



FCC RF Exposure

EUT Description: LoRa temperature sensor

Model No.: LORA SPY V4

Series Model: N/A

FCC ID: W4512276-2

Equipment type: portable device

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 numerical 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:

$f(\text{GHz})$ is the RF channel transmit frequency in GHz. The result is rounded to one decimal place for comparison.

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

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

Limits for Maximum Permissible Exposure (MPE)

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

EIRP is the equivalent isotropically radiated power,

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

d_{Meas} is the measurement distance, in m

Field strength (dB $\mu\text{V/m}$)	EIRP (dBm)	Max tune-up (mW)	Frequency (MHz)	Min. distance (mm)	Calc. thresholds	limit
76.81	-18.39	0.0145	915	5.00	0.0028	3

Conclusion: No SAR is required