

Johnson Health Tech. Co., Ltd.

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
MAX-ONYX-C, XL-ONYX-C

REPORT NUMBER:
231000572SHA-003

ISSUE DATE:
October 11, 2024

DOCUMENT CONTROL NUMBER:
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TEST REPORT

Applicant : Johnson Health Tech. Co., Ltd.
No. 999, Sec. 2, Dongda Rd., Daya Dist., Taichung City 428, China.

Manufacturer : Same as applicant

Factory 1 : Same as applicant

Factory 2 : Johnson Industries (Shanghai) CO., LTD.
2217 hechen highway, JIADING DISTRICT, Shanghai, China

FCC ID : TN7ONYX01

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

FCC PART 1 SECTION 1.1310

PREPARED BY:



Project Engineer
Eric Li

REVIEWED BY:



Reviewer
Wakeyou Wang

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Revision History

Report No.	Version	Description	Issued Date
231000572SHA-003	Rev. 01	Initial issue of report	October 11, 2024

Measurement result summary

TEST ITEM	FCC REFERENCE	TEST RESULT	NOTE
RF Exposure	1.1310	Pass	-

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

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1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Fitness Equipment TV Console
Type/Model:	MAX-ONYX-C, XL-ONYX-C
Description of EUT:	The EUT is Fitness Equipment TV Console, there are two models, they are the same except model name, display size. We tested MAX-ONYX-C as representative and listed the worst results in this report.
Rating:	12Vdc, 3A
Category of EUT:	Class B
EUT type:	☒ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	July 17, 2024
Date of test:	July 18, 2024 to July 29, 2024

1.2 Technical Specification

Frequency Range:	111kHz – 205kHz
Modulation:	FSK
Antenna:	Coil antenna

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1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

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2 TEST SPECIFICATIONS

2.1 Standards or specification

FCC PART 1 SECTION 1.1310

KDB 680106 D01 RF Exposure Wireless Charging App v03

2.2 Mode of operation during the test

Within this test report, EUT was tested under all modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used. The worst data was listed in the report.

2.3 Test peripherals list

Item No.	Name	Brand and Model	Description
1	Wireless load	EESON	100%/50%/0% power level
2	Power Adapter	TC-33097	Power supply only

2.4 Record of climatic conditions

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)
RF Exposure	24	53	101

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2.5 Instrument list

Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Exposure Level Tester	Narda	ELT-400	EC 2928	2025-04-06
☒	Field sensor & Field meter	AR	FL17000	EC 5818-1	2025-05-17

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3 RF Exposure Assessment

Test result: Pass

3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

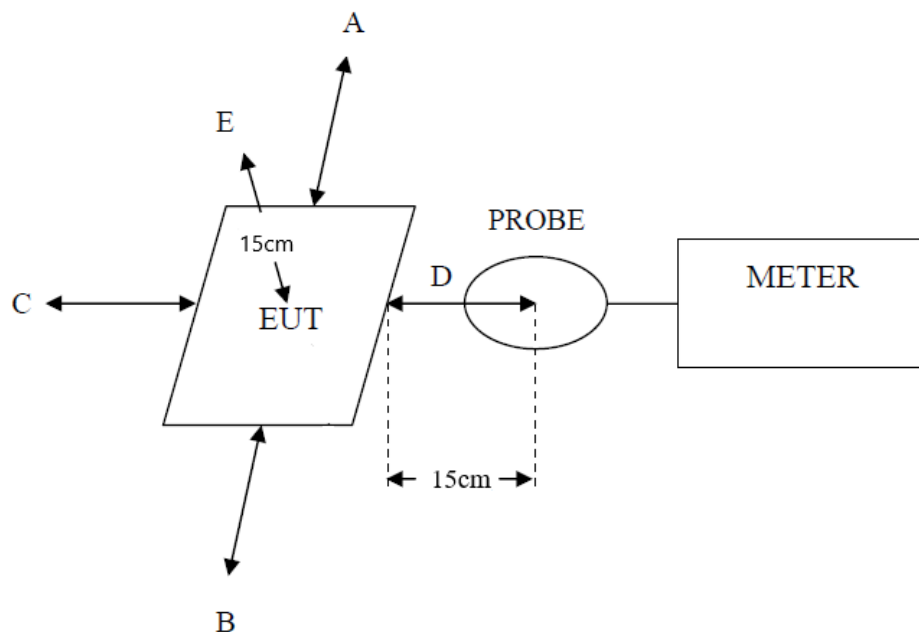
Limits for General Population/Uncontrolled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	30
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

Limits for Occupational/Controlled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	6
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

3.2 Assessment Configuration



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3.3 Assessment Results

Test result of Magnetic Field Strength:

Test Position	Test distance (cm)	Test result (A/m)	Limit (A/m)	Result (Pass/Fail)
A: Right	15	0.0073	1.63 *0.5	Pass
B: Left	15	0.0063	1.63 *0.5	Pass
C: Front	15	0.0056	1.63 *0.5	Pass
D: Back	15	0.0051	1.63 *0.5	Pass
E: Top	15	0.0057	1.63 *0.5	Pass

Test result of Electric Field Strength:

Test Position	Test distance (cm)	Test result (V/m)	Limit (V/m)	Result (Pass/Fail)
A: Right	15	0.81	614 *0.5	Pass
B: Left	15	0.73	614 *0.5	Pass
C: Front	15	0.62	614 *0.5	Pass
D: Back	15	0.54	614 *0.5	Pass
E: Top	15	0.67	614 *0.5	Pass

***** END *****