FCC §15.407(f) & §2.1093 - RF EXPOSURE

Applicable Standard

According to FCC §15.407 and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Report No.: R1DG120114001-00C

According to KDB 447498 D01 Mobile Portable RF Exposure v03r03, no SAR required if power is lower than the flowing threshold:

When routine evaluation is required for SAR and the output power is \leq 60/f(GHz) mW, the test reduction and test exclusion procedures given herein, or in KDB 616217 or KDB 648474, are applicable.

A device may be used in portable exposure conditions with no restrictions on host platforms when either the source-based time-averaged output power is $\leq 60/f(GHz)$ mW or all measured 1-g SAR are < 0.4 W/kg.10 When SAR evaluation is required, the most conservative exposure conditions for all expected operating configurations must be tested.

Measurement Result:

Average output power at antenna port: 6.66 dBm

Antenna Gain: 1.5 dBi

EIRP = 6.66 + 1.5 = 8.16 dBm = 6.55 mW

SAR exclusion threshold: $60/f_{GHz} = 60/5.18 = 11.58 \text{ mW}$

The SAR measurement is not necessary.

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