EMI TEST REPORT

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FOR RIVERDI HDMI 10.1” DISPLAY SERIES

Rev.1.0
2022-05-24

The EMI test report applies to below Riverdi HDMI 10.1” displays:

PRODUCT NAME	DESCRIPTION
RVT101HVHNWC00	Riverdi 10.1”, 800 cd/m², IPS, HDMI, uxTouch, Air bonding, No metal frame
RVT101HVHNWC00-B	Riverdi 10.1”, 850 cd/m², IPS, HDMI, uxTouch, Optical bonding, No metal frame
RVT101HVHNWCA0	Riverdi 10.1”, 800 cd/m², IPS, HDMI, aTouch, Air bonding, No metal frame
RVT101HVHFWCA0	Riverdi 10.1”, 800 cd/m², IPS, HDMI, aTouch, Air bonding, With metal frame

1. REVISION RECORD

REV NO.	REV DATE	CONTENTS	REMARKS
1.0	2022-05-24	Initial Release	

2. CONTENTS

1. REVISION RECORD 2
2. CONTENTS 3
3. SUMMARY OF TEST RESULT 4
4. GENERAL INFORMATION 4
4.1 Description of EUT 4
4.2 Description of EUT peripheral 4
4.3 Measuring device and test settings 4
5. TEST RESULTS 5
5.1 Test results 5
6. Photos 6
7. Summary 7

3. SUMMARY OF TEST RESULT

TEST ITEM	NORM APPLIED	Result
RADIATED EMISSION 30-1000 MHz	EN 55032 (CISPR32). Radiated emission 30-1000 MHz (EMI)	Pass

Date of Test: 01/12/2021

Certificated EMC Lab: RADMOR S.A., Gdynia.

Scope of accreditation for the testing lab: **No AB 1132**

More info about the lab from the below link:

https://www.radmor.com.pl/services/lab

AB 1132

4. GENERAL INFORMATION

4.1 Description of EUT

PRODUCT NAME	RVT101HVHNWCA0
TEST VOLTAGE	Battery 12V

Note. All test was performed on RVT101HVHNWCA0. But results applied for every module within this line: RVT101HVHNWC00, RVT101HVHNWC00-B, RVT101HVHNWCA0, RVT101HVHFWCA0.

4.2 Description of EUT peripheral

The Raspberry pi 4 was used to drive the RVT101HVHNWCA0 during the EMI test.

First, Raspberry pi 4 is connected to a 10.1" HDMI display module with an HDMI cable.

Second, the module was powered from 12 V battery.

The measurement was performed with vertical and horizontal polarization of the receiver antenna. The test image of the display module is the desktop of running Raspberry pi 4.

4.3 Measuring device and test settings

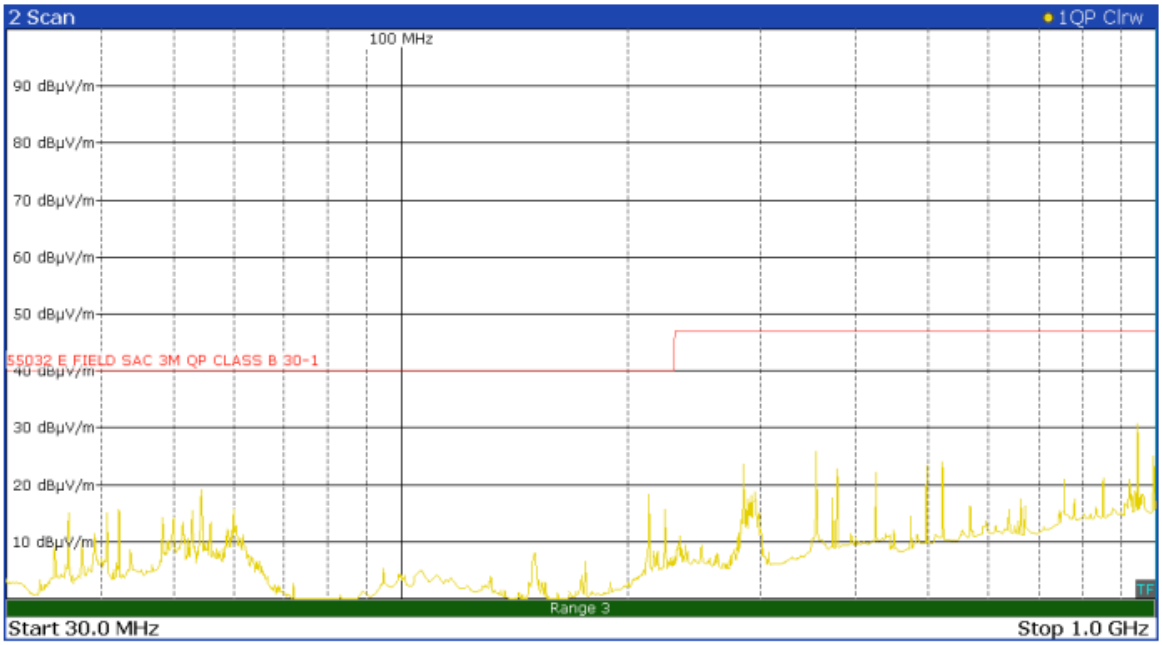
EQUIPMENT	MODEL	VERSION
EMI test receiver	Rohde & Schwarz ESW-44	1.72 SP1

Meas BW: 120 kHz	Filter Type: Quasipeak	Meas Time: 1 s	Center Freq: 1 GHz
Attenuation: 0 dB	Auto Range: On	Auto Preamp: On	Preamp: On
Preselector: On	Filter Split: Off	Notch Filter 1: Off	Notch Filter 2: Off
Input: 1 DC			

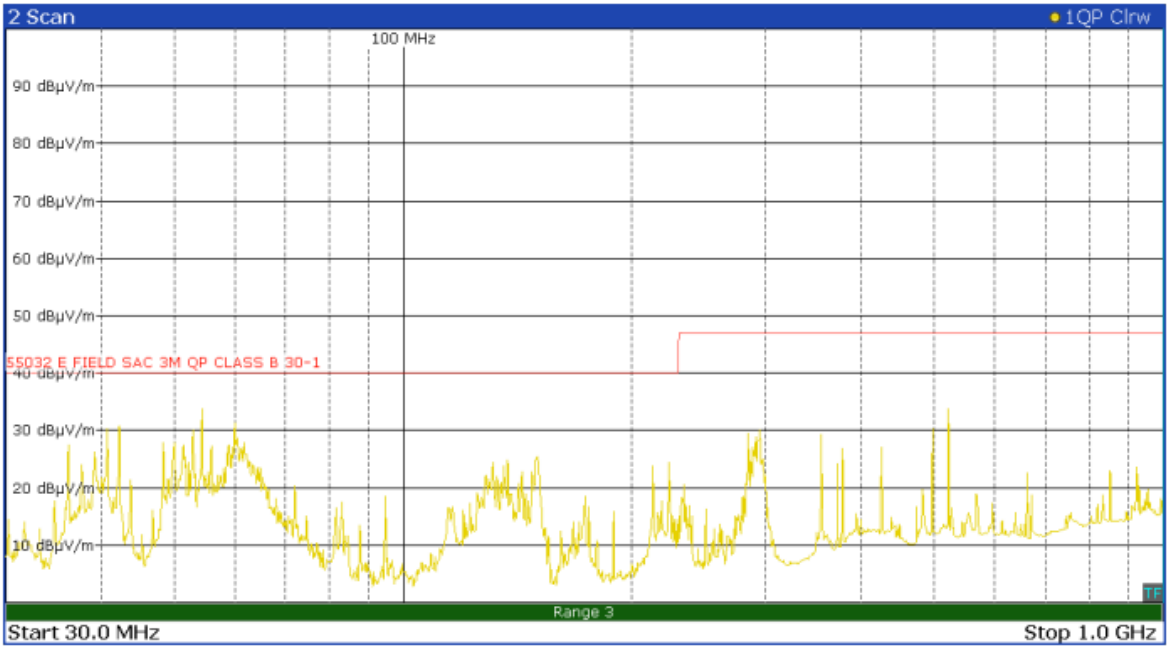
5. TEST RESULTS

5.1 Test results

Horizontal:



Vertical:



6. Photos

Figure 1. Radiation Emission 30-1000MHz Test Back View

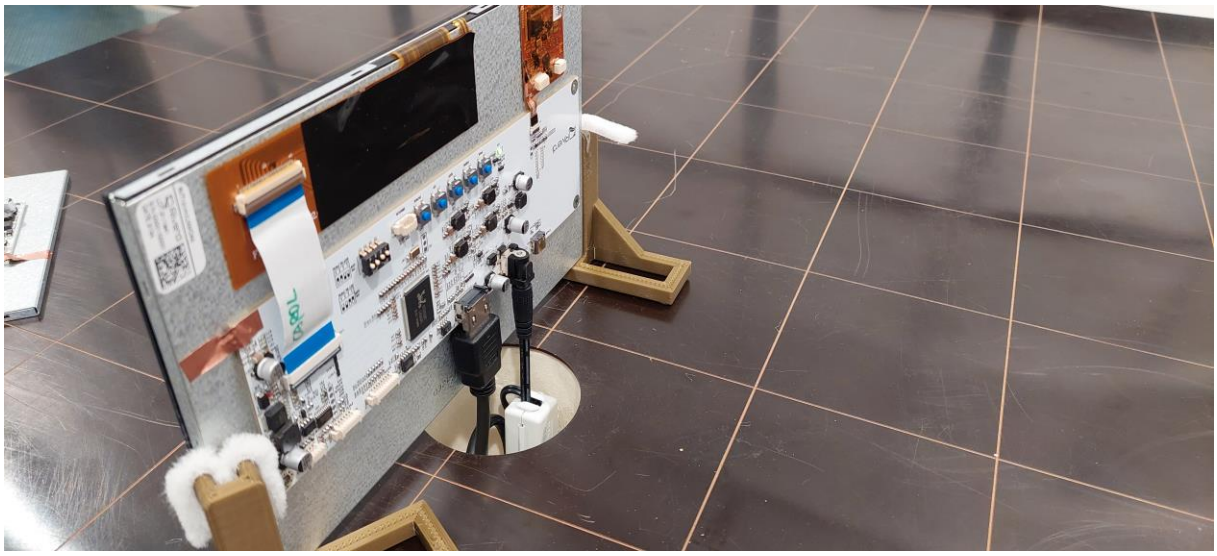


Figure 2. Radiation Emission 30-1000MHz Test Front View

7. Summary

The test results confirmed the low electromagnetic emissions of Riverdi HDMI 10.1" series.

It produces low electromagnetic interference (EMI) to the surrounding space. In consequence, external electronic devices or circuits do not need special electromagnetic screening.