



## EMI TEST REPORT

### FOR RIVERDI EVE4 IPS 7.0" LCD SERIES

Rev.1.0  
2021-08-03

The EMI test report applies to below Riverdi EVE4 IPS 7.0" series:

PRODUCT NAME	DESCRIPTION
RVT70HSBFWN00	EVE4, IPS, 7.0", 1000cd/m <sup>2</sup> , SPI/QSPI, No touch panel, Metal frame
RVT70HSBNWN00	EVE4, IPS, 7.0", 1000cd/m <sup>2</sup> , SPI/QSPI, No touch panel



## 1. REVISION RECORD

REV NO.	REV DATE	CONTENTS	REMARKS
1.0	2021-08-03	Initial Release	



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## 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: 24/05/2021

EMC Lab: RADMOR S.A., Gdynia.

## 4. GENERAL INFORMATION

### 4.1 Description of EUT

<b>PRODUCT NAME</b>	RVT70HSBFWN00
<b>TEST VOLTAGE</b>	Battery 6V

**Note.** All test was performed on RVT70HSBFWN00. But results applied for every module within this line: RVT70HSBNWN00.

### 4.2 Description of EUT peripheral

The revelation board designed by Riverdi was used to drive the RVT70HSBFWN00 during the EMI test.

The following EUT operation modes were tested:

#### Mode A:

The revelation board was connected with RVT70HSBFWN00 via RiBUS.

During the test, the revelation board, as a host device, keeps transferring data to RVT70HSBFWN00 via RiBUS with full SPI speed at 6 MHz.

Animated pictures were presented on the screen.

#### Mode B:

The images were generated by the revelation board.

During the test, the revelation board was disconnected to eliminate the radiated emission from it.

The RVT70HSBFWN00 was powered via RiBUS, and a non-animated picture was presented from the internal BT817Q memory.

### 4.3 Measuring device and test settings

EQUIPMENT	MODEL	VERSION
EMI test receiver	Rohde & Schwarz ESW-44	1.72 SP1
Meas BW: 120000,000000 Hz	Filter Type: Quasipeak	Meas Time: 1,000000 s
Center Freq: 1000000000,000000 Hz		
Attenuation: 0,000000 dB	Auto Range: On	Auto Preamp: On
Preselector: On	Filter Split: Off	Notch Filter 1: Off
Input: 1 DC		Notch Filter 2: Off



## 5. TEST RESULTS

### 5.1 The test result of Mode A:

#### Test condition

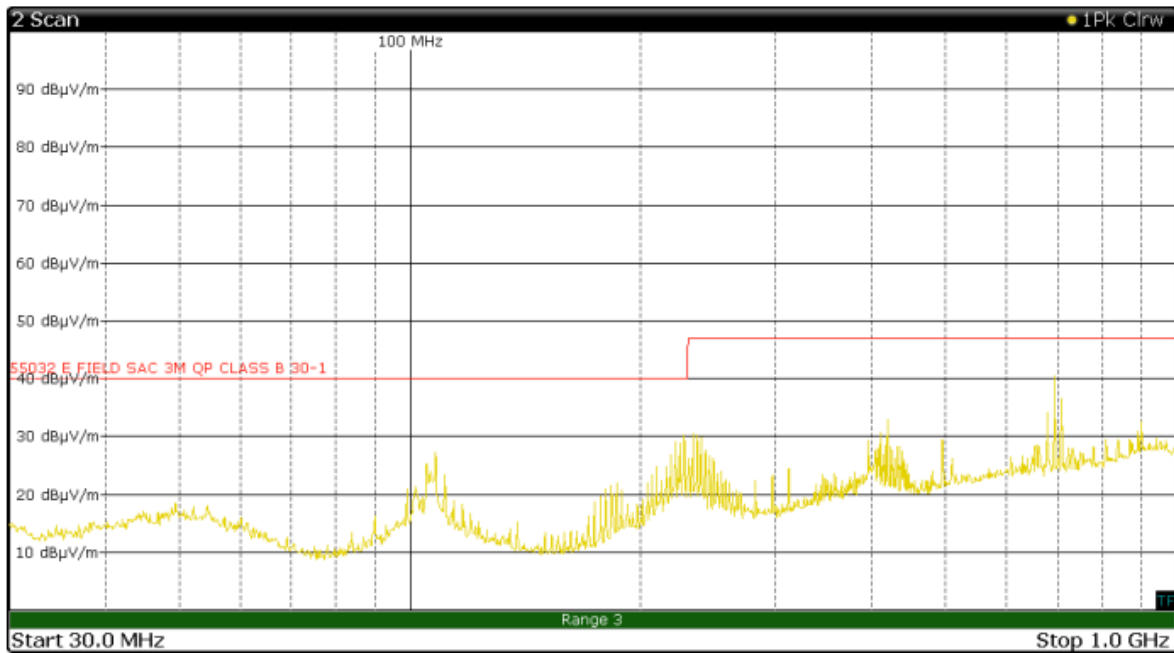
Power supply: Battery 6 V

External oscillator: 12.00 MHz

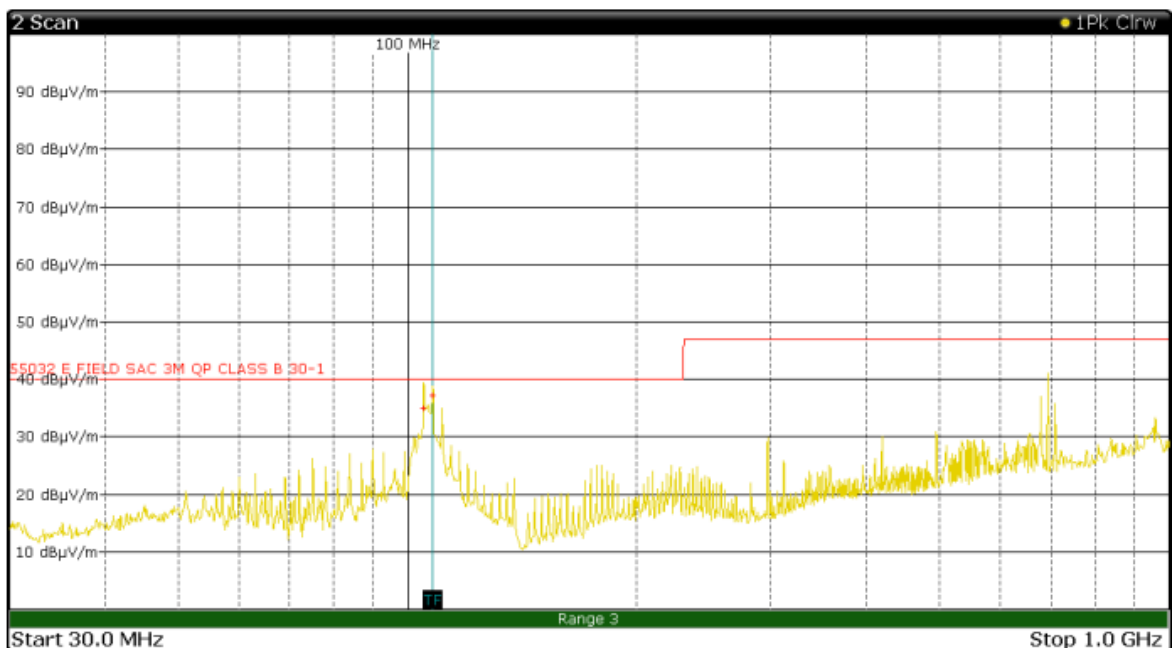
PCLK: 51.0 MHz

Device and test settings: Same settings as subchapter 4.3 presented.

#### Horizontal:



#### Vertical:





## 5.2 The test result of Mode B:

### Test condition

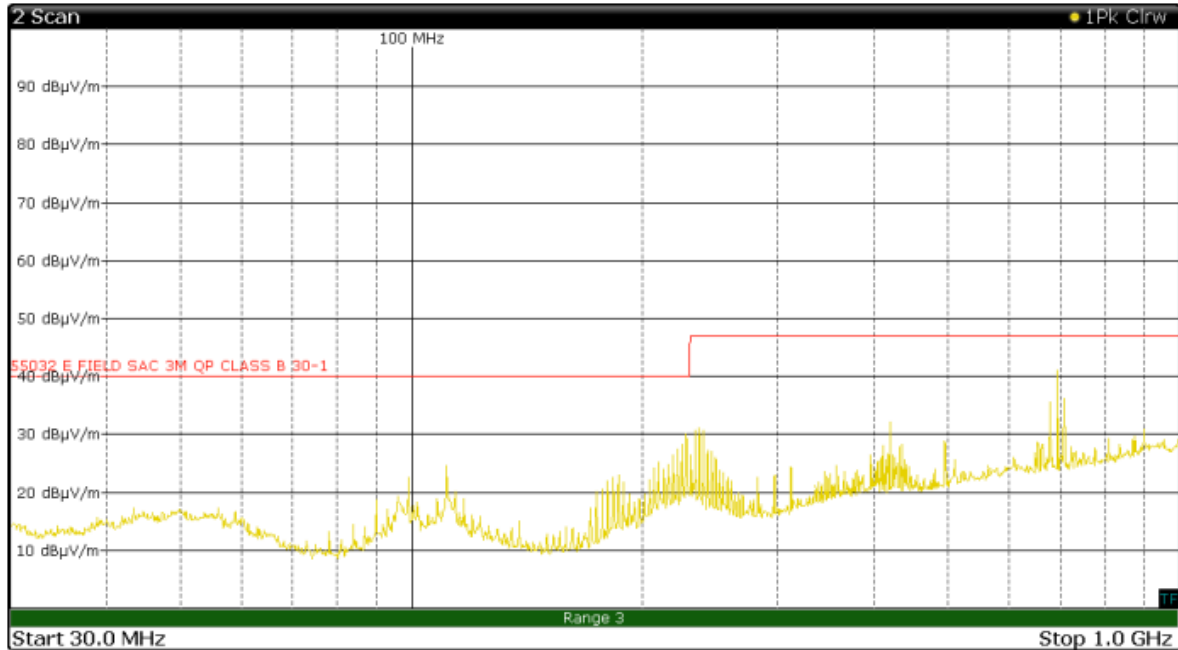
Power supply: Battery 6 V

External oscillator: 12.00 MHz

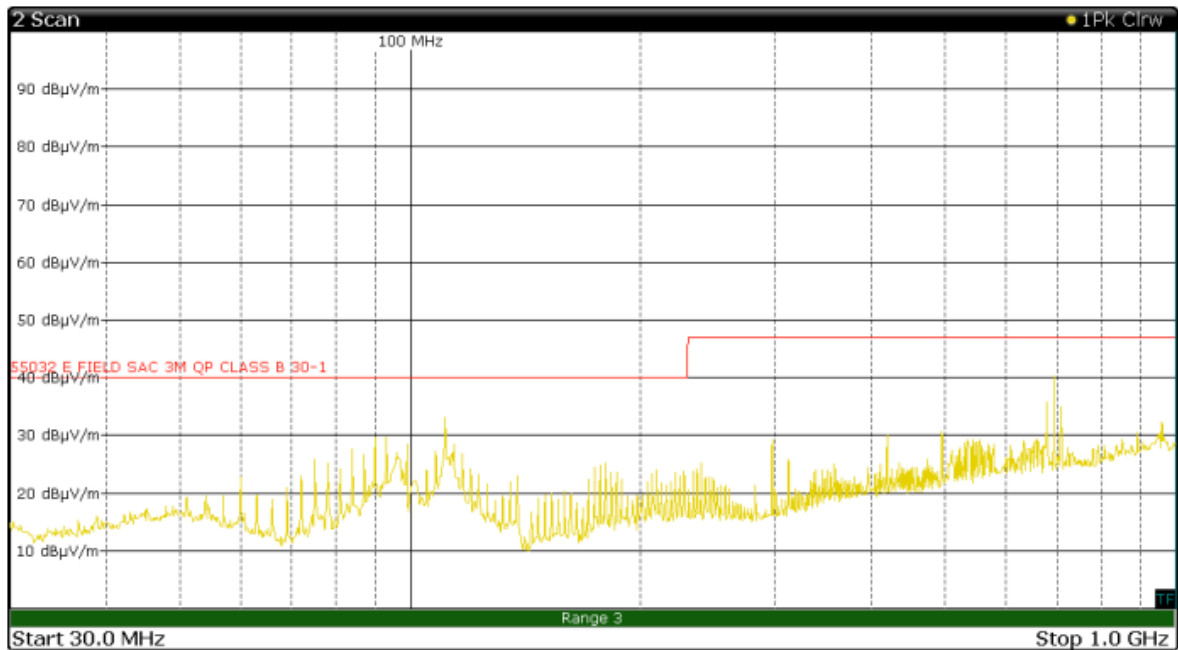
PCLK: 51.0 MHz

Device and test settings: Same settings as subchapter 4.3 presented.

### Horizontal:

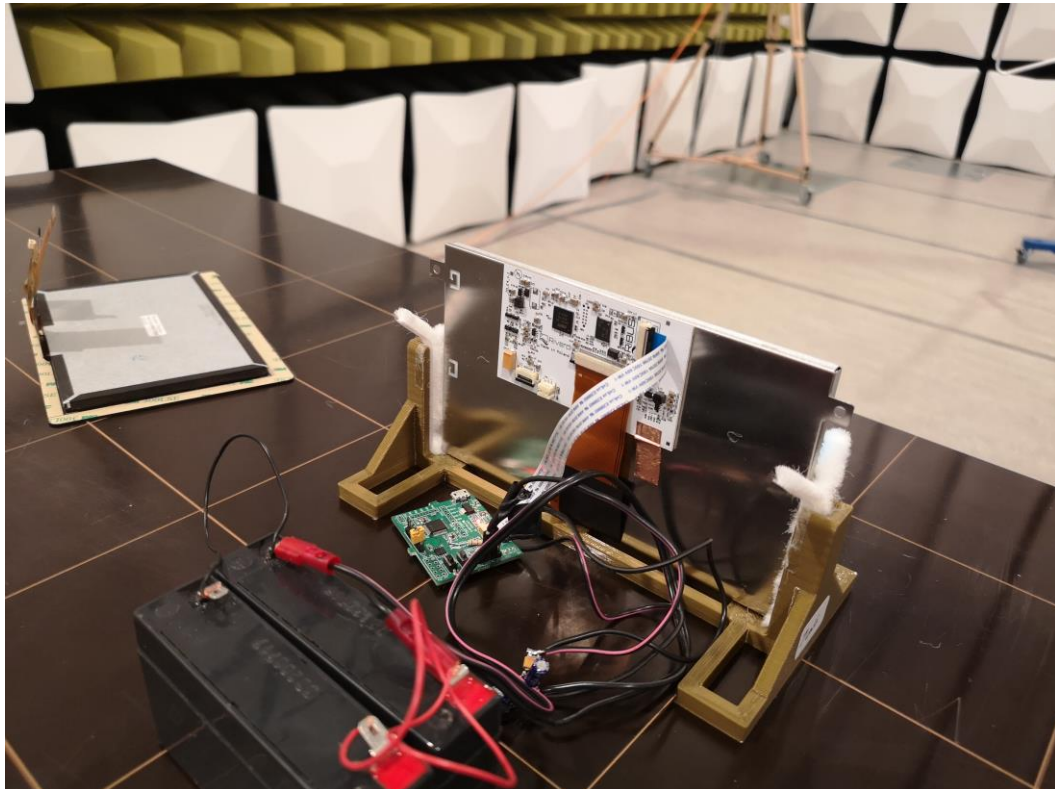


### Vertical:



## 6. Photos

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





## 7. Summary

The test results confirmed the low electromagnetic emissions of Riverdi EVE4 modules, even when displaying dynamic pictures.

Riverdi EVE4 modules produce low electromagnetic interference (EMI) to the surrounding space. In consequence, external electronic devices or circuits do not need special electromagnetic screening.

Hi, I am here to help you!  
If you have any additional  
questions, please contact  
our support via email:  
[contact@riverdi.com](mailto:contact@riverdi.com)

