







# RF Exposure Evaluation according to KDB 447498 D01 v06

Report identification number: 1-3182/21-01-09\_MPE\_FCC

Certification numbers and	d labeling requirements
FCC ID	UN6-R2D2

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Document authorised:		
Michael Dorongovski	Marco Scigliano	
Lab Manager Radio Labs	Testing Manager	



## 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 <sup>2</sup> )	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

Technology	Frequency [MHz]		Reference	Output Power [dBm]		Power Density [mW/cm²]		Share of Limit	
	f <sub>Min</sub>	f <sub>Max</sub>	#	$P_{ERP}$	$P_{EIRP}$	P <sub>RF Exp</sub>	S <sub>Result</sub>	S <sub>Limit</sub>	%
Radar 77-81 GHz	77000	81000	А	N/A	15.1	15.1	0.01	1.00	0.65%

#### Referenced Documents:

Noticial de							
#	Results from:						
Α	Test Report 1-3182/21-01-08, p. 21						

#### 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.