VARISCITE LTD.
DART-MX8M-PLUS
EMC Radiation test

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### Document Revision History

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<tr>
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<td>Added results for SOM revision v1.3 (ADIN1300 Ethernet PHY) - updated sections 2, 3.1; added section 3.2</td>
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1 Introduction

This Document presents the DART-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 DART-MX8M-PLUS module assembled on a VAR-DT8CustomBoard carrier board powered by 5V linear power supply. All SOM features were enabled, Ethernet ports of the carrier board were connected to Ethernet switch. A script running continuous scan for WLAN access points and eMMC writes was executed.

Notes:
1. R94-R97, R114-R117 were assembled with Ferrite Bead P/N: BLM15BA330SN1D
2. LVDS clock set to 37.125MHz

3 Results

3.1 Radiation Spectrum (SOM Rev 1.2)

SOM: DART-MX8M-PLUS Rev 1.2
Carrier board: VAR-DT8CustomBoard 2.1

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 1.3)

SOM: DART-MX8M-PLUS Rev 1.3
Carrier board: VAR-DT8CustomBoard 3.0

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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