

## RF Exposure Evaluation according to KDB 447498 D01 v06

Report identification number: 1-3876/22-06-03\_MPE\_FCC

Certification numbers and labeling requirements	
FCC ID	IREIURF191

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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 <sup>2</sup> )	Averaging Time (minutes)
300 -1500	f/1500	30
1500 - 100000	1.0	30

where f = Frequency (MHz)

Declared minimum safety distance: **20cm**

## 2. EUT technologies

SRD Technology	Frequency [MHz]		Reference #	Output Power [dBm]			Power Density [mW/cm <sup>2</sup> ]		Share of Limit
	f <sub>Min</sub>	f <sub>Max</sub>		P <sub>ERP</sub>	P <sub>EIRP</sub>	P <sub>RF Exp</sub>	S <sub>Result</sub>	S <sub>Limit</sub>	%
FHSS/DTS 915 MHz	902	928	A	N/A	19.4	<b>19.4</b>	<b>0.02</b>	<b>0.60</b>	<b>2.85%</b>

Note: P<sub>EIRP</sub> = P<sub>Cond</sub> + Antenna Gain = 16.7 dBm + 2.65 dBi = 19.35 dBm

Referenced Documents:

#	Results from:
A	Test Report 1-3876/22-06-02, pages 21 & 32

## 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.