

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200138-0

HP Inc. Product Test Lab San Diego
San Diego, CA

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Electromagnetic Compatibility & Telecommunications

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2017-03-21 through 2018-03-31

Effective Dates

A handwritten signature in dark ink, appearing to read "John S. Lamm".

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

HP Inc. Product Test Lab San Diego

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**ELECTROMAGNETIC
COMPATIBILITY &
TELECOMMUNICATIONS**

NVLAP LAB CODE 200138-0

Emissions

Designation

IEC/CISPR 22 (1997) & EN 55022
(1998) + A1(2000)

EN 55022 (2006) + A1 (2007)

IEC/CISPR 22 (1993) and EN
55022 (1994)

CNS 13438 (1997)

IEC/CISPR 22, Edition 5 (2005) +
A1(2005) + A2 (2006)

CNS 13438 (2006) (up to 6GHz)

IEC/CISPR 22, Edition 5 (2005-04)
and EN 55022 (2006)

EN 55022 (2010)

Description

Limits and methods of measurement of radio disturbance characteristics of information technology equipment

Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement

Limits and methods of measurement of radio disturbance characteristics of information technology equipment, Amendment 1 (1995) and Amendment 2 (1996)

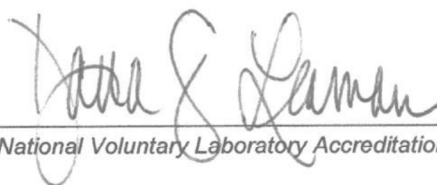
Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment

Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement

Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment

Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment

Information technology equipment. Radio disturbance characteristics. Limits and methods of measurement



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IEC/CISPR 22 Ed. 6.0 (2008-09)	Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment
CISPR 32, Ed. 1 (2012-01)	Electromagnetic compatibility of multimedia equipment - Emission requirements
EN 55032 (2012-05)	Electromagnetic compatibility of multimedia equipment. Emission requirements
EN 55032 (2012) + AC (2013)	Electromagnetic compatibility of multimedia equipment. Emission requirements
CISPR 32 (2015)	Electromagnetic compatibility of multimedia equipment - Emission requirements
EN 55032 (2015)	Electromagnetic compatibility of multimedia equipment. Emission Requirements
EN 61000-3-2 (2014)	Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current = 16 A per phase)
IEC 61000-3-2, Ed. 4.0 (2014-05)	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current = 16 A per phase)
EN 61000-3-3 (2013)	EMC - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
IEC 61000-3-3 Ed. 3.0 (2013-05)	(EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current 16 A per phase and not subject to conditional connection
ANSI C63.4 (2003)	Unintentional Radiators in 47 CFR FCC Part 15, Subpart B
ANSI C63.4 (2014)	Unintentional Radiators in 47 CFR FCC Part 15, Subpart B
ANSI C63.4 (2009)	Unintentional Radiators in 47 CFR FCC Part 15, Subpart B
ICES-003 Issue 5 (2012)	Information Technology Equipment (ITE) - Limits and methods of measurement
ICES-003 Issue 6 (2016)	Information Technology Equipment (ITE) - Limits and methods of measurement
AS/NZS CISPR 22 (2004)	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
Agreement of VCCI V-3 (2008.04)	Agreement of Voluntary Control Council for Interference by Information Technology Equipment - Technical Requirements: V-3/2008.04
Agreement of VCCI V-3 (2009.04)	Agreement of Voluntary Control Council for Interference by Information Technology Equipment - Technical Requirements: V-3/2009.04 (radiated disturbance above 1 GHz)
Agreement of VCCI V-3 (2010.04)	Agreement of VCCI Council - Technical Requirements: V-3/2010.04 (including radiated disturbance above 1 GHz)
Agreement of VCCI V-3 (2011.04)	Agreement of VCCI Council - Technical Requirements: V-3/2011.04 (including radiated disturbance above 1 GHz)

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Agreement of VCCI V-3 (2013.04)	Agreement of VCCI Council - Technical Requirements: V-3/2013.04 (including radiated disturbance above 1 GHz)
Agreement of VCCI V-3 (2014.04)	Agreement of VCCI Council - Technical Requirements: V-3/2014.04 (including radiated disturbance above 1 GHz)
Agreement of VCCI V-3 (2015.04)	Agreement of VCCI Council - Technical Requirements: V-3/2015.04 (including radiated disturbance above 1 GHz)

Energy Star

Designation

IEC 62301 ed1.0 (2005)

IEC 62301 ed 2.0 (2011)

Test Method for Calculating Energy Efficiency (August 2004)

Power Supply Efficiency

ENERGY STAR Imaging Equipment Test Method Version 1.2

ENERGY STAR Imaging Equipment Test Method Version 2.0

Description

Household electrical appliances - Measurement of standby power

Household electrical appliances - Measurement of standby power

Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies

Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Rev 6.5

ENERGY STAR Program Requirements Product Specification for Imaging Equipment Test Method Version 1.2

ENERGY STAR Program Requirements Product Specification for Imaging Equipment-Test Method for Determining Imaging Equipment Energy Use Version 2.0

Immunity

Designation

IEC/CISPR 24 (1997) and EN 55024 (1998) + A1(2001), A2(2003)

CISPR 24 ed2.0 (2010-08)

EN 55024 (2010)

IEC 61000-4-2 (1995), A1(1998), A2(2000); EN 61000-4-2(1995)

IEC 61000-4-2 (2001); EN 61000-4-2 (2001), A2 (2001)

EN 61000-4-2 +A1(1998) +A2(2001)

IEC 61000-4-2, Ed. 2.0 (2008-12)

Description

Information technology equipment - Immunity characteristics - Limits and methods of measurement

Information technology equipment - Immunity characteristics - Limits and methods of measurement

Information technology equipment. Immunity characteristics. Limits and methods of measurement

ESD Immunity Test

Electrostatic Discharge Immunity Test

Electrostatic Discharge Immunity Test

Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test



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EN 61000-4-2 (2009-05)	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test
IEC 61000-4-3 (1995), A1(1998), A2(2000)	Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-3 (1996), A1(1998), A2 (2001)	Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-3, Ed. 3.0 (2006-02)	Electromagnetic compatibility (EMC) - Part 4-3: Testing measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-3, Ed. 3.0 (2006-02) + A1 (2007) + A2 (2010)	Electromagnetic compatibility (EMC) - Part 4-3: Testing measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-3 (2006)	Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-3 (2006) +A1 (2008) + A2 (2010)	Electromagnetic compatibility (EMC). Testing and measurement techniques. Radiated, radio- Frequency, electromagnetic field immunity test
IEC 61000-4-3, Ed. 3.1 (2008-04)	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-4(1995), A1(2000), A2(2001); EN 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical Fast Transient/Burst Immunity Test
EN 61000-4-4 (1995), A1(2001), A2(2001)	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical Fast Transient/Burst Immunity Test
IEC 61000-4-4, Ed. 2.0 (2004-07)	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test
EN 61000-4-4 (2004)	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test
IEC 61000-4-5(1995),A1(2000); EN 61000-4-5(1995),A1(2001)	Surge Immunity Test
IEC 61000-4-5, Ed. 2.0 (2005-11); EN 61000-4-5	Electromagnetic Compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test
IEC 61000-4-6 (1996),A1(2000); EN 61000-4-6(1996),A1(2001)	Immunity to Conducted Disturbances, Induced by Radio Frequency Fields
IEC 61000-4-6, Ed. 2.1 (2004); EN 61000-4-6	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
IEC 61000-4-6 Ed. 3.0 (2008)	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-6 (2009)	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields

**ELECTROMAGNETIC COMPATIBILITY
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EN 61000-4-11 (2004)

Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests

IEC 61000-4-11 (2004)

Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests

Radio

Designation

ETSI EN 301 489-1 V1.8.1
(2008-04)

Description

ERM; ElectroMagnetic Compatibilty (EMC); Standard for Radio Equipment and Services; Part 1: Common Technical Requirements

Excluding Section 9.2 and 9.6

ETSI EN 301 489-1 V1.9.2
(2011-09)

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

ETSI EN 301 489-17 v1.3.2
(2008-04)

Electromagnetic compatibility and Radio spectrum Matters (ERM); EMC standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

ETSI EN 301 489-17 V2.1.1:2009

Electromagnetic compatibility and Radio spectrum Matters (ERM); EMC standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems

ETSI EN 301 489-17 V2.2.1
(2012-09)

(ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems