



FCC Test Report

According to

47 CFR Part 15 Subpart C

Equipment : ZTE C79 CDMA1X Digital Mobile Phone

Trade Name : ZTE

Model No. : ZTE C79

FCC ID : Q78-ZTEC79

Filing Type : Certification

Applicant : ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

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- The data shown in this test report were carried out on Jan. 24, 2008 at **Sporton International Inc. LAB.**
- Report No.: FR810601, Report Version: Rev.01

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1. General Description of Equipment under Test

1.1 Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.2 Manufacturer

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.3 Basic Description of Equipment under Test

Equipment		ZTE C79 CDMA1X Digital Mobile Phone
Trade Name		ZTE
Model Name		ZTE C79
FCC ID		Q78-ZTEC79
AC Adapter	Brand Name	Shenzhen Ruide Electronic Industrial Co.,Ltd
	Model Name	STC-A22O50U8
	Power Rating	I/P:100-240Vac, 50-60Hz, 200mA; O/P: 5Vdc, 650mA
	AC Power Cord Type	1.9 meter shielded cable without ferrite core
Battery	Brand Name	BYD Company Limited
	Model Name	Li3710T42P3h553457
	Power Rating	3.7Vdc, 1000mA
	Type	Li-ion
Earphone	Brand Name	Full-Sound(Dongguan) Electrical Products Ltd
	Model Name	FS07-0026-1-A0//EE-564A-25EN
	Signal Line Type	1.5 meter non-shielded cable without ferrite core

Remark: Above EUT's information was declared by manufacturer. Please refer to the specifications of manufacturer or User's Manual for more detailed features description.

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. The data rate, 1Mbps, was chosen to being tested, due to the highest RF output power.

Channel	Frequency	Data Rate / Modulation		
		GFSK	/4-DQPSK	8-DPSK
		1Mbps	2Mbps	3Mbps
Ch00	2400MHz	2.78 dBm	-0.92 dBm	-0.48 dBm
Ch39	2441MHz	0.53 dBm	-3.25 dBm	-2.83 dBm
Ch78	2480MHz	0.23 dBm	-3.52 dBm	-3.13 dBm

Bluetooth uses frequency hopping spread spectrum (FHSS) operation which also facilitates Bluetooth multiple access and coexistence among other types of wireless systems. The basic frequency-hopping pattern is a pseudo-random ordering of 79 channel frequencies in the ISM band and the hopping rate is nominally 1600 hops per second. The EDR modulation format uses one of two types of DPSK (Pi/4-DQPSK or 8-DPSK) in the payload section of the packet. As shown in figure, the EDR packet begins using GFSK modulation during the access code and header portions of the packet but changes to DPSK modulation after the guard time. Changing to a DPSK format allows increased data rates of 2 Mb/s or 3 Mb/s.

- 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

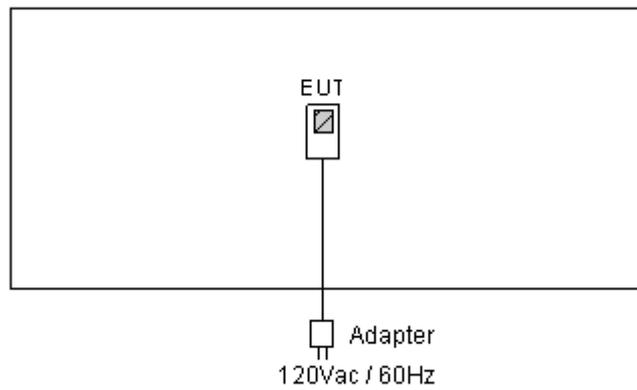
Application			
Radiated	BT Tx	BT Tx(EDR 2Mbps)	BT Tx(EDR 3Mbps)
Emission / RF	Mode 1: CH00_2402 MHz	Mode 4: CH00_2402 MHz	Mode 5: CH00_2402 MHz
	Mode 2: CH39_2441 MHz		
Conducted	Mode 3: CH78_2480 MHz		
Conducted Emission	Mode 1: CDMA2000 Cellular Idle Mode + BT Idle + Camera + Adapter		
	Mode 2: CDMA2000 Cellular Idle Mode + BT Idle + Camera + USB Link		
	Mode 3: CDMA2000 AWS Idle Mode + BT Idle + Camera + Adapter		
	Mode 4: CDMA2000 PCS Idle Mode + BT Idle + Camera + Adapter		

2.3 Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable / Power Cord
1.	BT Base Station	Anritus	8882B	N/A	Unshielded, 1.8 m

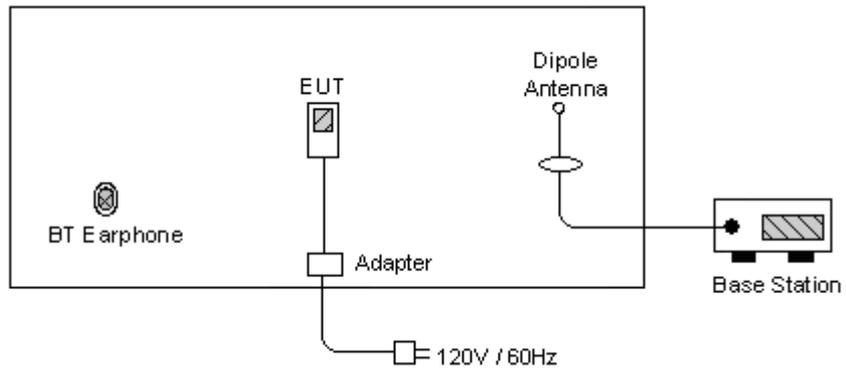
2.4 Connection Diagram of Test System

<Radiated Emission>

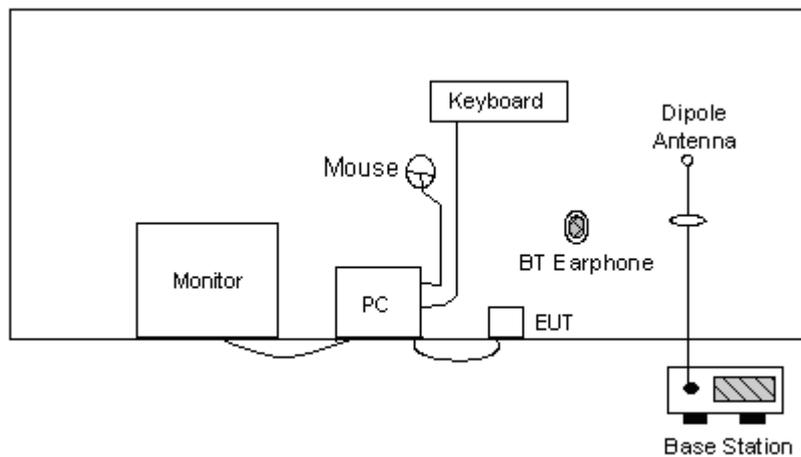


<Conducted Emission>

Phone with Adapter Mode



Phone with USB Link Mode





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. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.
TEL : 86-0512- 5790-0158
FAX : 86-0512- 5790-0958
Test Site No : CO01-KS, 03CH01-KS

4.1 Test Voltage

AC 120V / 60Hz

4.2 Standard for Methods of Measurement

ANSI C63.4-2003

4.3 Test Compliance

47 CFR Part 15 Subpart C

4.4 Frequency Range

- 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: Bluetooth

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



5.2 Band Edges 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 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.

5.2.3 Test Result

- Application Type : Bluetooth
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Enginner : Alex

- Test Result in BT lower band : PASS
- Test Result in BT higher band : PASS
- Test Result in BT EDR(2Mbps) lower band : PASS
- Test Result in BT EDR(2Mbps) higher band : PASS
- Test Result in BT EDR(3Mbps) lower band : PASS
- Test Result in BT EDR(3Mbps) higher band : PASS

5.2.4 Note on Band Edge Emission

> BT(1Mbps)

CH00 (Horizontal)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390.00	42.65	-31.35	74.00	42.65	31.93	3.25	35.18	-	-	Peak
2390.00	36.18	-17.82	54.00	36.18	31.93	3.25	35.18	100	15	Average

CH00 (Vertical)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390.00	41.47	-32.53	74.00	41.47	31.93	3.25	35.18	-	-	Peak
2390.00	35.72	-18.28	54.00	35.72	31.93	3.25	35.18	100	170	Average



➤ BT EDR(2Mbps)

CH00 (Horizontal)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390.00	41.97	-32.03	74.00	41.97	31.93	3.25	35.18	-	-	Peak
2390.00	35.76	-18.24	54.00	35.76	31.93	3.25	35.18	100	150	Average

CH00(Vertical)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390.00	40.53	-33.47	74.00	40.53	31.93	3.25	35.18	-	-	Peak
2390.00	35.60	-18.40	54.00	35.60	31.93	3.25	35.18	100	127	Average

➤ BT EDR(3Mbps)

CH00 (Horizontal)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390.00	42.74	-31.26	74.00	42.74	31.93	3.25	35.18	-	-	Peak
2390.00	35.68	-18.32	54.00	35.68	31.93	3.25	35.18	100	6	Average

CH00 (Vertical)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390.00	41.20	-32.80	74.00	41.20	31.93	3.25	35.18	-	-	Peak
2390.00	35.19	-18.81	54.00	35.19	31.93	3.25	35.18	100	117	Average

CH78 (Horizontal)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.50	59.28	-14.72	74.00	58.95	32.24	3.29	35.20	-	-	Peak
2483.50	39.07	-14.93	54.00	38.74	32.24	3.29	35.20	100	142	Average

CH78 (Vertical)

Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.50	58.50	-15.50	74.00	58.17	32.24	3.29	35.20	-	-	Peak
2483.50	38.84	-15.16	54.00	38.51	32.24	3.29	35.20	100	119	Average



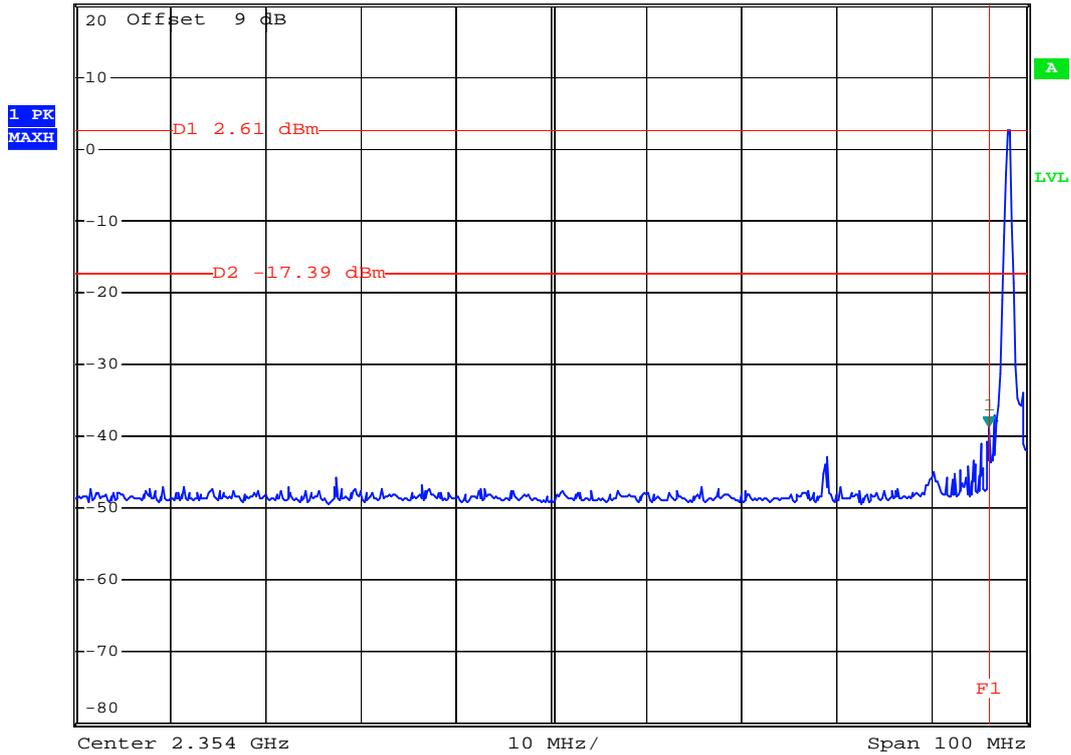
5.2.5 20dB Band Edge

BT

CH00



Ref 20 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -38.68 dBm
*SWT 500 ms 2.400000000 GHz



Date: 23.JAN.2008 11:44:58



CH78

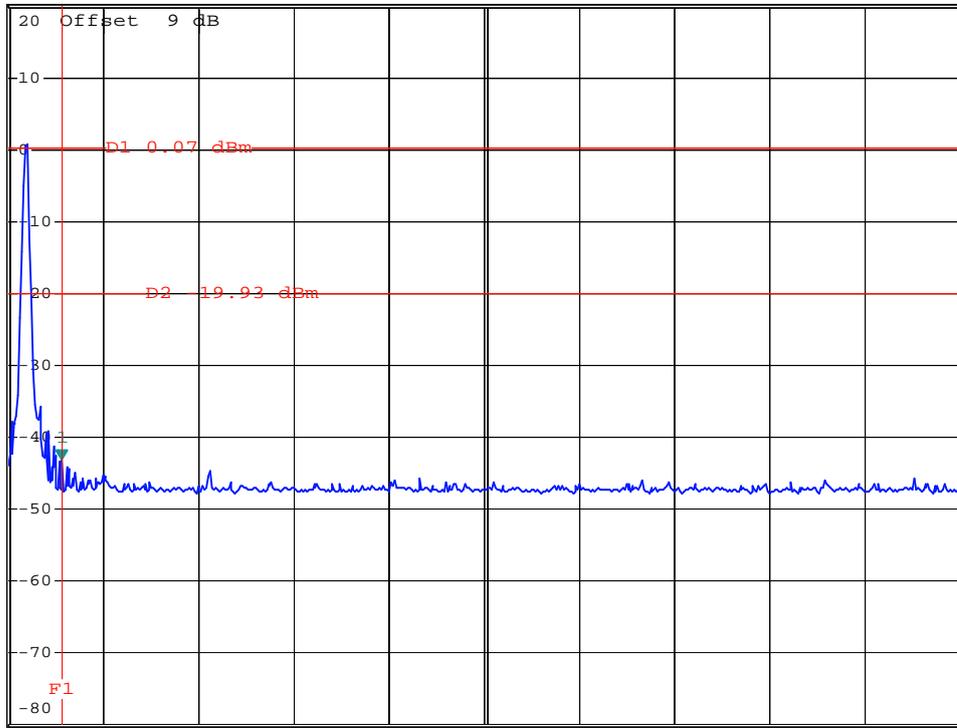


*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -43.25 dBm
*SWT 500 ms 2.483600000 GHz

Ref 20 dBm

*Att 30 dB

1 PK
MAXH



Center 2.528 GHz 10 MHz/ Span 100 MHz

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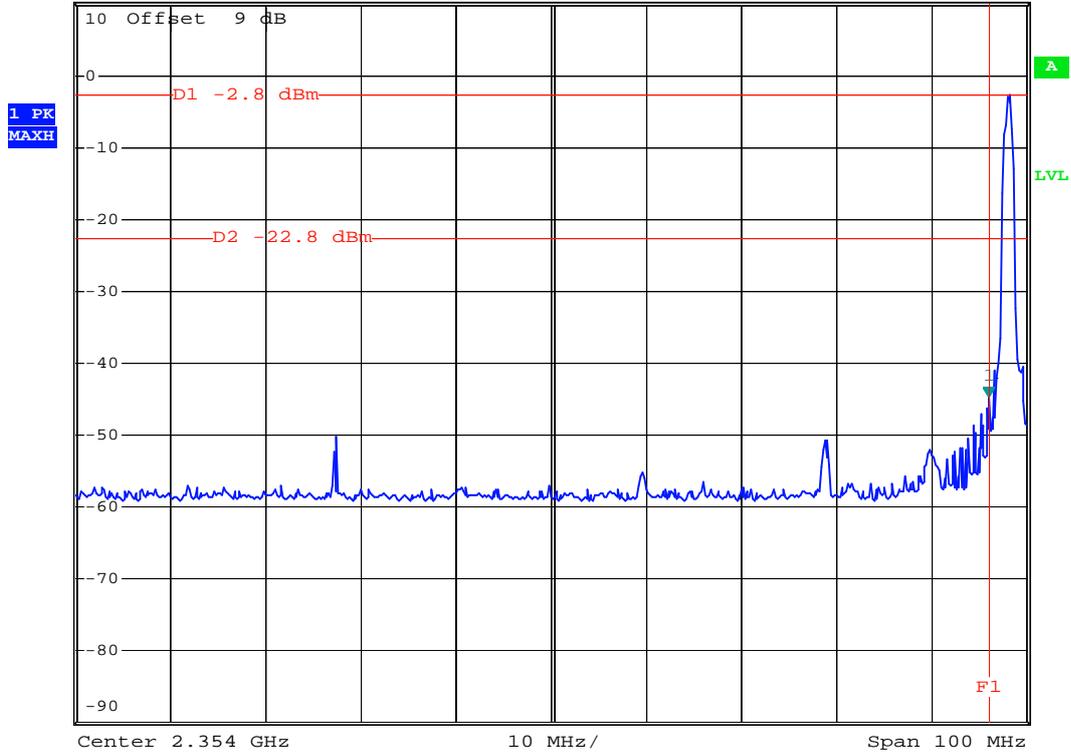


BT EDR(2Mbps)

CH00



Ref 10 dBm *Att 20 dB *RBW 100 kHz Marker 1 [T1]
 *VBW 100 kHz -44.65 dBm
 *SWT 500 ms 2.400000000 GHz



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CH78

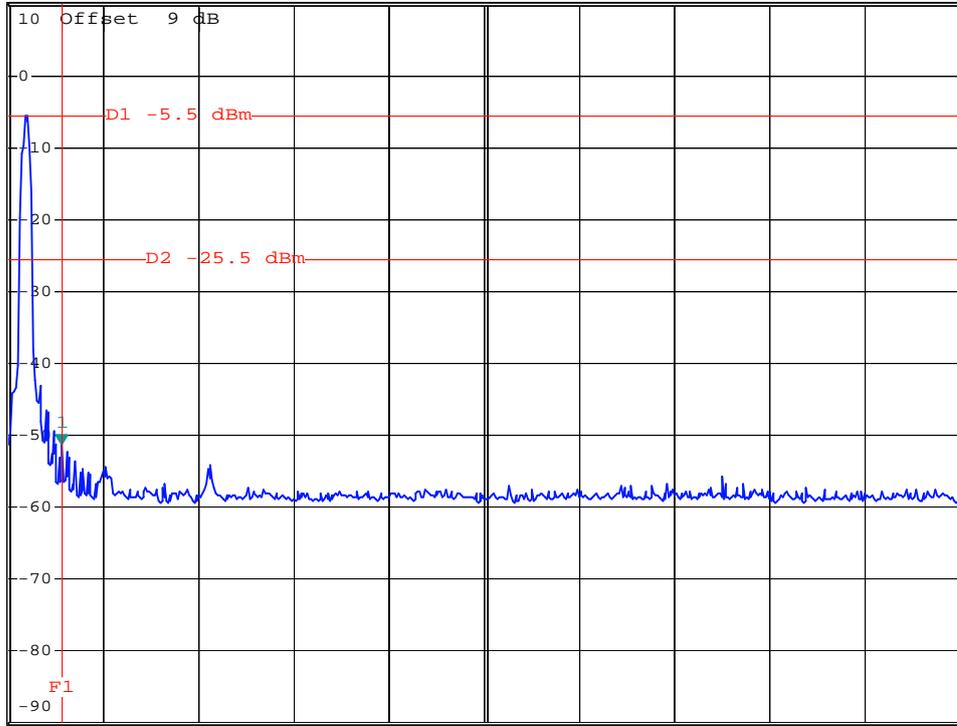


*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -51.30 dBm
*SWT 500 ms 2.483600000 GHz

Ref 10 dBm

*Att 20 dB

1 PK
MAXH



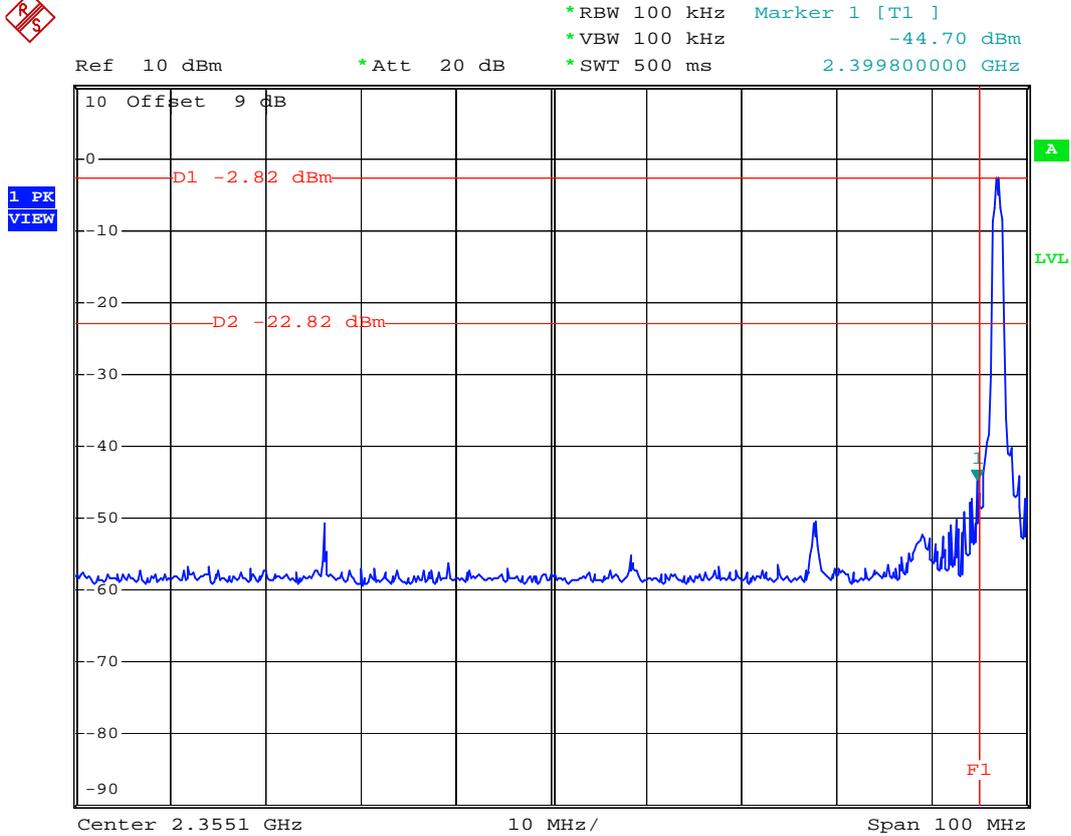
Center 2.528 GHz 10 MHz/ Span 100 MHz

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BT EDR(3Mbps)

CH00



Date: 23.JAN.2008 20:39:40



CH78

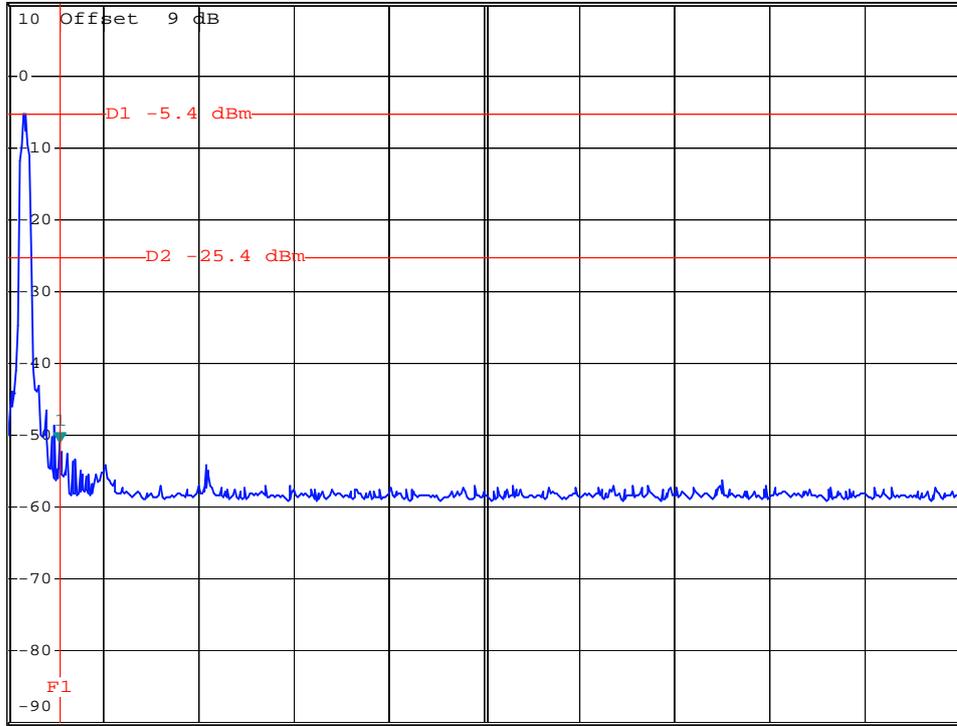


*RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -51.00 dBm
*SWT 500 ms 2.48350000 GHz

Ref 10 dBm

*Att 20 dB

1 PK
MAXH



Center 2.5281 GHz 10 MHz/ Span 100 MHz

Date: 23.JAN.2008 20:54:14

5.3 Hopping Channel Separation

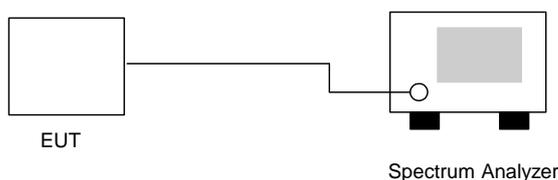
5.3.1 Measuring Instruments

As described in chapter 9 of this test report.

5.3.2 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.

5.3.3 Test Setup Layout



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

- Application Type : BT
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Engineer : Alex

Channel	Frequency (MHz)	Carrier Frequency Separation (MHz)	Limits (MHz)	Plot Ref. No.
00	2402	1.000	0.617	Mode 1
39	2441	1.004	0.616	Mode 2
78	2480	1.004	0.619	Mode 3

Note: Hopping Channel Separation shall be greater 2/3 of 20dB bandwidth. Refer the result of 20dB bandwidth to section 5.7.



- Application Type : BT EDR(2Mbps)
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Enginner : Alex

Channel	Frequency (MHz)	Carrier Frequency Separation (MHz)	Limits (MHz)	Plot Ref. No.
00	2402	1.008	0.832	Mode 4
39	2441	1.008	0.829	Mode 5
78	2480	0.992	0.829	Mode 6

Note: Hopping Channel Separation shall be greater 2/3 of 20dB bandwidth. Refer the result of 20dB bandwidth to section 5.7.

- Application Type : BT EDR(3Mbps)
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Enginner : Alex

Channel	Frequency (MHz)	Carrier Frequency Separation (MHz)	Limits (MHz)	Plot Ref. No.
00	2402	1.000	0.816	Mode 7
39	2441	1.000	0.813	Mode 8
78	2480	1.000	0.813	Mode 9

Note: Hopping Channel Separation shall be greater 2/3 of 20dB bandwidth. Refer the result of 20dB bandwidth to section 5.7.



5.3.5 Hopping Channel Separation

Mode 1

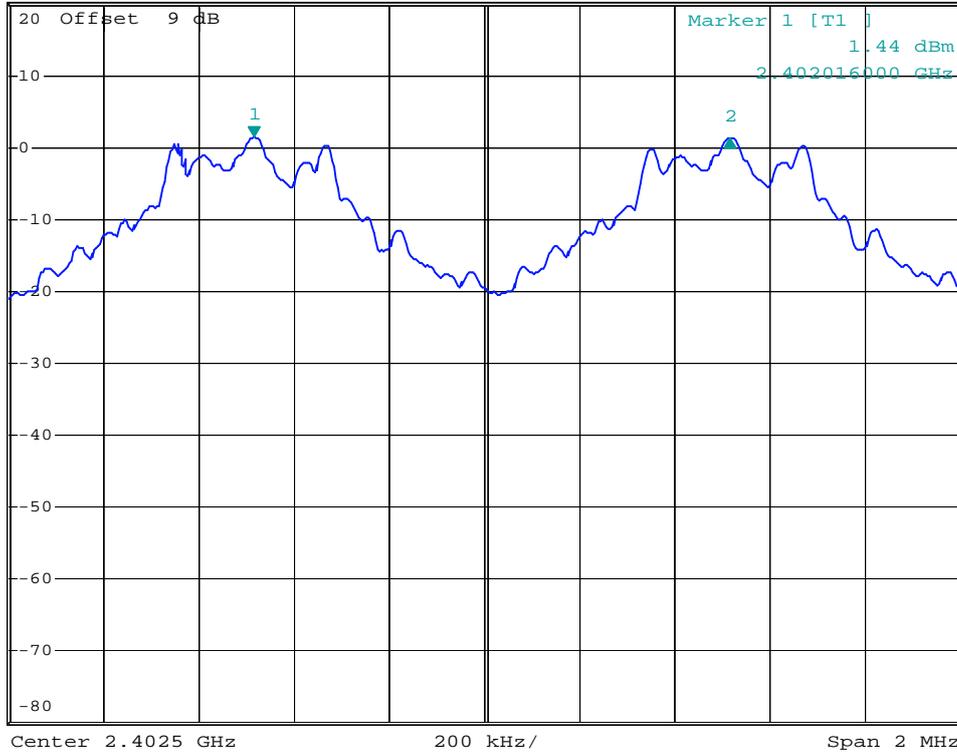


*RBW 30 kHz Delta 2 [T1]
*VBW 100 kHz -0.12 dB
*SWT 500 ms 1.000000000 MHz

Ref 20 dBm

*Att 30 dB

1 PK
MAXH



Date: 23.JAN.2008 19:30:16



Mode 2

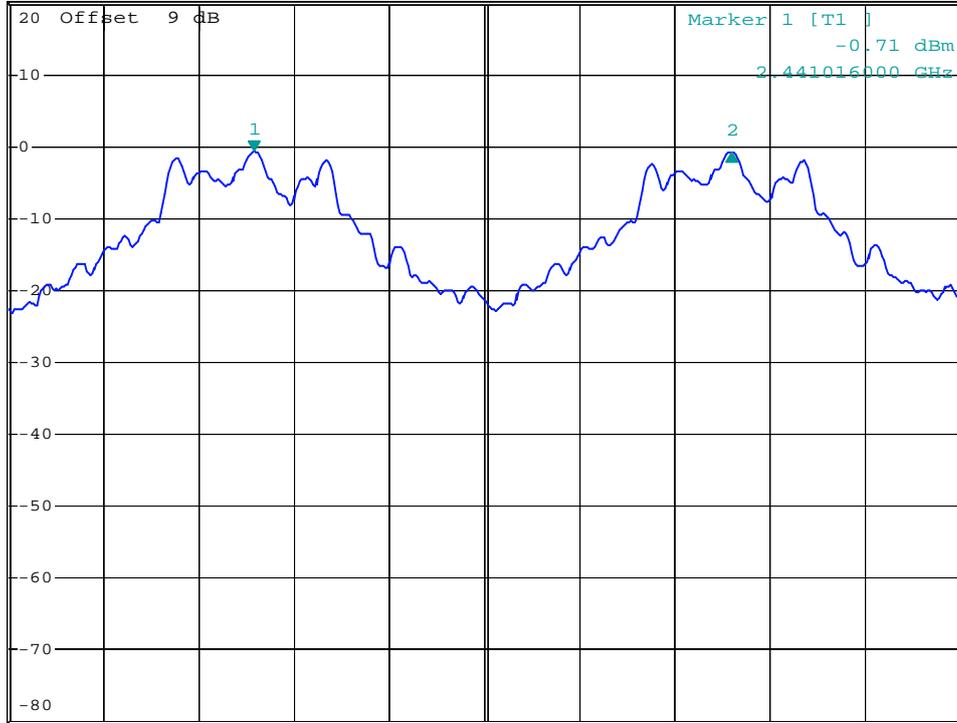


*RBW 30 kHz Delta 2 [T1]
 *VBW 100 kHz -0.05 dB
 *SWT 500 ms 1.004000000 MHz

Ref 20 dBm

*Att 30 dB

1 PK
MAXH



Center 2.4415 GHz

200 kHz/

Span 2 MHz

Date: 23.JAN.2008 19:31:32



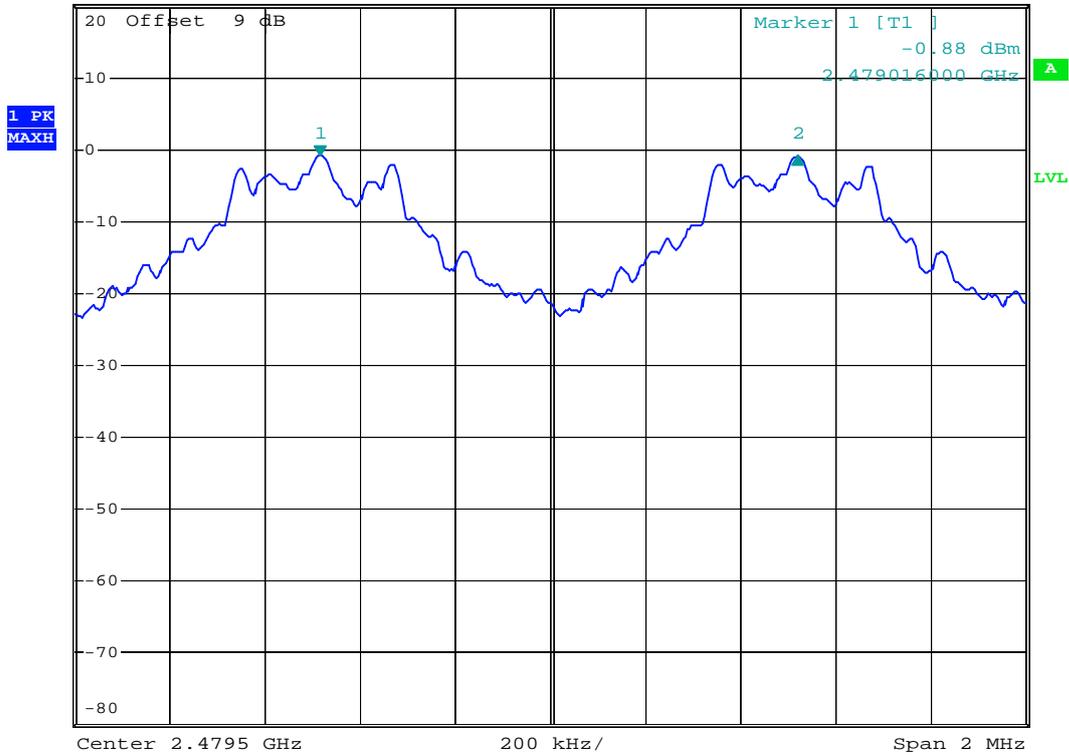
Mode 3



*RBW 30 kHz Delta 2 [T1]
 *VBW 100 kHz -0.09 dB
 *SWT 500 ms 1.004000000 MHz

Ref 20 dBm

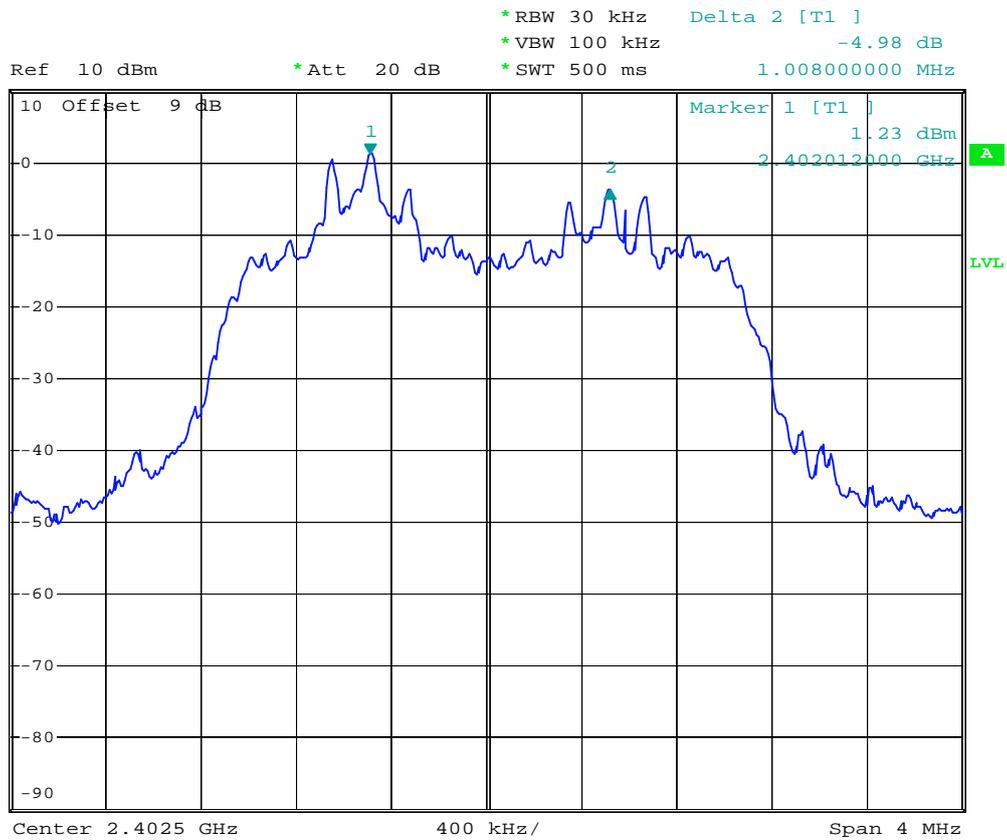
*Att 30 dB



Date: 23.JAN.2008 19:32:42



Mode 4



Date: 23.JAN.2008 20:17:45



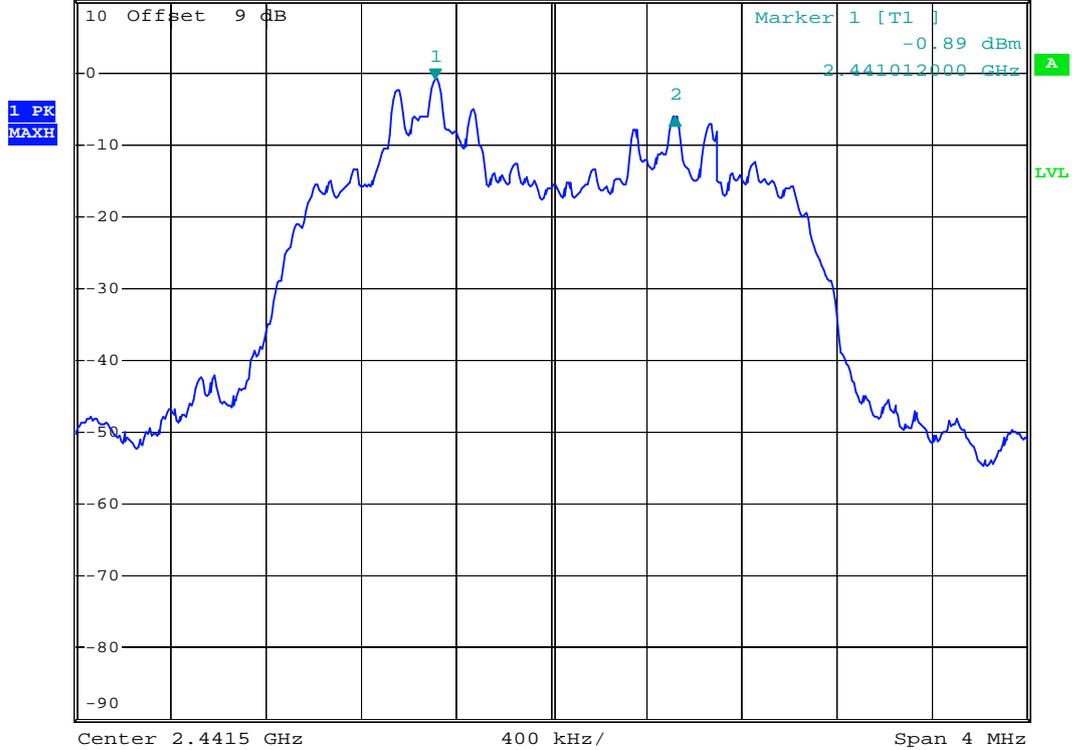
Mode 5



*RBW 30 kHz Delta 2 [T1]
*VBW 100 kHz -5.18 dB
*SWT 500 ms 1.00800000 MHz

Ref 10 dBm

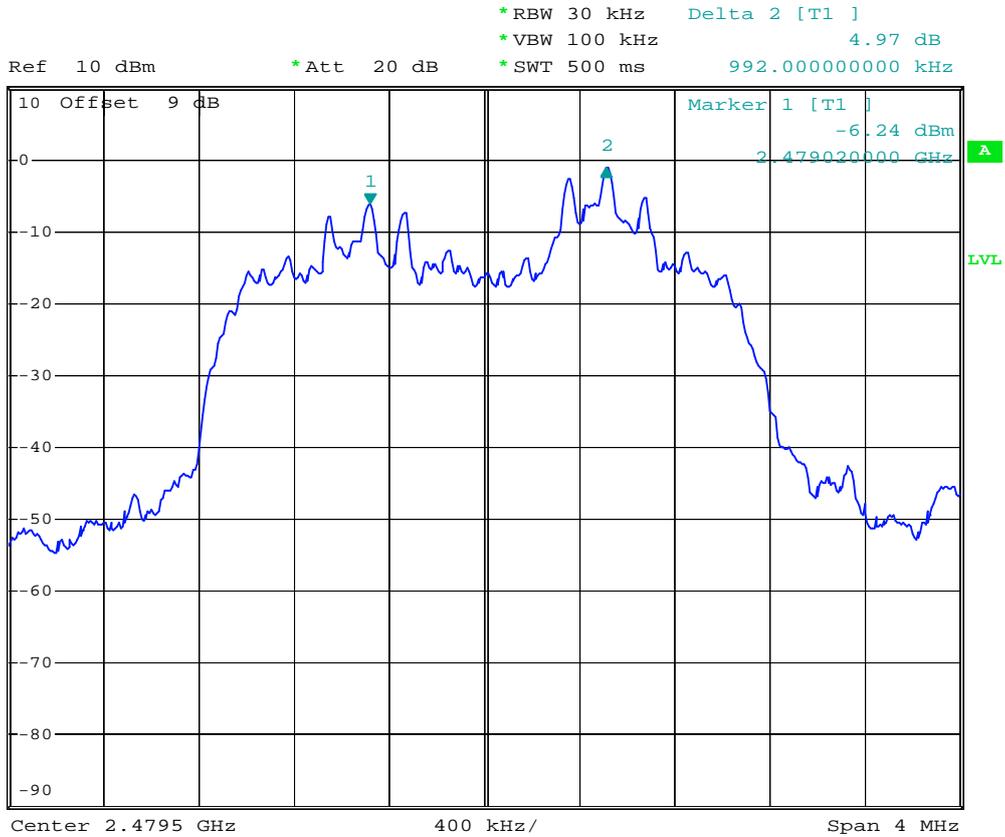
*Att 20 dB



Date: 23.JAN.2008 20:19:02



Mode 6



Date: 23.JAN.2008 20:21:01



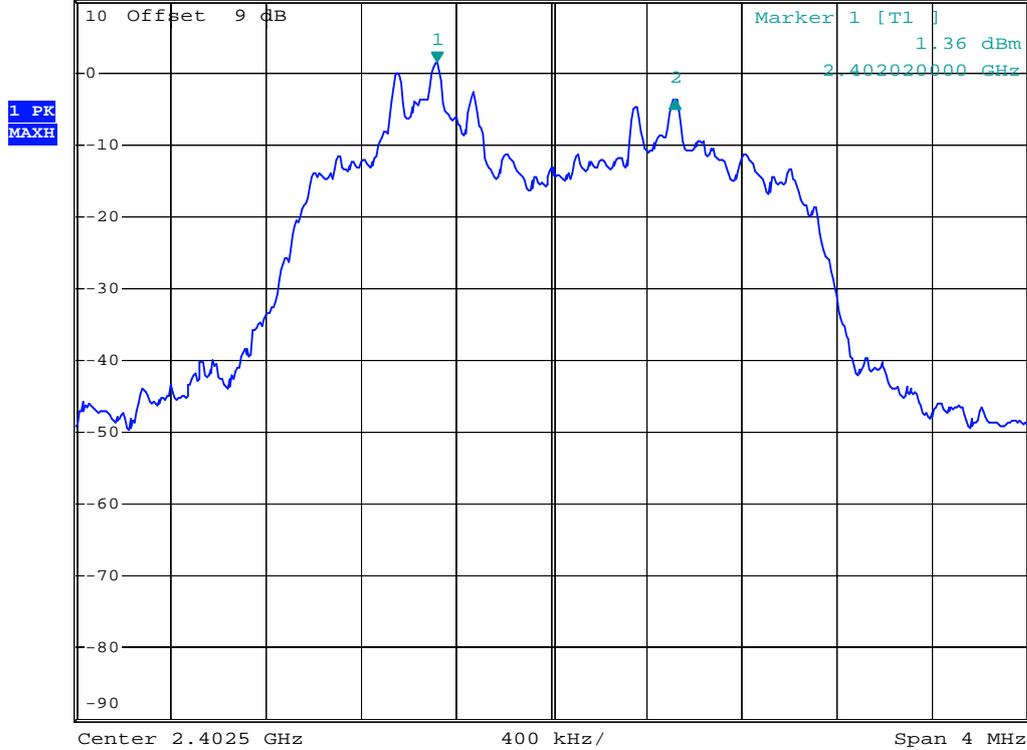
Mode 7



*RBW 30 kHz Delta 2 [T1]
*VBW 100 kHz -5.02 dB
*SWT 500 ms 1.000000000 MHz

Ref 10 dBm

*Att 20 dB



Date: 23.JAN.2008 21:00:22



Mode 8

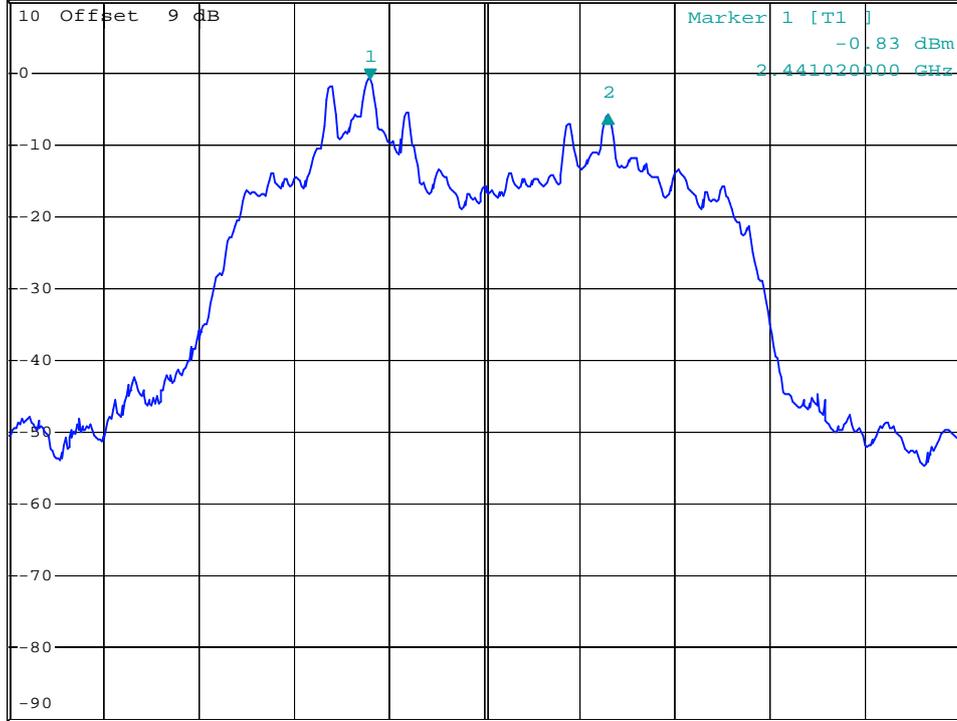


*RBW 30 kHz Delta 2 [T1]
 *VBW 100 kHz -5.16 dB
 *SWT 500 ms 1.000000000 MHz

Ref 10 dBm

*Att 20 dB

1 PK
MAXH



Center 2.4415 GHz

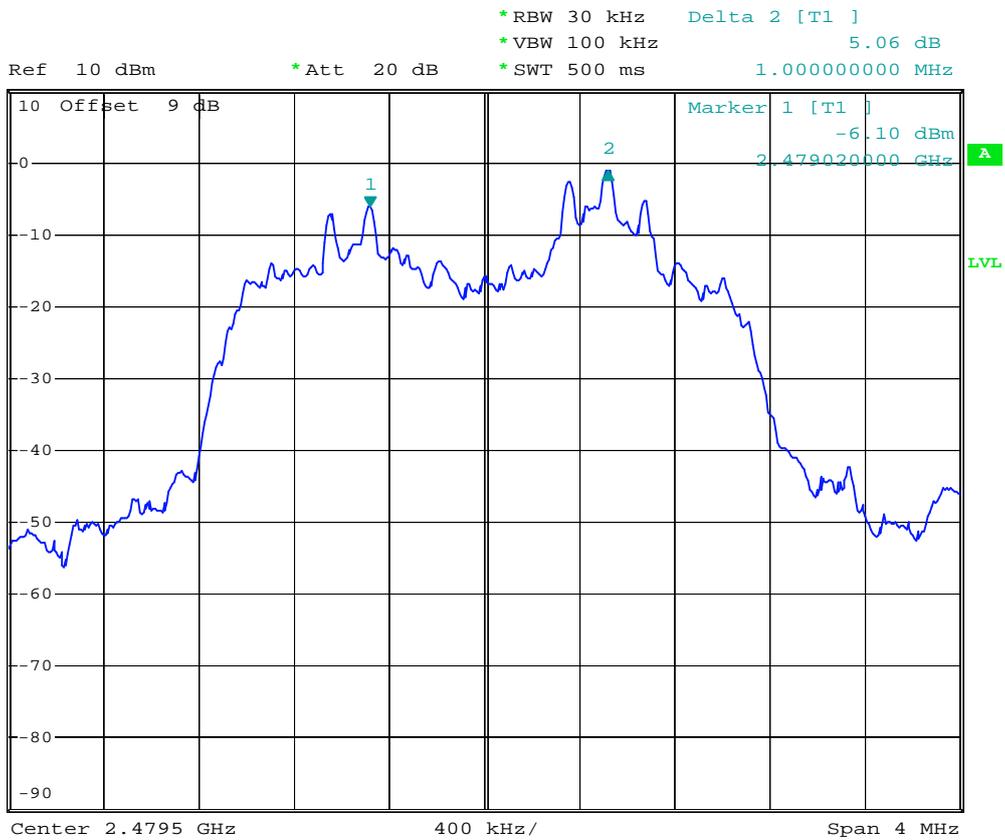
400 kHz/

Span 4 MHz

Date: 23.JAN.2008 21:01:30



Mode 9



Date: 23.JAN.2008 21:02:43

5.4 Number of Hopping Frequency

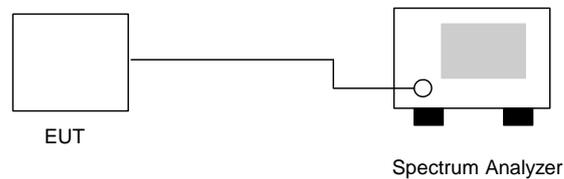
5.4.1 Measuring Instruments

As described in chapter 9 of this test report.

5.4.2 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.

5.4.3 Test Setup Layout





5.4.4 Test Result : See spectrum analyzer plots below

- Application Type : BT
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Engineer : Alex

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

- Application Type : BT EDR(2Mbps)
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Engineer : Alex

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

- Application Type : BT EDR(3Mbps)
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Engineer : Alex

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



5.4.5 Number of Hopping Frequency

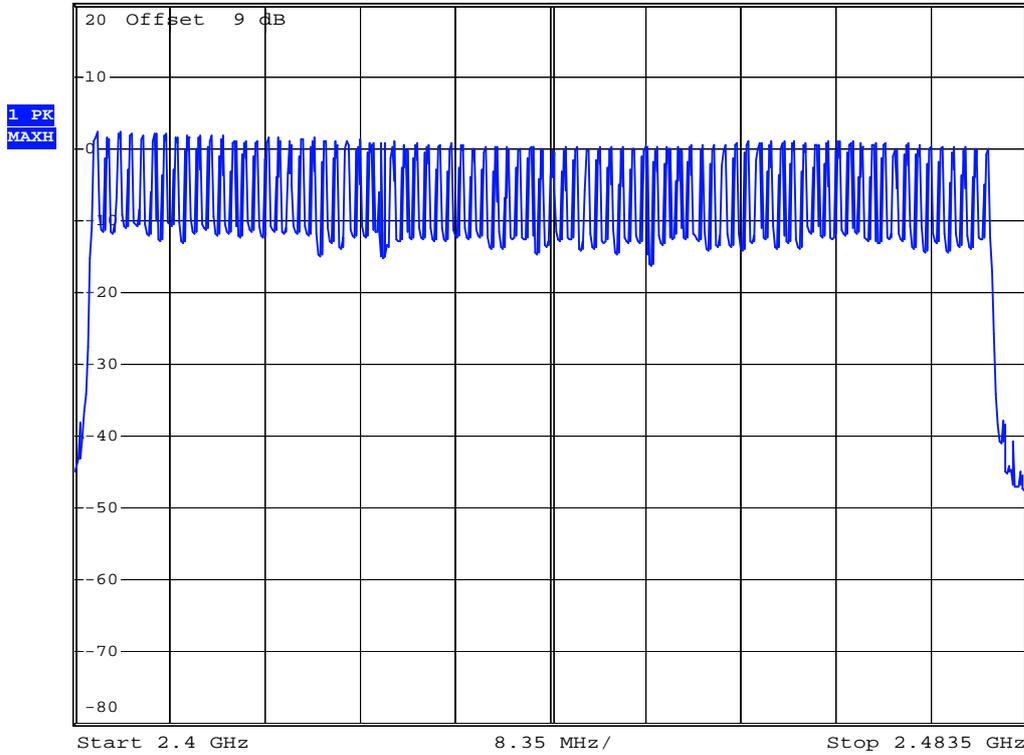
BT



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

Ref 20 dBm

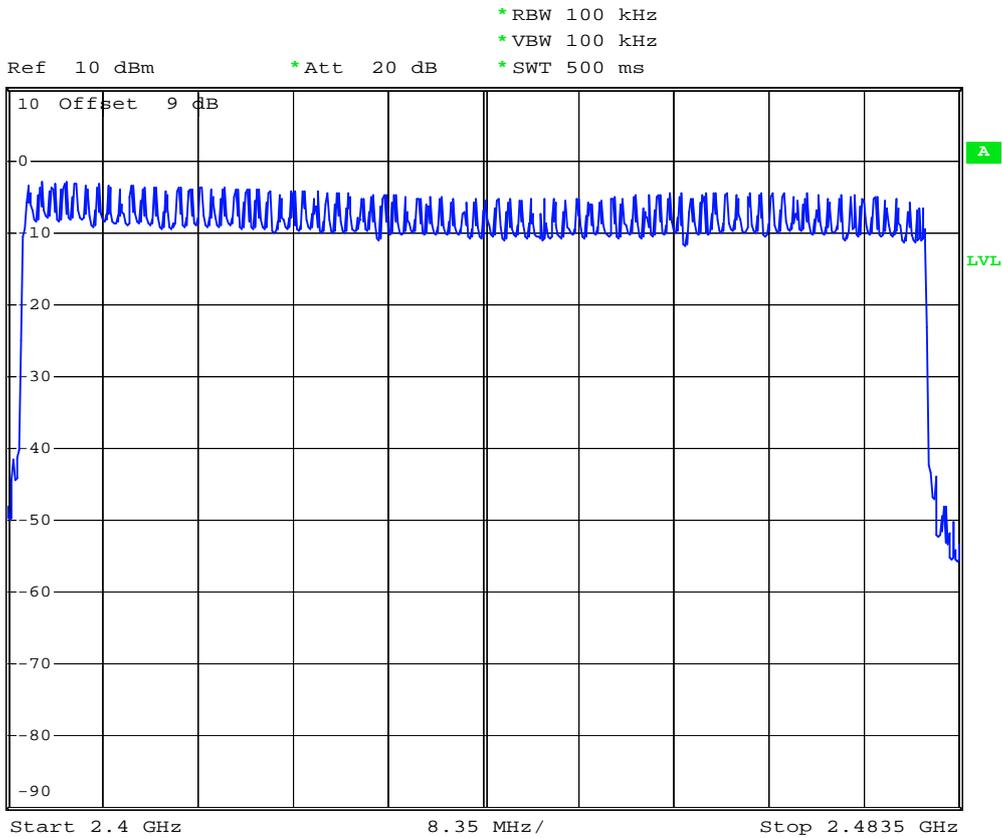
*Att 30 dB



Date: 23.JAN.2008 19:28:16



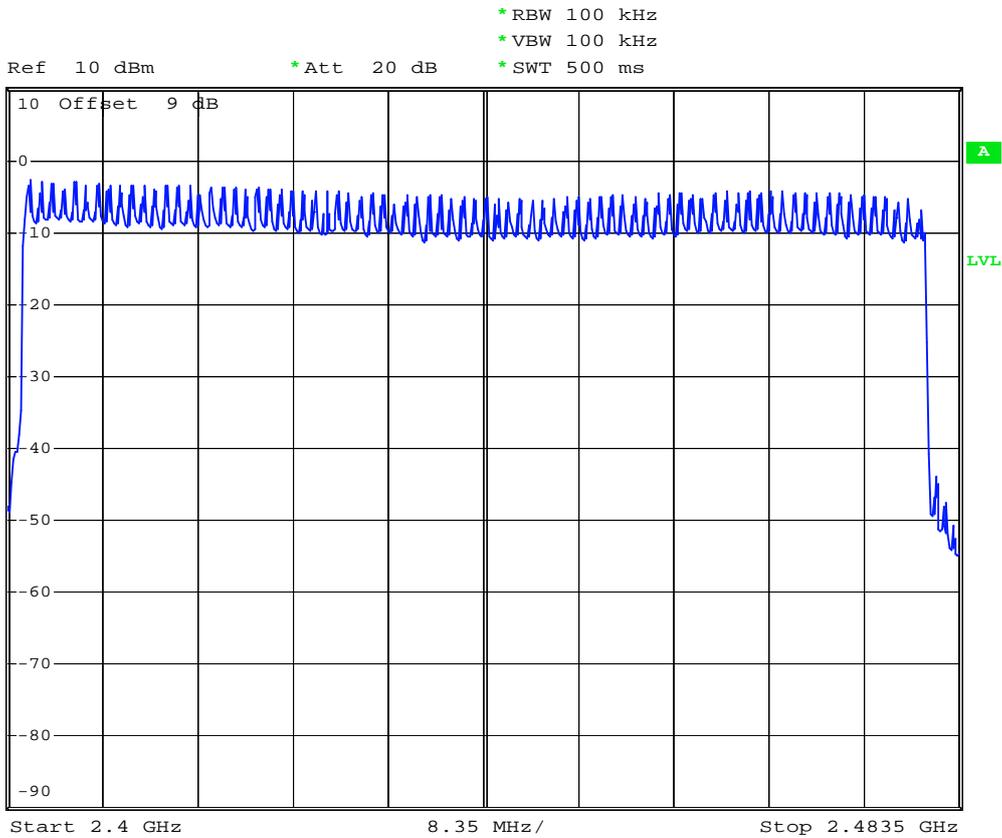
BT EDR(2Mbps)



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BT EDR(3Mbps)



Date: 23.JAN.2008 20:58:48

5.5 Hopping Channel Bandwidth

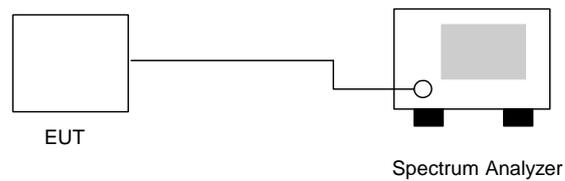
5.5.1 Measuring Instruments

As described in chapter 9 of this test report.

5.5.2 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.

5.5.3 Test Setup Layout





5.5.4 Test Result : See spectrum analyzer plots below

- Application Type : BT
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Enginner : Alex

Channel	Frequency (MHz)	Hopping Channel Bandwidth (MHz)	Plot Ref. No.
00	2402	0.926	Mode 1
39	2441	0.924	Mode 2
78	2480	0.928	Mode 3

- Application Type : BT EDR(2Mbps)
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Enginner : Alex

Channel	Frequency (MHz)	Hopping Channel Bandwidth (MHz)	Plot Ref. No.
00	2402	1.248	Mode 4
39	2441	1.244	Mode 5
78	2480	1.244	Mode 6

- Application Type : BT EDR(3Mbps)
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Enginner : Alex

Channel	Frequency (MHz)	Hopping Channel Bandwidth (MHz)	Plot Ref. No.
00	2402	1.224	Mode 7
39	2441	1.220	Mode 8
78	2480	1.220	Mode 9



5.5.5 Hopping Channel Bandwidth

Mode 1



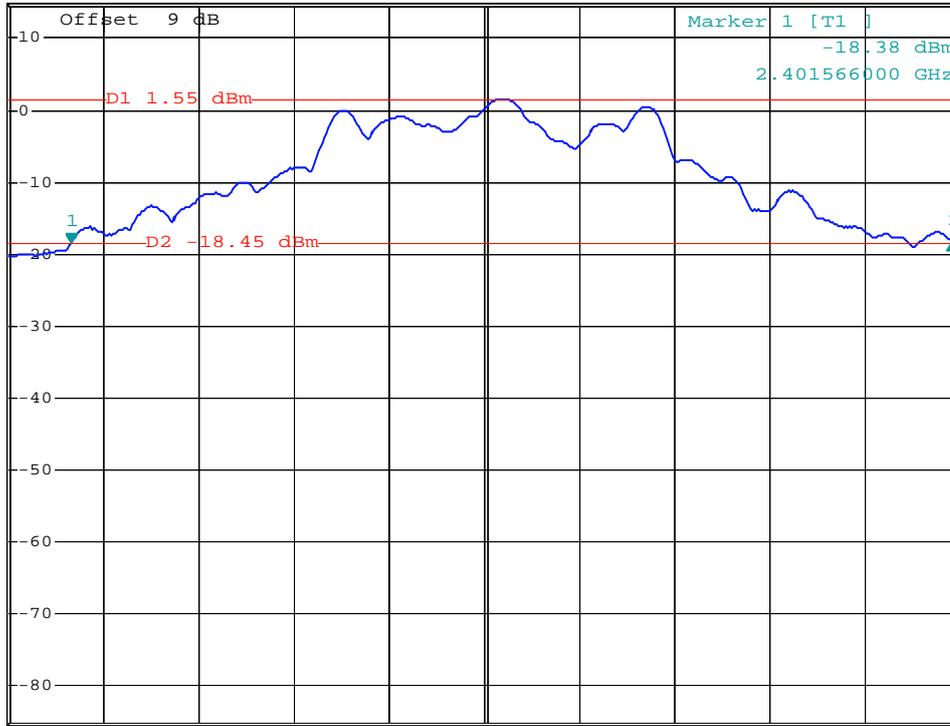
*RBW 30 kHz Delta 2 [T1]
*VBW 300 kHz 0.02 dB
*SWT 500 ms 926.00000000 kHz

Ref 14.7 dBm

*Att 20 dB

926.00000000 kHz

1 PK VIEW



Center 2.402 GHz 100 kHz/ Span 1 MHz

Date: 23.JAN.2008 11:38:29

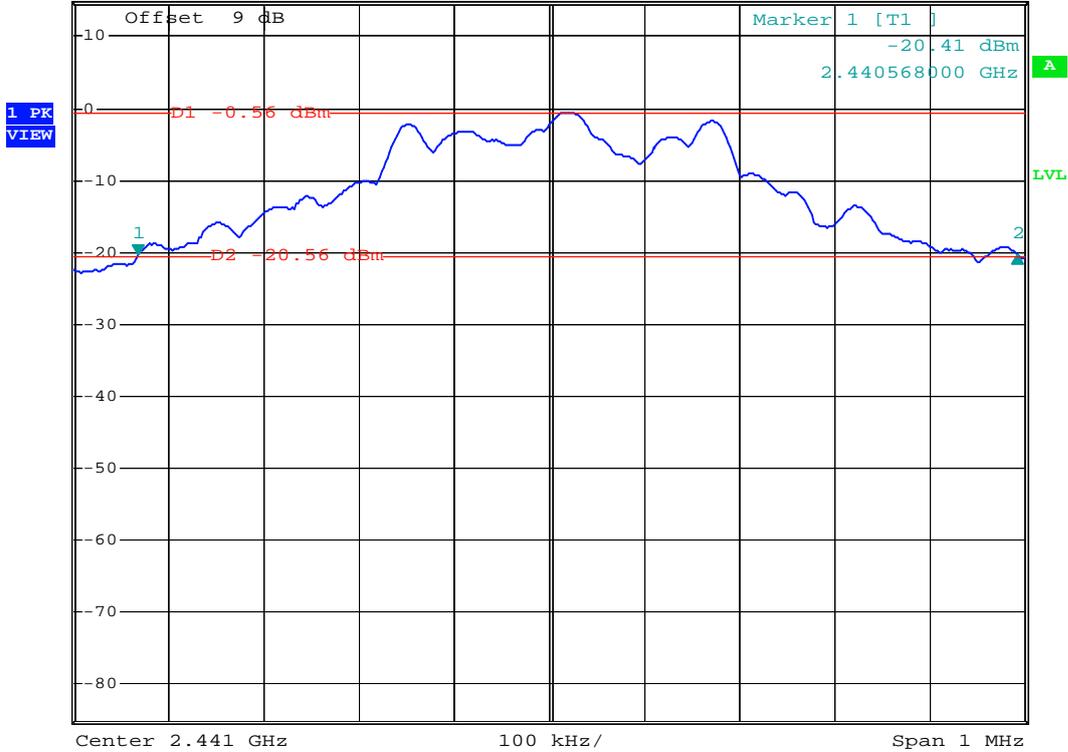


Mode 2



*RBW 30 kHz Delta 2 [T1]
 *VBW 300 kHz -0.03 dB
 *SWT 500 ms 924.00000000 kHz

Ref 14.7 dBm *Att 20 dB



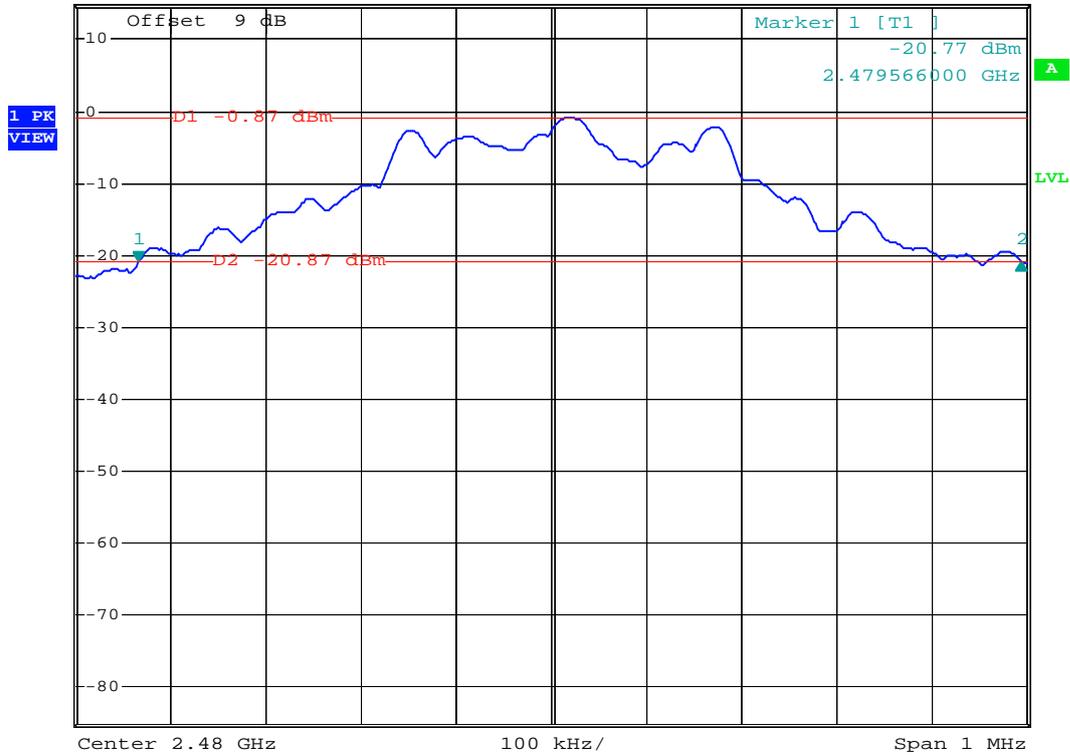
Date: 23.JAN.2008 11:36:55



Mode 3



Ref 14.7 dBm *Att 20 dB *RBW 30 kHz Delta 2 [T1]
 *VBW 300 kHz -0.09 dB
 *SWT 500 ms 928.00000000 kHz



Date: 23.JAN.2008 11:35:01



Mode 4

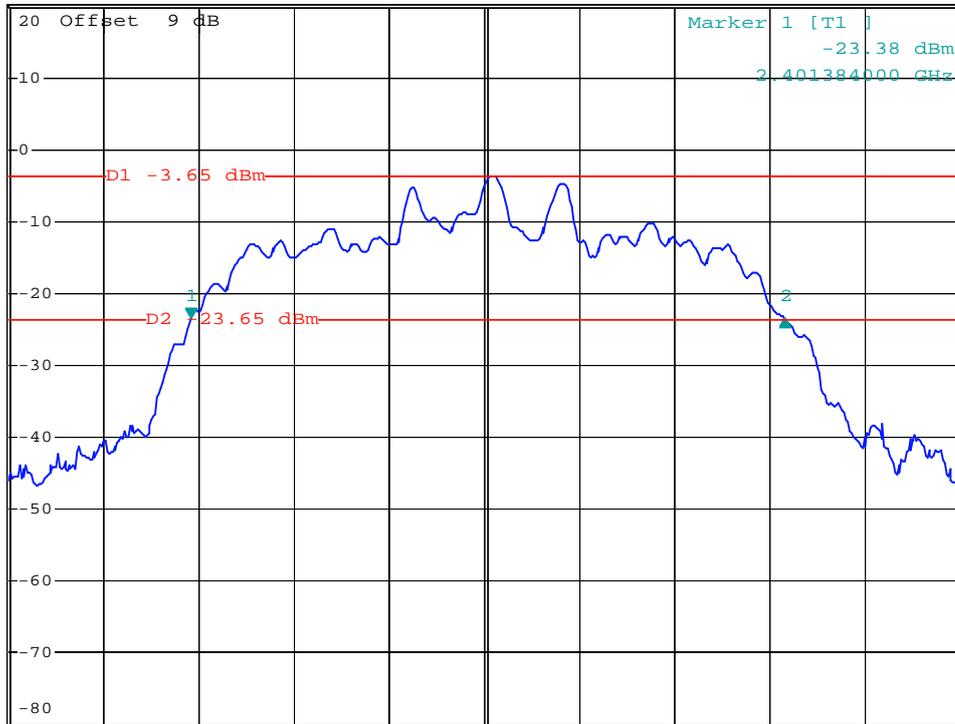


*RBW 30 kHz Delta 2 [T1]
 *VBW 300 kHz -0.14 dB
 *SWT 500 ms 1.248000000 MHz

Ref 20 dBm

*Att 30 dB

1 PK
VIEW



Center 2.402 GHz

200 kHz/

Span 2 MHz

Date: 23.JAN.2008 20:01:16



Mode 5

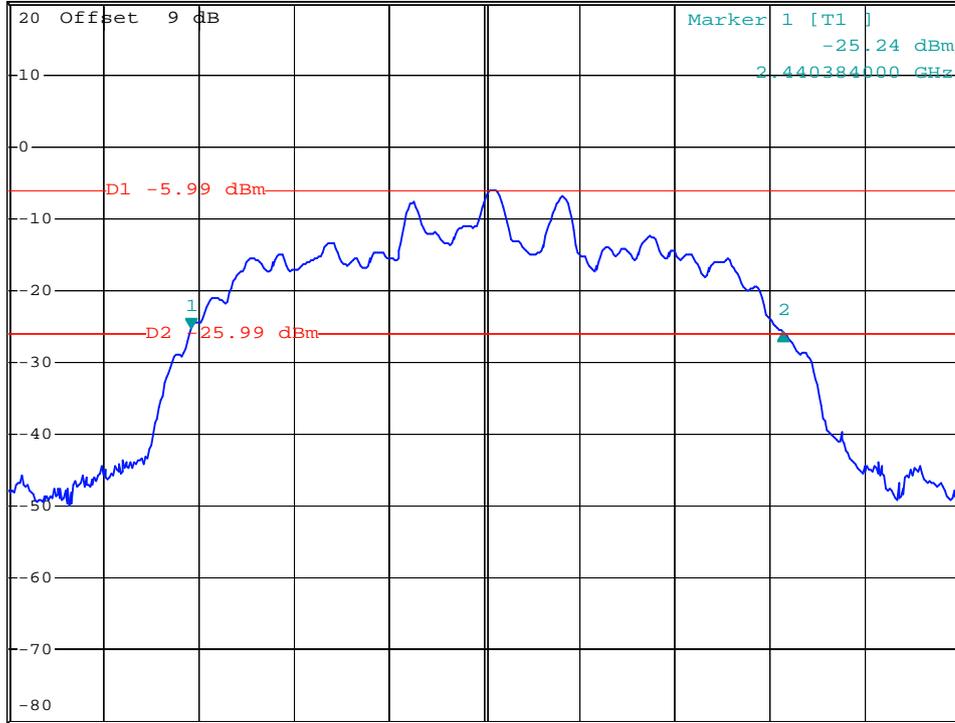


*RBW 30 kHz Delta 2 [T1]
 *VBW 300 kHz -0.64 dB
 *SWT 500 ms 1.244000000 MHz

Ref 20 dBm

*Att 30 dB

1 PK
VIEW



Center 2.441 GHz

200 kHz/

Span 2 MHz

Date: 23.JAN.2008 20:02:35



Mode 6

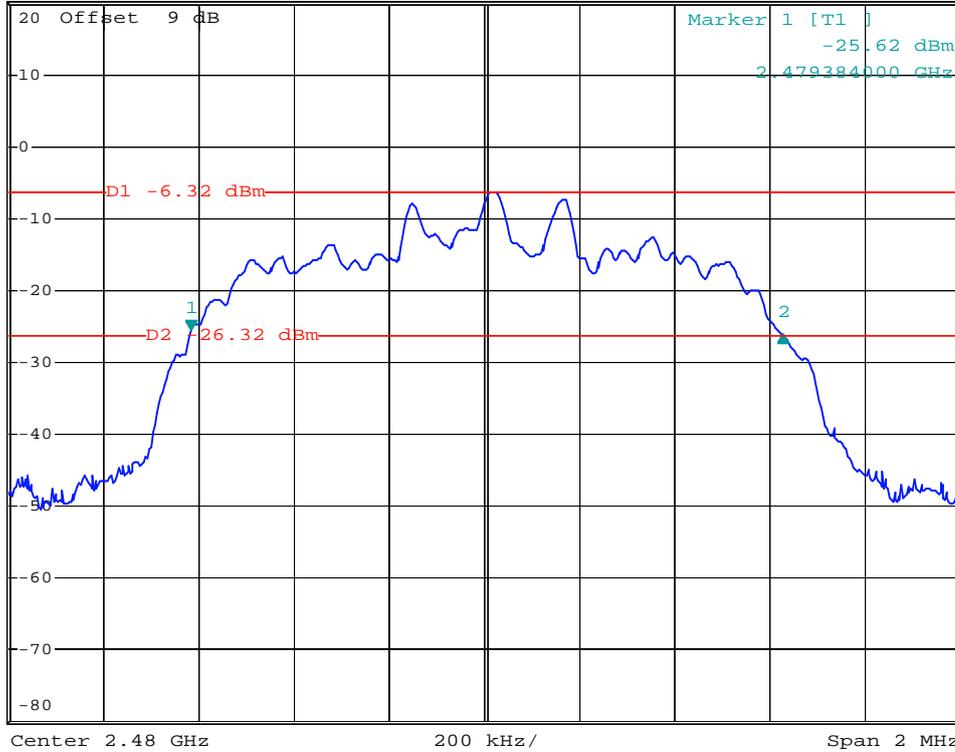


*RBW 30 kHz Delta 2 [T1]
*VBW 300 kHz -0.51 dB
*SWT 500 ms 1.24400000 MHz

Ref 20 dBm

*Att 30 dB

1 PK
VIEW



Date: 23.JAN.2008 20:04:44



Mode 7

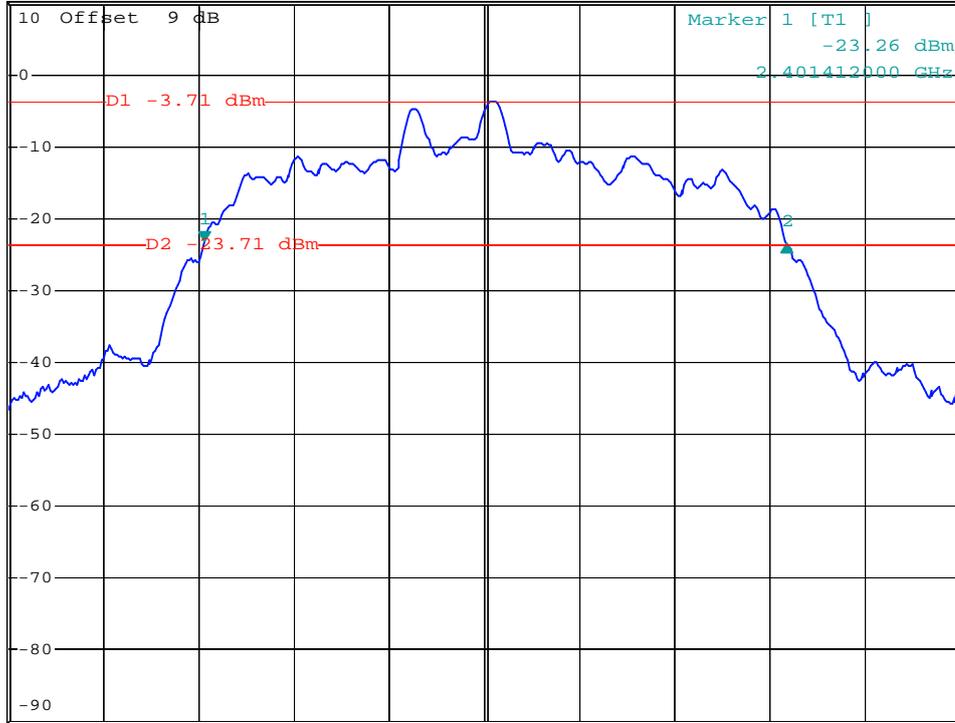


*RBW 30 kHz Delta 2 [T1]
*VBW 300 kHz -0.15 dB
*SWT 500 ms 1.22400000 MHz

Ref 10 dBm

*Att 20 dB

1 PK
VIEW



Center 2.402 GHz

200 kHz/

Span 2 MHz

Date: 23.JAN.2008 20:35:31



Mode 8

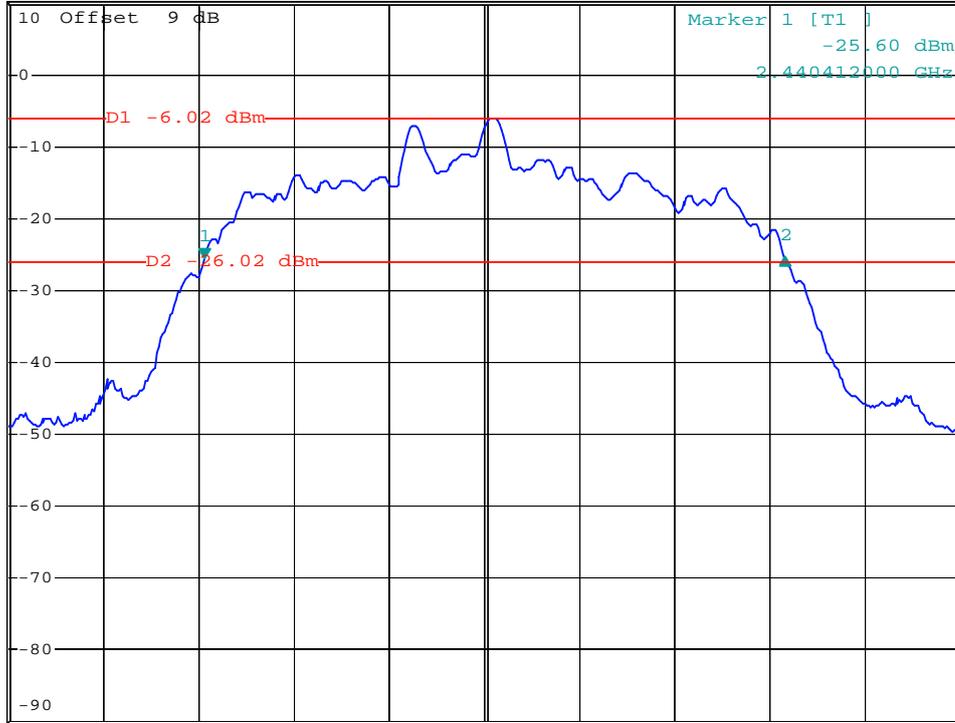


*RBW 30 kHz Delta 2 [T1]
*VBW 300 kHz 0.39 dB
*SWT 500 ms 1.22000000 MHz

Ref 10 dBm

*Att 20 dB

1 PK
VIEW



Center 2.441 GHz

200 kHz/

Span 2 MHz

Date: 23.JAN.2008 20:34:14



Mode 9

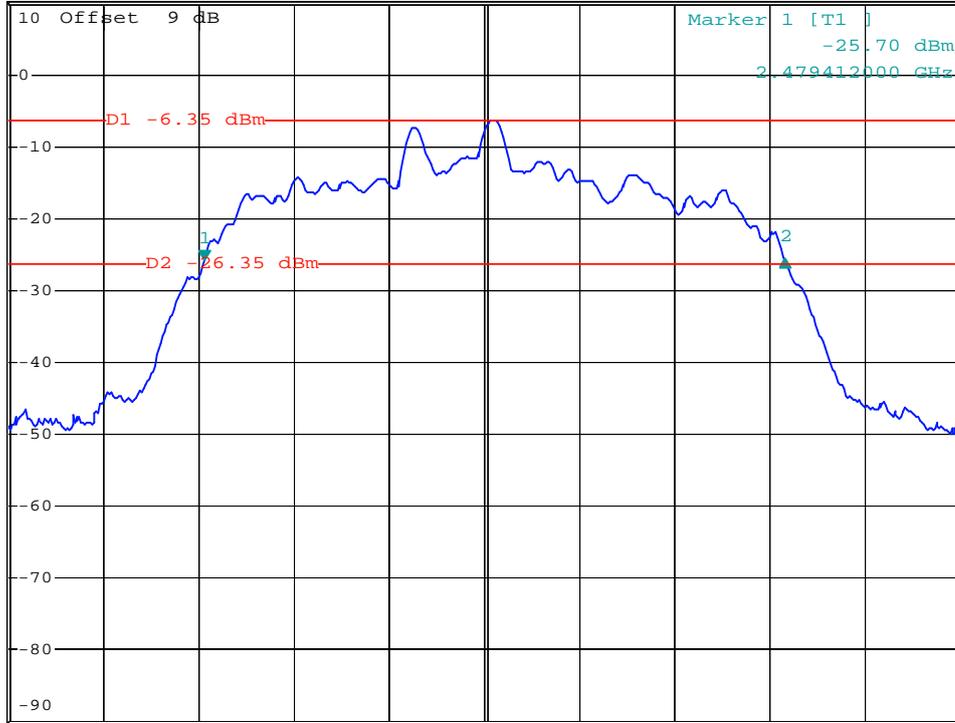


*RBW 30 kHz Delta 2 [T1]
*VBW 300 kHz 0.20 dB
*SWT 500 ms 1.22000000 MHz

Ref 10 dBm

*Att 20 dB

1 PK
VIEW



Center 2.48 GHz

200 kHz/

Span 2 MHz

Date: 23.JAN.2008 20:36:43

5.6 Dwell Time of Each Frequency

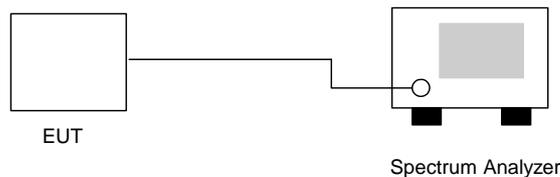
5.6.1 Measuring Instruments

As described in chapter 9 of this test report.

5.6.2 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)

5.6.3 Test Setup Layout



5.6.4 Test Result : See spectrum analyzer plots below

- Application Type : BT
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Enginner : Alex

CH39

Package Mode	Average Hopping Channel	Package Transfer Time (us)	Dwell Time (s)	Limit (s)
DH1	9.4	420	0.125	0.4
DH3	4.3	1690	0.230	0.4
DH5	3	3000	0.284	0.4



- Application Type : BT EDR(2Mbps)
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Enginner : Alex

CH39

Package Mode	Average Hopping Channel	Package Transfer Time (us)	Dwell Time (s)	Limit (s)
DH1	8.7	432	0.119	0.4
DH3	4.7	1688	0.251	0.4
DH5	3.7	2968	0.347	0.4

- Application Type : BT EDR(3Mbps)
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Enginner : Alex

CH39

Package Mode	Average Hopping Channel	Package Transfer Time (us)	Dwell Time (s)	Limit (s)
DH1	8.9	424	0.119	0.4
DH3	4.8	1700	0.258	0.4
DH5	3.8	2960	0.355	0.4

Remark:

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

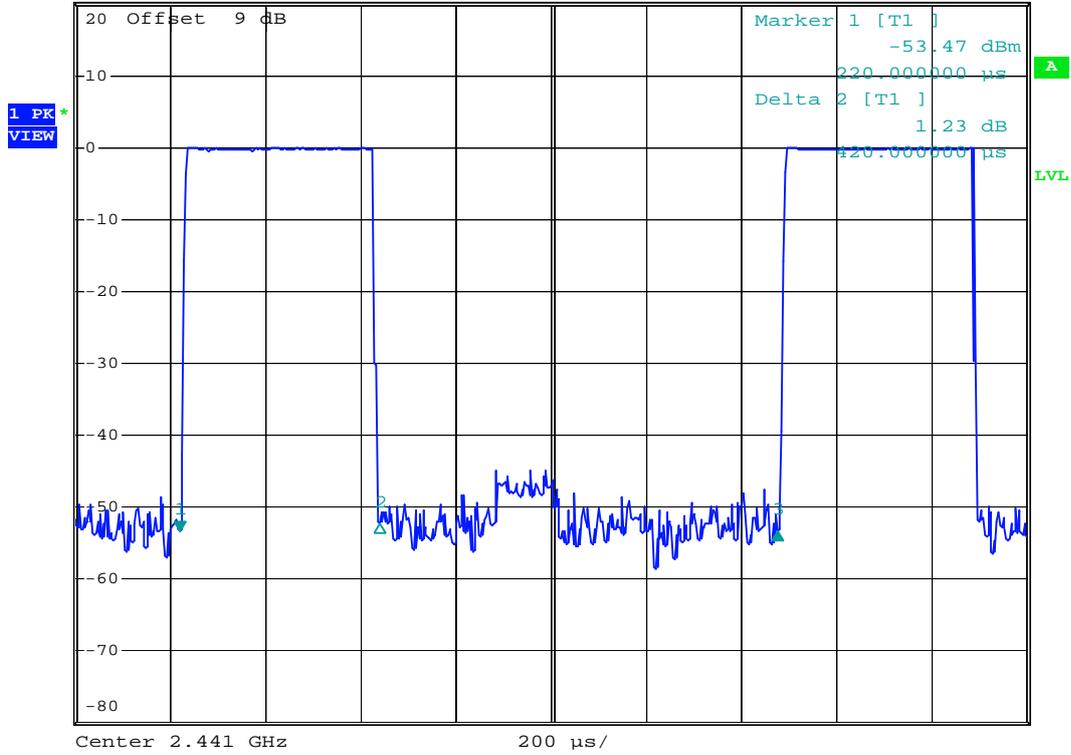


5.6.5 Dwell Time

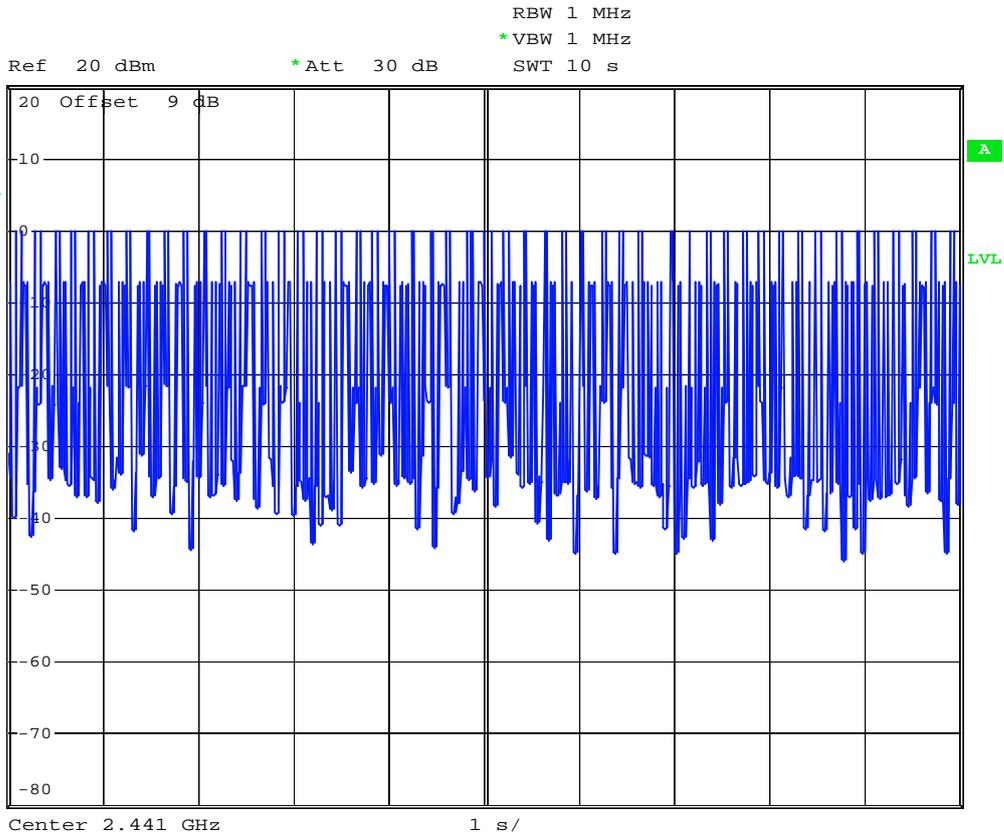
DH1 (CH39)



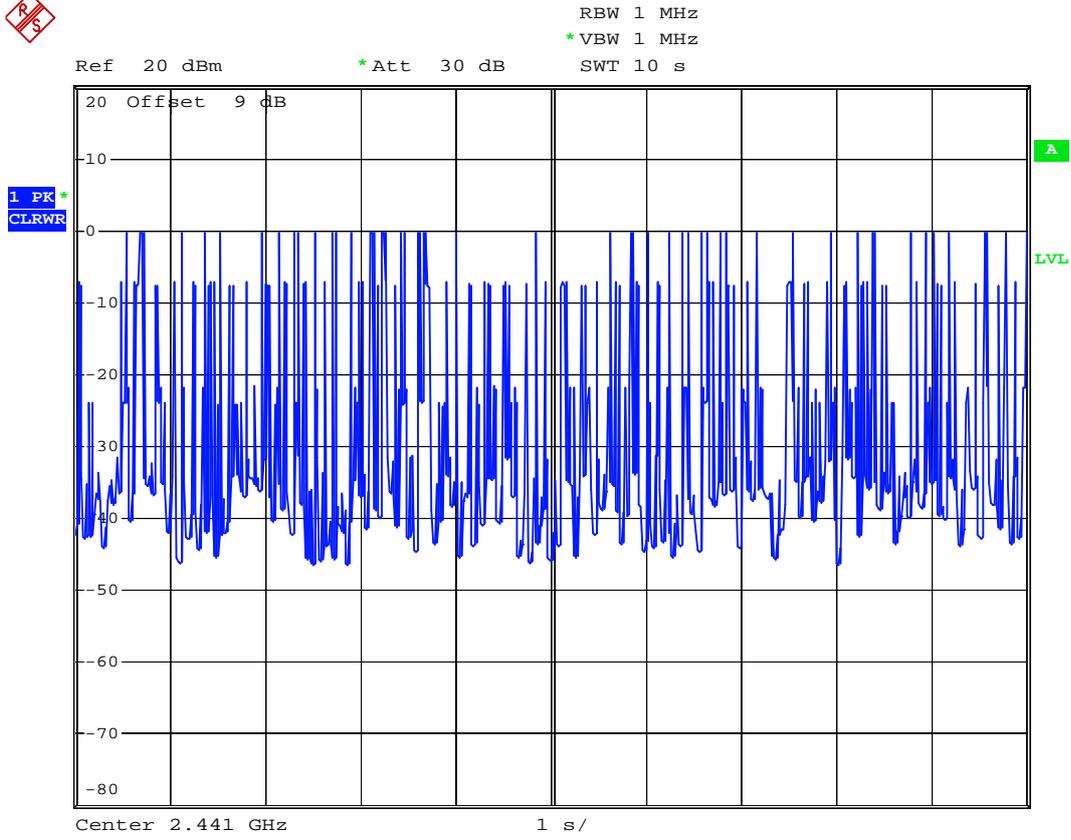
Ref 20 dBm *Att 30 dB RBW 1 MHz Delta 3 [T1] -0.01 dB
 *VBW 1 MHz SWT 2 ms 1.256000 ms



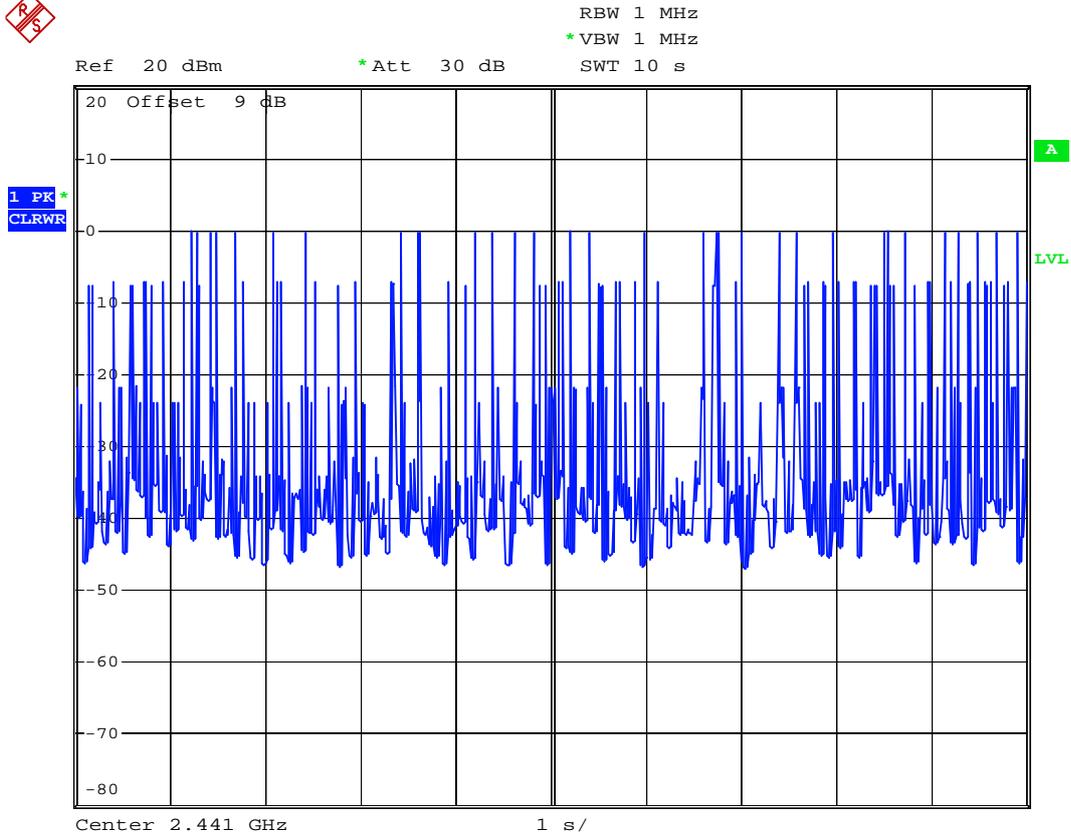
Date: 23.JAN.2008 19:35:04



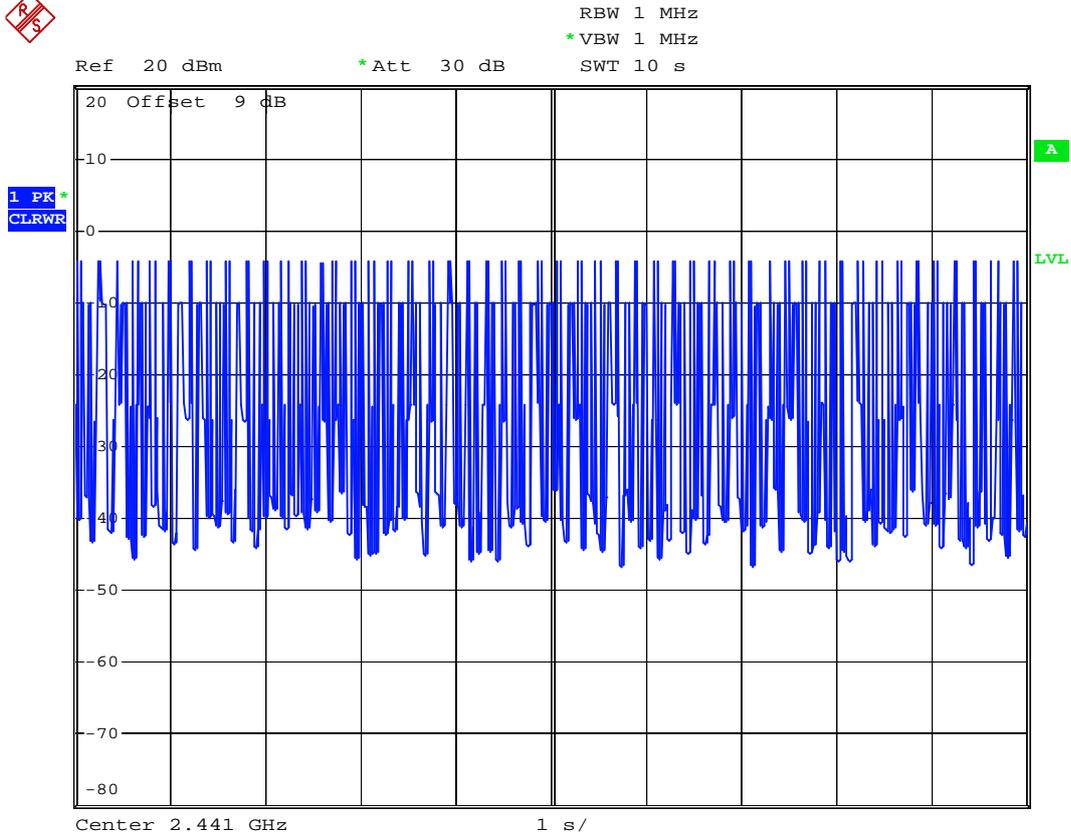
Date: 23.JAN.2008 19:41:21



Date: 23.JAN.2008 19:40:27



Date: 23.JAN.2008 19:38:48



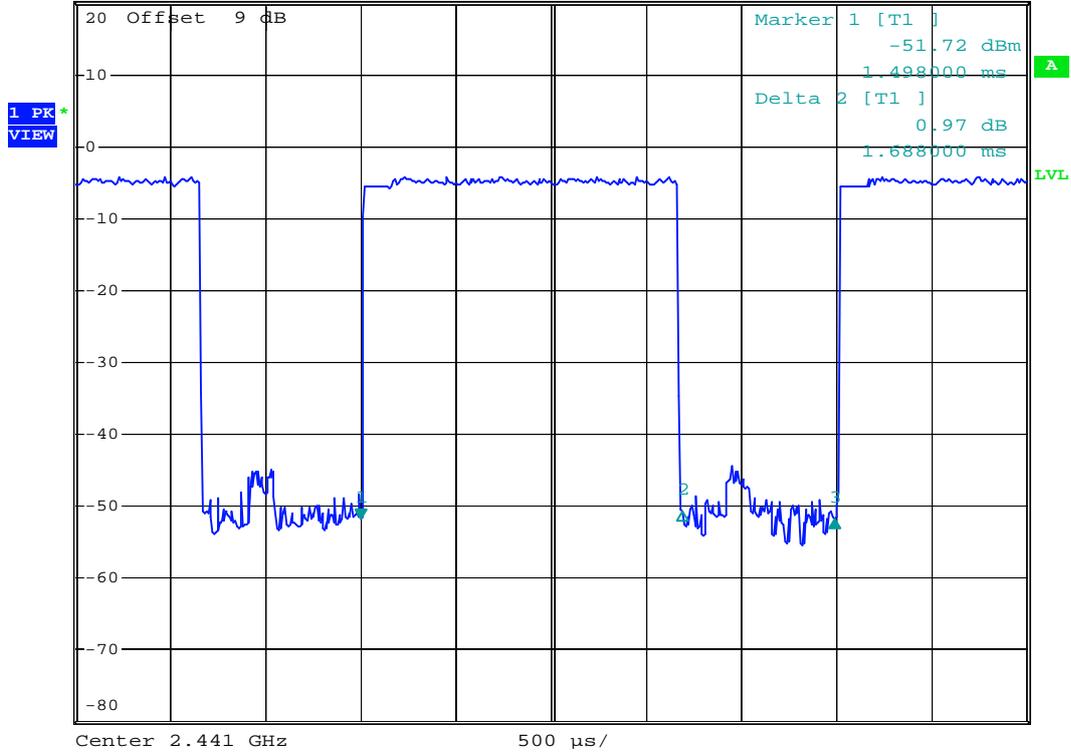
Date: 23.JAN.2008 19:58:11



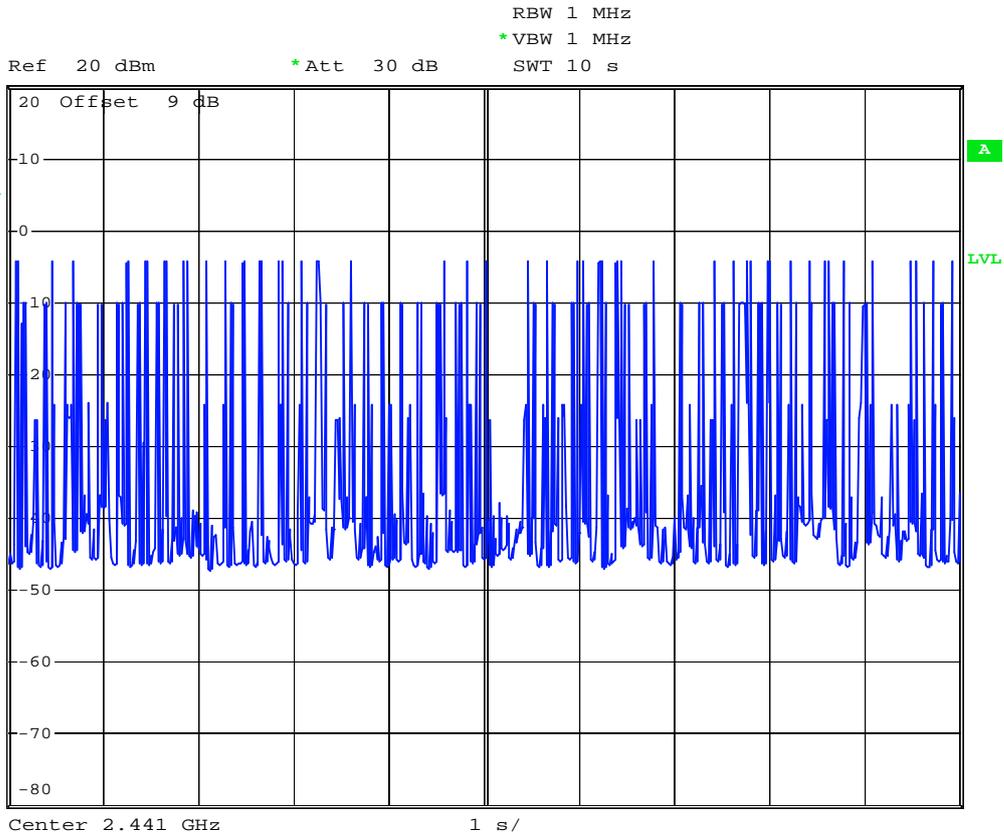
2 DH3 (CH39)



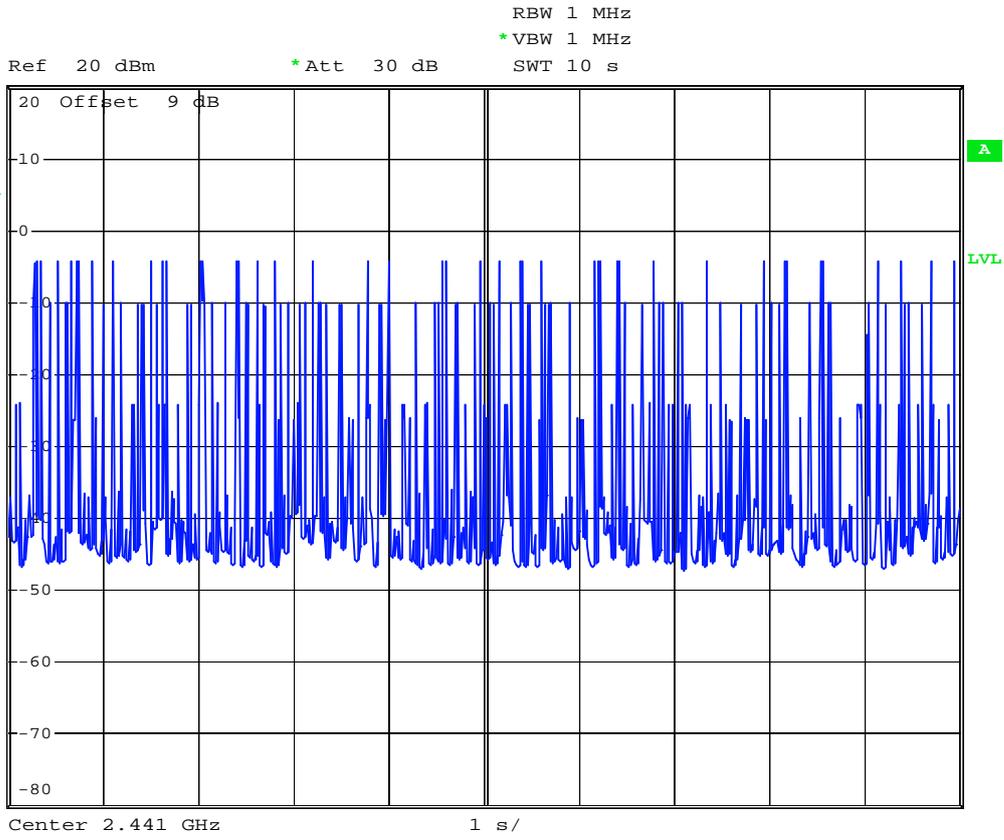
Ref 20 dBm *Att 30 dB RBW 1 MHz Delta 3 [T1] -0.08 dB
 *VBW 1 MHz SWT 5 ms 2.490000 ms



Date: 23.JAN.2008 19:53:28



Date: 23.JAN.2008 19:57:27



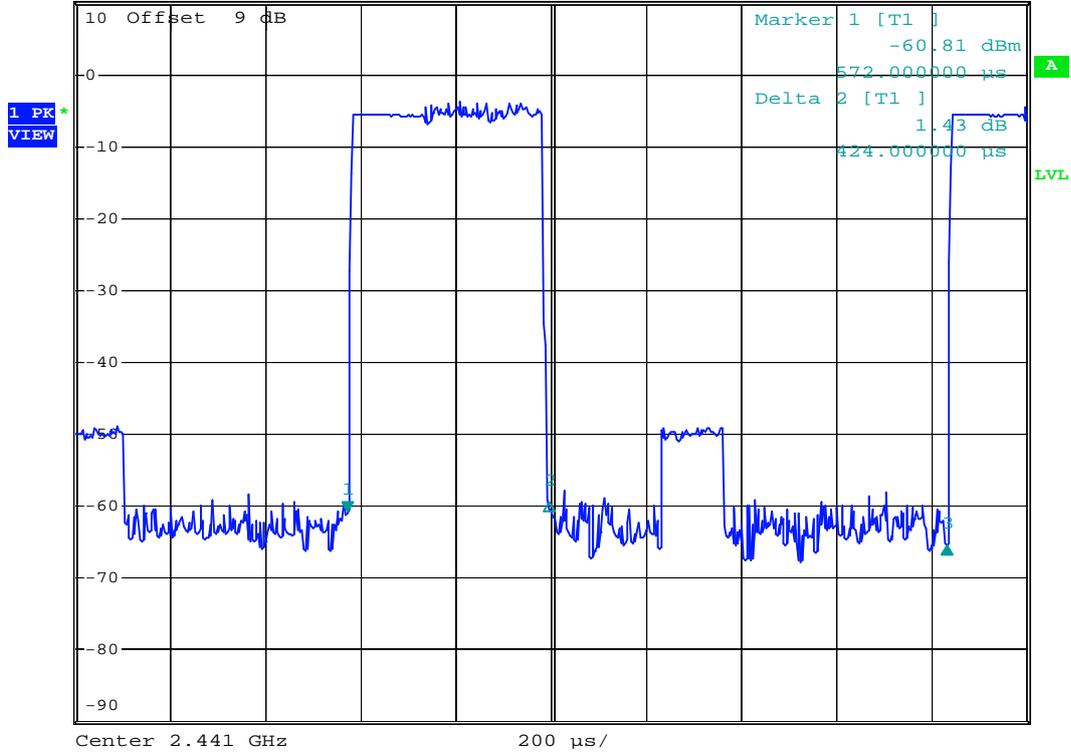
Date: 23.JAN.2008 19:56:30



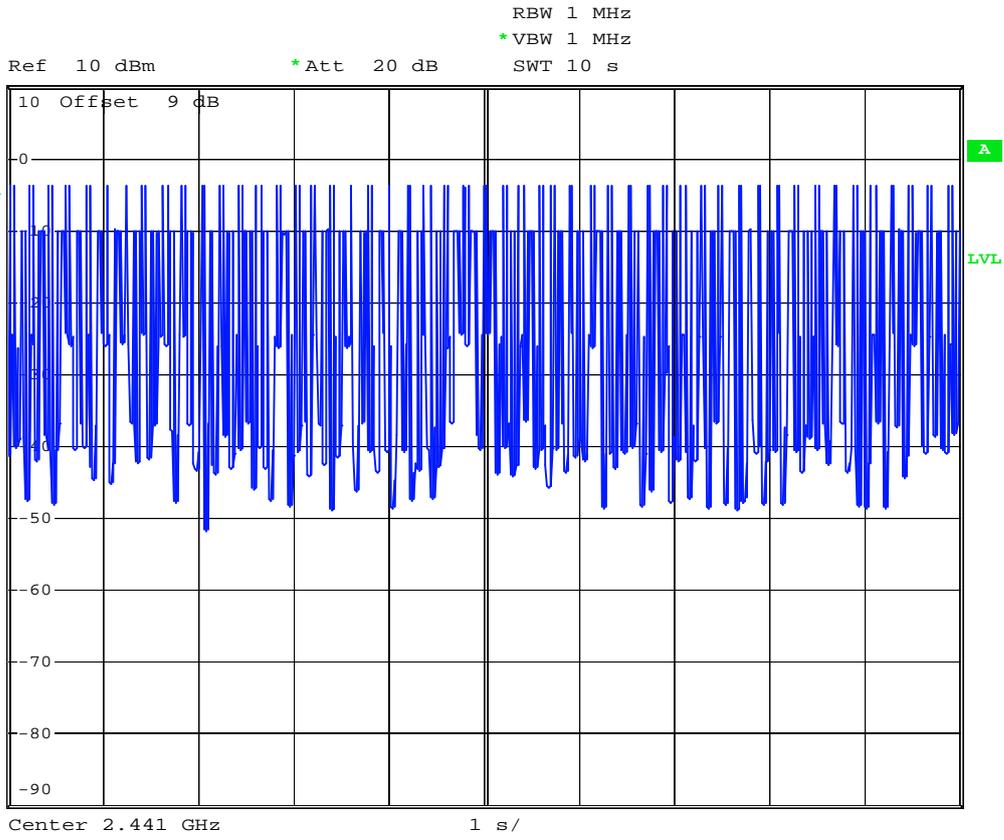
3DH1 (CH39)



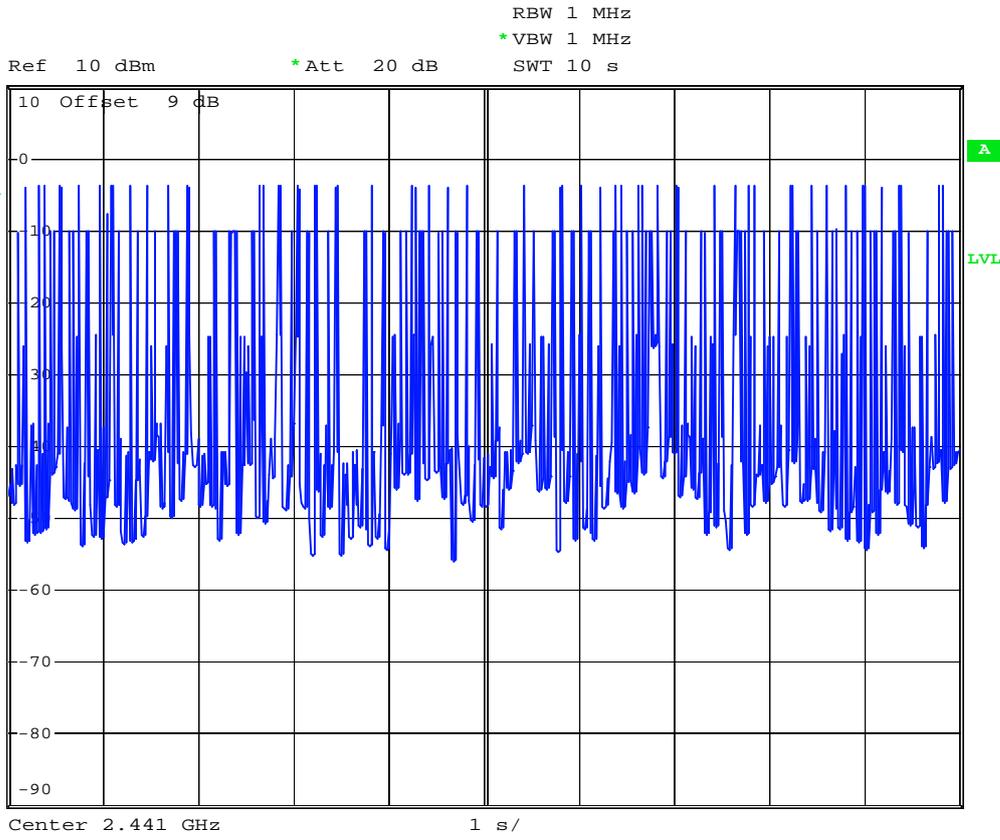
Ref 10 dBm *Att 20 dB RBW 1 MHz Delta 3 [T1] -4.53 dB
 *VBW 1 MHz SWT 2 ms 1.260000 ms



Date: 23.JAN.2008 20:27:01



Date: 23.JAN.2008 20:32:22



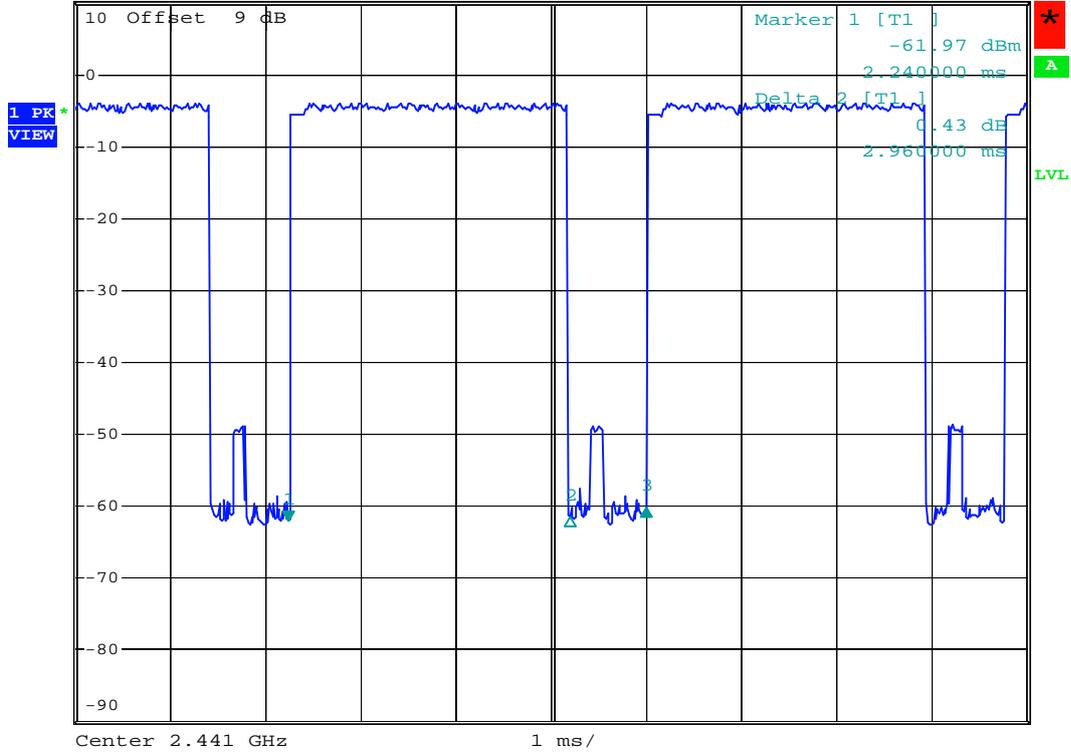
Date: 23.JAN.2008 20:31:38



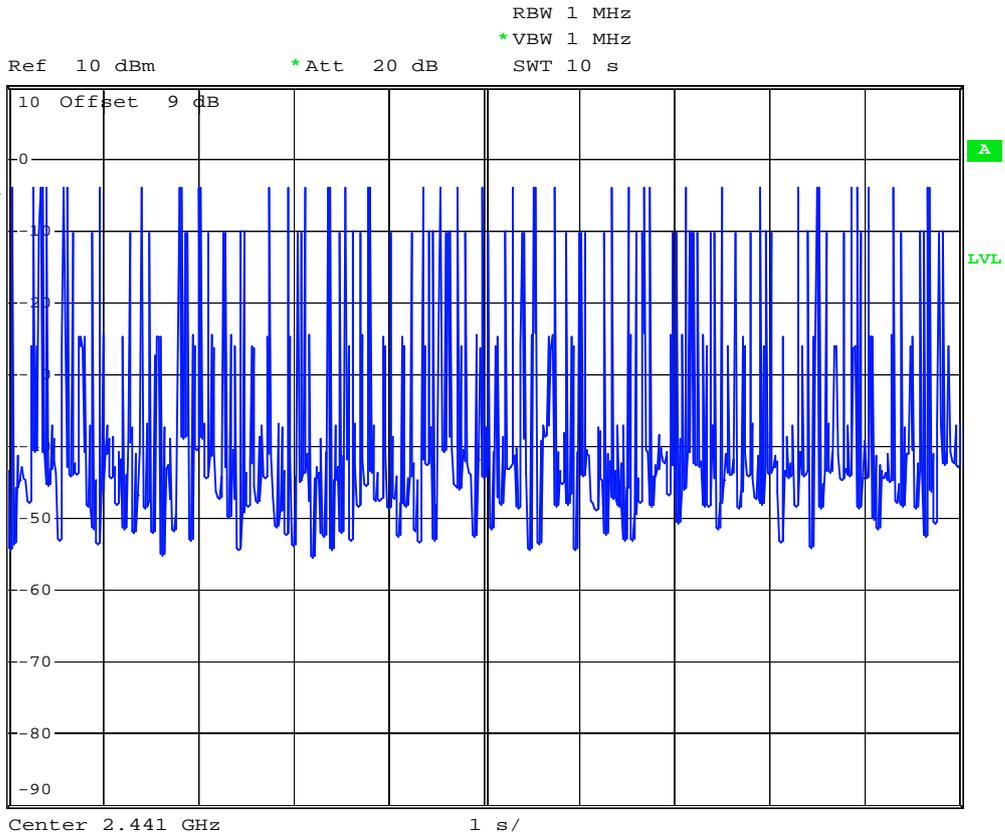
3DH5 (CH39)



Ref 10 dBm *Att 20 dB RBW 1 MHz Delta 3 [T1] 3.760000 ms
 *VBW 1 MHz 1.63 dB
 SWT 10 ms



Date: 23.JAN.2008 20:29:26



Date: 23.JAN.2008 20:30:47

5.7 Peak Output Power Measurement

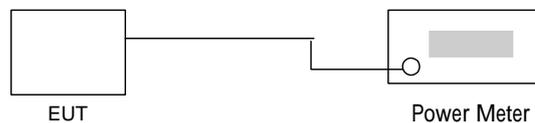
5.7.1 Measuring Instruments

As described in chapter 6 of this test report.

5.7.2 Test Procedure

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.

5.7.3 Test Setup Layout





5.7.4 Test Result

- Application Type : BT
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Engineer : Alex

▪ BT(1Mbps)

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
00	2402	2.78	1W/30 dBm
39	2441	0.53	1W/30 dBm
78	2480	0.23	1W/30 dBm

▪ BT EDR(2Mbps)

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
00	2402	-0.92	1W/30 dBm
39	2441	-3.25	1W/30 dBm
78	2480	-3.52	1W/30 dBm

▪ BT EDR(3Mbps)

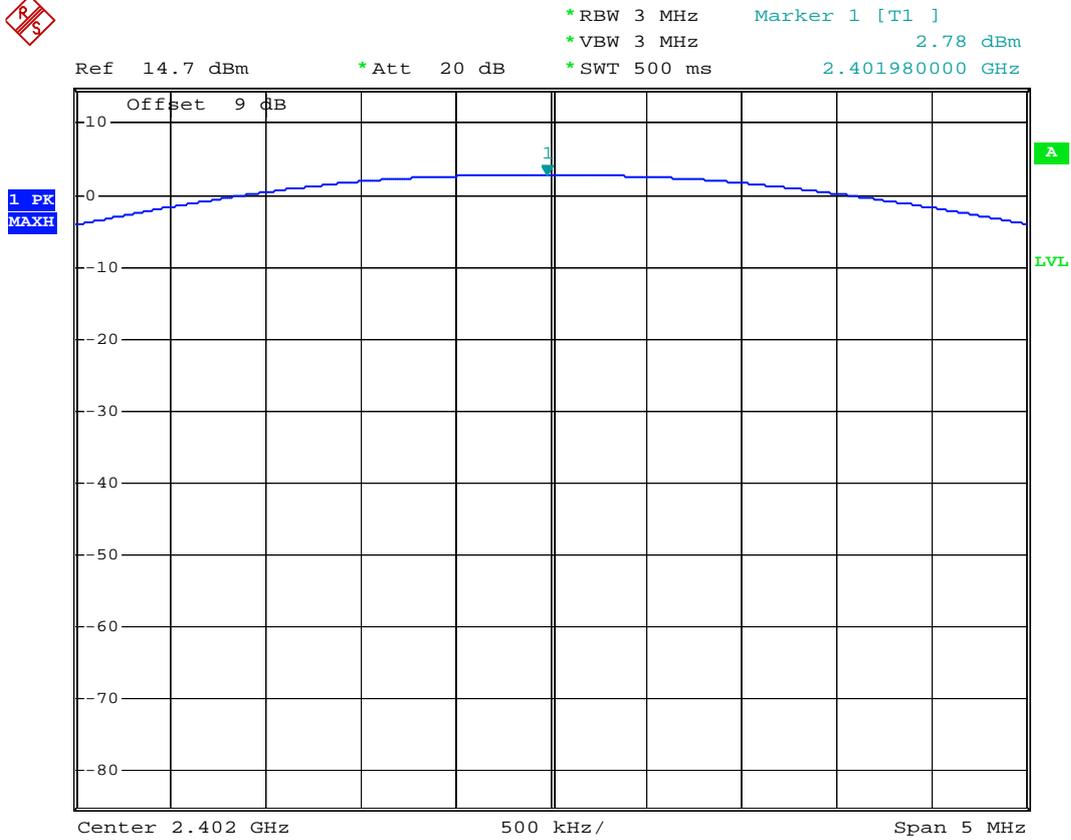
Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)
00	2402	-0.48	1W/30 dBm
39	2441	-2.83	1W/30 dBm
78	2480	-3.13	1W/30 dBm



5.7.5 Output Power

BT(1Mbps)

Mode : CH00 (2402MHz)



Date: 23.JAN.2008 11:31:28



BT(1Mbps)

Mode : CH39 (2441MHz)

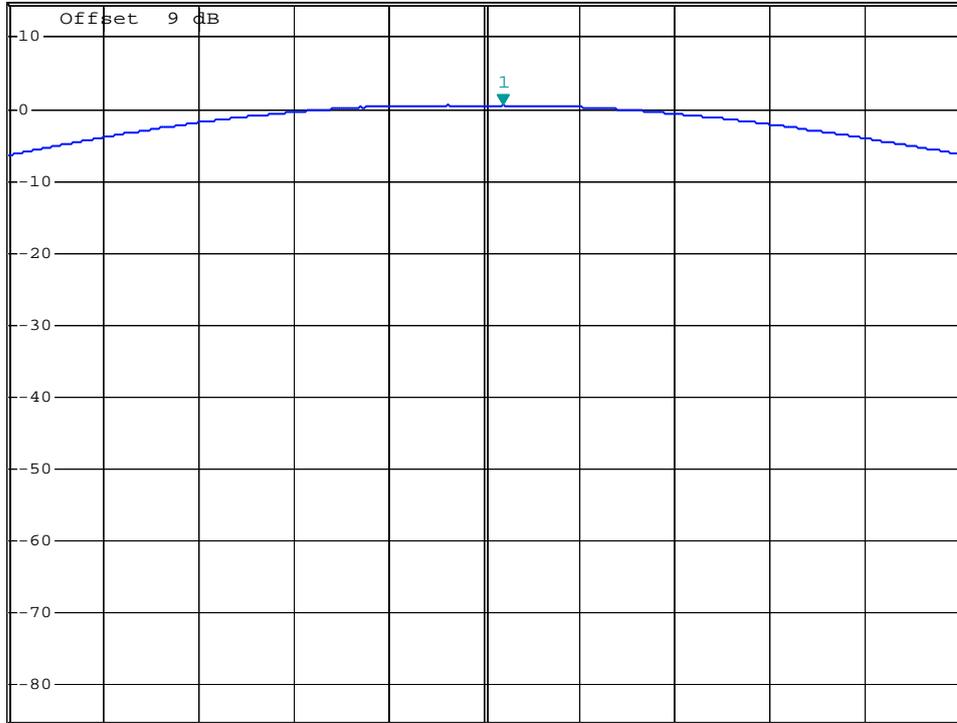


*RBW 3 MHz Marker 1 [T1]
 *VBW 3 MHz 0.53 dBm
 *SWT 500 ms 2.441100000 GHz

Ref 14.7 dBm

*Att 20 dB

1 PK
MAXH



Center 2.441 GHz

500 kHz/

Span 5 MHz

Date: 23.JAN.2008 11:32:10



Bluetooth(1Mbps)

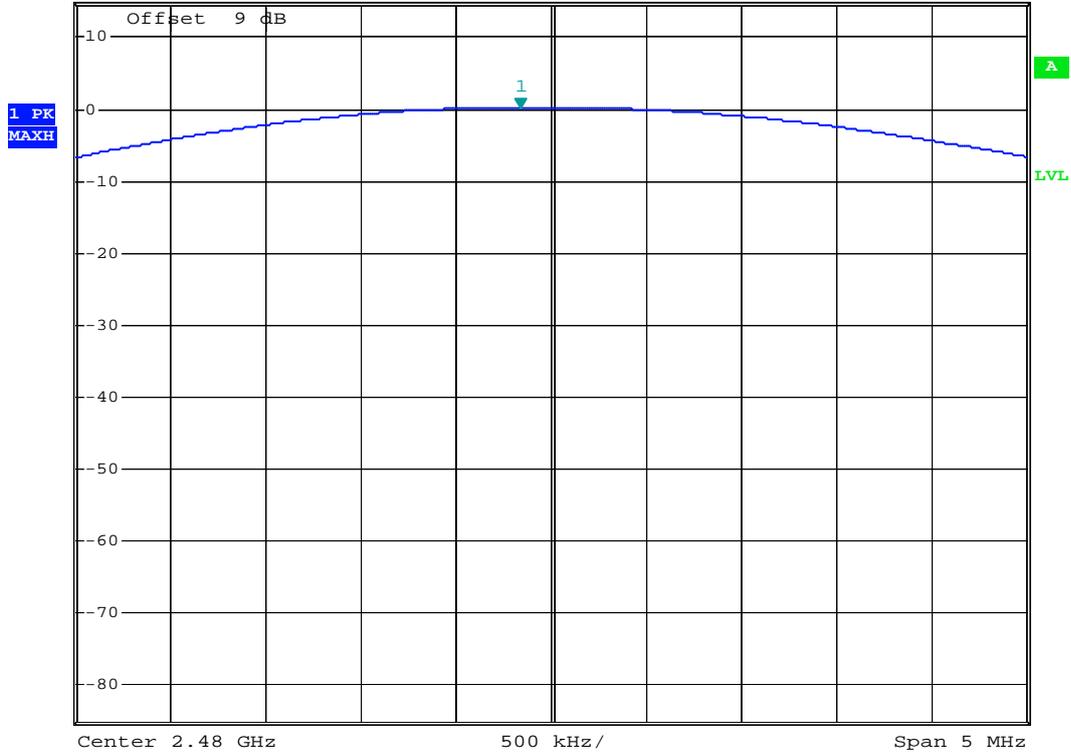
Mode : CH78 (2480MHz)



*RBW 3 MHz Marker 1 [T1]
 *VBW 3 MHz 0.23 dBm
 *SWT 500 ms 2.479840000 GHz

Ref 14.7 dBm

*Att 20 dB



Date: 23.JAN.2008 11:33:02

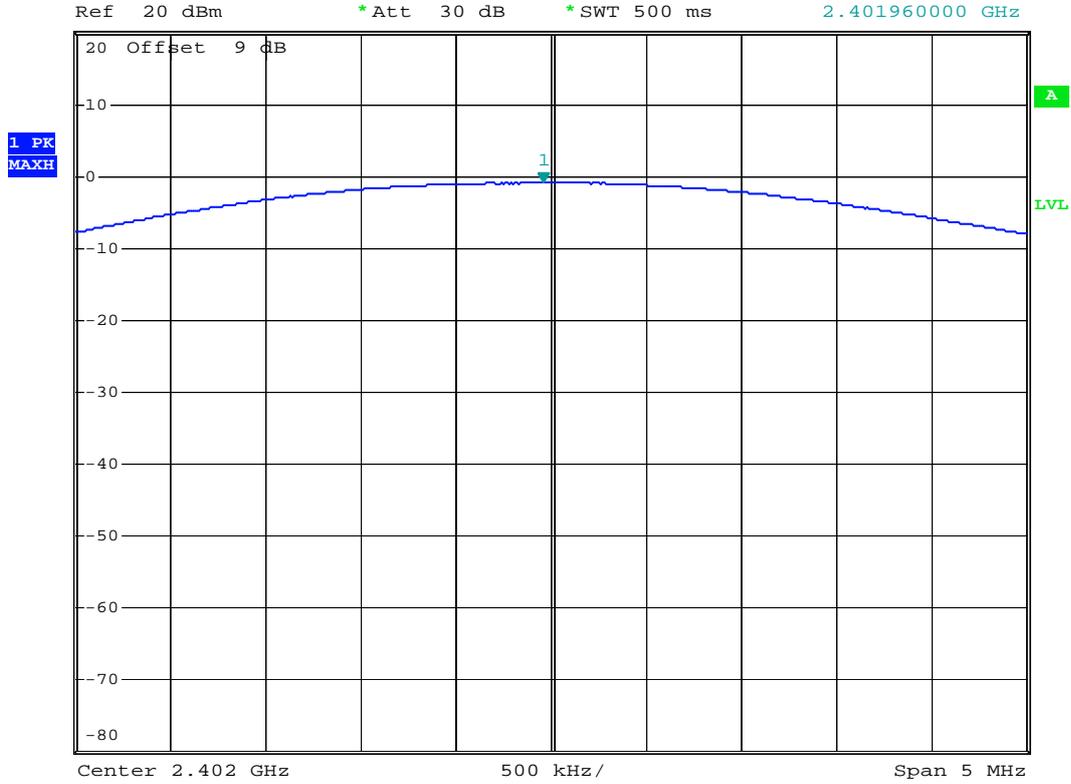


Bluetooth(2Mbps)

Mode : CH00 (2402MHz)



*RBW 3 MHz Marker 1 [T1]
 *VBW 3 MHz -0.92 dBm
 *SWT 500 ms 2.401960000 GHz



Date: 23.JAN.2008 19:43:23

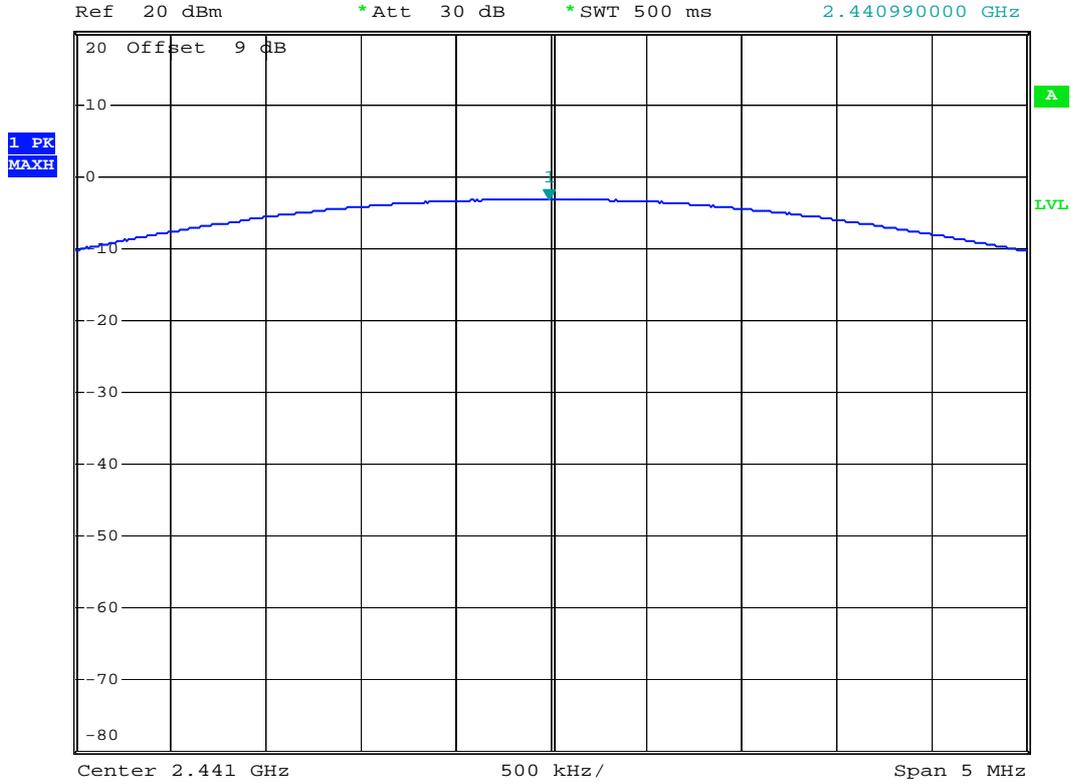


Bluetooth(2Mbps)

Mode : CH39 (2441MHz)



*RBW 3 MHz Marker 1 [T1]
 *VBW 3 MHz -3.25 dBm
 *SWT 500 ms 2.440990000 GHz



Date: 23.JAN.2008 19:44:20

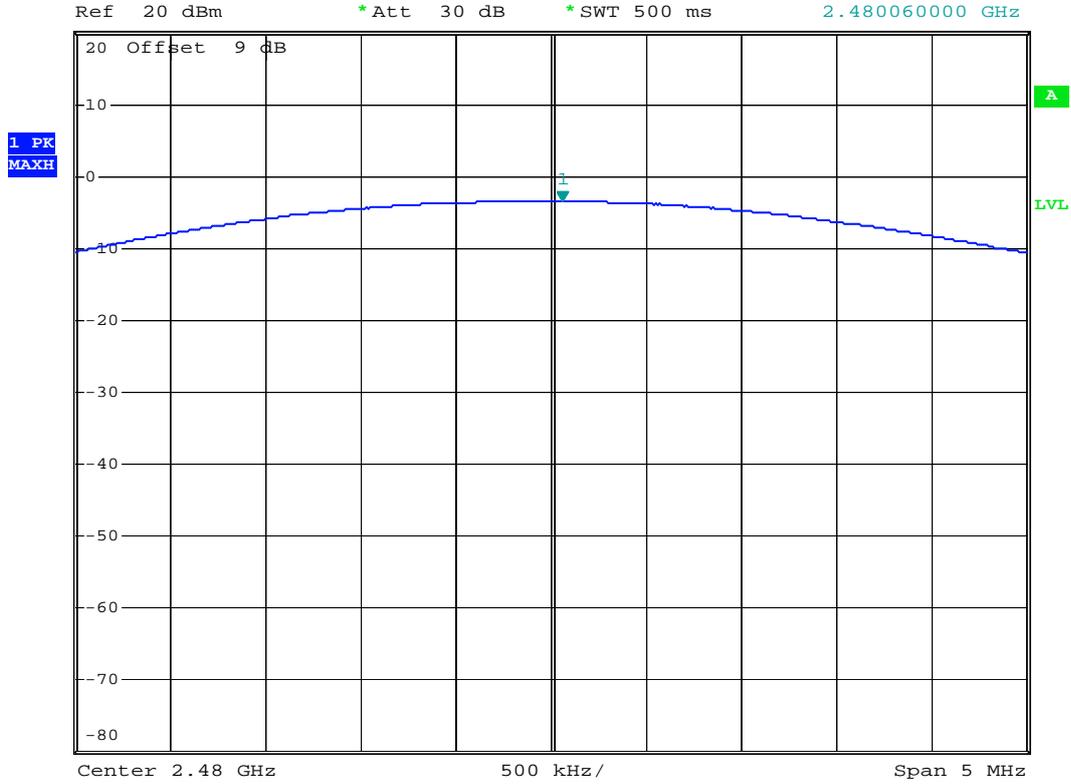


Bluetooth(2Mbps)

Mode : CH78 (2480MHz)



*RBW 3 MHz Marker 1 [T1]
 *VBW 3 MHz -3.52 dBm
 *SWT 500 ms 2.480060000 GHz



Date: 23.JAN.2008 19:48:39

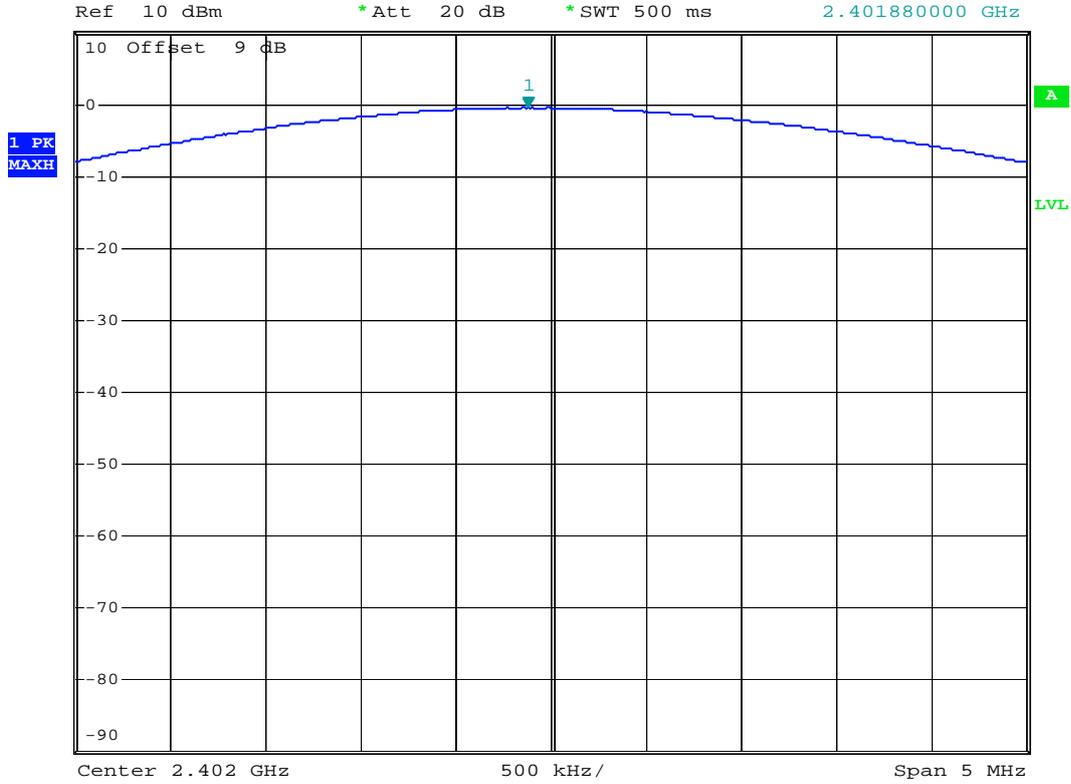


Bluetooth(3Mbps)

Mode : CH00 (2402MHz)



*RBW 3 MHz Marker 1 [T1]
 *VBW 3 MHz -0.48 dBm
 *SWT 500 ms 2.401880000 GHz

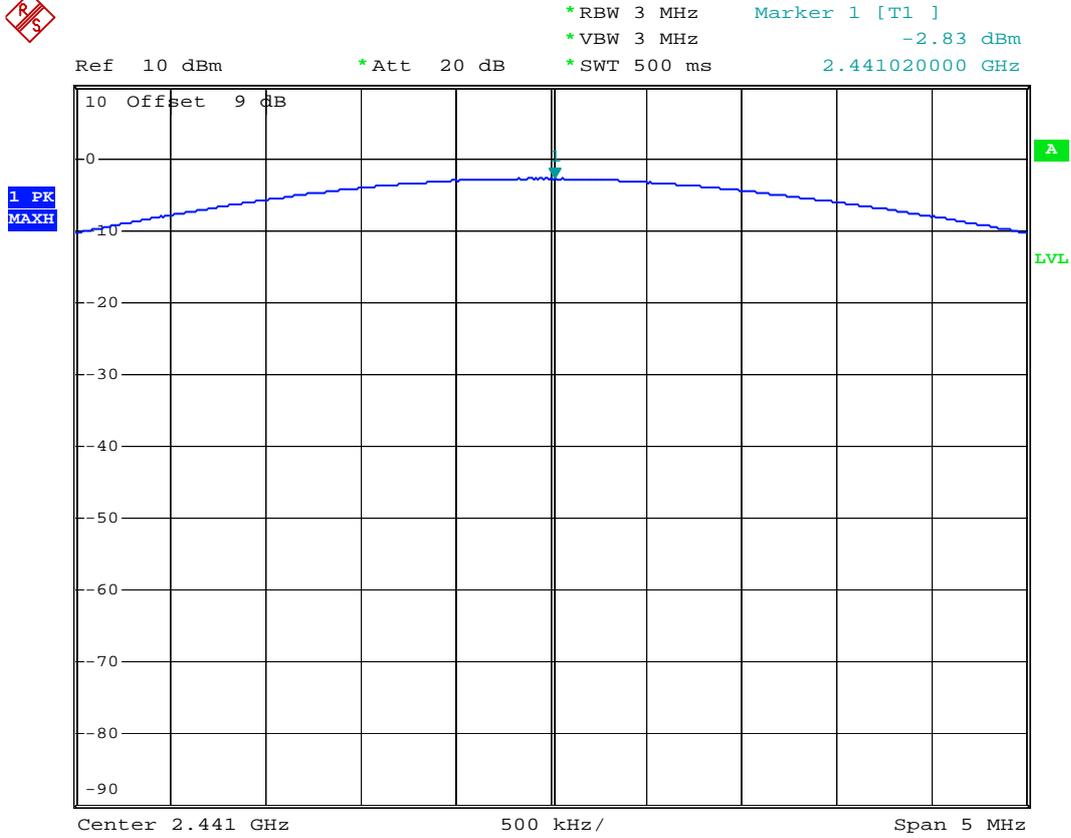


Date: 23.JAN.2008 20:24:57



Bluetooth(3Mbps)

Mode : CH39 (2441MHz)

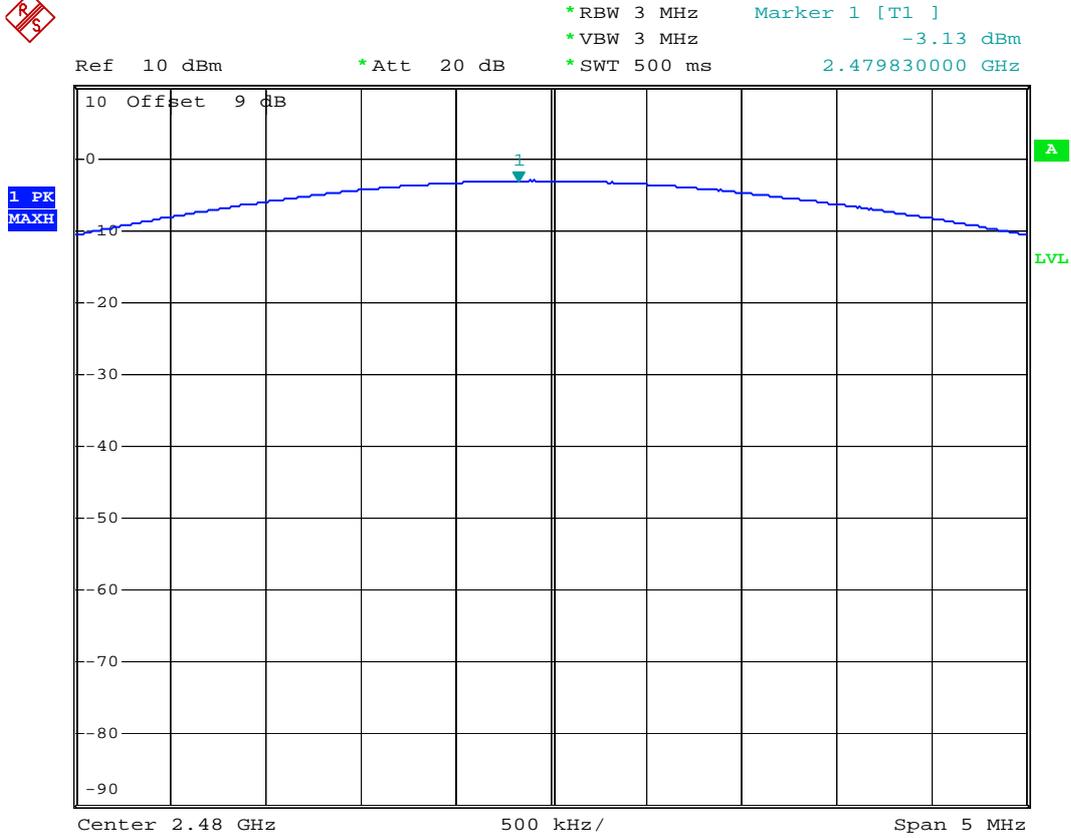


Date: 23.JAN.2008 20:24:06



Bluetooth(3Mbps)

Mode : CH78 (2480MHz)



Date: 23.JAN.2008 20:23:19



5.8 Conducted Emission

5.8.1 Measuring Instruments

As described in chapter 6 of this test Report.

5.8.2 Test Procedures

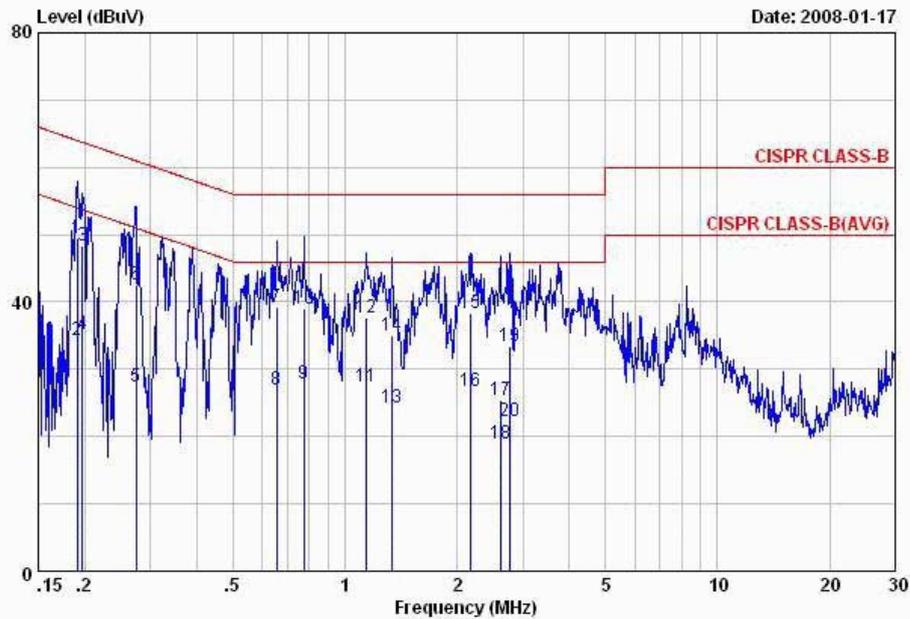
- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power port of a line impedance stabilization network (LISN).
- c. All the support units are connected to the other LISN.
- 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.



5.8.3 Test Data

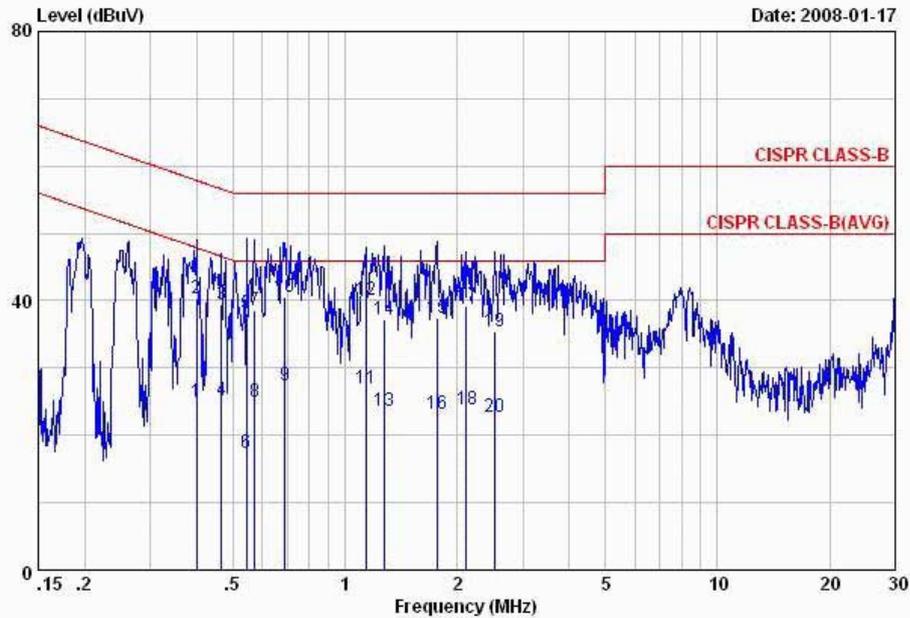
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Enginner : Alex
- Test Mode : Mode 1

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



Site : C001-KS
 Condition: CISPR CLASS-B LISN-071001 LINE
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : C79
 Memo : CDMA 850 Idle+BT Idle+Camera+adaptor

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
		dBuV	dB	dBuV	dBuV	dB	dB	
1	0.19	49.56	-14.46	64.02	39.48	-0.07	10.15	QP
2	0.19	34.29	-19.73	54.02	24.21	-0.07	10.15	Average
3	0.20	48.32	-15.39	63.71	38.24	-0.07	10.15	QP
4	0.20	35.25	-18.46	53.71	25.17	-0.07	10.15	Average
5	0.27	27.38	-23.60	50.98	17.29	-0.07	10.16	Average
6	0.27	42.60	-18.38	60.98	32.51	-0.07	10.16	QP
7	0.65	39.13	-16.87	56.00	28.99	-0.09	10.23	QP
8	0.65	26.95	-19.05	46.00	16.81	-0.09	10.23	Average
9	0.78	27.79	-18.21	46.00	17.64	-0.09	10.24	Average
10	0.78	38.96	-17.04	56.00	28.81	-0.09	10.24	QP
11	1.14	27.45	-18.55	46.00	17.28	-0.10	10.27	Average
12	1.14	37.67	-18.33	56.00	27.50	-0.10	10.27	QP
13	1.34	24.23	-21.77	46.00	14.04	-0.10	10.29	Average
14	1.34	35.10	-20.90	56.00	24.91	-0.10	10.29	QP
15	2.18	38.27	-17.73	56.00	28.04	-0.11	10.34	QP
16	2.18	26.80	-19.20	46.00	16.57	-0.11	10.34	Average
17	2.61	25.40	-30.60	56.00	15.15	-0.11	10.36	QP
18	2.61	18.88	-27.12	46.00	8.63	-0.11	10.36	Average
19	2.76	33.39	-22.61	56.00	23.15	-0.12	10.36	QP
20	2.76	22.18	-23.82	46.00	11.94	-0.12	10.36	Average



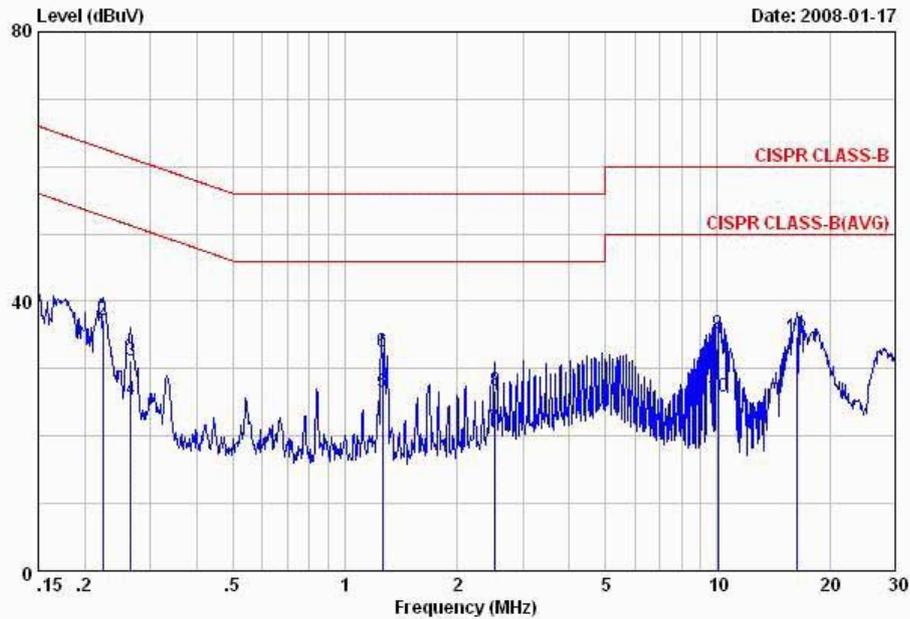
Site : C001-KS
 Condition: CISPR CLASS-B LISN-071001 NEUTRAL
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : C79
 Memo : CDMA 850 Idle+BT Idle+Camera+adaptor

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.40	24.89	-22.97	47.86	14.78	-0.08	10.19	Average
2	0.40	40.36	-17.50	57.86	30.25	-0.08	10.19	QP
3	0.47	39.39	-17.19	56.58	29.27	-0.08	10.20	QP
4	0.47	25.11	-21.47	46.58	14.99	-0.08	10.20	Average
5	0.54	38.04	-17.96	56.00	27.91	-0.08	10.21	QP
6	0.54	17.42	-28.58	46.00	7.29	-0.08	10.21	Average
7	0.57	38.63	-17.37	56.00	28.49	-0.08	10.22	QP
8	0.57	24.87	-21.13	46.00	14.73	-0.08	10.22	Average
9	0.69	27.50	-18.50	46.00	17.35	-0.08	10.23	Average
10	0.69	40.52	-15.48	56.00	30.37	-0.08	10.23	QP
11	1.14	27.07	-18.93	46.00	16.89	-0.09	10.27	Average
12	1.14	40.14	-15.86	56.00	29.96	-0.09	10.27	QP
13	1.27	23.67	-22.33	46.00	13.49	-0.10	10.28	Average
14	1.27	37.12	-18.88	56.00	26.94	-0.10	10.28	QP
15	1.77	37.40	-18.60	56.00	27.19	-0.11	10.32	QP
16	1.77	23.16	-22.84	46.00	12.95	-0.11	10.32	Average
17	2.12	39.15	-16.85	56.00	28.92	-0.11	10.34	QP
18	2.12	23.78	-22.22	46.00	13.55	-0.11	10.34	Average
19	2.53	35.38	-20.62	56.00	25.14	-0.11	10.35	QP
20	2.53	22.70	-23.30	46.00	12.46	-0.11	10.35	Average



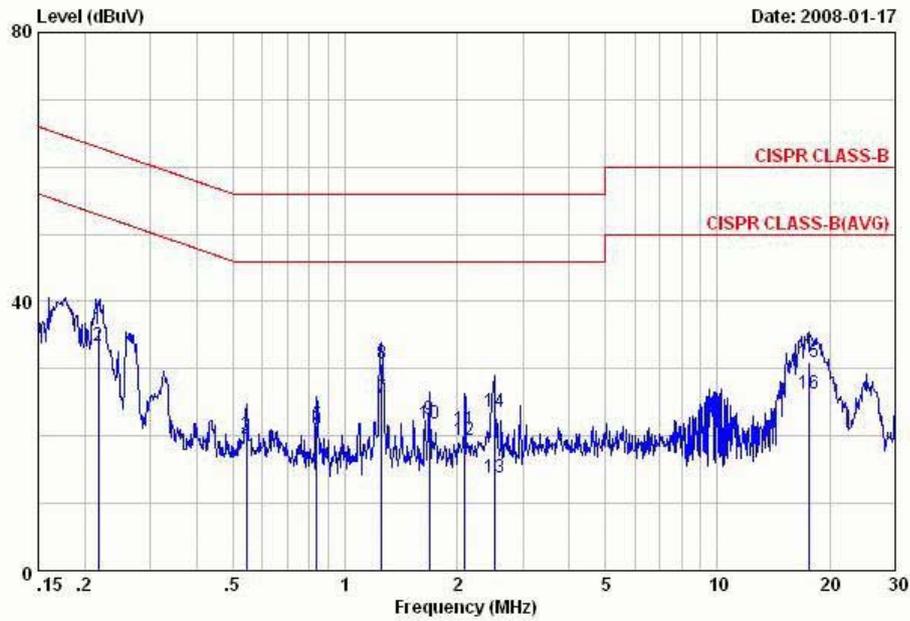
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Enginner : Alex
- Test Mode : Mode 2

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



Site : C001-KS
 Condition: CISPR CLASS-B LISN-071001 LINE
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : C79
 Memo : CDMA 850 Idle+BT Idle+Camera+USB

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.22	35.25	-17.45	52.70	25.17	-0.07	10.15	Average
2	0.22	37.30	-25.40	62.70	27.22	-0.07	10.15	QP
3	0.27	31.23	-30.02	61.25	21.14	-0.07	10.16	QP
4	0.27	25.50	-25.75	51.25	15.41	-0.07	10.16	Average
5	1.26	26.55	-19.45	46.00	16.37	-0.10	10.28	Average
6	1.26	32.43	-23.57	56.00	22.25	-0.10	10.28	QP
7	2.53	21.12	-24.88	46.00	10.88	-0.11	10.35	Average
8	2.53	26.66	-29.34	56.00	16.42	-0.11	10.35	QP
9	10.02	35.32	-24.68	60.00	24.97	-0.11	10.46	QP
10	10.02	25.76	-24.24	50.00	15.41	-0.11	10.46	Average
11	16.40	34.79	-25.21	60.00	24.25	0.01	10.53	QP
12	16.40	34.60	-15.40	50.00	24.06	0.01	10.53	Average



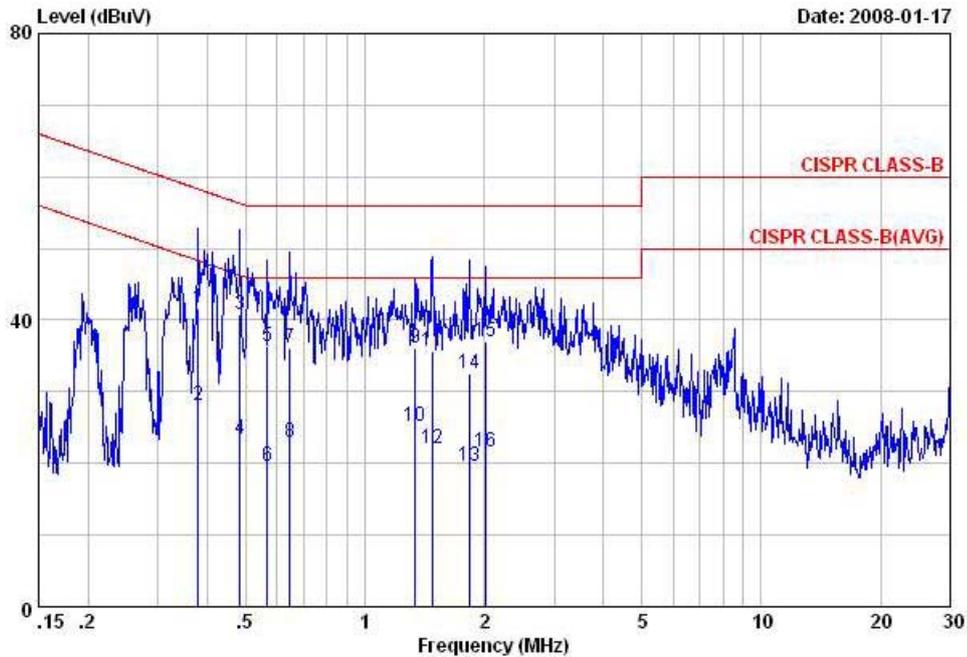
Site : C001-KS
 Condition: CISPR CLASS-B LISN-071001 NEUTRAL
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : C79
 Memo : CDMA 850 Idle+BT Idle+Camera+Usb

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.22	35.85	-27.07	62.92	25.77	-0.07	10.15	QP
2	0.22	33.40	-19.52	52.92	23.32	-0.07	10.15	Average
3	0.54	20.00	-36.00	56.00	9.87	-0.08	10.21	QP
4	0.54	19.06	-26.94	46.00	8.93	-0.08	10.21	Average
5	0.84	21.68	-34.32	56.00	11.52	-0.09	10.25	QP
6	0.84	21.04	-24.96	46.00	10.88	-0.09	10.25	Average
7	1.26	25.55	-20.45	46.00	15.37	-0.10	10.28	Average
8	1.26	30.85	-25.15	56.00	20.67	-0.10	10.28	QP
9	1.68	22.46	-33.54	56.00	12.26	-0.11	10.31	QP
10	1.68	21.94	-24.06	46.00	11.74	-0.11	10.31	Average
11	2.10	21.03	-34.97	56.00	10.81	-0.11	10.33	QP
12	2.10	19.40	-26.60	46.00	9.18	-0.11	10.33	Average
13	2.51	13.78	-32.22	46.00	3.54	-0.11	10.35	Average
14	2.51	23.72	-32.28	56.00	13.48	-0.11	10.35	QP
15	17.66	30.92	-29.08	60.00	20.35	0.03	10.54	QP
16	17.66	26.29	-23.71	50.00	15.72	0.03	10.54	Average



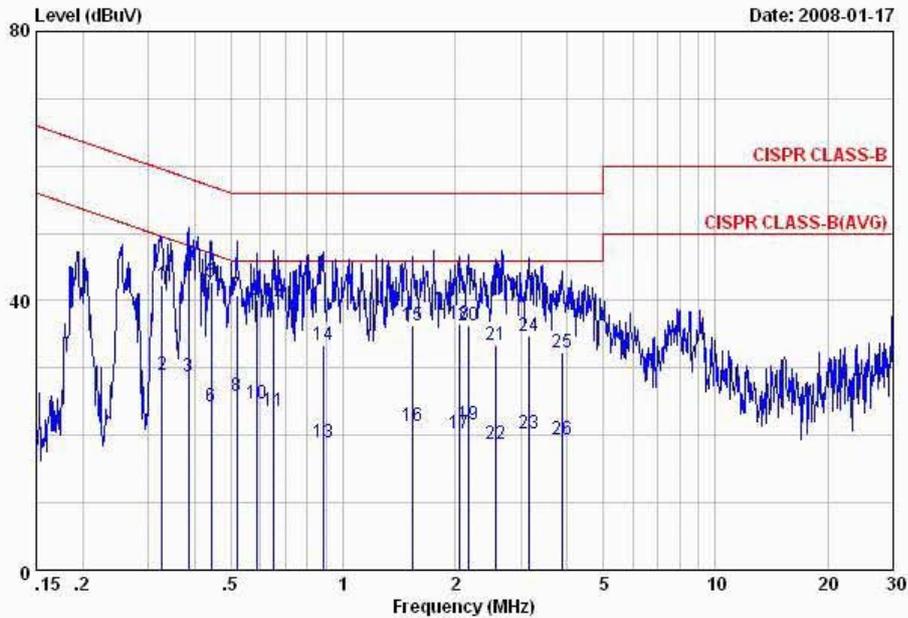
- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Enginner : Alex
- Test Mode : Mode 3

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



Site : C001-KS
 Condition: CISPR CLASS-B LISN-071001 LINE
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : C79
 Memo : CDMA AWS Idle+BT Idle+Camera+Adaptor

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.38	41.61	-16.69	58.30	31.50	-0.08	10.19	QP
2	0.38	28.01	-20.29	48.30	17.90	-0.08	10.19	Average
3	0.48	40.88	-15.39	56.27	30.75	-0.08	10.21	QP
4	0.48	23.34	-22.93	46.27	13.21	-0.08	10.21	Average
5	0.57	36.34	-19.66	56.00	26.20	-0.08	10.22	QP
6	0.57	19.63	-26.37	46.00	9.49	-0.08	10.22	Average
7	0.65	36.09	-19.91	56.00	25.95	-0.09	10.23	QP
8	0.65	22.94	-23.06	46.00	12.80	-0.09	10.23	Average
9	1.34	36.07	-19.93	56.00	25.88	-0.10	10.29	QP
10	1.34	25.23	-20.77	46.00	15.04	-0.10	10.29	Average
11	1.48	35.67	-20.33	56.00	25.48	-0.11	10.30	QP
12	1.48	22.00	-24.00	46.00	11.81	-0.11	10.30	Average
13	1.83	19.58	-26.42	46.00	9.37	-0.11	10.32	Average
14	1.83	32.58	-23.42	56.00	22.37	-0.11	10.32	QP
15	2.01	36.94	-19.06	56.00	26.72	-0.11	10.33	QP
16	2.01	21.62	-24.38	46.00	11.40	-0.11	10.33	Average



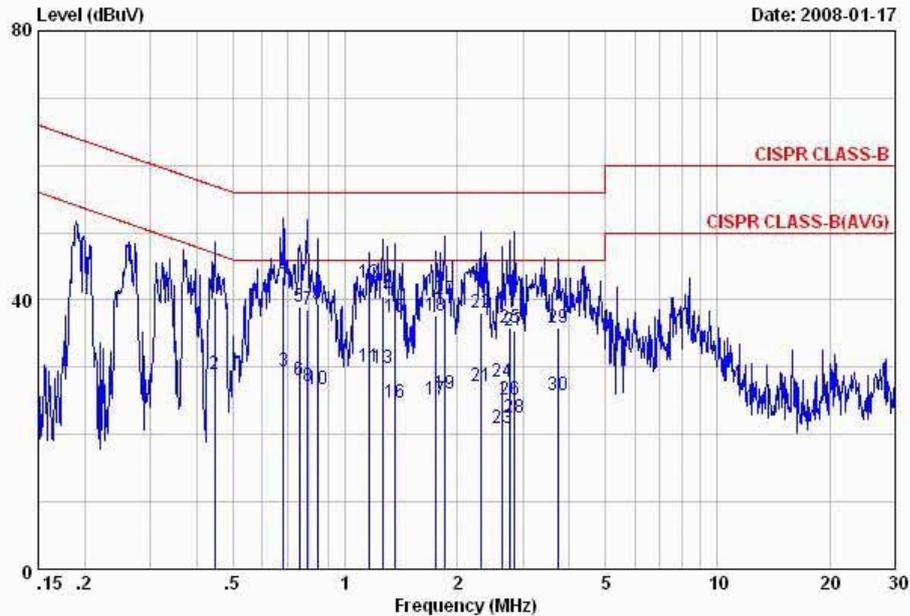
Site : C001-KS
 Condition: CISPR CLASS-B LISN-071001 NEUTRAL
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : C79
 Memo : CDMA AWS Idle+BT Idle+Camera+Adaptor

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.33	42.40	-17.13	59.53	32.30	-0.08	10.18	QP
2	0.33	28.94	-20.59	49.53	18.84	-0.08	10.18	Average
3	0.39	28.71	-19.46	48.17	18.60	-0.08	10.19	Average
4	0.39	43.53	-14.64	58.17	33.42	-0.08	10.19	QP
5	0.44	42.88	-14.14	57.02	32.76	-0.08	10.20	QP
6	0.44	24.25	-22.77	47.02	14.13	-0.08	10.20	Average
7	0.52	40.78	-15.22	56.00	30.65	-0.08	10.21	QP
8	0.52	25.88	-20.12	46.00	15.75	-0.08	10.21	Average
9	0.59	40.15	-15.85	56.00	30.01	-0.08	10.22	QP
10	0.59	24.74	-21.26	46.00	14.60	-0.08	10.22	Average
11	0.65	23.73	-22.27	46.00	13.58	-0.08	10.23	Average
12	0.65	39.95	-16.05	56.00	29.80	-0.08	10.23	QP
13	0.88	19.03	-26.97	46.00	8.87	-0.09	10.25	Average
14	0.88	33.38	-22.62	56.00	23.22	-0.09	10.25	QP
15	1.54	36.33	-19.67	56.00	26.13	-0.10	10.30	QP
16	1.54	21.37	-24.63	46.00	11.17	-0.10	10.30	Average
17	2.04	20.32	-25.68	46.00	10.10	-0.11	10.33	Average
18	2.04	36.59	-19.41	56.00	26.37	-0.11	10.33	QP
19	2.18	21.67	-24.33	46.00	11.44	-0.11	10.34	Average
20	2.18	36.36	-19.64	56.00	26.13	-0.11	10.34	QP
21	2.58	33.42	-22.58	56.00	23.17	-0.11	10.36	QP
22	2.58	18.68	-27.32	46.00	8.43	-0.11	10.36	Average
23	3.16	20.30	-25.70	46.00	10.05	-0.12	10.37	Average
24	3.16	34.80	-21.20	56.00	24.55	-0.12	10.37	QP
25	3.86	32.42	-23.58	56.00	22.16	-0.13	10.39	QP
26	3.86	19.44	-26.56	46.00	9.18	-0.13	10.39	Average



- Temperature : 22~24
- Relative Humidity : 32~35%
- Test Enginner : Alex
- Test Mode : Mode 4

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

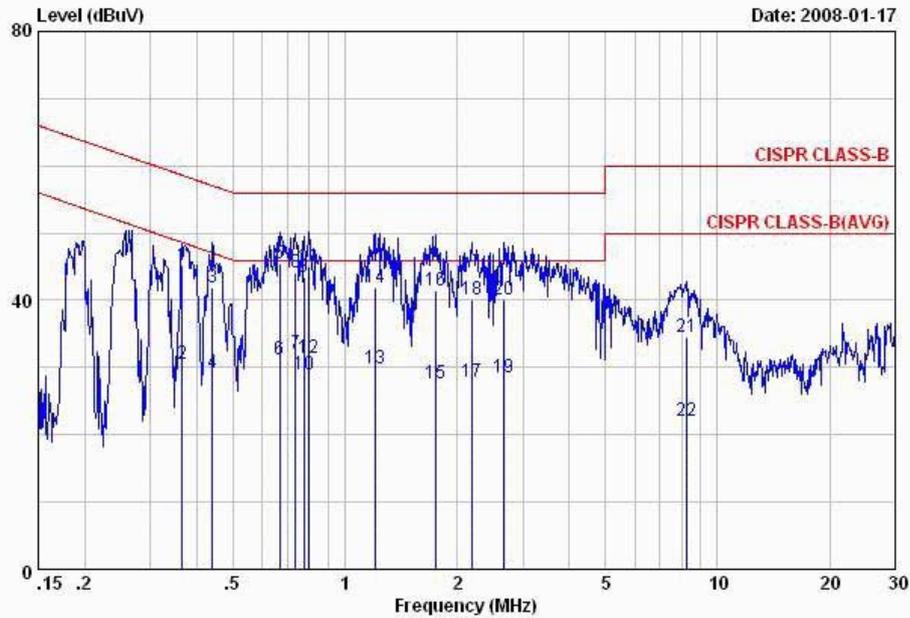


Site : C001-KS
 Condition: CISPR CLASS-B LISN-071001 LINE
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : C79
 Memo : CDMA 1900 Idle+BT Idle+Camera+Adaptor

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.45	40.30	-16.63	56.93	30.18	-0.08	10.20	QP
2	0.45	28.95	-17.98	46.93	18.83	-0.08	10.20	Average
3	0.68	29.41	-16.59	46.00	19.27	-0.09	10.23	Average
4	0.68	43.47	-12.53	56.00	33.33	-0.09	10.23	QP
5	0.75	38.89	-17.11	56.00	28.74	-0.09	10.24	QP
6	0.75	28.08	-17.92	46.00	17.93	-0.09	10.24	Average
7	0.79	38.53	-17.47	56.00	28.38	-0.09	10.24	QP
8	0.79	27.22	-18.78	46.00	17.07	-0.09	10.24	Average
9	0.84	39.55	-16.45	56.00	29.40	-0.10	10.25	QP
10	0.84	26.70	-19.30	46.00	16.55	-0.10	10.25	Average
11	1.17	30.06	-15.94	46.00	19.88	-0.10	10.28	Average
12	1.17	42.55	-13.45	56.00	32.37	-0.10	10.28	QP
13	1.26	29.92	-16.08	46.00	19.74	-0.10	10.28	Average
14	1.26	40.52	-15.48	56.00	30.34	-0.10	10.28	QP
15	1.36	37.41	-18.59	56.00	27.22	-0.10	10.29	QP
16	1.36	24.71	-21.29	46.00	14.52	-0.10	10.29	Average
17	1.75	25.23	-20.77	46.00	15.02	-0.11	10.32	Average
18	1.75	37.74	-18.26	56.00	27.53	-0.11	10.32	QP
19	1.86	26.01	-19.99	46.00	15.80	-0.11	10.32	Average
20	1.86	40.18	-15.82	56.00	29.97	-0.11	10.32	QP
21	2.31	27.10	-18.90	46.00	16.87	-0.11	10.34	Average
22	2.31	38.02	-17.98	56.00	27.79	-0.11	10.34	QP
23	2.65	21.05	-24.95	46.00	10.80	-0.11	10.36	Average
24	2.65	27.95	-28.05	56.00	17.70	-0.11	10.36	QP
25	2.78	35.77	-20.23	56.00	25.53	-0.12	10.36	QP
26	2.78	25.13	-20.87	46.00	14.89	-0.12	10.36	Average



	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
27	2.85	35.46	-20.54	56.00	25.22	-0.12	10.36	QP
28	2.85	22.40	-23.60	46.00	12.16	-0.12	10.36	Average
29	3.74	35.78	-20.22	56.00	25.53	-0.13	10.38	QP
30	3.74	25.82	-20.18	46.00	15.57	-0.13	10.38	Average



Site : C001-KS
 Condition: CISPR CLASS-B LISN-071001 NEUTRAL
 EUT : Mobile Phone
 Power : 120Vac/60Hz
 Model : C79
 Memo : CDMA 1900 Idle+BT Idle+Camera+Adaptor

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
		dBuV	dB	dBuV	dBuV	dB	dB	
1	0.37	45.30	-13.31	58.61	35.20	-0.08	10.18	QP
2	0.37	30.43	-18.18	48.61	20.33	-0.08	10.18	Average
3	0.44	41.99	-15.08	57.07	31.87	-0.08	10.20	QP
4	0.44	29.16	-17.91	47.07	19.04	-0.08	10.20	Average
5	0.67	45.54	-10.46	56.00	35.39	-0.08	10.23	QP
6	0.67	31.15	-14.85	46.00	21.00	-0.08	10.23	Average
7	0.74	32.09	-13.91	46.00	21.93	-0.08	10.24	Average
8	0.74	44.17	-11.83	56.00	34.01	-0.08	10.24	QP
9	0.78	43.40	-12.60	56.00	33.24	-0.08	10.24	QP
10	0.78	29.05	-16.95	46.00	18.89	-0.08	10.24	Average
11	0.80	44.97	-11.03	56.00	34.81	-0.08	10.24	QP
12	0.80	31.45	-14.55	46.00	21.29	-0.08	10.24	Average
13	1.20	29.88	-16.12	46.00	19.69	-0.09	10.28	Average
14	1.20	41.91	-14.09	56.00	31.72	-0.09	10.28	QP
15	1.75	27.71	-18.29	46.00	17.50	-0.11	10.32	Average
16	1.75	41.49	-14.51	56.00	31.28	-0.11	10.32	QP
17	2.19	27.76	-18.24	46.00	17.53	-0.11	10.34	Average
18	2.19	40.04	-15.96	56.00	29.81	-0.11	10.34	QP
19	2.68	28.56	-17.44	46.00	18.31	-0.11	10.36	Average
20	2.68	40.16	-15.84	56.00	29.91	-0.11	10.36	QP
21	8.28	34.53	-25.47	60.00	24.22	-0.13	10.44	QP
22	8.28	22.02	-27.98	50.00	11.71	-0.13	10.44	Average



5.9 Radiated Emission Measurement

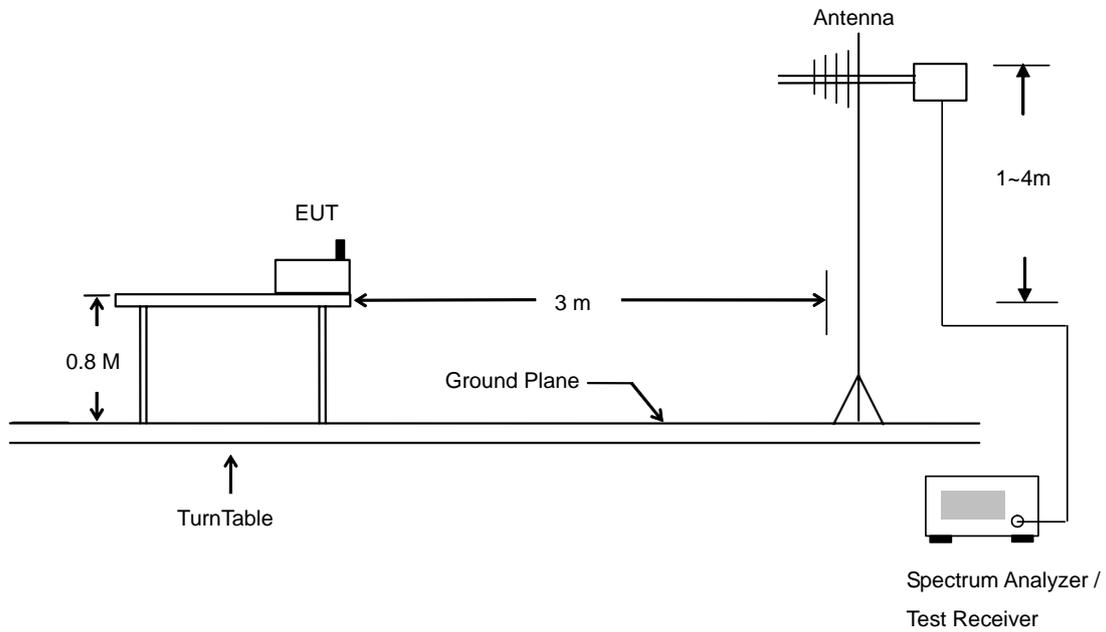
5.9.1 Measuring Instruments

As described in chapter 6 of this Report.

5.9.2 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.

5.9.3 Typical Test Setup Layout of Radiated Emission

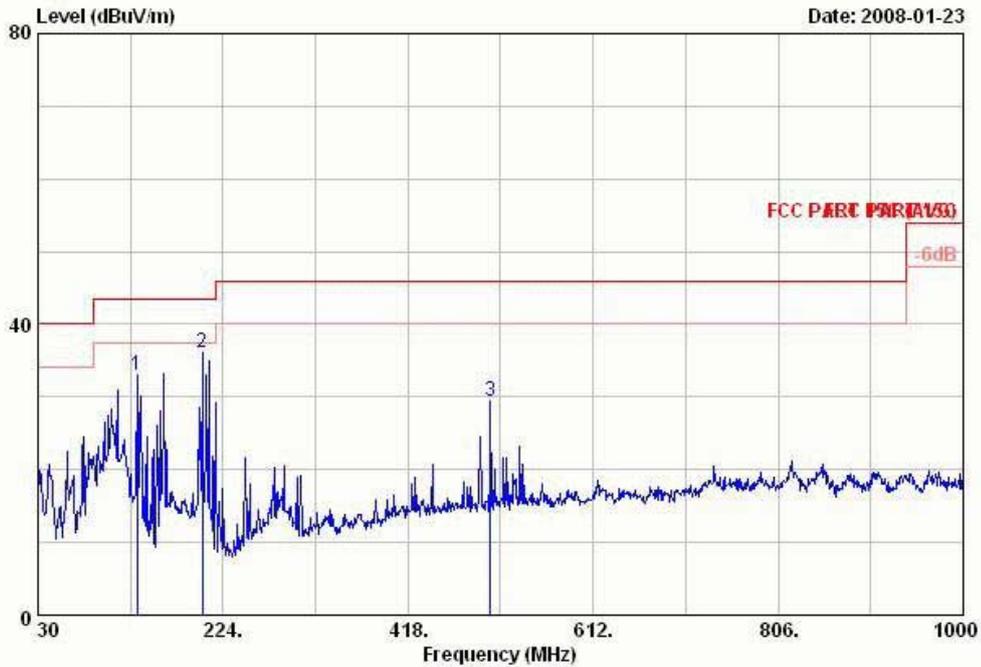




5.9.4 Test Data

- Temperature : 25~26°C
- Relating Humidity : 52~54%
- Test Enginner : Andrew
- Test Mode : Mode 1
- Polarization : Horizontal (30MHz-1GHz)

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



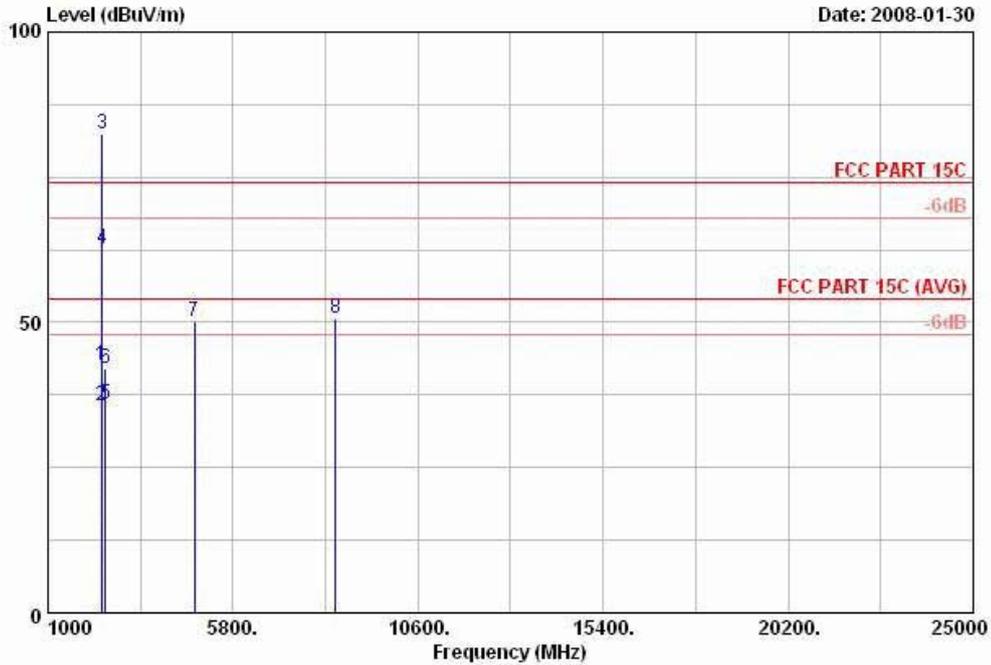
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF ANT-070906 HORIZONTAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH00 DH5 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	133.95	33.07	-10.43	43.50	49.14	11.40	0.54	28.01	---	Peak
2	202.26	36.14	-7.36	43.50	54.56	8.93	0.66	28.01	---	Peak
3	504.40	29.33	-16.67	46.00	39.36	17.30	1.06	28.39	---	Peak



- Polarization : Horizontal (1GHz-25GHz)

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



Site : 03CH01-KS
 Condition: FCC PART 15C 3m HF ANT-070911 HORIZONTAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH00 DH5 Link mode

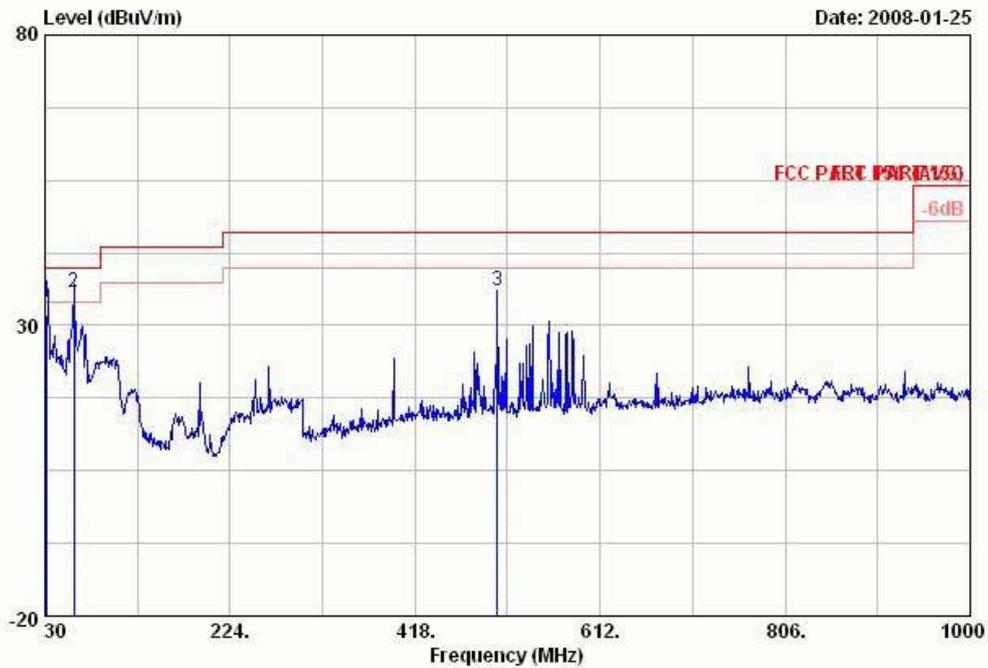
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2390.00	42.74	-31.26	74.00	42.74	31.93	3.25	35.18	---	---	Peak
2	2390.00	35.68	-18.32	54.00	35.68	31.93	3.25	35.18	100	6	Average
3 X	2402.00	82.46			82.46	31.93	3.25	35.18	---	---	Peak
4 X	2402.00	62.64			62.64	31.93	3.25	35.18	100	6	Average
5	2483.50	36.06	-17.94	54.00	35.73	32.24	3.29	35.20	100	6	Average
6	2483.50	42.11	-31.89	74.00	41.78	32.24	3.29	35.20	---	---	Peak
7	4806.00	50.26	-23.74	74.00	46.71	34.00	4.59	35.04	---	---	Peak
8	8466.00	50.63	-23.37	74.00	43.30	35.91	7.02	35.60	---	---	Peak

Remark: #3 and #4 are Fundamental Signals



- Polarization : Vertical (30MHz-1GHz)

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



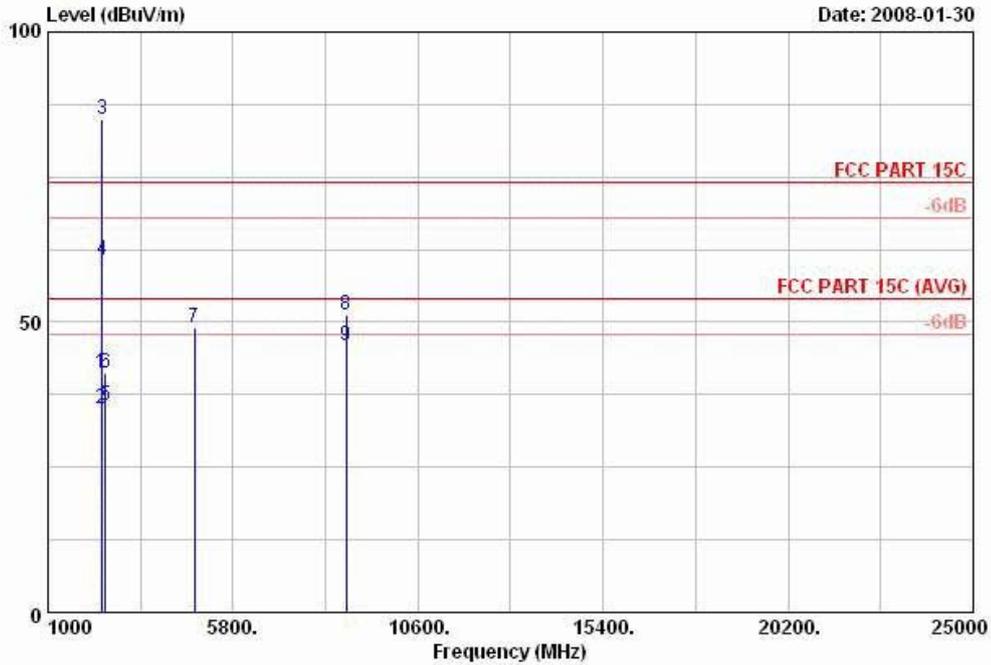
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF ANT-070906 VERTICAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH00 DH5 Link mode

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	31.08	31.75	-8.25	40.00	43.21	16.75	0.22	28.43	100	360	QP
2	59.97	35.67	-4.33	40.00	58.45	5.30	0.39	28.47	100	275	QP
3	504.40	36.00	-10.00	46.00	46.03	17.30	1.06	28.39	---	---	Peak



- Polarization : Vertical (1GHz-25GHz)

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



Site : 03CH01-KS
 Condition: FCC PART 15C 3m HF ANT-070911 VERTICAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH00

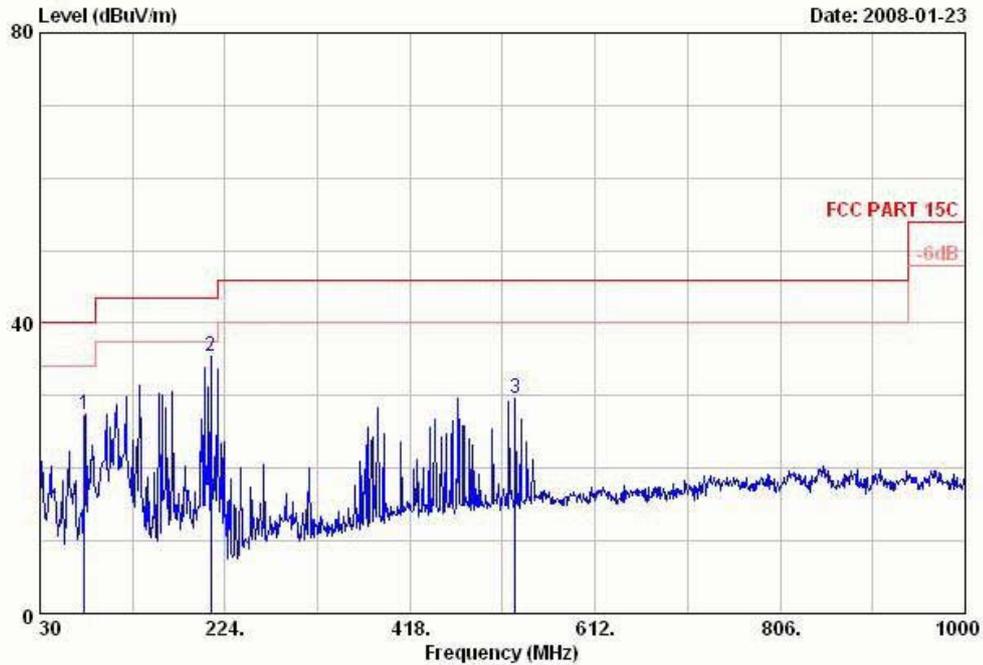
	Freq MHz	Level dBuV/m	DH5 Link mode		ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark	
			Over Limit	Limit Line							
1	2390.00	41.20	-32.80	74.00	41.20	31.93	3.25	35.18	---	---	Peak
2	2390.00	35.19	-18.81	54.00	35.19	31.93	3.25	35.18	100	117	Average
3 X	2402.00	85.00			85.00	31.93	3.25	35.18	---	---	Peak
4 X	2402.00	60.73			60.73	31.93	3.25	35.18	100	117	Average
5	2483.50	35.62	-18.38	54.00	35.29	32.24	3.29	35.20	100	117	Average
6	2483.50	41.18	-32.82	74.00	40.85	32.24	3.29	35.20	---	---	Peak
7	4803.00	48.95	-25.05	74.00	45.40	34.00	4.59	35.04	---	---	Peak
8	8727.00	51.15	-22.85	74.00	43.46	36.08	7.30	35.69	---	---	Peak
9	8727.00	45.83	-8.17	54.00	38.14	36.08	7.30	35.69	---	---	Average

Remark: #3 and #4 are Fundamental Signals



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

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



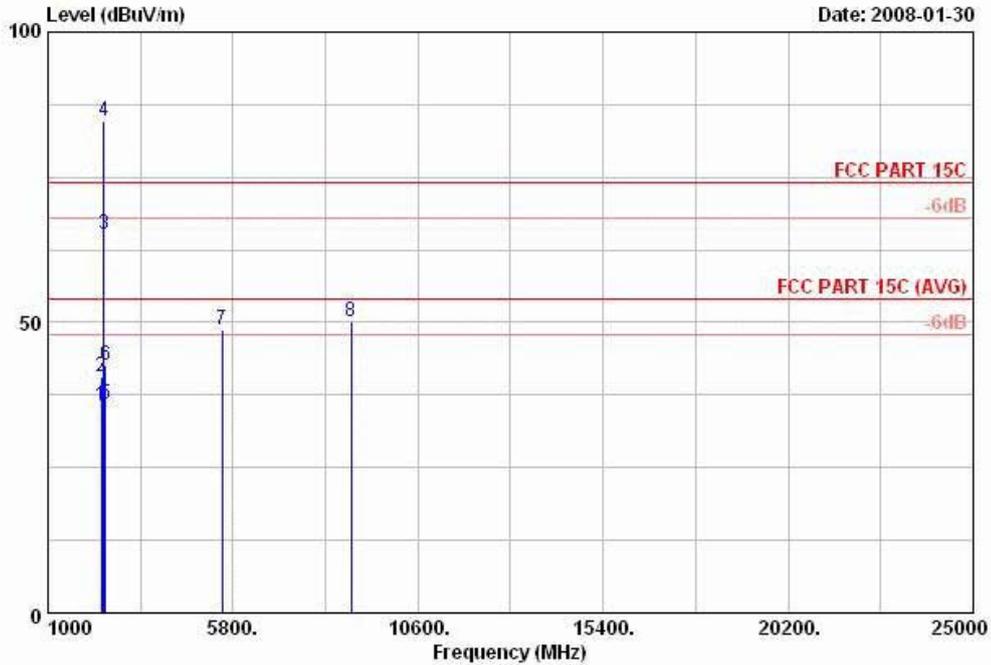
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF ANT-070906 HORIZONTAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH39 DH5 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	76.71	27.32	-12.68	40.00	48.36	6.50	0.43	27.97	---	Peak
2	209.28	35.41	-8.09	43.50	54.22	8.55	0.67	28.03	---	Peak
3	528.20	29.73	-16.27	46.00	39.51	17.61	1.09	28.48	---	Peak



- Polarization : Horizontal (1GHz-25GHz)

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



Site : 03CH01-KS
 Condition: FCC PART 15C 3m HF ANT-070911 HORIZONTAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH39 DH5 Link mode

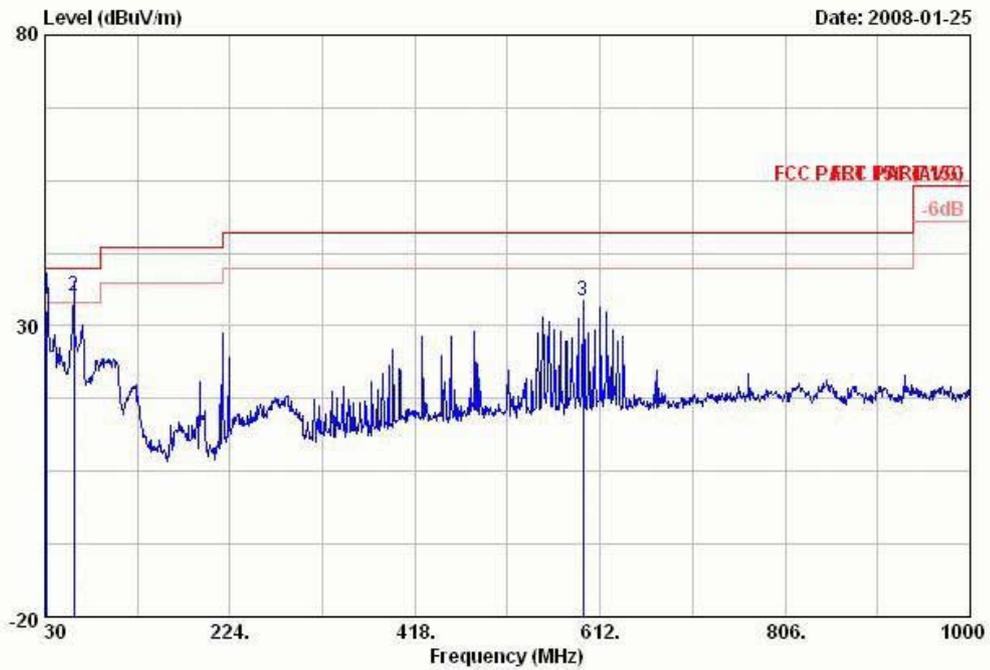
	Freq	Level	Over Limit	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	Loss	Factor	Pos	Pos	
					dB/m	dB	dB	cm	deg	
1	2390.00	35.54	-18.46	54.00	35.54	31.93	3.25	35.18	100	82 Average
2	2390.00	40.78	-33.22	74.00	40.78	31.93	3.25	35.18	---	Peak
3 X	2441.00	65.19			64.98	32.13	3.27	35.19	100	82 Average
4 X	2442.00	84.81			84.60	32.13	3.27	35.19	---	Peak
5	2483.50	35.98	-18.02	54.00	35.65	32.24	3.29	35.20	100	82 Average
6	2483.50	42.52	-31.48	74.00	42.19	32.24	3.29	35.20	---	Peak
7	5529.00	48.68	-25.32	74.00	43.86	34.71	4.91	34.80	---	Peak
8	8859.00	50.26	-23.74	74.00	42.34	36.19	7.47	35.74	---	Peak

Remark: #3and #4 are Fundamental Signals



- Polarization : Vertical (30MHz-1GHz)

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



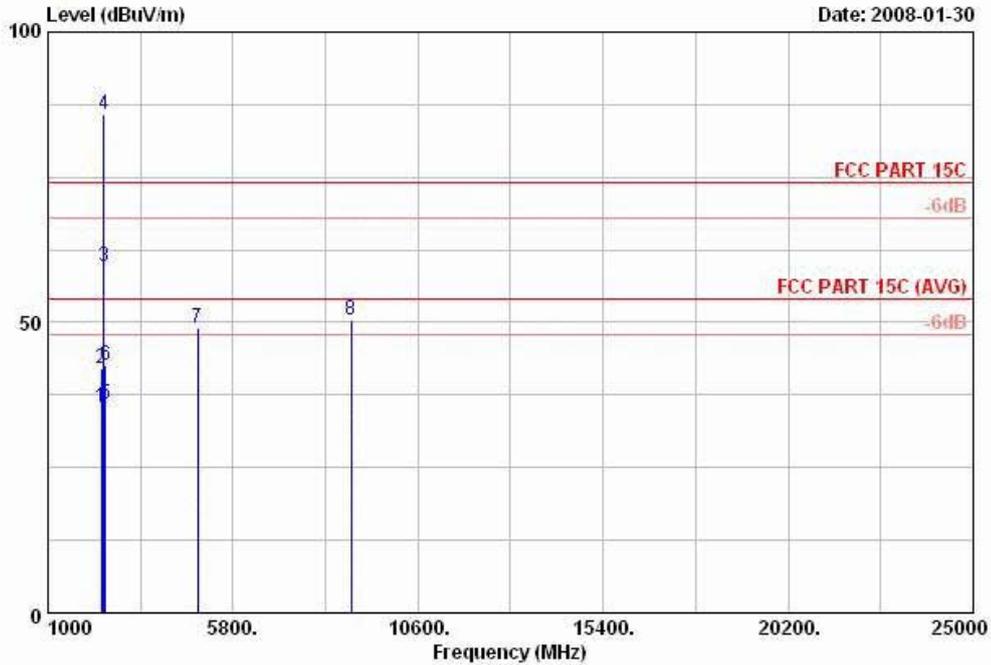
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF ANT-070906 VERTICAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH39 DH5 Link mode

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	31.08	32.66	-7.34	40.00	44.12	16.75	0.22	28.43	100	360	QP
2	59.97	35.25	-4.75	40.00	58.03	5.30	0.39	28.47	100	284	QP
3	594.00	34.34	-11.66	46.00	43.45	18.55	1.15	28.81	---	---	Peak



- Polarization : Vertical (1GHz-25GHz)

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



Site : 03CH01-KS
 Condition: FCC PART 15C 3m HF ANT-070911 VERTICAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH39 DH5 Link mode

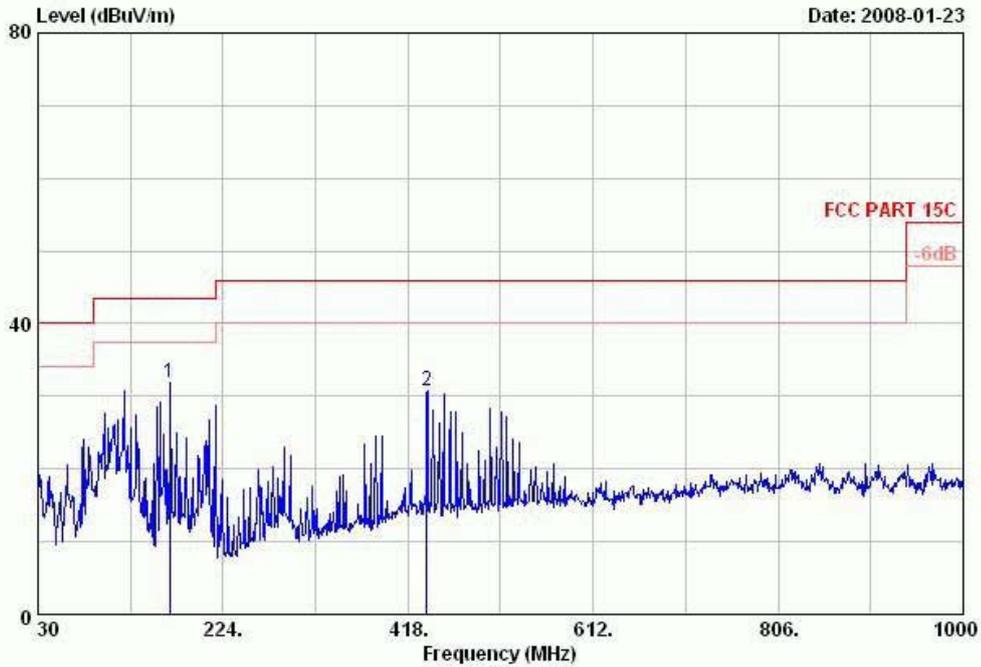
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2390.00	35.50	-18.50	54.00	35.50	31.93	3.25	35.18	100	52	Average
2	2390.00	42.07	-31.93	74.00	42.07	31.93	3.25	35.18	---	---	Peak
3 X	2441.00	59.75			59.54	32.13	3.27	35.19	100	52	Average
4 X	2442.00	85.70			85.49	32.13	3.27	35.19	---	---	Peak
5	2483.50	35.90	-18.10	54.00	35.57	32.24	3.29	35.20	100	52	Average
6	2483.50	42.64	-31.36	74.00	42.31	32.24	3.29	35.20	---	---	Peak
7	4881.00	49.01	-24.99	74.00	45.37	34.04	4.62	35.02	---	---	Peak
8	8871.00	50.54	-23.46	74.00	42.60	36.21	7.49	35.76	---	---	Peak

Remark: #3 and #4 are Fundamental Signals



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

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



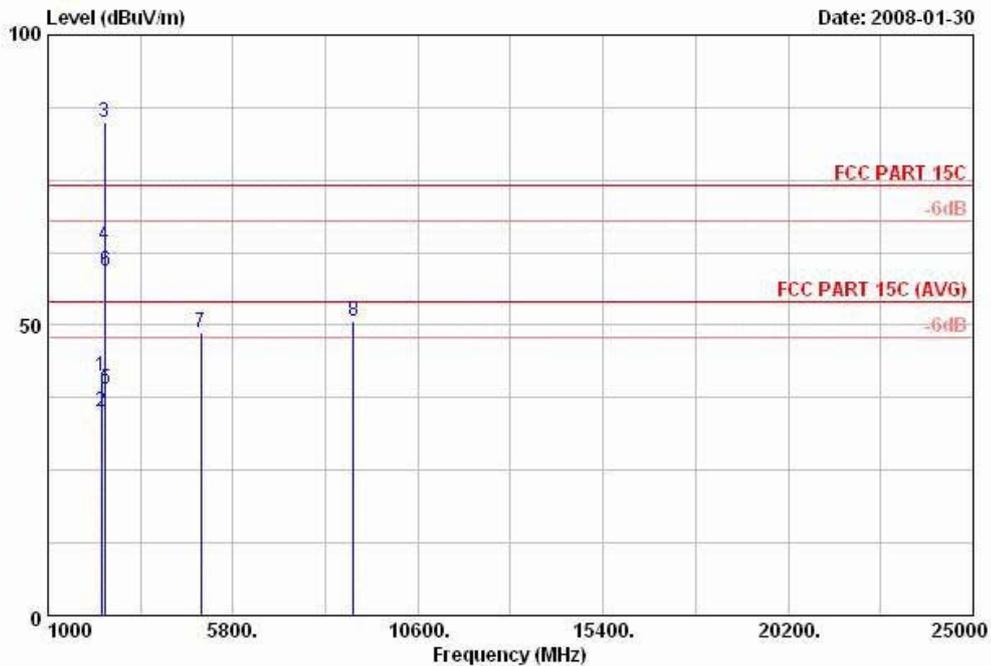
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF ANT-070906 HORIZONTAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH78 DH5 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	167.97	31.97	-11.53	43.50	50.11	9.26	0.61	28.01	---	Peak
2	437.90	30.71	-15.29	46.00	41.81	16.32	0.98	28.40	---	Peak



- Polarization : Horizontal (1GHz-25GHz)

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



Site : 03CH01-KS
 Condition: FCC PART 15C 3m HF ANT-070911 HORIZONTAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH78 DH5 Link mode

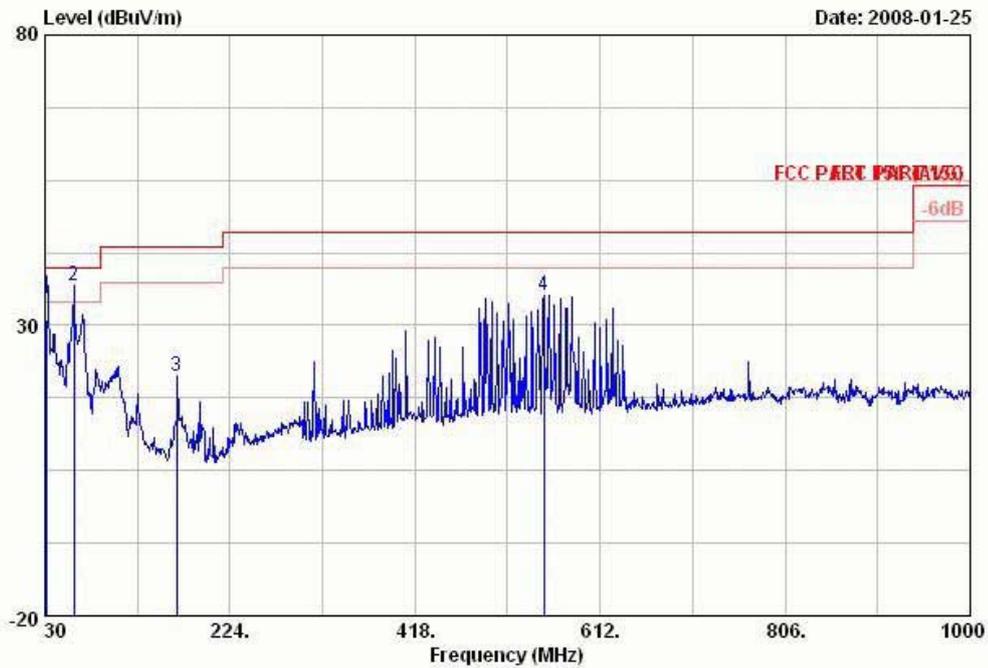
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor	Pos	Pos	
					dBuV	dB/m	dB	dB	cm	deg	
1	2390.00	41.31	-32.69	74.00	41.31	31.93	3.25	35.18	---	---	Peak
2	2390.00	35.09	-18.91	54.00	35.09	31.93	3.25	35.18	100	142	Average
3 X	2480.00	84.94			84.61	32.24	3.29	35.20	---	---	Peak
4 X	2480.00	63.91			63.58	32.24	3.29	35.20	100	142	Average
5	2483.50	39.07	-14.93	54.00	38.74	32.24	3.29	35.20	100	142	Average
6	2483.50	59.28	-14.72	74.00	58.95	32.24	3.29	35.20	---	---	Peak
7	4959.00	48.77	-25.23	74.00	45.04	34.08	4.66	35.01	---	---	Peak
8	8916.00	50.59	-23.41	74.00	42.57	36.24	7.54	35.76	---	---	Peak

Remark: #3 and #4 are Fundamental Signals



- Polarization : Vertical (30MHz-1GHz)

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



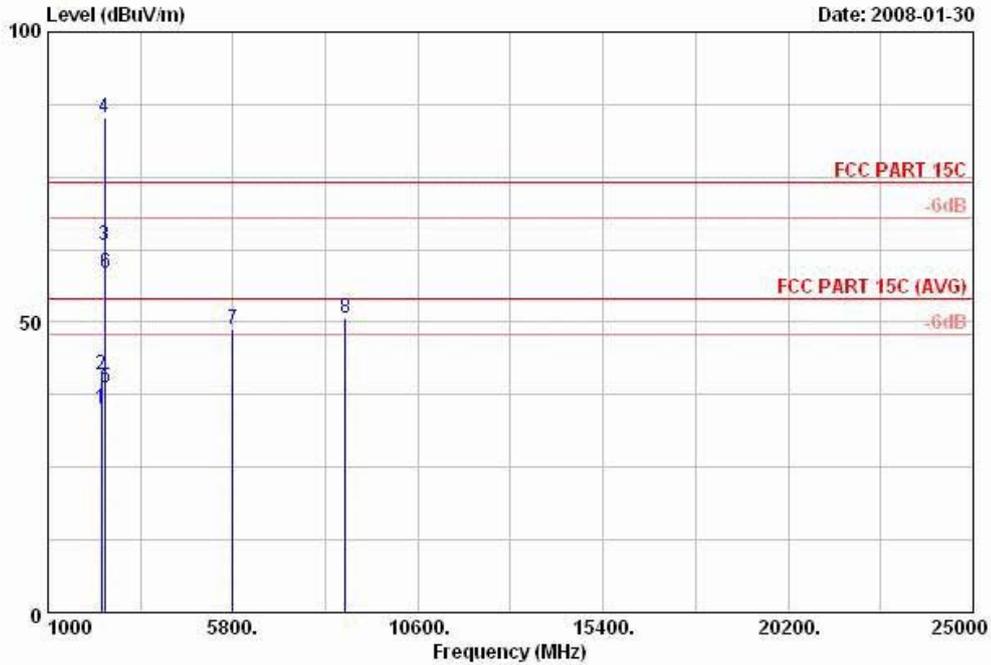
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF ANT-070906 VERTICAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH78 DH5 Link mode

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	Loss	Factor	Pos	Pos	
						dB	dB	cm	deg	
1	31.08	30.87	-9.13	40.00	42.33	0.22	28.43	100	355	QP
2	59.97	36.72	-3.28	40.00	59.50	0.39	28.47	---	---	Peak
3	167.97	21.17	-22.33	43.50	39.84	0.61	28.54	---	---	Peak
4	552.70	35.10	-10.90	46.00	44.16	1.12	28.62	---	---	Peak



- Polarization : Vertical (1GHz-25GHz)

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



Site : 03CH01-KS
 Condition: FCC PART 15C 3m HF ANT-070911 VERTICAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH78 DH5 Link mode

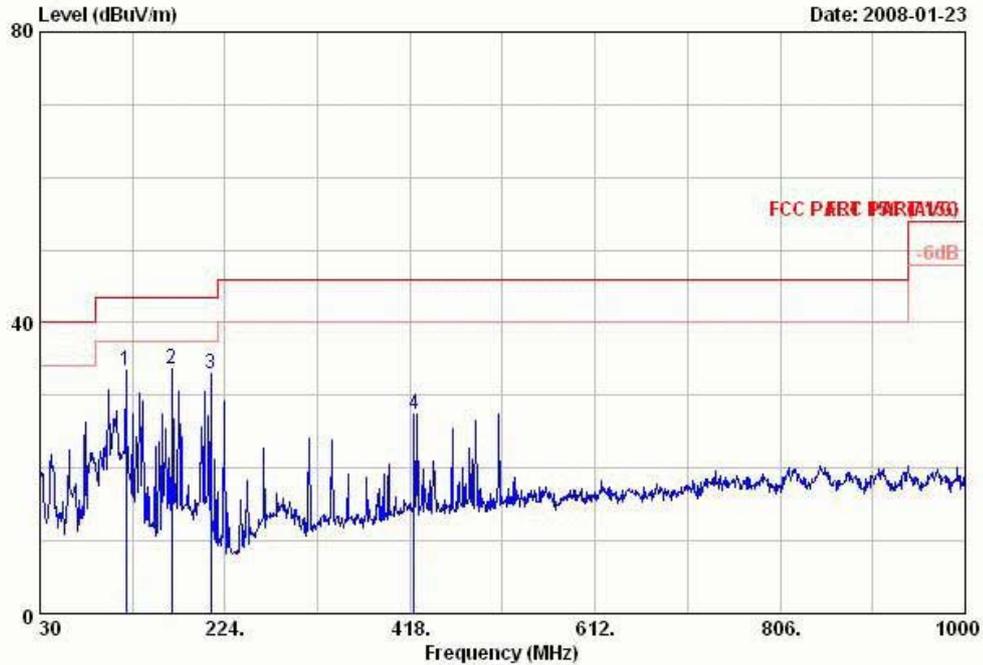
	Freq	Level	Over	Limit	Line	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2390.00	35.11	-18.89	54.00	35.11	31.93	3.25	35.18	100	119	Average
2	2390.00	40.86	-33.14	74.00	40.86	31.93	3.25	35.18	---	---	Peak
3 X	2480.00	63.23			62.90	32.24	3.29	35.20	100	119	Average
4 X	2480.00	85.17			84.84	32.24	3.29	35.20	---	---	Peak
5	2483.50	38.84	-15.16	54.00	38.51	32.24	3.29	35.20	100	119	Average
6	2483.50	58.50	-15.50	74.00	58.17	32.24	3.29	35.20	---	---	Peak
7	5784.00	48.64	-25.36	74.00	43.47	34.92	5.05	34.80	---	---	Peak
8	8724.00	50.73	-23.27	74.00	43.07	36.07	7.28	35.69	---	---	Peak

Remark: #3 and #4 are Fundamental Signals



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

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



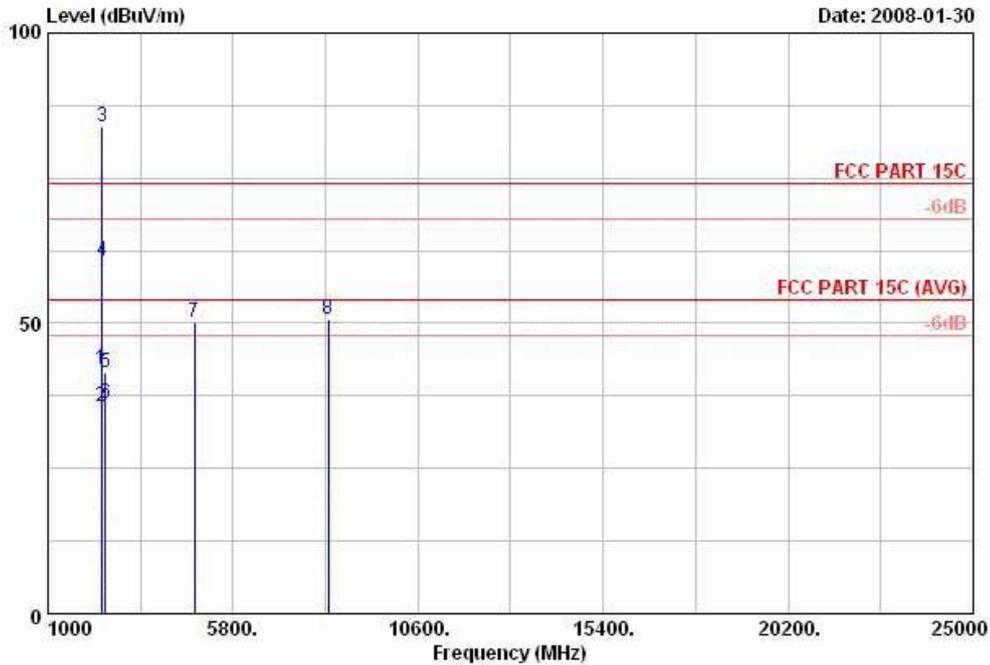
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF ANT-070906 HORIZONTAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH00 2Mbps DH5 Link mode

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	119.91	33.44	-10.06	43.50	49.12	11.80	0.53	28.01	---	---	Peak
2	168.24	33.69	-9.81	43.50	51.83	9.26	0.61	28.01	---	---	Peak
3	209.28	33.00	-10.50	43.50	51.81	8.55	0.67	28.03	---	---	Peak
4	421.80	27.49	-18.51	46.00	38.38	16.55	0.97	28.41	---	---	Peak



- Polarization : Horizontal (1GHz-25GHz)

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



Site : 03CH01-KS
 Condition: FCC PART 15C 3m HF ANT-070911 HORIZONTAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH00 2Mbps DH5 Link mode

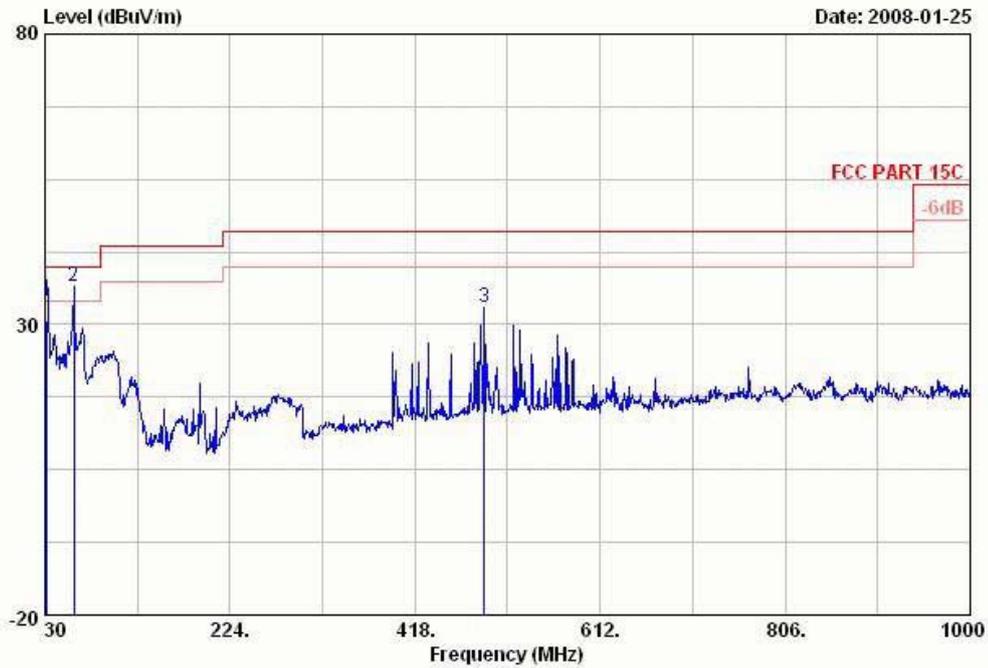
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2390.00	41.97	-32.03	74.00	41.97	31.93	3.25	35.18	---	---	Peak
2	2390.00	35.76	-18.24	54.00	35.76	31.93	3.25	35.18	100	150	Average
3	2402.00	83.72			83.72	31.93	3.25	35.18	---	---	Peak
4	2402.00	60.69			60.69	31.93	3.25	35.18	100	150	Average
5	2483.50	41.56	-32.44	74.00	41.23	32.24	3.29	35.20	---	---	Peak
6	2483.50	36.20	-17.80	54.00	35.87	32.24	3.29	35.20	100	150	Average
7	4806.00	50.02	-23.98	74.00	46.47	34.00	4.59	35.04	---	---	Peak
8	8262.00	50.56	-23.44	74.00	43.38	35.95	6.83	35.60	---	---	Peak

Remark: #3 and #4 are Fundamental Signals



- Polarization : Vertical (30MHz-1GHz)

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



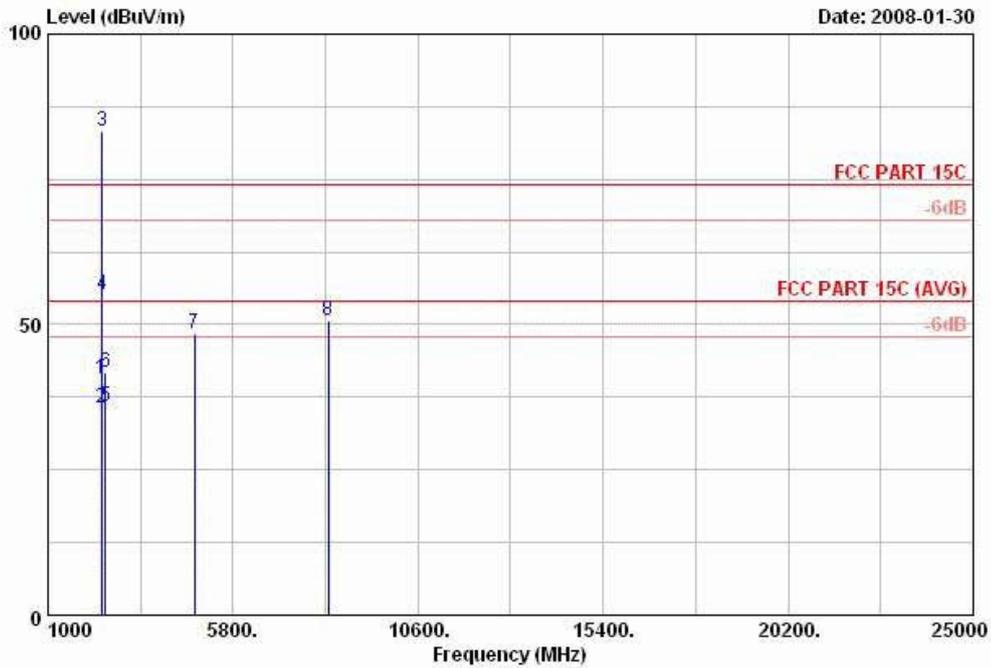
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF ANT-070906 VERTICAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH00 2Mbps DH5 Link mode

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	31.08	30.67	-9.33	40.00	42.13	16.75	0.22	28.43	100	290 OP
2	59.97	36.57	-3.43	40.00	59.35	5.30	0.39	28.47	---	Peak
3	490.40	32.93	-13.07	46.00	60.27	0.00	1.04	28.38	---	Peak



- Polarization : Vertical (1GHz-25GHz)

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



Site : 03CH01-KS
 Condition: FCC PART 15C 3m HF ANT-070911 VERTICAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH00 2Mbps DH5 Link Mode

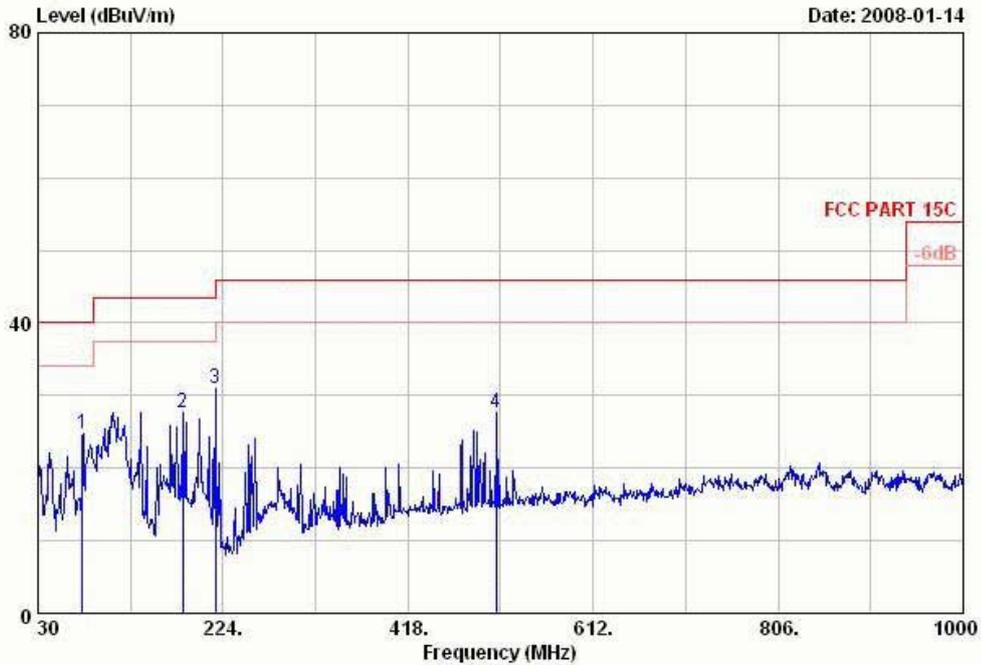
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2390.00	40.53	-33.47	74.00	40.53	31.93	3.25	35.18	---	---	Peak
2	2390.00	35.60	-18.40	54.00	35.60	31.93	3.25	35.18	100	127	Average
3 X	2402.00	83.17			83.17	31.93	3.25	35.18	---	---	Peak
4 X	2402.00	55.17			55.17	31.93	3.25	35.18	100	127	Average
5	2483.50	36.07	-17.93	54.00	35.74	32.24	3.29	35.20	100	127	Average
6	2483.50	41.80	-32.20	74.00	41.47	32.24	3.29	35.20	---	---	Peak
7	4806.00	48.57	-25.43	74.00	45.02	34.00	4.59	35.04	---	---	Peak
8	8262.00	50.73	-23.27	74.00	43.55	35.95	6.83	35.60	---	---	Peak

Remark: #3 and #4 are Fundamental Signals



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

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



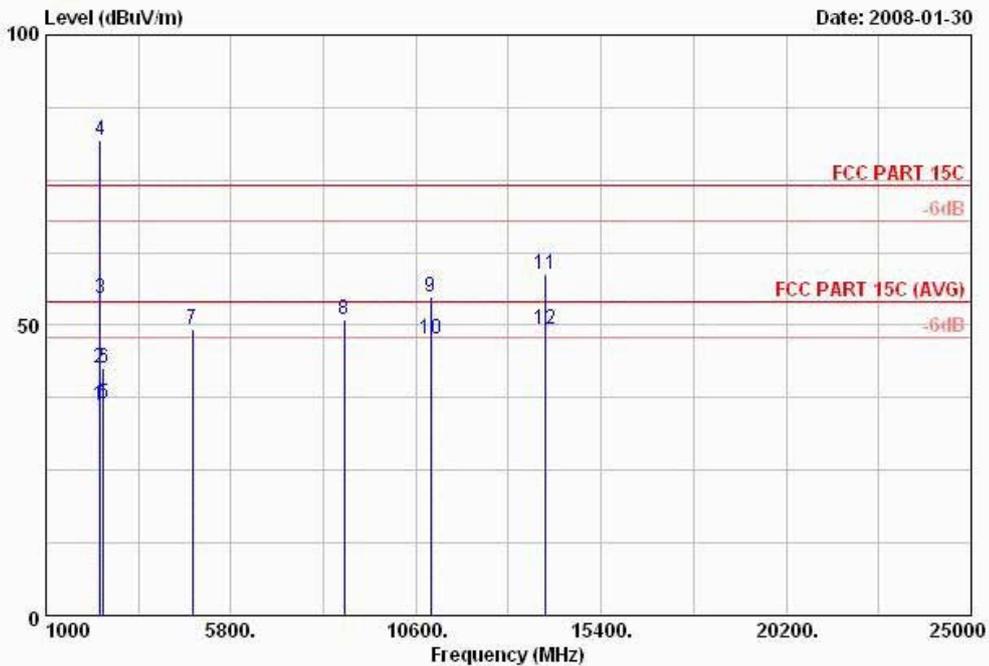
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF ANT-070906 HORIZONTAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH00 3Mbps DHS Link Mode

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	76.71	24.72	-15.28	40.00	45.76	6.50	0.43	27.97	---	Peak
2	181.74	27.59	-15.91	43.50	46.56	8.40	0.64	28.01	---	Peak
3	216.30	31.08	-14.92	46.00	50.09	8.35	0.69	28.05	---	Peak
4	510.70	27.52	-18.48	46.00	37.37	17.50	1.06	28.41	---	Peak



- Polarization : Horizontal (1GHz-25GHz)

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



Site : 03CH01-KS
 Condition: FCC PART 15C 3m HF ANT-070911 HORIZONTAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH00 3Mbps DH5 Link Mode

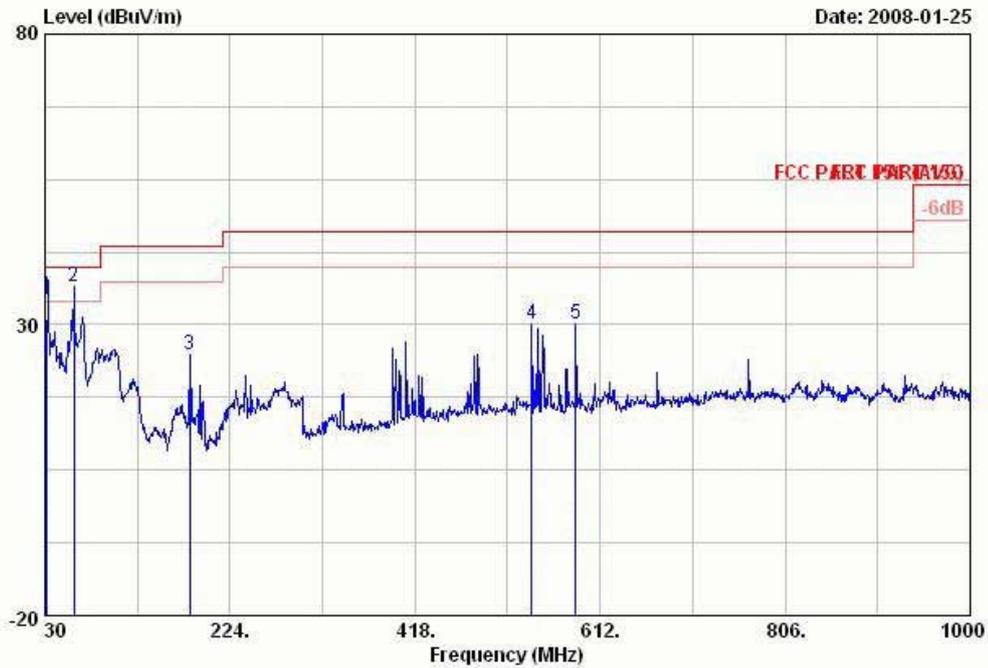
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2390.00	36.18	-17.82	54.00	36.18	31.93	3.25	35.18	100	15	Average
2	2390.00	42.65	-31.35	74.00	42.65	31.93	3.25	35.18	---	---	Peak
3 X	2402.00	54.65			54.65	31.93	3.25	35.18	100	15	Average
4 X	2402.00	81.93			81.93	31.93	3.25	35.18	---	---	Peak
5	2483.50	36.46	-17.54	54.00	36.13	32.24	3.29	35.20	100	15	Average
6	2483.50	42.68	-31.32	74.00	42.35	32.24	3.29	35.20	---	---	Peak
7	4806.00	49.43	-24.57	74.00	45.88	34.00	4.59	35.04	---	---	Peak
8	8739.00	50.86	-23.14	74.00	43.17	36.08	7.30	35.69	---	---	Peak
9	10971.00	54.85	-19.15	74.00	43.76	37.89	8.31	35.11	---	---	Peak
10	10971.00	47.57	-6.43	54.00	36.48	37.89	8.31	35.11	---	---	Average
11	13941.00	58.67	-15.33	74.00	44.41	39.07	8.66	33.47	---	---	Peak
12 !	13941.00	49.36	-4.64	54.00	35.10	39.07	8.66	33.47	---	---	Average

Remark: #3 and #4 are Fundamental Signals



- Polarization : Vertical (30MHz-1GHz)

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



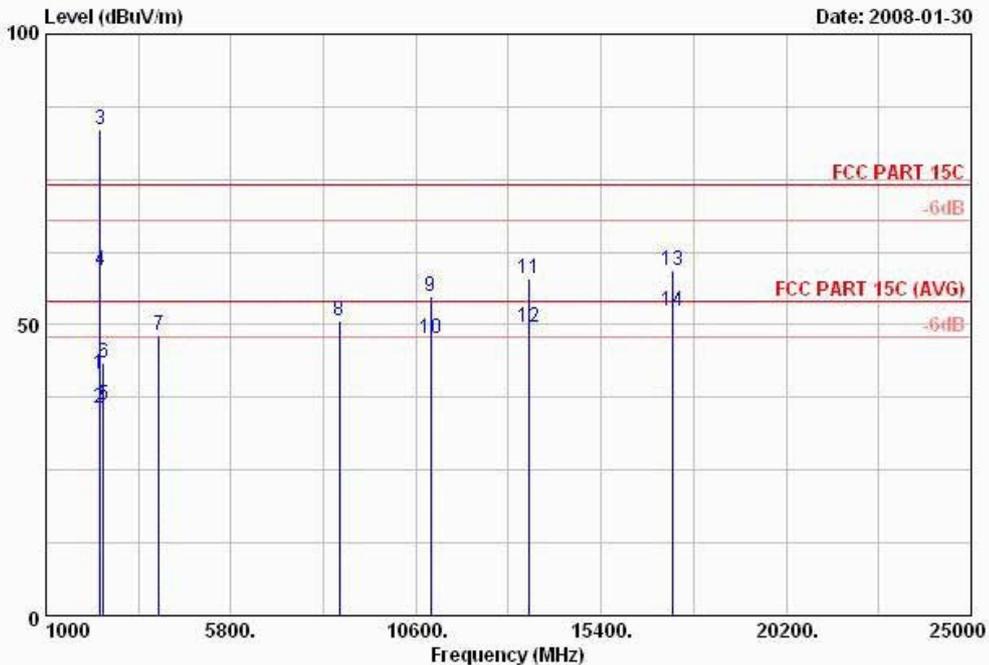
Site : 03CH01-KS
 Condition: FCC PART 15C 3m LF ANT-070906 VERTICAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH00 3Mbps DH5 Link Mode

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	31.62	31.11	-8.89	40.00	42.56	16.75	0.23	28.43	100	360	QP
2	59.97	36.51	-3.49	40.00	59.29	5.30	0.39	28.47	---	---	Peak
3	181.74	24.83	-18.67	43.50	44.35	8.40	0.64	28.56	---	---	Peak
4	540.10	30.03	-15.97	46.00	39.16	18.30	1.11	28.54	---	---	Peak
5	586.30	30.09	-15.91	46.00	39.23	18.50	1.14	28.78	---	---	Peak



- Polarization : Vertical (1GHz-25GHz)

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



Site : 03CH01-KS
 Condition: FCC PART 15C 3m HF ANT-070911 VERTICAL
 EUT : CDMA 2000 Mobile phone + Bluetooth
 Power : 120Vac / 60Hz
 Model : C79
 Memo : BT CH00 3Mbps DHS Link Mode

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2390.00	41.47	-32.53	74.00	41.47	31.93	3.25	35.18	---	Peak
2	2390.00	35.72	-18.28	54.00	35.72	31.93	3.25	35.18	100	Average
3	2402.00	83.57			83.57	31.93	3.25	35.18	---	Peak
4	2402.00	59.34			59.34	31.93	3.25	35.18	100	Average
5	2483.50	36.22	-17.78	54.00	35.89	32.24	3.29	35.20	100	Average
6	2483.50	43.34	-30.66	74.00	43.01	32.24	3.29	35.20	---	Peak
7	3921.00	48.14	-25.86	74.00	45.36	33.66	4.25	35.13	---	Peak
8	8598.00	50.83	-23.17	74.00	43.36	35.97	7.14	35.64	---	Peak
9	10971.00	54.85	-19.15	74.00	43.76	37.89	8.31	35.11	---	Peak
10	10971.00	47.65	-6.35	54.00	36.56	37.89	8.31	35.11	---	Average
11	13515.00	57.99	-16.01	74.00	43.95	38.81	8.54	33.31	---	Peak
12	13515.00	49.66	-4.34	54.00	35.62	38.81	8.54	33.31	---	Average
13	17235.00	59.39	-14.61	74.00	43.16	41.72	8.81	34.30	---	Peak
14	17235.00	52.34	-1.66	54.00	36.11	41.72	8.81	34.30	---	Average

Remark: #3 and #4 are Fundamental Signals



5.10 Antenna Requirements

5.10.1 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.

5.10.2 Antenna Connected Construction

The antenna used in this product is PIFA Antenna without connector for BT and it is considered to meet antenna requirement of FCC.

5.10.3 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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMI Test Receiver	R&S	ESCI	100534	9KHz~2.75GHz	Mar. 15, 2007	Mar. 14, 2008	Conduction (CO01-KS)
LISN	MessTec	AN3016	060103	9kHz~30MHz	Jun. 30, 2006	Jun. 29, 2008	Conduction (CO01-KS)
LISN	MessTec	AN3016	060105	9kHz~30MHz	Jun. 30, 2006	Jun. 29, 2008	Conduction (CO01-KS)
EMI Filter	MPE	250V/32A	N/A	100KHz~10GHz, 100 dB	N/A	N/A	Conduction (CO01-KS)
EMI Filter	MPE	250V/32A	N/A	100KHz~10GHz, 100 dB	N/A	N/A	Conduction (CO01-KS)
DC LISN	EM Test	AN20200	60102	100kHz – 108MHz	Aug. 30, 2007	Aug. 29, 2008	Conduction (CO01-KS)
DC LISN	EM Test	AN20200	60107	100kHz – 108MHz	Aug. 30, 2007	Aug. 29, 2008	Conduction (CO01-KS)
Transient Limiter	Com-Power	LIT-153	531037	150K~30MHz	N/A	N/A	Conduction (CO01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9K~40GHz	Mar. 13, 2007	Mar. 12, 2008	Radiation (03CH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9KHz~2.75GHz	Mar. 15, 2007	Mar. 14, 2008	Radiation (03CH01-KS)
Bilog Antenna	Schaffner	CBL6112D	23182	25MHz~2000MHz	May 22, 2007	May 21, 2008	Radiation (03CH01-KS)
Preamplifier	Agilent	8449B	3008A02370	1G~26.5GHz	Jun. 04, 2007	Jun. 03, 2008	Radiation (03CH01-KS)
Preamplifier	Wireless	FPA6592G	60006	30M~2000MHz	Jul. 24, 2007	Jul. 23, 2008	Radiation (03CH01-KS)
High Pass filter (3GHz)	Microwave Circuits	H3G018G	N/A	N/A	N/A	N/A	Radiation (03CH01-KS)
High Pass filter (7GHz)	Microwave Circuits	H07G18G3	N/A	N/A	N/A	N/A	Radiation (03CH01-KS)
High Pass filter	N/A	WHKX1.5/15 G-10SS	23	N/A	N/A	N/A	Radiation (03CH01-KS)
High Pass filter	N/A	WHKX2.2-18 G-10SS	8	N/A	N/A	N/A	Radiation (03CH01-KS)
Band Reject Filter	WI	WRCG2400/2483-2390/2493-35/10SS	14	N/A	N/A	N/A	Radiation (03CH01-KS)
Band Reject Filter	WI	WRCG1850/1910-1835/1925-40/8	15	N/A	N/A	N/A	Radiation (03CH01-KS)
Band Reject Filter	WI	WRCG824/849-814/859-40/8SS	34	N/A	N/A	N/A	Radiation (03CH01-KS)
Low pass filter (1.2GHz)	N/A	WLKS1200-8SS	2	N/A	N/A	N/A	Radiation (03CH01-KS)
DRG Horn(Medium)	EMCO	3117	75959	1GHz ~ 18GHz	Aug. 17, 2007	Aug. 16, 2008	Radiation (03CH01-KS)



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	0.11	Normal(k=2)	0.06
Antenna factor calibration	0.91	Normal(k=2)	0.46
Cable loss calibration	0.12	Normal(k=2)	0.06
Pre Amplifier Gain calibration	0.15	Normal(k=2)	0.08
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.52	Rectangular	0.88
Mismatch	+0.45/-0.48	U-shaped	0.33
Combined standard uncertainty Uc(y)	1.30		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.60		



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				

The measured result is : y dBuV \pm U dB

for a level of confidence of approximately 95% , ($k= 2$)