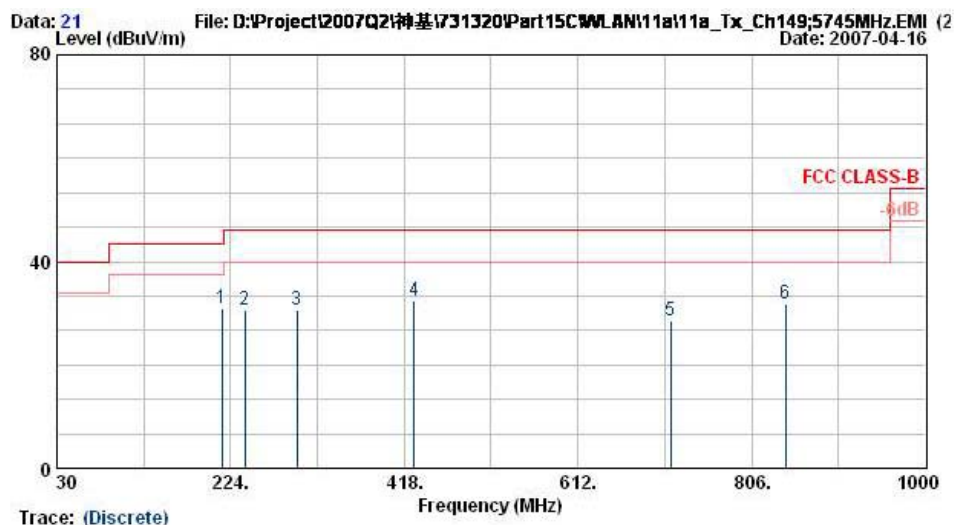
	Frequency (MHz)	Level (dBUV/m)	Over Limit (dB)	Limit Line (dBUV/m)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	2358	54.68	-19.32	74	56.15	30.24	3.71	35.42	100	0	Peak
2	2358	41	-13	54	42.47	30.24	3.71	35.42	100	304	Average
3	X 2462	98.19	24.19	74	99.55	30.29	3.84	35.49	100	0	Peak
4	X 2462	87.49	33.49	54	88.85	30.29	3.84	35.49	100	304	Average
5	2483.615	55.49	-18.51	74	56.85	30.29	3.86	35.51	100	0	Peak
6	2483.615	39.19	-14.81	54	40.55	30.29	3.86	35.51	100	304	Average
7	7791	56.63	-17.37	74	45.56	39.3	7.71	35.94	100	360	Peak
8	7791	44.26	-9.74	54	33.19	39.3	7.71	35.94	100	360	Average
9	9846	41.33	-32.67	74	78.32	-9.63	9.18	36.54	100	360	Peak

Remark: "X" represents the Fundamental Signal



- Test Mode : Mode 7
- Polarization : Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

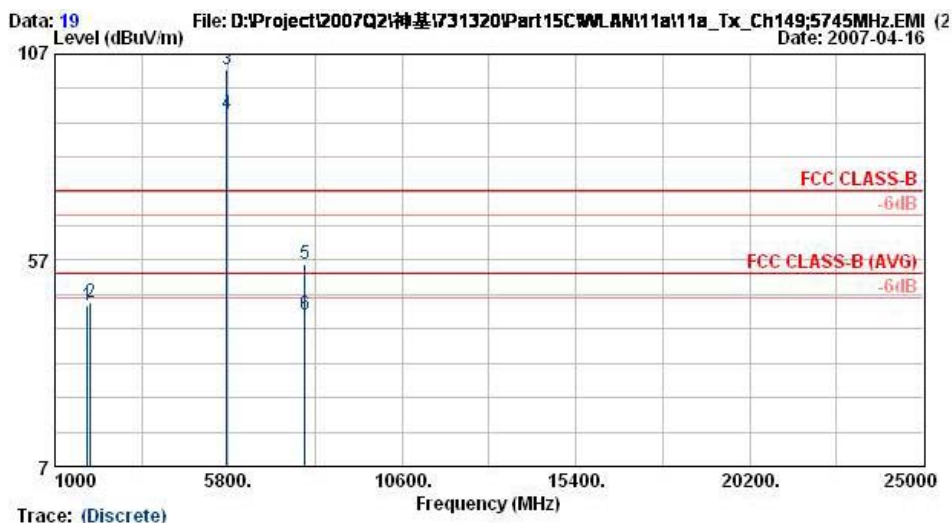


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	214.68	30.87	-12.63	43.5	49.57	10.16	2.17	31.03	100	289	Peak
2	239.79	30.66	-15.34	46	47.63	11.64	2.32	30.93	100	360	Peak
3	298.38	30.57	-15.43	46	45.69	13.19	2.63	30.94	100	360	Peak
4	428.8	32.3	-13.7	46	43.64	16.24	3.26	30.84	100	360	Peak
5	715.8	28.59	-17.41	46	35.84	19.03	4.29	30.57	100	360	Peak
6	843.9	31.93	-14.07	46	37.59	20.13	4.65	30.44	100	360	Peak



- Polarization : Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



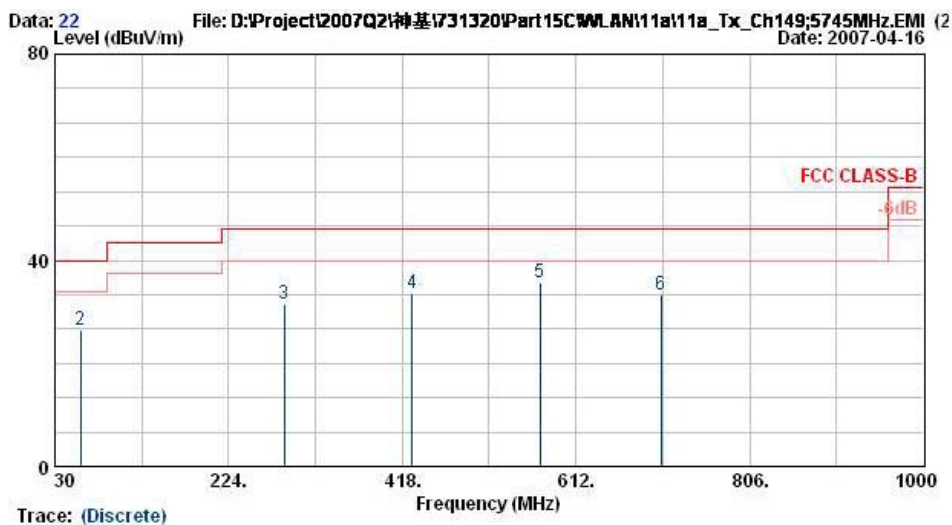
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	1898	46.1	-27.9	74	48.86	29.3	3.22	35.28	100	360	Peak
2	1994	46.73	-27.27	74	48.63	29.97	3.3	35.17	100	360	Peak
3	X 5745	103.32	29.32	74	98.43	33.84	6.9	35.85	100	0	Peak
4	X 5745	92.53	38.53	54	87.64	33.84	6.9	35.85	100	53	Average
5	7908	56.06	-17.94	74	44.72	39.46	7.76	35.88	100	360	Peak
6	7908	43.98	-10.02	54	32.64	39.46	7.76	35.88	100	227	Average

Remark: "X" represents the Fundamental Signal



- Polarization : Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

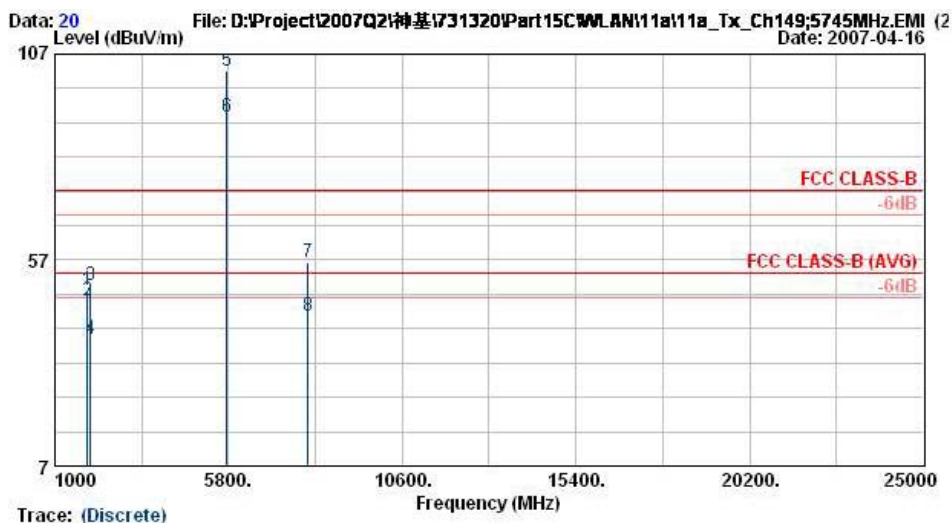


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	30	33.83	-6.17	40	44.79	19.66	0.84	31.46	100	66	Peak
2	58.89	26.44	-13.56	40	49.79	6.77	1.11	31.23	100	360	Peak
3	286.23	31.5	-14.5	46	46.92	12.95	2.59	30.96	100	360	Peak
4	428.8	33.73	-12.27	46	45.07	16.24	3.26	30.84	100	360	Peak
5	572.3	35.77	-10.23	46	44.5	18.18	3.79	30.7	100	360	Peak
6	707.4	33.32	-12.68	46	40.68	18.95	4.27	30.58	100	360	Peak



- Polarization : Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



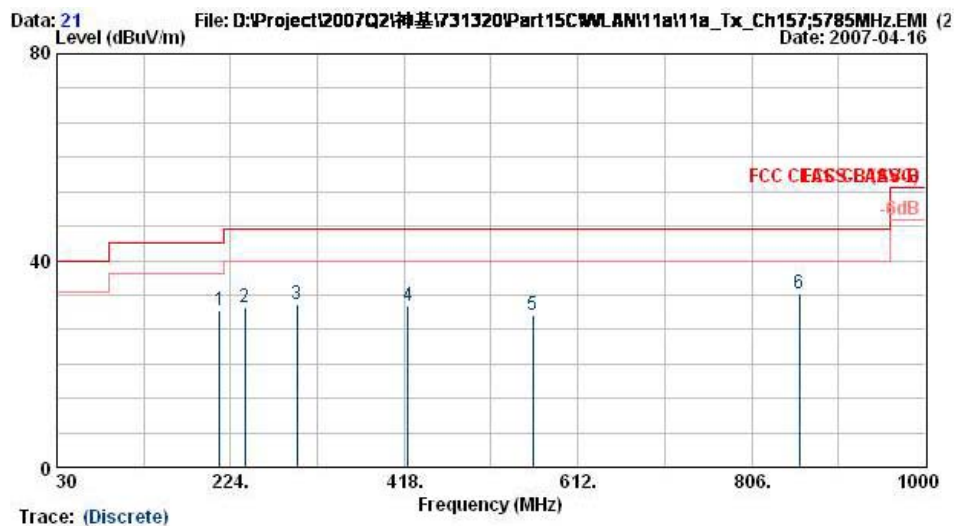
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	1898	49.82	-24.18	74	52.58	29.3	3.22	35.28	100	360	Peak
2	1898	46.99	-7.01	54	49.75	29.3	3.22	35.28	100	267	Average
3	1994	50.94	-23.06	74	52.84	29.97	3.3	35.17	100	360	Peak
4	1994	37.83	-16.17	54	39.73	29.97	3.3	35.17	100	262	Average
5	X 5745	102.86	28.86	74	97.97	33.84	6.9	35.85	100	0	Peak
6	X 5745	91.88	37.88	54	86.99	33.84	6.9	35.85	100	41	Average
7	8004	56.54	-17.46	74	44.99	39.6	7.81	35.86	100	360	Peak
8	8004	43.44	-10.56	54	31.89	39.6	7.81	35.86	100	207	Average

Remark: "X" represents the Fundamental Signal



- Test Mode : Mode 8
- Polarization : Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

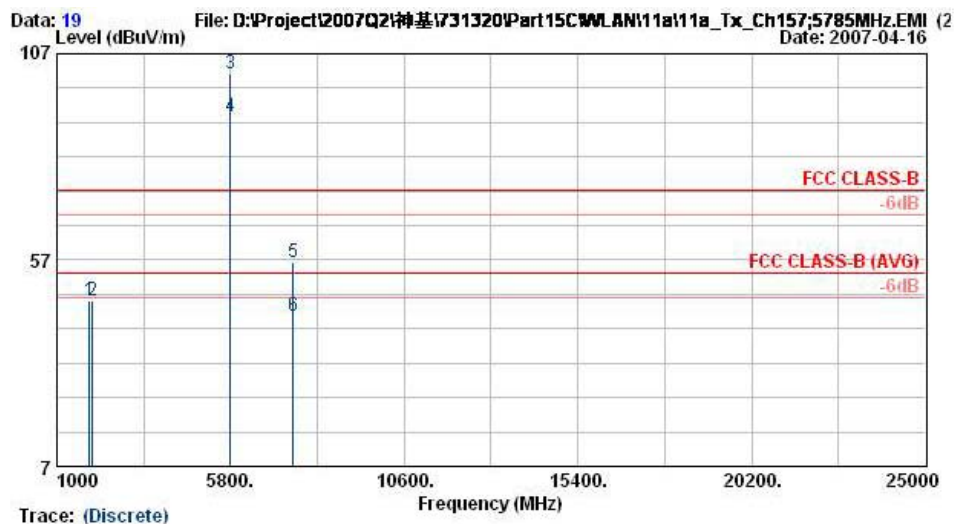


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	211.44	30.46	-13.04	43.5	49.33	9.99	2.17	31.03	100	360	Peak
2	239.79	31	-15	46	47.97	11.64	2.32	30.93	100	360	Peak
3	298.38	31.64	-14.36	46	46.76	13.19	2.63	30.94	100	360	Peak
4	421.8	31.15	-14.85	46	42.62	16.13	3.24	30.84	100	360	Peak
5	561.8	29.46	-16.54	46	38.34	18.07	3.76	30.71	100	360	Peak
6	859.3	33.61	-12.39	46	39.11	20.24	4.68	30.42	100	238	Peak



- Polarization : Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



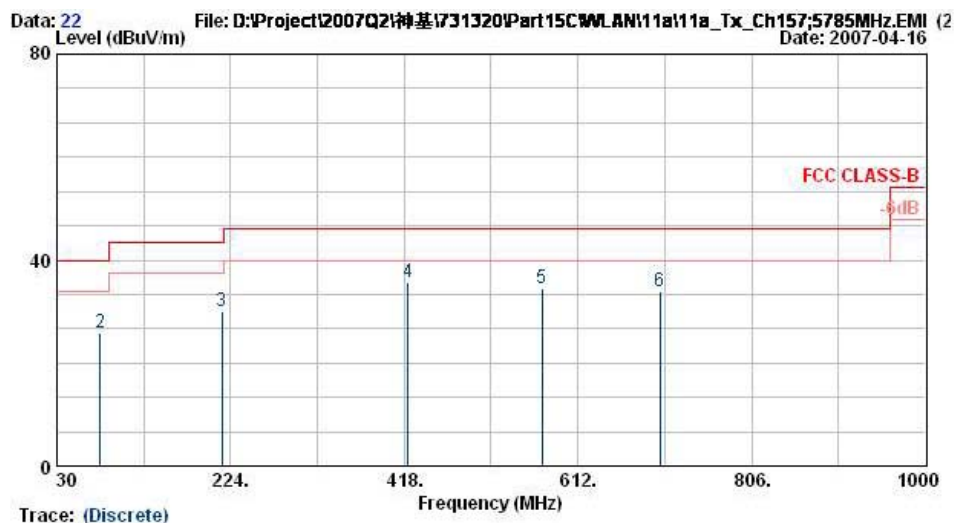
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	1898	46.97	-27.03	74	49.73	29.3	3.22	35.28	100	360	Peak
2	1988	47.07	-26.93	74	48.97	29.97	3.3	35.17	100	360	Peak
3	X 5785	102.2	28.2	74	97.22	33.88	6.91	35.81	100	0	Peak
4	X 5785	91.71	37.71	54	86.73	33.88	6.91	35.81	100	63	Average
5	7534	56.47	-17.53	74	45.95	38.95	7.62	36.05	100	360	Peak
6	7534	43.46	-10.54	54	32.94	38.95	7.62	36.05	100	232	Average

Remark: "X" represents the Fundamental Signal



- Polarization : Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

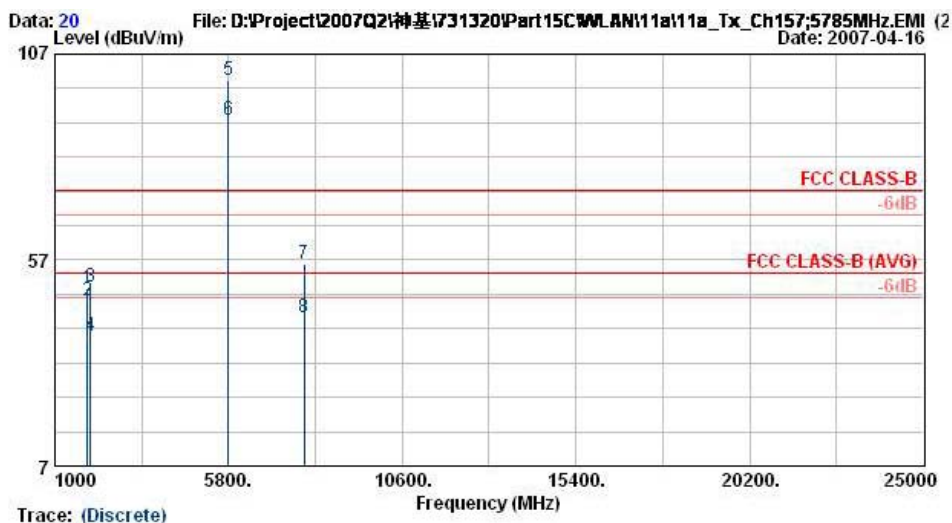


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	30	33.42	-6.58	40	44.38	19.66	0.84	31.46	100	96	Peak
2	78.33	25.78	-14.22	40	48.16	7.41	1.31	31.1	100	360	Peak
3	214.68	29.95	-13.55	43.5	48.65	10.16	2.17	31.03	100	360	Peak
4	421.8	35.7	-10.3	46	47.17	16.13	3.24	30.84	100	360	Peak
5	572.3	34.38	-11.62	46	43.11	18.18	3.79	30.7	100	360	Peak
6	703.9	33.95	-12.05	46	41.35	18.93	4.26	30.59	100	360	Peak



- Polarization : Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



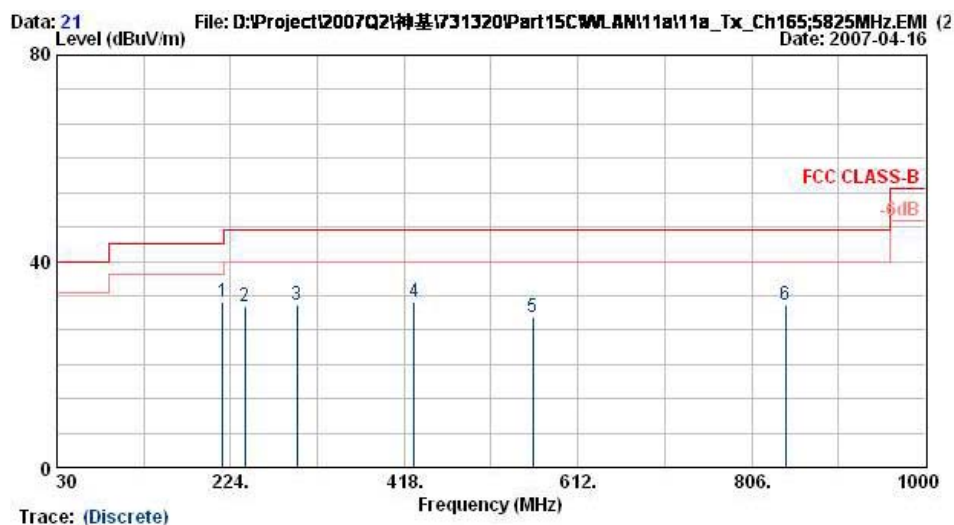
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	1898	50.06	-23.94	74	52.82	29.3	3.22	35.28	100	360	Peak
2	1898	46.99	-7.01	54	49.75	29.3	3.22	35.28	100	267	Average
3	1994	50.58	-23.42	74	52.48	29.97	3.3	35.17	100	360	Peak
4	1994	38.62	-15.38	54	40.52	29.97	3.3	35.17	100	265	Average
5	X 5785	100.81	26.81	74	95.85	33.88	6.91	35.83	100	0	Peak
6	X 5785	90.88	36.88	54	85.9	33.88	6.91	35.81	100	45	Average
7	7888	56.17	-17.83	74	44.86	39.44	7.76	35.89	100	360	Peak
8	7888	43.17	-10.83	54	31.86	39.44	7.76	35.89	100	210	Average

Remark: "X" represents the Fundamental Signal



- Test Mode : Mode 9
- Polarization : Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

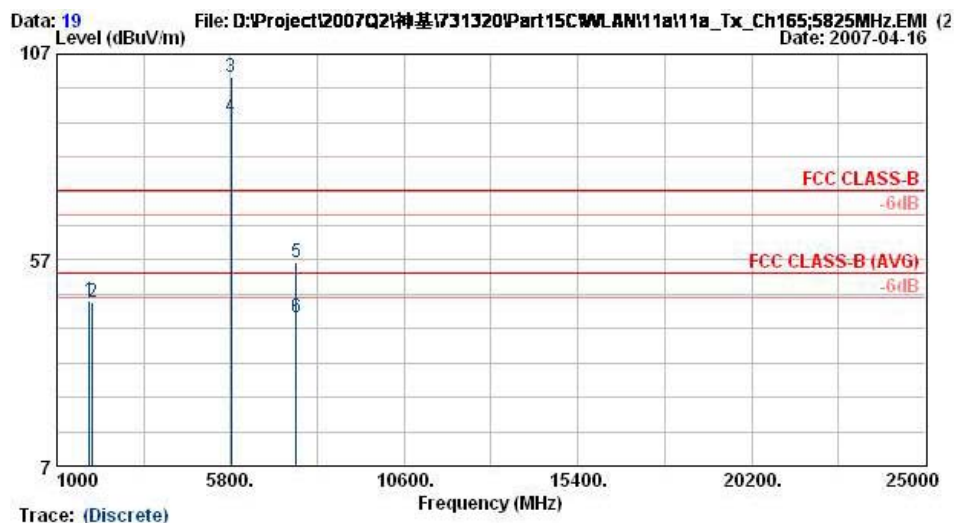


	Frequency (MHz)	Level (dBUV/m)	Over Limit (dB)	Limit Line (dBUV/m)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	215.49	32.11	-11.39	43.5	50.76	10.21	2.17	31.03	100	249	Peak
2	239.79	31.19	-14.81	46	48.16	11.64	2.32	30.93	100	360	Peak
3	298.38	31.47	-14.53	46	46.59	13.19	2.63	30.94	100	360	Peak
4	428.8	32.1	-13.9	46	43.44	16.24	3.26	30.84	100	360	Peak
5	561.8	29.14	-16.86	46	38.02	18.07	3.76	30.71	100	360	Peak
6	843.9	31.43	-14.57	46	37.09	20.13	4.65	30.44	100	360	Peak



- Polarization : Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



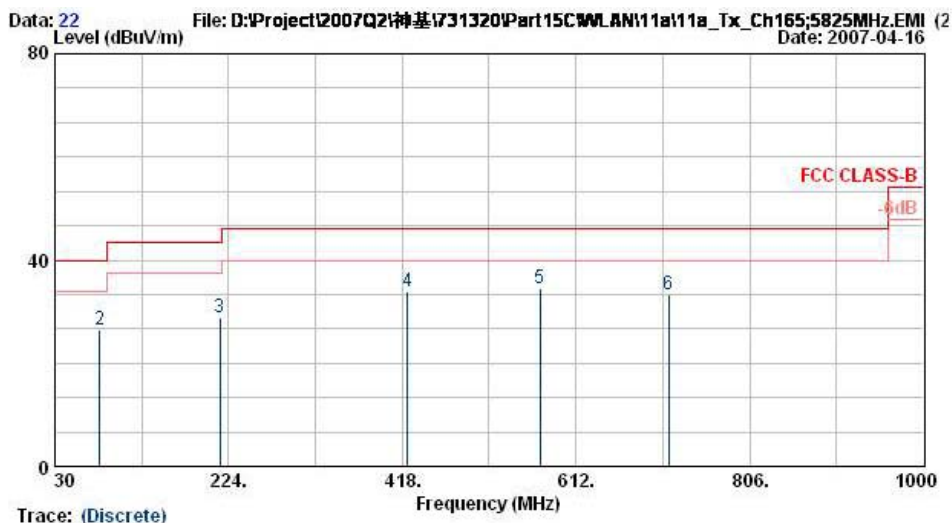
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	1898	47.21	-26.79	74	49.97	29.3	3.22	35.28	100	360	Peak
2	1994	46.8	-27.2	74	48.7	29.97	3.3	35.17	100	360	Peak
3	X 5825	101.38	27.38	74	96.35	33.91	6.92	35.8	100	0	Peak
4	X 5825	91.63	37.63	54	86.58	33.93	6.92	35.8	100	66	Average
5	7604	56.41	-17.59	74	45.73	39.04	7.65	36.01	100	360	Peak
6	7604	43.04	-10.96	54	32.36	39.04	7.65	36.01	100	240	Average

Remark: "X" represents the Fundamental Signal



- Polarization : Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

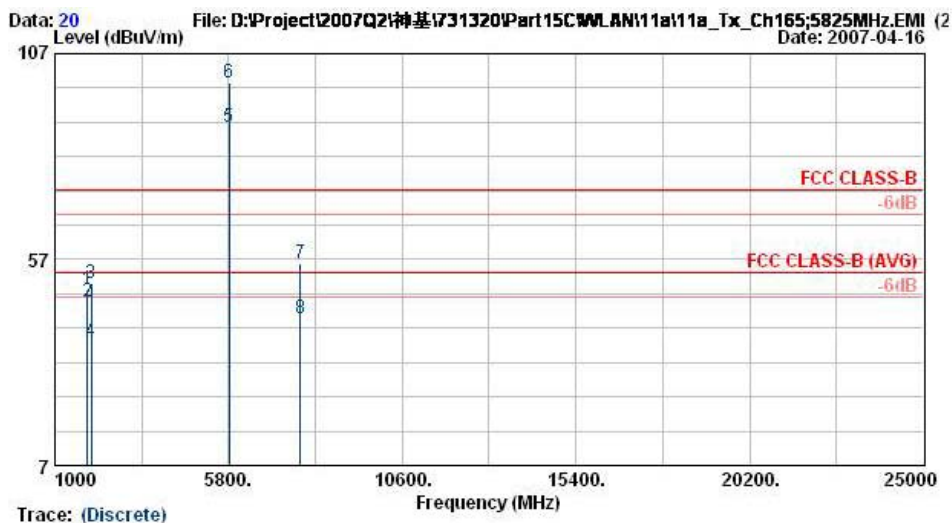


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	30	33.42	-6.58	40	44.38	19.66	0.84	31.46	100	268	Peak
2	79.68	26.45	-13.55	40	48.77	7.46	1.31	31.09	100	360	Peak
3	214.68	28.83	-14.67	43.5	47.53	10.16	2.17	31.03	100	360	Peak
4	423.9	33.91	-12.09	46	45.34	16.16	3.25	30.84	100	360	Peak
5	572.3	34.64	-11.36	46	43.37	18.18	3.79	30.7	100	360	Peak
6	715.8	33.45	-12.55	46	40.7	19.03	4.29	30.57	100	360	Peak



- Polarization : Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



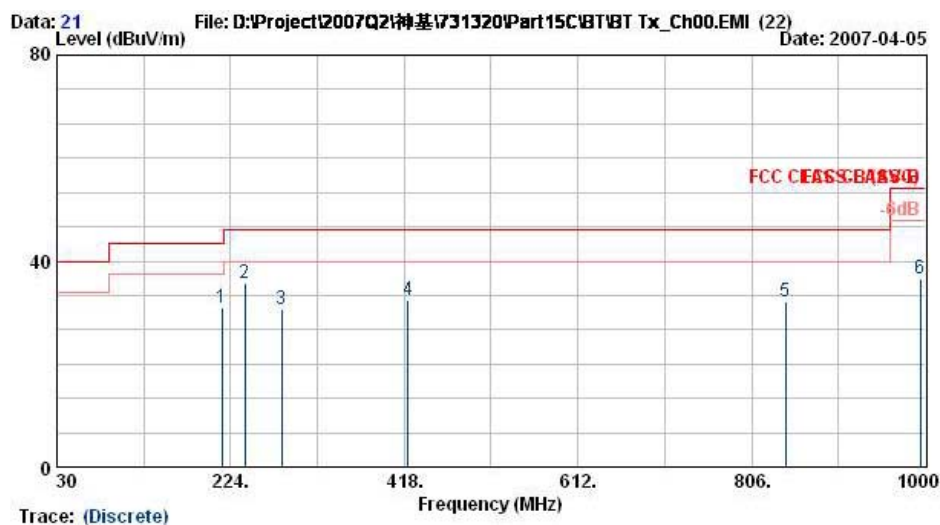
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	1898	49.74	-24.26	74	52.5	29.3	3.22	35.28	100	360	Peak
2	1898	46.78	-7.22	54	49.54	29.3	3.22	35.28	100	267	Average
3	1998	51.21	-22.79	74	52.96	30.1	3.32	35.17	100	360	Peak
4	1998	37.29	-16.71	54	39.04	30.1	3.32	35.17	100	262	Average
5	X 5825	89.13	35.13	54	84.08	33.93	6.92	35.8	100	84	Average
6	X 5825	99.87	25.87	74	94.82	33.93	6.92	35.8	100	0	Peak
7	7774	56.15	-17.85	74	45.11	39.27	7.71	35.94	100	360	Peak
8	7774	42.73	-11.27	54	31.69	39.27	7.71	35.94	100	216	Average

Remark: "X" represents the Fundamental Signal



- Test Mode : Mode 10
- Polarization : Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

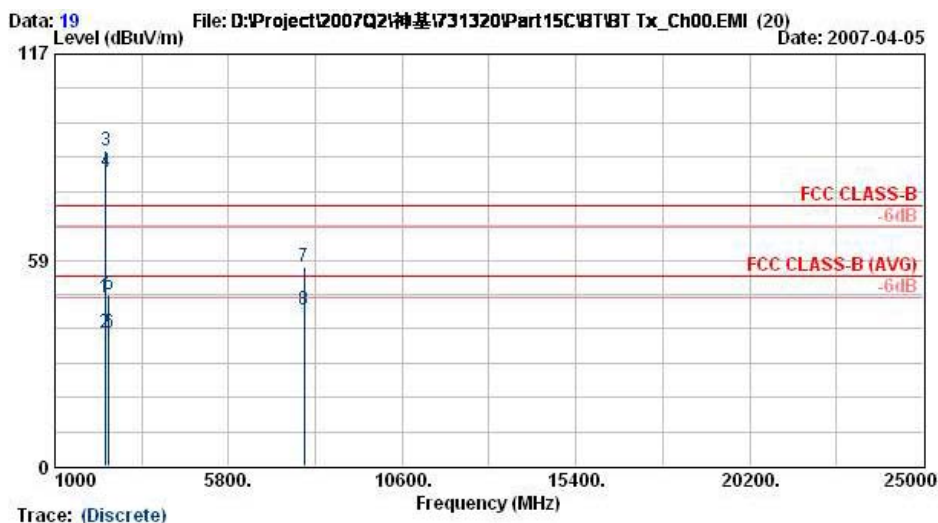


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	214.68	31.06	-12.44	43.5	49.76	10.16	2.17	31.03	100	360	Peak
2	239.79	35.76	-10.24	46	52.73	11.64	2.32	30.93	186	297	QP
3	280.83	30.74	-15.26	46	46.28	12.86	2.57	30.97	100	360	Peak
4	421.8	32.41	-13.59	46	43.88	16.13	3.24	30.84	100	360	Peak
5	843.9	32.03	-13.97	46	37.69	20.13	4.65	30.44	100	360	Peak
6	994.4	36.62	-17.38	54	40.57	21.2	5.12	30.27	100	360	Peak



- Polarization : Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



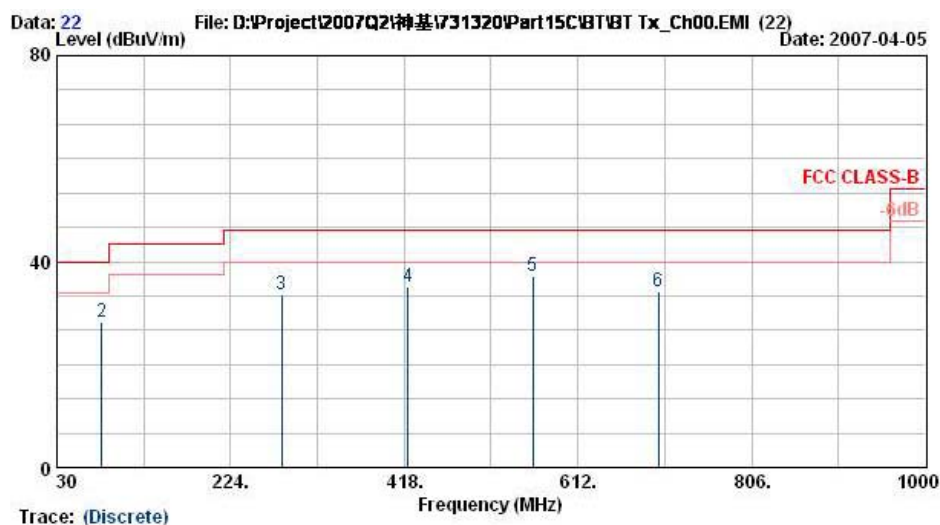
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	2390	47.81	-26.19	74	49.26	30.26	3.75	35.46	100	360	Peak
2	2390	37.9	-16.1	54	39.35	30.26	3.75	35.46	169	349	Average
3	X 2402	89.65	15.65	74	91.08	30.26	3.77	35.46	100	360	Peak
4	X 2402	83.36	29.36	54	84.79	30.26	3.77	35.46	169	349	Average
5	2484	48.86	-25.14	74	50.22	30.29	3.86	35.51	100	360	Peak
6	2484	37.79	-16.21	54	39.15	30.29	3.86	35.51	169	349	Average
7	7896	56.47	-17.53	74	45.14	39.46	7.76	35.89	100	360	Peak
8	7896	44.51	-9.49	54	33.18	39.46	7.76	35.89	100	360	Average

Remark: "X" represents the Fundamental Signal



- Polarization : Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

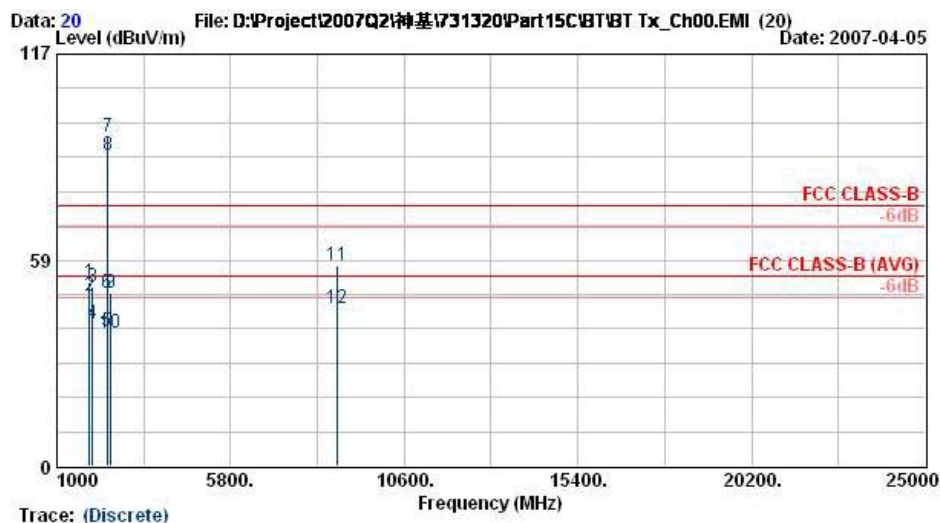


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	30	27.67	-12.33	40	38.63	19.66	0.84	31.46	100	360	Peak
2	79.68	28.13	-11.87	40	50.45	7.46	1.31	31.09	100	360	Peak
3	280.83	33.65	-12.35	46	49.19	12.86	2.57	30.97	100	360	Peak
4	421.8	35.21	-10.79	46	46.68	16.13	3.24	30.84	100	360	Peak
5	561.8	37.18	-8.82	46	46.06	18.07	3.76	30.71	149	143	QP
6	701.8	34.27	-11.73	46	41.7	18.91	4.25	30.59	100	360	Peak



- Polarization : Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



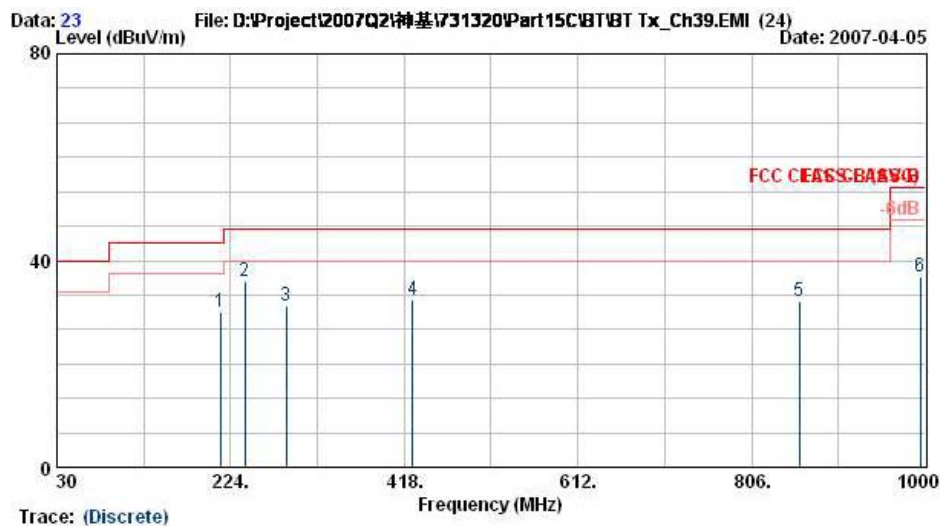
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	1898	51.98	-22.02	74	54.74	29.3	3.22	35.28	100	360	Peak
2	1898	48.34	-5.66	54	51.1	29.3	3.22	35.28	100	264	Average
3	1994	50.94	-23.06	74	52.84	29.97	3.3	35.17	100	360	Peak
4	1994	40.54	-13.46	54	42.44	29.97	3.3	35.17	100	267	Average
5	2390	38.14	-15.86	54	39.59	30.26	3.75	35.46	100	24	Average
6	2390	49.3	-24.7	74	50.75	30.26	3.75	35.46	100	360	Peak
7	X 2402	93.66	19.66	74	95.09	30.26	3.77	35.46	100	360	Peak
8	X 2402	88.37	34.37	54	89.8	30.26	3.77	35.46	100	24	Average
9	2494	49.33	-24.67	74	50.68	30.3	3.88	35.53	100	360	Peak
10	2494	38.05	-15.95	54	39.4	30.3	3.88	35.53	100	24	Average
11	8742	56.85	-17.15	74	45.55	38.87	8.72	36.29	100	360	Peak
12	8742	44.92	-9.08	54	33.62	38.87	8.72	36.29	100	360	Average

Remark: "X" represents the Fundamental Signal



- Test Mode : Mode 11
- Polarization : Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

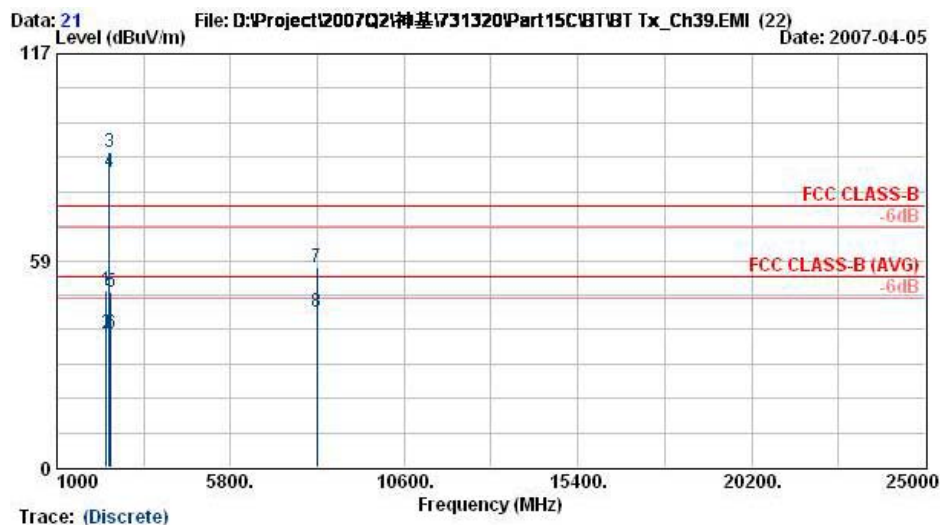


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	212.79	30.07	-13.43	43.5	48.89	10.04	2.17	31.03	100	360	Peak
2	239.79	35.96	-10.04	46	52.93	11.64	2.32	30.93	198	320	QP
3	286.23	31.13	-14.87	46	46.55	12.95	2.59	30.96	100	360	Peak
4	427.4	32.51	-13.49	46	43.86	16.23	3.26	30.84	100	360	Peak
5	859.3	32.09	-13.91	46	37.59	20.24	4.68	30.42	100	360	Peak
6	994.4	36.84	-17.16	54	40.79	21.2	5.12	30.27	100	360	Peak



- Polarization : Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



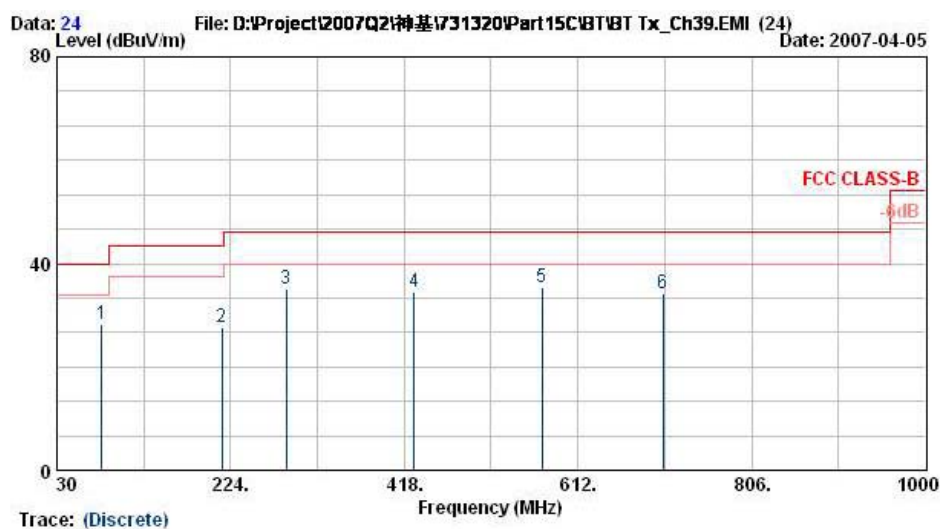
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	2364	49.87	-24.13	74	51.32	30.24	3.73	35.42	100	360	Peak
2	2364	37.98	-16.02	54	39.43	30.24	3.73	35.42	100	36	Average
3	X 2441	89.34	15.34	74	90.71	30.28	3.82	35.47	100	360	Peak
4	X 2441	83.48	29.48	54	84.87	30.28	3.82	35.49	100	36	Average
5	2488	49.37	-24.63	74	50.72	30.3	3.86	35.51	100	360	Peak
6	2488	37.82	-16.18	54	39.17	30.3	3.86	35.51	100	36	Average
7	8181	56.69	-17.31	74	45.19	39.46	8	35.96	100	360	Peak
8	8181	44.06	-9.94	54	32.56	39.46	8	35.96	100	360	Average

Remark: "X" represents the Fundamental Signal



- Polarization : Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

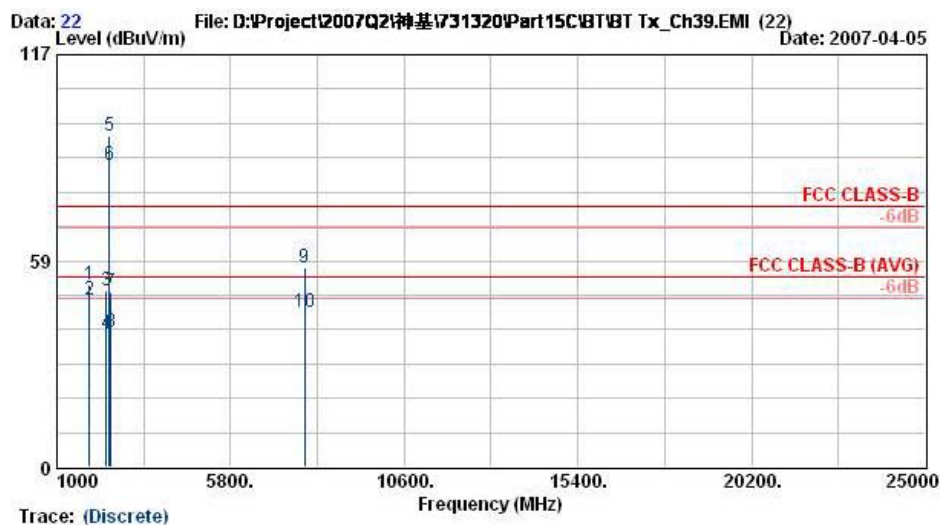


	Frequency (MHz)	Level (dBUV/m)	Over Limit (dB)	Limit Line (dBUV/m)	Read Level (dBUV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	79.68	28.19	-11.81	40	50.51	7.46	1.31	31.09	100	360	Peak
2	214.68	27.76	-15.74	43.5	46.46	10.16	2.17	31.03	100	360	Peak
3	286.23	35	-11	46	50.42	12.95	2.59	30.96	100	360	Peak
4	428.8	34.51	-11.49	46	45.85	16.24	3.26	30.84	100	360	Peak
5	572.3	35.45	-10.55	46	44.18	18.18	3.79	30.7	150	129	QP
6	707.4	34.34	-11.66	46	41.7	18.95	4.27	30.58	100	360	Peak



- Polarization : Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



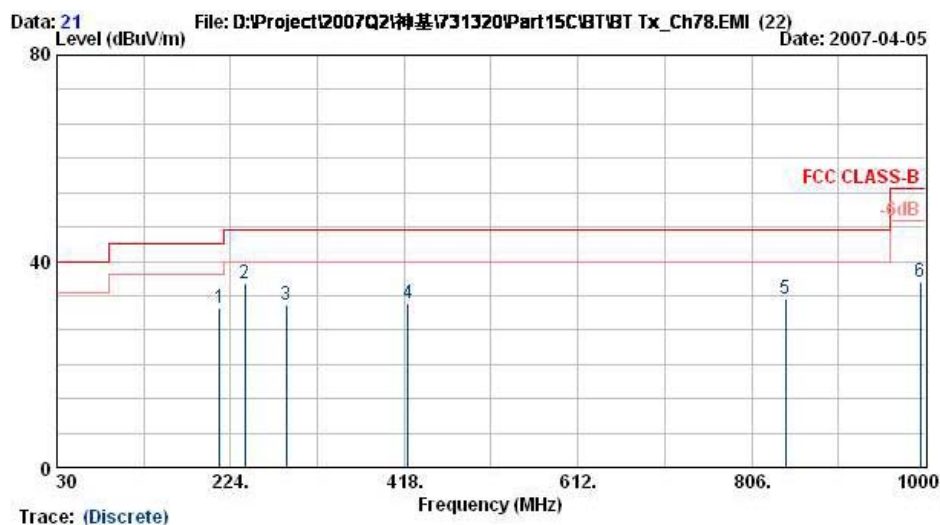
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	1898	51.93	-22.07	74	54.69	29.3	3.22	35.28	100	360	Peak
2	1898	47.24	-6.76	54	50	29.3	3.22	35.28	100	269	Average
3	2368	49.94	-24.06	74	51.41	30.24	3.73	35.44	100	360	Peak
4	2368	37.85	-16.15	54	39.32	30.24	3.73	35.44	100	37	Average
5	X 2441	93.82	19.82	74	95.19	30.28	3.82	35.47	100	360	Peak
6	X 2441	85.77	31.77	54	87.16	30.28	3.82	35.49	100	37	Average
7	2494	49.57	-24.43	74	50.92	30.3	3.88	35.53	100	360	Peak
8	2494	38.07	-15.93	54	39.42	30.3	3.88	35.53	100	37	Average
9	7851	56.43	-17.57	74	45.2	39.39	7.74	35.9	100	360	Peak
10	7851	44.09	-9.91	54	32.86	39.39	7.74	35.9	100	360	Average

Remark: "X" represents the Fundamental Signal



- Test Mode : Mode 12
- Polarization : Horizontal (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

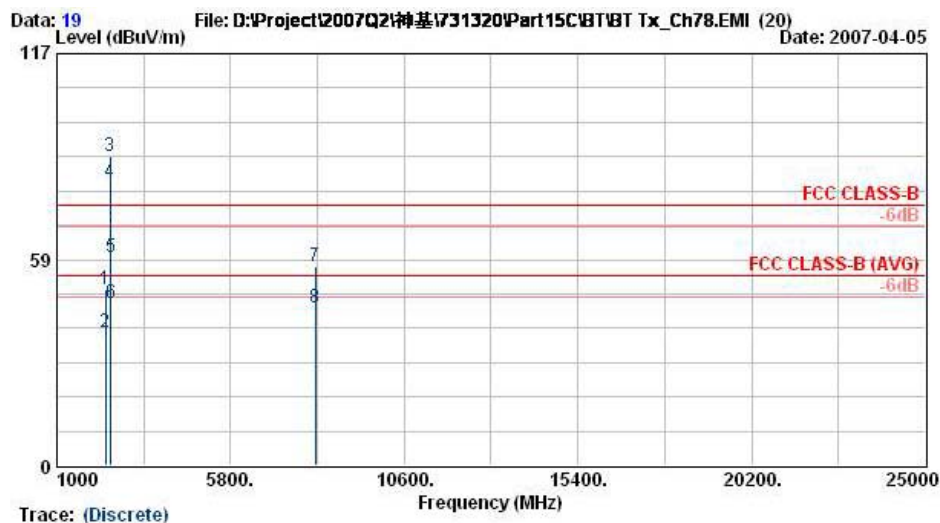


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	211.44	30.94	-12.56	43.5	49.81	9.99	2.17	31.03	100	360	Peak
2	239.79	35.58	-10.42	46	52.55	11.64	2.32	30.93	203	311	QP
3	286.23	31.42	-14.58	46	46.84	12.95	2.59	30.96	100	360	Peak
4	421.8	31.83	-14.17	46	43.3	16.13	3.24	30.84	100	360	Peak
5	843.9	32.84	-13.16	46	38.5	20.13	4.65	30.44	100	360	Peak
6	994.4	35.95	-18.05	54	39.9	21.2	5.12	30.27	100	360	Peak



- Polarization : Horizontal (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



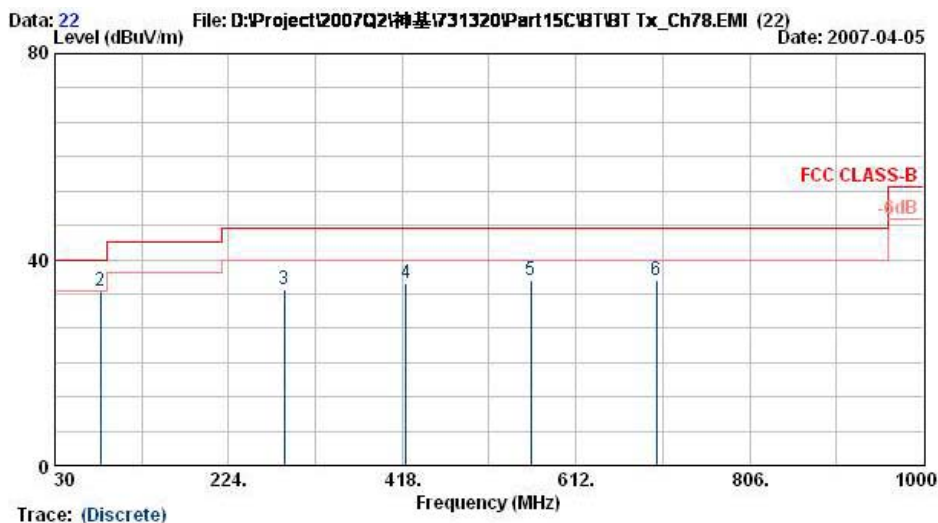
	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	2344	50.09	-23.91	74	51.56	30.24	3.71	35.42	100	360	Peak
2	2344	37.92	-16.08	54	39.39	30.24	3.71	35.42	100	317	Average
3	X 2480	87.9	13.9	74	89.26	30.29	3.86	35.51	100	360	Peak
4	X 2480	80.36	26.36	54	81.72	30.29	3.86	35.51	100	317	Average
5	2483.5	58.94	-15.06	74	60.3	30.29	3.86	35.51	100	360	Peak
6	2483.5	46.28	-7.72	54	47.64	30.29	3.86	35.51	100	317	Average
7	8142	56.55	-17.45	74	45.03	39.49	7.96	35.93	100	360	Peak
8	8142	44.71	-9.29	54	33.19	39.49	7.96	35.93	100	360	Average

Remark: "X" represents the Fundamental Signal



- Polarization : Vertical (30MHz-1GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.

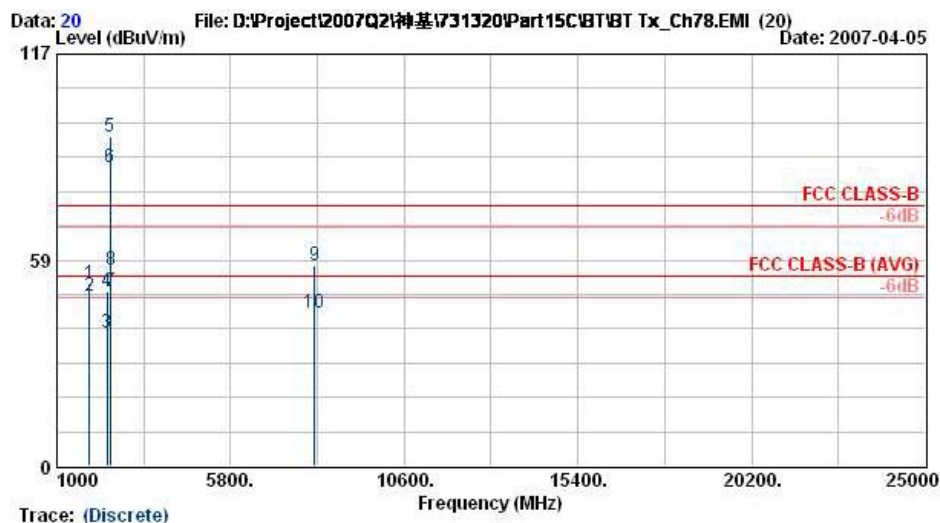


	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	30	27.83	-12.17	40	38.79	19.66	0.84	31.46	100	360	Peak
2	80.49	33.95	-6.05	40	56.21	7.52	1.31	31.09	130	167	QP
3	286.23	34.1	-11.9	46	49.52	12.95	2.59	30.96	100	360	Peak
4	421.8	35.54	-10.46	46	47.01	16.13	3.24	30.84	100	360	Peak
5	561.8	35.91	-10.09	46	44.79	18.07	3.76	30.71	100	360	Peak
6	701.8	35.85	-10.15	46	43.28	18.91	4.25	30.59	100	360	Peak



- Polarization : Vertical (1GHz-25GHz)

■ The test that passed at minimum margin was marked by the boldface in the following table.



	Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
1	1898	51.7	-22.3	74	54.46	29.3	3.22	35.28	100	360	Peak
2	! 1898	48.11	-5.89	54	50.87	29.3	3.22	35.28	100	263	Average
3	2384	37.93	-16.07	54	39.37	30.25	3.75	35.44	100	332	Average
4	2384	49.77	-24.23	74	51.21	30.25	3.75	35.44	100	360	Peak
5	X 2480	93.6	19.6	74	94.96	30.29	3.86	35.51	100	360	Peak
6	X 2480	84.81	30.81	54	86.17	30.29	3.86	35.51	100	332	Average
7	! 2483.5	49.37	-4.63	54	50.73	30.29	3.86	35.51	100	332	Average
8	2483.5	55.85	-18.15	74	57.21	30.29	3.86	35.51	100	360	Peak
9	8127	56.91	-17.09	74	45.38	39.5	7.94	35.91	100	360	Peak
10	8127	43.7	-10.3	54	32.17	39.5	7.94	35.91	100	360	Average

Remark: "X" represents the Fundamental Signal



5.12 Antenna Requirements

5.12.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no other antenna except assembled by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

5.12.2 Antenna Connected Construction

The antennas used in this product are PIFAs for both WLAN and BT with I-PEX connector and it is considered to meet antenna requirement of FCC.

5.12.3 Antenna Gain

The antenna gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



6. List of Measuring Equipments Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100359	9kHz – 2.75GHz	Mar. 01, 2007	Mar. 01, 2008	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 31, 2007	Mar. 31, 2008	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Mar. 22, 2007	Mar. 22, 2008	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2006	Apr. 20, 2007	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz – 30MHz	Mar. 27, 2007	Mar. 27, 2008	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	N/A	Conduction (CO04-HY)
Spectrum analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Oct. 05, 2006	Oct. 04, 2007	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 13, 2006	Jul. 12, 2007	Radiation (03CH06-HY)
Controller	INN-CO	CO2000	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Com-Power	AH118	10094	1G~18G	Dec. 26, 2006	Dec. 25, 2007	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBEC K	BBHA 9170	9170-249	14G - 40G	Nov. 20, 2006	Nov. 19, 2008	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G - 26.5G	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Pre Amplifier	Mini Circuits	ZKL-2	D092004-1	10~2500MHz	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	INN-CO	MM3000	114/8000604/L	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)
Base Station Simulator	R & S	CMU200	106656	WCDMA	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)
Amplifier	MITEQ	AMF-6F-260400	923364	26.5 GHz - 40 GHz	Jan. 22, 2007	Jan. 22, 2008	Radiation (03CH06-HY)
Spectrum	R&S	FSP40	100055	9KHz~40GHz	Jun. 23, 2006	Jun. 23, 2007	Radiation (03CH06-HY)

7. Uncertainty Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.10	Normal(k=2)	0.05
Cable loss	0.10	Normal(k=2)	0.05
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.39	Rectangular	0.80
Mismatch	+0.34/-0.35	U-shape	0.24
combined standard uncertainty Uc(y)	1.13		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.26		

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
combined standard uncertainty Uc(y)	1.27		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.54		

**Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)**

Contribution	Uncertainty of x_i		$u(x_i)$	C_i	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty $U_c(y)$	2.36				
Measuring uncertainty for a level of confidence of 95% $U = 2U_c(y)$	4.72				