



APPENDIX L
: RF EXPOSURE EVALUATION



RF Exposure Evaluation

1.1 Applicable Standard

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB 447498 DS01 Ver 05, no Hand SAR required if power is lower than the following threshold:
Device is hand-operated device; its antenna will be less than 5cm, but more than 5 cm from human body.
So Body SAR is not required.

HCM-R1

Min. test separation distance : 0 mm
Max. power with turn-up tolerance : 9.34 dBm
Antenna gain : 0.67 dBi
Measured power (EIRP) : 9.34 dBm (8.59 mW)

Step 1)

SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f \text{ (GHz)}}] \leq 3.0$ for 1-g SAR

Result value

$2.70 \leq 3$, for 1 g SAR

Conclusion: No SAR is required.

No Simultaneous transmission occurs.