

## EXHIBIT C - RF EXPOSURE EVALUATION

### MAXIMUM PERMISSIBLE EXPOSURE (MPE)

#### Applicable Standard

FCC §15.255(g) & §1.1310 & §2.1091

Regardless of the power density levels permitted under this subpart, devices operating under the provisions of this subpart are subject to the radiofrequency radiation exposure requirements specified in §§ 1.1307(b), 2.1091, and 2.1093 of this chapter, as appropriate. Applications for equipment authorization of devices operating under this section must contain a statement confirming compliance with these requirements for both fundamental emissions and unwanted emissions. Technical information showing the basis for this statement must be submitted to the Commission upon request.

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See §1.1307(b)(1) of this chapter.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; \* = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

#### Procedure

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$  = power density (in appropriate units, e.g. mW/cm<sup>2</sup>);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

**Calculated Result**

For Bluetooth and WiFi:

Operation Modes	Frequency (MHz)	Antenna Gain		Conducted output power including Tune-up Tolerance <sup>▲</sup>		Evaluation Distance (cm)	Power Density (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )
		(dBi)	(numeric)	(dBm)	(mW)			
BT	2402-2480	3.5	2.24	6.5	4.47	20.00	0.002	1.0
BLE	2402-2480	3.5	2.24	6.5	4.47	20.00	0.002	1.0
2.4G Wifi	2412-2462	3.5	2.24	15.4	34.67	20.00	0.015	1.0
5G WiFi	5150-5250	2.5	1.78	16.9	48.98	20.00	0.017	1.0
	5250-5350	2.5	1.78	17.3	53.70	20.00	0.019	1.0
	5470-5725	2.5	1.78	18.2	66.07	20.00	0.023	1.0
	5725-5850	2.5	1.78	17.8	60.26	20.00	0.021	1.0

Note:

1. The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.
2. The device contains a certified Bluetooth&WLAN module, FCC ID: 2ABCB-RPIRM0, certified on 11/03/2020.

For Radar:

Operation Modes	Frequency (GHz)	EIRP including Tune-up Tolerance <sup>▲</sup>		Evaluation Distance (cm)	Power Density (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )
		(dBm)	(mW)			
Radar	58-61.49	0.79	1.20	20.00	0.0002	1.0

Note: The EIRP Tune-up power was declared by the manufacturer.

**Simultaneous transmission:**

Bluetooth and WiFi can't transmit simultaneously,  
but Bluetooth or WiFi can transmit simultaneously with Radar:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

$$S_{WiFi}/S_{limit-WiFi} + S_{Radar}/S_{limit-Radar}$$

$$= 0.023/1.0 + 0.0002/1.0$$

$$= 0.023$$

$$< 1.0$$

**Result:** The device meet FCC MPE at 20 cm distance.**\*\*\*\*\* END OF REPORT \*\*\*\*\***