



VARISCITE LTD.

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VAR-SOM-MX8

EMC Radiation test

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## Document Revision History

Revision	Date	Notes
1.0	17/12/2020	Initial
1.1	17/07/2022	Added results for SOM revision v1.4 (ADIN1300 Ethernet PHY) - updated sections 2, 3.1,3.2

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# 1 Introduction

This Document presents the VAR-SOM-MX8 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

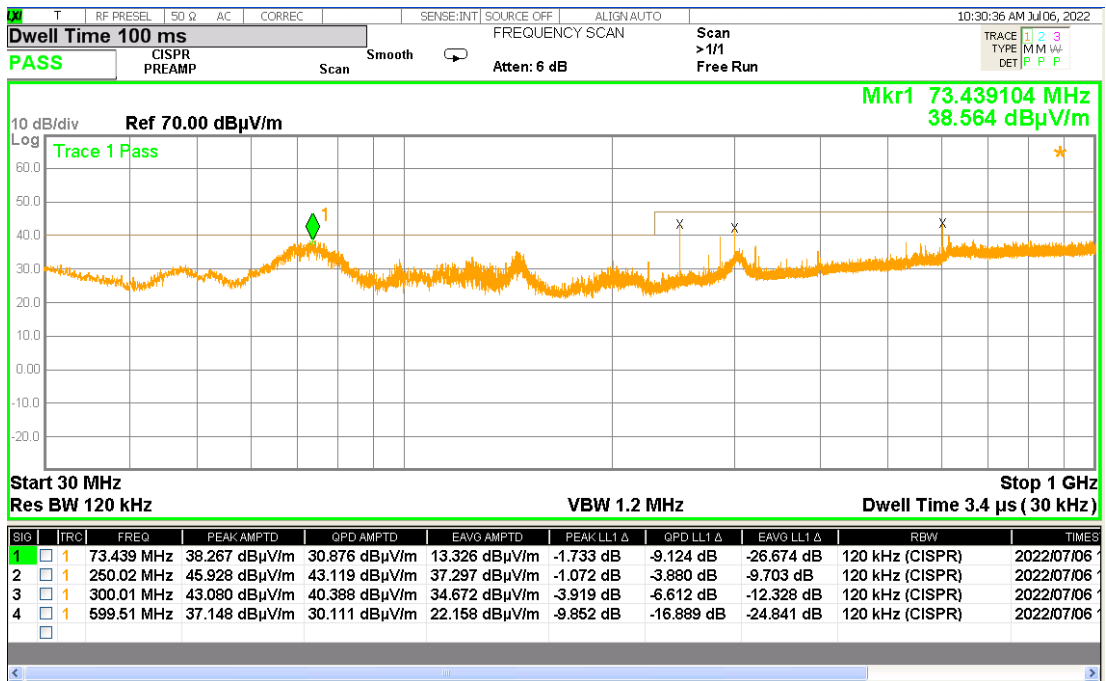
Test setup included a stock VAR-SOM-MX8 module assembled on a Symphony-Board carrier board, powered by 12V linear power supply. All SOM features were enabled, Ethernet ports of the carrier board were connected to an Ethernet switch. A script running continuous scan for WLAN access points and eMMC writes was executed.

## 3 Results

### 3.1 Radiation Spectrum (SOM Rev 1.3)

SOM: VAR-SOM-MX8 Rev 1.3  
 Carrier board: Symphony-Board Rev 1.6

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

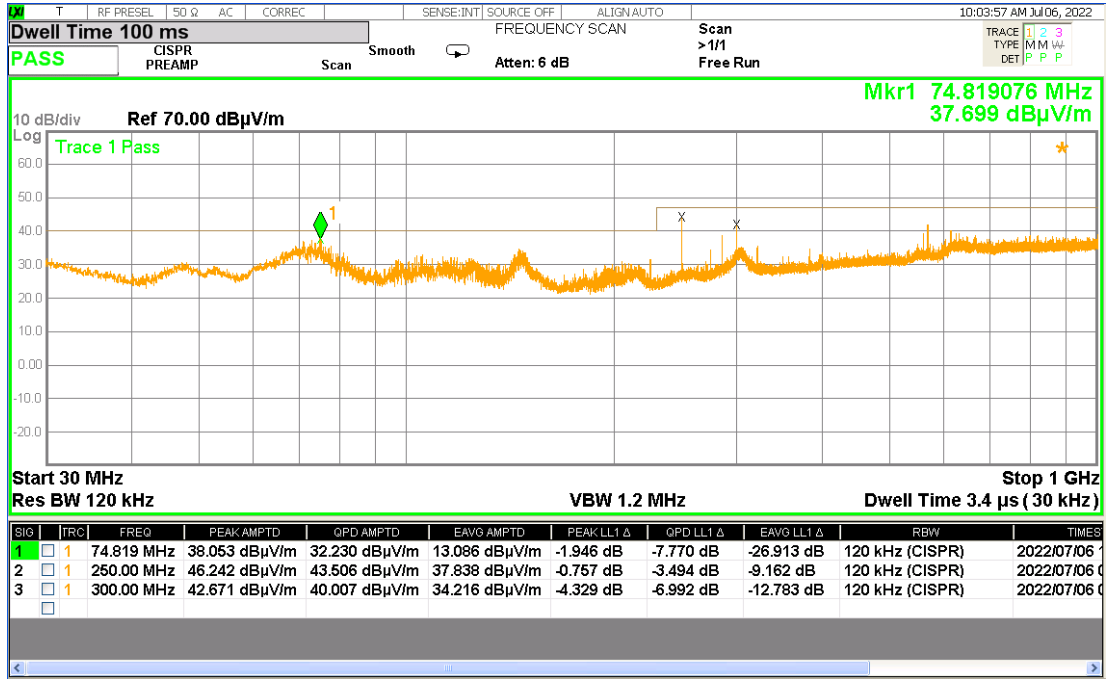


### 3.2 Radiation Spectrum (SOM Rev 1.4)

SOM: VAR-SOM-MX8 Rev 1.4

Carrier board: Symphony-Board Rev 1.6

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



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