

Name: Information and Communications Testing Lab, Shanghai Advanced Research Institute, Chinese Academy of Sciences

Address: 2/F., Building 1, No.99, Haik Road, Zhangjiang Hi-Tech Park, Pudong New Area, Shanghai, China

Registration No. CNAS L11164

Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS

Effective Date: 2020-12-16 Expiry Date: 2024-07-08

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
1	2.4GHz wireless data transmission equipment	1	RF output power	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 300 328 V2.1.1 4.3.1.2/4.3.2.2		2020-12-16
				Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum ETSI EN 300 328 V2.2.2 4.3.1.2/4.3.2.2		2020-12-16
		2	Power Spectral Density	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 300 328 V2.1.1 4.3.2.3		2020-12-16
				Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum ETSI EN 300 328 V2.2.2 4.3.2.3		2020-12-16

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		3	Duty Cycle,Tx-sequence, Tx-gap	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 300 328 V2.1.1 4.3.1.3/4.3.2.4		2020-12-16
				Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum ETSI EN 300 328 V2.2.2 4.3.1.3/4.3.2.4		2020-12-16
		4	Accumulated Transmit Time,Frequency Occupation and Hopping Sequence	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 300 328 V2.1.1 4.3.1.4		2020-12-16
				Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum ETSI EN 300 328 V2.2.2 4.3.1.4		2020-12-16
		5	Hopping Frequency Separation	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 300 328 V2.1.1 4.3.1.5		2020-12-16
				Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum ETSI EN 300 328 V2.2.2 4.3.1.5		2020-12-16
		6	Medium Utilization(MU) factor	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 300 328 V2.1.1 4.3.1.6/4.3.2.5		2020-12-16
				Wideband transmission systems; Data transmission equipment		2020-12-16



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				operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum ETSI EN 300 328 V2.2.2 4.3.1.6/4.3.2.5		
		7	Adaptivity	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 300 328 V2.1.1 4.3.1.7/4.3.2.6		2020-12-16
				Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum ETSI EN 300 328 V2.2.2 4.3.1.7/4.3.2.6		2020-12-16
		8	Occupied Channel Bandwidth	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 300 328 V2.1.1 4.3.1.8/4.3.2.7		2020-12-16
				Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum ETSI EN 300 328 V2.2.2 4.3.1.8/4.3.2.7		2020-12-16
		9	Transmitter unwanted emissions in the out-of-band domain	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 300 328 V2.1.1 4.3.1.9/4.3.2.8		2020-12-16
				Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum ETSI EN 300 328 V2.2.2 4.3.1.9/4.3.2.8		2020-12-16
		10	Transmitter unwanted emissions in the spurious domain	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU		2020-12-16



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				ETSI EN 300 328 V2.1.1 4.3.1.10/4.3.2.9		
				Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum ETSI EN 300 328 V2.2.2 4.3.1.10/4.3.2.9		2020-12-16
		11	Receiver spurious emissions	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 300 328 V2.1.1 4.3.1.11/4.3.2.10		2020-12-16
				Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum ETSI EN 300 328 V2.2.2 4.3.1.11/4.3.2.10		2020-12-16
		12	Receiver Blocking	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 300 328 V2.1.1 4.3.1.12/4.3.2.11		2020-12-16
				Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum ETSI EN 300 328 V2.2.2 4.3.1.12/4.3.2.11		2020-12-16
2	5GHz wireless data transmission equipment	1	Nominal Centre frequencies	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 301 893 V2.1.1 4.2.1		2020-12-16
		2	RF output power	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 301 893 V2.1.1 4.2.3		2020-12-16
		3	Transmit Power Control(TPC)	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 301 893 V2.1.1 4.2.3		2020-12-16



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		4	Power Density	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 301 893 V2.1.1 4.2.3		2020-12-16
		5	Adaptivity	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 301 893 V2.1.1 4.2.7		2020-12-16
		6	Occupied Channel Bandwidth	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 301 893 V2.1.1 4.2.2		2020-12-16
		7	Transmitter unwanted emissions outside the 5GHz RLAN bands	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 301 893 V2.1.1 4.2.4.1		2020-12-16
		8	Transmitter unwanted emissions within the 5GHz RLAN bands	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 301 893 V2.1.1 4.2.4.2		2020-12-16
		9	Receiver spurious emissions	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 301 893 V2.1.1 4.2.5		2020-12-16
		10	Dynamic Frequency Selection(DFS)	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 301 893 V2.1.1 4.2.6		2020-12-16
		11	Receiver Blocking	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 301 893 V2.1.1 4.2.8		2020-12-16
3	GJB RFID tag	1	Identification sensitivity	Test methods for passive RFID devices part 2:Performance at 800/900MHz RIAS1000-2 v1.0 7.1		2020-12-16
		2	Backscatter intensity	Test methods for passive RFID devices part 2:Performance at 800/900MHz RIAS1000-2 v1.0 7.2		2020-12-16



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		№	Item/ Parameter					
		3	Read Range	Test methods for passive RFID devices part 2:Performance at 800/900MHz RIAS1000-2 v1.0 7.3		2020-12-16		
		4	write sensitivity	Test methods for passive RFID devices part 2:Performance at 800/900MHz RIAS1000-2 v1.0 7.4		2020-12-16		
		5	Loss of sensitivity caused by tag orientation	Test methods for passive RFID devices part 2:Performance at 800/900MHz RIAS1000-2 v1.0 7.5		2020-12-16		
		6	Write time of Tag	Test methods for passive RFID devices part 2:Performance at 800/900MHz RIAS1000-2 v1.0 7.7		2020-12-16		
		7	tag anti-interference ability	Test methods for passive RFID devices part 2:Performance at 800/900MHz RIAS1000-2 v1.0 7.6		2020-12-16		
		1	Read Range	EPC globalClass-1 Gen-2 Tag Performance Parameters and Test Methods Version 1.1.3 EPC globalClass-1 Gen-2 V1.1.3 8.1		2020-12-16		
		2	Frequency Tolerance	EPC globalClass-1 Gen-2 Tag Performance Parameters and Test Methods Version 1.1.3 EPC globalClass-1 Gen-2 V1.1.3 8.3		2020-12-16		
4	UHF Tag	3	Backscatter intensity	EPC globalClass-1 Gen-2 Tag Performance Parameters and Test Methods Version 1.1.3 EPC globalClass-1 Gen-2 V1.1.3 8.5		2020-12-16		
		4	Write Range	EPC globalClass-1 Gen-2 Tag Performance Parameters and Test Methods Version 1.1.3 EPC globalClass-1 Gen-2 V1.1.3 8.6		2020-12-16		
		5	Tag Proximity	EPC globalClass-1 Gen-2 Tag Performance Parameters and Test Methods Version 1.1.3 EPC globalClass-1 Gen-2 V1.1.3 8.8		2020-12-16		
		6	Orientation Tolerance	8.2		2020-12-16		
		7	Interference Tolerance			2020-12-16		
		8	write time	标签性能参数及测试方法_V1.1.3 EPC globalClass-1 Gen-2 V1.1.3 8.7		2020-12-16		
		5	Satellite broadcast receiver	1	Adjacent signal selectivity			2020-12-16



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		№	Item/ Parameter			
		2	Dynamic range			2020-12-16
6	Digital terrestrial television broadcast receiver	1	Sensitivity	Digital Terrestrial TV Broadcast Receivers; Harmonised Standard for access to radio spectrum ETSI EN 303 340 V1.2.0 (2020-06) 4.2.3		2020-12-16
		2	Adjacent Channel Selectivity	Digital Terrestrial TV Broadcast Receivers; Harmonised Standard for access to radio spectrum ETSI EN 303 340 V1.2.0 (2020-06) 4.2.4		2020-12-16
		3	Blocking	Digital Terrestrial TV Broadcast Receivers; Harmonised Standard for access to radio spectrum ETSI EN 303 340 V1.2.0 (2020-06) 4.2.5		2020-12-16
		4	Overloading	Digital Terrestrial TV Broadcast Receivers; Harmonised Standard for access to radio spectrum ETSI EN 303 340 V1.2.0 (2020-06) 4.2.6		2020-12-16
7	Broadcast Sound Receivers	1	Sensitivity	Broadcast Sound Receivers; Part 1: Generic requirements and measuring methods ETSI EN 303 345-1 V1.1.1 5.3.4		2020-12-16
				Broadcast Sound Receivers; Part 2: AM broadcast sound service; Harmonised Standard for access to radio spectrum ETSI EN 303 345-2 V1.1.1 4.2		2020-12-16
				Broadcast Sound Receivers; Part 3: FM broadcast sound service; Harmonised Standard for access to radio spectrum ETSI EN 303 345-3 V1.1.0 4.2		2020-12-16
				Broadcast Sound Receivers; Part 4: DAB broadcast sound service; Harmonised Standard for access to radio spectrum ETSI EN 303 345-4 V1.1.0 4.2		2020-12-16
				Broadcast Sound Receivers; Part 5: DRM broadcast sound service; Harmonised Standard for access to radio spectrum ETSI EN 303 345-5 V1.1.1 4.2		2020-12-16
		2	Adjacent channel	Broadcast Sound Receivers; Part 1: Generic requirements and		2020-12-16

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		№	Item/ Parameter			
			selectivity and blocking	measuring methods ETSI EN 303 345-1 V1.1.1 5.3.5		
				Broadcast Sound Receivers; Part 2: AM broadcast sound service; Harmonised Standard for access to radio spectrum ETSI EN 303 345-2 V1.1.1 4.3		2020-12-16
				Broadcast Sound Receivers; Part 3: FM broadcast sound service; Harmonised Standard for access to radio spectrum ETSI EN 303 345-3 V1.1.0 4.3		2020-12-16
				Broadcast Sound Receivers; Part 4: DAB broadcast sound service; Harmonised Standard for access to radio spectrum ETSI EN 303 345-4 V1.1.0 4.3		2020-12-16
				Broadcast Sound Receivers; Part 5: DRM broadcast sound service; Harmonised Standard for access to radio spectrum ETSI EN 303 345-5 V1.1.1 4.3		2020-12-16
8	Automotive electronic components	1	transient conducting immunity			2020-12-16
9		1	Transmitted Output Power	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance Testing 3GPP TS 36.521-1 V15.6.0(f60) 6.2		2020-12-16
				LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance Testing 3GPP TS 36.521-1 V15.6.0(f60) 6.3		2020-12-16
				LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance Testing 3GPP TS 36.521-1 V15.6.0(f60) 6.5		2020-12-16
				LTE;Evolved Universal Terrestrial Radio Access (E-UTRA);		2020-12-16



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		№	Item/ Parameter			
			radiation	User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance Testing 3GPP TS 36.521-1 V15.6.0(f60) 6.6		
		5	Transmit intermodulation	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance Testing 3GPP TS 36.521-1 V15.6.0(f60) 6.7		2020-12-16
		6	Reference sensitivity	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance Testing 3GPP TS 36.521-1 V15.6.0(f60) 7.3		2020-12-16
		7	Maximum input power	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance Testing 3GPP TS 36.521-1 V15.6.0(f60) 7.4		2020-12-16
		8	Adjacent Channel Selectivity (ACS)	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance Testing 3GPP TS 36.521-1 V15.6.0(f60) 7.5		2020-12-16
		9	Blocking feature	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance Testing 3GPP TS 36.521-1 V15.6.0(f60) 7.6		2020-12-16
		10	Spurious response	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance Testing 3GPP TS 36.521-1 V15.6.0(f60) 7.7		2020-12-16
		11	Wide band Intermodulation	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance Testing 3GPP		2020-12-16



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				TS 36.521-1 V15.6.0(f60) 7.8		
		12	Narrow-band demodulation	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance Testing 3GPP TS 36.521-1 V15.6.0(f60) 8.12		2020-12-16
10		1	Universal test	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification 3GPP TS 36.523-1 V15.6.1(f61) 22.1		2020-12-16
		2	Idle state test	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification 3GPP TS 36.523-1 V15.6.1(f61) 22.2		2020-12-16
		3	The layer 2 test	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification 3GPP TS 36.523-1 V15.6.1(f61) 22.3		2020-12-16
		4	RRC test	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification 3GPP TS 36.523-1 V15.6.1(f61) 22.4		2020-12-16
		5	EMM-CIoT Test	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification 3GPP TS 36.523-1 V15.6.1(f61) 22.5		2020-12-16
		6	ESM-CIoT Test	LTE;Evolved Universal Terrestrial Radio Access (E-UTRA); Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification 3GPP TS 36.523-1 V15.6.1(f61) 22.6		2020-12-16



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11	Electrical and electronic equipment	1	Radiation immunity		Accredited only for: $\leq 10V/m$	2020-12-16
				Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test IEC 61000-4-3:2006 +A1:2007+A2:2010	Accredited only for: $\leq 10V/m$	2020-12-16
				Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test EN 61000-4-3:2006/A2:2010	Accredited only for: $\leq 10V/m$	2020-12-16
		2	RF conducted immunity		2020-12-16	
				Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields IEC 61000-4-6:2013		2020-12-16
				Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields EN 61000-4-6:2014		2020-12-16
12	communication device	1	Radiation spurious			2020-12-16
						2020-12-16
						2020-12-16
				Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU ETSI EN 301 511 V12.5.10 4.2.16-4.2.19		2020-12-16
				Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing 3GPP TS 36.521-1		2020-12-16

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				V16.5.0 6.6.3		

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