

Product Description: Copter of Vega Drone
Model No.: 6001435
FCC ID: 2ACS618RX

Frequency range: 2402MHz – 2475MHz
Antenna gain: -20dBi
Maximum EIRP Output Power: 0.000333W

Frequency range: 2412MHz – 2462MHz
Antenna gain: 4.95dBi
Maximum EIRP Output Power: 0.001545W

Following KDB 447498 D01, clause 4.3.1:

4.3.1 Exemption from Routine Evaluation Limits – RF Exposure Evaluation

RF Exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is less than 20 cm, except when the device operates as follows

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

$$0.333/(5) \cdot \sqrt{2.475} = 0.105 < 3$$
$$1.545/(5) \cdot \sqrt{2.462} = 0.485 < 3$$

Thus for <20cm portable usage, the SAR exclusion condition is fulfilled and SAR evaluation is not required for a separation distance of 5mm or more.