VARISCITE LTD.

DART-6UL-5G

EMC Radiation test

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## Document Revision History

<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
<th>Notes</th>
</tr>
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<tr>
<td>1.0</td>
<td>23/07/2017</td>
<td>Initial</td>
</tr>
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</table>
Table of Contents

Document Revision History ........................................... 2
Table of Contents .......................................................... 3
1 Introduction .................................................................... 4
2 Test Set up ..................................................................... 5
3 Results ............................................................................. 5
3.1 Radiation Spectrum ..................................................... 5
3.2 Peak Frequency Measurement ....................................... 5
4 Legal Notice ................................................................. 6
5 Warranty Terms ............................................................. 7
6 Contact Information ....................................................... 8
1 Introduction

This Document presents the DART-6UL-5G 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 includes DART-6UL-5G Rev 2.0 module assembled on a VAR-6ULCustomBoard carrier board Rev 2.0, powered by 5V linear power supply.

The following DART-6UL-5G features were enabled:
1. Single core ARM Cortex A7@ 528 Mhz
2. WLAN and BT controller
3. 24 Bit LCD controller
4. Ethernet controller
5. Audio codec

The following VAR-6ULCustomBoard features were enabled:
1. 3.3V DC-DC power supply
2. LVDS Display transmitter
3. Ethernet controller

3 Results

3.1 Radiation Spectrum

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

![Radiation Spectrum Graph]

3.2 Peak Frequency Measurement

<table>
<thead>
<tr>
<th>Frequency, Mhz</th>
<th>Peak, dBµV/m</th>
<th>QP, dBµV/m</th>
<th>QP Limit, dBµV/m</th>
<th>Delta QP (dB)</th>
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<tbody>
<tr>
<td>315.25</td>
<td>42.689</td>
<td>38.088</td>
<td>47.0</td>
<td>8.912</td>
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