

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-12158-02-01  
according to ISO/IEC 17025:2005

Period of validity: 2019-01-23 to 2021-03-30 Date of issue: 2019-01-21

Holder of certificate:

**TÜV Rheinland Korea Ltd.**  
**Test Center, Safety of Electrical Appliances and Ergonomics Laboratory**  
**Young City, N-Tower, 25, Mullaero 28-gil**  
**Yeongdeungpo-gu**  
**SEOUL 07298**  
**REPUBLIC OF KOREA**

Tests in the fields:

**Safety of Electrical Appliances and Ergonomics**

**The laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standard test methods listed here with different issue dates or revision status updates.**

**The testing laboratory maintains a current list of all testing within the flexible scope of accreditation.**

Department	Standard / in house procedure / Version	Title of standard or in house procedure (Deviations / Modifications of standard)	Test area / Reductions
Safety of electrical equipment	IEC 60950-1:2005, modifiziert+Cor.:2006 +A1:2009, modifiziert+A1:2009/C or.:2012 +A2:2013 EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011 + A2:2013 DIN EN 60950-1 : 2014-08 VDE 0805-1 : 2014-08 AS/NZS 60950.1:2015	Information technology equipment – Safety – Part 1: General requirements.	
	EN 41003:2008 DIN EN 41003:2009 VDE 0804-100:2009	Particular safety requirements for equipment to be connected to telecommunication networks and/or a cable distribution system.	
	IEC 62040-1:2008, modifiziert+Cor.:2008 +A1:2013 EN 62040-1:2008 +A1:2013 DIN EN 62040-1: 2013-11 VDE 0558-510:2013-11	Uninterruptible power systems (UPS) – Part 1: General and safety requirements for UPS	Only single phase equipment, max. power 20 kW
Safety of electrical equipment	IEC 60065:2014, modifiziert+Cor.:2015 IEC 60065:2001, modifiziert+Cor.:2002 +A1:2005 +A2:2010 EN 60065:2002 + A1:2006 +A11:2008 +A2:2010 +A12:2011 EN 60065:2014 DIN EN 60065:2015-11; VDE 0860:2015-11 AS/NZS 60065:2012	Audio, video and similar electronic apparatus – Safety requirements.	

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	IEC 61010-1:2010, modifiziert+Cor.:2011, modifiziert+Cor.:2013 IEC 61010-1:2010+A1:2016 EN 61010-1:2010 DIN EN 61010-1:2011 VDE 0411-1:2011	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements.	
	IEC 61010-031:2015 IEC 61010-031:2002 +A1:2008 EN 61010-031:2002 +A1:2008 DIN EN 61010-031:2008 VDE 0411-031:2008	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test.	
	IEC 61010-2-032:2012 EN 61010-2-032:2012 DIN EN 61010-2-032:2012 VDE 0411-2-032:2012	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-032: Particular requirements for hand-held and hand manipulated current sensors for electrical test and measurement.	
Safety of electrical equipment	IEC 61010-2-101:2002 (ed.1) IEC 61010-2-101:2015 (ed.2) EN 61010-2-101:2002 DIN EN 61010-2-101:2013 VDE 0411-2-101:2013	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	

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	IEC 60335-1:1991 IEC 60335-1:2010, modifiziert+Cor.:2010, modifiziert+Cor.:2011 +A1:2013, modifiziert+A1:2013/C or.:2014 IEC 60335- 1:2010/A2:2016 EN 60335-1:2012+A11 EN 60335-1: A12:2017+A13:2017  DIN EN 60335-1: 2014-11 VDE 0700-1: 2014-11 AS/NZS 3350.1:2002 +A1 +A2 +A3 +A4 AS/NZS 60335.1:2011 +A1:2012+A2:2014+A 3:2015+A4:2017	Household and similar electrical appliances – Safety – Part 1: General requirements.	
Safety of electrical equipment	IEC 60335-2-2:2009 +A1:2012 +A2:2016 EN 60335-2- 2:2010+A11 +A1:2013 DIN EN 60335-2- 2:2014+A2:2015 VDE 0700-2: 2014+A1:2015	Household and similar electrical appliances – Safety – Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances.	
	IEC 60335-2- 4:2008+A1:2012+A2:2 017 EN 60335-2- 4:2010+A1:2015 DIN EN 60335-2- 4:2015+A1:2016+A2:2 017 VDE 0700- 4:2015+A1:2016+A2:2 017	Household and similar electrical appliances – Safety – Part 2-4: Particular requirements for spin extractors.	

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	IEC 60335-2-5:2012+A1:2018 EN 60335-2-5:2003 + A1:2005 + A2:2007 + A11:2012 +A12:2012 EN 60335-2-5:2015 DIN EN 60335-2-5:2015+A1:2017 VDE 0700-5:2015+A1:2017 AS/NZS 60335.2.5:2014 A1	Household and similar electrical appliances – Safety – Part 2-5: Particular requirements for dishwashers.	
Safety of electrical equipment	IEC 60335-2-6:2014 IEC 60335-2-6:2014+A1:2018 EN 60335-2-6:2003 + A1 + A2 + A11:2011 +A12:2012 +A13:2013 EN 60335-2-6:2015 DIN EN 60335-2-6:2013 DIN EN 60335-2-6:2016+A1:2017 VDE 0700-6:2013 VDE 0700-6:2016+A1:2017 AS/NZS 60335.2.6:2014 A1:2015	Household and similar electrical appliances – Safety – Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances.	
	IEC 60335-2-7:2008 + A1:2011, modifiziert+A1:2011/C or.:2012 + A2:2016 EN 60335-2-7:2010 + A1+A11 DIN EN 60335-2-7:2014+A2:2015 VDE 0700-7:2014+A2:2015 AS/NZS 60335.2.7:2012 +A1+A2	Household and similar electrical appliances – Safety – Part 2-7: Particular requirements for washing machines.	Excluding ageing test for elastomeric parts according to annex BB.

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Safety of electrical equipment	IEC 60335-2-9:2008+A1:2012, modifiziert+A1:2012/C or.:2013 + A2:2016 EN 60335-2-9:2003 + A1 + A2 + A12 + A13/ AC:2012 DIN EN 60335-2-9:2011+A1:2012+A2:2015 VDE 0700-9:2011+A1:2012+A2:2015 AS/NZS 60335.2.9:2014 A3	Household and similar electrical appliances – Safety – Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances.	
	IEC 60335-2-11:2008+A1:2012+A2:2015 EN 60335-2-11:2010 +A11 EN 60335-2-11:2010 +A1:2015 DIN EN 60335-2-11:2015+A2:2015 VDE 0700-11:2015 + A2:2015	Household and similar electrical appliances – Safety – Part 2-11: Particular requirements for tumble dryers.	
	IEC 60335-2-13:2009 +A1:2016 EN 60335-2-13:2010 +A11+ A12:2016 DIN EN 60335-2-13:2013+ A1:2015 VDE 0700-13:2013 + A1:2015	Household and similar electrical appliances – Safety – Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances.	

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Safety of electrical equipment	IEC 60335-2-14:2006 + A1:2008 +A2:2012 IEC 60335-2-14:2016 EN 60335-2-14:2006 + A1 + A11+ A12:2016 DIN EN 60335-2-14:2012 DIN EN 60335-2-14:2017 VDE 0700-14:2012 VDE 0700-14:2017	Household and similar electrical appliances – Safety – Part 2-14: Particular requirements for kitchen machines.	
	IEC 60335-2-15:2012 + A1:2016 EN 60335-2-15:2002 + A1 + A2 + A11 EN 60335-2-15:2016 DIN EN 60335-2-15:2012 DIN EN 60335-2-15:2016 VDE 0700-15:2012 VDE 0700-15:2016	Household and similar electrical appliances – Safety – Part 2-15: Particular requirements for appliances for heating liquids.	
	IEC 60335-2-21:2012+AMD1:2018 DIN EN 60335-2-21:2012 VDE 0700-21:2012	Household and similar electrical appliances - Safety - Part 2-21: Particular requirements for storage water heaters	
Safety of electrical equipment	IEC 60335-2-23:2003, modifiziert+Cor.:2004, modifiziert+Cor.:2008 + A1:2008 +A2:2012 IEC 60335-2-23:2016 EN 60335-2-23:2003 + A1 + A11 +A2 DIN EN 60335-2-23:2015 VDE 0700-23:2015	Household and similar electrical appliances – Safety – Part 2-23: Particular requirements for appliances for skin or hair care.	

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	IEC 60335-2-24:2010 +A1:2012 IEC 60335-2-24:2010 +A2:2017 EN 60335-2-24:2010 DIN EN 60335-2-24:2010+A1:2011+A2:2011+A3:2015+A4:2016 VDE 0700-24:2010+A1:2011+A2:2011+A3:2015+A4:2016 AS/NZS 60335.2.24:2010 A2:2018	Household and similar electrical appliances – Safety – Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers.	
	IEC 60335-2-25:2010+A1:2014+A2:2015 EN 60335-2-25:2012 +A1 +A2 DIN EN 60335-2-25:2012 VDE 0700-25:2012 AS/NZS 60335.2.25:2011 + A1:2015 + A2:2017	Household and similar electrical appliances – Safety – Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens.	
Safety of electrical equipment	IEC 60335-2-29:2002 + A1 + A2 IEC 60335-2-29:2016 EN 60335-2-29:2004 + A2 DIN EN 60335-2-29:2010 DIN EN 60335-2-29:2015 VDE 0700-29:2010 VDE 0700-29:2015	Household and similar electrical appliances – Safety – Part 2-29: Particular requirements for battery chargers.	



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	IEC 60335-2-30:2009 + A1:2016 modifiziert+Cor.:2014 EN 60335-2-30:2009 + A11 DIN EN 60335-2-30:2013 VDE 0700-30:2013	Household and similar electrical appliances – Safety – Part 2-30: Particular requirements for room heaters.	
	IEC 60335-2-34:2012+A1:2015 + A2:2016 EN 60335-2-34:2013 DIN EN 60335-2-34:2014+A1:2016+A2:2017 VDE 0700-34:2014+A1:2016+A2:2017	Household and similar electrical appliances – Safety – Part 2-34: Particular requirements for motor-compressors.	Excluding Annex AA: Running overload tests.
	IEC 60335-2-35:2012+A1:2016 EN 60335-2-35:2016 DIN EN 60335-2-35:2018 VDE 0700-35:2018	Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters	
Safety of electrical equipment	IEC 60335-2-40:1995 IEC 60335-2-40:2005 IEC 60335-2-40:2013+ A1:2016 IEC 60335-2-40:2018 EN 60335-2-40: 2003 + A11 + A12 + A1 + A2 + A13/AC:2013 DIN EN 60335-2-40:2014+A1:2016 VDE 0700-40:2014 +A1:2016 AS/NZS 60335.2.40:2015	Household and similar electrical appliances – Safety – Part 2-40: Particular requirements for electrical heat pumps, air conditioners and dehumidifiers.	

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	IEC 60335-2-45:2002 + A1 + A2 EN 60335-2-45:2002 + A1 + A2 DIN EN 60335-2-45:2012 VDE 0700-45:2012	Household and similar electrical appliances – Safety – Part 2-45: Particular requirements for portable heating tools and similar appliances.	
	IEC 60335-2-54:2008+A1 EN 60335-2-54:2008 +A11 + A1 DIN EN 60335-2-54:2013 VDE 0700-54:2013 DIN EN 60335-2-54:2017 VDE 0700-54:2017	Household and similar electrical appliances – Safety – Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam.	
Safety of electrical equipment	IEC 60335-2-64:2002 + A1:2017 + A2:2017 EN 60335-2-64:2000 + A1 DIN EN 60335-2-64:2001 + A1 DIN EN 60335-2-64:2017 VDE 0700-64:2001 + A1 DIN EN 60335-2-64:2015 VDE 0700-64:2017	Household and similar electrical appliances – Safety - Part 2-64: Particular requirements for commercial electric kitchen machines	
	IEC 60335-2-65:2002 + A1+A2 EN 60335-2-65:2003 + A1 +A11 DIN EN 60335-2-65:2013+A1:2014 VDE 0700-65:2013+A1:2014 AS/NZS 60335.2.65:2015	Household and similar electrical appliances – Safety – Part 2-65: Particular requirements for air-cleaning appliances.	Excluding Cl.23.101/Annex AA

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	IEC 60335-2-75:2012+A1 EN 60335-2-75:2004 +A1 +A11 +A2 +A12 DIN EN 60335-2-75:2010+A1 :2015 VDE 0700-75:2010+A1 :2015	Household and similar electrical appliances – Safety – Part 2-75: Particular requirements for commercial dispensing appliances and vending machines	
Safety of electrical equipment	IEC 60335-2-80:2015 EN 60335-2-80:2003 + A1 + A2 DIN EN 60335-2-80:2009 DIN EN 60335-2-80:2015 VDE 0700-80:2009 VDE 0700-80:2015 AS/NZS 60335.2.80:2016	Household and similar electrical appliances – Safety – Part 2-80: Particular requirements for fans.	
	IEC 60335-2-84:2002 + A1+A2 EN 60335-2-84:2003 + A1 DIN EN 60335-2-84:2009+A2:2013 VDE 0700-84:2009+A1:2013	Household and similar electrical appliances – Safety – Part 2-84: Particular requirements for toilets.	
	IEC 60335-2-98:2002 + A1 +A2 EN 60335-2-98:2003 + A1 + A2 DIN EN 60335-2-98:2009+A11:2013 VDE 0700-98:2009+A11:2013 AS/NZS 60335.2.98:2005/A2	Household and similar electrical appliances – Safety – Part 2-98: Particular requirements for humidifiers.	
	EN 50366:2003 +A1 DIN EN 50366:2006 VDE 0700-366:2006	Household and similar electrical appliances – electromagnetic fields – Methods for evaluation and measurement.	

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Safety of electrical equipment	IEC 60598-1:2014+A1:2017 IEC 60598-1:2014 modifiziert+Cor.:2005 IEC 60598-1:2008 EN 60598-1:2015+A1:2018 EN 60598-1:2015 EN 60598-1:2008 modifiziert+Cor.:2011 + A11:2009 DIN EN 60598-1:2018 DIN EN 60598-1:2012 DIN EN 60598-1:2009 VDE 0711-1:2018 VDE 0711-1:2012 VDE 0711-1:2009	Luminaires – Part 1: General requirements and tests.	
	IEC 60598-2-1: 1979 + A1:1987 EN 60598-2-1:1989 DIN VDE 0711-201:1991 VDE 0711-201:1991	Luminaires – Part 2: particular requirements – Section one: fixed general purpose luminaires.	
	IEC 60598-2-2:2011 EN 60598-2-2:2012 DIN EN 60598-2-2:2012 VDE 0711-2-2:2012	Luminaires – Part 2-2: Particular requirements – Recessed luminaires.	
	IEC 60598-2-3:2002 + A1:2011 EN 60598-2-3:2003 + A1:2011 DIN EN 60598-2-3:2011 VDE 0711-2-3:2011	Luminaires – Part 2-3: Particular requirements – Luminaires for road and street lighting.	

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Safety of electrical equipment	IEC 60598-2-4:2017 IEC 60598-2-4:1997 EN 60598-2-4:2018 EN 60598-2-4:1997 DIN EN 60598-2-4:2014 DIN EN 60598-2-4:1998 VDE 0711-2-4:2014 VDE 0711-2-4:1998	Luminaires – Part 2: Particular requirements – Section 4: Portable general purpose luminaires	
	IEC 60598-2-5:1998 IEC 60598-2-5:2015 EN 60598-2-5:1998 EN 60598-2-5:2015 DIN EN 60598-2-5:1999 +A1 DIN EN 60598-2-5:2016 VDE 0711-2-5:1999 +A1 VDE 0711-2-5:2016	Luminaires – Part 2-5: Particular requirements – Floodlights	
	IEC 60825-1:2014 EN 60825-1:2014 IEC 60825-1:2007 EN 60825-1:2007 DIN EN 60825-1:2015 VDE 0837-1:2015	Safety of laser products – Part 1: Equipment classification and requirements.	Wavelength range starting at 400 nm
	IEC 60968:2012 EN 60968:2013 DIN EN 60968: 2013 VDE 0715-6:2013	Self-ballasted lamps for general lighting services – Safety requirements.	

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Safety of electrical equipment	IEC 61347-1:2007 +A1:2010+A2:2012 IEC 61347-1:2015 IEC 61347-1:2015/A1:2017 EN 61347-1:2008 +A1:2011+A2:2013 EN 61347-1:2015 DIN EN 61347-1:2013 DIN EN 61347-1:2016 VDE 0712-30:2013 VDE 0712-30:2016	Lamp controlgear – Part 1: General and safety requirements.	
	IEC 61347-2-3:2011 EN 61347-2-3:2011 DIN EN 61347-2-3:2012 VDE 0712-33:2012	Lamp controlgear – Part 2-3: Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps.	Excluding ballasts for emergency lights.
	IEC 61347-2-13:2014 IEC 61347-2-13:2014 +A1:2016 EN 61347-2-13:2014 EN 61347-2-13:2014+A1:2017 DIN EN 61347-2-13:2015 DIN EN 61347-2-13:2017 VDE 0712-43:2015 VDE 0712-43:2017	Lamp controlgear – Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules.	
	IEC 61558-1:2005 + A1 EN 61558-1:2005 + A1 DIN EN 61558-1:2009 +A1 VDE 0570-1:2009 +A1	Safety of power transformers, power supplies, reactors and similar products – Part 1: General requirements and tests.	Excluding subclauses 14.2, 16.4, 16.4b, 19.12.3 (Annex K) and 26.3.
Safety of electrical equipment	IEC 61558-2-1:2007 EN 61558-2-1:2007 DIN EN 61558-2-1:2007 VDE 0570-2-1:2007	Safety of power transformers, power supplies, reactors and similar products – Part 2-1: Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications.	

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	IEC 61558-2-2:2007 EN 61558-2-2:2007 DIN EN 61558-2-2:2007 VDE 0570-2-2:2007	Safety of power transformers, power supplies, reactors and similar products – Part 2-2: Particular requirements and tests for control transformers and power supplies incorporating control transformers.	Excluding subclause 11.1.
	IEC 61558-2-4:2009 EN 61558-2-4:2009 DIN EN 61558-2-4:2009 VDE 0570-2-4:2009	Safety of power transformers, power supply units and similar – Part 2-4: Particular requirements for isolating transformers for general use.	
	IEC 61558-2-6:2009 EN 61558-2-6:2009 DIN EN 61558-2-6:2010 VDE 0570-2-6:2010	Safety of power transformers, power supply units and similar – Part 2-6: Particular requirements for safety isolating transformers for general use.	
	IEC 61558-2-7:2007 EN 61558-2-7:2007 DIN EN 61558-2-7:2008 VDE 0570 2-7:2008	Safety of power transformers, power supplies, reactors and similar products – Part 2-7: Particular requirements and tests for transformers and power supplies for toys.	Excluding subclause 16.101.
	IEC 62031:2018 IEC 62031:2008+ A1:2012 +A2:2014 EN 62031:2008+ A1:2013+A2:2015 DIN EN 62031:2013 VDE 0715-5:2013	LED modules for general lighting – Safety specifications.	
Safety of electrical equipment	IEC 62233:2005 EN 62233:2008 DIN EN 62233:2008 VDE 0700-366:2008	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.	
	IEC 62368-1:2014 EN 62368-1:2014 DIN EN 62368-1-100:2014 VDE 0868-1-100:2014	Audio/video, information and communication technology equipment – Part 1: Safety requirements.	

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	IEC 62560:2011 +A1:2015 EN 62560:2012 +A1:2015 DIN EN 62560:2016 VDE 0715-13:2016	Self-ballasted LED-lamps for general lighting services by voltage > 50 V – Safety specifications.	
	IEC 62776:2014 EN 62776:2015 DIN EN 62776:2012 VDE 0715-16:2012	Double-capped LED lamps designed to retrofit linear fluorescent lamps – Safety specifications	
	IEC 62384:2006 /A1:2009 EN 62384:2006 /A1:2009 DIN EN 62384:2007 VDE 0712-26:2010	DC or AC supplied electronic control gear for LED modules - Performance requirements	
	IEC 62471:2006 EN 62471:2008 DIN EN 62471:2009 VDE 0837-471:2009	Photobiological safety of lamps and lamp systems	
	IEC TR 62778:2012 IEC TR 62778:2014 DIN IEC/TR 62778:2014 DIN SPEC 42778:2014	Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires	
Safety of electrical equipment	NCh2027/2:2008 EN 50075:1998	Plug for household and similar general purposes – Flat non-rewireable plugs, 2,5 A 250 V, with cord for Class II equipment	(Only clause 7. Dimensions)
	IEC 60601-1:2005+A1:2012	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	
	IEC 62868:2014 EN 62868:2015 DIN EN 62868:2016 VDE 0715-18	Organic light emitting diode (OLED) panels for general lighting – Safety requirements	
Ergonomics	EK1 ITB2000:2017	Bases for GS-mark tests of IT Equipment in Combination with Visual Display Units.	



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	ISO 9241-307:2008 EN ISO 9241-307:2008 DIN EN ISO 9241-307:2009	Ergonomics of human-system interaction – Part 307: Analysis and compliance test methods for electronic visual displays.	
	ISO 9241-410:2008+A1	Ergonomics of human-system interaction – Part 410: Design criteria for physical input devices.	
	ISO/TS 9241-411:2012	Ergonomics of human-system interaction – Part 411: Evaluation methods for the design of physical input devices.	
	EN 50332-1:2013	Sound system equipment: Headphones and earphones associated with portable audio equipment – Maximum sound pressure level measurement methodology and limit considerations – Part 1: General method for "one package equipment"	
	EN 50332-2:2013	Sound system equipment: Headphones and earphones associated with portable audio equipment – Maximum sound pressure level measurement methodology and limit considerations – Part 2: Matching of sets with headphones if either or both are offered separately	