FCC TEST REPORT

for

47 CFR Part 15 Subpart C

Equipment	:	**Mobile Phone**
Trade Name	:	**BenQ-Siemens**
Model No.	:	**P51**
Marketing Name	:	**P50B2A**
FCC ID	:	**JVPP51**
BenQ Ref. No.	:	**BW-6427**
Filing Type	:	**Certification**
Applicant	:	**BenQ Corporation** 157 Shan-Ying Road, Gueishan Taoyuan 333, Taiwan

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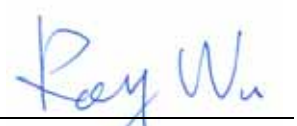
- The data shown in this test report were carried out on Jul. 01, 2006 at **Sporton International Inc. LAB.**
- Report No.: FR653101, Report Version: Rev. 01



Roy Wu
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History of this test report

Report Issue Date: Jul. 21, 2006

Report No.	Description

1. General Description of Equipment under Test

1.1 Applicant

BenQ Corporation
157 Shan-Ying Road, Gueishan Taoyuan 333, Taiwan

1.2 Manufacturer

1. BenQ Corporation
157 Shan-Ying Road, Gueishan Taoyuan 333, Taiwan
2. BenQ (IT) Co., Ltd.
No. 169, Zhujiang Road, New District, Suzhou, Jiangsu, P.R., China

1.3 Basic Description of Equipment under Test

Equipment	: Mobile Phone
Trade Name	: BenQ-Siemens
Model No.	: P51
Marketing Name	: P50B2A
FCC ID	: JVPP51
Power Supply Type	: Switching
AC Power Cord	: AC 120V, Non-shielded, Wall-mount, 1.2 meter, 2 pin
Holster	: BenQ-SIEMENS, 47.G7223.002
Adapter	: BenQ-SIEMENS, JSP050100UU
Battery	: BenQ-SIEMENS, 2C.2G3D0.101
Earphone	: 2C.43054.021
Data Cable	: 5K.G4702.001

1.4 Feature of Equipment under Test

Product Feature & Specification				
1. Support Band	GSM 850/900/1800/1900 with Bluetooth and WLAN			
2. Type of Modulation	GSM/PCS : GMSK WLAN : DSSS / OFDM BT : GFSK			
3. Number of Channels	WLAN : 11 Channels BT : 79 Channels			
4. Frequency Band	GSM : 824-849 MHz (Tx), 869-894 MHz (Rx) PCS : 1850.2-1909.8 MHz(Tx), 1930.2-1989.8 MHz(Rx) WLAN/BT : 2.4GHz~2.4835GHz			
5. Carrier Frequency of each channel	WLAN : 2412MHz+(n-1)*5MHz, n=1~11 BT : 2402MHz+n*1MHz, n=0~78			
6. Channel Spacing	WLAN : 5MHz BT : 1MHz			
7. HW Version	LPR4-6			
8. SW Version	V0.05.02			
9. Maximum Output Power to Antenna (Normal Condition)	GSM : 32.39 dBm PCS1900 : 29.32 dBm 802.11b : 19.35 dBm / 802.11g: 21.23 dBm BT : 0.64 dBm			
10. Type of Antenna Connector	N/A			
11. Antenna Type	GSM / PCS : Fixed Internal WLAN / BT : Patch Antenna			
12. Antenna Gain	WLAN : -3 dBi BT : -1 dBi			
13. Function Type	Transmitter		Transceiver	V
14. Power Rating (DC/AC Voltage) :	GSM850 : 3.8V / 230mA PCS1900 : 3.8V / 200mA			

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. For spurious emission below 1GHz, only one channel of each application was tested because it is not related to channel selection.
c. The EUT is programmed to transmit signal continuously for all testings.
d. Frequency range investigated: conduction 150 kHz to 30 MHz, radiation 30 MHz to 25000MHz.

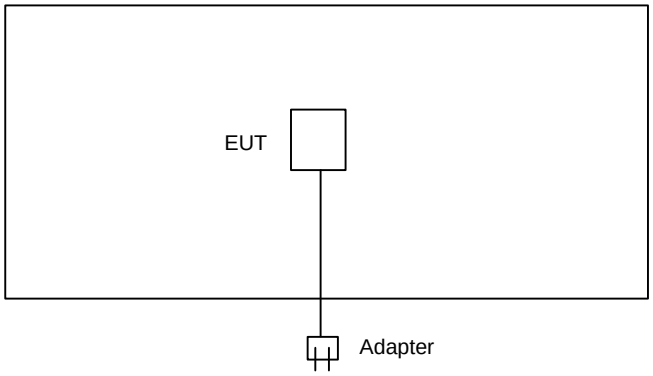
2.2 Test Mode

Application			
Radiated Emission	**802.11b**	**802.11g**	**BT**
	Mode 1: Tx_CH01_2412 MHz	Mode 4: Tx_CH01_2412 MHz	Mode 7: Tx_CH00_2402 MHz
	Mode 2: Tx_CH06_2437 MHz	Mode 5: Tx_CH06_2437 MHz	Mode 8: Tx_CH39_2441 MHz
	Mode 3: Tx_CH11_2462 MHz	Mode 6: Tx_CH11_2462 MHz	Mode 9: Tx_CH78_2480 MHz
Conducted Emission	Mode 1: PCS Idle Mode + BT Link + WLAN Link + USB Link + GPS Rx + Earphone + Camera + MPEG 4 + Adapter		

2.3 Connection Diagram of Test System

<Radiated Emission>

<WLAN>



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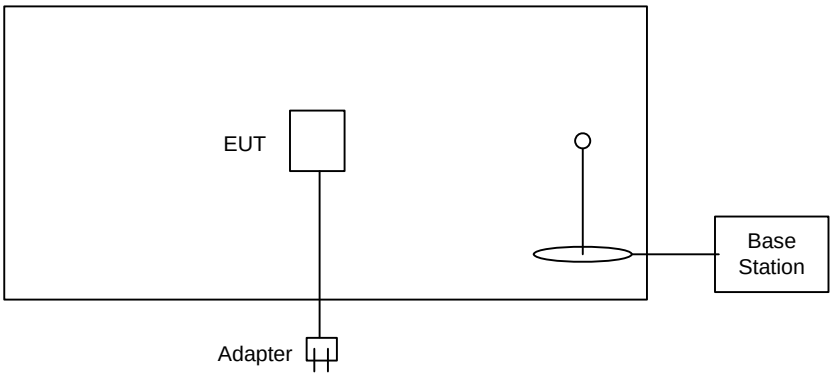

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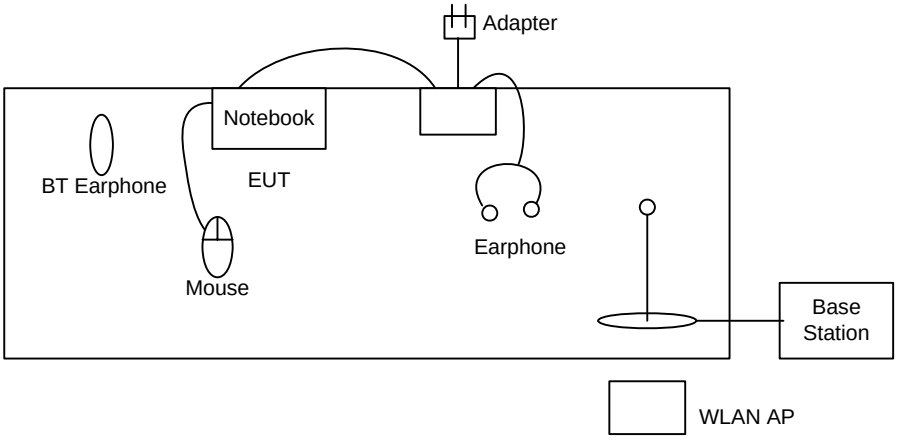


2.4 Ancillary Equipment List

Item	Asset	Model Name	Power Cord
1.	Base Station (R&S)	CMU 200	N/A
2.	Notebook (DELL)	D400	N/A
3.	USB Mouse (Microsoft)	B75-00093	Non-shielded, 1.8 m
4.	BT Earphone (Free Style)	JD-100	N/A
5.	WLAN AP (SMC)	SMC-100	N/A
6.	USB Cable		Weave-shielded, 1 m

3. RF Utility

The programmed RF Utility is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility 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	:	CO01-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. 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

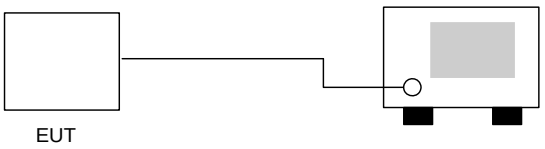
5.2.1 Measuring Instruments：

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
- Temperature : 24°C
- Relative Humidity : 59%
- Test Enginner : James

802.11b

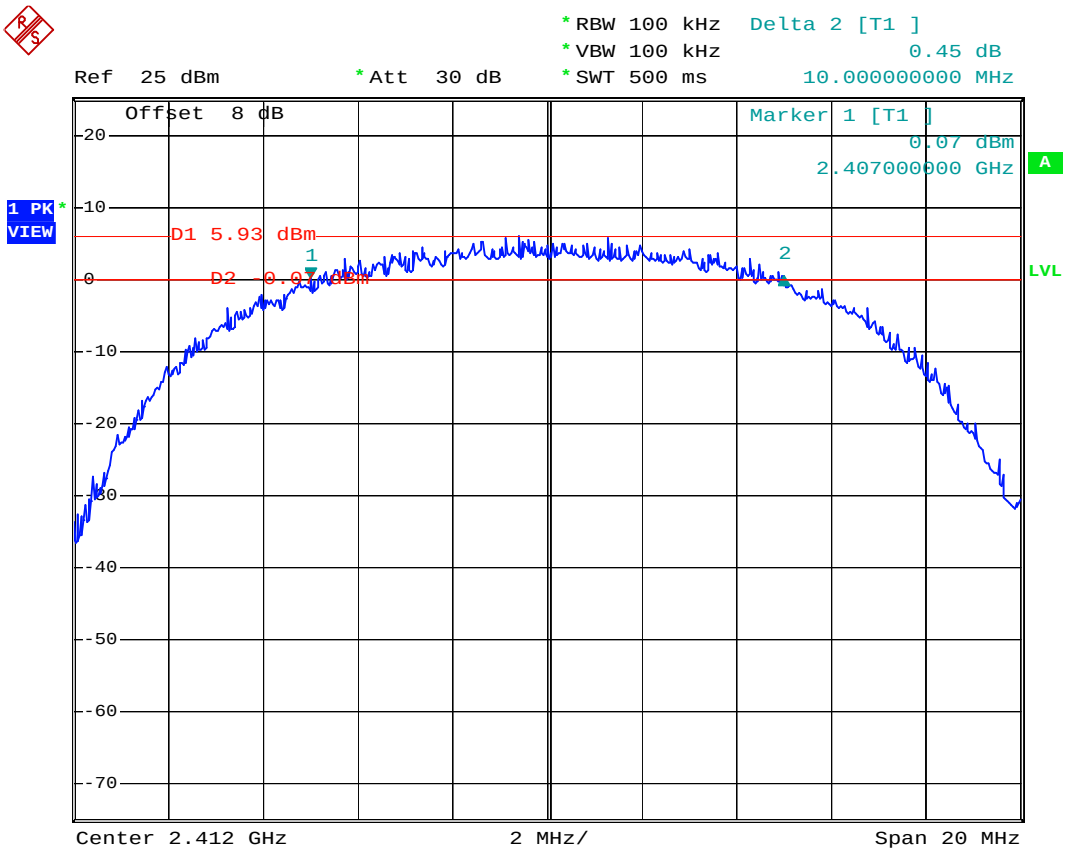
Channel	Frequency (MHz)	6dB Emission bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
01	2412	10.00	> 0.5MHz	Mode 1
06	2437	10.00	> 0.5MHz	Mode 2
11	2462	10.24	> 0.5MHz	Mode 3

802.11g

Channel	Frequency (MHz)	6dB Emission bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
01	2412	16.40	> 0.5MHz	Mode 4
06	2437	16.44	> 0.5MHz	Mode 5
11	2462	16.44	> 0.5MHz	Mode 6

5.2.5 6dB Bandwidth

Mode 1



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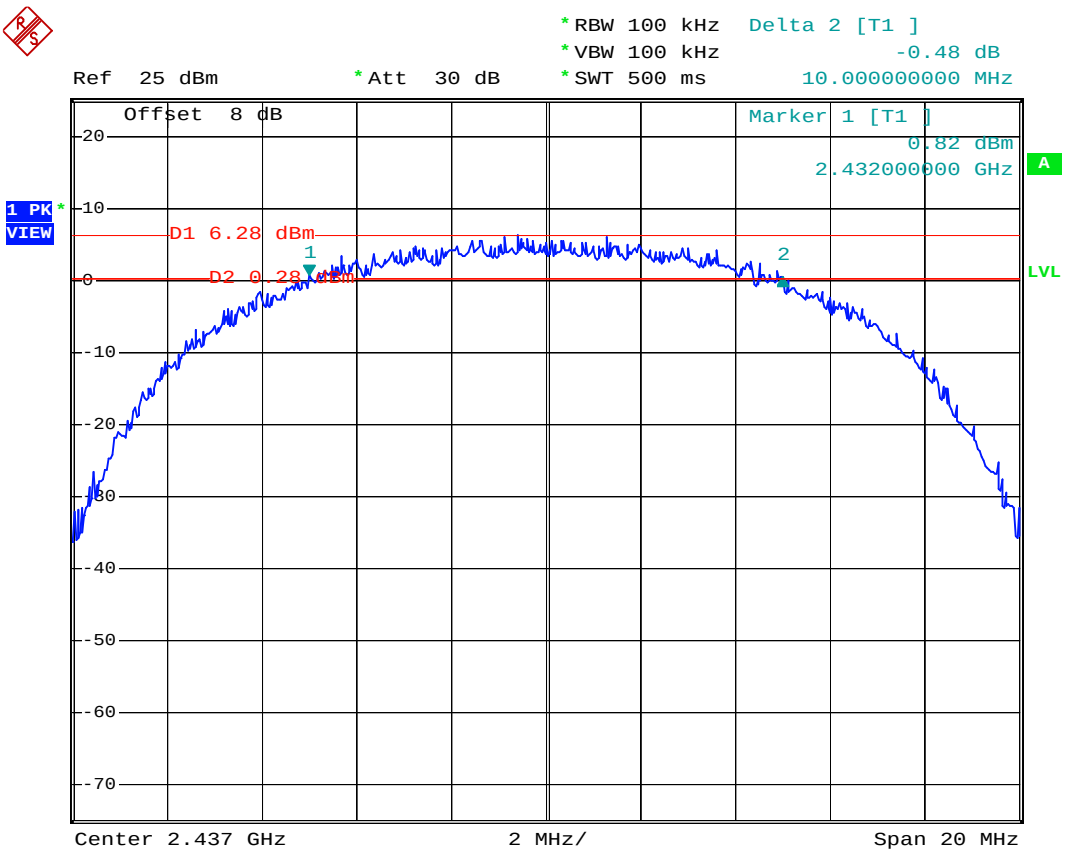
Mode 2



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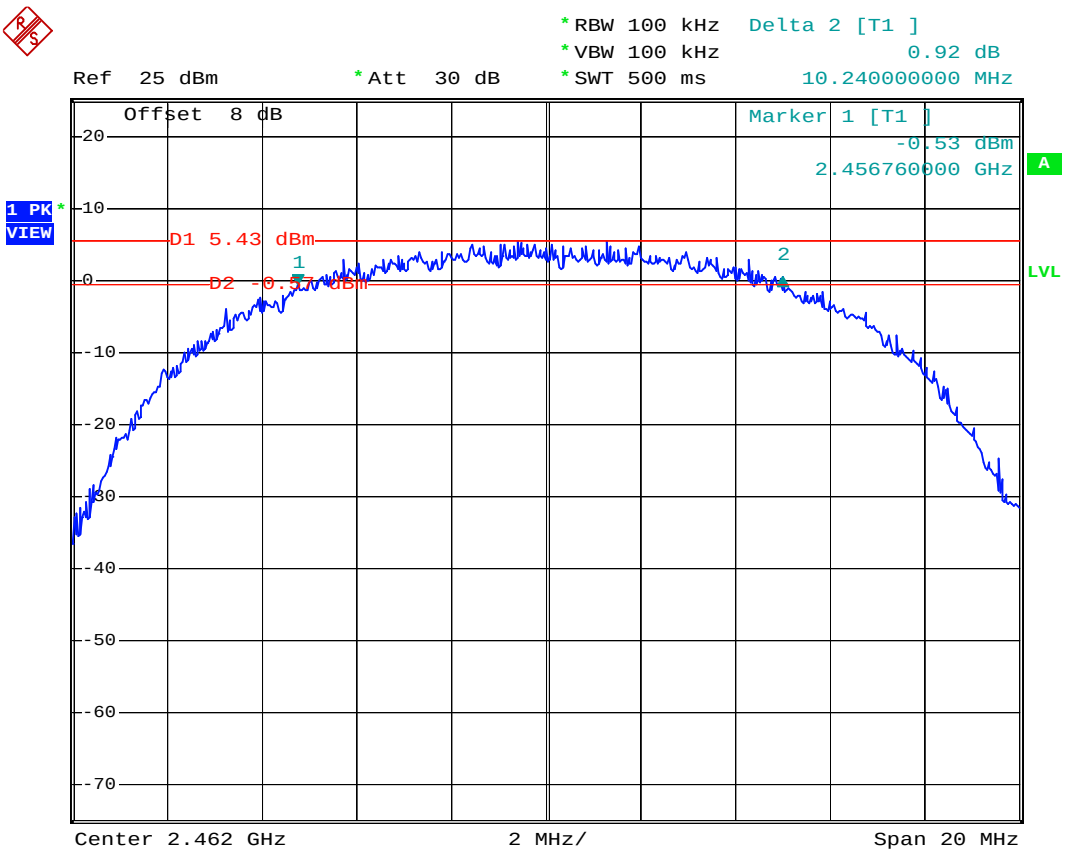
Mode 3



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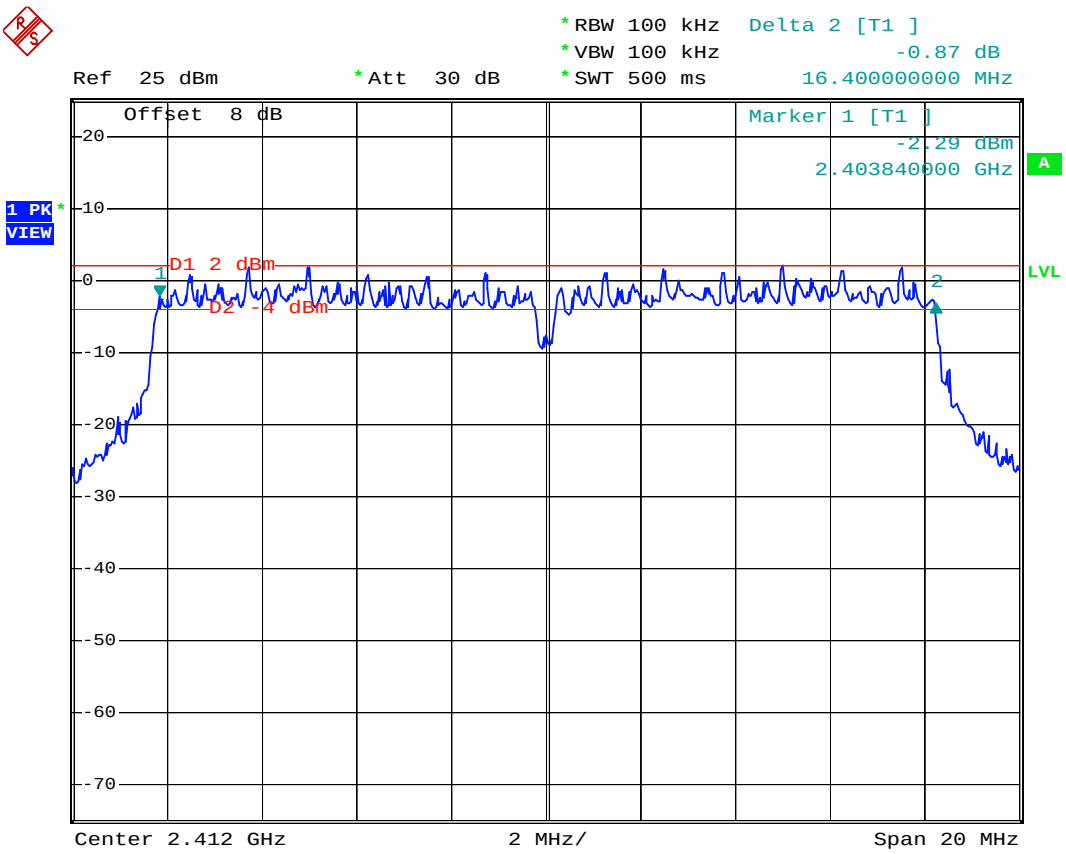

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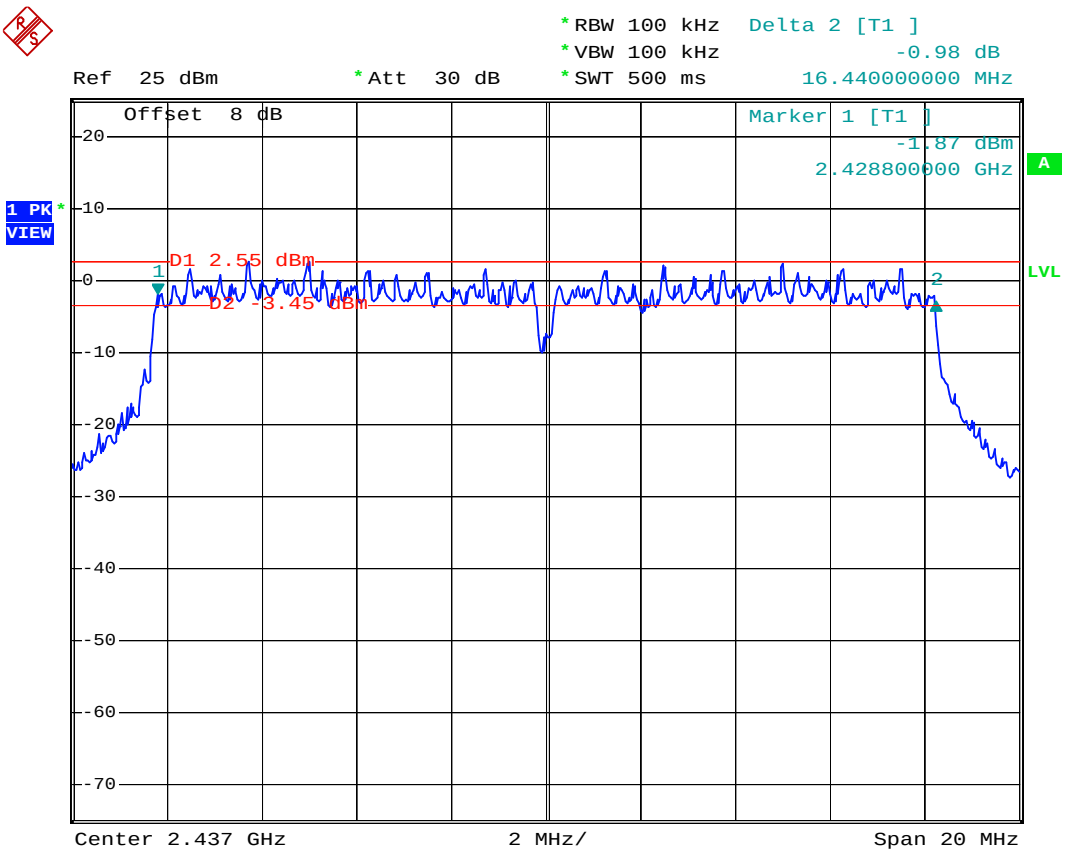
Mode 5



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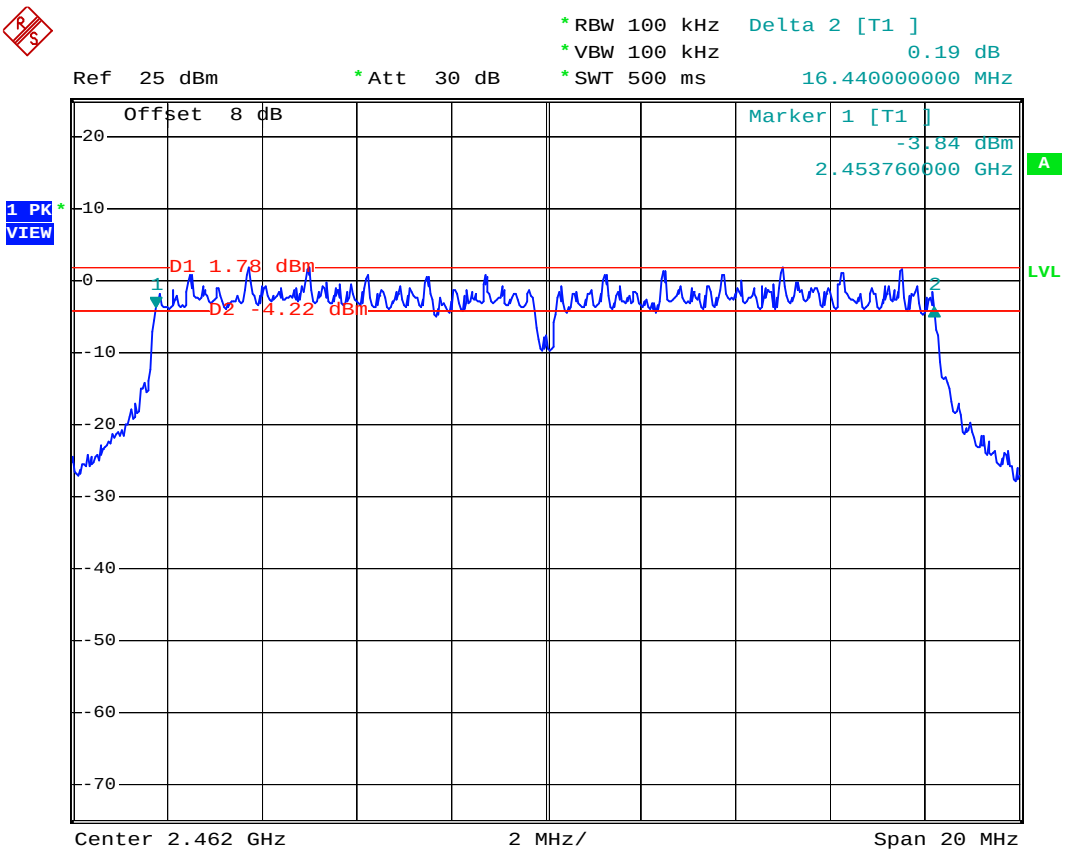
Mode 6



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5.3 Power Spectral Density Measurement

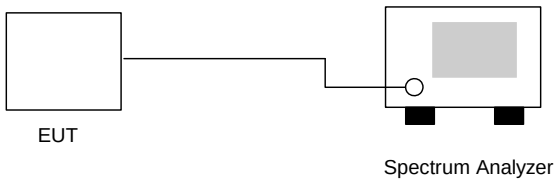
5.3.1 Measuring Instruments：

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
- Temperature : 24°C
- Relative Humidity : 59%
- Test Enginner : James

802.11b

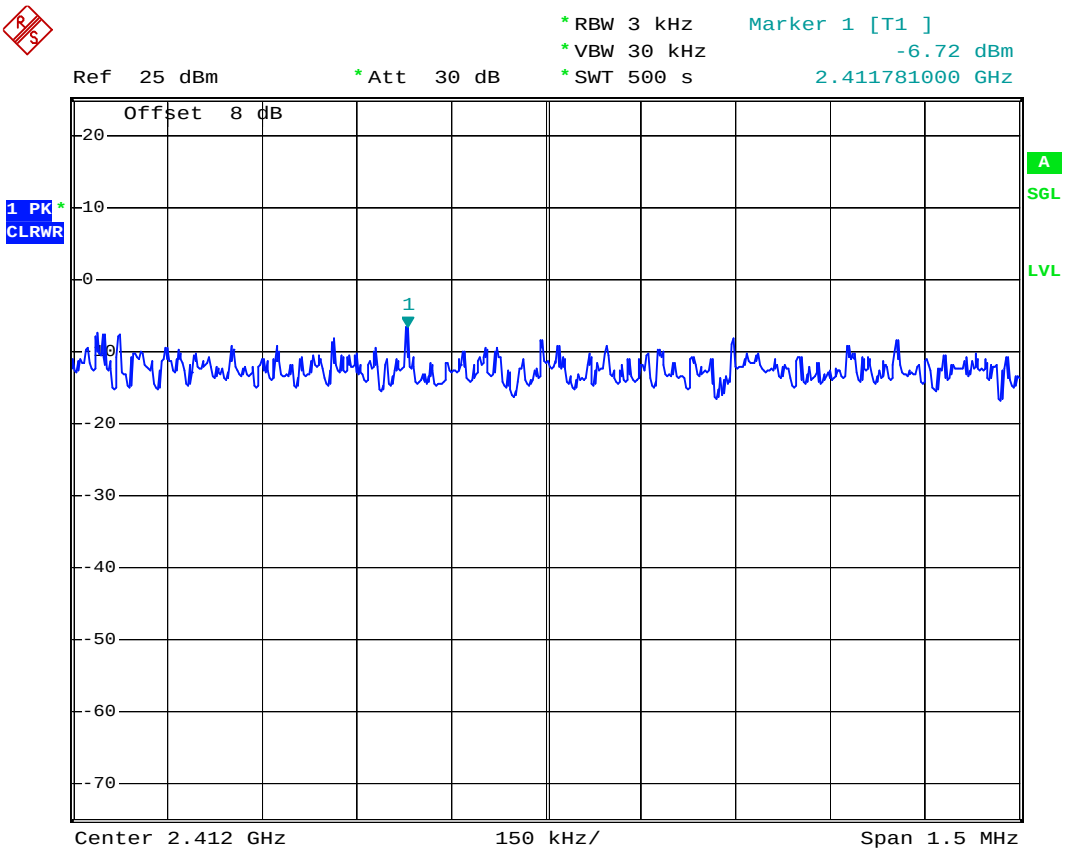
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
01	2412	-6.72	8	Mode 1
06	2437	-6.65	8	Mode 2
11	2462	-7.12	8	Mode 3

802.11g

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)	Plot Ref. No.
01	2412	-11.86	8	Mode 4
06	2437	-11.18	8	Mode 5
11	2462	-11.99	8	Mode 6

5.3.5 Power Spectral Density

Mode 1



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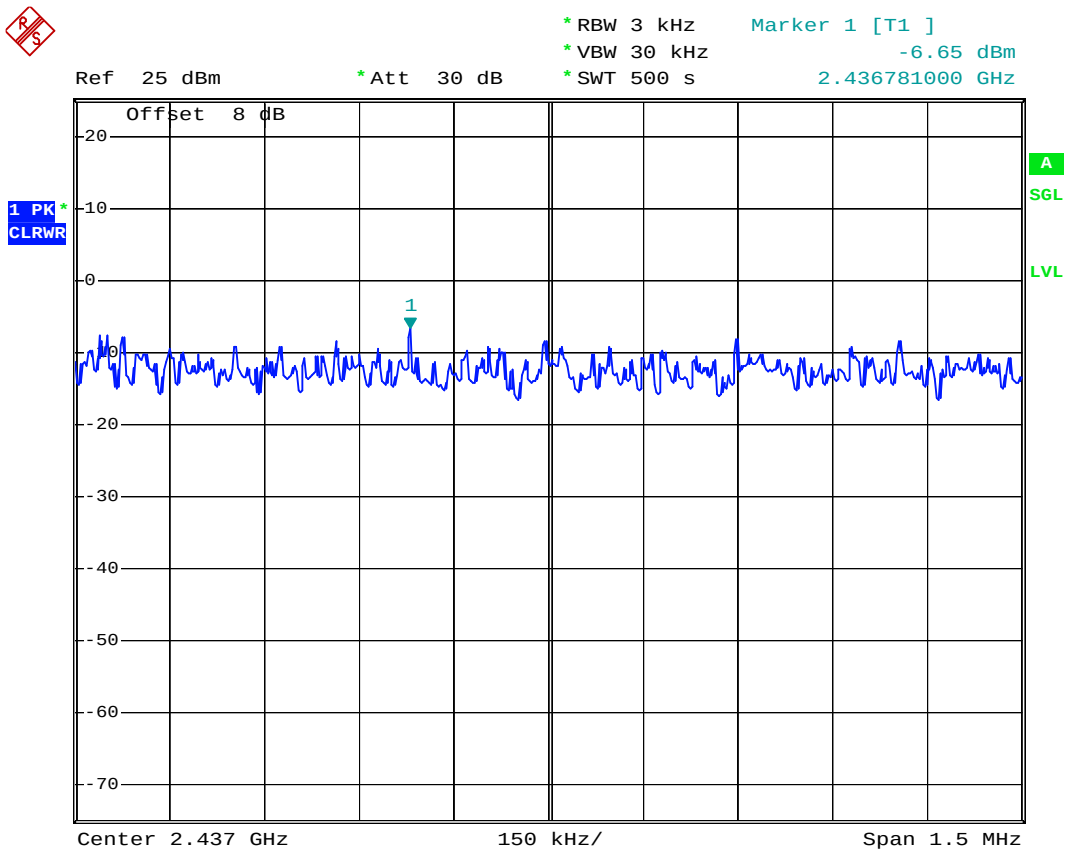
Mode 2



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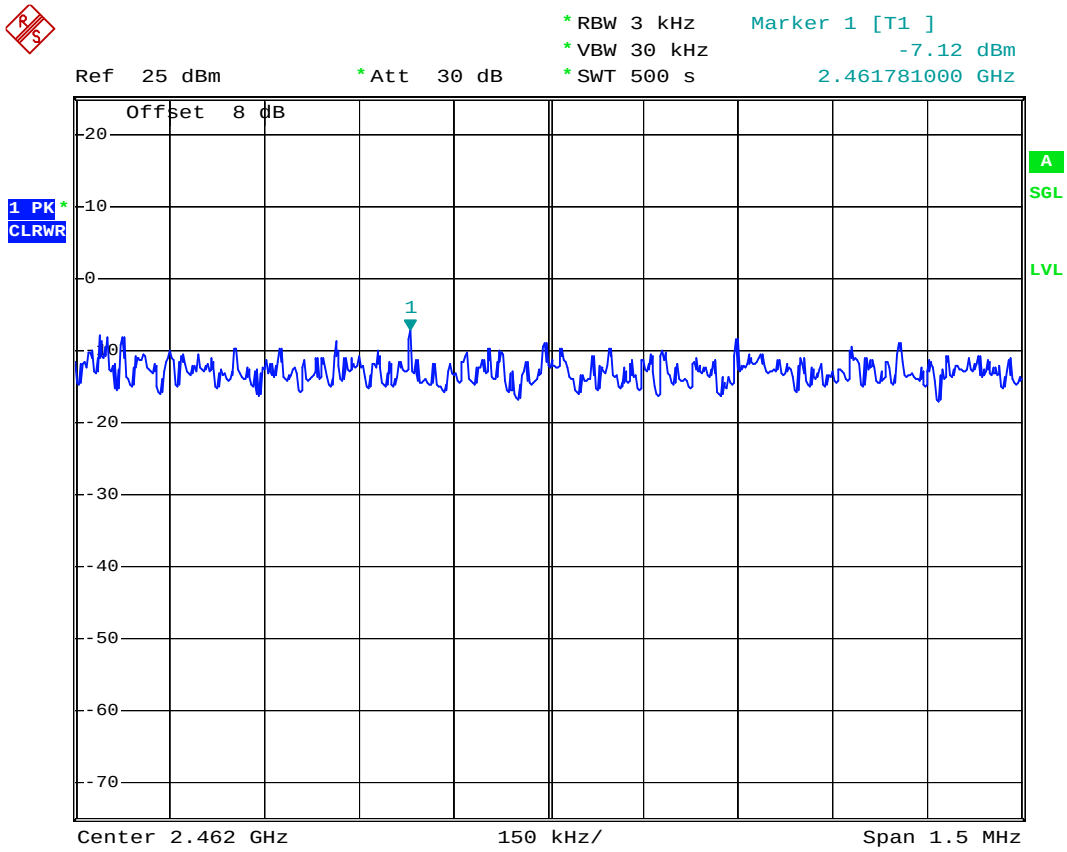
Mode 3



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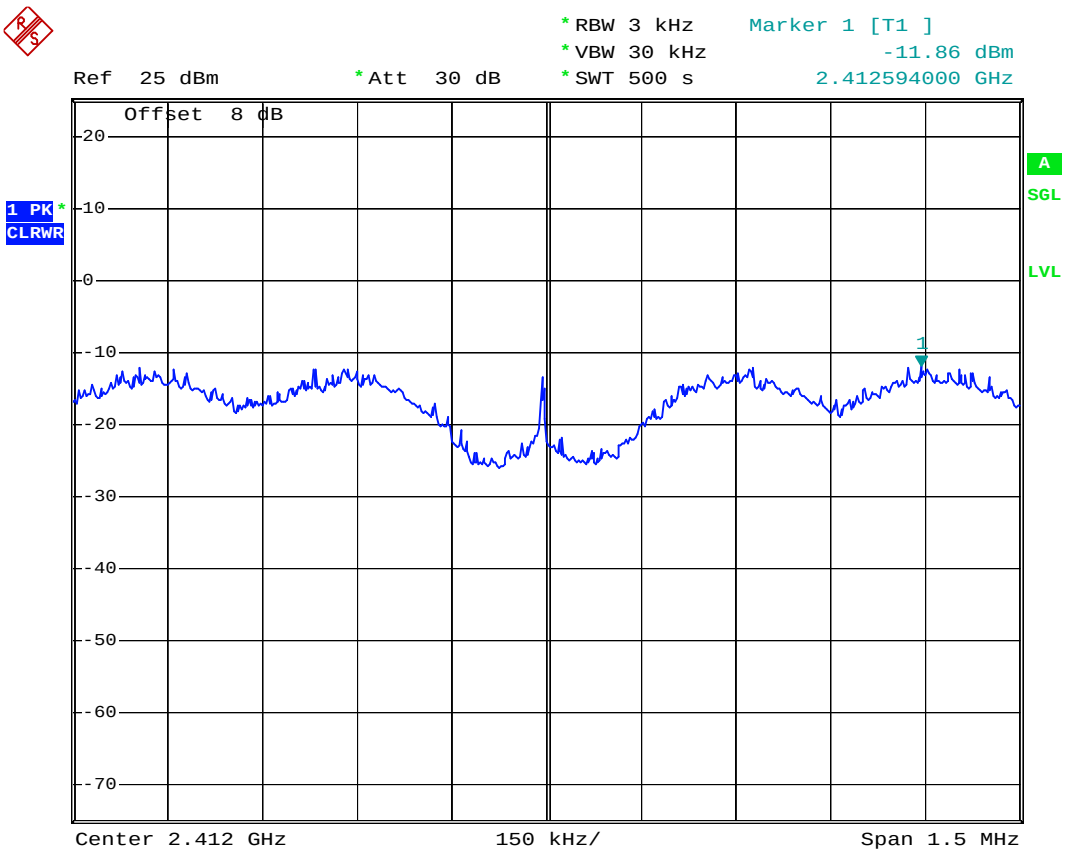
Mode 4



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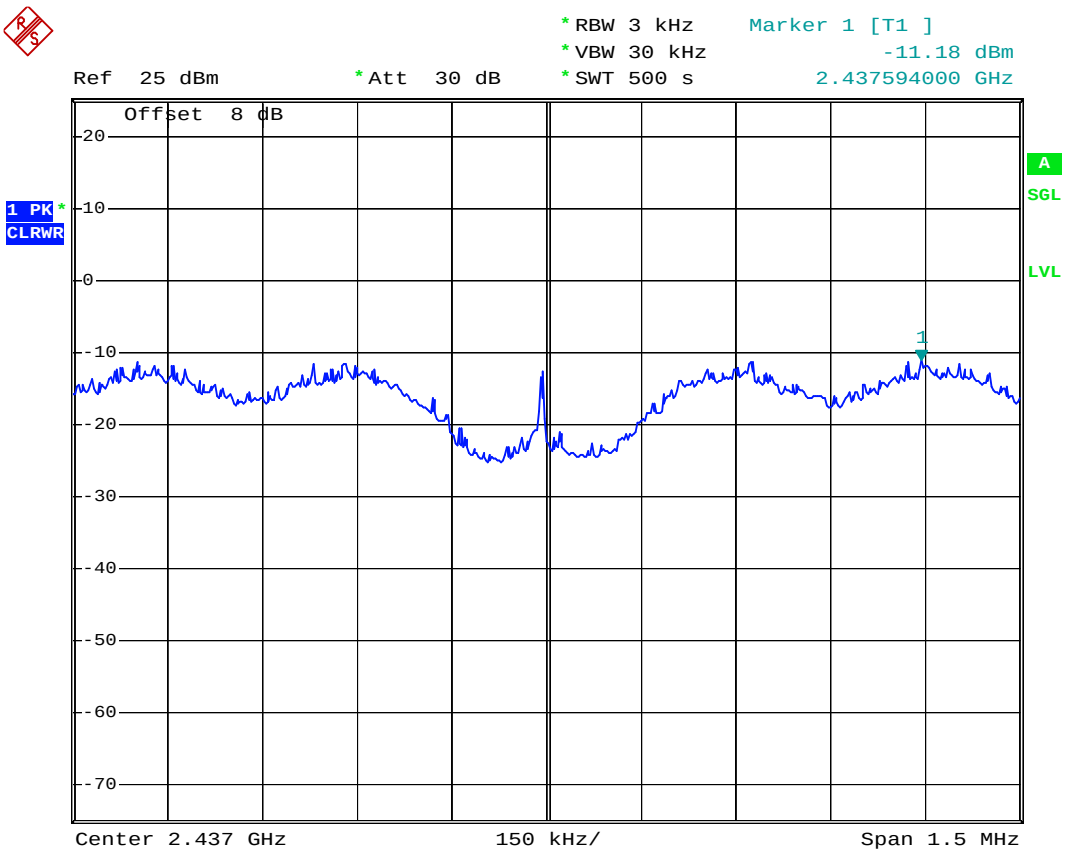
Mode 5



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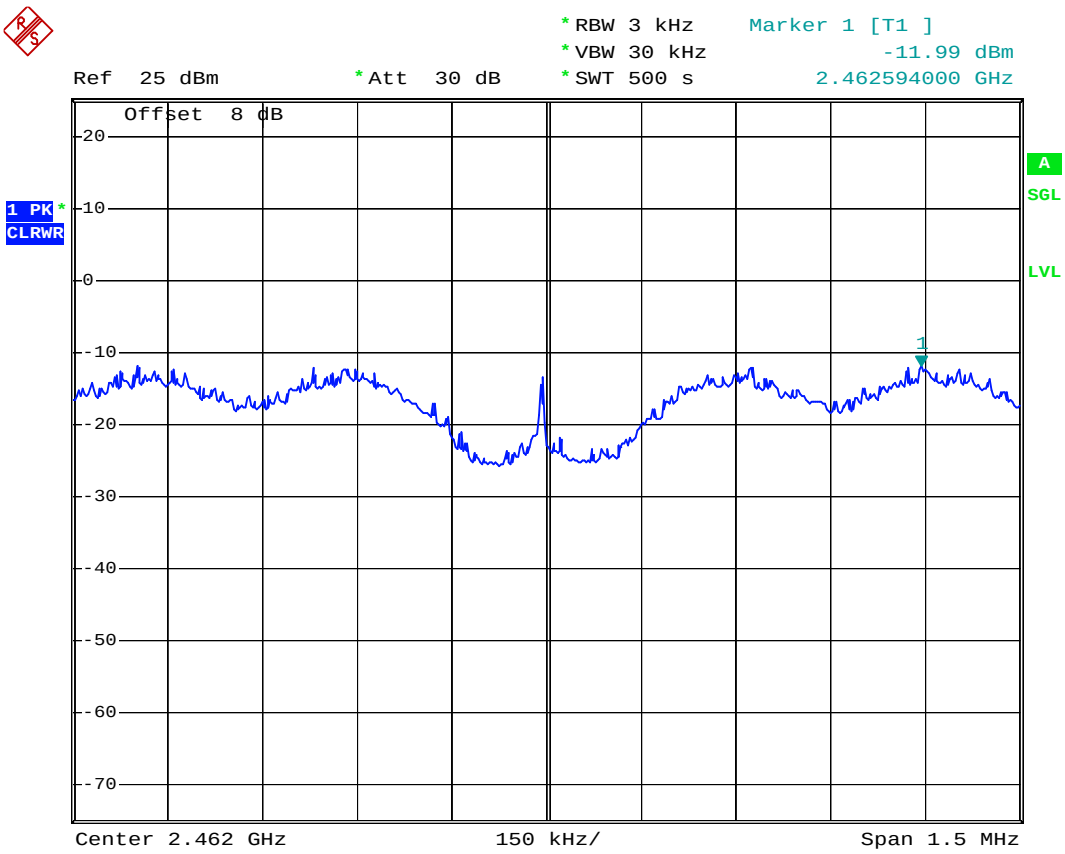
Mode 6



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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：

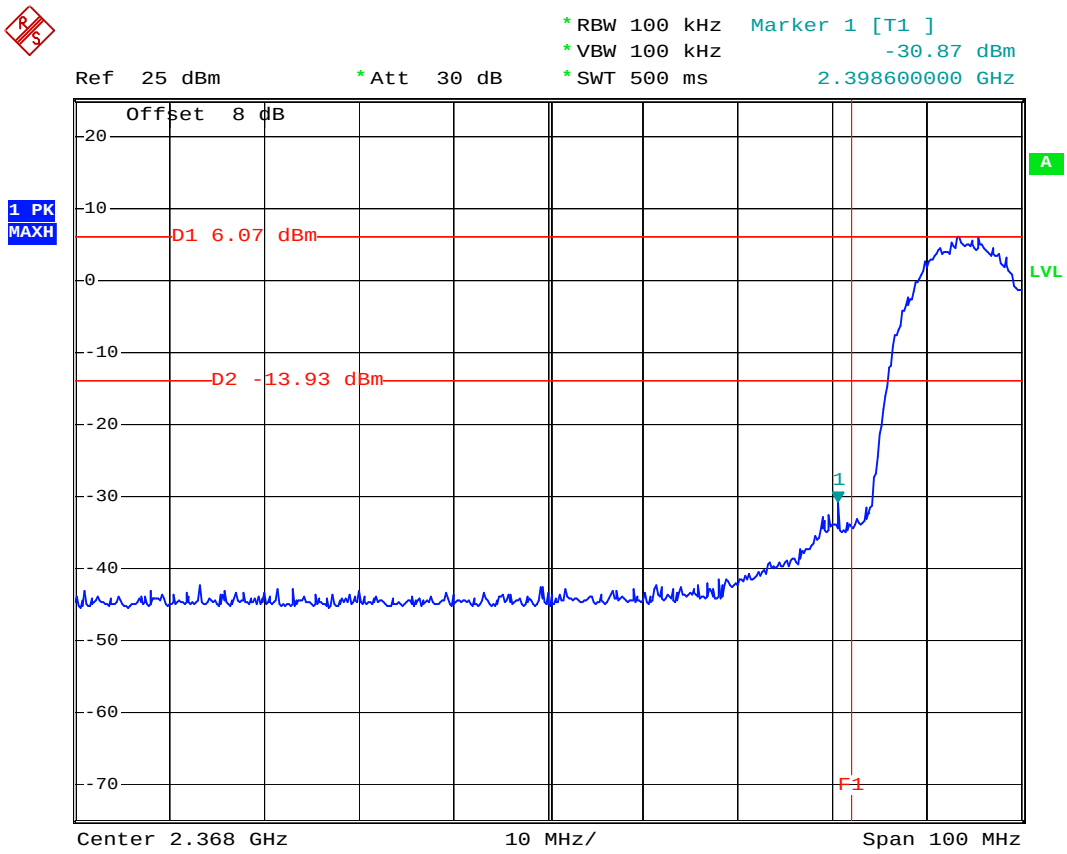
- Application Type : WLAN 802.11b/g and BT
- Temperature : 24°C
- Relative Humidity : 59%
- Test Enginner : James

- Test Result in WLAN lower band (Channel 1) : PASS
- Test Result in WLAN higher band (Channel 11) : PASS
- Test Result in BT lower band (Channel 00) : PASS
- Test Result in BT higher band (Channel 78) : PASS

5.4.4 20dB Band Edge

WLAN 802.11b

CH01



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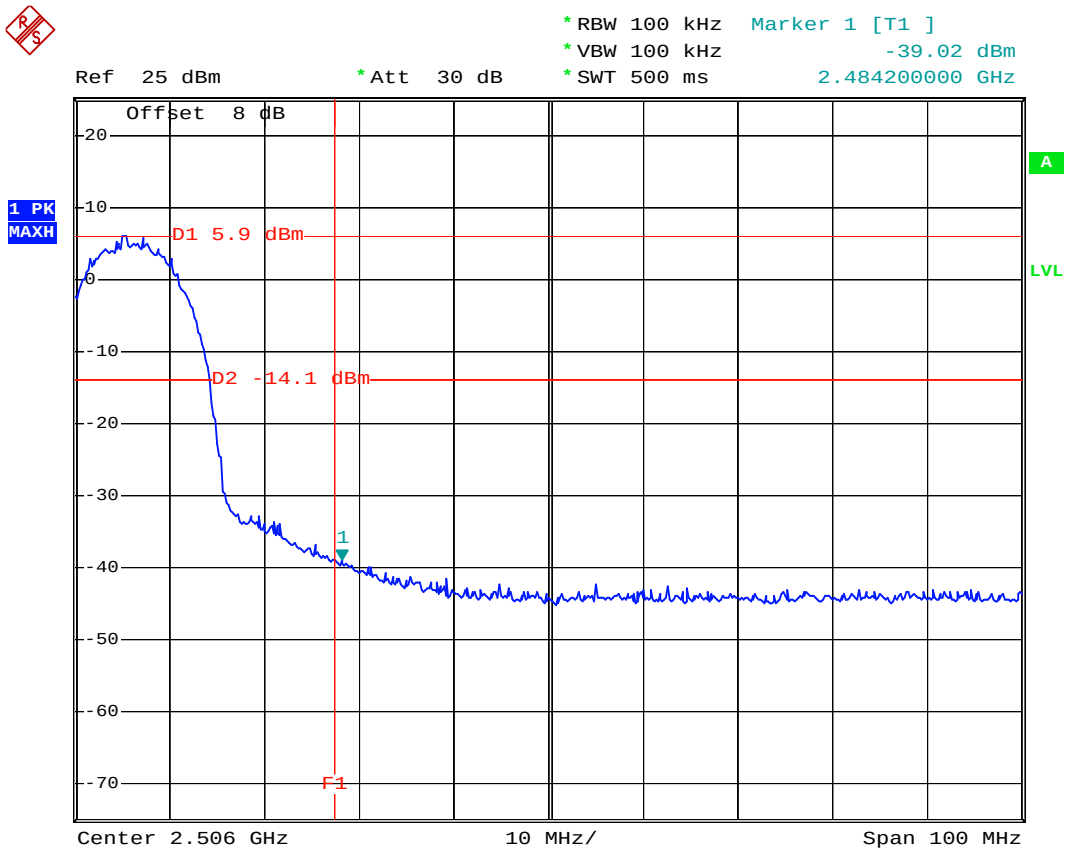
CH11



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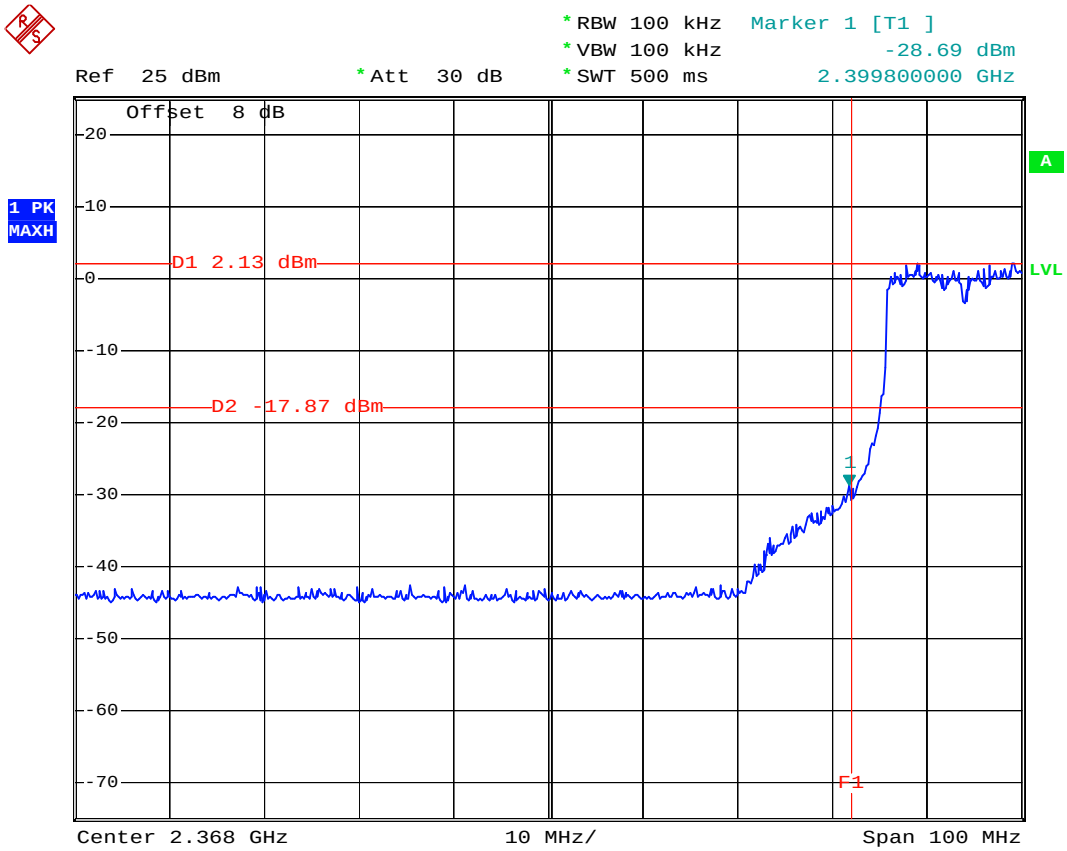
WLAN 802.11g

CH01



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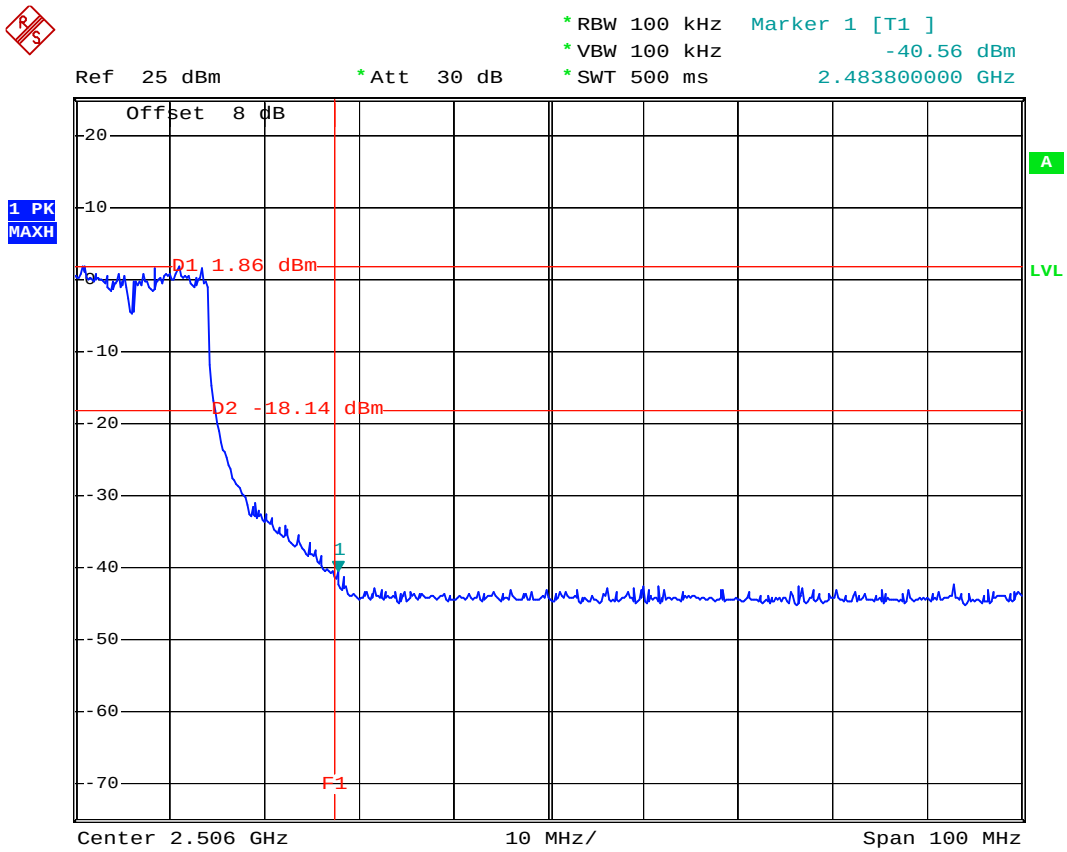
CH11



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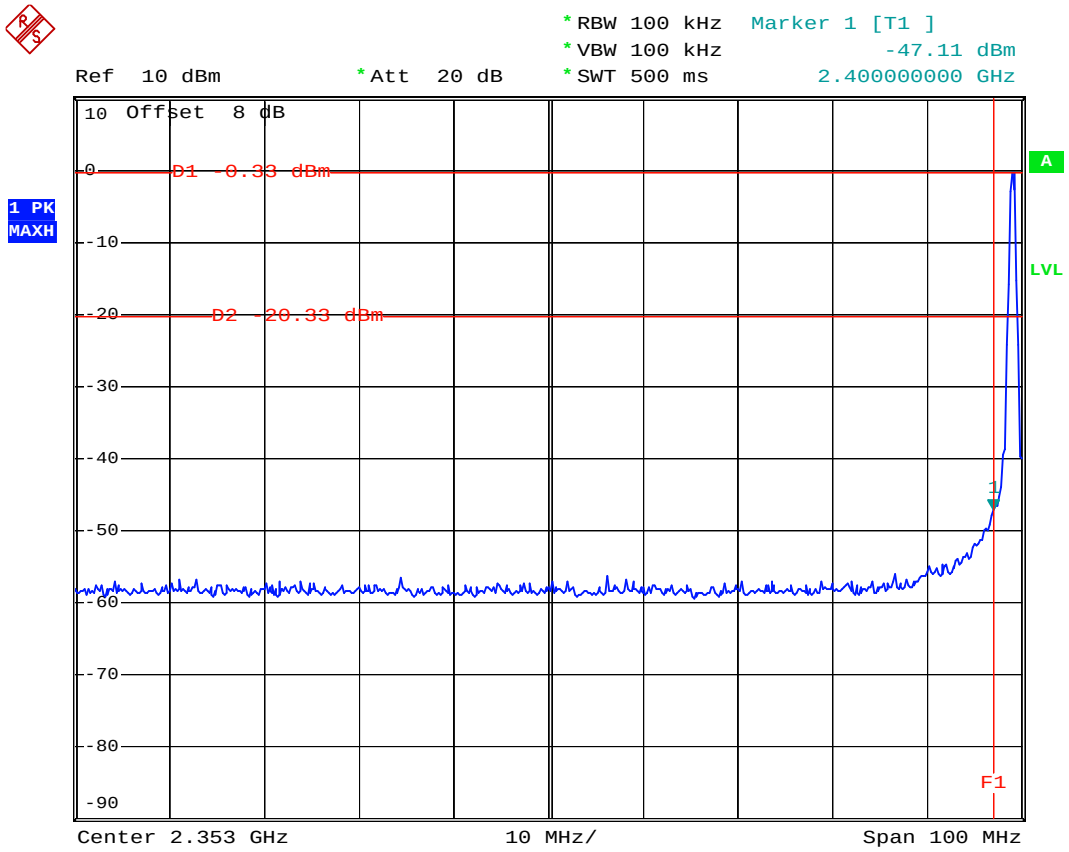
Bluetooth

CH00



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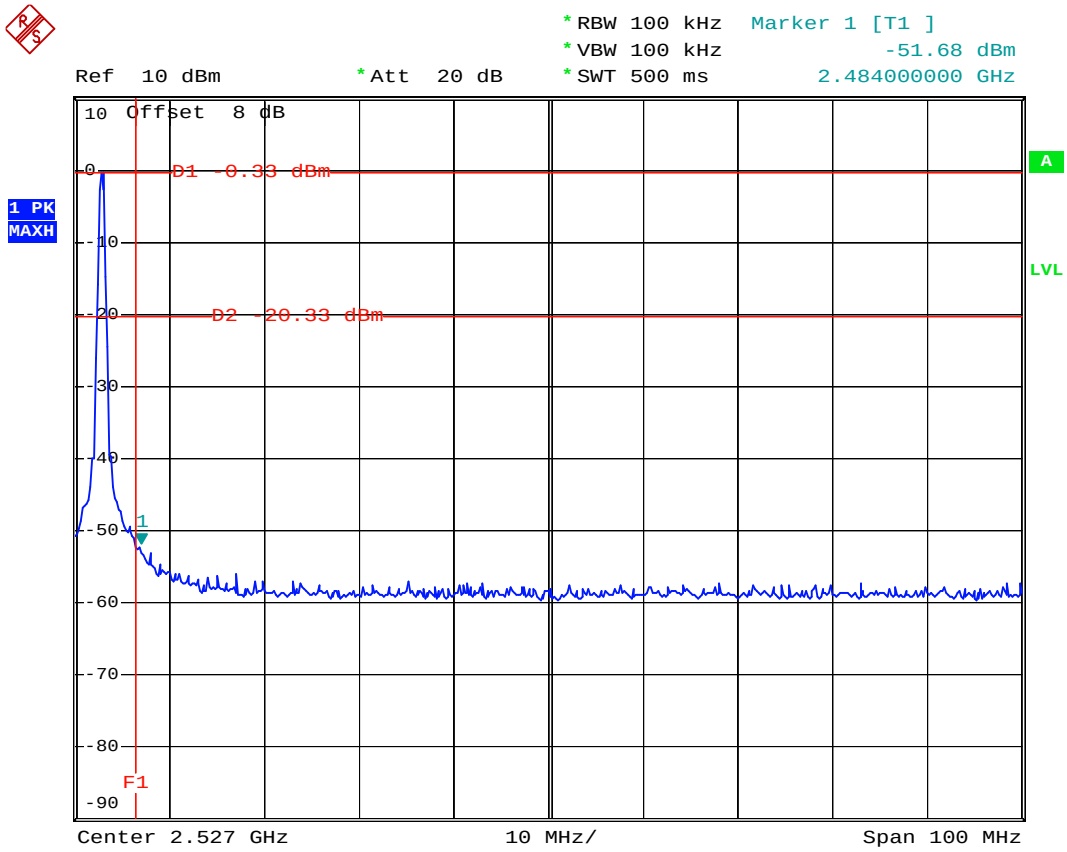
CH78



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5.5 Hopping Channel Separation

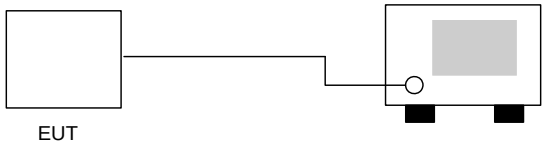
5.5.1 Measuring Instruments：

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 100kHz 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

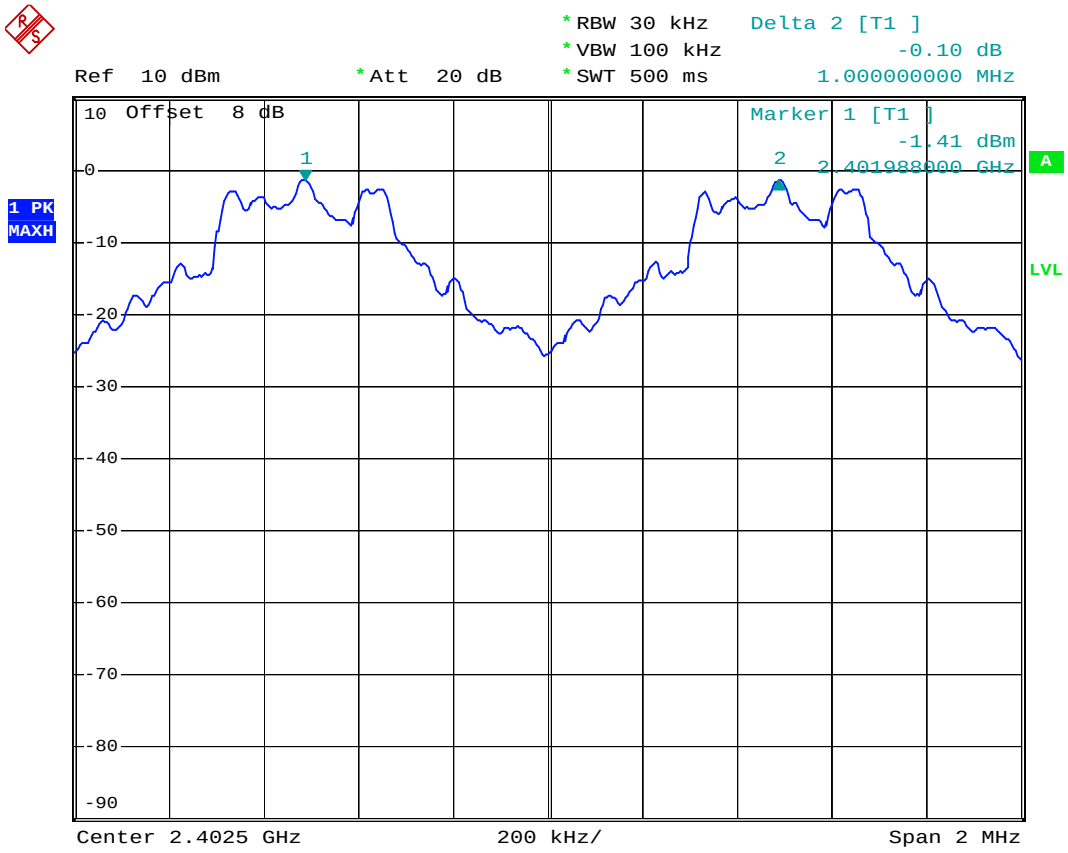
- Application Type : BT
- Temperature : 24°C
- Relative Humidity : 59%
- Test Enginner : James

Channel	Frequency (MHz)	Carrier Frequency Separation (MHz)	Limits (MHz)	Plot Ref. No.
00	2402	1.000	0.828	Mode 1
39	2441	1.004	0.822	Mode 2
78	2480	1.008	0.826	Mode 3

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

5.5.5 Hopping Channel Seperation

Mode 1



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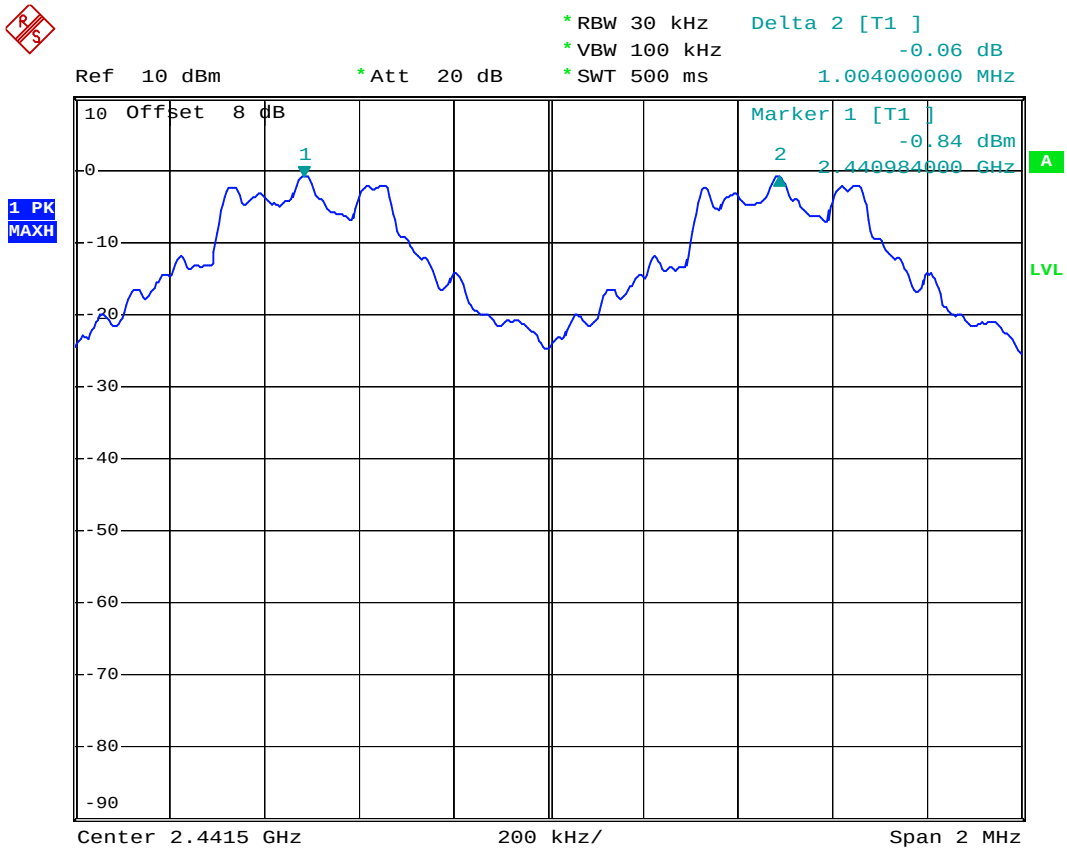
Mode 2



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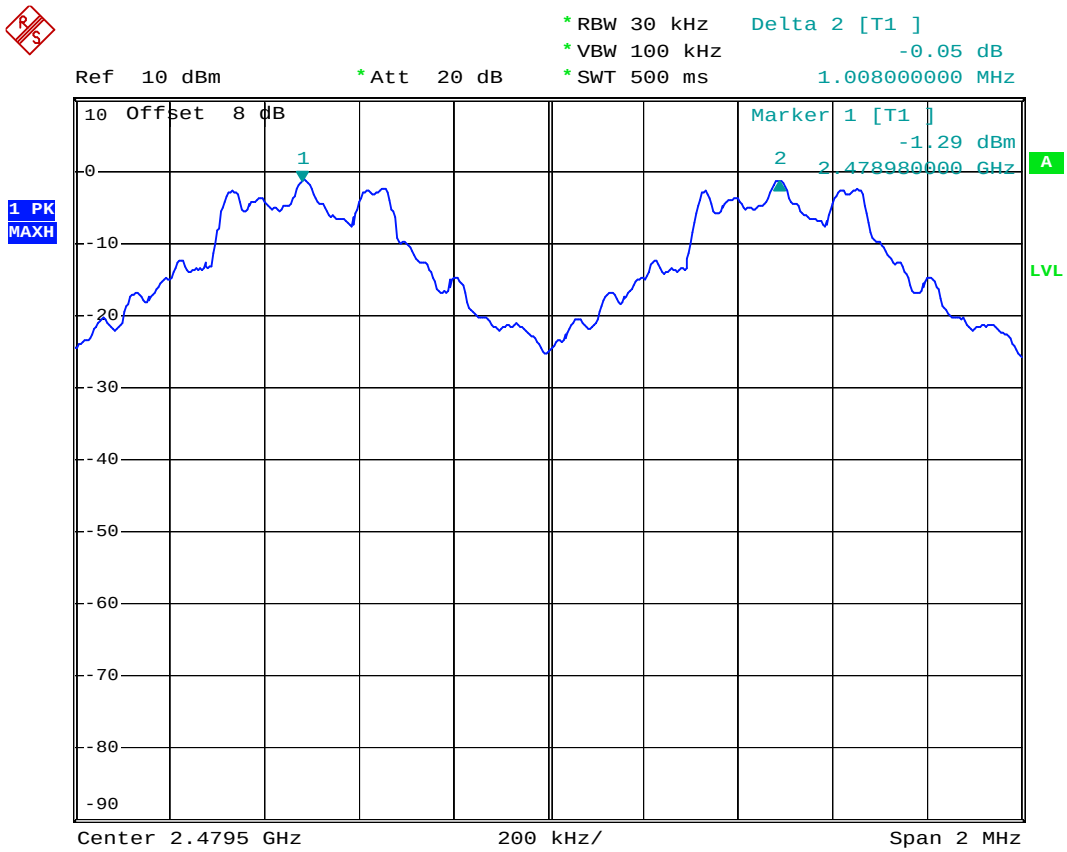
Mode 3



Date: 16.JUN.2006 16:40:27

5.6 Number of Hopping Frequency

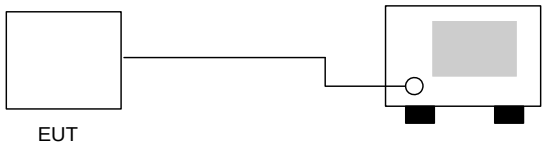
5.6.1 Measuring Instruments：

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：

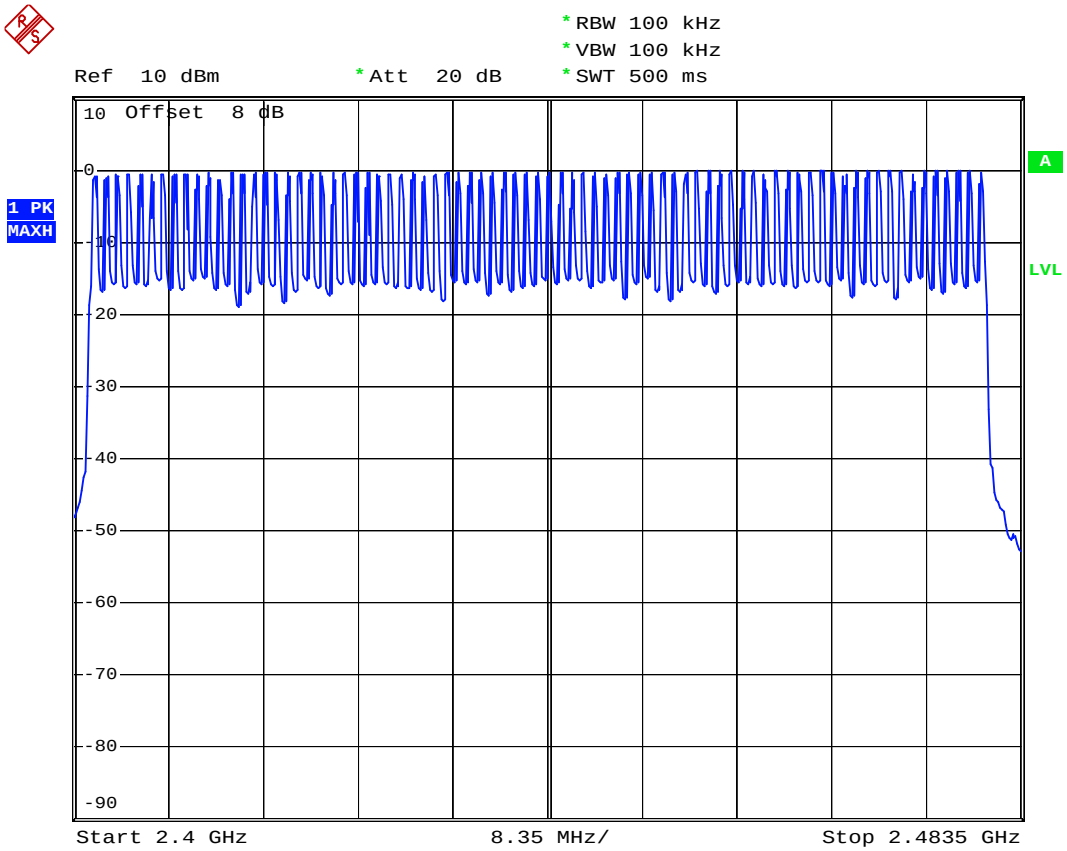


5.6.4 Test Result：See spectrum analyzer plots below

- Application Type : BT
- Temperature : 24°C
- Relative Humidity : 59%
- Test Enginner : James

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

5.6.5 Number of Hopping Frequency



Date: 16.JUN.2006 17:22:22

5.7 Hopping Channel Bandwidth

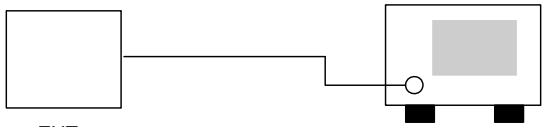
5.7.1 Measuring Instruments：

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：



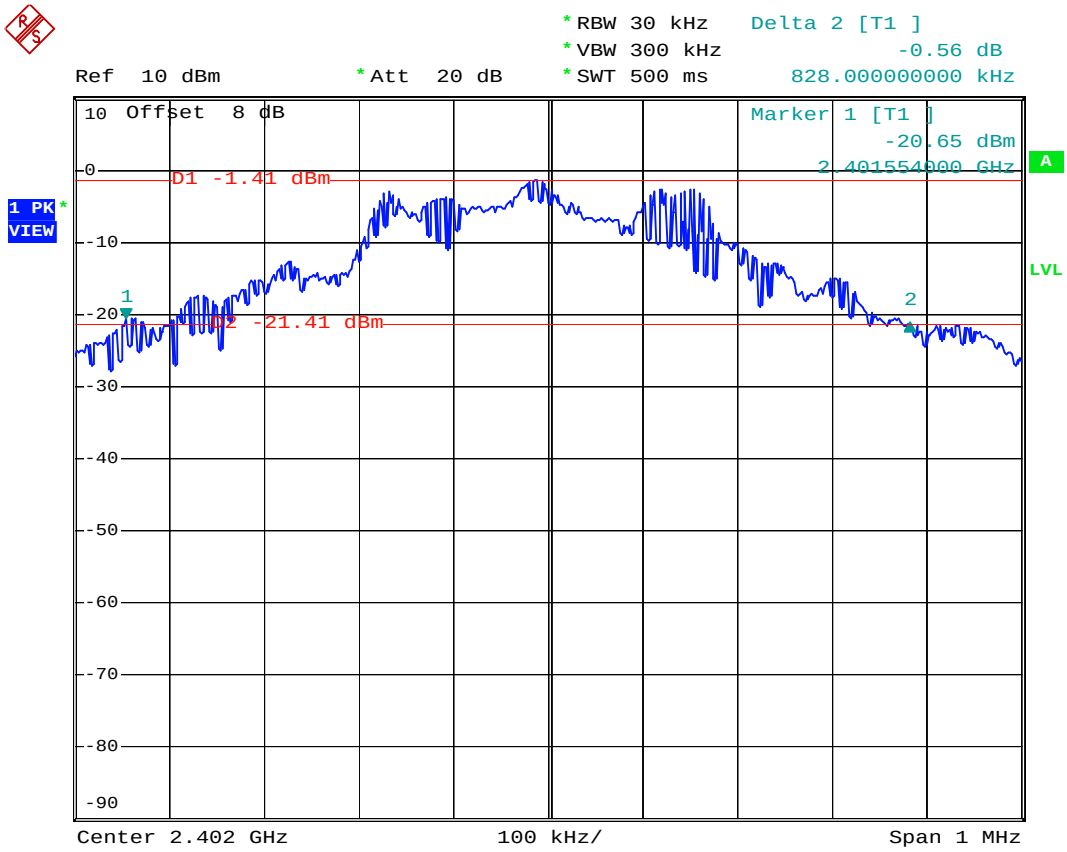
5.7.4 Test Result：See spectrum analyzer plots below

- Application Type : BT
- Temperature : 24°C
- Relative Humidity : 59%
- Test Enginner : James

Channel	Frequency (MHz)	Hopping Channel Bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
00	2402	0.828	1.000	Mode 1
39	2441	0.822	1.000	Mode 2
78	2480	0.826	1.000	Mode 3

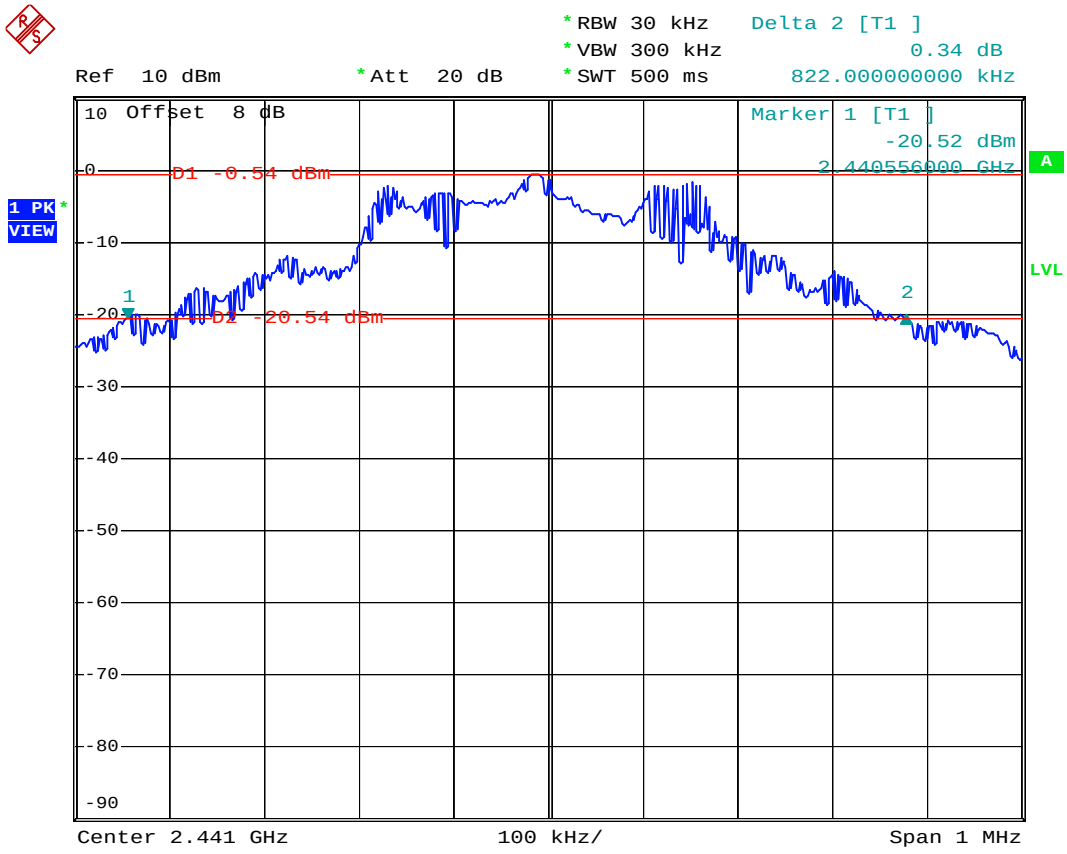
5.7.5 Hopping Channel Bandwidth

Mode 1



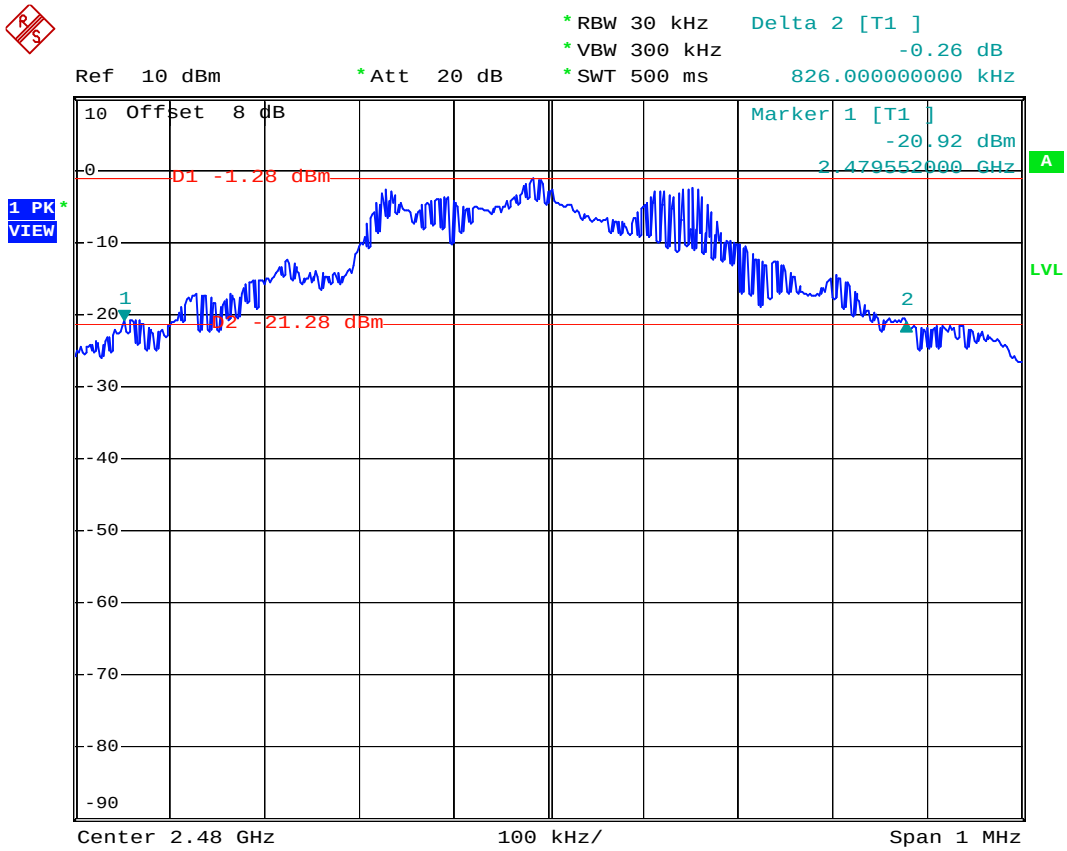
Date: 16.JUN.2006 16:29:50

Mode 2



Date: 16.JUN.2006 16:28:26

Mode 3



Date: 16.JUN.2006 16:26:42

5.8 Dwell Time of Each Frequency

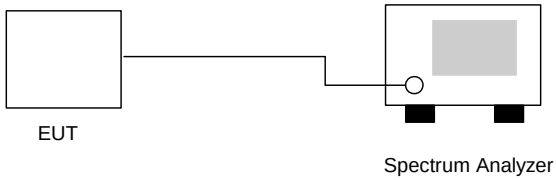
5.8.1 Measuring Instruments：

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 : 59%
- Test Enginner : James

Ch00

Package Mode	Average Hopping Channel	Package Transfer Time (us)	Dwell Time (s)	Limit (s)
DH1	9.3	446	0.131	0.4
DH3	5.4	1706	0.291	0.4
DH5	3.6	2986	0.340	0.4

CH39

Package Mode	Average Hopping Channel	Package Transfer Time (us)	Dwell Time (s)	Limit (s)
DH1	9.4	450	0.134	0.4
DH3	4.4	1716	0.239	0.4
DH5	3.5	2966	0.328	0.4

CH78

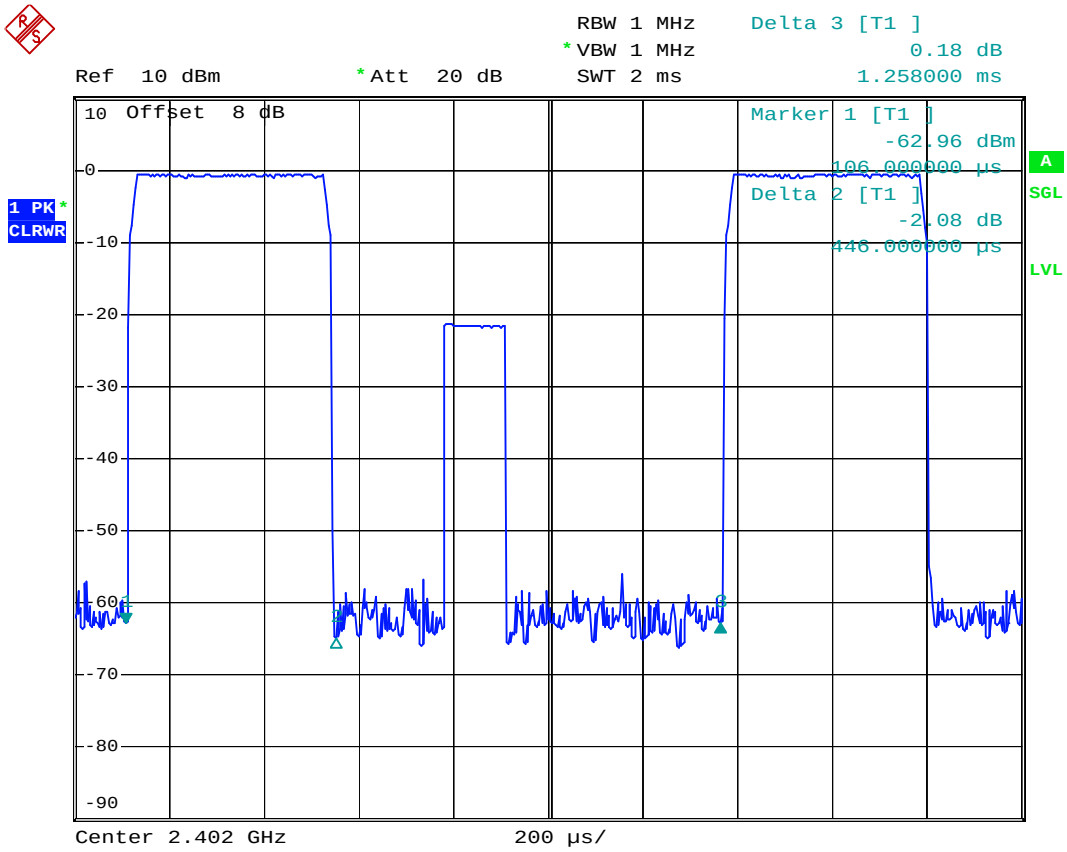
Package Mode	Average Hopping Channel	Package Transfer Time (us)	Dwell Time (s)	Limit (s)
DH1	9.6	446	0.135	0.4
DH3	4.8	1705	0.259	0.4
DH5	3.4	2966	0.319	0.4

※ Remark:

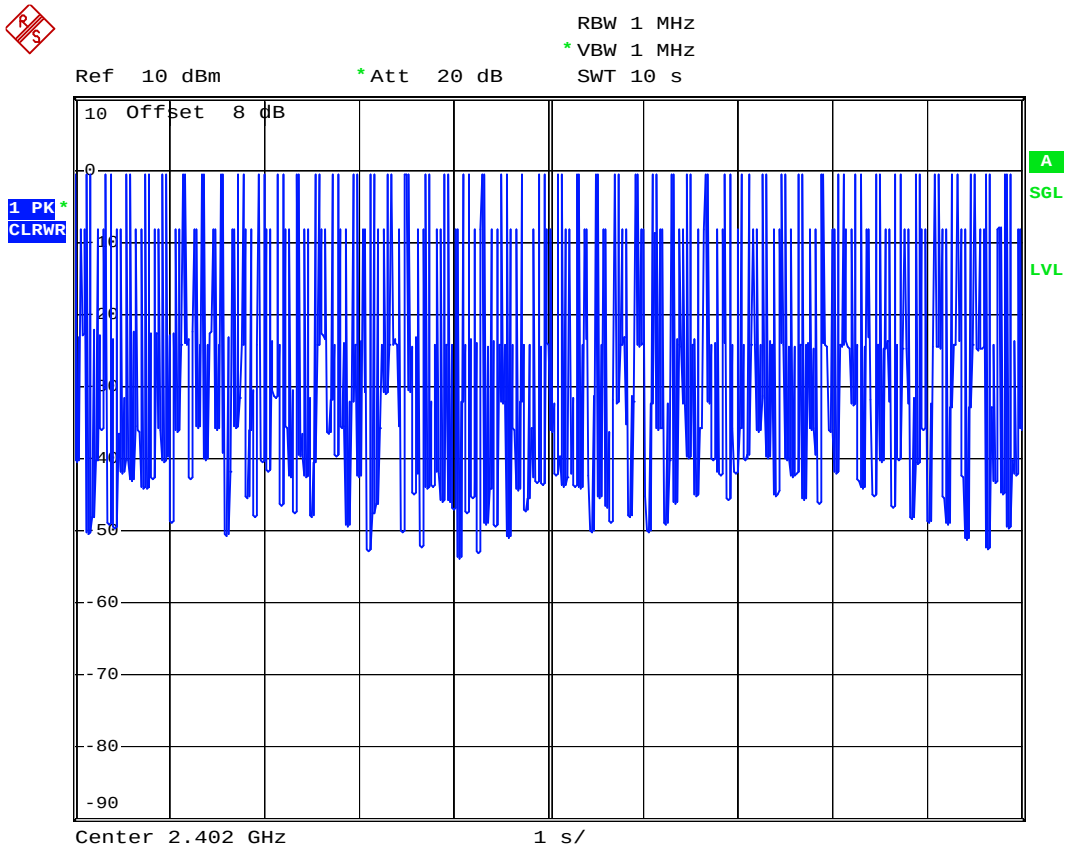
1. Dwell Time=79(channels) x 0.4(s) x average hopping channel x package transfer time
2. 79channels come from the Hopping Channel number.
3. Average Hopping Channel = hops/sweep time
4. t: Package Transfer Time(us)

5.8.5 Dwell Time

DH1 (CH00)

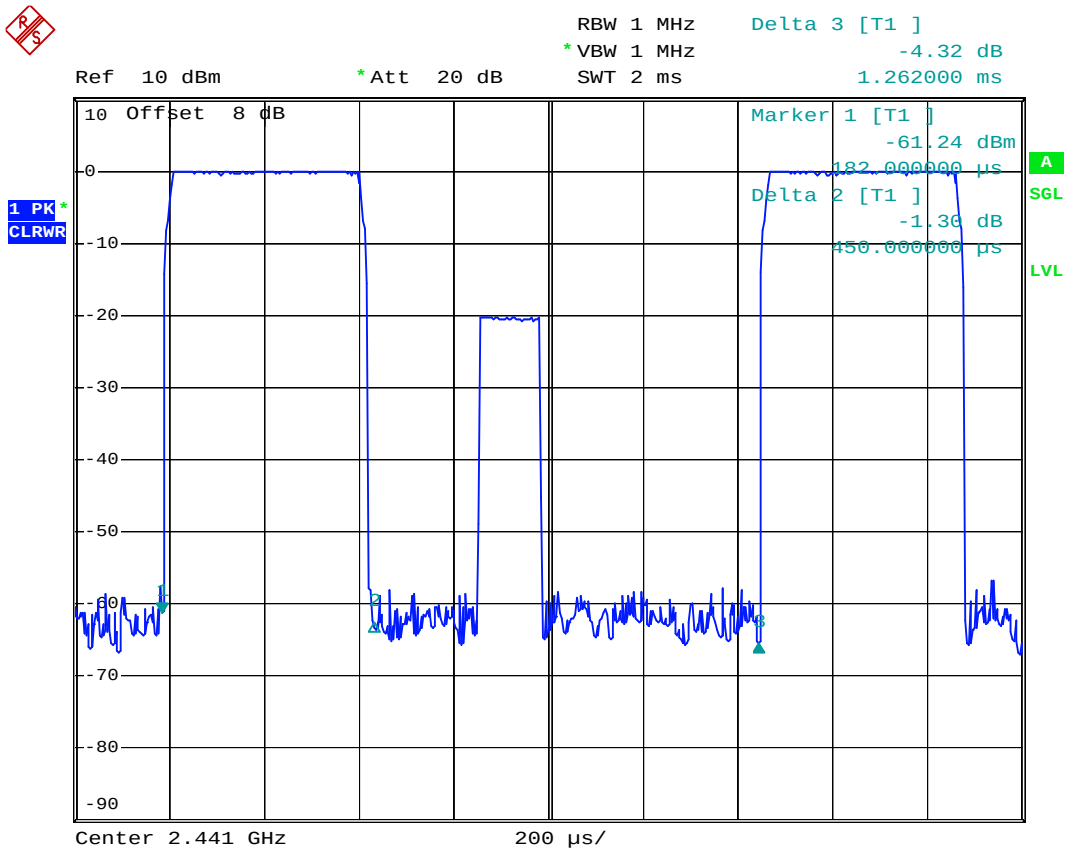


Date: 16.JUN.2006 16:49:44

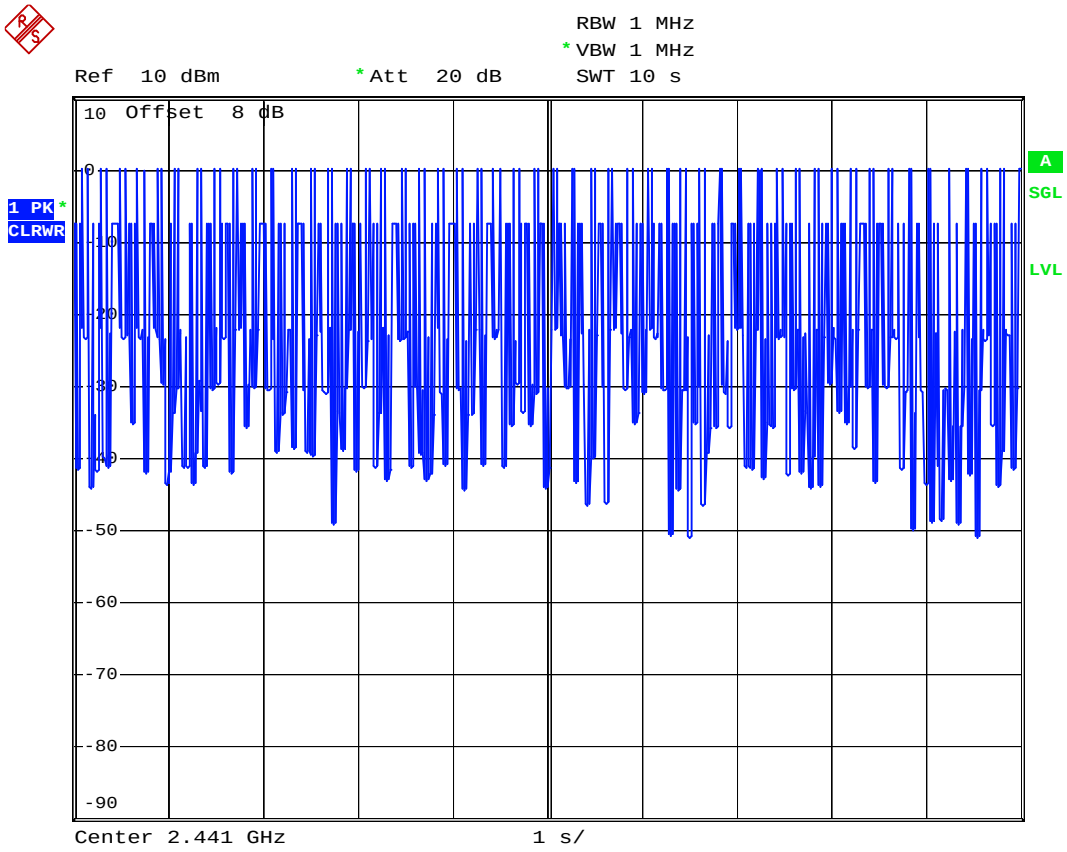


Date: 16.JUN.2006 16:58:08

DH1 (CH39)

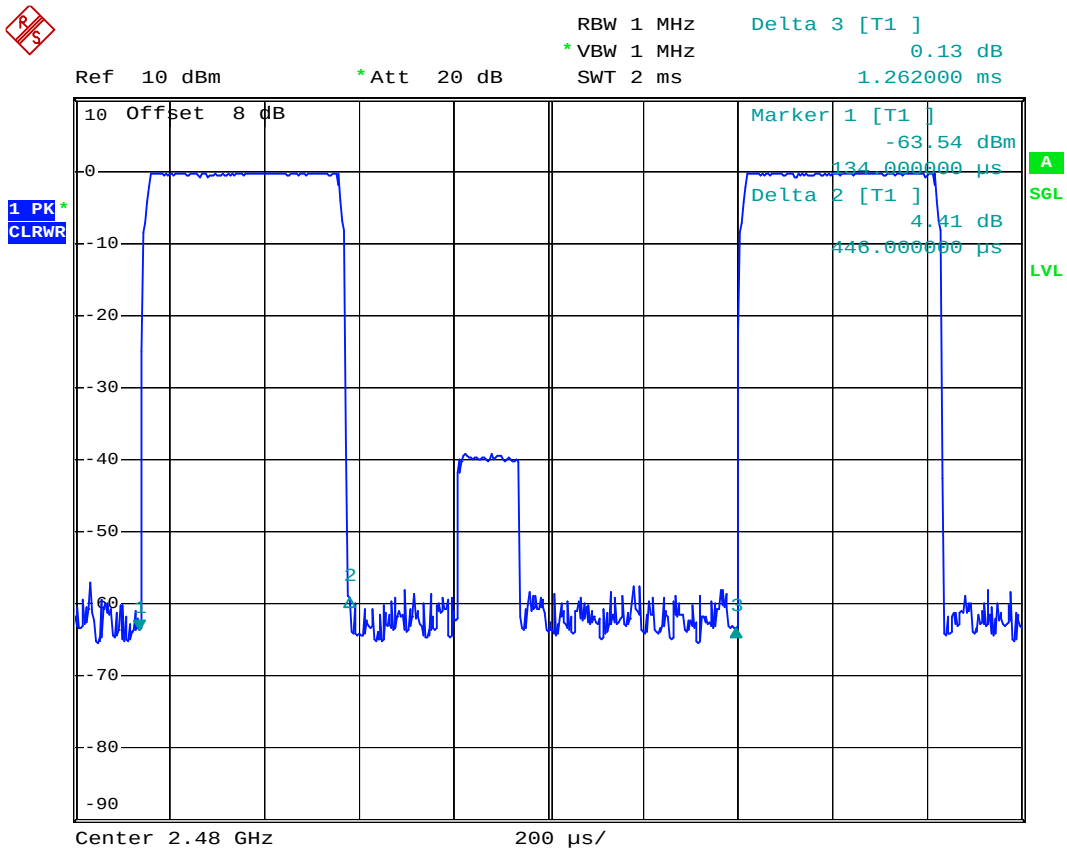


Date: 16.JUN.2006 16:50:21

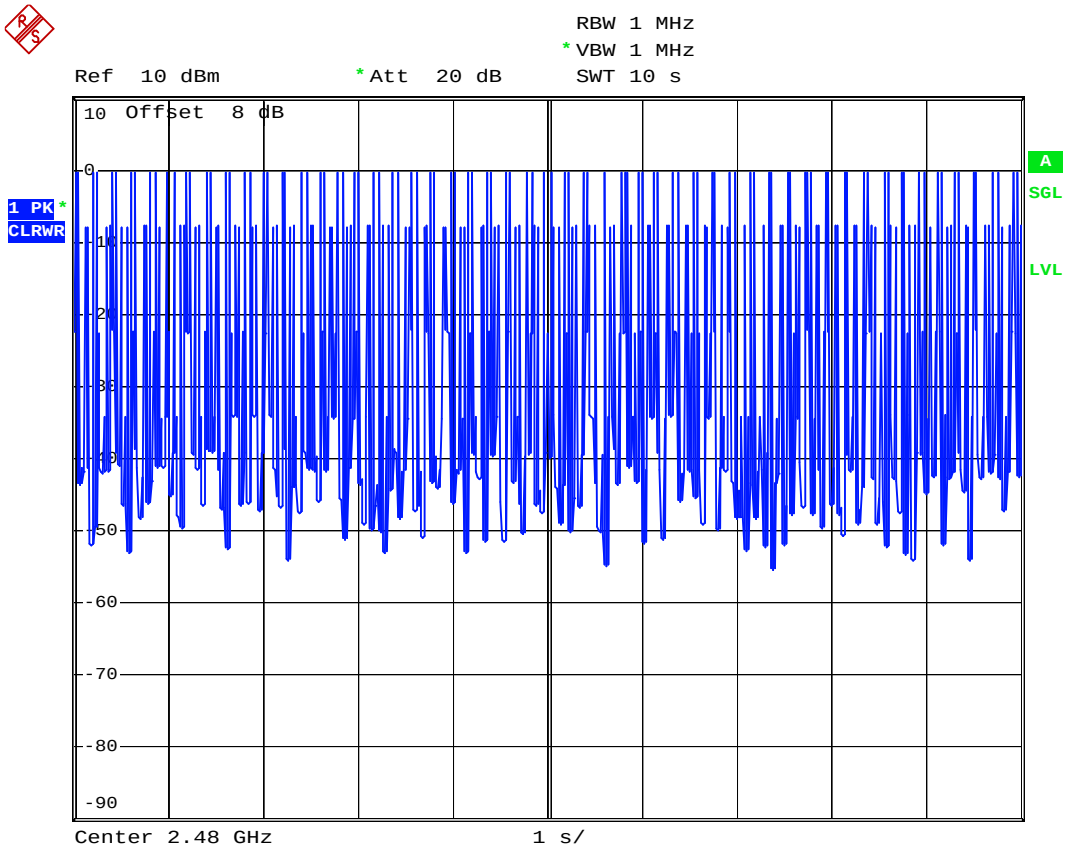


Date: 16.JUN.2006 16:58:31

DH1 (CH78)

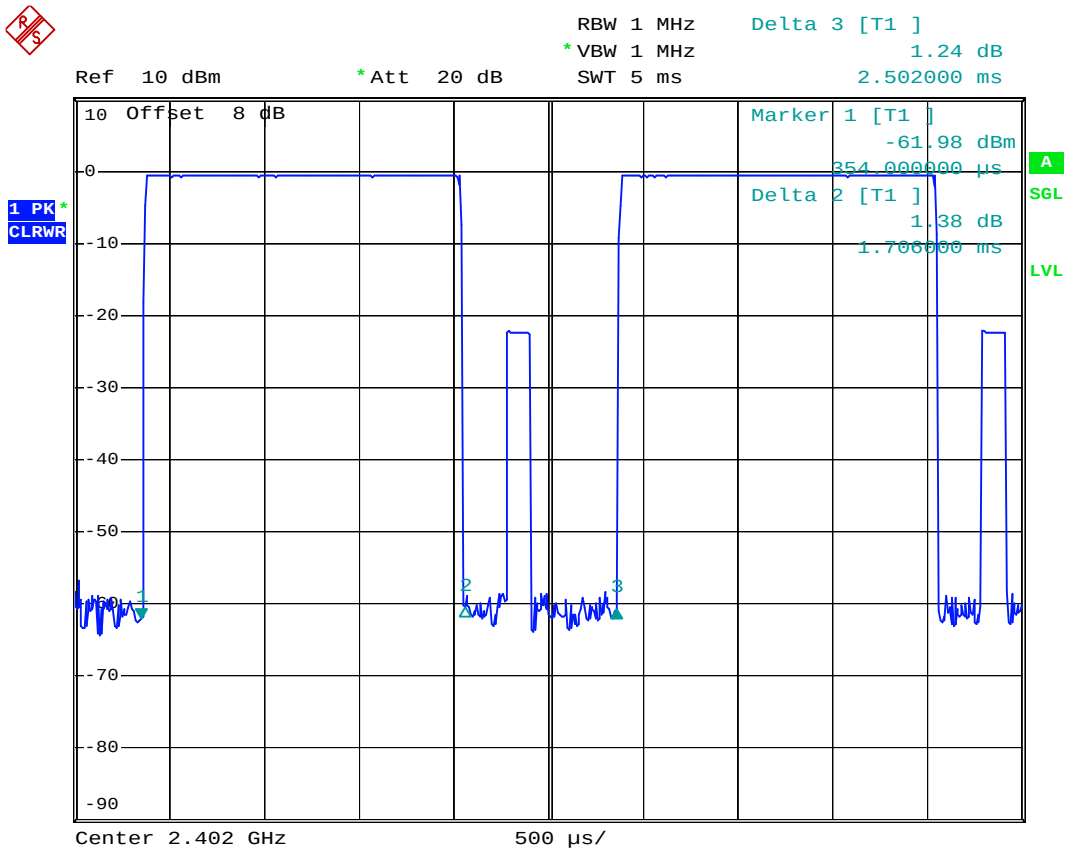


Date: 16.JUN.2006 16:50:59

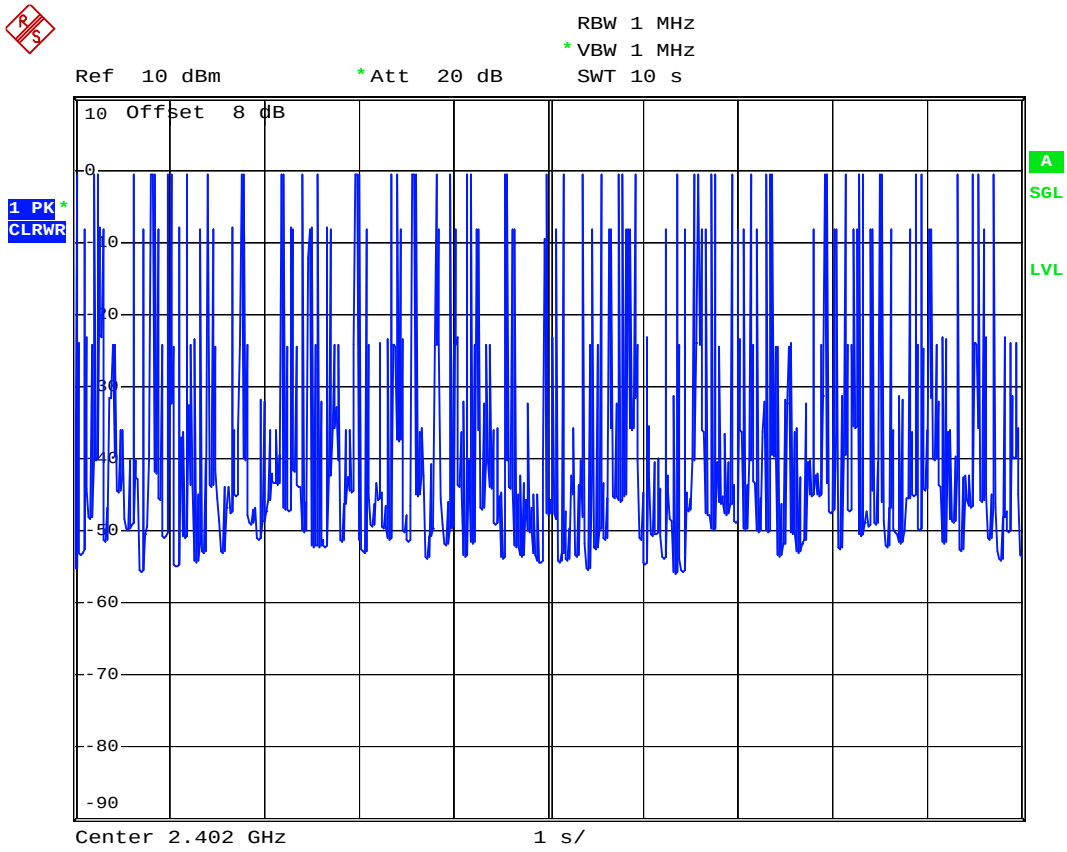


Date: 16.JUN.2006 16:58:54

DH3 (CH00)

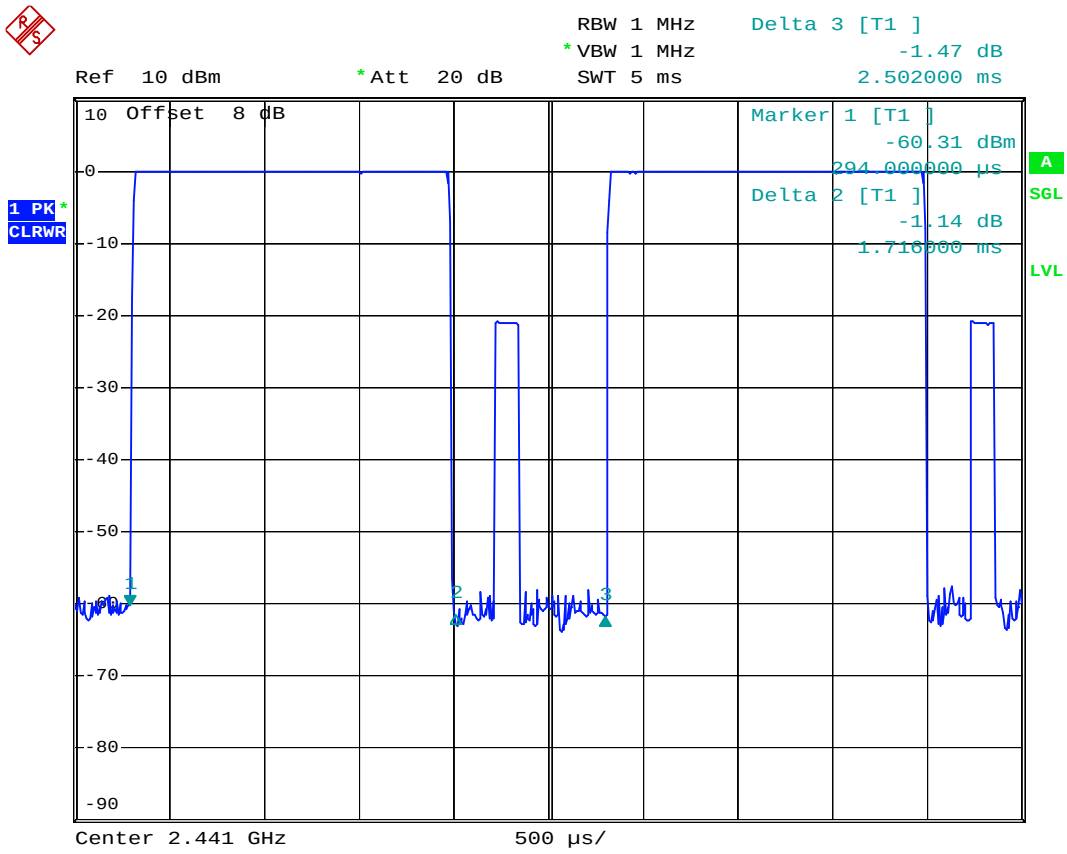


Date: 16.JUN.2006 16:51:47

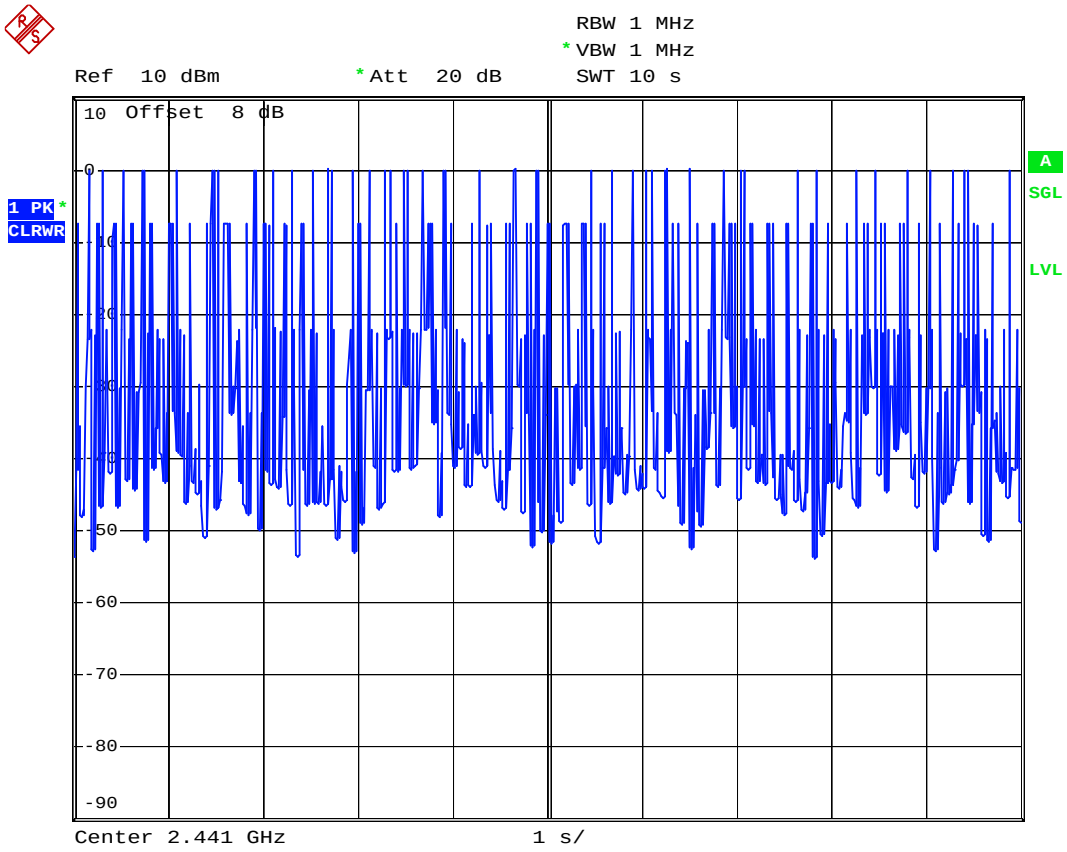


Date: 16.JUN.2006 17:00:23

DH3 (CH39)

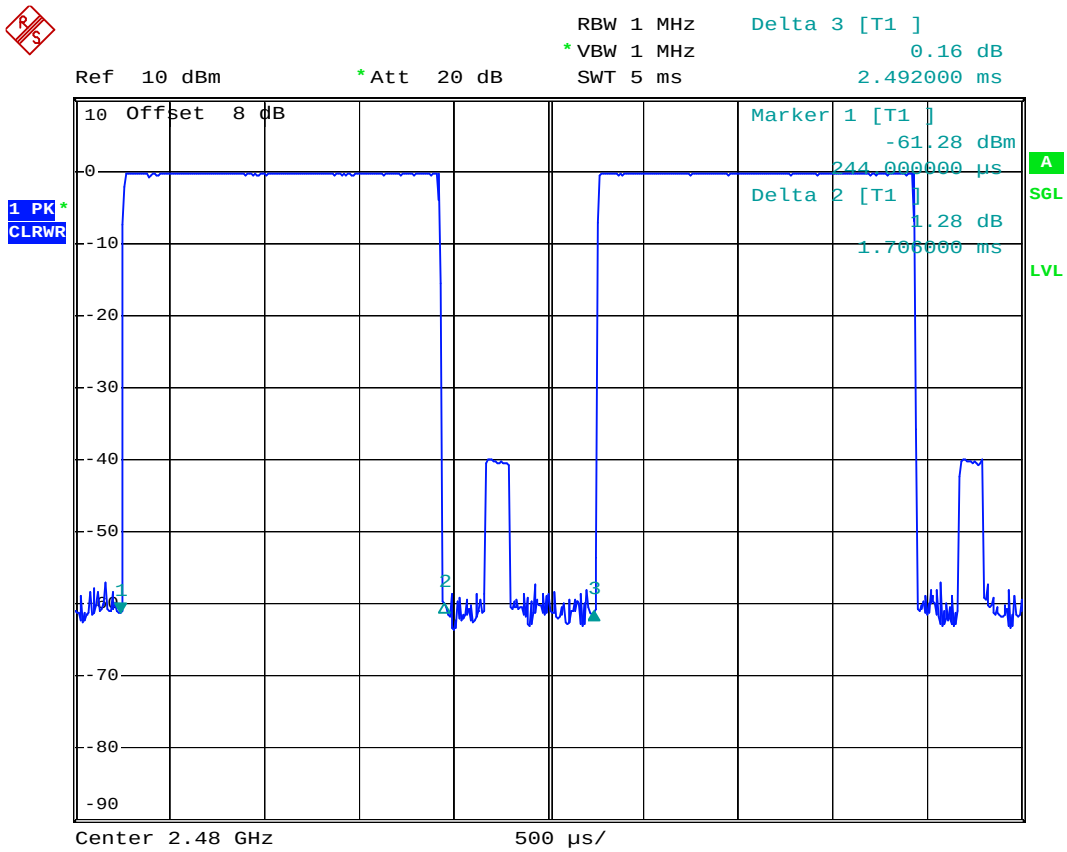


Date: 16.JUN.2006 16:52:06

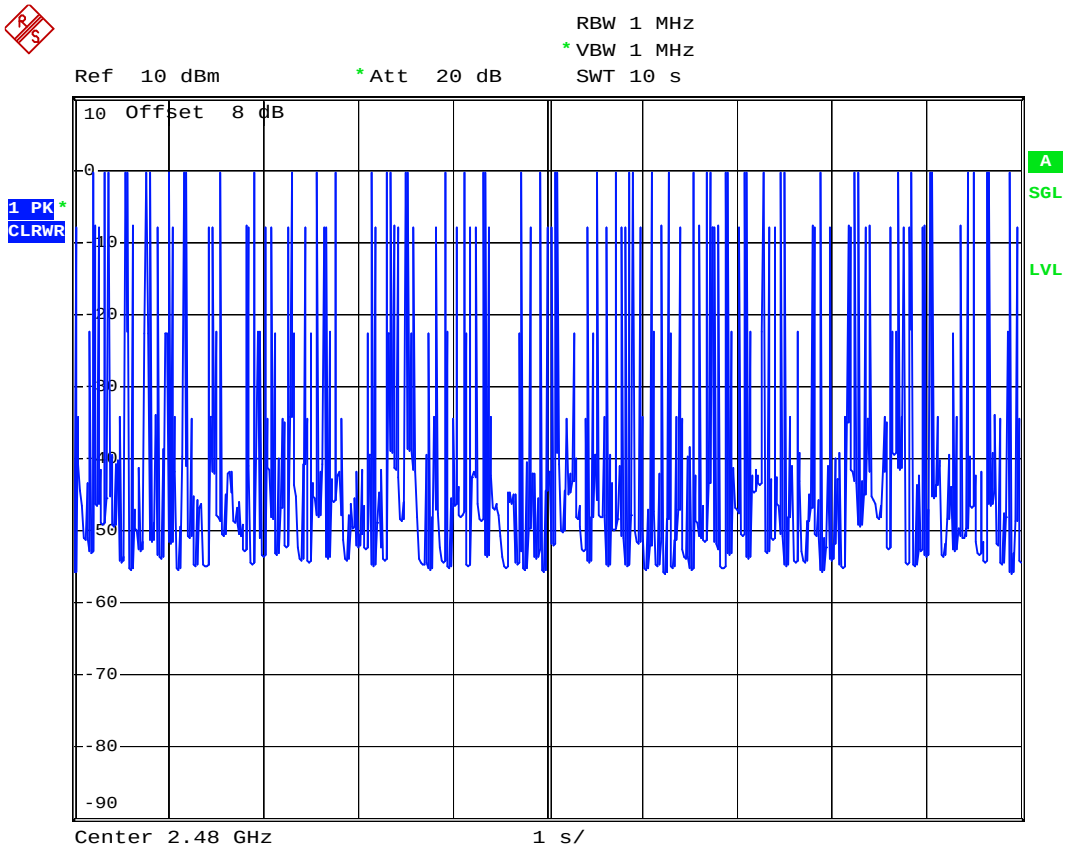


Date: 16.JUN.2006 17:00:42

DH3 (CH78)

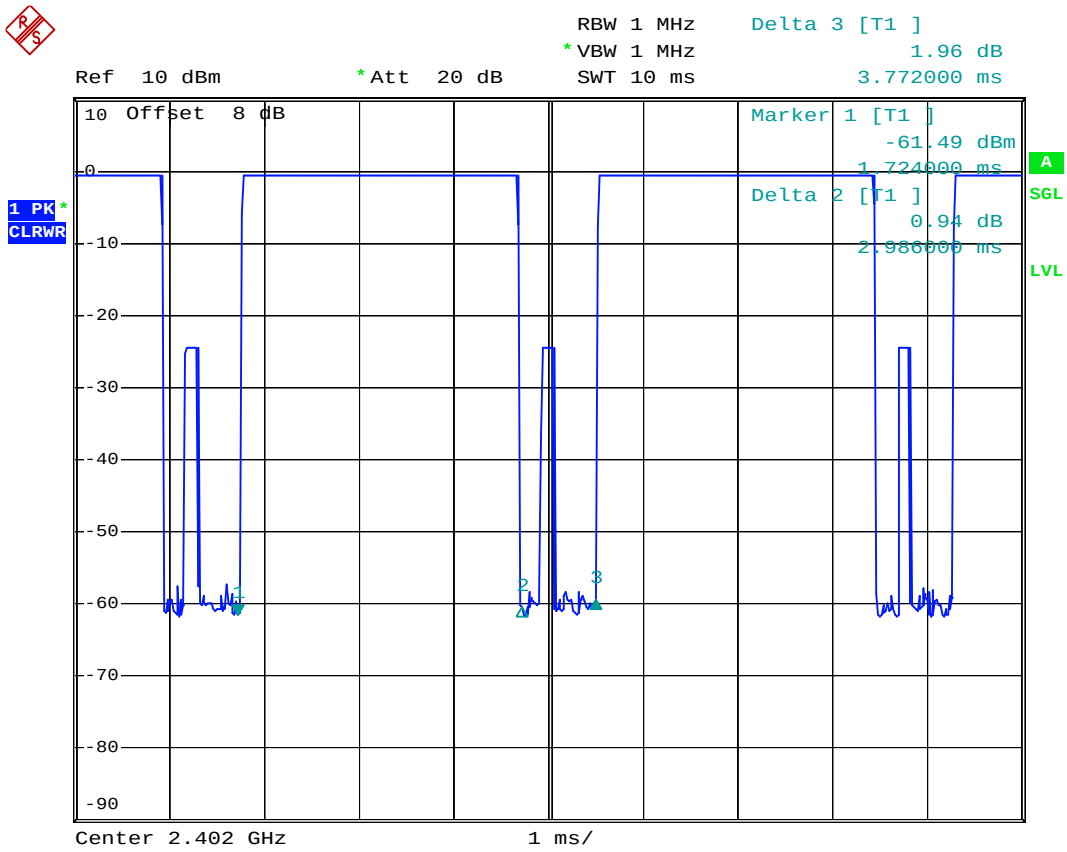


Date: 16.JUN.2006 16:52:37

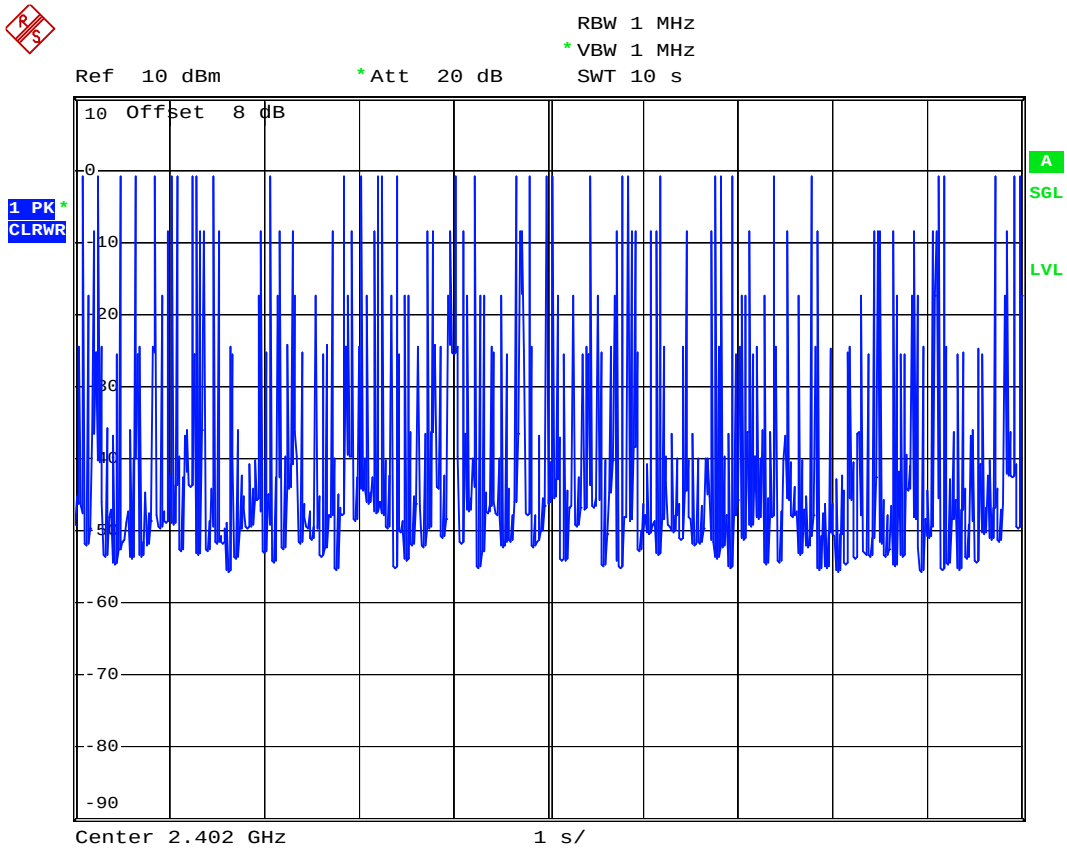


Date: 16.JUN.2006 17:01:00

DH5 (CH00)

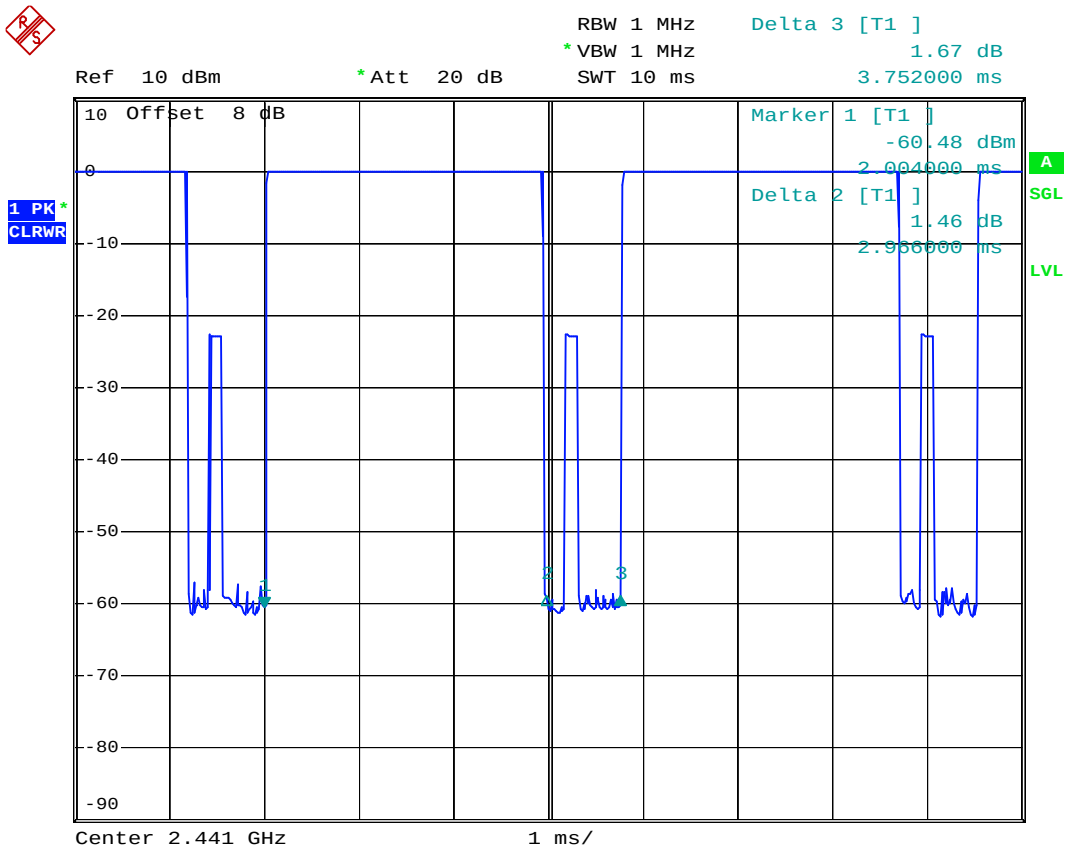


Date: 16.JUN.2006 16:55:07

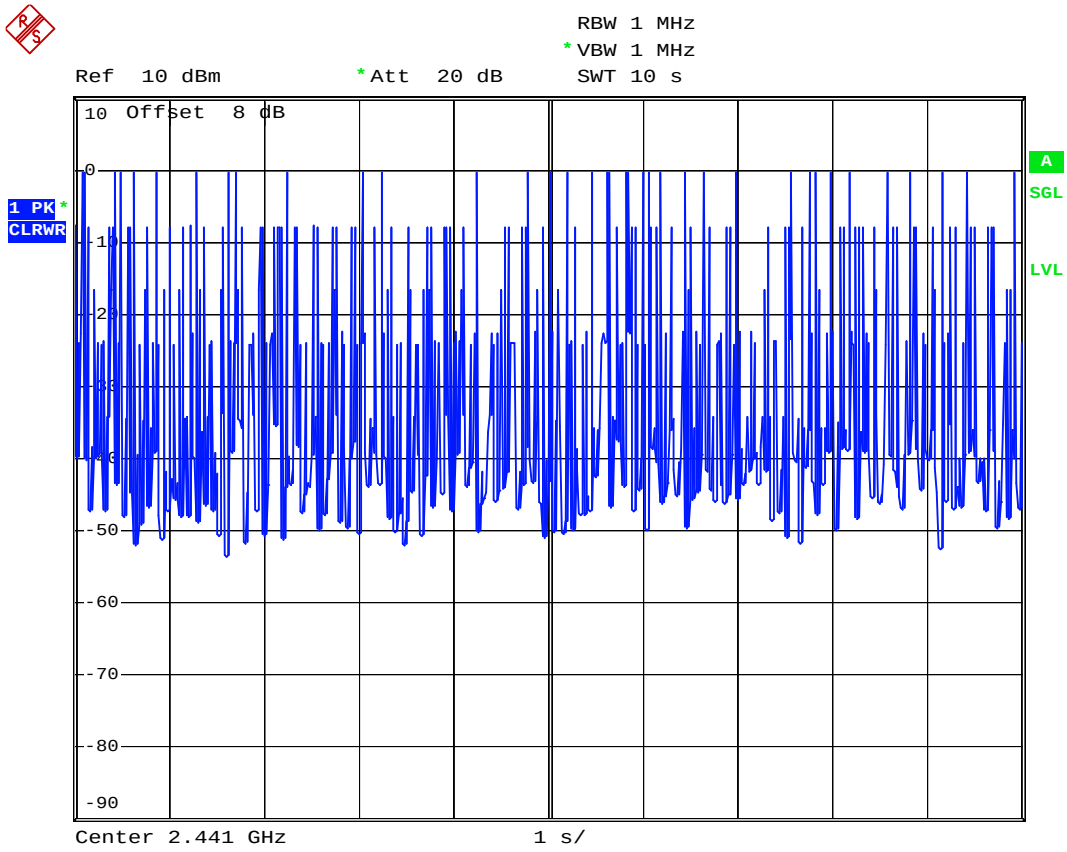


Date: 16.JUN.2006 17:24:06

DH5 (CH39)

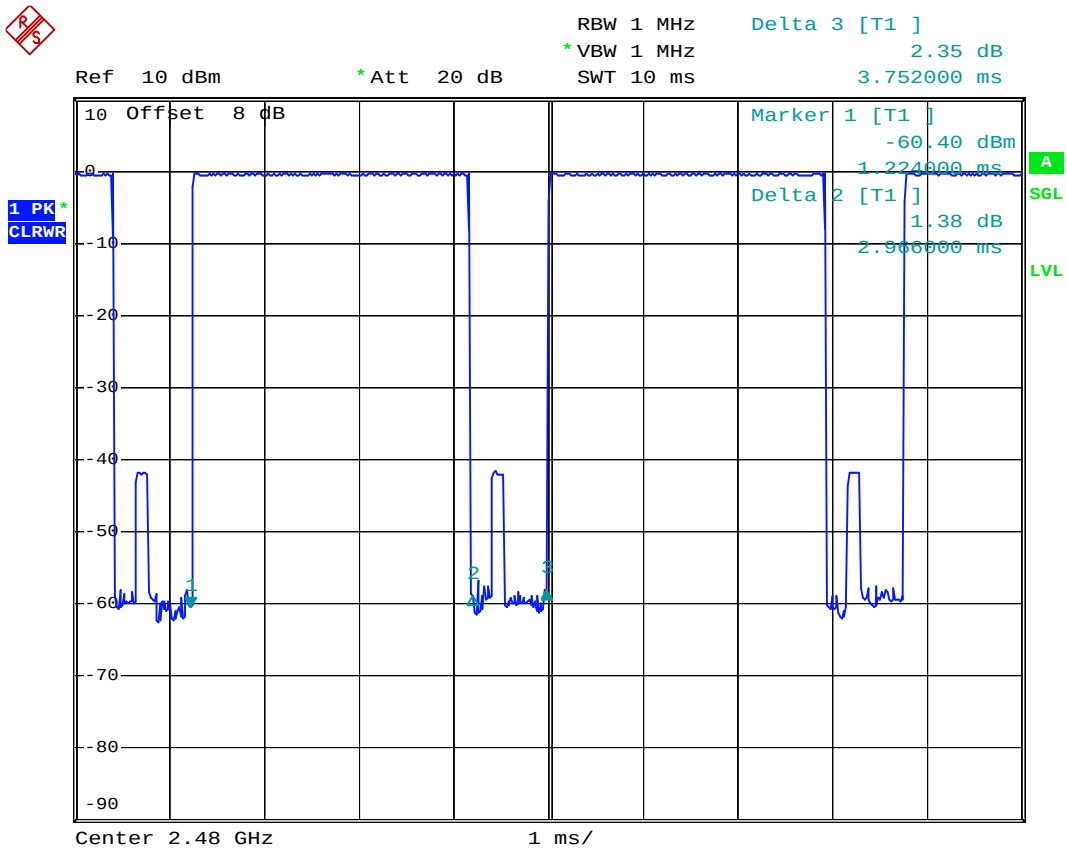


Date: 16.JUN.2006 16:55:33

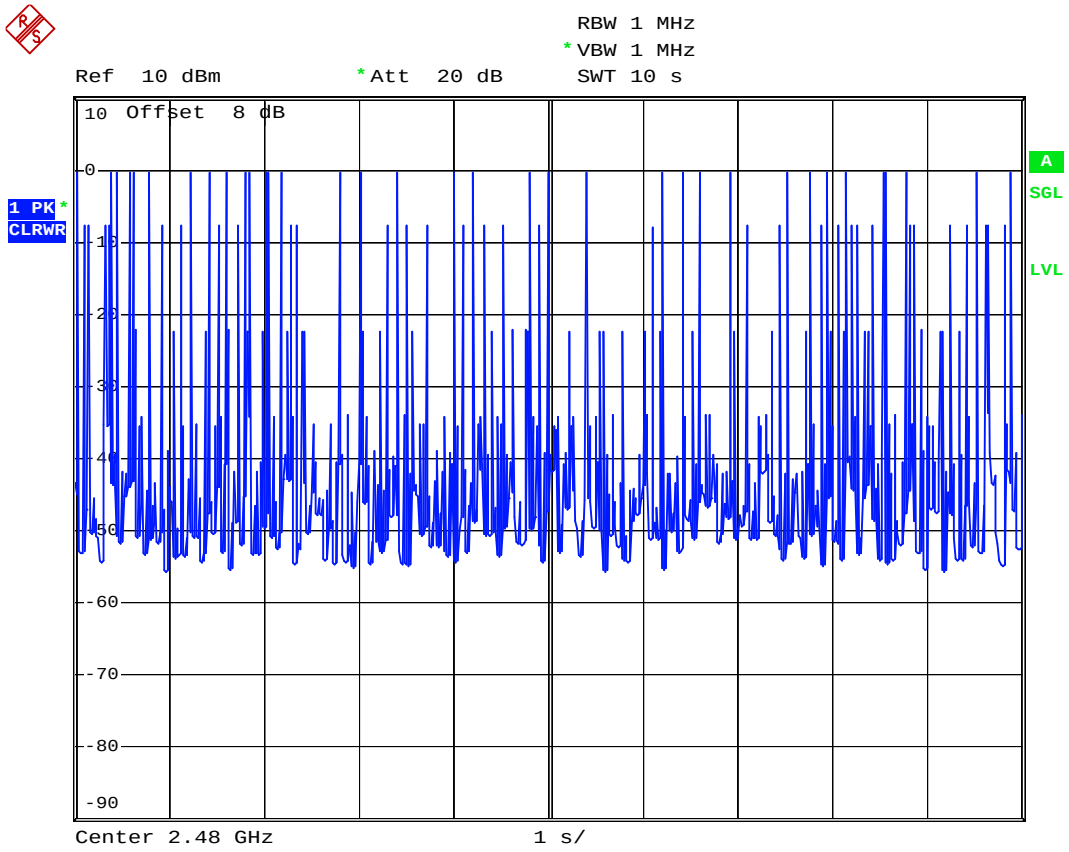


Date: 16.JUN.2006 17:03:12

DH5 (CH78)



Date: 16.JUN.2006 16:56:54



Date: 16.JUN.2006 17:02:34

5.9 Peak Output Power Measurement

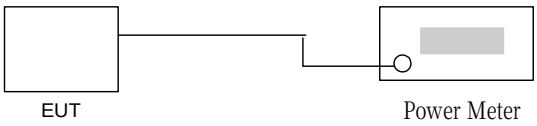
5.9.1 Measuring Instruments：

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. 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 and BT
- Temperature : 24°C
- Relative Humidity : 59 %
- Test Enginner : James

WLAN 802.11b

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
01	2412	18.69	1W/30 dBm
06	2437	19.35	1W/30 dBm
11	2462	18.6	1W/30 dBm

WLAN 802.11g

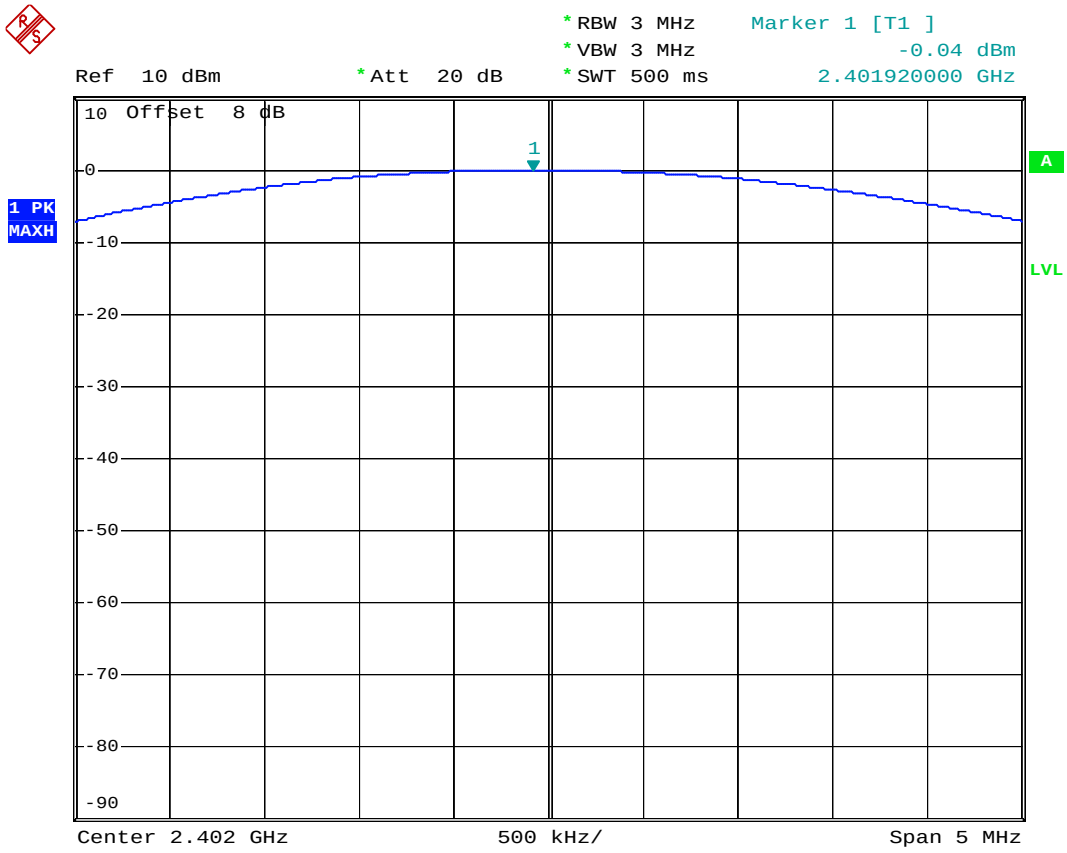
Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
01	2412	20.87	1W/30 dBm
06	2437	21.23	1W/30 dBm
11	2462	20.93	1W/30 dBm

Bluetooth

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
00	2402	-0.04	1W/30 dBm
39	2441	0.64	1W/30 dBm
78	2480	-0.11	1W/30 dBm

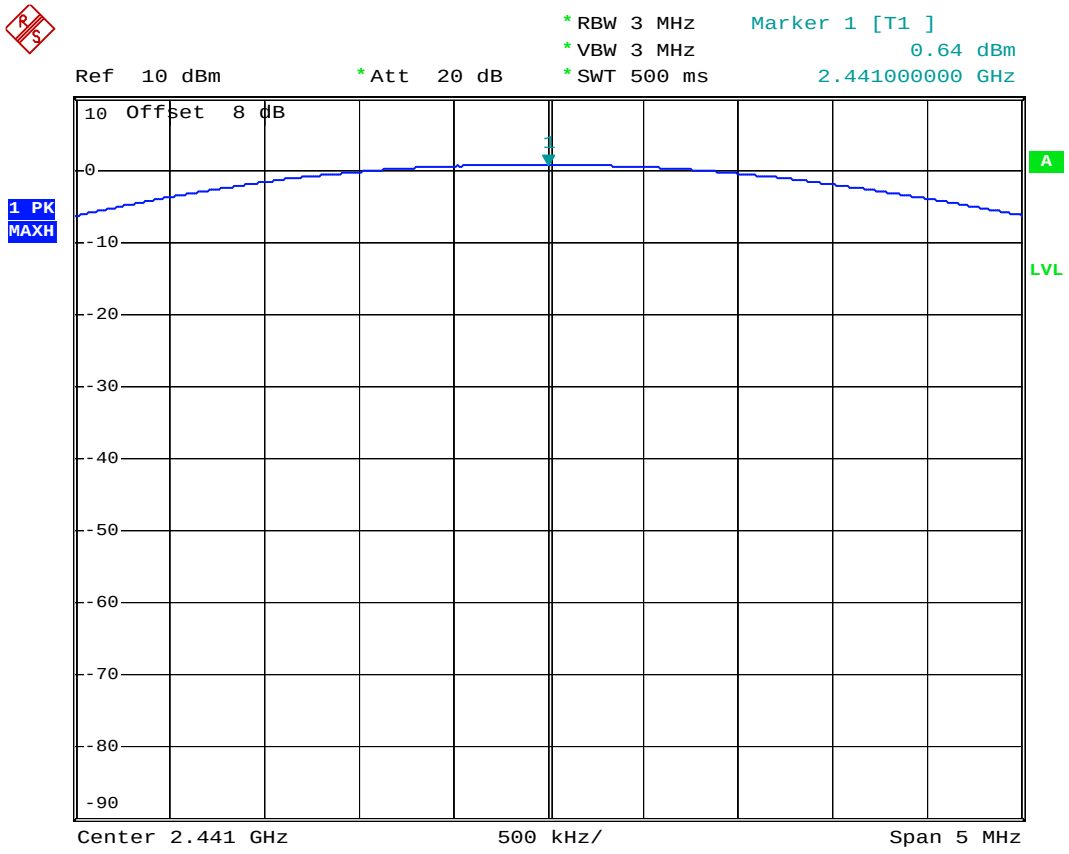
5.9.5 Output Power

BT Mode : CH00 (2402MHz)



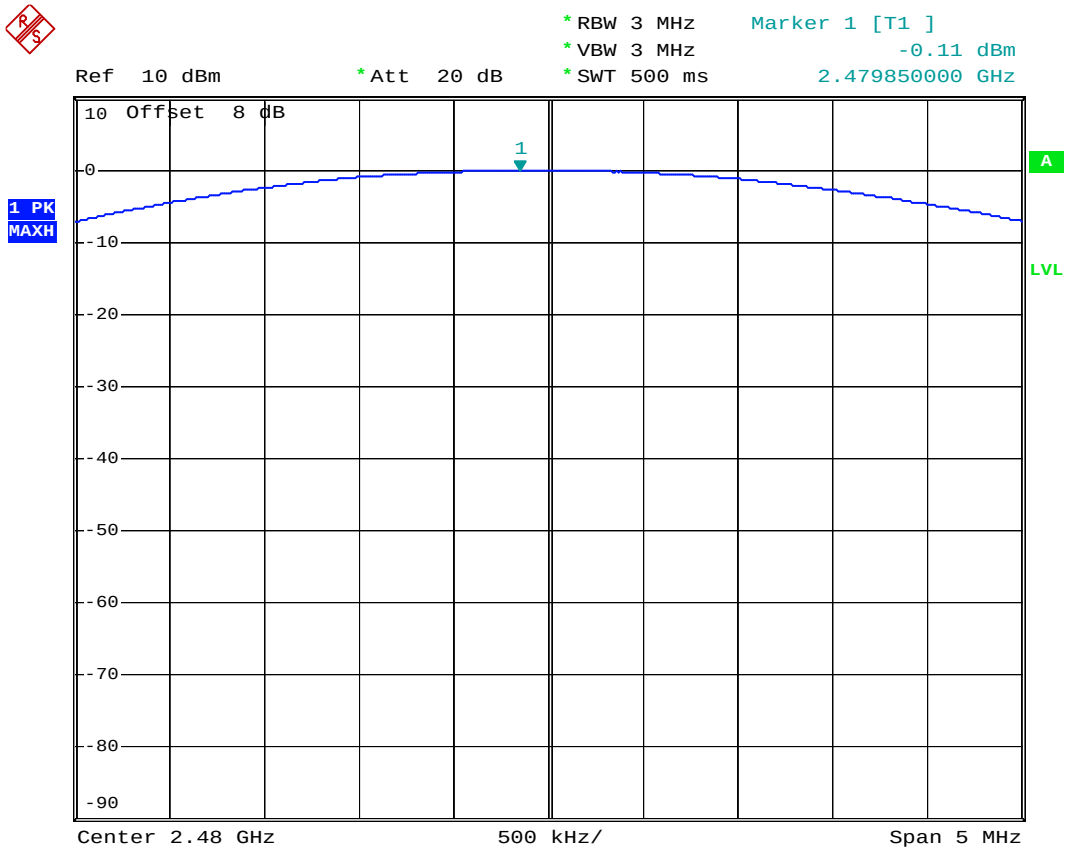
Date: 16.JUN.2006 16:23:51

BT Mode : CH39 (2441MHz)



Date: 16.JUN.2006 16:24:15

BT Mode : CH78 (2480MHz)



Date: 16.JUN.2006 16:24:30

5.10 Conducted Emission

5.10.1 Measuring Instruments

As describ ed in chapter 6 of this test Report.

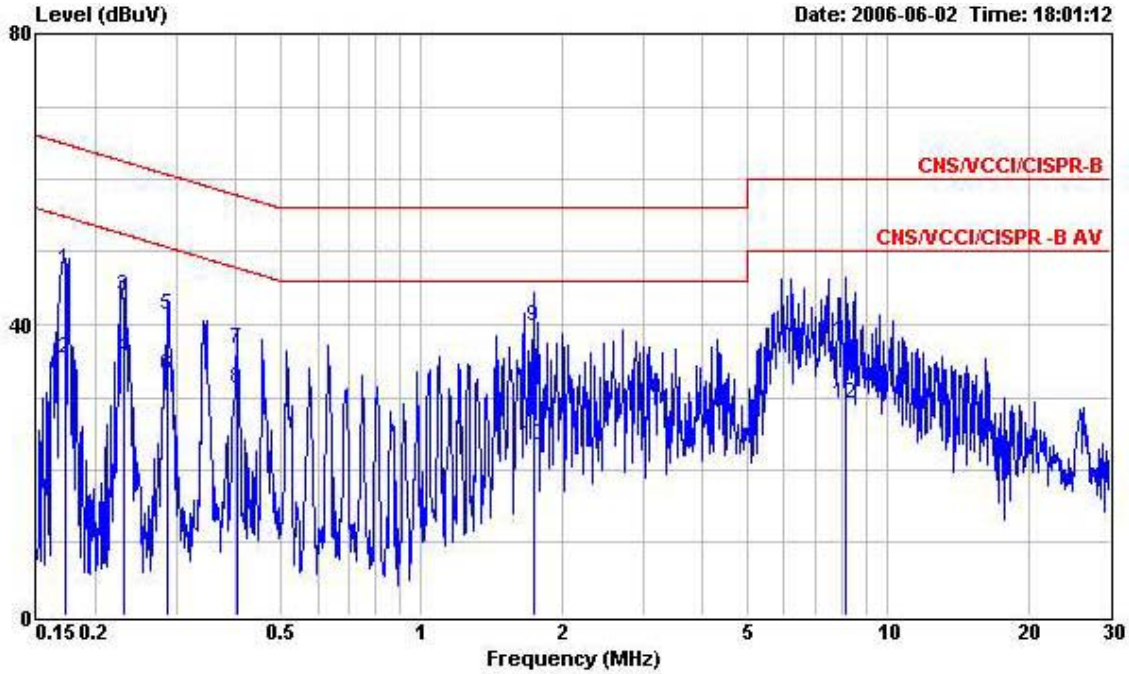
5.10.2 Test Procedures：

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

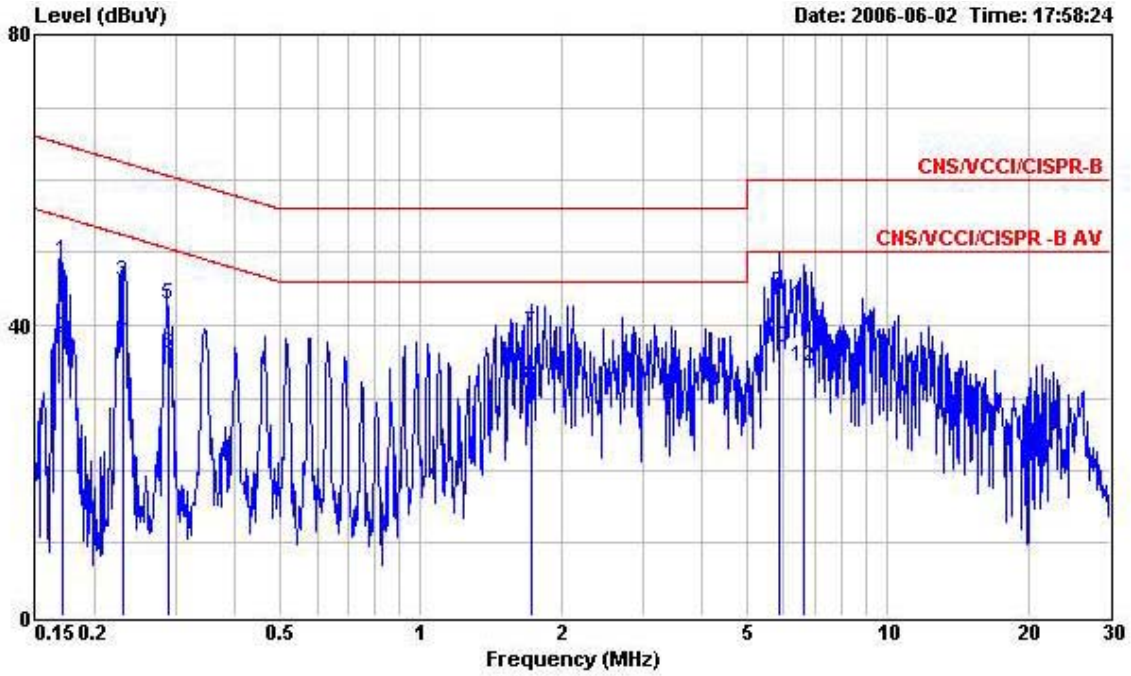
- Temperature : 24 °C
- Relating Humidity : 59 %
- Test Enginner : James
- Test Mode : Mode 1

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



Site : CO01-HY
Condition : CNS/VCCI/CISPR-B 2001/004 200505 LINE
EUT : GSM 850/900/1800/1900 Mobile Phone
: (802.11b AND Bluetooth AND GPS)
Power : 120V/60Hz
Model : FD653101
Memo : PCS1900 IDLE+BT Link+WLAN Link+GPS Rx
Memo : +Earphone+Adaptor+USB Link+Camera+MPEG 4

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.173	47.52	-17.32	64.84	47.44	0.00	0.08	QP
2	0.173	35.38	-19.46	54.84	35.30	0.00	0.08	Average
3	0.230	43.96	-18.49	62.45	43.88	0.00	0.08	QP
4	0.230	35.23	-17.22	52.45	35.15	0.00	0.08	Average
5	0.285	41.20	-19.47	60.67	41.14	0.00	0.06	QP
6	0.285	32.90	-17.77	50.67	32.84	0.00	0.06	Average
7	0.402	36.63	-21.18	57.81	36.59	0.00	0.04	QP
8	0.402	31.11	-16.70	47.81	31.07	0.00	0.04	Average
9	1.740	39.68	-16.32	56.00	39.58	0.00	0.10	QP
10	1.740	23.51	-22.49	46.00	23.41	0.00	0.10	Average
11	8.143	37.70	-22.30	60.00	37.46	0.00	0.24	QP
12	8.143	29.00	-21.00	50.00	28.76	0.00	0.24	Average



Site : CO01-HY
Condition : CNS/VCCI/CISPR-B 2001/004 200505 NEUTRAL
EUT : GSM 850/900/1800/1900 Mobile Phone
: (802.11b AND Bluetooth AND GPS)
Power : 120V/60Hz
Model : FD653101
Memo : PCS1900 IDLE+BT Link+WLAN Link+GPS Rx
Memo : +Earphone+Adaptor+USB Link+Camera+MPEG 4

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.172	48.92	-15.97	64.89	48.85	0.00	0.07	QP
2	0.172	38.10	-16.79	54.89	38.03	0.00	0.07	Average
3	0.229	45.94	-16.53	62.47	45.86	0.00	0.08	QP
4	0.229	38.83	-13.64	52.47	38.75	0.00	0.08	Average
5	0.288	42.82	-17.77	60.59	42.76	0.00	0.06	QP
6	0.288	36.09	-14.50	50.59	36.03	0.00	0.06	Average
7	1.721	39.08	-16.92	56.00	38.98	0.00	0.10	QP
8	1.721	31.61	-14.39	46.00	31.51	0.00	0.10	Average
9	5.866	44.45	-15.55	60.00	44.25	0.00	0.20	QP
10	5.866	36.94	-13.06	50.00	36.74	0.00	0.20	Average
11	6.624	42.58	-17.42	60.00	42.37	0.00	0.21	QP
12	6.624	34.41	-15.59	50.00	34.20	0.00	0.21	Average

5.11 Radiated Emission Measurement

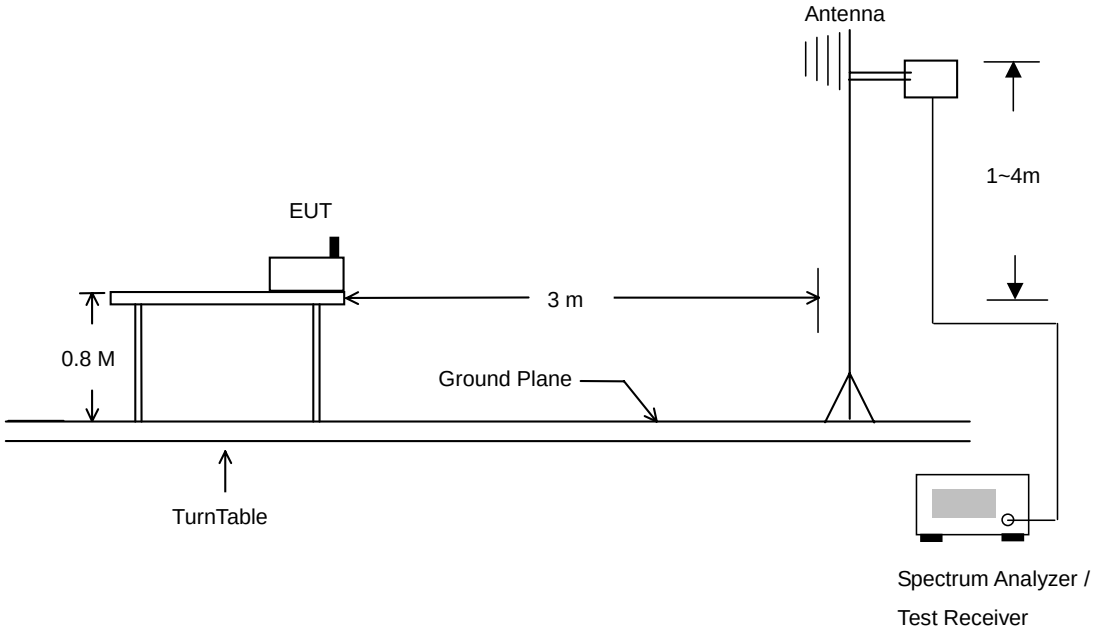
5.11.1 Measuring Instruments

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.

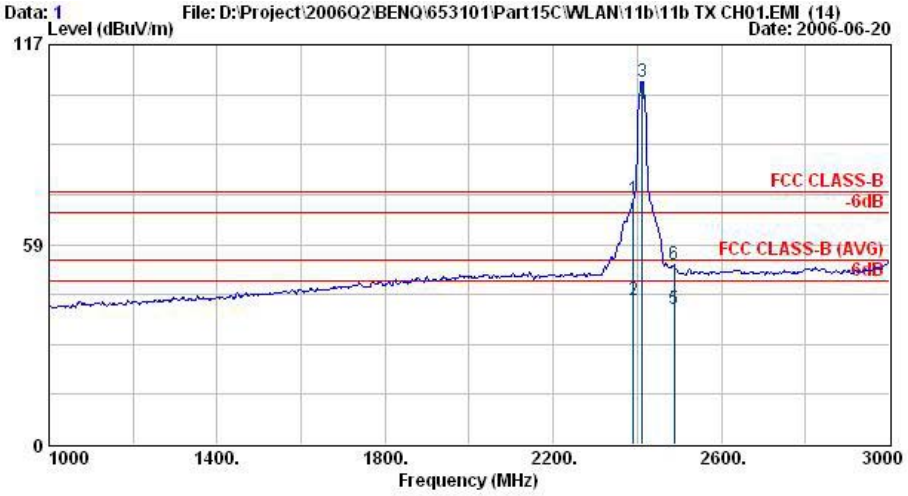
5.11.3 Typical Test Setup Layout of Radiated Emission



5.11.4 Test Data

- Temperature : 26°C
- Relating Humidity : 57%
- Test Enginner : Andrew
- Test Mode : Mode 1
- Polarization : Horizontal

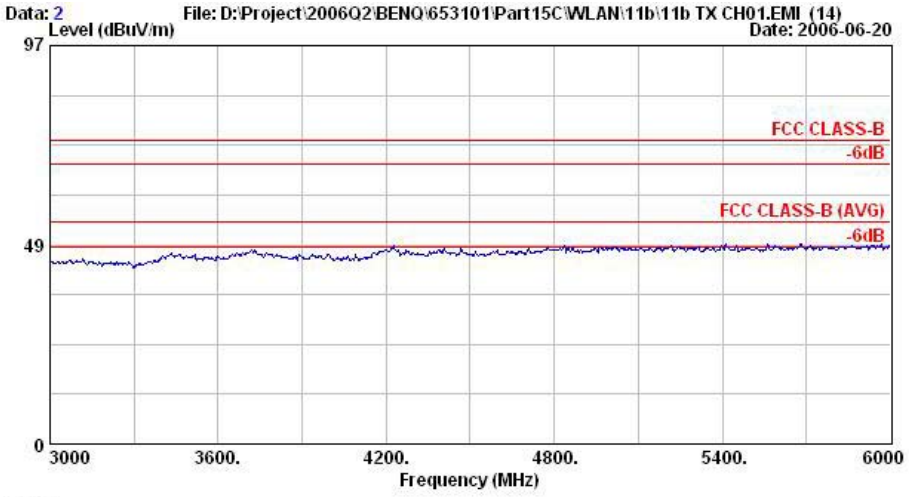
■ The test that passed at minimum margin was marked by the frame in the following table.



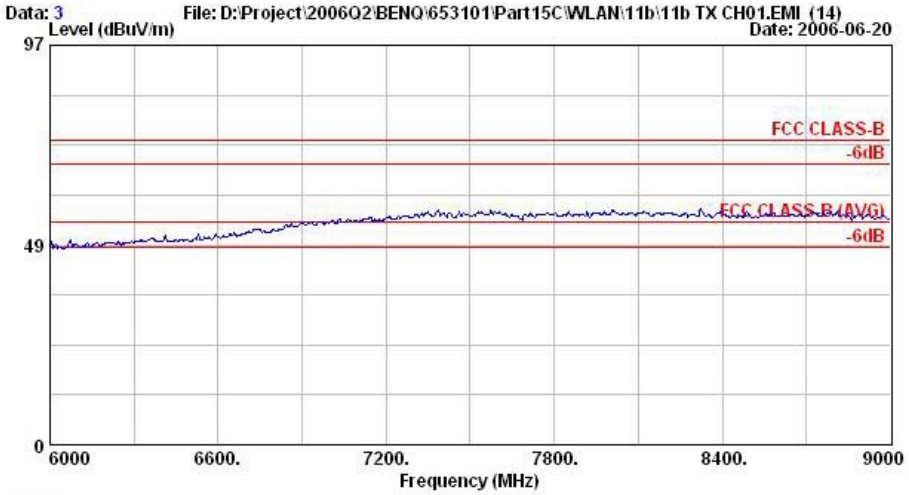
Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH01;2412MHz
Plane : E2

		Freq	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/m	dB	dB	cm	deg	
1	!	2390.00	71.81	-2.19	74.00	72.75	30.26	4.26	35.46	100	360	Peak
2		2390.00	42.37	-11.63	54.00	43.31	30.26	4.26	35.46	100	341	Average
3	@	2412.00	106.28			107.21	30.27	4.26	35.46	100	360	Peak
4	@	2412.00	99.77			100.70	30.27	4.26	35.46	100	341	Average
5		2488.00	39.66	-14.34	54.00	40.51	30.30	4.36	35.51	100	341	Average
6		2488.00	52.45	-21.55	74.00	53.30	30.30	4.36	35.51	100	360	Peak

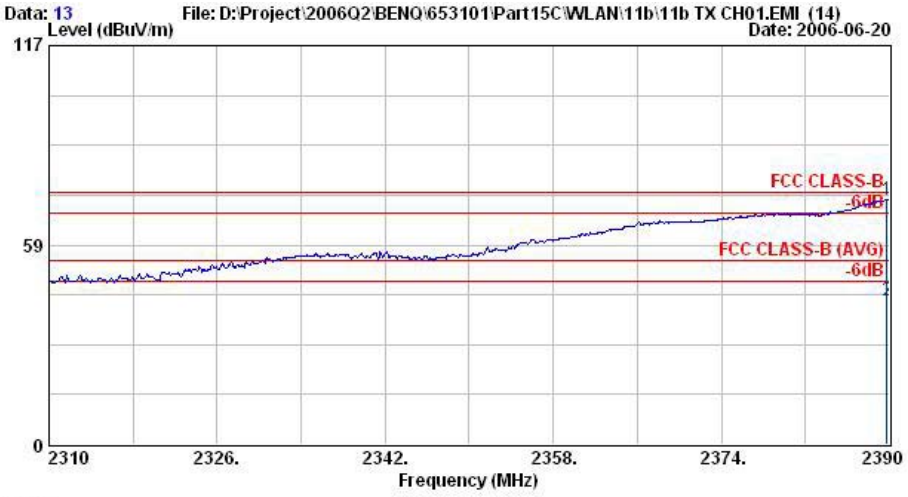
Remark: #3 and #4 Fundamental Signal



Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH01;2412MHz
Plane : E2



Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH01;2412MHz
Plane : E2

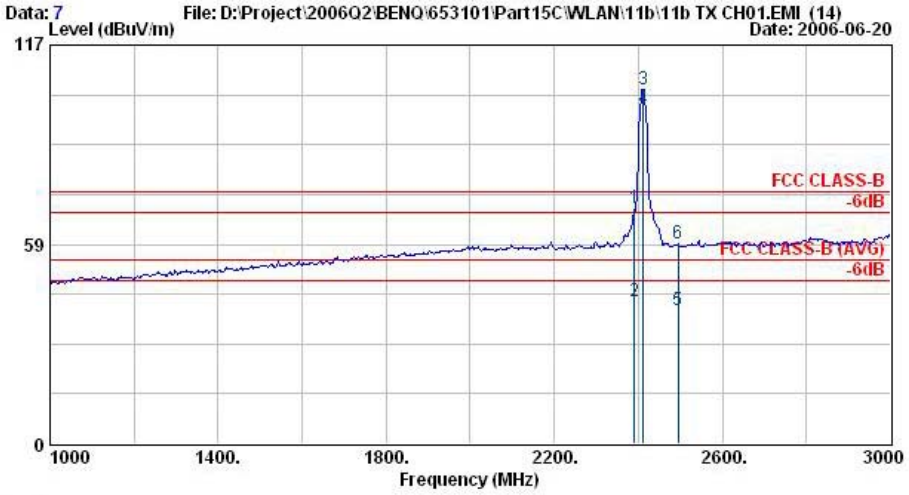


Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH01;2412MHz
Plane : E2

		Freq	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/m	dB	dB	cm	deg	
1	!	2389.76	71.81	-2.19	74.00	72.75	30.26	4.26	35.46	100	0	Peak
2		2389.76	42.37	-11.63	54.00	43.31	30.26	4.26	35.46	100	341	Average

- Polarization : Vertical

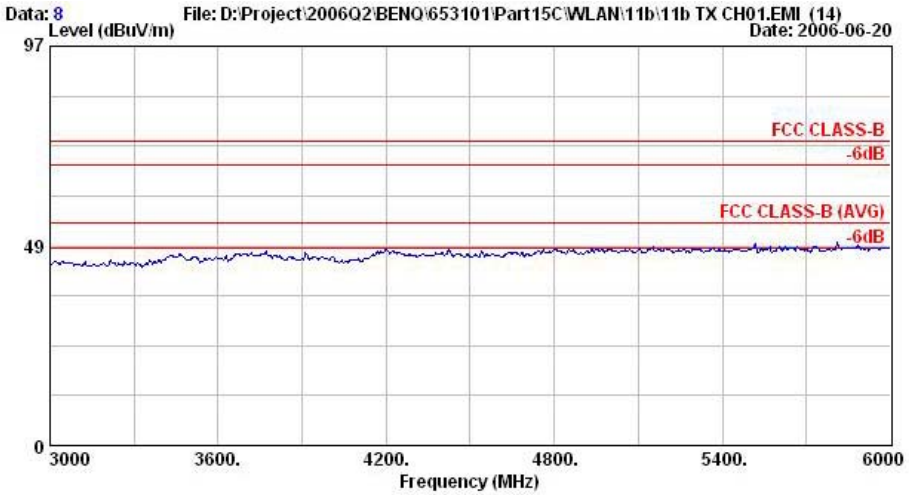
■ The test that passed at minimum margin was marked by the frame in the following table.



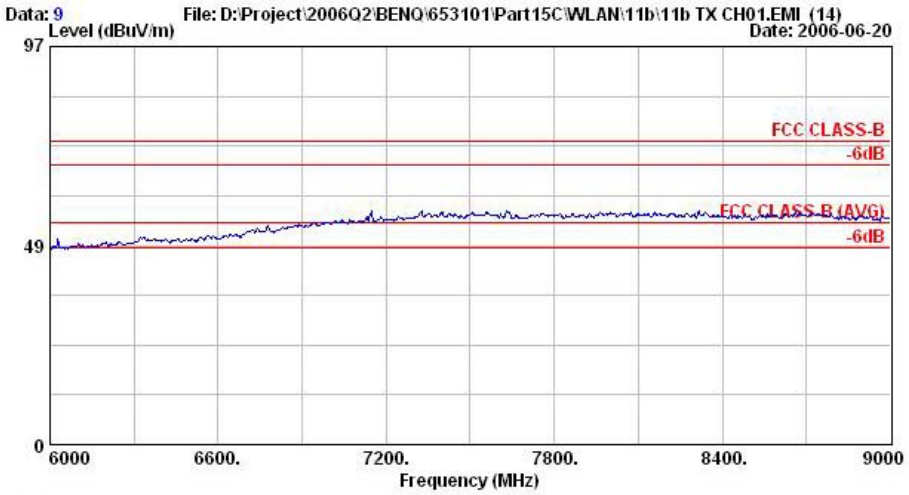
Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH01;2412MHz
Plane : E2

		Freq	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/m	dB	dB	cm	deg	
1	!	2390.00	69.21	-4.79	74.00	70.15	30.26	4.26	35.46	100	0	Peak
2		2390.00	41.69	-12.31	54.00	42.63	30.26	4.26	35.46	100	264	Average
3	@	2412.00	104.15			105.08	30.27	4.26	35.46	100	0	Peak
4	@	2412.00	98.35			99.28	30.27	4.26	35.46	100	264	Average
5		2494.00	39.10	-14.90	54.00	39.94	30.30	4.39	35.53	100	264	Average
6		2494.00	58.57	-15.43	74.00	59.41	30.30	4.39	35.53	100	0	Peak

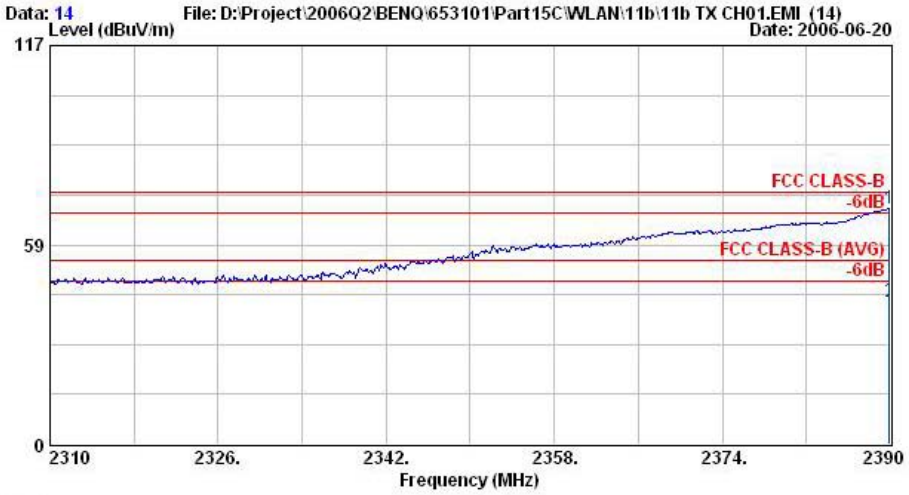
Remark: #3 and #4 Fundamental Signal



Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH01;2412MHz
Plane : E2



Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH01;2412MHz
Plane : E2



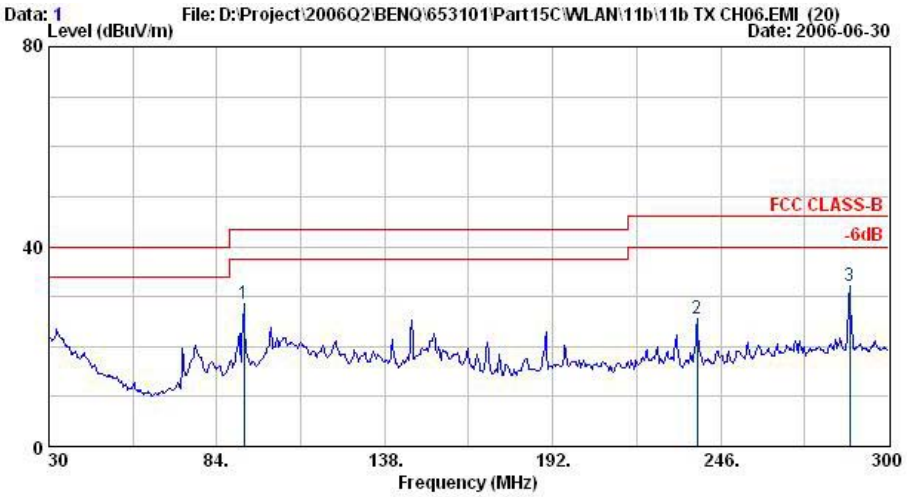
Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH01;2412MHz
Plane : E2

	Freq	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/m	dB	dB	cm	deg	
1 !	2389.92	69.21	-4.79	74.00	70.14	30.26	4.26	35.46	100	0	Peak
2	2389.92	41.69	-32.31	74.00	42.63	30.26	4.26	35.46	100	264	Peak

Remark: There is no more obvious spurious emission except the listings above.

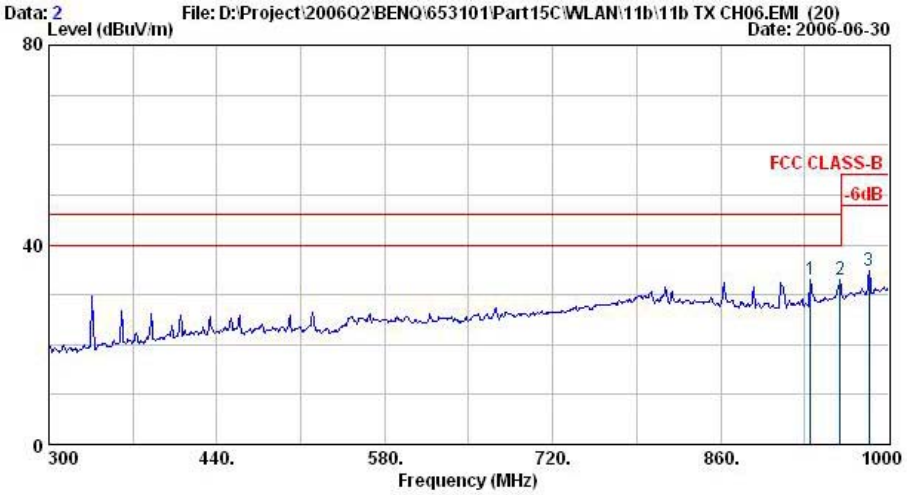
- Test Mode : Mode 2
- Polarization : Horizontal

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



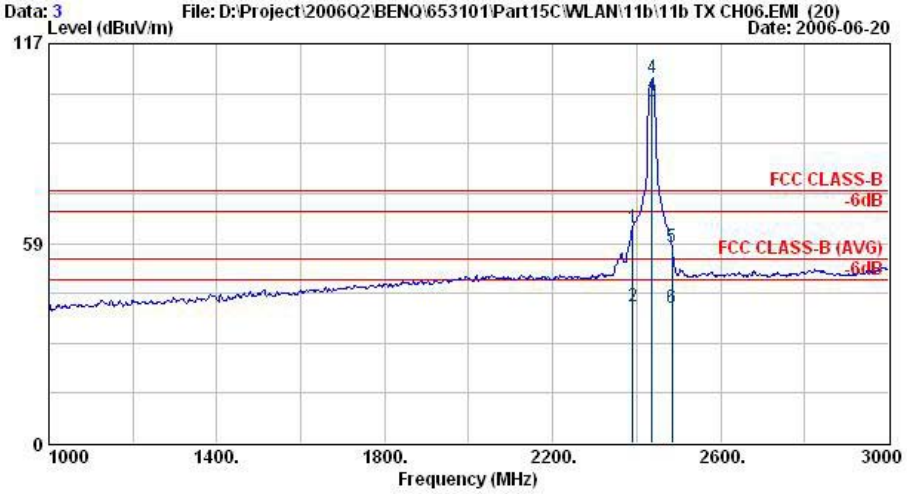
Site : 03CH06-HY
Condition : BI-LOG-2004-1122 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH06;2437MHz
Plane : E2

	Freq	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/m	dB	dB	cm	deg	
1 @	92.64	28.67	-14.83	43.50	46.35	9.47	1.67	28.82	400	0	Peak
2	238.44	25.65	-20.35	46.00	40.92	10.87	2.79	28.93	400	0	Peak
3 @	287.58	32.17	-13.83	46.00	45.04	12.93	3.11	28.92	400	0	Peak



Site : 03CH06-HY
Condition : BI-LOG-2004-1122 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH06;2437MHz
Plane : E2

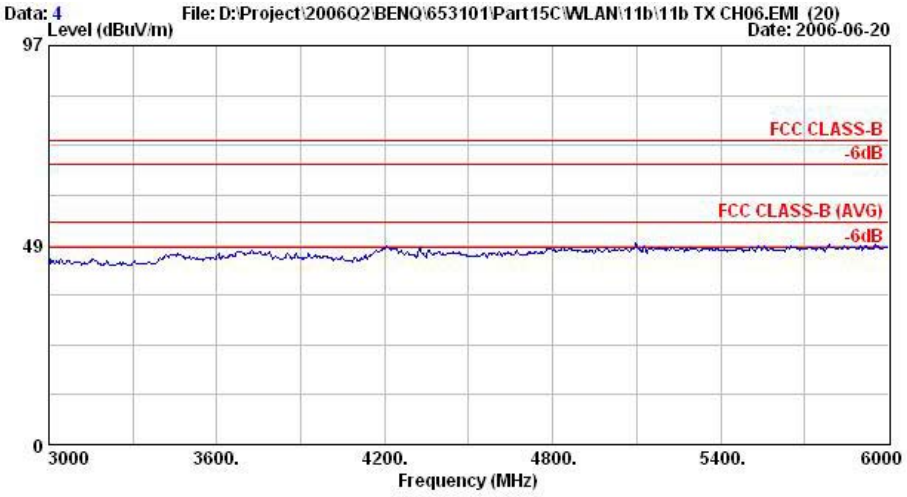
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	934.90	32.96	-13.04	46.00	34.81	21.00	5.97	28.82	100	0	Peak
2 @	959.40	33.00	-13.00	46.00	34.08	21.73	6.05	28.87	113	98	Peak
3	983.90	34.80	-19.20	54.00	35.10	22.47	6.05	28.82	100	0	Peak



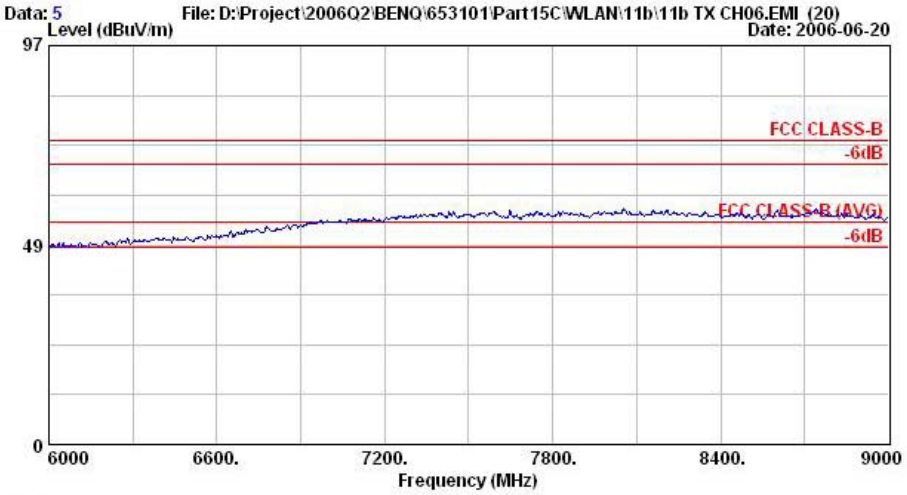
Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH06;2437MHz
Plane : E2

	Freq	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/m	dB	dB	cm	deg	
1 @	2390.00	62.85	-11.15	74.00	63.79	30.26	4.26	35.46	199	0	Peak
2 @	2390.00	39.87	-14.13	54.00	40.81	30.26	4.26	35.46	100	333	Average
3 @	2437.00	100.10			101.00	30.28	4.29	35.47	100	333	Average
4 @	2437.00	106.81			107.71	30.28	4.29	35.47	199	0	Peak
5	2483.50	57.48	-16.52	74.00	58.34	30.29	4.36	35.51	199	0	Peak
6 @	2483.50	39.46	-14.54	54.00	40.32	30.29	4.36	35.51	100	333	Average

Remark: #3 and #4 Fundamental Signal



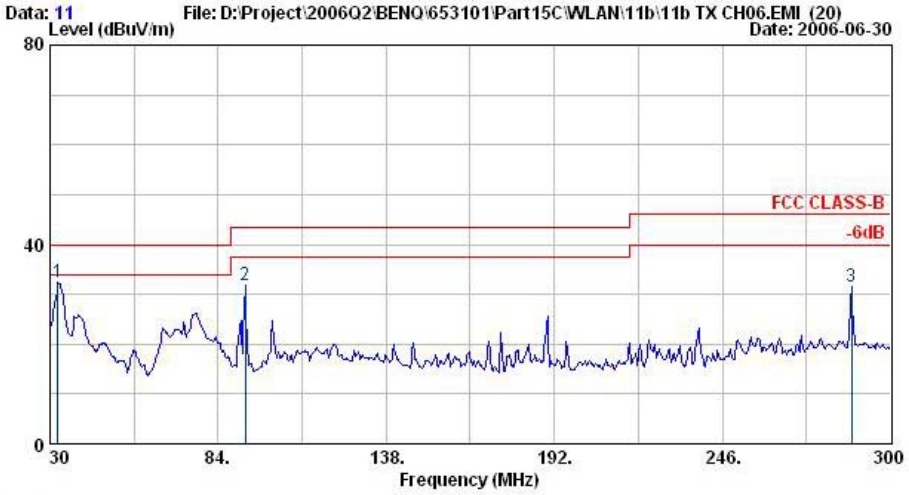
Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH06;2437MHz
Plane : E2



Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH06;2437MHz
Plane : E2

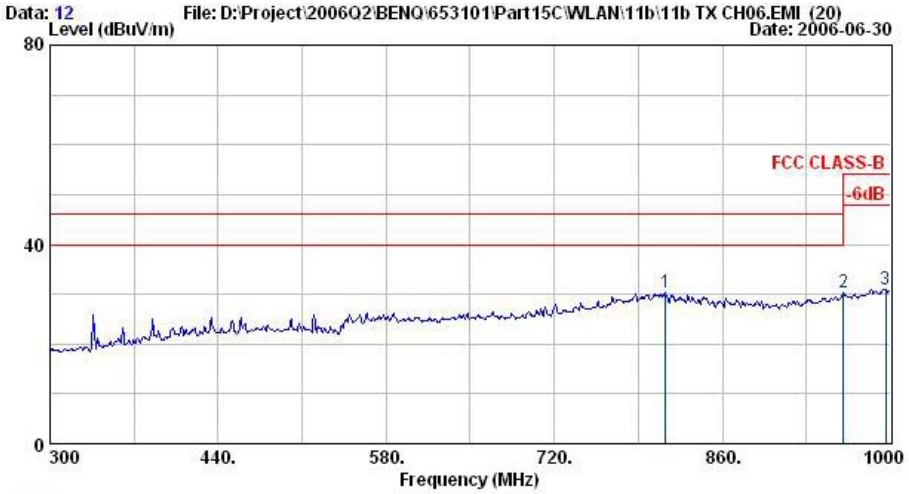
- Polarization : Vertical

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



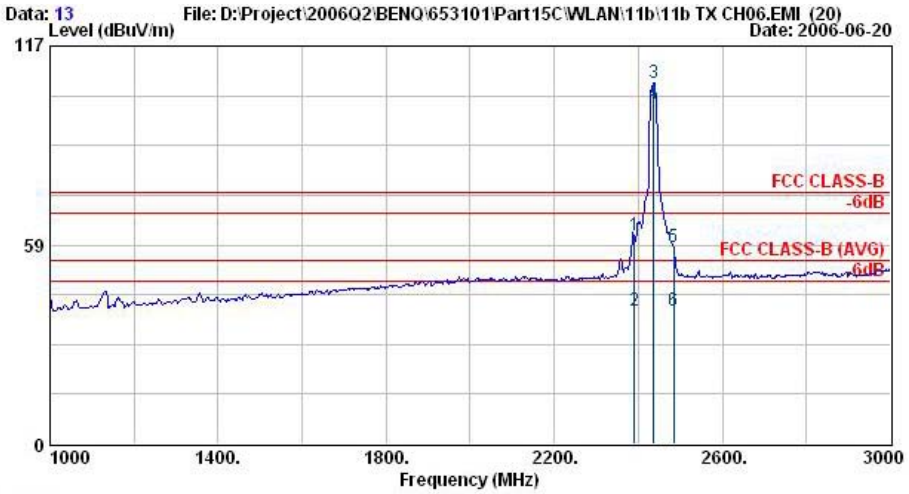
Site : 03CH06-HY
Condition : BI-LOG-2004-1122 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH06;2437MHz
Plane : E2

	Freq	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/m	dB	dB	cm	deg	
1 @	32.43	32.36	-7.64	40.00	42.25	17.73	1.01	28.63	156	221	Peak
2 @	92.64	31.77	-11.73	43.50	49.45	9.47	1.67	28.82	400	0	Peak
3 @	287.58	31.59	-14.41	46.00	44.46	12.93	3.11	28.92	400	0	Peak



Site : 03CH06-HY
Condition : BI-LOG-2004-1122 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH06;2437MHz
Plane : E2

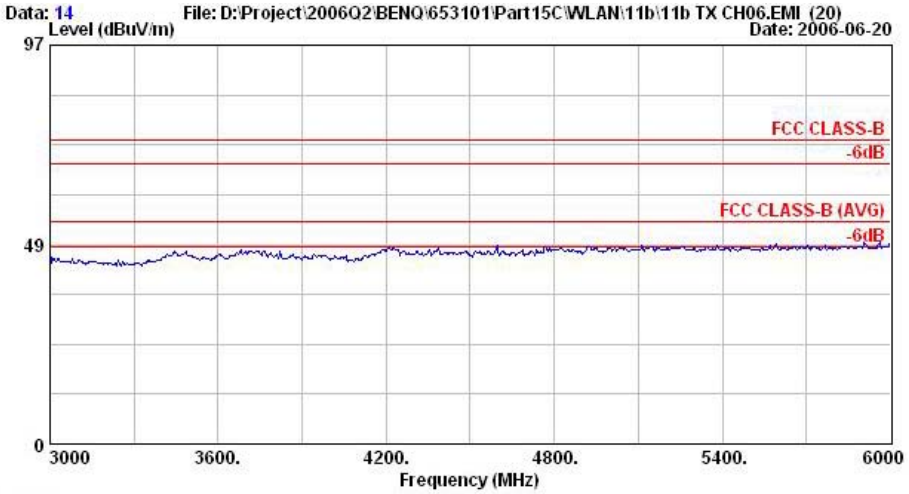
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	812.40	30.22	-15.78	46.00	31.94	21.65	5.57	28.94	100	0	Peak
2	960.80	30.34	-23.66	54.00	31.38	21.79	6.03	28.86	100	0	Peak
3	995.80	31.07	-22.93	54.00	30.81	22.85	6.20	28.79	100	0	Peak



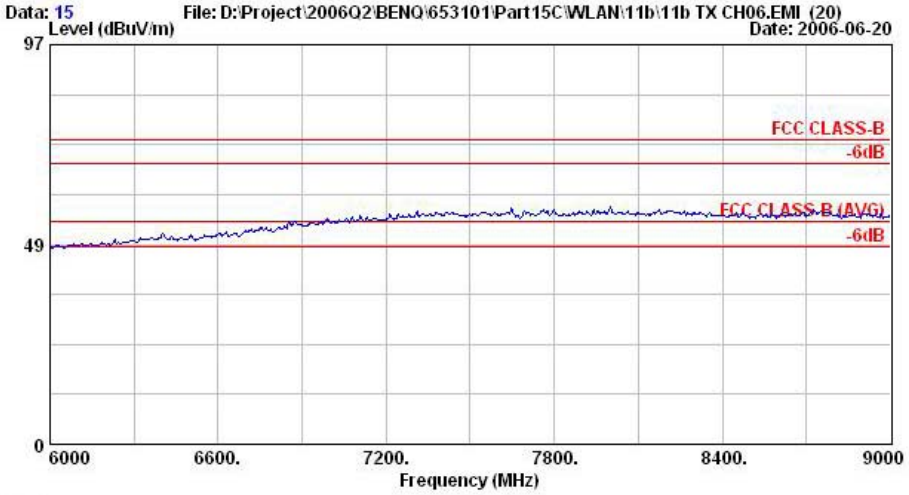
Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH06;2437MHz
Plane : E2

	Freq	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/m	dB	dB	cm	deg	
1 @	2390.00	61.40	-12.60	74.00	62.33	30.26	4.26	35.46	200	360	Peak
2	2390.00	39.17	-34.83	74.00	40.11	30.26	4.26	35.46	111	18	Average
3 @	2437.00	106.25			107.15	30.27	4.29	35.47	200	360	Peak
4 @	2437.00	100.00			100.90	30.28	4.29	35.47	111	18	Average
5	2483.50	58.04	-15.96	74.00	58.90	30.29	4.36	35.51	200	360	Peak
6	2483.50	39.28	-34.72	74.00	40.14	30.29	4.36	35.51	111	18	Average

Remark: #3 and #4 Fundamental Signal



Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH06;2437MHz
Plane : E2

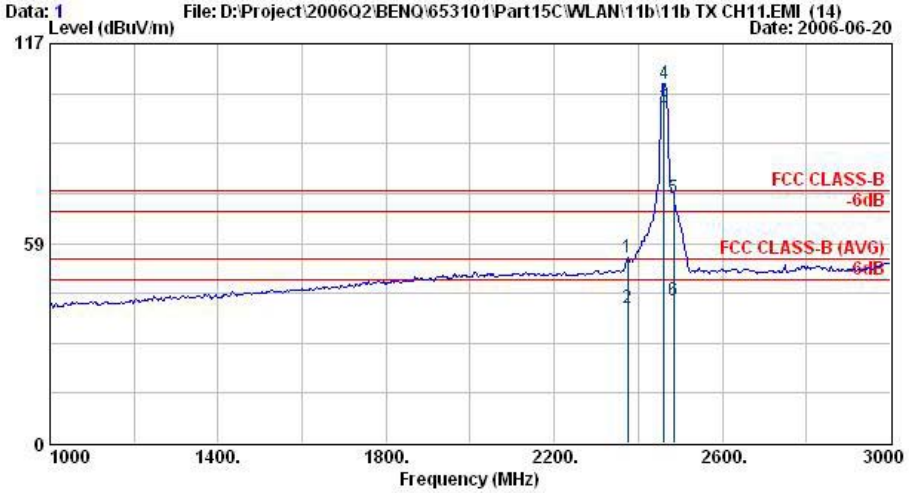


Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH06;2437MHz
Plane : E2

Remark: There is no more obvious spurious emission except the listings above.

- Test Mode : Mode 3
- Polarization : Horizontal

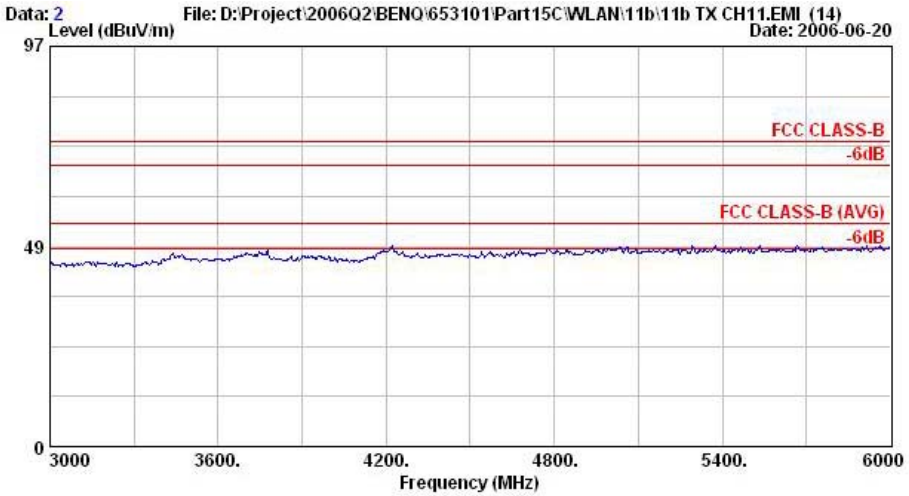
■ The test that passed at minimum margin was marked by the frame in the following table.



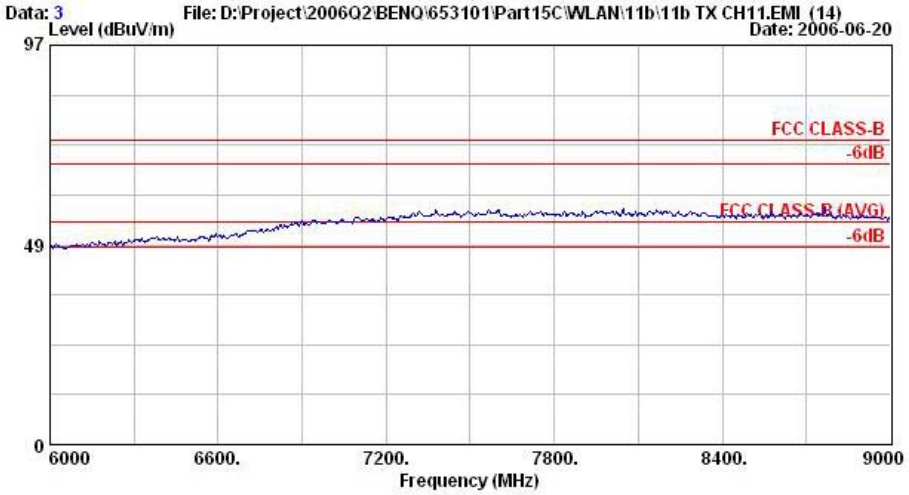
Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH11;2462MHz
Plane : E2

	Freq	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/m	dB	dB	cm	deg	
1	2374.00	54.58	-19.42	74.00	55.53	30.25	4.23	35.44	100	0	Peak
2 @	2374.00	39.73	-14.27	54.00	40.69	30.25	4.23	35.44	100	339	Average
3 @	2462.00	98.41			99.29	30.29	4.33	35.49	100	339	Average
4 @	2462.00	105.40			106.28	30.29	4.33	35.49	100	0	Peak
5 @	2483.50	71.86	-2.14	74.00	72.72	30.29	4.36	35.51	100	0	Peak
6 @	2483.50	41.76	-12.24	54.00	42.62	30.29	4.36	35.51	100	339	Average

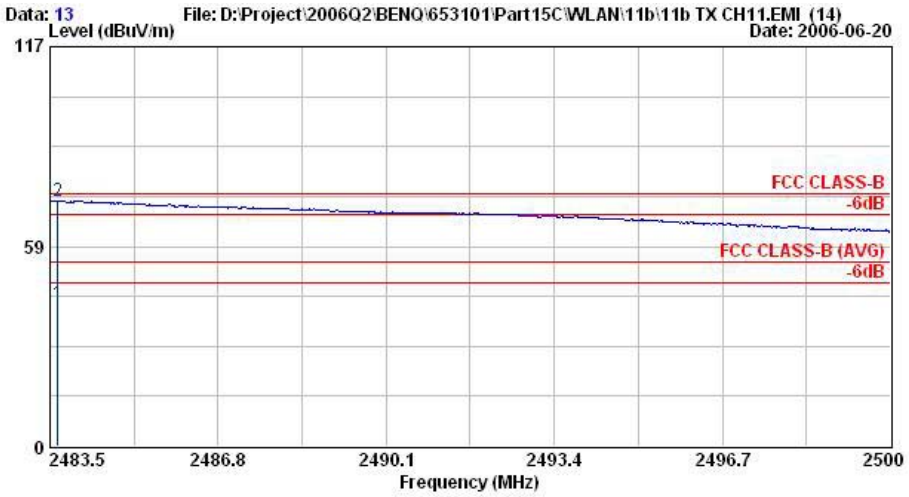
Remark: #3 and #4 Fundamental Signal



Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH11;2462MHz
Plane : E2



Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH11;2462MHz
Plane : E2

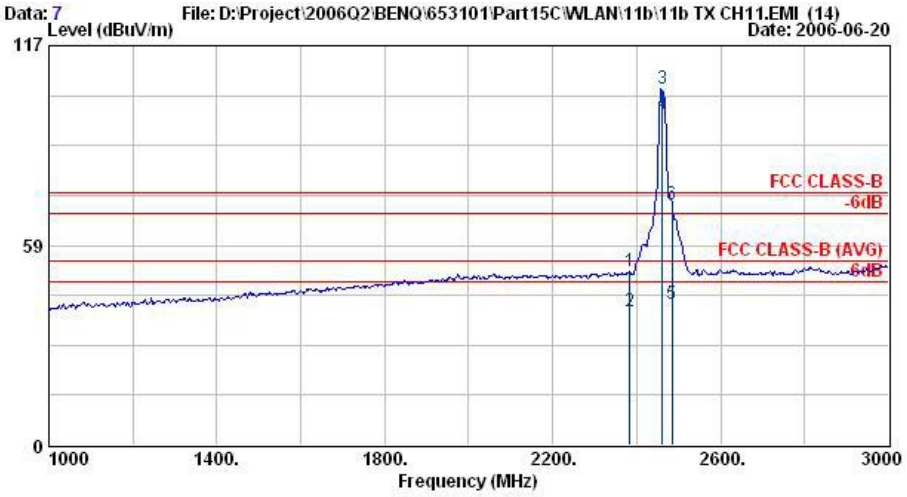


Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH11;2462MHz
Plane : E2

	Freq	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/m	dB	dB	cm	deg	
1 @	2483.65	41.76	-12.24	54.00	42.62	30.29	4.36	35.51	100	338	Average
2 @	2483.65	71.86	-2.14	74.00	72.72	30.29	4.36	35.51	100	0	Peak

- Polarization : Vertical

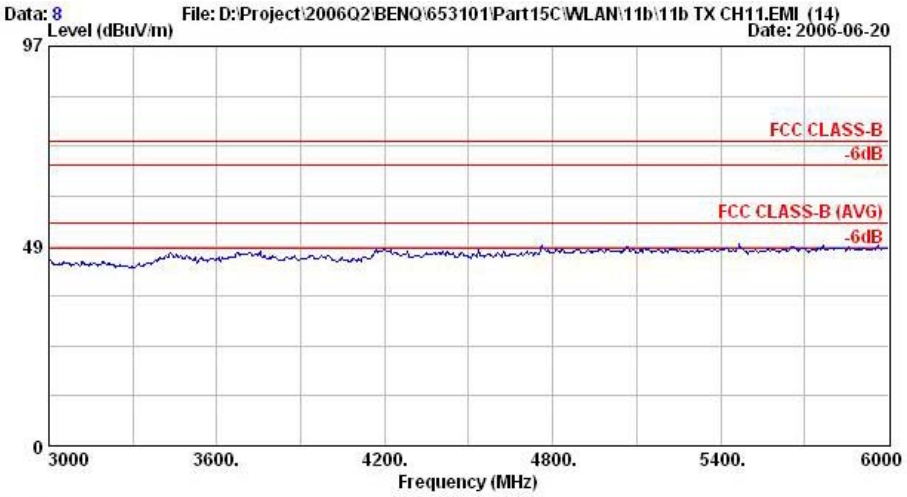
■ The test that passed at minimum margin was marked by the frame in the following table.



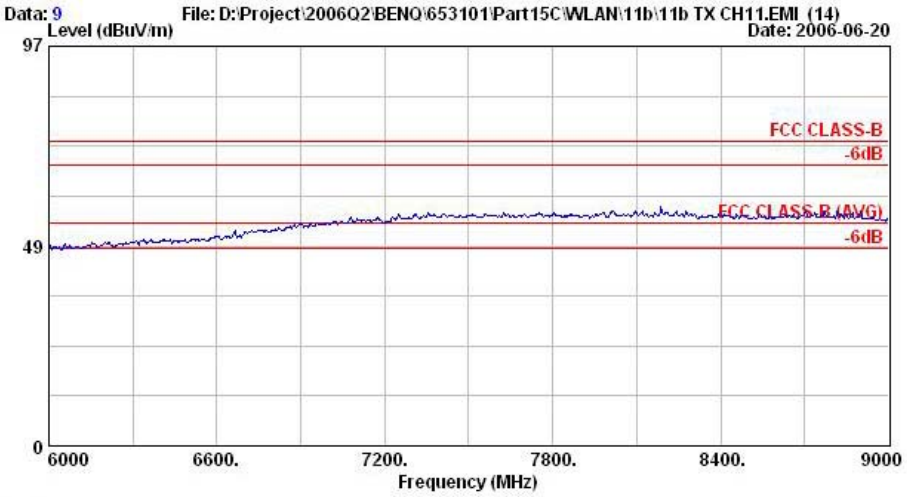
Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH11;2462MHz
Plane : E2

	Freq	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/m	dB	dB	cm	deg	
1	2384.00	50.84	-23.16	74.00	51.79	30.25	4.23	35.44	100	0	Peak
2 @	2384.00	39.12	-14.88	54.00	40.08	30.25	4.23	35.44	100	266	Average
3 @	2462.00	104.20			105.08	30.29	4.33	35.49	100	0	Peak
4 @	2462.00	97.14			98.02	30.29	4.33	35.49	100	266	Average
5 @	2483.50	41.15	-12.85	54.00	42.01	30.29	4.36	35.51	100	266	Average
6 @	2483.50	70.66	-3.34	74.00	71.52	30.29	4.36	35.51	100	0	Peak

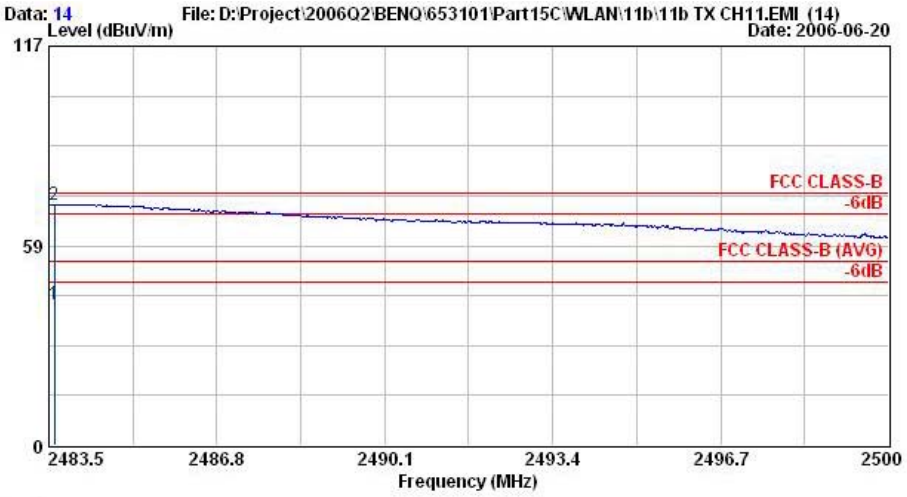
Remark: #3 and #4 Fundamental Signal



Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH11;2462MHz
Plane : E2



Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH11;2462MHz
Plane : E2



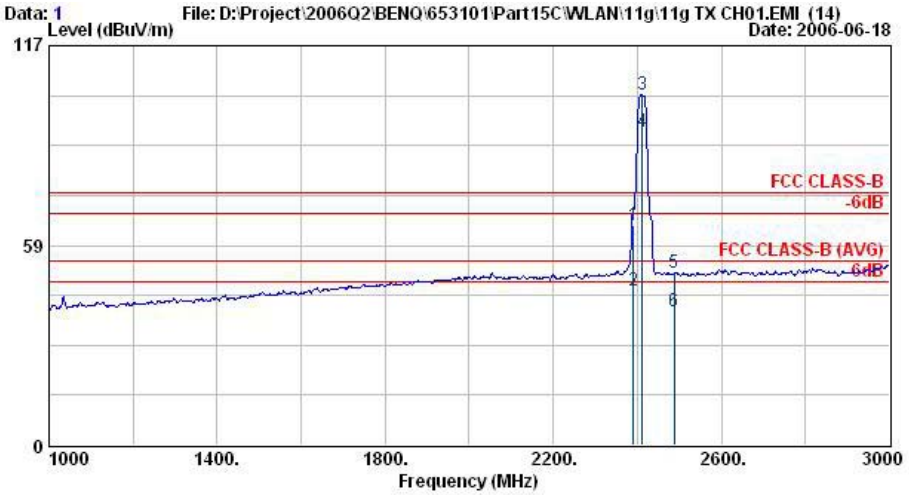
Site : 03CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11b TX CH11;2462MHz
Plane : E2

	Freq	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/m	dB	dB	cm	deg	
1 @	2483.62	41.15	-12.85	54.00	42.01	30.29	4.36	35.51	100	266	Average
2 @	2483.62	70.66	-3.34	74.00	71.52	30.29	4.36	35.51	100	0	Peak

Remark: There is no more obvious spurious emission except the listings above.

- Test Mode : Mode 4
- Polarization : Horizontal

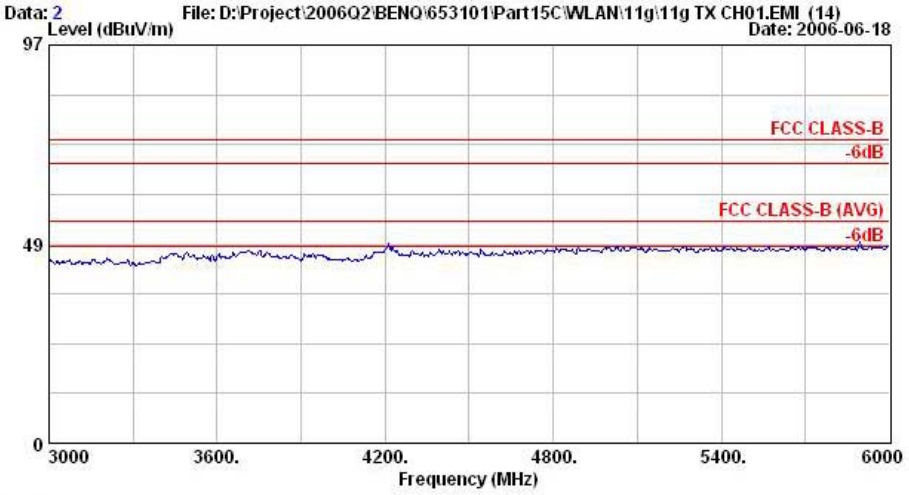
■ The test that passed at minimum margin was marked by the frame in the following table.



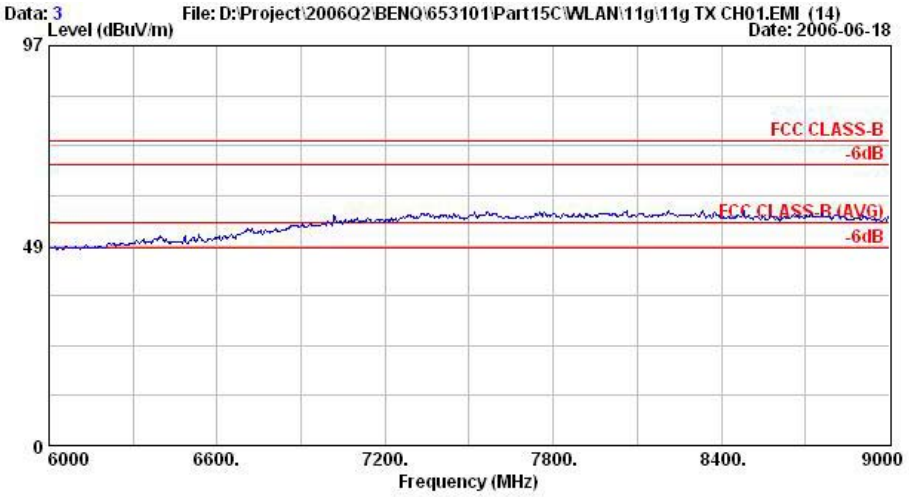
Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11g TX CH01;2412MHz
Plane : E2

	Freq	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/m	dB	dB	cm	deg	
1	2390.00	64.28	-9.72	74.00	65.22	30.26	4.26	35.46	100	0	Peak
2	2390.00	45.03	-8.97	54.00	45.97	30.26	4.26	35.46	100	335	Average
3 X	2412.00	102.63			103.56	30.27	4.26	35.46	100	0	Peak
4 @	2412.00	91.94			92.87	30.27	4.26	35.46	100	335	Average
5	2488.00	50.39	-23.61	74.00	51.25	30.30	4.36	35.51	100	0	Peak
6	2488.00	39.17	-14.83	54.00	40.02	30.30	4.36	35.51	100	335	Average

Remark: #3 and #4 Fundamental Signal



Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11g TX CH01;2412MHz
Plane : E2



Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
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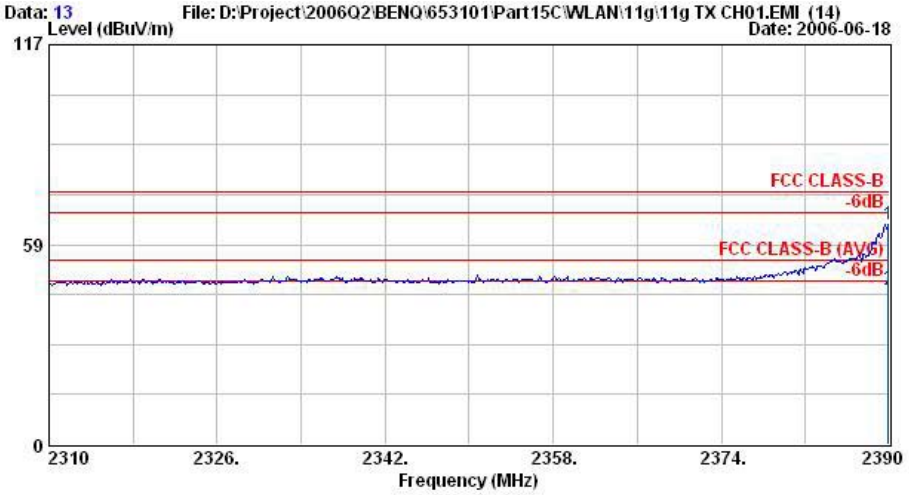
Power : 120Vac/60Hz
Model : FR653101
Memo : 11g TX CH01;2412MHz
Plane : E2



Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : GSM850/900/1800/1900 Mobile Phone
: (802.11b and Bluetooth and GPS)
Power : 120Vac/60Hz
Model : FR653101
Memo : 11g TX CH01;2412MHz
Plane : E2

	Freq	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/m	dB	dB	cm	deg	
1	2389.92	64.28	-9.72	74.00	65.21	30.26	4.26	35.46	100	0	Peak
2	2389.92	45.03	-8.97	54.00	45.97	30.26	4.26	35.46	100	335	Average