# Document Revision History

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<tr>
<td>1.0</td>
<td>17/12/2020</td>
<td>Initial</td>
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1 Introduction

This Document presents the VAR-SOM-6UL 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-6UL Rev 1.2 module assembled on a Concerto-Board carrier board Rev 1.2, 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: Tested with the following pad config setting for ENET1/2 clocks:
SRE (slew rate) =0, DSE (drive strength) =3.

3 Results

3.1 Radiation Spectrum

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

![Radiation Spectrum Graph](image)

3.2 Peak Frequency Measurement

<table>
<thead>
<tr>
<th>Frequency, Mhz</th>
<th>QP, dBµV/m</th>
<th>QP Limit, dBµV/m</th>
<th>Delta QP (dB)</th>
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<tbody>
<tr>
<td>149.998</td>
<td>34.4</td>
<td>40.0</td>
<td>-5.6</td>
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