

C63[®]

**American National Standards
Committee C63 - EMC**

C63.2.3

Specifications for Antennas

Report to SC1

Oct. 7, 2025



American National Standards Committee C63 – EMC, SC1, C63.2.3

C63.2.3 WG:

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	William Graff	Bob Mitchell	Dave Zimmerman

C63.2.3 PINS:

May 6, 2025

Abstract: This project will create a new standard for ancillary equipment used in performing radiated emission measurements. The most important part is the antenna, but the standard will also include other equipment used for radiated emission measurements. It will incorporate, as necessary, corresponding material that is currently in C63.4, C63.25.1 and C63.25.2.

Need: Since this ancillary equipment (and in particular the antenna) is used for radiated emissions tests by many C63 standards, it is beneficial to have the corresponding requirements in a separate C63 standard, which can then be referred to by any C63 product-specific standard and the C63.25-series of site validation standards.

Activity:

- PINS approved at the previous meeting (May 2025), by both SC1 and C63 main committee.
- Meetings:
 - WG has had two meetings so far: July 15 and August 25.
 - Next meeting is scheduled for October 28. See the shared [C63 meeting calendar](#).
 - Agendas, meeting minutes, the C63.2.3 draft, and other files are in the [C63.2.3 restricted folder](#).
- The WG looked at older versions of C63.2 (when it still had “sensors”), but decided there is nothing that can be reused from those documents.
- The antenna requirements from the latest draft of next edition of C63.4 were carried over into the new C63.2.3 draft document, but the material was then simplified (removed the many table footnotes that just repeated requirements already in the text).

Activity (continued):

- The antenna table for the first two activities listed in C63.4 (frequency identification and comparison measurements) was removed, and these activities are now only mentioned in a note.
- The large loop antenna system (LLAS) was also added, from the latest draft of next edition of C63.29. This is currently used in C63.29 and C63.30, and it will also be called in C63.31. As in the published C63.29/C63.30, the LLAS requirements are the same as in CISPR 16-1-4, except that the 1V/A “sensitivity” is a recommendation (not a requirement) and that each of the three LLAS sensors must be calibrated. The requirements currently in the published C63.29/C63.30 were augmented to also include the “non-standard” LLAS of 3m and 4m, same as in CISPR 16-1-4.
- The “standard biconical dipole” requirements of C63.25.2 were also added.
- C63.2.3 also includes content from the “hybrid/bicon qualification” annex of C63.4. Only the antenna requirements were included, not the qualification method and criteria.

Activity (continued):

- The WG decided not to include requirements for preamplifiers (best place for that is in C63.2, together with the receiver).
- On other passives (such as cables, attenuators, filters), the WG decided to have these only in one standard, not both, and that the best place for them is in C63.2.2. This will be discussed at the next C63.2.2 meeting.

Future activity:

- The WG still has to address various text updates but should have a final draft for balloting after a few more meetings.