

FCC SAR Exemption per KDB 447498

KDB 447498 D01 General RF Exposure Guidance v06 (October 23, 2015)

1. Declaration of RF exposure compliance for exemption from routine evaluation limits

FCC ID:	CVO50001
Model number:	Pod V2 Reference
Manufacturer:	Zimmer CAS
4.3.1. Standalone SAR test exclusion considerations:	<p>During normal operation, user extremities can come within 20 cm of the internal antenna and therefore product is considered as "Portable".</p> <p>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:</p> $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [V_f(\text{GHz})]$ <p>≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where</p> <ul style="list-style-type: none"> - $f(\text{GHz})$ 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 - The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below <p>The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.</p> <p>As per customer, the separation distance between the user and the antenna is 3 cm. Measured conducted output power: 0.1 dBm with 0.5 dBi antenna gain at 2405 MHz Calculation of e.i.r.p. [dBm] = Output power [dBm] + Antenna gain [dBi] = 0.6 dBm e.i.r.p. e.i.r.p. [mW] = $10^{(0.6/10)} = 10^{0.06} = 1.148$ mW As per SAR evaluation, exemption limit 57 mW Margin for compliance: 55.9 mW</p> <p>The calculation is below the threshold, therefore the product exempt from the SAR test requirements</p>

2. Attestation

ATTESTATION: I attest that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned departmental standard(s), and that the radio equipment identified in this application has been subject to all applicable test conditions specified in the departmental standards and all of the requirements of the standards have been met.

Signature:	
Date:	March 10, 2021
Name:	Jenny Gibbs / project manager