



VARISCITE LTD.

VAR-SOM-AM33

EMC Radiation test

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Document Revision History

Revision	Date	Notes
1.0	17/Jan/2013	Initial

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1 Introduction

This Document presents the VAR-SOM-AM33 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 VAR-SOM-AM33 Rev 1.1 module assembled on a VAR-AM33CustomBoard Rev 1.1 carrier board, powered by 12V linear power supply.

Dhrystone benchmark was used for 100% CPU utilization.

The following VAR-SOM-AM33 features were enabled:

1. 600mhz @ 100% utilization
2. 16 Bit LCD controller
3. Ethernet controller
4. Audio codec

The following VAR-AM33CustomBoard features were enabled:

1. 3.3V & 5V DC-DC power supply
2. LVDS Display transmitter.
3. USB HUB

3 Results

3.1 Radiation Spectrum

The blue line represents vertical & horizontal polarity radiation frequency measurements. The red line is the FCC Class B standard limits

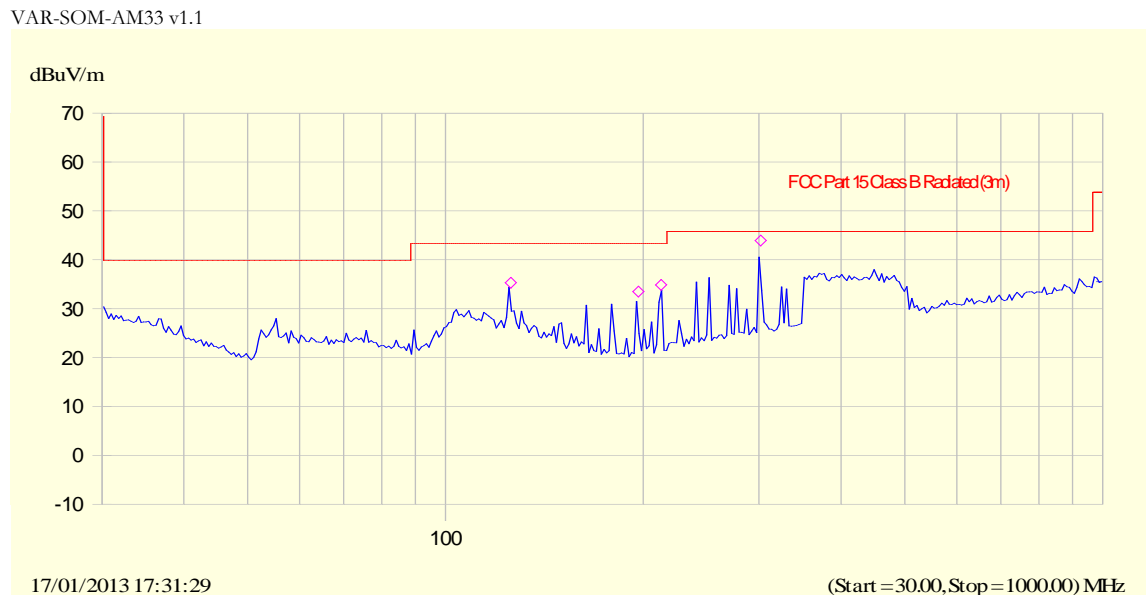


Figure 1 VAR-SOM-AM33 v1.1

3.2 Peak Frequencies measurements

Frequency	Peak	QP	QP Limit	QP-QP Limit
MHz	dBuV/m	dBuV/m	dB	dB
125.014	35.5	31.8	43.5	-11.7
195.358	33.7	31.4	43.5	-12.1
211.515	35.1	31.3	43.5	-12.2
299.992	44.1	41.4	46.0	-4.6

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