

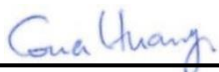
RF EXPOSURE EVALUATION REPORT

FCC ID : 2AEUP-5DYFA2
Equipment : Video Doorbell
Brand Name : ring 
Model Name : 5DFYA2
Applicant : 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: 3786) and the FCC designation No. TW3786 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
FA550659-01	Rev. 01	Initial issue of report	Sep. 23, 2025

1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
Equipment Name	Video Doorbell
Brand Name	ring 
Model Name	5DFYA2
FCC ID	2AEUP-5DYFA2
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5GHz Band: 5150 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5850 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz Lora: 902 MHz ~ 928 MHz Radar 24GHz: 24.05 GHz ~ 24.25 GHz
Mode	WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/HE20 Bluetooth: LE Lora: 50Kbps, 125Kbps, 150Kbps, 250Kbps, 500Kbps Radar 24GHz: FMCW

Reviewed by: Jason Wang

Report Producer: Carlie Tsai

2. Maximum RF average output power among production units

Band	Maximum Power (dBm)	Gain (dBi)
Bluetooth	6.27	3
2.4GHz WLAN	20.45	0.5
5.2GHz WLAN	19.75	3.1
5.3GHz WLAN	19.04	4.7
5.5GHz WLAN	19.81	3.5
5.8GHz WLAN	19.35	2.7
LoRa	24.8	0.5
24G Radar	2	2

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/f ²)	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/f ²)	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 PG (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
2.4GHz WLAN	0.50	20.45	20.95	124.45	0.025	1.000	0.025
5.2GHz WLAN	3.10	19.75	22.85	192.75	0.038	1.000	0.038
5.3GHz WLAN	4.70	19.04	23.74	236.59	0.047	1.000	0.047
5.5GHz WLAN	3.50	19.81	23.31	214.29	0.043	1.000	0.043
5.8GHz WLAN	2.70	19.35	22.05	160.32	0.032	1.000	0.032
Bluetooth	3.00	6.27	9.27	8.45	0.002	1.000	0.002
Lora	0.50	24.80	25.30	338.84	0.067	0.602	0.112
Radar 24GHz	2.00	2.00	4.00	2.51	0.000	1.000	0.000

4.2. Collocated Power Density Calculation

WLAN Power Density / Limit	Bluetooth Power Density / Limit	Lora Power Density / Limit	Radar 24GHz Power Density / Limit	Σ (Power Density / Limit)
0.047	0.002	0.112	0.000	0.161

Note:

1. Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)]
2. Based on the EIRP performance listed in the table above, the aggregated (power density/limit) is smaller than 1, and MPE of the 4 collocated transmitters is compliant.

Conclusion:

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