

## TEST REPORT

Report No.: HK12081020-1

ThinkGeek, Inc.

Application  
For  
Certification  
(Original Grant)  
**(FCC ID: V77-9ECEA)**

Transceiver

Prepared and Checked by:

Approved by:

Signed On File  
Wong Cheuk Ho, Herbert  
Engineer

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Wong Kwok Yeung, Kenneth  
Lead Engineer  
Date: September 18, 2012

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## INTERTEK TESTING SERVICES

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### GENERAL INFORMATION

**ThinkGeek, Inc.**  
**BRAND NAME: iCade 8-Bitty, MODEL: 9ECEA**  
**FCC ID: V77-9ECEA**

Grantee:	ThinkGeek, Inc.
Grantee Address:	11216 Waples Mill Road, Suite 100, Fairfax, Virginia, United States VA 22030, USA.
Contact Person:	Willie Vadnais
Tel:	(703) 839-8606
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Manufacturer:	N/A
Manufacturer Address:	N/A
Brand Name:	iCade 8-Bitty
Model:	9ECEA
Type of EUT:	Transceiver
Description of EUT:	Battery Powered Wireless Gaming Controller for Mobile Devices
Serial Number:	N/A
FCC ID:	V77-9ECEA
Date of Sample Submitted:	August 21, 2012
Date of Test:	August 31, 2012
Report No.:	HK12081020-1
Report Date:	September 18, 2012
Environmental Conditions:	Temperature: +10 to 40°C Humidity: 10 to 90%

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### SUMMARY OF TEST RESULT

**ThinkGeek, Inc.**  
**BRAND NAME: iCade 8-Bitty, MODEL: 9ECEA**  
**FCC ID: V77-9ECEA**

TEST SPECIFICATION	REFERENCE	RESULTS
Maximum Peak Output Power	15.247(b), (c) / RSS-210 A8.4	N/A
Hopping Channel Carrier Frequencies Separation	15.247(e) / RSS-210 A8.1	N/A
20dB Bandwidth of the Hopping Channel	15.247(a) / RSS-210 A8.1	N/A
Number of Hopping Frequencies	15.247(e) / RSS-210 A8.1	N/A
Average Time of Occupancy of Hopping Frequency	15.247(e) / RSS-210 A8.1	N/A
Antenna Conducted Spurious Emissions	15.247(d) / RSS-210 A8.5	N/A
Radiated Spurious Emissions	15.247(d) / RSS-210 A8.5	N/A
RF Exposure Compliance	15.247(i) / RSS-Gen 5.6	N/A
Transmitter Power Line Conducted Emissions	15.207 / RSS-Gen 7.2.4	N/A
Transmitter Field Strength	15.227 / RSS-310 3.8	N/A
Transmitter Field Strength	15.229 / RSS-210 A2.7	N/A
Transmitter Field Strength, Bandwidth and Timing Requirement	15.231(a) / RSS-210 A1.1.1	N/A
Transmitter Field Strength, Bandwidth and Timing Requirement	15.231(e) / RSS-210 A1.1.5	N/A
Transmitter Field Strength and Bandwidth Requirement	15.239 / RSS-210 A2.8	N/A
Transmitter Field Strength and Bandwidth Requirement	15.249 / RSS-210 A2.9	Pass
Transmitter Field Strength and Bandwidth Requirement	15.235 / RSS-310 3.9	N/A
Digital Device Radiated Emissions	15.109 / RSS-210 2.5	Pass
Digital Device Conducted Emissions	15.107 / ICES-003	N/A

- Note: 1. The EUT uses a permanently attached antenna which, in accordance to section 15.203, is considered sufficient to comply with the provisions of this section.
2. Pursuant to FCC part 15 Section 15.215(c), the 20 dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over expected variations in temperature and supply voltage were considered.

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### 1.0 General Description

#### 1.1 Product Description

The equipment under test (EUT) is a 2.4GHz transceiver with using Bluetooth technique for a game pad controller which is operating at 2402MHz – 2480MHz. There are 79 channels with the channel is separated by 1MHz channel spacing. The EUT is powered by 2X1.5V AAA batteries. The EUT has an ON/OFF switch and twelve control buttons. When EUT is switched on, the EUT will search the IOS device or Android device by Bluetooth communication. After the EUT has found the device, the EUT can communicate with the corresponding device via Bluetooth.

Antenna Type: Internal, Integral

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

#### 1.2 Related Submittal(s) Grants

This is a single application for certification of a transceiver.

#### 1.3 Test Methodology

Radiated emission measurement was performed according to the procedures in ANSI C63.4 (2009). All radiated measurements were performed in an Open Area Test Site. Preliminary scans were performed in the Open Area Test Site only to determine worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the “**Justification Section**” of this Application.

#### 1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. This test facility and site measurement data have been placed on file with the FCC.

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### 2.0 System Test Configuration

#### 2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.4 (2009).

The device was powered by 3VDC (2 x 1.5V "AAA" batteries).

For maximizing emissions, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data reported in Exhibit 3.0.

The unit was operated standalone and placed in the center of the turntable.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was mounted to a plastic stand if necessary and placed on the wooden turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

#### 2.2 EUT Exercising Software

There was no special software to exercise the device. Once the unit is powered up, it transmits the RF signal continuously.

#### 2.3 Special Accessories

There are no special accessories necessary for compliance of this product.

#### 2.4 Equipment Modification

Any modifications installed previous to testing by ThinkGeek, Inc. will be incorporated in each production model sold/leased in the United States.

No modifications were installed by Intertek Testing Services Hong Kong Ltd.

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### 2.5 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

### 2.6 Support Equipment List and Description

1. Control the testing mode by using following program: BLUETOOL Setting is followed by 92042-UM401-RDS.pdf (Provided by Applicant)

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### 3.0 Emission Results

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

#### 3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows:

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

where

- FS = Field Strength in dB $\mu$ V/m
- RA = Receiver Amplitude (including preamplifier) in dB $\mu$ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB
- AG = Amplifier Gain in dB
- AV = Average Factor in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:

$$FS = RR + LF$$

where

- FS = Field Strength in dB $\mu$ V/m
- RR = RA - AG - AV in dB $\mu$ V
- LF = CF + AF in dB

Assume a receiver reading of 52.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB are added. The amplifier gain of 29 dB and average factor of 5 dB are subtracted, giving a field strength of 27 dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

RA = 52.0 dB $\mu$ V/m	
AF = 7.4 dB	RR = 18.0 dB $\mu$ V
CF = 1.6 dB	LF = 9.0 dB
AG = 29.0 dB	
AV = 5.0 dB	
FS = RR + LF	
FS = 18 + 9 = 27 dB $\mu$ V/m	

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(27 \text{ dB}\mu\text{V/m})/20] = 22.4 \mu\text{V/m}$$



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### 3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 9920.000 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

### 3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgment: Passed by 3.3 dB

## INTERTEK TESTING SERVICES

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Applicant: ThinkGeek, Inc.  
 Model: 9ECEA  
 Worst-Case Operating Mode: Transmitting

Date of Test: August 31, 2012

Table 1

### Radiated Emissions Pursuant to FCC Part 15 Section 15.249 Requirement

**Lowest Channel**

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB $\mu$ V/m)	Average Factor (dB)	Calculated at 3m (dB $\mu$ V/m)	Average Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	2402.000	92.6	33	29.4	89.0	0	89.0	94.0	-5.0
V	4804.000	41.2	33	34.9	43.1	0	43.1	54.0	-10.9
V	7206.000	44.6	33	37.9	49.5	0	49.5	54.0	-4.5
V	9608.000	42.7	33	40.4	50.1	0	50.1	54.0	-3.9
V	12010.000	42.1	33	40.5	49.6	0	49.6	54.0	-4.4
V	14412.000	43.4	33	40.0	50.4	0	50.4	54.0	-3.6

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB $\mu$ V/m)	Peak Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	2402.000	92.6	33	29.4	89.0	114.0	-25.0
V	4804.000	41.2	33	34.9	43.1	74.0	-30.9
V	7206.000	44.6	33	37.9	49.5	74.0	-24.5
V	9608.000	42.7	33	40.4	50.1	74.0	-23.9
V	12010.000	42.1	33	40.5	49.6	74.0	-24.4
V	14412.000	43.4	33	40.0	50.4	74.0	-23.6

- NOTES: 1. Peak Detector Data unless otherwise stated.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative sign in the column shows value below limit.
4. Horn antenna is used for the emission over 1000MHz.

## INTERTEK TESTING SERVICES

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Applicant: ThinkGeek, Inc.  
 Model: 9ECEA  
 Worst-Case Operating Mode: Transmitting

Date of Test: August 31, 2012

Table 2

### Radiated Emissions Pursuant to FCC Part 15 Section 15.249 Requirement

Middle Channel

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB $\mu$ V/m)	Average Factor (dB)	Calculated at 3m (dB $\mu$ V/m)	Average Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	2441.000	93.6	33	29.4	90.0	0	90.0	94.0	-4.0
V	4882.000	41.9	33	34.9	43.8	0	43.8	54.0	-10.2
V	7323.000	43.9	33	37.9	48.8	0	48.8	54.0	-5.2
V	9764.000	42.8	33	40.4	50.2	0	50.2	54.0	-3.8
V	12205.000	42.3	33	40.5	49.8	0	49.8	54.0	-4.2
V	14646.000	45.2	33	38.4	50.6	0	50.6	54.0	-3.4

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB $\mu$ V/m)	Peak Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	2441.000	93.6	33	29.4	90.0	114.0	-24.0
V	4882.000	41.9	33	34.9	43.8	74.0	-30.2
V	7323.000	43.9	33	37.9	48.8	74.0	-25.2
V	9764.000	42.8	33	40.4	50.2	74.0	-23.8
V	12205.000	42.3	33	40.5	49.8	74.0	-24.2
V	14646.000	45.2	33	38.4	50.6	74.0	-23.4

- NOTES: 1. Peak Detector Data unless otherwise stated.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative sign in the column shows value below limit.
4. Horn antenna is used for the emission over 1000MHz.

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Applicant: ThinkGeek, Inc.  
 Model: 9ECEA

Date of Test: August 31, 2012

Worst-Case Operating Mode: Transmitting

Table 3

### Radiated Emissions Pursuant to FCC Part 15 Section 15.249 Requirement

Highest Channel

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB $\mu$ V/m)	Average Factor (dB)	Calculated at 3m (dB $\mu$ V/m)	Average Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	2480.000	92.8	33	29.4	89.2	0	89.2	94.0	-4.8
V	4960.000	42.0	33	34.9	43.9	0	43.9	54.0	-10.1
V	7440.000	43.8	33	37.9	48.7	0	48.7	54.0	-5.3
V	9920.000	43.3	33	40.4	50.7	0	50.7	54.0	-3.3
V	12400.000	41.8	33	40.5	49.3	0	49.3	54.0	-4.7
V	14880.000	44.8	33	38.4	50.2	0	50.2	54.0	-3.8

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB $\mu$ V/m)	Peak Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	2480.000	92.8	33	29.4	89.2	114.0	-24.8
V	4960.000	42.0	33	34.9	43.9	74.0	-30.1
V	7440.000	43.8	33	37.9	48.7	74.0	-25.3
V	9920.000	43.3	33	40.4	50.7	74.0	-23.3
V	12400.000	41.8	33	40.5	49.3	74.0	-24.7
V	14880.000	44.8	33	38.4	50.2	74.0	-23.8

- NOTES: 1. Peak Detector Data unless otherwise stated.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative sign in the column shows value below limit.
4. Horn antenna is used for the emission over 1000MHz.

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## INTERTEK TESTING SERVICES

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Applicant: ThinkGeek, Inc.  
Model: 9ECEA  
Worst-Case Operating Mode: Play mode

Date of Test: August 31, 2012

Table 4

**Radiated Emissions  
Pursuant to FCC Part 15 Section 15.109 Requirement**

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	33.850	38.6	16	10.0	32.6	40.0	-7.4
V	38.601	38.1	16	10.0	32.1	40.0	-7.9
V	43.975	37.8	16	10.0	31.8	40.0	-8.2
V	48.300	36.4	16	11.0	31.4	40.0	-8.6
V	52.105	35.9	16	11.0	30.9	40.0	-9.1
V	55.870	35.6	16	11.0	30.6	40.0	-9.4

- NOTES: 1. Peak Detector Data unless otherwise stated.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative sign in the column shows value below limit.
4. Horn antenna is used for the emission over 1000MHz.

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## INTERTEK TESTING SERVICES

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### 4.0 **Equipment Photographs**

For electronic filing, the photographs are saved with filename: external photos.pdf and internal photos.pdf.

### 5.0 **Product Labelling**

For electronics filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

### 6.0 **Technical Specifications**

For electronic filing, the block diagram and schematic of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

### 7.0 **Instruction Manual**

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

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### 8.0 Miscellaneous Information

The miscellaneous information includes details of the test procedure and measured bandwidth.

### 8.1 Measured Bandwidth

From the following plots, they show that the fundamental emissions are confined in the specified band (2400MHz to 2483.5MHz). In case of the fundamental emissions are within two standard bandwidths from the bandedge, the delta measurement technique is used for determining bandedge compliance. Standard bandwidth is the bandwidth specified by ANSI C63.4 (2009) for frequency being measured.

Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50dB below the level of the fundamental or to the general radiated emissions limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d).

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### 8.2 Discussion Pulse Desensitivity

Pulse desensitivity is not applicable for this device. Since the transmitter transmits the RF signal continuously.

### 8.3 Calculation of Average Factor

The average factor is not applicable for this device as the transmitted signal is a continuously signal.

### 8.4 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services Hong Kong Ltd. in the measurements of transmitter operating under the Part 15, Subpart C rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.4 (2009). A typical or an unmodulated CW signal at the operating frequency of the EUT has been supplied to the EUT for all measurements. Such a signal is supplied by a signal generator and an antenna in close proximity to the EUT. The signal level is sufficient to stabilize the local oscillator of the EUT.

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately one meter in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axis to obtain maximum emission levels. The antenna height and polarization are also varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in Exhibit 8.3.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.



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### 8.4 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements were made as described in ANSI C63.4 (2009).

The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Exhibit 8.1). Above 1000 MHz, a resolution bandwidth of 1 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the forbidden bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, unless otherwise reported. Measurements taken at a closer distance are so marked.

### 9.0 Equipment List

#### 1) Radiated Emissions Test

Equipment	EMI Test Receiver	Biconical Antenna	Log Periodic Antenna
Registration No.	EW-2500	EW-2512	EW-0446
Manufacturer	R&S	EMCO	EMCO
Model No.	ESCI	3104C	3146
Calibration Date	Feb. 24, 2012	Nov. 15, 2011	Oct. 31, 2011
Calibration Due Date	Feb. 24, 2013	May 15, 2013	Apr. 30, 2013

Equipment	Spectrum Analyzer	Double Ridged Guide Antenna
Registration No.	EW-1792	EW-1133
Manufacturer	R&S	EMCO
Model No.	FSP40	3115
Calibration Date	Sep. 28, 2011	Mar. 02, 2011
Calibration Due Date	Sep. 28, 2012	Sep. 02, 2012

#### 2) Bandedge Measurement

Equipment	Spectrum Analyzer
Registration No.	EW-1792
Manufacturer	R&S
Model No.	FSP40
Calibration Date	Sep. 28, 2011
Calibration Due Date	Sep. 28, 2012