ANSI-ASC-C63® Interpretation Request Form

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Submission Date	Originator Name, Company
01/15/2015	Winnie Liu Hong Fu Jin Precision Electrons (Yantai) Co., Ltd.

Standard	Clause/ Sub clause	Paragraph Figure/ Table	Type (General/ Technical/ Editorial)	Comment / Inquiry	Subcommittee Response (to be filled in by Subcommittee Chair)

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ANSI C63.4-2009	Clause 6/ Sub clause 6.3.4	Equipment designed for wall-mounted operation shall be tested as tabletop EUT. The orientation of the equipment shall be consistent with that of normal operation. Any special supporting structures shall simulate typical installations and shall put the base of the EUT at a height of 80 cm above the reference ground plane.	Technical	Our 120 inch TV set is a new product, it is so big and heavy which size about 2.66 meters length by 1.6 meters height and weight is 300 kg. But it would be used as wall-mounted equipment. Can we test it as floor-standing equipment?	Clause 6.3.4 applies. Once EUT is used as a wall mounted device it has to be placed such that the bottom of the display is 80 cm above the ground plane. 6.3.4 indicates that special supporting structures shall simulate typical application. So if TV is mounted at a height above the ground plane, then such supporting structure must be used and place the bottom of the display 80 cm above the ground plane. In addition these clauses (red font is for emphasis only to the question) apply **10.2.7 Measurement procedures** The sequence of testing followed to determine the emissions included in the test report should be documented. For example, the sequence used during exploratory testing in accordance with 7.3.3 and 8.3.1 should be given in the test report, in sufficient detail to allow replication of the test results by procuring or regulatory agencies, or if required to perform additional tests and ongoing compliance checks. Any measurements that utilize special test software shall be indicated and referenced in the test report. **1.2 Purpose and applications** This document is intended to standardize methods, instrumentation, and facilities used to characterize device emissions with respect to voluntary or regulatory compliance requirements designed to protect authorized communication services. The specified procedures are intended to be applied primarily in controlled laboratory environments, but they may be used for emission measurement of in situ devices where indicated. This standard may be applied to emission measurement of a variety of electrical and electronic devices, regardless of size and characteristics. The devices may be single, stand-alone units, or multiple, interconnected units. This allows application to any size equipment

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ANSI C63.4-2009	Annex D.3 Table D.1 Table D.2	In evaluating the site, the transmit antenna shall be placed at various points within the test volume with both horizontal and vertical polarization, such as illustrated in Figure D.3 and Figure D.4 (German [B12]). This may require a maximum of 20 separate site attenuation measurements, that is, five positions in the horizontal plane (center, left, right, front, and rear, measured with respect to the center and a line drawn from the center to the position of the measuring antenna), for two polarizations (horizontal and vertical) and for two heights (1 m and 2 m, horizontal; 1 m and 1.5 m, vertical).	Technical	If the height of EUT is more than 2m (eg.2.5m), whether the NSA need to be re-measured on the basis of increasing the height of test volume or not? If yes, which standard or measurement procedure we should follow? In Table D.1and Table D.2, Theoretical normalized site attenuation only include two heights (1 m and 2 m, horizontal; 1 m and 1.5 m, vertical),What about other height(eg.2.5m)?	C63.4 does not require performing NSA with the antenna heights greater than 2 meters. The current NSA geometry for the site validation is to be viewed as sufficient to measure EUTs of heights taller than 2.0 meters, despite the requirement in Annex D.3. In addition, Figure 11 does not indicate an overall EUT height limitation that would cause site validation with antennas extending above 2 meters. Floor standing EUTs that are higher than 2 meters especially with cable racks have measured for many years without considering the validation of the test site for these larger EUTs. There is a need for further clarification which will be considered in the next revision of C63.4 (beyond the 2014 edition)..

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ANSI C63.4-2009	Annex D.3 Table D.1 Table D.2	The maximum height of the EUTs to be measured, above the reference ground plane, shall not exceed the height at which the volumetric measurements were performed. The maximum volumetric measurement height is to the upper tip of the antenna used in the vertical orientation or horizontal orientation when performing NSA.	Technical	Ditto	It is clear that NSA is performed with antennas that in horizontal polarization do not exceed 2 meters in height and for vertical polarization the upper tip of most used antennas with the center set at 1.5 meters above the ground plane also do not exceed 2 meters above the ground plane. Before any studies indicate differently, tests can continue to be performed with EUTs greater than 2 meters in height. The assumption for now is that sites meeting NSA using Annex D is sufficient to perform tests on EUTs greater than 2 meters in height. Clarification of this will be considered in the next edition of C63.4 (after the 2014 edition). Further support for this view is contained above in clauses 1.2 and 10.2.7.