



TEST REPORT No: (5210)013-0248

TEST REPORT

To:	PANLINE USA, INC. DBA ALEX®		
Attn:	Drew Metz		
Address:	251 Union Street, Northvale, NJ07647		
Fax:	201-750-8032		
E-mail:	dmetz@alextos.com		
Folder No.:	BVCK10JA153MTHS-B		
Factory name:	--		
Location:	--		
Product:	Talk of the Farm MODEL: 48M		
		Sample No:	(5210)013-0248
		Test date:	January 18, 2010 to January 21, 2010
		Test Requested:	FCC Part 15 - 2008
		Test Method:	ANSI C63.4 - 2003
		FCC ID:	XX3-48M
The results given in this report are related to the tested specimen of the described electrical apparatus.			
CONCLUSION: The submitted sample was found to COMPLY with requirement of FCC Part 15 Subpart C.			
Authorized Signature:			
Reviewed by: Keith Yeung	Approved by: Steven Tsang		
Date: January 27, 2010	Date: January 27, 2010		

BUREAU VERITAS HONG KONG LIMITED –
Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, HONG KONG
Tel: +852 2331 0888
Fax: +852 2331 0889
www.cps.bureauveritas.com

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Location of the test laboratory

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) are set up for investigation and located at :

BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE

No. 2106-2107, 21/F., Westin Centre,
26 Hung To Road,
Kwun Tong, Kowloon,
Hong Kong

List of measuring equipment

Radiated Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCI	100379	24-AUG-2010
LOOP ANTENNA	ETS-LINDGREN	6502	00102266	12-MAY-2010
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	31-MAY-2010
OPEN AREA TEST SITE	BVCPS	N/A	N/A	03-JULY-2010
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	07-JULY-2010
COAXIAL CABLE	SUHNER	N/A	N/A	11-MAY-2010
SPECTRUM ANALYZER	ADVANTEST	R3127	111000909	17-DEC-2010

Conducted Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCS30	830986/030	26-SEP-2010
LISN	R&S	ENV216	100024	25-MAR-2010

Frequency error and Frequency drift, Modulation bandwidth, Frequency stability

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
EMI TEST RECEIVER	ROHDE & SCHWARZ	ESCI	100379	24-AUG-2010
CLIMATIC CHAMBER	EMV	TH-22P2S	N/A	21-MAY-2010

Remarks:-

N/A : Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result

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Equipment Under Test [EUT]

Description of Sample:

Model Name: Talk of the Farm

Model Number: 48M

Rating: 4.5Vd.c ("AA" size battery x 3)

Description of EUT Operation:

The Equipment Under Test (EUT) is a Panline USA, Inc., dba ALEX® of RFID toy. The transceiver with 7 Passive Tags is operating at 13.56MHz. The transceiver continues to transmit when buttons are turned to ON and the Passive Tags provoked the signal transmission when the transceiver tracked on them. Modulation by IC, and type is amplitude modulation.

The transceiver has different control:

1. ON/OFF button – on/off control

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. The antenna is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.

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TEST REPORT No: (5210)013-0248

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.225

Test Method: ANSI C63.4

Test Date(s): 2010-01-18

Mode of Operation: Transmission mode

Test Procedure:

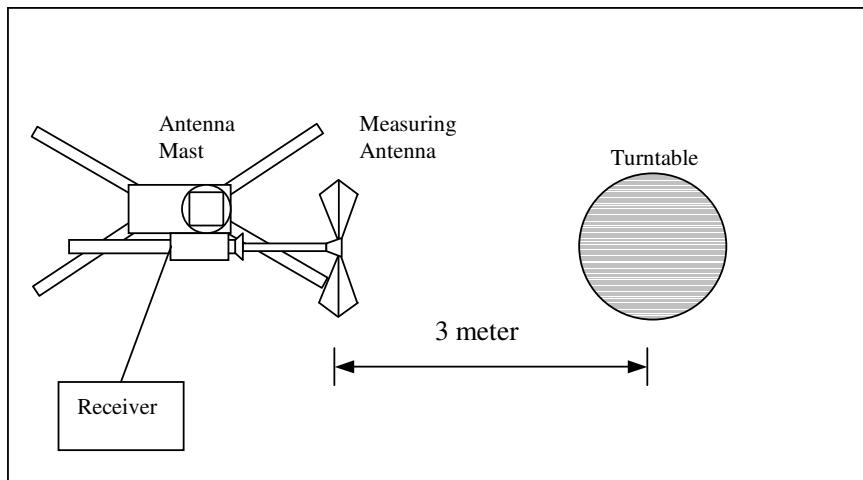
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Location: The Roof, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Test Setup: Open Area Test Site



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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.225]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission
13.553-13.567	124 dB μ V/m

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
13.56	H/0°	11.5	47.1	124.0	-76.9

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
VBW = 120KHz

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TEST REPORT No: (5210)013-0248

Radiated Emissions (9kHz – 1GHz)

Test Requirement: FCC Part 15 Section 15.209

Test Method: ANSI C63.4

Test Date(s): 2010-01-18

Mode of Operation: **Transmission mode**

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
1.705-30	300
30-88	100
88-216	150
216-960	200
Above 960	500

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
27.12	H	10.0	20.9	69.5	-48.6
40.68	H	13.2	28.6	40.0	-11.4
54.24	H	8.5	25.4	40.0	-14.6
67.80	H	7.5	23.0	40.0	-17.0
81.36	V	7.9	20.6	40.0	-19.4
94.92	H	10.1	23.4	43.5	-20.1
108.48	H	11.0	25.2	43.5	-18.3
122.04	V	10.9	26.3	43.5	-17.2
135.60	H	10.9	26.2	43.5	-17.3
149.16	H	11.0	26.5	43.5	-17.0

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
VBW = 120KHz

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TEST REPORT No: (5210)013-0248

26dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.225
Test Method: ANSI C63.4:2003 (Section 13.1.7)
Test Date: 2010-01-18
Mode of Operation: Transmission mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Limits for 26dB Bandwidth of Fundamental Emission:

Frequency [MHz]	26dB Bandwidth [KHz]
13.565	82.000

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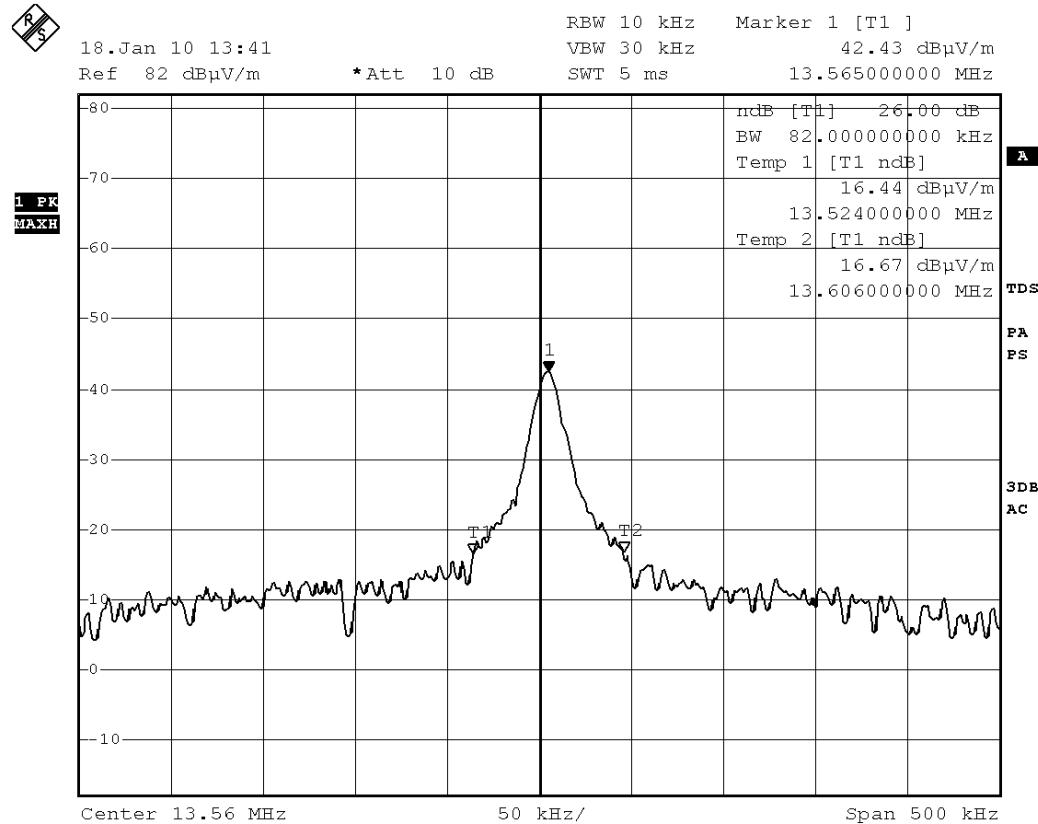
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TEST REPORT No: (5210)013-0248

Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission: PASS



Date: 18.JAN.2010 13:41:24

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Kowloon Bay Office
1/F Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
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TEST REPORT No: (5210)013-0248

Frequency Drift

Test Requirement: FCC Part 15 Section 15.225

Test Method: ANSI C63.4

Test Date(s): 2010-01-21

Mode of Operation: Transmission mode

Test Setup:

The EUT was placed at a site with temperature control and supplied with power for extreme voltage testing. Antenna with suitable frequency range was used during the test.

The test was performed in accordance with ANSI C63.4.

Location: Anechoic Chamber, No. 2106-2107, 21/F., Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Limit for Frequency Tolerance:

Maintained within +/- 0.01% of the operating frequency

Test Result of (Transmission mode): PASS

Test Condition		Nominal Transmit Frequency: 13.560MHz				
		Time				
		Start up	Two minutes after	Five minutes after	Ten minutes after	Frequency tolerance (%)
T _{nom} : 20°C	V _{nom} : 4.50V	13.56446	13.56446	13.56446	13.56446	0.00000
T _{min} : -20°C	V _{nom} : 4.50V	13.56446	13.56475	13.56475	13.65475	0.00214
T _{max} : 50°C	V _{nom} : 4.50V	13.56446	13.56446	13.56446	13.56446	0.00000

Remarks:-

N/A: Not Applicable or Not Available

***** End of Report *****

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