

RF Exposure Evaluation Report

Product : Monar Canvas Speaker
Trade mark : Monar
Model/Type reference : MCS-001, MCS-XXX
Serial Number : N/A
Report Number : EED32S80391306
FCC ID : 2BU6VMCS-001
Date of Issue : Jun. 02, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

Ningbo MoYi Artificial Intelligence Technology Co.,Ltd
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2 General Information

2.1 Client Information

Applicant:	Ningbo MoYi Artificial Intelligence Technology Co.,Ltd
Address of Applicant:	Rm 401-3, 4/F, Bldg D, 88 Wenhua Rd,Haishu Dist, Ningbo, Zhejiang, CN
Manufacturer:	Ningbo MoYi Artificial Intelligence Technology Co.,Ltd
Address of Manufacturer:	Rm 401-3, 4/F, Bldg D, 88 Wenhua Rd,Haishu Dist, Ningbo, Zhejiang, CN
Factory:	Dongguan lungcheong digital technology Co.,Ltd
Address of Factory:	No.408 Changhuang Rd, Changping Town,Dongguan, Guangdong, CN

2.2 General Description of EUT

Product Name:	Monar Canvas Speaker
Model No.:	MCS-001
Test Model No.:	MCS-001, MCS-XXX
Model difference:	The MCS-001 model includes two production variants differing only in the amplifier module version. All other components and design elements remain identical in specification, material, layout, and performance. The only permitted variation is the amplifier module, available in two versions: Amplifier Module Version A: AM001 Amplifier Module Version B: AM002 Both modules have been tested under identical conditions and meet all applicable clauses of the referenced standards. The unified model number MCS-001 remains valid for both variants. For serial Model No.: MCS-XXX, (XXX-can be any number between 001-999) This series model is identical to MCS-001 ,Only the enclosure colors, amplifier module and outer decoration accessories.
Trade Mark:	Monar

2.3 Product Specification subjective to this standard

Frequency Range:	BLE/BT: 2402MHz~2480MHz 2.4G Wi-Fi: IEEE 802.11b/g/n(HT20)/ax(HE20): 2412MHz to 2462MHz IEEE 802.11n(HT40)/ax(HE40): 2422MHz to 2452MHz 5G Wi-Fi: U-NII-1 & U-NII-2A: 5150-5350MHz U-NII-2C:5500-5700MHz U-NII-3:5745-5825MHz
Modulation Type:	BLE: GFSK BT: GFSK, $\pi/4$ DQPSK, 8DPSK 2.4G Wi-Fi: IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK, BPSK) IEEE for 802.11ax(HE20 and HE40) : OFDM (1024QAM, 256QAM, 64QAM, 16QAM,QPSK,BPSK) 5G Wi-Fi: IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)

	IEEE 802.11ac(VHT20/VHT40): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) IEEE 802.11ax(HE20/HE40): OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM,1024QAM)	
Test Power Grade:	Default	
Test Software of EUT:	Bluetooth Classic&Bluetooth LE: FCC_Tool_V3.01 2.4G Wi-Fi & 5G Wi-Fi: adb	
Antenna Type:	Bluetooth Classic&Bluetooth LE: Dipole Antenna 2.4G Wi-Fi & 5G Wi-Fi: Dipole Antenna NFC: Coil Antenna	
Antenna Gain:	Bluetooth Classic&Bluetooth LE: 1.59dBi 2.4G Wi-Fi : 1.57dBi 5G Wi-Fi: 3.88dBi NFC: 0dBi	
Power Supply:	USB Port:	DC 5.0V
	AC Port:	100-240V~,50/60Hz, 160W
Sample Received Date:	Mar. 23, 2026	
Sample tested Date:	Mar. 23, 2026 to May 09, 2026	

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

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

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

where

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

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation

For Stand alone:

Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@BLE	20	-0.23	1.59	-0.79	0.83	3060.00	0.0003	Pass
@BT	20	-0.23	1.59	-0.79	0.83	3060.00	0.0003	Pass
@2.4G Wi-Fi	20	12.97	1.57	12.39	17.34	3060.00	0.0057	Pass
@5G Wi-Fi	20	11.43	3.88	13.16	20.70	3060.00	0.0068	Pass

Freq. (MHz)	Estimation distance (cm)	Field strength of the fundamental signal(dBuV/m@3m)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@NFC	20	60.12	-35.11	-37.26	0.00019	1.00	0.0002	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 20cm;
- ⑥ The test data please refer to the report of EED32S80391301, EED32S80391302, EED32S80391303, EED32S80391304, EED32S80391305 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (BLE+2.4G Wi-Fi+5G Wi-Fi+NFC)=0.0003+0.0057+0.0068+0.0002=0.0130 < 1, it's deemed to fulfil the RF exposure requirement.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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*** End of Report ***