



Cellular Phone Sleeve Accessory Guidance

TCB Workshop
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Laboratory Division
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Overview

- Cellular phone sleeves have traditionally required independent inquiries depending upon usage & technology. FCC OET Lab is working to consolidate guidance pertaining to common sleeve types to streamline this process.
 - Bluetooth based sleeves
 - Wireless power transfer sleeves
 - Push-to-Talk sleeves
 - Mobile hotspot sleeves
 - Passive sleeves
 - Sleeves which disable phone capabilities
 - RFID reader sleeves
 - Alternative configurations
- Sleeve guidance is required due to the interaction of the sleeve's electrical & mechanical characteristics with the host device's radiative properties.
 - Potential for increased SAR due to additional transmitters
 - Alteration in mode of usage (i.e. from side of head to front)
 - Impact on client phone's SAR pattern
 - Potential to void the client phone's FCC certification



General Guidance

- Common guidance across historical sleeve inquiries has been tabulated and will be used as a foundation for sleeve testing.
- This guidance should be applied to all forthcoming sleeve devices.
- Goal is to ensure exposure compliance under all possible modes of sleeve and host phone interaction.
 - Proprietary test codes and software required for host device testing may be unavailable to third-party manufacturers
 - Such restrictions may not enable third-party accessories to be tested with intended hosts to determine compliance
 - Hosts that can be fully tested with basestation simulators for 3G may also require ad hoc Wi-Fi test configurations, which should be confirmed through KDB inquiries to avoid issues
- General guidance will be supplemented with guidance specific to sleeve design and usage.
- A Cellular Phone Sleeve KDB publication is currently under internal review.



Specific Guidance by Sleeve Type

- Common sleeve types, after applying the general guidance, may then apply existing KDB guidance pertinent to the sleeve's specifications and potential test reduction.
 - Single Transmitter Bluetooth Based Sleeves
 - KDB 648474 D04
 - Section 4.3 of KDB 447498 D01
 - Wireless Power Transfer (WPT) Sleeves
 - KDB 680106 D01
 - WPT battery covers are not considered sleeves and are governed under KDB 648474 D03
 - Push-To-Talk Sleeves
 - Section 6.1 of KDB 447498 D01
 - 13.56 MHz RFID Reader Sleeves
 - Section 4.3 of KDB 447498 D01



Specific Guidance by Sleeve Type

● Common Guidance Continued

– Mobile Hotspot Sleeves

- KDB 941225 D06
- Section 4 of KDB 447498 D01

– Sleeves without Onboard Transmitters

- Do not directly fall under the jurisdiction of the FCC
- Are prohibited from nullifying host's certification

– Sleeves Disabling Host's Onboard Transmitters

- Single frequency transmitting sleeves do not require simultaneous transmission testing

● Alternative Configurations

- Dissimilar sleeve types should seek additional KDB guidance