ELECTROMAGNETIC EMISSION COMPLIANCE REPORT
FOR FCC CLASS B CERTIFICATION

Test report file number	**: E03OR-033**
Applicant	**: BLUE'cord Technology Corp.**
Address	**: 59-4, Hwaam-Dong, Yusong-Gu, Taejon, 305-348, Korea**
Manufacturer	**: BLUE'cord Technology Corp.**
Address	**: 59-4, Hwaam-Dong, Yusong-Gu, Taejon, 305-348, Korea**
Type of Equipment	**: USB TV/FM Broadcast Receiver**
FCC ID	**: RL8POCKETTV20BJ**
Model Name	**: POCKET TV**
Serial Number	**: N/A**
Total page of Report	**: 12 pages (including this page)**
Date of Incoming	**: August 05, 2003**
Date of Issuing	**: October 17, 2003**

SUMMARY

The equipment complies with the requirements of **FCC CFR 47 PART 15 SUBPART B, Class B**.

This test report contains only the results of a single test of the sample supplied for the examination. It is not a general valid assessment of the features of the respective products of the mass-production.

Prepared by:
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EMC Div.
ONETECH Corp.

Reviewed by:
Y. K. Kwon/ Director
EMC Div.
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EMC Testing Dept : 426-1 Daessangryung-Ri, Chowol-Myun, Kwangju-City, Kyunggi-Do 464-860 Korea. (TEL: +82-31-765-8289, FAX: +82-31-766-2904)

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1. VERIFICATION OF COMPLIANCE

-. APPLICANT : BLUE'cord Technology Corp.
-. ADDRESS : 59-4, Hwaam-Dong, Yusong-Gu, Taejon, 305-348, Korea
-. CONTACT PERSON : Mr. Bum-Jin, Kim / Engineer
-. TELEPHONE NO : +82-42-601-4555
-. FCC ID : RL8POCKETTV20BJ
-. MODEL NAME : POCKET TV
-. SERIAL NUMBER : N/A
-. DATE : October 17, 2003

DEVICE TYPE	Peripheral Device for Class B Computing Device - Unintentional Radiator
E.U.T. DESCRIPTION	USB TV/FM Broadcast Receiver
THIS REPORT CONCERNS	ORIGINAL GRANT
MEASUREMENT PROCEDURES	ANSI C63.4/1992
TYPE OF EQUIPMENT TESTED	PRE-PRODUCTION
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	CERTIFICATION
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15(B), 15.117
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	NO
FINAL TEST WAS CONDUCTED ON	3 METER OPEN AREA TEST SITE

-. This device has shown compliance with the conducted emissions limits in 15.107 adopted under FCC 02-107 (ET Docket 98-80). The device may be marketed after July 11, 2005 affected by the 15.37(j) transition provisions.

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

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2. GENERAL INFORMATION

2.1 Product Description

The BLUE'cord Technology Corp., Model POCKET TV (referred to as the EUT in this report) is a USB TV/FM Broadcast Receiver that is use for personal computers through the USB port. Product specification described herein was obtained from product data sheet or user's manual.

CHASSIS TYPE	Plastic
LIST OF EACH OSC. or CRY. FREQ.(FREQ.>=1MHz)	12 MHZ and 24.576 MHz
NUMBER OF LAYERS	4 Layers
TV TUNER MODULE MFR./MODEL NAME	LG Innotek / TALN_H200T
EXTERNAL CONNECTOR	Video / S-Video In, Audio In/Out, USB In

2.2 Model Differences:

The difference(s) compared to the EUT is as follows: none

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Test System Details

The model numbers for all the equipments that were used in the tested system is:

Model	Manufacturer	FCC ID	Description	Connected to
POCKET TV	BLUE'cord Technology Corp.	RL8POCKETTV20BJ	USB TV/FM Broadcast Receiver (EUT)	PC and DVD Player
GX240	DELL Computer Corp.	DOC	PC	-
E551	DELL Computer Corp.	DOC	MONITOR	PC
SK-8110	Silitek	DOC	KEYBOARD	PC
X06-08477	Microsoft Corp.	DOC	MOUSE	PC
2225C	HP	DSI6XU2225	PRINTER	PC
020-0470	Cardinal	GDE0196	MODEM	PC
DVD2000	Taeyoung Telstar	N/A	DVD Player	EUT

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2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4/1992. Radiated testing was performed at a distance of 3 meters from EUT to the antenna.

2.6 Test Facility

The open area test site and conducted measurement facilities are located on at 426-1 Daessangryung-Ri, Chowol-Myun, Kwangju-Kun, Kyunggi-Do 464-080 Korea. Description details of test facilities were submitted to the Commission on January 18, 2002. (Registration Number: 92819)

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3. SYSTEM TEST CONFIGURATION

3.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
MAIN B'D	N/A	USB 2.0 TV	N/A
TV TUNER	LG Innotek	TALN_H200T	N/A

3.2 EUT exercise Software

-. TV Broadcast Receiving Mode and Video images Mode.

3.3 Cable Description

	Power Cord Shielded (Y/N)	I/O cable Shielded (Y/N)	Length (M)
USB TV/FM Broadcast Receiver (EUT)	N/A	N	1.5(D), 1.2(D)(USB)
PERSONAL COMPUTER	N	-	1.8(P)
MONITOR	N	Y	1.5(P), 1.5(D)
KEYBOARD	N/A	Y	1.5(D)
MOUSE	N/A	N	1.3 (D)
PRINTER	N	Y	1.8(P), 1.5(D)
MODEM	N	Y	1.8(P), 1.5(D)
DVD PLAYER	N	Y	1.8(P), 1.5(D)

* The marked "(P)" means the Power Cable and "D" means the I/O Cable.

3.4 Noise Suppression Parts on Cable

	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
USB TV/FM Broadcast Receiver (EUT)	N	N/A	Y	BOTH END
PERSONAL COMPUTER	-	-	-	-
MONITOR	Y	PC END	Y	PC END
KEYBOARD	N	N/A	Y	PC END
MOUSE	N	N/A	Y	PC END
PRINTER	N	N/A	Y	BOTH END
MODEM	N	N/A	Y	BOTH END
DVD PLAYER	N	N/A	Y	BOTH END

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3.5 Equipment Modifications

To achieve compliance to CLASS B levels, the following change(s) was made by ONETECH Corp. during compliance testing:

"There were no Modified items during EMI test"

3.6 Configuration of Test System

Line Conducted Test : The EUT was connected to USB port of PC and the power line of PC was connected to LISN. All supporting equipments were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.4 /1992 7.2.3 to determine the worse operating conditions.

Radiated Emission Test : Preliminary radiated emission test was conducted using the procedure in ANSI C63.4/1992 8.3.1.1 to determine the worse operating conditions. Final radiated emission test was conducted at 3 meters open area test site.

4. PRELIMINARY TEST

4.1 AC Power line Conducted Emission Test

During Preliminary Test, the following operating mode was investigated

Operation Mode	The Worse operating condition (Please check one only)
TV Broadcast Receiving Mode and Video images Mode	X

4.2 Radiated Emission Test

During Preliminary Test, the following operating mode was investigated

Operation Mode	The Worse operating condition (Please check one only)
TV Broadcast Receiving Mode and Video images Mode	X

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5. FINAL RESULT OF MEASURMENT

Preliminary test was done in normal operation mode. And the final measurement was selected for the maximized emission level

5.1 Conducted Emission Test

Humidity Level : 47 % Temperature: 21 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART B, SECTION 15.107 (a)

Type of Test : CLASS B

Result : PASSED BY –3.77 dB at 0.85 MHz at average mode

EUT : USB TV/FM Broadcast Receiver Date: August 05, 2003

Operating Condition : TV Broadcast Receiving Mode and Video images Mode

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 9 kHz)

Frequency (MHz)	Line	Peak (dBuV)		Margin (dB)
		Emission level	Q.P Limits	
0.35	N	42.84	58.84	-16.00
0.56	N	42.43	56.00	-13.57
0.85	H	42.63	56.00	-13.37
1.27	H	43.02	56.00	-12.98
1.77	H	42.72	56.00	-13.28
4.04	H	39.08	56.00	-16.92
Frequency (MHz)	**Line**	**Average (dBuV)**		**Margin (dB)**
		Emission level	**Limits**	
0.56	N	40.77	46.00	-5.23
0.85	H	42.23	46.00	-3.77
1.27	H	39.91	46.00	-6.09
1.77	H	38.54	46.00	-7.46

Line Conducted Emission Tabulated Data

Remark : "H": Hot Line, "N": Neutral line

See next page for an overview sweep performed with peak detector.

Tested by: Eung-Chan, Kim / Test Engineer

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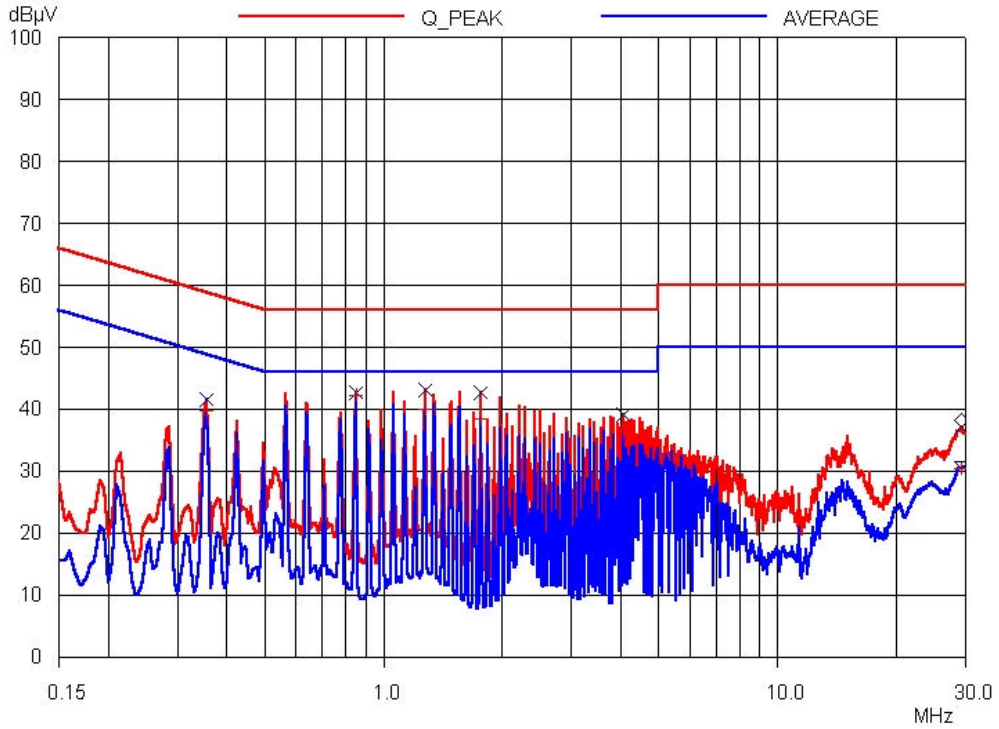
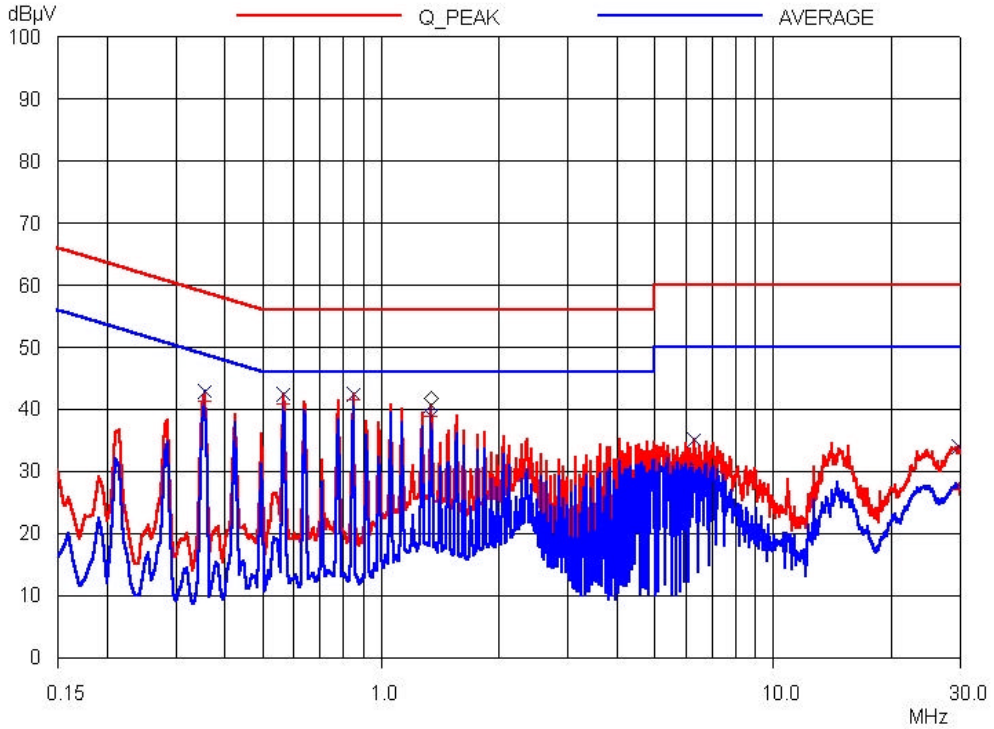


HOT LINE



NEUTRAL LINE

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5.2 Radiated Emission Test

The following table shows the highest levels of radiated emission on both polarizations of horizontal and vertical.

Humidity Level : 44 % Temperature: 23 °C
Limits apply to : FCC CFR 47, PART 15, SUBPART B, SECTION 15.109 (a)
Type of Test : CLASS B
Result : PASSED BY -3.23 dB at 551.90 MHz

EUT : USB TV/FM Broadcast Receiver Date: August 07, 2003
Operating Condition : TV Broadcast Receiving Mode and Video images Mode
Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)
Distance : 3 Meter

Radiated Emissions		Ant	Correction Factors		Total	FCC CLASS B	
Freq. (MHz)	Amp. (dBuV)	Pol.	Ant. (dBuV/m)	Cable (dB)	Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
53.30	21.30	V	10.33	0.96	32.59	40.00	-7.41
89.30	19.00	H	8.34	1.10	28.44	40.00	-11.56
134.80	21.60	V	12.77	1.29	35.66	40.00	-4.34
143.50	18.00	H	12.88	1.32	32.20	40.00	-7.80
208.50	23.80	V	10.93	1.61	36.34	40.00	-3.66
212.40	18.90	H	10.93	1.63	31.46	40.00	-8.54
263.80	22.10	V	12.53	1.86	36.49	47.00	-10.51
344.30	22.60	H	14.39	2.25	39.24	47.00	-7.76
430.60	15.00	V	15.86	2.50	33.36	47.00	-13.64
551.90	22.90	V	18.09	2.78	43.77	47.00	-3.23
561.60	22.10	V	18.22	2.82	43.14	47.00	-3.86
963.10	13.90	V	23.51	4.12	41.53	47.00	-5.47

Radiated Emissions Tabulated Data

Tested by: Eung-Chan, Kim / Test Engineer

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6. FIELD STRENGTH CALCULATION

Meter readings are compared to the specification limit correcting for antenna and cable losses

+	Meter reading	(dBuV)
+	Cable Loss	(dB)
+	Antenna Factor (Loss)	(dB/meter)
=	Corrected Reading	(dBuV/meter)
-	Specification Limit	(dBuV/meter)
=	dB Relative to Spec	(+/- dB)

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7. LIST OF TEST EQUIPMENT

No.	EQUIPMENTS	MFR.	MODEL	SER. NO.	LAST CAL	DUE CAL	USE
1.	Test receiver	R/S	ESVS 10	827864/005	NOV/02	12MONTH	■
2.	Test receiver	R/S	ESHS 10	834467/007	APR/03	12MONTH	■
3.	Spectrum analyzer	HP	8566B	3407A08547	MAY/03	12MONTH	■
4.	Spectrum analyzer	HP	8568B	3109A05456	MAY/03	12MONTH	■
5.	RF preselector	HP	85685A	3107A01264	MAY/03	12MONTH	■
6.	Quasi-Peak Adapter	HP	85650A	3107A01542	MAY/03	12MONTH	■
7.	TRILOG Broadband Antenna	Schwarzbeck	VULB9163	VULB9163 166	FEB/03	12MONTH	
8.	Biconical antenna	EMCO Schwarzbeck	3104C VHA9103	9109-4443 9109-4444 91031852	MAY/03 JUL/03 AUG/03	12MONTH	■
9.	Log Periodic antenna	EMCO Schwarzbeck	3146 9108-A(494)	9109-3213 9109-3214 9109-3217 62281001	AUG/02 JUL/03 MAY/03 AUG/02	12MONTH	■
10.	LISN	EMCO	3825/2	9109-1867 9109-1869	AUG/03 OCT/03	12MONTH	■
11.	Position Controller	EMCO	1090	9107-1038	N/A	N/A	■
12.	Turn Table	EMCO	1080-1.21	9109-1576	N/A	N/A	■
13.	Antenna Master	EMCO	1070-1	9109-1624	N/A	N/A	■

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