

MRT Technology (Taiwan) Co., Ltd

Phone: +886-3-3288388 Fax: +886-3-3288918 Web: www.mrt-cert.com Report No.: 2401TW0801-U2 Report Version: 1.0 Issue Date: 2024-01-12

RF Exposure Evaluation

FCC ID : 2AI5QTM0002

APPLICANT: Taiwan Aulisa Medical Devices Technologies, Inc.

Application Type: Certification

Product: Temperature Module

Model No. : GA-TM0002

Brand Name : AULISA

Trademark :

AULISA®

FCC Rule Part(s): : Part 2.1093 (Portable)

Received Date : January 3, 2024

Tested By : Owen Tsai

(Owen Tsai)

Reviewed By : Paddy Chen

(Paddy Chen)

Approved By : any ker

(Chenz Ker)





The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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Revision History

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1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name	Temperature Module
Model No.	GA-TM0002
Brand Name	AULISA
Trademark	AULISA®
Supports Radios Spec.	Bluetooth Single Mode: V4.2

1.2. Antenna Description

No.	Brand	Part No.	Antenna Type	Peak Gain	
1	Unictron	H2UB4K1H1B0100	Chip	-0.3dBi	

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2. RF Exposure Evaluation

2.1. FCC Limits

According to FCC KDB 447498 D04V01 - SAR-Based Exemption

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula .

$$P_{\rm th} \; ({\rm mW}) = \begin{cases} ERP_{\rm 20\; cm} (d/20\; {\rm cm})^x & d \leq 20\; {\rm cm} \\ \\ ERP_{\rm 20\; cm} & 20\; {\rm cm} < d \leq 40\; {\rm cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula.

$$P_{\rm th}~({\rm mW}) = ERP_{\rm 20~cm}~({\rm mW}) = \begin{cases} 2040f & 0.3~{\rm GHz} \le f < 1.5~{\rm GHz} \\ \\ 3060 & 1.5~{\rm GHz} \le f \le 6~{\rm GHz} \end{cases}$$

The example values shown as below are for illustration only.

Example Power Thresholds (mW)

	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
(z)	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
Frequency	1900	3	12	26	44	66	92	122	157	195	236
edn	2450	3	10	_ 22	38	59	83	111	143	179	219
Fr	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

Note: when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.



2.2. Test Result of RF Exposure Evaluation

Mode	Frequency Band (MHz)	Average Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	EIRP (mW)	FCC SAR Test Exclusion Threshold (mW)
BLE	2402~2480	2.35	1.72	-0.3	1.60	3

So, this device can complies the SAR test exclusion.	
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