# ANSI-ASC-C63® Interpretation Request Form

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| Submission Date | Originator Name, Company |
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| 2/15/2015 | Nana Liu, Foxconn |

| 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 C63.4-2014 | 5.5.1 a) | Paragraph | Technical | In section 5.5.1, it is said "a) For a measurement distance of 3 m, test facilities (i.e., test sites) used for making final compliance radiated emissions measurements in the frequency range of 1 GHz to 40 GHz are deemed to be acceptable when ***either*** of the following conditions [i.e., item 1) or item 2)] is met.<br>1) **Site validation by means of *S*VSWR measurements:** The test site has been shown to comply with the *S*VSWR requirements specified in 8.3.2 of CISPR 16-1-4:2010-04 …<br>2) **Alternative site validation without *S*VSWR measurements:** RF absorbing material is placed on the test site ground plane and turntable, covering a minimum area with length of (2.3 m + turntable diameter, in m) or 3.8 m, whichever is greater, and width of 3.6 m, for a 3 m test distance between the antenna and the center of the turntable; normative Figure 6 shows the geometry."<br><br>According to 8.3.2 of CISPR 16-1-4:2010-04, the 3m test distance is not "between the antenna and the center of the turntable".<br><br>My question is: if we perform site validation by means of SVSWR measurement, should the test distance be between the antenna and the center of the turntable? Or shall we just follow 8.3.2 of CISPR 16-1-4:2010-04? Please help to clarify it. Thanks. | When choosing to perform S-VSWR measurements to validate a radiated emission test site, ANSI C63.4 clearly states to use CISPR 16-1-4: 2010-04. This means that is the procedure called out in clause 8.3 of CISPR 16-1-4: 2010-04 is to be applied, including the measurement setup which also defines the measurement distance.<br><br>When using the alternative site evaluation option in ANSI C63.4-2014 without invoking the S-VSWR site validation method, the absorbers have to be positioned as indicated in Figure 6 and as described in the related normative text. This clause uses the text "center of the turntable" as part of the description of absorber placement on the ground plane which is independent of the requirements related to the S-VSWR method described in CISRP 16-1-4.<br><br>Therefore, the requirements called out in CISPR 16-1-4 have to be implemented when conducting the S-VSWR measurements. |