

## **HAC Updates**

## Laboratory Division Office of Engineering and Technology

Justin Rison

Note: The views expressed in this presentation are those of the authors and may not necessarily represent the views of the Federal Communications Commission.



#### **Overview**

• Handset Configuration for HAC testing

• Interim guidance updates

WAIVER PAG Reminders

Labeling requirements



## **Handset Configuration**

#### TAS or other power reduction techniques

- Set device to highest device transmit power in a held to the ear mode
- All HAC modes need to support the same maximum output power
- Ensure clear in test report

#### WIFI Configuration

- U-NII-5 needs to be tested in at least 1 band between 5.925 and 6.00 GHz.



## **Interim Guidance Update**

The interim guidance in 285076 D03 Q9 for 5G NR FR1 Sub 6 bands will be removed in 90 days.

Once removed, applicants will be required to use a 5G callbox for demonstrating HAC compliance for 5G.

5G callboxes are required for Volume Control anyway



#### **WAIVER PAG Items**

• All HAC handsets need to file under Waiver DA 23-914.

- KDB 388624 D02 contains a short checklist for WAIVER filings:
  - ☐ The Form 731 associated waiver questions checked yes.
  - ☐ Support information uploaded (see KDB 502150 D01).
  - ☐ Waiver DA 23-914 uploaded as an exhibit.
  - ☐ Letter indicating how the waiver is applicable and that conditions are met.
  - ☐ Grant comments in Form 731 identify the device is granted under the waiver.
  - ☐ Manual and package insert include information on the waiver conditions.



## Labeling & Information for Hearing-Aid-Compatible

- **Package label. § 20.19 (f) (1).** The following information must be printed on the packaging. QR codes or electronic delivery are not permitted. Conversational gain in dB is the lowest dB rating for the air interfaces/ frequency bands tested for C63.19-2019 or C63.19-2019/Under Waiver DA 23-914.
  - 1. Hearing Aid-Compatible
  - 2. Conversational gain in dB with a Hearing Aid.
  - 3. Conversational gain in dB without a hearing aid.
- User manual or Package Insert. 20.19 (f) (2). The following information must be in print form and provided with the handset at the time of purchase and delivery. The information can be in the user manual if the user manual is provided in print form at the time of purchase and delivery of the handset. Otherwise, it shall be provided as an insert in print form with the handset packaging at purchase and delivery. QR codes or electronic delivery are not permitted for the following information.
  - 1. Handset is "Hearing Aid-Compatible".
  - 2. All frequencies and bands by air interfaces/codec provided as hearing aid-compatible.
  - 3. List all frequencies and bands by air interfaces/codec provided by the handset that have not been certified



# Labeling & Information for Hearing-Aid-Compatible

#### User manual or Package Insert. 20.19 (f) (2). continued

- 4. For the handset with frequency and bands by air interfaces not tested, include the following disclosure language:
  - "This phone has been tested and certified for use with hearing aids for some of the wireless technologies that it uses. However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids. It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise. Consult your service provider or the manufacturer of this phone for information on hearing aid compatibility. If you have questions about return or exchange policies, consult your service provider or phone retailer."
- 5. Narrative that explains that Hearing Aid-Compatible no longer uses the M & T rating of the older standards.
- 6. An explanation of the handset model's volume control capabilities and conversational gain in dB both with and without hearing aids and dB Receive Objective Loudness Rating.
- 7. An explanation for any exceptional testing circumstances: include the conversational gain rating for handsets tested under Under Waiver DA 23-914 regarding what air interfaces and codecs not tested, partially tested, or fully tested for conversational gain.



## **Questions?**