

## 1 Certificate

**Product:** Network Switch

**Brand:** RADWARE or 

**Test Model:** ODS-VL3

**Sample Status:** Engineering sample

**Applicant:** Radware Ltd.

**Test Date:** 2024/1/18 ~ 2024/4/16

**Standard:** EN 55032: 2015+A11:2020, Class A  
BS EN 55032: 2015+A11:2020, Class A  
EN 61000-3-2: 2014, Class A  
EN IEC 61000-3-2: 2019+A1:2021, Class A  
BS EN IEC 61000-3-2: 2019+A1:2021, Class A  
EN 61000-3-3: 2013  
BS EN 61000-3-3: 2013  
EN 61000-3-3: 2013+A1:2019+A2:2021  
BS EN 61000-3-3: 2013+A1:2019+A2:2021  
EN 55035: 2017+A11:2020  
BS EN 55035: 2017+A11:2020

**Measurement procedure:** EN 61000-4-2: 2009 / IEC 61000-4-2: 2008 ED. 2.0  
BS EN 61000-4-2: 2009  
EN IEC 61000-4-3: 2020 / IEC 61000-4-3: 2020 ED. 4.0  
BS EN IEC 61000-4-3: 2020  
EN 61000-4-4: 2012 / IEC 61000-4-4: 2012 ED. 3.0  
BS EN 61000-4-4: 2012  
EN 61000-4-5: 2014+A1:2017 / IEC 61000-4-5: 2017 ED. 3.1  
BS EN 61000-4-5: 2014+A1:2017  
EN 61000-4-6: 2014+AC:2015 / IEC 61000-4-6: 2013 ED. 4.0  
BS EN 61000-4-6: 2014  
EN 61000-4-8: 2010 / IEC 61000-4-8: 2009 ED. 2.0  
BS EN 61000-4-8: 2010  
EN IEC 61000-4-11: 2020+AC:2020 / IEC 61000-4-11: 2020 ED. 3.0  
BS EN IEC 61000-4-11: 2020+AC:2020

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

## 2 Summary of Test Results

The test items that the EUT need to perform in accordance with its interfaces, evaluated functions, are as follows:

Standard	Test Item	Result	Remark
EN 55032	Conducted Emissions from Power Ports	Pass	Minimum passing Class A margin is -6.55 dB at 0.47400 MHz
EN 55032	Conducted Emissions from Wired Network Ports	Pass	Minimum passing Class A margin is -27.13 dB at 3.03400 MHz
EN 55032	Radiated Emissions up to 1 GHz	Pass	Minimum passing Class A margin is -9.62 dB at 209.00 MHz
EN 55032	Radiated Emissions above 1 GHz	Pass	Minimum passing Class A margin is -11.40 dB at 2382.16 MHz
EN 61000-3-2 EN IEC 61000-3-2	Harmonic Current Measurement	Pass	The power consumption of EUT is less than 75W and no limits are applied.
EN 61000-3-3	Voltage Fluctuations and Flicker Measurement	Pass	$P_{st} \leq 1.00$ $d_{max} \leq 4.00\%$ $P_{lt} \leq 0.65$ $d_c \leq 3.30\%$ $T_{max} \leq 500$ ms
IEC 61000-4-2	Electrostatic Discharges (ESD)	Pass	For EN 55035 Performance Criteria A
IEC 61000-4-3	Radio Frequency Electromagnetic Field (RS)	Pass	For EN 55035 Performance Criteria A
IEC 61000-4-4	Fast Transients Common Mode (EFT)	Pass	For EN 55035 Performance Criteria A
IEC 61000-4-5	Surges	Pass	For EN 55035 Performance Criteria A
IEC 61000-4-6	Radio Frequency Common Mode (CS)	Pass	For EN 55035 Performance Criteria A
IEC 61000-4-8	Power Frequency Magnetic Field (PFMF)	Pass	For EN 55035 Performance Criteria A
IEC 61000-4-11	Voltage Dips and Interruptions (DIP)	Pass	For EN 55035 <b>For Voltage Dips:</b> < 5% Residual, 0.5 cycle Performance Criteria A 70% Residual, 25 cycle Performance Criteria A <b>For Voltage Interruptions:</b> < 5% Residual, 250 cycle Performance Criteria B

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

## 1 Certificate

**Product:** Network Switch

**Brand:** RADWARE or 

**Test Model:** ODS-VL3

**Sample Status:** Engineering sample

**Applicant:** Radware Ltd.

**Test Date:** 2024/1/18 ~ 2024/4/16

**Standard:** EN 300 386 V2.1.1 (2016-07)

**Measurement procedure:** EN 55032: 2015+A11:2020, Class A  
EN 61000-3-2: 2014, Class A  
EN IEC 61000-3-2: 2019+A1:2021, Class A  
EN 61000-3-3: 2013+A1:2019+A2:2021  
EN 61000-4-2: 2009  
EN IEC 61000-4-3: 2020  
EN 61000-4-4: 2012  
EN 61000-4-5: 2014+A1:2017  
EN 61000-4-6: 2014+AC:2015

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

## 2 Summary of Test Results

The test items that the EUT need to perform in accordance with its interfaces, evaluated functions, are as follows:

Standard	Test Item	Result	Remark
EN 55032	Conducted Emissions from Power Ports	Pass	Minimum passing Class A margin is -6.55 dB at 0.47400 MHz
EN 55032	Conducted Emissions from Wired Network Ports	Pass	Minimum passing Class A margin is -27.13 dB at 3.03400 MHz
EN 55032	Radiated Emissions up to 1 GHz	Pass	Minimum passing Class A margin is -9.62 dB at 209.00 MHz
EN 55032	Radiated Emissions above 1 GHz	Pass	Minimum passing Class A margin is -11.40 dB at 2382.16 MHz
EN 61000-3-2 EN IEC 61000-3-2	Harmonic Current Measurement	Pass	The power consumption of EUT is less than 75W and no limits are applied.
EN 61000-3-3	Voltage Fluctuations and Flicker Measurement	Pass	$P_{st} \leq 1.00$ $d_{max} \leq 4.00\%$ $P_{lt} \leq 0.65$ $d_c \leq 3.30\%$ $T_{max} \leq 500$ ms
EN 61000-4-2	Electrostatic Discharges (ESD)	Pass	For EN 300 386 Performance Criteria A
EN IEC 61000-4-3	Radio Frequency Electromagnetic Field (RS)	Pass	For EN 300 386 Performance Criteria A
EN 61000-4-4	Fast Transients Common Mode (EFT)	Pass	For EN 300 386 Performance Criteria A
EN 61000-4-5	Surges	Pass	For EN 300 386 Performance Criteria A
EN 61000-4-6	Radio Frequency Common Mode (CS)	Pass	For EN 300 386 Performance Criteria A

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.