

TEST REPORT

Product Name : Pet Water dispenser
Model Number : P002
FCC ID : 2BMT3-P002

Prepared for : Shenzhen Geerlepol Intelligent Technology Co.,Ltd
Address : Room201, Building 18, Shapuwei ChuangYe Industrial Zone, SongGang Street, Bao'an District, Shenzhen city, China.

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1. TEST RESULT CERTIFICATION

Applicant : Shenzhen Geerlepol Intelligent Technology Co.,Ltd

Address : Room201, Building 18, Shapuwei ChuangYe Industrial Zone, SongGang Street, Bao'an District, Shenzhen city, China.

Manufacturer : Shenzhen Geerlepol Intelligent Technology Co.,Ltd

Address : Room201, Building 18, Shapuwei ChuangYe Industrial Zone, SongGang Street, Bao'an District, Shenzhen city, China.

EUT : Pet Water dispenser

Model Name : P002

Trademark : N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1091, 1.1307(b)(1)	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), § 2.1091, 1.1307(b)(1).

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

Date of Test : December 16, 2024 to December 31, 2024

Prepared by : Warren Deng
Warren Deng /Editor

Reviewer : Tim Dong
Tim Dong /Supervisor

Approve & Authorized Signer :  EMTEK(DONGGUAN) CO., LTD. TESTING
Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2412160098E00103R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	Pet Water dispenser
Model Number:	P002
Sample:	1#
Data Rate:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Modulation:	DSSS, OFDM, GFSK
Operating Frequency Range(s) :	2412-2462MHz for 802.11b/g/n(HT20); 2402-2480MHz for BLE
Transmit Power Max:	12.67dBm/0.018493W) for 2.4G wifi -0.71 dBm(0.000849 W) for BLE
Antenna Gain:	2.54 dBi
Power supply:	DC 5V 2A from Adapter
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

3. Test Requirement:

RF EXPOSURE EVALUATION

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: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

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

gain:	2.54 dBi	WIFI 2.4G FCC EMF							
Mode	Frequen cy (MHz)	Output Power (dBm)	E.I.R.P(d Bm)	Target Power W/toleran ce (dBm)	Max tune up power(dB m) tolerance	Max tuneup power(m W) tolerance	Power Density at R=20cm (mW/cm2)	Limit (mW/c m2)	Verdict
802.11b	2412	12.67	15.21	15±1	16	39.81	0.014214	1	PASS
	2437	11.82	14.36	14±1	15	31.62	0.011291	1	PASS
	2462	11.62	14.16	14±1	15	31.62	0.011291	1	PASS
802.11g	2412	11.55	14.09	14±1	15	31.62	0.011291	1	PASS
	2437	10.86	13.40	13±1	14	25.12	0.008969	1	PASS
	2462	10.56	13.10	13±1	14	25.12	0.008969	1	PASS
802.11n(HT 20)	2412	12.05	14.59	14±1	15	31.62	0.011291	1	PASS
	2437	11.35	13.89	13±1	14	25.12	0.008969	1	PASS
	2462	10.62	13.16	13±1	14	25.12	0.008969	1	PASS

gain:	2.54 dBi	BLE							
Mode	Frequen cy (MHz)	Output Power (dBm)	E.I.R.P(d Bm)	Target Power W/toleran ce (dBm)	Max tune up power(dB m) tolerance	Max tuneup power(m W) tolerance	Power Density at R=20cm (mW/cm2)	Limit (mW/c m2)	Verdict
GFSK	2402	-0.71	1.83	1±1	2	1.58	0.000566	1	PASS
	2440	-1.34	1.20	1±1	2	1.58	0.000566	1	PASS
	2480	-1.12	1.42	1±1	2	1.58	0.000566	1	PASS

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

*** End of Report ***