

SAR Report

Applicant : HIVOX BIOTEK INC.
Product Type : HEATING TENS/EMS
Trade Name : HIVOX BIOTEK INC.
Model Number : FT-810
Applicable Standard : 47 CFR § 2.1093
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Issued by

Approved By :

(Kris Pan)

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade District,
Taoyuan City 334025, Taiwan (R.O.C.)
Tel : +886-3-2710188 / Fax : +886-3-2710190



Taiwan Accreditation Foundation accreditation number: 1330

Test Firm MRA designation number: TW0010

Note:

- 1.The test results are valid only for samples provided by customers and under the test conditions described in this report.
- 2.This report shall not be reproduced except in full, without the written approval of A Test Lab Technology Corporation.
- 3.The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.

Revision History

Rev.	Issued Date	Revisions	Revised By
00	Mar. 10, 2022	Initial Issue	Yu Chiang

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1. General Information

1.1 Reference Applicable Standard

Standard	Description	Version
47 CFR Part §2.1093	Radiofrequency radiation exposure evaluation: portable devices	-
IEEE C95.1	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz	1992
KDB 447498 D04	RF exposure procedures and equipment authorization policies for mobile and portable devices	v01

2. Description of Equipment under Test (EUT)

Applicant	HIVOX BIOTEK INC. 5F., No.123, Xingde Rd., Sanchong Dist., New Taipei City 241, Taiwan, R.O.C.			
Manufacturer	HIVOX BIOTEK INC. 5F., No.123, Xingde Rd., Sanchong Dist., New Taipei City 241, Taiwan, R.O.C.			
Product Type	HEATING TENS/EMS			
Trade Name	HIVOX BIOTEK INC.			
Model Number	FT-810			
FCC ID	2A32IFT-810			
Frequency Range	Bluetooth : 2402 - 2480 MHz			
Supported Modulations	Bluetooth : LE			
Antenna Information	Model	Type	Max. Gain (dBi)	
	SMD8105-S08	Planar inverted-F Antenna	2400 – 2483.5	1.5

The above equipment was tested by A Test Lab Techno Corp. For compliance with the requirements set forth in 47 CFR § 2.1091 / 47 CFR § 1.1310. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

3. RF Exposure Limit

Table 1 Safety Limits for Controlled / Uncontrolled Environment Exposure

SAR Exposure Limit		
	General Population / Uncontrolled Exposure ¹ (W/kg)	Occupational / Controlled Exposure ² (W/kg)
Spatial Peak SAR ³ (head or Body)	1.60	8.00
Spatial Peak SAR ⁴ (Whole Body)	0.08	0.40
Spatial Peak SAR ⁵ (Hands / Feet / Ankle / Wrist)	4.00	20.00

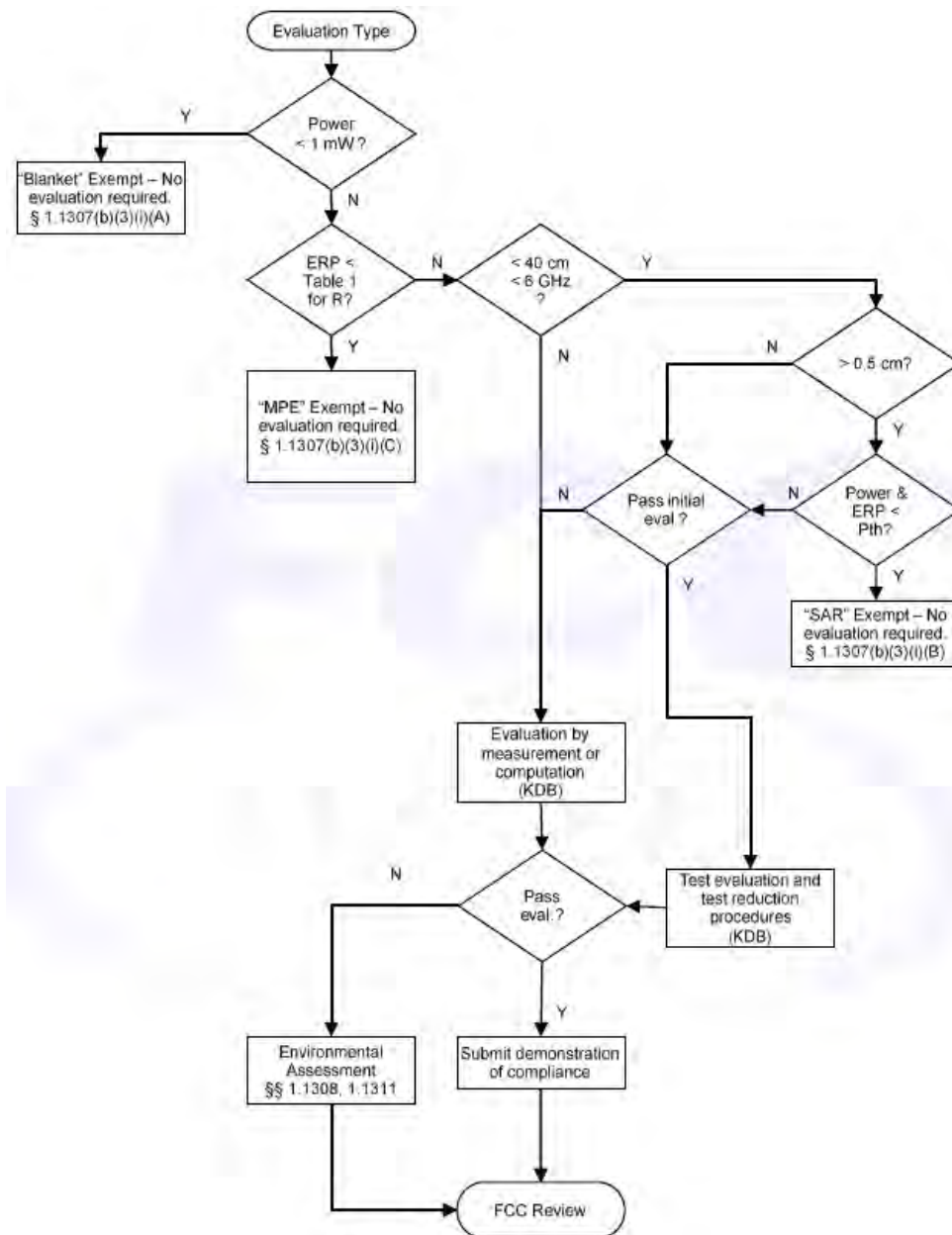
Notes :

1. General Population / Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.
2. Occupational / Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation).
3. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
4. The Spatial Average value of the SAR averaged over the whole body.
5. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

4. SAR Exemption Evaluation

SAR exemption evaluation was performed according to the appendix A and B in KDB447498 D04.

The General Sequence for Determination of Procedure demonstrated in Figure A.1 of KDB447498 D04 was applied.



5. Conducted Power

Bluetooth LE		
MHz	Average Power	Tune-up Power
	dBm	dBm
2402	1.62	2.00
2440	0.28	0.50
2480	-0.90	0.00

6. Test Result

SAR Test Exemption								
Antenna	Band	Frequency	Tune-up Power		Distance of ANT To User (mm)		SAR Test Exemption Threshold P_{th} (mW)	
		(GHz)	(dBm)	(mW)	Front	Back	Front	Back
Bluetooth ANT	Bluetooth 2402 - 2480 MHz	2.480	2	1.58	< 5	< 5	3	3
							EXEMPT	EXEMPT

Note:

1. The determination of exemption is based on §1.1307(b)(3)(i)(B).
2. If the output power is more than the power threshold then SAR testing is required.
3. The highest frequency and power were used in order to evaluate conservatively.
4. The string "EXEMPT" denotes that SAR test exclusion can be applied; the string "MEASURE" denotes that SAR test is required.

7. Conclusion

The result shows that this device is qualified for SAR-Based Exemption in KDB447498. Therefore, SAR testing is not required.

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