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## *Scope of Accreditation*

*Accredited conformity assessment body:*

**IDVORSKY LABORATORIES Ltd.**

**Serbia, Belgrade, Volgina 15**

Standard:

**SRPS ISO/IEC 17025:2017 (ISO/IEC 17025:2017)**

Short description of the scope:

- **Testing of electromagnetic compatibility**
- **Electrical and electronic testing**

***Disclaimer:***

*This is unofficial translation in English of the Scope of Accreditation of Idvorsky Laboratories issued in Serbian and valid from 01/09/2023 that can be found in the public Directory of Accredited Conformity Assessment Bodies governed by Accreditation Body of Serbia ([www.ats.rs/en](http://www.ats.rs/en)):*

<http://www.registar.ats.rs/predmet/940/>

## Detailed scope of accreditation:

Test site: in laboratory Electromagnetic compatibility testing (EMC)				
Ordinal	Test subject / material / product	Test type and/or characteristic to be measured (testing technique)	Range of measurements (where applicable)	Reference
1.	Information technology equipment (IT)	Emission testing	up to 2.7 GHz 3m distance	SRPS EN 55022:2011 - <i>повучен</i> SRPS EN 55022:2011/AC:2012 - <i>повучен</i> (EN 55022:2010 – <i>withdrawn</i> EN 55022:2011/AC:2011 – <i>withdrawn</i> )
		Immunity testing		SRPS EN 55024:2011 - <i>повучен</i> SRPS EN 55024:2011/A1:2015 - <i>повучен</i> (EN 55024:2010 – <i>withdrawn</i> EN 55024:2010/A1:2015 – <i>withdrawn</i> )
2.	Household appliances, electric tools and similar apparatus	Emission testing		SRPS EN 55014-1:2010 - <i>повучен</i> SRPS EN 55014-1:2010/A1:2010 - <i>повучен</i> SRPS EN 55014-1:2010/A2:2012 - <i>повучен</i> осим тачака 4.2, 5.1.3 и 6 (EN 55014-1:2006 – <i>withdrawn</i> EN 55014-1:2006/A1:2009 – <i>withdrawn</i> EN 55014-1:2006/A2:2011 – <i>withdrawn</i> except Clauses 4.2, 5.1.3 and 6)
		Continuous disturbance voltages testing (AMN/AAN)	9 kHz - 30 MHz	SRPS EN 55014-1:2017 SRPS EN 55014-1:2017/A11:2021 (EN 55014-1:2017 EN 55014-1:2017/A11:2020) SRPS EN IEC 55014-1:2021 (EN IEC 55014-1:2021)
		Radiated disturbances testing	30 - 1000 MHz	SRPS EN 55014-1:2017 SRPS EN 55014-1:2017/A11:2021 (EN 55014-1:2017 EN 55014-1:2017/A11:2020)
			30 - 2700 MHz	SRPS EN IEC 55014-1:2021 (EN IEC 55014-1:2021)
		Immunity testing	up to 2.7 GHz 3m distance	SRPS EN 55014-2:2015 (EN 55014-2:2015)
				SRPS EN IEC 55014-2:2021 (EN IEC 55014-2:2021)
3.	Electrical lighting and similar equipment	Disturbance voltages testing on power supply and control ports	9 kHz - 30 MHz	SRPS EN 55015:2014 - <i>повучен</i> SRPS EN 55015:2014/A1:2015 - <i>повучен</i> (EN 55015:2013 – <i>withdrawn</i> EN 55015:2013/A1:2015 – <i>withdrawn</i> )
		Radiated disturbances testing	30 MHz - 300 MHz (CDN: 30 MHz - 230 MHz)	
		Continuous disturbance voltages testing (AMN/AAN)	9 kHz - 30 MHz	SRPS EN IEC 55015:2020 SRPS EN IEC 55015:2020/A11:2020 (EN IEC 55015:2019 EN IEC 55015:2019/A11:2020 )
		Radiated disturbances testing	30 MHz - 1000 MHz	
		Immunity testing		SRPS EN 61547:2012 (EN 61547:2009 )

<b>Test site: in laboratory</b> Electromagnetic compatibility testing (EMC)				
<b>Ordinal</b>	<b>Test subject / material / product</b>	<b>Test type and/or characteristic to be measured (testing technique)</b>	<b>Range of measurements (where applicable)</b>	<b>Reference</b>
4.	<b>Industrial, scientific and medical (ISM) equipment</b>	Emission testing	up to 2.7 GHz 3m distance	SRPS EN 55011:2017 SRPS EN 55011:2017/A1:2017 SRPS EN 55011:2017/A11:2021 SRPS EN 55011:2017/A2:2021 (EN 55011:2016 EN 55011:2016/A1:2017 EN 55011:2016/A11:2020 EN 55011:2017/A2:2021)
5.	<b>Audio, video, audio-visual and entertainment lighting control apparatus for professional use</b>	Immunity testing		SRPS EN 55103-2: 2010 изузев Анекса А - <i>повучен</i> (EN 55103:2009 except Annex A – <i>withdrawn</i> )
6.	<b>Low voltage power supplies</b>	EMC testing (emission, immunity)		EN 61204-3:2010 - <i>повучен</i> изузев табеле 3-3 (EN 61204-3:2000 – <i>withdrawn</i> except Table 3-3)
				EN IEC 61204-3:2018 изузев тачке 6.4.3 (EN IEC 61204-3:2018 except clause 6.4.3)
7.	<b>Electrical equipment for measurement, control and laboratory use</b>	EMC testing (emission, immunity)	up to 2.7 GHz 3m distance / emission	SRPS EN 61326-1:2013 (EN 61326-1:2013)
				SRPS EN 61326-2-1:2013 (EN 61326-2-1:2013)
				(SRPS EN 61326-2-2:2013 (EN 61326-2-2:2013)
				SRPS EN IEC 61326-1:2021 (EN IEC 61326-1:2021)
				SRPS EN IEC 61326-2-1:2021 (EN 61326-2-1:2021)
				(SRPS EN IEC 61326-2-2:2021 (EN IEC 61326-2-2:2021)
8.	<b>Alarm systems</b>	Immunity testing	Table 4 excluding pulse modulation	SRPS EN 50130-4:2012 SRPS EN 50130-4:2012/A1:2018 (EN 50130-4:2011 EN 50130-4:2011/A1:2014)
9.	<b>Uninterruptible power supply (UPS)</b>	EMC testing (emission, immunity)	w/o IEC 61000-2-2	SRPS EN 62040-2:2010 (EN 62040-2:2006)
				SRPS EN IEC 62040-2:2018 (EN IEC 62040-2:2018)
10.	<b>Telecommunication network equipment</b>	EMC testing (emission, immunity)	up to 2.7 GHz 3m distance	SRPS EN 300 386 v1.6.1:2015 изузев Анекса А (EN 300 386 v1.6.1:2012 except Annex A)
11.	<b>Radio equipment and services</b>	EMC testing (emission, immunity)	up to 2.7 GHz 3m distance	SRPS EN 301 489-1 v1.9.2: 2012 (EN 301 489-1 v1.9.2:2011)
				SRPS EN 301 489-1 v2.1.1: 2017 (EN 301 489-1 v2.1.1:2017)
				SRPS EN 301 489-1 v2.2.3: 2020 (EN 301 489-1 v2.2.3: 2019)

<b>Test site: in laboratory</b> Electromagnetic compatibility testing (EMC)				
<b>Ordinal</b>	<b>Test subject / material / product</b>	<b>Test type and/or characteristic to be measured (testing technique)</b>	<b>Range of measurements (where applicable)</b>	<b>Reference</b>
12.	<b>Electricity metering equipment (AC)</b>	EMC testing (emission, immunity)	Burst up to 2 kV (EN 61000-4-4)	SRPS EN 62052-11:2009 г. 7.1 и 7.5 без 7.5.7 (EN 62052-11:2003 с.7.1 and 7.5 except 7.5.7)
13.	<b>Arc welding equipment</b>	EMC testing (emission, immunity)	Monophase supply up to 16A (for c. 6.3.4)	SRPS EN 60974-10:2015 SRPS EN 60974-10: 2015/A1:2017 (EN 60974-10:2014 EN 60974-10:2014/A1:2015)
14.	<b>Programmable controllers (PLC)</b>	EMC testing (emission, immunity)	3m distance / emission	SRPS EN 61131-2:2010 (EN 61131-2:2007)
15.	<b>Road traffic signal systems</b>	EMC testing (emission, immunity)	3m distance / emission	SRPS EN 50293:2013 (EN 50293:2012)
16.	<b>Machine tools</b>	Emission testing	3m distance / emission	SRPS EN 50370-1:2008 (EN 50370-1:2005)
		Immunity testing		SRPS EN 50370-2:2008 (EN 50370-2:2003)
17.	<b>Home and Building Electronic Systems</b>	EMC testing (emission, immunity)		SRPS EN 50491-5-1:2011 (EN 50491-5-1:2010) SRPS EN 50491-5-2:2011 (EN 50491-5-2:2010) SRPS EN 50491-5-3:2011 (EN 50491-5-3:2010)
18.	<b>Medical electrical equipment</b>	EMC testing (emission, immunity)	up to 2.7 GHz 3m distance / mission w/o ISO 7137, CISPR 25, ISO 7637-2 and EN 61000-4-29	SRPS EN 60601-1-2:2016 SRPS EN 60601-1-2:2016/A1:2021 (EN 60601-1-2:2015 EN 60601-1-2:2015/A1:2021)
19.	<b>Residential, commercial and light-industrial environments</b>	Emission testing	up to 2.7 GHz 3m distance in SAC	SRPS EN 61000-6-3:2008 SRPS EN 61000-6-3:2008/A1:2011 SRPS EN 61000-6-3:2008/AC:2012 (EN 61000-6-3:2007 EN 61000-6-3:2007/A1:2011 EN 61000-6-3:2007/AC:2012)
				SRPS EN IEC 61000-6-3:2021 (EN IEC 61000-6-3:2021)
		Immunity testing	up to 2.7 GHz	SRPS EN 61000-6-1:2008 - <i>повучен</i> (EN 61000-6-1:2007 – <i>withdrawn</i> )
				SRPS EN IEC 61000-6-1:2019 (EN IEC 61000-6-1:2019)
20.	<b>Industrial environments</b>	Emission testing	up to 2.7 GHz 3m distance y SAC	SRPS EN 61000-6-4:2008 - <i>повучен</i> SRPS EN 61000-6-4:2008 /A1:2011 - <i>повучен</i> (EN 61000-6-4:2007 – <i>withdrawn</i> EN 61000-6-4:2007/A1:2011 – <i>withdrawn</i> )
				SRPS EN IEC 61000-6-4:2020 (EN IEC 61000-6-4:2019)

Test site: in laboratory				
Electromagnetic compatibility testing (EMC)				
Ordinal	Test subject / material / product	Test type and/or characteristic to be measured (testing technique)	Range of measurements (where applicable)	Reference
		Immunity testing		SRPS EN 61000-6-2:2008 - <i>новучен</i> (EN 61000-6-2:2005 – <i>withdrawn</i> EN 61000-6-2:2005/AC:2005 – <i>withdrawn</i> )
			up to 2.7 GHz	SRPS EN IEC 61000-6-2:2019 (EN IEC 61000-6-2:2019)
21.	Electrical and electronic equipment, devices and systems intended for connection to public low-voltage supply systems	Limits for harmonic current emissions	monophase	SRPS EN 61000-3-2:2014 - <i>новучен</i> (EN 61000-3-2:2014 – <i>withdrawn</i> ) SRPS EN IEC 61000-3-2:2019 SRPS EN IEC 61000-3-2:2019/A1:2021 (EN IEC 61000-3-2:2019 EN IEC 61000-3-2:2019/A1:2021)
		Limitation of voltage changes, voltage fluctuations and flicker	monophase	SRPS EN 61000-3-3:2014 SRPS EN 61000-3-3:2014/ A1:2020 SRPS EN 61000-3-3:2014/ A2:2021 SRPS EN 61000-3-3:2014/ A2:2021/AC:2022 (EN 61000-3-3:2013 EN 61000-3-3:2013/A1:2019 EN 61000-3-3:2014/ A2:2021 EN 61000-3-3:2014/ A2:2021/AC:2022-01)
22.	Electrical and electronic equipment, devices and systems (EMC basic standards)	Electrostatic Discharge (ESD) Immunity testing		SRPS EN 61000-4-2:2009 (EN 61000-4-2:2009)
		Radiated RF immunity testing		SRPS EN 61000-4-3:2008 SRPS EN 61000-4-3:2008 /A1:2009 SRPS EN 61000-4-3:2008 /A2:2012 (EN 61000-4-3:2006 EN 61000-4-3:2006/A1:2008 EN 61000-4-3:2006/A2:2010)
				SRPS EN IEC 61000-4-3:2021 (EN IEC 61000-4-3:2020)
		Electrical fast transient/burst immunity testing		SRPS EN 61000-4-4:2013 (EN 61000-4-4:2012)
		Surge immunity testing	monophase w/o 10/700 μs pulses	SRPS EN 61000-4-5:2014 SRPS EN 61000-4-5:2014/ A1:2017 (EN 61000-4-5:2014 EN 61000-4-5:2014/A1:2017)
		Conducted disturbances immunity testing		SRPS EN 61000-4-6: 2014 (EN 61000-4-6:2014)
		Power frequency magnetic field immunity testing		SRPS EN 61000-4-8:2012 (EN 61000-4-8:2010)
		Pulse magnetic immunity testing	w/o Helmholtz coils	SRPS EN 61000-4-9:2017 (EN 61000-4-9:2016)

<b>Test site: in laboratory</b> Electromagnetic compatibility testing (EMC)				
<b>Ordinal</b>	<b>Test subject / material / product</b>	<b>Test type and/or characteristic to be measured (testing technique)</b>	<b>Range of measurements (where applicable)</b>	<b>Reference</b>
		Voltage dips, short interruptions and voltage variations immunity testing	monophase	SRPS EN 61000-4-11:2008 SRPS EN 61000-4-11:2008/ A1:2017 (EN 61000-4-11:2004 EN 61000-4-11:2004/A1:2017)
		Conducted RF emissions (LISN, ISN)	9 kHz – 30 MHz	SRPS EN IEC 61000-4-11:2021 SRPS EN IEC 61000-4-11:2021/AC:2021 (EN IEC 61000-4-11:2020 EN IEC 61000-4-11:2021/AC:2020-06)
		Radiated RF emissions	up to 2.7 GHz 3m distance in SAC	SRPS EN 55016-2-1:2014 SRPS EN 55016-2-1:2014 /A1:2017 SRPS EN 55016-2-1:2014 /AC:2021 (EN 55016-2-1:2014 EN 55016-2-1:2014/A1:2017 EN 55016-2-1:2014 /AC:2020-09)
				SRPS EN 55016-2-3:2017 SRPS EN 55016-2-3:2017/ A1:2020 (EN 55016-2-3:2017 EN 55016-2-3:2017/ A1:2019)
<b>23.</b>	<b>Multimedia Equipment (MME):</b> - IT equipment - AV equipment - TV, radio and satellite receivers - Lighting entertainment equipment  And combination of the above.	Testing of conducted and radiated emissions	up to 2.7 GHz	SRPS EN 55032:2015 SRPS EN 55032:2015/AC:2016 SRPS EN 55032:2015/A11:2021 SRPS EN 55032:2015/A1:2021 (EN 55032:2015 EN 55032:2015/AC:2016-07 EN 55032:2015/A11:2020 EN 55032:2015/A1:2020)
		Immunity testing	up to 2.7 GHz w/o disturbances from tables 2.2 and 2.3	SRPS EN 55035:2017 SRPS EN 55035:2017/A11:2021 (EN 55035:2017 EN 55035:2017/A11:2020)
<b>24.</b>	<b>Electrical and Electronic Equipment</b>	Powerline conducted emissions measurement		ANSI C63.4 - 2014
		Radiated emissions measurement	30 MHz - 2.7 GHz	ANSI C63.4 – 2014
<b>25.</b>	<b>Vehicles, boats and internal combustion engines</b>  (components/modules)	Radiated emissions measurement (ALSE method)	30 MHz - 2000 MHz	SRPS EN 55025:2017 SRPS EN 55025:2017/AC:2017 (EN 55025:2017 EN 55025:2017/AC:2017)
				SRPS EN IEC 55025:2022 (EN IEC 55025:2022)
<b>26.</b>	<b>Switches for household and similar fixed electrical installations</b>	EMC testing: conducted (AMN/AAN) and radiated RF emissions and immunity	up to 2.7 GHz	SRPS EN IEC 60669-2-1:2023 SRPS EN IEC 60669-2-1:2023/A11:2023 (EN IEC 60669-2-1:2022 (IEC 60669-2-1:2021) EN IEC 60669-2-1:2022/A11:2022)

<b>Test site: in-situ</b>				
Electromagnetic compatibility testing				
<b>Ordinal</b>	<b>Test subject / material / product</b>	<b>Test type and/or characteristic to be measured (testing technique)</b>	<b>Range of measurements (where applicable)</b>	<b>Reference</b>
27.	<b>Machine tools (electrically powered) or machine parts (components)</b>	Emission testing		SRPS EN 50370-1:2008 (EN 50370-1:2005)
		Immunity to electrostatic discharge	ESD only	SRPS EN 50370-2:2008 (EN 50370-2:2003)
28.	<b>Industrial, science and medical (ISM) equipment</b>	Emission testing	up to 2 GHz	SRPS EN 55011:2011 - <i>новучен</i> SRPS EN 55011:2011 / A1:2011 - <i>новучен</i> (EN 55011:2009 - <i>withdrawn</i> EN 55011:2009 /A1:2010 - <i>withdrawn</i> )
				SRPS EN 55011:2017 SRPS EN 55011:2017/A1:2017 SRPS EN 55011:2017/A11:2021 SRPS EN 55011:2017/A2:2021 (EN 55011:2016 EN 55011:2016/A1:2016 EN 55011:2016/A11:2020 EN 55011:2016/A2:2021)

<b>Test site: in laboratory</b>				
Electrical and electronic testing				
<b>Ordinal</b>	<b>Test subject / material / product</b>	<b>Test type and/or characteristic to be measured (testing technique)</b>	<b>Range of measurements (where applicable)</b>	<b>Reference</b>
29.	<b>Electrical products and equipment, telecommunications, electronics</b>  Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques	RF output power		SRPS EN300 328 v1.8.1:2013 т. 5.3.2 (EN 300 328 v1.8.1:2012 c. 5.3.2)
				SRPS EN 300 328 v1.9.1:2015 т. 5.3.2 (EN 300 328 v1.9.1:2015 c. 5.3.2)
				SRPS EN 300 328 v2.1.1:2017 т. 5.4.2 ( EN 300 328 v2.1.1:2016 c. 5.4.2)
				SRPS EN 300 328 v2.2.2:2020 т.5.4.2 ( EN 300 328 v2.2.2:2019 c. 5.4.2)
		Power Spectral Density		SRPS EN 300 328 v1.8.1:2013 т. 5.3.3 (EN 300 328 v1.8.1:2012 c.5.3.3)
				SRPS EN 300 328 v1.9.1:2015 т.5.3.3 (EN 300 328 v1.9.1:2015 c.5.3.3)
				SRPS EN 300 328 v2.1.1:2017 т. 5.4.3 ( EN 300 328 v2.1.1:2016 c. 5.4.3)
				SRPS EN 300 328 v2.2.2:2020 т.5.4.3 ( EN 300 328 v2.2.2:2019 c. 5.4.3)
		Occupied Channel Bandwidth		SRPS EN 300 328 v1.8.1:2013 т.5.3.8 (EN 300 328 v1.8.1:2012 c.5.3.8)
				SRPS EN 300 328 v1.9.1:2015 т.5.3.8 (EN 300 328 v1.9.1:2015 c.5.3.8)

				SRPS EN 300 328 v2.1.1:2017 т. 5.4.7 ( EN 300 328 v2.1.1:2016 c. 5.4.7)
				SRPS EN 300 328 v2.2.2:2020 т.5.4.7 ( EN 300 328 v2.2.2:2019 c. 5.4.7)
<b>30.</b>	<b>Short Range Devices (SRD)</b>  Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz	Permitted range of operating frequencies	Conducted method	EN 300330-1 V1.8.1:2015 т.7.3 (EN 300330-1 V1.8.1:2015 c.7.3)
				SRPS EN 300330-1 v2.1.1:2017 т.4.3.2 (EN 300330-1 v2.1.1:2017 c.4.3.2)
<b>31.</b>	<b>Short Range Devices (SRD)</b>  Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW	Average power	Conducted method in normal test conditions	SRPS EN 300220-1 v2.4.1:2013 т. 7.2 (EN 300220-1 v2.4.1:2012 c. 7.2)
				SRPS EN 300220-1 v3.1.1:2017 т. 5.2 (EN 300220-1 v3.1.1:2017 c. 5.2)
		Transient power		SRPS EN 300220-1 v2.4.1:2013 т. 7.5 (EN 300220-1 v2.4.1:2012 c. 7.5)
				SRPS EN 300220-1 v3.1.1:2017 т. 5.10 (EN 300220-1 v3.1.1:2017 c. 5.10)
		Modulation bandwidth	Conducted method in normal test conditions	SRPS EN 300220-1 v2.4.1:2013 т. 7.7 (EN 300220-1 v2.4.1:2012 c. 7.7)
		TX out of band emissions		SRPS EN 300220-1 v3.1.1:2017 тачке 5.6 и 5.8 (EN 300220-1 v3.1.1:2017 clauses 5.6 and 5.8)
		Transmitter unwanted emissions in the spurious domain	Conducted method	SRPS EN 300220-1 v2.4.1:2013 т. 7.8 (EN 300220-1 v2.4.1:2012 c. 7.8)
				SRPS EN 300220-1 v3.1.1:2017 т. 5.9 (EN 300220-1 v3.1.1:2017 c. 5.9)
		Frequency stability under low voltage conditions		SRPS EN 300220-1 V2.4.1:2013 т. 7.9 (EN 300220-1 V2.4.1:2012 c. 7.9)
				SRPS EN 300220-1 v3.1.1:2017 т. 5.12 (EN 300220-1 v3.1.1:2017 c. 5.12)
Duty cycle	Conducted method	SRPS EN 300220-1 V2.4.1:2013 т. 7.10 (EN 300220-1 V2.4.1:2012 c. 7.10)		
		SRPS EN 300220-1 v3.1.1:2017 т. 5.4 (EN 300220-1 v3.1.1:2017 c. 5.4)		
Receiver spurious radiation	Conducted method	SRPS EN 300220-1 V2.4.1:2013 т. 8.6 (EN 300220-1 V2.4.1:2012 c. 8.6)		
		SRPS EN 300220-1 v3.1.1:2017 т. 5.9 (EN 300220-1 v3.1.1:2017 c. 5.9)		

<b>Test site: in laboratory and in-situ*</b>				
Electrical and electronic testing				
Ordinal	Test subject / material / product	Test type and/or characteristic to be measured (testing technique)	Range of measurements (where applicable)	Reference
<b>32.</b>	<b>Televisions (TV sets), monitors, digital signage displays</b>	Power consumption		SRPS EN 62087-3:2016 (EN 62087-3:2016)



33.	<b>Computer monitors</b>	Power consumption		SRPS EN IEC 62087-7:2019 (EN IEC 62087-7:2019)
34.	<b>Desktop and notebook computers*</b>	Energy consumption		SRPS EN 62623:2014 (EN 62623:2013)
				SRPS EN IEC 62623:2022 (EN IEC 62623:2022)
35.	<b>Set-top-boxes (STB)*</b>	Power consumption		SRPS EN 62087-5:2016 (EN 62087-5:2016)
36.	<b>Electrical and electronic household and office equipment</b>	Measurement of low power consumption		SRPS EN 50564:2012 (EN 50564:2011)

*This Scope of accreditation is valid only with Accreditation certificate No 01-404*

*Accreditation expiry date: 24/05/2026*