Hearing Aid Compatibility

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Third Report and Order
(DA 12-550) Released April 9, 2012 (*)

- Acceptable for certification ANSI C63.19-2011 (published May 27, 2011) beginning 30 days after Third Report and Order is published in the Federal Register

- Does not replace the ANSI C63.19-2007; either version can be used going forward
  - Must test any given handset model exclusively either ANSI C63.19-2007 or 2011

- No retesting or recertification needed; existing grants issued under ANSI C63.19-2007 (as well as earlier versions of ANSI C63.19) remain valid

(*) The rules will become effective after publication in the Federal Register
Two Separate Transitions Discussed

1. **12-month** transition period for HAC Certification of multi-band and multi-mode handsets that are not fully covered under the 2007 ANSI Standard.

2. **24/27-month** transition period to apply the FCC’s numerical/percentage deployment benchmarks to air interfaces not covered under ANSI C63.19-2007 (but covered under ANSI C63.19-2011).
12-Month Transition Period for Multi-Band and/or Multi-Mode Handsets

- Until 12 months after Federal Register publication, *multi-band and multi-mode handsets* may be certified as hearing aid-compatible if they meet the criteria under ANSI C63.19-2007 for all operations covered under that standard
  - Fact that handsets were not tested for all operations must be disclosed using the language in Section 20.19(f)(2)(i)\(^1\) of the rules.
  - Exception: if operations not covered under the ANSI C63.19-2007 are tested by the manufacturer and do not meet the criteria under ANSI C63.19-2011, this must be disclosed by clear and effective means. Section 20.19(f)(2)(iii)\(^3\).

- Handsets certified during the 12-month transition period may continue to be counted and marketed as hearing aid-compatible after the transition period

- After the 12-month transition period, any new handset containing operations that are not covered under the ANSI C63.19-2007 will have to be tested entirely under the ANSI C63.19-2011 in order to be certified as hearing aid-compatible

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\(^1\) reference to disclosure requirements on slide 9

\(^3\) reference to disclosure requirements on slide 9
Handset Categories and Applicable Standards

**Single Mode Multi Band**

A. Single mode handset operation defined within the C63.19-2007 standard
   - Can use 2007 or 2011

B. Single mode handset operation defined within the C63.19-2011 standard
   - Can use 2011, or
   - *Can use 2007 only during one Year Transition Period with disclosure 20.19(f) (2) (i)* \(^1\) & (iii) \(^3\)

**Multi-Mode Multi Band**

C. Multi mode handset operation defined within the C63.19-2007 standard
   - Can use 2007 or 2011

D. Multi mode handset operation defined within the C63.19-2011 standard
   - Can use 2011, or
   - *Can use 2007 only during one Year Transition Period with disclosure 20.19(f) (2) (i)* \(^1\) & (iii) \(^3\)

D. Multi mode handset operation defined within the C63.19-2007 standard with modes outside 2011
   - Can use 2007 or 2011 and disclosure 20.19(f) (2) (i) \(^1\)

E. Multi mode handsets operation defined within the C63.19-2011 standard with modes outside 2011
   - *Can use 2007 only during one Year Transition Period with disclosure 20.19(f) (2) (i)* \(^1\) & (iii) \(^3\)
   - Can use 2011 2011 with disclosure 20.19(f) (2) (i) \(^1\)

\(^1\) reference to Note 1 disclosure requirements on slide 9
\(^3\) reference to Note 3 disclosure requirements on slide 9
Technical Guidance

- During an interim period HAC guidance will be revised to address the changes associated with ANSI C63.19-2011

- The greatest challenge is likely to be in developing guidance for T-rating testing for VoLTE transmissions
  - Until guidance is issued, OET will certify handsets under ANSI C63.19-2011 without VoLTE T-rating test
    Must disclose that these handsets have not been tested for all their operations using language in Section 20.19(f)(2) (i) & (ii)
    alternatively, manufacturers or service providers may develop their own disclosure language, but they should consult with WTB staff
  - TCBs may also develop and use their own VoLTE T-rating testing techniques if they demonstrate sufficiency to OET

\(^2\)reference to Note 2 disclosure requirements on slide 9
Technical Guidance

During the interim period the FCC will work with C63.19, Test Labs, TCBs, Handset Manufactures, Test and Probe Equipment Manufactures to develop further guidance:

- Availability and calibration of near field measurement system for measuring M rating and MIF
  - Indirect method
  - Direct method
- Worst Case modes for emerging technologies
  - VoLTE M Rating
- VoLTE T-coil testing
  - Average talker loading dBm0
  - Test environments
- Additional guidance
  - As issues come up
  - Case by Case issues

During this interim period until further guidance is issued, applications for HAC certification using C63.19-2011 shall provide, through an KDB inquiry, detail test plans and methods used for calibration and verification of the near field measurement system.
Other Voice Transported modes.

- **Over-the Top Application (OTT)**
  - WI-Fi, 3G or 4G packet transports
    - like Skype mobile or oOVOo mobile
  - Currently outside of the current definition of a managed carrier CMRS services & expected to be the subject of pending rule making.
  - The policy will continue to require to note this capability in test reports and in the grant by using the Grant Note code HX
  - Disclosure Required for WiFi ***20.19(f) (2) (ii)

- **CMRS voice services over WiFi**
  - which also include (or in the future) VoLTE or similar service
  - Will be treated on a case by case bases. Consult directly with the Office of Engineering and Technology:
    - Handsets that meet the WiFi low power exemption of Clause 4 under C63.19-2011 providing CMRS voice standard is considered M4 rated.
    - For T coil you need to consult directly with the Office of Engineering and Technology
<table>
<thead>
<tr>
<th>Disclosure</th>
<th>§ 20.19 (f)</th>
<th>Slide Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>An explanation of the ANSI C63.19 rating system</td>
<td>1</td>
<td>All</td>
</tr>
<tr>
<td>Multi Mode/Multi Band &amp; not tested over all their operation</td>
<td>2</td>
<td>Note 1</td>
</tr>
<tr>
<td></td>
<td>i</td>
<td>Specific Language</td>
</tr>
<tr>
<td></td>
<td>ii</td>
<td>WIFI</td>
</tr>
<tr>
<td></td>
<td>iii</td>
<td>Note 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exception: when tested &amp; operations do not meet the criteria under ANSI C63.19-2011</td>
</tr>
<tr>
<td>GSM air interface in the 1900 MHz Band with a user-selectable mode</td>
<td>3</td>
<td>Note 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.5 dB Power Reduction</td>
</tr>
</tbody>
</table>