

**Advanced
Compliance Laboratory**

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ELECTROMAGNETIC EMISSION COMPLIANCE REPORT of

Laptop Tag
MODEL: TA-100
FCC ID: ST2-TA100

July 1, 2005

This report concerns (check one): Original grant Class II change
Equipment type: Low Power Intentional Radiator

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? yes no
If yes, defer until: _____ (date)

Company agrees to notify the Commission by _____ (date)
of the intended date of announcement of the product so that the grant can be
issued on that date.

Transition Rules Request per 15.37? yes no
If no, assumed Part 15, Subpart B for unintentional radiators - the new 47 CFR
[10-1-90 Edition] provision.

Report prepared for: REMOTE PLAY, INC.
Report prepared by: Advanced Compliance Lab
Report number: 0048-050628-01



The test result in this report IS supported and covered by the NVLAP accreditation

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1. GENERAL INFORMATION

1.1 Verification of Compliance

EUT: RADIO CONTROL CAR TRANSMITTER
 Model: TA-100
 Applicant: REMOTE PLAY, INC.
 Test Type: FCC Part 15C CERTIFICATION
 Result: PASS
 Tested by: ADVANCED COMPLIANCE LABORATORY
 Test Date: June 28, 2005
 Report Number: 0048-050628-01

The above equipment was tested by Compliance Laboratory, Advanced Technologies, Inc. for compliance with the requirement set forth in the FCC rules and regulations Part 15 subpart C. This said equipment in the configuration described in the report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

The estimated uncertainty of the test result is given as following. The method of uncertainty calculation is provided in Advanced Compliance Lab. Doc. No. 0048-01-01.

	Prob. Dist.	Uncertainty(dB)	Uncertainty(dB)	Uncertainty(dB)
		30-1000MHz	1-6.5GHz	Conducted
Combined Std. Uncertainty u_c	norm.	± 2.36	± 2.99	± 1.83



Wei Li
Lab Manager
Advanced Compliance Lab

Date: July 1, 2005

1.2 Equipment Modifications

N/A

1.3 Product Information

System Configuration

ITEM	DESCRIPTION	FCC ID	CABLE
Product	Laptop Tag TA-100 (1)	ST2-TA100	
Housing	PLASTICS		
Power Supply	3V DC Battery		
Clock/OSC Freq.	915 MHz		
Receiver	TA-100(RX)	DoC	

(1) EUT submitted for grant.

1.4 Test Methodology

Radiated tests were performed according to the procedures in ANSI C63.4-2003 at an antenna to EUT distance of 3 meters.

1.5 Test Facility

The open area test site and conducted measurement facility used to collect the radiated and conducted data are located at Hillsborough, New Jersey. This site has been accepted by FCC to perform measurements under Part 15 or 18 in a letter dated May 19, 1997 (Refer to: 31040/PRV 1300F2). The NVLAP Lab code for accreditation of FCC EMC Test Method is: 200101-0.

1.6 Test Equipment

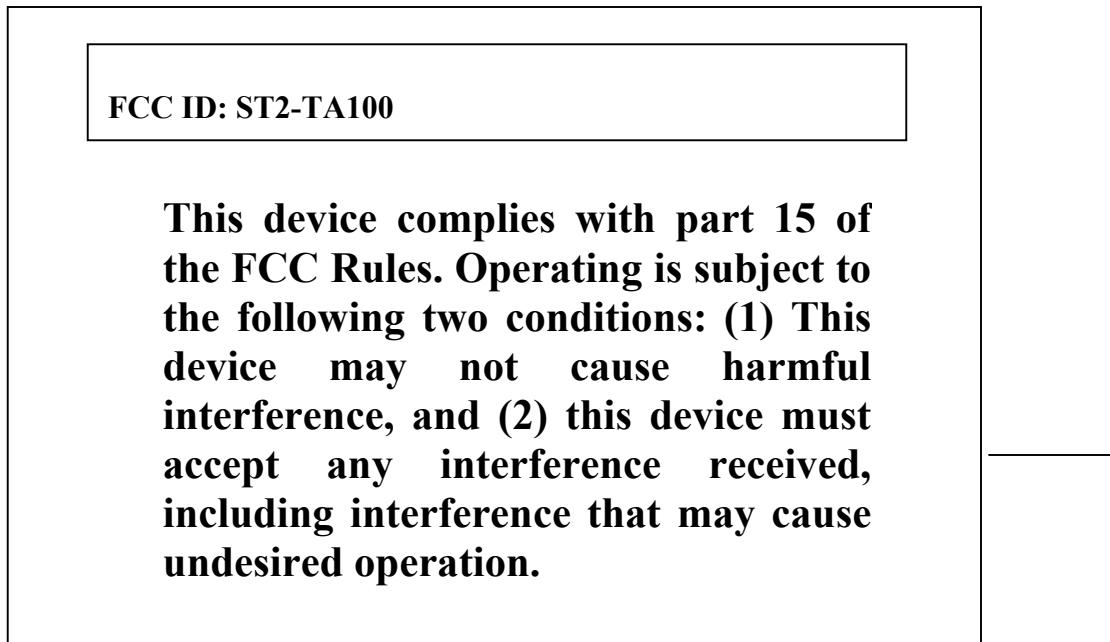
Manufacture	Model	Serial No.	Description	Last Cal dd/mm/yyyy	Cal Due dd/mm/yyyy
Hewlett-Packard	HP8546A	3448A00290	EMI Receiver	12/01/05	12/01/06
EMCO	3104C	9307-4396	20-300MHz Biconical Antenna	12/02/05	12/02/06
EMCO	3146	9008-2860	200-1000MHz Log-Periodic Antenna	09/02/05	09/02/06
Fischer Custom	LISN-2	900-4-0008	Line Impedance Stabilization Networks	23/08/04	23/08/05
Fischer Custom	LISN-2	900-4-0009	Line Impedance Stabilization Networks	23/08/04	23/08/05
EMCO	6502	2665	10KHz-30MHz Active Loop Antenna	27/02/05	27/02/06
EMCO	3115	4945	Double Ridge Guide Horn Antenna	11/08/04	11/08/05

All Test Equipment Used are Calibrated Traceable to NIST Standards.

1.7 Statement for the Document Use

This report shall not be reproduced except in full, without the written approval of the laboratory. And this report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

2. PRODUCT LABELING



**Figure 2.1 FCC ID Label
(Only FCC ID shown on EUT)**



Figure 2.2 FCC Label Location

3. SYSTEM TEST CONFIGURATION

Advanced Compliance Lab, 6 Randolph Way, Hillsborough, NJ 08844 Tel: (908) 927-9288 Fax: (908) 927-0728

3.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it). And its antenna was permanently attached to the EUT with max length, 62mm.

Testing was performed as EUT was operated at frequency channel 915MHz continuously.

3.2 Special Accessories

N/A

3.3 Configuration of Tested System

Figure 3.1 to Figure 3.3 illustrate this system, which is tested standing along.



Figure 3.1 Radiated Test Setup, position 1



Figure 3.2 Radiated Test Setup, position 2



Figure 3.3 Radiated Test Setup, position 3

4. SYSTEM SCHEMATICS

See Attachment.

Figure 4.1 System Schematics

5. RADIATED EMISSION DATA

5.1 Field Strength Calculation

The corrected field strength is automatically calculated by EMI Receiver using following:

$$FS = RA + AF + CF + AG$$

where FS: Corrected Field Strength in dB μ V/m

RA: Amplitude of EMI Receiver before correction in dB μ V

AF: Antenna Factor in dB/m

CF: Cable Attenuation Factor in dB

AG: Built-in Preamplifier Gain in dB (Stored in receiver as part of the calibration data)

5.2 Test Methods and Conditions

The initial step in collecting radiated data is a EMI Receiver scan of the measurement range below 30MHz using peak detector and 9KHz IF bandwidth / 30KHz video bandwidth. For the range 30MHz - 1GHz, 120KHz IF bandwidth / 120KHz video bandwidth are used. Both bandwidths are 1MHz for above 1GHz measurement. Up to 10th harmonics were investigated.

5.3 Test Data

The following data lists the significant emission frequencies, polarity and position, peak reading of the EMI Receiver, the FCC limit, and the difference between the peak reading and the limit. Explanation of the correction and calculation are given in section 5.1.

Test Personnel:



Typed/Printed Name: Edward Lee

Date: July 1, 2005

Radiated Test Data (CH-915MHz)

Frequency (MHz)	Polarity [H, V] Position	Height (m)	Azimuth (Degree)	Peak(2) Reading (dBμV/m)	3m Limit(1) (dBμV/m)	Difference from limit (dB)
915	H,X	1.3	20	77.0	94	-17
1830	H,X	1.3	20	48.0	54	-6
2745	H,X	1.3	0	45.0	54	-9
3660	H,X	1.3	0	45.1	54	-8.9
4575	H,X	1.4	0	45.5	54	-8.5
915	V,X	1.2	20	85.1	94	-8.9
1830	V,X	1.2	0	47.5	54	-6.5
2745	V,X	1.2	0	45.5	54	-8.5
3660	V,X	1.2	0	43.2	54	-10.8
4575	V,X	1.2	0	40.3	54	-13.7
915	H,Y	1.3	40	79.1	94	-14.9
1830	H,Y	1.3	60	41.5	54	-12.5
2745	H,Y	1.2	60	40.0	54	-14
3660	H,Y	1.2	10	49.0	54	-5
4575	H,Y	1.3	0	43.5	54	-10.5
915	V,Y	1.2	0	84.0	94	-10
1830	V,Y	1.2	0	51.0	54	-3
2745	V,Y	1.2	0	47.5	54	-6.5
3660	V,Y	1.2	0	45.8	54	-8.2
4575	V,Y	1.2	0	42.3	54	-11.7
915	H,Z	1.3	20	76.0	94	-18
1830	H,Z	1.3	20	49.8	54	-4.2
2745	H,Z	1.2	0	46.0	54	-8
3660	H,Z	1.2	40	47.5	54	-6.5
4575	H,Z	1.4	20	47.6	54	-6.4
915	V,Z	1.2	10	81.0	94	-13
1830	V,Z	1.3	0	45.6	54	-8.4
2745	V,Z	1.2	0	40.5	54	-13.5
3660	V,Z	1.2	0	40.0	54	-14
4575	V,Z	1.2	10	41.4	54	-12.6

(1) The limit for emissions within the 902-928MHz band is 50mV(94dB) per Sec. 15.249. The limit for its harmonics is 500uV (54dB). Other spurious emissions shall be lower than either its fundamental by 50dB or the limit defined in Sec. 15.209, whichever is higher.

(2) If each peak reading is less than the FCC average limit, it'll be not necessary to show the measured/ calculated average reading.

6. PHOTOS OF TESTED EUT

The following photos show the inside details of the EUT.