

RF Exposure

Applicant : KONKA GROUP CO., LTD.
15-24F, Konka R&D Building, No. 28 Keji South 12th
Address : Road, Science and Technology Park, Yuehai Subdistrict,
Nanshan District, Shenzhen , Guangdong, China
Product Name : remote control
Brand Mark : KONKA、RCA
Model : G017
Series model : N/A
FCC ID : 2AQX7G01700
Report Number : BLA-EMC-202510-A1402
Date of Receipt : Oct. 16, 2025
Date of Test : Oct. 16, 2025 to Oct. 24, 2025
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: *Hugh*Review by: *Xavier*Approved by: *Blue Zheng*

Issued Date: Nov. 07, 2025

BlueAsia of Technical Services(Shenzhen) Co., Ltd.Address: Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District,
Shenzhen, Guangdong Province, China

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Table of Contents

1 General information	4
1.1 General information	4
1.2 General description of EUT	4
2 Laboratory and accreditations	5
3 RF Exposure Compliance Requirement	6
3.1 Standard Requirement	6
3.2 Limits	6
3.3 Result	7

Revise Record

Version No.	Date	Description
01	Nov. 07, 2025	Original

1 General information

1.1 General information

Applicant	KONKA GROUP CO., LTD.
Address	15-24F, Konka R&D Building, No. 28 Keji South 12th Road, Science and Technology Park, Yuehai Subdistrict, Nanshan District, Shenzhen , Guangdong, China
Manufacturer	KONKA GROUP CO., LTD.
Address	15-24F, Konka R&D Building, No. 28 Keji South 12th Road, Science and Technology Park, Yuehai Subdistrict, Nanshan District, Shenzhen , Guangdong, China
Factory ¹	Dongguan Konka Electronic Co.,Ltd
Address	Konka Road, Fenggang Town Dongguan City Guangdong China Factory2AMTEC ELECTRONICS CORPORATION
Factory ²	AMTEC ELECTRONICS CORPORATION
Address	Plot A, Number 10A, Street 1, Hiep Phuoc Industrial Park, Hiep Phuoc Commune, Ho Chi Minh City

1.2 General description of EUT

Product name	remote control
Model no.	G017
Power supply or adapter information	DC3V
Hardware version	N/A
Software version	N/A

For BLE

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Rate data:	1Mbps; 2Mbps
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PCB antenna
Antenna Gain:	0.82dBi(Provided by customer)

2 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

3 RF Exposure Compliance Requirement

3.1 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.

3.2 Limits

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

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

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

3.3 Result

Calculated Result and Limit (WORSE CASE IS AS BELOW)

Mode	Frequency (MHz)	Max Output power(dBm)	Ant gain (dBi)	Evaluation EIRP(dBm)	Evaluation ERP(mW)	Limit of Pth(mW)	Result
BLE 2M	2402	-1.319	0.82	-0.499	0.543	2.790	Pass

$EIRP = \text{Max Output power} + \text{Ant gain}$

$ERP = EIRP - 2.15$

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)

Spot = $(EXd)^{2/30} \times gt$

Separation distance= 0.5cm

Comply with RF exposure exemption limit.

----END OF REPORT----

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