

BNetzA-CAB-02/21-102



RF Exposure Evaluation according to KDB 447498 D01 v06

Report identification number: 1-6531/23-01-04_MPE_FCC

Certification numbers and labeling requirements		
FCC ID	LCGQWX4X	

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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/cm²]		Share of Limit	
reciniology	f _{Min}	f _{Max}	#	P_{ERP}	P_{EIRP}	P_{RFExp}	S _{Result}	S _{Limit}	%
WLAN	2412	2462	٨	N/A	18.7	18.7	0.01	1.00	1.47%
2.4 GHz	2412	2 2402	A	N/A	10.7	10.7	0.01	1.00	<u>1.41%</u>

Referenced Documents:

#	Results from:
Α	Test Report 1-6531/23-01-02 page 22+23

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.