Electromagnetic compatibility (EMC) compliance measurements using CISPR 22 standard represent significant cost and time demands. Therefore the pre-compliance and pre-assessment measurements are used for characterization of equipment during their design and development for reducing the cost and time demands. The professional EMC pre-compliance measurement equipment and accessories are also expensive for small R&D companies. A lot of small companies use “home-made” measurement equipment and accessories in this case. We analyzed the using of “home-made” small shielded enclosure for pre-compliance and pre-assessment measurements of electromagnetic fields emission. The combined approach (modeling and measurement) is used to discover of the worst case of EM-fields emission. This approach is demonstrated using an example of a Submodule-on-Motherboard structure.

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