



VARISCITE LTD.

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VAR-SOM-MX8X

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-MX8X EMC radiation test, held at the “THE STANDARDS INSTITUTION OF ISRAEL” EMC test labs ([http://www.sii.org.il/896-en/SII\\_EN.aspx](http://www.sii.org.il/896-en/SII_EN.aspx)).

## 2 Test Set up

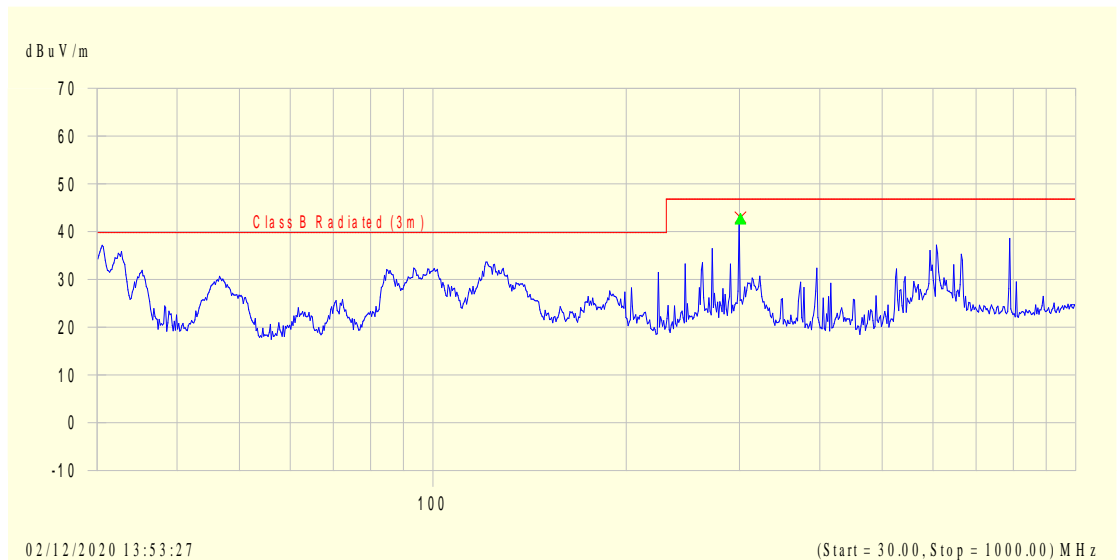
Test setup included a stock VAR-SOM-MX8X Rev 1.2 module assembled on a Symphony-Board carrier board Rev 1.4A, powered by 12V linear power supply. All SOM features were enabled, Ethernet ports of the carrier board were connected to an Ethernet switch. A script running continuous scan for WLAN access points and eMMC writes was executed.

Note: Isolation resistors RN1,RN2,RN3,R151,R136 were not assembled on the Symphony-Board.

## 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	Peak, dBµV/m	QP, dBµV/m	QP Limit, dBµV/m	Delta QP (dB)
299.998	43.2	42.9	47.0	-4.1

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