Document Revision History

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

![Graph showing radiation spectrum](image_url)
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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