

TEST REPORT

To:	NKOK, INC.		To:		
Attn:	Lanny Halim		Attn:		
Address:	5354 Irwindale Ave Unit A		Attn: Address:	(B)	
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E-mail:	kohsche@nkok.com /		E-mail:		
	lanny@nkok.com /		normality estimate		
	stephen.lhhtoys@gmail.com				
Folder No.:		BVCK11A	U108MTHS-B		
Factory name:			9		
Location:				_	
Product:			eam Truck el No.: 671		
			Sample No:	(5211)215-0485	
			Test date:	August 8, 2011	
			Test Requested:	FCC Part 15 - 2010	
	00		Test Method:	ANSI C63.4 - 2003	
			FCC ID:	XQPSY091127TX	
The results	given in this report are related to	the tested sp	ecimen of the des	cribed electrical apparatus.	
CONCLUSION:	The submitted sample was foun	d to COMPLY	with requirement	of FCC Part 15 Subpart C.	
		horized Signat			
(Je	42		Br Char	ZX)	
Reviewed by: I		Appro	ved by: Steven Ts	ang	
The state of the s			September 14, 2011		

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	06-SEP-2011
LOOP ANTENNA	ETS-LINDGREN	6502	00102266	12-MAY-2012
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	01-AUG-2012
OPEN AREA TEST SITE	BVCPS	N/A	N/A	07-JUL-2012
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	26-OCT-2011
COAXIAL CABLE	SUHNER	N/A	N/A	19-SEP-2011

Remarks:-

N/A: Not Applicable or Not Available

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



Equipment Under Test [EUT] Description of Sample:

Model Name: Icecream Truck

Model Number: 671

9Vd.c. ("6F22" size battery x 1) Rating:

Description of EUT Operation:

The Equipment Under Test (EUT) is a NKOK, INC. of Radio Control toy. It is a 2 sticks and 1 switch transmitter and operating at 27.145MHz. The EUT continues to transmit sticks are being pushed or pulled, Modulation by IC, and type is pulse modulation.

The transmitter has different control:

- Left stick forward and backward control
- 2. Right stick leftward and rightward control
- 3. Switch On/Off control

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. The antenna consists of 26cm long metal spring covered with rubber. The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.



Photo of Antenna



Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.227

Test Method: ANSI C63.4

Test Date(s): 2011-08-08

Temperature: 33.0 °C Humidity: 62.0 % Atmospheric Pressure: 100.2 kPa

Mode of Operation: Transmission mode

Tested Voltage: 9Vd.c. ("6F22" size battery x 1)

Test Procedure:

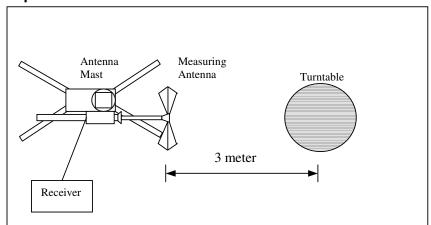
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003.

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 15.227]:

- 4								
	Frequency Range of	Field Strength of	Field Strength of					
	Fundamental	Fundamental Emission	Fundamental Emission					
		[Peak]	[Average]					
	[MHz]	[μV/m]	[μV/m]					
	26.96 – 27.28	100,000 (100 dBμV/m)	10,000 (80 dBμV/m)					

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Peak

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBμV/m)	Margin (dB)
27.145	V/0°	9.6	39.6	100	-60.4

Detection mode: # Average

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBμV/m)	Margin (dB)
27.145	V/0°	9.6	**35.4	80	-44.6

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = 20Log(0.618) =-4.2dB

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 100KHz

VBW = 300KHz



Radiated Emissions (9kHz - 1GHz)

Test Requirement: FCC Part 15 Section 15.209

Test Method: **ANSI C63.4**

2011-08-08 Test Date(s):

33.0 °C Temperature: Humidity: 62.0 % Atmospheric Pressure: 100.2 kPa

Mode of Operation: Transmission mode

Tested Voltage: 9Vd.c. ("6F22" size battery x 1)

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range	Quasi-Peak Limits
[MHz]	[μV/m]
1.705-30	300
30-88	100
88-216	150
216-960	200
Above960	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)
54.290	Н	6.7	28.9	40.0	-11.1
81.435	Н	7.1	25.2	40.0	-14.8
108.580	Н	12.0	29.8	43.5	-13.7
135.725	Н	12.2	26.6	43.5	-16.9
162.870	Н	10.6	23.8	43.5	-19.7
190.015	Н	9.6	23.5	43.5	-20.0
217.160	Н	9.9	23.8	46.0	-22.2
244.305	Н	13.2	24.2	46.0	-21.8
271.450	Н	13.2	25.1	46.0	-20.9
298.595	Н	14.4	25.4	46.0	-20.6

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)
54.290	V	6.7	29.2	40.0	-10.8
81.435	V	7.1	27.1	40.0	-12.9
108.580	V	12.0	29.5	43.5	-14.0
135.725	V	12.2	26.4	43.5	-17.1
162.870	V	10.6	23.9	43.5	-19.6
190.015	V	9.6	23.6	43.5	-19.9
217.160	V	9.9	23.5	46.0	-22.5
244.305	V	13.2	24.4	46.0	-21.6
271.450	V	13.2	24.5	46.0	-21.5
298.595	V	14.4	24.6	46.0	-21.4

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz

VBW = 120KHz



26dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.227

Test Method: ANSI C63.4:2003 (Section 13.1.7)

Test Date: 2011-08-08

Temperature: 33.0 °C Humidity: 62.0 % Atmospheric Pressure: 100.2 kPa

Mode of Operation: Transmission mode

Tested Voltage: 9Vd.c. ("6F22" size battery x 1)

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.

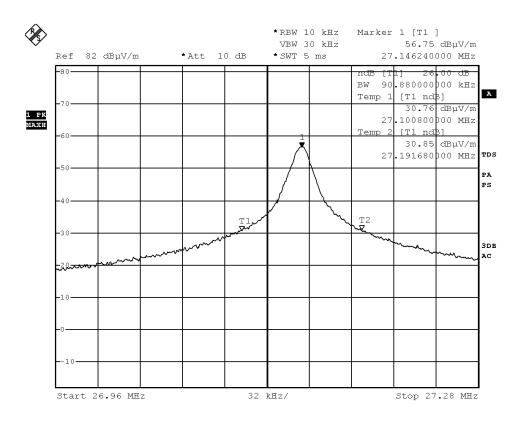
Limits for 26dB Bandwidth of Fundamental Emission:

Frequency	26dB Bandwidth	Limits
[MHz]	[KHz]	[MHz]
27.14624	90.88	within 26.96 - 27.28



Measurement Data:

Test Result of 26dB Bandwidth of Fundamental Emission: PASS



Date: 8.AUG.2011 14:16:47



Duty Cycle Correction During 100msec:

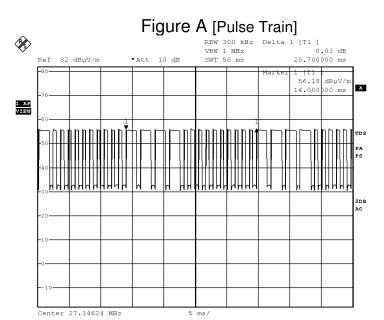
Each function key sends a different series of characters, but each packet period (20.7 msec) never exceeds a series of 4 long (1.7msec) and 10 short (0.6msec) pulses. Assuming any combination of short and long pulses maybe obtained due to encoding the worst case transmit duty cycle would be considered (4x1.7msec)+(10x0.6msec) per 20.7msec = 61.8% duty cycle. Figure A through C shows the characteristics of the pulse train for one of these functions.

Remarks:

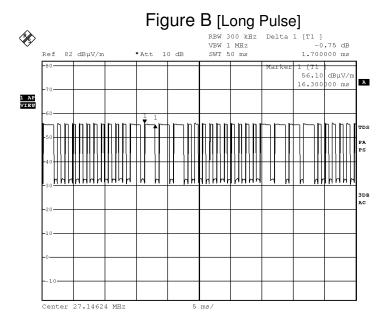
Duty Cycle Correction = 20Log(0.618) = -4.2dB

The following figures [Figure A to Figure C] show the characteristics of the pulse train for one of these functions.





Date: 8.AUG.2011 14:19:09



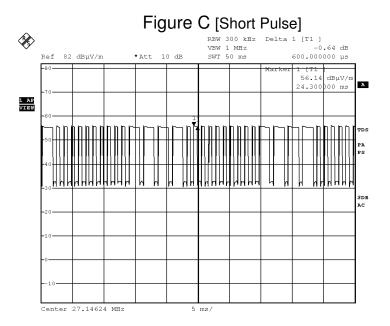
Date: 8.AUG.2011 14:19:32

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Date: 8.AUG.2011 14:20:05



Photographs of EUT

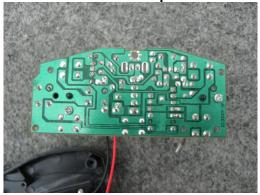
Front View of the product



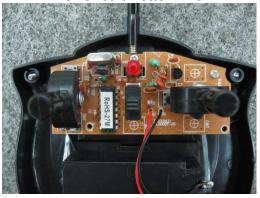
Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View





Battery compartment



Battery Cover



Front View of the product (Internal)



Rear View of the product (Internal)





Measurement of Radiated Emission Test Set Up



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