

Name: Tianfu Xinglong Lake Laboratory

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Registration No. CNAS L23314

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

Effective Date: 2025-05-30 Expiry Date: 2031-05-29

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
1. Metallic Material						
1	Films	1	Thickness	Metallic coatings—Measurement of coating thickness—Scanning electron microscope method GB/T 31563-2015		2025-05-30
		2	Roughness	Test method for the surface roughness by atomic force microscope for sputtered thin films GB/T 31227-2014		2025-05-30
		3	Element component	Microbeam analysis—Quantitative analysis using energy-dispersive spectrometry(EDS) for elements with an atomic number of 11(Na) or above GB/T 17359-2023		2025-05-30
2. Semiconductor Material						
1	Silicon nitride	1	Element component	Microbeam analysis—Quantitative analysis using energy-dispersive spectrometry(EDS) for elements with an atomic number of 11(Na) or above GB/T 17359-2023		2025-05-30
2	Silica	1	Element component	Microbeam analysis—Quantitative analysis using energy-dispersive spectrometry(EDS) for elements with an atomic		2025-05-30

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				number of 11(Na) or above GB/T 17359-2023		
3	Graphene	1	Layers	Nanotechnologies— Measurement of the number of layers of graphene-related two-dimensional(2D) materials—Raman spectroscopy method GB/T 40069-2021		2025-05-30
4	Semiconductor coating	1	Thickness	Test method for the thickness of silicon oxide on Si substrate by ellipsometer GB/T 31225-2014		2025-05-30
		2	Roughness	Test method for the surface roughness by atomic force microscope for sputtered thin films GB/T 31227-2014		2025-05-30
		3	Element component	Microbeam analysis—Quantitative analysis using energy-dispersive spectrometry(EDS) for elements with an atomic number of 11(Na) or above GB/T 17359-2023		2025-05-30
3 Infrared Optical Material						
1	Infrared optical materials glass	1	Transmittance	Test methods of infrared transmittance for infrared optical glass—Fourier transform method GB/T 36403-2018		2025-05-30
2	Glass	1	Transmittance /Reflectance	Glass in building—Determination of light transmittance,solar direct transmittance,total solar energy transmittance, ultraviolet transmittance and related glazing factors GB/T 2680-2021	Accredited single glass only for method 5.1 (visible light reflectance) / 5.2 (visible light transmittance)/ 5.4(solar direct	2025-05-30

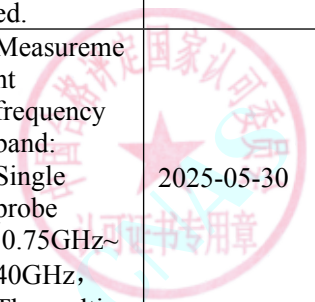


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					transmittance)/5.5(solar direct reflectance)	
4. Antenna						
1	Antenna	1	Gain	Method of performance The testing for radar antenna subsystem GJB 3071A-2019 6.3.3	Measurement frequency band: Single probe :0.75GHz~40GHz, The multi-probe measurement system is not recommended.	2025-05-30
				Testing methods of passive antennas in mobile communication system YD/T 2868-2020 5.2.2	Measurement frequency band: Single probe :0.75GHz~40GHz, The multi-	2025-05-30

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					probe measurement system is not recommended.	
		2	Radiation pattern	The measuring and testing of performance characteristics for radar antenna subsystem Pattern GJB 3310-98 Method 301	Measurement frequency band: Single probe :0.75GHz~40GHz, The multi-probe measurement system is not recommended.	2025-05-30
				Testing methods of passive antennas in mobile communication system YD/T 2868-2020 5.2.3	Measurement frequency band: Single probe :0.75GHz~40GHz, The multi-	2025-05-30



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					probe measurement system is not recommended.	
		3	Main lobe width	The measuring and testing of performance characteristics for radar antenna subsystem Pattern GJB 3310-98 Method 301	Measurement frequency band: Single probe :0.75GHz~40GHz, The multi-probe measurement system is not recommended.	2025-05-30
		4	Axial ratio	Method of performance testing for radar antenna subsystem GJB 3071A-2019 6.1.3	Measurement frequency band: Single probe :0.75GHz~40GHz, The multi-	2025-05-30

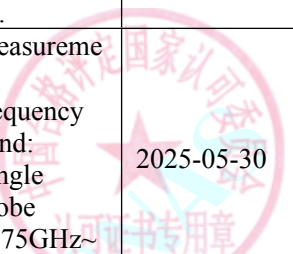


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					probe measurement system is not recommended.	
		5	Beam pointing direction	Method of performance testing for radar antenna subsystem GJB 3071A-2019 6.2.4	Measurement frequency band: Single probe :0.75GHz~40GHz. The multi-probe measurement system is not recommended.	2025-05-30
		6	Isolation between T-R antennas	Method of performance testing for radar antenna subsystem GJB 3071A-2019 6.6.2	Measurement frequency band: Single probe :0.75GHz~40GHz.	2025-05-30
				Test methods of passive antennas in mobile communication system YD/T 2868-2020 5.4.3	Measurement	2025-05-30

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					frequency band: Single probe :0.75GHz~40GHz.	
		7	Voltage standing wave ratio	Method of performance testing for radar antenna subsystem GJB 3071A-2019 6.7	Measurement frequency band: Single probe :0.75GHz~40GHz	2025-05-30
				Test methods of passive antennas in mobile communication system YD/T 2868-2020 5.4.2	Measurement frequency band: Single probe :0.75GHz~40GHz	2025-05-30
5 Radar absorbing material and transmission material						
1	Radar absorbing material	1	Reflectivity	Methods for measurement of reflectivity of radar absorbing material GJB 2038A-2011 6	Measurement frequency band: Reflectivity : 2GHz~40G	2025-05-30

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					Hz This device cannot operate simultaneously with the transmissivity measurement device.	
		2	Reflection amplitude	Methods for measurement of reflectivity of radar absorbing material GJB 2038A-2011 6	Measurement frequency band: Reflectivity :2GHz~40 GHz This device cannot operate simultaneously with the transmissivity measurement device.	2025-05-30
		3	Reflection phase	Methods for measurement of reflectivity of radar absorbing material GJB 2038A-2011 6	Measurement frequency	2025-05-30

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					band: Reflectivity :2GHz~40 GHz。 This device cannot operate simultaneo usly with the transmissiv ity measureme nt device.	
2	Radar transmission material	1	Transmissivity	The measurement methods for transmissivity of radar transmission material GJB 7954-2012 5	Measureme nt frequency band: Transmissi vity: 2GHz~40G Hz。 This device cannot operate simultaneo usly with the reflectivity measureme	2025-05-30

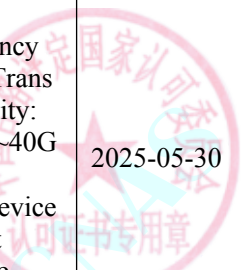


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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
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					nt device.	
		2	Transmission amplitude	The measurement methods for transmissivity of radar transmission material GJB 7954-2012 5	Measurement frequency band: Transmissivity: 2GHz~40GHz。 This device cannot operate simultaneously with the reflectivity measurement device.	2025-05-30
		3	Transmission phase	The measurement methods for transmissivity of radar transmission material GJB 7954-2012 5	Measurement frequency band: Transmissivity: 2GHz~40GHz This device cannot operate simultaneously with	2025-05-30

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					the reflectivity measurement device.	

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