



VARISCITE LTD.

VAR-SOM-6UL

EMC Radiation test

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Document Revision History

Revision	Date	Notes
1.0	17/12/2020	Initial

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1 Introduction

This Document presents the VAR-SOM-6UL EMC radiation test, held at the “THE STANDARDS INSTITUTION OF ISRAEL” EMC test labs (http://www.sii.org.il/896-en/SII_EN.aspx).

2 Test Set up

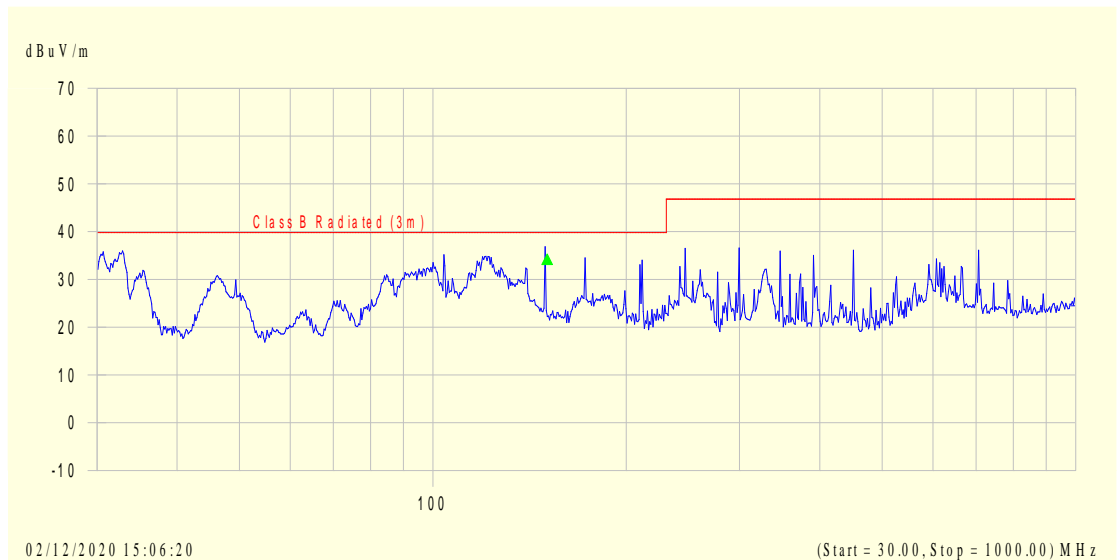
Test setup included a stock VAR-SOM-6UL Rev 1.2 module assembled on a Concerto-Board carrier board Rev 1.2, powered by 12V linear power supply. All SOM features were enabled, Ethernet ports of the carrier board were connected to an Ethernet switch. A script running continuous scan for WLAN access points and eMMC writes was executed.

Note: Tested with the following pad config setting for ENET1/2 clocks:
SRE (slew rate) =0, DSE (drive strength) =3.

3 Results

3.1 Radiation Spectrum

The blue graph represents Vertical & Horizontal polarity radiation frequency measurements. The red horizontal line is the EN55022 Class B standard limits



3.2 Peak Frequency Measurement

Frequency, Mhz	QP, dBµV/m	QP Limit, dBµV/m	Delta QP (dB)
149.998	34.4	40.0	-5.6

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