

TEST REPORT

Applicant:	International Tay Inc	Fax:			
	International Toy, Inc.	E-mail:			
Address :	17682 Cowan 100,Irvine,California,United States 92614				
Test Date :	2022-09-20 to 2022-09-28				

Manufacturer or Supplier :	Everwin Toys (Dongguan) Co.,Ltd			
Address :	No.150, Xiekeng Road, Qingxi Town, Dongguan, Guangdong City,Guangdong Province,China			
Sample Description:	TLG21 ID DISC W SPKR			
Model number:	020S421U003			
Additional Model :	N/A			
Rated Voltage:	DC6V (AA*4)			
FCC ID :	2ACU8INT112			

The submitted sample of the above equipment has been tested according to following standard(s)

Part 2.1091 & KDB 447498 D04

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Assistant Manager

Nideling

Name: Nick Lung

Date: September 28, 2022



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2 General Information

2.1 Client Information

Applicant:	International Toy, Inc.		
Address of Applicant:	17682 Cowan 100,Irvine,California,United States 92614		
Manufacturer:	Everwin Toys(Dongguan)Co.,Ltd		
Address of Manufacturer:	No.150, Xiekeng Road, Qingxi Town, Dongguan, Guangdong City,Guangdong Province,China		

2.2 General Description of EUT

Product Name:	TLG21 ID DISC W SPKR			
Model No.:	020\$421U003			
Test Model No.:	020\$421U003			
Trade Mark:	N/A			
Software Version:	20220902			
Hardware Version:	V02			
Power Supply:	DC6V (AA*4)			

2.3 General Description of BT

Operation Frequency:	2402MHz~2480MHz				
Modulation Type:	GFSK, π/4DQPSK, 8DPSK				
Transfer Rate:	1Mbps/2Mbps/3Mbps				
Number of Channel:	79				
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location				
Antenna Type:	PCB antenna				
Antenna Gain:	0dBi				



3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Standard Requirement

447498 D04 Interim General RF Exposure Guidance v01

3.2. SAR Test Reduction Guidance

SAR test reduction procedures [Glossary] allow using a particular set of test data as representative of other, similar, test conditions. This may be applied for data within different test positions (e.g. body, head, extremity), wireless modes (e.g. Wi-Fi, cellular), and frequency bands. This test reduction process provides for the use of test data for one specific channel, while referencing to those data for demonstrating compliance in other required channels for each test position of an exposure condition, within the operating mode of a frequency band. This is limited specifically to when the reported 1-g or 10-g SAR for the midband or highest output power channel meets any of the following conditions.

3.1.2 Limits

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum timeaveraged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of $\lambda/4$.

As for devices with antennas of length greater than λ /4 where the gain is not well defined, but always less than that of a half-wave dipole (length λ /2), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).



$$P_{\text{th (mW)}} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B. 2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20 \text{ cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
Frequency (MHz)	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169



3.1.3 EUT RF Exposure

For BT

Measurement Data

Channel	EIRP(dBm)	Maximum tune-up Power (mW)	Exclusion threshold (mW)
Lowest (2402MHz)	1.17	1.31	
Middle (2441MHz)	2.75	1.88	3.0
Highest (2480MHz)	2.74	1.88	

Remark: The Max Conducted Peak Output Power data refer to Test Report Number: (8522)248-0247 Maximum tune-up Power=1.88mW<3.0mW

The maximum output power of this product is less than 3mW So the SAR test is not required.

*** END OF REPORT ***