



Aerospace Testing Technology (Shenzhen) Co., Ltd.

101, Block A4, No. 5, 8th Road, Shapu Yangyong Industrial Park,
Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Test Report

Report No.: AST2208303001B-1
Applicant's name: Chengdu Cryo-Push Medical Technology Co., Ltd
Address: 102, 105, Zone 20, Huayin Industrial Port, No.618, KeXing Road(West),
Wenjiang District, Chengdu 611137 Sichuan, P.R. China
Manufacture's Name: Chengdu Cryo-Push Medical Technology Co., Ltd
Address: 102, 105, Zone 20, Huayin Industrial Port, No.618, KeXing Road(West),
Wenjiang District, Chengdu 611137 Sichuan, P.R. China
Factory: Chengdu Cryo-Push Medical Technology Co., Ltd
Address: 102, 105, Zone 20, Huayin Industrial Port, No.618, KeXing Road(West),
Wenjiang District, Chengdu 611137 Sichuan, P.R. China
Product name: Vibrating Foam Roller Plus
Model/Type reference: A02-M-007
Trademark: /
Standards: EN/IEC 62311: 2020
Date of testing: Aug.05, 2022 - Aug.05, 2022
Date of issue: Aug.12, 2022
Test Result: PASS *

Remark:

* In the configuration tested, the EUT complied with the standards specified above.

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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Aug.12, 2022

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Report Revision History

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1 General description

1.1 Feature of equipment under test (EUT)

Product name:	Vibrating Foam Roller Plus
Model name:	A02-M-007
Series model:	N/A
Difference in series models:	N/A
EUT Power Rating:	DC 5V for adapter with AC 100-240V 50/60Hz
Adapter information:	Model:HKA03619021-8L Input:100-240VAC 50/60Hz Output:5VDC 2.1A
Antenna type:	Integrated antenna
Antenna gain:	3dBi(Declare by applicant)
Hardware version	N/A
Software version	N/A
WIFI:	
Tx/Rx frequency range:	2412MHz~2472MHz for 802.11b/g/n20 2422MHz~2462MHz for 802.11n40 5180MHz~5240MHz for 802.11a/n(HT20)/ac20; 5190MHz~5230 MHz for802.11a/n(HT40)/ac40;
WIFI feature:	<input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n20 <input checked="" type="checkbox"/> 802.11n40 <input checked="" type="checkbox"/> 802.11ac20 <input checked="" type="checkbox"/> 802.11ac40 <input checked="" type="checkbox"/> 802.11ac80
Modulation type:	DSSS, OFDM,256QAM, 64QAM, 16QAM, BPSK, QPSK

1.2 TESTING SITE

Test laboratory:	Aerospace Testing Technology (Shenzhen) Co., Ltd.
Laboratory location:	1/F, Block A4, No. 5, 8th Road, Shapu Yangyong Industrial Park, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
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2 EN 62311 requirement

2.1 General information

The essential requirements of Directive 99/5/ec in the article 3.1(a) and the limits must be taken from Council Recommendation 99/519/EC for General Population or from the ICNIRP Guidelines for Occupational Exposure, EN 62311:2008 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz).

2.2 Limits

Reference levels for electric, magnetic and electromagnetic fields (0Hz to 300GHz)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μ T)	Equivalent plane wave power density S_{eq} (W/m ²)
0-1Hz	-	3.2×10^4	4×10^4	-
1-8Hz	10000	$3.2 \times 10^4 / f^2$	$4 \times 10^4 / f^2$	-
8-25Hz	10000	$4000 / f$	$5000 / f$	-
0.025-0.8kHz	$250 / f$	$4 / f$	$5 / f$	-
0.8-3kHz	$250 / f$	5	6.25	-
3-150kHz	87	5	6.25	-
0.15-1MHz	87	$0.73 / f$	$0.92 / f$	-
1-10MHz	$87 / f^{1/2}$	$0.73 / f$	$0.92 / f$	-
10-400MHz	28	0.073	0.092	2
400-2000MHz	$1.375 f^{1/2}$	$0.037 f^{1/2}$	$0.0046 f^{1/2}$	$f / 200$
2-300GHz	61	0.16	0.2	10

Note:

(1) As indicated in the frequency range column.

(2) For frequencies between 100 kHz and 10GHz, S_{eq} , E2, H2 and B2 are to be averaged over any six-minute period.

(3) For frequencies exceeding 10GHz, S_{eq} , E2, H2 and B2 are to be averaged over any 68/.1.05-minute period (.in GHz).

(4) No E-field value is provided for frequencies <1Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 20kV/m. Spark discharges causing stress or annoyance should be avoided.

2.3 Result

The maximum antenna gain is: 3dBi
2.4G WIFI

Mode	Peak output power (dBm)	Antenna Gain (dBi) Numeric	Output power e.r.p. (W)	Power Density (S) (W/m ²)	Limit (S) (W/m ²)	Result
802.11b	12.37	2.0	0.0173	0.069	10	Pass
802.11g	10.38	2.0	0.0109	0.043	10	
802.11n20	10.31	2.0	0.0107	0.043	10	
802.11n40	8.34	2.0	0.0068	0.027	10	

U-NII Band 1

Mode	Peak output power (dBm)	Antenna Gain (dBi) Numeric	Output power e.r.p. (W)	Power Density (S) (W/m ²)	Limit (S) (W/m ²)	Result
802.11a	9.41	2.0	0.0087	0.035	10	Pass
802.11n20	9.42	2.0	0.0087	0.035	10	
802.11ac20	10.45	2.0	0.0111	0.044	10	
802.11n40	7.03	2.0	0.0050	0.020	10	
802.11ac40	8.16	2.0	0.0065	0.026	10	
802.11ac80	4.89	2.0	0.0031	0.012	10	

If WIFI (2.4G+5G) operate simultaneously, Then Total Power Density (max)=0.069+0.044=0.113(W/m²), is below 10(W/m²), So the Result is pass.

Note:

- The access distance is 20cm.
- $S = PG / 4\pi R^2$
 P = Power input to antenna
 G = Numeric Antenna Gain
 R = distance to the center of radiation of antenna (in meter) =0.2m.

----END OF REPORT----