

MPE TEST REPORT

Applicant TAKAYA Corporation

FCC ID MK4IN-M-PAD

Product Resetter

Model IN-M-PAD

Report No. R2311A1309-M1

Issue Date January 23, 2024

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC 47 CFR Part 1 1.1310.** The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA Technology** (Shanghai) Co., Ltd. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.

Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

City: Shanghai

Post code: 201201

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1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 20%, Max. = 80%
Ground system resistance	< 0.5 Ω
A 12 4 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.

2 Description of Equipment Under Test

Client Information

Applicant	TAKAYA Corporation
Applicant address	661-1 Ibara-cho,Ibara-shi,Okayama, Japan
Manufacturer	TAKAYA Corporation
Manufacturer address	661-1 Ibara-cho,Ibara-shi,Okayama, Japan

General Technologies

EUT Description		
Model	IN-M-PAD	
Lab internal SN	R2311A1309/S01	
Hardware Version	19077P01-PWB-V11	
Software Version	19077S01-V14	
Date of Testing	December 11, 2023 ~ December 25, 2023	
Date of Sample Received	December 4, 2023	

Note:

- 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.
- 2. All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

3 Test Result

According to section 1.1310 of FCC 47 CFR Part 1, limits for maximum permissible exposure (MPE) are as following.

TABLE 1 - LIMITS FOR MAXIMUN PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength	Magnetic Field Strength	Power Density	Averaging Time
	(V/m)	(A/m)	(mVV/cm2)	(minutes)
	(A) Limits for Occu	pational/Controlle	d Exposures	
0.3-3.0	614	1.63	*(100)	6
3-30	1842/f	4.89/f	*(900/f2)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B)	Limits for General	Population/Uncont	rolled Exposure	,
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f2)	30
30-300	27,5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

f = frequency in MHz

Note 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational / controlled limits apply provided he or she is made aware of the potential for exposure.

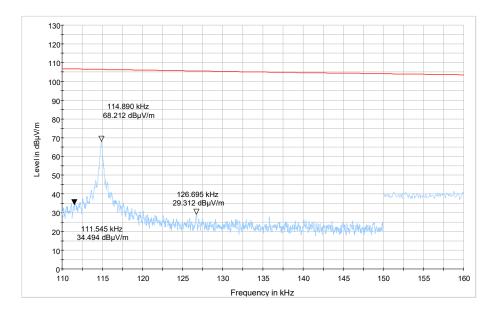
Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

The E-field Strength Limit for 0.3~3.0 MHz is 614, So

Frequency (KHz)	E-field Strength Limit (V/m)
115.1	614

^{* =} Plane-wave equivalent power density

A symbol ($^{dB\tilde{\mathfrak{m}}/m}$) in the test plot below means (dBµV/m)



110 KHz ~ 160 KHz

Test	Max. E-field	Max. E-field	Max. E-field	E-field	
Frequency	Strength @ 3m	Strength @ 20cm	Strength @ 20cm	Strength Limit	Conclusion
(KHz)	(dBµV/m)	(dBµV/m)	(V/m)	(V/m)	

Note: Max. E-field Strength @ 20cm = Max. E-field Strength @ 3m + 20log (3m/0.2m)

V/m=10^{(((dBuV/m)-120)/20)}

Note: For transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.



ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

*****END OF REPORT *****

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