RF EXPOSURE EVALUATION REPORT

FCC ID	:	2AEUPBHAKE001
Contains FCC ID	:	XMR201910BG95M3
Equipment	:	Ring WallCall
Brand Name	:	ring
Model Name	:	8KCEA2 8KCEAB
Applicant	:	Ring LLC 12515 Cerise Ave, Hawthorne, CA 90250, USA
Manufacturer	:	Ring LLC 12515 Cerise Ave, Hawthorne, CA 90250, USA
Standard	:	47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full

Approved by: Cona Huang / Deputy Manager

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History of this test report

Report No.	Version	Description	Issued Date
FA432611	Rev. 01	Initial issue of report	Jun. 18, 2024

1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	Ring WallCall
Brand Name	ring
Model Name	8KCEA2 8KCEAB
FCC ID	2AEUPBHAKE001
Contains FCC ID	XMR201910BG95M3
Wireless Technology and Frequency Range	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 85: 698 MHz ~716 MHz NFC : 13.56 MHz
Mode	LTE: QPSK, 16QAM NFC: ASK
HW Version	DVT

Reviewed by: Jason Wang

Report Producer: Daisy Peng

2. Maximum RF average output power among production units

Mode		Maximum Average power(dBm)
LTE	Band 2	22
	Band 4	22
	Band 5	22
	Band 12	22
	Band 13	22
	Band 25	22
	Band 26	22
	Band 66	22
	Band 85	22

Mode	EIRP (mW)
NFC	0.0000030

3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f2)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f2)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:
S = Power Density
P = Output Power at Antenna Terminals
G = Gain of Transmit Antenna (linear gain)
R = Distance from Transmitting Antenna

4. Radio Frequency Radiation Exposure Evaluation

4.1. Standalone Power Density Calculation

Band	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 20cm (mW/cm^2)	Limit (mW/cm^2)	Power Density / Limit
LTE Band 2	2.70	22.00	24.7	0.30	295.12	0.059	1.000	0.059
LTE Band 4	1.00	22.00	23.0	0.20	199.53	0.040	1.000	0.040
LTE Band 5	0.20	22.00	22.2	0.17	165.96	0.033	0.549	0.060
LTE Band 12	1.20	22.00	23.2	0.21	208.93	0.042	0.466	0.089
LTE Band 13	0.40	22.00	22.4	0.17	173.78	0.035	0.518	0.067
LTE Band 25	2.70	22.00	24.7	0.30	295.12	0.059	1.000	0.059
LTE Band 26	0.20	22.00	22.2	0.17	165.96	0.033	0.543	0.061
LTE Band 66	1.00	22.00	23.0	0.20	199.53	0.040	1.000	0.040
LTE Band 85	1.20	22.00	23.2	0.21	208.93	0.042	0.465	0.089
NFC			0.0000030	0.00100	1.00000	0.00020	0.979	0.00020

Note:

1. The NFC EIRP is convert by 3 meter field strength according to NFC RF Report

4.2. Collocated Power Density Calculation

WWAN Power Density / Limit	NFC Power Density / Limit	∑(Power Density / Limit) of WWAN+NFC
0.089	0.00020	0.0892

Note:

1. ∑(Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for WWAN + NFC.
2. Considering the WWAN module collocation with the NFC transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 2 collocated transmitters is compliant

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.