

FCC TEST REPORT

for

47 CFR Part 15 Subpart C and IC RSS-210

Equipment : PDA Phone

Trade Name : palm

Model No. : Treo 755p

FCC ID : O8F-895

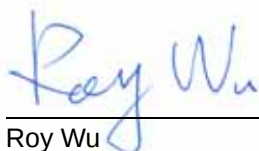
IC ID : 3905A-895

Filing Type : Certification

Applicant : Palm, Inc.

950 W Maude Avenue MS 22L02 Sunnyvale, CA 94085-2801

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- **Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of U.S. government.**
- The data shown in this test report were carried out on Sep. 30, 2006 at **Sporton International Inc. LAB.**
- Report No.: FR711111, Report Version: Rev. 01.



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Rev. 01



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History of this test report

Report Issue Date: Jan. 16, 2007

Report No.	Description



1. General Description of Equipment under Test

1.1. Applicant

Palm, Inc.

950 W Maude Avenue MS 22L02 Sunnyvale, CA 94085-2801

1.2. Manufacturer

Palm, Inc.

950 W Maude Avenue MS 22L02 Sunnyvale, CA 94085-2801

1.3. Basic Description of Equipment under Test

Equipment : PDA Phone
Trade Name : palm
Model No. : Treo 755p
FCC ID : O8F-895
IC ID : 3905A-895
Power Supply Type : Switching
AC Power Cord : AC120V, Wall-mount, 1.8 meter, 2 pin
Adapter 1 : Netbit, DSC-51FL
Adapter 2 : PIE, AD7112
Earphone : Merry
Battery : Formosa

1.4. Feature of Equipment under Test

Product Feature & Specification				
1.	Modulation Type/Data Rate	GFSK		
2.	Frequency Range.	2400 MHz ~ 2483.5 MHz		
3.	Number of Channels	79		
4.	Carrier Frequency of each channel	2402+ n*1 MHz, n= 0~78		
5.	Channel Spacing	1 MHz		
6.	Maximum Output Power to Antenna (Normal condition)	3.42 dBm		
7.	Type of Antenna Connector	N/A		
8.	Antenna Type	Fixed Internal		
9.	Antenna Gain	1 dBi		
10.	Function Type	Transmitter		Transceiver V
11.	DUT Stage	DVT		

2. Test Configuration of Equipment under Test

2.1. Test Manner

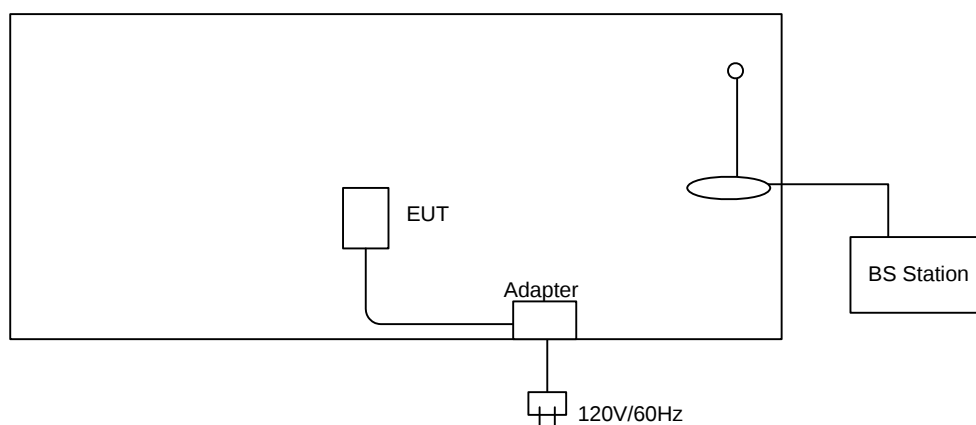
- The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.
- For spurious emission below 1GHz, only one channel of each application was tested because it is not related to channel selection.
- The EUT is programmed to transmit signal continuously for all testings.
- Frequency range investigated: conduction 150 kHz to 30 MHz, radiation 30 MHz to 25000MHz.

2.2. Test Mode

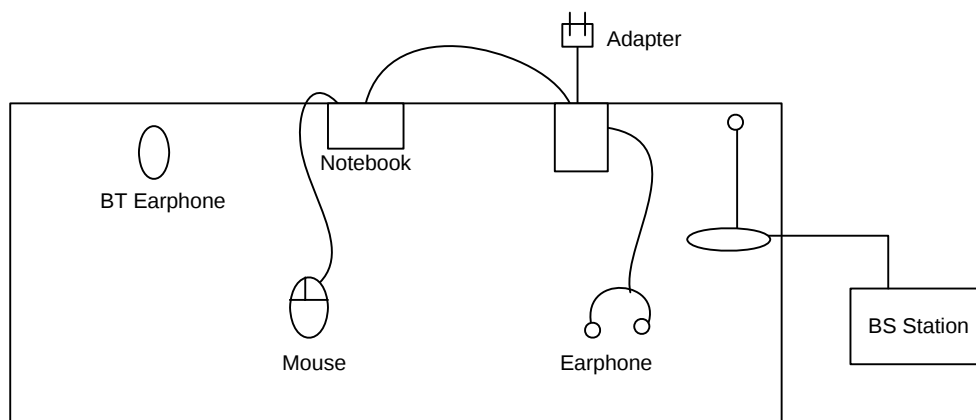
Application	Bluetooth
Radiated Emission	Mode 1: Tx_CH00_2402 MHz
	Mode 2: Tx_CH39_2441 MHz
	Mode 3: Tx_CH78_2480 MHz
Conducted Emission	Mode 1: CDMA2000 Cellular Link Mode + BT Link + H Pattern + USB Link + Earphone 1 + Adapter
	Mode 2: CDMA2000 Cellular Link Mode + BT Link + H Pattern + USB Link + Earphone 2 + Adapter
	Mode 3: CDMA2000 PCS Link Mode + BT Link + H Pattern + USB Link + Earphone 1 + Adapter
	Mode 4: CDMA2000 EVDO Link Mode + BT Link + H Pattern + USB Link + Earphone 1 + Adapter

2.3. Connection Diagram of Test System

<Radiated Emission>



<Conducted Emission>



2.4. Ancillary Equipment List

Item	Equipment	Model No.	Serial No.
1.	BT Base Station (Anritus)	8852A	N/A
2.	Notebook (DELL)	D400	N/A
3.	(USB) Mouse (Micorsoft)	B75-00093	Non-shielded, 1.8 m
4.	Bluetooth Earphone (Engotech)	ET-BH111	N/A
5.	USB Cable		Weave-shielded, 1.5 m
6.	USB Cable		Weave-shielded, 1.6 m



3. RF Utility

The EUT is in BT Link mode with mobile phone for conducted emission or in BT continuous Tx Mode controlled by base station simulator for radiation emission.



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

AC 120V

4.2. Standard for Methods of Measurement

ANSI C63.4-2003

4.3. Test in Compliance with

47 CFR Part 15 Subpart C and IC RSS-210 Issued 6

4.4. Frequency Range Investigated

Conduction: from 150 kHz to 30 MHz

Radiation: from 30 MHz to 25000MHz

4.5. Test Distance

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

5. Report of Measurements and Examinations

5.1. List of Measurements and Examinations

FCC Rule	IC Rule	Description of Test	Result	Section
15.247(a)(1)	A8.1 (2)	Hopping Channel Separation	Pass	5.2
15.247(a)(1)(iii)	A8.1 (4)	Number of Hopping Frequency Used	Pass	5.3
15.247(a)(1)	A8.1 (1)	Hopping Channel Bandwidth	Pass	5.4
15.247(a)(1)(iii)	A8.1 (4)	Dwell Time of Each Frequency	Pass	5.5
15.247(b)(1)	A8.4 (2)	Output Power	Pass	5.6
15.247(c)	A8.5	100kHz Bandwidth of Frequency Band Edges	Pass	5.7
15.207	RSS-Gen 7.2.2	Conducted Emission	Pass	5.8
15.209	2.6	Radiated Emission	Pass	5.9
15.203	A8.4 (6)	Antenna Requirement	Pass	5.10

5.2. Hopping Channel Separation

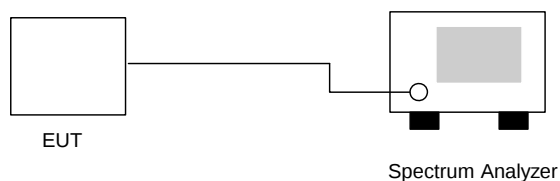
5.2.1. Measuring Instruments :

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 30kHz and VBW to 100kHz.
3. The Hopping Channel Separation is defined as the channel is separated with the next channel.

5.2.3. Test Setup Layout :



5.2.4. Test Result : The spectrum analyzer plots are attached as below

- Temperature: 24°C
- Relative Humidity: 48%
- Test Engineer : James

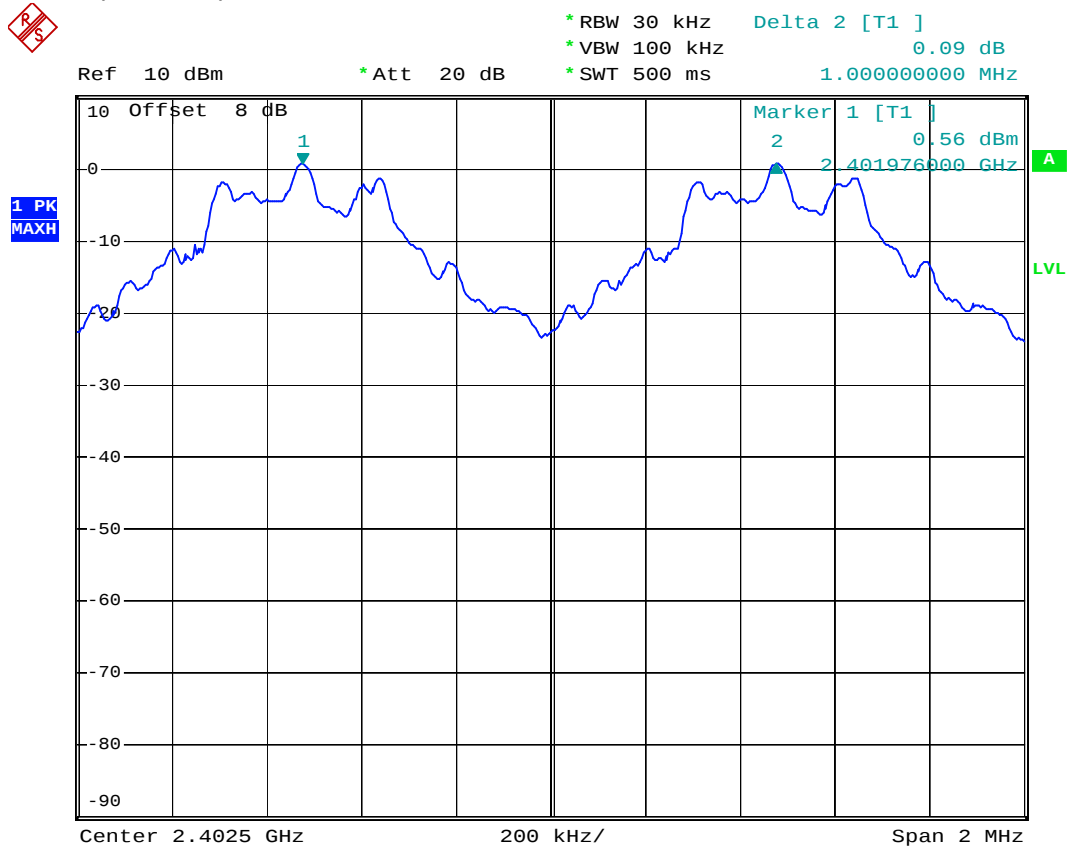
Channel	Frequency (MHz)	Hopping Channel Separation (MHz)	Limits (MHz)	Plot Ref. No.
00	2402	1.000	0.822	Mode 1
39	2441	1.004	0.824	Mode 2
78	2480	1.000	0.880	Mode 3

Remark: Limit is the greater one of 25kHz or the 20dB bandwidth of the hopping channel.



5.2.5 Hopping Channel Separation

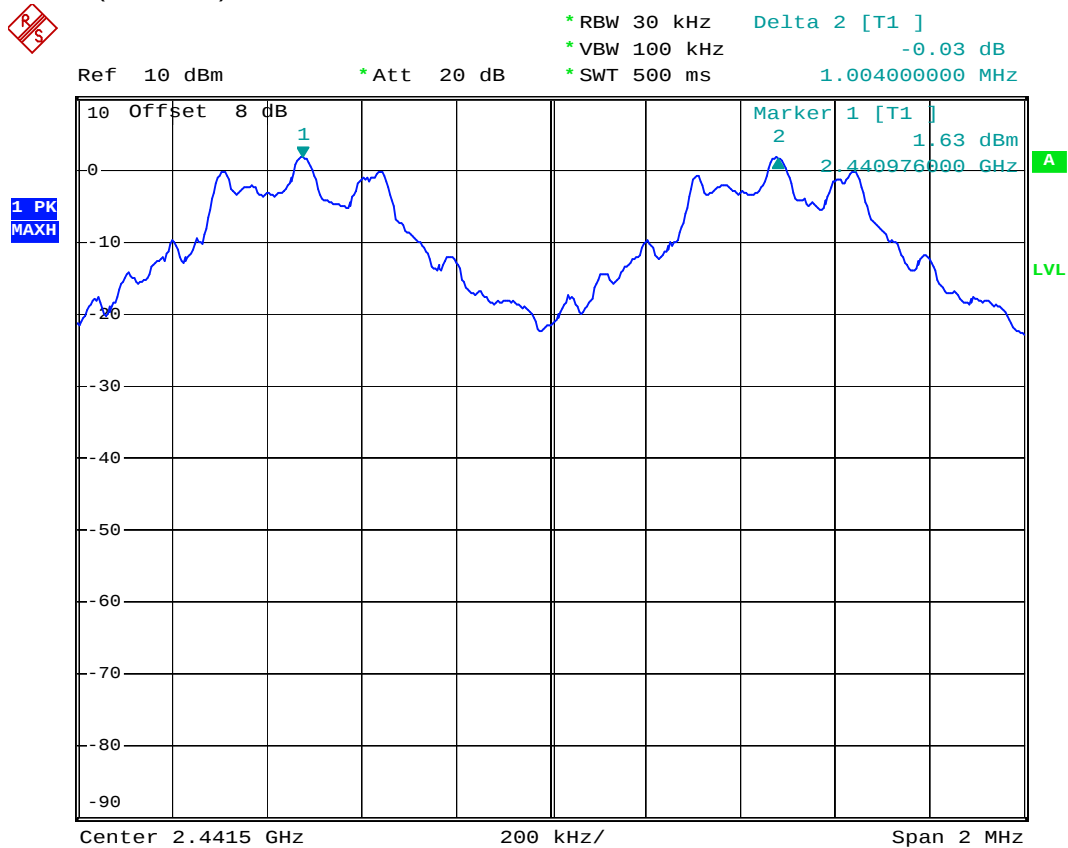
Mode 1: CH00 (2402MHz)



Date: 29.SEP.2006 16:57:54



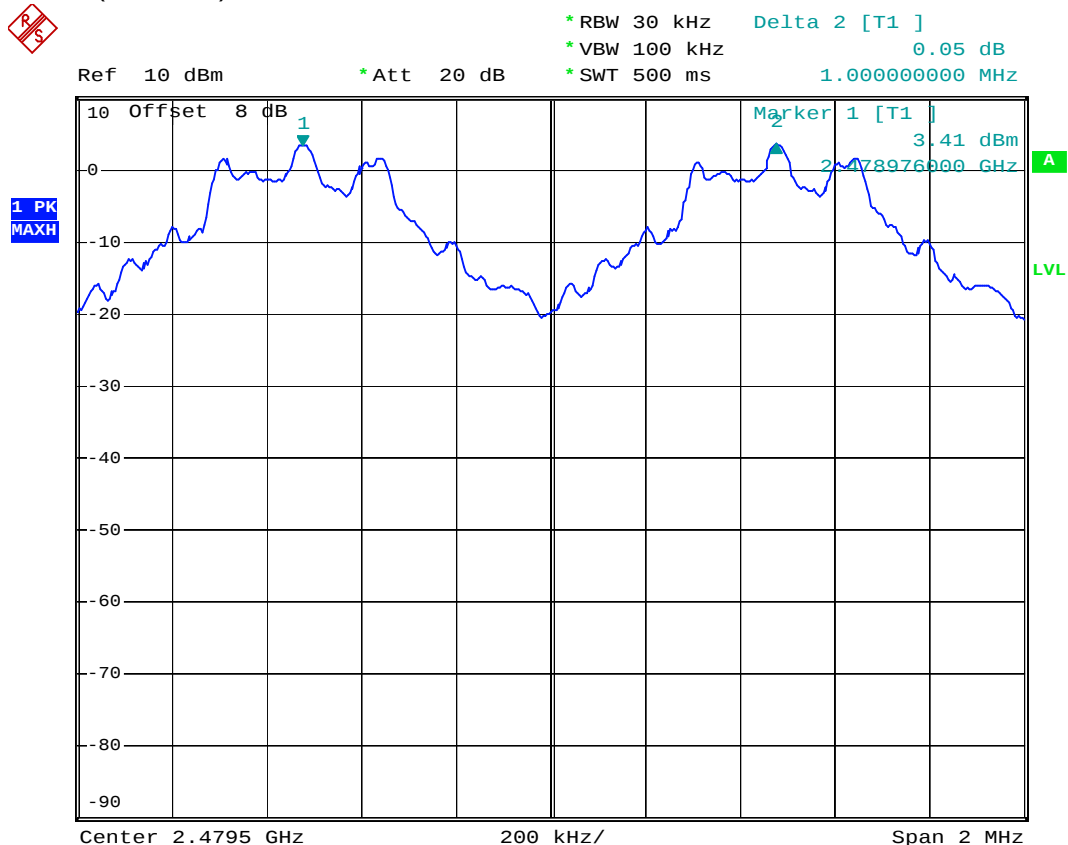
Mode 2: CH39 (2441MHz)



Date: 29.SEP.2006 16:58:29



Mode 3: CH78 (2480MHz)



Date: 29.SEP.2006 16:59:20

5.3. Number of Hopping Frequency

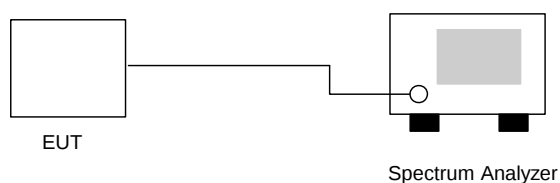
5.3.1. Measuring Instruments :

As described in chapter 6 of this test report.

5.3.2. Test Procedure :

1. The transmitter output was connected to the spectrum analyzer directly.
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.

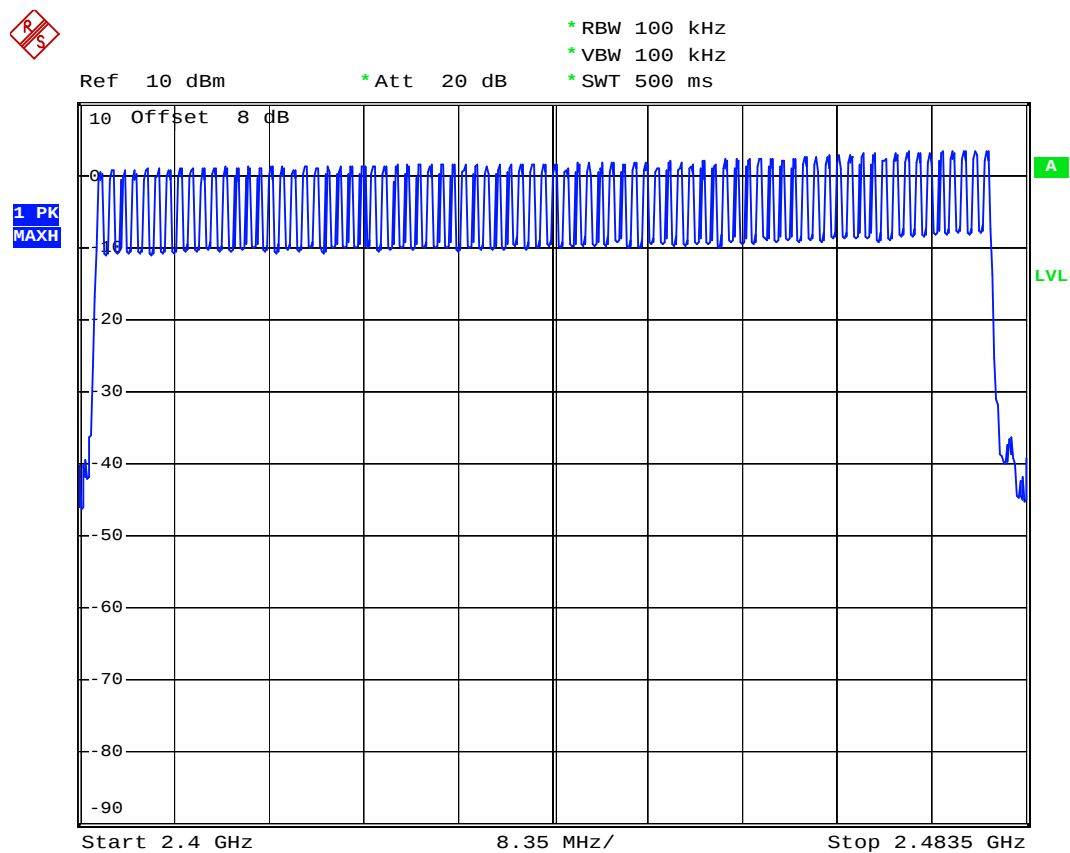
5.3.3. Test Setup Layout :



5.3.4. Test Result : See spectrum analyzer plots below

- Temperature: 24°C
- Relative Humidity: 48%
- Test Engineer : James

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

**5.3.5 Number of Hopping Frequency**

Date: 29.SEP.2006 17:31:11

5.4 Hopping Channel Bandwidth

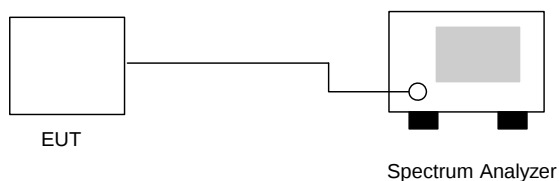
5.4.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.4.2 Test Procedure :

1. The transmitter output was connected to the spectrum analyzer directly.
2. Set RBW of spectrum analyzer to 30kHz and VBW to 300kHz.
3. The Hopping Channel bandwidth is defined as the frequency range where the power is higher than peak power minus 20dB.

5.4.3 Test Setup Layout :



5.4.4 Test Result : See spectrum analyzer plots below

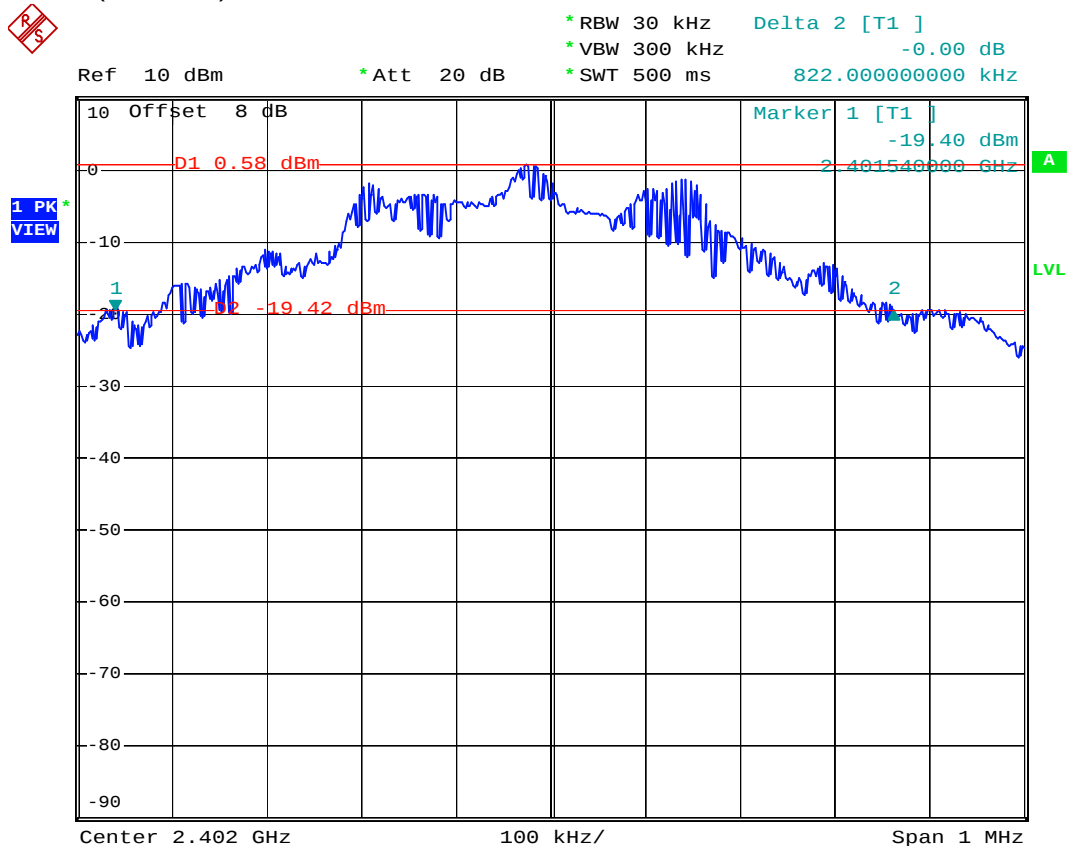
- Temperature: 24°C
- Relative Humidity: 48%
- Test Engineer : James

Channel	Frequency (MHz)	Hopping Channel Bandwidth (MHz)	Limits (MHz)	Plot Ref. No.
00	2402	0.822	1.0	Mode 1
39	2441	0.824	1.0	Mode 2
78	2480	0.880	1.0	Mode 3



5.4.5 Hopping Channel Bandwidth

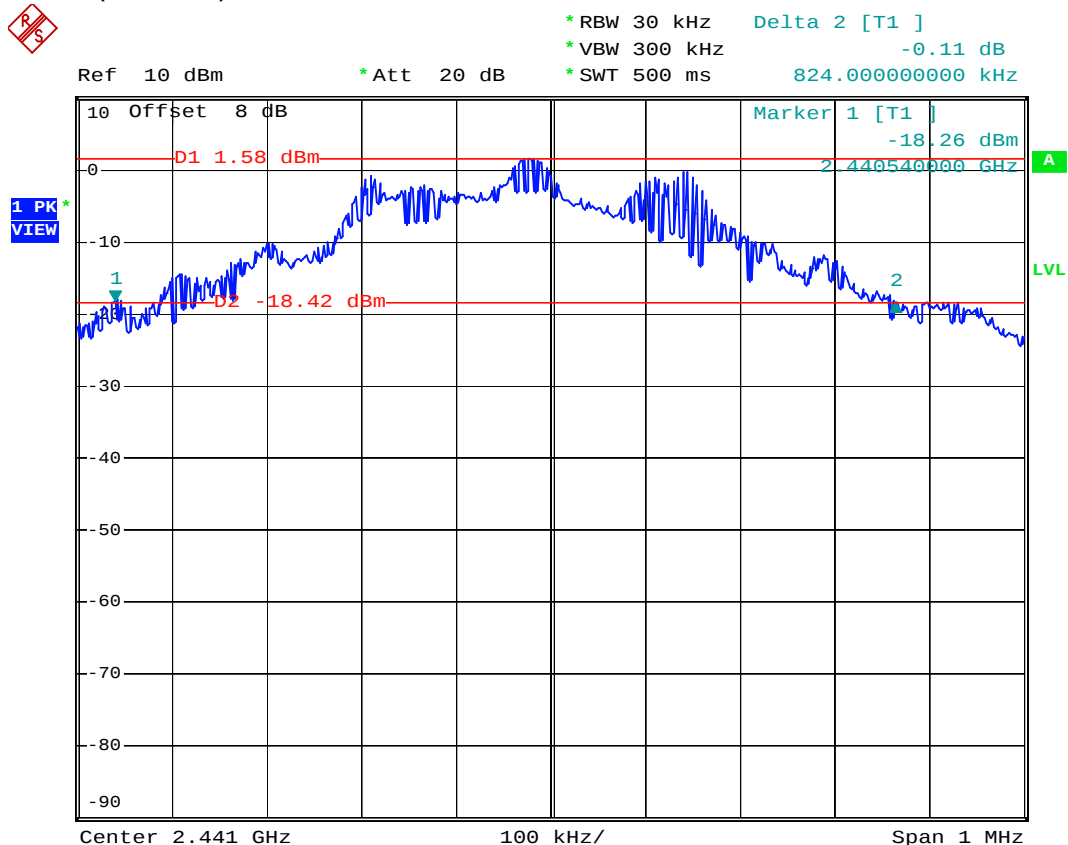
Mode 1: CH00 (2402MHz)



Date: 29.SEP.2006 16:48:22



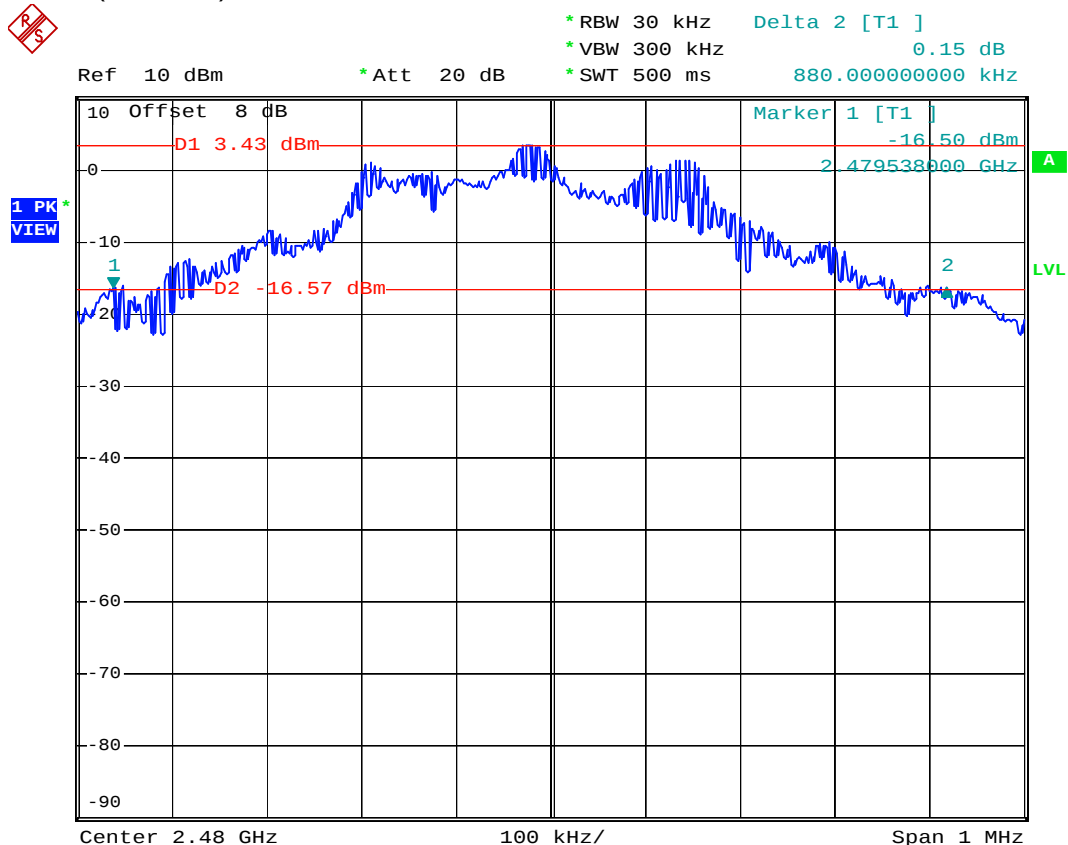
Mode 2: CH39 (2441MHz)



Date: 29.SEP.2006 16:49:33



Mode 3: CH78 (2480MHz)



Date: 29.SEP.2006 16:50:44

5.5 Dwell Time of Each Frequency within a 30 Seconds Period

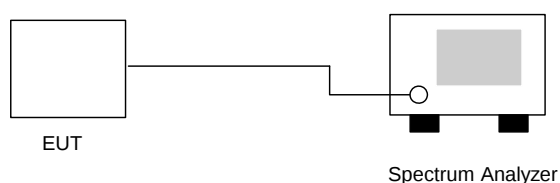
5.5.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.5.2 Test Procedure :

1. The transmitter output was connected to the spectrum analyzer directly.
2. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
3. Set the center frequency on any frequency would be measured and set the frequency span to zero span.
4. The equation = $79 \times 0.4 \times (1600/79) \times t$ (t = the time duration of one single pulse)

5.5.3 Test Setup Layout :



5.5.4 Test Result : See spectrum analyzer plots below

- Temperature: 24°C
- Relative Humidity: 48%
- Test Engineer : James

Ch00

Package Mode	Average Hopping Channel	Package Transfer Time (us)	Dwell Time (s)	Limit (s)
DH1	7	448	0.099	0.4
DH3	4.4	1714	0.238	0.4
DH5	3.4	2994	0.322	0.4

**CH39**

Package Mode	Average Hopping Channel	Package Transfer Time (us)	Dwell Time (s)	Limit (s)
DH1	8.6	444	0.121	0.4
DH3	4.3	1714	0.233	0.4
DH5	3.6	2974	0.338	0.4

CH78

Package Mode	Average Hopping Channel	Package Transfer Time (us)	Dwell Time (s)	Limit (s)
DH1	7.9	444	0.111	0.4
DH3	4.5	1714	0.244	0.4
DH5	2.9	2994	0.274	0.4

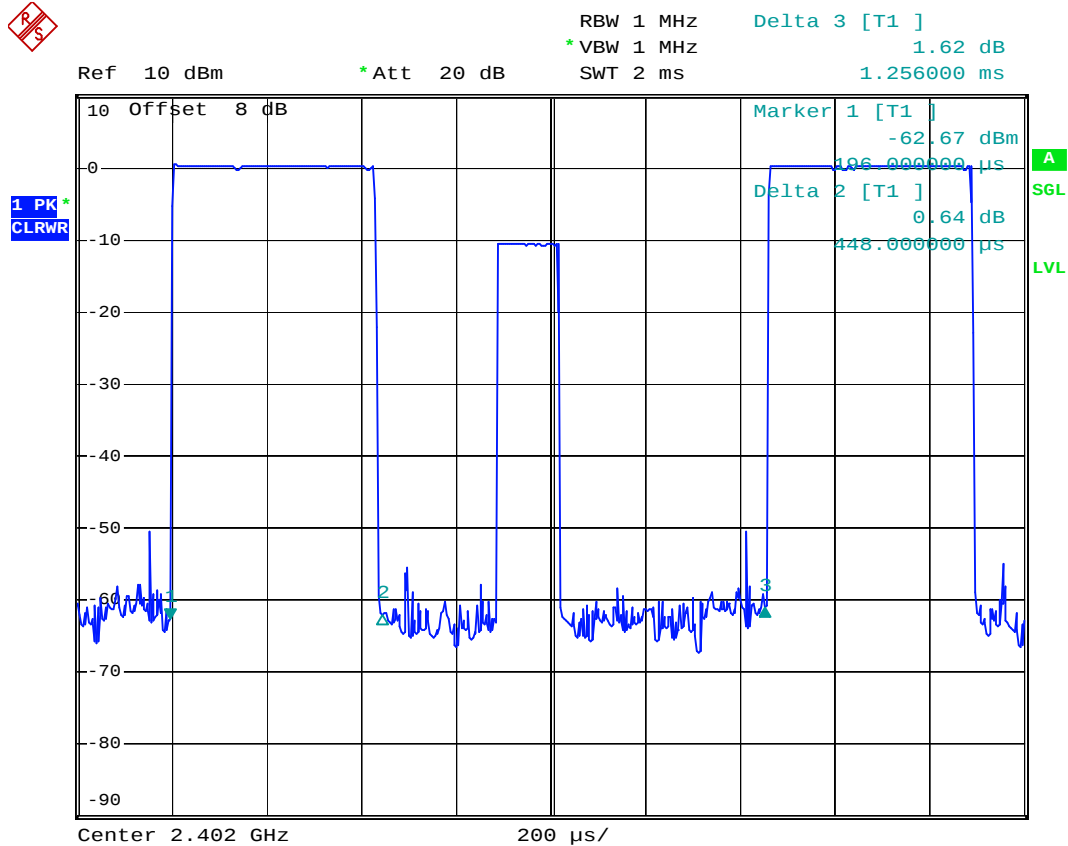
Remark:

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)

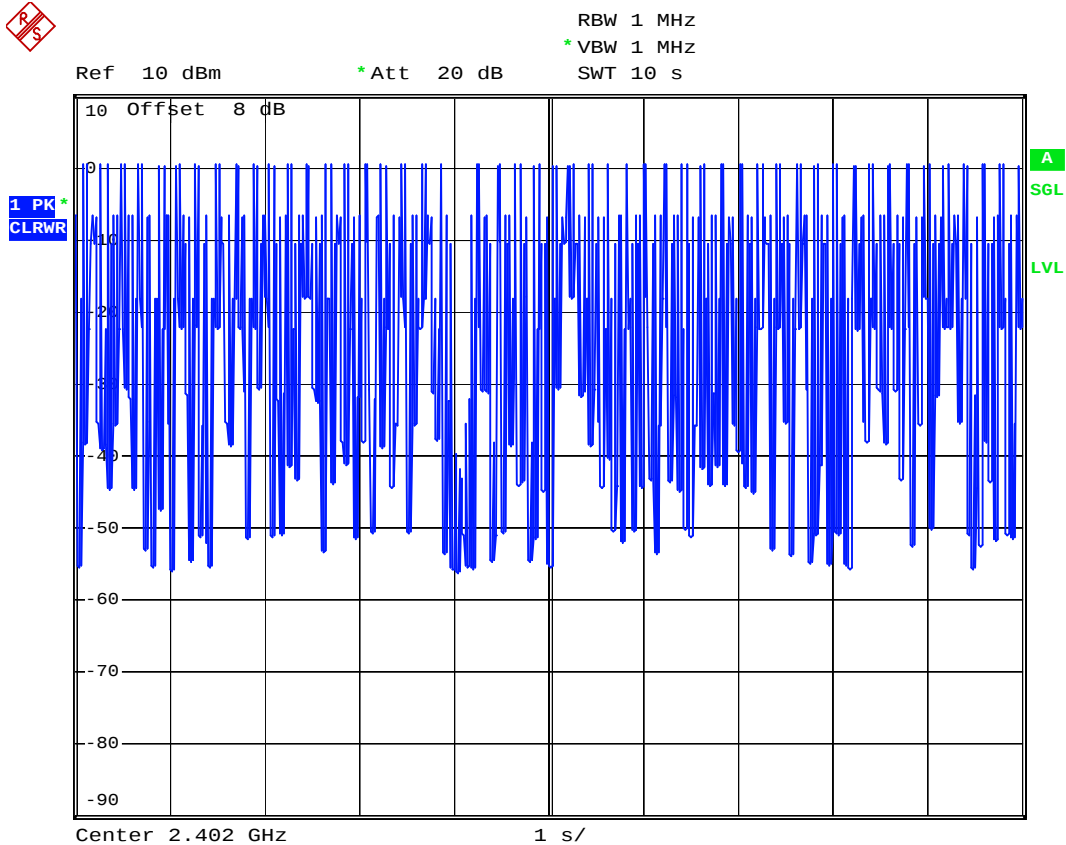


5.5.5 Dwell Time

DH1 (CH00)



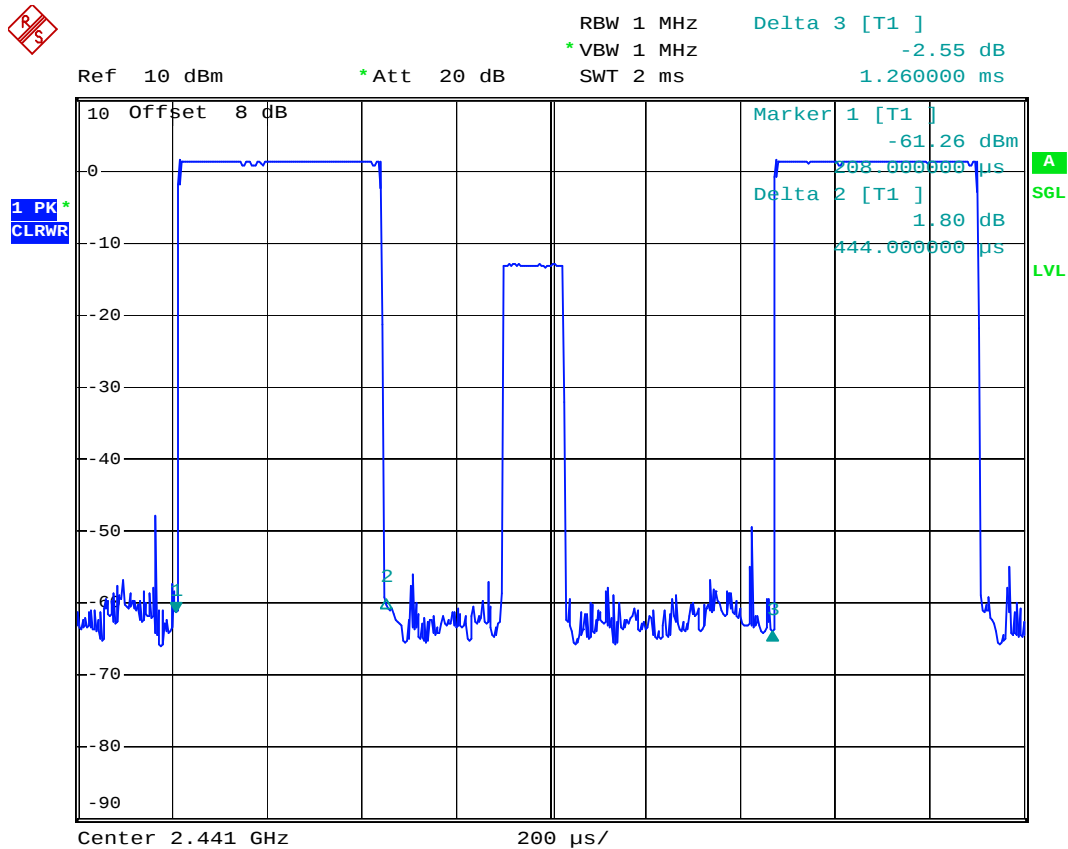
Date: 29.SEP.2006 17:00:45



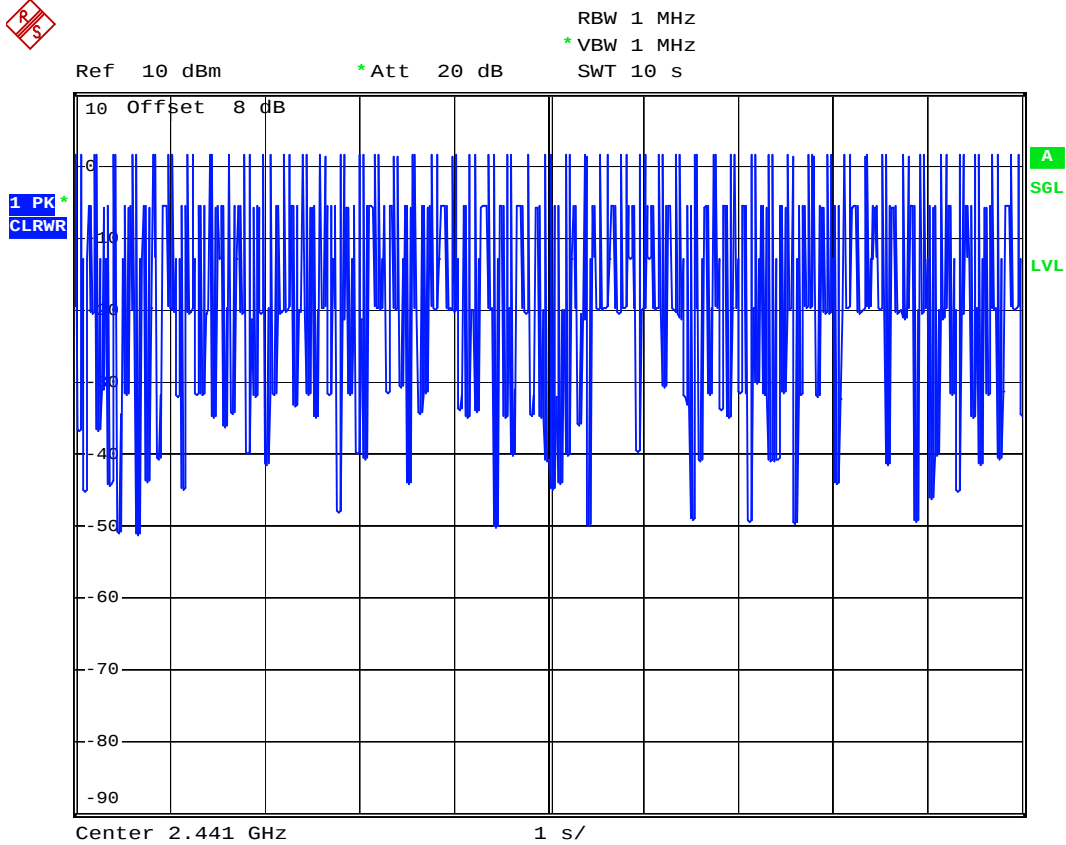
Date: 29.SEP.2006 17:14:16



DH1 (CH39)



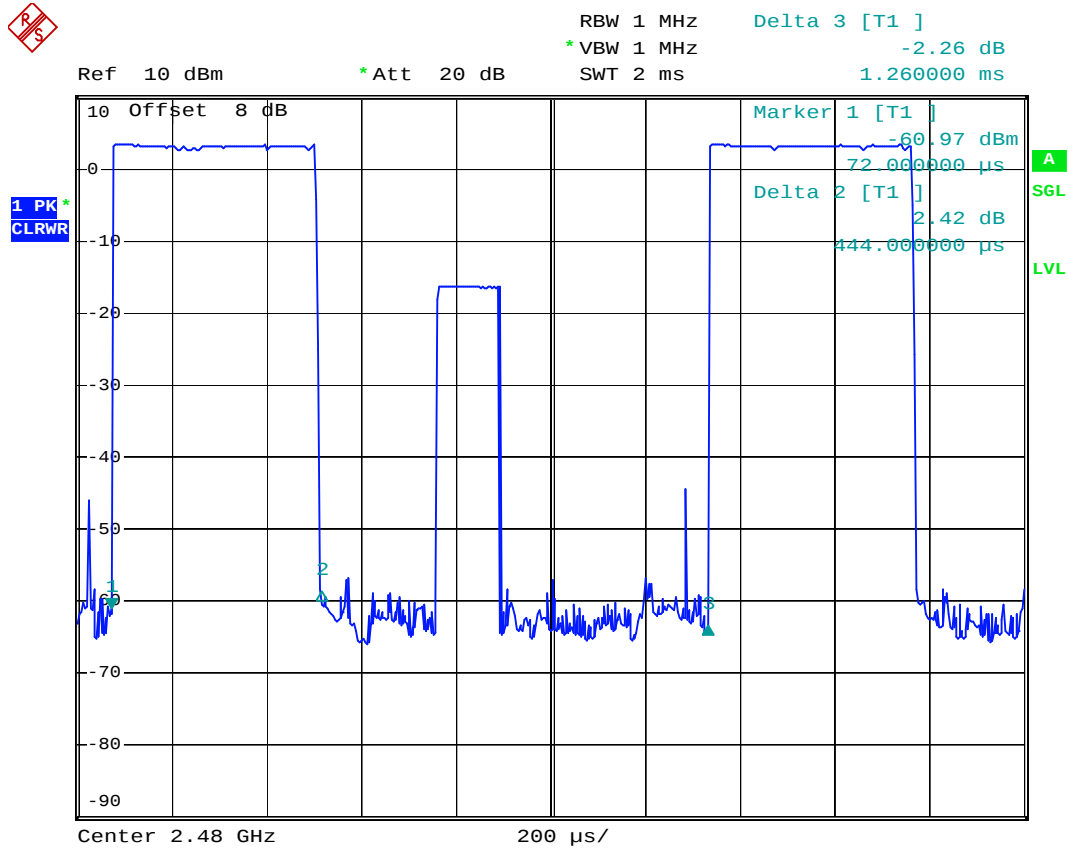
Date: 29.SEP.2006 17:01:10



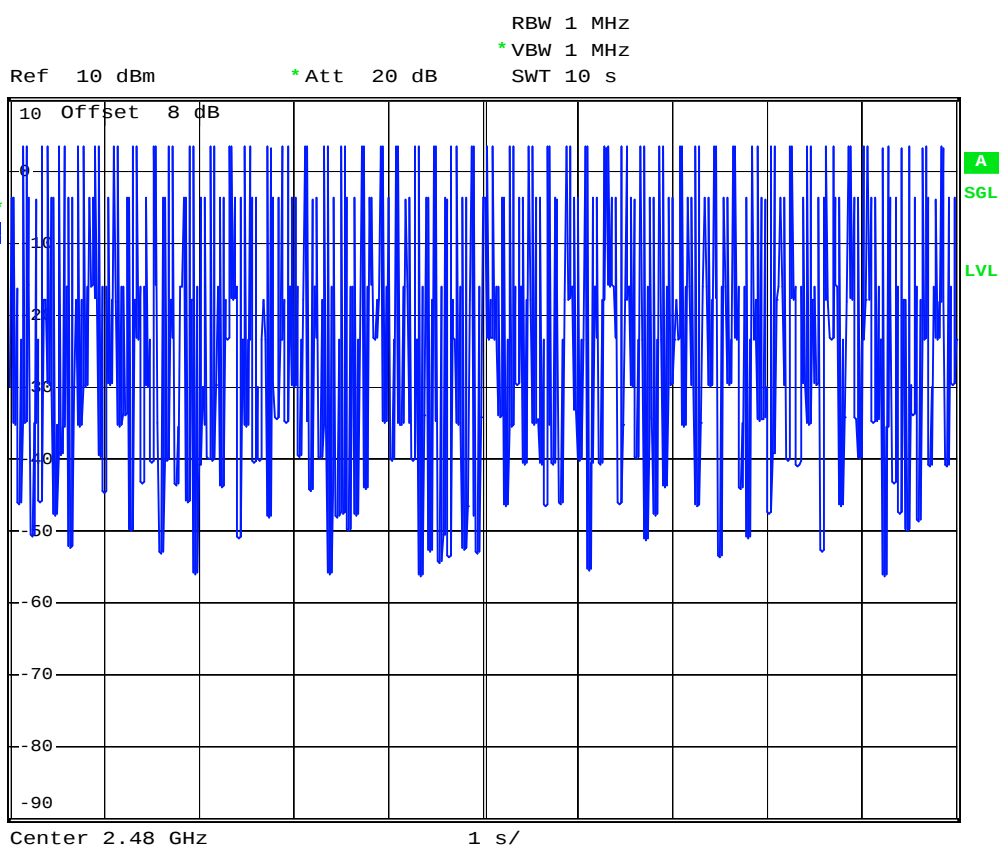
Date: 29.SEP.2006 17:14:38



DH1 (CH78)



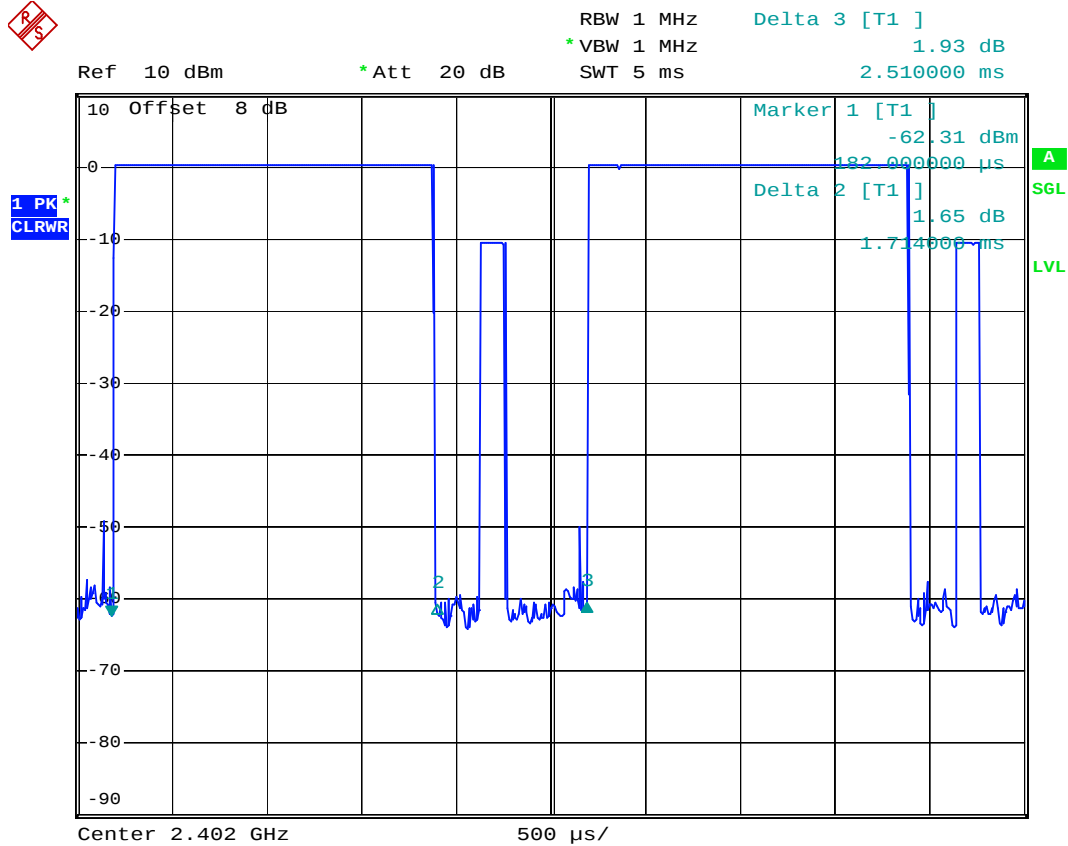
Date: 29.SEP.2006 17:02:01



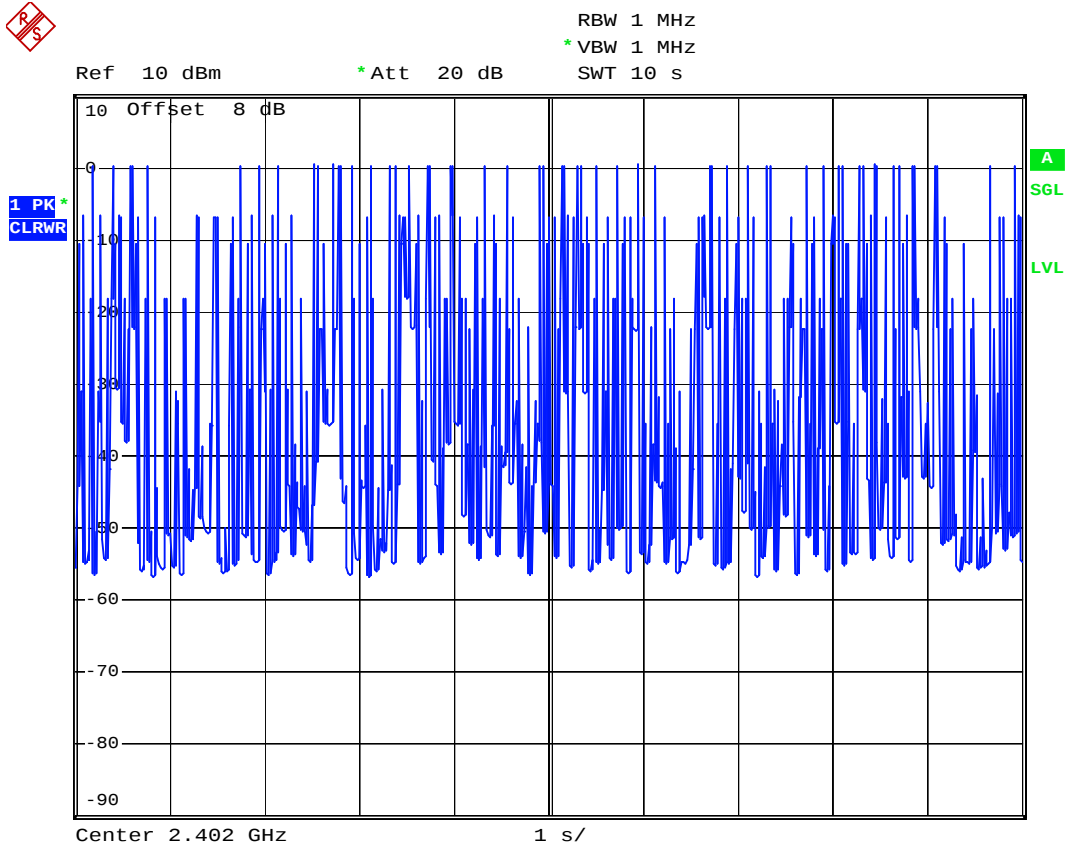
Date: 29.SEP.2006 17:14:55



DH3 (CH00)



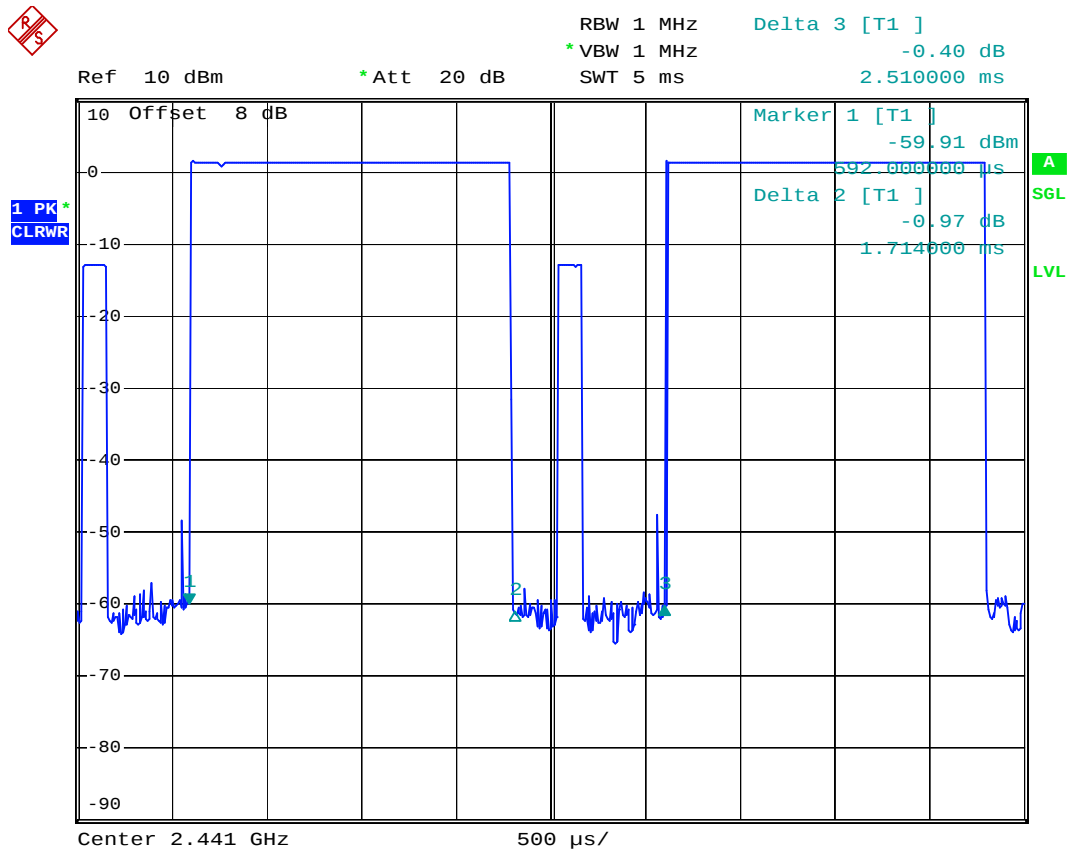
Date: 29.SEP.2006 17:08:45



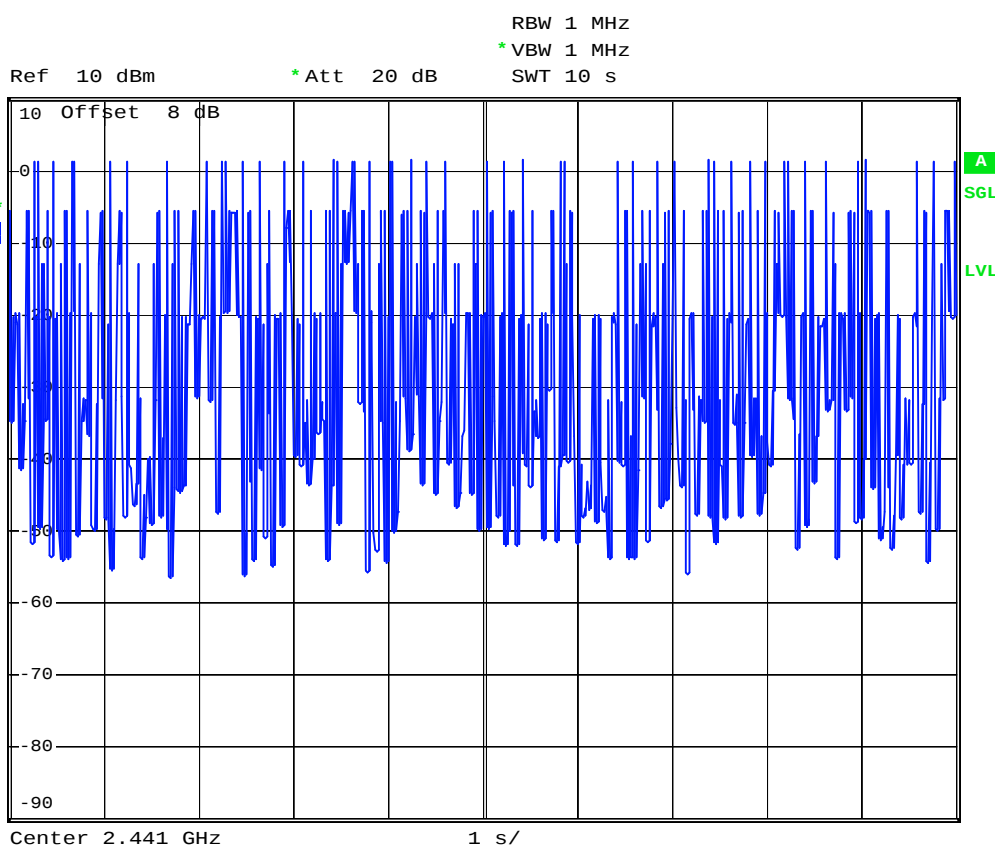
Date: 29.SEP.2006 17:15:27



DH3 (CH39)



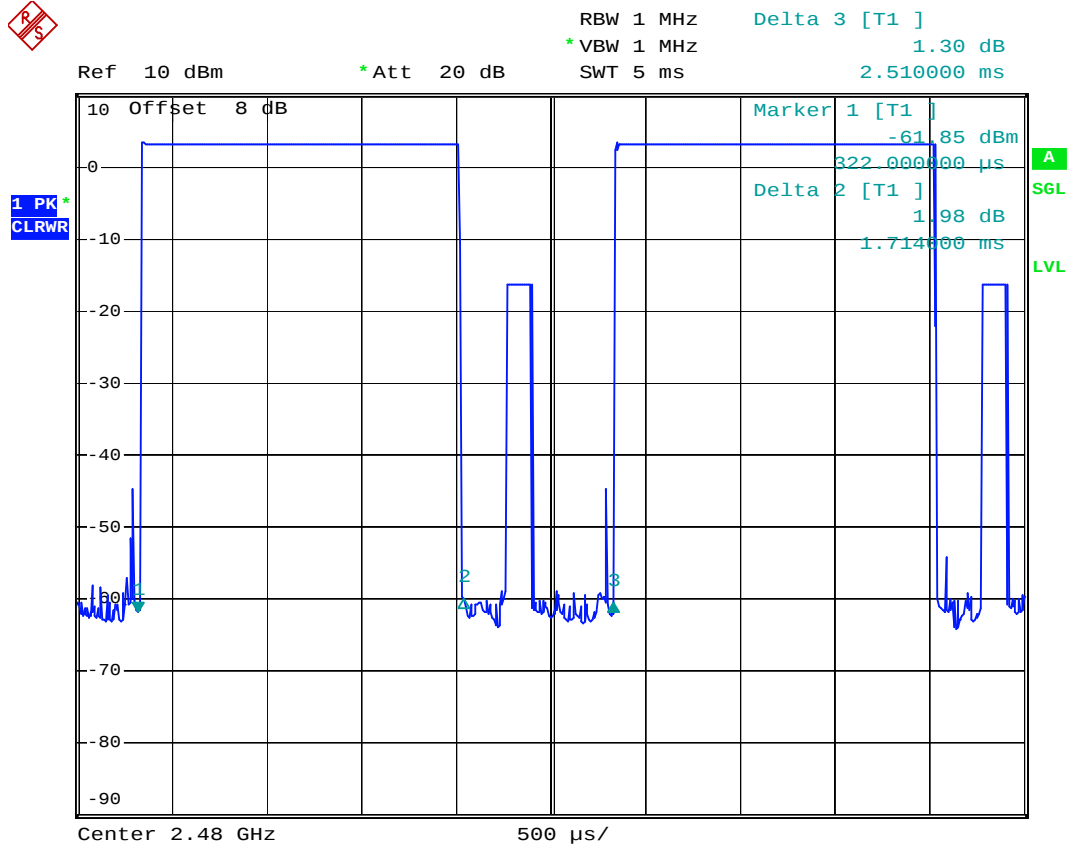
Date: 29.SEP.2006 17:10:31



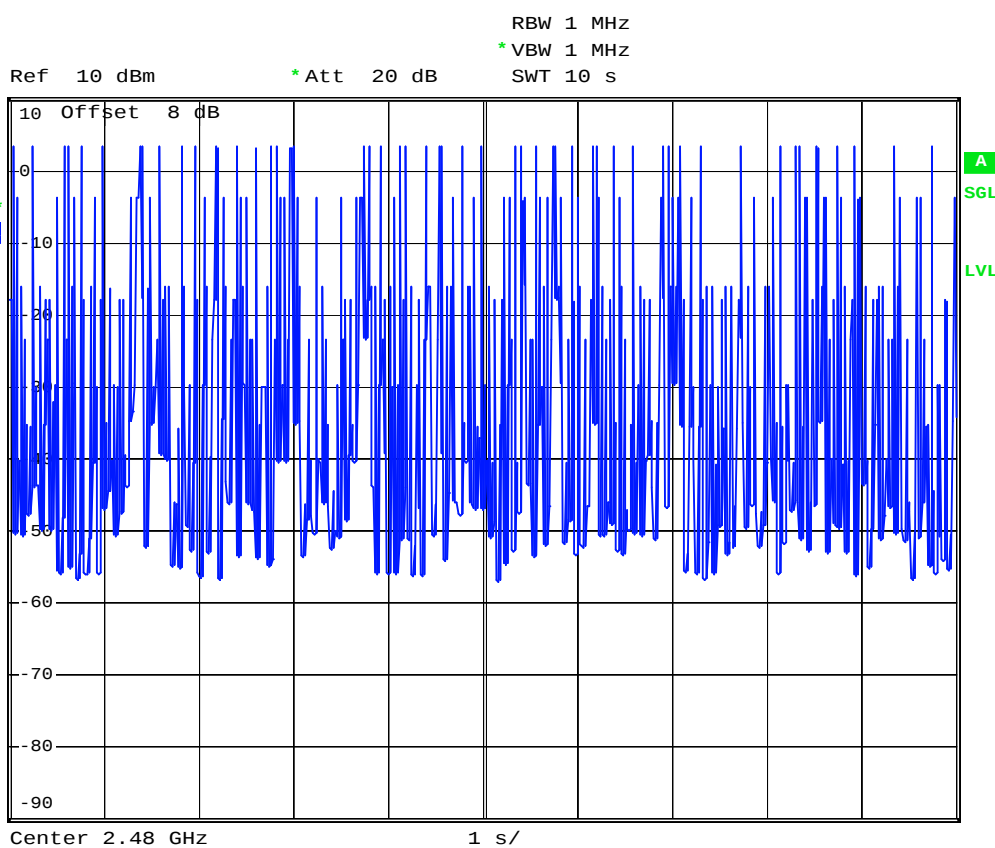
Date: 29.SEP.2006 17:15:44



DH3 (CH78)



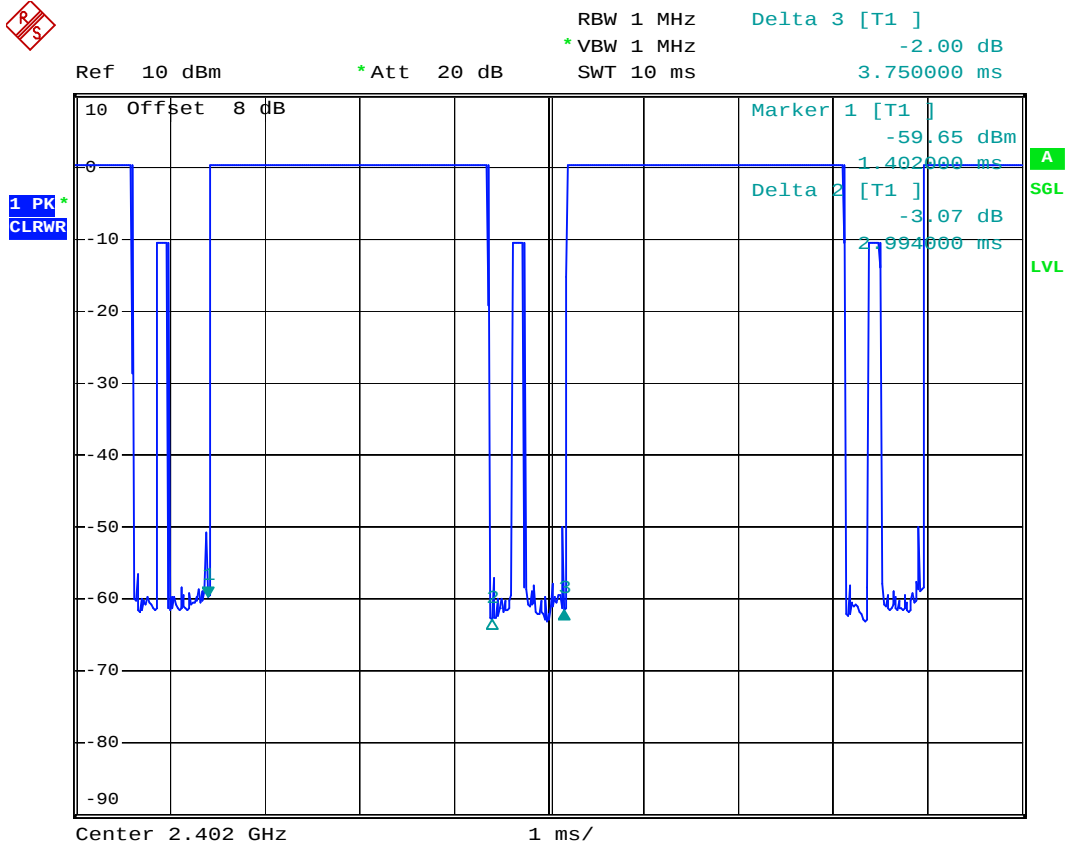
Date: 29.SEP.2006 17:11:12



Date: 29.SEP.2006 17:16:02



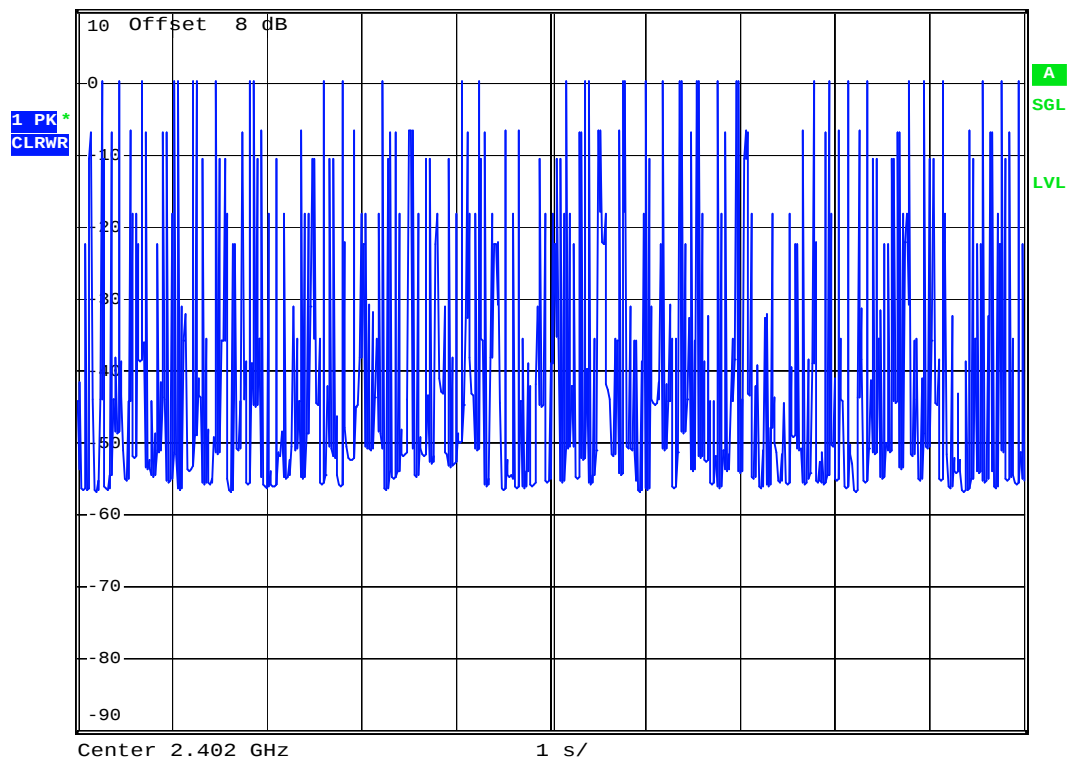
DH5 (CH00)



Date: 29.SEP.2006 17:12:07



Ref 10 dBm * Att 20 dB RBW 1 MHz
* VBW 1 MHz SWT 10 s



Date: 29.SEP.2006 17:16:41



DH5 (CH39)

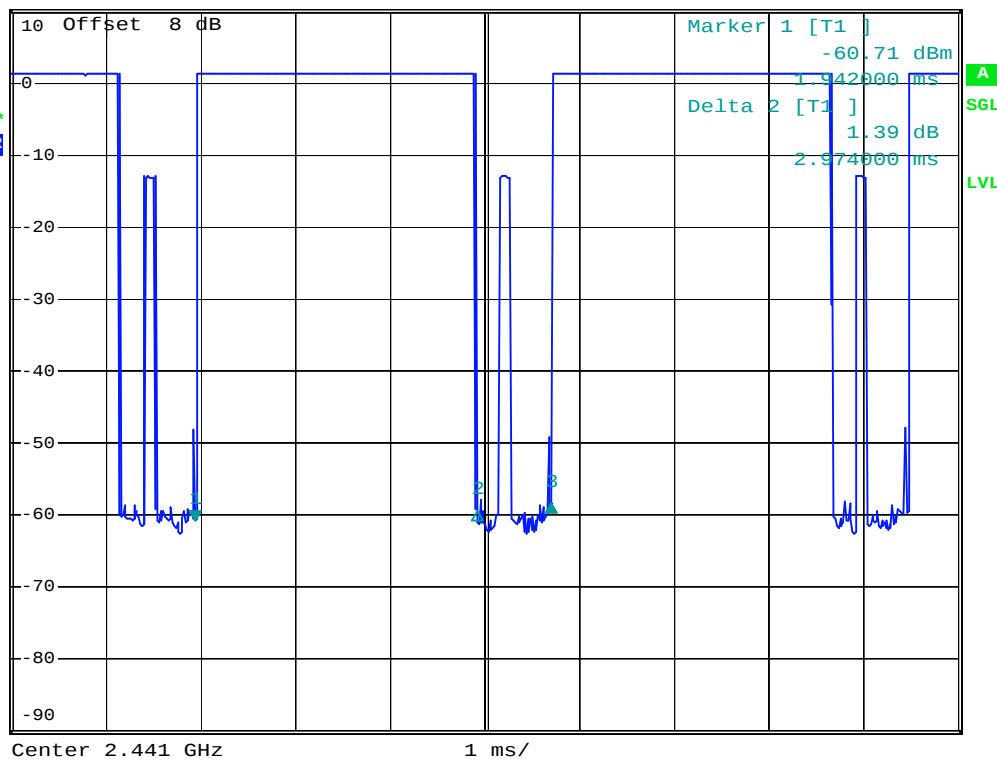


RBW 1 MHz Delta 3 [T1]
* VBW 1 MHz 2.22 dB
SWT 10 ms 3.750000 ms

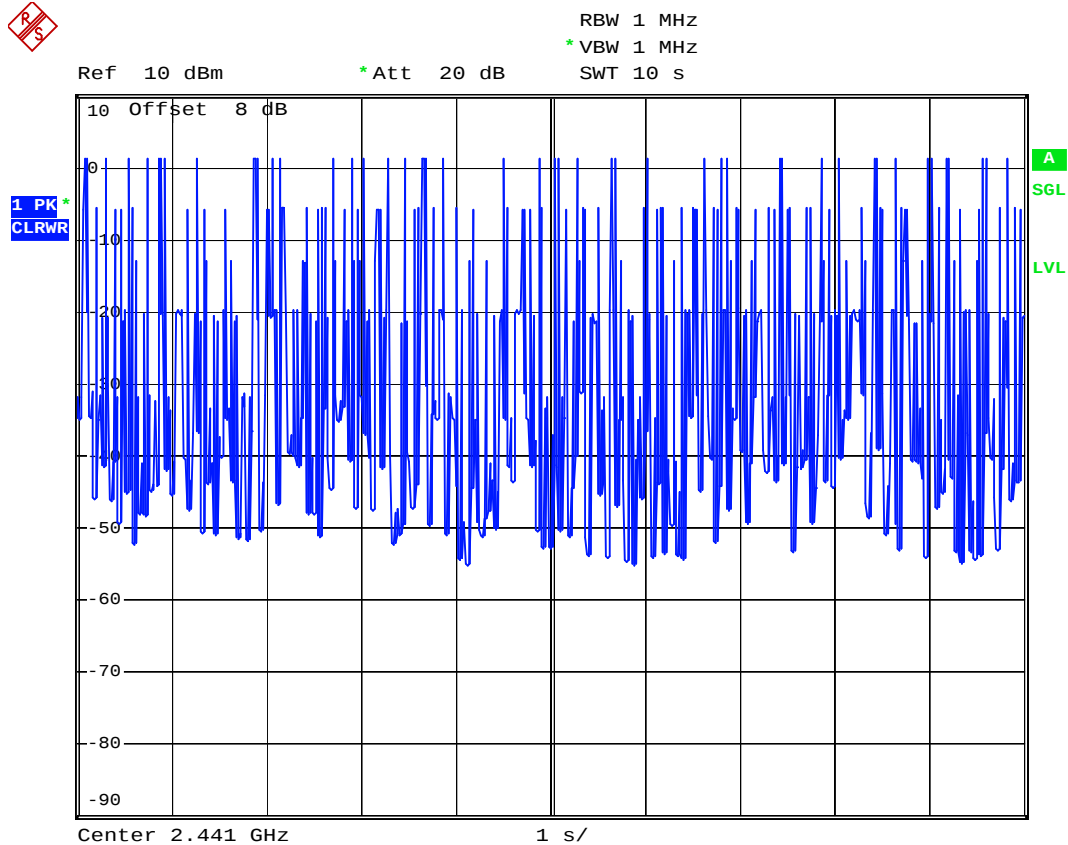
Ref 10 dBm

* Att 20 dB

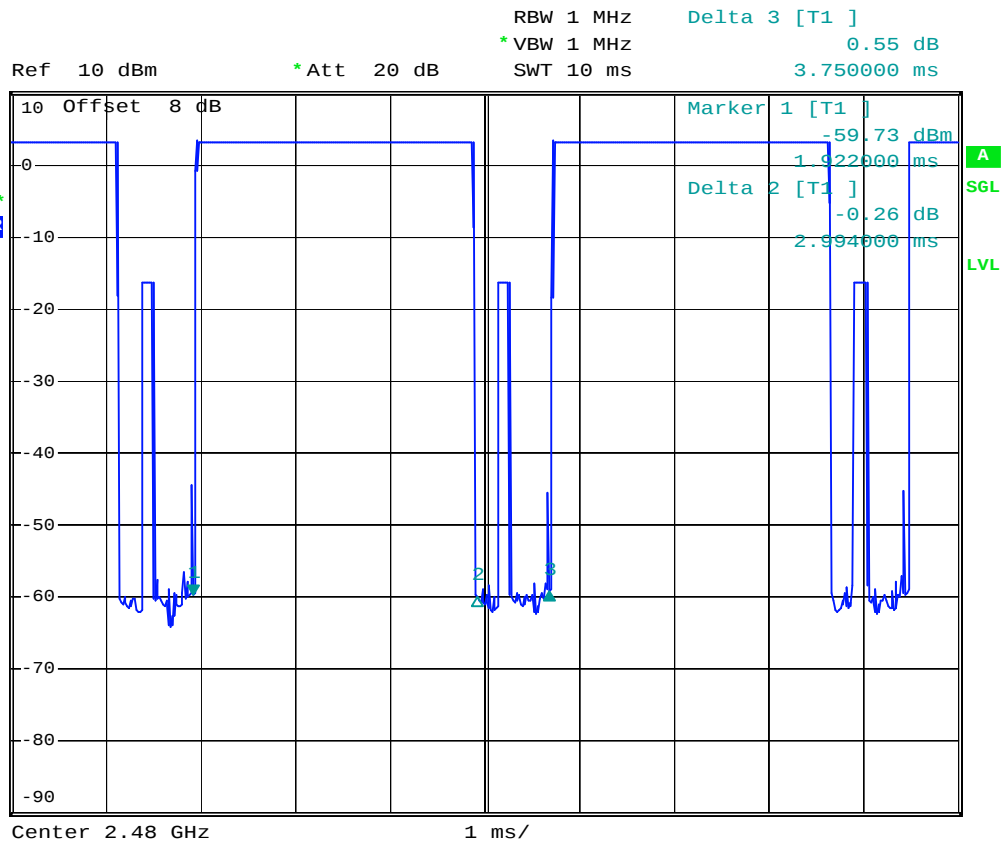
1 PK*
CLRWR



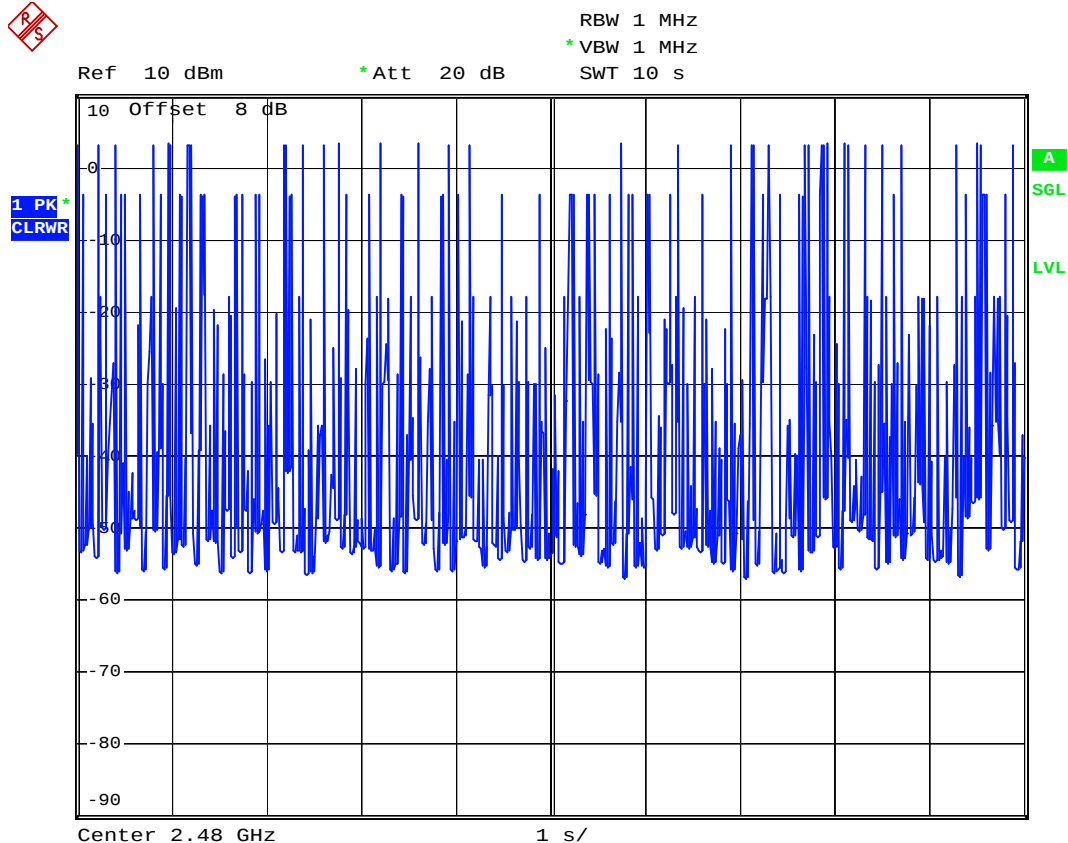
Date: 29.SEP.2006 17:12:37



Date: 29.SEP.2006 17:18:21

DH5 (CH78)


Date: 29.SEP.2006 17:13:02



Date: 29.SEP.2006 17:18:52

5.6 Output Power

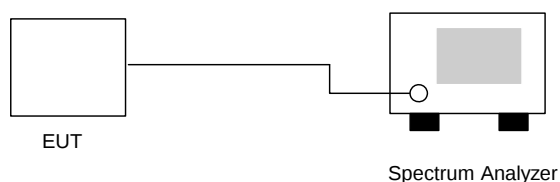
5.6.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.6.2 Test Procedure :

1. The transmitter output was connected to the spectrum analyzer directly.
2. The center frequency of the spectrum analyzer was set to the fundamental frequency and set RBW to 3MHz and VBW to 3MHz.

5.6.3 Test Setup Layout :



5.6.4 Test Result : See spectrum analyzer plots below

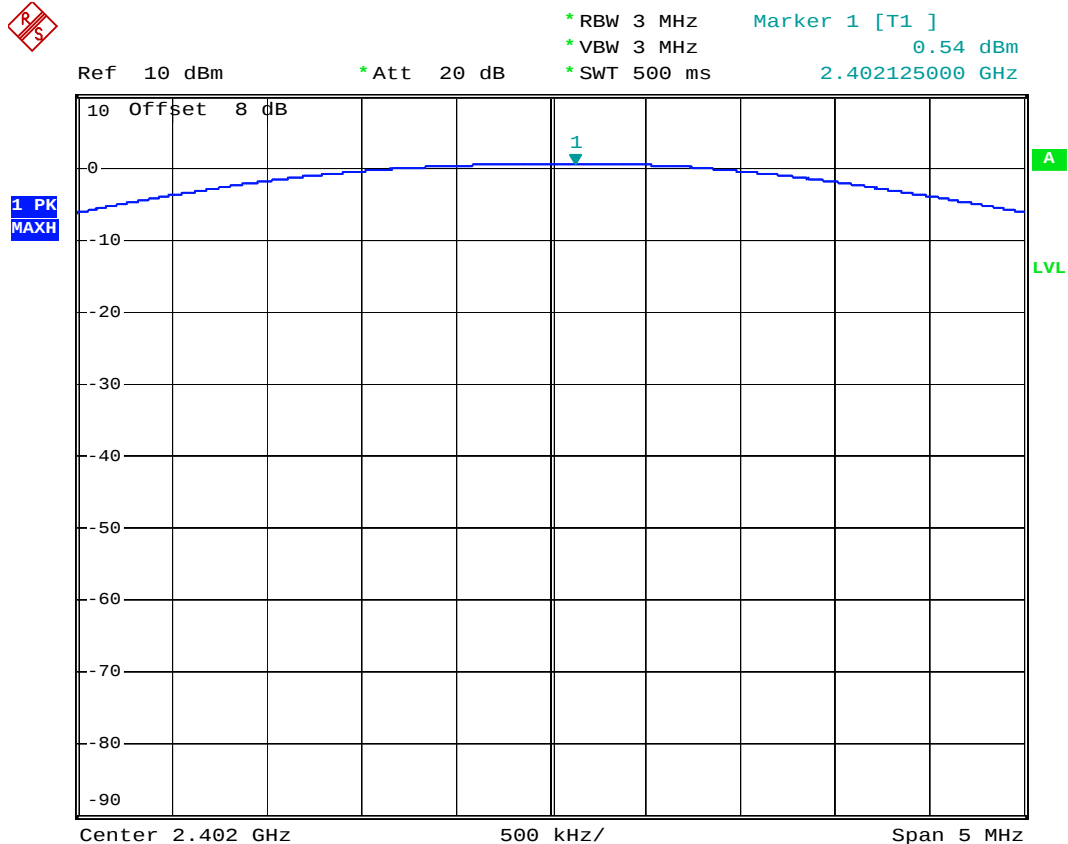
- Temperature: 24°C
- Relative Humidity: 48%
- Test Engineer : James

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (Watt/dBm)	Plot Ref. No.
00	2402	0.54	1W/30 dBm	Mode 1
39	2441	1.47	1W/30 dBm	Mode 2
78	2480	3.42	1W/30 dBm	Mode 3



5.6.5 Output Power

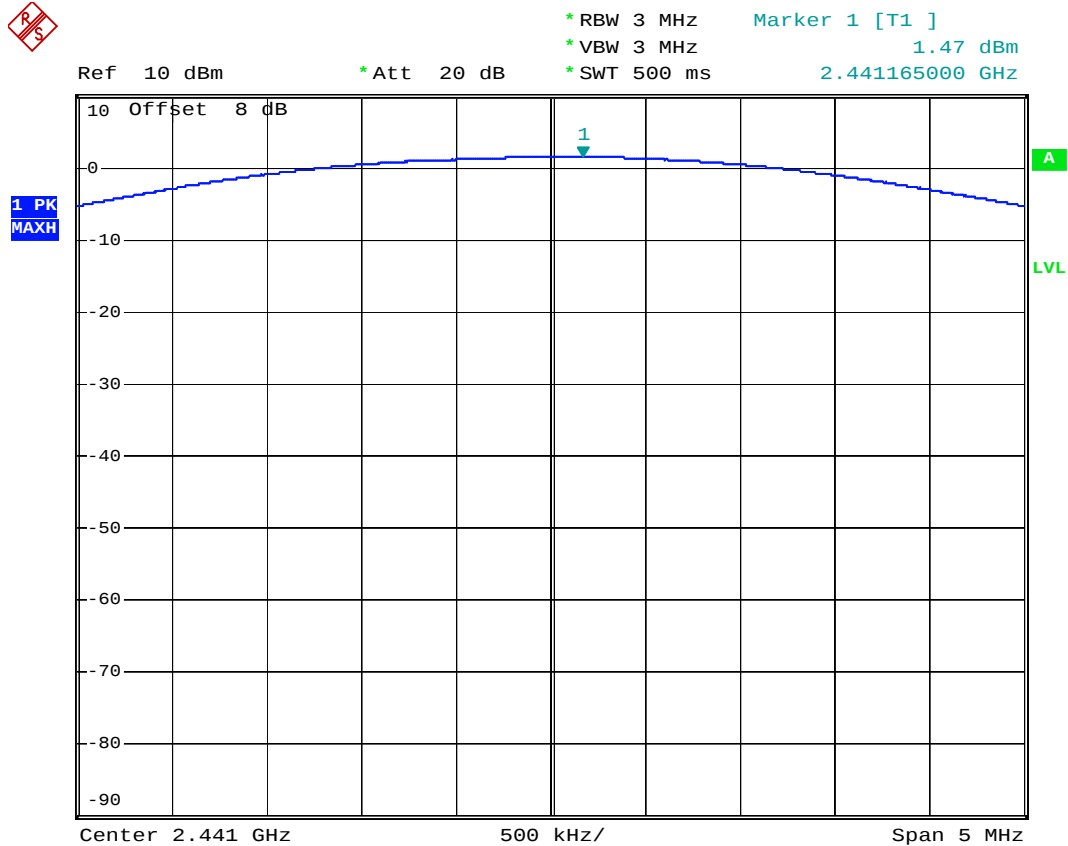
Mode 1: CH00 (2402MHz)



Date: 29.SEP.2006 16:42:17



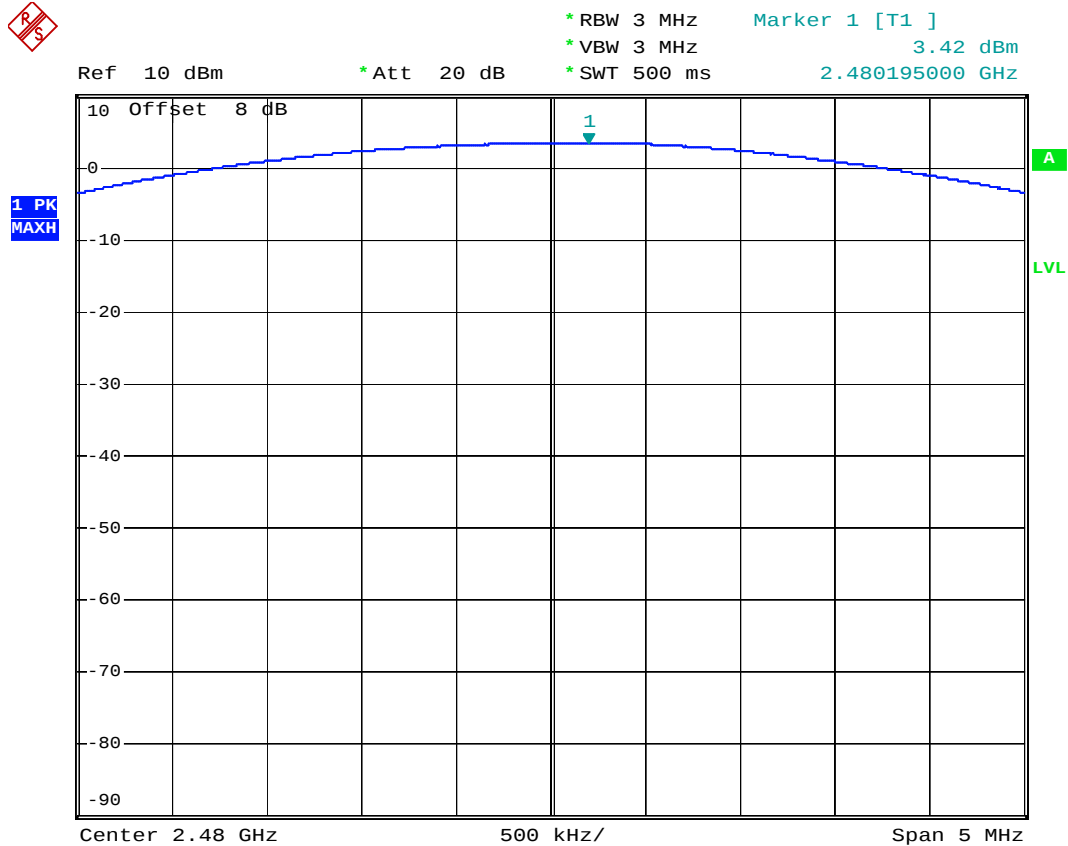
Mode 2: CH39 (2441MHz)



Date: 29.SEP.2006 16:42:38



Mode 3: CH78 (2480MHz)



Date: 29.SEP.2006 16:43:03

5.7 100kHz Bandwidth of Frequency Band Edges

5.7.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.7.2 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 for the conducted measurement, and RBW/VBW=1MHz/1MHz for peak measurement and RBW/VBW=1MHz/300Hz for average measurement in the radiated measurement.
3. The band edges was measured and recorded.

5.7.3 Test Result :

- Temperature: 24°C
- Relative Humidity: 48%
- Test Engineer : James

Test Result in lower band (Channel 00) : PASS

Test Result in higher band(Channel 78) : PASS

5.7.4 Note on Band edge Emission

CH00 (Horizontal)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Detect
(MHz)	(dBuV/m)	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Mode
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2390.0	50.87	-23.13	74.00	51.51	30.24	4.54	35.42	100	0	Peak
2390.0	38.78	-15.22	54.00	39.42	30.24	4.54	35.42	104	24	Average

CH00 (Vertical)

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Detect
(MHz)	(dBuV/m)	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Mode
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2390.0	50.80	-23.20	74.00	51.41	30.25	4.57	35.44	100	0	Peak
2390.0	39.27	-14.73	54.00	39.88	30.26	4.59	35.46	100	33	Average

**CH78 (Horizontal)**

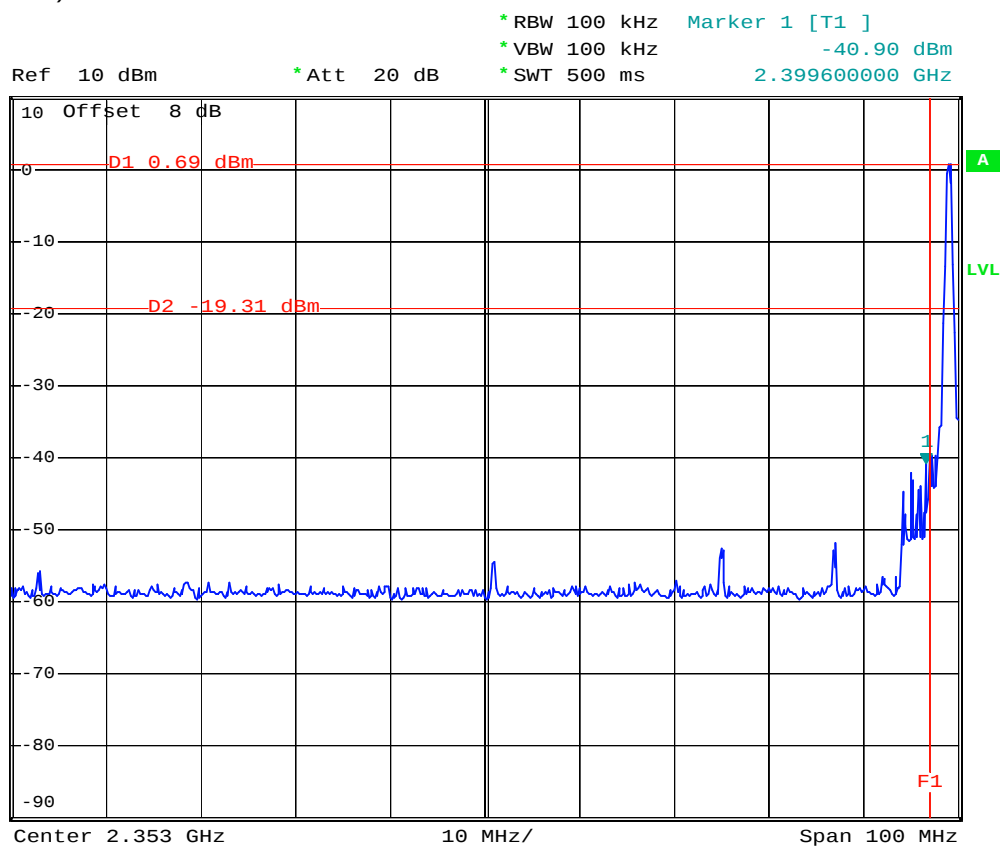
Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Detect
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	Mode
2483.5	54.00	-20.00	74.00	54.54	30.29	4.67	35.51	100	0	Peak
2483.5	42.51	-11.49	54.00	43.05	30.29	4.67	35.51	100	14	Average

CH78 (Vertical)

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Detect
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV)	(dB)	(dB)	(dB)	(cm)	(deg)	Mode
2483.5	61.71	-12.29	74.00	62.25	30.29	4.67	35.51	100	0	Peak
2483.5	45.90	-8.10	54.00	46.44	30.29	4.67	35.51	104	80	Average

**5.7.5 Frequency Band Edge**

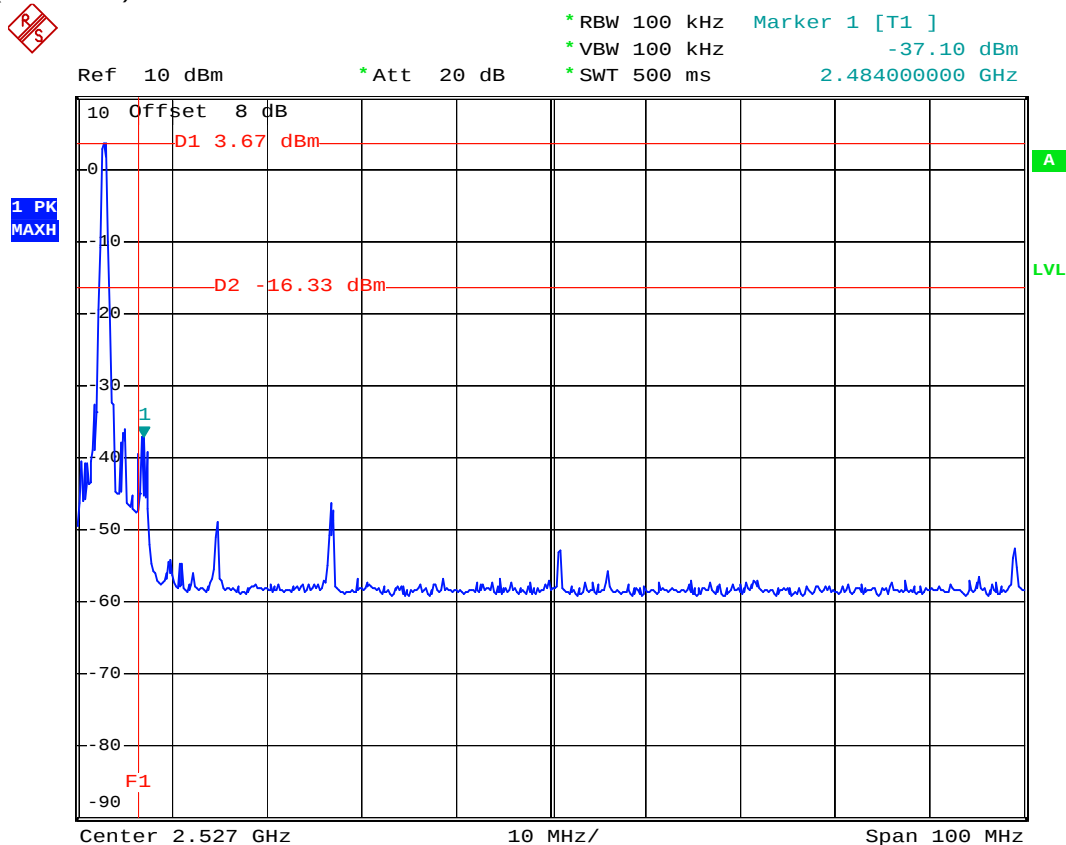
CH00 (2402 MHz)

**1 PK
MAXH**

Date: 29.SEP.2006 16:55:03



CH78 (2480 MHz)



Date: 29.SEP.2006 16:57:04

5.8 Conducted Emission

5.8.1 Measuring Instruments

As described in chapter 6 of this test Report.

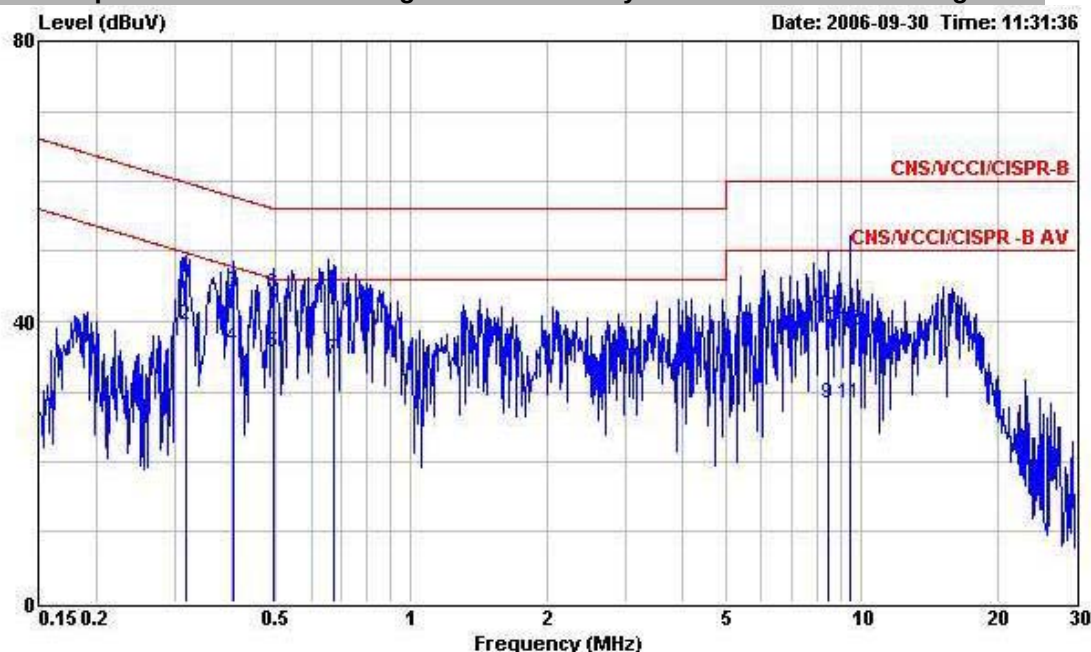
5.8.2 Test Procedures :

- 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 Test Mode 1

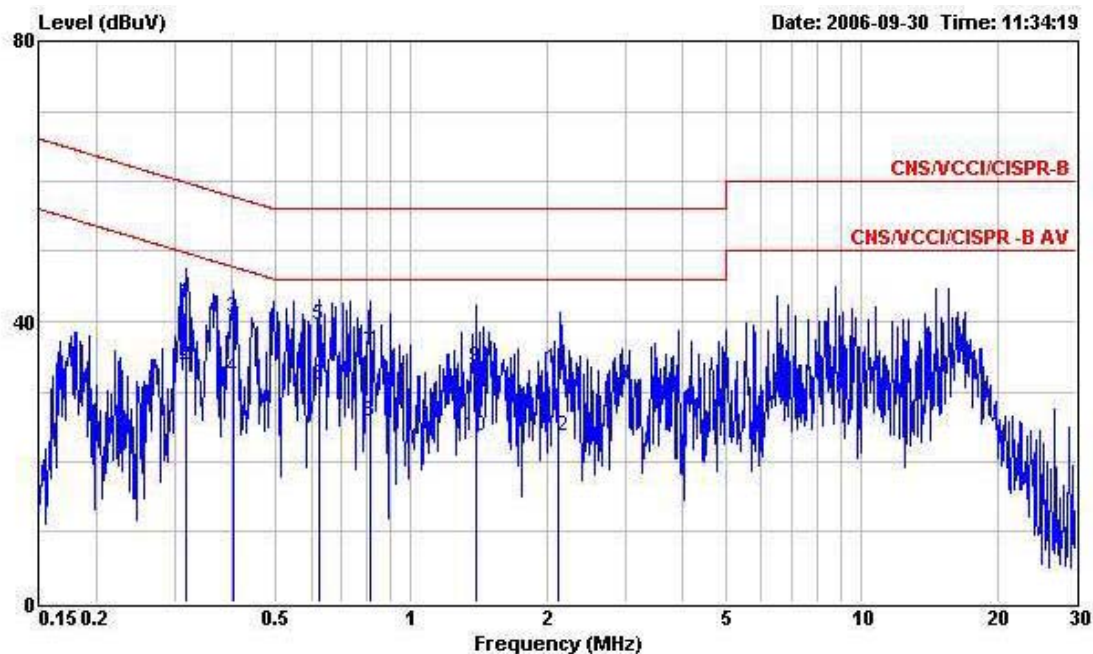
- Temperature: 24°C
- Relative Humidity: 48%
- Test Engineer : James

■ 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 200604 LINE
 EUT : PDA PHONE
 Power : 120V/60Hz
 Model : Torino
 Memo : CDMA2000 CELLULAR LINK+BT LINK+H PATTERN
 Memo : +USB LINK+EARPHONE 1 +ADAPTOR 1
 Memo :

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.315	46.16	-13.68	59.84	45.98	0.10	0.08	QP
2	0.315	39.46	-10.38	49.84	39.28	0.10	0.08	Average
3	0.402	44.19	-13.62	57.81	44.02	0.10	0.07	QP
4	0.402	36.35	-11.46	47.81	36.18	0.10	0.07	Average
5	0.495	35.51	-10.57	46.08	35.33	0.10	0.08	Average
6	0.495	43.77	-12.31	56.08	43.59	0.10	0.08	QP
7	0.673	34.50	-11.50	46.00	34.30	0.10	0.10	Average
8	0.673	44.52	-11.48	56.00	44.32	0.10	0.10	QP
9	8.410	28.42	-21.58	50.00	28.06	0.28	0.08	Average
10	8.410	40.48	-19.52	60.00	40.12	0.28	0.08	QP
11	9.428	28.28	-21.72	50.00	27.91	0.29	0.08	Average
12	9.428	38.57	-21.43	60.00	38.20	0.29	0.08	QP



Site : CO01-HY
Condition : CNS/VCCI/CISPR-B 2001/004 200604 NEUTRAL
EUT : PDA PHONE
Power : 120V/60Hz
Model : Torino
Memo : CDMA2000 CELLULAR LINK+BT LINK+H PATTERN
Memo : +USB LINK+EARPHONE 1 +ADAPTOR 1
Memo :

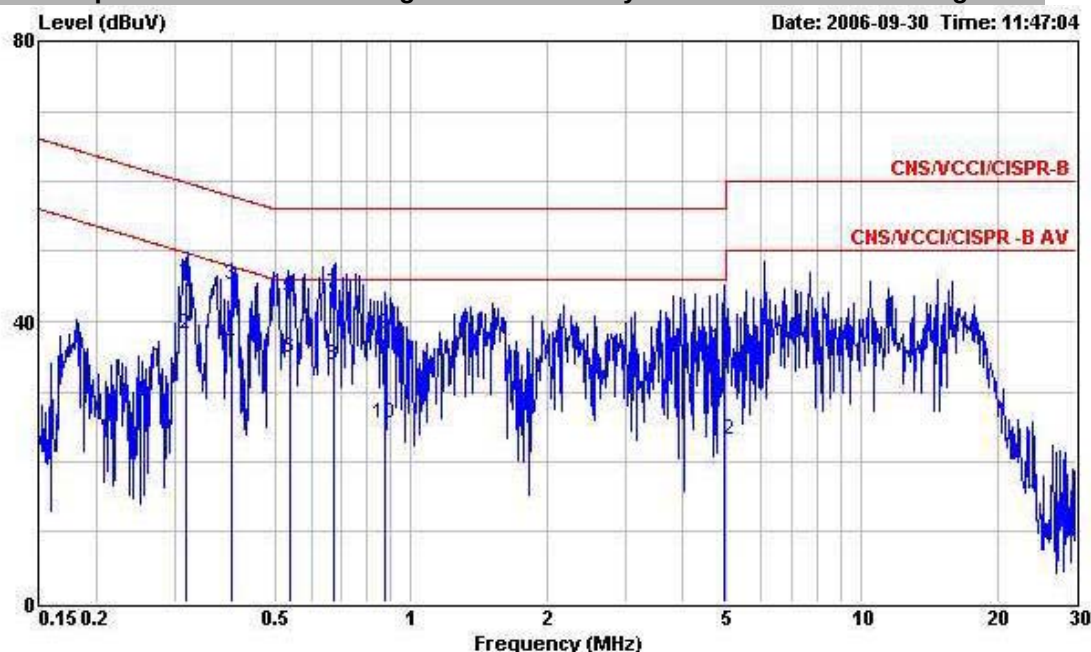
	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.317	42.61	-17.18	59.79	42.43	0.10	0.08	QP
2	0.317	33.73	-16.06	49.79	33.55	0.10	0.08	Average
3	0.402	40.42	-17.39	57.81	40.25	0.10	0.07	QP
4	0.402	32.03	-15.78	47.81	31.86	0.10	0.07	Average
5	0.627	39.43	-16.57	56.00	39.24	0.10	0.09	QP
6	0.627	30.90	-15.10	46.00	30.71	0.10	0.09	Average
7	0.809	35.59	-20.41	56.00	35.38	0.10	0.11	QP
8	0.809	25.59	-20.41	46.00	25.38	0.10	0.11	Average
9	1.390	33.40	-22.60	56.00	33.20	0.10	0.10	QP
10	1.390	23.65	-22.35	46.00	23.45	0.10	0.10	Average
11	2.130	33.31	-22.69	56.00	33.13	0.10	0.08	QP
12	2.130	23.69	-22.31	46.00	23.51	0.10	0.08	Average



5.8.4 Test Data Test Mode 2

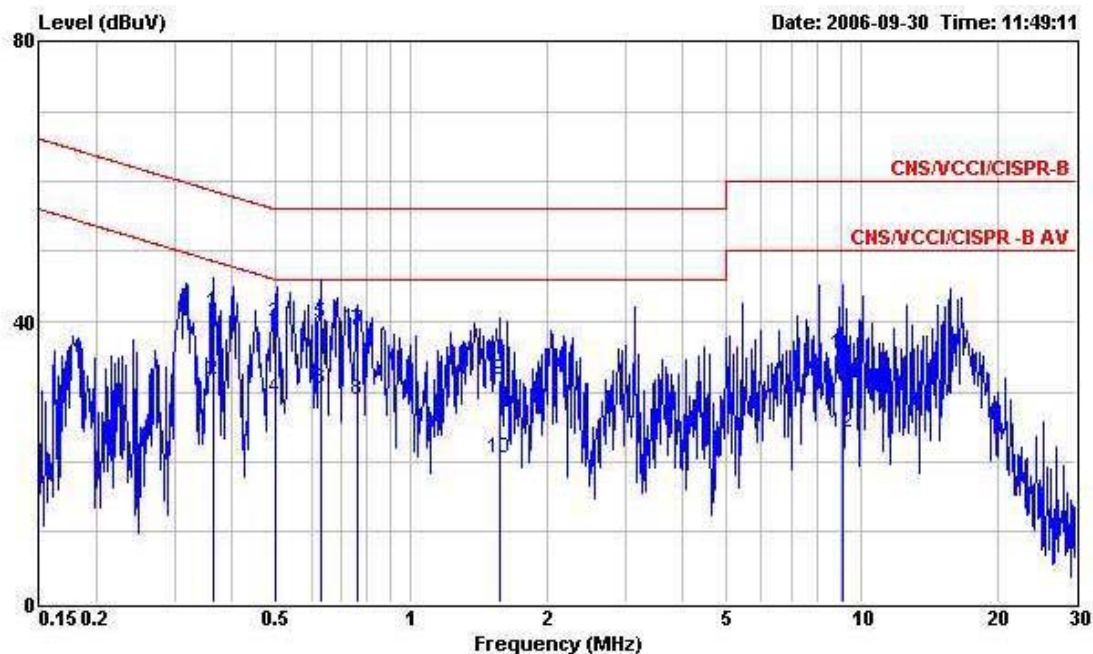
- Temperature: 24°C
- Relative Humidity: 48%
- Test Engineer : James

■ 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 200604 LINE
 EUT : PDA PHONE
 Power : 120V/60Hz
 Model : Torino
 Memo : CDMA2000 CELLULAR LINK+BT LINK+H PATTERN
 Memo : +USB LINK+EARPHONE 2 +ADAPTOR 1
 Memo :

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.317	45.66	-14.11	59.77	45.48	0.10	0.08	QP
2	0.317	38.28	-11.49	49.77	38.10	0.10	0.08	Average
3	0.401	45.20	-12.64	57.84	45.03	0.10	0.07	QP
4	0.401	36.75	-11.09	47.84	36.58	0.10	0.07	Average
5	0.538	43.44	-12.56	56.00	43.25	0.10	0.09	QP
6	0.538	34.88	-11.12	46.00	34.69	0.10	0.09	Average
7	0.675	43.82	-12.18	56.00	43.62	0.10	0.10	QP
8	0.675	33.79	-12.21	46.00	33.59	0.10	0.10	Average
9	0.871	38.21	-17.79	56.00	38.00	0.10	0.11	QP
10	0.871	25.36	-20.64	46.00	25.15	0.10	0.11	Average
11	4.950	36.39	-19.61	56.00	36.09	0.22	0.08	QP
12	4.950	23.06	-22.94	46.00	22.76	0.22	0.08	Average



Site : CO01-HY
 Condition : CNS/VCCI/CISPR-B 2001/004 200604 NEUTRAL
 EUT : PDA PHONE
 Power : 120V/60Hz
 Model : Torino
 Memo : CDMA2000 CELLULAR LINK+BT LINK+H PATTERN
 Memo : +USB LINK+EARPHONE 2 +ADAPTOR 1
 Memo :

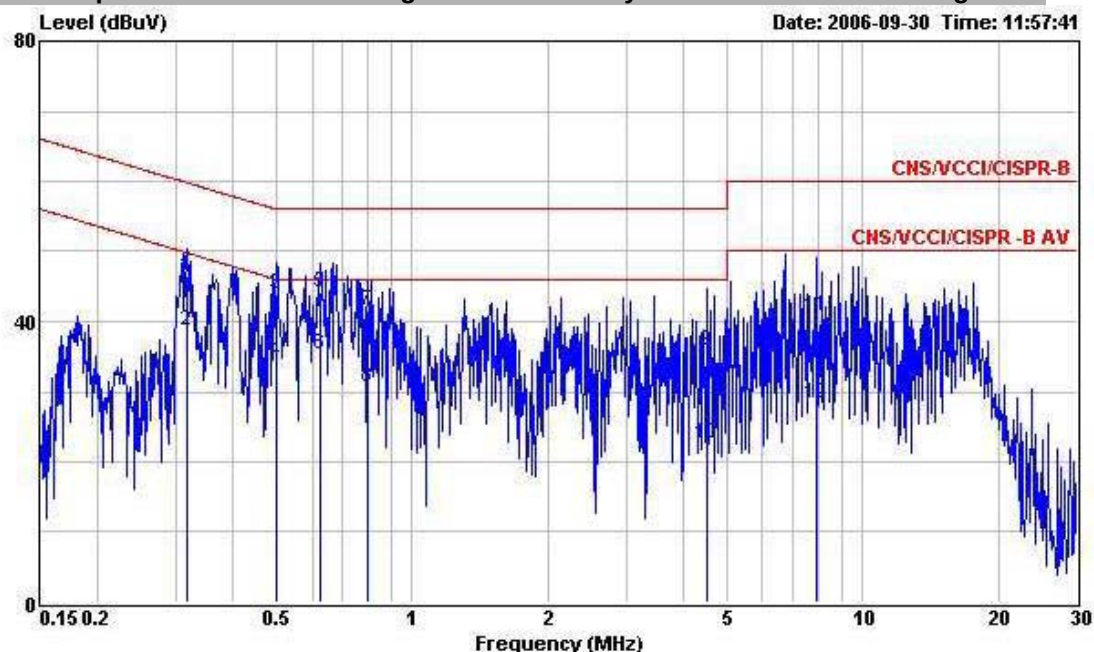
	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.365	41.21	-17.40	58.61	41.03	0.10	0.08	QP
2	0.365	31.66	-16.95	48.61	31.48	0.10	0.08	Average
3	0.502	39.66	-16.34	56.00	39.48	0.10	0.08	QP
4	0.502	28.96	-17.04	46.00	28.78	0.10	0.08	Average
5	0.630	39.65	-16.35	56.00	39.46	0.10	0.09	QP
6	0.630	30.30	-15.70	46.00	30.11	0.10	0.09	Average
7	0.763	38.73	-17.27	56.00	38.52	0.10	0.11	QP
8	0.763	28.76	-17.24	46.00	28.55	0.10	0.11	Average
9	1.580	31.72	-24.28	56.00	31.53	0.10	0.09	QP
10	1.580	20.53	-25.47	46.00	20.34	0.10	0.09	Average
11	9.110	35.37	-24.63	60.00	35.10	0.19	0.08	QP
12	9.110	24.13	-25.87	50.00	23.86	0.19	0.08	Average



5.8.5 Test Data Test Mode 3

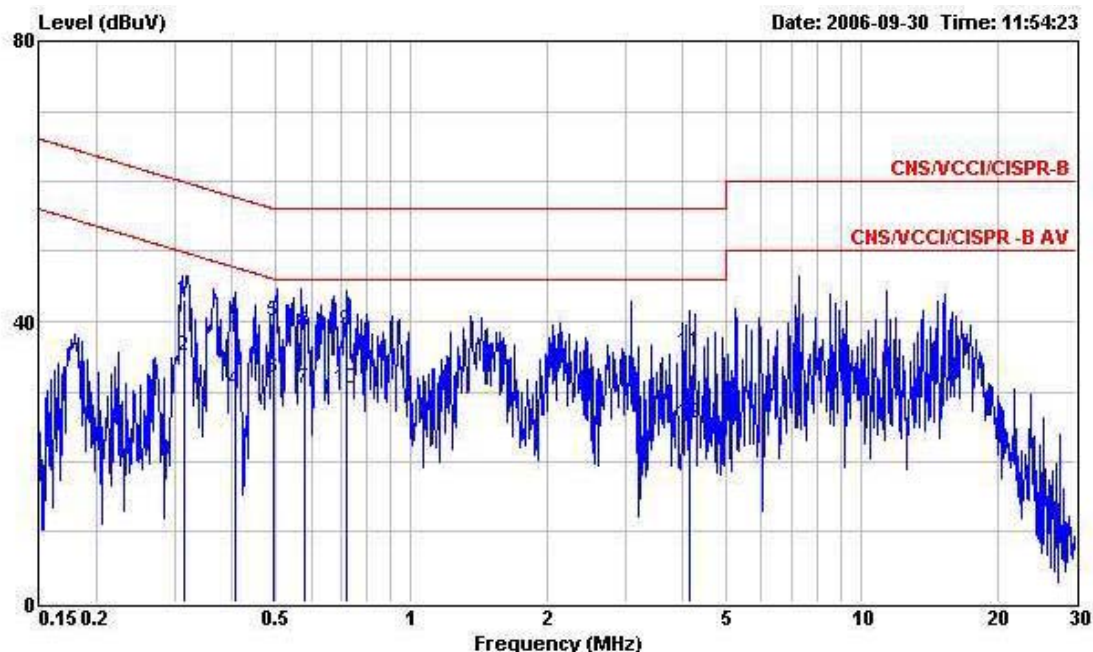
- Temperature: 24°C
- Relative Humidity: 48%
- Test Engineer : James

■ 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 200604 LINE
EUT : PDA PHONE
Power : 120V/60Hz
Model : Torino
Memo : CDMA2000 PCS LINK+BT LINK+H PATTERN
Memo : +USB LINK+EARPHONE 1 +ADAPTOR 1
Memo :

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.317	46.42	-13.37	59.79	46.24	0.10	0.08	QP
2	0.317	38.57	-11.22	49.79	38.39	0.10	0.08	Average
3	0.499	44.01	-12.01	56.02	43.83	0.10	0.08	QP
4	0.499	34.38	-11.64	46.02	34.20	0.10	0.08	Average
5	0.624	44.15	-11.85	56.00	43.96	0.10	0.09	QP
6	0.624	35.24	-10.76	46.00	35.05	0.10	0.09	Average
7	0.800	41.55	-14.45	56.00	41.34	0.10	0.11	QP
8	0.800	30.70	-15.30	46.00	30.49	0.10	0.11	Average
9	4.530	35.96	-20.04	56.00	35.67	0.21	0.08	QP
10	4.530	22.61	-23.39	46.00	22.32	0.21	0.08	Average
11	7.940	40.70	-19.30	60.00	40.35	0.27	0.08	QP
12	7.940	28.41	-21.59	50.00	28.06	0.27	0.08	Average



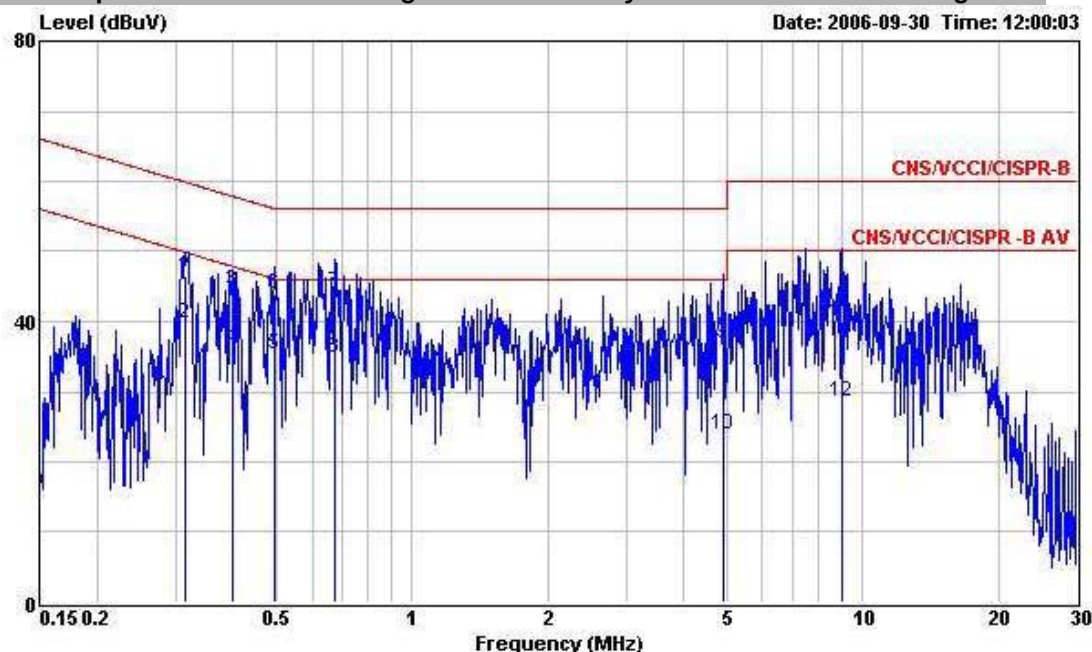
Site : CO01-HY
Condition : CNS/VCCI/CISPR-B 2001/004 200604 NEUTRAL
EUT : PDA PHONE
Power : 120V/60Hz
Model : Torino
Memo : CDMA2000 PCS LINK+BT LINK+H PATTERN
Memo : +USB LINK+EARPHONE 1 +ADAPTOR 1
Memo :

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.315	43.11	-16.74	59.85	42.93	0.10	0.08	QP
2	0.315	35.15	-14.70	49.85	34.97	0.10	0.08	Average
3	0.407	39.07	-18.65	57.72	38.90	0.10	0.07	QP
4	0.407	30.24	-17.48	47.72	30.07	0.10	0.07	Average
5	0.494	39.93	-16.16	56.09	39.75	0.10	0.08	QP
6	0.494	31.86	-14.23	46.09	31.68	0.10	0.08	Average
7	0.581	30.38	-15.62	46.00	30.19	0.10	0.09	Average
8	0.581	38.33	-17.67	56.00	38.14	0.10	0.09	QP
9	0.719	38.82	-17.18	56.00	38.62	0.10	0.10	QP
10	0.719	30.26	-15.74	46.00	30.06	0.10	0.10	Average
11	4.170	35.52	-20.48	56.00	35.34	0.10	0.08	QP
12	4.170	25.58	-20.42	46.00	25.40	0.10	0.08	Average

5.8.6 Test Data Test Mode 4

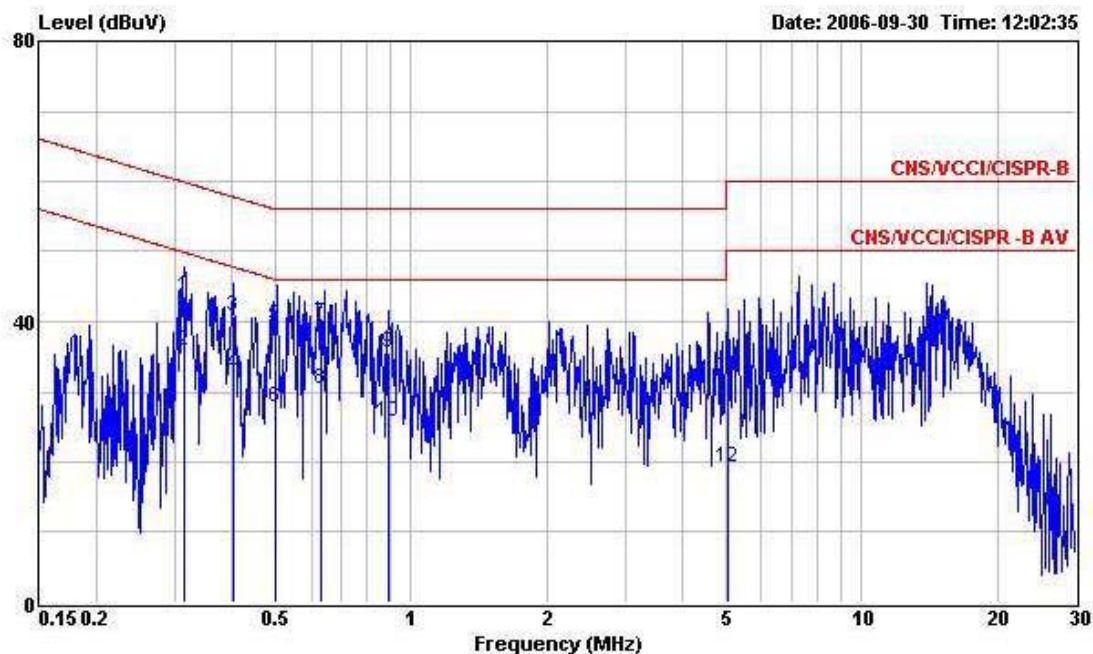
- Temperature: 24°C
- Relative Humidity: 48%
- Test Engineer : James

■ 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 200604 LINE
 EUT : PDA PHONE
 Power : 120V/60Hz
 Model : Torino
 Memo : CDMA2000 EVDO LINK+BT LINK+H PATTERN
 Memo : +USB LINK+EARPHONE 1 +ADAPTOR 1
 Memo :

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.313	46.36	-13.53	59.89	46.18	0.10	0.08	QP
2	0.313	39.84	-10.05	49.89	39.66	0.10	0.08	Average
3	0.400	44.29	-13.56	57.85	44.12	0.10	0.07	QP
4	0.400	36.01	-11.84	47.85	35.84	0.10	0.07	Average
5	0.497	35.34	-10.71	46.05	35.16	0.10	0.08	Average
6	0.497	43.99	-12.06	56.05	43.81	0.10	0.08	QP
7	0.672	44.24	-11.76	56.00	44.04	0.10	0.10	QP
8	0.672	34.89	-11.11	46.00	34.69	0.10	0.10	Average
9	4.930	37.00	-19.00	56.00	36.70	0.22	0.08	QP
10	4.930	23.85	-22.15	46.00	23.55	0.22	0.08	Average
11	9.009	40.06	-19.94	60.00	39.69	0.29	0.08	QP
12	9.009	28.53	-21.47	50.00	28.16	0.29	0.08	Average



Site : CO01-HY
Condition : CNS/VCCI/CISPR-B 2001/004 200604 NEUTRAL
EUT : PDA PHONE
Power : 120V/60Hz
Model : Torino
Memo : CDMA2000 EVDO LINK+BT LINK+H PATTERN
Memo : +USB LINK+EARPHONE 1 +ADAPTOR 1
Memo :

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.314	43.58	-16.27	59.85	43.40	0.10	0.08	QP
2	0.314	35.72	-14.13	49.85	35.54	0.10	0.08	Average
3	0.402	40.70	-17.11	57.81	40.53	0.10	0.07	QP
4	0.402	32.55	-15.26	47.81	32.38	0.10	0.07	Average
5	0.502	39.52	-16.48	56.00	39.34	0.10	0.08	QP
6	0.502	27.80	-18.20	46.00	27.62	0.10	0.08	Average
7	0.631	39.69	-16.31	56.00	39.50	0.10	0.09	QP
8	0.631	30.38	-15.62	46.00	30.19	0.10	0.09	Average
9	0.894	35.51	-20.49	56.00	35.30	0.10	0.11	QP
10	0.894	25.74	-20.26	46.00	25.53	0.10	0.11	Average
11	5.030	32.33	-27.67	60.00	32.13	0.12	0.08	QP
12	5.030	19.19	-30.81	50.00	18.99	0.12	0.08	Average



5.9 Radiated Emission Measurement

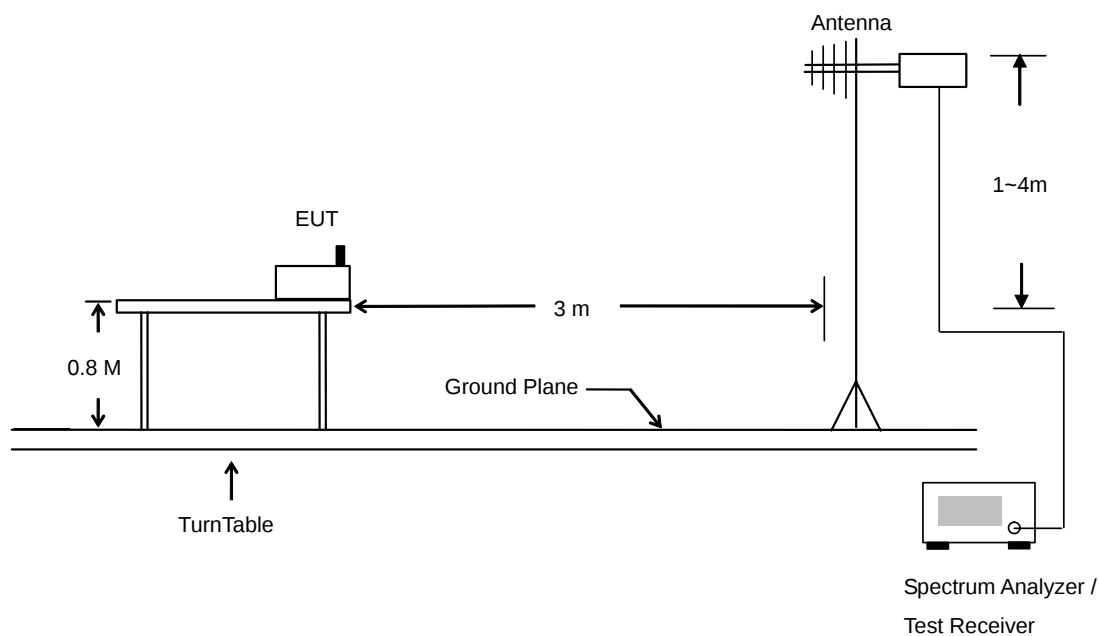
5.9.1 Measuring Instruments

As described in chapter 6 of this Report.

5.9.2 Test Procedures

1. The EUT was placed on a rotatable table top 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. 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.
5. 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.
6. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. 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.
8. 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

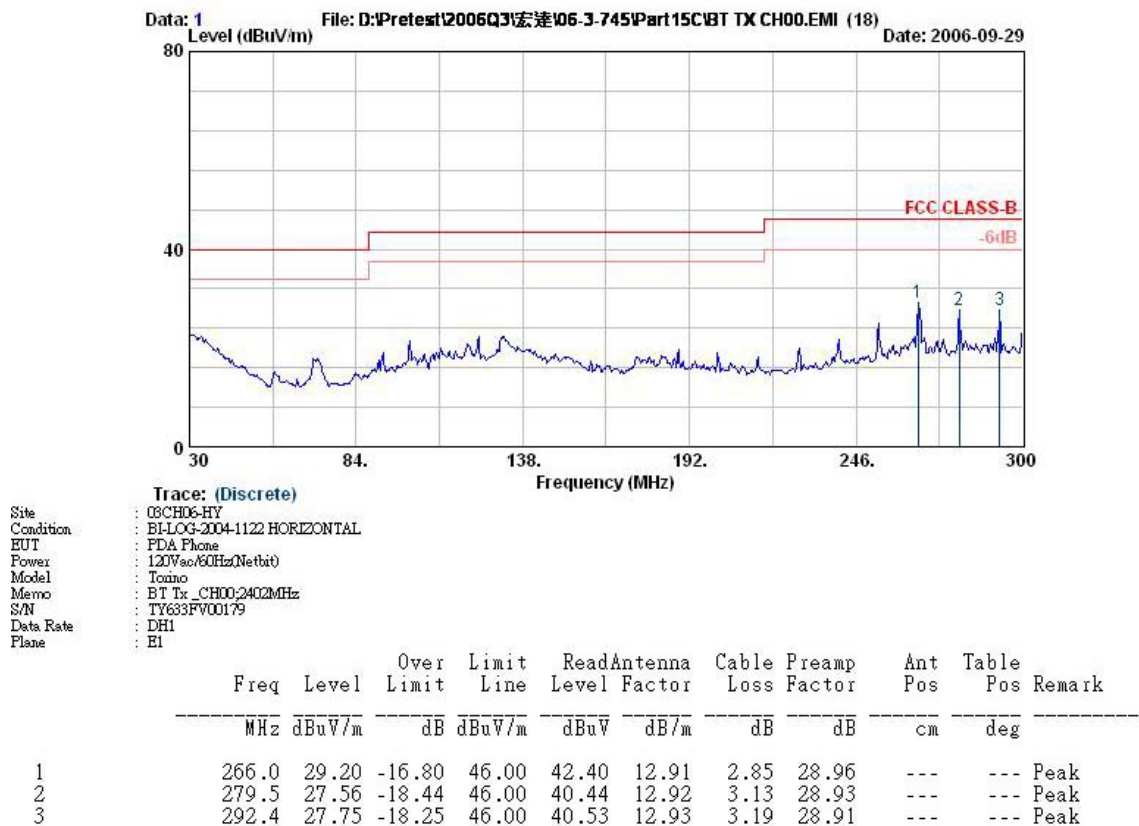


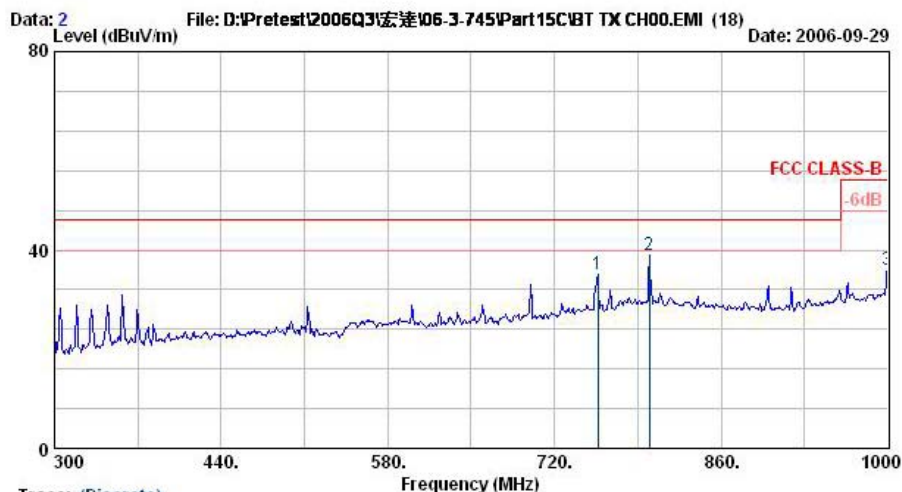


5.9.4 Test Data

- Temperature : 26°C
- Relative Humidity : 53 %
- Test Engineer : Sam
- Test Mode : Mode 1
- Polarization : Horizontal

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

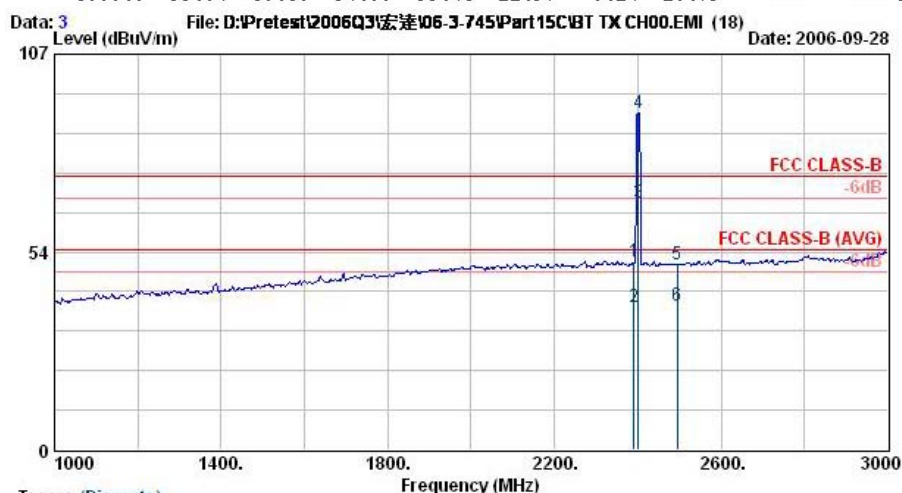




Trace: (Discrete)

Site : 08CH06-HY
Condition : B1-LOG-2004-1122 HORIZONTAL
EUT : FDA Phone
Power : 120V_{ac}/50Hz/Netbit
Model : Toxino
Memo : BT Tx _CH00;2402MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	756.4	34.97	-11.03	46.00	38.05	20.65	5.23	28.96	---	---
2 @	799.8	39.00	-7.00	46.00	40.34	21.90	5.62	28.87	108	113
3	1000.0	35.84	-18.16	54.00	35.41	22.97	6.24	28.79	---	---

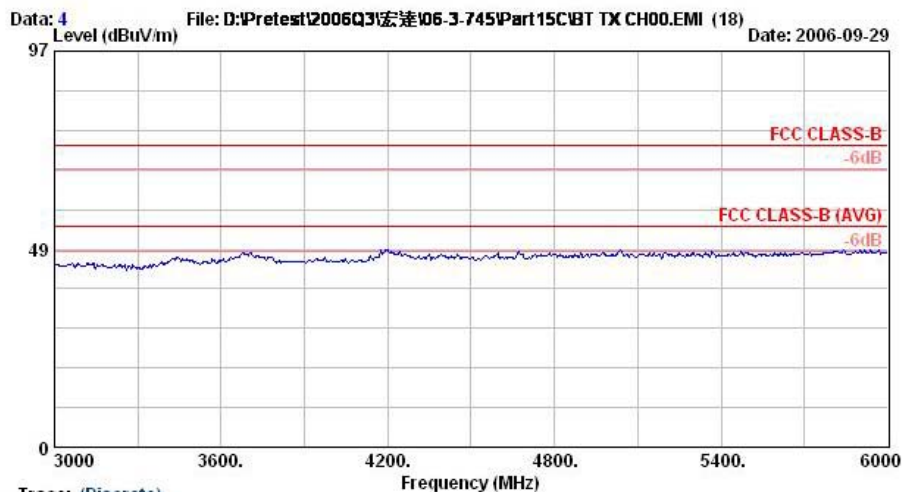


Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : FDA Phone
Power : 120V_{ac}/50Hz/Netbit
Model : Toxino
Memo : BT Tx _CH00;2402MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

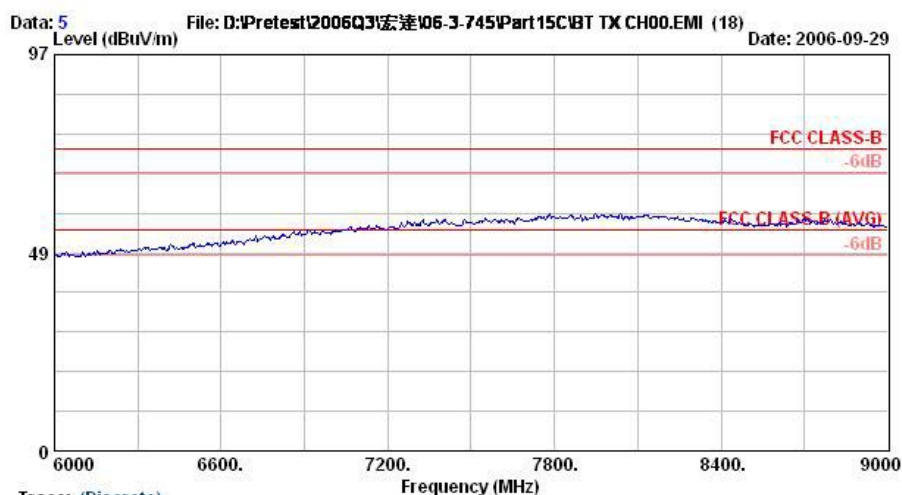
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.0	50.87	-23.13	74.00	51.51	30.24	4.54	35.42	100	0
2	2390.0	38.78	-15.22	54.00	39.42	30.24	4.54	35.42	104	24
3 @	2402.0	66.75			67.36	30.26	4.59	35.46	104	24
4 @	2402.0	90.94			91.52	30.27	4.61	35.46	100	0
5	2494.0	50.30	-23.70	74.00	50.84	30.30	4.69	35.53	100	0
6	2494.0	38.79	-15.21	54.00	39.33	30.30	4.69	35.53	104	24

Remark: #3 and #4 Fundamental Signal



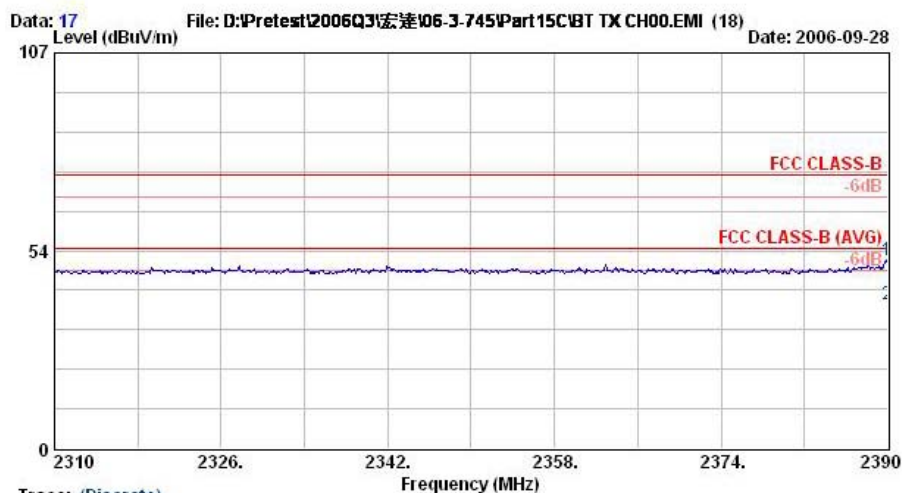
Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : FDA Phone
Power : 120Vac/60Hz/Netbit
Model : T02ino
Memo : BT Tx _CH00:2402MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1



Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : FDA Phone
Power : 120Vac/60Hz/Netbit
Model : T02ino
Memo : BT Tx _CH00:2402MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1



Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz/Netbit
Model : Tomino
Memo : BT Tx_CH00:2402MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

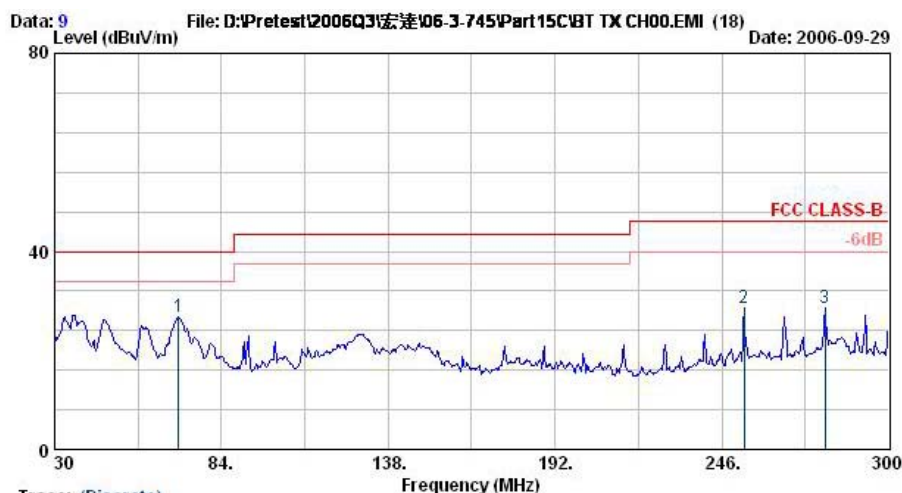
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2390.0	50.87	-23.13	74.00	51.48	30.26	4.59	35.46	100	0	Peak
2	2390.0	38.78	-15.22	54.00	39.39	30.26	4.59	35.46	104	24	Average

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



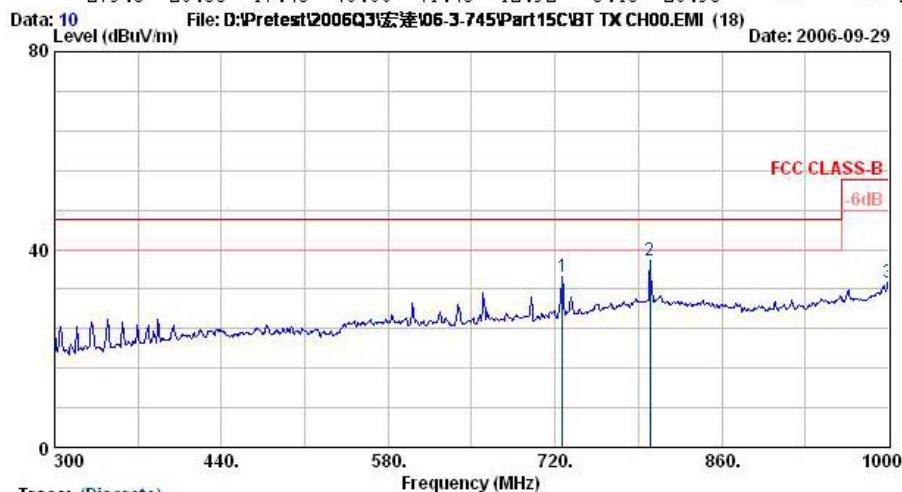
- Test Mode : Mode 1
- Polarization : Vertical

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



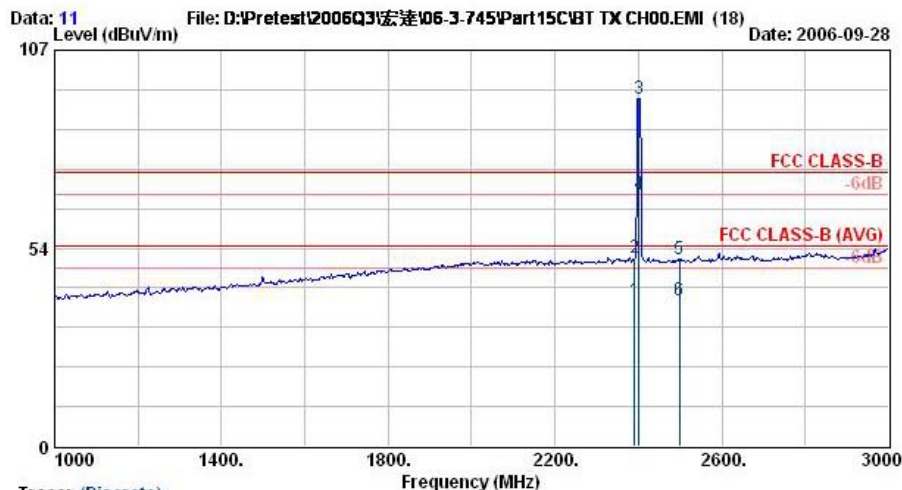
Trace: (Discrete)
Site : 08CH06-HY
Condition : BI-LOG-2004-1122 VERTICAL
EUT : FDA Phone
Power : 120Vac/60Hz/Netbit
Model : Tomino
Memo : BT Tx_CH00:2402MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	70.2	26.90	-13.10	40.00	47.96	6.26	1.36	28.68	---	---
2	253.3	28.64	-17.36	46.00	42.61	12.08	2.93	28.98	---	Peak
3	279.5	28.55	-17.45	46.00	41.43	12.92	3.13	28.93	---	Peak



Trace: (Discrete)
Site : 08CH06-HY
Condition : BI-LOG-2004-1122 VERTICAL
EUT : FDA Phone
Power : 120Vac/60Hz/Netbit
Model : Tomino
Memo : BT Tx_CH00:2402MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	726.3	34.45	-11.55	46.00	38.53	19.79	5.00	28.87	---	Peak
2 @	799.8	37.86	-8.14	46.00	39.21	21.90	5.62	28.87	112	230
3	1000.0	33.21	-20.79	54.00	32.79	22.97	6.24	28.79	---	Peak

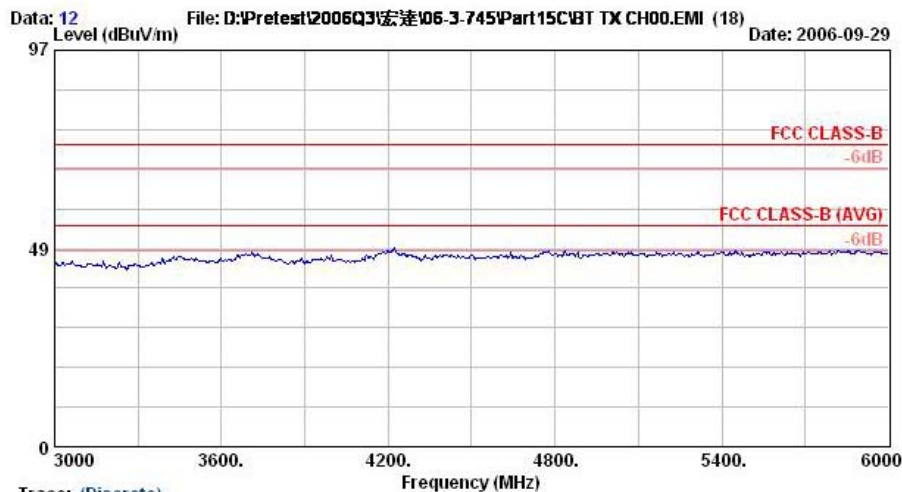


Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : FDA Phone
Power : 120Vac/60Hz/Netbit
Model : Toino
Memo : BT Tx_CH00;2402MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

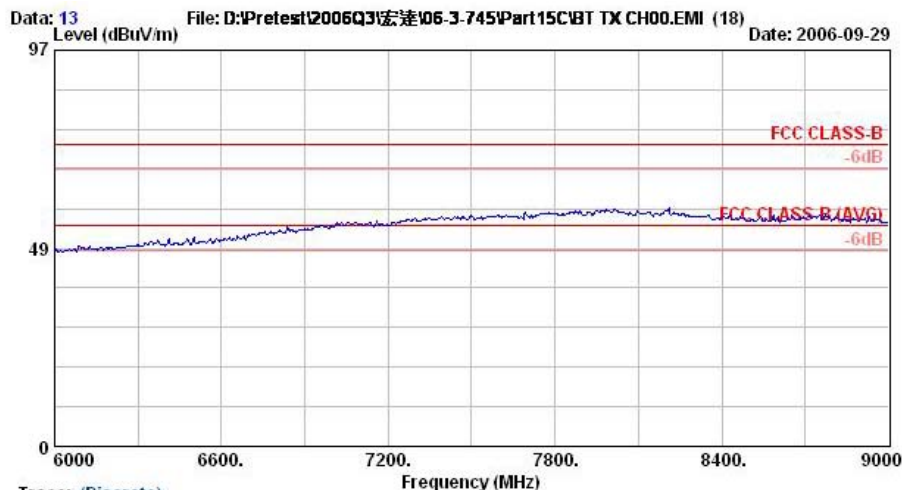
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.0	39.27	-14.73	54.00	39.88	30.26	4.59	35.46	100	33 Average
2	2390.0	50.80	-23.20	74.00	51.41	30.25	4.57	35.44	100	0 Peak
3 @	2402.0	93.87			94.46	30.27	4.61	35.46	100	0 Peak
4 @	2402.0	68.20			68.81	30.26	4.59	35.46	100	33 Average
5	2498.0	50.69	-23.31	74.00	51.23	30.30	4.69	35.53	100	0 Peak
6	2498.0	39.22	-14.78	54.00	39.76	30.30	4.69	35.53	100	33 Average

Remark: #3 and #4 Fundamental Signal

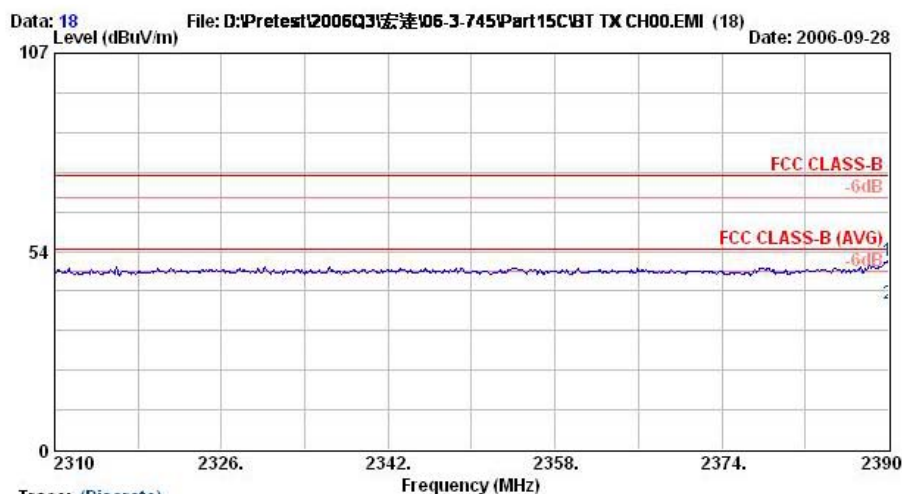


Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : FDA Phone
Power : 120Vac/60Hz/Netbit
Model : Toino
Memo : BT Tx_CH00;2402MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1



Site : 08CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : FDA Phone
Power : 120V_{ac}/60Hz/Netbit
Model : Tonino
Memo : BT Tx _CH00;2402MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1



Site : 08CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : FDA Phone
Power : 120V_{ac}/60Hz/Netbit
Model : Tonino
Memo : BT Tx _CH00;2402MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

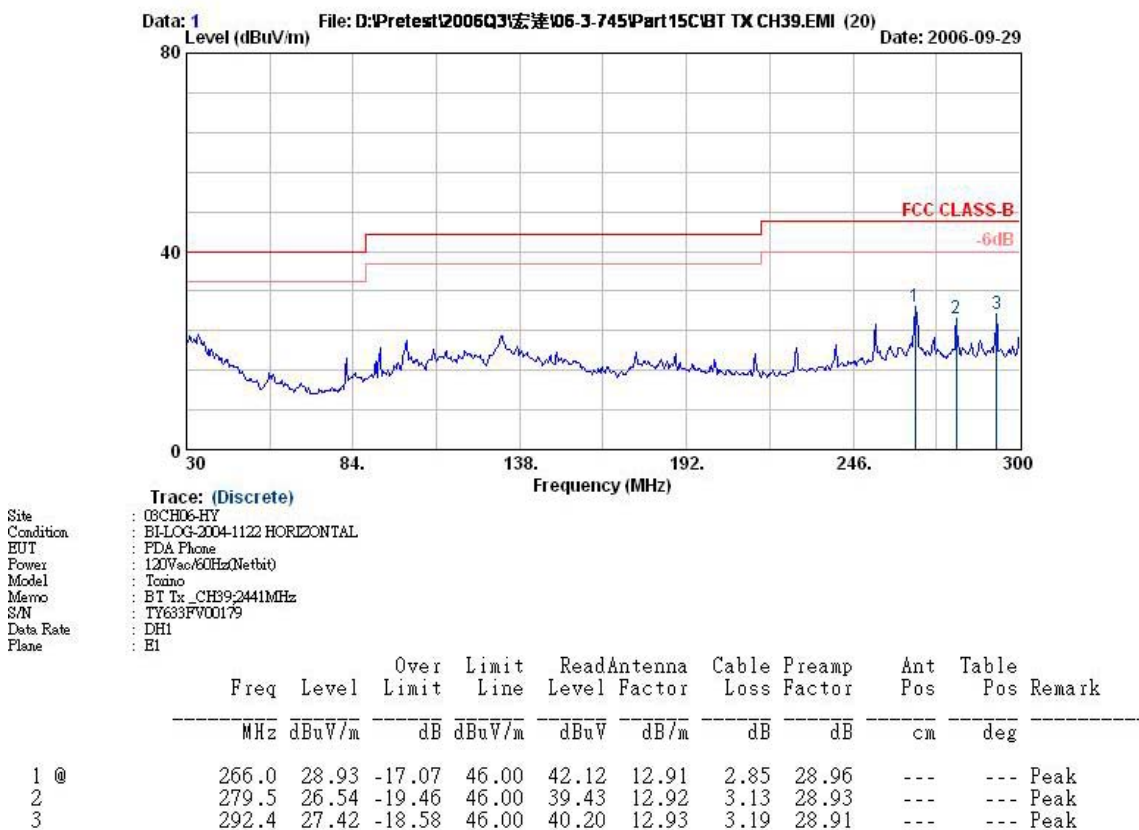
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level Factor	Loss Factor	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2390.0	50.80	-23.20	74.00	51.41	30.26	4.59	35.46	100	0 Peak
2 @	2390.0	39.27	-14.73	54.00	39.88	30.26	4.59	35.46	100	33 Average

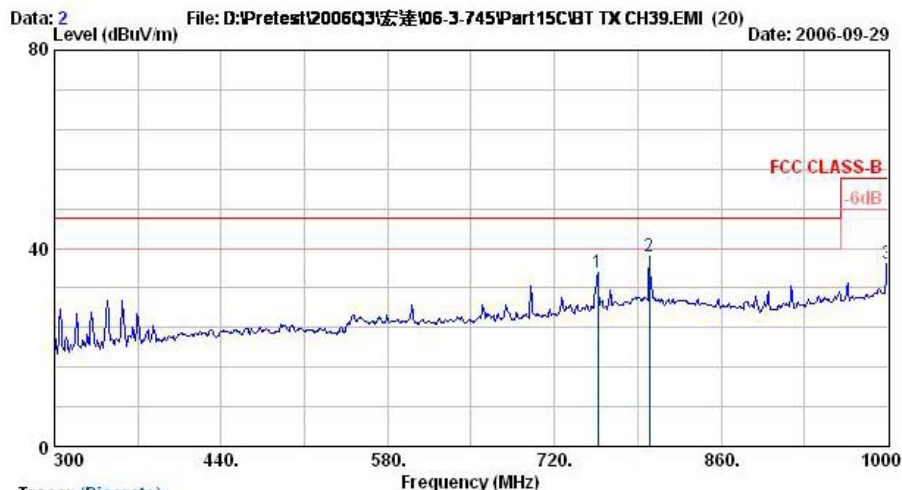
Remark: There's no more obvious spurious emission except the listings above.



- Test Mode : Mode 2
- Polarization : Horizontal

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

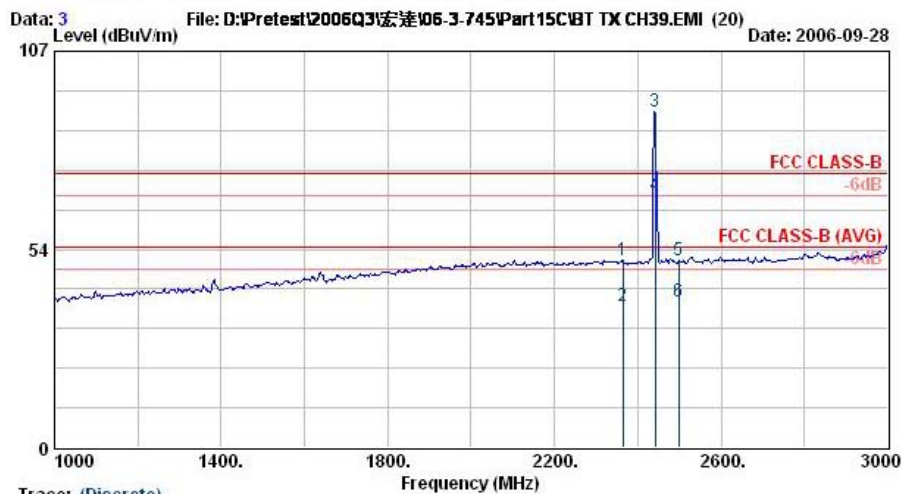




Trace: (Discrete)

Site : 08CH06-HY
Condition : BI-LOG-2004-1122 HORIZONTAL
EUT : FDA Phone
Power : 120V_{ac}/60Hz/Netbit
Model : Toino
Memo : BT Tx _CH39;2441MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor	Pos	Pos	
					dBuV	dB/m	dB	cm	deg	
1 @	756.4	35.12	-10.88	46.00	38.20	20.65	5.23	28.96	---	Peak
2 @	799.8	38.51	-7.49	46.00	39.86	21.90	5.62	28.87	100	Peak
3	1000.0	36.81	-17.19	54.00	36.39	22.97	6.24	28.79	---	Peak

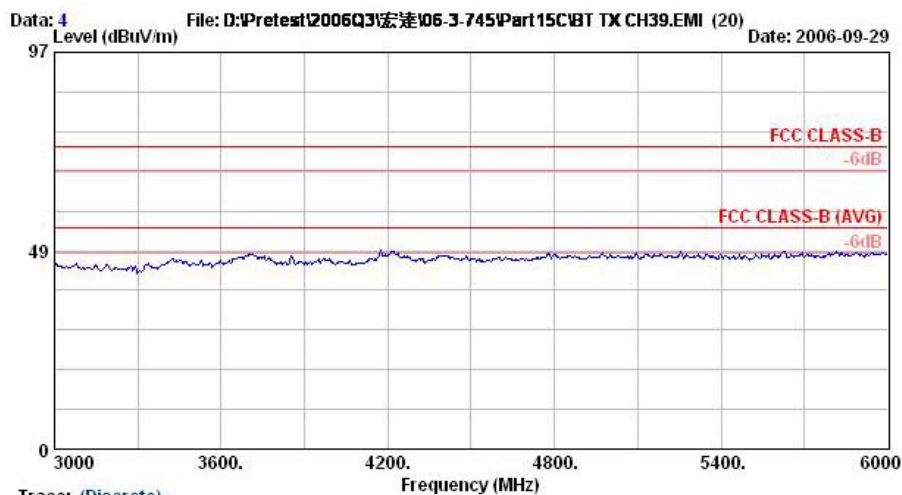


Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : FDA Phone
Power : 120V_{ac}/60Hz/Netbit
Model : Toino
Memo : BT Tx _CH39;2441MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor	Pos	Pos	
					dBuV	dB/m	dB	cm	deg	
1	2364.0	50.70	-23.30	74.00	51.31	30.24	4.56	35.42	100	0 Peak
2 @	2364.0	38.30	-15.70	54.00	38.92	30.24	4.56	35.42	102	18 Average
3 @	2441.0	90.67			91.22	30.28	4.64	35.47	100	0 Peak
4 @	2441.0	67.86			68.43	30.28	4.64	35.49	102	18 Average
5	2498.0	50.60	-23.40	74.00	51.13	30.30	4.69	35.53	100	0 Peak
6 @	2498.0	39.23	-14.77	54.00	39.77	30.30	4.69	35.53	102	18 Average

Remark: #3 and #4 Fundamental Signal



Trace: (Discrete)

Site : 08CH06-HY

Condition : HF-ANT-060410 HORIZONTAL

EUT : FDA Phone

Power : 120Vac/60Hz/Netbit

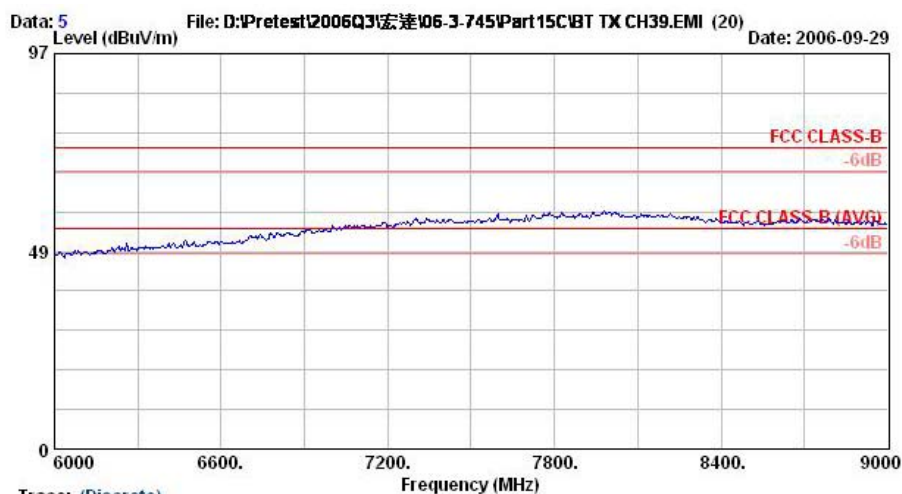
Model : Tonino

Memo : BT Tx _CH39;2441MHz

S/N : TY633FV00179

Data Rate : DH1

Plane : E1



Trace: (Discrete)

Site : 08CH06-HY

Condition : HF-ANT-060410 HORIZONTAL

EUT : FDA Phone

Power : 120Vac/60Hz/Netbit

Model : Tonino

Memo : BT Tx _CH39;2441MHz

S/N : TY633FV00179

Data Rate : DH1

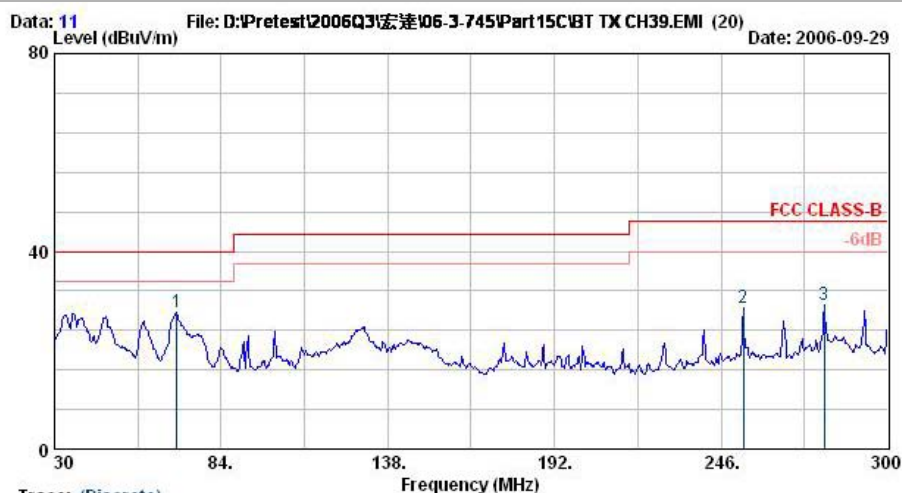
Plane : E1

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



- Test Mode : Mode 2
- Polarization : Vertical

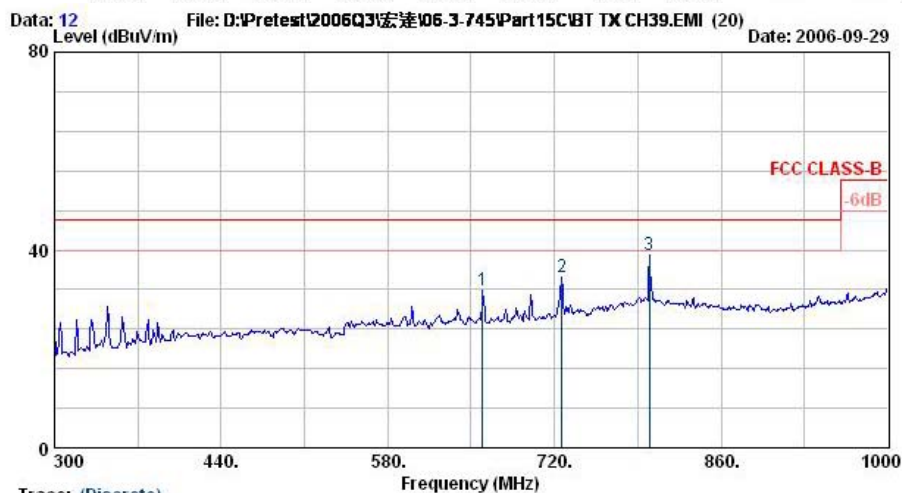
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 08CH06-HY
Condition : BI-LOG-2004-1122 VERTICAL
EUT : FDA Phone
Power : 120Vac/50Hz/Netbit
Model : Tommo
Memo : BT Tx_CH39;2441MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

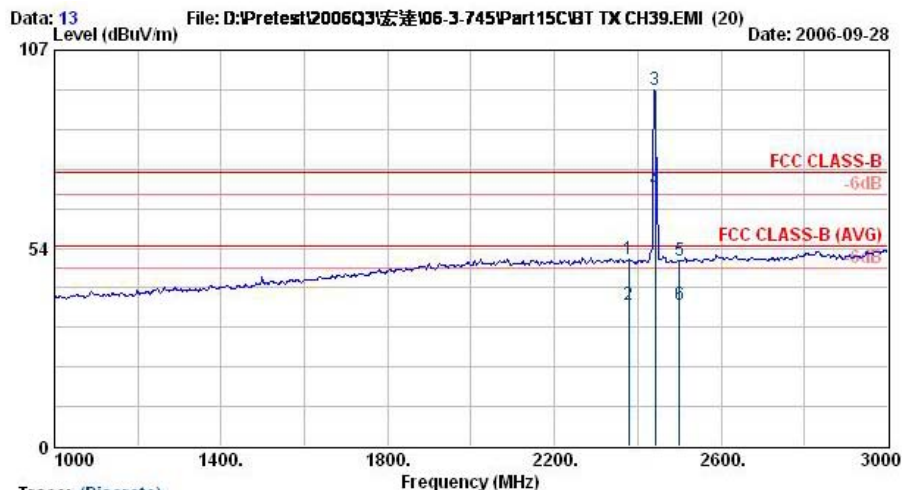
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1 @	69.7	27.71	-12.29	40.00	48.78	6.26	1.36	28.68	---	Peak
2	253.3	28.42	-17.58	46.00	42.39	12.08	2.93	28.98	---	Peak
3 @	279.5	29.25	-16.75	46.00	42.13	12.92	3.13	28.93	---	Peak



Trace: (Discrete)

Site : 08CH06-HY
Condition : BI-LOG-2004-1122 VERTICAL
EUT : FDA Phone
Power : 120Vac/50Hz/Netbit
Model : Tommo
Memo : BT Tx_CH39;2441MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

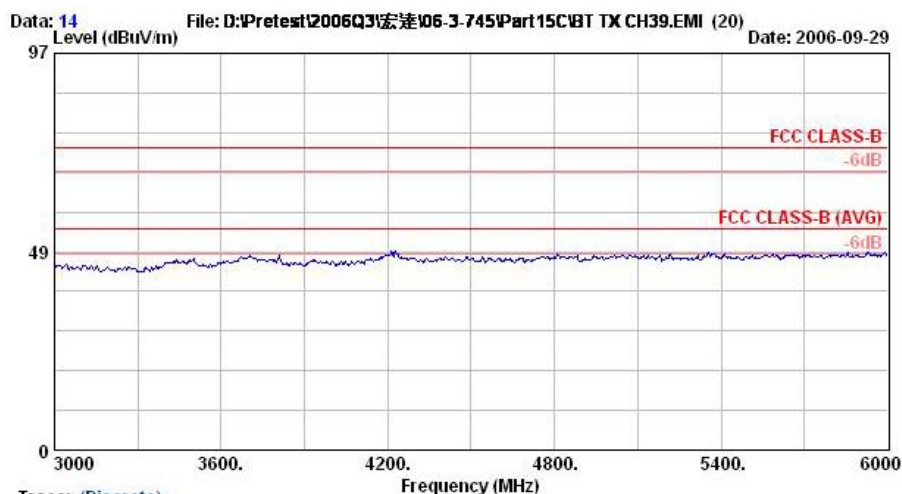
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1 @	659.8	31.95	-14.05	46.00	37.57	18.59	4.84	29.05	---	Peak
2 @	726.3	34.60	-11.40	46.00	38.68	19.79	5.00	28.87	---	Peak
3 @	799.8	39.03	-6.97	46.00	40.38	21.90	5.62	28.87	116	218 Peak



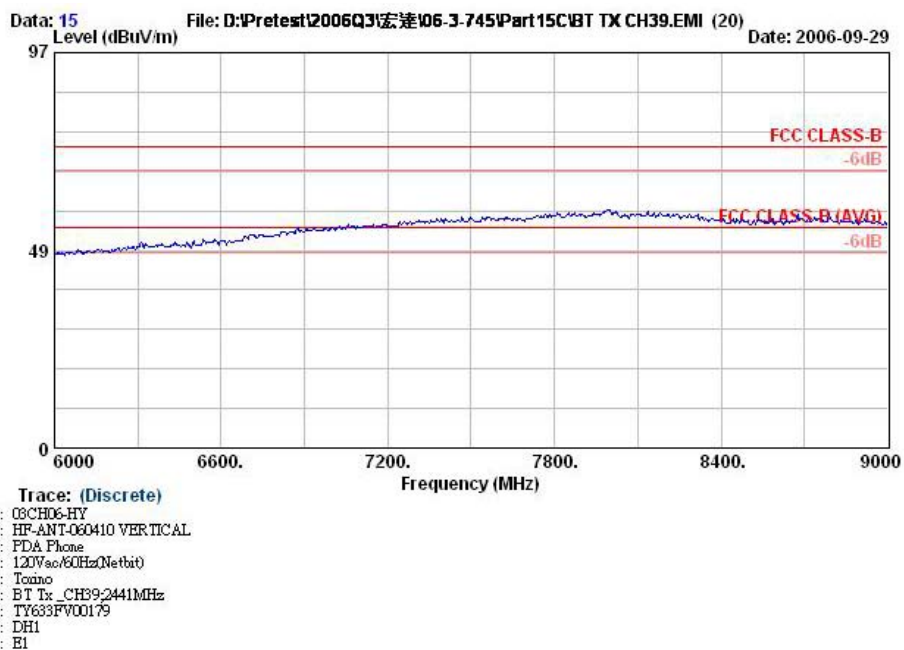
Site : 08CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : FDA Phone
Power : 120Vac/50Hz/Netbit
Model : Tonino
Memo : BT Tx_CH39:2441MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	2378.0	50.61	-23.39	74.00	51.22	30.25	4.57	35.44	100	0	Peak
2 @	2378.0	38.28	-15.72	54.00	38.83	30.28	4.64	35.47	100	87	Average
3 @	2441.0	96.22			96.78	30.28	4.64	35.47	100	0	Peak
4 @	2441.0	69.28			69.85	30.28	4.64	35.49	100	87	Average
5	2500.0	50.05	-23.95	74.00	50.58	30.30	4.69	35.53	100	0	Peak
6 @	2500.0	38.15	-15.85	54.00	38.69	30.30	4.69	35.53	100	87	Average

Remark: #3 and #4 Fundamental Signal



Site : 08CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : FDA Phone
Power : 120Vac/50Hz/Netbit
Model : Tonino
Memo : BT Tx_CH39:2441MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

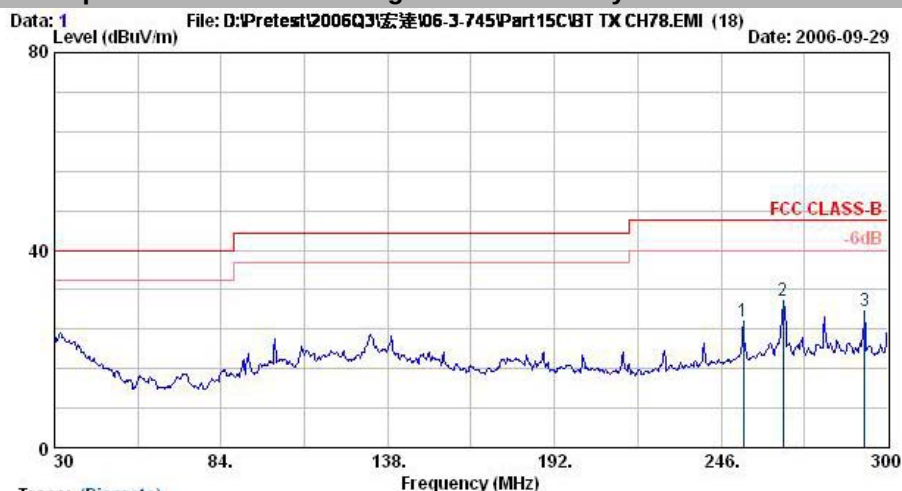


Remark: There's no more obvious spurious emission except the listings above.



- Test Mode : Mode 3
- Polarization : Horizontal

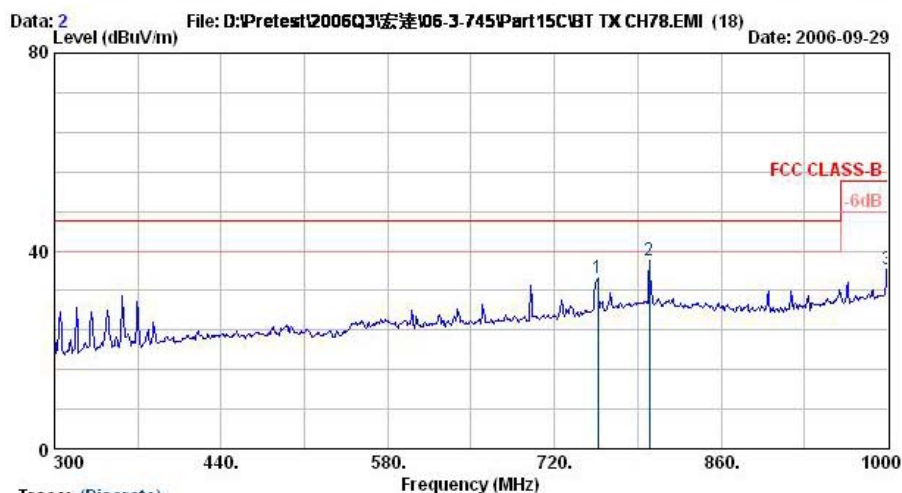
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 08CH06-HY
Condition : BI-LOG-2004-1122 HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz/Netbit
Model : Tomino
Memo : BT Tx_CH78:2480MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

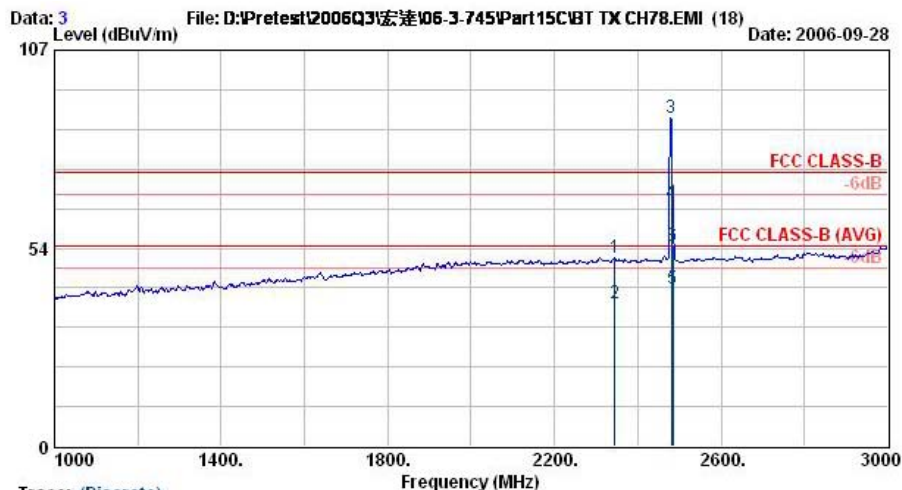
Line	Table 1										
	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm		deg
1	253.3	25.44	-20.56	46.00	39.41	12.08	2.93	28.98	---	---	Peak
2 @	266.0	29.77	-16.23	46.00	42.97	12.91	2.85	28.96	---	---	Peak
3	292.4	27.67	-18.33	46.00	40.45	12.93	3.19	28.91	---	---	Peak



Trace: (Discrete)

Site : 08CH06-HY
Condition : BI-LOG-2004-1122 HORIZONTAL
EUT : PDA Phone
Power : 120Vac/60Hz/Netbit
Model : Tomino
Memo : BT Tx_CH78:2480MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	756.4	34.42	-11.58	46.00	37.50	20.65	5.23	28.96	---	---
2 @	799.8	38.16	-7.84	46.00	39.51	21.90	5.62	28.87	122	189
3	1000.0	36.25	-17.75	54.00	35.83	22.97	6.24	28.79	---	---

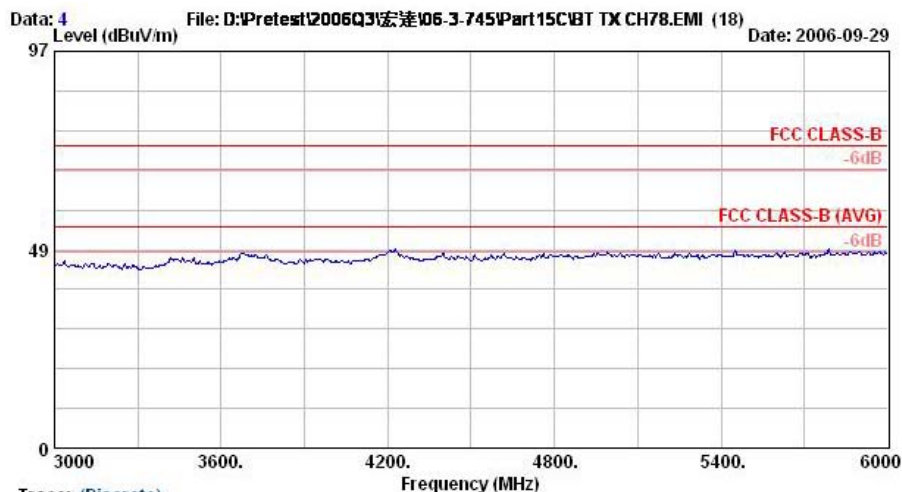


Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : FDA Phone
Power : 120Vac/60Hz/Netbit
Model : Tonino
Memo : BT Tx_CH78:2480MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

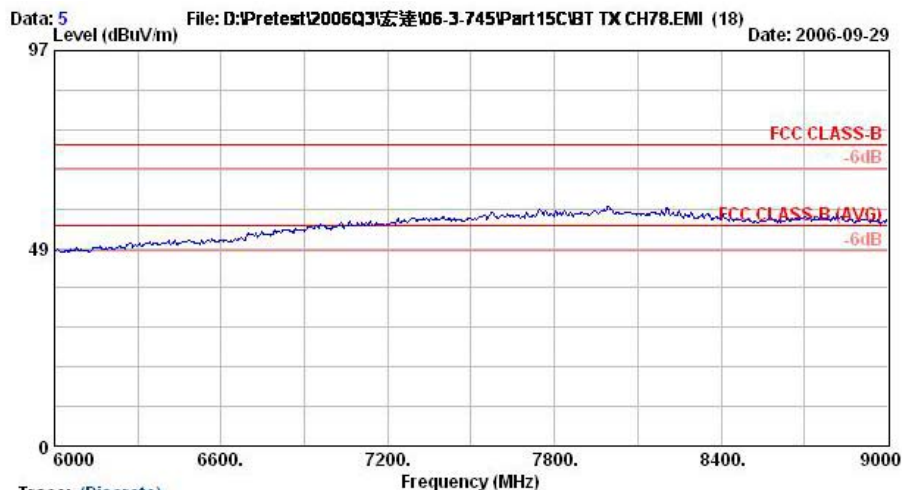
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2344.0	51.05	-22.95	74.00	51.69	30.24	4.54	35.42	100	0 Peak
2 @	2344.0	38.55	-15.45	54.00	39.19	30.24	4.54	35.42	100	14 Average
3 @	2480.0	88.72			89.26	30.29	4.67	35.51	100	0 Peak
4 @	2480.0	65.68			66.22	30.29	4.67	35.51	100	14 Average
5 @	2483.5	42.51	-11.49	54.00	43.05	30.29	4.67	35.51	100	14 Average
6	2483.5	54.00	-20.00	74.00	54.54	30.29	4.67	35.51	100	0 Peak

Remark: #3 and #4 Fundamental Signal



Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : FDA Phone
Power : 120Vac/60Hz/Netbit
Model : Tonino
Memo : BT Tx_CH78:2480MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1



Trace: (Discrete)

Site : 08CH06-HY

Condition : HF-ANT-060410 HORIZONTAL

EUT : PDA Phone

Power : 120Vac/50Hz/Netbit

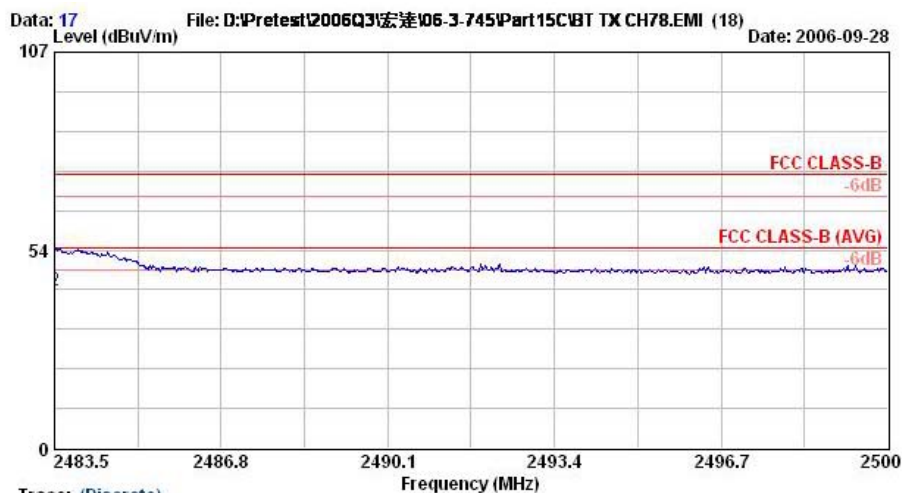
Model : Tomino

Memo : BT Tx _CH78;2480MHz

S/N : TY633FV00179

Data Rate : DH1

Plane : E1



Trace: (Discrete)

Site : 08CH06-HY

Condition : HF-ANT-060410 HORIZONTAL

EUT : PDA Phone

Power : 120Vac/50Hz/Netbit

Model : Tomino

Memo : BT Tx _CH78;2480MHz

S/N : TY633FV00179

Data Rate : DH1

Plane : E1

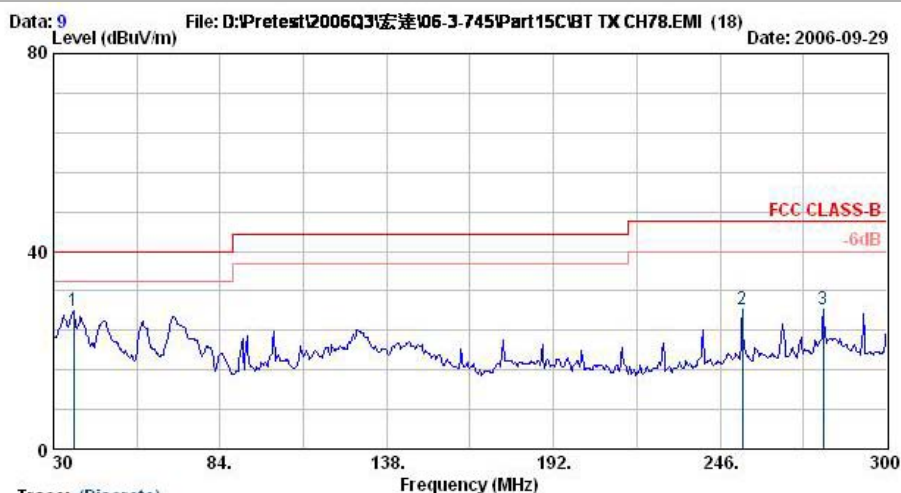
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2483.5	54.00	-20.00	74.00	54.54	30.29	4.67	35.51	100	0 Peak
2 @	2483.5	42.51	-11.49	54.00	43.05	30.29	4.67	35.51	100	14 Average

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



- Test Mode : Mode 3
- Polarization : Vertical

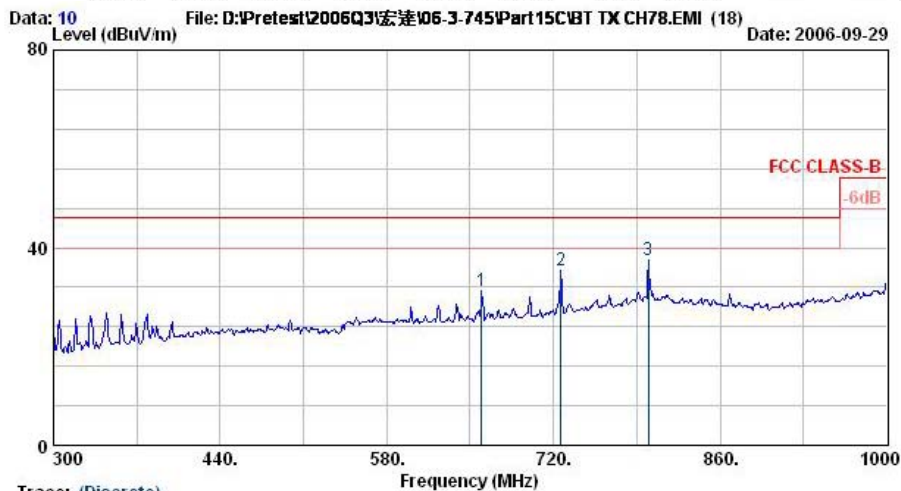
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 08CH06-HY
Condition : BI-LOG-2004-1122 VERTICAL
EUT : FDA Phone
Power : 120Vac/50Hz/Netbit
Model : Toinno
Memo : BT Tx_CH78;2480MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

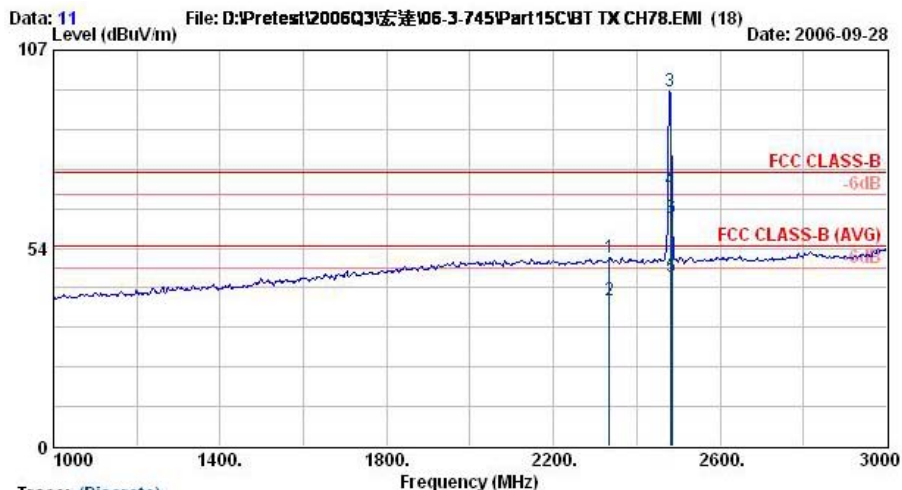
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	36.5	27.97	-12.03	40.00	39.30	16.17	1.16	28.65	---	Peak
2	253.3	28.34	-17.66	46.00	42.31	12.08	2.93	28.98	---	Peak
3	279.5	28.15	-17.85	46.00	41.03	12.92	3.13	28.93	---	Peak



Trace: (Discrete)

Site : 08CH06-HY
Condition : BI-LOG-2004-1122 VERTICAL
EUT : FDA Phone
Power : 120Vac/50Hz/Netbit
Model : Toinno
Memo : BT Tx_CH78;2480MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

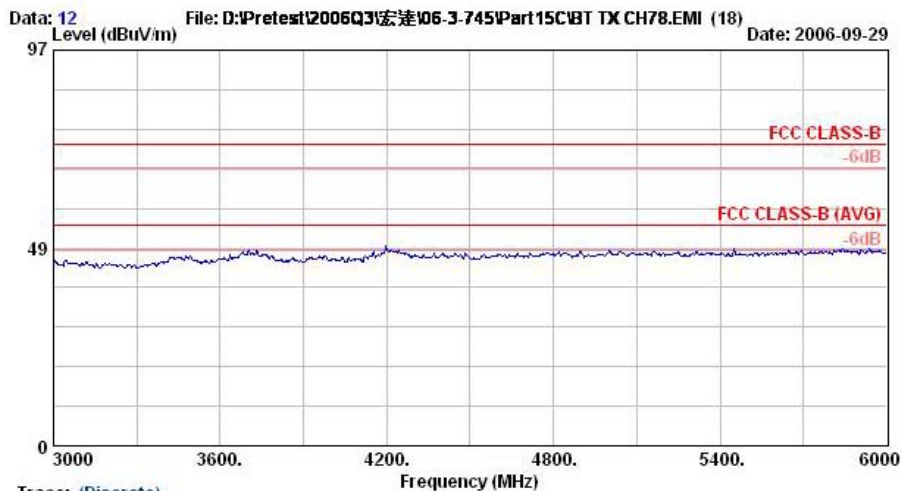
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	659.8	31.27	-14.73	46.00	36.90	18.59	4.84	29.05	---	Peak
2 @	726.3	35.40	-10.60	46.00	39.48	19.79	5.00	28.87	---	Peak
3 @	799.8	37.60	-8.40	46.00	38.95	21.90	5.62	28.87	121	260



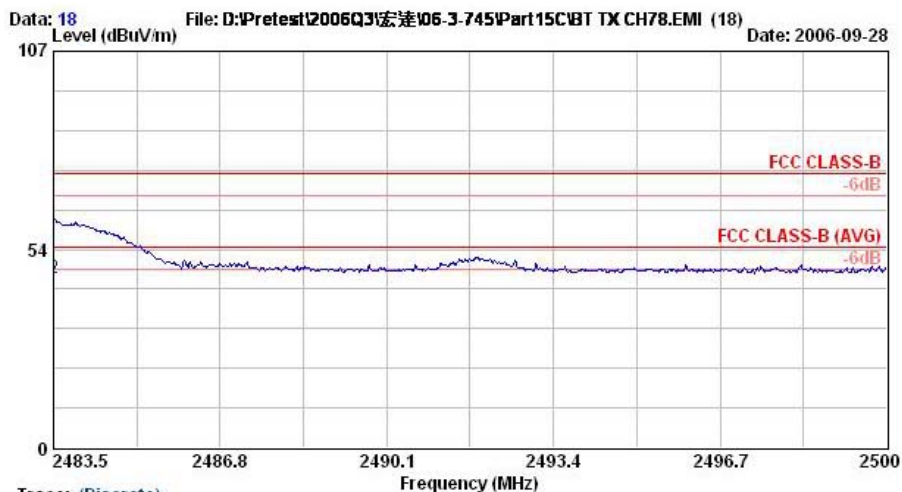
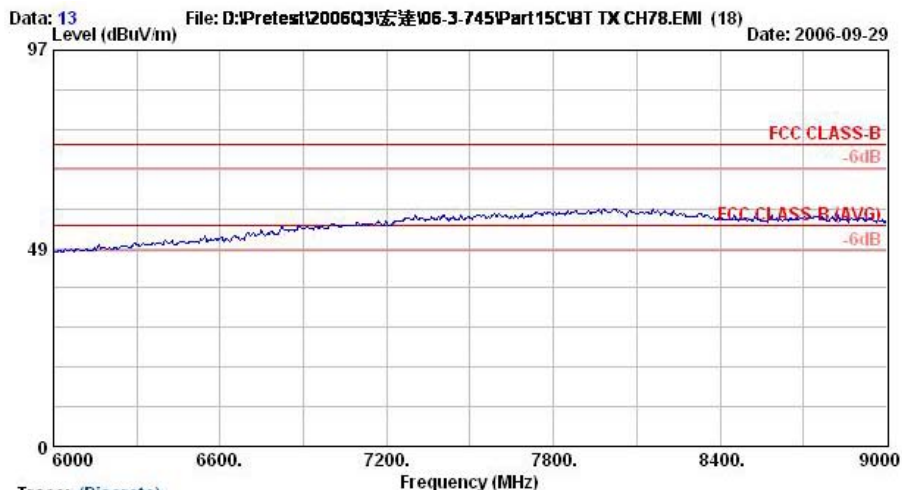
Site : 08CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : FDA Phone
Power : 120Vac/60Hz/Netbit
Model : Toinno
Memo : BT Tx _CH78:2480MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor	Pos	Pos	Remark
					dBuV	dB/m	dB	cm	deg	
1	2334.0	50.94	-23.06	74.00	51.59	30.23	4.52	35.40	100	0 Peak
2 @	2334.0	39.54	-14.46	54.00	40.19	30.23	4.52	35.40	104	80 Average
3 @	2480.0	96.05			96.59	30.29	4.67	35.51	100	0 Peak
4 @	2480.0	69.39			69.93	30.29	4.67	35.51	104	80 Average
5 @	2483.5	45.90	-8.10	54.00	46.44	30.29	4.67	35.51	104	80 Average
6 @	2483.5	61.71	-12.29	74.00	62.25	30.29	4.67	35.51	100	0 Peak

Remark: #3 and #4 Fundamental Signal



Site : 08CH06-HY
Condition : HF-ANT-060410 VERTICAL
EUT : FDA Phone
Power : 120Vac/60Hz/Netbit
Model : Toinno
Memo : BT Tx _CH78:2480MHz
S/N : TY633FV00179
Data Rate : DH1
Plane : E1



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level Factor	Loss Factor	Loss Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 @	2483.5	61.71	-12.29	74.00	62.26	30.29	4.67	35.51	100	0 Peak
2 @	2483.5	45.90	-8.10	54.00	46.44	30.29	4.67	35.51	104	80 Average

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



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 a fixed internal antenna without connector and it is considered to meet antenna requirement of FCC.

5.10.3 Antenna Gain

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



6. List of Measuring Equipments Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100132	9kHz – 2.75GHz	Jun. 28, 2006	Jun. 28, 2007	Conduction (CO01-HY)
LISN	MessTec	NNB-2/16Z	2001/008	9kHz – 30MHz	Mar. 29, 2006	Mar. 29, 2007	Conduction (CO01-HY)
LISN (Support Unit)	MessTec	NNB-2/16Z	2001/009	9kHz – 30MHz	Apr. 19, 2006	Apr. 19, 2007	Conduction (CO01-HY)
EMI Filter	LINDGREN	LRE-2060	1004	< 450Hz	N/A	N/A	Conduction (CO01-HY)
EMI Filter	LINDGREN	N6006	201052	0 – 60Hz	N/A	N/A	Conduction (CO01-HY)
RF Cable-CON	Suhner Switzerland	RG223/U	CB029	9kHz – 30MHz	Dec. 04, 2006	Dec. 04, 2007	Conduction (CO01-HY)
Spectrum analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Jul. 25, 2006	Jul. 24, 2007	Radiation (03CH06-HY)
Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 25, 2006	Jul. 24, 2007	Radiation (03CH06-HY)
Controller	CT	SC100	N/A	N/A	Jun. 28, 2006	Jun. 27, 2007	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	N/A	N/A	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Feb. 1, 2005	Feb. 1, 2007	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Feb. 1, 2005	Feb. 1, 2007	Radiation (03CH06-HY)
HF Amplifier	MITEQ	AFS44	973248	0.1G - 26.5G	Jul. 21, 2006	Jul. 20, 2007	Radiation (03CH06-HY)
Amplifier	MITEQ	AMF-6F	997165	26G - 40G	Jul. 21, 2006	Jul. 20, 2007	Radiation (03CH06-HY)
Turn Table	HD	DS 420	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)

7. Uncertainty Evaluation

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

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

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

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.15	Normal(k=2)	0.08
Antenna factor calibration	1.12	Normal(k=2)	0.56
Cable loss calibration	0.12	Normal(k=2)	0.06
Pre Amplifier Gain calibration	0.13	Normal(k=2)	0.07
RCV/SPA specification	2.5	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1	Rectangular	0.29
Site imperfection	2.1	Rectangular	1.21
Mismatch	+0.39/-0.41	U-shaped	0.28
combined standard uncertainty Uc(y)	1.58		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	3.16		

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				

Appendix A. Set up Photograph

Conducted Emission

FRONT VIEW



REAR VIEW



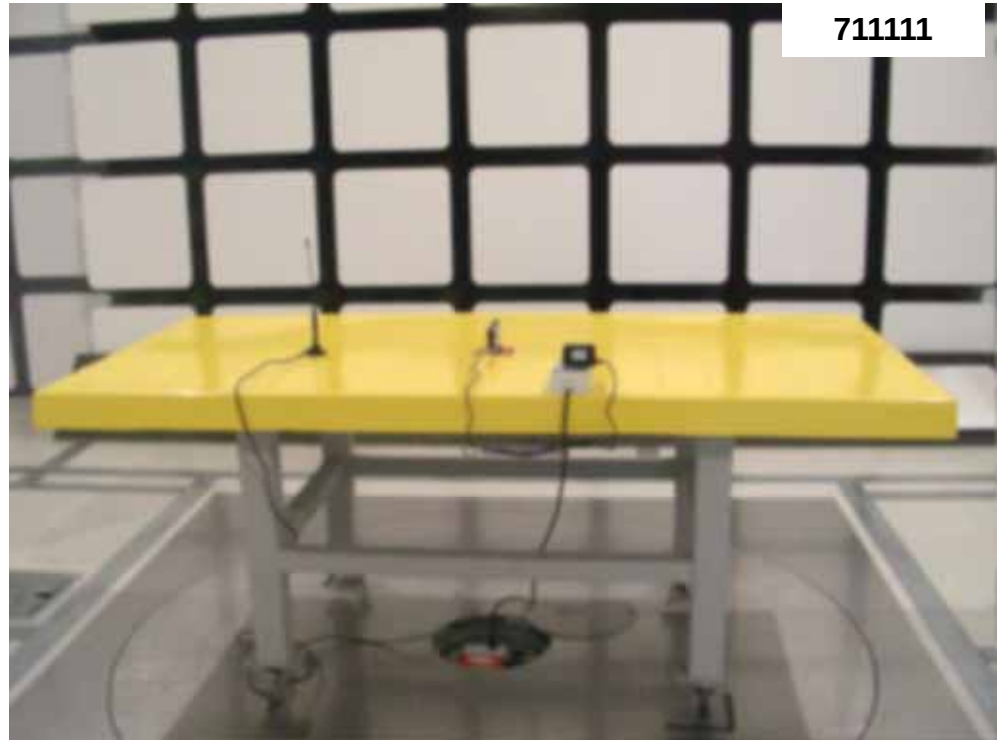
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SIDE VIEW



Radiation Emission

FRONT VIEW



REAR VIEW

