

FCC RF Exposure

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EUT Description: Electric skateboard

Model No.: Cavalry

FCC ID: 2BC38-CAVALRY

Equipment type: Portable devices

According to KDB 447498 D01 General RF Exposure Guidance v06 and part 2.1093, Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numeric simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance mm})] \cdot [f(\text{GHz})] < 3.0$ for 1-g SAR, and < 7.5 for 10-g extremity SAR, where $f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

$EIRP = E_{\text{Meas}} + 20 \log(d_{\text{meas}}) - 104.7$

EIRP is the equivalent isotropically radiated power,

E_{Meas} in dBm is the field strength of the emission at the measurement distance, in dB u V/m

d_{meas} is the measurement distance, in m

2.4G:

Field strength(dBu V/m)	EIRP(dBm)	Max tune-up(mW)	Frequency(MHz)	Min. distance(mm)	Calc. thresholds	limit
93.11	-2.0476	0.6241	2405.5	5	0.1936	3.0
93.18	-1.9776	0.6342	2442.5	5	0.1982	3.0
90.67	-4.4876	0.3558	2475.0	5	0.1119	3.0

BT:

	Output power (dBm/ mW)	Result calculation	SAR Exclusion threshold	SAR Test exclusion
2402MHz	4.277/2.677	0.830	3.0	Yes
2441MHz	5.342/3.421	1.069	3.0	Yes
2480MHz	5.455/3.512	1.106	3.0	Yes

Conclusion: No SAR is required

Note: BT and 2.4G cannot be emitted simultaneously.