



VARISCITE LTD.

VAR-SOM-MX8M-PLUS

EMC Radiation test

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Document Revision History

Revision	Date	Notes
1.0	10/02/2022	Initial

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1 Introduction

This Document presents the VAR-SOM-MX8M-PLUS 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-MX8M-PLUS Rev 1.1A module assembled on a Symphony-Board carrier board Rev 1.5A, 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.

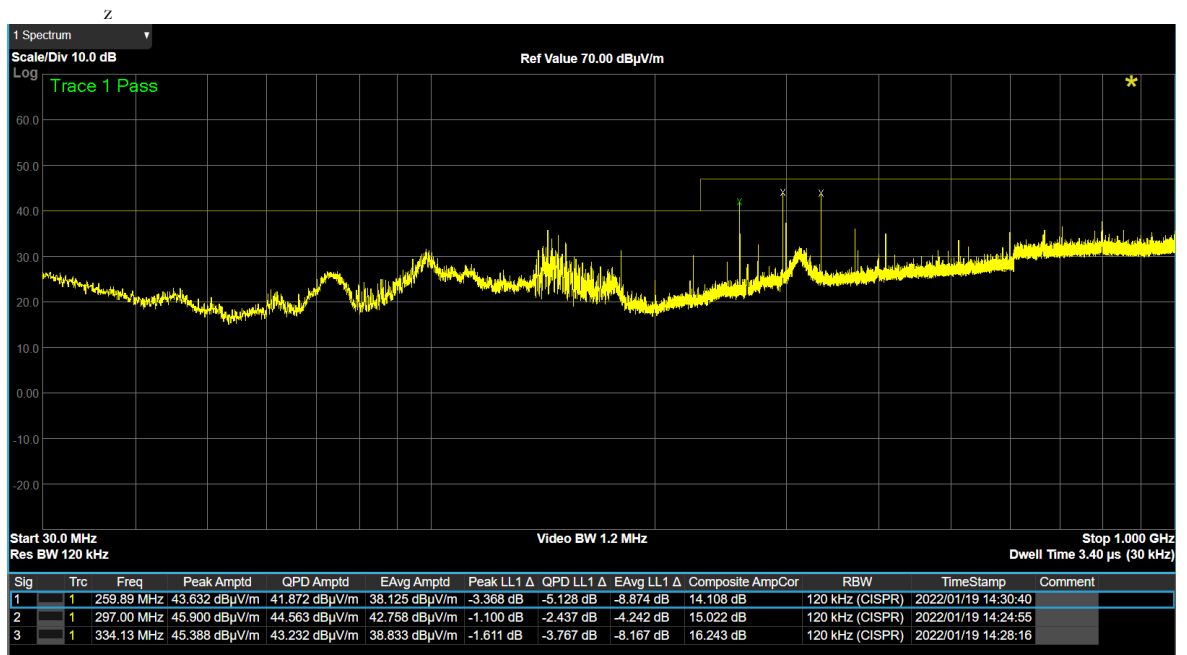
Note:

1. Isolation resistors RN1,RN2,RN3,R151,R136 were not assembled on the Symphony-Board.
2. R22,R23,R35,R36 were assembled with Ferrite Bead P/N: BLM15BA330SN1D
3. LVDS clock set to 37.125MHz

3 Results

3.1 Radiation Spectrum

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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