

## INTERTEK TESTING SERVICES

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According to the guidelines of FCC's OET KDB 447498 D01, "Mobile and Portable Device - RF Exposure Procedures and Equipment Authorization Policies", the body SAR evaluation for hand-held and hand-operated or wrist, feet and ankle worn devices that operate closer than 5 cm to the body is exempted if the output power is not greater than  $300 \times [f(\text{GHz})]^{-0.5} \text{ mW}$ .

1. Shaker unit of tested model of VL4834PER1 is a wrist worn device, and the operation frequency range is 1.921536 to 1.928448 GHz.

Output power threshold  
=  $300 \times [f(\text{GHz})]^{-0.5} \text{ mW}$   
=  $300 \times (1.924992)^{-0.5} \text{ mW}$   
= 216.225 mW

2. The maximum field strength measured (FS) of shaker unit was 111.0 dB $\mu$ V/m. The distance (D) between the antenna and the equipment under test (EUT) was 3 meters. And the maximum source-based time-averaging duty factor is 4.17%.

The radiated power  
=  $(\text{FS} \times \text{D})^2 / 30$   
= 37.77 mW

The radiated (EIRP) source-based time-averaging output power  
=  $(37.77 \times 0.042) \text{ mW}$   
= 1.57 mW

3. The conducted peak transmit power measured of shaker unit was 18.34 dBm. And the maximum source-based time-averaging duty factor is 4.17%.

The conducted power  
= 68.23 mW

The conducted source-based time-averaging output power  
=  $(68.23 \times 0.042) \text{ mW}$   
= 2.87 mW

The maximum output power (higher value of conducted or radiated (EIRP) source-based time-averaging output power) is 2.87 mW and is not greater than the above output power threshold 216.225 mW, therefore the body SAR evaluation is exempted.