US Tech Test Report: FCC ID: IC: Test Report Number:

Issue Date:

FCC Part 15 Certification/ RSS 210 KE3-3003679 2721A-3003679 20-0276 October 30, 2020 Radio Systems Corporation RAC00-17202

Customer: Model:

Maximum Public Exposure to RF (MPE), CFR 1.1310 (e)

General SAR test exclusion per KDB 447498 D01 V06 section 4.3

Test exclusion conditions are based on source-based time averaged maximum conducted output power of the RF channel, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel mW) / (min. test separation distance, mm)] * [($\sqrt{f_{GHz}}$)]

Where the result must be ≤ 3.0 for 1-g SAR and ≤ 7.0 for 10-g SAR

EUT source based time averaged (SBTA) = (output power + antenna gain * duty cycle)

SBTA= +16.0 dBm (worst case output pwr) + -19.0 dBm (antenna gain) + 1.0 (worst case Duty Cycle) = -3.0 dBm = 0.5 mW

0.5 mW/50 mm * ($\sqrt{0.15182}$ GHz) = 0.004 << 3.0 for 1-g SAR and ≤ 7.0 for 10-g SAR