

Correlation between ESA Immunity Test Methods (Second Report)

- Influence of Circuit Impedance and Injection Point -

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Comparative measurements were conducted on the correlation between the ALSE method, BCI method, and RVC method, which are ESA immunity test methods specified in ISO 11452.

The comparative measurements regarding the effect of different circuit impedances showed that the effect of circuit impedance was relatively small in these three test methods.(Fig.1, Fig.2, Fig.3)

Furthermore, comparative measurements regarding the effect of different injection points in the BCI method showed that the null point frequency may change depending on the injection point, and that the effect of induced voltage due to the injection point was relatively small.(Fig.4)

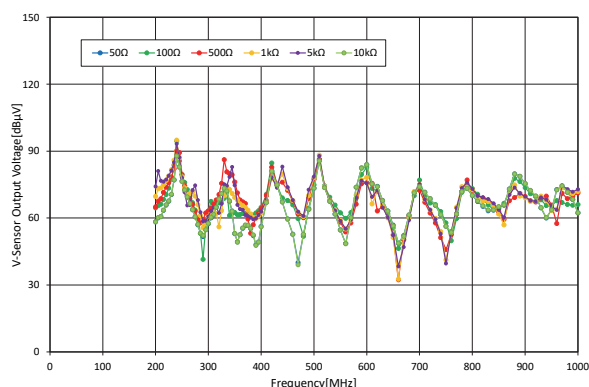


Fig.1 Effect of circuit impedance (ALSE Method)

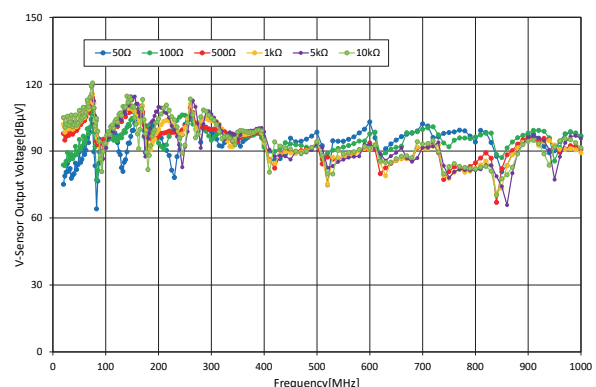


Fig.2 Effect of circuit impedance (BCI Method)

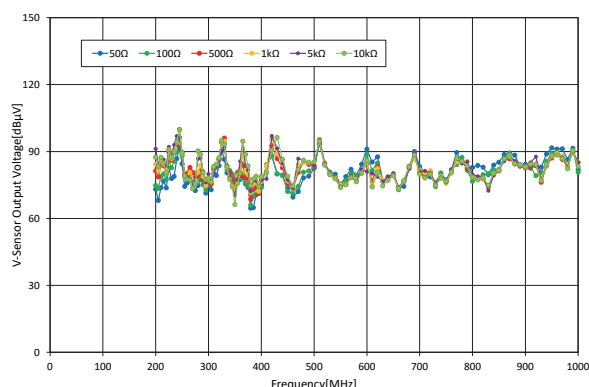


Fig.3 Effect of circuit impedance (RVC Method)

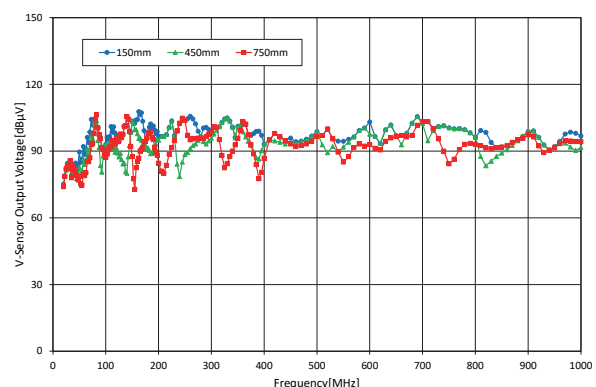


Fig.4 Effect of injection point (BCI Method)