

TEST REPORT

Product Name : DTR Marvel Bluetooth Headphones
Model Number : HP-0567
FCC ID : 2ADM5-HP-0567

Prepared for : Zeeva International Limited
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1. TEST RESULT CERTIFICATION

Applicant : Zeeva International Limited

Address : Suite 1007B, 10th Floor, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong, China

Manufacturer : Zeeva International Limited

Address : Suite 1007B, 10th Floor, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong, China

EUT : DTR Marvel Bluetooth Headphones

Model Name : HP-0567

Trademark : N/A


Measurement Procedure Used:


APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1093	PASS


The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : July 13, 2023 to July 31, 2023

Prepared by : 
Una Yu /Editor

Reviewer : 
Joe Xia/Supervisor

Approve & Authorized Signer : 
Lisa Wang/Manager



Modified History

Version	Report No.	Revision Date	Summary
V1.0	ENS2307130218W00102R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	DTR Marvel Bluetooth Headphones
Model Number:	HP-0567
Sample:	2#
Color:	BLUE, BLACK, RED
UPC#:	1922342844540, 1922342844564, 1922342844557
SKU#:	9098033, 9098035, 9098034
Device Type:	Bluetooth V5.3
Data Rate:	1Mbps for GFSK modulation 2Mbps for $\pi/4$ -DQPSK modulation 3Mbps for 8DPSK modulation
Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	1.28 dBm (0.001343 W)
Transmit Power Max:	PCB Antenna
Antenna Gain:	-0.58 dBi
Power supply:	DC 5V from USB, DC 3.7V from battery
Evaluation applied:	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation

3. Test Requirement

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ where

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

Antenna gain: -0.58 dBi

When a single module works, the measurement results are as follows:

BT

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	E.I.R.P (dBm)	Tune up Power (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK	-0.33	-0.91	-1±1	0	0.3099677	3
2441	GFSK	0.06	-0.52	0±1	1	0.3933815	3
2480	GFSK	0.30	-0.28	0±1	1	0.3965115	3
2402	Π/4-DQPSK	0.28	-0.30	0±1	1	0.3902263	3
2441	Π/4-DQPSK	0.69	0.11	0±1	1	0.3933815	3
2480	Π/4-DQPSK	0.96	0.38	0±1	1	0.3965115	3
2402	8DPSK	0.67	0.09	0±1	1	0.3902263	3
2441	8DPSK	1.14	0.56	1±1	2	0.4952379	3
2480	8DPSK	1.28	0.70	1±1	2	0.4991785	3

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***