

MRT Technology (Taiwan) Co., Ltd

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## **RF Exposure Evaluation**

FCC ID : Z9G-EDF226

**APPLICANT**: Edifier International Limited

**Product**: Wireless Planar Magnetic Headphones

Model No. : EDF200132

Brand Name : EDIFIER - STAX SPIRIT

FCC Rule Part(s): Part 2.1093 (Portable)

Received Date : January 25, 2024

Tested By : Kaunaz Lee

(Kaunaz Lee)

Reviewed By : Paddy Chen

( Paddy Chen )

Approved By : any ker

(Chenz Ker)





The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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# **Revision History**

Report No.	Version	Description	Issue Date	Note
2401TW0113-U4	1.0	Original Report	2024-02-23	

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#### 1. PRODUCT INFORMATION

#### 1.1. Equipment Description

Product Name	Wireless Planar Magnetic Headphones		
Model No.	EDF200132		
Brand Name	EDIFIER · STAX SPIRIT		
Cumparta Dadica Chas	WPAN:		
Supports Radios Spec.	Bluetooth Dual Mode: V5.4		

## 1.2. Antenna Description

No	Brand	Part No.	Antenna Type	Peak Gain	
1	Hongji Wireless Communication (Shenzhen) Co., LTD	S5	FPCB	-0.45dBi	

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#### 2. RF Exposure Evaluation

#### 2.1. FCC Limits

According to FCC KDB 447498 D04V01 - SAR-Based Exemption

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 .

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

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<sub>20cm</sub> is per Formula.

$$P_{\rm th}~({\rm mW}) = ERP_{\rm 20~cm}~({\rm mW}) = \begin{cases} 2040f & 0.3~{\rm GHz} \le f < 1.5~{\rm GHz} \\ \\ 3060 & 1.5~{\rm GHz} \le f \le 6~{\rm GHz} \end{cases}$$

The example values shown as below are for illustration only.

Example Power Thresholds (mW)

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

Note: when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.



### 2.2. Test Result of RF Exposure Evaluation

Mode	Frequency Band (MHz)	Average Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	EIRP (mW)	FCC SAR Test Exclusion Threshold (mW)
BT / BLE	2402~2480	4.03	2.53	-0.45	2.28	3

So, this device can complies the SAR test exclusion	
———— The End	