

FCC TEST REPORT

REPORT NO.: RF940801A03

MODEL NO.: 26-50701

RECEIVED: Aug. 1, 2005

TESTED: Aug. 8 ~ 9, 2005

ISSUED: Sep. 22, 2005

APPLICANT: PRIMAX ELECTRONICS LTD.

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1 CERTIFICATION

PRODUCT : BT 2.0 dongle
BRAND NAME : PRIMAX
MODEL NO. : 26-50701
APPLICANT : PRIMAX ELECTRONICS LTD.
TESTED : Aug. 8 ~ 9, 2005
TEST SAMPLE : ENGINEERING SAMPLE
STANDARDS : FCC Part 15, Subpart C (Section 15.247)
ANSI C63.4-2003

The above equipment has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Annie Chang, **DATE:** Sep. 22, 2005
(Annie Chang)

TECHNICAL ACCEPTANCE : Ken Liu, **DATE:** Sep. 22, 2005
Responsible for RF (Ken Liu)

APPROVED BY : Cody Chang, **DATE:** Sep. 22, 2005
(Cody Chang / Deputy Manager)

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
Standard Section	Test Type and Limit	Result	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit Minimum passing margin is -15.13 dB at 0.154 MHz
15.247(a)(1) (iii)	Number of Hopping Frequency Used Spec.: At least 15 channels	PASS	Meet the requirement of limit
15.247(a)(1) (iii)	Dwell Time on Each Channel Spec.: Max. 0.4 second within 31.6 second	PASS	Meet the requirement of limit
15.247(a)(1)	Hopping Channel Separation Spec. : Min. 25 kHz or 20 dB bandwidth, whichever is greater Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	PASS	Meet the requirement of limit
15.247(b)	Maximum Peak Output Power Spec.: max. 30dBm	PASS	Meet the requirement of limit
15.247(d)	Transmitter Radiated Emissions Spec.: Table 15.209	PASS	Meet the requirement of limit Minimum passing margin is -4.63 dB at 2483.50 MHz
15.247(d)	Band Edge Measurement	PASS	Meet the requirement of limit

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

MEASUREMENT	UNCERTAINTY
Conducted emissions	2.44 dB
Radiated emissions	3.86 dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	BT 2.0 dongle
MODEL NO.	26-50701
POWER SUPPLY	DC 5V from host equipment
MODULATION TYPE	GFSK
MODULATION TECHNOLOGY	FHSS
TRANSFER RATE	723Kbps
FREQUENCY RANGE	2402 MHz ~ 2480 MHz
NUMBER OF CHANNEL	79
OUTPUT POWER	1.021mW
ANTENNA TYPE	Printed antenna with -3.5dBi gain
DATA CABLE	N/A
I/O PORTS	USB

NOTE:

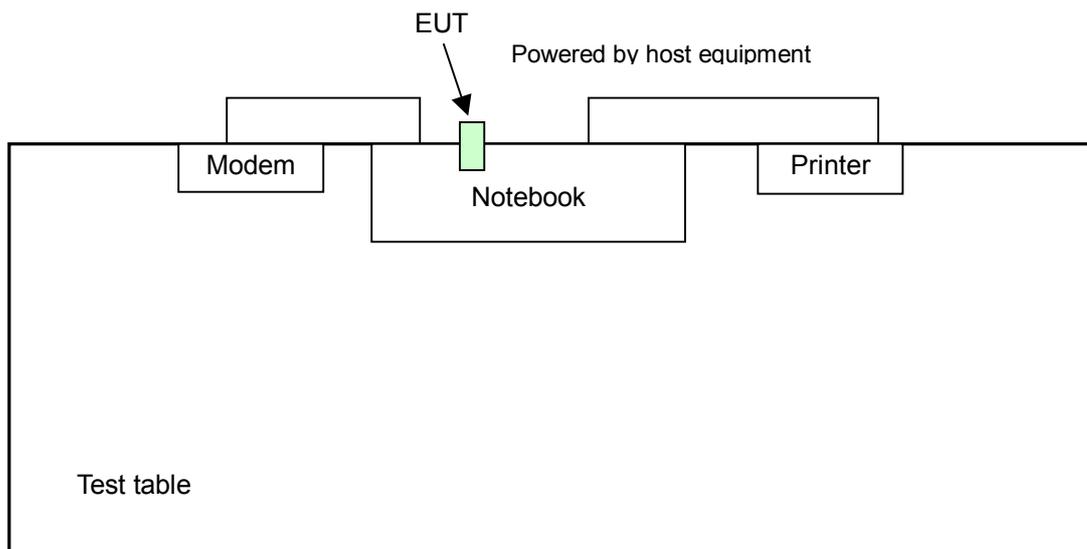
1. The EUT is a wireless dongle, with Bluetooth technology.
2. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

79 channels are provided to this EUT.

Channel	Freq. (MHz)						
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2431	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST





3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Applicable to				Description
PLC	RE<1G	RE≥1G	APCM	
√	√	√	√	-

Where PLC: Power Line Conducted Emission RE<1G RE: Radiated Emission below 1GHz
 RE≥1G: Radiated Emission above 1GHz APCM: Antenna Port Conducted Measurement

Power Line Conducted Emission Test:

- Following channel(s) was (were) selected for the final test as listed below.

Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
0 to 78	0, 39, 78	FHSS	GFSK	DH5

Radiated Emission Test (Below 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types.
- Following channel(s) was (were) selected for the final test as listed below.

Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
0 to 78	78	FHSS	GFSK	DH5

Radiated Emission Test (Above 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types.
- Following channel(s) was (were) selected for the final test as listed below.

Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
0 to 78	0, 39, 78	FHSS	GFSK	DH5

Bandedge Measurement:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types.
- Following channel(s) was (were) selected for the final test as listed below.

Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
0 to 78	0, 78	FHSS	GFSK	DH5

Antenna Port Conducted Measurement:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types.
- Following channel(s) was (were) selected for the final test as listed below.

Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
0 to 78	0, 39, 78	FHSS	GFSK	DH5

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a BT 2.0 dongle. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. (15.247)
ANSI C63.4-2003

All test items have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.4 DESCRIPTION OF SUPPORT UNITS

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook	DELL	D600	CN-0G5152- 48643-49C- 8398	FCC DoC Approved
2	PRINTER	EPSON	LQ-300+	DCGY017054	FCC DoC Approved
3	MODEM	ACEEX	1414	980020520	IFAXDM1414

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	1.8m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core
3	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.

NOTE: All power cords of the above support units are non-shielded (1.8m).

4 TEST PROCEDURES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	838251/021	Dec. 5, 2005
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	100218	Dec. 1, 2005
LISN With Adapter (for EUT)	AD10	C10Ada-001	Dec. 1, 2005
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100219	Dec. 1, 2005
ROHDE & SCHWARZ Artificial Mains Network (for peripherals)	ESH3-Z5	100220	Dec. 1, 2005
Software	ADT_Cond_V7.3.2	NA	NA
Software	ADT_ISN_V7.3.2	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C10.01	Apr. 05, 2006
SUHNER Terminator (For ROHDE & SCHWARZ LISN)	65BNC-5001	E1-010773	Mar. 04, 2006

- NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in ADT Shielded Room No. 10.
 3. The VCCI Site Registration No. C-1852.

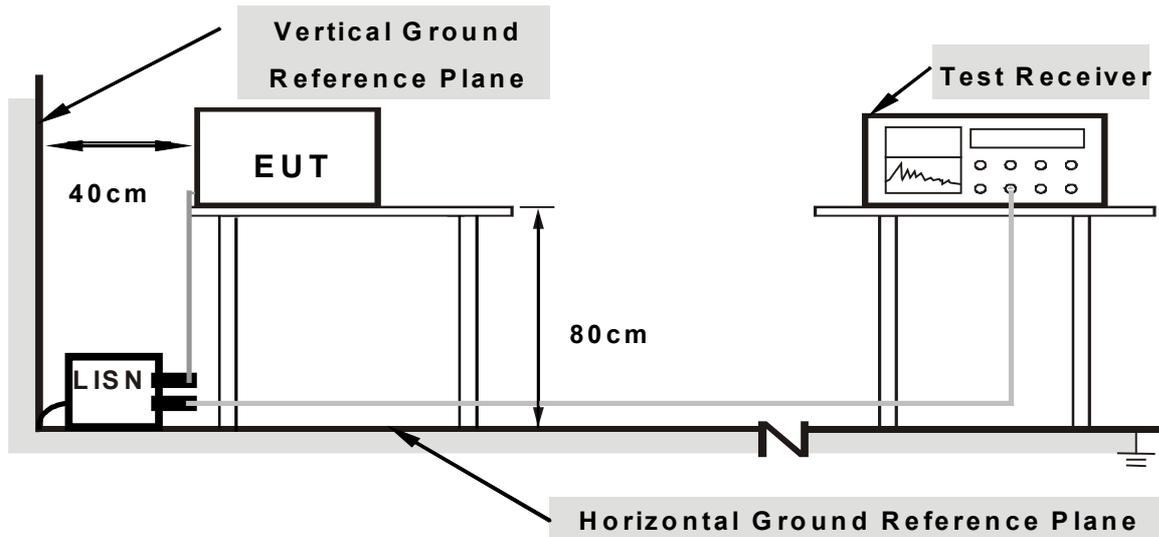
4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under Limit - 20dB was not recorded.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

4.1.5 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

- a. Connected the EUT to a notebook system placed on a testing table.
- b. The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- c. The notebook system sent "H" messages to its screen.
- d. The notebook system sent "H" messages to printer and the printer prints them out
- e. The notebook system sent "H" messages to modem.

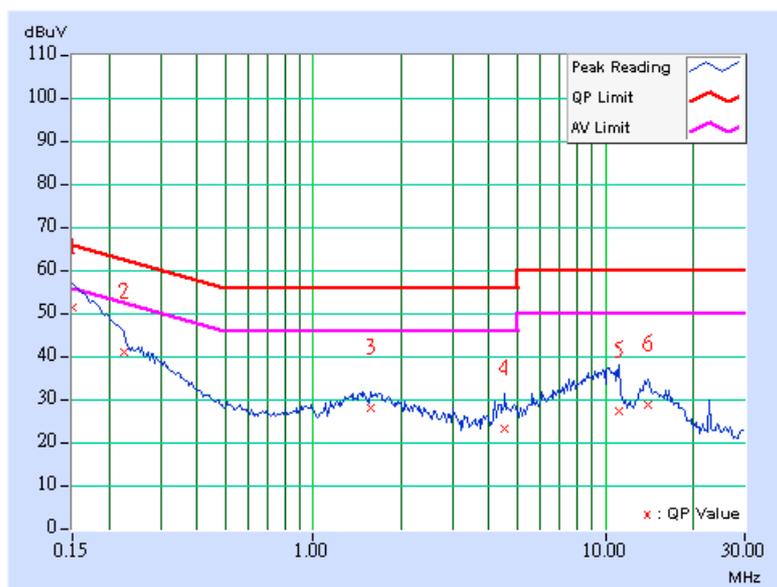
4.1.7 TEST RESULTS

Conducted Worst-Case Data

EUT	BT 2.0 dongle	MEASUREMENT DETAIL	
CHANNEL	Channel 0	MODEL	26-50701
INPUT POWER (SYSTEM)	120Vac, 60 Hz	MODULATION TYPE	GFSK
ENVIRONMENTAL CONDITIONS	27deg. C, 70%RH, 998hPa	6dB BANDWIDTH	9 kHz
TESTED BY	Jamison Chan	PHASE	Line 1

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.150	0.20	50.40	-	50.60	-	66.00
2	0.224	0.20	40.08	-	40.28	-	62.66	52.66	-22.38	-
3	1.578	0.26	27.23	-	27.49	-	56.00	46.00	-28.51	-
4	4.531	0.43	22.15	-	22.58	-	56.00	46.00	-33.42	-
5	11.098	0.79	26.56	-	27.35	-	60.00	50.00	-32.65	-
6	13.949	1.02	28.00	-	29.02	-	60.00	50.00	-30.98	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

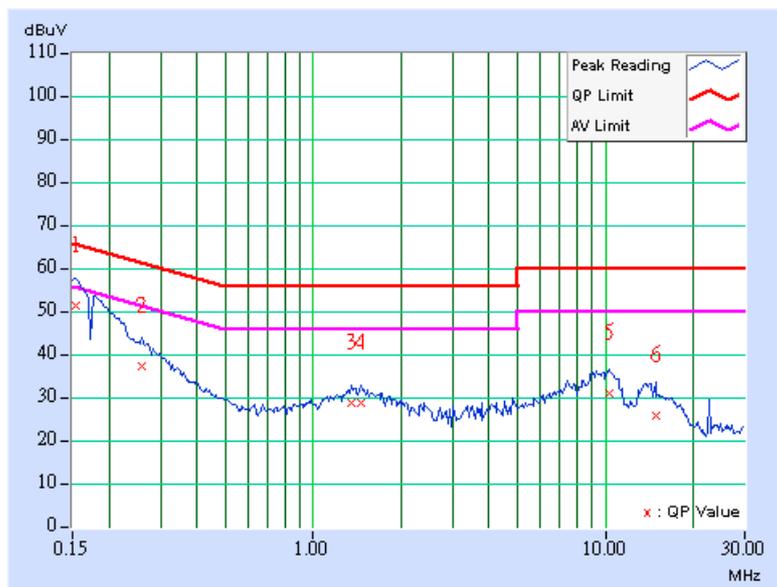




EUT	BT 2.0 dongle	MEASUREMENT DETAIL	
CHANNEL	Channel 0	MODEL	26-50701
INPUT POWER (SYSTEM)	120Vac, 60 Hz	MODULATION TYPE	GFSK
ENVIRONMENTAL CONDITIONS	27deg. C, 70%RH, 998hPa	6dB BANDWIDTH	9 kHz
TESTED BY	Jamison Chan	PHASE	Line 2

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.154	0.20	50.46	-	50.66	-	65.79	55.79	-15.13	-
2	0.259	0.20	36.52	-	36.72	-	61.45	51.45	-24.73	-
3	1.348	0.23	28.06	-	28.29	-	56.00	46.00	-27.71	-
4	1.453	0.25	28.04	-	28.29	-	56.00	46.00	-27.71	-
5	10.285	0.71	30.39	-	31.10	-	60.00	50.00	-28.90	-
6	14.867	0.89	25.09	-	25.98	-	60.00	50.00	-34.02	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

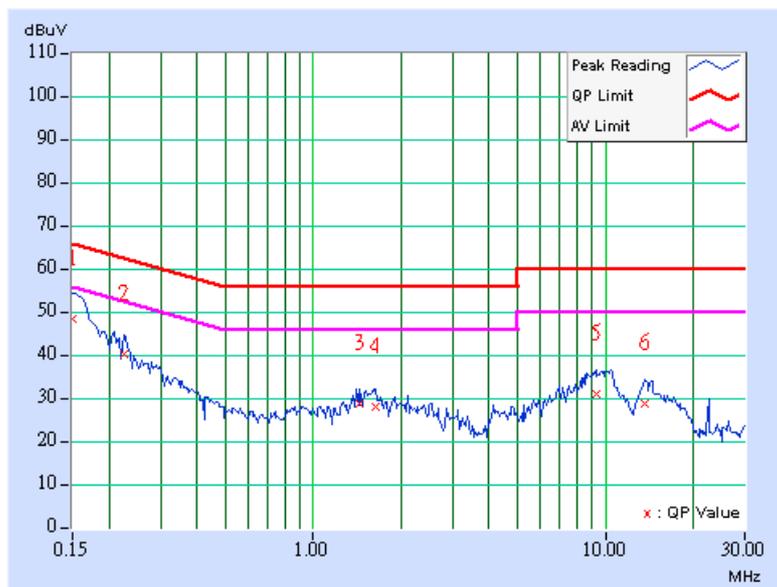




EUT	BT 2.0 dongle	MEASUREMENT DETAIL	
CHANNEL	Channel 39	MODEL	26-50701
INPUT POWER (SYSTEM)	120Vac, 60 Hz	MODULATION TYPE	GFSK
ENVIRONMENTAL CONDITIONS	27deg. C, 70%RH, 998hPa	6dB BANDWIDTH	9 kHz
TESTED BY	Jamison Chan	PHASE	Line 1

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.150	0.20	47.44	-	47.64	-	66.00
2	0.224	0.20	39.43	-	39.63	-	62.66	52.66	-23.03	-
3	1.445	0.24	27.94	-	28.18	-	56.00	46.00	-27.82	-
4	1.637	0.26	27.13	-	27.39	-	56.00	46.00	-28.61	-
5	9.293	0.66	30.29	-	30.95	-	60.00	50.00	-29.05	-
6	13.621	0.99	28.01	-	29.00	-	60.00	50.00	-31.00	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

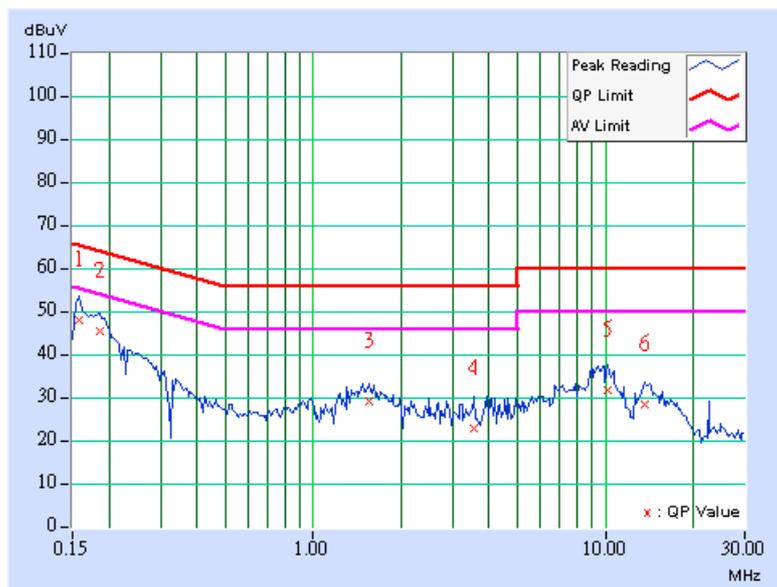




EUT	BT 2.0 dongle	MEASUREMENT DETAIL	
CHANNEL	Channel 39	MODEL	26-50701
INPUT POWER (SYSTEM)	120Vac, 60 Hz	MODULATION TYPE	GFSK
ENVIRONMENTAL CONDITIONS	27deg. C, 70%RH, 998hPa	6dB BANDWIDTH	9 kHz
TESTED BY	Jamison Chan	PHASE	Line 2

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.20	47.22	-	47.42	-	65.58	55.58	-18.16	-
2	0.185	0.20	44.69	-	44.89	-	64.25	54.25	-19.36	-
3	1.551	0.26	28.57	-	28.83	-	56.00	46.00	-27.17	-
4	3.563	0.46	22.15	-	22.61	-	56.00	46.00	-33.39	-
5	10.164	0.71	31.19	-	31.90	-	60.00	50.00	-28.10	-
6	13.602	0.84	27.73	-	28.57	-	60.00	50.00	-31.43	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

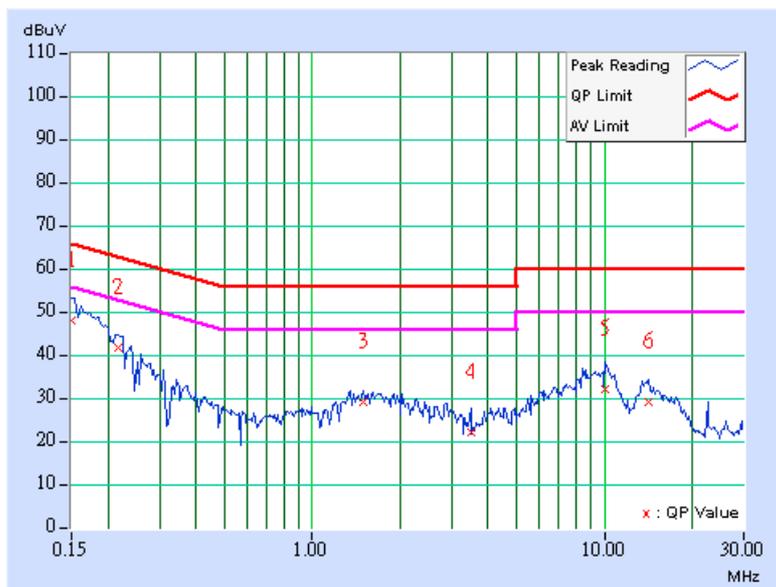




EUT	BT 2.0 dongle	MEASUREMENT DETAIL	
CHANNEL	Channel 78	MODEL	26-50701
INPUT POWER (SYSTEM)	120Vac, 60 Hz	MODULATION TYPE	GFSK
ENVIRONMENTAL CONDITIONS	27deg. C, 70%RH, 998hPa	6dB BANDWIDTH	9 kHz
TESTED BY	Jamison Chan	PHASE	Line 1

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.150	0.20	47.14	-	47.34	-	66.00
2	0.216	0.20	40.98	-	41.18	-	62.96	52.96	-21.78	-
3	1.496	0.25	28.29	-	28.54	-	56.00	46.00	-27.46	-
4	3.508	0.38	21.19	-	21.57	-	56.00	46.00	-34.43	-
5	10.039	0.70	31.35	-	32.05	-	60.00	50.00	-27.95	-
6	14.160	1.03	28.41	-	29.44	-	60.00	50.00	-30.56	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

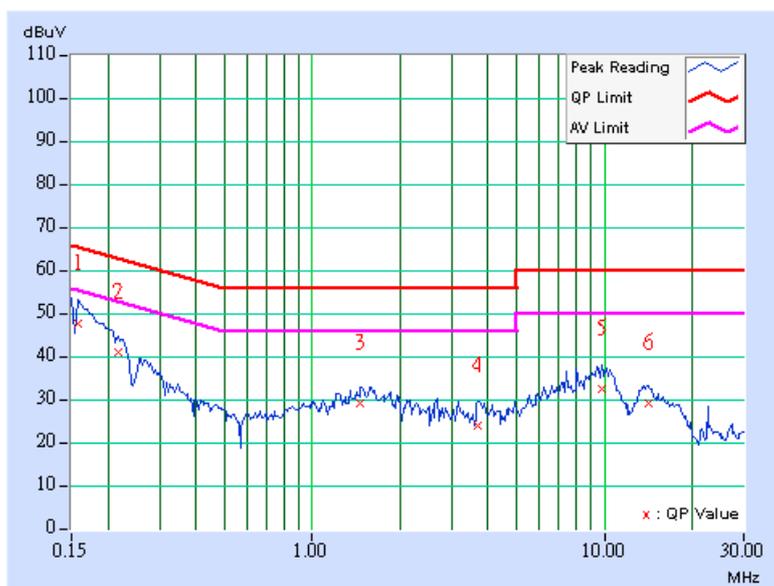




EUT	BT 2.0 dongle	MEASUREMENT DETAIL	
CHANNEL	Channel 78	MODEL	26-50701
INPUT POWER (SYSTEM)	120Vac, 60 Hz	MODULATION TYPE	GFSK
ENVIRONMENTAL CONDITIONS	27deg. C, 70%RH, 998hPa	6dB BANDWIDTH	9 kHz
TESTED BY	Jamison Chan	PHASE	Line 2

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.20	46.76	-	46.96	-	65.58	55.58	-18.62	-
2	0.216	0.20	40.10	-	40.30	-	62.96	52.96	-22.66	-
3	1.465	0.25	28.39	-	28.64	-	56.00	46.00	-27.36	-
4	3.707	0.47	23.39	-	23.86	-	56.00	46.00	-32.14	-
5	9.836	0.69	31.58	-	32.27	-	60.00	50.00	-27.73	-
6	14.117	0.86	28.26	-	29.12	-	60.00	50.00	-30.88	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



4.2 NUMBER OF HOPPING FREQUENCY USED

4.2.1 LIMIT OF HOPPING FREQUENCY USED

At least 15 channels frequencies, and should be equally spaced.

4.2.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSP 40	100036	Mar 20. 2006

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

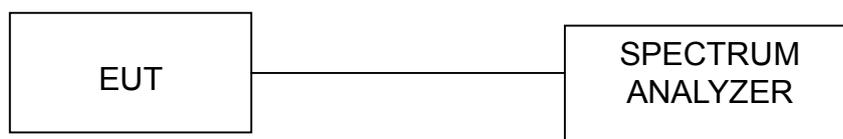
4.2.3 TEST PROCEDURES

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
4. Set the SA on View mode and then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

4.2.4 DEVIATION FROM TEST STANDARD

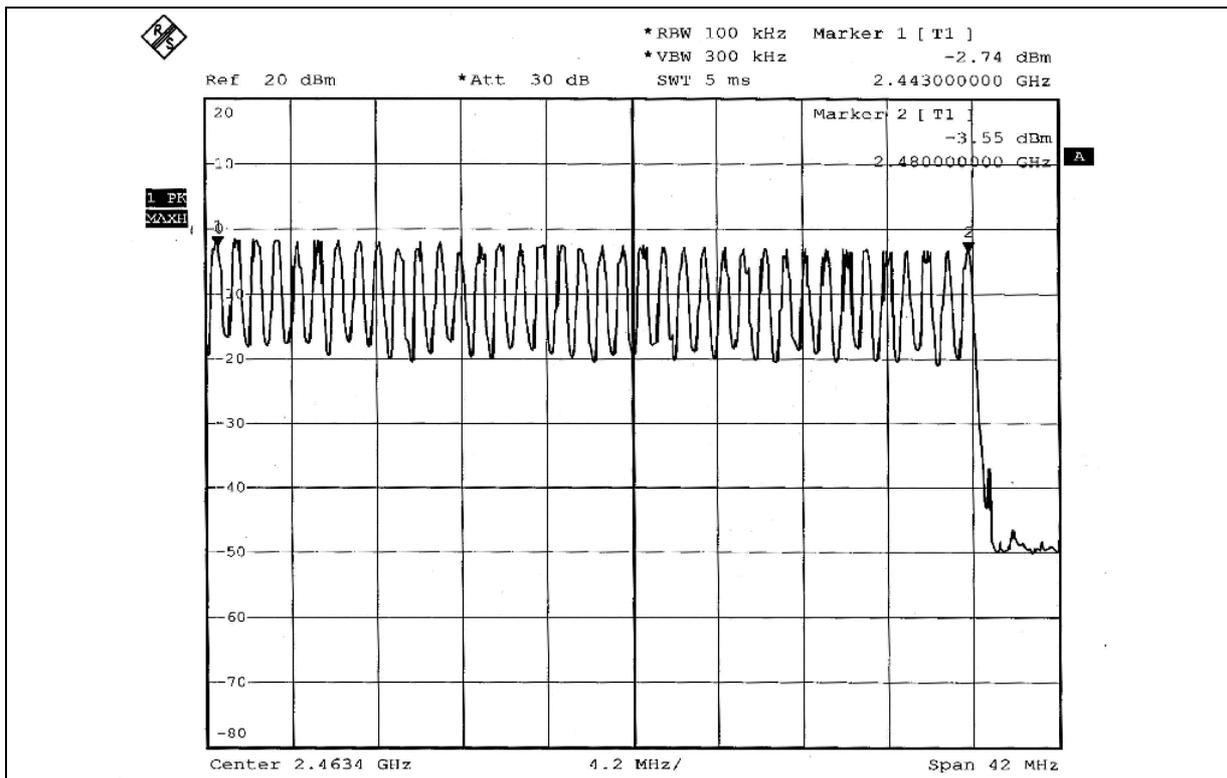
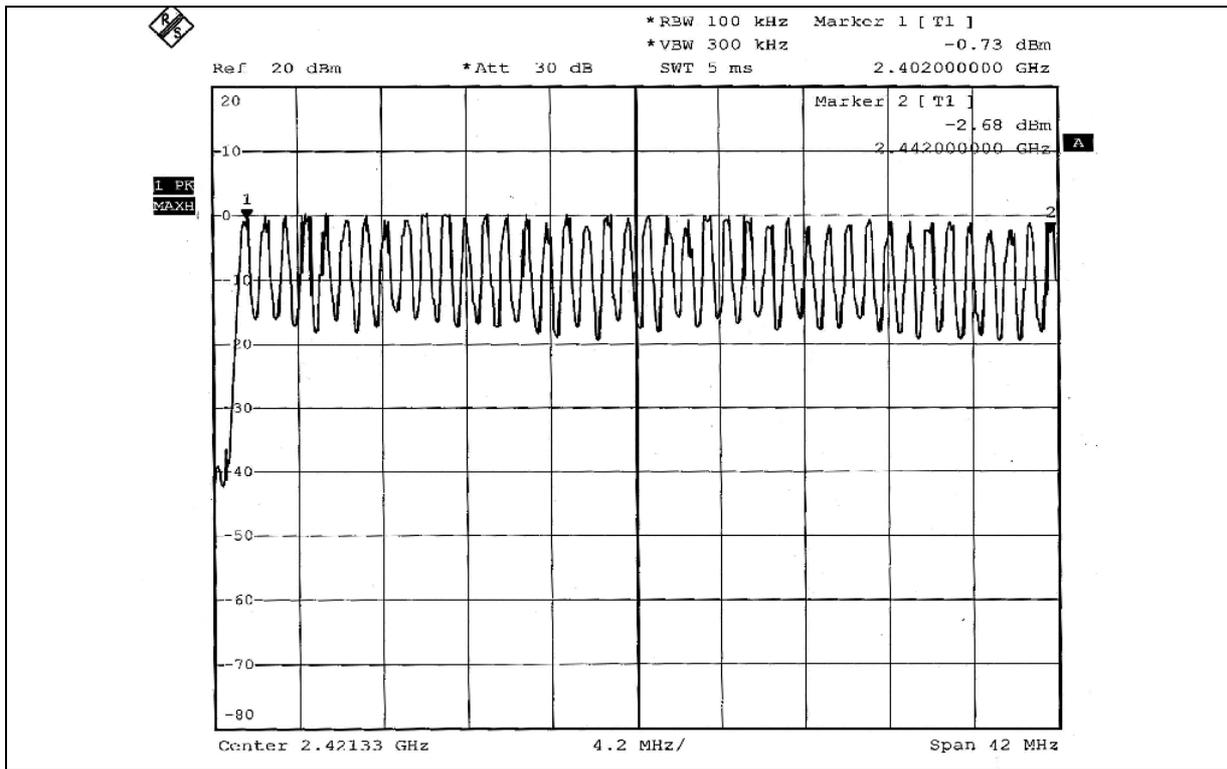
No deviation.

4.2.5 TEST SETUP



4.2.6 TEST RESULTS

There are 79 hopping frequencies in the hopping mode. Please refer to next two pages for the test result. On the plots, it shows that the hopping frequencies are equally spaced.



4.3 DWELL TIME ON EACH CHANNEL

4.3.1 LIMIT OF DWELL TIME USED

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSP 40	100036	Mar 20. 2006

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST PROCEDURES

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
4. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
5. Repeat above procedures until all different time-slot modes have been completed.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP



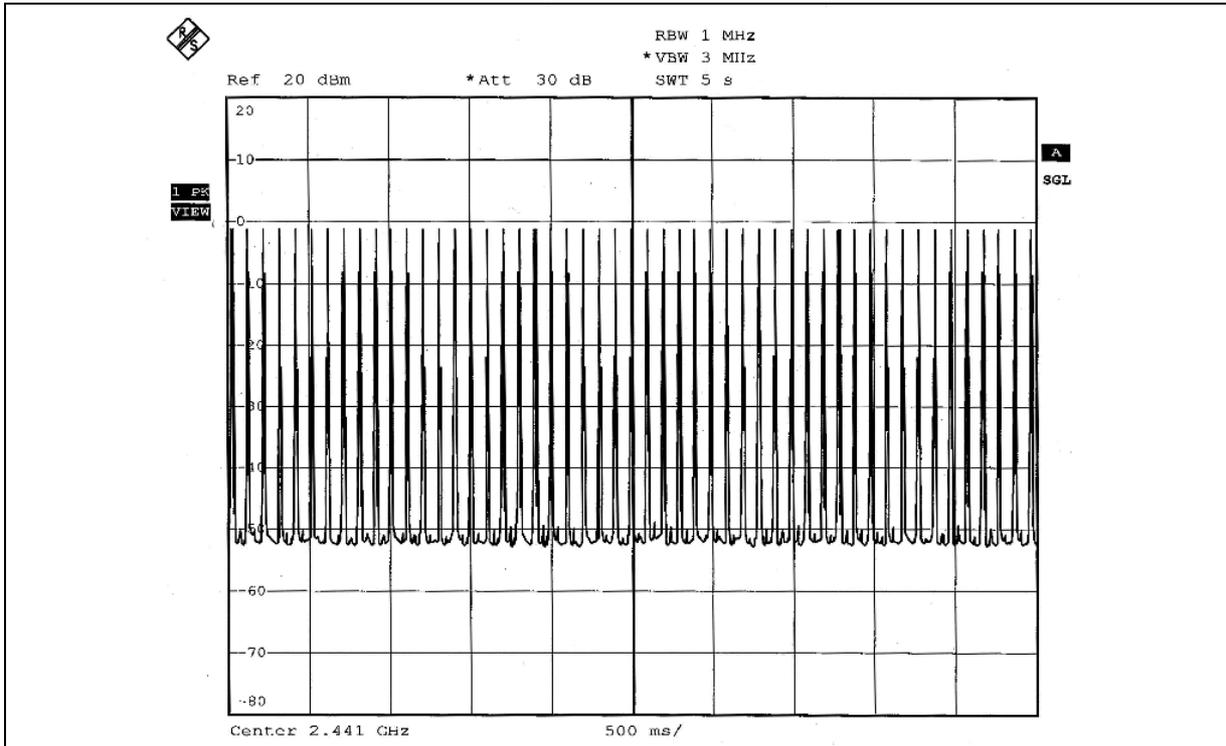
4.3.6 TEST RESULTS

Mode	Number of transmission in a 31.6 (79Hopping*0.4)	Length of transmission time (msec)	Result (msec)	Limit (msec)
DH1	52 (times / 5 sec) *6.32=329 times	0.554	182.266	400
DH3	25 (times / 5 sec) *6.32=158 times	1.89	298.620	400
DH5	17 (times / 5 sec) *6.32=107 times	3.15	337.050	400

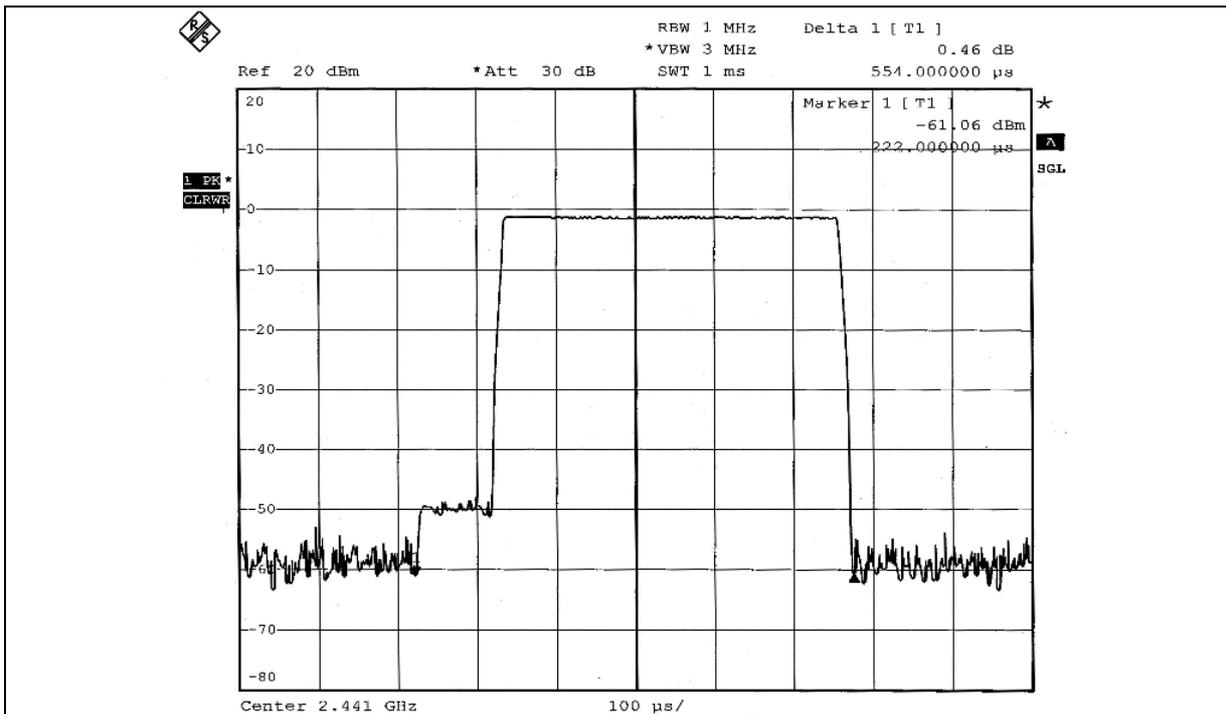
Test plots of the transmitting time slot are shown on next 3 pages.



DH1

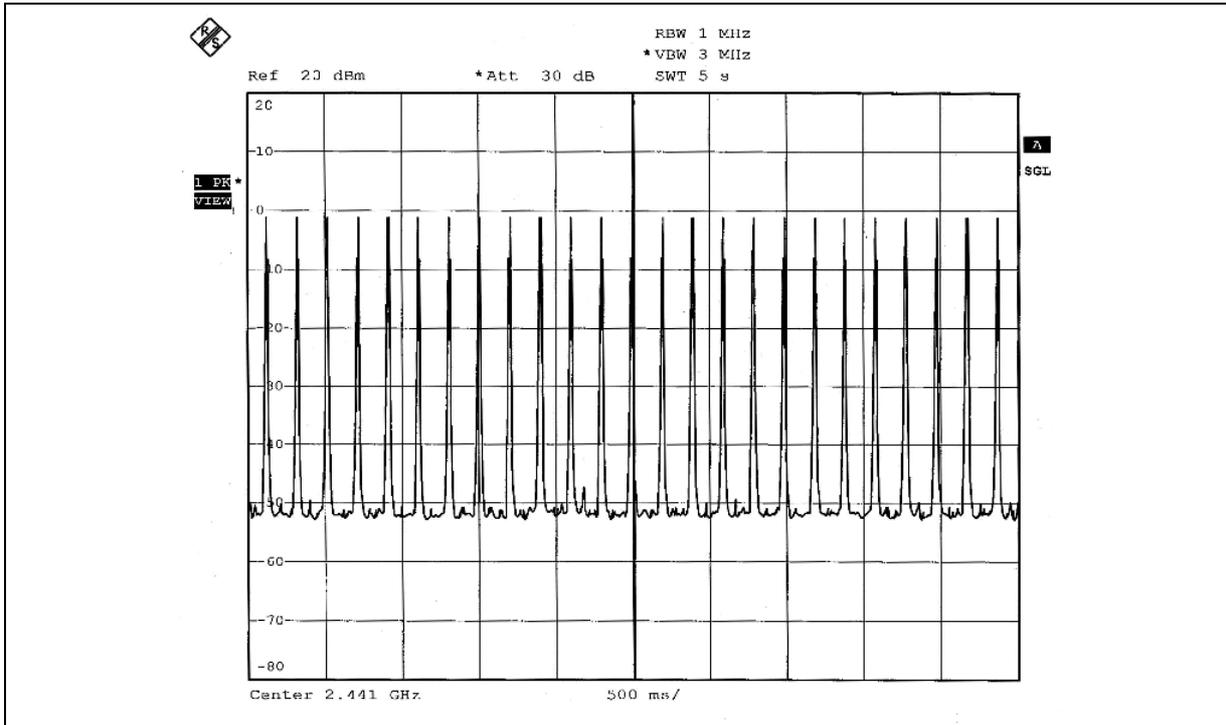


DH1

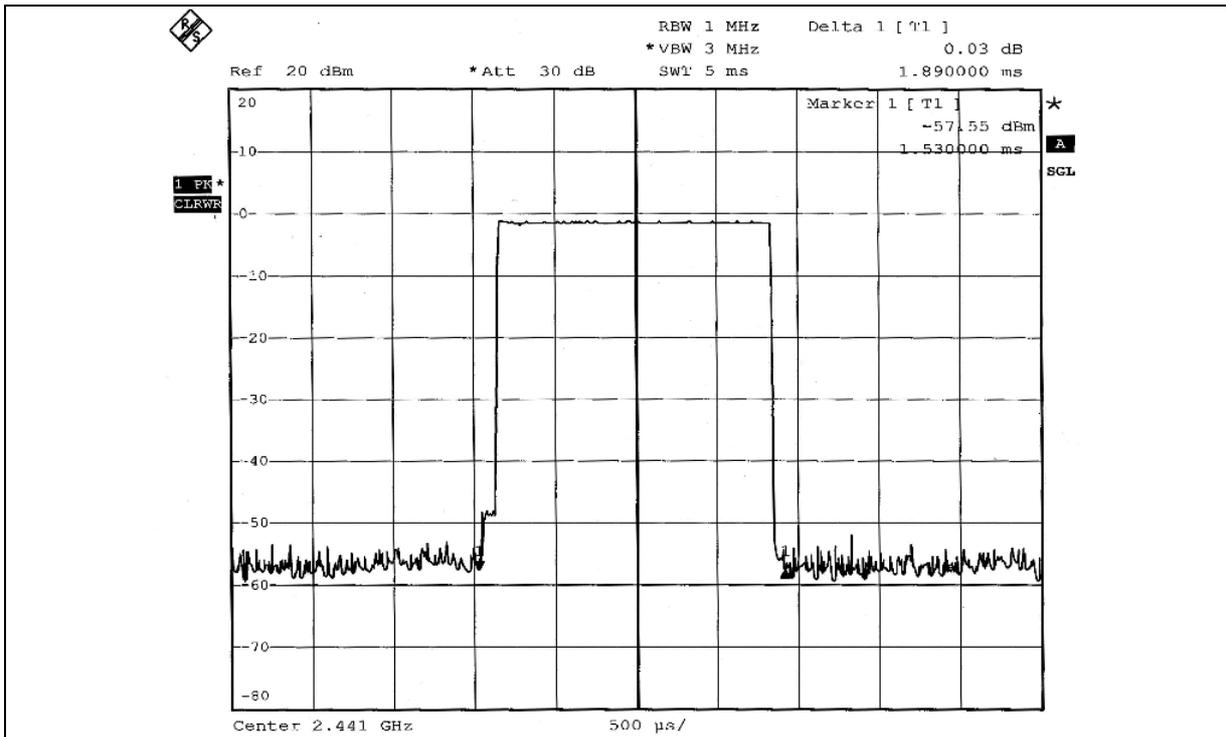




DH3

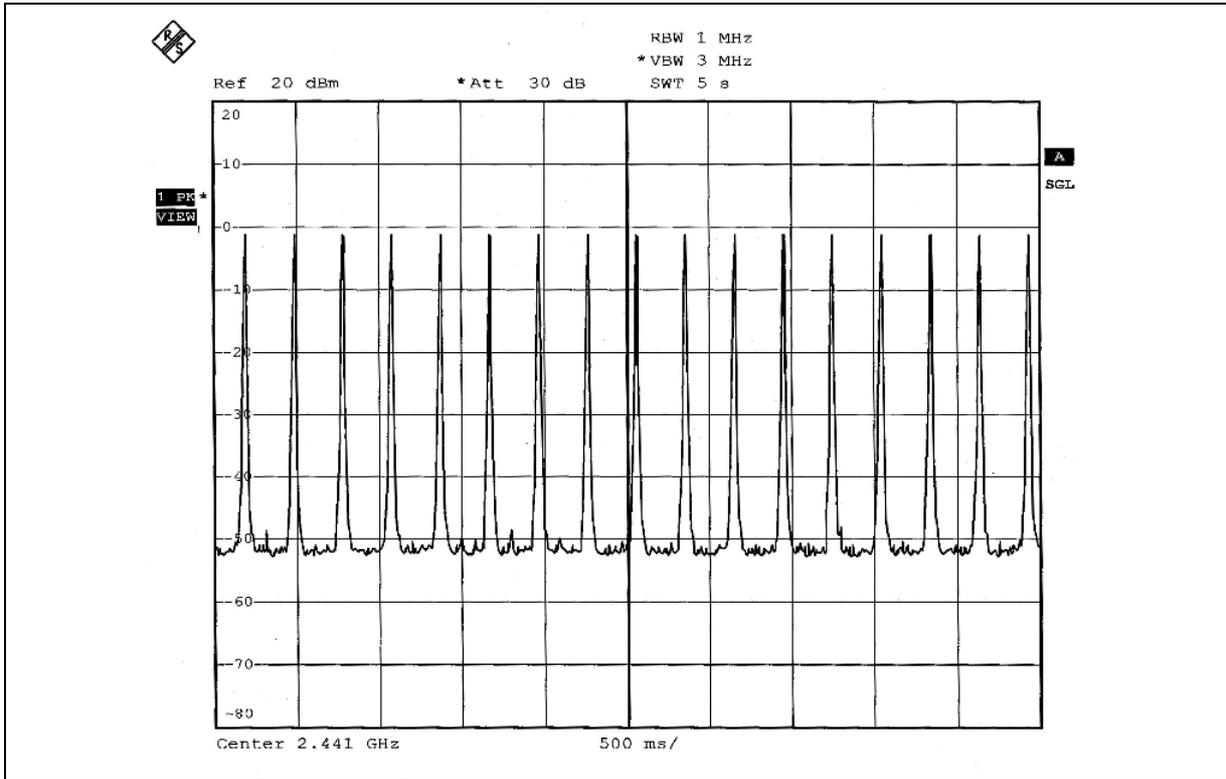


DH3

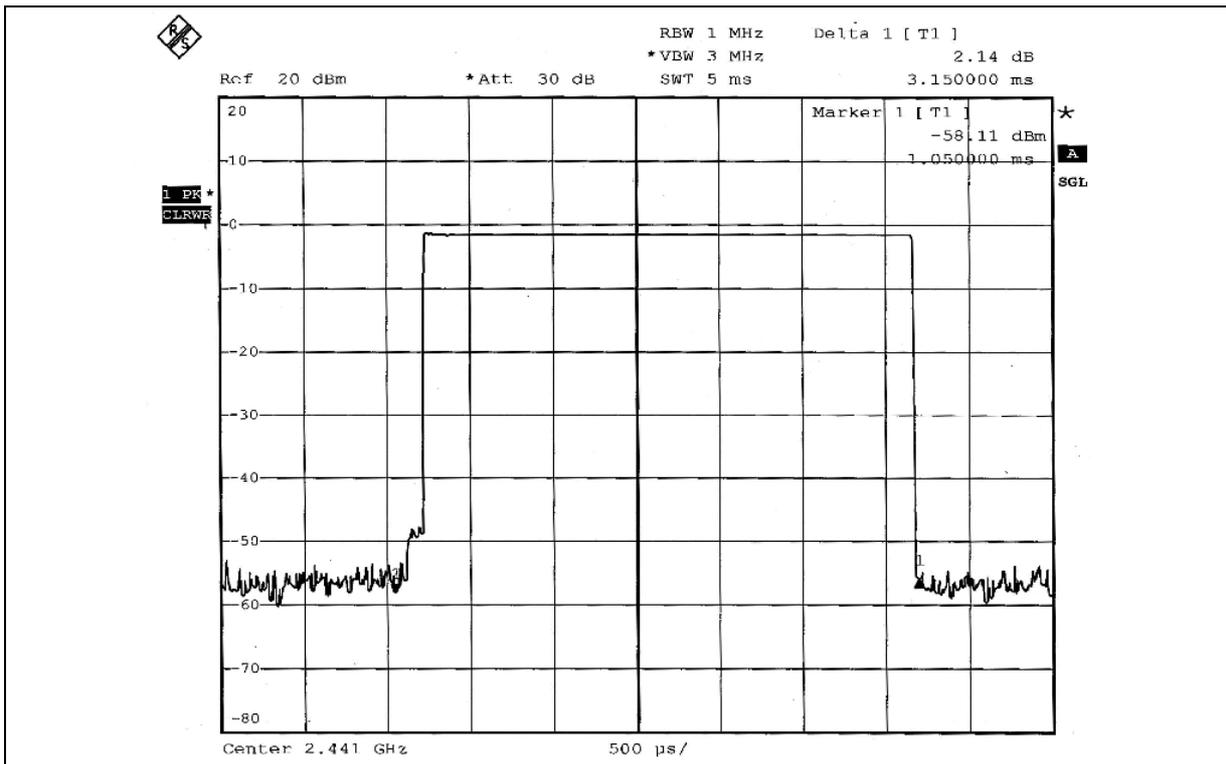




DH5



DH5



4.4 CHANNEL BANDWIDTH

4.4.1 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSP 40	100036	Mar 20. 2006

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

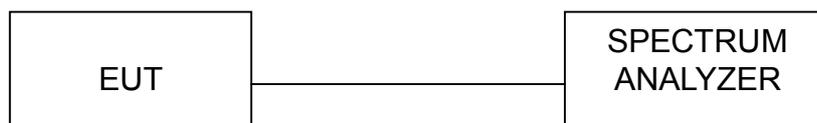
4.4.2 TEST PROCEDURE

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

4.4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4.4 TEST SETUP



4.4.5 EUT OPERATING CONDITION

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

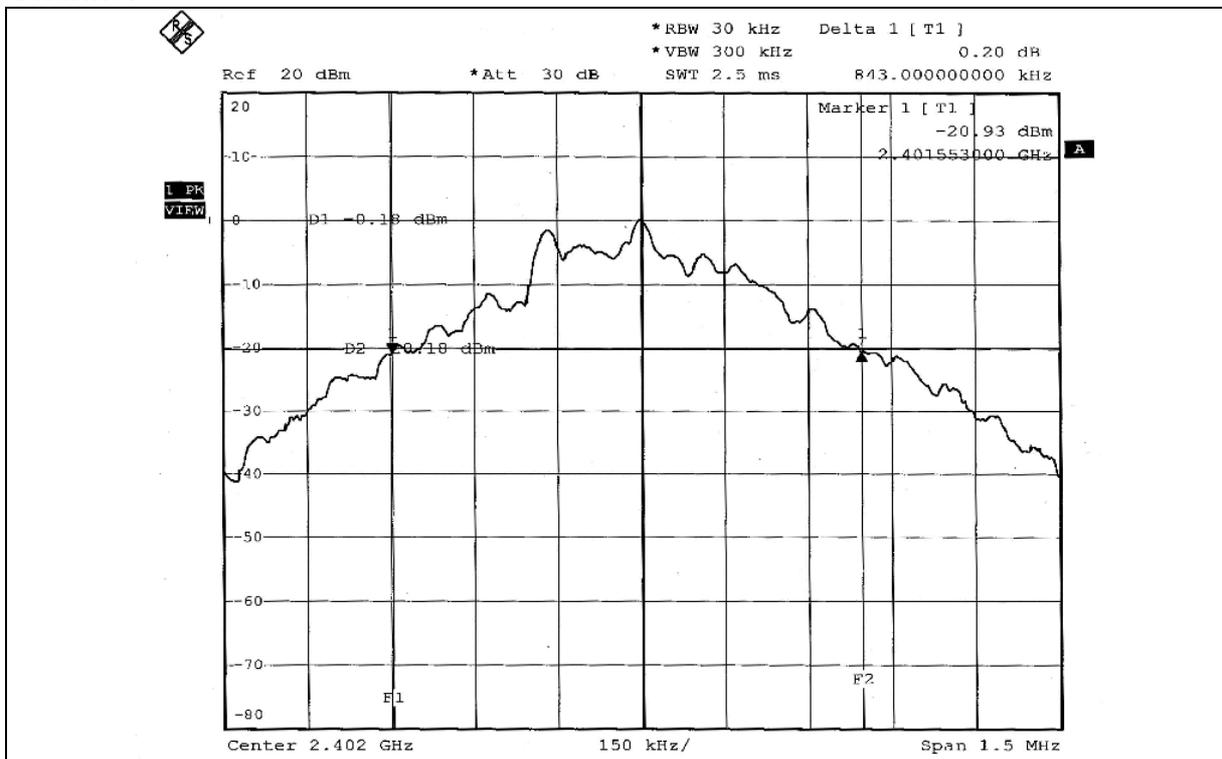


4.4.6 TEST RESULTS

EUT	BT 2.0 dongle	MODEL	26-50701
MODULATION TYPE	GFSK	ENVIRONMENTAL CONDITIONS	27deg. C, 70%RH, 998hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Jamison Chan

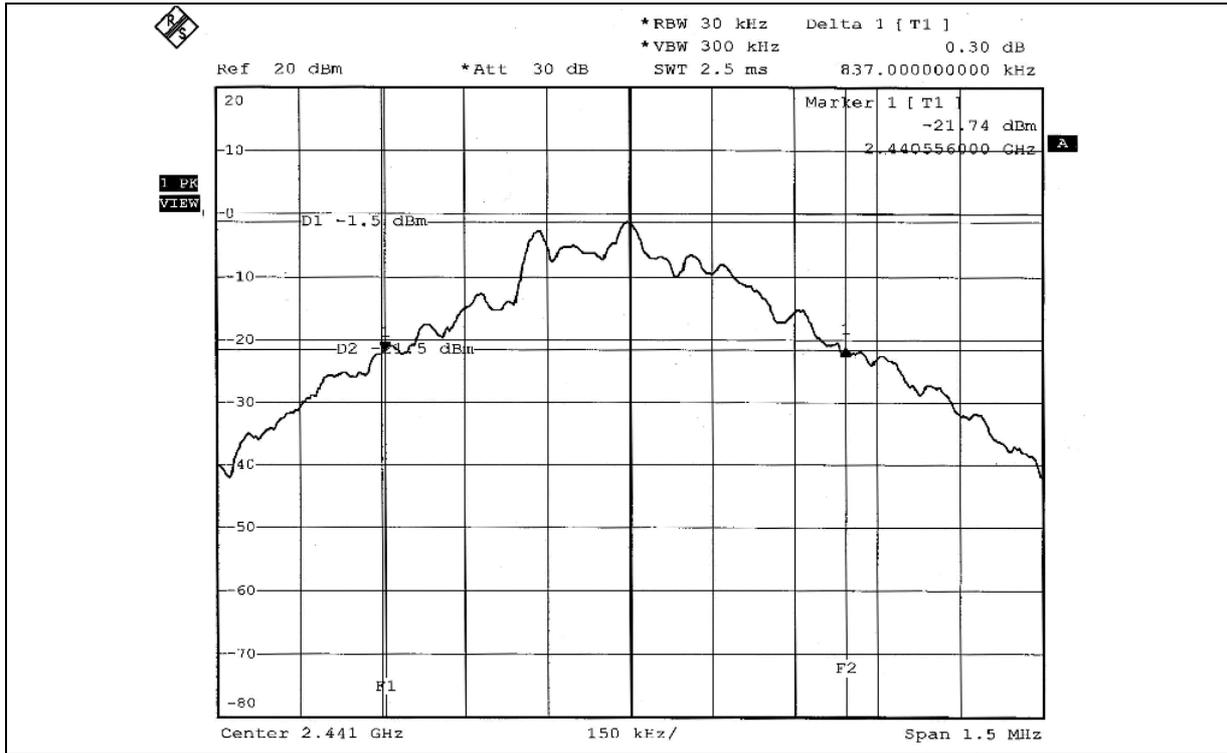
CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
0	2402	0.843
39	2441	0.837
78	2480	0.822

Channel 0

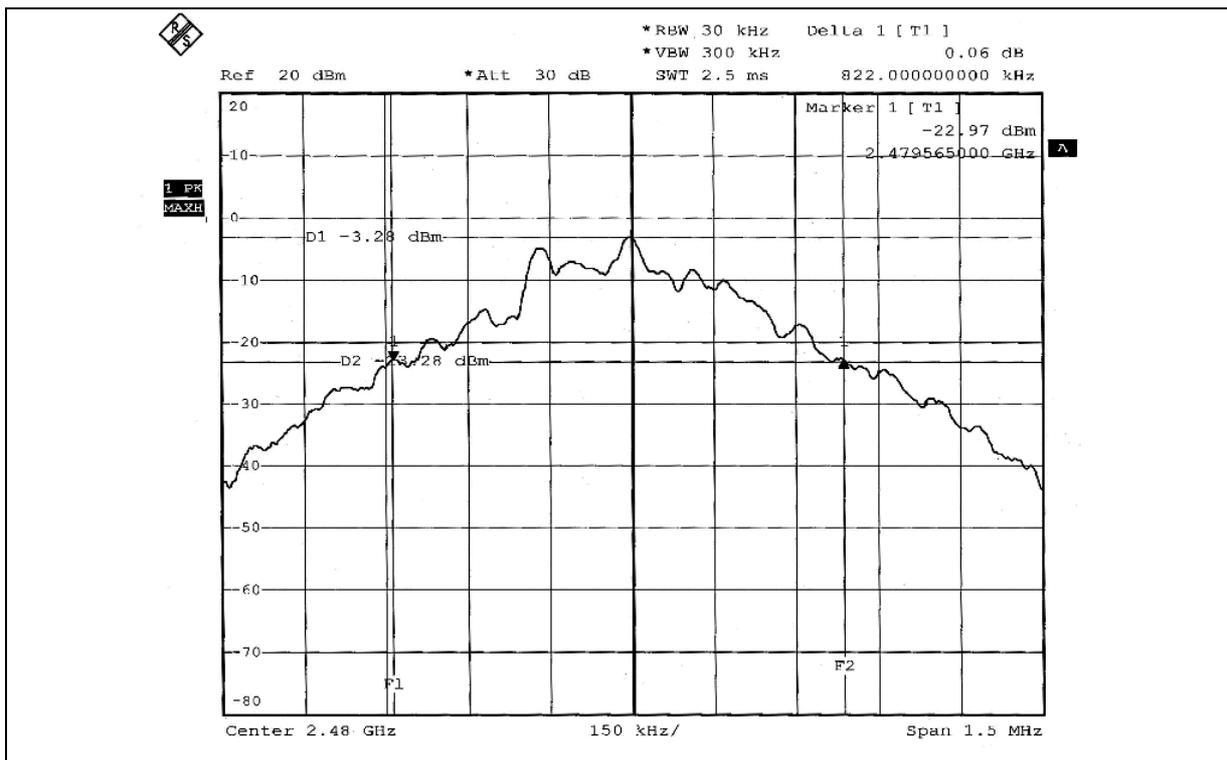




Channel 39



Channel 78



4.5 HOPPING CHANNEL SEPARATION

4.5.1 LIMIT OF HOPPING CHANNEL SEPARATION

At least 25 kHz or 20dB hopping channel bandwidth (whichever is greater).

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSP 40	100036	Mar 20. 2006

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.5.3 TEST PROCEDURES

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
3. By using the MaxHold function record the separation of two adjacent channels.
4. Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 TEST RESULTS

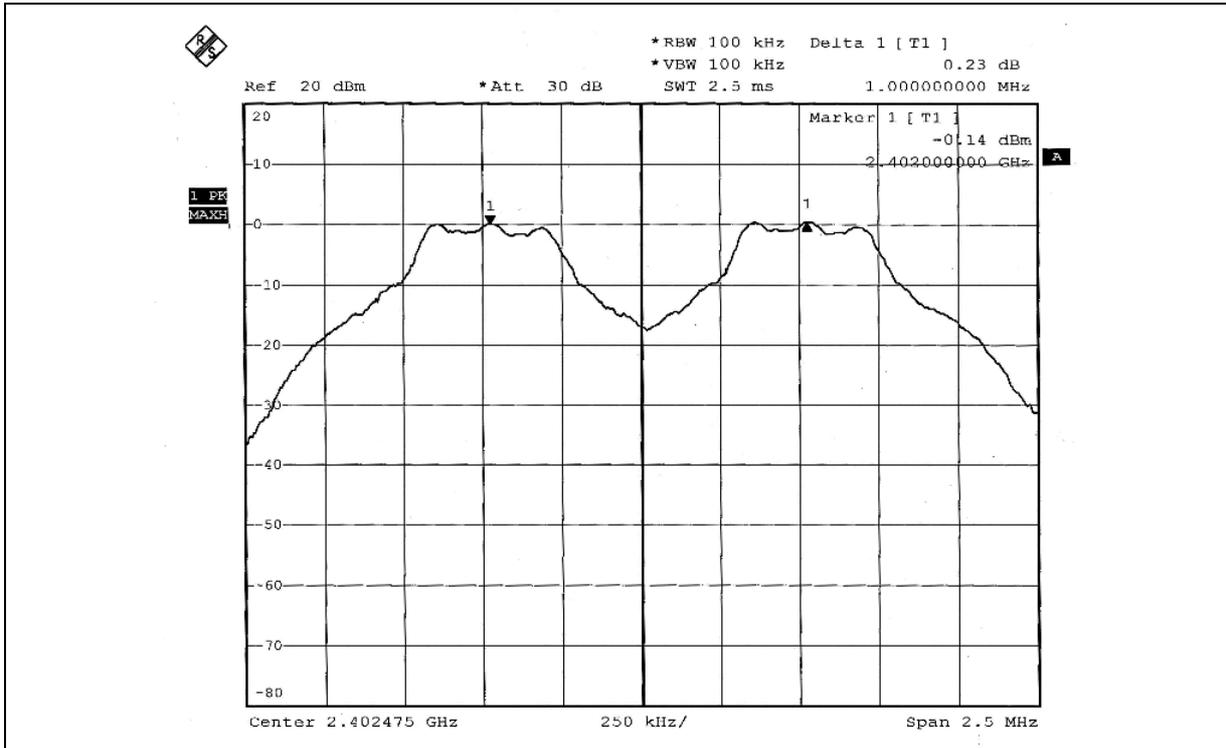
EUT	BT 2.0 dongle	MODEL	26-50701
MODULATION TYPE	GFSK	ENVIRONMENTAL CONDITIONS	27deg. C, 70%RH, 998hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Jamison Chan

Channel	Frequency (MHz)	Adjacent Channel Separation (MHz)	Minimum Limit (MHz)	Pass / Fail
0	2402	1.000	0.843	PASS
39	2441	1.000	0.837	PASS
78	2480	1.000	0.822	PASS

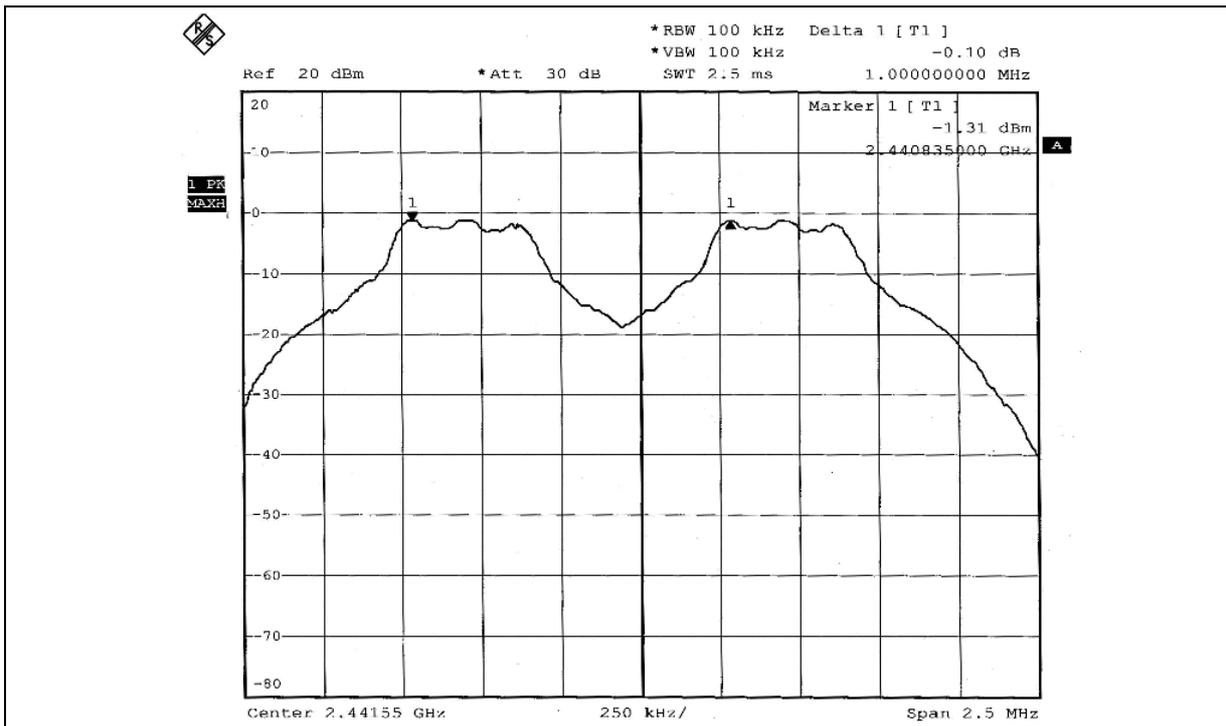
The minimum limit is 20dB bandwidth. Test results please refer to next two pages.



Channel 0

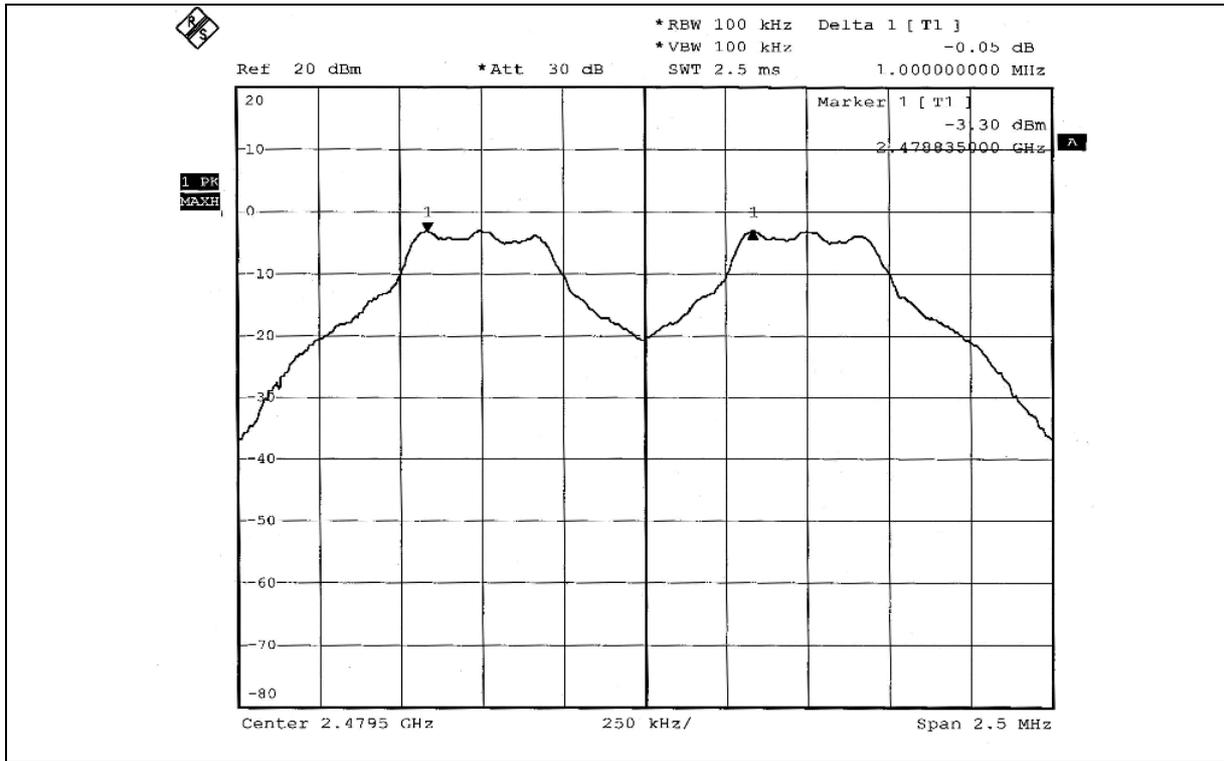


Channel 39





Channel 78



4.6 MAXIMUM PEAK OUTPUT POWER

4.6.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.6.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSP 40	100036	Mar 20. 2006

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

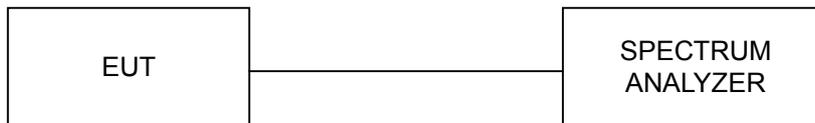
4.6.3 TEST PROCEDURES

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. The center frequency of the spectrum analyzer is set to the fundamental frequency and using 1 MHz RBW and 3 MHz VBW.
4. Measure the captured power within the band and recoding the plot.
5. Repeat above procedures until all frequencies required were complete.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 TEST SETUP



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

4.6.6 EUT OPERATING CONDITION

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

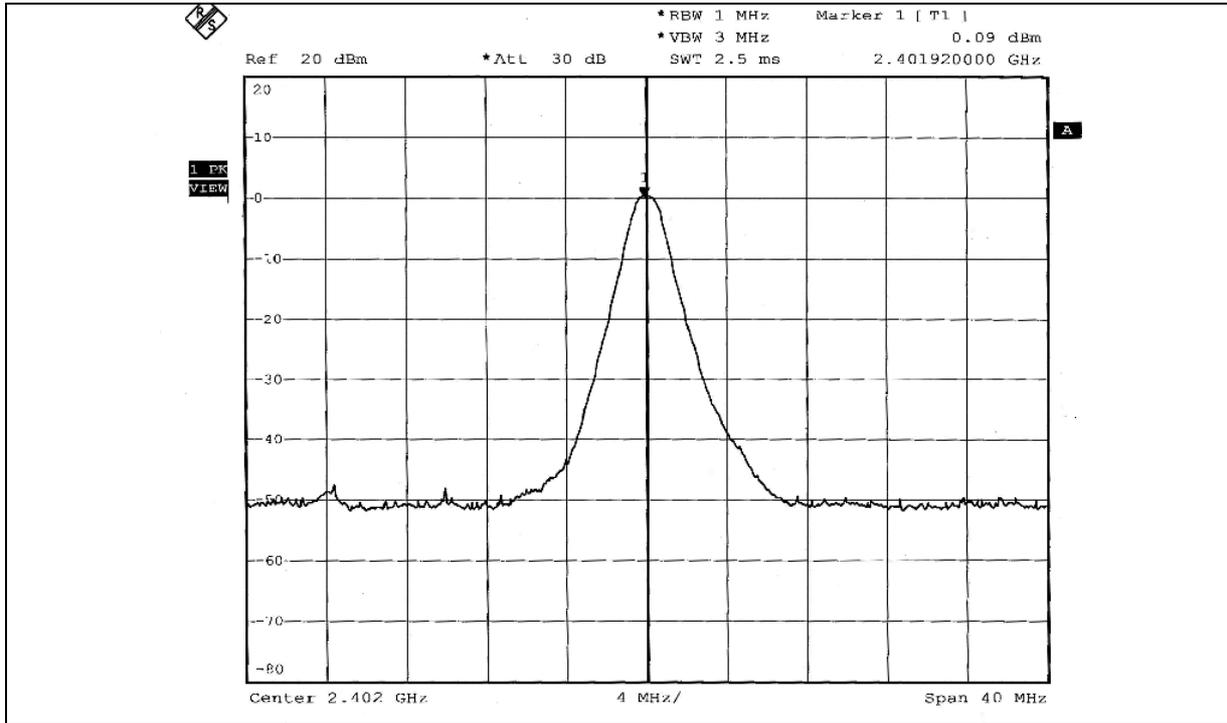
4.6.7 TEST RESULTS

EUT	BT 2.0 dongle	MODEL	26-50701
MODULATION TYPE	GFSK	ENVIRONMENTAL CONDITIONS	27deg. C, 70%RH, 998hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Jamison Chan

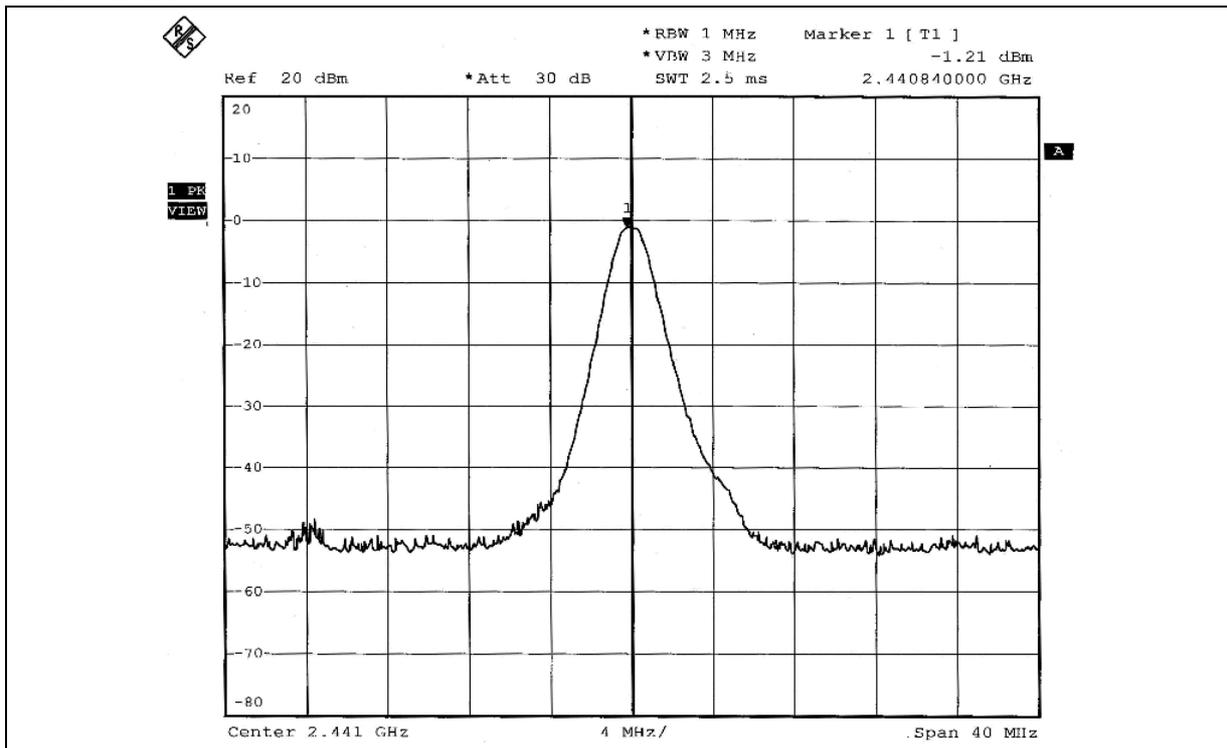
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
0	2402	1.021	0.09	30	PASS
39	2441	0.757	-1.21	30	PASS
78	2480	0.480	-3.19	30	PASS



Channel 0

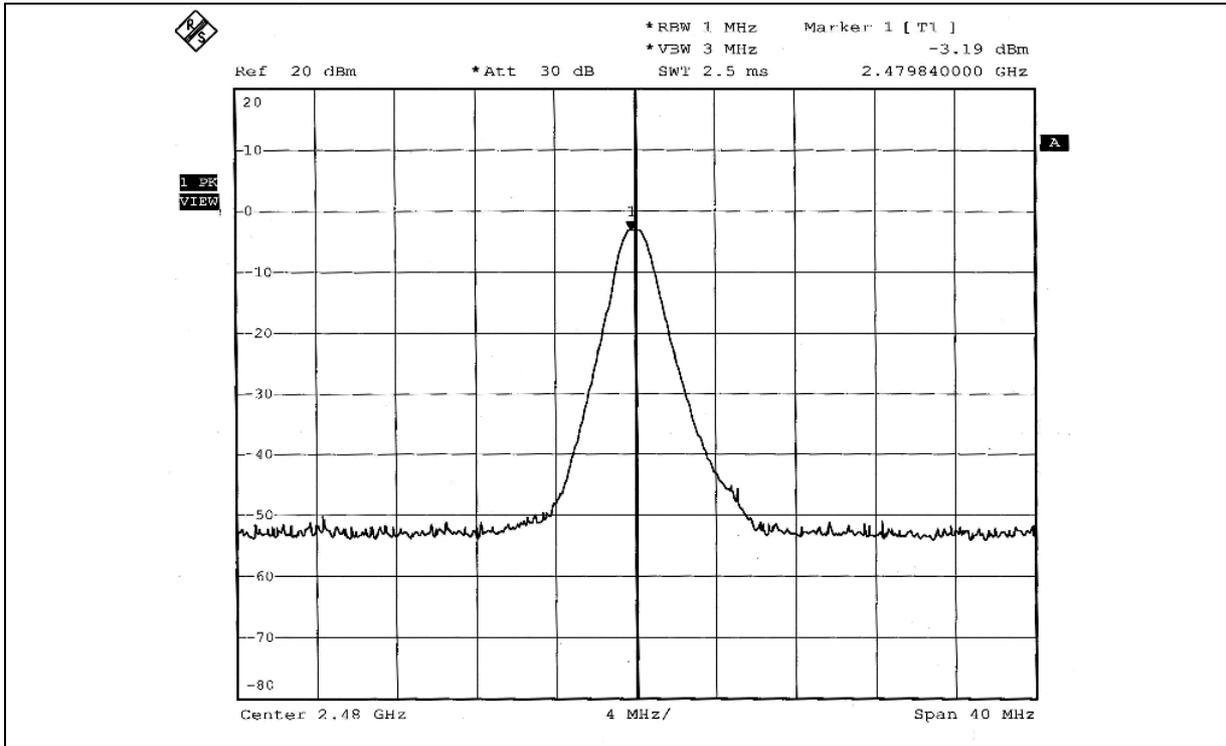


Channel 39





Channel 78



4.7 RADIATED EMISSION MEASUREMENT

4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE: The limit for radiated test was performed according to CISPR 22: 1997, which was specified in FCC PART 15B 15.109(g). Also the limits of ICES-003: 2004 and CISPR 22: 1997 are same.

4.7.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	May 22, 2006
HP Preamplifier	8449B	3008A01924	Sep. 19, 2005
HP Preamplifier	8449B	3008A01638	Sep. 30, 2005
SCHWARZBECK Tunable Dipole Antenna	VHA 9103	NA	Oct. 29, 2005
SCHWARZBECK Tunable Dipole Antenna	UHA 9105	977	
ROHDE & SCHWARZ TEST RECEIVER	ESI7	836697/012	Nov. 05, 2005
Schwarzbeck Antenna	VULB 9168	137	Feb. 27, 2006
Schwarzbeck Antenna	VHBA 9123	480	Apr. 11, 2006
EMCO Horn Antenna	3115	6714	Oct. 28, 2005
EMCO Horn Antenna	3115	9312-4192	Feb. 28, 2006
ADT. Turn Table	TT100	0306	NA
ADT. Tower	AT100	0306	NA
Software	ADT_Radiated_V 6	NA	NA
TIMES RF cable	LL142	CABLE-CH6-01	Dec. 19, 2005

- NOTE:**
1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.
 2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 3. The test was performed in ADT Chamber No. 6.
 4. The Industry Canada Reference No. IC 3789-6.

4.7.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

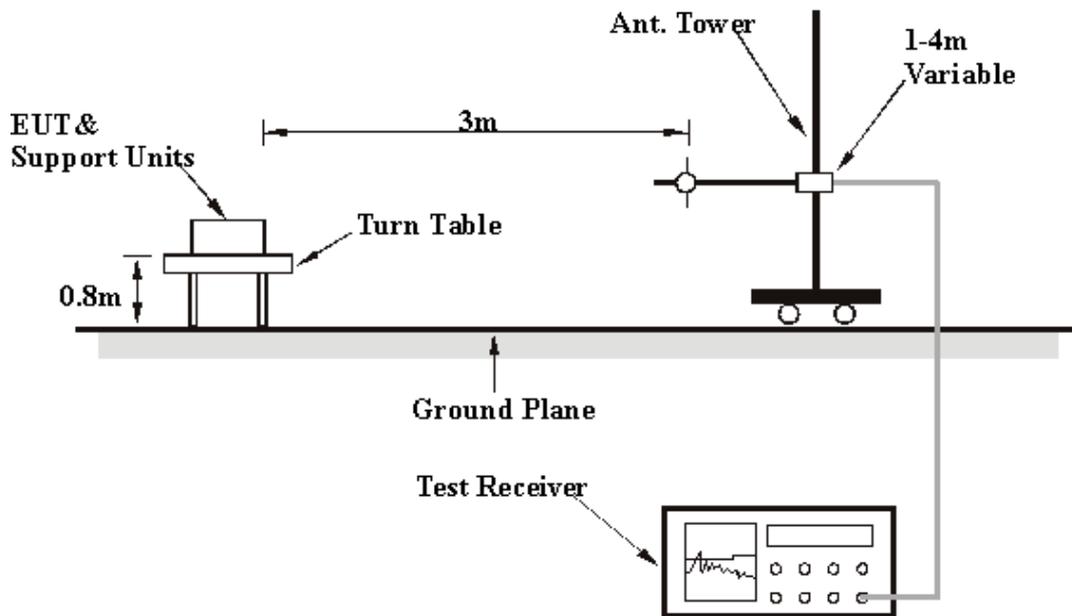
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.

4.7.4 DEVIATION FROM TEST STANDARD

No deviation.

4.7.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.7.6 EUT OPERATING CONDITIONS

Same as item 4.1.6.

4.7.7 TEST RESULTS

Below 1GHz Worst-Case Data

EUT	BT 2.0 dongle	MEASUREMENT DETAIL	
MODEL	26-50701	FREQUENCY RANGE	Below 1 GHz
CHANNEL	78	MODULATION TYPE	GFSK
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
TESTED BY	Jamison Chan	ENVIRONMENTAL CONDITIONS	26 deg. C, 70% RH, 998 hPa

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	199.12	34.48 QP	43.50	-9.02	1.12 H	248	24.07	10.40
2	243.83	35.36 QP	46.00	-10.64	2.50 H	70	23.53	11.83
3	399.34	39.42 QP	46.00	-6.58	1.96 H	222	22.04	17.38
4	665.65	37.83 QP	46.00	-8.17	1.63 H	217	14.83	23.00
5	743.41	31.51 QP	46.00	-14.49	1.07 H	251	6.99	24.52
6	933.91	39.37 QP	46.00	-6.63	1.29 H	49	12.51	26.86

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	74.71	29.12 QP	40.00	-10.88	2.41 V	322	18.27	10.85
2	399.34	38.50 QP	46.00	-7.50	1.43 V	146	21.12	17.38
3	455.71	34.43 QP	46.00	-11.57	1.00 V	187	15.54	18.89
4	599.56	35.59 QP	46.00	-10.41	1.13 V	4	13.36	22.23
5	665.65	39.23 QP	46.00	-6.77	1.12 V	83	16.24	23.00
6	935.85	35.88 QP	46.00	-10.12	1.53 V	357	8.97	26.91

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



1 ~ 25GHz Worst-Case Data

EUT	BT 2.0 dongle	MEASUREMENT DETAIL	
MODEL	26-50701	FREQUENCY RANGE	1 ~ 25 GHz
CHANNEL	0	MODULATION TYPE	GFSK
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY	Jamison Chan	ENVIRONMENTAL CONDITIONS	26 deg. C, 70% RH, 998 hPa

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1602.00	46.76 PK	74.00	-27.24	1.24 H	122	16.31	30.45
1	1602.00	39.19 AV	54.00	-14.81	1.24 H	122	8.74	30.45
2	2386.00	40.20 PK	74.00	-33.80	1.00 H	228	6.72	33.48
2	2386.00	34.10 AV	54.00	-19.90	1.00 H	228	0.62	33.48
3	*2402.00	97.40 PK			1.00 H	228	63.84	33.56
3	*2402.00	67.40 AV			1.00 H	228	53.75	33.56
4	4804.00	56.14 PK	74.00	-17.86	1.00 H	216	16.32	39.82
4	4804.00	26.14 AV	54.00	-27.86	1.00 H	216	-13.68	39.82

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1602.00	50.27 PK	74.00	-23.73	1.20 V	173	19.82	30.45
1	1602.00	39.98 AV	54.00	-14.02	1.20 V	173	9.53	30.45
2	2386.00	34.58 PK	74.00	-39.42	1.00 V	6	1.10	33.48
2	2386.00	28.48 AV	54.00	-25.52	1.00 V	6	-5.00	33.48
3	*2402.00	91.78 PK			1.00 V	6	58.22	33.56
3	*2402.00	61.78 AV			1.00 V	6	48.34	33.56
4	4804.00	57.00 PK	74.00	-17.00	1.11 V	157	17.18	39.82
4	4804.00	27.00 AV	54.00	-27.00	1.11 V	157	-12.82	39.82

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625*5 per 247 ms per channel. Therefore, the duty cycle be equal to: 20log(3.125/100)= -30 dB
 6. Average value = peak reading +20log(duty cycle)

EUT	BT 2.0 dongle	MEASUREMENT DETAIL	
MODEL	26-50701	FREQUENCY RANGE	1 ~ 25 GHz
CHANNEL	39	MODULATION TYPE	GFSK
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY	Jamison Chan	ENVIRONMENTAL CONDITIONS	26 deg. C, 70% RH, 998 hPa

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1628.00	46.09 PK	74.00	-27.91	1.18 H	119	15.57	30.52
1	1628.00	38.24 AV	54.00	-15.76	1.18 H	119	7.72	30.52
2	*2441.00	97.56 PK			1.73 H	231	63.81	33.75
2	*2441.00	67.56 AV			1.73 H	231	54.67	33.75
3	4884.00	57.39 PK	74.00	-16.61	1.00 H	213	17.41	39.99
3	4884.00	37.39 AV	54.00	-16.61	1.00 H	213	-2.59	39.99

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1628.00	46.55 PK	74.00	-27.45	1.03 V	211	16.03	30.52
1	1628.00	38.52 AV	54.00	-15.48	1.03 V	211	8.00	30.52
2	*2441.00	94.12 PK			1.18 V	0	60.37	33.75
2	*2441.00	64.12 AV			1.18 V	0	51.59	33.75
3	4884.00	60.31 PK	74.00	-13.69	1.04 V	184	20.33	39.99
3	4884.00	30.31 AV	54.00	-23.69	1.04 V	184	-9.67	39.99

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625*5 per 247 ms per channel. Therefore, the duty cycle be equal to: $20\log(3.125/100) = -30$ dB
 6. Average value = peak reading + $20\log(\text{duty cycle})$

EUT	BT 2.0 dongle	MEASUREMENT DETAIL	
MODEL	26-50701	FREQUENCY RANGE	1 ~ 25 GHz
CHANNEL	78	MODULATION TYPE	GFSK
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY	Jamison Chan	ENVIRONMENTAL CONDITIONS	26 deg. C, 70% RH, 998 hPa

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1654.00	46.58 PK	74.00	-27.42	1.02 H	166	-56.09	102.67
1	1654.00	38.27 AV	54.00	-15.73	1.02 H	166	-64.40	102.67
2	*2480.00	95.70 PK			1.41 H	230	-6.97	102.67
2	*2480.00	65.70 AV			1.41 H	230	-14.97	102.67
3	2483.50	57.53 PK	74.00	-16.47	1.41 H	230	-45.14	102.67
3	2483.50	49.37 AV	54.00	-4.63	1.41 H	230	-53.30	102.67
4	4960.00	60.34 PK	74.00	-13.66	1.16 H	124	-42.33	102.67
4	4960.00	30.34 AV	54.00	-23.66	1.16 H	124	-72.33	102.67

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1654.00	45.98 PK	74.00	-28.02	1.29 V	12	-56.69	102.67
1	1654.00	35.98 AV	54.00	-18.02	1.29 V	12	-66.69	102.67
2	*2480.00	91.36 PK			1.13 V	188	-11.31	102.67
2	*2480.00	61.36 AV			1.13 V	188	-19.19	102.67
3	2483.50	53.19 PK	74.00	-20.81	1.13 V	188	-49.48	102.67
3	2483.50	45.15 AV	54.00	-8.85	1.13 V	188	-57.52	102.67
4	4960.00	60.70 PK	74.00	-13.30	1.27 V	203	-41.97	102.67
4	4960.00	30.70 AV	54.00	-23.30	1.27 V	203	-71.97	102.67

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625*5 per 247 ms per channel. Therefore, the duty cycle be equal to: $20\log(3.125/100) = -30$ dB
6. Average value = peak reading + $20\log(\text{duty cycle})$

4.8 BAND EDGES MEASUREMENT

4.8.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz RBW).

4.8.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSP 40	100036	Mar 20. 2006

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.8.3 TEST PROCEDURE

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

4.8.4 DEVIATION FROM TEST STANDARD

No deviation.

4.8.5 EUT OPERATING CONDITION

The software provided by client enabled the EUT to transmit and receive data at lowest and highest channel frequencies individually.

4.8.6 TEST RESULTS

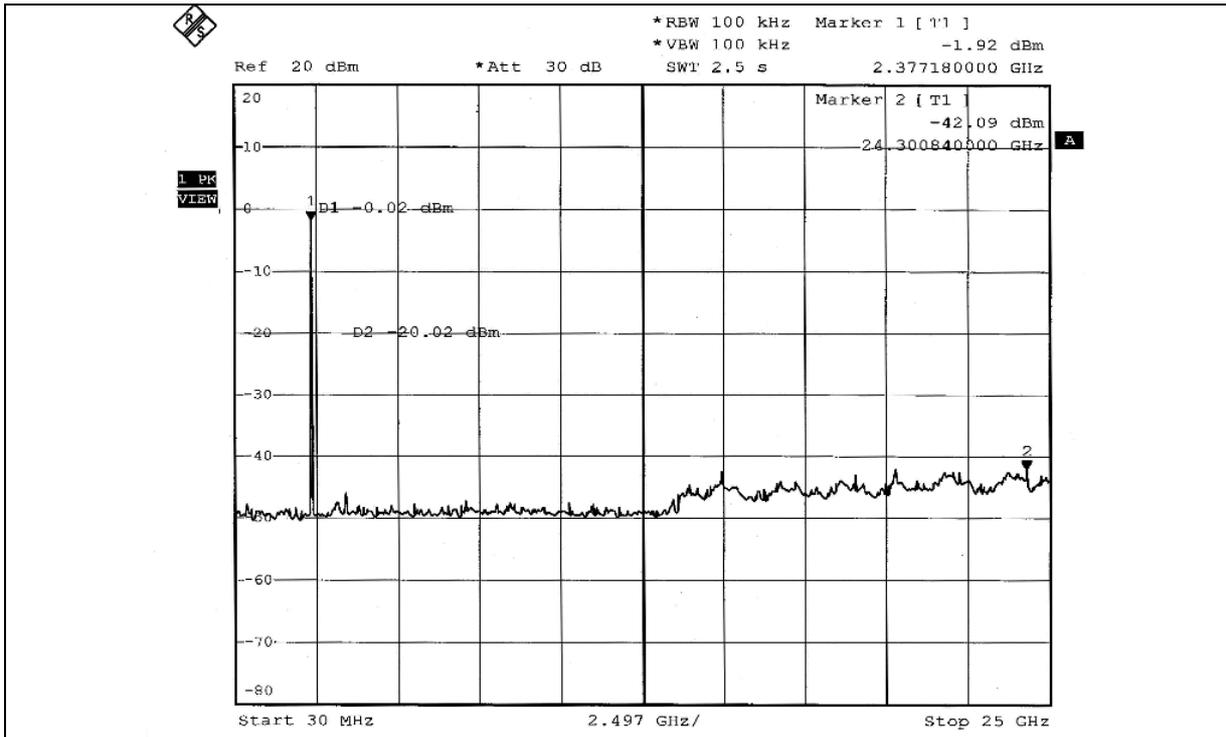
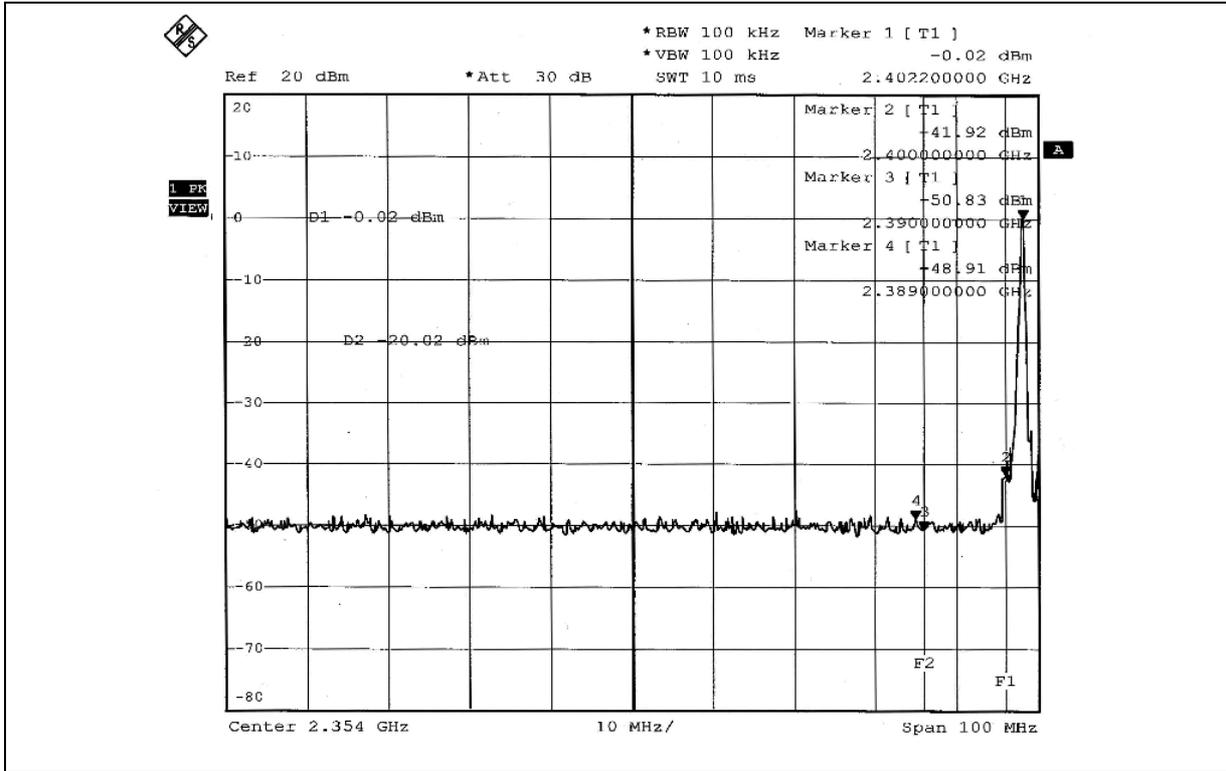
The spectrum plots are attached on the following 4 images. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).

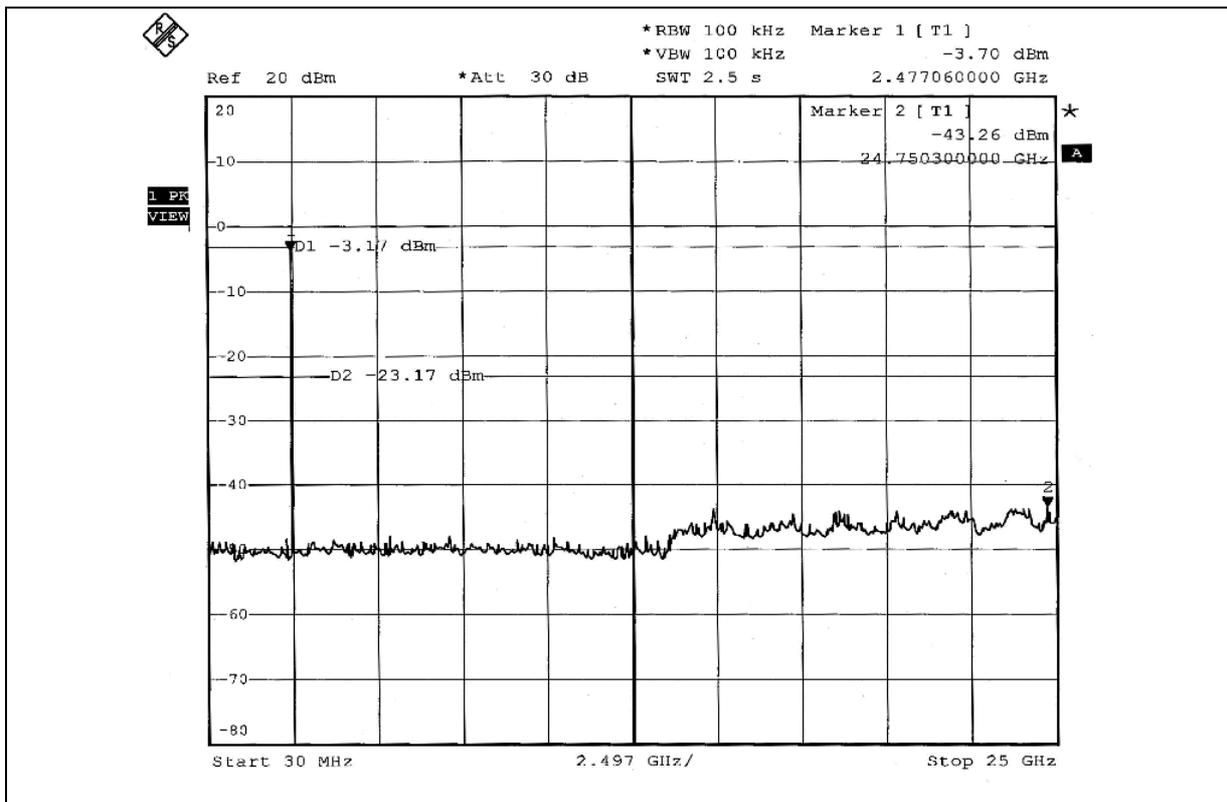
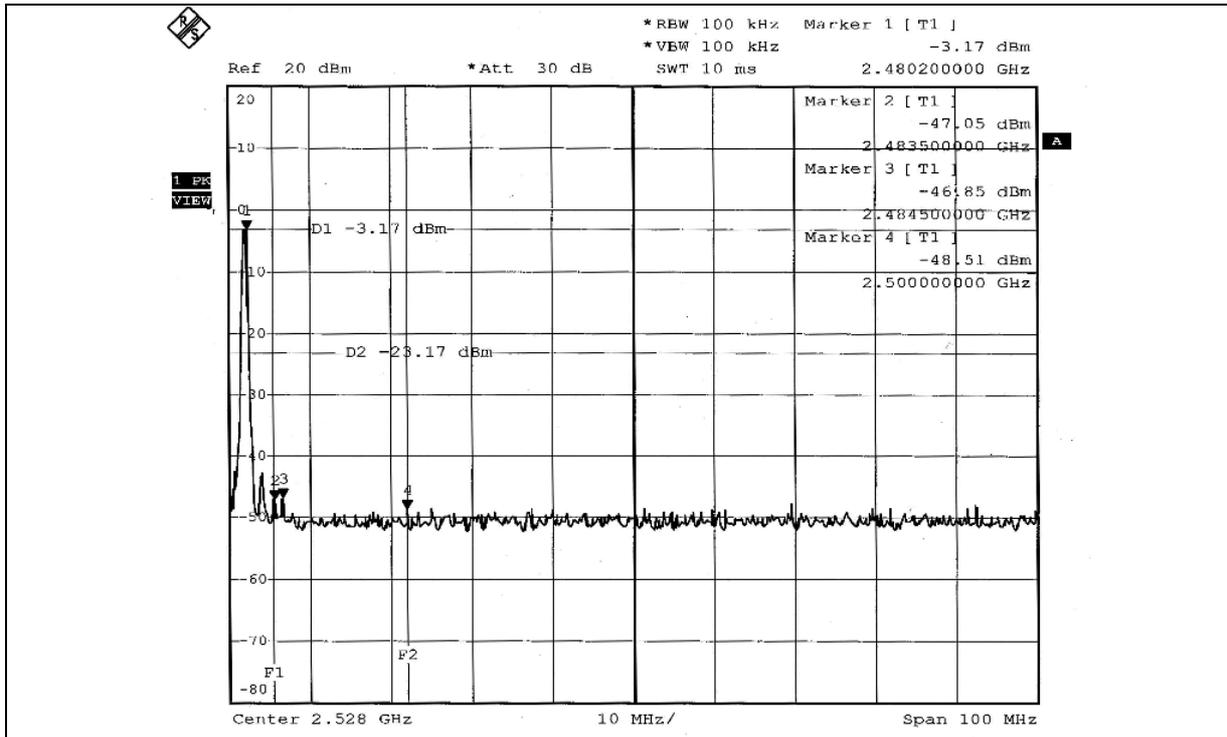
NOTE 1: The band edge emission plot on page 52 shows 48.89dBc between carrier maximum power and local maximum emission in restrict band (2.3890GHz). The emission of carrier strength list in the test result of channel 0 at the item 4.7.7 is 97.40dBuV/m (Peak), so the maximum field strength in restrict band is $97.40 - 48.89 = 48.51$ dBuV/m which is under 74 dBuV/m limit.

The band edge emission plot on page 52 shows 48.89dBc between carrier maximum power and local maximum emission in restrict band (2.3890GHz). The emission of carrier strength list in the test result of channel 0 at the item 4.7.7 is 67.40dBuV/m (Average), so the maximum field strength in restrict band is $67.40 - 48.89 = 18.51$ dBuV/m which is under 54 dBuV/m limit.

NOTE 2: The band edge emission plot on page 53 shows 43.68dBc between carrier maximum power and local maximum emission in restrict band (2.4845GHz). The emission of carrier strength list in the test result of channel 78 at the item 4.7.7 is 95.70dBuV/m (Peak), so the maximum field strength in restrict band is $95.70 - 43.68 = 52.02$ dBuV/m which is under 74 dBuV/m limit.

The band edge emission plot on page 53 shows 43.68dBc between carrier maximum power and local maximum emission in restrict band (2.4845GHz). The emission of carrier strength list in the test result of channel 78 at the item 4.7.7 is 65.70dBuV/m (Average), so the maximum field strength in restrict band is $65.70 - 43.68 = 22.02$ dBuV/m which is under 54 dBuV/m limit.







4.9 ANTENNA REQUIREMENT

4.9.1 STANDARD APPLICABLE

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

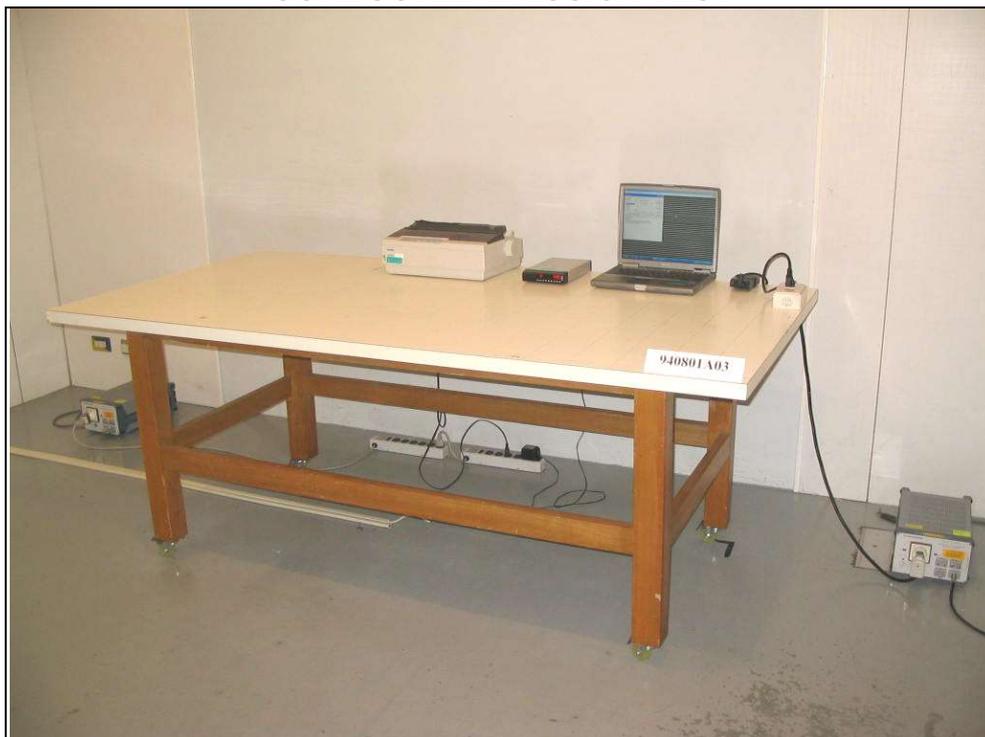
And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.9.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Printed antenna without antenna connector, and the maximum gain of this antenna is -3.5dBi .

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST





6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC, NVLAP, UL, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

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Fax: 886-3-3185050

Linko RF Lab.

Tel: 886-3-3270910

Fax: 886-3-3270892

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.



APPENDIX-A

MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.