



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-8067A

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 21.13cm 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 21.13 cm Separation Distance:

Maximum peak output power at antenna input terminal:	35.69	(dBm)
Maximum peak output power at antenna input terminal:	3706.81	(mW)
Antenna gain(max):	1.8	(dBi)
Maximum antenna gain:	1.514	(numeric)
Prediction distance:	21.13	(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:	0.99998	(mW/cm ²)
Power density at prediction frequency:	10.000	(W/m ²)
Margin of Compliance:	0.00	(dB)

Sincerely,

A handwritten signature in blue ink, appearing to read 'Miguel Angel Rabago Garcia'.

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