TEST REPORT

Product Name	:	Bluetooth voice remote control
Brand Mark	:	N/A
Model No.	:	AN4806-0KG
Extension Model	:	RC-27
FCC ID	:	2AN9I-AN4806
Report Number	:	BLA-EMC-202307-A8003
Date of Sample Receipt	:	2023/7/24
Date of Test	:	2023/7/26 to 2023/8/2
Date of Issue	:	2023/8/3
Test Standard	:	47 CFR Part 15, Part1.1307 47 CFR Part 15, Part2.1093 KDB447498D04 General RF Exposure Guidance v01
Test Result	:	Pass

Prepared for:

Dongguan Anycon Intelligent Technology Co.,Ltd
No12, Limin Road, Jinxiaotang Industrial Park,Fenggang

Prepared by:

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Date: 2023/8/3

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

REPORT REVISE RECORD

Version No.	Date	Description
00	2023/8/3	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

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2 GENERAL INFORMATION

Applicant	Dongguan Anycon Intelligent Technology Co.,Ltd
Address	No12, Limin Road, Jinxiaotang Industrial Park,Fenggang
Manufacturer	Dongguan Anycon Intelligent Technology Co.,Ltd
Address	No12, Limin Road, Jinxiaotang Industrial Park,Fenggang
Factory	Dongguan Anycon Intelligent Technology Co.,Ltd
Address	No12, Limin Road, Jinxiaotang Industrial Park,Fenggang
Product Name	Bluetooth voice remote control
Test Model No.	AN4806-0KG
Extension Model	RC-27
Remark	Their circuit design, layout, components and internal wiring are the same, but the appearance and key screen printing are different.

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	V0.2
Software Version	V0.0.0

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	2 dBi(Provided by the customer)

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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

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

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

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

EIRP = pt×gt = (E×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, --- 10((dBuV/m)/20)/106
d = measurement distance in meters (m)---3m
Sopt = (E×d)2/30 × gt

Ant gain = 2 dBi
Max Output power =0.996dBm @ 2480MHz
ERP =0.996dBm+2dBi-2.15=0.836dBm
So

worse case：

10^0.0996=1.258mW < 2.79 mW
Comply with RF exposure exemption limit.

----END OF REPORT----

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