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## » ILAC MRA SIGNATORY CONTACT DETAILS



**Name :**

Coordenacao Geral de Acreditacao, General Coordination for Accreditation

**Acronym :**

CGCRE

**Membership Category :**

Full Member (ILAC MRA signatory)

**Economy :**

BRAZIL

**ILAC MRA Scope: :**

Calibration: ISO/IEC 17025	02 Nov 2000
Testing: ISO/IEC 17025	02 Nov 2000
Medical Testing: ISO 15189	02 Nov 2000
Inspection: ISO/IEC 17020	27 Feb 2013

**Phone :**

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**Fax :**

+55 21 2563 2836

**Email :**

cgcre@inmetro.gov.br (mailto:cgcre@inmetro.gov.br)

**Website :**

<http://www.inmetro.gov.br/credenciamento> (<http://www.inmetro.gov.br/credenciamento>)

**Accredited Facilities :**

<http://www.inmetro.gov.br/laboratorios/> (<http://www.inmetro.gov.br/laboratorios/>)

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## » ILAC MRA SIGNATORY CONTACT DETAILS



**Name :**

National Voluntary Laboratory Accreditation Program

**Acronym :**

NVLAP

**Membership Category :**

Full Member (ILAC MRA signatory)

**Economy :**

UNITED STATES OF AMERICA

**ILAC MRA Scope: :**

Calibration: ISO/IEC 17025

02 Nov 2000

Testing: ISO/IEC 17025

02 Nov 2000

**Phone :**

1 301 975 4016

**Fax :**

1 301 926 2884

**Email :**

[nvlap@nist.gov](mailto:nvlap@nist.gov) (<mailto:nvlap@nist.gov>)

**Website :**

<http://www.nist.gov/nvlap> (<http://www.nist.gov/nvlap>)

**Accredited Facilities :**

<http://ts.nist.gov/Standards/scopes/programs.htm>  
(<http://ts.nist.gov/Standards/scopes/programs.htm>)

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## ..: Reconhecimentos Internacionais ..:

A Coordenação Geral de Acreditação do Inmetro (Cgcre), juntamente com organismos de acreditação congêneres de outros países, vem buscando estabelecer, por meio de cooperações regionais e internacionais de organismos de acreditação, acordos que possam promover a confiança daqueles que se utilizam dos resultados de ensaios e calibrações, assim como dos certificados emitidos por organismos de certificação acreditados para sistemas de gestão e produtos.

Os acordos de reconhecimento mútuo entre organismos de acreditação são uma das formas mais efetivas de facilitar a eliminação da necessidade de re-ensaio de materiais e de produtos nos países importadores, problema identificado pela Organização Mundial do Comércio (OMC) como uma das maiores barreiras técnicas ao comércio.

Como signatária dos Acordos de Reconhecimento Mútuo (MLA), a Cgcre reconhece as práticas de outros sistemas de acreditação como equivalentes àquelas do seu próprio sistema, no âmbito do respectivo MLA.

Com estes acordos, os certificados e relatórios emitidos por organismos de avaliação da conformidade (OAC) acreditados pela Cgcre passam a ser aceitos pelos demais organismos de acreditação signatários. De igual modo, a Cgcre recomenda a aceitação dos certificados e relatórios emitidos por OAC acreditados por outros signatários, pois reconhece que estes possuem um sistema de acreditação que funciona nas mesmas bases do sistema da Cgcre.

Os acordos de reconhecimento mútuo entre organismos de acreditação serão, cada vez mais, ferramentas facilitadoras do comércio e uma base técnica para os acordos de comércio exterior entre os governos.

A Cgcre mantém os seguintes acordos de reconhecimentos:

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### International Laboratory Accreditation Cooperation - ILAC

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A Cgcre é signatária do acordo multilateral com a ILAC para laboratórios de ensaios e calibração desde 2000 e para organismos de inspeção desde 2013.

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### Interamerican Accreditation Cooperation - IAAC

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A Cgcre é signatária do acordo multilateral com a IAAC para acreditação de:

- Laboratórios de ensaios e calibração desde 2002;
- Organismos de certificação de sistemas de gestão da qualidade desde 2002;
- Organismos de certificação de produtos desde 2009;
- Organismos de certificação sistema de gestão ambiental desde 2009;
- Organismos de inspeção desde 2013.

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### International Accreditation Forum - IAF

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A Cgcre é signatária do acordo multilateral com o IAF para acreditação de organismos de certificação de sistemas de gestão da qualidade desde 1999 e para sistemas de gestão ambiental desde 2005 e como organismo de acreditação de organismos de certificação de produtos desde 2009.

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### American Aerospace Quality Group - AAQG

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A Cgcre é reconhecida pela AAQG para acreditação de organismos de certificação de sistemas de gestão da qualidade aeroespacial desde 2002.

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### Program for the Endorsement of Forest Certification Schemes - PEFC

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A Cgcre é reconhecida pelo PEFC para acreditação de organismos de certificação de sistemas de gestão florestal desde 2005.

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### The Global Partnership for Good Agricultural Practice - Globalgap

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A Cgcre é reconhecida pelo Globalgap para acreditação de organismos de certificação de produtos para os escopos de frutas e vegetais, segurança integrada de fazenda (IFA - em inglês), flores e plantas ornamentais, café e sistema integrado de piscicultura desde 2002.

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### Environmental Protection Agency - EPA

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A Cgcre é reconhecida pela Environmental Protection Agency (EPA) para acreditação de laboratórios de ensaios de produtos qualificados pelo Programa Energy Star, desde 2010.

ABOUT ENERGY STAR PARTNER RESOURCES

**EPA-Recognized Laboratory Accreditation**  
The simple choice for energy efficiency.

**Bodies**

ENERGY EFFICIENT **products** ENERGY SAVINGS **at home** ENERGY EFFICIENT **new homes** ENERGY STRATEGIES FOR **buildings & plants**

Name	Location	Web site
American Association for Laboratory Accreditation (A2LA)	Maryland, USA	<a href="http://www.a2la.org">www.a2la.org</a> 
ANSI-ASQ National Accreditation Board (ACLASS)	Virginia, USA	<a href="http://www.aiclasscorp.com">www.aiclasscorp.com</a> 
National Institute of Metrology, Standardization and Industrial Quality (INMETRO)	Brazil	<a href="http://www.inmetro.gov.br/english">www.inmetro.gov.br/english</a> 
China National Accreditation Service for Conformity Assessment (CNAS)	China	<a href="http://eng.cnas.org.cn">eng.cnas.org.cn</a> 
Dutch Accreditation Council (RvA)	The Netherlands	<a href="http://www.rva.nl/home">www.rva.nl/home</a> 
Entidad Nacional de Acreditación (ENAC)	Spain	<a href="http://www.enac.es">www.enac.es</a> 
French Accreditation Committee (COFRAC)	France	<a href="http://www.cofrac.fr">www.cofrac.fr</a> 
German Accreditation Service (DAKKS)	Germany	<a href="http://www.dakks.de">www.dakks.de</a> 
Guatemalan Accreditation Body (OGA)	Guatemala	<a href="http://www.oga.org.gt/home.html">www.oga.org.gt/home.html</a> 
Hong Kong Accreditation Service	Hong Kong, China	<a href="http://www.itc.gov.hk/en/quality/hkas/about.htm">http://www.itc.gov.hk/en/quality/hkas/about.htm</a> 
International Accreditation Japan (IAJapan)	Japan	<a href="http://www.iajapan.nite.go.jp/iajapan/en">www.iajapan.nite.go.jp/iajapan/en</a> 
International Accreditation Service, Inc (IAS)	California, USA	<a href="http://www.iasonline.org">www.iasonline.org</a> 
Japan Accreditation Board (JAB)	Japan	<a href="http://www.jab.or.jp/en">www.jab.or.jp/en</a> 
Korea Laboratory Accreditation Scheme (KOLAS)	Republic of Korea	<a href="http://www.kolas.go.kr/english">www.kolas.go.kr/english</a> 
Laboratory Accreditation Bureau (L-A-B)	Indiana, USA	<a href="http://www.l-a-b.com">www.l-a-b.com</a> 
National Accreditation Board for Testing and Calibration Laboratories (NABL)	India	<a href="http://www.nabl-india.org">www.nabl-india.org</a> 
National Voluntary Laboratory Accreditation Program (NVLAP)	Maryland, USA	<a href="http://www.nist.gov">www.nist.gov</a> 
Perry Johnson Laboratory Accreditation, Inc. (PJLA)	Michigan, USA	<a href="http://www.pjlabs.com">www.pjlabs.com</a> 
Singapore Accreditation Council (SAC)	Singapore	<a href="http://www.sac-accreditation.gov.sg">www.sac-accreditation.gov.sg</a> 
Sistema Italiano di Accreditamento (ACCREDIA)	Italy	<a href="http://www.accredia.it">www.accredia.it</a> 
Standards Council of Canada (SCC)	Canada	<a href="http://www.scc-ccn.ca">www.scc-ccn.ca</a> 
Swedish Board for Accreditation and Conformity Assessment (SWEDAC)	Sweden	<a href="http://www.swedac.se/en">www.swedac.se/en</a> 
Taiwan Accreditation Foundation (TAF)	Taiwan	<a href="http://www.taftw.org.tw">www.taftw.org.tw</a> 
United Kingdom Accreditation Service (UKAS)	United Kingdom	<a href="http://www.ukas.com">www.ukas.com</a> 
Voluntary EMC Laboratory Accreditation Center Inc. (VLAC)	Japan	<a href="http://www.vlac.co.jp/english/lab/index.html">www.vlac.co.jp/english/lab/index.html</a> 

#### Energy Efficient Products

Find ENERGY STAR Products

Energy Savings at Home

Take the Pledge

Learn about Climate Change

#### Energy Savings At Home

Start Saving Now

Take the Pledge

Home Assessment Tools

Seal and Insulate Your Home

Learn about ENERGY STAR Products

Learn about Home Performance with ENERGY STAR

#### Energy Efficient New Homes

Find Builders and Incentives

Home Features and Benefits

Homeowner Testimonials

Resources for Partners

#### Energy Strategies for Buildings & Plants

Facility Owners & Managers

Service Providers

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United States Department of Commerce  
National Institute of Standards and Technology



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**Certificate of Accreditation to ISO/IEC 17025:2005**

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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).*

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2017-03-21 through 2018-03-31

*Effective Dates*

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

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*For the National Voluntary Laboratory Accreditation Program*

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**HP Inc. Product Test Lab San Diego**

16399 W. Bernardo Drive

San Diego, CA 92127-1899

Mr. Frank Kozakiewicz

Phone: 858-655-8539

Email: frank.kozakiewicz@hp.com

**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)

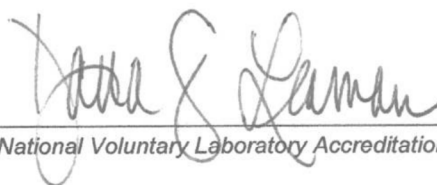
Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment

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



*For the National Voluntary Laboratory Accreditation Program*





## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 200138-0

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 $\leq$ 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)

**ELECTROMAGNETIC COMPATIBILITY  
& TELECOMMUNICATIONS**

**NVLAP LAB CODE 200138-0**

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



## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 200138-0

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  
& TELECOMMUNICATIONS**

**NVLAP LAB CODE 200138-0**

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