



## C63<sup>®</sup> Interpretation Request Form

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This form shall be used for submission of Interpretation Requests related to ANSI-IEEE standards that are within the responsibility of C63<sup>®</sup>. The eight parts of the form must be filled out completely, with the exception of the Subcommittee Response, to ensure expedient processing. This completed form is to be submitted to the [Secretary of ANSI-ASC-C63<sup>®</sup>](#) via e-mail.

Submission Date	Originator Name, Company
2/5/2021	David Waitt, Laboratory Assessor

Standard	Clause/ Sub clause	Paragraph Figure/ Table	Type (General/ Technical/Editorial)	Comment / Inquiry	Subcommittee Response <i>(to be filled in by Subcommittee Chair)</i>
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Standard	Clause/ Sub clause	Paragraph Figure/ Table	Type (General/ Technical/Editorial)	Comment / Inquiry	Subcommittee Response (to be filled in by Subcommittee Chair)
ANSI C63.4 (2014)	Annex N, N.1, Clause B 4		Calibration of hybrid antenna(s) used for radiated emissions	<p>ANSI C63.4 Annex N, N.1, Clause B 4 "The hybrid antenna shall have been calibrated for antenna factors, VSWR, and antenna symmetry by an ISO/IEC 17025-accredited calibration laboratory that has the following items included within its scope of accreditation":</p> <p>During a recent 17025 assessment of a test lab (NOT an accredited calibration lab) that performs its own "In House" calibrations of some of its test equipment , as allowed by, and in accordance with, the accrediting bodies requirements, the issue was raised that the lab performs In House calibrations on its antennas used for radiated emissions testing.</p> <p>The above section of the standard was referenced which seems to indicate that an "In House" calibration would not be allowed. During the ensuing discussion it was mentioned that this was NOT the intent of the clause in the standard and that an In House calibration of the antennas was , in fact, acceptable.</p> <p>I would like to request information from the committee on the intent of this clause. Is an "In House" calibration, by the test lab, of antennas used for radiated emissions, acceptable assuming the calibrations meet the calibration standard requirements and meet all the requirements for In House calibrations outlined by the accrediting body?</p>	<p>ANSI C63.4 Annex N, N.1, Clause B 4 States the following:-</p> <p>The hybrid antenna <b>shall</b> have been calibrated for antenna factors, VSWR, and antenna symmetry by an ISO/IEC 17025-accredited calibration laboratory that has the following items included within its scope of accreditation:</p> <ul style="list-style-type: none"> <li>i) The Standard Site Method (SSM) [per the associated subclause(s) of ANSI C63.5],</li> <li>ii) The measurement of antenna VSWR,</li> <li>iii) The measurement of antenna symmetry [per the associated subclause(s) of ANSI C63.5].</li> </ul> <p>Therefore, any calibration laboratory performing these tasks under the requirements of annex N shall be an ISO/IEC 17025 accredited calibration laboratory with the specific items defined within its scope. Any “in house” facility would have to meet these requirements.</p> <p>It should be noted that ANSI C63 is going to clarify the calibration requirements of antennas in the next edition of the standard.</p>