

Shenzhen Most Technology Service Co., Ltd.

East A, 1 Floor of New Aolin Factory Building, Langshan Erlu North District, Hi-Tech Industry Park, Nanshan, Shenzhen, Guangdong, People's Republic of China

Sunny Deng

TEST REPORT

FCC Rules Part 15.231e

Compiled by

(position+printed name+signature)..: File administrators Alisa Luo

Supervised by

(position+printed name+signature)..: Test Engineer Sunny Deng

Approved by

(position+printed name+signature)..: Manager Yvette Zhou

Date of issue...... Jan. 02,2024

Representative Laboratory Name.: Shenzhen Most Technology Service Co., Ltd.

East A, 1 Floor of New Aolin Factory Building, Langshan Erlu North

Address...... District, Hi-Tech Industry Park, Nanshan, Shenzhen, Guangdong,

People's Republic of China

Applicant's name...... Thin Air Brands, LLC

Address...... 5332 Talavero Place, Parker, CO 80134, USA

Test specification/ Standard.....: 47 CFR Part 1.1307

47 CFR Part 2.1093

TRF Originator...... Shenzhen Most Technology Service Co., Ltd.

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Test item description...... Hyper Drive Green Light Up Stunt Dino

Trade Mark.....: N/A

Model/Type reference.....: HD963

Listed Models: N/A

Modulation Type....: ASK

Operation Frequency.....: 40.68MHz

Hardware Version..... V1.0

Software Version..... V1.0

Rating...... DC 3V by Batteries

Result..... PASS

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TEST REPORT

Equipment under Test : Hyper Drive Green Light Up Stunt Dino

Model /Type : HD963

Listed Models N/A

Remark N/A

Applicant : Thin Air Brands, LLC

Address : 5332 Talavero Place, Parker, CO 80134, USA

Manufacturer : /

Address : /

Test Result:	PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2024-01-02	Initial Issue	Alisa Luo

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2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation₁₇

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

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2.1.3 EUT RF Exposure

EIRP =PT*GT= $(E \times D)^2/30$

where:

PT = transmitter output power in watts,

GT = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, --- $10^{(dB\mu V/m)/20)}/10^6$,

D = measurement distance in meters (m)---3m,

So PT = $(E \times D)^2 / 30 / GT$

The worst case (refer to report MTEB24010004-R) is below:

Antenna polarization: Horizontal				
Frequency (MHz)	Level (dBuV/m)	Polarization		
40.68	75.21	Peak		
40.68	59.04	Average		

Antenna polarization: Vertical				
Frequency (MHz)	Level (dBuV/m)	Polarization		
40.68	76.07	Peak		
40.68	60.03	Average		

For 40.68MHz wireless: Field strength=76.07dBuV/m Ant gain:0dBi;so Ant numeric gain=1

EIRP = PT*GT = (E x D)²/30=($10^{(dB\mu V/m)/20}$ / $10^{6*}3$)²/30=0.000012W So PT= EIRP/GT=0.000012W/1*1000=0.012mW So(0.012mW/5mm)* $\sqrt{2.407}$ GHz=0.00049

exclusion=0.00049<3.0 for 1-g SAR

So the SAR report is not required.