

Name: Xiamen Institute of Measurement and Testing

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Registration No. CNAS L3031

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

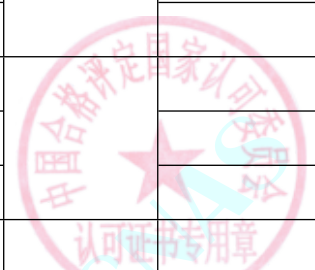
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CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT
SCHEDULE OF ACCREDITATION CERTIFICATE

SCHEDULE 5 ACCREDITED CALIBRATION AND MEASUREMENT CAPABILITY SCOPE

Note: The instruments with * represents onsite calibration can be performed.

No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
Mechanics							
1	*Digital Indicating Weighing Instrument	mass	V.R.of Digital Indicating Weighing Instrument JJG539	4g~60kg	$U=(0.03\sim 2)g$		
				60kg~1t	$U=2g\sim 0.06kg$		
				(1~10)t	$U=(0.06\sim 1.0)kg$		
				(10~100)t	$U=(1.0\sim 6)kg$		
2	*Non-self Indicating Weight	mass	V.R.of Non-self indication Weighing Instrument JJG14	(1~10)kg	$U=(0.4\sim 1.5)g$		
				(10~100)kg	$U=(1.5\sim 15)g$		
				100kg~1t	$U=15g\sim 0.15kg$		
3	*Analogue Indicating Weighing Instrument	mass	V.R.of Analogue Indicating Weighing Instrument JJG13	(0.25~8)kg	$U=(1\sim 4)g$		
				(8~50)kg	$U=(4\sim 10)g$		



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No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
4	*Universal Tension and Compression Testing Machine	Force	V.R.of Universal Tension and Compression Testing Machine JJG139	0.1N~5MN	$U_{rel}=0.44\%$		
5	*Rockwell hardness Testers	Hardness	V.R.of Metallic Rockwell Hardness Testers(Scales A,B,C,D,E,F,G,H,K,N,T) JJG112	(20~70)HRC	$U=0.5HRC$	Except for pressure head	
				(85~100)HRBW	$U=0.7HRBW$		
				(80~88)HRA	$U=0.5HRA$		
6	*Brinell Hardness Testers	Hardness	V.R.of Metallic Brinell Hardness Testers JJG150	(75~125)HBW	$U_{rel}=2.5\%$		
				(125~600)HBW	$U_{rel}=1.9\%$		
7	*Vickers Hardness Testers	Hardness	V.R.of Metallic Vickers Hardness Testing Machines JJG151	(170~225) HV5	$U_{rel}=5.2\%$		
				(>225~1000) HV5	$U_{rel}=3.3\%$		
				(>225~1000) HV10	$U_{rel}=3.3\%$		
				(>225~1000) HV30	$U_{rel}=3.3\%$		
8	Working Dynamo-meters	Force Indication	V.R.of Working Dynamometers JJG455	(0.01~500)N	$U_{rel}=0.22\%$		
				500N~300kN	$U_{rel}=0.44\%$		
9	Torque Wrenches	Torque	V.R.of Torque Wrenches JJG707	(0.05~50) Nm	$U_{rel}=1.4\%$		
				(50~3000) Nm	$U_{rel}=1.1\%$		
10	*Calibration Instrument for Torque Wrenches	Torque	V.R.of Calibration Instrument for Torque Wrenches JJG797	(0.1~1000) Nm	$U_{rel}=0.15\%$		
11	*Flow Analyzer for Short Transient Loaded Mode of	Gas flow	C.S of Flow Analyzer for Short Transient Loaded Mode of Gasoline Vehicles JJF1385	(95~180) L/s	$U_{rel}=2.0\%$		

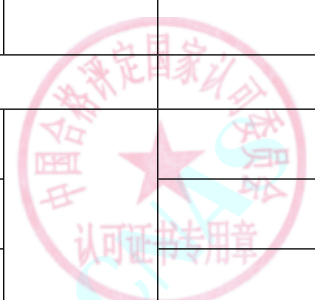


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No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
	Gasoline Vehicles"	Dilute mixture Oxygen concentration		(5~21) %	$U_{rel}=2.5\%$		
12	Techometer	Rate	V.R.of Techometer JJG105	(20~1000) r/min (1000~40000) r/min	$U_{rel}=0.3\%$ $U_{rel}=0.12\%$		
13	Hydraulic Jack	Force Indication	V.R.of Hydraulic Jack JJG621	(10~5000) kN	$U_{rel}=0.53\%$		
14	Locomotive Pipette	capacity	V.R.of Locomotive Pipette JJG646	(1~10) μL (10~10000) μL	$U_{rel}=0.6\%$ $U_{rel}=0.1\%$		
15	Manipulating Force Tester for Automotive Brake	Force value (Pedal force meter)	Calibration Specification for Manipulating Force Tester for Automotive Brake JJF 1169	(100~1000) N	$U_{rel}=0.6\%$		
		Force value (Handbreak force meter)		(2~1000) N	$U_{rel}=0.4\%$		
Optics							
1	Abbe Refractometer	refractive index	Verification Regulation of Abbe Refractometer JJG625	1.3000~1.7000	$U=7 \times 10^{-5}$		
Chemistry							
1	*Spectrophotometer (UV-VIS)	Wavelength	V. R. of Ultraviolet 、 Visible、 Near-Infrared Spectrophotometers JJG178 JJG178	UV-VIS: (190~340)nm	$U=0.5nm$		
				UV-VIS: (340~900)nm	$U=0.6nm$		
				VIS: (340~900)nm	$U=0.6nm$		



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		Photometric		UV-VIS A:0% $\tau \sim 100\%$ τ	$U=0.4\%$		
				UV-VIS B:0% $\tau \sim 100\%$ τ	$U=0.6\%$		
				VIS:0% $\tau \sim 100\%$ τ	$U=0.6\%$		
2	Laboratory pH Meters	pH	V. R. of Laboratory pH Meters JJG119	Meter pH : 0~14	$U=0.01\text{pH}$		
				Match pH : 0~14	$U=0.02\text{pH}$		
3	Polarimeter and Polarimetric Saccharimeters	Polarimeter	V. R. of Polarimeter and Polarimetric Saccharimeters JJG536	Automatic: (-45~+45) °	$U=0.005^\circ$		
				Visual: (-45~+45) °	$U=0.06^\circ$		
		Polarimetric Sacchari		(-20~+105) ° Z	$U=0.01^\circ Z$		
4	Electrolytic Conductivity Meters	Conductivity	V. R. of Electrolytic Conductivity Meters JJG376	Electronic unit: (0.1~1 $\times 10^5$) $\mu\text{S/cm}$	$U_{\text{rel}}=0.3\%$		
				Instrument: 2 $\mu\text{S/cm} \sim 20\text{mS/cm}$	$U_{\text{rel}}=0.4\%$		
5	Ionmeter	mV	V. R. of Ionometer JJG757	(0~100) mV	$U=0.3\text{mV}$		
				(>100~2000) mV	$U=0.7\text{mV}$		
		pNa		pNa:0~8	pNa: $U=0.02$		
6	*Gas Chromatograph	Detection limit	V. R. of Gas Chromatograph JJG700	TCD sensitivity: $\geq 800\text{mV.ml/mg}$	$U_{\text{rel}}=5\%$		
				FID Detection limit: $\leq 0.5\text{ng/s}$	$U_{\text{rel}}=4\%$		
				ECD Detection limit: $\leq 5\text{pg/mL}$	$U_{\text{rel}}=5\%$		



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No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
				FPD Detection limit: S $\leq 0.5\text{ng/s}$ P $\leq 0.1\text{ng/s}$	$U_{\text{rel}}=5\%$		
				NPD Detection limit: N $\leq 5\text{pg/s}$ P $\leq 10\text{pg/s}$	$U_{\text{rel}}=5\%$		
7	*Liquid chromatograph	Minimum detected concentration	V. R. of Liquid chromatographs JJG705	UVD: $\leq 5 \times 10^{-8}\text{g/mL}$	$U_{\text{rel}}=8\%$		
				DAD: $\leq 5 \times 10^{-8}\text{g/mL}$	$U_{\text{rel}}=8\%$		
				FAD: $\leq 5 \times 10^{-9}\text{g/mL}$	$U_{\text{rel}}=8\%$		
				RID: $\leq 5 \times 10^{-6}\text{g/mL}$	$U_{\text{rel}}=9\%$		
				ELSD: $\leq 5 \times 10^{-6}\text{g/mL}$	$U_{\text{rel}}=9\%$		
8	*Atomic Absorption Spectrophotometer	Limited calculation	V. R. of Atomic Absorption Spectrophotometer JJG694	flame: $\leq 0.02 \mu\text{g/mL}$	$U=0.005 \mu\text{g/mL}$		
				graphite furnace: $\leq 4\text{pg}$	$U=0.4\text{pg}$		
9	*Ion Chromatograph	Minimum detecting limited concentration	V. R. of Ion Chromatographs JJG823	ECD: $\leq 0.02\text{mg/L}$	$U_{\text{rel}}=13\%$		
				UVD: $\leq 0.02\text{mg/L}$	$U_{\text{rel}}=13\%$		
				ED: $\leq 0.02\text{mg/L}$	$U_{\text{rel}}=13\%$		
10	*Mercury Analyzers	Detection limit	V. R. of Mercury Analyzers JJG548	Absorb type: $\leq 1.0\text{ng}$	$U_{\text{rel}}=9\%$		
				Fluorescence type: $\leq 0.1\text{ng}$	$U_{\text{rel}}=10\%$		
11	Carbon Dioxide Infrared Gas Analyzers	Concentration	V. R. of Carbon Monoxide and Carbon Dioxide Infrared Gas Analyzers JJG635	CO: (1~2000) $\mu\text{mol/mol}$	$U_{\text{rel}}=3.0\%$		
				CO ₂ : (1~25000) $\mu\text{mol/mol}$	$U_{\text{rel}}=2.0\%$		
12	Formaldehyde Gas Analyzer	Concentration	V. R. of Formaldehyde Gas Analyzers JJG1022	(0.02~1.5) $\mu\text{mol/mol}$	$U_{\text{rel}}=4\%$		



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No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
13	*Liquid Chromatography-Mass Spectrometer	S/N ratio	C. S. for Liquid Chromatography-Mass Spectrometers JJF1317	Triple quadrupole (ESI+, APCI+) : $\geq 30:1$, Triple quadrupole (ESI-) : $\geq 10:1$, Single quadrupole, ion trap: $\geq 10:1$	$U_{rel}=9\%$		
14	Dissolved Oxygen Meter	Dissolved Oxygen Concentration	V. R. of Dissolved Oxygen Meters JJG291	(0~20) mg /L	$U=0.05\text{mg /L}$		
15	*Gas Chromatography-Mass Spectrometers	S/N ratio	C. S. for Gas Chromatography-Mass Spectrometers JJF1164	IT、SQ、TQ: $\geq 10:1$; TOF、EOT: $\geq 50:1$	$U_{rel}=15\%$		
16	*Alarmer Detector of Combustible Gas	Gas Concentration	V. R. of Alarmer Detector of Combustible Gas JJG693	(1~100)%LEL	$U_{rel}=2.8\%$		
17	*Carbon Monoxide Detector	Gas Concentration	V. R. of Carbon Monoxide Detectors JJG915	(1~2000) $\times 10^{-6}\text{mol/mol}$	$U_{rel}=3.5\%$		
18	*Sulfur Hydrogen Gas Detectors	Gas Concentration	V. R. of Sulfur Hydrogen Gas Detectors JJG695	(1~200) $\times 10^{-6}\text{mol/mol}$	$U_{rel}=3.7\%$		
19	*Oxygen Analyzer and Oxygen Detector	Gas Concentration	V. R. of Electrochemical Oxygen Meter JJG365	(0.1~100)%	$U_{rel}=2.0\%$		
20	*Fourier Transform Infrared Spectrometers	Wavelength	C. S. for Fourier Transform Infrared Spectrometers JJF1319	(4000~400) cm^{-1}	$U=0.3\text{cm}^{-1}$		
21	*Inductively Coupled Plasma Mass	Detection limit	C. S. for Quadrupole Inductively Coupled Plasma Mass Spectrometers JJF1159	Be: $\leq 30\text{ng.L}^{-1/\text{sup}}$	$U_{rel}=11\%$		
				In: $\leq 10\text{ng.L}^{-1}$	$U_{rel}=12\%$		



No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
	Spectrometers	Sensitivity		Bi: $\leq 10 \text{ng}\cdot\text{L}^{-1}$	$U_{\text{rel}}=11\%$		
				Be: $\geq 5 \text{Mcps}/(\text{mg}\cdot\text{L}^{-1})$	$U_{\text{rel}}=8\%$		
				In: $\geq 30 \text{Mcps}/(\text{mg}\cdot\text{L}^{-1})$	$U_{\text{rel}}=7\%$		
				Bi: $\geq 20 \text{Mcps}/(\text{mg}\cdot\text{L}^{-1})$	$U_{\text{rel}}=7\%$		
22	*Elemental Analyzers	Concentration	C. S. for Elemental Analyzers JF1321	Kjeldahl nitrogen: 0.1%~50%	$U_{\text{rel}}=1.6\%$	Accredited only for Kjeldahl nitrogen determinator.	
23	*Carbon- sulfur Analyzer	Content	V. R. of Carbon-sulfur Analyzers JJG395	C: 0.005%~0.010%	$U=0.002\%$		
				C: >0.010%~0.100%	$U=0.005\%$		
				C: >0.100%~1.000%	$U=0.006\%$		
				C: >1.00%~4.00%	$U=0.03\%$		
				S: 0.003%~0.010%	$U=0.001\%$		
				S: >0.010%~0.100%	$U=0.002\%$		
				S: >0.100%~0.200%	$U=0.008\%$		
24	*Emission Spectrometer	Detection limit	V. R. of Emission Spectrometers JJG768	ICP: Zn $\leq 0.003 \text{mg/L}$	$U_{\text{rel}}=13\%$		
				ICP: Ni $\leq 0.01 \text{mg/L}$	$U_{\text{rel}}=14\%$		
				ICP: Mn $\leq 0.002 \text{mg/L}$	$U_{\text{rel}}=14\%$		
				ICP: Cr $\leq 0.007 \text{mg/L}$	$U_{\text{rel}}=13\%$		

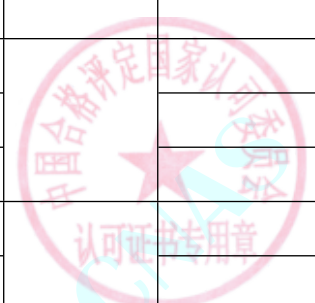


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No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
		Detection limit		ICP: Cu ≤ 0.007 mg/L	$U_{rel}=11\%$		
				ICP: Ba ≤ 0.001 mg/L	$U_{rel}=13\%$		
				Direct reading spectrometer: C $\leq 0.005\%$	$U_{rel}=19\%$		
				Direct reading spectrometer: Si $\leq 0.005\%$	$U_{rel}=18\%$		
				Direct reading spectrometer: Mn $\leq 0.003\%$	$U_{rel}=18\%$		
				Direct reading spectrometer: Cr $\leq 0.003\%$	$U_{rel}=18\%$		
				Direct reading spectrometer: Ni $\leq 0.005\%$	$U_{rel}=19\%$		
				Direct reading spectrometer: V $\leq 0.001\%$	$U_{rel}=20\%$		
25	Automatic Potentiometric Titrator	mV	V. R. of Automatic Potentiometric Titrator JJG814	(-2000~-100) mV	$U=0.7$ mV		
			(-100~100) mV	$U=0.3$ mV			
			(>100~2000) mV	$U=0.7$ mV			
26	*Frame Photometer	Detection limit	V. R. of Frame Photometer JJG630	K: ≤ 0.004 mmol/L	$U_{rel}=11\%$		
				Na: ≤ 0.008 mmol/L	$U_{rel}=12\%$		
27	*Fluorescence	Detection	V. R. of Fluorescence	A type: $\leq 5 \times 10^{-10}$ g/mL	$U=1 \times 10^{-10}$ g/mL		



No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
	Spectrophotometer	limit	Spectrophotometers JJG537	B type: $\leq 1 \times 10^{-8}$ g/mL	$U=2 \times 10^{-9}$ g/mL		
28	VOC Detector	Gas Concentration	C. S. for Volatile Organic Compounds Photo Ionization Detectors JJF1172	$(1 \sim 1000) \times 10^{-6}$ mol/mol	$U_{rel}=2.2\%$		
29	*Sulfur Dioxide Gas Detector	Gas Concentration	V. R. of Sulfur Dioxide Gas Detectors JJG551	$(0.1 \sim 1000) \times 10^{-6}$ mol/mol	$U_{rel}=2.4\%$		
30	Ammonia Gas Detector	Gas Concentration	V. R. of Ammonia Gas Detectors JJG1105	$(1 \sim 100) \times 10^{-6}$ mol/mol	$U_{rel}=3\%$		
31	Residual Chlorine Meter	Concentration	C. S. for Residual Chlorine Meter JJF1609	Total: $(0.02 \sim 5.00)$ mg/L	$U_{rel}=2\%$		
				Free: $(0.02 \sim 5.00)$ mg/L	$U_{rel}=3\%$		
32	Hand Saccharimeter(content-meter)and Hand Refractometer	Concentration	V. R. of Hand Saccharimeter(content-meter)and Hand Refractometer JJG820	$(1 \sim 80) \%$	$U_{rel}=2\%$		
		Refractivity		1.3330~1.5200	$U=8 \times 10^{-4}$		
33	*Atomic Fluorescence Spectrophotometer	Limited calculation	V. R. of Atomic Fluorescence Spectrophotometers JJG939	As: ≤ 0.4 ng	$U=0.04$ ng		
				Sb: ≤ 0.4 ng	$U=0.03$ ng		
34	Turbidimeters	Turbidity	V. R. of Turbidimeters JJG880	$(0.1 \sim 1000)$ NTU	$U_{rel}=4\%$		
35	Chemical Oxygen Demand(COD) Meters	Concentration	V. R. of Chemical Oxygen Demand(COD) Meters JJG975	A type: $(1 \sim 1000)$ mg/L	$U_{rel}=3\%$		
36	*Total Organic Carbon Analyzer	Concentration	V. R. of Total Organic Carbon Analyzer JJG821	TOC: $(0.1 \sim 1000)$ mg/L	$U_{rel}=3\%$		
37	*Analyzers for Oil Content in Water	Concentration	V. R. of Analyzers for Oil Content in Water JJG 950	$(0 \sim 10)$ mg/L	$U=0.2$ mg/L		
				$(>10 \sim 1000)$ mg/L	$U_{rel}=3\%$		

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38	*Melting-point Measurement Instruments	Capillary Melting-point	V. R. of Melting-point Measurement Instruments JJG701	(50~300)°C	$U=0.2^{\circ}\text{C}(0.2^{\circ}\text{C}/\text{min})$		
				(50~300)°C	$U=0.3^{\circ}\text{C}(1.0^{\circ}\text{C}/\text{min})$		
39	*Ozone Gas Analyzers	Gas Concentration	V. R. of Ozone Gas Analyzers JJG 1077	(0.02~1.00) μ mol/mol	$U_{\text{rel}}=3\%$		
				(>1.00~400) μ mol/mol	$U_{\text{rel}}=6\%$		
40	*Automatic Amoni Acid Analyzer	Detection limit	V. R. of Automatic Amoni Acid Analyzer JJG 1064	His: $\leq 1\text{nmol}$	$U_{\text{rel}}=14\%$		
41	*Micro Oxygen Analyzers	Concentration	Verification Regulation of Micro Oxygen Analyzers JJG945	(0.1~10) $\times 10^{-6}$ mol/mol	$U_{\text{rel}}=1.7\%$		
				(10.1~100) $\times 10^{-6}$ mol/mol	$U_{\text{rel}}=1.0\%$		
				(100.1~1000) $\times 10^{-6}$ mol/mol	$U_{\text{rel}}=1.0\%$		
42	*Determinators for Total Sulfur in Coal	Concentration	Verification Regulation of Determinators for Total Sulfur in Coal JJG1006	(0.01~1.00) %	$U=0.05\%$		
				(1.01~4.00) %	$U=0.07\%$		
				(4.01~6.00) %	$U=0.16\%$		
43	*Liquid chromatograph-Atomic Fluorescence Spectrometers	Minimum detecting limited concentration	Verification Regulation of Liquid chromatograph-Atomic Fluorescence Spectrometers JJG1151	As(V): <1.0ng	$U=0.02\text{ng}$		
				MMA: <0.7ng	$U=0.01\text{ng}$		
				DMA: <0.7ng	$U=0.01\text{ng}$		
44	*Flow Analyzers with Spectrophotography	Limited calculation	Calibration Specification for Flow Analyzers with Spectrophotography JJF1568	cyanide: (0~0.1) mg/L	$U=0.0003\text{mg}$		
				Volatile phenol in water: (0~0.1) mg/L	$U=0.0002\text{mg/L}$		



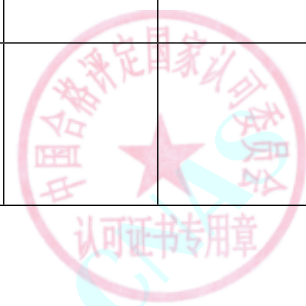
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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty ($k=2$)	Note	Effective Date
				Hexavalent chromium: (0~1) mg/L	$U=0.0004\text{mg/L}$		
				cyanide: (0~0.1) mg/L	$U=0.0006\text{mg/L}$		
				Total phosphorus: (0~ 5) mg/L	$U=0.003\text{mg/L}$		
				Total nitrogen: (0~ 5) mg/L	$U=0.004\text{mg/L}$		
				Ammonia nitrogen: (0~5) mg/L	$U=0.005\text{mg/L}$		
				Anion active detergent: (0~5) mg/L	$U=0.005\text{mg/L}$		
45	*Medical Diagnostic X-ray Radiation Source	Air Kerma Rate	Verification Regulation of Medical Diagnostic X-ray Radiation Source JJG744	0.1mGy/min~1Gy/min	$U_{\text{rel}}=9\%$		
46	*Medical Diagnostic X-ray Radiation Source for Spiral Computed Tomography (CT)	CTDI	Verification Regulation of Medical Diagnostic X-ray Radiation Source for Spiral Computed Tomography (CT) JJG 961	0.1mGy~ 1Gy	$U_{\text{rel}}=5\%$		
47	*Medical Diagnostic X-ray Radiation Source for Dental Panorama	Air Kerma Rate	Verification Regulation of Medical Diagnostic X-ray Radiation Source for Dental Panorama JJG 1101	0.1mGy/min~1Gy/min	$U_{\text{rel}}=5\%$		

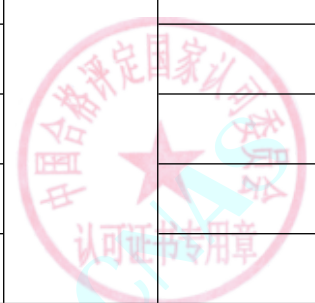


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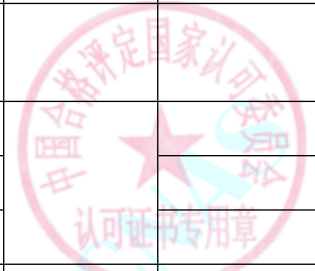
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48	*X-ray Radiation Sources for Medical Computed Radiography System and Digital Radiography System	Air Kerma	Verification Regulation of X-ray Radiation Sources for Medical Computed Radiography System and Digital Radiography System JIG 1078	0.1mGy~100mGy	$U_{rel}=6\%$		
Special							
1	*Automobile Slip tester	Displacement	V.R.of Automobile Side Slip Tester JIG908	(-10~10) m/km	$U=0.1$ m/km		
		Force		(10~150)N	$U=6$ N		
2	*Axle (Wheel) Load Scales for Motor Vehicle Test	Mass	V.R.of Special Axle (Wheel) Load Scales for Motor Vehicle Test JIG1014	20kg~10t	$U_{rel}=0.3\%$		
3	*Roller Type Speedometer Tester	speed	V.R.of Roller Type Speedometer Tester JIG909	(20~100)km/h	$U_{rel}=1.4\%$		
		Length		(100~250)mm	$U_{rel}=0.26\%$		
4	*Vehicle Exhaust Emission Measuring Instruments	Gas Concentration	V. R. of Vehicle Exhaust Emission Measuring Instruments JIG688	HC: (10~9999)×10 ⁻⁶ mol/mol	$U_{rel}=1.2\%$		
				CO: (0.1~14.00)×10 ⁻² mol/mol	$U_{rel}=1.8\%$		
				CO ₂ : (0.1~18.0)×10 ⁻² mol/mol	$U_{rel}=1.6\%$		
				NO: (10~5000)×10 ⁻⁶ mol/mol	$U_{rel}=2.2\%$		
				O ₂ : (0.1~25.0)×10 ⁻² mol/mol	$U_{rel}=1.4\%$		
5	*Roller Opposite Forces Type Brake	Force	V.R.of Roller Opposite Forces Type Brake Tester	(10~30000)N	$U_{rel}=1.4\%$	Only Static	



No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
	Tester	adhesion coefficient	JJG906	0.10~0.98	U=0.08		
6	*Headlamp Testers for Motor Vehicle	Luminous intensity	V.R. of Headlamp Tester for Motor Vehicle JJG745	(8000~60000) cd	U _{rel} =6.3%		
		Offset of optical axis		up (0~20)cm/dam down(0~40)cm/dam left(0~40)cm/dam right(0~40)cm/dam	U=1.2cm/dam		
7	ELISA Analytical Instrument	Absorbance	V. R. of ELISA Analytical Instrument JJG861	0.2~1.5	U=0.012		
8	*Cement Mortar Mixer Complying	Rate	V.R. of The planet type mortar mixer JJG (construction material) 123	(62~300)r/min	U _{rel} =1.2%		
		Time		(20~130)s	U _{rel} =1.3%		
		Length		(7~9)mm	U _{rel} =0.6%		
9	*Mixer for Cement Paste	Rate	V.R. of Mixer for Cement Paste (JC) 104	(62~300)r/min	U _{rel} =1.2%		
		Time		(20~130)s	U _{rel} =1.3%		
		Length		(5~6.5)mm	U _{rel} =0.7%		
10	*transmittance meter of automobile	transmittance	Calibration Specification for Transmittance Meter of Automobile JJF1225	(0~100)%	U=0.70%		
11	*Chassis Dynamometers for Automobile Emissions Testing	Speed	C.S for Chassis Dynamometers for Automobile Emissions Testing JJF1221	(0~100)km/h	U=0.1 km/h		
		Torque	(5~2450)N	U _{rel} =0.8%			
		Time	(0~900) s	U=1.4s			
12	*Lung Ventilator	Tidal Volume	Calibration Specification for Lung Ventilators JJF1234	(0.2~1) L	U _{rel} =5%		

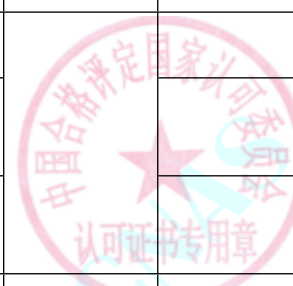


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№	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
13	Cardiac Defibrillator	Energy	Calibration Specification for Cardiac Defibrillators JJF1149	(2~100)J	$U_{rel}=4\%$		
				(>100~360)J	$U_{rel}=3\%$		
14	Syringe Pump and Infusion Pump	Flow	Calibration Specification for Syringe Pumps and Infusion Pumps JJF1259	(5~<20) mL/h	$U_{rel}=2.6\%$		
				(20~200) mL/h	$U_{rel}=1.4\%$		
				(>200~1000) mL/h	$U_{rel}=2.4\%$		
15	Motor Vehicle Tester for Steering Force and Steering Angle	Torque	C.S of Motor Vehicle Testers for Steering Force and Steering Angle JJF1196	(20~100) Nm	$U_{rel}=1.1\%$		
		Angel		-1080° ~ 1080°	$U=0.8^\circ$		
16	*Engine Speed Measuring Instruments	Rate	C.S for Motor Vehicle Engine Speed Measuring Instruments JJF1375	(500~6000) r/min	$U_{rel}=0.26\%$		
17	*Sphygmomanometer	Pressure	Verification Regulation of Sphygmomanometer JJG270	(0~40) kPa	$U=0.2\text{kPa}$		
18	*Non-invasive automated Sphygmomanometers	Pressure	Verification Regulation of Non-invasive automated Sphygmomanometers JJG692	(0~40) kPa	$U=0.2\text{kPa}$		
19	*the diesel vehicle nitrogen oxides measuring instruments	Nitric Oxide concentration	the diesel vehicle nitrogen oxides (NOx) measuring instruments JJF 1873	$(1\sim 4000) \times 10^{-6}$	$U_{rel}=1.1\%$		
		Nitrogen Dioxide concentration		$(1\sim 1000) \times 10^{-6}$	$U_{rel}=3\%$		
		Carbon Dioxide concentration		$(0.1\sim 18.0) \times 10^{-2}$	$U_{rel}=1.7\%$		
20	*retroreflection coefficient meters for motor vehicle's	retroreflection coefficient	Calibration specification of retroreflection coefficient meters for motor vehicle's	white: $(20\sim 350) \text{cd} \cdot \text{lx}^{-1} \cdot \text{m}^{-2}$,	$U_{rel}=4.0\%$		

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No	Instrument	Measurand	Calibration Method	Range	Expanded Uncertainty (k=2)	Note	Effective Date
	reflecting Marking		reflecting Marking JJF 1747	yellow: (15~300) cd · lx ⁻¹ · m ⁻²	U _{rel} =4.0%		
				red: (10~60)cd · lx ⁻¹ · m ⁻²	U _{rel} =4.0%		
				green: (5~80) cd · lx ⁻¹ · m ⁻²	U _{rel} =4.0%		
				blue: (2~40) cd · lx ⁻¹ · m ⁻²	U _{rel} =4.0%		
				brown: (20~40) cd · lx ⁻¹ · m ⁻²	U _{rel} =4.0%		

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