

MRT Technology (Suzhou) Co., Ltd Phone: +86-512-66308358

eb: www.mrt-cert.com

Report No.: R25S1030072-U401 Report Version: V01 Issue Date: 2025-08-04

RF Exposure Evaluation Declaration

FCC ID: DD4MXWNDX2

Applicant: Shure Incorporated

Product: Networked Docking Station

Model No.: MXWNDX2

Trade Mark: SHURE SHURE

FCC Rule Part(s): FCC Part 2.1091

Result: Complies

Evaluation Date: 2025-08-01

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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Template Version: 2.0 1 of 10



Revision History

Report No.	Version	Description	Issue Date	Note
R25S1030072-U401	V01	Initial Report	2025-08-04	Valid



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1. General Information

1.1. Applicant

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

1.2. Manufacturer

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

1.3. Testing Facility

\boxtimes	Test Site – MRT Suzhou Laboratory					
	Laboratory Loca	tion (Suzhou - Wu	zhong)			
	D8 Building, No.2	Tian'edang Rd., W	uzhong Economic De	velopment Zone, Su	ızhou, China	
	Laboratory Loca	tion (Suzhou - SIP)			
	4b Building, Liand	o U Valley, No.200	Xingpu Rd., Shengpι	ı Town, Suzhou Indu	strial Park, China	
	Laboratory Loca	tion (Suzhou - Wu	jiang)			
	Building 1, No.1 X	ingdong Road, Wuj	jiang, Suzhou, Jiangs	u, People's Republic	c of China	
	Laboratory Accre	editations				
	A2LA: 3628.01		CNAS	: L10551		
	FCC: CN1166		ISED:	CN0001		
	VCCI:	□R-20025	□G-20034	□C-20020	□T-20020	
		□R-20141	□G-20134	□C-20103	□T-20104	
	Test Site – MRT Shenzhen Laboratory Laboratory Location (Shenzhen)					
	1G, Building A, Ju	nxiangda Building,	Zhongshanyuan Roa	d West, Nanshan Di	strict, Shenzhen, China	
	Laboratory Accreditations					
	A2LA: 3628.02	A2LA: 3628.02 CNAS: L10551				
	FCC: CN1284	CC: CN1284 ISED: CN0105				
	Test Site – MRT Taiwan Laboratory					
	Laboratory Location (Taiwan)					
	No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)					
	Laboratory Accre	editations				
	TAF: 3261					
	FCC: 291082, TW	/3261	ISED:	TW3261		



1.4. Product Information

Product Name	Networked Docking Station
Model No.	MXWNDX2
Bluetooth Specification	BLE Only
Software Version	6.4.0.1
Hardware Version	Rev 02
Antenna Specification	Refer to clause 1.5
Operating Temp.	5 ~ 40 °C
Power Supply	PoE Input (37 - 57VDC, 12.95W)

Note: The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer.

1.5. Antenna Details

Technology	Frequency Range (MHz)	Antenna Type	Max Peak Gain (dBi)
Bluetooth-LE	2400 ~ 2483.5	PIFA Antenna	3.88

Note: The antenna gain is from antenna data sheet provided by the manufacturer.

1.6. Device Classification

According to the user manual, this device is classified as a Mobile Device. So, the RF exposure evaluation requirements of § 2.1091 for mobile device exposure conditions subject to MPE limits.

1.7. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 2.1091
- KDB 447498 D04 Interim General RF Exposure Guidance v01



2. RF Exposure Evaluation

2.1. Limits

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	Electric Field	Magnetic Field	Power Density	Average Time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(Minutes)
	(A) Limits fo	r Occupational/ Contro	l Exposures	
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
	(B) Limits for Gen	eral Population/ Uncor	ntrolled Exposures	
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f= frequency in MHz. * = Plane-wave equivalent power density.



2.2. MPE Exemptions

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph §1.1307(b)(2) of this section): A single RF source is exempt if:

(Option A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph §1.1307(b)(3)(ii)(A) of this section.

Medical implant devices may only use this exemption and that in paragraph §1.1307(b)(3)(ii)(A);

(Option B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P is given by:

$$P th(mW) = \{ERP_{20cm}(d / 20cm)^x d \le 20cm\}$$

$$P th(mW) = \{ERP_{20cm} 20cm < d \le 40cm\}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20cm}\sqrt{f}}\right)$$
 and f is in GHz;

and

$$ERP_{20cm}(mW) = \{2040f \ 0.3GHz \le f < 1.5GHz\}$$

$$ERP_{20cm}(mW) = \{3060 \ 1.5GHz \le f \le 6GHz\}$$

(Option C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).



Table 1 to §1.1307(b)(3)(i)(C)	- Single RF Sources Sub	ject to Routine Environmental Evaluation

RF Source Frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1920R²
1.34-30	3450R ² /f ²
30-300	3.83R ²
300-1,500	0.0128R ² f
1,500-100,000	19.2R ²

For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph §1.1307(b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph §1.1307(b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{i=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph §1.1307(b)(3)(i)(B) of this section for P_{th} , including existing exempt transmitters and those being added.

 \boldsymbol{b} = number of fixed, mobile, or portable RF sources claiming exemption using paragraph §1.1307(b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

 P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

 $P_{th,i}$ = the exemption threshold power (P_{th}) according to paragraph §1.1307(b)(3)(i)(B) of this section for fixed,



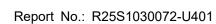
mobile, or portable RF source i.

 ERP_j = the ERP of fixed, mobile, or portable RF source j.

 $ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph §1.1307(b)(3)(i)(C) of this section.

Evaluated_k = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limit_k = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from §1.1310 of this chapter.





2.3. Calculated Result

Product	Networked Docking Station
Test Item	RF Exposure Evaluation

Test Mode	Frequency Band	Tune-up	Antenna Gain	Tune-up ERP	Tune-up ERP
	(MHz)	Conducted Power	(dBi)	(dBm)	(mW)
		(dBm)			
Bluetooth-LE	2400 ~ 2483.5	6.00	3.88	7.73	5.93

Notes:

- 1. Bluetooth-LE Tune-up Conducted Power (dBm) was declared by the manufacturer.
- 2. Tune-up ERP (dBm) = Tune up Conducted Power (dBm) + Antenna Gain (dBi) 2.15.
- 3. Tune-up ERP (mW) = $10^{[Tune-up ERP (dBm)/10]}$

For single RF source, Option C

Test Mode	Frequency Band	λ/2π	R	Tune-up ERP	Thresholds ERP
	(MHz)	(m)	(m)	(mW)	(mW)
Bluetooth-LE	2400 ~ 2483.5	0.02	0.20	5.93	768

Note: The distance R used in the MPE calculation is specified in the user manual.

Conclusion:

The device qualifies for RF exposure test exemption at 20cm distance.

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	ie End ——————————————————————