

# RF Exposure Evaluation

## FCC ID: 2A5PO-3700-1A

### 1. Client Information

<b>Applicant</b>	:	SHANTOU CITY OURUI INDUSTRIAL Co., LTD
<b>Address</b>	:	NO. 2, XIAOJIAN ROAD, SHANGKENG COMMUNITY, GUANGYI STREET, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA
<b>Manufacturer</b>	:	SHANTOU CITY OURUI INDUSTRIAL Co., LTD
<b>Address</b>	:	NO. 2, XIAOJIAN ROAD, SHANGKENG COMMUNITY, GUANGYI STREET, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

### 2. General Description of EUT

<b>EUT Name</b>	:	Dinosaur Toys
<b>Models No.</b>	:	3700-1A, 3700-2A, 3701-1A, 3701-2A, 3702-2A, 3703-2A, 3705-1A, 3706-1A, 3710-1A, 3710-2A
<b>Model Different</b>	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is that appearance.
<b>Product Description</b>	:	Operation Frequency: 2.4G: 2407MHz~2475MHz
	:	Number of Channel: 27 channels
	:	RF Output Power: GFSK: -5.169dBm
	:	Antenna Gain: 0dBi PCB Antenna
<b>Power Rating</b>	:	DC 3.0V by AAA battery
<b>Software Version</b>	:	V1.0
<b>Hardware Version</b>	:	V1.0
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual

**Note:** More test information about the EUT please refer the RF Test Report.

## SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance  $\leq 5$  mm are determined by:

$$\left[ \frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation, mm)}} \right] * \left[ \sqrt{f_{\text{(GHz)}}} \right] \leq 3.0 \text{ for 1-g SAR}$$

$$\left[ \frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation, mm)}} \right] * \left[ \sqrt{f_{\text{(GHz)}}} \right] \leq 7.5.0 \text{ for 10-g SAR}$$

## 2. Calculation:

Test separation: 5mm						
Bluetooth Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.407	-5.169	-5±1	-4	0.398	0.124	3.0
2.445	-5.907	-5±1	-4	0.398	0.125	3.0
2.475	-5.783	-5±1	-4	0.398	0.125	3.0

### Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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