February 14, 2025

TUV SUD America CB
10 Centennial Drive FL2
Peabody, MA 01960

Attention: Director of Certification

RE: Analysis of RF Exposure for Mobile and Portable Device per KDB 447498 D01 General RF Exposure Guidance v06

FCC ID: ROJ-8065A

1. Limits

Limits for General Population/Uncontrolled Exposure (Title 47 Subpart J §2.1091 and KDB 447498 D01 referring to limits under §1.1310)

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Electric Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time (minutes)
0.3 - 1.34	614	1.63	*(100)	30
1.34 - 30	824/f	2.19/f	*($180/f^2$)	30
30 - 300	27.5	0.073	0.2	30
300 - 1500	-	-	f/1500	30
1500 - 100,000	-	-	1.0	30

f = frequency in MHz
**Plane-wave equivalent power density*

2. *Mobile MPE Calculation using a 20 cm separation distance:*

Using Power Density formula:

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to isotropic
R = distance to the center of radiation of the antenna

Max Output Power Channel (Low Channel) at 20 cm Separation Distance:

Maximum peak output power at antenna input terminal:	**35.23**	(dBm)
Maximum peak output power at antenna input terminal:	**3334.26**	(mW)
Antenna gain(max):	**0.6**	(dBi)
Maximum antenna gain:	**1.148**	(numeric)
Prediction distance:	**20**	(cm)
Source Based Time Average Duty Cycle:	**100**	(%)
Prediction frequency:	**1626.5**	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	**1.000**	(mW/cm^2)
Power density at prediction frequency:	**0.76161**	(mW/cm^2)
Power density at prediction frequency:	**7.616**	(W/m^2)
Margin of Compliance:	**-1.18**	(dB)

Sincerely,

Name: Miguel Angel Rabago Garcia
Authorized Signatory
Title: Wireless Test Engineer