

TEST REPORT

Product Name : TV hearMore
Brand Mark : MoerLab
Model No. : ABB01
FCC ID : 2A8MI-ABB01
Report Number : BLA-EMC-202308-A6204
Date of Sample Receipt : 2023/8/23
Date of Test : 2023/9/27 to 2023/12/13
Date of Issue : 2023/12/14
Test Standard : KDB447498D04 General RF Exposure
Guidance v01
Test Result : Pass

Prepared for:

Jiang Su Yisin Tech Co., Ltd
Rm. 103, Bldg. 1, No. 10, Wenzhou Rd., ETDZ, Shuyang County, Suqian,
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Prepared by:

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Date:

2023/12/14



REPORT REVISE RECORD

Version No.	Date	Description
00	2023/12/14	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

2 GENERAL INFORMATION

Applicant	Jiang Su Yisin Tech Co., Ltd
Address	Rm. 103, Bldg. 1, No. 10, Wenzhou Rd., ETDZ, Shuyang County, Suqian, Jiangsu, CN
Manufacturer	Jiang Su Yisin Tech Co., Ltd
Address	Rm. 103, Bldg. 1, No. 10, Wenzhou Rd., ETDZ, Shuyang County, Suqian, Jiangsu, CN
Factory	Jiang Su Yisin Tech Co., Ltd
Address	Rm. 103, Bldg. 1, No. 10, Wenzhou Rd., ETDZ, Shuyang County, Suqian, Jiangsu, CN
Product Name	TV hearMore
Test Model No.	ABB01

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	V3.2
Software Version	V3.6.2
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	BREDR:GFSK,pi/4DQPSK,8DPSK BLE:GFSK(Data Rate:1Mbps;2Mbps)
Channel Spacing:	BREDR:1MHz BLE:2MHz
Number of Channels:	BREDR:79 BLE:40
Antenna Type:	External Antenna
Antenna Gain:	2.33dBi(Provided by the customer)

4 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.

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5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 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.

5.2 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

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

Ant gain = 2.33dBi

BREDR:

Max Output power = -0.449dBm @EDR@ 2480MHz

ERP = -0.449dBm + 2.33dBi - 2.15 = -0.269dBm

So worse case: $10^{-0.0269} = 0.940\text{mW} < 2.7\text{ mW}$

Comply with RF exposure exemption limit.

BLE:

Max Output power = -0.696dBm @BLE 1M@ 2480MHz

ERP = -0.696dBm + 2.33dBi - 2.15 = -0.516dBm

So worse case: $10^{-0.0516} = 0.888\text{mW} < 2.7\text{ mW}$

Comply with RF exposure exemption limit.

----END OF REPORT----

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