## Document Revision History

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<th>Revision</th>
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<tr>
<td>1.0</td>
<td>10/02/2022</td>
<td>Initial</td>
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<td>1.1</td>
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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 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 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 1.1A)

SOM: VAR-SOM-MX8M-PLUS Rev 1.1A
Carrier board: Symphony-Board Rev 1.5A

Notes:
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

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: VAR-SOM-MX8M-PLUS Rev 1.3
Carrier board: Symphony-Board Rev 1.6

Notes:
1. R22,R23,R35,R36 were assembled with Ferrite Bead P/N: BLM15BA330SN1D
2. LVDS clock set to 37.125MHz

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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