

TEST REPORT

Product Name : DTR WATER DANCING SPK STITCH
Model Number : SP-0766-STITCH
FCC ID : 2ADM5-SP-0766

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 WATER DANCING SPK STITCH
Model Name : SP-0766-STITCH
Trademark : N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 1.1310: §1.1307(b)	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 1.1310: §1.1307(b).

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

Date of Test : August 21, 2023 to September 07, 2023

Prepared by :

Warren Deng

Warren Deng /Editor

Tim Dong

Reviewer :

Tim Dong /Supervisor



Approve & Authorized Signer :

Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2308210259E00102R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	DTR WATER DANCING SPK STITCH
Model Number:	SP-0766-STITCH
SKU:	9106566
UPC:	1922342319499
COLOR:	PURPLE
Sample:	1#
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:	79 channels
Transmit Power Max:	2.67 dBm(0.001849 W)
Antenna Gain:	-0.58 dBi
Power supply:	DC 5V from USB
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

3. Test RequirementTest Requirement:

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π =3.1416

R = distance between observation point and center of the radiator in cm

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the nd total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

4. Measurement Result

Antenna gain:-0.58 dBi

Mode	Frequency (MHz)	Output Power (dBm)	E.I.R.P(dBm)	Target Power W/tolerance (dBm)	Max tune up power tolerance (dBm)	Max tune up power tolerance (mW)	Power Density at R=20cm (mW/cm2)	Limit (mW/cm2)	Verdict
GFSK	2402	1.28	0.7	1±1	2	1.58	0.000276	1	PASS
	2441	1.59	1.01	1±1	2	1.58	0.000276	1	PASS
	2480	1.29	0.71	1±1	2	1.58	0.000276	1	PASS
pi/4-DQPSK	2402	2.11	1.53	2±1	3	2.00	0.000347	1	PASS
	2441	2.31	1.73	2±1	3	2.00	0.000347	1	PASS
	2480	2.07	1.49	2±1	3	2.00	0.000347	1	PASS
8-DPSK	2402	2.45	1.87	2±1	3	2.00	0.000347	1	PASS
	2441	2.67	2.09	2±1	3	2.00	0.000347	1	PASS
	2480	2.34	1.76	2±1	3	2.00	0.000347	1	PASS

*** End of Report ***