Maximum Permissive Exposure

FCC ID: Y9E-IAD-18010H
EUT Name: Room Booking Panel
M/N: IAD-18010H

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (Minutes)
(A) Limits for Occupational / Control Exposures (f = frequency)				
30-300	61.4	0.163	1.0	6
300-1500	---	---	f/300	6
1500-100,000	---	---	5.0	6
(B) Limits for General Population / Uncontrolled Exposures (f = frequency)				
30-300	27.5	0.073	0.2	30
300-1500	---	---	f/1500	30
1500-100,000	---	---	1.0	30

2. MPE Calculation
   We declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

   RF Exposure Calculations: $S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

   Note: π=3.1416 in this report.

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2.1. Estimation Result

EUT: Room Booking Panel		
M/N: IAD-18010H		
Test date:2025-06-30	Pressure: 101.8±1.0 kpa	Humidity: 52.1±3.0%
Tested by: Carl	Test site: RF site	Temperature:21.6±0.6 ℃

WiFi 2.4G

Test Mode	Test Distance (cm)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE	Result
11b	20	11.49	14.09	2.3	1.70	0.0048	PASS
11g		12.13	16.33	2.3	1.70	0.0055	PASS
11n HT20		12.70	18.62	2.3	1.70	0.0063	PASS
Conclusion: Pass							

WiFi 5G Band1

Test Mode	Test Distance (cm)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE	Result
11a	20	10.37	10.89	3.5	2.24	0.0049	PASS
11n20		10.00	10.00	3.5	2.24	0.0045	PASS
11n40		8.74	7.48	3.5	2.24	0.0033	PASS
11ac20		9.99	9.98	3.5	2.24	0.0044	PASS
11ac40		8.75	7.50	3.5	2.24	0.0033	PASS
11ac80		7.92	6.19	3.5	2.24	0.0028	PASS
Conclusion: Pass							

WiFi 5G Band3

Test Mode	Test Distance (cm)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE	Result
11a	20	9.46	8.83	5.1	3.24	0.0057	PASS
11n20		8.94	7.83	5.1	3.24	0.0050	PASS
11n40		9.01	7.96	5.1	3.24	0.0051	PASS
11ac20		8.94	7.83	5.1	3.24	0.0050	PASS
11ac40		9.02	7.98	5.1	3.24	0.0051	PASS
11ac80		8.34	6.82	5.1	3.24	0.0044	PASS
Conclusion: Pass							