

BNetzA-CAB-02/21-102



RF Exposure Evaluation according to KDB 447498 D01 v06

Report identification number: 1-5071_22-02-02_TR1-R01-D1_MPE_FCC

Certification numbers and labeling requirements		
FCC ID	2AC3T-B36T40HDRB	

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.

Document authorised:

p.o.

Alexander Hnatovskiy Lab Manager Radio Labs

Eric Tuettmann **Testing Manager** Radio Labs



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		Reference	Output Power [dBm]			Power Density [mW/cm²]		Share of Limit
тесппоюду	f _{Min}	f _{Max}	#	P_{ERP}	P _{EIRP}	P _{RF Exp}	S _{Result}	S _{Limit}	%
Bluetooth LE	2402	2480	А	N/A	0.0	0.0	0.00	1.00	0.02%
WLAN 2.4 GHz	2412	2462	А	N/A	18.0	18.0	0.01	1.00	<u>1.26%</u>
Radar 24 GHz	24000	25000	А	N/A	0.0	0.0	0.00	1.00	0.02%

Notes:

- Max rated conducted output power taken from customer's tune up info

Referenced Documents:

#	Results from:
Α	Test Report 1-0981/20-01-08



3. <u>Collocation overview:</u>

Technology	Share of Limit [%]
Bluetooth LE	0.02%
Wlan 2.4 GHz	1.26%
Radar 24 GHz	0.02%
Sum	1.30%

4. 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.