

FCC RF Exposure

Applicant : Sichuan Yingmu Technology Co., Ltd.
Address : No.2-3, 8th Floor, Building 2, No.31 Hangtian Road, Chenghua District, Chengdu City, Sichuan Province, P.R.China
Product Name : INMOX R2 Sports Smart Glasses
Brand Mark : INMO
Model : INMOX R2
Series model : N/A
FCC ID : 2BU7H-INMO-X-R2
Report Number : BLA-EMC-202603-A0103
Date of Receipt : Mar. 04, 2026
Date of Test : Mar. 04, 2026 to Mar. 10, 2026
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1093
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by: Mark Chen

Review by: Xavier



BlueAsia Technical Services(Shenzhen) Co.,Ltd.

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China



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Revise Record

Version No.	Date	Description
01	Mar. 27, 2026	Original

1 General information

1.1 General information

Applicant	Sichuan Yingmu Technology Co., Ltd.
Address	No.2-3, 8th Floor, Building 2, No.31 Hangtian Road, Chenghua District, Chengdu City, Sichuan Province, P.R.China
Manufacturer	Guangzhou Zhuohao Technology Co., Ltd.
Address	Room 301, 3rd Floor, No. 4, Qiling Street, Shiling Town, Huadu District, Guangzhou City
Factory	Guangzhou Zhuohao Technology Co., Ltd.
Address	No. 10, Xinhua Road, Shiling Town, Huadu District, Guangzhou City. Building A5, 6th Floor, Xianyin Little Bear Museum

1.2 General description of EUT

Product name	INMOX R2 Sports Smart Glasses
Model no.	INMOX R2
Operation Frequency:	BT/BLE:2402MHz-2480MHz
Modulation Type:	BLE: GFSK BT: GFSK, $\pi/4$ -DQPSK, 8DPSK
Number of Channels:	BLE:40 BT:79
Antenna Type:	Ceramic antenna
Product Type:	Portable
Antenna Gain:	1.32dBi (Provided by customer)
Power supply:	Battery DC 3.8V*2
Test Voltage:	DC 3.8V
Hardware Version	N/A
Software Version	N/A

2 RF Exposure Compliance Requirement

2.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.2 Limits

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

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 $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

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

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

2.3 Result

$$\text{EIRP} = \text{pt} \times \text{gt} = (\text{E} \times \text{d})^{2/30}$$

Where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,

d = measurement distance in meters (m)

$$\text{Spot} = (\text{E} \times \text{d})^{2/30} \times \text{gt}$$

Separation distance = 0.5m

Antenna Gain: 1.32dBi

L ear:

For BLE 2M(Worst) :

Max Output power = **-6.73dBm @ 2402MHz**

$$\text{EIRP} = -6.73\text{dBm} + 1.32\text{dBi} = -5.41\text{dBm}$$

$$\text{So, ERP} = -5.41 - 2.15 = -7.56\text{dBm} = 0.175\text{mW} < 2.788\text{ mW}$$

For BT Classic(8DPSK) :

Max Output power = **-5.241dBm @ 2402MHz**

$$\text{EIRP} = -5.241\text{dBm} + 1.32\text{dBi} = -3.921\text{dBm}$$

$$\text{So, ERP} = -3.921 - 2.15 = -6.071\text{dBm} = 0.247\text{mW} < 2.788\text{ mW}$$

Comply with RF exposure exemption limit.

R ear:

For BLE 1M(Worst) :

Max Output power = **-5.819dBm @ 2402MHz**

$$\text{EIRP} = -5.819\text{dBm} + 1.32\text{dBi} = -4.499\text{dBm}$$

$$\text{So, ERP} = -4.499 - 2.15 = -6.649\text{dBm} = 0.216\text{mW} < 2.788\text{ mW}$$

For BT Classic(8DPSK) :

Max Output power = **-4.376dBm @ 2402MHz**

$$\text{EIRP} = -4.376\text{dBm} + 1.32\text{dBi} = -3.056\text{dBm}$$

$$\text{So, ERP} = -3.056 - 2.15 = -5.206\text{dBm} = 0.302\text{mW} < 2.788\text{ mW}$$

Comply with RF exposure exemption limit.

----END OF REPORT----

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