







RF Exposure Evaluation according to KDB 447498 D01 v06

Report identification number: 1-3180/21-01-09-A_MPE_FCC

Certification numbers and labeling requirements				
FCC ID	UN6-R1D2			

This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

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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: 20cm

Referenced Documents:

#	Results from:
Α	Test Report 1-3180/22-01-08-A

SRD Technology	Frequency Reference		Output Power [dBm]		Power Density [mW/cm²]		Share of Limit		
	f_{Min}	f_{Max}	#	P _{ERP}	P _{EIRP}	P _{RF Exp}	S _{Result}	S _{Limit}	%
FMCW Radar	77000	81000	Α	N/A	14.6	14.6	0.02	1.00	0.57%

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.