







# RF Exposure Evaluation according to KDB 447498 D01 v06

Report identification number: 1-4299/22-02-06\_MPE\_FCC

Certification numbers and labeling requirements			
FCC ID	2ANX3-ERS02		

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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/cm²)	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	Frequ [MI	•	Reference	Output Power [dBm]		Power Density [mW/cm²]		Share of Limit	
	$f_{Min}$	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>	%
LoRa	902	915	А	N/A	17.0	17.0	0.010	0.601	1.66%

#### Referenced Documents:

	7.100d 2 00d.110.110.
#	Results from:
Α	Customer declared

### 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.