

RF Exposure Evaluation according to KDB 447498 D01 v06

Report identification number: 1-4574/22-03-09_MPE_FCC

Certification numbers and labeling requirements	
Contains FCC ID	W4G-RMI6, QOQ-BGM22OS2

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1. MPE at given distance (KDB 447498 D01 General RF Exposure Guidance v06)

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

where: S = Power density
P = Power input to the antenna
G = Antenna gain
R = Distance to the center of radiation of the antenna
PG = Output Power including antenna gain

The table below is excerpted from Table 1B of 47 CFR 1.1310 titled "Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure"

Frequency Range (MHz)	Power Density (mW/cm ²)	Averaging Time (minutes)
300 -1500	f/1500	30
1500 - 100000	1.0	30

where f = Frequency (MHz)

2. EUT technologies

Declared minimum safety distance: **20 cm**

SRD Technology	Frequency [MHz]		Reference #	Output Power [dBm]			Power Density [mW/cm ²]		Share of Limit %
	f _{Min}	f _{Max}		P _{ERP}	P _{EIRP}	P _{RF Exp}	S _{Result}	S _{Limit}	
Bluetooth LE	2402	2480	A	N/A	10.0	10.0	0.00	1.00	0.20%
Proprietary 2.4 GHz	2412	2462	B	N/A	18.0	18.0	0.01	1.00	1.26%

Referenced Documents:

#	Results from:
A	max. declared 10.0dBm
B	max. declared 18.0dBm

3. Conclusion

This prediction demonstrates the following:

The power density levels for FCC at a distance of 20 cm are below the maximum levels allowed by regulations.

Conclusion: RF exposure evaluation is not required.