机构名称：深圳市华测计量技术有限公司

注册号：L5102

地　址：

A：广东省深圳市宝安区西乡街道桃花源科技创新园 C 栋

获准认可能力索引

序号	地址	能力范围	评审类型	更新时间
1	A	授权签字人(中文)	复评+扩项	2014 年 05 月 16 日
2		授权签字人(英文)	复评+扩项	2014 年 05 月 16 日
3		授权签字人(中文)	扩项	2015 年 3 月 18 日
4		授权签字人(英文)	扩项	2015 年 3 月 18 日
5		授权签字人(中文)	监督+扩项	2015 年 06 月 11 日
6		授权签字人(英文)	监督+扩项	2015 年 06 月 11 日
7	A	检测能力(中文)	复评+扩项	2014 年 05 月 16 日
8		检测能力(英文)	复评+扩项	2014 年 05 月 16 日
9	A	校准能力(中文)	复评+扩项	2014 年 05 月 16 日
10		校准能力(英文)	复评+扩项	2014 年 05 月 16 日
11		校准能力(中文)	扩项	2015 年 3 月 18 日
12		校准能力(英文)	扩项	2015 年 3 月 18 日
13		校准能力(中文)	监督+扩项	2015 年 06 月 11 日
14		校准能力(英文)	监督+扩项	2015 年 06 月 11 日

Should there be any inconsistencies between Chinese and English versions of the scope of accreditation, the Chinese version shall prevail in that the English version is provided by the conformity assessment body and is for reference only.

Name：CTI Metrology Technology Co., Ltd.

Registration No.：L5102

ADDRESS：

A: Building C, Taohuayuan Innovation Park, Xixiang, Bao'an District, Shenzhen, Guangdong, China

INDEX OF ACCREDITED SIGNATORIES

No.	Address	Range	Type	Update date
1	A	Approved signatories (Chinese)	Reassessment +Extending assessment	2014-05-16
2		Approved signatories (English)	Reassessment +Extending assessment	2014-05-16
3		Approved signatories (Chinese)	Extending assessment	2015-3-18
4		Approved signatories (English)	Extending assessment	2015-3-18
5		Approved signatories (Chinese)	Surveillance+ Extending assessment	2015-06-11
6		Approved signatories (English)	Surveillance+ Extending assessment	2015-06-11
7	A	Testing ability(Chinese)	Reassessment +Extending assessment	2014-05-16
8		Testing ability(English)	Reassessment +Extending assessment	2014-05-16
9	A	Calibration ability(Chinese)	Reassessment +Extending assessment	2014-05-16

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No.	Address	Range	Type	Update date
10		Calibration ability(English)	Reassessment +Extending assessment	2014-05-16
11		Calibration ability(Chinese)	Extending assessment	2015-3-18
12		Calibration ability(English)	Extending assessment	2015-3-18
13		Calibration ability(Chinese)	Surveillance+ Extending assessment	2015-06-11
14		Calibration ability(English)	Surveillance+ Extending assessment	2015-06-11

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中 国 合 格 评 定 国 家 认 可 委 员 会

认 可 证 书 附 件

（注册号：CNAS L5102）

名称：深圳市华测计量技术有限公司

地址：广东省深圳市宝安区西乡街道桃花源科技创新园 C 栋

签发日期：2014 年 05 月 16 日　　有效期至：2017 年 05 月 15 日

更新日期：2014 年 05 月 16 日

附件 1 认可的授权签字人及领域

序号	姓　名	授权签字领域	备　注
1	刘文静	全部校准项目及几何量检测项目	
2	陈世郁	全部校准项目及几何量检测项目	
3	周建国	几何量检测、长度校准项目	
4	侯明	热工和力学校准项目	
5	谭贝	热工和力学校准项目	
6	李鹏辉	理化和光学校准项目	

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CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT

APPENDIX OF ACCREDITATION CERTIFICATE

(Registration No. CNAS L5102)

NAME: CTI Metrology Technology Co., Ltd.

ADDRESS: Building C, Taohuayuan Innovation Park, Xixiang, Bao'an District, Shenzhen, Guangdong, China

Date of Issue: 2014-05-16 **Date of Expiry: 2017-05-15**

Date of Update：2014-05-16

APPENDIX 1 ACCREDITED SIGNATORIES AND SCOPE

№	Name	Authorized Scope of Signature	Note
1	Lily Liu	All items of calibration and Geometrical product Testing	
2	Chen Shiyu	All items of calibration and Geometrical product Testing	
3	Zhou Jianguo	Geometrical product Testing items，Length calibration items	
4	Hou Ming	Temperature and Mechanics calibration items	
5	Tan Bei	Temperature and Mechanics calibration items	
6	Li Penghui	Physical chemistry and Optics calibration items	

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中 国 合 格 评 定 国 家 认 可 委 员 会

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（注册号：CNAS L5102）

名称：深圳市华测计量技术有限公司

地址：广东省深圳市宝安区西乡街道桃花源科技创新园 C 栋

认可依据：ISO/IEC 17025:2005 以及 CNAS 特定认可要求

签发日期：2014 年 05 月 16 日　　有效期至：2017 年 05 月 15 日

更新日期：2014 年 05 月 16 日

附件 2　认可的检测能力范围

序号	检测对象	项目/参数		领域代码	检测标准（方法）名称及编号（含年号）	限制范围	说明
		序号	名称				
1	机械零部件（几何参数）	1	尺寸	1303	GB/T 1958-2004 产品几何量技术规范（GPS）形状和位置公差 检测规定	(900×1200×800)mm	
		2	角度				
		3	直 线 度				
		4	平 面 度				
		5	圆 度				
		6	圆 柱 度				
		7	线轮廓度				
		8	面轮廓度				

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序号	检测对象	项目/参数		领域代码	检测标准（方法）名称及编号（含年号）	限制范围	说明
		序号	名称				
1	机械零部件（几何参数）	9	平 行 度	1303	GB/T 1958-2004 产品几何量技术规范（GPS）形状和位置公差 检测规定	(900×1200×800)mm	
		10	垂 直 度				
		11	倾 斜 度				
		12	位 置 度				
		13	同轴(同心)度				
		14	对 称 度				
		15	圆 跳 动				
		16	全 跳 动				

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APPENDIX OF ACCREDITATION CERTIFICATE

(Registration No. CNAS L5102)

NAME: CTI Metrology Technology Co., Ltd.

ADDRESS: Building C, Taohuayuan Innovation Park, Xixiang, Bao'an District, Shenzhen, Guangdong, China

Accreditation Criteria: ISO/IEC 17025:2005 and relevant requirements of CNAS

Date of Issue: 2014-05-16 **Date of Expiry: 2017-05-15**

Date of Update：2014-05-16

APPENDIX 2 ACCREDITED TESTING

№	Test Object	Item/Parameter		Code of Field	Title, Code of Standard or Method	Limitation	Note
		№	Item/ Parameter				
1	Mechanical parts（Geometrical parameters）	1	Dimension	1303	GB/T 1958-2004 Geometrical Porduct Specifications(GPS) -Geometrical Tolerance-Verification Prescription	（900×1200×800）mm	
		2	Angular				
		3	Straightness				
		4	Flatness				
		5	Circularity				
		6	Cylindricity				
		7	Line Profile				
		8	Surface Profile				
		9	Parallelism				

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№	Test Object	Item/Parameter		Code of Field	Title, Code of Standard or Method	Limitation	Note
		№	Item/ Parameter				
1	Mechanical parts（Geometrical parameters）	10	Perpendicularity	1303	GB/T 1958-2004 Geometrical Porduct Specifications(GPS) -Geometrical Tolerance-Verification Prescription	（900×1200×800）mm	
		11	Angularity				
		12	Position				
		13	Coaxiality(Concentricity)				
		14	Symmetry				
		15	Circular Run-out				
		16	Total Run-out				

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中 国 合 格 评 定 国 家 认 可 委 员 会

认 可 证 书 附 件

（注册号：CNAS L5102）

名称：深圳市华测计量技术有限公司

地址：广东省深圳市宝安区西乡街道桃花源科技创新园 C 栋

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签发日期：2014 年 05 月 16 日　　有效期至：2017 年 05 月 15 日

更新日期：2014 年 05 月 16 日

附件 3 认可的校准能力范围

序号	测量仪器名称	校准参量	领域代码	规范代号（含年号）名称	测量范围		扩展不确定度（校准和测量能力，k=2）	限制说明	备注
1	通用卡尺	长度	1303	JJG30-2012《通用卡尺》	数显卡尺	(0～600)mm	U=0.01mm		
						(>600～1000)mm	U=0.02mm		
					游标卡尺	(0～600)mm	U=0.01mm		
						(>600～1000)mm	U=0.02mm		
					带表卡尺	(0～300)mm	U=0.01mm		
					深度卡尺	(0～600)mm	U=0.01mm		
2	高度卡尺	长度	1303	JJG31-2011《高度卡尺》	(0～600)mm		U=0.01mm		

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序号	测量仪器名称	校准参量	领域代码	规范代号（含年号）名称	测量范围		扩展不确定度（校准和测量能力，k=2）	限制说明	备注
2	高度卡尺	长度	1303	JJG31-2011《高度卡尺》	（＞600～1000）mm		U=0.02mm		
3	千分尺	长度	1303	JJG21-2008《千分尺》	数显(0～75)mm		U=1μm		
					数显(75～500)mm		U=2μm		
					(0～500)mm		U=2μm		
				JJF1088-2002《外径千分尺》(测量范围500mm～3000mm)	(500～1000)mm		U=(3+5L)μm L-m		
				JJG21-2008《千分尺》	校对杆(0～500)mm		U=(0.6+2L)μm L-m		
4	深度千分尺	长度	1303	JJG24-2003《深度千分尺》	(0～300)mm		U=(1+5L)μm L-m		
5	内径千分尺	长度	1303	JJG22-2003《内径千分尺》	(25～500)mm		U=(1.5+5L)μm L-m		
6	内测千分尺	长度	1303	JJF1411-2013《测量内尺寸千分尺》	(3～150)mm		U=2μm		
7	杠杆千分尺 杠杆卡规	长度	1303	JJG26-2011《杠杆千分尺、杠杆卡规》	(0～100)mm		U=1.2μm		
8	公法线千分尺	长度	1303	JJG82-2010《公法线千分尺》	≤200mm		U=2μm		
9	带表千分尺	长度	1303	JJG427-2004《带表千分尺》	（0～100）mm		U=1.2μm		
10	百分表式卡规	长度	1303	JJG109-2004《百分表式卡规》	≤150mm		U=3.0μm		
11	带表卡规	长度	1303	JJF1253-2010《带表卡规》	（0.5～100）mm	分度值0.005mm	U=0.007mm		
						分度值0.01mm	U=0.016mm		

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11	带表卡规	长度	1303	JJF1253-2010《带表卡规》	（0.5～100）mm	分度值0.02mm	U=0.031mm		
12	平尺	直线度	1303	JJF1097-2003《平尺》	(400～6300)mm		U=(0.5+0.6L)μm L:m		
13	水平尺	角度	1303	JJF1085-2002《水平尺》	(200～1200)mm		U_{rel}=8％		
14	塞尺	长度	1301	JJG62-2007《塞尺》	(0.02～3.00)mm		U=1μm		
15	钢直尺	长度	1303	JJG1-1999《钢直尺》	（0～2000）mm		U=(0.05+0.02L)mm L-m		
16	钢卷尺	长度	1303	JJG4-1999《钢卷尺》	(0～200)m		U=(0.1+0.02L)mm L-m		
17	直角尺	角度	1303	JJG7-2004《直角尺》	(0～63)mm		U=0.5μm		
					(＞63～125)mm		U=1.0μm		
					(＞125～315)mm		U=2.0μm		
					(＞315～500)mm		U=3.0μm		
					线纹直角尺(0～500)mm		U=0.01mm		
18	木直(折)尺	长度	1303	JJG2-1999《木(直)折尺》	≤3000mm		U=0.2mm		
19	斜塞尺/间隙尺/楔形塞尺	长度	1303	JJF1110-2003《建筑工程质量检测器组》	(0～15)mm		U=0.04mm		
20	柔性周径尺	长度	1308	JJG670-1990《柔性周径尺》	(0～211)cm		U=0.1mm		
21	纤维卷尺测绳	长度	1303	JJG5-2001《纤维卷尺、测绳》	≤200m		U=(1.0+0.04L)mm L-m		
22	刀口形直尺	直线度	1303	JJG63-2007《刀口形直尺》	≤300mm		U=0.3μm		

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序号	测量仪器名称	校准参量	领域代码	规范代号（含年号）名称	测量范围		扩展不确定度（校准和测量能力，k=2）	限制说明	备注
23	千分表	长度	1303	JJG34-2008《指示表(指针式 数显式)》	(0～5)mm	分度值0.001mm	U=(1.0+0.3L)μm L-mm		
						分度值0.002mm	U=(1.2+0.3L)μm L-mm		
24	百分表	长度	1303	JJG34-2008《指示表(指针式 数显式)》	(0～10)mm		U=3μm		
25	大量程百分表	长度	1303	JJG379-2009《大量程百分表》	(0～50)mm		U=5μm		
26	杠杆千分表	长度	1303	JJG35-2006《杠杆表》	(0～1)mm		U=1.2μm		
27	杠杆百分表	长度	1303	JJG35-2006《杠杆表》	(0～5)mm		U=3μm		
28	内径表	长度	1303	JJF1102-2003《内径表》	内径百分表(2～450)mm		U=3μm		
					内径千分表(10～400)mm		U=1.1μm		
29	深度指示表	长度	1303	JJG830-2007《深度指示表》	(0～100)mm		U=3μm		
30	量块	长度	1308	JJG146-2011《量块》	(0.5～500)mm		U=(0.15+1.5L)μm L-m		
31	步距规	长度	1304	Q/CTIC 02031-2013《步距规校准方法》	(0～600)mm		U=(1.5+1.5L)μm L-m		
32	卡尺校正器	长度	1304	Q/CTIC 02031-2013《步距规校准方法》	(0～600)mm		U=(1.5+1.5L)μm L-m		

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序号	测量仪器名称	校准参量	领域代码	规范代号（含年号）名称	测量范围		扩展不确定度（校准和测量能力，k=2）	限制说明	备注
33	工作用玻璃线纹尺	长度	1308	Q/CTIC 02028-2013《线纹尺校准方法》	（0～300）mm		U=1.1μm		
34	平板	平面度	1303	JJG117-2013《平板》	(2000×3000)mm		U=(0.6+0.7L) μm L-m 对角线		
35	刮板细度计 漆膜涂布器	长度	1309	JJG905-2010《刮板细度计》	(0～150)μm		U=0.5μm		
36	光学计	长度	1309	JJG45-1999《光学计》	(0～180)mm		U=0.11μm		
37	指示类量具检定仪	长度	1309	JJG201-2008《指示类量具检定仪》	(0～50)mm		U=1.0μm		
					(0～5)mm		U=0.3μm		
38	磁性、电涡流式覆层厚度测量仪	长度	1309	JJG818-2005《磁性、电涡流式覆层厚度测量仪》	(0～1)mm		U=1.1μm		
					(＞1～10)mm		U=2.1μm		
		长度			膜厚片厚度	(0～100)μm	U=0.5μm		
						(＞100～1000)μm	U=2.5μm		
39	厚度表	长度	1303	JJF1255-2010《厚度表》	≤30mm		U=2μm		
40	超声波测厚仪	长度	1309	JJF1126-2004《超声波测厚仪》	(0.5～200)mm		U=(0.01+0.2L）mm L-m		

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41	X 射线荧光镀层测厚仪	长度	1309	JJF1306-2011《X 射线荧光镀层测厚仪》	(0～15) μm	U_{rel}=6%	只测 Au、Ag、Cu、Ni、Pd、Sn、Zn、Cr、SnPb 元素	
		长度	1309		标准片厚度(0～15) μm	U_{rel}=6.4%		
42	织物厚度仪	长度	1309	JJF(纺织) 020-2010《织物厚度仪》	≤10mm	U=1.4μm		
		质量			≤500g	U=0.05g		
43	锡膏厚度测试仪	长度	1303	Q/CTIC 02030-2013《锡膏测厚仪校准方法》	（0～1000） μm	U=4μm		
44	锡膏厚度测试仪标准块	长度	1308	Q/CTIC 02029-2013《锡膏测厚标准块校准方法》	（0～1000） μm	U=1.7μm		
45	表面粗糙度测量仪	粗糙度	1309	JJF1105-2003《触针式表面粗糙度测量仪》	Ra：(0.012～12.50) μm	U_{rel}=3％		
46	表面粗糙度比较样块	粗糙度	1308	JJF1099-2003《表面粗糙度比较样块校准规范》	Ra（0.025～25） μm	U_{rel}=6%		
47	半径样板	长度	1308	JJG58-2010《半径样板》	R (0.1～25.0)mm	U=(5+0.2L) μm L-mm		

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48	螺纹样板	长度	1309	JJG60-2012《螺纹样板》	螺距(0.40～6.00)mm	U=(2+0.4L) μm L-mm		
49	三针	长度	1301	JJF1207-2008《针规、三针》	Φ(0.118～6.585)mm	U=0.3μm		
50	针规	长度	1308	JJF1207-2008《针规、三针》	≤Φ30mm	U=0.5μm		
51	平面平晶	平面度	1303	JJG28-2000《平晶》	D(30～100)mm	U=0.01μm		
52	平行平晶	平面度	1303	JJG28-2000《平晶》	(12～91)mm	U=0.01 μm		
		平行度				U=0.2μm		
53	计米器码表	长度	1303	JJG987-2004《线缆计米器》	≤10m	U_{rel}=1.4%		
					11m～200m	U_{rel}=0.2%		
					201m～100000m	U_{rel}=0.03%		
54	激光测径仪	长度	1309	JJF1250-2010《激光测径仪》	≤30mm	U=0.5μm		
55	数显指示表	长度	1303	JJG830-2007《深度指示表》	≤100mm	U=2μm		
56	数显测高仪	长度	1303	JJF1254-2010《数显测高仪》	(0～1000)mm	U=(0.8+1.0L) μm L-m		
57	螺纹塞规	长度	1301	JJF1345-2012《圆柱螺纹量规》	Φ(1～100)mm	U=2.0μm		
58	螺纹环规	长度	1301	JJF1345-2012《圆柱螺纹量规》	Φ（2～200）mm	U=3.0μm		
59	标准环规	长度	1301	JJG894-1995《标准环规》	Φ(1～200)mm	U=(1.0+0.01L）μm L-mm		
60	光滑极限量规	长度	1301	JJG343-2012《光滑极限量规》	塞规 (1～100)mm	U=0.5μm		

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60	光滑极限量规	长度	1301	JJG343-2012《光滑极限量规》	塞规	（＞100～160）mm	U=0.8μm		
					环规	（1～100）mm	U=0.5μm		
						（＞100～160）mm	U=1.0μm		
61	读数显微镜（百倍镜、十倍镜）	长度	1309	JJG571-2004《读数、测量显微镜》	（0～8）mm		U=2.0μm		
62	测量显微镜	长度	1309	JJG571-2004《读数、测量显微镜》	X：（0～50）mm		U=1.0μm		
					Y：（0～13）mm				
63	金相显微镜	长度	1308	JJG（教委）012-1996《金相显微镜》	物镜放大倍率（0.5～120）×		U_{rel}=1.0%		
64	生物显微镜	长度	1308	JJF1402-2013《生物显微镜》	≤10mm		U=4μm		
					物镜放大倍率（0.5～120）×		U_{rel}=1.0%		
65	体视显微镜	长度	1308	JJG（教委）012-1996《金相显微镜》	物镜放大倍率（0.5～120）×		U_{rel}=1.0%		
66	工具显微镜	长度	1309	JJG56-2000《工具显微镜》	（400×300）mm		U=(1.0+1.0L)		
67	电感测微仪	长度	1309	JJF1331-2011《电感测微仪》	（-1000～+1000）μm		U=0.4μm		
68	投影仪	长度	1309	JJF1093-2002《投影仪》	（400×300）mm		U=(1.0+3.5L)		
		角度			（0～360）°		U=2′		

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69	影像测量仪（二次元）	长度	1309	JJF1318-2011《影像测量仪》	(500×500)mm	U=(1.0+1.5L)μm L-m		
70	坐标测量机（三次元）	长度	1309	JJF1064-2010《坐标测量机》	(0～1000)mm	U=(1.5+3L/1000)μm L:mm		
71	角度块	角度	1308	JJG70-2004《角度块》	(0～90)°	U=9″		
72	万能角度尺	角度	1303	JJG33-2002《万能角度尺》	0° ～360°	U=1′		
73	组合式角度尺	角度	1303	JJF1132-2005《组合式角度尺》	(0～180)°	U=3′		
74	电子水平尺（角度规）	角度	1303	JJF1119-2004《电子水平尺》	0° ～360°，(0～100)mm	U=0.1°		
75	框式、条式水平仪	角度	1309	JJF1084-2002《框式水平仪和条式水平仪》	(0.02～0.15)mm/m	U_{rel}=4.0%		
76	水平仪检定器	角度	1309	JJG191-2002《水平仪检定器》	(0～1.5)mm/m	U_{rel}=1.9%		
77	正弦规	角度	1308	JJG37-2005《正弦规》	(0～90)°，(0～200)mm	U=2.0″		
78	方箱	垂直度	1303	JJG194-2007《方箱》	(100～500)mm	U=2.8μm		
79	V 型块	平面度	1303	JIS B 7540-1972《V 型块》	(0～200)mm	U=0.9μm		
		平行度				U=1.2μm		
		长度				U=1.2μm		
80	接触式干涉仪	长度	1309	JJG101-2004《接触式干涉仪》	(0～180)mm	U=0.01μm		

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81	测长机	长度	1309	JJF1066-2000《测长机》	(0～1000)mm		U=(0.5+5L)μm L-m		
82	测长仪	长度	1309	JJF1189-2008《测长仪》	(0～500)mm		U=(0.2+1.5L)μm L-m		
83	机械式比较仪	长度	1309	JJG39-2004《机械式比较仪》	(-300～+300) μm		U=0.6μm		
84	扭簧比较仪	长度	1309	JJG118-2010《扭簧比较仪》	(-300～+300) μm		U=0.2μm		
85	偏摆检查仪	长度	1308	JJF1109-2003《跳动检查仪》	≤500mm		U=1.5μm		
86	圆度仪	圆度	1308	JJG429-2000《圆度、圆柱度测量仪》	≤500 μm		U_{rel}=2.0%		
87	试验筛	长度	1309	JJF1175-2007《试验筛》	20 μm～125mm	ω ≤5mm	U=2.0μm		
						5mm＜ω ≤125mm	U=0.02mm		
88	气动测量仪	长度	1309	JJG356-2004《气动测量仪》	(0～400) μm		U=0.26μm		
89	直角尺检查仪	垂直度	1308	JJF1140-2006《直角尺检查仪》	（63～1000）mm		U=1.0μm		
90	焊接检验尺	长度	1303	JJG704-2005《焊接检验尺》	≤100mm		U=0.02mm		
		角度			≤160°		U=5′		
91	玩具类测试器（测试模板、小物件测试器、咬力测试器、锐尖测试器、可触及探头等）	长度	1303	Q/CTIC 02001-2013《玩具类测试器校准方法》	(0～1000)mm		U=(0.005+0.025L)mm L-m		

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91	玩具类测试器（测试模板、小物件测试器、咬力测试器、锐尖测试器、可触及探头等）	角度	1303	Q/CTIC 02001-2013《玩具类测试器校准方法》	(0～360)°	U=2′		
		力值			≤60N	U_{rel}=2%		
92	安规类测试器（试验指、试验针、试验探头、灯头量规、插头量规等）	长度	1303	Q/CTIC 02002-2013《安规类测试器校准方法》	(0～1000)mm	U=(0.005+0.025L)mm L-m		
		角度			(0～360)°	U=2′		
		力值			≤60N	U_{rel}=2%		
93	双金属温度计	温度	1501	JJG226-2001《双金属温度计》	(-30～+20)℃	U=(0.5～0.3)℃		
					(20～95)℃	U=0.4℃		
					(95～300)℃	U=(0.4～0.6)℃		
94	压力式温度计	温度	1501	JJG310-2002《压力式温度计》	(-30～+20)℃	U=(0.5～0.3)℃		
					(20～95)℃	U=0.5℃		
					(95～300)℃	U=(0.5～0.6)℃		
95	热敏电阻测温仪	温度	1501	JJF1379-2012《热敏电阻测温仪校准规范》	(-30～+20)℃	U=(0.25～0.10)℃		
					(20～95)℃	U=(0.10～0.16)℃		

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95	热敏电阻测温仪	温度	1501	JJF1379-2012《热敏电阻测温仪校准规范》	(95～200)℃	U=(0.16～0.18)℃		
96	工作用玻璃液体温度计	温度	1501	JJG130-2011《工作用玻璃液体温度计》	(-30～+20)℃	U=(0.12～0.07)℃	只做普通玻璃液体温度计	
					(20～95)℃	U=(0.06～0.10)℃		
					(95～300)℃	U=(0.10～0.20)℃		
97	石油产品用玻璃液体温度计	温度	1501	JJG130-2011《工作用玻璃液体温度计》	(-30～+20)℃	U=(0.12～0.07)℃	只做普通玻璃液体温度计	
					(20～95)℃	U=(0.06～0.10)℃		
					(95～300)℃	U=(0.10～0.20)℃		
98	电接点玻璃水银温度计	温度	1501	JJG131-2004《电接点玻璃水银温度计》	(-30～+20)℃	U=(0.12～0.07)℃		
					(20～95)℃	U=(0.06～0.10)℃		
					(95～300)℃	U=(0.10～0.20)℃		
99	工业铂、铜热电阻	温度	1501	JJG229-2010《工业铂、铜热电阻》	(-40～+300)℃	0℃: U=0.07℃ 100℃: U=0.10℃	不做AA级	
100	工作用廉金属热电偶	温度	1501	JJG351-1996《工作用廉金属热电偶》	(-30～+300)℃	U=0.3℃		
					(300～1000)℃	U=1.6℃		

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101	铠装热电偶	温度	1501	JJF1262-2010《铠装热电偶校准规范》	(-80~+300)℃	U=(0.7~0.9)℃		
					(300~1100)℃	U=(0.9~1.5)℃		
102	辐射温度计	辐射温度	1501	JJG856-1994《500℃以下工作用辐射温度计》	(50～500)℃；波长（8～14)μm	U=(1.8～3.3)℃		
103	热像仪	辐射温度	1501	JJF1187-2008《热像仪》	(50～500)℃；波长（8～14)μm	U=(1.8～3.3)℃		
104	机械式温湿度计	温度	1501	JJG205-2005《机械式温湿度计》	(5～50)℃	U=0.5℃		
		湿度	1517		(20～95)%RH	U=(1.5～1.6)%RH		
105	数字温湿度计（数字温湿度记录仪）	温度	1501	JJG205-2005《机械式温湿度计》JJF1076-2001《湿度传感器校准规范》	（5～50）℃	U=0.3℃		
		湿度	1517		（20～70）%RH	U=(1.8～1.7)%RH		
					（70～98）%RH	U=(1.7～1.8)%RH		
106	数字温度计	温度	1503	JJG617-1996《数字温度指示调节仪》	(-200～0)℃	U=(0.4～0.3)℃		
					(0～1300)℃	U=(0.3～0.6)℃		
107	数字温度计（带探头）	温度	1502	JJF(苏)95-2010《数字温度计校准规范》	(-30~+100)℃	U=(0.3~0.2)℃		

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107	数字温度计（带探头）	温度	1502	JJF(苏)95-2010《数字温度计校准规范》	(100~300)℃	U=(0.2~0.3)℃		
108	温度指示控制仪	温度	1501	JJG874-2007《温度指示控制仪》	(-30～+20)℃	U=(0.21～0.11)℃		
					(20～95)℃	U=(0.11～0.17)℃		
					(95～300)℃	U=(0.17～0.23)℃		
109	数字温度指示调节仪	温度	1502	JJG617-1996《数字温度指示调节仪》	(-200～0)℃	U=(0.4～0.3)℃		
					(0～1800)℃	U=(0.3～0.7)℃		
110	配热电阻用模拟式温度指示调节仪	温度	1502	JJG951-2000《模拟式温度指示调节仪》	(0～800)℃	U=(0.29～0.60)℃		
111	配热电偶用模拟式温度指示调节仪	温度	1502	JJG951-2000《模拟式温度指示调节仪》	(0～1300)℃	U=(0.8～1.3)℃		
112	恒温恒湿箱(包括恒温恒湿室、养护室等)	温度	1504	JJF1101-2003《环境试验设备温度、湿度》	(-80～+180)℃	U=0.3℃		
		湿度	1517		(0～100)%RH	U=1.5%RH		
113	恒温箱(包括干燥箱、高低温试验箱、烘箱、冷热冲击试验箱等)	温度	1504	JJF1101-2003《环境试验设备温度、湿度》	(-80～0)℃	U=(0.5～0.4)℃		
					(0～300)℃	U=(0.4～1.7)℃		
114	盐雾试验箱	温度	1504	JJF(辽)75-2009《盐雾试验箱校准规范》	（30～75）℃	U=(0.21～0.26)℃		

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114	盐雾试验箱	盐雾沉降率	1504	JJF(辽)75-2009《盐雾试验箱校准规范》	(1～2)ml/(80cm2.h)	U=0.2ml/(80 cm^2·h)		
115	蒸汽老化试验箱	温度	1501	JJF1101-2003《环境试验设备温度、温度》	(0~98)℃	U=(0.3~0.4)℃		
116	UV 老化试验箱（氙灯老化试验箱）	温度	1501	JJF1101-2003《环境试验设备温度、温度》	(20~150)℃	U=0.4℃	不测辐照度	
117	沙尘试验箱	温度	1504	JJF(军工)18-2012 《沙尘试验设备校准规范》	(30~80)℃	U=0.4℃		
		风速	1324		(0~10)m/s	U=0.3m/s		
		沙尘沉降速率	1316		(0～20)g/(m2・d)	U=(0.3～0.6)g/(m^2·d)		
118	水浴锅（含振荡）	温度	1504	Q/CTIC 02033-2013《电热恒温水浴锅(带振动)校准方法》	室温～95℃	U=(0.21～0.25)℃		
		转速	1324		(40～200)r/min	U=(0.17～0.23)r/min		
119	灼热丝试验仪	温度	0431	Q/CTIC111-2013《灼热丝试验仪校准方法》	(550～1100)℃	U=2℃		
		长度			(0～200)mm	U=（0.09~0.35）mm		
		时间			(0～1800)s	U=0.1s		
		质量			(0～2)kg	U=(0.04~0.06)g		

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120	燃烧试验仪（水平垂直、针焰试验机）	长度	1504	Q/CTIC107-2013 燃烧试验仪校准方法	(0~200)mm	U=(0.09~0.35)mm		
		角度			(0~180)°	U=(0.15~0.18)°		
		时间			(0~1800)s	U=0.1s		
121	恒温槽(水槽、油槽、低温槽)	温度	1504	JJF1030-2010《恒温槽技术性能测试规范》	(-80～+300)℃	U=0.015℃		
122	消解装置	温度	1501	JJF1101-2003《环境试验设备温度、湿度》	（-30～+650）℃	U=（0.24～0.28）℃		
123	温度巡回检测仪	温度	1501	JJF1171-2007《温度巡回检测仪》	(-80～0)℃	U=(0.18～0.10)℃		
					(0～300)℃	U=(0.10～0.17)℃		
124	脆化试验机	温度	1502	Q/CTIC 02023-2010《脆化试验机校准方法》	（-70～室温）℃	U=(0.33～0.16)℃		
125	多路温度测试仪（炉温测试仪、无纸记录仪）	温度	1502	JJG（京）36-2004《无纸记录仪检定规程》	(-200～+300)℃	U=0.3℃		
					(300～1300)℃	U=0.4℃		
126	老化试验机(箱)、焗炉	温度	1503	JJF1101-2003《环境试验设备温度、温度》	(-30～+800)℃	U=(0.4～1.7)℃		
127	隧道炉（波峰焊、回流焊）	温度	1502	Q/CTIC02034-2013 《隧道炉（回流焊、波峰焊）校准方法》	(室温～1100)℃	U=(1.6~2.0)℃		
128	箱式电阻炉（马弗炉）	温度	1504	JJF1376-2012《箱式电阻炉校准规范》	(室温～+1100)℃	U=(0.8～1.2)℃		

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129	耐洗色牢度试验机	长度	1700	JJF(纺织)026-2010《耐洗色牢度试验机检定规程》	（0～300）mm	U=(0.13~0.41) mm		
		转速			（0～300）r/min	U=(0.7~3.3) r/min		
		时间			（0～3600）s	U=0.1s		
		温度			（0～95）℃	U=(0.31~0.34)℃		
130	热变形维卡试验机	温度	1700	Q/CTIC 02022-2013《热变形维卡试验机 校准方法》	（0～300）℃	U=(0.33～0.40)℃		
		质量			（50～2000）g	U=(0.18~0.19)g		
		长度			（0.1～20）mm	U=(0.84~0.89)μm		
131	试验用洗衣、干衣机	温度	1700	Q/CTIC 02024-2013《试验用洗衣、干衣机校准方法》	（0～120）℃	U=(0.31～0.39)℃		
		搅拌速度			(0～1000)r/min	U=(1.3~10.1)r/min		
		时间			(0～3600)s	U=(0.09~0.25)s		
		水位			(0~300)mm	U=(0.30~0.46)mm		
		水量			(5~25)gal	U=(0.28~0.42)gal		
132	熨烫、升华色牢度仪	温度	1700	JJF（纺织）029-2006 《熨烫、升华色牢度试验仪》	（0～210）℃	U=1.7℃		

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132	熨烫、升华色牢度仪	时间	1700	JJF（纺织）029-2006 《熨烫、升华色牢度试验仪》	（0～30）min	U=(0.22～0.35)s		
		力值			16N	U=0.42N		
		长度			（1～2）mm	U=0.03mm		
133	熔点仪	温度	0236	JJG701-2008《熔点仪检定规程》	(50～285) ℃	U=0.3℃		
134	加热板	温度	1504	Q/CTIC 02026-2013《加热板校准方法》	(50~100)℃	U=1.6℃		
					(100~350)℃	U=1.7℃		
135	过程仪表校验仪（温度校验仪）	温度	1502	JJF1309-2011《温度校验仪校准规范》	热电偶测量：(-200~+1300)℃	U=(0.15~0.23)℃		
					热电偶输出：(-200~+1300)℃	U=(0.13~0.21)℃		
					热电阻测量：(-200~+800)℃	U=(0.10~0.15)℃		
					热电阻输出：(-200~+800)℃	U=(0.11~0.15)℃		
136	非自行指示秤	质量	1311	JJG14-1997《非自行指示秤》	20g～10kg	U=（1～2）g		
					10kg～100kg	U=（2～20）g		
					100kg～1000kg	U=20g～0.2kg		
137	数字指示秤	质量	1311	JJG539-1997《数字指示秤》	0.02g～3kg	U=3mg～0.15g		

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137	数字指示秤	质量	1311	JJG539-1997《数字指示秤》	3kg～30kg	U=（0.15～3）g		
					30kg～300kg	U=（3～20）g		
					300kg～1500kg	U=20g～0.35kg		
					1500kg～3000kg	U=（0.35～0.80）kg		
138	模拟指示秤	质量	1311	JJG13-1997 《模拟指示秤》	2g～10kg	U=（0.5～10）g		
					10kg～30kg	U=（10～30）g		
					30kg～100kg	U=30g～0.10kg		
139	架盘天平	质量	1311	JJG 156-2004《架盘天平》	≤5 kg	U=0.3d		
140	非自动天平	质量	1311	JJG1036-2008《电子天平》	1mg～500mg	U=（0.06～0.10）mg		
					500mg～1g	U=（0.10～0.12）mg		
					1g～500g	U=（0.12～0.20）mg		
					500g～1kg	U=（0.20～13）mg		
					1kg～30kg	U=13mg～0.2g		
				JJG98-2006《机械天平》	1mg～500mg	U=（0.02～0.08）mg		
					500mg～1g	U=（0.08～0.10）mg		
					1g～500g	U=（0.10～2.5）mg		
					500g～1kg	U=（2.5～5.0）mg		
					1kg～30kg	U=5.0mg～0.3g		
141	砝码	质量	1310	JJG99-2006《砝码》	1mg～500mg	U=（0.02～0.07）mg		

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141	砝码	质量	1310	JJG99-2006《砝码》	500mg～1g	U=（0.07～0.08）mg		
					1g～500g	U=（0.08～2.4）mg		
					500g～1kg	U=（2.4～4.6）mg		
					1kg～25kg	U=4.6mg～0.14g		
142	烘干法水分测定仪	质量	1310	JJG658-2010《烘干法水分测定仪》	1mg～20kg	U=4d		
		含水量			0%～100%	U_{rel}=0.05%		
143	工作测力仪	力值	1323	JJG455-2000《工作测力仪》	≤5000N	U_{rel}=0.3%		
144	摆锤式冲击试验机	力矩	1323	JJG145-2007《摆锤式冲击试验机》	≤500J	U_{rel}=0.15%		
		打击中心至摆锤轴线的距离	1323		≤1m	U_{rel}=0.15%		
145	悬臂梁式冲击试验机	力矩	1323	JJG608-1989《悬臂梁式冲击试验机》	≤100J	U_{rel}=0.15%		
		打击中心至摆锤轴线的距离	1323		≤1m	U_{rel}=0.15%		
146	量仪测力仪	力值	1318	JJF1134-2005《专用工作测力机》	(0.1～20)N	U_{rel}=0.4%		
147	抗折试验机	力值	1326	JJG476-2001《抗折试验机》	≤50kN	U_{rel}=0.3%		
148	拉力压力和万能材料试验机	力值	1326	JJG139-1999《拉力压力和万能材料试验机》	≤0.5N～200kN	U_{rel}=0.3%	不做同轴度	
149	非金属拉力压力和万能试验机	力值	1326	JJG157-2008《非金属拉力压力和万能试验机》	≤0.5N～200kN	U_{rel}=0.3%	不做同轴度	

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149	非金属拉力压力和万能试验机	速度	1326	JJG157-2008《非金属拉力压力和万能试验机》	(0.1～1000)mm/min	U_{rel}=0.06%	不做同轴度	
		位移			(0～1000)mm	U_{rel}=0.10%		
150	电子式万能试验机	力值	1326	JJG475-2008《电子式万能试验机》	≤0.5N～200kN	U_{rel}=0.3%	不做同轴度	
		位移			(0～1000)mm	U_{rel}=0.10%		
		速度			(0.1～1000)mm/min	U_{rel}=0.06%		
151	弹簧拉压试验机	力值	1326	JJF1134-2005《专用工作测力机》	≤200kN	U_{rel}=0.3%		
152	插拔力试验机	质量(力值)	1326	JJF1134-2005《专用工作测力机》	（1～200）kg	U_{rel}=0.3%		
153	压缩强度试验机	力值	0336	JJG(轻工)49-2000《纸板压缩强度试验仪》	（0.5～3000）N	U_{rel}=0.3%		
154	纸箱抗压机	力值	0336	JJG(轻工）115-2000 《纸箱抗压试验机检定规程》	（0～50）KN	U_{rel}=0.4%		
155	维氏硬度计	硬度	1326	JJG151-2006《金属维氏硬度计》	(100～1000)HV	U_{rel}=（1.1～2.0）%		
156	金属韦氏硬度计	硬度	1326	JJG944-2013《金属韦氏硬度计》（试行）	(1-20)HW	U_{rel}=0.4 HW		
157	显微硬度计	硬度	1326	JJG151-2006《金属维氏硬度计》	(100～1000)HV	U_{rel}=（1.4～3.5）%		
158	橡胶测厚装置	长度	1303	JJG(化)104-1991 《橡胶测厚计》	(0～100)mm	U=0.01mm		

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159	邵氏硬度计	硬度	1326	JJG304-2003《A 型邵氏硬度计》	(10～100)HA	U=0.4HA		
		几何尺寸	1314		(0～200)mm	U =0.005mm		
160	橡胶硬度计	硬度	1314	JJG1039-2008《D 型邵氏硬度计》	(0～100)HD	U=0.4 HD		
		几何尺寸			(0～200)mm	U=0.004mm		
161	金属布氏硬度计	硬度	1326	JJG150-2005《金属布氏硬度计》	≤125HBW	U_{rel}=1.3%		
					（125～225）HBW	U_{rel}=1.1%		
					(225～650)HBW	U_{rel}=1.0%		
162	里氏硬度计	硬度	1326	JJG747-1999《里氏硬度计》	(500～800)HLD(G)	(500～570)HLD: U=3.3 HLD (590～670)HLD: U=3.7 HLD (750～800)HLD: U=4.5 HLD		
163	洛氏硬度计	硬度	1326	JJG112-2013《金属洛氏硬度计》	(75~88)HRA	U=0.6HRA		
					(80~100)HRB	U=0.8HRB		
					(20~30)HRC	U=0.6HRC		
					(30~50)HRC	U=0.6HRC		
					(50~70)HRC	U=0.5HRC		

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164	金属表面洛氏硬度计	硬度	301	JJG112-2013《金属洛氏硬度计》	（89～91）HR15N	U=0.6 HRN		
					（42～80）HR30N	U=0.6HRN		
					（62～70）HR45N	U=0.7HRN		
					（87～93）HR15T	U=0.8HRT		
					（70～82）HR30T	U=0.7HRT		
					（45～72）HR45T	U=0.6HRT		
165	转速表	转速	1324	JJG105-2000《转速表》	接触式：（20～30000）r/min	U=(0.06～15)r/min		
					非接触式：（20～30000）r/min	U_{rel}=0.1%		
166	离心式恒加速度试验机	转速	0335	JJG972-2002《离心式恒加速度试验机》	(1~99999) r/min	U_{rel}=0.7%		
		恒加速度	1324		(1～99999) m/s2	U_{rel}=2.7%		
167	弹簧管式一般压力表	压力	1320	JJG52-2013《弹簧管式一般压力表、压力真空表和真空表》	(-0.1～+60) Mpa	U_{rel}=0.5%		
168	弹簧管式精密压力表及真空表	压力	1320	JJG49-2013《弹簧管式精密压力表及真空表》	(-0.1～+60)Mpa	U_{rel}=0.1%		
169	差压表	压力	0337	JJG573-2003《膜盒压力表》	(-1500～1500)Pa	U_{rel}=1.0%		
170	膜盒压力表	压力	0337	JJG573-2003《膜盒压力表》	（-50～40）kPa	U_{rel}=1.0%		

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171	数字压力计	压力	1320	JJG875-2005《数字压力计》	(-0.1～+60) Mpa	U_{rel}= 0.1%		
172	压力控制器	压力	1320	JJG 544-2011《压力控制器》	(-0.1～+60) MPa	U_{rel}=0.2%		
173	压力变送器	压力	1320	JJG882-2004《压力变送器》	(-0.1～+60) MPa	U_{rel}=0.1%		
174	扭矩扳子检定仪	扭矩	1325	JJG797-2013《扭矩扳子检定仪》	(0.04～100)N.m	U_{rel}=0.4%		
175	扭矩扳子	扭矩	1325	JJG707-2003《扭矩扳子》	(0.001～1000)N.m	U_{rel}=(1.2～1.6)%		
176	测功机	扭矩	1325	JJG653-2003《测功机》	（0.01～500）Nm	U_{rel}=0.5%		
		转速	0335		（100～20000）r/min	U_{rel}=0.2%		
177	染色摩擦色牢度仪	转速	0312	JJF(纺织)027-2010《染色摩擦色牢度仪校准规范》	（0～3000）r/min	U=1.2r/min		
		直径			（0～200） mm	U=0.06mm		
		力值			（0～250）N	U_{rel}=1.0%		
		行程			（0～200）mm	U=0.34mm		
178	汗渍色牢度仪	长度	0312	JJF(纺织)028-2010《汗渍色牢度仪校准规范》	（0～200）mm	U=(0.05～0.10)mm		
		力值			(0～300)N	U_{rel}=0.2%		
179	织物起毛起球仪	长度	0312	JJG(纺织)040-1990《织物起毛起球仪》	Φ(0～200)mm	U=(0.05～0.2)mm		
		转速			(0～3000)r/min	U_{rel}=1.0%		

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179	织物起毛起球仪	力值	0312	JJG(纺织)040-1990《织物起毛起球仪》	(100～500)cN	U_{rel}=0.1%		
180	织物平磨仪	转速	0312	JJG(纺织)046-1991《织物平磨仪》	(0～1000)r/min	U_{rel}=1.0%		
		质量			（0.5～6200）g	U＝0.4g		
181	插头线静态拉力试验机	速度	1326	Q/CTIC104-2008《插头类专用仪器校准方法》	(0～300) mm/min	U_{rel}=0.2%		
		力值			(0.4～9.072) kg	U=(0.8～1.3)g		
182	插头滚筒试验机	转速	1326	Q/CTIC104-2008《插头类专用仪器校准方法》	(0～5)r/min	U=0.4r/min		
183	插头引线弯折试验机	质量	1326	Q/CTIC104-2008《插头累专用仪器校准方法》	（10~500）g	U=(0.13～0.31)g		
		角度	336		（0~90）°	U=0.3°		
		转速			(20～1000)r/min	U=（0.6～2）r/min		
184	MIT 式耐折度仪	弹簧 张力	1326	JJG(轻工)59-2000《MIT 式耐折度仪》	（0～980）N	U=0.16N		
		角度			(0～180)°	U=11′		
		转速	1326		（0～3000）r/min	U=3.4 r/min		
184	初粘性测试仪	角度	0336	Q/CTIC109-2008《初粘性测试仪校准方法》	(0～90)°	U=0.4°～1.0°		
		直径			(0～200)mm	U=0.006mm		

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186	筛网张力计	力值/位移	1323	Q/CTIC112-2008《筛网张力计校准方法》	(7～60)N/cm	U_{rel}=1.0%		
187	橡胶磨耗试验机	质量	0336	Q/CTIC 02015-2010《橡胶磨耗试验机校准方法》	（0.5～6200）g	U=(1.2～0.35)g		
		转速			(20～1000)r/min	U_{rel}=1.0%		
		尺寸			（0~200）mm	U=(0.02～0.10)mm		
188	皮革动态防水试验机	转速	0336	Q/CTIC105-2008《皮革动态防水试验机校准方法》	50 r/min	U=0.6 r/min		
189	纸带摩擦试验机	荷重	0336	Q/CTIC 02012-2010《纸带摩擦试验机校准方法》	(0～500)g	U=(1.1～2.4)g		
		转速			（0~1000）r/min	U=0.8rpm		
190	锐利边缘测试仪	质量	1323	Q/CTIC102-2008《锐利边缘测试仪校准方法》	(453.6～907.2)g	U=(7～22)g		
		长度			（1.0～25）mm	U=0.011mm		
		速度			（23±4）mm/s	U=0.9mm/s		
191	涂膜铅笔划痕硬度仪	荷重	0301	Q/CTIC 02010-2010《涂膜铅笔划痕硬度仪校准方法》	（0～6200）g	U=(2.2～4.0)g		
		角度			（0～90）°	U=0.35°		
192	水泥胶砂搅拌机	转速	1002	JJG（建材）102-1999 《水泥胶砂搅拌机》	(57～295)r/min	U=0.8r/min		

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193	水泥净浆搅拌机	转速	1002	JJG(建材) 104-1994《水泥净浆搅拌机》	（10~999）r/min	U=1.0r/min		
		长度			(10～285)mm	U=(0.02～0.06)mm		
194	水泥胶砂流动度测定仪	长度	1002	JJG(建材) 126-1999 《水泥胶砂流动度测定仪》	（18~285）mm	U=(0.02～0.04)mm		
		质量	1002		(3440~3460)g	U=0.3 g		
195	破裂强度试验机	压力	336	JJG(轻工)61-2000《纸与纸板耐破度仪》	（0~10）MPa	U_{rel}=0.13%		
196	AKRON 磨耗试验机	力值	0336	《橡胶阿克隆磨耗试验机》 JJG(化) 103-1991	（0.5～200）N	U＝0.10N		
		转速			（0～1000）r/min	U＝0.6r/min		
		硬度			(0～100)HA	U＝1.2HA		
		尺寸			(0～200)mm	U＝0.06mm		
197	漆膜摆式硬度计	质量	1002	Q/CTIC100-2008《漆膜摆式硬度计校准方法》	(120～500）g	U=0.07g		
		时间			（250～440）s	U=1.5s		
198	落锤式织物撕裂仪	力值	0312	JJG(纺织)060-1995《落锤式织物撕裂仪》	（0.5～64）N	U=0.4d		
199	纸张平滑度仪	真空	0336	JJG(轻工)62-2000《纸与纸板平滑度仪》	（-0.1～0）Mpa	U_{rel}=0.15%		

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200	胶带保持力试验仪	质量	1310	JJG99-2006《砝码》	≤1000g	U=0.6g		
201	流量显示仪	流量	1316	JJG1003-2005《流量积算仪》	DC（0～5）V，（1～5）V，（0～10）mA，（4～20）mA	$Urel$=0.2%		
202	数字式电动振动试验系统	加速度	1407	JJG948-1999《数字式电动振动试验系统》	(0.1-103)m/s^2	U_{rel}=(2.4～3.0)%		
		频率			(1～5000)Hz	U_{rel}=(0.12～0.14)%		
203	电动式振动试验台	加速度	1409	JJG190-1997《电动式振动试验台》	(0~1000)m/s^2	U_{rel}=(2.4～3.0)%		
		频率			(1～5000)Hz	U_{rel}=(0.12～0.14)%		
204	机械式振动试验台	位移	1409	JJG189-1997《机械式振动试验台》	5μm ～100mm	U_{rel}=4.0%		
		加速度			(0~1000)m/s^2	U_{rel}=(2.4～3.0)%		
		频率			(1～2000)Hz	U_{rel}=(0.12～0.14)%		
205	公路运输模拟试验台	位移	1409	JJF1271-2010《公路运输模拟试验台校准规范》	5μm ～100mm	U_{rel}=4.2%		
		加速度			(0~1000)m/s^2	U_{rel}=4.5%		
		频率			(0.5～400)Hz	U_{rel}=(0.2～0.3)%		
206	冲击试验台	加速度	1407	JJG541-2005《落体式冲击试验台》	(0～25000)m/s^2	U_{rel}=4.5%		
		脉宽			(0.5～30)ms	U_{rel}=3.5%		

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207	弹簧冲击器	能量	306	Q/CTIC 02025-2013《弹簧冲击器校准方法 》	(0～2) J	U_{rel}=3.6%		
208	温度.湿度.振动综合环境试验系统	温度	1504	JJF1270-2010《温度.湿度.振动综合环境试验系统校准规范 》	(-80～+180)℃	U=0.3℃		
		湿度			(0～100)%RH	U=1.5%RH		
		加速度	1407		(0~1000)m/s^2	U_{rel}=(2.4～3.0)%		
209	pH(酸度)计	酸度	0243	JJG119-2005《实验室 pH（酸度)计》	(0~14) pH	电计：U=0.001pH		
						仪器：U=0.006pH		
		电压			(-2000~2000)mV	U=0.2mV		
210	电导率仪	电导率	0401	JJG376-2007《电导率仪》	电计 ：(0.05~105) μS	U_{rel}=0.3 %		
					仪器：(0~105) μS/cm	U_{rel}=0.4%		
211	木材含水率测量仪	含水率	0308	JJG986-2004《木材含水率测量仪》	(4~36)%	U=0.4%		
212	熔体流动速率仪	负荷	1700	JJG878-1994《熔体流动速率仪》	负荷：(0~200)g	U=0.1g		
					负荷：(200~1000)g	U=0.5g		
					负荷：(1~30)kg	U=1g		

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212	熔体流动速率仪	准确度	1700	JJG878-1994《熔体流动速率仪》	熔体流动速率:(0~25) g/10min	U_{rel}=4 %~7%		
213	玻璃量器	容量	1312	JJG196-2006《常用玻璃量器》	（0.1~10）mL	U=0.003mL		
					（10~100）mL	U=0.01mL		
					（100~500）mL	U=0.05mL		
					（500~2000）mL	U=0.12mL		
214	移液器	容量	1312	JJG646-2006《移液器》	(10~100)μL	U=0.4μL		
					(100~1000)μL	U=1μL		
					(1000~10000)μL	U=5μL		
					(10~50)mL	U=25μL		
215	密度计	密度	1315	JJG42-2011 《工作玻璃浮计》	(0.650~1.400)g/cm^3	U=0.0005 g/cm^3		
216	波美计	波美度	1315	JJG42-2011《工作玻璃浮计》	(0~40) Bh	U=0.04Bh		
217	旋转粘度计	动力粘度	1700	JJG1002-2005《旋转粘度计》	(1~10) mPa·s	U_{rel}=3%		
					(20~100) mPa·s	U_{rel}=2%		
					(200~1.5×106) mPa·s	U_{rel}=1%		
218	流出杯式粘度计	运动粘度	1700	JJG743-1991《流出杯式粘度计》	(2~700) mm^2/s	U_{rel}=2%		
219	恩氏粘度计	时间	1700	JJG742-1991《恩氏粘度计》	(51±1)s	U=0.2s		

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220	涂料粘度计	粘度	1700	Q/CTIC 007-2008《涂料粘度计校准方法》	(2~600) mm^2/s	U_{rel}=2%		
221	涂料比重杯	容量	0236	Q/CTIC 008-2008《涂料比重杯校准方法》	(10~100)mL	U=0.02mL		
					(100~1000)mL	U=0.08mL		
222	大气采样器	流量	0236	JJG956-2013《大气采样器》	(0.02~6.0)L/min	U_{rel}=2%		
223	粉尘采样器	流量	0238	JJG520-2005《粉尘采样器》	(0.2~150)L/min	U_{rel}=2%		
224	尘埃粒子计数器	尘埃粒子数	0238	JJF1190-2008《尘埃粒子计数器》	(0.3~0.5)μm	U_{rel}=15%		
225	洁净工作台	洁净度	1404	Q/CTIC 006-2007《洁净工作台校准方法》	(100~10000)级	U_{rel} =15%		
226	可见分光光度计	波长	1618	JJG178-2007《紫外、可见、近红外分光光度计》	(360~810)nm	U=0.3nm		
		透射比			(0~100)%	U_{rel} =0.6%		
227	单光束紫外可见分光光度计	波长	1618	JJG178-2007《紫外、可见、近红外分光光度计》	(195~810)nm	U=0.3nm		
		透射比			(0~100)%	U_{rel} =0.6%		
228	双光束紫外可见分光光度计	波长	1618	JJG178-2007《紫外、可见、近红外分光光度计》	(195~810)nm	U=0.3nm		
		透射比			(0~100)%	U_{rel} =0.6%		
229	荧光分光光度计	检出限	1618	JJG537-2006《荧光分光光度计》	≤1×10-8 g/mL	U=0.003μg/mL		
230	原子荧光光度计	检出限	1618	JJG939-2009《非色散原子荧光光度计》	As,Sb,Hg≤0.4ng	U=0.1ng		

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231	原子吸收分光光度计	检出限	1618	JJG694-2009《原子吸收分光光度计》	火焰法测铜：≤0.02μg/ml		U=0.005μg/ml		
					石墨炉法测镉：≤4 pg		U=0.5pg		
232	冷原子吸收测汞仪	检测限	0240	JJG548-2004《测汞仪》	Hg ≤1.0ng/mL		U=0.2ng/mL		
233	冷原子荧光测汞仪	检测限	0240	JJG548-2004《测汞仪》	Hg≤0.1 ng/mL		U=0.03ng/mL		
234	定碳定硫分析仪	浓度	1700	JJG395-1997《定碳定硫分析仪》	C:(0.001~0.010)%		U=0.0004%		
					C:(0.01~0.10)%	C:(0.010~0.0100)%	U=0.003%		
					C:(0.1~1.0)%	C:(0.100~1.000)%	U=0.005%		
					C:(1~3)%	C:(1.00~3.00)%	U=0.02%		
					S:(0.001~0.010)%	S:(0.001~0.010)%	U=0.0005%		
					S:(0.01~0.010)%	S:(0.01~0.010)%	U=0.002%		
					S:(0.1~0.3)%	S:(0.1~0.3)%	U=0.004%		
235	化学需氧量(COD)测定仪	浓度	0236	JJG975-2002《化学需氧量(COD)测定仪》	(0~5000)mg/L		U_{rel}=3%		
236	气相色谱仪	灵敏度	1700	JJG700-1999《气相色谱仪》	热导检测器(TCD)		U_{rel}=6%		
		检测限			火焰离子化检测器（FID）		U_{rel}=5%		
					火焰光度检测器（FPD）				

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236	气相色谱仪	检测限	1700	JJG700-1999《气相色谱仪》	氮磷检测器（NPD）			
					电子俘获检测器（ECD）			
237	液相色谱仪	最小检测浓度	1617	JJG705-2002《液相色谱仪》	紫外-可见检测器、二极管阵列检测器， 荧光检测器，示差折光率检测器	U_{rel}=9%		
238	液相色谱质谱联用仪	信噪比	1512	JJF1317-2011《液相色谱-质谱联用仪校准规范》	≥10：1	U_{rel}=11%		
239	气相色谱-质谱联用仪	信噪比	1511	JJF1164-2006《台式气相色谱-质谱联用仪》	≥10：1	U_{rel}=5%		
240	离子色谱仪	最小检出浓度	1617	JJG823-1993《离子色谱仪》	Cl－ (0~50) μg/g	U_{rel}=6%		
					NO3- (0~50) μg/g			
					Na+ (0~50) μg/g			
					Ca2+ (0~50) μg/g			
241	发射光谱仪	检出限	1617	JJG768-2005《发射光谱仪》	ICP：Zn ≤0.01 mg/L	U_{rel}=6%		
					Ni ≤0.03 mg/L			

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241	发射光谱仪	检出限	1617	JJG768-2005《发射光谱仪》	Mn ≤0.005 mg/L			
					Cr ≤0.02 mg/L			
					Cu ≤0.02 mg/L			
					Ba ≤0.005 mg/L			
					直读光谱仪：C≤0.02mg/L			
					Si≤0.02mg/L			
					Mn≤0.02mg/L	U_{rel}=8%		
					Cr≤0.01mg/L			
					Ni≤0.02mg/L			
					V≤0.01mg/L			
242	X-荧光光谱仪	检出限	1618	Q/CTIC003-2007《X-荧光光谱仪》	(0~1000)mg/kg	U_{rel}=7%		
243	测色色差计	色度	1613	JJG595-2002《测色色差计》	Y：（10~96） x，y：（0.1~0.9）	U(Y)=1.7, U(x),U(y)=0.006		
244	白度计	白度	1613	JJG512-2002《白度计》	65~90	U=1.7		
245	手持糖量（含量）计及手持折射仪	浓度	1603	JJG820-1993《手持糖量(含量)计及手持折射仪》	(0~80)%	U=0.6d,(d 为分度值)		

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245	手持糖量（含量）计及手持折射仪	折射率	1603	JJG820-1993《手持糖量(含量)计及手持折射仪》	1.3330~1.5200	U=0.0003		
246	阿贝折射仪	折射率	1604	JJG625-2001《阿贝折射仪》	1.33~1.68	$U=8\times10^{-5}$		
247	光泽度计	光泽度	1613	JJG696-2002《镜向光泽度计、光泽度板》	(0~100)光泽单位	U=1.4 光泽单位		
248	浊度计	浊度	1700	JJG880-2006《浊度计》	(0~400) NTU	U_{rel}=4%		
249	旋光仪及旋光糖量计	旋光度	1603	JJG536-1998《旋光仪及旋光糖量计》	-45° ~+45°	U=0.003°		
		糖度			(-20~+105）° Z	U=0.01°Z		
250	光密度计	光密度	1613	JJG920-1996《漫透射视觉密度计》	0~4	U=0.02		
251	雾度计	雾度	0237	JJF1303-2011《雾度计校准规范》	0~35	U=0.3		
		透射比			(70~90)%	U=0.8%		
252	澄明度检测仪	光照度	1612	JJF1287-2011《澄明度检测仪校准规范》	(0~4000) lx	U_{rel}=9%		
253	标准光源对色灯箱	色温	1617	JJG(纺织)055-2012《标准光源箱》	(2000~9500)K	U_{rel}=1.4%		
		光照度			(0~9000)Lx	U_{rel}=8%		
254	傅立叶变换红外光谱仪	波数	1601	JJF1319-2011《傅立叶红外光谱仪校准规范》	(800~3100)cm-1	U=0.3 cm^{-1}		
255	酶标仪	波长	0711	JJG861-2007《酶标分析仪》	(360~700)nm	U=1.2nm		
		吸光度			(0.000~4.000)	U=0.006 吸光度		

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256	火焰光度计	检出限	1618	JJG630-2007《火焰光度计》	Na: (0~1)mmol/L	U=0.001mmol/L		
					K: (0~0.200)mmol/L	U=0.0005mmol/L		
257	水中油份浓度分析仪	浓度	0233	JJG950-2012《水中油份浓度分析仪》	(0~1000)mg/L	U_{rel} =4%		
258	四极杆电感耦合等离子体质谱仪 ICP-MS	检出限	1511	JJF1159-2006《四极杆电感耦合等离子体质谱仪校准规范》	Be≤30 ng/L，In≤10 ng/L，Bi≤10 ng/L	U_{rel} =3%		
259	卡氏、库仑水份测定仪	浓度	1700	JJG1044-2008《卡尔·费休库仑法微量水分测定仪》	(0~100)%	U_{rel}=3%		
260	自动电位滴定仪	电位	1700	JJG814-1993《自动电位滴定仪》	(-2000~2000)mV	U=0.2mV		
261	水质综合分析仪	酸度	1700	JJG715-1991《水质综合分析仪》	(0~14)pH	U=0.01 pH		
		溶解氧			(0~15)mg/L	U=0.2mg/L		
		电导率			(0.0~1999)μS	U_{rel} =0.4%		
		浊度			(0~400)NTU	U_{rel} =4%		
		电位			(-2000~2000)mV	U=0.2mV		
262	激光粒度分析仪	粒径	131101	JJF1211-2008《激光粒度分析仪校准规范》	(2~5)μm	U_{rel}=5%		
					(5~20)μm	U_{rel}=4%		

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262	激光粒度分析仪	粒径	131101	JJF1211-2008《激光粒度分析仪校准规范》	(20~125) μm	U_{rel}=3%		
263	差示扫描量热仪	温度	0203	JJG936-2012《示差扫描热量计》	(120~450)℃	In：U=0.4℃ Sn：U=0.3℃ Pb：U=0.6℃ Zn：U=0.7℃		
		热量			(23~108)J/g	In：U=0.5J/g Sn：U=0.4J/g Pb：U=0.5J/g Zn：U=1.4J/g		
264	总有机碳分析仪	示值误差	0236	JJG821-2005《总有机碳分析仪》	（0~1000）mg/L	U_{rel}=3%		
265	CO、CO_2红外线气体分析仪	浓度	0236	JJG635-2011《CO、CO_2红外线气体分析器》	CO:(0~500)μmol/mol CO_2:(0~5000)μmol/mol	U_{rel} =3%		
266	可燃气体检测报警器	示值误差	0236	JJG693-2011《可燃气体检测报警器》	(0~100)%LEL	U_{rel}=3%		
267	CO 检测报警器	测量误差	0236	JJG915-2008《一氧化碳检测报警器》	(0~1000) μmol/mol	U_{rel}=3%		
268	SO2 气体检测仪	示值误差	0236	JJG551-2003《二氧化硫气体检测仪》	(0~100) μmol/mol	U_{rel}=3%		
269	H2S 气体检测仪	示值误差	0236	JJG695-2003《硫化氢气体检测仪》	(0~100) μmol/mol	U_{rel}=3%		
270	亮度计	亮度	1611	JJG211-2005《亮度计检定规程》	(0.06～1500)cd/m^2	U_{rel}=3%		
271	彩色亮度计	光亮度	1611	JJG211-2005《亮度计检定规程》	(10～2000)cd/m^2	U_{rel}=3%		

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271	彩色亮度计	色度	1611	JJG211-2005《亮度计检定规程》	x(0.1586～0.7310) y(0.0199～0.4688)	U_x=0.009, U_y=0.008		
272	光照度计	光照度	1612	JJG245-2005《光照度计检定规程》	(1～5)lx	U_{rel}=1.4%		
					(5～50)lx	U_{rel}=1.2%		
					(50～100)lx	U_{rel}=1.1%		
					(100～500)lx	U_{rel}=1%		
					(500～3000)lx	U_{rel}=0.9%		
273	光纤光功率计	功率	1622	JJG965-2001《通信用光功率计》 JJG813-1993《光纤光功率计》	(27～10)dBm	U=0.2dB		
					(10～0)dBm	U=0.06dB		
					(0～-20)dBm	U=0.08dB		
					(-20～-40)dBm	U=0.13dB		
					(-40～-60)dBm	U=0.3dB		
					(-60～-80)dBm	U=0.5dB		
274	UV 能量计	能量	1606	JJG879-2002《紫外辐射照度计》	(0.1～2000)mJ/cm^2	U_{rel}=16%		
275	紫外辐射照度计	辐照度	1606	JJG879-2002《紫外辐射照度计》	(0.001～1.2)mW/cm^2	U_{rel}=14%		

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276	偏置电流源	直流电流	0406	JJG(航天)38-1987《直流标准电流源》	±(1mA～20A)		U_{rel}=0.2%		
277	直流稳压电源	直流电压	0409	JJG(航天)6-1999《直流稳压电源》 JJG(航天)38-1987《直流标准电流源》	0.01V～0.1V		U_{rel}=0.01%		
					0.1V～1V		U_{rel}=0.018%		
					1V～10V		U_{rel}=0.15%		
					10V～100V		U_{rel}=0.18%		
					100V～1000V		U_{rel}=0.019%		
		直流电流			0.001A～0.01A		U_{rel}=0.36%		
					0.01A～0.1A		U_{rel}=0.16%		
					0.1A～1A		U_{rel}=0.26%		
					1A～3A		U_{rel}=0.26%		
					3A～10A		U_{rel}=0.40%		
					10A～30A		U_{rel}=0.14%		
					30A～300A		U_{rel}=0.58%		
		纹波电压			(0～100)mV	20Hz～2MHz	U=0.20%+0.004mV		
278	交流稳压电源(变频电源)	交流电压	0409	JJG410-1994《精密交流电压校准源》 JJG(航天)51-1999《交流标准电流源检定规程》	10mV～10V	40Hz～1kHz	U_{rel}=0.2%		

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278	交流稳压电源(变频电源)	交流电压	0409	JJG410-1994《精密交流电压校准源》 JJG(航天)51-1999《交流标准电流源检定规程》	10V～100V	40Hz～1kHz	U_{rel}=0.3%		
					100V～1000V		U_{rel}=0.2%		
		交流电流			1mA～0.1A		U_{rel}=0.2%		
					0.1A～10A		U_{rel}=0.3%		
		交流功率			0.1W～10W		U_{rel}=0.3%		
					10W～10kW		U_{rel}=0.4%		
		频率			40Hz～1kHz		U_{rel}=0.11%		
279	数字式三用表校验仪	直流电压	0409	JJG(电子)02003-1988《数字式三用表校验仪》	10mV～100mV		U_{rel}=0.06%		
					100mV～1V		U_{rel}= 0.012%		
					1V～10V		U_{rel}= 0.014%		
					10V～100V		U_{rel}= 0.016%		
					100V～1000V		U_{rel}= 0.018%		
		交流电压			1mV～100mV	40Hz～1kHz	U_{rel}=0.072%		
					100mV～1V		U_{rel}=0.074%		
					1V～10V		U_{rel}=0.080%		
					10V～100V		U_{rel}= 0.091%		

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279	数字式三用表校验仪	交流电压	0409	JJG(电子)02003-1988《数字式三用表校验仪》	100V～1000V		U_{rel}=0.085%		
		直流电流	0409		0.1μA～10μA		U_{rel}=0.12%		
					10μA～100μA		U_{rel}= 0.013%		
					100μA～1000μA		U_{rel}=0.015%		
					1mA～10mA		U_{rel}=0.015%		
					10mA～100mA		U_{rel}=0.016%		
					100mA～1000mA		U_{rel}=0.021%		
					1A～10A		U_{rel}=0.053%		
		交流电流	0409		10μA～100μA	45Hz～100Hz	U_{rel}=0.11%		
					100μA～1000μA		U_{rel}=0.10%		
					1mA～10mA		U_{rel}=0.10%		
					10mA～100mA		U_{rel}=0.10%		
					100mA～1000mA		U_{rel}=0.10%		
					1A～10A		U_{rel}=0.15%		
		电阻			0Ω～10Ω		U_{rel}= 0.003%		
					10Ω～100Ω		U_{rel}= 0.0020%		
					100Ω～1000Ω		U_{rel}= 0.0013%		
					1kΩ～10kΩ		U_{rel}=0.0013%		
					10kΩ～100kΩ		U_{rel}= 0.0013%		

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279	数字式三用表校验仪	电阻	0409	JJG(电子)02003-1988《数字式三用表校验仪》	100kΩ～1000kΩ		U_{rel}= 0.0020%		
					1MΩ～10MΩ		U_{rel}=0.007%		
					10MΩ～100MΩ		U_{rel}=0.06%		
280	多功能校准源	直流电压	0409	JJG445-1986《直流标准电压源》	1mV～10mV		U_{rel}=0.0048%		
					10mV～100mV		U_{rel}=0.0046%		
					100mV～1V		U_{rel}=0.0015%		
					1V～10V		U_{rel}=0.0012%		
					10V～100V		U_{rel}=0.0016%		
					100V～1000V		U_{rel}=0.0020%		
		交流电压		JJG410-1994《精密交流电压校准源》	1mV～10mV	40Hz～1kHz	U_{rel}=0.17%～0.06%		
						1kHz～20kHz	U_{rel}=0.18%～0.06%		
					10mV～100mV	40Hz～1kHz	U_{rel}=0.036%～0.018%		
						1kHz～20kHz	U_{rel}=0.042%～0.022%		
					100mV～1V	40Hz～1kHz	U_{rel}=0.034%～0.012%		
						1kHz～20kHz	U_{rel}=0.042%～0.022%		
					1V～10V	40Hz～1kHz	U_{rel}=0.034%～0.016%		
						1kHz～20kHz	U_{rel}=0.044%～0.026%		

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280	多功能校准源	交流电压	0409	JJG410-1994《精密交流电压校准源》	10V～100V	40Hz～1kHz	U_{rel}=0.029%～0.027%		
						1kHz～20kHz	U_{rel}=0.08%～0.06%		
					100V～1000V	40Hz～1kHz	U_{rel}=0.09%～0.08%		
						1kHz～20kHz	U_{rel}=0.098%～0.078%		
		直流电流	0409	JJG(航天)38-1987《直流标准电流源》	0.1μA～10μA		U_{rel}=0.031%～0.012%		
					10μA～100μA		U_{rel}=0.016%～0.009%		
					100μA～1000μA		U_{rel}=0.0092%～0.0044%		
					1mA～10mA		U_{rel}=0.0096%～0.0045%		
					10mA～100mA		U_{rel}=0.015%～0.006%		
					100mA～1000mA		U_{rel}=0.031%～0.007%		
					1A～10A		U_{rel}=0.068%～0.022%		
280	多功能校准源	交流电流	0409	JJG(航天)51-1999《交流数字电流源》	10μA～100μA	45Hz～100Hz	U_{rel}=0.068%～0.023%		
						100Hz～5kHz	U_{rel}=0.068%～0.024%		
					100μA～1mA	45Hz～100Hz	U_{rel}=0.45%～0.25%		
						100Hz～5kHz	U_{rel}=0.35%～0.13%		
					1mA～10mA	45Hz～100Hz	U_{rel}=0.30%～0.08%		
						100Hz～5kHz	U_{rel}=0.31%～0.11%		

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280	多功能校准源	交流电流	0409	JJG(航天)51-1999《交流数字电流源》	10mA～100mA	45Hz～100Hz	U_{rel}=0.33%～0.13%		
						100Hz～5kHz	U_{rel}=0.30%～0.08%		
					100mA～1A	45Hz～100Hz	U_{rel}=0.35%～0.16%		
						100Hz～5kHz	U_{rel}=0.068%～0.032%		
					1A～10A	45Hz～100Hz	U_{rel}=0.068%～0.033%		
						100Hz～5kHz	U_{rel}=0.38%～0.17%		
		电阻	0409	JJG166-1993《直流电阻器》	0Ω～10Ω		U_{rel}=0.012%～0.005%		
					10Ω～100Ω		U_{rel}=0.015%～0.005%		
					100Ω～1kΩ		U_{rel}=0.0028%～0.0022%		
					1kΩ～10kΩ		U_{rel}=0.0028%～0.0022%		
					10kΩ～100kΩ		U_{rel}=0.0028%～0.0022%		
					100kΩ～1MΩ		U_{rel}=0.0050%～0.0028%		
					1MΩ～10MΩ		U_{rel}=0.022%～0.009%		
					10MΩ～100MΩ		U_{rel}=0.10%～0.08%		
					100MΩ～1000MΩ		U_{rel}=0.015%～0.004%		
281	数字万用表	直流 电压	0410	JJG315-1983《直流数字电压表》	(1～330)mV		U=0.0020%+1μV		
					0.33V～3.29999V		U=0.0011%+2μV		

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281	数字万用表	直流 电压	0410	JJG315-1983《直流数字电压表》	3.3V～32.9999V		U=0.0012%+15μV		
					33V～332.9999V		U=0.0019%+1.5mV		
					330V～1020V		U=0.0018%+1.5mV		
		交流 电压	0410	JJG34(航天)-1999《交流数字电压表》	1mV～32.9993mV	(10～45)Hz	U=0.08%+6uV		
						45Hz～10kHz	U=0.15%+6uV		
						(10～20)kHz	U=0.2%+6uV		
						(20～50)kHz	U=0.1%+6uV		
						(50～100)kHz	U=0.35%+12uV		
						(100～500)kHz	U=0.8%+50uV		
					33mV～329.999mV	(10～45)Hz	U=0.03%+8uV		
						45Hz～10kHz	U=0.013%+8uV		
						(10～20)kHz	U=0.015%+8uV		
						(20～50)kHz	U=0.035%+8uV		
						(50～100)kHz	U=0.08%+32uV		
						(100～500)kHz	U=0.2%+70uV		
					330mV～3.29999V	(10～45)Hz	U=0.03%+50uV		

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281	数字万用表	交流 电压	0410	JJG34(航天)-1999《交流数字电压表》	330mV～3.29999V	45Hz～10kHz	U=0.012%+25uV		
						(10～20)kHz	U=0.019%+50uV		
						(20～50)kHz	U=0.03%+50uV		
						(50～100)kHz	U=0.07%+13mV		
					330mV～3.29999V	(100～500)kHz	U=0.24%+0.60mV		
		交流 电压	0410		3.3V～32.9999V	(10～45)Hz	U=0.03%+0.65mV		
						45Hz～10kHz	U=0.012%+25uV		
						(10～20)kHz	U=0.024%+0.60mV		
						(20～50)kHz	U=0.035%+0.60mV		
						(50～100)kHz	U=0.09%+1.6mV		
					33V～329.999V	45Hz～1kHz	U=0.019%+2mV		
						(1～10)kHz	U=0.02%+6mV		
						(10～20)kHz	U=0.025%+6mV		
						(20～50)kHz	U=0.03%+6mV		
						(50～100)kHz	U=0.2%+50mV		
					330V～1020V	45Hz～1kHz	U=0.03%+0.65mV		
						(1～5)kHz	U=0.025%+10mV		
						(5～10)kHz	U=0.03%+10mV		

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281	数字万用表	直流电流	0410	JJG598-1989《直流数字电流表》	(1～329.999)μA		U=0.015%+0.02uA		
					330μA～3.29999mA		U=0.01%+0.03uA		
					3.3mA～32.9999mA		U=0.01%+0.2uA		
					33mA～329.999mA		U=0.01%+2uA		
					330mA～1.09999A		U=0.02%+40uA		
					1.1A～2.99999A		U=0.038%+40uA		
					3A～10.99999A		U=0.05%+0.33mA		
					11A～20.5A		U=0.1%+0.75mA		
281	数字万用表	交流电流	0410	JJG35(航天)1999《交流数字电流表》	(29～329.99)μA	(10～20)Hz	U=0.2%+1uA		
						(20～45)Hz	U=0.15%+0.1uA		
						45Hz～1kHz	U=0.13%+0.1uA		
						(1～5)kHz	U=0.3%+0.15uA		
						(5～10)kHz	U=0.8%+0.2uA		
						(10～30)kHz	U=0.8%+0.2uA		
					0.33mA～3.2999mA	(10～20)Hz	U=0.2%+15uA		
						(20～45)Hz	U=0.13%+0.1uA		

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序号	测量仪器名称	校准参量	领域代码	规范代号（含年号）名称	测量范围		扩展不确定度（校准和测量能力，k=2）	限制说明	备注
281	数字万用表	交流电流	0410	JJG35(航天)1999《交流数字电流表》	0.33mA～3.2999mA	45Hz～1kHz	U=0.13%+0.1uA		
						(1～5)kHz	U=0.2%+0.2uA		
						(5～10)kHz	U=0.5%+0.3uA		
						(10～30)kHz	U=1.0%+0.6uA		
					3.3mA～32.999mA	(10～20)Hz	U=0.18%+2uA		
					3.3mA～32.999mA	(20～45)Hz	U=0.09%+2uA		
						45Hz～1kHz	U=0.4%+2uA		
						(1～5)kHz	U=0.08%+2uA		
						(5～10)kHz	U=0.2%+3uA		
						(10～30)kHz	U=0.4%+4uA		
					33mA～329.99mA	(10～20)Hz	U=0.18%+20uA		
						(20～45)Hz	U=0.09%+20uA		
						45Hz～1kHz	U=0.4%+20uA		
						(1～5)kHz	U=0.10%+50uA		
						(5～10)kHz	U=0.2%+0.10mA		
						(10～30)kHz	U=0.4%+0.20mA		
					0.33A～1.09999A	(10～45)Hz	U=0.18%+0.10mA		
						45Hz～1kHz	U=0.05%+0.10mA		

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281	数字万用表	交流电流	0410	JJG35(航天)1999《交流数字电流表》	0.33A～1.09999A	(1～5)kHz	U=0.6%+0.10mA		
						(5～10)kHz	U=2.5%+5.0mA		
					1.1A～2.99999A	(10～45)Hz	U=0.18%+0.10mA		
						45Hz～1kHz	U=0.05%+0.10mA		
						(1～5)kHz	U=0.6%+0.10mA		
						(5～10)kHz	U=2.5%+5.0mA		
					3A～10.9999A	(10～45)Hz	U=0.06%+2.0mA		
						45Hz～1kHz	U=0.10%+0.20mA		
						(1～5)kHz	U=3.0%+2.0mA		
					11A～20.5A	(45～100)Hz	U=0.12%+5.0mA		
						100Hz～1kHz	U=0.15%+5.0mA		
						(1～5)kHz	U=3.0%+5.0mA		
		电阻	0410	JJG724-1991《直流数字欧姆表》	0.1Ω～329.9999Ω		U=0.0028%+0.002Ω		
					330Ω～1.099999kΩ		U=0.0028%+0.02Ω		
					33kΩ～109.9999kΩ		U=0.0028%+1Ω		
					110kΩ～329.9999kΩ		U=0.0032%+10Ω		

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281	数字万用表	电阻	0410	JJG724-1991《直流数字欧姆表》	330kΩ～1.099999MΩ	330kΩ～1.099999MΩ	U=0.0032%+10Ω		
					1.1MΩ～3.299999MΩ		U=0.006%+0.15kΩ		
					3.3MΩ～10.99999MΩ		U=0.013%+0.25kΩ		
					11MΩ～32.99999MΩ		U=0.025%+2.5kΩ		
					33MΩ～109.9999MΩ		U=0.05%+3.0kΩ		
					110MΩ～329.9999MΩ		U=0.3%+0.10MΩ		
					330MΩ～1100MΩ		U=1.5%+0.50MΩ		
282	数据采集器	直流电压	0410	JJG315-1983《直流数字电压表》	1mV～330mV		U_{rel}=0.0040%		
					0.33V～3.3V		U_{rel}=0.0017%		
					3.3V～33V		U_{rel}=0.0016%		
					33V～330V		U_{rel}=0.0023%		
					330V～1000V		U_{rel}=0.0032%		
		交流电压	0410	JJG(航天)34-1999《交流数字电压表》	1mV～33mV	45Hz～10kHz	U_{rel}=0.080%		
					33mV～330mV	45Hz～10kHz	U_{rel}=0.024%		
					0.33V～3.3V	45Hz～10kHz	U_{rel}=0.017%		

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282	数据采集器	交流电压	0410	JJG(航天)34-1999《交流数字电压表》	3.3V～33V	45Hz ～10kHz	U_{rel}=0.020%		
					33V～330V	45Hz ～10kHz	U_{rel}=0.024%		
					330V～1000V	45Hz ～10kHz	U_{rel}=0.036%		
		直流电流	0410	JJG598-1989《直流数字电流表》	1μA～330μA		U_{rel}=0.040%		
					0.33mA～3.3mA		U_{rel}=0.015%		
					3.3mA～33mA		U_{rel}=0.014%		
					33mA～330mA		U_{rel}=0.014%		
					0.33A～3A		U_{rel}=0.028%		
					3A～11A		U_{rel}=0.062%		
		交流电流	0410	JJG(航天)35-1999《交流数字电流表》	29μA～330μA	45Hz～1kHz	U_{rel}=0.13%		
					0.33mA～3.3mA		U_{rel}=0.13%		
					3.3mA～33mA		U_{rel}=0.069%		
					33mA～330mA		U_{rel}=0.069%		
					0.33A～3A		U_{rel}=0.081%		
					3A～11A		U_{rel}=0.092%		
		电阻	0410	JJG724-1991《直流数字欧姆表》	0Ω～110Ω		U_{rel}=0.0051%		
					110Ω～330Ω		U_{rel}=0.0053%		

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282	数据采集器	电阻	0410	JJG724-1991《直流数字欧姆表》	330Ω～1.1kΩ	U_{rel}=0.0035%		
					1.1kΩ～3.3kΩ	U_{rel}=0.0053%		
					3.3kΩ～11kΩ	U_{rel}=0.0035%		
					11kΩ～33kΩ	U_{rel}=0.0054%		
					33kΩ～110kΩ	U_{rel}=0.0035%		
					110kΩ～330kΩ	U_{rel}=0.0059%		
					330kΩ～1.1MΩ	U_{rel}=0.004%		
					1.1MΩ～3.3MΩ	U_{rel}=0.010%		
					3.3MΩ～11MΩ	U_{rel}=0.016%		
					11MΩ～33MΩ	U_{rel}=0.055%		
					33MΩ～110MΩ	U_{rel}=0.068%		
		温度	0410	JJG617-1996《数字温度指示调节仪》	(-200～-100)℃ (K型)	U=0.28℃		
					(-100～-25)℃(K型)	U=0.15℃		
					(-25～120)℃(K型)	U=0.12℃		
					(120～1000)℃(K型)	U=0.22℃		
					(1000～1300)℃(K型)	U=0.35℃		

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283	电流表、电压表、电阻表（指针万用表）	直流电压	0410	JJG124-2005《电流表、电压表、功率表、及电阻表》	1mV～0.1V		U_{rel}=0.8%～0.2%		
					0.1V～0.25V		U_{rel}=1.6%～0.3%		
					0.25V～2.5V		U_{rel}=1.6%～0.3%		
					2.5V～10V		U_{rel}=0.8%～0.2%		
					10V～50V		U_{rel}=3.3%～0.3%		
					50V～250V		U_{rel}=3.3%～0.3%		
					250V ～1000V		U_{rel}=0.8%～0.2%		
		交流电压			1mV～10V	（45Hz～1kHz）	U_{rel}=1.6%～0.3%		
					10V～50V		U_{rel}=3.3%～0.3%		
					50V～250V		U_{rel}=1.6%～0.3%		
					250V～1000V		U_{rel}=1.6%～0.3%		
		直流电流			1μA～50μA		U_{rel}=1.6%～0.3%		
					0.05mA～2.5mA		U_{rel}=1.6%～0.3%		
					2.5mA～25mA		U_{rel}=1.6%～0.3%		
					0.025A～0.25A		U_{rel}=1.6%～0.3%		
					0.25A～10A		U_{rel}=1.6%～0.3%		
		交流电流			1μA～50μA	（45Hz～1kHz）	U_{rel}=1.6%～0.3%		
					0.05mA～2.5mA		U_{rel}=1.6%～0.3%		

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283	电流表、电压表、电阻表（指针万用表）	交流电流	0410	JJG124-2005《电流表、电压表、功率表、及电阻表》	2.5mA～25mA	（45Hz～1kHz）	U_{rel}=1.6%～0.3%		
					0.025A～0.25A		U_{rel}=1.6%～0.3%		
					0.25A～10A		U_{rel}=1.6%～0.3%		
		电阻			1mΩ～110MΩ		U_{rel}=0.8%		
284	钳形电流表	电流	0410	JJF1075-2001《钳形电流表》	16.5mA～164.995mA	DC～60Hz	U_{rel}=0.6%		
					165mA～1.64995A		U_{rel}=0.1%		
					1.65A～16.4995A				
					16.5A～165A				
					165A～1000A		U_{rel}=0.2%		
285	数字功率计	交流功率	0410	JJG780-1992《交流数字功率表》	(0.33～1000)V	(45～65)Hz	U_{rel}=0.09%		
					(90～329.99)mA				
					(0.33～1000)V		U_{rel}=0.12%		
					(0.33～0.8999)A				
					(0.33～1000)V		U_{rel}=0.10%		
					(0.9～2.1999)A				
					(0.33～1000)V		U_{rel}=0.13%		
					(2.2～2.4999)A				

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285	数字功率计	交流功率	0410	JJG780-1992《交流数字功率表》	(0.33～1000)V	(45～65)Hz	U_{rel}=0.11%		
					(4.5～20.5)A				
286	电参数测量仪	交流电压	1700	JJG780-1992《交流数字功率表》	(3.3～33)mV	(10～45)Hz	U=0.12%+9μV		
						45Hz～10kHz	U=0.023%+9μV		
						(10k～20k)Hz	U=0.03%+9μV		
						(20k～50k)Hz	U=0.15%+9μV		
						(50k～100k)Hz	U=0.53%+18μV		
						(100k～500k)Hz	U=1.2%+75μV		
					(33～330)mV	(10～45)Hz	U=0.045%+12μV		
						45Hz～10kHz	U=0.02%+12μV		
						(10k～20k)Hz	U=0.023%+12μV		
						(20k～50k)Hz	U=0.053%+12μV		
						(50k～100k)Hz	U=0.12%+48μV		
						(100k～500k)Hz	U=0.3%+0.11mV		
					(0.33～3.3)V	(10～45)Hz	U=0.045%+75μV		
						45Hz～10kHz	U=0.017%+30μV		
						(10k～20k)Hz	U=0.029%+75μV		
					(0.33～3.3)V	(20k～50k)Hz	U=0.045%+75μV		

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286	电参数测量仪	交流电压	1700	JJG780-1992《交流数字功率表》	(0.33～3.3)V	(50k～100k)Hz	U=0.11%+0.19mV		
						(100k～500k)Hz	U=0.36%+0.9mV		
					(3.3～33)V	(10～45)Hz	U=0.045%+0.98mV		
						45Hz～10kHz	U=0.017%+0.3mV		
						(10k～20k)Hz	U=0.036%+0.98mV		
						(20k～50k)Hz	U=0.053%+0.98mV		
						(50k～100k)Hz	U=0.14%+1.6mV		
					(33～330)V	(10～45)Hz	U=0.029%+3mV		
						45Hz～10kHz	U=0.03%+9mV		
						(10k～20k)Hz	U=0.038%+9mV		
						(20k～50k)Hz	U=0.045%+9mV		
						(50k～100k)Hz	U=0.3%+75mV		
					(330～1000)V	(10～45)Hz	U=0.045%+15mV		
						45Hz～10kHz	U=0.038%+15mV		
						(10k～20k)Hz	U=0.045%+15mV		
286	电参数测量仪	交流电流	1700	JJG780-1992《交流数字功率表》	(29～330)μA	(10～20)Hz	U=0.3%+0.15μA		
						(20～45)Hz	U=0.23%+0.15μA		
						45Hz～1kHz	U=0.19%+0.15μA		

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286	电参数测量仪	交流电流	1700	JJG780-1992《交流数字功率表》	(29～330)μA	1kHz～5kHz	U=0.45%+0.23μA		
						5kHz～10kHz	U=0.12%+0.3μA		
						10kHz～30kHz	U=0.12%+0.3μA		
					(0.33～3.3)mA	(10～20)Hz	U=0.3%+0.23μA		
						(20～45)Hz	U=0.19%+0.15μA		
						45Hz～1kHz	U=0.15%+0.15μA		
						1kHz～5kHz	U=0.3%+0.3μA		
						5kHz～10kHz	U=0.75%+0.36μA		
						10kHz～30kHz	U=1.5%+0.9μA		
					(3.3～33)mA	(10～20)Hz	U=0.27%+3μA		
						(20～45)Hz	U=0.14%+3μA		
						45Hz～1kHz	U=0.06%+3μA		
						1kHz～5kHz	U=0.12%+3μA		
						5kHz～10kHz	U=0.3%+3.6μA		
						10kHz～30kHz	U=0.6%+6μA		
					(33～330)mA	(10～20)Hz	U=0.27%+30μA		
						(20～45)Hz	U=0.14%+30μA		
						45Hz～1kHz	U=0.06%+30μA		
						1kHz～5kHz	U=0.15%+75μA		

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286	电参数测量仪	交流电流	1700	JJG780-1992《交流数字功率表》	(33～330)mA	5kHz～10kHz	U=0.3%+0.15 mA		
						10kHz～30kHz	U=0.6%+0.3 mA		
					(0.33～1.1)A	(10～45)Hz	U=0.27%+0.15mA		
						45Hz～1kHz	U=0.075%+0.15mA		
						1kHz～5kHz	U=0.9%+0.15 mA		
						5kHz～10kHz	U=3.8%+7.5 mA		
					(1.1～3.3)A	(10～45)Hz	U=0.27%+0.10mA		
						45Hz～1kHz	U=0.075%+0.15mA		
						1kHz～5kHz	U=0.9%+0.15 mA		
						5kHz～10kHz	U=3.8%+7.5 mA		
					(3.3～11)A	(10～45)Hz	U=0.09%+3mA		
						45Hz～1kHz	U=0.15%+3mA		
						1kHz～5kHz	U=4.5%+3mA		
					(11～20)A	45Hz～100Hz	U=0.18%Ix+7.5mA		
						100Hz～1kHz	U=0.23%Ix+7.5mA		
						1kHz～5kHz	U=4.5%Ix+7.5mA		
286	电参数测量仪	交流功率	1700	JJG780-1992《交流数字功率表》	(10～99)mW	(20～45)Hz	U=0.25%+0.05mW		
						45Hz～1kHz	U=0.18%+0.05mW		

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286	电参数测量仪	交流功率	1700	JJG780-1992《交流数字功率表》	(10～99)mW	1kHz～5kHz	U=0.5%+0.06 mW		
						5kHz～10kHz	U=1.2%+0.10 mW		
					(99～990)mW	(20～45)Hz	U=0.19%+0.05mW		
						45Hz～1kHz	U=0.16%+0.08mW		
						1kHz～5kHz	U=0.3%+0.10 mW		
						5kHz～10kHz	U=0.7%+0.15 mW		
					(0.99～9.9)W	(20～45)Hz	U=0.19%+0.5 mW		
						45Hz～1kHz	U=0.15%+0.5 mW		
						1kHz～5kHz	U=0.12%+0.5 mW		
						5kHz～10kHz	U=0.3%+0.8 mW		
					(9.9～99)W	(20～45)Hz	U=0.14%+5mW		
						45Hz～1kHz	U=0.15%+5mW		
						1kHz～5kHz	U=0.15%+12 mW		
						5kHz～10kHz	U=0.3%+60mW		
					(99～330)W	(10～45)Hz	U=0.27%+60 mW		
						45Hz～1kHz	U=0.07%+60 mW		
						1kHz～5kHz	U=0.9%+60mW		
						5kHz～10kHz	U=3.5%+60mW		
					(330～990)W	(10～45)Hz	U=0.27%+60 mW		

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286	电参数测量仪	交流功率	1700	JJG780-1992《交流数字功率表》	(330～990)W	45Hz～1kHz	U=0.07%+60 mW		
						1kHz～5kHz	U=0.9%+60mW		
						5kHz～10kHz	U=7.5%+60mW		
					(0.99～3.3)kW	(10～45)Hz	U=0.09%+1.2W		
						45Hz～1kHz	U=0.15%+0.12W		
						1kHz～5kHz	U=4.5%+0.6W		
					(3.3～20)kW	45Hz～100Hz	U=0.2%+3W		
						100Hz～1kHz	U=0.13%+3W		
						1kHz～5kHz	U=4.5%+3W		
		功率因素	1700		cosΦ：0～1	(40Hz～10kHz)	U=0.3%+0.003		
		频率	1700		40Hz～10kHz		U_{rel}=0.06%		
287	电子负载	电压	0410	JJF(电子)30101-2007《直流电子负载校准规范》	(1～1000)V		U_{rel}=0.0045%		
		电流			(0.1～1)A		U=0.06%+0.24mA		
					(1～10)A		U=0.12%+0.8mA		
					(10～30)A		U=0.15%+0.9mA		
					(30～120)A		U=0.50%+2.2mA		
288	工频单相相位表	相位角	0410	JJG440-2008《工频单相相位表》	-180° ～0°		U_{rel}=0.18%		

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288	工频单相相位表	相位角	0410	JJG440-2008《工频单相相位表》	0° ～180°			
289	频率表	频率	0412	JJG603-2006《频率表》	10 Hz～500kHz	U_{rel}=0.003%		
290	绕组温升带电测试仪	直流电阻	1700	JJG837-2003《直流低电阻表检定规程》JJG724-1991《直流数字式欧姆表检定规程》	10mΩ	U_{rel}=0.05%		
					100mΩ	U_{rel}=0.05%		
					0.1Ω～2Ω	U_{rel}=0.10%～0.06%		
					2Ω～20Ω	U_{rel}=0.11%～0.03%		
					20Ω～200Ω	U_{rel}=0.09%～0.01%		
					0.2kΩ～2kΩ			
					2kΩ～20kΩ	U_{rel}=0.09%～0.06%		
					20kΩ～100kΩ	U_{rel}=0.11%～0.02%		
291	直流低电阻表	电阻	0410	JJG837-2003《直流低电阻表》	1mΩ～100mΩ	U_{rel}=0.05%		
					0.1Ω～2Ω	U_{rel}=0.10%～0.06%		
					2Ω～20Ω	U_{rel}=0.11%～0.03%		
					20Ω～200Ω	U_{rel}=0.09%～0.01%		
					0.2kΩ～2kΩ			
					2kΩ～20kΩ	U_{rel}=0.09%～0.06%		

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291	直流低电阻表	电阻	0410	JJG837-2003《直流低电阻表》	20kΩ～100kΩ		U_{rel}=0.11%～0.02%		
					100kΩ～10MΩ		U_{rel}=1.6%		
292	接地电阻表	电阻	0410	JJG366-2004《接地电阻表》	(0.1～1) Ω		U_{rel}=1.0%		
					(1～10) Ω		U_{rel}=0.5%		
					(10～100) Ω		U_{rel}=0.5%		
					(100～2000) Ω		U_{rel}=0.5%		
293	接地导通电阻测试仪	电阻	0410	JJG 984-2004《接地导通电阻测试仪》	(10～1000)mΩ		U_{rel}=(0.2～0.7)%		
		电流			(1~60)A		U=(0.2~6)%		
294	耐电压测试仪	直流电压	0410	JJG795-2004《耐电压测试仪》	1V～10kV		U_{rel}=1.0%～0.5%		
		交流电压			1V～10kV	50Hz～1kHz	U_{rel}=1.2%～0.6%		
		直流电流			(0.1～100)mA		U_{rel}=0.5%～0.1%		
		交流电流			(0.1～100)mA	50Hz～1kHz	U_{rel}=0.7%～0.3%		
		时间			(1-3600)s		U_{rel}=0.2%		
295	高频耐电压测试仪(匝间耐压)	电压	0403	JJG795-2004《耐电压测试仪》	(0.1～40)kV	1kHz～10MHz	U_{rel}=2.5%～1.2%		
296	火花试验机	交流电压	0426	JJG(浙)84-2006《火花试验机》	(0.1～10)kV		U_{rel}=2.2%～1.5%		
					(10～40)kV		U_{rel}=0.6%		
		直流电压			(0.1～10)kV		U_{rel}=1.9%～0.7%		

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296	火花试验机	直流电压	0426	JJG(浙)84-2006《火花试验机》	(10～40)kV		U_{rel}=0.6%		
297	漏电起痕试验仪	电压	0410	JJG795-2004《耐电压测试仪》	(0.05～10)kV	(45~60)Hz	U_{rel}=1.2%～0.6%		
		电流			1mA～1A		U_{rel}=0.5%～0.1%		
		时间			(0.1～100)s		U_{rel}=0.5%		
298	静电腕带/脚盘测试仪	电阻	403.03	JJF(电子)31502-2010《静电腕带/脚盘测试仪校准规范》	1kΩ～≤10MΩ		U_{rel}=1.6%		
					10MΩ～≤100MΩ		U_{rel}=1.9%		
					100MΩ～1000MΩ		U_{rel}=2.6%		
299	表面电阻测试仪	电阻	0402	JJF1285-2011《表面电阻测试仪》	(103～107)Ω		U_{rel}=1.1%		
					(107～1011)Ω		U_{rel}=1.6%～2.9%		
300	绝缘电阻表	电阻	0410	JJG622-1997《绝缘电阻表（兆欧表）》	100Ω～10MΩ		U_{rel}=2.0%		
					10MΩ～1GΩ		U_{rel}=2.3%		
					1GΩ～10GΩ		U_{rel}=3.1%		
					(10~1000)V		U_{rel}=0.5%		
		电压			(≥1~5)kV		U_{rel}=1.0%		
301	电子式绝缘电阻表	电阻	0402	JJG1005-2005《电子式绝缘电阻表检定规程》	100Ω ～<10MΩ		U_{rel}=1.1%		
					10MΩ ～<100MΩ		U_{rel}=1.2%		

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301	电子式绝缘电阻表	电阻	0402	JJG1005-2005《电子式绝缘电阻表检定规程》	100MΩ ～<1GΩ		U_{rel}=1.6%		
					1GΩ ～<10GΩ		U_{rel}=2.8%		
					10GΩ ～100GΩ		U_{rel}=6.0%		
		电压			(10～<1000)V		U_{rel}=0.26%		
					(1000～5000)V		U_{rel}=0.78%		
302	高阻计	电阻	0410	JJG 690-2003《高绝缘电阻测量仪(高阻计)检定规程》	0.1MΩ～10MΩ		U_{rel}=0.3%		
					10MΩ～100MΩ		U_{rel}=0.6%		
					100MΩ～1000MΩ		U_{rel}=1.2%		
					1GΩ～10GΩ		U_{rel}=2.3%		
					10GΩ～100GΩ		U_{rel}=5.8%		
		电压			(10~1000)V		U_{rel}=0.5%		
					(≥1~5)kV		U_{rel}=0.8%		
303	泄漏电流测量仪	电压	0410	JJG843-2007《泄漏电流测量仪(表)》	1V～1000V		U_{rel}=0.1%~0.8%		
		电流			1μA～10mA	DC~65Hz	U_{rel}=0.1%~0.4%		
					10mA～100mA		U_{rel}=0.1%~0.2%		
304	安规综合测试仪	交流电压	1700	JJG795-2004《耐电压测试仪》	10mV～10kV (50Hz～1kHz)		U_{rel}=1.2%～0.6%		

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304	安规综合测试仪	直流电压	1700	JJG795-2004《耐电压测试仪》	10mV～10kV	U_{rel}=1.0%～0.5%		
		交流电流			(0.1～100)mA (50Hz～1kHz)	U_{rel}=0.7%～0.3%		
		直流电流			(0.1～100)mA	U_{rel}=0.5%～0.1%		
		时间			(0.1～3600)s	U_{rel}=0.2%		
		交流电流		JJG843-2007《泄漏电流测试仪》	(0.1～100)mA (50Hz～1kHz)	U_{rel}=0.7%～0.3%		
		直流电流			(0.1～100)mA	U_{rel}=0.5%～0.1%		
		绝缘电阻		JJG1005-2005《电子式绝缘电阻表检定规程》	0.1MΩ～10MΩ	U_{rel}=0.3%		
					10MΩ～100MΩ	U_{rel}=0.6%		
					100MΩ～1000MΩ	U_{rel}=1.2%		
					1GΩ～10GΩ	U_{rel}=2.3%		
					10GΩ～100GΩ	U_{rel}=5.8%		
		电压			(10~1000)V	U_{rel}=0.5%		
					(≥1~5)kV	U_{rel}=1%		
		导通电阻		JJG984-2004《接地导通电阻测试仪》	(10～50)mΩ	U_{rel}=1.0%～0.3%		
					(50～1000)mΩ	U_{rel}=0.3%		

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304	安规综合测试仪	导通测试电流	1700	JJG984-2004《接地导通电阻测试仪》	(1~60)A		U=0.2%		
305	线材测试仪	电阻(导通电阻、O/S电阻)	0410	JJG724-1991《直流数字欧姆表》	(0.01～100000)Ω		U_{rel}=0.8%～0.1%		
		绝缘电阻		JJG1005-2005《电子式绝缘电阻表检定规程》	0.1MΩ～10MΩ		U_{rel}=2.0%		
					10MΩ～100MΩ		U_{rel}=2.1%		
					100MΩ～1000MΩ		U_{rel}=2.3%		
		直流电压		JJG795-2004《耐电压测试仪》	(50～10000)V		U_{rel}=1.2% ～0.1%		
		交流电压			(50～10000)V	10Hz～20kHz	U_{rel}=1.5% ～0.1%		
306	直流电阻箱	电阻	0410	JJG982-2003《直流电阻箱》	(0.01～0.1)Ω		U_{rel}=0.54%～0.01%		
					(0.1～1)Ω		U_{rel}=0.06%～0.01%		
					(1～10)Ω				
					(10～100)Ω				
					(100～1000)Ω				
					(1～10)kΩ		U_{rel}=0.01%～0.001%		
					(10～100)kΩ				
307	电容器	电容	0418	JJG183-1992《标准电容器》	1pF～1000μF	(20Hz～100kHz)	U_{rel}=0.06%		
					1pF～1000μF	(100kHz～2MHz)	U_{rel}=0.15%		
308	电感器	电感	0406	JJG726-1991《标准电感器》	1μH～10H	(20Hz～100kHz)	U_{rel}=0.06%		

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308	电感器	电感	0406	JJG726-1991《标准电感器》	1μH～10H	（100kHz～2MHz）	U_{rel}=0.18%		
309	LCR 测量仪	电感	410	JJG（电子）05020-88《GR1658 型 RLC 数字电桥》JJG（电子）05014-88《HP4274A、HP4275A 型多频 LCR 表》	1μH～100mH	100Hz～100kHz	U_{rel}=0.06%		
					1H	100Hz～1kHz	U_{rel}=0.12%		
		电容			1pF～1000μF	100Hz～100kHz	U_{rel}=0.06%		
		电阻			10mΩ	100Hz～100kHz	U_{rel}=0.06%		
					100mΩ				
					0.1Ω～1Ω		U_{rel}=0.60%～0.10%		
					1Ω～10Ω		U_{rel}=0.15%		
					10Ω～100Ω		U_{rel}=0.21%～0.07%		
					0.1kΩ～1kΩ				
					1kΩ～10kΩ				
					10kΩ～100kΩ				
					100kΩ～1MΩ				
		电压			1mV～5V	10Hz～20kHz	U_{rel}=0.4%～0.1%		
						20kHz～50kHz	U_{rel}=0.7%～0.2%		

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309	LCR 测量仪	电压	410	JJG(电子)05020-88《GR1658 型 RLC 数字电桥》JJG(电子)05014-88《HP4274A、HP4275A 型多频 LCR 表》	1mV～5V	50kHz～100kHz	U_{rel}=1.2%～0.2%		
		频率			100Hz～100kHz		$U_{rel}=1\times10^{-5}$		
310	变压器综合测试仪	频率	0410	JJG837-2003《直流低电阻表》	100Hz～≤1kHz		$U_{rel}=1\times10^{-5}$		
					1kHz～≤100kHz				
		电压			1mV～≤1V		U_{rel}=0.11%		
					1V～≤5V		U_{rel}=0.11%～0.14%		
		直流电阻			0.01Ω～≤0.1Ω		U_{rel}=0.14%～1.2%		
					0.1Ω～≤1Ω		U_{rel}=0.23%～1.2%		
					1Ω～≤10Ω		U_{rel}=0.06%～0.23%		
					10Ω～≤100Ω		U_{rel}=0.01%～0.06%		
					100Ω～≤100kΩ		U_{rel}=0.01%		
		电感		JJG(电子)05020-88《GR1658 型 RLC 数字电桥》JJG(电子)05014-88《HP4274A、HP4275A 型多频 LCR 表》	1μH～≤1H		U_{rel}=0.02%		

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310	变压器综合测试仪	电容	0410	JJG(电子)05020-88《GR1658 型 RLC 数字电桥》 JJG(电子)05014-88《HP4274A、HP4275A 型多频 LCR 表》	1pF～≤100 μF		U_{rel}=0.03%		
		匝比		Q/CTI C004-2006《匝比相位测量仪校准方法》	1～≤10000		U_{rel}=0.4%		
311	匝比相位测量仪	匝比	1700	Q/CTI C004-2006《匝比相位测量仪校准方法》	1～10000	30Hz～100kHz	U_{rel}=0.5%		
312	线圈圈数测量仪	线圈圈数	0410	SJ 20241-1993《YG 系列匝数仪检定规程》	(1～≤10)圈		U_{rel}=12%		
					(10～≤100)圈		U_{rel}=1.2%～12%		
					(100～≤1000)圈		U_{rel}=0.16%～1.2%		
					(1000～≤10000)圈		U_{rel}=0.10%～0.16%		
					(10000～≤20000)圈		U_{rel}=0.10%		
313	剩余电流保护器测试仪(RCD 测试仪)	电压	0410	JJF1283-2011《剩余电流动作保护器动作特性检测仪校准规范》	(50～300)V		U=0.85V		
		电流			5mA~1500mA		U_{rel}=0.14%～2.3%		
		跳闸时间	0412		(10～5000)ms		U_{rel}=3.1%～0.03%		

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314	晶体管特性图示仪	电压	0418	JJF1236-2010《半导体管特性图示仪》	(0.01～500)V/div		U_{rel}=1.0%		
		电流			1μA/div～2μA/div		U_{rel}=1.1%		
					2μA/div～1A/div		U_{rel}=1.0%		
315	高压(静电)电压表(棒)	交流电压	1412	JG494-2005《高压静电电压表》	(10～2000)V	(45~65)Hz	U_{rel}=1.5%～2.8%		
					(2～10)kV		U_{rel}=2.1%～3.9%		
		直流电压			(10～2000)V		U_{rel}=0.8%～2.1%		
					(2～10)kV		U_{rel}=1.4%～3.3%		
316	离子风机	离子平衡电压	0410	Q/CTIC 02027-2013《离子风机（风扇）校准方法》	(0～±1100)V		U=2.2V		
		衰减时间	0412		(0.1～999.9)s		U=0.3s		
317	热工仪表校验仪	电压	1502	JJG(粤)001-1991《SR501 型测温仪表检定仪》	(-199～0) mV		U=42μV～4.1μV		
					(0～+199) mV		U=4.1μV～42μV		
		电阻			(1～400)Ω		U=0.5mΩ		
318	电子秒表/时间间隔测量仪(定时器)	时间	0412	JJG237-2010《秒表》	(0～99999)s		U=0.06s～2s		
		日差			±(0～99.99)s/d		U=0.04s/d		
319	机械秒表	时间	0412	JJG237-2010《秒表》	(0.01～900)s		U=0.06s		

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320	钟表分析仪	日差	0412	JJG488-2008《校表仪》	(-21.09～+21.09)s/d	U=0.02s/d		
321	通用计数器/频率计	频率	0412	JJG349-2001《通用计数器》JJG841-2012《微波频率计数器检定规程》	10Hz～26.5GHz	$U_{rel}=2\times10^{-9}$		
		灵敏度	0412		10Hz～12.4GHz	U=0.3dB		
					12.4GHz～26.5GHz	U=0.7dB		
322	驻极体传声器测试仪	输出信号频率	0412	JJF1145-2006《驻极体传声器测试仪》	(10～10000)Hz	U_{rel}=0.04%		
		直流馈电电压	0415		100 mV～100V	U_{rel}=0.03%		
		直流馈电电流	0410		(0.01～100)mA	U_{rel}=0.18%		
		内部负载电阻			10Ω～100kΩ	U_{rel}=0.15%		
		声压灵敏度级	1401		(-60～-30) dB	U=0.28dB		
		级程衰减	1401		(-20～20) dB	U=0.28dB		
323	示波器校准仪	电压	0413	JJG 278-2002《示波器校准仪》	1mV～100mV	$U_{rel}=5\times10^{-4}$～1×10^{-4}		
					100mV～200V	$U_{rel}=1\times10^{-4}$		
		时基			1ns～5s	$U_{rel}=1\times10^{-7}$		
324	示波器/示波表	垂直偏转因数	0410	JJG262-1996《模拟示波器》	1mV/div～5mV/div	U_{rel}=1.5%～0.8%		

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324	示波器/示波表	垂直偏转因数	0410	JJG262-1996《模拟示波器》	5mV/div～10V/div		U_{rel} =0.8%		
		水平偏转因数			1ns/div～10s/div		U_{rel} =0.4%		
		带宽/频响			50kHz～2GHz		U_{rel}=1.5%		
		上升时间			≥150ps		U_{rel} =1.2%		
		过冲			0.1%~20%		U_{rel}=1.2%		
		电阻			800kΩ～1.2MΩ		U_{rel}=0.12%		
		校准信号频率			1mV～100V	10Hz~20kHz	U_{rel}=0.12%		
		校准信号幅度			10Hz～1MHz		U_{rel}= 2×10^{-5}		
325	数字示波器	垂直偏转幅度	0413	JJF1057-1998《数字存储示波器校准规范》	1mV/div～5mV/div		U_{rel}=1.2%～0.3%		
					5mV/div～10V/div		U_{rel}=0.3%		
		扫描时间			0.5ns/div～10s/div		U_{rel}=0.06%		
		带宽/频响			50kHz～2GHz		U_{rel}=1.5%		
		上升时间			≥150ps		U_{rel} =10%		
		过冲			0.1%~20%		U_{rel}=1.2%		
		阻抗			800kΩ～1.2MΩ		U_{rel}=0.12%		
					40Ω～90Ω		U_{rel}=0.12%		
		校准信号频率			1mV～100V	10Hz~20kHz	U_{rel}=0.12%		
		校准信号幅度			10Hz～1MHz		U_{rel}= 2×10^{-5}		

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326	高压探头	衰减比	0413	JJF(电子) 30304-2008 《示波器高压探头校准规范》	1～1000		U_{rel}=1.3%		
327	示波器电流探头	衰减系数	0413	JJF(电子) 30305-2010 《示波器电流探头校准规范》	1～1000		U_{rel}=1.2%		
		交流电流			≤1000A		U_{rel}=1.2%		
		直流电流			≤1000A		U_{rel}=1.2%		
328	示波器差分探头	衰减系数	0413	JJF(电子) 30306-2010 《示波器差分探头校准规范》	1～1000		U_{rel}=1.2%		
329	超高频毫伏表	电平	410	JJG308-2013 《射频电压表检定规程》	1mV～300V	20kHz～1MHz	U_{rel}=0.3%		
					0dBm～+30dBm	1MHz～1GHz	U=0.25dB		
					-40dBm～0dBm	1MHz～1GHz	U=0.3dB		
		频响			20kHz～1MHz		U_{rel}=3%		
					1MHz～1GHz		U=0.5dB		
330	电子电压表	电压	0426	JJG782-1992 《低频电子电压表》	1mV～330V	(45Hz～500kHz)	见下表		
					(26~-30)dBm	(500kHz～1MHz)	U=0.15dB		
	电压测量 CMC								
	电压	频率							
		10Hz~45Hz	45Hz~10kHz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz~500kHz*		
	1mV~32.999mV	0.093%+7μV	0.022%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	0.92%+58μV		

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<table>
<tr><th>序号</th><th>测量仪器名称</th><th>校准参量</th><th>领域代码</th><th>规范代号（含年号）名称</th><th colspan="2">测量范围</th><th>扩展不确定度（校准和测量能力，k=2）</th><th>限制说明</th><th>备注</th></tr>
<tr><td rowspan="4">330</td><td>33mV~329.999mV</td><td>0.037%+9μV</td><td>0.022%+9μV</td><td>0.023%+9μV</td><td>0.043%+9μV</td><td>0.093%+37μV</td><td>0.23%+81μV</td><td></td><td></td></tr>
<tr><td>0.33V~3.29999V</td><td>0.037%+58μV</td><td>0.022%+69μV</td><td>0.026%+69μV</td><td>0.037%+58μV</td><td>0.082%+144μV</td><td>0.27%+0.7mV</td><td></td><td></td></tr>
<tr><td>3.3V~32.999V</td><td>0.037%+0.8mV</td><td>0.022%+0.7mV</td><td>0.031%+0.7mV</td><td>0.043%+0.7mV</td><td>0.10%+1.8mV</td><td>/</td><td></td><td></td></tr>
<tr><td>33V~330V</td><td>0.026%+2.3mV</td><td>0.027%+6.9mV</td><td>0.032%+6.9mV</td><td>0.037%+6.9mV</td><td>0.23%+57.7mV</td><td>/</td><td></td><td></td></tr>
<tr><td rowspan="11">331</td><td rowspan="3">失真度测量仪</td><td>频率</td><td rowspan="3">0413</td><td rowspan="3">JJG251-1997《失真度测量仪》</td><td colspan="2">20Hz～500kHz</td><td>Ure1=0.05%</td><td rowspan="3"></td><td></td></tr>
<tr><td>电压测量</td><td colspan="2">1mV~300V</td><td>见下表 1</td><td></td></tr>
<tr><td>失真度测量</td><td colspan="2">(0.001～30)%</td><td>见下表 2</td><td></td></tr>
<tr><td colspan="10">表 1：电压测量 CMC</td></tr>
<tr><td rowspan="2">电压</td><td colspan="8">频率</td></tr>
<tr><td>10Hz~45Hz</td><td>45Hz~10kHz</td><td>10kHz~20kHz</td><td>20kHz~50kHz</td><td>50kHz~100kHz</td><td>100kHz~500kHz</td><td></td><td></td></tr>
<tr><td>1mV~32.999mV</td><td>0.093%+7μV</td><td>0.022%+7μV</td><td>0.027%+7μV</td><td>0.11%+7μV</td><td>0.40%+14μV</td><td>0.92%+58μV</td><td></td><td></td></tr>
<tr><td>33mV~329.999mV</td><td>0.037%+9μV</td><td>0.022%+9μV</td><td>0.023%+9μV</td><td>0.043%+9μV</td><td>0.093%+37μV</td><td>0.23%+81μV</td><td></td><td></td></tr>
<tr><td>0.33V~3.29999V</td><td>0.037%+58μV</td><td>0.022%+69μV</td><td>0.026%+69μV</td><td>0.037%+58μV</td><td>0.082%+144μV</td><td>0.27%+0.7mV</td><td></td><td></td></tr>
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<tr><td>33V~330V</td><td>0.026%+2.3mV</td><td>0.027%+6.9mV</td><td>0.032%+6.9mV</td><td>0.037%+6.9mV</td><td>0.23%+57.7mV</td><td>/</td><td></td><td></td></tr>
<tr><td>331</td><td colspan="9">表 2：失真度测量 CMC</td></tr>
</table>

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	失真度	频率							
		20Hz，200Hz		400Hz，1kHz	10kHz		20kHz	50kHz	
	30%～0.1%	2.3%±0.00034%		1.2%±0.00034%	2.3%±0.00034%		2.3%±0.00034%	3.5%±0.00034%	
	0.1%～0.03%	2.3%±0.00034%		1.2%±0.00034%	2.3%±0.00034%		2.3%±0.00034%	/	
	0.03%～0.01%	5.8%±0.00034%		5.8%±0.00034%	5.8%±0.00034%		/	/	
	0.01%～0.003%	12%±0.00034%		12%±0.00034%	/		/	/	
332	扫频信号发生器	频率	0416	JJG602-1996《低频信号发生器》JJG442-1986《UHF 电视扫频仪试行检定规程》	20Hz～1GHz		U_{rel}=1×10^{-6}		
		电平			80 mV ～100V	10Hz～20kHz	U_{rel}=0.2%		
					80 mV ～100V	20kHz～100kHz	U_{rel}=0.8%		
					(0～30dBm)	150kHz～1GHz	U=0.22dB		
					(0～-100dBm)	150kHz～1GHz	U=0.34dB		
		失真度			(0.01～100)%	10Hz～20Hz	U_{rel} =23%		
					(0.01～100)%	20Hz～20kHz	U_{rel} =14%		
					(0.01～100)%	20kHz～100kHz	U_{rel} =25%		
333	低频信号发生器	频率	0416	JJG602-1996《低频信号发生器检定规程》	10Hz～1MHz		U_{rel}= 2×10^{-5}		
		电压			1mV～100V	10Hz~20kHz	U_{rel}=0.12%		

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333	低频信号发生器	电压	0416	JJG602-1996《低频信号发生器检定规程》	1mV～100V	20kHz~50kHz	U_{rel}=0.2%		
					1mV～100V	50kHz~100kHz	U_{rel}=0.8%		
					1mV～100V	100kHz~300kHz	U_{rel}=5.2%		
					(30 ~ 26)dBm	300kHz~1MHz	U=0.25dB		
					(26~ -10)dBm		U=0.22dB		
					(-10~ -130)dBm		U=0.22dB~0.30dB		
		失真度			>0.03%~100%	20Hz～20kHz	U_{rel}=7.2%		
						20kHz～110kHz	U_{rel}=14%		
					0.005%~0.03%	20Hz～110kHz	U_{rel}=30%		
334	函数信号发生器	频率	0416.01	JJG840-1993《函数信号发生器检定规程》	1Hz～500MHz		U_{rel} =3×10^{-10}		
		幅度	0416		1mV～100V	10Hz~20kHz	U_{rel}=0.12%		
					1mV～100V	20kHz~50kHz	U_{rel}=0.2%		
					1mV～100V	50kHz~100kHz	U_{rel}=0.8%		
					1mV～100V	100kHz~300kHz	U_{rel}=5.2%		
					(30 ~ 26)dBm	300kHz~500MHz	U=0.25dB		
					(26~ -10)dBm		U=0.22dB		
					(-10~ -130)dBm		U=0.22dB~0.30dB		
		失真度	0416		>0.03%~100%	20Hz～20kHz	U_{rel}=7.2%		

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334	函数信号发生器	失真度	0416	JJG840-1993《函数信号发生器检定规程》	>0.03%~100%	20kHz～110kHz	U_{rel}=14%		
					0.005%~0.03%	20Hz～110kHz	U_{rel}=30%		
		谐波	0416.05		(-80~0)dB	100kHz～500MHz	U=0.70dB		
		调幅度	0416		载波频率	调制频率	调幅范围(5~99)%		
					100kHz~10MHz	10Hz~10kHz	U_{rel}=1.7%		
					10MHz~26.5GHz	10Hz~50kHz	U_{rel}=1.2%		
						50kHz~100kHz	U_{rel}=1.7%		
		调频频偏			载波频率	调制频率	频偏范围(0~500)kHz		
					100kHz~10MHz	10Hz~10kHz	U_{rel}=1.2%		
					10MHz~26.5GHz	10Hz~100kHz	U_{rel}=1.2%		
						100kHz~200kHz	U_{rel}=3.5%		
		调相相移	0416		载波频率	调制频率	相移范围(0~400)rad		
					100kHz~10MHz	50Hz~10kHz	U_{rel}=1.2%		
					10MHz~26.5GHz	50Hz~100kHz	U_{rel}=1.2%		
		调制频率			100Hz~100kHz		U_{rel}=2.2×10^{-5}		
		调制失真度			0.001%~100 %（-100dB~0dB）		U_{rel}=6.9%		

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335	音频分析仪	输出频率	0413	JJG(电子)30302-2008《音频分析仪检定规程》JJF1395-2013《音频分析仪校准规范》	10Hz～300kHz	10Hz～300kHz	U_{rel}= 2×10^{-5}		
		输出电压			1mV～100V	10Hz~20kHz	U_{rel}=0.12%		
					1mV～100V	20kHz~50kHz	U_{rel}=0.2%		
					1mV～100V	50kHz~100kHz	U_{rel}=0.8%		
					1mV～100V	100kHz~300kHz	U_{rel}=5.2%		
		输出信号失真度			>0.03%~100%	20Hz～20kHz	U_{rel}=7.2%		
						20kHz～110kHz	U_{rel}=14%		
					0.005%~0.03%	20Hz～110kHz	U_{rel}=30%		
		频率测量			10Hz～300kHz		U_{rel}= 3.4×10^{-6}		
		交流电压测量			1mV~330V	见下表 1			
		失真度测量			(0.001～30)%	见下表 2			

表 1：电压测量 CMC

电压	频率							
	10Hz~45Hz	45Hz~10kHz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz~500kHz*		
1mV~32.999mV	0.093%+7μV	0.022%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	*0.92%+58μV*		
33mV~329.999mV	0.037%+9μV	0.022%+9μV	0.023%+9μV	0.043%+9μV	0.093%+37μV	*0.23%+81μV*		

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335	0.33V~3.29999V	0.037%+58μV	0.022%+69μV	0.026%+69μV	0.037%+58μV	0.082%+144μV	*0.27%+0.7mV*		
	3.3V~32.999V	0.037%+0.8mV	0.022%+0.7mV	0.031%+0.7mV	0.043%+0.7mV	0.10%+1.8mV	／		
	33V~330V	0.026%+2.3mV	0.027%+6.9mV	0.032%+6.9mV	0.037%+6.9mV	0.23%+57.7mV	／		
	表 2：失真度测量 CMC								
	失真度	频率							
		20Hz，200Hz		400Hz，1kHz	10kHz	*20kHz*	50kHz		
	30%～0.1%	2.3%±0.00034%		1.2%±0.00034%	2.3%±0.00034%	*2.3%±0.00034%*	3.5%±0.00034%		
	0.1%～0.03%	2.3%±0.00034%		1.2%±0.00034%	2.3%±0.00034%	*2.3%±0.00034%*	/		
	0.03%～0.01%	5.8%±0.00034%		5.8%±0.00034%	5.8%±0.00034%	／	/		
	0.01%～0.003%	12%±0.00034%		12%±0.00034%	/	／	/		
336	滤波器	带宽/截止频率	0419	JJG 449-2001《倍频程和 1/3 倍频程滤波器检定规程》	20Hz～100kHz	U_{rel} =3.0×10^{-4}			
					100kHz～6GHz	U_{rel} =1.6×10^{-4}			
		波动度			10Hz～50kHz	U=0.02dB			
					50kHz～100kHz	U=0.07dB			
					100kHz～6GHz	U=0.17dB			
337	调制度测量仪	频率	0416	JJF1111-2003《调制度测量仪》	150kHz～1GHz	U_{rel}=1×10^{-6}			

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序号	测量仪器名称	校准参量	领域代码	规范代号（含年号）名称	测量范围		扩展不确定度（校准和测量能力，k=2）	限制说明	备注
337	调制度测量仪	调幅度	0416	JJF1111-2003《调制度测量仪》	(5%～99%)	20Hz～50Hz，50kHz～100kHz	U_{rel}=4%		
					(5%～99%)	50Hz～50kHz	U_{rel}=1.3%		
		调频频偏			50Hz～100kHz	0.4kHz～400kHz	U_{rel}=1.3%		
338	功率计	功率	0419	JJG(航天)22-1987《436A 型功率计检定规程》	0.1mW/0.3mW/1mW/3mW/10mW/30mW/100mW		U_{rel}=0.3%		
		输出功率	0419		(-10～20)dBm 0.1MHz～18GHz		U=0.1dB		
339	功率传感器	功率校准因子	0419	GJB/J 3598-1999《小功率座检定规程》	100kHz～18GHz		U_{rel}=4.0%		
		功率	0419		(10 ～-70)dBm	100kHz～18GHz	U=0.18dB		
340	信号发生器/数字信号发生器	频率	0416	JJG173-2003《信号发生器》JJF1174-2007《数字信号发生器校准规范》	100kHz~26.5GHz		U_{rel}=3×10^{-10}		
		电平			100kHz~4.2GHz	(30 ~ 26)dBm	U=0.25dB		
						(26 ~ -10)dBm	U=0.22dB		
						(-10 ~ -130)dBm	U=0.22dB~0.30dB		
					4.2GHz~8GHz	(30 ~ 26)dBm	U=0.31dB		
						(26 ~ -10)dBm	U=0.28dB		
						(-10 ~ -120)dBm	U=0.28dB~0.35dB		

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序号	测量仪器名称	校准参量	领域代码	规范代号（含年号）名称	测量范围		扩展不确定度（校准和测量能力，k=2）	限制说明	备注
340	信号发生器/数字信号发生器	电平	0416	JJG173-2003《信号发生器》JJF1174-2007《数字信号发生器校准规范》	8GHz~12.4GHz	(30 ~ 26)dBm	U=0.33dB		
						(26 ~ -10)dBm	U=0.30dB		
						(-10 ~ -120)dBm	U=0.30dB~0.37dB		
					12.4GHz~18GHz	(30 ~ 26)dBm	U=0.41dB		
						(26 ~ -10)dBm	U=0.40dB		
						(-10 ~ -120)dBm	U=0.40dB~0.47dB		
					18GHz~26.5GHz	(30 ~ 26)dBm	U=0.69dB		
						(26 ~ -10)dBm	U=0.68dB		
						(-10 ~ -120)dBm	U=0.68dB~0.75dB		
		谐波			(-80~0)dB	20Hz～10MHz	U=0.83dB		
						10MHz～3.6GHz	U=0.70dB		
						3.6GHz~8GHz	U=1.3dB		
						8GHz~22GHz	U=1.8dB		
340	信号发生器/数字信号发生器	调幅度	0416	JJG173-2003《信号发生器》JJF1174-2007《数字信号发生器校准规范》	载波频率	调制频率	调幅范围(5~99)%		
					100kHz~10MHz	10Hz~10kHz	U_{rel}=1.7%		
					10MHz~26.5GHz	10Hz~50kHz	U_{rel}=1.2%		

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340	信号发生器/数字信号发生器	调幅度	0416	JJG173-2003《信号发生器》JJF1174-2007《数字信号发生器校准规范》	10MHz~26.5GHz	50kHz~100kHz	U_{rel}=1.7%		
		调频频偏			载波频率	调制频率	频偏范围		
					100kHz~10MHz	10Hz~10kHz	U_{rel}=1.2%		
					10MHz~26.5GHz	10Hz~100kHz	U_{rel}=1.2%		
						100kHz~200kHz	U_{rel}=3.5%		
		调相相移			载波频率	调制频率	相移范围(0~400)rad		
					100kHz~10MHz	50Hz~10kHz	U_{rel}=1.2%		
					10MHz~26.5GHz	50Hz~100kHz	U_{rel}=1.2%		
		调制频率			100Hz~100kHz		U_{rel}=2.2×10^{-5}		
		调制失真度			0.001%~100 %（-100dB~0dB）		U_{rel}=6.9%		
		波形质量因数 Rho			(0~1.000)		U=0.0012		
		EVM			(0~25)%		U=0.29%		
		幅度误差			(0~25)%		U=0.29%		
		相位误差			(0~15)°		U=0.23°		
		频率误差			±30 kHz		U=2.3Hz		
		邻道功率比(ACPR)			(0~80)dBc		U=0.69dB		
		GFSK 误差			(0~5)%		U=3.6kHz		
		DEVM			(0~25)%		U=0.03%		

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341	频谱分析仪/矢量信号分析仪	参考频率	0419	JJF1128-2004《矢量信号分析仪校准规范》JJF1396-2013《频谱分析仪校准规范》	(1/2/5/10)MHz	(1/2/5/10)MHz	U_{rel}=3×10^{-9}		
		频率			100kHz~26.5GHz		U_{rel}=3×10^{-9}		
		电平			100kHz~4.2GHz	(30~26)dBm	U=0.17dB		
						(26~-10)dBm	U=0.15dB		
						(-10~-130)dBm	U=0.15dB~0.23dB		
					4.2GHz~8GHz	(30~26)dBm	U=0.39dB		
						(26~-10)dBm	U=0.36dB		
						(-10~-120)dBm	U=0.36dB~43dB		
					8GHz~12.4GHz	(30~26)dBm	U=0.61dB		
						(26~-10)dBm	U=0.60dB		
						(-10~-120)dBm	U=0.60dB~0.67dB		
					12.4GHz~18GHz	(30~26)dBm	U=0.63dB		
						(26~-10)dBm	U=0.62dB		
						(-10~-120)dBm	U=0.62dB~0.69dB		
					18GHz~26.5GHz	(30~26)dBm	U=1.4dB		
						(26~-10)dBm	U=1.3dB		
						(-10~-120)dBm	U=1.4dB		

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341	频谱分析仪/矢量信号分析仪	扫频宽度	0419	JJF1128-2004《矢量信号分析仪校准规范》JJF1396-2013《频谱分析仪校准规范》	100Hz～20GHz	U_{rel} =0.1%		
		分辨力带宽			1Hz～20MHz	U_{rel} =1%		
		分辨力带宽转换			1Hz～20MHz	U=0.02dB		
		校准信号频率			100kHz~4.2GHz	U_{rel} =3×10^{-9}		
		校准信号电平			100kHz~4.2GHz	U=0.15dB		
		衰减器			0~80dB	U=0.02dB		
		本底噪声			100kHz~26.5GHz	U=1.6dB		
		波形质量因数 Rho			(0~1.000)	U=0.0012		
		EVM			(0~25)%	U=0.29%		
		幅度误差			(0~25)%	U=0.29%		
		相位误差			(0~15)°	U=0.23°		
		频率误差			±30 kHz	U=2.3Hz		
		邻道功率比(ACPR)			(0~80)dBc	U=0.69dB		
		GFSK 误差			(0~5)%	U=3.6kHz		
		DEVM			(0~25)%	U=0.03%		
342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	射频信号发生器部分						

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	频率	0420	JJF1065-2000《射频通信测试仪校准规范》JJF1131-2005《TDMA－GSM 数字移动通信综合测试仪校准规范》JJF1177-2007《 CDMA 数字移动通信综合测试仪校准规范》JJF1276-2011《宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范》JJF1204-2008《TD-SCDMA 数字移动通信综合测试仪校准规范》JJF1278-2011《蓝牙测试仪校准规范》JJF1277-2011《无线局域网测试仪校准规范》	100kHz~26.5GHz		U_{rel} =3×10^{-10}		
		电平			100kHz~4.2GHz	(30 ~ 26) dBm	U=0.25dB		
						(26 ~ -10) dBm	U=0.22dB		
						(-10 ~ -130) dBm	U=0.22dB~0.30dB		
					4.2GHz~8GHz	(30 ~ 26) dBm	U=0.31dB		
						(26 ~ -10) dBm	U=0.28dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	电平	0420	JJF1065-2000《射频通信测试仪校准规范》 JJF1131-2005《TDMA－GSM 数字移动通信综合测试仪校准规范》 JJF1177-2007《CDMA 数字移动通信综合测试仪校准规范》 JJF1276-2011《宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范》 JJF1204-2008《TD-SCDMA 数字移动通信综合测试仪校准规范》 JJF1278-2011《蓝牙测试仪校准规范》 JJF1277-2011《无线局域网测试仪校准规范》	4.2GHz~8GHz	(-10 ~ -120)dBm	U=0.28dB~0.35dB		
					8GHz~12.4GHz	(30 ~ 26)dBm	U=0.33dB		
						(26 ~ -10)dBm	U=0.30dB		
						(-10 ~ -120)dBm	U=0.30dB~0.37dB		
					12.4GHz~18GHz	(30 ~ 26)dBm	U=0.41dB		
						(26 ~ -10)dBm	U=0.40dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	电平	0420	JJF1065-2000《射频通信测试仪校准规范》 JJF1131-2005《TDMA－GSM 数字移动通信综合测试仪校准规范》 JJF1177-2007《CDMA 数字移动通信综合测试仪校准规范》 JJF1276-2011《宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范》 JJF1204-2008《TD-SCDMA 数字移动通信综合测试仪校准规范》 JJF1278-2011《蓝牙测试仪校准规范》 JJF1277-2011《无线局域网测试仪校准规范》	12.4GHz~18GHz	(-10 ~ -120)dBm	U=0.40dB~0.47dB		
					18GHz~26.5GHz	(30 ~ 26)dBm	U=0.69dB		
						(26 ~ -10)dBm	U=0.68dB		
						(-10 ~ -120)dBm	U=0.68dB~0.75dB		
		调幅度	0420		载波频率	调制频率	调幅范围(5~99)%		
					100kHz~10MHz	10Hz~10kHz	U_{rel}=1.7%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调幅度	0420	JJF1065-2000《射频通信测试仪校准规范》 JJF1131-2005《TDMA－GSM 数字移动通信综合测试仪校准规范》 JJF1177-2007《 CDMA 数字移动通信综合测试仪校准规范》 JJF1276-2011《宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范》 JJF1204-2008《TD-SCDMA 数字移动通信综合测试仪校准规范》 JJF1278-2011《蓝牙测试仪校准规范》 JJF1277-2011《无线局域网测试仪校准规范》	10MHz~26.5GHz	10Hz~50kHz	U_{rel}=1.2%		
						50kHz~100kHz	U_{rel}=1.7%		
		调频频偏			载波频率	调制频率	频偏范围(0~500)kHz		
					100kHz~10MHz	10Hz~10kHz	U_{rel}=1.2%		
					10MHz~26.5GHz	10Hz~100kHz	U_{rel}=1.2%		
						100kHz~200kHz	U_{rel}=3.5%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调相相移	0420	JJF1065-2000《射频通信测试仪校准规范》 JJF1131-2005《TDMA－GSM 数字移动通信综合测试仪校准规范》 JJF1177-2007《 CDMA 数字移动通信综合测试仪校准规范》 JJF1276-2011《宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范》 JJF1204-2008《TD-SCDMA 数字移动通信综合测试仪校准规范》 JJF1278-2011《蓝牙测试仪校准规范》 JJF1277-2011《无线局域网测试仪校准规范》	载波频率	调制频率	相移范围 (0~400)rad		
					100kHz~10MHz	50Hz~10kHz	U_{rel}=1.2%		
					10MHz~26.5GHz	50Hz~100kHz	U_{rel}=1.2%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调制频率	0420	JJF1065-2000《射频通信测试仪校准规范》 JJF1131-2005《TDMA－GSM 数字移动通信综合测试仪校准规范》 JJF1177-2007《CDMA 数字移动通信综合测试仪校准规范》 JJF1276-2011《宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范》 JJF1204-2008《TD-SCDMA 数字移动通信综合测试仪校准规范》 JJF1278-2011《蓝牙测试仪校准规范》 JJF1277-2011《无线局域网测试仪校准规范》	100Hz~100kHz		U_{rel}=2.2×10^{-5}		
		调制失真度			0.001%~100 % (－100dB~0dB)		U_{rel}=6.9%		
		波形质量因数 Rho			(0~1.000)		U=0.0012		
		EVM			(0~25)%		U=0.29%		
		幅度误差			(0~25)%		U=0.29%		
		相位误差			(0~15)°		U=0.23°		

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序号	测量仪器名称	校准参量	领域代码	规范代号（含年号）名称	测量范围		扩展不确定度（校准和测量能力，k=2）	限制说明	备注
342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	频率误差	0420	JJF1065-2000《射频通信测试仪校准规范》 JJF1131-2005《TDMA－GSM 数字移动通信综合测试仪校准规范》 JJF1177-2007《CDMA 数字移动通信综合测试仪校准规范》 JJF1276-2011《宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范》 JJF1204-2008《TD-SCDMA 数字移动通信综合测试仪校准规范》 JJF1278-2011《蓝牙测试仪校准规范》 JJF1277-2011《无线局域网测试仪校准规范》	±30 kHz	±30 kHz	U=2.3Hz		
		邻道功率比(ACPR)			(0~80)dBc		U=0.69dB		
		GFSK 误差			(0~5)%		U=3.6kHz		
		DEVM			(0~25)%		U=0.05%		
		射频信号分析部分							

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	频率测量	0420	JJF1065-2000《射频通信测试仪校准规范》 JJF1131-2005《TDMA－GSM 数字移动通信综合测试仪校准规范》 JJF1177-2007《CDMA 数字移动通信综合测试仪校准规范》 JJF1276-2011《宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范》 JJF1204-2008《TD-SCDMA 数字移动通信综合测试仪校准规范》 JJF1278-2011《蓝牙测试仪校准规范》 JJF1277-2011《无线局域网测试仪校准规范》	100kHz~26.5GHz		$U_{rel}=3\times10^{-9}$		
		电平测量	0420		100kHz~4.2GHz	(30 ~ 26) dBm	U=0.17dB		
						(26 ~ -10) dBm	U=0.15dB		
						(-10 ~ -130) dBm	U=0.15dB~0.23dB		
					4.2GHz~8GHz	(30 ~ 26) dBm	U=0.39dB		
						(26 ~ -10) dBm	U=0.36dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	电平测量	0420	JJF1065-2000《射频通信测试仪校准规范》 JJF1131-2005《TDMA－GSM 数字移动通信综合测试仪校准规范》 JJF1177-2007《CDMA 数字移动通信综合测试仪校准规范》 JJF1276-2011《宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范》 JJF1204-2008《TD-SCDMA 数字移动通信综合测试仪校准规范》 JJF1278-2011《蓝牙测试仪校准规范》 JJF1277-2011《无线局域网测试仪校准规范》	4.2GHz~8GHz	(-10 ~ -120)dBm	U=0.36dB~0.43dB		
					8GHz~12.4GHz	(30 ~ 26)dBm	U=0.61dB		
						(26 ~ -10)dBm	U=0.60dB		
						(-10 ~ -120)dBm	U=0.60dB~0.67dB		
					12.4GHz~18GHz	(30 ~ 26)dBm	U=0.63dB		
						(26 ~ -10)dBm	U=0.62dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	电平测量	0420	JJF1065-2000《射频通信测试仪校准规范》 JJF1131-2005《TDMA－GSM 数字移动通信综合测试仪校准规范》 JJF1177-2007《CDMA 数字移动通信综合测试仪校准规范》 JJF1276-2011《宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范》 JJF1204-2008《TD-SCDMA 数字移动通信综合测试仪校准规范》 JJF1278-2011《蓝牙测试仪校准规范》 JJF1277-2011《无线局域网测试仪校准规范》	12.4GHz~18GHz	(-10 ~ -120)dBm	U=0.62dB~0.69dB		
					18GHz~26.5GHz	(30 ~ 26)dBm	U=1.4dB		
						(26 ~ -10)dBm	U=1.3dB		
						(-10 ~ -120)dBm	U=1.4dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调幅度测量	0420	JJF1065-2000《射频通信测试仪校准规范》 JJF1131-2005《TDMA－GSM 数字移动通信综合测试仪校准规范》 JJF1177-2007《 CDMA 数字移动通信综合测试仪校准规范》 JJF1276-2011《宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范》 JJF1204-2008《TD-SCDMA 数字移动通信综合测试仪校准规范》 JJF1278-2011《蓝牙测试仪校准规范》 JJF1277-2011《无线局域网测试仪校准规范》	载波频率	调制频率	调幅范围(5~99)%		
					100kHz~10MHz	10Hz~10kHz	U_{rel}=1.7%		
					10MHz~26.5GHz	10Hz~50kHz	U_{rel}=1.2%		
						50kHz~100kHz	U_{rel}=1.7%		
		调频频偏测量	0420		载波频率	调制频率	频偏范围		
					100kHz~10MHz	10Hz~10kHz	U_{rel}=1.2%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调频频偏测量	0420	JJF1065-2000《射频通信测试仪校准规范》 JJF1131-2005《TDMA－GSM 数字移动通信综合测试仪校准规范》 JJF1177-2007《 CDMA 数字移动通信综合测试仪校准规范》 JJF1276-2011《宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范》 JJF1204-2008《TD-SCDMA 数字移动通信综合测试仪校准规范》 JJF1278-2011《蓝牙测试仪校准规范》 JJF1277-2011《无线局域网测试仪校准规范》	10MHz~26.5GHz	10Hz~100kHz	U_{rel}=1.2%		
						100kHz~200kHz	U_{rel}=3.5%		
		调相相移测量	0420		载波频率	调制频率	相移范围(0~400)rad		
					100kHz~10MHz	50Hz~10kHz	U_{rel}=1.2%		
					10MHz~26.5GHz	50Hz~100kHz	U_{rel}=1.2%		
		波形质量因数 Rho 测量	0420		(0~1.000)		U=0.0012		
		EVM 测量			(0~25)%		U=0.29%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	幅度误差测量	0420	JJF1065-2000《射频通信测试仪校准规范》 JJF1131-2005《TDMA－GSM 数字移动通信综合测试仪校准规范》 JJF1177-2007《 CDMA 数字移动通信综合测试仪校准规范》 JJF1276-2011《宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范》 JJF1204-2008《TD-SCDMA 数字移动通信综合测试仪校准规范》 JJF1278-2011《蓝牙测试仪校准规范》 JJF1277-2011《无线局域网测试仪校准规范》	(0~25)%	(0~25)%	U=0.29%		
		相位误差测量			(0~15)°		U=0.23º		
		频率误差测量			±30 kHz		U=2.3Hz		
		邻道功率比(ACPR)测量			(0~80)dBc		U=0.69dB		
		GFSK 误差测量			(0~5)%		U=3.6kHz		
		DEVM 测量			(0~25)%		U=0.03%		
		音频信号发生器部分							

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	输出频率	0413	JJF1395-2013《音频分析仪校准规范》	10Hz～300kHz		U_{rel}= 2×10^{-5}		
		输出电压			1mV～100V	10Hz~20kHz	U_{rel}=0.12%		
					1mV～100V	20kHz~50kHz	U_{rel}=0.2%		
					1mV～100V	50kHz~100kHz	U_{rel}=0.8%		
					1mV～100V	100kHz~300kHz	U_{rel}=5.2%		
		输出信号失真度			>0.03%~100%	20Hz～20kHz	U_{rel}=7.2%		
						20kHz～110kHz	U_{rel}=14%		
					0.005%~0.03%	20Hz～110kHz	U_{rel}=30%		
342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	音频信号分析部分							
		频率测量		JJF1395-2013《音频分析仪校准规范》	10Hz～300kHz		U_{rel}= 3.4×10^{-6}		
		交流电压测量			1mV~330V	见下表 1	/		
		失真度测量			(0.001～30)%	见下表 2	/		
	表 1：电压测量 CMC								
	电压	频率							
		10Hz~45Hz	45Hz~10kHz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz~500kHz*		
	1mV~32.999mV	0.093%+7μV	0.022%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	*0.92%+58μV*		

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	33mV~329.999mV	0.037%+9μV	0.022%+9μV	0.023%+9μV	0.043%+9μV	0.093%+37μV	*0.23%+81μV*		
	0.33V~3.29999V	0.037%+58μV	0.022%+69μV	0.026%+69μV	0.037%+58μV	0.082%+144μV	*0.27%+0.7mV*		
	3.3V~32.999V	0.037%+0.8mV	0.022%+0.7mV	0.031%+0.7mV	0.043%+0.7mV	0.10%+1.8mV	／		
	33V~330V	0.026%+2.3mV	0.027%+6.9mV	0.032%+6.9mV	0.037%+6.9mV	0.23%+57.7mV	／		
342	表 2：失真度测量 CMC								
	失真度	频率							
		20Hz，200Hz		400Hz，1kHz	10kHz		*20kHz*	50kHz	100kHz
	30%～0.1%	2.3%±0.00034%		1.2%±0.00034%	2.3%±0.00034%		*2.3%±0.00034%*	3.5%±0.0034%	5.8%±0.0034%
	0.1%～0.03%	2.3%±0.00034%		1.2%±0.00034%	2.3%±0.00034%		*2.3%±0.00034%*	/	
	0.03%～0.01%	5.8%±0.00034%		5.8%±0.00034%	5.8%±0.00034%		／	/	
	0.01%～0.003%	12%±0.00034%		12%±0.00034%	/		／	/	
343	屏蔽室(箱)	屏蔽效能(衰减)	0419	GB/T 12190-2006《电磁屏蔽室屏蔽效能的测量方法》	(0~110)dB	9kHz~18GHz	*U*=1.7dB		
344	前置放大器	增益	0419	JJG(电子)02007-1989《2627 型前置放大器试行检定规程》	100kHz~4.2GHz	(0~60)dB	*U*=0.45dB		
					4.2GHz~8GHz		*U*=0.56dB		
					8GHz~12.4GHz		*U*=0.60dB		

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344	前置放大器	增益	0419	JJG(电子) 02007-1989 《2627 型前置放大器试行检定规程》	12.4GHz~18GHz	(0~60)dB	U=0.72dB		
					18GHz~26.5GHz		U=1.1dB		
345	衰减器	衰减	0419	JJG387-2005 《同轴电阻式衰减器检定规程》	100kHz~4.2GHz	(0~10)dB	U=0.17dB		
						(10~120)dB	U=0.17dB~0.24dB		
					4.2GHz~8GHz	(0~10)dB	U=0.18dB		
						(10~120)dB	U=0.18dB~0.25dB		
					8GHz~12.4GHz	(0~10)dB	U=0.18dB		
						(10~120)dB	U=0.18dB~0.25dB		
					12.4GHz~18GHz	(0~10)dB	U=0.20dB		
						(10~120)dB	U=0.20dB~0.27dB		
					18GHz~26.5GHz	(0~10)dB	U=0.24dB		
						(10~120)dB	U=0.24dB~0.31dB		
346	人工电源网络	阻抗	1207	JJG(电子) 30806-2007 《人工电源网络校准规范》	(0～100)Ω	9kHz～1MHz	U_{rel}=2.6%		
						1MHz～15MHz	U_{rel}=4.0%		
						15MHz～100MHz	U_{rel}=5.4%		
		电压分压系数			(0～70)dB	9kHz～100MHz	U=0.58dB		

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347	网络分析仪	频率	0420	JJF(电子) 30501-2007 《网络分析仪校准规范》	100kHz~26.5GHz		$U_{rel}=3\times10^{-10}$		
		电平	0420		100kHz~4.2GHz	(30 ~ 26)dBm	U=0.25dB		
						(26 ~ -10)dBm	U=0.22dB		
						(-10 ~ -130)dBm	U=0.22dB~0.30dB		
					4.2GHz~8GHz	(30 ~ 26)dBm	U=0.31dB		
						(26 ~ -10)dBm	U=0.28dB		
						(-10 ~ -120)dBm	U=0.28dB~0.35dB		
					8GHz~12.4GHz	(30 ~ 26)dBm	U=0.33dB		
						(26 ~ -10)dBm	U=0.30dB		
						(-10 ~ -120)dBm	U=0.30dB~0.37dB		
					12.4GHz~18GHz	(30 ~ 26)dBm	U=0.41dB		
						(26 ~ -10)dBm	U=0.40dB		
						(-10 ~ -120)dBm	U=0.40dB~0.47dB		
					18GHz~26.5GHz	(30 ~ 26)dBm	U=0.69dB		
						(26 ~ -10)dBm	U=0.68dB		
						(-10 ~ -120)dBm	U=0.68dB ~0.75dB		
		谐波	416.05		(-80~0)dB	20Hz～10MHz	U=0.83dB		
						10MHz～3.6GHz	U=0.70dB		

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347	网络分析仪	谐波	416.05	JJF(电子)30501-2007《网络分析仪校准规范》	(-80~0)dB	3.6GHz~8GHz	U=1.3dB		
						8GHz~22GHz	U=1.8dB		
		衰减	0420		(0~100)dB		U=（0.1~1.5）dB		
		驻波比	0419		1.01~2.00		U=0.05		
348	射频阻抗分析仪	频率	0419	JJF1127-2004《射频阻抗/材料分析仪校准规范》	1MHz～3.0GHz		U_{rel}=2×10^{-6}		
		阻抗			0.1Ω～50kΩ	1MHz～100MHz	U_{rel}=0.4%		
					0.1Ω～50kΩ	100MHz～3GHz	U_{rel}=1.5%		
		相位			1MHz～100MHz	(-180º～+180º)	U=0.2º		
					100MHz～3.0GHz	(-180º～+180º)	U=0.9º		
		电压			(-40～+40)V		U_{rel}=0.2%		
349	数据信号发生器	内部时钟频率	0419	Q/CTIC301-2008《数据信号发生器校准方法》	≤200MHz		U_{rel}=5×10^{-5}		
		外部时钟输入			(-2.0～+7.0)V		U_{rel}=3%		
		高电平输出			(-3.0～+6.0)V		U_{rel}=3%		
		低电平输出			(-3.0～+6.0)V		U_{rel}=3%		
350	电能表	电能	1514	JJG1055-1997《交流电能表现场校准技术规范》	50W.s~1000kW.h(45Hz~65Hz)		U_{rel}=(0.6~0.2)%		

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CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT

APPENDIX OF ACCREDITATION CERTIFICATE

(Registration No. CNAS L5102)

NAME: CTI Metrology Technology Co., Ltd.

ADDRESS: Building C, Taohuayuan Innovation Park, Xixiang, Bao'an District, Shenzhen, Guangdong, China

Accreditation Criteria:ISO/IEC 17025:2005 and relevant requirements of CNAS

Date of Issue: 2014-05-16 **Date of Expiry: 2017-05-15**

Date of Update：2014-05-16

APPENDIX 3 ACCREDITED CALIBRATION

№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
1	Current Caliper	Length	1303	JJG30-2012 V.R.of Current Calipers	Digital Caliper	(0～600)mm	*U=0.01mm*		
						(＞600～1000)mm	*U=0.02mm*		
					Vernier Caliper	(0～600)mm	*U=0.01mm*		
						(＞600～1000)mm	*U=0.02mm*		
					Dial Caliper	(0～300)mm	*U=0.01mm*		
					Depth caliper	(0～600)mm	*U=0.01mm*		
2	Height Calipers	Length	1303	JJG31-2011 V.R. of Height Calipers	（0～600）mm		*U=0.01mm*		
					(＞600～1000)mm		*U=0.02mm*		
3	Micrometer	Length	1303	JJG21-2008 V.R.of Micrometer	Digital（0～75）mm		*U=1μm*		
					Digital（75～100）mm		*U=2μm*		
					（0～500）mm		*U=2μm*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, k=2)	Limitation	Note
3	Micrometer	Length	1303	JJF1088-2002 （Measuring range500mm～3000)mm V.R.of Micrometer	（500～1000）mm		*U=(3+5L)μm L-m*		
				JJG21-2008 V.R.of Micrometer	calibrating rod Bar（0～500）mm		*U=(0.6+2L)μm L-m*		
4	Depth Micrometers	Length	1303	JJG24-2003 V.R.of Depth Micrometers	（0～300）mm		*U=(1+5L)μm L-m*		
5	Internal Micrometer	Length	1303	JJG22-2003 V.R. of Internal Micrometers	(25～500)mm		*U=(1.5+5L)μm L-m*		
6	Micrometers for Measuring Inside Dimension	Length	1303	JJF 1411-2013 C.S. for Micrometers for Measuring Inside Dimension	(3～150)mm		*U=2μm*		
7	Micrometers with Dial Comparator and Indicating Snap Gauge	Length	1303	JJG26-2011 V.R. of Micrometers with Dial Comparator and Indicating Snap Gauge	(0～100)mm		*U=1.2μm*		
8	The Class of Normal Micrometer	Length	1303	JJG82-2010 V.R.of The Class of Normal Micrometer	≤200mm		*U=2μm*		
9	Micrometer with Gauge	Length	1303	JJG427-2004 V.R.of Micrometer with Gauge	（0～100）mm		*U=1.2μm*		
10	Snap Gauge Reading in 0.01mm	Length	1303	JJG109-2004 V.R.of Snap Gauge Reading in 0.01mm	≤150mm		*U=3.0μm*		
11	Dial Snap Gauges	Length	1303	JJF1253-2010 C.S.for Dial Snap Gauges	(0.5～100) mm	d=0.005mm	*U=0.007mm*		
						d=0.01mm	*U=0.016mm*		
						d=0.02mm	*U=0.031mm*		
12	Straight Edge	Straightness	1303	JF1097-2003 C.S. for Straight Edges	(400～6300)mm		*U=(0.5+0.6L)μm L:m*		
13	Level Rule	Angle	1303	JJF1085-2002 C.S. for Level Rules	(200～1200)mm	(200～1200)mm	*Urel=8 %*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
14	Feeler Gauge	Thickness	1301	JJG62-2007 V.R.of Feeler Gauge	(0.02～3.00)mm		*U=1μm*		
15	Steel Rule	Length	1303	JJG1-1999 V.R.of Steel Rule	(0～2000）mm		*U=(0.05+0.02L)mm L-m*		
16	Steel Tape	Length	1303	JJG4-1999 V.R. of Steel Tape	(0～200)m		*U=(0.1+0.02L)mm L-m*		
17	Square	Angle	1303	JJG7-2004 V.R. of Squares	(0～63)mm		*U =0.5μm*		
					(＞63～125)mm		*U =1.0μm*		
					(＞125～315)mm		*U =2.0μm*		
					(＞315～500)mm		*U =3.0μm*		
					线纹直角尺(0～500)mm		*U =0.01mm*		
18	Wooden Rule(Wooden folded rule)	Length	1303	JJG2-1999 V.R.of Wooden Rule(Wooden folded rule)	≤3000mm		*U=0.2mm*		
19	Inclined Gauge/Clearance Gauge/Cuniform Gauge	Length	1303	JJF1110-2003 C.S.of Construction Quality Tester Sets	（0～15）mm		*U=0.04mm*		
20	Measuring Circum Ference and Diameter of Flexible Part	Length	1308	JJG670-1990 V.R.of Tape for Measuring Circum Ference and Diameter of Flexible Part	（0～211）cm		*U=0.1mm*		
21	Fiber Tape Measuring Rope	Length	1303	JJG5-2001 V.R.of Fiber Tape and Measuring Ropes	≤200m		*U=(1.0+0.04L)mm L-m*		
22	Straight Edge	Straightness	1303	JJG63-2007 V.R.of Straight Edge	≤300mm		*U=0.3μm*		
23	Dial Gauges Reading in 0.001mm	Length	1303	JJG34-2008 V.R. of Dial Gauges	(0～5)mm	d=0.001mm	*U =(1.0+0.3L)μm L-mm*		
						d=0.002mm	*U =(1.2+0.3L)μm L-mm*		
24	Dial Gauges Reading in 0.01mm	Length	1303	JJG34-2008 V.R. of Dial Gauges	（0～10）mm		*U=3μm*		

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25	Wide Range Dial Gauges Reading in 0.01mm	Length	1303	JJG379-2009 V.R. of Wide Range Dial Gauges Reading in 0.01mm	(0～50)mm	(0～50)mm	*U=5μm*		
26	Dial Comparator Reading in 0.001mm	Length	1303	JJG35-2006 V.R. of Comparator	（0～1）mm		*U=1.2μm*		
27	Dial Comparator Reading in 0.01mm	Length	1303	JJG35-2006 V.R. of Comparator	（0～5）mm		*U=3μm*		
28	Bore Dial Indicator	Length	1303	JJF 1102-2003 C.S. for Bore Dial Indicators	Dial indicator of 0.01mm (2～450)mm		*U=3μm*		
					Dial indicator of 0.001 mm (10～400)mm		*U=1.1μm*		
29	Depth Gauge (Reading in0.01 mm)	Length	1303	JJG830-2007 V.R.of Depth Gauge	(0～100)mm		*U=3μm*		
30	Gauge Block	Length	1308	JJG146-2011 V.R.of Gauge Blocks	（0.5～500）mm		*U=(0.15+1.5L)μm L-m*		
31	Step Gauge	Length	1304	Q/CTIC 02031-2013 Calibration Method for Step Gauge	（0～600）mm		*U=(1.5+1.5L)μm L-m*		
32	Caliper Master	Length	1304	Q/CTIC 02031-2013 Calibration Method for Step Gauge	（0～600）mm		*U=(1.5+1.5L)μm L-m*		
33	Common Line Scale	Length	1308	Q/CTIC 02028-2013 Calibration Method for Common Line scale	(0～300）mm		*U=1.1μm*		
34	Plates	Plane degree	1303	JJG117-2013 V.R.of Plates	（2000×3000）mm		*U=(0.6+0.7L)μm L-m Diagonal*		
35	Fineness of Grind Gauge	Length	1309	JJG905-2010 V.R. of Fineness of Grind Gauge	（0～150）μm		*U=0.5μm*		
36	Optimeter	Length	1309	JJG45-1999 V.R. of Optimeter	(0～180)mm		*U=0.11μm*		
37	Tester for Dial Indicator Gauge	Length	1309	JJG201-2008 V.R. of Tester for Dial Indicator Gauge	(0～50)mm		*U=1.0μm*		
					(0～5)mm		*U=0.3μm*		

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38	Magnetic and Eddy Current Measuring Instrument for Coating Thickness	Thickness	1309	JJG818-2005 V.R. of Magnetic and Eddy Current Measuring Instrument for Coating Thickness	(0～1)mm	(0～1)mm	*U=1.1μm*		
					(＞1～10)mm		*U=2.1μm*		
					calibration foil Thickness	(0～100) μm	*U=0.5μm*		
						(＞100～1000) μm	*U=2.5μm*		
39	Thickness Gauge	Length	1303	JJF1255-2010 V.R.of Thickness Gauge	≤30mm		*U=2μm*		
40	Ultrasonic Thickness Gauge	Length	1309	JJF1126-2004 C.S.for Ultrasonic Thickness instruments	(0.5～200)mm		*U=(0.01+0.2L）mm L-m*		
41	X Ray Fluorescence Coating Thickness Instrument	Length	1309	JJF1306-2011 C.S. of X Ray Fluorescence Coating Thickness Instrument	(0～15) μm		*Urel=6%*	Au、Ag、Cu、Ni、Pd、Sn、Zn、Cr、SnPb	
			1309		calibration foil Thickness(0～15) μm		*Urel=6.4%*		
42	Fabric Thickness Gauge	Length	1309	JJF020-2010 V.R.of Fabric Thickness Instrument	≤10mm		*U=1.4μm*		
		Mass			≤500g		*U=0.05g*		
43	Solder Paste Phickness Measurement Instrument	Length	1303	Q/CTIC 02030-2013 Calibration Method for Solder Paste Thickness Tester	（0～1000） μm		*U=4μm*		
44	Solder Paste Thickness Tester Tester Gauge	Length	1308	Q/CTIC 02029-2013 Calibration Method for Solder Paste Thickness Tester Gauge	（0～1000） μm		*U=1.7μm*		

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45	Contact (Stylus) Instruments of Surface Roughness Measurement by the Profile Method	Roughness	1309	JJF1105-2003 C.S. for Contact (Stylus) Instruments of Surface Roughness Measurement by the Profile Method	Ra: (0.012～12.50) μm	Ra: (0.012～12.50) μm	*Urel=3 %*		
46	Roughness Comparison Specimens	Roughness	1308	JJF1099-2003 C.S.for Roughness Comparison Specimens	Ra（0.025～25） μm		*Urel=6%*		
47	Radius Gauge	Length	1308	JJG58-2010 V.R. of Radius Gauge	R (0.1～25.0)mm		*U=(5+0.2L） μm L-mm*		
48	Screw Thread Gauge	Length	1309	JJG60-2012 V.R. of Screw Thread Gauge	(0.40～6.00)mm		*U=(2+0.4L） μm L-mm*		
49	Three Wire set	Length	1301	JJF1207-2008 C.S.for Cylindrical Measuring Pin	Φ(0.118～6.585)mm		*U=0.3μm*		
50	Pin Gauge	Length	1308	JJF1207-2008 C.S.for Cylindrical Measuring Pin	≤Φ30mm		*U=0.5μm*		
51	Optical Flat	Flatness	1303	JJG28-2000 V.R. of Optical Flat	D(30～100)mm		*U=0.01μm*		
52	Parallel Optical Flat	Flatness	1303	JJG28-2000 V.R. of Optical Flat	(12～91)mm		*U=0.01 μm*		
		Parallelism					*U=0.2μm*		
53	Length Meter	Length	1303	JJG987-2004 V.R.of Cable Length Meter	≤10m		*Urel=1.4%*		
					11m～200m		*Urel=0.2%*		
					201m～100000m		*Urel=0.03%*		
54	Laser Diameter Tester	Length	1309	JJF1250-2010 Calibration Specification for Laser Diameter Mmeasuring Gauges	≤30mm		*U=0.5μm*		
55	Digital Display Indicator	Length	1303	JJG830-2007 V.R.of Depth Gauge	≤100mm		*U=2μm*		
56	Digital Display Height Measuring Instrument	Length	1303	JJF1254-2010 Calibration Specification for Height Measuring Instrument with Digital Display	(0～1000)mm		*U=(0.8+1.0L)μm L-m*		

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57	Screw Thread Plug Gauge	Length	1301	JJF1345-2012 V.R. of Cylindrical Screwthread Gauges	Φ (1-100)mm	Φ (1-100)mm	*U=2.0μm*		
58	Screw Thread Ring Gauges	Length	1301	JJF1345-2012 V.R. of Cylindrical Screw thread Gauges	M(2～200)mm		*U=3.0μm*		
59	Standard Ring Gauge	Length	1301	JJG894-1995 V.R. of Standard Ring Gauge	Φ(1～200)mm		*U=(1.0+0.01L） μm L-mm*		
60	Smooth Limit Gauge	Length	1301	JJG343-2012 V.R. of Smooth Limit Gauge	Plug Gauge	(1～100)mm	*U=0.5μm*		
						(＞100～160)mm	*U=0.8μm*		
					Ring Gauge	(1～100)mm	*U=0.5μm*		
						(＞100～160)mm	*U=1.0μm*		
61	Reading Microscope (One Hundred Times mirror、Ten Times Mirror)	Length	1309	JJG571-2004 V.R. of Microscope of Reading And Measuring Microscope	(0～8)mm		*U=2.0μm*		
62	Measuring Microscope	Length	1309	JJG571-2004 V.R. of Microscope of Reading And Measuring Microscope	X：(0～50)mm		*U=1.0μm*		
					Y：(0～13)mm				
63	Metalloscope	magnification ratio	1308	JJG(Education)012-2013 C.S.for Metalloscope	（0.5～120）×		*Urel=1.0%*		
64	Biological Microscopes	Length	1308	JJF1402-2013 C.S.for Biological Microscopes	≤10mm		*U=4μm*		
		magnification ratio			（0.5～120）×		*U rel=1.0%*		
65	Stereomicroscope	magnification ratio	1308	JJG(Education)012-2013 C.S.for Metalloscope	（0.5～120）×		*Urel=1.0%*		
66	Tool maker’s Microscope	Length	1309	JJG56-2000 V.R. of Toolmaker's Microscopes	≤(400×300)mm		*U=(1.0+1.0L)μm L-m*		

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67	Inductive Micrometers	Length	1309	JJF1331-2011 C.S. for Inductive Micrometers	（-1000～+1000）μm（-1000～+1000）μm	*U=0.4μm*		
68	Projector	Length	1309	JJF1093-2002 C.S. for Projectors	≤(400×300)mm	*U=(1.0+3.5L)μm L-m*		
		Angel			(0～360)°	*U=2′*		
69	Projector/Vedio Measuring System	Length	1309	JJF1318-2011 C.S.for Projector/Vedio Measuring System	≤(500×500)mm	*U =(1.0+1.5L)μm L-m*		
70	Coordinate Measuring Machine	Length	1309	JJF1064-2010 C.S. for Coordinate Measuring Machines	(0～1000)mm	*U=(1.5+3L/1000)μm L:mm*		
71	Angle Gauge Blocks	Angle	1308	JJG70-2004 V.R.of Angle Gauge Blocks	（0～90）°	*U=9″*		
72	Universal Bevel Protractor	Angle	1303	JJG33-2002 V.R. of Universal Bevel Protractors	0° ～360°	*U=1′*		
73	Combined Type Angle Rules	Angle	1303	JJF1132-2005 C.S.for Combined Type Angle Rules	（0～180）°	*U=3′*		
74	Electronlc Level Meter(Angle Gauge)	Angle	1303	JJF1119-2004 C.S.for Electronlc Level Meter	0° ～360°，（0～100）mm	*U=0.1°*		
75	Frame Level and Shaft Level	Angel	1309	JJF1084-2002 C.S.for Frame Level and Shaft Level	(0.02～0.15)mm/m	*Urel=4.0 %*		
76	Calibrator for Level	Angel	1309	JJG191-2002 V.R.of Calibrator for Level	(0～1.5)mm/m	*Urel=1.9%*		
77	Sine Bars	Angle	1308	JJG37-2005 V.R.of Sine Bars	(0～45)°，(0～200)mm	*U=2.0″*		
78	Square Chest	verticality	1303	JJG194-2007 V.R.of Square Chest	(100～500)mm	*U=2.8μm*		
79	Vee Blocks	Parallelism	1303	JISB7540-1972 V.R.of Vee Blocks	(0～200)mm	*U=0.9μm*		
		Perpendicnl				*U=1.2μm*		
		height difference				*U=1.2μm*		
80	Contact Type Interferometer	Length	1309	JJG101-2004 V.R.of Contact-type Interferometer	(0～180)mm	*U=0.01μm*		

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81	Length Measuring Machine	Length	1309	JJF1066-2000 C.S.for Length Measuring Machine	(0～1000)mm	(0～1000)mm	*U=(0.5+5L)μm L-m*		
82	Horizontal Metroscope	Length	1309	JJF1189-2008 V.R.of Horizontal Metroscope	(0～500)mm		*U=(0.2+1.5L)μm L-m*		
83	Comparator of Machinery Type	Length	1309	JJG39-2004 V.R.of Comparator of Machinery Type	（-300～+300）μm		*U=0.6μm*		
84	Micro-Kator	Length	1309	JJG118-2010 V.R.of Micro-Kator	（-300～+300）μm		*U=0.2μm*		
85	Swing Tester	Length	1308	JJF1109-2003 C.S.for Concentricity Testers	≤500mm		*U=1.5μm*		
86	Roundness Measuring Instrument	Roundness	1308	JJG429-2000 V.R.for measuring standard instrument of roundness and cylindricity	≤500 μm		*Urel=2.0%*		
87	Test Sieve	Size	1309	JJF1175-2007 C.S.for Test Sieve	20 μm～125mm	ω ≤5mm	*U=2.0μm*		
						5mm＜ω≤125mm	*U=0.02mm*		
88	Pneumatic Measuring Instrument for Micrometer	Length	1309	JJG356-2004 V.R.of Pneumatic Measuring Instrument for Micrometer	(0～400) μm		*U=0.26μm*		
89	Square Testers	verticality	1308	JJF1140-2006 C.S.for Square Testers	（63～1000）mm		*U=1.0μm*		
90	Caliper for Welding Inspection	Length	1303	JJG704-2005 V.R.of Caliper for Welding Inspection	≤100mm		*U=0.02mm*		
		Angle			≤160°		*U=5′*		
91	Toys Instrument	Length	1303	Q/CTIC 02001-2013 Calibration Method for Toys Instrument	（0～1000）mm		*U=(0.005+0.025L)mm L-m*		
		Angle			(0～360)°		*U=2′*		
		Weight			≤60N		*U rel=2%*		
92	Safety Tester of Household and Similar Electrical Appliances	Length	1303	Q/CTIC 02002-2013 Calibration Method for Safety Tester of Household and Similar Electrical Appliances	（0～1000）mm		*U=(0.005+0.025L)mm L-m*		

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92	Safety Tester of Household and Similar Electrical Appliances	Angle	1303	Q/CTIC 02002-2013 Calibration Method for Safety Tester of Household and Similar Electrical Appliances	(0～360)°	(0～360)°	*U=2′*		
		Weight			≤60N		*Urel=2%*		
93	Bimetallic Thermo- meter	Temperature	1501	JJG226-2001 V.R. of Bimetallic Thermometer	(-30～+20)℃		*U=(0.5～0.3) ℃*		
					(20～95)℃		*U=0.4 ℃*		
					(95～300)℃		*U=(0.4～0.6) ℃*		
94	Filled System Thermometers	Temperature	1501	JJG310-2002 V.R. of Filled System Thermometers	(-30～+20)℃		*U=(0.5～0.3) ℃*		
					(20～95)℃		*U=0.5 ℃*		
					(95～300)℃		*U=(0.5～0.6) ℃*		
95	Thermistor Thermometers	Temperature	1501	JJF1379-2012 Calibration Specification of Thermistor Thermometers	(-30～+20)℃		*U=(0.25～0.10) ℃*		
					(20～95)℃		*U=(0.10～0.16) ℃*		
					(95～200)℃		*U=(0.16～0.18) ℃*		
96	Liquid-in-glass thermometers for working	Temperature	1501	JJG130-2011 Verification Regulation of Liquid-in-Glass Thermometers for Working	(-30～+20)℃		*U=(0.12～0.07) ℃*	Accredited only for the common type thermometer	
					(20～95)℃		*U=(0.06～0.10) ℃*		
					(95～300)℃		*U=(0.10～0.20) ℃*		
97	Liquid-in-Glass Thermometers for Petroleum Product	Tempreture	1501	JJG130-2011 V.R.of Liquid-in-Glass Thermome-ters for Petroleum Product	(-30～+20)℃		*U=(0.12～0.07) ℃*	Accredited only for the common type thermometer	
					(20～95)℃		*U=(0.06～0.10) ℃*		

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97	Liquid-in-Glass Thermometers for Petroleum Product	Tempreture	1501	JJG130-2011 V.R.of Liquid-in-Glass Thermome-ters for Petroleum Product	(95～300)℃	(95～300)℃	*U=(0.10～0.20) ℃*	Accredited only for the common type thermometer	
98	Electric Contact Mecury-in-Glass Thermometers	Tempreture	1501	JJG131-2004 V.R.of Electric Contact Mecury-in-Glass Thermometers	(-30～+20)℃		*U=(0.12～0.07) ℃*		
					(20～95)℃		*U=(0.06～0.10) ℃*		
					(95～300)℃		*U=(0.10～0.20) ℃*		
99	Industry Platinum/Copper Resistance Thermometers	Tempreture	1501	JJG229-2010 V.R. of Industry Platinum Copper Resistance Thermometers	(-40～+300)℃		*0 ℃: U=0.07 ℃ 100 ℃: U=0.10 ℃*	Except for Class AA	
100	Working Base Metal Thermocouple	Tempreture	1501	V.R. of Working Base Metal Thermocouple JJG351-1996	(-30～+300)℃		*U=0.3 ℃*		
					(300～1000)℃		*U=1.6 ℃*		
101	Sheathed Thermocouples	Temperature	1501	JJF1262-2010 Calibration Specification for Sheathed Thermocouples	(-80~+300)℃		*U=(0.7~0.9) ℃*		
					(300~1100)℃		*U=(0.9~1.5) ℃*		
102	Radiation Thermometers	Radiation Tempreture	1501	JJG856-1994 V.R. of the Working Radiation Thermometers below 500℃	(50～500)℃; wavelength:(8～14)μm		*U=(1.8～3.3) ℃*		
103	Thermal imagers	Radiation Tempreture	1501	JJF1187-2008 V.R.of Thermal imagers	(50～500)℃ wavelength:(8～14)μm		*U=(1.8～3.3) ℃*		
104	Thermograph and hygrometer	Temperature	1501	JJG205-2005 V.R.of Mechanical Thermohygrometers	(5～50)℃		*U=0.5 ℃*		
		Humidity	1517		(20～95)%RH		*U=(1.5～1.6)%RH*		

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105	Digital hygrometer (digital temperature and humidity recorder)	Temperature	1501	JJG205-2005 V.R.of Mechanical Thermohygrometers JJF1076-2001 Calibration Specification of humidity sensors	（5～50）℃	（5～50）℃	*U=0.3 ℃*		
		Humidity	1517		（20～70）%RH		*U=(1.8～1.7)%RH*		
					（70～98）%RH		*U=(1.7～1.8)%RH*		
106	Digital Thermometers	Temperature	1503	JJG617-1996 V.R. of Digital Temperaure Indicators And Controllers	(-200～0)℃		*U=(0.4～0.3) ℃*		
					(0～1300)℃		*U=(0.3～0.6) ℃*		
107	Digital Thermometers (With probe)	Temperature	1502	JJF(su)95-2010 Calibration Specification for Digital Thermometer	(-30~+100)℃		*U=(0.3~0.2) ℃*		
					(100~300)℃		*U=(0.2~0.3) ℃*		
108	Temperature Indication Controller	Temperature	1501	JJG874-2007 V.R.of Temperature Indication Controller	(-30～+20)℃		*U=(0.21～0.11) ℃*		
					(20～95)℃		*U=(0.11～0.17) ℃*		
					(95～300)℃		*U=(0.17～0.23) ℃*		
109	Digital Temperature Indicators	Temperature	1502	JJG617-1996 V.R. of Digital Temperaure Indicators And Controllers	(-200～0)℃		*U=(0.4～0.3) ℃*		
					(0～1800)℃		*U=(0.3～0.7) ℃*		
110	Analogue Temperature Indicator and controller with Thermo- resister	Temperature	1502	JJG951-2000 V.R. of Analogue Temperature Indicators and Controllers	(0~800)℃		*U=(0.29～0.60) ℃*		
111	Analogue Temperature Indicator and controller with Thermo- couples	Temperature	1502	JJG951-2000 V.R. of Analogue Temperature Indicators and Controllers	(0~1300)℃		*U=(0.8～1.3) ℃*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
112	Constant Temperature and Humidity Box	Temperature	1504	JJF1101-2003 C.S. for the Equipment of the Environmental Testing for Temperature and Humidity	(-80～+180)℃	(-80～+180)℃	*U=0.3 ℃*		
		Humidity	1517		(0～100)%RH		*U=1.5%RH*		
113	Constant Temperature Box	Temperature	1504	JJF1101-2003 C.S. for the Equipment of the Environmental Testing for Temperature and Humidity	(-80～+300)℃		*U=(0.5～0.4) ℃*		
					(0～300)℃		*U=(0.4～1.7) ℃*		
114	Salt Fog Testing Box	Temperature	1504	JJF(liao)75-2009 C.S. for the Equipment of Salt Fog Testing Box	（30～75）℃		*U=(0.21～0.26) ℃*		
		Salt Fog Sinking Rate			(1~2)ml /(80cm2.h)		*U=0.2ml/(80cm2·h)*		
115	Steam aging test chanber	Temperature	1501	JJF1101-2003 C.S. for the Equipment of the Environmental Testing for Temperature and Humidity	(0~98)℃		*U=(0.3~0.4) ℃*		
116	UV aging test chamber(xenon lamp aging test chamber)	Temperature	1501	JJF1101-2003 C.S. for the Equipment of the Environmental Testing for Temperature and Humidity	(20~150)℃		*U=0.4 ℃*	Except for UVirradiance	
117	Sand and dust test chamber	Temperature	1504	JJF(jungong）18-2012 Calibration Specification for Dust and Sand testing Equipments	(30~80)℃		*U=0.4 ℃*		
		Wind Speed	1324		(0~10)m/s		*U=0.3m/s*		
		Amount of dust and sand	1316		(0～20)g/(m2・d)		*U=(0.3～0.6)g/(m2・d)*		

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118	thermostatic water bath	Temperature	1504	Q/CTIC 02033-2013 Calibration method for Electrically-heated thermostatic water bath	Room temperature to ～95℃	Room temperature to ～95℃	*U=(0.21～0.25) ℃*		
		Rotate Speed	1324		(40～200)r/min		*U=(0.17～0.23)r/min*		
119	Hot-silk Tester	Temperature	0431	Q/CTIC111-2013 Calibration method for Hot-silk Tester	(550～1100)℃		*U=（1.9~2.1）℃*		
		Length			(0～200)mm		*U=（0.09~0.35）mm*		
		Time			(0～180)s		*U=0.1s*		
		Weight			(0～2)kg		*U=(0.04~0.06)g*		
120	Burning Tester	Length	1504	Q/CTIC107-2013 Calibration method for Burning Tester	(0~200)mm		*U=(0.09~0.35)mm*		
		Angle			(0~180)°		*U=(0.15~0.18)°*		
		Time			(0~180)s		*U=0.1s*		
121	Thermostatic Bath	Tempreture	1504	JJF1030-2010 Measurement and Test Norm of Thermostatic Bath's Metrological Characteristics	(-80～+300)℃		*U=0.015 ℃*		
122	Clear up setting	Tempreture	1501	JJF1101-2003 C.S. for the Equipment of the Environmental Testing for Temperature and Humidity	（-30～+650）℃		*U=（0.24～0.28）℃*		
123	Mobile Detecting Meter of Temperature	Tempreture	1501	JJF1171-2007 V. R. of Calibration Specification for Temperature Itinerant Detecting Instrument	(-80～0)℃		*U=(0.18～0.10) ℃*		
					(0～300)℃		*U=(0.10～0.17) ℃*		
124	Low-temp brittlement tester	Temperature	1502	Q/CTIC 02023-2010 Calibration method for low-temp Embrittlement testing machine	（-70～room temperature）℃		*U=(0.33～0.16) ℃*		

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125	Paperless Recorder	Temperature	1502	JJG（Jing）36-2004 Verification Regulation of Paperless Recorder	(-200～+300)℃	(-200～+300)℃	*U=0.3 ℃*		
					(300～1300)℃		*U=0.4 ℃*		
126	Ageing tester、oven	Temperature	1503	JJF1101-2003C.S. for the Equipment of the Environmental Testing for Temperature and Humidity	(-30～+800)℃		*U=(0.4～1.7) ℃*		
127	Tunnel Furnace (wave, reflow furnace)	Temperature	1502	Q/CTIC02034-2013 Calibration method for Tunnel Furnace (reflow, wave furnace)	(room temperature～1100)℃		*U=(1.6~2.0) ℃*		
128	Box-type resistance furnace (muffle furnace)	Temperature	1504	JJF1376-2012 box-type resistance furnace calibration standard	(room temperature～+1100)℃		*U=(0.8～1.2) ℃*		
129	Colour fastness to washing tester	Length	1700	JJF（spinning）026-2010 Test for color fastness to washing machine test procedures	（0～300）mm		*U=(0.13~0.41) mm*		
		Rotate Speed			（0～300）r/min		*U=(0.7~3.3) r/min*		
		time			（0～3600）s		*U=0.1s*		
		Temperature			（0～95）℃		*U=(0.31~0.34) ℃*		
130	Vicat heat distortion test machine	Temperature	1700	Q/CTIC 02022-2013 Calibration method for Vicat heat distortion test machine	（0～300）℃		*U=(0.33～0.40) ℃*		
		Weight			（50～2000）g		*U=(0.18~0.19)g*		
		Length			（0.1～20）mm		*U=(0.84~0.89)μm*		
131	Experiment with the laundry, dryer	Temperature	1700	Q/CTIC 02024-2013 Calibration method for experiment with the laundry, dryers	（0～120）℃		*U=(0.31～0.39) ℃*		

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131	Experiment with the laundry, dryer	Rotate speed	1700	Q/CTIC 02024-2013 Calibration method for experiment with the laundry, dryers	(0～1000)r/min	(0～1000)r/min	*U=(1.3~10.1)r/min*		
		Time			(0～3600)s		*U=(0.09~0.25)s*		
		Water High			(0~300)mm		*U=(0.30~0.46)mm*		
		Water Weight			(5~25)gal		*U=(0.28~0.42)gal*		
132	Ironing, sublimation fastness meter	Temperature	1700	JJF（spinning）029-2006 Ironing, sublimation fastness tester test procedures	（0～210）℃		*U=1.7℃*		
		Time			（0～30）min		*U=(0.22～0.35)s*		
		Force			16N		*U=0.42N*		
		Length			（1～2）mm		*U=0.03mm*		
133	Melting- Point-Measuring Instruments	Temperature	0236	JJG701-2008 V.R.of Melting-Point- Measuring Instruments	(50～285) ℃		*U=0.3℃*		
134	Heating Plate	Temperature	1504	Q/CTIC 02026-2013 Calibration method for Heating Plate	(50~100)℃		*U=1.6℃*		
					(100~350)℃		*U=1.7℃*		
135	Temperature Indicators and Simulators by Electrical Simulation and Measurement	Temperature	1502	JJF1309-2011 Calibration Specification of Temperature Indicators and Simulators by Electrical Simulation and Measurement	TC measurement ：(-200~+1300)℃		*U=(0.15~0.23)℃*		
					TC output r：(-200~1300)℃		*U=(0.13~0.21)℃*		
					RTD measurement ：(-200~+800)℃		*U=(0.10~0.15)℃*		

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135	Temperature Indicators and Simulators by Electrical Simulation and Measurement	Temperature	1502	JJF1309-2011 Calibration Specification of Temperature Indicators and Simulators by Electrical Simulation and Measurement	RTD output ：(-200~+800)℃	RTD output ：(-200~+800)℃	*U=(0.11~0.15)℃*		
136	Nonself-indicating weighing instrument	Mass	1311	JJG14-1997 V.R. of nonself-indicating weighing instrumen	20g～10kg		*U=（1～2）g*		
					10kg～100kg		*U=（2～20）g*		
					100kg～1000kg		*U=20g～0.2kg*		
137	Digital Indicating Weighing Instruments	Mass	1311	JJG539-1997 V.R.of Digital Indicating Weighing Instruments	0.02g～3kg		*U=3mg～0.15g*		
					3kg～30kg		*U=（0.15～3）g*		
					30kg～300kg		*U=（3～20）g*		
					300kg～1500kg		*U=20g～0.35kg*		
					1500kg～3000kg		*U=（0.35～0.80）kg*		
138	Analogue indicating weighing instrument	Mass	1311	JJG13-1997 V.R.of analogue indicating weighing instrument	2g～10kg		*U=（0.5～10）g*		
					10kg～30kg		*U=（10～30）g*		
					30kg～100kg		*U=30g～0.10kg*		
139	Table Balances	Mass	1311	JJG156-2004 V.R. of Table Balances	≤5 kg		*U=0.3d*		
140	Non-automatic balance	mass	1311	JJG1036-2008 V.R. of Electronic Balance	1mg～500mg		*U=（0.06～0.10）mg*		
					500mg～1g		*U=（0.10～0.12）mg*		
					1g～500g		*U=（0.12～0.20）mg*		
					500g～1kg		*U=（0.20～13）mg*		

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140	Non-automatic balance	mass	1311	JJG1036-2008 V.R. of Electronic Balance	1kg～30kg	1kg～30kg	*U=13mg～0.2g*		
				JJG98-2006 V.R. of Mechanical balance	1mg～500mg		*U=（0.02～0.08）mg*		
					500mg～1g		*U=（0.08～0.10）mg*		
					1g～500g		*U=（0.10～2.5）mg*		
					500g～1kg		*U=（2.5～5.0）mg*		
					1kg～30kg		*U=5.0mg～0.3g*		
141	Weights	Mass	1310	JJG99-2006 V.R.of Weights	1mg～500mg		*U=（0.02～0.07）mg*		
					500mg～1g		*U=（0.07～0.08）mg*		
					1g～500g		*U=（0.08～2.4）mg*		
					500g～1kg		*U=（2.4～4.6）mg*		
					1kg～25kg		*U=4.6mg～0.14g*		
142	Moisture Meters	Mass	1310	JJG658-2010 V. R.of Thermogravimetric Moisture Meters	1mg～20kg		*U=4d*		
		Moisture			0%～100%		*Urel=0.05%*		
143	Working Dynamometers	Force	1323	JJG455-2000 V.R. of Working Dynamometer	≤5000N		*Urel=0.3%*		
144	Pendulum Impact Testing Machine	Torque	1323	JJG145-2007 V.R. of Pendulum Impact Testing Machine	≤500J		*Urel=0.15%*		
		Distance between Impact Point and Axis lin			≤1m		*Urel=0.15%*		
145	Cantilever-Beam (Izod -Type)Impact Testing Machine	Torque	1323	JJG608-1989 V.R. of Cantilever-Beam (Izod -Type) Impact Testing Machine	≤100J		*Urel=0.15%*		
		Distance between Impact Point and Axis lin			≤1m		*Urel=0.15%*		

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146	Dynamometer for Measuring Instrument	Force	1318	JJF1134-2005 V.R. of Working Dynamometer	(0.1～20)N	(0.1～20)N	*Urel=0.4%*		
147	Flexure Testing Machine	Force	1326	JJG476-2001 V.R. of Flexure Testing Machine	≤50kN		*Urel=0.3%*		
148	Universal tension and compression testing machine	Force	1326	JJG139-1999 V.R. of universal tension and compression testing machine	≤0.5N～200kN		*Urel=0.3%*	except for proper alignment	
149	Tension compression and universal testing machine for non-metallic	Force	1326	JJG157-2008 V.R. of tension compres sion and universal testing machine for non-metallic	≤0.5N～200kN		*Urel=0.3%*	except for proper alignment	
		Displacement			(0.1～1000)mm/min		*Urel=0.06%*		
		Velocity			(0.1～1000)mm		*Urel=0.10%*		
150	Electronic universal testing machine	Force	1326	JJG475-2008 V.R. of Electronic universal testing machine	≤0.5N～200kN		*Urel=0.3%*	except for proper alignment	
		Displacement			(0～1000)mm		*Urel=0.10%*		
		Velocity			(0.1～1000)mm/min		*Urel=0.06%*		
151	Spring Tension and Compression Testing Machine	Force	1326	JJF1134-2005 C.S.for Working Force Measuring Machine for Special Purposes	≤200kN		*Urel=0.3%*		
152	Push-pull wirel tester	mass（force）	1326	JJF1134-2005 V.R. of Working Dynamometer	（1～200）kg		*Urel=0.3%*		
153	Compressing strength tester	Force	0336	JJG(Light industry)49-2000 Compression strength testerfor Board	（0.5～3000）N		*Urel=0.3%*		

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154	Compression Strength Tester for Corrugated Box	Force	0312	JJG(Light industry)115-2000 Compression Strength Tester for Corrugated Box	（0～50）KN	（0～50）KN	*Urel=0.4%*		
155	Vickers Hardness Tester	Hardness	1326	JJG151-2006 V.R. of Metal Vickers Hardness Testers	(100～1000)HV		*Urel=（1.1～2.0）%*		
156	Metallic Webster Hardness Testing Machine	Hardness	1326	JJG944-2013 V.R. of Metallic Webster Hardness Testing Machine	(1-20)HW		*Urel=0.4 HW*		
157	Micro-hardness meter	Hardness	1326	JJG151-2006 V.R. of Metal Vickers Hardness Testers	(100～1000)HV		*Urel=（1.4～3.5）%*		
158	Rubber thickness testing machine	Length	1303	JJG(Chemical)104-1991 V.R.of rubber thickness testing machine	(0～100)mm		*U=0.01mm*		
159	Shore document	Hardness	1326	JJG304-2003 V.R. of shore document	(10～100)HA		*U=0.4HA*		
		Geometrical Dimension	1314		(0～200)mm		*U＝0.005mm*		
160	rubber document	Length	1314	JJG1039-2008 V.R.of The Shore D Durometer	(0～100)HD		*U=0.4 HD*		
		Force			(0～200)mm		*U=0.004mm*		
161	Brinell Hardness Tester	Hardness	1326	JJG 150-2005 V.R.of Metallic Brinell Hardness Testers	≤125HBW		*Urel=1.3%*		
					（125～225）HBW		*Urel=1.1%*		
					(225～650)HBW		*Urel=1.0%*		
162	Equotip Hardness Tester	Hardness	1326	JJG747-1999 V.R.of Leeb Hardness Tester	(500～800) HLD(G)		*(500～570)HLD: U=3.3 HLD (590～670)HLD: U=3.7 HLD (750～800)HLD: U=4.5 HLD*		

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163	Rockwell hardness testing machine	Hardness	1326	JJG112-2013 V.R.of rockwell hardness testing machine	(75~88)HRA	(75~88)HRA	*U=0.6HRA*		
					(80~100)HRB		*U=0.8HRB*		
					(20~30)HRC		*U=0.6HRC*		
					(30~50)HRC		*U=0.6HRC*		
					(50~70)HRC		*U=0.5HRC*		
164	Superficial Rockwell Hardness Tester	Rockwell Hardness Value	0301	JJG112-2013 V.R.of the Metal Superficial Rockwell Hardness Tester Transmitter	（89～91）HR15N		*U=0.6 HRN*		
					（42～80）HR30N		*U=0.6HRN*		
					（62～70）HR45N		*U=0.7HRN*		
					（87～93）HR15T		*U=0.8HRT*		
					（70～82）HR30T		*U=0.7HRT*		
					（45～72）HR45T		*U=0.6HRT*		
165	Tachometer	Rotation Speed	1324	JJG105-2000 V.R. of Tachometers	(20～30000) r/min		*U=(0.06～15)r/min*		
					(20～30000) r/min		*Urel=0.1%*		
166	Constant Acceleration Centrifugal Test Machines	Rotate speed	0335	JJG972-2002 V.R.of Constant Acceleration Centrifugal Test Machines	(1~99999) r/min		*Urel=0.7%*		
		Error of Indication	1324		(1～99999) m/s2		*Urel=2.7%*		
167	Bourdon tube pressure gauge	Pressure	1320	JJG52-2013 V.R. of Bourdon Tube Pressure Gauge、Pressure-vacuum Gauge and Vacuum Gauge for General Use	(-0.1～+60)Mpa		*Urel=0.5%*		

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168	Bourdon Tube Precision Pressure Gauge and Vacuum Gauge	Pressure	1320	JJG49-2013 V.R.of Bourdon Tube Precision Pressure Gauge and Vacuum Gauge	(-0.1～+60)Mpa	(-0.1～+60)Mpa	*Urel=0.1%*		
169	differential pressure gauge	Pressure	0337	JJG573-2003 Bellows pressure gauge	(-1500～1500)Pa		*Urel=1.0%*		
170	Bellows pressure gauge	Pressure	0337	JJG573-2003 Bellows pressure gauge	（-50～40）kPa		*Urel=1.0%*		
171	Digital Pressure Gauges	Pressure	1320	JJG875-2005 V.R.of Digital Pressure Gauges	(-0.1～+60) Mpa		*Urel= 0.1%*		
172	Pressure controller	Pressure	1320	JJG544-2011 V.R.of Pressure Controller	(-0.1～+60) MPa		*Urel=0.2%*		
173	Pressure Transmitters	Pressure	1320	JJG882-2004 V.R.of the Pressure Transmitter	(-0.1～+60) MPa		*Urel=0.1%*		
174	Calibrating Instrument for Torque Wrenches	Torque	1325	JJG797-2013 V.R. of Calibrating Instrument for Torque Wrenches	(0.04～100) N.m		*Urel=0.4%*		
175	Torque Wrenches	Torque	1325	JJG707-2003 V.R. of Torque Wrenches	(0.001～1000)N.m		*Urel=(1.2～1.6)%*		
176	Power Measurin Machine	Torque	1325	JJG653-2003 V.R of Equipment of Power Measuring	（0.01～500）Nm		*Urel=0.5%*		
		Rotate speed	0335		（100～20000）r/min		*Urel=0.2%*		
177	Crock meter	Speed	0321	JJF(textile industry) 027-2010 V.R. of the Fiber cutter	（0～3000）r/min		*U=1.2r/min*		
		Length			（0～200） mm		*U=0.06mm*		
		Force			（0～250）N		*Urel=1.0%*		
		Length			（0～200）mm		*U=0.34mm*		
178	Tester of Color fastness to Perspiration	Length	0312	JJF (textile industry) 028-2010 V.R. of Tester of Color fastness to Perspiration	（0～200）mm		*U=(0.05～0.10)mm*		

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178	Tester of Color fastness to Perspiration	Force	0312	JJF (textile industry) 028-2010 V.R. of Tester of Color fastness to Perspiration	(0～300)N	(0～300)N	*Urel=0.2%*		
179	Woven Pilling Tester	Length	0321	JJG(textile industry) 040-1990 V.R. of Woven Pilling Tester	¢(0～200)mm		*U=(0.05～0.2)mm*		
		Speed			(0～3000)r/min		*Urel=1.0%*		
		Force			(100～500)Cn		*Urel=0.1%*		
180	Fabrics Abrasion Resistance Apparatus	Rotate Speed	0312	JJG(textile industry) 046-1991 V.R. of Fabrics Abrasion Resistance Apparatus	(0～1000)r/min		*Urel=1.0%*		
		Mass of hammer			（0.5～6200）g		*U＝0.4g*		
181	Plug wire static pull tester	Speed	1326	Q/CTIC104-2008 Calibration Method for Plug class specialized instruments	(0～300)mm/min		*Urel=0.2%*		
		Force			(0.4～9.072) kg		*U=(0.8～1.3)g*		
182	Plug roller tester	Speed	1326	Q/CTIC104-2008 Calibration Method for Plug class specialized instruments	(0～5)r/min		*U=0.4r/min*		
183	Plug wire bending tester	Mass	1326	Q/CTIC104-2008 Calibration Method for Plug class specialized instruments	（10~500）g		*U=(0.13～0.31)g*		
		Angle	336		（0~90）°		*U=0.3°*		
		Speed			(20～1000)r/min		*U=（0.6～2）r/min*		
184	MIT bending tester	Force	1326	JJG(Light industry)59-2000 MIT bending tester	（0～980）N		*U=0.16N*		
		Angle			(0～180)°		*U=11′*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
184	MIT bending tester	Speed	1326	JJG(Light industry)59-2000 MIT bending tester	（0～3000）r/min	（0～3000）r/min	*U=3.4 r/min*		
185	Initial Stickiness tester	Angle	1320	Q/CTI109-2008 Calibration Method for Initial Stickiness tester	(0～90)°		*U=0.4°～1.0°*		
		Length			(0～200)mm		*U=0.006mm*		
186	Screen Tonometer	Force /Length	1320	Q/CTIC112-2008 Calibration Method for Screen Tonometer	(7～60)N/cm		*Urel=1.0%*		
187	Rubber abrasion tester	Mass	0336	Q/CTIC 02015-2010 Calibration Method for Rubber abrasion tester	（0.5～6200）g		*U＝(1.2～0.35)g*		
	Rubber abrasion tester	Speed			(20～1000)r/min		*Urel=1.0%*		
		Length			（0~200）mm		*U＝(0.02～0.10)mm*		
188	Leathe trends waterproof tester	Speed	336	Q/CTIC105-2008 Calibration Method for Leathe trends waterproof tester	50 r/min		*U=0.6 r/min*		
189	Tape friction tester	Mass	0336	Q/CTIC 02012-2010 Calibration Method for Tape friction tester	(0～500)g		*U＝(1.1～2.4)g*		
		Rotate Speed			（0~1000）rpm		*U＝0.8rpm*		
190	Sharp edge tester	Mass	1323	Q/CTIC102-2008 Calibration Method for Sharp edge tester	(453.6～907.2)g		*U=(7～22)g*		
		Length			（1.0～25）mm		*U=0.011mm*		
		Speed			（23±4）mm/s		*U=0.9mm/s*		
191	Film pencil scratch hardness tester	Force	0301	Q/CTIC 02010-2010 Calibration Method for Film pencil scratch hardness tester	（0～6200）g		*U＝(2.2～4.0)g*		
		Angle			（0～90）°		*U＝0.35°*		
192	Cement sand-glue Amalgamator	Speed	1002	JJG（building materials）102-1999 Cement sand-glue amalgamato	(57～295)r/min		*U=0.8r/min*		

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193	Mixer for Cement paste	Speed	1002	JJG(building materials)104-1994 V.R of Mixer for Cement Paste JJG(building materials)	（10~999）r/min	（10~999）r/min	*U=1.0r/min*		
		length			(10～285)mm		*U=(0.02～0.06)mm*		
194	Inspecting Specification for Apparatus of Fluidity of Cement Mortar	Leagth	1002	JJG(building materials) 126-1999 Inspecting Specification for Apparatus of Fluidity of Cement Mortar	（18~285）mm		*U=(0.02～0.04)mm*		
		Mass	1002		(3440~3460)g		*U=0.3 g*		
195	Bursting Strength Tester	Pressure	0336	JJG（Light industry）61-2000 Bursting Strength Tester for Paper and Board	（0~10）Mpa		*Urel=0.13%*		
196	AKRON wearing tester	Force	0336	JJG(chemical industry) 103-1991 AKRON wearing tester	（0.5～200）N		*U＝0.10N*		
		Rotate Speed			（0～1000）r/min		*U＝0.6r/min*		
		Hardness			(0～100)HA		*U＝1.2HA*		
		Length			(0～200)mm		*U＝0.06mm*		
197	Paint film swing hardness tester	Mass	1002	Q/CTIC100-2008 Calibration Method for Paint film swing hardness tester	(120～500）g		*U=0.07g*		
		Time			（250～440）s		*U=1.5s*		
198	Falling-pendulum Apparatus for Tearing Strength of Fabric	Force	0312	JJG(textile industry)060-1995 Falling-pendulum Apparatus for Tearing Strength of Fabric	（0.5～64）N		*U=0.4d*		
199	Paper smoothing tester	Vacuum	0336	JJG(Light industry)62-2000 Smoothing tester Paper for Paper Board	（-0.1～0）Mpa		*Urel=0.15%*		

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200	Adhesive tape retentivity tester	Mass	1310	JJG99-2006 V.R.of Weights	≤1000g	≤1000g	*U=0.6g*		
201	Flow Display	Flow	1316	JJG 1003-2005 V.R. of flow intergration meters	DC（0～5）V，（1～5）V，（0～10）mA （4～20）mA		*Urel=0.2%*		
202	Digital Electrodynamic Vibration Testing System	Accelera	1407	JJG984-1999 V.R.of Digital Electrodynamic Vibration Testing System	(0.1-103)m/s2		*Urel=(2.4～3.0)%*		
		Frequenc			(1～5000)Hz		*Urel=(0.12～0.14)%*		
203	Electrodyna- mic Vibration Generator For Testing	Acceleration	1407	JJG190-1997 V.R.of Electrodyna- mic Vibration Generator for Testing	(0~1000)m/s2		*Urel=(2.4～3.0)%*		
		Frequenc			(1～5000)Hz		*Urel=(0.12～0.14)%*		
204	Mechanical iElectrodyna- mic Vibration Generator For Testing	Displacement	1407	JJG189-1997 V.R.of Mechanical Vibration Generator for Testin	5μm ～100mm		*Urel=4.0%*		
		Acceleration			(0~1000)m/s2		*Urel=(2.4～3.0)%*		
		Frequenc			(1～5000)Hz		*Urel=(0.12～0.14)%*		
205	Simulation Test-bed for Road Transportation	Displacement	1407	JJF12710-2010 Calibrating Specification for Simulation Test-bed for Road Transportation	5μm ～100mm		*Urel=4.2%*		
		Acceleration			(0~1000)m/s2		*Urel=4.5%*		
		Frequenc			(0.5～400)Hz		*Urel=(0.2～0.3)%*		
206	Shock Testing Machine	Acceleration	1407	JJG 541-2005 V.R.of Falling Body Type Shock Testing Machines	Impact Acceleration: 2.5×105 m/s2		*Urel=4.5%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
206	Shock Testing Machine	Pulse Width	1407	JJG 541-2005 V.R.of Falling Body Type Shock Testing Machines	Pulse width (0.5～30)ms	Pulse width (0.5～30)ms	*Urel=3.5%*		
207	Spring impactor	Energy	306	Q/CTIC 02025-2013 Calibration Method of Spring impactor	(0～2) J		*Urel=3.6%*		
208	Temperature /Humidity/Vibration combined Environmental Testing System	Temperature	1504	JJF1270-2010 Calibration Specification For Temperature /Humidity/Vibration combined Environmental Testing System	(-80～+180)℃		*U=0.3 ℃*		
		Humidity			(0～100)%RH		*U=1.5%RH*		
		Acceleration	1407		(0~1000)m/s2		*Urel=(2.4～3.0)%*		
209	pH Meter	Acidity	0243	JJG119-2005 V.R. of Laboratory pH Meter	(0~14) pH		*meter: U=0.001pH*		
							instrument：U=0.006pH		
		Voltage			(-2000~2000)mV		*U=0.2mV*		
210	Electrolytic Conductance Meter	Electrolytic Conductance	0401	JJG376-2007 V.R. of Electrolytic Conductance Meter	meter: (0.05~105) μS		*Urel=0.3 %*		
					instrment:(0~105)μS/cm		*Urel=0.4 %*		
211	Wood Moisture Content Measuring Meters	Wood Moisture Content	0308	JJG986-2004 V.R. of Wood Moisture Content Measuring Meters	(4~36)%		*U=0.4%*		
212	Extrusion Plasto meter	Load	1700	JJG878-1994 V.R.of Extrusion Plastometer	Load：(0~200)g		*U=0.1g*		
					Load：(200~1000)g		*U=0.5g*		
					Load：(1~30)kg		*U=1g*		
		Precision			Extrusion Plasto: (0~25) g/10min		*Urel=4%~7%*		

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213	Volumetric Glass	Capatility	1312	JJG196-2006 V.R.of General Volumetric Glass	(0.1~10)mL	(0.1~10)mL	*U=0.003mL*		
					(10~100)mL		*U=0.01mL*		
					(100~500)mL		*U=0.05mL*		
					(500~2000)mL		*U=0.12mL*		
214	Quantitative AdjustablePipet	Capability	1312	JJG646-2006 V.R. of Quantitative Adjustable	(10~100)μL		*U=0.4μL*		
					(100~1000)μL		*U=1μL*		
					(1000~10000)μL		*U=5μL*		
					(10~50)mL		*U=25μL*		
215	Hydrometers	Consistency	1315	JJG42-2011 V. R. of Working Glass Hydrometers	(0.650~1.400)g/cm3		*U=0.0005 g/cm3*		
216	Beaumemetre	Consistency	1315	JJG42-2011 V. R. of Working Glass Hydrometers	(0~40) Bh		*U=0.04Bh*		
217	Rotational Viscometer	Viscoelasticity	1700	JJG1002-2005 V.R. of Rotational Viscometer	(1~10) mPa·s		*Urel=3%*		
					(20~100) mPa·s		*Urel=2%*		
					(200~1.5×106) mPa·s		*Urel=1%*		
218	Flow Cups Viscose Meter	Viscoelasticity	1700	JJG743-1991 V.R. of Flow Cups Viscose Meter	(2~700) mm2/s		*Urel=2%*		
219	Engler Viscosi-meter	Receive Time	1700	JJG742-1991 V.R.of Engler Viscosimeter	(51±1)s		*U＝0.2s*		
220	Dope Viscosi-meter	Viscose	1700	Q/CTIC007-2008 V.R. of Flow Cups Viscose Meter	(2~600) mm2/s		*Urel=2%*		
221	Cup for Dope Specific Gravity	Capatility	0236	Q/CTIC008-2008 Calibration Method for dope Specific Gravity	(10~100)mL		*U=0.02mL*		
					(100~1000)mL		*U=0.08mL*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
222	Atmosphere Sampler	Flow	0236	JJG956-2013 V.R.of Air Sampler	(0.02~6.0)L/min	(0.02~6.0)L/min	*Urel=2%*		
223	Dust Sampler	Flow	0238	JJG520-2005 V.R. of Dust Sampler	(0.2~150)L/min		*Urel=2%*		
224	Dust Particles Counts	Number of dust	0238	JJF1190-2008 V.R. of Dust Particles Counts	(0.3~0.5)μm		*Urel=15%*		
225	laminar clean bench	cleanliness classes	1404	Q/CTIC 006-2007 Calibration Method for laminar clean bench	(100～10000)level		*Urel =15%*		
226	Visible Range Spectrophotomet-er	Wavelength	1618	JJG178-2007 V.R. of Ultraviolet,Visible,Near-Infrared Spectrophotometer	(360~810)nm		*U=0.3nm*		
		Transmittance			(0~100)%		*Urel =0.6%*		
227	Ultraviolet Visible Range Spectrophot-ometer in Single Beam	Wavelength	1618	JJG178-2007 V.R. of Ultraviolet,Visible,Near-Infrared Spectrophotometer	(195~810)nm		*U=0.3nm*		
		Transmittance			(0~100)%		*Urel =0.6%*		
228	Double Beam UV-VIS Spectrophot-ometers	Wavelength	1618	JJG178-2007 V.R. of Ultraviolet,Visible,Near-Infrared Spectrophotometer	(195~810)nm		*U=0.3nm*		
		Transmittance			(0~100)%		*Urel =0.6%*		
229	Fluore scence Spectrophot-ometer	Detection limi	1618	JJG537-2006 V.R. of Fluorescence Spectrophoto-meter	≤1×10-8 g/mL		*U=0.003μg/mL*		
230	Atomic Fluores-cence Spectro-meter	Detection limit	1618	JJG939-2009 V.R. of Non-disperse Atomic Fluorescence Spectrometer	As,Sb,Hg≤0.4ng		*U=0.1ng*		
231	Atomic Absorption Spectrophot-ometer	Measure Limit	1618	JJG694-2009 V.R. of Atomic Absorption Spectrophotometer	Measuring Copper by Flame Method: ≤0.02 μ g/mL		*U=0.005μg/ml*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
231	Atomic Absorption Spectrophot-ometer	Measure Limit	1618	JJG694-2009 V.R. of Atomic Absorption Spectrophotometer	Measuring Cadmium by G.A.: ≤4 pg	Measuring Cadmium by G.A.: ≤4 pg	*U=0.5pg*		
232	Cold Atomic Absorption Analyzer	Detection Limit	0240	JJG548-2004 V.R.of Mercury Analyzers	Hg ≤1.0ng/mL		*U=0.2ng/mL*		
233	Atomic Fluorometerfor Determination of Mercury	Detection Limit	0240	JJG548-2004 V.R.of Mercury Analyzers	Hg≤0.1 ng/mL		*U=0.03ng/mL*		
234	Carbon- sulfur Analyzer	Concentration	1700	JJG395-1997 V.R.of Carbonsulfur Analyzer	C:(0.001~0.010)%		*U=0.0004%*		
					C:(0.01~0.10)%	C:(0.010~0.0100)%	*U=0.003%*		
					C:(0.1~1.0)%	C:(0.100~1.000)%	*U=0.005%*		
					C:(1~3)%	C:(1.00~3.00)%	*U=0.02%*		
					S:(0.001~0.010)%	S:(0.001~0.010)%	*U=0.0005%*		
					S:(0.01~0.010)%	S:(0.01~0.010)%	*U=0.002%*		
					S:(0.1~0.3)%	S:(0.1~0.3)%	*U=0.004%*		
235	COD Detector	Concentra-tion	0236	JJG975-2002 V.R.for COD Detector	(0~5000)mg/L		*Urel =3%*		
236	Gas Chromato-graph	Sensitivity	1700	JJG700-1999 V.R. of Gas Chromatograph	TCD		*Urel=6%*		
		Detection Limit			FID		*Urel=5%*		
					FPD				
					NPD				
					ECD				
237	Liquid Chromato-graph	Minimum Detectable Concentration	1617	JJG705-2002 V.R. of Liquid Chromatographs	UVD、PDA、FLD 、RID		*Urel=9%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
238	Liquid Chromatography-Mass Spectrometers	Signal-to-noise Ratio	1512	JJF1317-2011 V.R of Calibration Specification for Liquid Chromatography-Mass Spectrometers	≥10：1	≥10：1	*Urel=11%*		
239	Gas chromato-graphmass spectro-meter(GC/MS)	SNR	1511	JJF1164-2006 C.S.of GC/MS	≥10：1		*Urel=5%*		
240	Ion Chromato-graph	Minimum Detectable Concentration	1617	JJG823-1993 V.R.of Ion Chromato-graph	Cl– (0~50)μg/g		*Urel=6%*		
					NO3- (0~50)μg/g				
					Na+ (0~50)μg/g				
					Ca2+ (0~50)μg/g				
241	Emission Spectro-meter	Detection limit	1617	JJG768-2005 V.R.of Emission Spectrometer	ICP：Zn ≤0.01 mg/L		*Urel=6%*		
					Ni ≤0.03 mg/L				
					Mn ≤0.005 mg/L				
					Cr ≤0.02 mg/L				
					Cu ≤0.02 mg/L				
					Ba ≤0.005 mg/L				
					Direct emission spectrometer: C≤0.02mg/L		*Urel=8%*		
					Si≤0.02mg/L				
					Mn≤0.02mg/L				
					Cr≤0.01mg/L				
					Ni≤0.02mg/L				

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241	Emission Spectro-meter	Detection limit	1617	JJG768-2005 V.R.of Emission Spectrometer	V≤ 0.01mg/L	V≤ 0.01mg/L	*Urel=8%*		
242	X-Ray Fluores -cenece Spectrometers	Detection limit	1618	Q/CTIC003-2007 Calibration Method for X-Ray Fluores cenece Spectrometers	(0~1000)mg/kg		*Urel=7%*		
243	Colorimeter and Color Difference Meter	Color Differences	1613	JJG595-2002 V.R. of Colorimeter and Color Difference Meter	Y：（10~96） x，y：（0.1~0.9）		*U(Y)=1.7, U(x),U(y)=0.006,*		
244	Whiteness meter	Whiteness	1613	JJG512-2002 V.R. of Whiteness meter	65~90		*U=1.7*		
245	Hand Saccharimeter (Contentmeter) and Hand Refractometer	Concentra -tion	1603	JJG820-1993 V.R.. of Hand Saccharimeter (Contentmeter) and Hand Refractometer	(0~80)%		*U=0.6d, (d-division value)*		
		Refraction Ratio			1.3330~1.5200		*U=0.0003*		
246	Abbe Refracto-meter	Refraction Ratio	1604	JJG625-2001 V.R. of Abbe Refractometer	1.33~1.68		*U=8×10-5*		
247	Specular Gloss Meter	Gloss	1613	JJG696-2002 V.R.of Specular Gloss Meters and Gloss plates	(0~100)GU		*U=1.4GU*		
248	Turbidi meter	Turbidy	1700	JJG880-2006 V.R.of Turbidimeter	(0~400) NTU		*Urel=4%*		
249	Polari-meter	Polary	1603	JJG536-1998 V.R.of Polarimeter and Sacchari meter	-45°~+45°		*U=0.003°*		
		Sacchari -metry			（-20~+105）° Z		*U=0.01°Z*		
250	Densito- meter	Optical density	1613	JJG920-1996 V.R.of Diffuse Transmission Visual Densitometer	0~4		*U=0.02*		
251	Hazemeter	Haze	0237	JJF1303-2011 V.R of Calibration Specification for Hazemeter	0~35		*U=0.3*		
		Transmissivity			(70~90)%		*U=0.8%*		

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252	Clarity Test Equipment	Light Illumination	1612	JJF1287-2011 V.R of Calibration Specification for Clarity Test Equipment	（0~4000）lx	（0~4000）lx	*Urel=9%*		
253	Standard Light Source Box	Colour temperature	1617	JJG(spinning)055-2012 Standard Light Source Box	(2000~9500)K		*Urel=1.4%*		
		Light Illumination			(0~9000)Lx		*Urel=8%*		
254	Fourier Transform Infrared Spectrometer	Wave Numbers	1601	JJF1319-2011 C.S. of Fourier Transform Infrared Spectrometer	(800~3100)cm-1		*U=0.3 cm-1*		
255	ELISA Analytical Instruments	Wavelength	0711	JJG861-2007 V.R.of ELISA Analytical Instruments	(360~700)nm		*U=1.2nm*		
		Absorbency			(0.000~4.000)		*U=0.006 Absorbency*		
256	Flame Photometer	Detection limit	1618	JJG630-2007 V. R. of Flame Photometer	Na: (0~1)mmol/L		*U=0.001mmol/L*		
					K: (0~0.200)mmol/L		*U=0.0005mmol/L*		
257	Oil Content in Water Analyzer	Concentra-tion	0233	JJG950-2012 V. R. of Oil Content in Water Analyzers	(0~1000)mg/L		*Urel =4%*		
258	Quadrupole Inductively Coupled Plasma Mass Spectrometers	Detection limit	1511	JJF1159-2006 Calibration Specification for Quadrupole Inductively Coupled Plasma Mass Spectrometers	Be≤30 ng/L In≤10 ng/L Bi≤10 ng/L		*Urel =3%*		
259	Instrument for KF Coulometry Titration	Concentration	1700	JJG1044-2008 V. R. of Instrument for KF Coulometry Titration	(0~100)%		*Urel=3%*		
260	Automatic Potentionmetric Titrator	Electric Potential	1700	JJG814-1993 V. R. of Automatic Potentionmetric Titrator	(-2000~2000)mV		*U=0.2mV*		

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261	Water Test Kits	Acidity	1700	JJG715-1991 V.R.of Water Test Kits	（0~14）pH （0~14）pH	*U=0.01 pH*		
		Dissolved Oxygen			（0~15）mg/L	*U=0.2mg/L*		
		Electrolytic Conduc -tance			(0.0~1999)μS	*Urel =0.4%*		
		Turbidy			(0~400)NTU	*Urel =3.7%*		
		Potential			(-2000~2000)mV	*U=0.2mV*		
262	Static Light Scattering Particle Size Analyzers	Grain diameter	131101	JJF1211-2008 C.S.for Static Light Scattering Particle Size Analyzers	(2~5)μm	*Urel=5%*		
					(5~20)μm	*Urel=4%*		
					(20~125)μm	*Urel=3%*		
263	Differential Scanning Calorimeters	Temperature	0203	JJG 936-2012 V.R of Differential Scanning Calorimeters	(120~450)℃	*In：U=0.4℃* *Sn：U=0.3℃* *Pb：U=0.6℃* *Zn：U=0.7℃*		
		Calories			(23~108)J/g	*In：U=0.5J/g* *Sn：U=0.4J/g* *Pb：U=0.5J/g* *Zn：U=1.4J/g*		
264	Total Organic Carbon Analyzer	Indication Error	0236	JJG821-2005 V.R of Total Organic Carbon Analyzer	（0~1000）mg/L	*Urel=3%*		
265	CO、CO2 Infrared Gas Aanlyzer	Concentra-tio n	0236	JJG635-2011 V. R. of Carbon Monooxide and Carbon Dioxide Infrared Gas Aanlyzer	CO:(0~500)μmol/mol CO2:(0~5000)μmol/mol	*Urel =3%*		
266	Alarmer Detectors of Combustible Gas	Indication Error	0236	JJG693-2011 V.R of Alarmer Detectors of Combustible Gas	(0~100)%LEL	*Urel=3%*		
267	Carbon Monoxide Detector	Indication Error	0236	JJG915-2008 V.R of Carbon Monoxide Detector	(0~1000)μmol/mol	*Urel=3%*		
268	Sulfur Dioxide Gas Detectors	Indication Error	0236	JJG551-2003V.R of Sulfur Dioxide Gas Detectors	(0~100)μmol/mol	*Urel=3%*		
269	Sulfur Hydrogen Gas Detectors	Indication Error	0236	JJG551-2003V.R of Sulfur Hydrogen Gas Detectors	(0~100)μmol/mol	*Urel=3%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
270	Luminance Meter	Luminance	1611	JJG211-2005 V. R. of Luminance Meter	(0.06～1500)cd/m2	(0.06～1500)cd/m2	*Urel=3%*		
271	Colour Luminance Meter	Luminance	1611	JJG211-2005 V. R. of Luminance Meter	(10～2000)cd/m2		*Urel=3%*		
		Chroma			x(0.1586～0.7310) y(0.0199～0.4688)		*Ux=0.009, Uy=0.008*		
272	Illumino-meter	Illumination	1612	JJG245-2005 Illuminometer	(1～5)lx		*Urel=1.4%*		
					(5～50)lx		*Urel=1.2%*		
					(50～100)lx		*Urel=1.1%*		
					(100～500)lx		*Urel=1%*		
					(500～3000)lx		*Urel=0.9%*		
273	Optical Fiber Power meter	Power	1622	JJG965-2001 V. R. of Optical Power Meter in Telecommunication JJG813-1993 V. R. of Optical Power Meter	(27～10)dBm		*U=0.2dB*		
					(10～0)dBm		*U=0.06dB*		
					(0～-20)dBm		*U=0.08dB*		
					(-20～-40)dBm		*U=0.13dB*		
					(-40～-60)dBm		*U=0.3dB*		
					(-60～-80)dBm		*U=0.5dB*		
274	Ultraviolet Integrator	Integrator	1606	JJG879-2002 V. R. of Ultraviolet Irradiance Meters	(0.1～2000)mJ/cm2		*Urel =16%*		
275	Ultraviolet Irradiance Meter	Irradiance	1606	JJG879-2002 V. R. of Ultraviolet Irradiance Meters	(0.001～1.2)mW/cm2		*Urel=14%*		
276	Bias Current Source	DC Current	0406	JJG(Navigation)38-1987 V.R. for Standard DC Current Source	±(1mA～20A)		*Urel=0.2%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
277	DC Power Supply	DCV	0409	JJG(Navigation)6-1999 V.R. for DC Power Supply JJG(Aerospace)38-1987 V.R. for Direct Standard Source	0.01V～0.1V	0.01V～0.1V	*Urel=0.01%*		
					0.1V～1V		*Urel=0.018%*		
					1V～10V		*Urel=0.15%*		
					10V～100V		*Urel=0.18%*		
					100V～1000V		*Urel=0.019%*		
		DCI			0.001A～0.01A		*Urel=0.36%*		
					0.01A～0.1A		*Urel=0.16%*		
					0.1A～1A		*Urel=0.26%*		
					1A～3A		*Urel=0.26%*		
					3A～10A		*Urel=0.40%*		
					10A～30A		*Urel=0.14%*		
					30A～300A		*Urel=0.58%*		
		Ripple Voltage			(0～100)mV	20Hz～2MHz	*U=0.20%+ 0.004 mV*		
278	AC Power Supply (Frequency Conversion Power Supply)	ACV	0409	JJG410-1994 Precise AC Voltage Calibration Source JJG(Aerospace)51-1999 V.R. for AC standard Current source	10mV～10V	40Hz～1kHz	*Urel=0.2%*		
					10V～100V		*Urel=0.3%*		
					100V～1000V		*Urel=0.2%*		
		ACI			1mA～0.1A		*Urel=0.2%*		
					0.1A～10A		*Urel=0.3%*		
					0.1W～10W		*Urel=0.3%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
278	AC Power Supply (Frequency Conversion Power Supply)	Power	0409	JJG410-1994 Precise AC Voltage Calibration Source JJG(Aerospace)51-1999 V.R. for AC standard Current source	10W～10kW	40Hz～1kHz	*Urel=0.4%*		
		Frequency			40Hz～1kHz		*Urel=0.11%*		
279	Digital Calibration Device for Ampere-meters,Volt-meters and Ohmmeters	DCV	0409	JJG(Electronic) 02003-1988 V. R. of Digital Calibration Device for Amperemeters,Voltmeters and Ohmmeters	10mV～100mV		*Urel=0.06%*		
					100mV～1V		*Urel= 0.012%*		
					1V～10V		*Urel= 0.014%*		
					10V～100V		*Urel= 0.016%*		
					100V～1000V		*Urel= 0.018%*		
		ACV			1mV～100mV	40Hz～1kHz	*Urel=0.072%*		
					100mV～1V		*Urel=0.074%*		
					1V～10V		*Urel=0.080%*		
					10V～100V		*Urel= 0.091%*		
					100V～1000V		*Urel=0.085%*		
		DCI	0409		0.1μA～10μA		*Urel=0.12%*		
					10μA～100μA		*Urel= 0.013%*		
					100μA～1000μA		*Urel=0.015%*		
					1mA～10mA		*Urel=0.015%*		
					10mA～100mA		*Urel=0.016%*		
					100mA～1000mA		*Urel=0.021%*		
					1A～10A		*Urel=0.053%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
279	Digital Calibration Device for Ampere-meters,Volt-meters and Ohmmeters	ACI	0409	JJG(Electronic) 02003-1988 V. R. of Digital Calibration Device for Amperemeters,Voltmeters and Ohmmeters	10μA～100μA	45Hz～100Hz	*Urel=0.11%*		
					100μA～1000μA		*Urel=0.10%*		
					1mA～10mA		*Urel=0.10%*		
					10mA～100mA		*Urel=0.10%*		
					100mA～1000mA		*Urel=0.10%*		
					1A～10A		*Urel=0.15%*		
		Resistance			0Ω～10Ω		*Urel= 0.003%*		
					10Ω～100Ω		*Urel= 0.0020%*		
					100Ω～1000Ω		*Urel= 0.0013%*		
					1kΩ～10kΩ		*Urel=0.0013%*		
					10kΩ～100kΩ		*Urel= 0.0013%*		
					100kΩ～1000kΩ		*Urel= 0.0020%*		
					1MΩ～10MΩ		*Urel=0.007%*		
					10MΩ～100MΩ		*Urel=0.06%*		
280	Multifunc- tion Calibrator	DCV	0409	JJG445-1986 V.R. of DC Standard Voltage Source	1mV～10mV		*Urel=0.0048%*		
					10mV～100mV		*Urel=0.0046%*		
					100mV～1V		*Urel=0.0015%*		
					1V～10V		*Urel=0.0012%*		
					10V～100V		*Urel=0.0016%*		
					100V～1000V		*Urel=0.0020%*		

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280	Multifunc- tion Calibrator	ACV	0409	JJG410-1994 V.R.of Precise AC Voltage Calibration Source	1mV～10mV	40Hz～1kHz	*Urel=0.17%～0.06%*		
						1kHz～20kHz	*Urel=0.18%～0.06%*		
					10mV～100mV	40Hz～1kHz	*Urel=0.036%～0.018%*		
						1kHz～20kHz	*Urel=0.042%～0.022%*		
					100mV～1V	40Hz～1kHz	*Urel=0.034%～0.012%*		
						1kHz～20kHz	*Urel=0.042%～0.022%*		
					1V～10V	40Hz～1kHz	*Urel=0.034%～0.016%*		
						1kHz～20kHz	*Urel=0.044%～0.026%*		
					10V～100V	40Hz～1kHz	*Urel=0.029%～0.027%*		
						1KHz～20kHz	*Urel=0.08%～0.06%*		
					100V～1000V	40Hz～1kHz	*Urel=0.09%～0.08%*		
						1KHz～20kHz	*Urel=0.098%～0.078%*		
		DCI		JJG38-1987 V.R. of DC Standard Source	0.1μA～10μA		*Urel=0.031%～0.012%*		
					10μA～100μA		*Urel=0.016%～0.009%*		
					100μA～1000μA		*Urel=0.0092%～0.0044%*		
					1mA～10mA		*Urel=0.0096%～0.0045%*		
					10mA～100mA		*Urel=0.015%～0.006%*		
					100mA～1000mA		*Urel=0.031%～0.007%*		
					1A～10A		*Urel=0.068%～0.022%*		

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280	Multifunc- tion Calibrator	ACI	0409	JJG(Aerospace) 51-1999 V.R of AC standard current Source	10μA～100μA	45Hz～100Hz	*Urel=0.068%～0.023%*		
						100Hz～5KHz	*Urel=0.068%～0.024%*		
					100μA～1mA	45Hz～100Hz	*Urel=0.45%～0.25%*		
						100Hz～5kHz	*Urel=0.35%～0.13%*		
					1mA～10mA	45Hz～100Hz	*Urel=0.30%～0.08%*		
						100Hz～5kHz	*Urel=0.31%～0.11%*		
					10mA～100mA	45Hz～100Hz	*Urel=0.33%～0.13%*		
						100Hz～5kHz	*Urel=0.30%～0.08%*		
					100mA～1A	45Hz～100Hz	*Urel=0.35%～0.16%*		
						100Hz～5kHz	*Urel=0.068%～0.032%*		
					1A～10A	45Hz～100Hz	*Urel=0.068%～0.033%*		
						100Hz～5kHz	*Urel=0.38%～0.17%*		
		Resistance		JJG166-1993 V.R. of DC Resistor	0Ω～10Ω		*Urel=0.012%～0.005%*		
					10Ω～100Ω		*Urel=0.015%～0.005%*		
					100Ω～1kΩ		*Urel=0.0028%～0.0022%*		
					1kΩ～10kΩ		*Urel=0.0028%～0.0022%*		
					10kΩ～100kΩ		*Urel=0.0028%～0.0022%*		
					100kΩ～1MΩ		*Urel=0.0050%～0.0028%*		
					1MΩ～10MΩ		*Urel=0.022%～0.009%*		
					10MΩ～100MΩ		*Urel=0.10%～0.08%*		
					100MΩ～1000MΩ		*Urel=0.015%～0.004%*		

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281	Digital Multimeter	DCV	0410	JJG315-1983 V.R.of DC Digital Voltmeter	(1～330)mV	(1～330)mV	*U= 0.0020%+1μV*		
					0.33V～3.29999V		*U= 0.0011%+2μV*		
					3.3V～32.9999V		*U= 0.0012%+15μV*		
					33V～332.9999V		*U= 0.0019%+1.5mV*		
					330V～1020V		*U= 0.0018%+1.5mV*		
		ACV	0410	JJG(Aerospace) 34-1999 V.R.of AC Digital Voltmeter	1mV～32.9993mV	(10～45)Hz	*U=0.08%+6uV*		
						45Hz～10kHz	*U=0.15%+6uV*		
						(10～20)kHz	*U=0.2%+6uV*		
						(20～50)kHz	*U=0.1%+6uV*		
						(50～100)kHz	*U=0.35%+12uV*		
						(100～500)kHz	*U=0.8%+50uV*		
					33mV～329.999mV	(10～45)Hz	*U=0.03%+8uV*		
						45Hz～10kHz	*U=0.013%+8uV*		
						(10～20)kHz	*U=0.015%+8uV*		
						(20～50)kHz	*U=0.035%+8uV*		
						(50～100)kHz	*U=0.08%+32uV*		
						(100～500)kHz	*U=0.2%+70uV*		
					330mV～3.29999V	(10～45)Hz	*U=0.03%+50uV*		
						45Hz～10kHz	*U=0.012%+25uV*		
						(10～20)kHz	*U=0.019%+50uV*		
						(20～50)kHz	*U=0.03%+50uV*		
						(50～100)kHz	*U=0.07%+13mV*		

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281	Digital Multimeter	ACV	0410	JJG(Aerospace) 34-1999 V.R.of AC Digital Voltmeter	330mV～3.29999V	(100～500)kHz	*U=0.24%+0.60mV*		
281	Digital Multimeter	ACV	0410	JJG(Aerospace) 34-1999 V.R.of AC Digital Voltmeter	3.3V～32.9999V	(10～45)Hz	*U=0.03%+0.65mV*		
						45Hz～10kHz	*U=0.012%+25uV*		
						(10～20)kHz	*U=0.024%+0.60mV*		
						(20～50)kHz	*U=0.035%+0.60mV*		
						(50～100)kHz	*U=0.09%+1.6mV*		
					33V～329.999V	45Hz～1kHz	*U=0.019%+2mV*		
						(1～10)kHz	*U=0.02%+6mV*		
						(10～20)kHz	*U=0.025%+6mV*		
						(20～50)kHz	*U=0.03%+6mV*		
						(50～100)kHz	*U=0.2%+50mV*		
					330V～1020V	45Hz～1kHz	*U=0.03%+0.65mV*		
						(1～5)kHz	*U=0.025%+10mV*		
						(5～10)kHz	*U=0.03%+10mV*		
		DCI	0410	JJG598-1989 V.R.of DC Digital Amperemete	(1～329.999) μA		*U=0.015%+0.02uA*		
					330 μA～3.29999mA		*U=0.01%+0.03uA*		
					3.3mA～32.9999mA		*U=0.01%+0.2uA*		
					33mA～329.999mA		*U=0.01%+2uA*		
					330mA～1.09999A		*U=0.02%+40uA*		
					1.1A～2.99999A		*U=0.038%+40uA*		

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281	Digital Multimeter	DCI	0410	JJG598-1989 V.R.of DC Digital Amperemete	3A～10.99999A	3A～10.99999A	*U=0.05%+0.33mA*		
					11A～20.5A		*U=0.1%+0.75mA*		
281	Digital Multimeter	ACI	0410	JJG(Aerospace) 35-1999 V.R.of AC Digital Ampere meter	(29～329.99)μA	(10～20)Hz	*U=0.2%+1uA*		
						(20～45)Hz	*U=0.15%+0.1uA*		
						45Hz～1kHz	*U=0.13%+0.1uA*		
						(1～5)kHz	*U=0.3%+0.15uA*		
						(5～10)kHz	*U=0.8%+0.2uA*		
						(10～30)kHz	*U=0.8%+0.2uA*		
					0.33mA～3.2999mA	(10～20)Hz	*U=0.2%+15uA*		
						(20～45)Hz	*U=0.13%+0.1uA*		
						45Hz～1kHz	*U=0.13%+0.1uA*		
						(1～5)kHz	*U=0.2%+0.2uA*		
						(5～10)kHz	*U=0.5%+0.3uA*		
						(10～30)kHz	*U=1.0%+0.6uA*		
					3.3mA～32.999mA	(10～20)Hz	*U=0.18%+2uA*		
					3.3mA～32.999mA	(20～45)Hz	*U=0.09%+2uA*		
						45Hz～1kHz	*U=0.4%+2uA*		
						(1～5)kHz	*U=0.08%+2uA*		
						(5～10)kHz	*U=0.2%+3uA*		
						(10～30)kHz	*U=0.4%+4uA*		
					33mA～329.99mA	(10～20)Hz	*U=0.18%+20uA*		
						(20～45)Hz	*U=0.09%+20uA*		
						45Hz～1kHz	*U=0.4%+20uA*		
						(1～5)kHz	*U=0.10%+50uA*		
						(5～10)kHz	*U=0.2%+0.10mA*		

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281	Digital Multimeter	ACI	0410	JJG(Aerospace) 35-1999 V.R.of AC Digital Ampere meter	33mA～329.99mA	(10～30)kHz	*U=0.4%+0.20mA*		
					0.33A～1.09999A	(10～45)Hz	*U=0.18%+0.10mA*		
						45Hz～1kHz	*U=0.05%+0.10mA*		
						(1～5)kHz	*U=0.6%+0.10mA*		
						(5～10)kHz	*U=2.5%+5.0mA*		
					1.1A～2.99999A	(10～45)Hz	*U=0.18%+0.10mA*		
						45Hz～1kHz	*U=0.05%+0.10mA*		
						(1～5)kHz	*U=0.6%+0.10mA*		
						(5～10)kHz	*U=2.5%+5.0mA*		
					3A～10.9999A	(10～45)Hz	*U=0.06%+2.0mA*		
						45Hz～1kHz	*U=0.10%+0.20mA*		
						(1～5)kHz	*U=3.0%+2.0mA*		
					11A～20.5A	(45～100)Hz	*U=0.12%+5.0mA*		
						100Hz～1kHz	*U=0.15%+5.0mA*		
						(1～5)kHz	*U=3.0%+5.0mA*		
281	Digital Multimeter	Resistance	0410	JJG724-1991 V.R. for DC Digital Ohmmeter	0.1Ω～329.9999Ω		*U=0.0028%+0.002Ω*		
					330Ω～1.099999kΩ		*U=0.0028%+0.02Ω*		
					33kΩ～109.9999kΩ		*U=0.0028%+1Ω*		
					110kΩ～329.9999kΩ		*U=0.0032%+10Ω*		
					330kΩ～1.099999MΩ		*U=0.0032%+10Ω*		
					1.1MΩ～3.299999MΩ		*U=0.006%+0.15kΩ*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
281	Digital Multimeter	Resistance	0410	JJG724-1991 V.R. for DC Digital Ohmmeter	3.3MΩ～10.99999MΩ	3.3MΩ～10.99999MΩ	*U=0.013%+0.25kΩ*		
					11MΩ～32.99999MΩ		*U=0.025%+2.5kΩ*		
					33MΩ～109.9999MΩ		*U=0.05%+3.0kΩ*		
					110MΩ～329.9999MΩ		*U=0.3%+0.10MΩ*		
					330MΩ～1100MΩ		*U=1.5%+0.50MΩ*		
282	Data Acquisition System	DCV	0410	JJG315-1983 V.R.of DC Digital Voltmeter	1mV～330mV		*Urel=0.0040%*		
					0.33V～3.3V		*Urel=0.0017%*		
					3.3V～33V		*Urel=0.0016%*		
					33V～330V		*Urel=0.0023%*		
					330V～1000V		*Urel=0.0032%*		
		ACV		JJG(Aerospace)34-1999 V.R. for AC digital Voltmeter	1mV～33mV	45Hz～10kHz	*Urel=0.080%*		
					33mV～330mV	45Hz～10kHz	*Urel=0.024%*		
					0.33V～3.3V	45Hz～10kHz	*Urel=0.017%*		
					3.3V～33V	45Hz～10kHz	*Urel=0.020%*		
					33V～330V	45Hz～10kHz	*Urel=0.024%*		
					330V～1000V	45Hz～10kHz	*Urel=0.036%*		
		DCI		JJG598-1989 V.R.of DC digital Currentmeter	1μA～330μA		*Urel=0.040%*		
					0.33mA～3.3mA		*Urel=0.015%*		
					3.3mA～33mA		*Urel=0.014%*		

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282	Data Acquisition System	DCI	0410	JJG598-1989 V.R.of DC digital Currentmeter	33mA～330mA	33mA～330mA	*Urel=0.014%*		
					0.33A～3A		*Urel=0.028%*		
					3A～11A		*Urel=0.062%*		
		ACI		JJG(Aerospace)35-1999 V.R for AC digital Current meter	29μA～330μA	45Hz～1kHz	*Urel=0.13%*		
					0.33mA～3.3mA		*Urel=0.13%*		
					3.3mA～33mA		*Urel=0.069%*		
					33mA～330mA		*Urel=0.069%*		
					0.33A～3A	45Hz～1kHz	*Urel=0.081%*		
					3A～11A		*Urel=0.092%*		
		Resistance		JJG724-1991 V.R. of DC Digital Ohmmeter	0Ω～110Ω		*Urel=0.0051%*		
					110Ω～330Ω		*Urel=0.0053%*		
					330Ω～1.1kΩ		*Urel=0.0035%*		
					1.1kΩ～3.3kΩ		*Urel=0.0053%*		
					3.3kΩ～11kΩ		*Urel=0.0035%*		
					11kΩ～33kΩ		*Urel=0.0054%*		
					33kΩ～110kΩ		*Urel=0.0035%*		
					110kΩ～330kΩ		*Urel=0.0059%*		
					330kΩ～1.1MΩ		*Urel=0.004%*		
					1.1MΩ～3.3MΩ		*Urel=0.010%*		
					3.3MΩ～11MΩ		*Urel=0.016%*		
					11MΩ～33MΩ		*Urel=0.055%*		
					33MΩ～110MΩ		*Urel=0.068%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
282	Data Acquisition System	Temperature	0410	JJG617-1996 V.R. of Digital Temperature Indicators and Controllers	(-200～-100)℃ (K 型)	(-200～-100)℃ (K 型)	*U=0.28 ℃*		
					(-100～-25)℃(K 型)		*U=0.15 ℃*		
					(-25～120)℃(K 型)		*U=0.12 ℃*		
					(120～1000)℃(K 型)		*U=0.22 ℃*		
					(1000～1300)℃(K 型)		*U=0.35 ℃*		
283	Amperemeter,voltm-eter, ohmmeter / (multi meter)	DCV	0410	JJG124-2005 V.R. of amperemeter, voltmeter, ohmmeter , multimeter	1mV～0.1V		*Urel=0.8%～0.2%*		
					0.1V～0.25V		*Urel=1.6%～0.3%*		
					0.25V～2.5V		*Urel=1.6%～0.3%*		
					2.5V～10V		*Urel=0.8%～0.2%*		
					10V～50V		*Urel=3.3%～0.3%*		
					50V～250V		*Urel=3.3%～0.3%*		
					250V ～1000V		*Urel=0.8%～0.2%*		
		ACV			1mV～10V	(45Hz～1kHz)	*Urel=1.6%～0.3%*		
					10V～50V		*Urel=3.3%～0.3%*		
					50V～250V		*Urel=1.6%～0.3%*		
					250V～1000V		*Urel=1.6%～0.3%*		
		DCI			1μA～50μA		*Urel=1.6%～0.3%*		
					0.05mA～2.5mA		*Urel=1.6%～0.3%*		
					2.5mA～25mA		*Urel=1.6%～0.3%*		
					0.025A～0.25A		*Urel=1.6%～0.3%*		
					0.25A～10A		*Urel=1.6%～0.3%*		

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283	Amperemeter,volt m-eter, ohmmeter / (multi meter)	ACI	0410	JJG124-2005 V.R. of amperemeter, voltmeter, ohmmeter , multimeter	1μA～50μA	(45Hz～1kHz)	*Urel=1.6%～0.3%*		
					0.05mA～2.5mA		*Urel=1.6%～0.3%*		
					2.5mA～25mA		*Urel=1.6%～0.3%*		
					0.025A～0.25A		*Urel=1.6%～0.3%*		
					0.25A～10A		*Urel=1.6%～0.3%*		
		Resistance			1mΩ～110MΩ		*Urel=0.8%*		
284	Clamp Ammeters	Current	0410	JJF1075-2001 C.S. for Clamp Ammeters	16.5mA～164.995mA	DC～60Hz	*Urel=0.6%*		
					165mA～1.64995A		*Urel=0.1%*		
					1.65A～16.4995A				
					16.5A～165A				
					165A～1000A		*Urel=0.2%*		
285	AC Digital Powerme-ter	ACV	0410	JJG780-1992 V.R. of AC Digital Powermeter	(0.33～1000)V	(45～65)Hz	*Urel=0.09%*		
					(90～329.99)mA				
					(0.33～1000)V		*Urel=0.12%*		
					(0.33～0.8999)A				
					(0.33～1000)V		*Urel=0.10%*		
					(0.9～2.1999)A				
					(0.33～1000)V		*Urel=0.13%*		
					(2.2～2.4999)A				
					(0.33～1000)V		*Urel=0.11%*		

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285	AC Digital Powerme-ter	ACV	0410	JJG780-1992 V.R. of AC Digital Powermeter	(4.5～20.5)A	(45～65)Hz	*Urel=0.11%*		
286	Electrical Measure-ment Instru-ment	ACV	1700	JJG780-1992 V.R. for AC Digital Powermeter	(3.3～33)mV	(10～45)Hz	*U=0.12%+9μV*		
						45Hz～10kHz	*U=0.023%+9μV*		
						(10k～20k)Hz	*U=0.03%+9μV*		
						(20k～50k)Hz	*U=0.15%+9μV*		
						(50k～100k)Hz	*U=0.53%+18μV*		
						(100k～500k)Hz	*U=1.2%+75μV*		
					(33～330)mV	(10～45)Hz	*U=0.045%+12μV*		
						45Hz～10kHz	*U=0.02%+12μV*		
						(10k～20k)Hz	*U=0.023%+12μV*		
						(20k～50k)Hz	*U=0.053%+12μV*		
						(50k～100k)Hz	*U=0.12%+48μV*		
						(100k～500k)Hz	*U=0.3%+0.11mV*		
					(0.33～3.3)V	(10～45)Hz	*U=0.045%+75μV*		
						45Hz～10kHz	*U=0.017%+30μV*		
						(10k～20k)Hz	*U=0.029%+75μV*		
					(0.33～3.3)V	(20k～50k)Hz	*U=0.045%+75μV*		
						(50k～100k)Hz	*U=0.11%+0.19mV*		
						(100k～500k)Hz	*U=0.36%+0.9mV*		
					(3.3～33)V	(10～45)Hz	*U=0.045%+0.98mV*		
						45Hz～10kHz	*U=0.017%+0.3mV*		

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286	Electrical Measure-ment Instru-ment	ACV	1700	JJG780-1992 V.R. for AC Digital Powermeter	(3.3～33)V	(10k～20k)Hz	*U=0.036%+0.98mV*		
						(20k～50k)Hz	*U=0.053%+0.98mV*		
						(50k～100k)Hz	*U=0.14%+1.6mV*		
					(33～330)V	(10～45)Hz	*U=0.029%+3mV*		
						45Hz～10kHz	*U=0.03%+9mV*		
						(10k～20k)Hz	*U=0.038%+9mV*		
						(20k～50k)Hz	*U=0.045%+9mV*		
						(50k～100k)Hz	*U=0.3%+75mV*		
					(330～1000)V	(10～45)Hz	*U=0.045%+15mV*		
						45Hz～10kHz	*U=0.038%+15mV*		
						(10k～20k)Hz	*U=0.045%+15mV*		
286	Electrical Measurem-ent Instrument	ACI	1700	JJG780-1992 V.R. for AC Digital Powermeter	(29～330) μA	(10～20)Hz	*U=0.3%+0.15μA*		
						(20～45)Hz	*U=0.23%+0.15μA*		
						45Hz～1kHz	*U=0.19%+0.15μA*		
					(29～330) μA	1kHz～5kHz	*U=0.45%+0.23μA*		
						5kHz～10kHz	*U=0.12%+0.3μA*		
						10kHz～30kHz	*U=0.12%+0.3μA*		
					(0.33～3.3)mA	(10～20)Hz	*U=0.3%+0.23μA*		
						(20～45)Hz	*U=0.19%+0.15μA*		
						45Hz～1kHz	*U=0.15%+0.15μA*		
						1kHz～5kHz	*U=0.3%+0.3μA*		
						5kHz～10kHz	*U=0.75%+0.36μA*		

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286	Electrical Measurem-ent Instrument	ACI	1700	JJG780-1992 V.R. for AC Digital Powermeter	(0.33～3.3)mA	10kHz～30kHz	*U=1.5%+0.9μA*		
					(3.3～33)mA	(10～20)Hz	*U=0.27%+3μA*		
						(20～45)Hz	*U=0.14%+3μA*		
						45Hz～1kHz	*U=0.06%+3μA*		
						1kHz～5kHz	*U=0.12%+3μA*		
						5kHz～10kHz	*U=0.3%+3.6μA*		
						10kHz～30kHz	*U=0.6%+6μA*		
					(33～330)mA	(10～20)Hz	*U=0.27%+30μA*		
						(20～45)Hz	*U=0.14%+30μA*		
						45Hz～1kHz	*U=0.06%+30μA*		
						1kHz～5kHz	*U=0.15%+75μA*		
		ACI	1700		(33～330)mA	5kHz～10kHz	*U=0.3%+0.15mA*		
						10kHz～30kHz	*U=0.6%+0.3mA*		
					(0.33～1.1)A	(10～45)Hz	*U=0.27%+0.15mA*		
						45Hz～1kHz	*U=0.075%+0.15mA*		
						1kHz～5kHz	*U=0.9%+0.15mA*		
						5kHz～10kHz	*U=3.8%+7.5mA*		
					(1.1～3.3)A	(10～45)Hz	*U=0.27%+0.10mA*		
						45Hz～1kHz	*U=0.075%+0.15mA*		
						1kHz～5kHz	*U=0.9%+0.15mA*		
						5kHz～10kHz	*U=3.8%+7.5mA*		
					(3.3～11)A	(10～45)Hz	*U=0.09%+3mA*		
						45Hz～1kHz	*U=0.15%+3mA*		
						1kHz～5kHz	*U=4.5%+3mA*		
					(11～20)A	45Hz～100Hz	*U=0.18%Ix+7.5mA*		

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286	Electrical Measurem-ent Instrument	ACI	1700	JJG780-1992 V.R. for AC Digital Powermeter	(11～20)A	100Hz～1kHz	*U=0.23%Ix+7.5mA*		
						1kHz～5kHz	*U=4.5%Ix+7.5mA*		
286	Electrical Measure-ment Instrument	ACW	1700	JJG780-1992 V.R. for AC Digital Powermeter	(10～99)mW	(20～45)Hz	*U=0.25%+0.05mW*		
						45Hz～1kHz	*U=0.18%+0.05mW*		
						1kHz～5kHz	*U=0.5%+0.06mW*		
						5kHz～10kHz	*U=1.2%+0.10mW*		
					(99～990)mW	(20～45)Hz	*U=0.19%+0.05mW*		
						45Hz～1kHz	*U=0.16%+0.08mW*		
						1kHz～5kHz	*U=0.3%+0.10mW*		
						5kHz～10kHz	*U=0.7%+0.15mW*		
					(0.99～9.9)W	(20～45)Hz	*U=0.19%+0.5mW*		
						45Hz～1kHz	*U=0.15%+0.5mW*		
						1kHz～5kHz	*U=0.12%+0.5mW*		
						5kHz～10kHz	*U=0.3%+0.8mW*		
					(9.9～99)W	(20～45)Hz	*U=0.14%+5mW*		
						45Hz～1kHz	*U=0.15%+5mW*		
						1kHz～5kHz	*U=0.15%+12mW*		
						5kHz～10kHz	*U=0.3%+60mW*		
					(99～330)W	(10～45)Hz	*U=0.27%+60mW*		
						45Hz～1kHz	*U=0.07%+60mW*		
						1kHz～5kHz	*U=0.9%+60mW*		
						5kHz～10kHz	*U=3.5%+60mW*		
					(330～990)W	(10～45)Hz	*U=0.27%+60mW*		
						45Hz～1kHz	*U=0.07%+60mW*		

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286	Electrical Measure-ment Instrument	ACW	1700	JJG780-1992 V.R. for AC Digital Powermeter	(330～990)W	1kHz～5kHz	*U=0.9%+60mW*		
						5kHz～10kHz	*U=7.5%+60mW*		
					(0.99～3.3)kW	(10～45)Hz	*U=0.09%+1.2W*		
						45Hz～1kHz	*U=0.15%+0.12W*		
						1kHz～5kHz	*U=4.5%+0.6W*		
					(3.3～20)kW	45Hz～100Hz	*U=0.2%+3W*		
						100Hz～1kHz	*U=0.13%+3W*		
						1kHz～5kHz	*U=4.5%+3W*		
		Factor	1700		cosΦ：0～1	(40Hz～10kHz)	*U=0.3%+0.0003*		
		Frequency	1700		40Hz～10kHz		*Urel=0.06%*		
287	Electronic Load	Voltage	0410	JJF(Electronic)30101-2007 C.S. for DC Electronic Load JJG598-1989 V.R. for DC Digital Amperemeter	(1～1000)V		*Urel=0.0045%*		
		Current			(0.1～1)A		*U=0.06%+0.24mA*		
					(1～10)A		*U=0.12%+0.8mA*		
					(10～30)A		*U=0.15%+0.9mA*		
					(30～120)A		*U=0.50%+2.2mA*		
288	50Hz Single-phase Phasem-eter	Phase Angle	0410	JJG440-2008 V.R.of 50Hz Single-phase Phasemeter	-180° ～0°		*Urel=0.18%*		
					0° ～180°				
289	Frequency Meter	Frequency	0412	JJG603-2006 V.R.of Frequency Meter used Indicator	10 Hz～500kHz		*Urel=0.003%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
290	Winding Tempera-ture Measure-ment Instru-ment	DC Resistance	1700	JJG837-2003 V.R. for DC Low Resistance Meter JJG724-1991 V.R. for DC Digital Ohmmeter	10mΩ	10mΩ	*Urel=0.05%*		
					100mΩ		*Urel=0.05%*		
					0.1 Ω ～2 Ω		*Urel=0.10%～0.06%*		
					2 Ω ～20 Ω		*Urel=0.11%～0.03%*		
					20 Ω ～200 Ω		*Urel=0.09%～0.01%*		
					0.2k Ω ～2k Ω				
					2k Ω ～20k Ω		*Urel=0.09%～0.06%*		
					20k Ω ～100k Ω		*Urel=0.11%～0.02%*		
291	D.C. low resistance meters	Resistance	0410	JJG837-2003 V.R.of D.C. low resistance meters	1m Ω ～100m Ω		*Urel=0.05%*		
					0.1 Ω ～2 Ω		*Urel=0.10%～0.06%*		
					2 Ω ～20 Ω		*Urel=0.11%～0.03%*		
					20 Ω ～200 Ω		*Urel=0.09%～0.01%*		
					0.2k Ω ～2k Ω				
					2k Ω ～20k Ω		*Urel=0.09%～0.06%*		
					20k Ω ～100k Ω		*Urel=0.11%～0.02%*		
					100k Ω ～10M Ω		*Urel=1.6%*		
292	Earth resistance meters	电阻	0410	JJG366-2004 V.R.of earth resistance meters	(0.1～1) Ω		*Urel=1.0%*		
					(1～10) Ω		*Urel=0.5%*		
					(10～100) Ω		*Urel=0.5%*		
					(100～2000) Ω		*Urel=0.5%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
293	Earth-Continuity Testers	Resistance	0410	JJG984-2004 V.R. of Earth-Continuity Testers	(10～1000)mΩ	(10～1000)mΩ	*Urel=(0.2～0.7)%*		
		Current			(1~60)A		*U=(0.2~6)%*		
294	Withstanding voltage testers	DCV	0410	JJG795-2004 V.R.of Withstanding Voltage Testers	1V～10kV		*Urel=1.0%～0.5%*		
		ACV			1V～10kV	50Hz～1kHz	*Urel=1.2%～0.6%*		
		DCI			(0.1～100)mA		*Urel=0.5%～0.1%*		
		ACI			(0.1～100)mA	50Hz～1kHz	*Urel=0.7%～0.3%*		
		Time			(1-3600)s		*Urel=0.2%*		
295	High- frequency withstanding voltage tester	voltage	0403	JJG795-2004 V.R.of Withstanding Voltage Testers	(0.1～40)kV	1kHz～10MHz	*Urel=2.5%～1.2%*		
296	Spark Tester	ACV	0426	JJG(Zhe)84-2006 V.R. of Spark Tester	(0.1～10)kV		*Urel=2.2%～1.5%*		
					(10～40)kV		*Urel=0.6%*		
		DCV			(0.1～10)kV		*Urel=1.9%～0.7%*		
					(10～40)kV		*Urel=0.6%*		
297	Trace Testing Apparatus of Leakage Current	Voltage	0410	JJG795-2004 V.R.of Withstanding Voltage Testers	(0.05～10)kV	(45~60)Hz	*Urel=1.2%～0.6%*		
		Current			1mA～1A		*Urel=0.5%～0.1%*		
		Time			(0.1～100)s		*Urel=0.5%*		
298	Wrist Strap/Footwear Tester	Resistance	403.03	JJF(Electronic) 31502-2010 C.S for Wrist Strap/Footwear Tester	1kΩ～≤10MΩ		*Urel=1.6%*		
					10MΩ～≤100MΩ		*Urel=1.9%*		
					100MΩ～1000MΩ		*Urel=2.6%*		
299	Surface Resistivity Meter, Wrist Strap/Foot-wear Tester	Resistance	0402	JJF1285-2011 C.S.for Surface Resistances Tester	(103～107)Ω		*Urel=1.1%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
299	Surface Resistivity Meter, Wrist Strap/Foot-wear Tester	Resistance	0402	JJF1285-2011 C.S.for Surface Resistances Tester	(107～1011) Ω	(107～1011) Ω	*Urel=1.6%～2.9%*		
300	Megohm meter	Resistance	0410	JJG622-1997 V.R.of megohm meter	100Ω～10MΩ		*Urel=2.0%*		
					10MΩ～1GΩ		*Urel=2.3%*		
					1GΩ～10GΩ		*Urel=3.1%*		
					(10~1000)V		*Urel=0.5%*		
		Voltage			(≥1~5)kV		*Urel=1.0%*		
301	Eletronical Megohm meter	Resistance	0402	JJG1005-2005 V.R of Eletronical Megohm meter	100Ω ～<10MΩ		*Urel=1.1%*		
					10MΩ ～<100MΩ		*Urel=1.2%*		
					100MΩ ～<1GΩ		*Urel=1.6%*		
					1GΩ ～<10GΩ		*Urel=2.8%*		
					1GΩ ～100GΩ		*Urel=6.0%*		
		voltage			(10～<1000)V		*Urel=0.26%*		
					(1000～5000)V		*Urel=0.78%*		
302	High insulation resistance meter	Resistance	0410	JJG690-2003 V.R. of high insulation resistance meters	0.1MΩ～10MΩ		*Urel=0.3%*		
					10MΩ～100MΩ		*Urel=0.6%*		
					100MΩ～1000MΩ		*Urel=1.2%*		
					1GΩ～10GΩ		*Urel=2.3%*		
					10GΩ～100GΩ		*Urel=5.8%*		
		voltage			(10~1000)V		*Urel=0.5%*		
					(≥1~5)kV		*Urel=0.8%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
303	Leakage Current Instru-ment and Meter	voltage	0410	JJG843-2007 V.R.of Leakage Current Instrument and Meter	1V～1000V	1V～1000V	*Urel=0.1%~0.8%*		
		Current			1μA～10mA	DC~65Hz	*Urel=0.1%~0.4%*		
					10mA～100mA		*Urel=0.1%~0.2%*		
304	Safety Tester	ACV	1700	JJG 795-2004 V.R.for Withstanding Voltage Testers	10mV～10kV (50Hz～1kHz)		*Urel=1.2%～0.6%*		
		DCV			10mV～10kV		*Urel=1.0%～0.5%*		
		ACI			(0.1～100)mA (50Hz～1kHz)		*Urel=0.7%～0.3%*		
		DCI			(0.1～100)mA		*Urel=0.5%～0.1%*		
		Time			(0.1～3600)s		*Urel=0.2%*		
		ACI		JJG843-2007 V.R.for Leakage Current Meter	(0.1～100)mA (50Hz～1kHz)		*Urel=0.7%～0.3%*		
		DCI			(0.1～100)mA		*Urel=0.5%～0.1%*		
		Insulation Resistance		JJG 690-2003 V.R.for High Insulation Resistance Meters	0.1MΩ～10MΩ		*Urel=0.3%*		
					10MΩ～100MΩ		*Urel=0.6%*		
					100MΩ～1000MΩ		*Urel=1.2%*		
					1GΩ～10GΩ		*Urel=2.3%*		
					10GΩ～100GΩ		*Urel=5.8%*		
		Voltage			(10~1000)V		*Urel=0.5%*		
					(≥1~5)kV		*Urel=1%*		
		Earth-Continuity Current			(10～50)mΩ		*Urel=1.0%～0.3%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
304	Safety Tester	Earth-Continuity Current	1700	JJG 690-2003 V.R.for High Insulation Resistance Meters	(50～1000)mΩ	(50～1000)mΩ	*Urel=0.3%*		
					(1~60)A		*U=0.2%*		
305	Cable Tester	Resistance(Continuity Resistance、O/S Risistance	0410	JJG724-1991 V.R. of DC Digital Ohmmeter	(0.01～100000)Ω		*Urel =0.8%～0.1%*		
		Insulation Resistance		JJG1005-2005 V.R of Eletronical Megohm meter	0.1MΩ～10MΩ		*Urel =2.0%*		
					10MΩ～100MΩ		*Urel =2.1%*		
					100MΩ～1000MΩ		*Urel =2.3%*		
		DCV		JJG795-2004 V. R. of Withstanding Voltage Testers	(50～10000)V		*Urel =1.2% ～0.1%*		
		ACV			(50～10000)V	10Hz～20kHz	*Urel =1.5% ～0.1%*		
306	D.C. resistance device	Resistance	0410	JJG982-2003 V.R.of D.C. resistance Box	(0.01～0.1)Ω		*Urel=0.54%～0.01%*		
					(0.1～1)Ω		*Urel=0.06%～0.01%*		
					(1～10)Ω				
					(10～100)Ω				
					(100～1000)Ω				
					(1～10)kΩ		*Urel=0.01%～0.001%*		
					(10～100)kΩ				
307	Capacitor	Capaci- tance	0418	JJG183-1992 V.R. of Standard Capacitors	1pF～1000μF	(20Hz～100kHz)	*Urel=0.06%*		
					1pF～1000μF	(100kHz～2MHz)	*Urel=0.15%*		
308	Inductors	Inductance	0406	JJG726-1991 V.R.of Standard Inductors	1μH～10H	(20Hz～100kHz)	*Urel=0.06%*		
					1μH～10H	(100kHz～2MHz)	*Urel=0.18%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
309	LCR Meter	Inductance	0410	JJG(Electronic)05020-88 GR1658 RLC Meter JJG(Electronic)05014-88 HP4274A、HP4275A Multi -Frequency LCR Meter	1μH～100mH	100Hz～100kHz	*Urel=0.06%*		
					1H	100Hz～1kHz	*Urel=0.12%*		
		Capacitance			1pF～1000μF	100Hz～100kHz	*Urel=0.06%*		
		Resistance			10mΩ	100Hz～100kHz	*Urel=0.06%*		
					100mΩ				
					0.1Ω～1Ω		*Urel =0.60%～0.10%*		
					1Ω～10Ω		*Urel =0.15%*		
					10Ω～100Ω		*Urel=0.21%～0.07%*		
					0.1kΩ～1kΩ				
					1kΩ～10kΩ				
					10kΩ～100kΩ				
					100kΩ～1MΩ				
		Voltage			1mV～5V	10Hz～20kHz	*Urel=0.4%～0.1%*		
						20kHz～50kHz	*Urel=0.7%～0.2%*		
						50kHz～100kHz	*Urel=1.2%～0.2%*		
		Frequency			100Hz～100kHz		*Urel=1×10-5*		
310	Transformer Synthetical Tester	Frequency	0410	JJG837-2003 V.R.of D.C. low resistance meters	100Hz～≤1kHz		*Urel=1×10-5*		
					1kHz～≤100kHz				
		Voltage			1mV～≤1V		*Urel=0.11%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
310	Transformer Synthetical Tester	Voltage	0410	JJG837-2003 V.R.of D.C. low resistance meters	1V～≤5V	1V～≤5V	*Urel=0.11%～0.14%*		
		DC Resistance			0.01Ω～≤0.1Ω		*Urel=0.14%～1.2%*		
					0.1Ω～≤1Ω		*Urel=0.23%～1.2%*		
					1Ω～≤10Ω		*Urel=0.06%～0.23%*		
					10Ω～≤100Ω		*Urel=0.01%～0.06%*		
					100Ω～≤100kΩ		*Urel=0.01%*		
		Inductance		JJG(Electronic)05020-88 GR1658 RLC Meter JJG(Electronic)05014-88 HP4274A、HP4275A Multi -Frequency LCR Meter	1μH～≤1H		*Urel=0.02%*		
		Capaci- tance			1pF～≤100μF		*Urel=0.03%*		
		Turn Ratio		Q/CTI C004-2006 Calibration Methods of Turns Ratio and Phase Tester	1～≤10000		*Urel=0.4%*		
311	Turns Ratio and Phase Tester	Turn Ratio	1700	Q/CTI C004-2006 Calibration Methods of Turns Ratio and Phase Tester	1～10000	30Hz～100kHz	*Urel=0.5%*		
312	Turn tester	Circle Number	0410	SJ 20241-1993 V.R of YG series Turn tester	(1～≤10)turns		*Urel=12%*		
					(10～≤100)turns		*Urel=1.2%～12%*		
					(100～≤1000)turns		*Urel=0.16%～1.2%*		
					(1000～≤10000)turns		*Urel=0.10%～0.16%*		
					(10000～≤20000)turns		*Urel=0.10%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
313	RCD tester	Voltage	0410	JJF1283-2011 C.S of Residual Current Operated Circuit-breaker's Action Protection Feature	(50～300)V	(50～300)V	*U=0.85V*		
		Current			5mA~1500mA		*Urel=0.14%～2.3%*		
		Break Off Time	0412		(10～5000)ms		*Urel=3.1%～0.03%*		
314	Transistor Checker and Curve Tracer	Voltage	0418	JJF1236-2010 C.S.for Semiconductor Device Curve Tracers	(0.01～500)V/div		*Urel=1.0%*		
		Current			1 μ A/div～2 μ A/div		*Urel=1.1%*		
					2 μ A/div～1A/div		*Urel=1.0%*		
315	High Voltage (Electrosta-tic)Volt-meter (Probe)	ACV	1412	JJG 494-2005 V.R.of High Voltage Electrostatic Voltmeters	(10～2000)V	(45~65)Hz	*Urel=1.5%～2.8%*		
					(2～10)kV		*Urel=2.1%～3.9%*		
		DCV			(10～2000)V		*Urel =0.8%～2.1%*		
					(2～10)kV		*Urel =1.4%～3.3%*		
316	Ion Fan	Ion Balance Voltage	0410	Q/CTIC 02027-2013 C.S.of Ion Fan	(0～±1100)V		*U=2.2V*		
		Fall Time	0412		(0.1～999.9)s		*U=0.3s*		
317	Thermo- calibrator	Voltage	1502	JJG(Yue)001-1991 V.R. of Calibrator of SR501 Temperature Testers	(-199～0) mV		*U=42 μV～4.1 μV*		
					(0～+199) mV		*U=4.1 μV～42 μV*		
		Resistance			(1～400) Ω		*U=0.5mΩ*		
318	Electronic Stopwatch/Timer	Timer	0412	JJG237-2010 V.R. of Stopwatches	(0～99999)s		*U=0.06s～2s*		
		Daily Rate			±(0～99.99)s/d		*U=0.04s/d*		
319	Mechanic Stopwatch	Timer	0412	JJG237-2010 V.R. of Stopwatches	(0.01～900)s		*U=0.06s*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
320	Watch Tester	Daily Rate	0412	JJG488-2008 V.R. of Watch Tester	(-21.09～+21.09)s/d	(-21.09～+21.09)s/d	*U=0.02s/d*		
321	Universal Counters	Frequency	0412	JJG349-2001 V.R. of Universal Counters JJG841-2012 V.R.of Microwave Frequency Counters	10Hz～26.5GHz		*Urel=2×10-9*		
		Sensitivity	0412		10Hz～12.4GHz		*U=0.3dB*		
					12.4GHz～26.5GHz		*U=0.7dB*		
322	Electret Micro-phone Instrume-nts	Output Signal Frequency	0412	JJF 1145-2006 Calibration Specification for Electret Microphone Instruments	(10～10000)Hz		*Urel=0.04%*		
		DC Feed-Voltage	0415		100 mV～100V		*Urel=0.03%*		
		DC Feed-Current	0410		(0.01～100)mA		*Urel=0.18%*		
		Internal Load Resistance			10Ω～100kΩ		*Urel=0.15%*		
		Sound pressure Sensitivity	1401		(-60～-30) dB		*U=0.28dB*		
		Attenuation Level	1401		(-20～20) dB		*U=0.28dB*		
323	Oscillos-cope Calibrator	Voltage	0413	JJG278-2002 V.R.of Oscilloscope Calibrator	1mV～100mV		*Urel=5×10-4～1×10-4*		
					100mV～200V		*Urel=1×10-4*		
		Time			1ns～5s		*Urel=1×10-7*		
324	Oscillos-cope	Vertical defluxion factor	0410	JJG262-1996 V. R. of Analogue Oscilloscope	1mV/div～5mV/div		*Urel=1.5%～0.8%*		
					5mV/div～10V/div		*Urel =0.8%*		
		Level defluxion factor			1ns/div～10s/div		*Urel =0.4%*		
		Bandwidth			50kHz～2GHz		*Urel=1.5%*		
		Rise Time			≥150ps		*Urel =1.2%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
324	Oscillos-cope	Overshoot	0410	JJG262-1996 V. R. of Analogue Oscilloscope	0.1%~20%	0.1%~20%	*Urel=1.2%*		
		Resistance			800kΩ～1.2MΩ		*Urel=0.12%*		
		Calibration signal Frequency			1mV～100V	10Hz~20kHz	*Urel=0.12%*		
		Calibration signal Level			10Hz～1MHz		*Urel= 2×10-5*		
325	Digital OscilloSc-ope	Vertical defluxion factor	0413	JJF1057-1998 C.S.of Digital Strorage Oscilloscope	1mV/div～5mV/div		*Urel=1.2%～0.3%*		
					5mV/div～10V/div		*Urel=0.3%*		
		Level defluxion factor			0.5ns/div～10s/div		*Urel=0.06%*		
		Bandwidth			50kHz～2GHz		*Urel=1.5%*		
		Rise Time			≥150ps		*Urel =10%*		
		Overshoot			0.1%~20%		*Urel=1.2%*		
		Resistance			800kΩ～1.2MΩ		*Urel=0.12%*		
					40Ω～90Ω		*Urel=0.12%*		
		Calibration signal Frequency			1mV～100V	10Hz~20kHz	*Urel=0.12%*		
		Calibration signal Level			10Hz～1MHz		*Urel= 2×10-5*		
326	High Voltage Probe	Ratio	0413	JJF(Electronic) 30304-2008 C. S. for High Voltage Probes of Oscilloscope	1～1000		*Urel=1.3%*		
327	Current Probe	Attenuation Coefficient	0413	JJF(Electronic) 30305-2010 C. S. for Current Probes of Oscilloscope	1～1000		*Urel=1.2%*		
		ACI			≤1000A		*Urel=1.2%*		
		DCI			≤1000A		*Urel=1.2%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
328	Differential Probe of Oscilloscope	Attenuation Coefficient	0413	JJF(Electronic) 30306-2010 C. S. for Differential Probes of Oscilloscope	1～1000	1～1000	*Urel=1.2%*		
329	Super High Frequency Milli-voltmeter	Level	410	JJG308-2013 Verification Regulation of RF Voltmeters	1mV～300V	20kHz～1MHz	*Urel=0.3%*		
					0dBm～+30dBm	1MHz～1GHz	*U=0.25dB*		
					-40dBm～0dBm	1MHz～1GHz	*U=0.3dB*		
		Frequency Response			20kHz～1MHz		*Urel=3%*		
					1MHz～1GHz		*U=0.5dB*		
330	Electronic Voltmeter	Voltage	0426	JJG782-1992 V.R. of LF Electronic Voltmeter	1mV～330V	(45Hz～500kHz)	*See in table1*		
					(26～-30)dBm	(500kHz～1MHz)	*U=0.15dB*		
	Voltage measurement CMC								
	Voltage	Frequency							
		10Hz~45Hz	45Hz~10kHz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz~500kHz*		
	1mV~32.999mV	0.093%+7μV	0.022%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	*0.92%+58μV*		
	33mV~329.999mV	0.037%+9μV	0.022%+9μV	0.023%+9μV	0.043%+9μV	0.093%+37μV	*0.23%+81μV*		
	0.33V~3.29999V	0.037%+58μV	0.022%+69μV	0.026%+69μV	0.037%+58μV	0.082%+144μV	*0.27%+0.7mV*		
	3.3V~32.999V	0.037%+0.8mV	0.022%+0.7mV	0.031%+0.7mV	0.043%+0.7mV	0.10%+1.8mV	/		
	33V~330V	0.026%+2.3mV	0.027%+6.9mV	0.032%+6.9mV	0.037%+6.9mV	0.23%+57.7mV	/		
331	Distortion Meter	Frequency	0413	JJG251-1997 V.R. of Distortion Meter Calibrator	20Hz～500kHz		*Urel=0.05%*		
		Voltage measurement			1mV~300V		*See in table1*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
331	Distortion Meter	Distortion measurement	0413	JJG251-1997 V.R. of Distortion Meter Calibrator	(0.001～30)%	(0.001～30)%	*See in table2*		
	Table1：Voltage measurement CMC								
	Voltage	Frequency							
		10Hz~45Hz	45Hz~10kHz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz~500kHz*		
	1mV~32.999mV	0.093%+7μV	0.022%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	*0.92%+58μV*		
	33mV~329.999 mV	0.037%+9μV	0.022%+9μV	0.023%+9μV	0.043%+9μV	0.093%+37μV	*0.23%+81μV*		
	0.33V~3.29999V	0.037%+58μV	0.022%+69μV	0.026%+69μV	0.037%+58μV	0.082%+144μV	*0.27%+0.7mV*		
	3.3V~32.999V	0.037%+0.8mV	0.022%+0.7mV	0.031%+0.7mV	0.043%+0.7mV	0.10%+1.8mV	/		
	33V~330V	0.026%+2.3mV	0.027%+6.9mV	0.032%+6.9mV	0.037%+6.9mV	0.23%+57.7mV	/		
	Table2：Distortion measurement CMC								
	Distortion	Frequency							
		20Hz，200Hz		400Hz，1kHz	10kHz		*20kHz*	50kHz	
	30%～0.1%	2.3%±0.00034%		1.2%±0.00034%	2.3%±0.00034%		*2.3%±0.00034%*	3.5%±0.00034%	
	0.1%～0.03%	2.3%±0.00034%		1.2%±0.00034%	2.3%±0.00034%		*2.3%±0.00034%*	/	
	0.03%～0.01%	5.8%±0.00034%		5.8%±0.00034%	5.8%±0.00034%		/	/	
	0.01%～0.003%	12%±0.00034%		12%±0.00034%	/		/	/	
332	Sweep Signal Generator	Frequency	0416	JJG602-1996 V.R.of Low Frequency Meter Signal Generator JJG442-1986 V.R. of UHF Television Sweep Scope	20Hz～1GHz		*Urel=1×10-6*		
		Electrical Level			80 mV ～100V	10Hz～20kHz	*Urel=0.2%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
332	Sweep Signal Generator	Electrical Level	0416	JJG602-1996 V.R.of Low Frequency Meter Signal Generator JJG442-1986 V.R. of UHF Television Sweep Scope	80 mV ～ 100V	20kHz～100kHz	*Urel=0.8%*		
					(0～30dBm)	150kHz～1GHz	*U=0.22dB*		
					(0～-100dBm)	150kHz～1GHz	*U=0.34dB*		
		Distortion			(0.01～100)%	10Hz～20Hz	*Urel =23%*		
					(0.01～100)%	20Hz～20kHz	*Urel =14%*		
					(0.01～100)%	20kHz～100kHz	*Urel =25%*		
333	Low Frequency Signal Generator	Frequency	0416	JJG602-1996 V.R. of Low Frequency Signal Generator	10Hz～1MHz		*Urel= 2×10-5*		
		Voltage			1mV～100V	10Hz~20kHz	*Urel=0.12%*		
					1mV～100V	20kHz~50kHz	*Urel=0.2%*		
					1mV～100V	50kHz~100kHz	*Urel=0.8%*		
					1mV～100V	100kHz~300kHz	*Urel=5.2%*		
					(30～26)dBm	300kHz~1MHz	*U=0.25dB*		
					(26~-10)dBm		*U=0.22dB*		
					(-10~-130)dBm		*U=0.22dB~0.30dB*		
		Distortion			>0.03%~100%	20Hz～20kHz	*Urel=7.2%*		
						20kHz～110kHz	*Urel=14%*		
					0.005%~0.03%	20Hz～110kHz	*Urel=30%*		
334	Function Signal Generator	Frequency	416.01	JJG840-1993 V.R. of Function Generator	1Hz～500MHz		*Urel =3×10-10*		
		Level	0416		1mV～100V	10Hz~20kHz	*Urel=0.12%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
334	Function Signal Generator	Level	0416	JJG840-1993 V.R. of Function Generator	1mV～100V	20kHz~50kHz	*Urel=0.2%*		
					1mV～100V	50kHz~100kHz	*Urel=0.8%*		
					1mV～100V	100kHz~300kHz	*Urel=5.2%*		
					(30～26)dBm	300kHz~500MHz	*U=0.25dB*		
					(26~-10)dBm		*U=0.22dB*		
					(-10~-130)dBm		*U=0.22dB~0.30dB*		
		Distortion			>0.03%~100%	20Hz～20kHz	*Urel=7.2%*		
						20kHz～110kHz	*Urel=14%*		
					0.005%~0.03%	20Hz～110kHz	*Urel=30%*		
		Harmonic Wave	416.05		(-80~0)dB	100kHz～500MHz	*U=0.70dB*		
		AM	0416		Carrier Wave Frequency	Modulation Frequency	*(5~99)%*		
					100kHz~10MHz	10Hz~10kHz	*Urel=1.7%*		
					10MHz~26.5GHz	10Hz~50kHz	*Urel=1.2%*		
						50kHz~100kHz	*Urel=1.7%*		
		FM			Carrier Wave Frequency	Modulation Frequency	*(0~500)kHz*		
					100kHz~10MHz	10Hz~10kHz	*Urel=1.2%*		
					10MHz~26.5GHz	10Hz~100kHz	*Urel=1.2%*		
						100kHz~200kHz	*Urel=3.5%*		
		PM			Carrier Wave Frequency	Modulation Frequency	*(0~400)rad*		
					100kHz~10MHz	50Hz~10kHz	*Urel=1.2%*		
					10MHz~26.5GHz	50Hz~100kHz	*Urel=1.2%*		
		Modulation Frequency			100Hz~100kHz		*Urel=2.2×10-5*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
334	Function Signal Generator	Modulation Distortion	0416	JJG840-1993 V.R. of Function Generator	0.001%~100 % (–100dB~0dB)	0.001%~100 % (–100dB~0dB)	*Urel=6.9%*		
335	Audio Analyzer	Output Frequency	413	JJG(Electronic)30302-2008 V.R of Audio Analyzer JJF1395-2013 C.S of Audio Analyzer	10Hz～300kHz		*Urel= 2×10-5*		
		Output Voltage			1mV～100V	10Hz~20kHz	*Urel=0.12%*		
					1mV～100V	20kHz~50kHz	*Urel=0.2%*		
					1mV～100V	50kHz~100kHz	*Urel=0.8%*		
					1mV～100V	100kHz~300kHz	*Urel=5.2%*		
		Output Signal Distortion			>0.03%~100 %	20Hz～20kHz	*Urel=7.2%*		
						20kHz～110kHz	*Urel=14%*		
					0.005%~0.03 %	20Hz～110kHz	*Urel=30%*		
		Frequency Measurement			10Hz～300kHz		*Urel= 3.4×10-6*		
		ACV Measurement			1mV~330V	See in table1			
		Distortion Measurement			(0.001～30)%	See in table2			

Table1:Voltage Measurement CMC

Voltage	Frequency							
	10Hz~45Hz	45Hz~10kHz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz~500kHz*		
1mV~ 32.999mV	0.093%+7μV	0.022%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	*0.92%+58μV*		
33mV~ 329.999mV	0.037%+9μV	0.022%+9μV	0.023%+9μV	0.043%+9μV	0.093%+37μV	*0.23%+81μV*		
0.33V~ 3.29999V	0.037%+58μV	0.022%+69μV	0.026%+69μV	0.037%+58μV	0.082%+144μV	*0.27%+0.7mV*		
3.3V~ 32.999V	0.037%+0.8mV	0.022%+0.7mV	0.031%+0.7mV	0.043%+0.7mV	0.10%+1.8mV	/		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
335	33V~330V	0.026%+2.3mV	0.027%+6.9mV	0.032%+6.9mV	0.037%+6.9mV	0.23%+57.7mV	/		
	Table2:Distortion Measurment CMC								
	Distortion	Frequency							
		20Hz，200Hz		400Hz，1kHz	10kHz		*20kHz*	50kHz	
	30%～0.1%	2.3%±0.00034%		1.2%±0.00034%	2.3%±0.00034%		*2.3%±0.00034%*	3.5%±0.00034%	
	0.1%～0.03%	2.3%±0.00034%		1.2%±0.00034%	2.3%±0.00034%		*2.3%±0.00034%*	/	
	0.03%～0.01%	5.8%±0.00034%		5.8%±0.00034%	5.8%±0.00034%		/	/	
	0.01%～0.003%	12%±0.00034%		12%±0.00034%	/		/	/	
336	Filter	Bandwidth	0419	JJG 449-2001 V. R. of Octave-Band and One-Third-Octave Band Filters	20Hz～100kHz		*Urel =3.0×10-4*		
					100kHz～6GHz		*Urel =1.6×10-4*		
		Fluctuation			10Hz～50kHz		*U=0.02dB*		
					50kHz～100kHz		*U =0.07dB*		
					100kHz～6GHz		*U=0.17dB*		
337	Modulati-on Meter	Frequency	0416	JJF1111-2003 C.S. for Modulation Meters	150kHz～1GHz		*Urel=1×10-6*		
		AM Depth			(5%～99%)	20Hz～50Hz, 50kHz～100kHz	*Urel=4%*		
					(5%～99%)	50Hz～50kHz	*Urel=1.3%*		
		FM Deviation			50Hz～100kHz	0.4kHz～400kHz	*Urel=1.3%*		
338	Power Meter	Power	0419	JJG(Space)22-1987 436A V. R. of Powermeter	0.1mW/0.3mW/1mW/3mW/10mW/30mW/100mW		*Urel =0.3%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
338	Power Meter	Output Power	0419	JJG(Space)22-1987 436A V. R. of Powermeter	(-10～20)dBm 0.1MHz～18GHz	(-10～20)dBm 0.1MHz～18GHz	*U=0.1dB*		
339	Power Sensor	Power Calibration Factor	0419	GJB/J 3598-1999 V. R. for lower power mount	100kHz～18GHz		*Urel =4.0%*		
		Power	0419		(10 ～ -70)dBm	100kHz～18GHz	*U=0.18dB*		
340	Signal Generator /Digital Signal Generator	Frequency	0416	JJG173-2003 V.R of Signal Generators JJF1174-2007 Calibration Specification for Digital Signal Generator	100kHz~26.5GHz		*Urel =3×10-10*		
		Level			100kHz~4.2GHz	(30～26)dBm	*U=0.25dB*		
						(26～-10)dBm	*U=0.22dB*		
						(-10～-130)dBm	*U=0.22dB~0.30dB*		
					4.2GHz~8GHz	(30～26)dBm	*U=0.31dB*		
						(26～-10)dBm	*U=0.28dB*		
						(-10～-120)dBm	*U=0.28dB~0.35dB*		
					8GHz~12.4GHz	(30～26)dBm	*U=0.33dB*		
						(26～-10)dBm	*U=0.30dB*		
						(-10～-120)dBm	*U=0.30dB~0.37dB*		
					12.4GHz~18GHz	(30～26)dBm	*U=0.41dB*		
						(26～-10)dBm	*U=0.40dB*		
						(-10～-120)dBm	*U=0.40dB~0.47dB*		
					18GHz~26.5GHz	(30～26)dBm	*U=0.69dB*		
						(26～-10)dBm	*U=0.68dB*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
340	Signal Generator /Digital Signal Generator	Level	0416	JJG173-2003 V.R of Signal Generators JJF1174-2007 Calibration Specification for Digital Signal Generator	18GHz~26.5 GHz	(-10 ~ -120)dBm	*U=0.68dB~0.75dB*		
		Harmonic Wave			(-80~0)dB	20Hz～10MHz	*U=0.83dB*		
						10MHz～3.6GHz	*U=0.70dB*		
						3.6GHz~8GHz	*U=1.3dB*		
						8GHz~22GHz	*U=1.8dB*		
340	Signal Generator /Digital Signal Generator	AM Depth	0416	JJG173-2003 V.R of Signal Generators JJF1174-2007 Calibration Specification for Digital Signal Generator	Carrier Wave Frequency	Modulation Frequency	*(5~99)%*		
					100kHz~10 MHz	10Hz~10kHz	*Urel=1.7%*		
					10MHz~26.5 GHz	10Hz~50kHz	*Urel=1.2%*		
						50kHz~100kHz	*Urel=1.7%*		
		FM Deviation			Carrier Wave Frequency	Modulation Frequency	*(0~500)kHz*		
					100kHz~10 MHz	10Hz~10kHz	*Urel=1.2%*		
					10MHz~26.5 GHz	10Hz~100kHz	*Urel=1.2%*		
						100kHz~200 kHz	*Urel=3.5%*		
		PM Deviation			Carrier Wave Frequency	Modulation Frequency	*(0~400)rad*		
					100kHz~10 MHz	50Hz~10kHz	*Urel=1.2%*		
					10MHz~26.5 GHz	50Hz~100kHz	*Urel=1.2%*		
		Modulation Frequency			100Hz~100kHz		*Urel=2.2×10-5*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
340	Signal Generator /Digital Signal Generator	Modulation Distortion	0416	JJG173-2003 V.R of Signal Generators JJF1174-2007 Calibration Specification for Digital Signal Generator	0.001%~100 % (–100dB~0dB)	0.001%~100 % (–100dB~0dB)	*Urel=6.9%*		
		Waveform Quality Factor Rho			(0~1.000)		*U=0.0012*		
		EVM			(0~25)%		*U=0.29%*		
		Amplitude Error			(0~25)%		*U=0.29%*		
		Phase Error			(0~15)°		*U=0.23°*		
		Frequency Error			±30 kHz		*U=2.3Hz*		
		ACPR			(0~80)dBc		*U=0.69dB*		
		GFSK Error			(0~5)%		*U=3.6kHz*		
		DEVM			(0~25)%		*U=0.03%*		
341	Spectrum Analyzer/Vector Signal analyzer	REF Frequency	0419	JJF 1128-2004 C. S. for Vector Signal Analyzers JJF1396-2013 Calibration Specification for Spectrum Analyzer	(1/2/5/10)MHz		*Urel =3×10-9*		
		Frequency			100kHz~26.5GHz		*Urel =3×10-9*		
		Level			100kHz~4.2 GHz	(30 ~ 26)dBm	*U=0.17dB*		
						(26 ~ -10)dBm	*U=0.15dB*		
						(-10 ~ -130)dBm	*U=0.15dB~0.23dB*		
					4.2GHz~8GHz	(30 ~ 26)dBm	*U=0.39dB*		
						(26 ~ -10)dBm	*U=0.36dB*		
						(-10 ~ -120)dBm	*U=0.36dB~43dB*		
					8GHz~12.4GHz	(30 ~ 26)dBm	*U=0.61dB*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
341	Spectrum Analyzer/Vector Signal analyzer	Level	0419	JJF 1128-2004 C. S. for Vector Signal Analyzers JJF1396-2013 Calibration Specification for Spectrum Analyzer	8GHz~12.4GHz	(26 ~ -10)dBm	*U=0.60dB*		
						(-10 ~ -120)dBm	*U=0.60dB~0.67dB*		
					12.4GHz~18GHz	(30 ~ 26)dBm	*U=0.63dB*		
						(26 ~ -10)dBm	*U=0.62dB*		
						(-10 ~ -120)dBm	*U=0.62dB~0.69dB*		
					18GHz~26.5GHz	(30 ~ 26)dBm	*U=1.4dB*		
						(26 ~ -10)dBm	*U=1.3dB*		
						(-10 ~ -120)dBm	*U=1.4dB*		
		Sweep Span			100Hz～20GHz		*Urel =0.1%*		
		RBW			1Hz～20MHz		*Urel =1%*		
		Resolution Bandwidth Switching			1Hz～20MHz		*U=0.02dB*		
		Calibration Signal Frequency			100kHz~4.2GHz		*Urel =3×10-9*		
		Calibration signal Level			100kHz~4.2GHz		*U=0.15dB*		
		Attenuation			0~80dB		*U=0.02dB*		
		Average Noise Level			9kHz~26.5GHz		*U=1.6dB*		
		Waveform Quality Factor Rho			(0~1.000)		*U=0.0012*		
		EVM			(0~25)%		*U=0.29%*		
		Amplitude Error			(0~25)%		*U=0.29%*		
		Phase Error			(0~15)°		*U=0.23°*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
341	Spectrum Analyzer/Vector Signal analyzer	Frequency Error	0419	JJF 1128-2004 C. S. for Vector Signal Analyzers JJF1396-2013 Calibration Specification for Spectrum Analyzer	±30 kHz	±30 kHz	*U=2.3Hz*		
		ACPR			(0~80)dBc		*U=0.69dB*		
		GFSK Error			(0~5)%		*U=3.6kHz*		
		DEVM			(0~25)%		*U=0.03%*		
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	RF SIGNAL GENERATOR PART							

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Frequency	0420	JJF1065-2000 C.S for RF Communication Test Set JJF1131-2005 C.S for TDMA-GSM Radio Communication Tester JJF1177-2007 C.S for CDMA Radio Communication Tester JJF1276-2011 C.S for WCDMA Radio Communication Tester JJF1204-2008 C.S for TD-SCDMA Radio Communication Tester JJF1278-2011 C.S for Bluetooth Comprehensive Tester JJF1277-2011 C.S for WLAN Tester	100kHz~26.5GHz		*Urel =3×10-10*		
		Level			100kHz~4.2 GHz	(30 ~ 26)dBm	*U=0.25dB*		
						(26 ~ -10)dBm	*U=0.22dB*		
						(-10 ~ -130)dBm	*U=0.22dB~0.30dB*		
					4.2GHz~8G Hz	(30 ~ 26)dBm	*U=0.31dB*		
						(26 ~ -10)dBm	*U=0.28dB*		
						(-10 ~ -120)dBm	*U=0.28dB~0.35dB*		
					8GHz~12.4G Hz	(30 ~ 26)dBm	*U=0.33dB*		
						(26 ~ -10)dBm	*U=0.30dB*		
						(-10 ~ -120)dBm	*U=0.30dB~0.37dB*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Level	0420	JJF1065-2000 C.S for RF Communication Test Set JJF1131-2005 C.S for TDMA-GSM Radio Communication Tester JJF1177-2007 C.S for CDMA Radio Communication Tester JJF1276-2011 C.S for WCDMA Radio Communication Tester JJF1204-2008 C.S for TD-SCDMA Radio Communication Tester JJF1278-2011 C.S for Bluetooth Comprehensive Tester JJF1277-2011 C.S for WLAN Tester	12.4GHz~18 GHz	(30 ~ 26)dBm	*U=0.41dB*		
						(26 ~ -10)dBm	*U=0.40dB*		
						(-10 ~ -120)dBm	*U=0.40dB~0.47dB*		
					18GHz~ 26.5GHz	(30 ~ 26)dBm	*U=0.69dB*		
						(26 ~ -10)dBm	*U=0.68dB*		
						(-10 ~ -120)dBm	*U=0.68dB~0.75dB*		
		AM Depth	0420		Carrier Wave Frequency	Modulation Frequency	*(5~99)%*		
					100kHz~10 MHz	10Hz~10kHz	*Urel=1.7%*		
					10MHz~ 26.5GHz	10Hz~50kHz	*Urel=1.2%*		
						50kHz~100k Hz	*Urel=1.7%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	FM Deviation	0420	JJF1065-2000 C.S for RF Communication Test Set JJF1131-2005 C.S for TDMA-GSM Radio Communication Tester JJF1177-2007 C.S for CDMA Radio Communication Tester JJF1276-2011 C.S for WCDMA Radio Communication Tester JJF1204-2008 C.S for TD-SCDMA Radio Communication Tester JJF1278-2011 C.S for Bluetooth Comprehensive Tester JJF1277-2011 C.S for WLAN Tester	Carrier Wave Frequency	Modulation Frequency	*(0~500)kHz*		
					100kHz~10 MHz	10Hz~10kHz	*Urel=1.2%*		
					10MHz~ 26.5GHz	10Hz~100kHz	*Urel=1.2%*		
						100kHz~200 kHz	*Urel=3.5%*		
		PM Deviation			Carrier Wave Frequency	Modulation Frequency	*(0~400)rad*		
					100kHz~10 MHz	50Hz~10kHz	*Urel=1.2%*		
					10MHz~ 26.5GHz	50Hz~100kHz	*Urel=1.2%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range	Uncertainty (CMC, *k*=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Modulation Frequency	0420	JJF1065-2000 C.S for RF Communication Test Set JJF1131-2005 C.S for TDMA-GSM Radio Communication Tester JJF1177-2007 C.S for CDMA Radio Communication Tester JJF1276-2011 C.S for WCDMA Radio Communication Tester JJF1204-2008 C.S for TD-SCDMA Radio Communication Tester JJF1278-2011 C.S for Bluetooth Comprehensive Tester JJF1277-2011 C.S for WLAN Tester	100Hz~100kHz	*Urel=2.2×10-5*		
		Modulation Distortion			0.001%~100 % (–100dB~0dB)	*Urel=6.9%*		
		Waveform Quality Factor Rho			(0~1.000)	*U=0.0012*		
		EVM			(0~25)%	*U=0.29%*		
		Amplitude Error			(0~25)%	*U=0.29%*		
		Phase Error			(0~15)°	*U=0.23°*		
		Frequency Error			±30 kHz	*U=2.3Hz*		
		ACPR			(0~80)dBc	*U=0.69dB*		
		GFSK Error			(0~5)%	*U=3.6kHz*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range	Uncertainty (CMC, *k*=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	DEVM	0420	JJF1065-2000 C.S for RF Communication Test Set JJF1131-2005 C.S for TDMA-GSM Radio Communication Tester JJF1177-2007 C.S for CDMA Radio Communication Tester JJF1276-2011 C.S for WCDMA Radio Communication Tester JJF1204-2008 C.S for TD-SCDMA Radio Communication Tester JJF1278-2011 C.S for Bluetooth Comprehensive Tester JJF1277-2011 C.S for WLAN Tester	(0~25)%	*U=0.05%*		
		RF SIGNAL ANALYZER PART						

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Frequency Measurement	0420	JJF1065-2000 C.S for RF Communication Test Set JJF1131-2005 C.S for TDMA-GSM Radio Communication Tester JJF1177-2007 C.S for CDMA Radio Communication Tester JJF1276-2011 C.S for WCDMA Radio Communication Tester JJF1204-2008 C.S for TD-SCDMA Radio Communication Tester JJF1278-2011 C.S for Bluetooth Comprehensive Tester JJF1277-2011 C.S for WLAN Tester	100kHz~26.5GHz		*Urel =3×10-9*		
		Level Measurement	0420		100kHz~4.2 GHz	(30 ~ 26)dBm	*U=0.17dB*		
						(26 ~ -10)dBm	*U=0.15dB*		
						(-10 ~ -130)dBm	*U=0.15dB~0.23dB*		
					4.2GHz~8G Hz	(30 ~ 26)dBm	*U=0.39dB*		
						(26 ~ -10)dBm	*U=0.36dB*		
						(-10 ~ -120)dBm	*U=0.36dB~0.43dB*		
					8GHz~12.4G Hz	(30 ~ 26)dBm	*U=0.61dB*		
						(26 ~ -10)dBm	*U=0.60dB*		
						(-10 ~ -120)dBm	*U=0.60dB~0.67dB*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Level Measurement	0420	JJF1065-2000 C.S for RF Communication Test Set JJF1131-2005 C.S for TDMA-GSM Radio Communication Tester JJF1177-2007 C.S for CDMA Radio Communication Tester JJF1276-2011 C.S for WCDMA Radio Communication Tester JJF1204-2008 C.S for TD-SCDMA Radio Communication Tester JJF1278-2011 C.S for Bluetooth Comprehensive Tester JJF1277-2011 C.S for WLAN Tester	12.4GHz~ 18GHz	(30 ~ 26)dBm	*U=0.63dB*		
						(26 ~ -10)dBm	*U=0.62dB*		
						(-10 ~ -120)dBm	*U=0.62dB~0.69dB*		
					18GHz~ 26.5GHz	(30 ~ 26)dBm	*U=1.4dB*		
						(26 ~ -10)dBm	*U=1.3dB*		
						(-10 ~ -120)dBm	*U=1.4dB*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	AM Depth Measurement	0420	JJF1065-2000 C.S for RF Communication Test Set JJF1131-2005 C.S for TDMA-GSM Radio Communication Tester JJF1177-2007 C.S for CDMA Radio Communication Tester JJF1276-2011 C.S for WCDMA Radio Communication Tester JJF1204-2008 C.S for TD-SCDMA Radio Communication Tester JJF1278-2011 C.S for Bluetooth Comprehensive Tester JJF1277-2011 C.S for WLAN Tester	Carrier Wave Frequency	Modulation Frequency	*(5~99)%*		
					100kHz~10 MHz	10Hz~10kHz	*Urel=1.7%*		
					10MHz~ 26.5GHz	10Hz~50kHz	*Urel=1.2%*		
						50kHz~100k Hz	*Urel=1.7%*		
		FM Deviation Measurement	0420		Carrier Wave Frequency	Modulation Frequency	*(0~500)kHz*		
					100kHz~10 MHz	10Hz~10kHz	*Urel=1.2%*		
					10MHz~ 26.5GHz	10Hz~100kH z	*Urel=1.2%*		
						100kHz~200 kHz	*Urel=3.5%*		
		PM Deviation Measurement	0420		Carrier Wave Frequency	Modulation Frequency	*(0~400)rad*		
					100kHz~10 MHz	50Hz~10kHz	*Urel=1.2%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	PM Deviation Measurement	0420	JJF1065-2000 C.S for RF Communication Test Set JJF1131-2005 C.S for TDMA-GSM Radio Communication Tester JJF1177-2007 C.S for CDMA Radio Communication Tester JJF1276-2011 C.S for WCDMA Radio Communication Tester JJF1204-2008 C.S for TD-SCDMA Radio Communication Tester JJF1278-2011 C.S for Bluetooth Comprehensive Tester JJF1277-2011 C.S for WLAN Tester	10MHz~ 26.5GHz	50Hz~100kHz	*Urel=1.2%*		
		Waveform Quality Factor Rho Measurement	0420		(0~1.000)		*U=0.0012*		
		EVM Measurement			(0~25)%		*U=0.29%*		
		Amplitude Error Measurement			(0~25)%		*U=0.29%*		
		Phase Error Measurement			(0~15)°		*U=0.23°*		
		Frequency Error Measurement			±30 kHz		*U=2.3Hz*		
		ACPR Measurement			(0~80)dBc		*U=0.69dB*		
		GFSK Error Measurement			(0~5)%		*U=3.6kHz*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	DEVM Measurement	0420	JJF1065-2000 C.S for RF Communication Test Set JJF1131-2005 C.S for TDMA-GSM Radio Communication Tester JJF1177-2007 C.S for CDMA Radio Communication Tester JJF1276-2011 C.S for WCDMA Radio Communication Tester JJF1204-2008 C.S for TD-SCDMA Radio Communication Tester JJF1278-2011 C.S for Bluetooth Comprehensive Tester JJF1277-2011 C.S for WLAN Tester	(0~25)%	(0~25)%	*U=0.03%*		
		AUDIO SIGNAL GENERATOR PART							
		Output Frequency	0413	JJF1395-2013 C.S of Audio Analyzer	10Hz～300kHz		*Urel= 2×10-5*		
		Output Voltage			1mV～100V	10Hz~20kHz	*Urel=0.12%*		
					1mV～100V	20kHz~50kHz	*Urel=0.2%*		
					1mV～100V	50kHz~100kHz	*Urel=0.8%*		
					1mV～100V	100kHz~300kHz	*Urel=5.2%*		
		Output Signal Distortion			>0.03%~100%	20Hz～20kHz	*Urel=7.2%*		
						20kHz～110kHz	*Urel=14%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Output Signal Distortion	0413	JJF1395-2013 C.S of Audio Analyzer	0.005%~0.03%	20Hz～110kHz	*Urel=30%*		
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	AUDIO SIGNAL ANALYZER PART							
		Frequency Measurement	0413	JJF1395-2013 C.S of Audio Analyzer	10Hz～300kHz		*Urel= 3.4×10-6*		
		ACV Measurement			1mV~330V	See in Table1	/		
		Distortion Measurement			(0.001～30)%	See in Table2	/		
	Table1:Voltage Measurement CMC								
	Voltage	Frequency							
		10Hz~45Hz	45Hz~10kHz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz~500kHz*		
	1mV~32.999mV	0.093%+7μV	0.022%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	*0.92%+58μV*		
	33mV~329.999mV	0.037%+9μV	0.022%+9μV	0.023%+9μV	0.043%+9μV	0.093%+37μV	*0.23%+81μV*		
	0.33V~ 3.29999V	0.037%+58μV	0.022%+69μV	0.026%+69μV	0.037%+58μV	0.082%+144μV	*0.27%+0.7mV*		
	3.3V~ 32.999V	0.037%+0.8mV	0.022%+0.7mV	0.031%+0.7mV	0.043%+0.7mV	0.10%+1.8mV	/		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
342	33V~330V	0.026%+2.3mV	0.027%+6.9mV	0.032%+6.9mV	0.037%+6.9mV	0.23%+57.7mV	/		
	Table2:Distortion Measurement CMC								
	Distortion	Frequency							
		20Hz，200Hz		400Hz，1kHz	10kHz		*20kHz*	50kHz	
	30%～0.1%	2.3%±0.00034%		1.2%±0.00034%	2.3%±0.00034%		*2.3%±0.00034%*	3.5%±0.00034%	
	0.1%～0.03%	2.3%±0.00034%		1.2%±0.00034%	2.3%±0.00034%		*2.3%±0.00034%*	/	
	0.03%～0.01%	5.8%±0.00034%		5.8%±0.00034%	5.8%±0.00034%		/	/	
	0.01%～0.003%	12%±0.00034%		12%±0.00034%	/		/	/	
343	Shielding Room	Shield Effect	0419	GB 12190-2006 Method for measuring the shielding effectiveness of electromagnetic shielding enclosures	(0~110)dB	9kHz~18GHz	*U=1.7dB*		
344	Preampli-fier	Gain	0419	JJG (Electronic) 02007-1989 V. R. of 2627 Model Preamplifier	100kHz~4.2GHz	(0~60)dB	*U=0.45dB*		
					4.2GHz~8GHz		*U=0.56dB*		
					8GHz~12.4GHz		*U=0.60dB*		
					12.4GHz~18GHz		*U=0.72dB*		
					18GHz~26.5GHz		*U=1.1dB*		
345	Attenuat-or	Attenuator	0419	JJG 387-2005 V. R. of Coaxial Attenuator	100kHz~4.2GHz	(0~10)dB	*U=0.17dB*		
						(10 ~120)dB	*U=0.17dB~0.24dB*		
					4.2GHz~8GHz	(0~10)dB	*U=0.18dB*		
						(10 ~120)dB	*U=0.18dB~0.25dB*		
					8GHz~12.4GHz	(0~10)dB	*U=0.18dB*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
345	Attenuat-or	Attenuator	0419	JJG 387-2005 V. R. of Coaxial Attenuator	8GHz~12.4GHz	(10 ~120)dB	*U=0.18dB~0.25dB*		
					12.4GHz~18GHz	(0~10)dB	*U=0.20dB*		
						(10 ~120)dB	*U=0.20dB~0.27dB*		
					18GHz~26.5GHz	(0~10)dB	*U=0.24dB*		
						(10 ~120)dB	*U=0.24dB~0.31dB*		
346	Artificial mains networks	Impendance	1207	JJG(Electronic) 30806-2007 V.R for Artificial mains networks	(0～100) Ω	9kHz～1MHz	*Urel =2.6%*		
						1MHz～15MHz	*Urel=4.0%*		
						15MHz～100MHz	*Urel =5.4%*		
		Voltage Division factor			(0～70)dB	9kHz～100MHz	*U=0.58dB*		
347	Network Analyzer	Frequncy	0420	JJF(电子) 30501-2007 C.S for Network Analyzer	100kHz~26.5GHz		*Urel =3×10-10*		
		Level	0420		100kHz~4.2GHz	(30 ~ 26)dBm	*U=0.25dB*		
						(26 ~ -10)dBm	*U=0.22dB*		
						(-10 ~ -130)dBm	*U=0.22dB~0.30dB*		
					4.2GHz~8GHz	(30 ~ 26)dBm	*U=0.31dB*		
						(26 ~ -10)dBm	*U=0.28dB*		
						(-10 ~ -120)dBm	*U=0.28dB~0.35dB*		
					8GHz~12.4GHz	(30 ~ 26)dBm	*U=0.33dB*		
						(26 ~ -10)dBm	*U=0.30dB*		
						(-10 ~ -120)dBm	*U=0.30dB~0.37dB*		
					12.4GHz~18GHz	(30 ~ 26)dBm	*U=0.41dB*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range		Uncertainty (CMC, *k*=2)	Limitation	Note
347	Network Analyzer	Level	0420	JJF(电子) 30501-2007 C.S for Network Analyzer	12.4GHz~18GHz	(26～-10)dBm	*U=0.40dB*		
						(-10～-120)dBm	*U=0.40dB~0.47dB*		
					18GHz~26.5GHz	(30～26)dBm	*U=0.69dB*		
						(26～-10)dBm	*U=0.68dB*		
						(-10～-120)dBm	*U=0.68dB ~0.75dB*		
		Harmonic Wave	0416.05		(-80~0)dB	20Hz～10MHz	*U=0.83dB*		
						10MHz～3.6GHz	*U=0.70dB*		
						3.6GHz~8GHz	*U=1.3dB*		
						8GHz~22GHz	*U=1.8dB*		
		Attenuation	0420		(0~100)dB		*U=（0.1~1.5）dB*		
		SWR			1.01~2.00		*U=0.05*		
348	RF Impedance Analyzer	Frequency	0419	JJF 1127-2004 C. S. for RF Impedance/Material Analyzers	1MHz～3.0GHz		*Urel=2×10-6*		
		Impedance			0.1Ω～50kΩ	1MHz～100MHz	*Urel=0.4%*		
					0.1Ω～50kΩ	100MHz～3.0GHz	*Urel=1.5%*		
		Phase			1MHz～100MHz	(-180°～+180°)	*U=0.2°*		
					100MHz～3.0GHz	(-180°～+180°)	*U=0.9°*		
		Voltage			(-40～+40)V		*Urel=0.2%*		
349	Data Signal Generator	Inner clock Frequency	0419	Q/CTIC301-2008 Calibration Method for Data Signal Generator	≤200MHz		*Urel=5×10-5*		
		Outer Clock Input			(-2.0～+7.0)V		*Urel=3%*		
		High-Level Output			(-3.0～+6.0)V		*Urel=3%*		

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№	Instrument	Parameter	Code of Field	Title, Code of Calibration Method	Range	Uncertainty (CMC, *k*=2)	Limitation	Note
349	Data Signal Generator	Low-Level Output	0419	Q/CTIC301-2008 Calibration Method for Data Signal Generator	(-3.0～+6.0)V	*Urel=3%*		
350	Electric Energy Meter	Electric Energy	1514	JJF1055-1997 Technical Norm of the Calibration of AC Watt-hour Meters at Place of Installation	50W.s~1000kW.h(45Hz~65Hz)	*Urel=(0.6~0.2)%*		

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中 国 合 格 评 定 国 家 认 可 委 员 会

认 可 证 书 附 件

（注册号：CNAS L5102）

名称:深圳市华测计量技术有限公司

地址：广东省深圳市宝安区西乡街道桃花源科技创新园 C 栋

签发日期：2015 年 03 月 18 日　　有效期至：2017 年 05 月 15 日

附件 1 认可的授权签字人及领域

序号	姓　名	授权签字领域	备　注
1	刘文静	全部校准项目及几何量检测项目	
2	陈世郁	全部校准项目及几何量检测项目	
3	周建国	几何量检测、长度校准项目	
4	侯明	热工、力学校准项目	
5	谭贝	热工、力学校准项目	
6	李鹏辉	理化、光学校准项目	

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CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT

APPENDIX OF ACCREDITATION CERTIFICATE

(Registration No. CNAS L5102)

NAME:CTI Metrology Technology Co., Ltd.

ADDRESS:Building C, Taohuayuan Innovation Park, Xixiang, Baoan District, Shenzhen, Guangdong, China

Date of Issue:2015-03-18 **Date of Expiry:2017-05-15**

APPENDIX 1 ACCREDITED SIGNATORIES AND SCOPE

№	Name	Authorized Scope of Signature	Note
1	Lily Liu	All items of calibration	
2	Chen Shiyu	All items of calibration	
3	Zhou Jianguo	Geometrical product Testing，Length	
4	Hou Ming	Mechanics，Temperature	
5	Tan Bei	Mechanics，Temperature	
6	Li Penghui	Physical chemistry、Optics	

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中 国 合 格 评 定 国 家 认 可 委 员 会

认 可 证 书 附 件

（注册号：CNAS L5102）

名称:深圳市华测计量技术有限公司

地址：广东省深圳市宝安区西乡街道桃花源科技创新园 C 栋

认可依据：ISO/IEC 17025 以及 CNAS 特定认可要求

签发日期：2015 年 03 月 18 日　　有效期至：2017 年 05 月 15 日

附件 3 认可的校准能力范围

序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围		扩展不确定度（k=2）	限制说明	备注
1	通用卡尺	长度	通用卡尺检定规程 JJG 30-2012	数显卡尺	(0～600)mm	U=0.01mm		
					(>600～1000)mm	U=0.02mm		
				游标卡尺	(0～600)mm	U=0.01mm		
					(>600～1000)mm	U=0.02mm		
				带表卡尺	(0～300)mm	U=0.01mm		
				深度卡尺	(0～600)mm	U=0.01mm		
2	高度卡尺	长度	高度卡尺检定规程 JJG 31-2011	(0～600)mm		U=0.01mm		

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序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围	扩展不确定度（k=2）	限制说明	备注
2	高度卡尺	长度	高度卡尺检定规程 JJG 31-2011	（＞600～1000）mm	U=0.02mm		
3	千分尺	长度	千分尺检定规程 JJG 21-2008	数显(0～75)mm	U=1μm		
				数显(75～500)mm	U=2μm		
				(0～500)mm	U=2μm		
			外径千分尺校准规范（测量范围500mm～3000mm） JJF 1088-2002	(500～1000)mm	U=(3+5L)μm L-m		
			千分尺检定规程 JJG 21-2008	校对杆(25～500)mm	U=(0.6+2L)μm L-m		
4	深度千分尺	长度	深度千分尺检定规程 JJG 24-2003	(0～300)mm	U=(1+5L)μm L-m		
5	内径千分尺	长度	内径千分尺检定规程 JJG 22-2003	(25～500)mm	U=(1.5+5L)μm L-m		
6	内测千分尺	长度	测量内尺寸千分尺校准规范 JJF 1411-2013	(3～150)mm	U=2μm		
7	杠杆千分尺 杠杆卡规	长度	杠杆千分尺、 杠杆卡规检定规程 JJG 26-2011	(0～100)mm	U=1.2μm		
8	公法线千分尺	长度	公法线千分尺检定规程 JJG 82-2010	≤200mm	U=2μm		
9	带表千分尺	长度	带表千分尺检定规程 JJG 427-2004	（0～100）mm	U=1.2μm		
10	百分表式卡规	长度	百分表式卡规检定规程 JJG 109-2004	≤150mm	U=3.0μm		

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序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围		扩展不确定度（k=2）	限制说明	备注
11	带表卡规	长度	带表卡规校准规范 JJF 1253-2010	（0.5～100）mm	分度值 0.005mm	U=0.007mm		
					分度值 0.01mm	U=0.016mm		
					分度值 0.02mm	U=0.031mm		
12	平尺	直线度	平尺校准规范 JJF 1097-2003	(400～6300)mm		U=(0.5+0.6L) μm L:m		
13	水平尺	角度	水平尺校准规范 JJF 1085-2002	(200～1200)mm		U_{rel}=8%		
14	塞尺	长度	塞尺检定规程 JJG 62-2007	(0.02～3.00)mm		U=1 μm		
15	钢直尺	长度	钢直尺检定规程 JJG 1-1999	（0～2000）mm		U=(0.05+0.02L)mm L-m		
16	钢卷尺	长度	钢卷尺检定规程 JJG 4-1999	(0～200)m		U =(0.1+0.02L) mm L-m		
17	直角尺	角度	直角尺检定规程 JJG 7-2004	≤63mm		U =0.5 μm		
				(＞63～125)mm		U =1.0 μm		
				(＞125～315)mm		U =2.0 μm		
				(＞315～500)mm		U =3.0 μm		
				线纹直角尺≤500mm		U =0.01mm		
18	木直(折)尺	长度	木(直)折尺检定规程 JJG 2-1999	≤3000mm		U=0.2mm		
19	斜塞尺/间隙尺/楔形塞尺	长度	建筑工程质量检测器组校准规范 JJF 1110-2003	≤15mm		U=0.04mm		

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20	柔性周径尺	长度	柔性周径尺检定规程 JJG 670-1990	(0～211)cm		U=0.1mm		
21	纤维卷尺 测绳	长度	纤维卷尺、测绳检定规程 JJG 5-2001	≤200m		U=(1.0+0.04L)mm L-m		
22	刀口形直尺	直线度	刀口形直尺检定规程 JJG 63-2007	≤300mm		U=0.3μm		
23	千分表	长度	指示表(指针式数显式）检定规程 JJG 34-2008	(0～5)mm	分度值 0.001mm	U=(1.0+0.3L) μm L-mm		
					分度值 0.002mm	U=(1.2+0.3L) μm L-mm		
24	百分表	长度	指示表(指针式数 显式)检定规程 JJG 34-2008	(0～10)mm		U=3μm		
25	大量程百分表	长度	大量程百分表检定规程 JJG 379-2009	(0～50)mm		U=5μm		
26	杠杆千分表	长度	杠杆表检定规程 JJG 35-2006	(0～1)mm		U=1.2μm		
27	杠杆百分表	长度	杠杆表检定规程 JJG 35-2006	(0～5)mm		U=3μm		
28	内径表	长度	内径表校准规范 JJF 1102-2003	内径百分表(2～450)mm		U=3μm		
				内径千分表(10～400)mm		U=1.1μm		
29	深度指示表	长度	深度指示表检定规程 JJG 830-2007	(0～100)mm		U=3μm		
30	量块	长度	量块检定规程 JJG 146-2011	(0.5～500)mm		U=(0.15+1.5L) μm L-m		

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31	步距规	长度	步距规校准方法 Q/CTIC 02031-2013	≤600mm		U=(1.5+1.5L) μm L-m		
32	卡尺校正器	长度	步距规校准方法 Q/CTIC 02031-2013	≤600mm		U=(1.5+1.5L) μm L-m		
33	工作用玻璃线纹尺	长度	线纹尺校准方法 Q/CTIC 02028-2013	≤300mm		U=1.1μm		
34	平板	平面度	平板检定规程 JJG 117-2013	(2000×3000)mm		U=(0.6+0.7L) μm L-m 对角线		
35	刮板细度计 漆膜涂布器	长度	刮板细度计检定规程 JJG 905-2010	(0～150)μm		U=0.5μm		
36	光学计	长度	光学计检定规程 JJG 45-1999	(0～180)mm		U=0.11μm		
37	指示类量具检定仪	长度	指示类量具检定仪检定规程 JJG 201-2008	(0～50)mm		U=1.0μm		
				(0～5)mm		U=0.3μm		
38	磁性、电涡流式覆层厚度测量仪	长度	磁性、电涡流式覆层厚度测量仪检定规程 JJG 818-2005	(0～1)mm		U=1.1μm		
				(＞1～10)mm		U=2.1μm		
		长度		膜厚片厚度	(5～100)μm	U=0.5μm		
					(＞100～1000)μm	U=2.5μm		
39	厚度表	长度	厚度表校准规范 JJF 1255-2010	≤30mm		U=2μm		
40	超声波测厚仪	长度	超声波测厚仪校准规范 JJF 1126-2004	(0.5～200)mm		U=(0.01+0.2L) mm L-m		

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41	X 射线荧光镀层测厚仪	长度	X 射线荧光镀层测厚仪校准规范 JJF 1306-2011	(0～15) μm	U_{rel}=6%	只测 Au、Ag、Cu、Ni、Pd、Sn、Zn、Cr、SnPb 元素	
		长度		标准片厚度(0.01～15) μm	U_{rel}=6.4%		
42	织物厚度仪	长度	织物厚度仪校准规范 JJF(纺织) 020-2010	≤10mm	U=1.4 μm		
		质量		≤500g	U=0.05g		
43	锡膏厚度测试仪	长度	锡膏测厚仪校准方法 Q/CTIC 02030-2013	（1～1000） μm	U=4 μm		
44	锡膏厚度测试仪标准块	长度	锡膏测厚标准块校准方法 Q/CTIC 02029-2013	（1～1000） μm	U=1.7 μm		
45	表面粗糙度测量仪	粗糙度	触针式表面粗糙度测量仪校准规范 JJF 1105-2003	Ra: (0.012～12.50) μm	U_{rel}=3％		
46	表面粗糙度比较样块	粗糙度	表面粗糙度比较样块校准规范 JJF 1099-2003	Ra（0.025～25） μm	U_{rel}=6%		
47	半径样板	长度	半径样板检定规程 JJG 58-2010	R (0.1～25.0)mm	U=(5+0.2L) μm L-mm		

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48	螺纹样板	长度	螺纹样板检定规程 JJG 60-2012	螺距(0.40～6.00)mm	U=(2+0.4L) μm L-mm		
49	三针	长度	针规、三针检定规程 JJF 1207-2008	Φ(0.118～6.585)mm	U=0.3μm		
50	针规	长度	针规、三针检定规程 JJF 1207-2008	≤Φ30mm	U=0.5μm		
51	平面平晶	平面度	平晶检定规程 JJG 28-2000	D(30～100)mm	U=0.01μm		
52	平行平晶	平面度	平晶检定规程 JJG 28-2000	(12～91)mm	U=0.01 μm		
		平行度			U=0.2μm		
53	计米器码表	长度	线缆计米器检定规程 JJG 987-2004	≤10m	U_{rel}=1.4%		
				11m～200m	U_{rel}=0.2%		
				201m～100000m	U_{rel}=0.03%		
54	激光测径仪	长度	激光测径仪校准规范 JJF 1250-2010	≤30mm	U=0.5μm		
55	数显指示表	长度	深度指示表检定规程 JJG 830-2007	≤100mm	U=2μm		
56	数显测高仪	长度	数显测高仪校准规范 JJF 1254-2010	(0～1000)mm	U=(0.8+1.0L) μm L-m		
57	螺纹塞规	长度	圆柱螺纹量规校准规范 JJF 1345-2012	Φ(1～100)mm	U=2.0μm		
58	螺纹环规	长度	圆柱螺纹量规校准规范 JJF 1345-2012	Φ（2～200）mm	U=3.0μm		
59	标准环规	长度	标准环规检定规程 JJG 894-1995	Φ(1～200)mm	U=(1.0+0.01L）μm L-mm		

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60	光滑极限量规	长度	光滑极限量规检定规程 JJG 343-2012	塞规	(1～100)mm	U=0.5μm		
					(＞100～160)mm	U=0.8μm		
				环规	(1～100)mm	U=0.5μm		
					(＞100～160)mm	U=1.0μm		
61	读数显微镜（百倍镜、十倍镜）	长度	读数、测量显微镜检定规程 JJG 571-2004	(0～8)mm		U=2.0μm		
62	测量显微镜	长度	读数、测量显微镜检定规程 JJG 571-2004	X：(0～50)mm		U=1.0μm		
				Y：(0～13)mm				
63	金相显微镜	长度	金相显微镜检定规程 JJG（教委）012-1996	物镜放大倍率（0.5～120）×		U_{rel}=1.0%		
64	生物显微镜	长度	生物显微镜校准规范 JJF 1402-2013	≤10mm		U=4μm		
				物镜放大倍率（0.5～120）×		U_{rel}=1.0%		
65	体视显微镜	长度	金相显微镜检定规程 JJG（教委）012-1996	物镜放大倍率（0.5～120）×		U_{rel}=1.0%		
66	工具显微镜	长度	工具显微镜检定规程 JJG 56-2000	(400×300)mm		U=(1.0+1.0L) μm L-m		
67	电感测微仪	长度	电感测微仪校准规范 JJF 1331-2011	(-1000～+1000)μm		U=0.4μm		
68	投影仪	长度	投影仪校准规范 JJF 1093-2002	(400×300)mm		U=(1.0+3.5L) μm L-m		

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68	投影仪	角度	投影仪校准规范 JJF 1093-2002	(0～360)°	U=2′		
69	影像测量仪（二次元）	长度	影像测量仪校准规范 JJF 1318-2011	(500×500)mm	U =(1.0+1.5L) μm L-m		
70	坐标测量机（三次元）	长度	坐标测量机校准规范 JJF 1064-2010	(0～1000)mm	U=(1.5+ 3L/1000) μm L:mm		
71	角度块	角度	角度块检定规程 JJG 70-2004	(0～90)°	U=9″		
72	万能角度尺	角度	万能角度尺检定规程 JJG 33-2002	0° ～360°	U=1′		
73	组合式角度尺	角度	组合式角度尺校准规范 JJF 1132-2005	(0～180)°	U=3′		
74	电子水平尺（角度规）	角度	电子水平尺校准规范 JJF 1119-2004	（0～100）mm	U=0.1°		
75	框式、条式水平仪	角度	框式水平仪和条式水平仪校准规范 JJF 1084-2002	(0.02～0.15)mm/m	U_{rel}=4.0％		
76	水平仪检定器	角度	水平仪检定器检定规程 JJG 191-2002	≤1.5mm/m	U_{rel}=1.9%		
77	正弦规	角度	正弦规检定规程 JJG 37-2005	(0～90)°，≤200mm	U=2.0″		
78	方箱	垂直度	方箱检定规程 JJG 194-2007	(100～500)mm	U=2.8 μm		
79	V 型块	平面度	V 型块 JIS B 7540-1972	≤200mm	U=0.9 μm		
		平行度			U=1.2 μm		
		长度			U=1.2 μm		
80	接触式干涉仪	长度	接触式干涉仪检定规程 JJG 101-2004	(0～180)mm	U=0.01 μm		

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81	测长机	长度	测长机校准规范 JJF 1066-2000	(0～1000)mm		U=(0.5+5L) μm L-m		
82	测长仪	长度	测长仪校准规范 JJF 1189-2008	(0～500)mm		U=(0.2+1.5L) μm L-m		
83	机械式比较仪	长度	机械式比较仪检定规程 JJG 39-2004	(-300～+300) μm		U=0.6 μm		
84	扭簧比较仪	长度	扭簧比较仪检定规程 JJG 118-2010	(-300～+300) μm		U=0.2 μm		
85	偏摆检查仪	长度	跳动检查仪校准规范 JJF 1109-2003	≤500mm		U=1.5 μm		
86	圆度仪	圆度	圆度、圆柱度测量仪检定规程 JJG 429-2000	≤500 μm		U_{rel}=2.0%		
87	试验筛	长度	试验筛校准规范 JJF 1175-2007	20 μm～125mm	ω≤5mm	U=2.0 μm		
					5mm＜ω≤125mm	U=0.02mm		
88	气动测量仪	长度	气动测量仪检定规程 JJG 356-2004	(0～400) μm		U=0.26 μm		
89	直角尺检查仪	垂直度	直角尺检查仪校准规范 JJF 1140-2006	（63～1000）mm		U=1.0 μm		
90	焊接检验尺	长度	焊接检验尺检定规程 JJG 704-2005	≤100mm		U=0.02mm		
		角度		≤160°		U=5′		

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91	玩具类测试器（测试模板、小物件测试器、咬力测试器、锐尖测试器、可触及探头等）	长度	玩具类测试器校准方法 Q/CTIC 02001-2013	≤1000mm	U=(0.005+0.025L)mm L-m		
		角度		(0～360)°	U=2′		
		力值		≤60N	U_{rel}=2%		
92	安规类测试器（试验指、试验针、试验探头、灯头量规、插头量规等）	长度	安规类测试器校准方法 Q/CTIC 02002-2013	≤1000mm	U=(0.005+0.025L)mm L-m		
		角度		(0～360)°	U=2′		
		力值		≤60N	U_{rel}=2%		
93	双金属温度计	温度	双金属温度计检定规程 JJG 226-2001	(-30～+20)℃	U=(0.5～0.3)℃		
				(20～95)℃	U=0.4℃		
				(95～300)℃	U=(0.4～0.6)℃		
94	压力式温度计	温度	压力式温度计检定规程 JJG 310-2002	(-30～+20)℃	U=(0.5～0.3)℃		
				(20～95)℃	U=0.5℃		
				(95～300)℃	U=(0.5～0.6)℃		
95	热敏电阻测温仪	温度	热敏电阻测温仪校准规范 JJF 1379-2012	(-30～+20)℃	U=(0.25～0.10)℃		
				(20～95)℃	U=(0.10～0.16)℃		
				(95～200)℃	U=(0.16～0.18)℃		

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96	工作用玻璃液体温度计	温度	工作用玻璃液体温度计检定规程 JJG 130-2011	(-30～+20)℃	U=(0.12～0.07)℃	只做普通玻璃液体温度计	
				(20～95)℃	U=(0.06～0.10)℃		
				(95～300)℃	U=(0.10～0.20)℃		
97	石油产品用玻璃液体温度计	温度	工作用玻璃液体温度计检定规程 JJG 130-2011	(-30～+20)℃	U=(0.12～0.07)℃	只做普通玻璃液体温度计	
				(20～95)℃	U=(0.06～0.10)℃		
				(95～300)℃	U=(0.10～0.20)℃		
98	电接点玻璃水银温度计	温度	电接点玻璃水银温度计检定规程 JJG 131-2004	(-30～+20)℃	U=(0.12～0.07)℃		
				(20～95)℃	U=(0.06～0.10)℃		
				(95～300)℃	U=(0.10～0.20)℃		
99	工业铂、铜热电阻	温度	工业铂、铜热电阻检定规程 JJG 229-2010	(-40～+300)℃	0℃：U=0.07℃ 100℃：U=0.10℃	不做AA级	
100	工作用廉金属热电偶	温度	工作用廉金属热电偶检定规程 JJG 351-1996	(-30～+300)℃	U=0.3℃		
				(300～1000)℃	U=1.6℃		
101	铠装热电偶	温度	铠装热电偶校准规范 JJF 1262-2010	(-80~+300)℃	U=(0.7~0.9)℃		

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101	铠装热电偶	温度	铠装热电偶校准规范 JJF 1262-2010	(300~1100)℃	U=(0.9~1.5)℃		
102	辐射温度计	辐射温度	500℃以下工作用辐射温度计检定规程 JJG 856-1994	(50～500)℃；波长 (8～14)μm	U=(1.8～3.3)℃		
103	热像仪	辐射温度	热像仪校准规范 JJF 1187-2008	(50～500)℃；波长 (8～14)μm	U=(1.8～3.3)℃		
104	机械式温湿度计	温度	机械式温湿度计检定规程 JJG 205-2005	(5～50)℃	U=0.5℃		
		湿度		(20～95)%RH	U=(1.5～1.6)%RH		
105	数字温湿度计（数字温湿度记录仪）	温度	机械式温湿度计检定规程 JJG 205-2005 湿度传感器校准规范 JJF 1076-2001	（5～50）℃	U=0.3℃		
		湿度		（20～70）%RH	U=(1.8～1.7)%RH		
				（70～98）%RH	U=(1.7～1.8)%RH		
106	数字温度计	温度	数字温度指示调节仪检定规程 JJG 617-1996	(-200～0)℃	U=(0.4～0.3)℃		
				(0～1300)℃	U=(0.3～0.6)℃		
107	数字温度计（带探头）	温度	数字温度计校准规范 JJF(苏) 95-2010	(-30~+100)℃	U=(0.3~0.2)℃		
				(100~300)℃	U=(0.2~0.3)℃		

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108	温度指示控制仪	温度	温度指示控制仪检定规程 JJG 874-2007	(-30～+20)℃	U=(0.21～0.11)℃		
				(20～95)℃	U=(0.11～0.17)℃		
				(95～300)℃	U=(0.17～0.23)℃		
109	数字温度指示调节仪	温度	数字温度指示调节仪检定规程 JJG 617-1996	(-200～0)℃	U=(0.4～0.3)℃		
				(0～1800)℃	U=(0.3～0.7)℃		
110	配热电阻用模拟式温度指示调节仪	温度	模拟式温度指示调节仪检定规程 JJG 951-2000	(0～800)℃	U=(0.29～0.60)℃		
111	配热电偶用模拟式温度指示调节仪	温度	模拟式温度指示调节仪检定规程 JJG 951-2000	(0～1300)℃	U=(0.8～1.3)℃		
112	恒温恒湿箱（包括恒温恒湿室、养护室等）	温度	环境试验设备温度、湿度校准规范 JJF 1101-2003	(-80～+180)℃	U=0.3℃		
		湿度		(0～100)%RH	U=1.5%RH		
113	恒温箱(包括干燥箱、高低温试验箱、烘箱、冷热冲击试验箱等)	温度	环境试验设备温度、湿度校准规范 JJF 1101-2003	(-80～0)℃	U=(0.5～0.4)℃		
				(0～300)℃	U=(0.4～1.7)℃		
114	盐雾试验箱	温度	盐雾试验箱校准规范 JJF(辽) 75-2009	（30～75）℃	U=(0.21～0.26)℃		
		盐雾沉降率		(1～2)ml/(80cm^2.h)	U=0.2ml/(80cm^2·h)		

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115	蒸汽老化试验箱	温度	环境试验设备温度、湿度校准规范 JJF 1101-2003	(0~98)℃	U=(0.3~0.4)℃		
116	UV 老化试验箱（氙灯老化试验箱）	温度	环境试验设备温度、湿度校准规范 JJF 1101-2003	(20~150)℃	U=0.4℃	不测辐照度	
117	沙尘试验箱	温度	沙尘试验设备校准规范 JJF(军工) 18-2012	(30~80)℃	U=0.4℃		
		风速		(0.1~10)m/s	U=0.3m/s		
		沙尘沉降速率		(0.1～20)g/(m²·d)	U=(0.3～0.6)g/(m²·d)		
118	水浴锅（含振荡）	温度	电热恒温水浴锅(带振动)校准方法 Q/CTIC 02033-2013	室温～95℃	U=(0.21～0.25)℃		
		转速		(40～200)r/min	U=(0.17～0.23)r/min		
119	灼热丝试验仪	温度	灼热丝试验仪校准方法 Q/CTIC 111-2013	(550～1100)℃	U=2℃		
		长度		(0～200)mm	U=(0.09~0.35)mm		
		时间		(0.01～1800)s	U=0.1s		
		质量		0.01g～2kg	U=(0.04~0.06)g		
120	燃烧试验仪(水平垂直、针焰试验机)	长度	燃烧试验仪校准方法 Q/CTIC 107-2013	(0~200)mm	U=(0.09~0.35)mm		
		角度		(0~180)°	U=(0.15~0.18)°		
		时间		(0.01~1800)s	U=0.1s		

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121	恒温槽(水槽、油槽、低温槽)	温度	恒温槽技术性能测试规范 JJF 1030-2010	(-80～+300)℃	U=0.015℃		
122	消解装置	温度	环境试验设备温度、湿度校准规范 JJF 1101-2003	（-30～+650）℃	U=(0.24～0.28)℃		
123	温度巡回检测仪	温度	温度巡回检测仪校准规范 JJF 1171-2007	(-80～0)℃	U=(0.18～0.10)℃		
				(0～300)℃	U=(0.10～0.17)℃		
124	脆化试验机	温度	脆化试验机校准方法 Q/CTIC 02023-2010	（-70～室温）℃	U=(0.33～0.16)℃		
125	多路温度测试仪（炉温测试仪、无纸记录仪）	温度	无纸记录仪检定规程 JJG（京）36-2004	(-200～+300)℃	U=0.3℃		
				(300～1300)℃	U=0.4℃		
126	老化试验机(箱)、焗炉	温度	环境试验设备温度、湿度校准规范 JJF 1101-2003	(-30～+800)℃	U=(0.4～1.7)℃		
127	隧道炉（波峰焊、回流焊）	温度	隧道炉（回流焊、波峰焊）校准方法 Q/CTIC 02034-2013	(室温～1100)℃	U=(1.6~2.0)℃		
128	箱式电阻炉（马弗炉）	温度	箱式电阻炉校准规范 JJF 1376-2012	(室温～+1100)℃	U=(0.8～1.2)℃		
129	耐洗色牢度试验机	长度	耐洗色牢度试验机校准规范 JJF(纺织) 026-2010	（0～300)mm	U=(0.13~0.41) mm		
		转速		（0～300）r/min	U=(0.7~3.3) r/min		

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129	耐洗色牢度试验机	时间	耐洗色牢度试验机校准规范 JJF(纺织) 026-2010	（0～3600）s	U=0.1s		
		温度		（0～95）℃	U=(0.31～0.34)℃		
130	热变形维卡试验机	温度	热变形维卡试验机校准方法 Q/CTIC 02022-2013	（0～300）℃	U=(0.33～0.40)℃		
		质量		（50～2000）g	U=(0.18～0.19)g		
		长度		（0.1～20）mm	U=(0.84～0.89)μm		
131	试验用洗衣、干衣机	温度	试验用洗衣、干衣机校准方法 Q/CTIC 02024-2013	（0～120）℃	U=(0.31～0.39)℃		
		搅拌速度		(0.1～1000)r/min	U=(1.3～10.1) r/min		
		时间		(0.01～3600)s	U=(0.09～0.25)s		
		水位		(0～300)mm	U=(0.30～0.46)mm		
		水量		(5～25)gal	U=(0.28～0.42)gal		
132	熨烫升华色牢度仪	温度	熨烫升华色牢度仪校准规范 JJF（纺织） 029-2012	常温～210℃	U=1.7℃		
		时间		（30～3600）s	U=(0.22～0.35)s		
		力值		16N	U=0.42N		
		长度		（1～2）mm	U=0.03mm		
133	熔点仪	温度	熔点仪检定规程 JJG 701-2008	(50～285) ℃	U=0.3℃		

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134	加热板	温度	加热板校准方法 Q/CTIC 02026-2013	(50~100)℃	U=1.6℃		
				(100~350)℃	U=1.7℃		
135	过程仪表校验仪（温度校验仪）	温度	温度校验仪校准规范 JJF 1309-2011	热电偶测量：(-200~+1300)℃	U=(0.15~0.23)℃		
				热电偶输出：(-200~+1300)℃	U=(0.13~0.21)℃		
				热电阻测量：(-200~+800)℃	U=(0.10~0.15)℃		
				热电阻输出：(-200~+800)℃	U=(0.11~0.15)℃		
136	非自行指示秤	质量	非自行指示秤检定规程 JJG 14-1997	20g～10kg	U=(1～2)g		
				10kg～100kg	U=(2～20)g		
				100kg～1000kg	U=20g～0.2kg		
137	数字指示秤	质量	数字指示秤检定规程 JJG 539-1997	0.02g～3kg	U=3mg～0.15g		
				3kg～30kg	U=(0.15～3)g		
				30kg～300kg	U=(3～20)g		
				300kg～1500kg	U=20g～0.35kg		
				1500kg～3000kg	U=(0.35～0.80)kg		

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138	模拟指示秤	质量	模拟指示秤检定规程 JJG 13-1997	2g～10kg	U=(0.5～10)g		
				10kg～30kg	U=(10～30)g		
				30kg～100kg	U=30g～0.10kg		
139	架盘天平	质量	架盘天平检定规程 JJG 156-2004	≤5 kg	U=0.3d		
140	非自动天平	质量	电子天平检定规程 JJG 1036-2008	1mg～500mg	U=(0.06～0.10)mg		
				500mg～1g	U=(0.10～0.12)mg		
				1g～500g	U=(0.12～0.20)mg		
				500g～1kg	U=(0.20～13)mg		
				1kg～30kg	U=13mg～0.2g		
			机械天平检定规程 JJG 98-2006	1mg～500mg	U=(0.02～0.08)mg		
				500mg～1g	U=(0.08～0.10)mg		
				1g～500g	U=(0.10～2.5)mg		
				500g～1kg	U=(2.5～5.0)mg		
				1kg～30kg	U=5.0mg～0.3g		
141	砝码	质量	砝码检定规程 JJG 99-2006	1mg～500mg	U=(0.02～0.07)mg		
				500mg～1g	U=(0.07～0.08)mg		
				1g～500g	U=(0.08～2.4)mg		
				500g～1kg	U=(2.4～4.6)mg		

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141	砝码	质量	砝码检定规程 JJG 99-2006	1kg～25kg	U=4.6mg～0.14g		
142	烘干法水分测定仪	质量	烘干法水分测定仪检定规程 JJG 658-2010	1mg～20kg	U=4d		
		含水量		0%～100%	U_{rel}=0.05%		
143	工作测力仪	力值	工作测力仪检定规程 JJG 455-2000	≤5000N	U_{rel}=0.3%		
144	摆锤式冲击试验机	力矩	摆锤式冲击试验机检定规程 JJG 145-2007	≤500J	U_{rel}=0.15%		
		打击中心至摆锤轴线的距离		≤1m	U_{rel}=0.15%		
145	悬臂梁式冲击试验机	力矩	悬臂梁式冲击试验机检定规程 JJG 608-1989	≤100J	U_{rel}=0.15%		
		打击中心至摆锤轴线的距离		≤1m	U_{rel}=0.15%		
146	量仪测力仪	力值	专用工作测力机校准规范 JJF 1134-2005	(0.1～20)N	U_{rel}=0.4%		
147	抗折试验机	力值	抗折试验机检定规程 JJG 476-2001	≤50kN	U_{rel}=0.3%		
148	拉力压力和万能材料试验机	力值	拉力、压力和万能材料试验机检定规程 JJG 139-2014	≤0.5N～200kN	U_{rel}=0.3%	1 级及以下	
149	非金属拉力压力和万能试验机	力值	拉力、压力和万能材料试验机检定规程 JJG 139-2014	≤0.5N～200kN	U_{rel}=0.3%	1 级及以下	
		位移		(0～1000)mm	U_{rel}=0.10%		
		速度		(0.1～1000)mm/min	U_{rel}=0.06%		

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150	电子式万能试验机	力值	电子式万能试验机检定规程 JJG 475-2008	≤0.5N～200kN	U_{rel}=0.3%	不做同轴度	
		位移		(0～1000)mm	U_{rel}=0.10%		
		速度		(0.1～1000)mm/min	U_{rel}=0.06%		
151	弹簧拉压试验机	力值	专用工作测力机校准规范 JJF 1134-2005	≤200kN	U_{rel}=0.3%		
152	插拔力试验机	质量（力值）	专用工作测力机校准规范 JJF 1134-2005	（1～200）kg	U_{rel}=0.3%		
153	压缩强度试验机	力值	纸板压缩强度试验仪检定规程 JJG(轻工) 49-2000	（0.5～3000）N	U_{rel}=0.3%		
154	纸箱抗压机	力值	纸箱抗压试验机检定规程 JJG(轻工) 115-2000	（0～50）KN	U_{rel}=0.4%		
155	维氏硬度计	硬度	金属维氏硬度计检定规程 JJG 151-2006	(100～1000)HV	U_{rel}=(1.1～2.0)%		
156	金属韦氏硬度计	硬度	金属韦氏硬度计检定规程（试行） JJG 944-2013	(1～20)HW	U=0.4 HW		
157	显微硬度计	硬度	金属维氏硬度计检规程 JJG 151-2006	(100～1000)HV	U_{rel}=(1.4～3.5)%		
158	橡胶测厚装置	长度	橡胶测厚计检定规程 JJG(化工) 104-1991	(0～100)mm	U=0.01mm		
159	邵氏硬度计	试验力	A 型邵氏硬度计检定规程 JJG 304-2003	(10～100)HA	U=0.4HA		
		几何尺寸		(0～200)mm	U=0.005mm		

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160	橡胶硬度计	试验力	D 型邵氏硬度计检定规程 JJG 1039-2008	(0～100)HD	U=0.4 HD		
		几何尺寸		(0～200)mm	U=0.004mm		
161	金属布氏硬度计	硬度	金属布氏硬度计检定规程 JJG 150-2005	≤125HBW	U_{rel}=1.3%		
				（125～225）HBW	U_{rel}=1.1%		
				(225～650)HBW	U_{rel}=1.0%		
162	里氏硬度计	硬度	里氏硬度计检定规程 JJG 747-1999	(500～800)HLD(G)	(500～570)HLD U=3.3 HLD (590～670)HLD U=3.7 HLD (750～800)HLD U=4.5 HLD		
163	洛氏硬度计	硬度	金属洛氏硬度计检定规程 JJG 112-2013	(75~88)HRA	U=0.6HRA		
				(80~100)HRB	U=0.8HRB		
				(20~30)HRC	U=0.6HRC		
				(30~50)HRC	U=0.6HRC		
				(50~70)HRC	U=0.5HRC		
164	金属表面洛氏硬度计	硬度	金属洛氏硬度计检定规程 JJG 112-2013	（89～91）HR15N	U=0.6 HRN		
				（42～80）HR30N	U=0.6HRN		
				（62～70）HR45N	U=0.7HRN		
				（87～93）HR15T	U=0.8HRT		

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164	金属表面洛氏硬度计	硬度	金属洛氏硬度计检定规程 JJG 112-2013	（70～82）HR30T	U=0.7HRT		
				（45～72）HR45T	U=0.6HRT		
165	转速表	转速	转速表检定规程 JJG 105-2000	接触式：(20～30000) r/min	U=(0.06～15)r/min		
				非接触式：(20～30000) r/min	U_{rel}=0.1%		
166	离心式恒加速度试验机	转速	离心式恒加速度试验机检定规程 JJG 972-2002	(1~99999) r/min	U_{rel}=0.7%		
		恒加速度		(1～99999) m/s^2	U_{rel}=2.7%		
167	弹簧管式一般压力表	压力	弹性元件式一般压力表、压力真空表和真空表检定规程 JJG 52-2013	(-0.1～+60) Mpa	U_{rel}=0.5%		
168	弹簧管式精密压力表及真空表	压力	弹簧管式精密压力表及真空表检定规程 JJG 49-2013	(-0.1～+60)Mpa	U_{rel}=0.1%		
169	差压表	压力	弹性元件式一般压力表、压力真空表和真空表检定规程 JJG 52-2013	(-0.1～+60) Mpa	U_{rel}=0.5%		
170	膜盒压力表	压力	弹性元件式一般压力表、压力真空表和真空表检定规程 JJG 52-2013	(-0.1～+60) Mpa	U_{rel}=0.5%		
171	数字压力计	压力	数字压力计检定规程 JJG 875-2005	(-0.1～+60) MPa	U_{rel}= 0.1%		

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172	压力控制器	压力	压力控制器检定规程 JJG 544-2011	(-0.1～+60) MPa	U_{rel}=0.2%		
173	压力变送器	压力	压力变送器检定规程 JJG 882-2004	(-0.1～+60) MPa	U_{rel}=0.1%		
174	扭矩扳子检定仪	扭矩	扭矩扳子检定仪检定规程 JJG 797-2013	(0.04～100)N·m	U_{rel}=0.4%		
175	扭矩扳子	扭矩	扭矩扳子检定规程 JJG 707-2014	(0.001～1000) N·m	U_{rel}=(1.2～1.6)%		
176	测功机	扭矩	测功装置检定规程 JJG 653-2003	（0.01～500）N·m	U_{rel}=0.5%		
		转速		（100～20000）r/min	U_{rel}=0.2%		
177	染色摩擦色牢度仪	转速	染色摩擦色牢度仪校准规范 JJF(纺织) 027-2010	（0～3000）r/min	U=1.2r/min		
		直径		（0～200） mm	U=0.06mm		
		力值		（0～250）N	U_{rel}=1.0%		
		行程		（0～200）mm	U=0.34mm		
178	汗渍色牢度仪	长度	汗渍色牢度仪校准规范 JJF(纺织) 028-2010	（0～200）mm	U=(0.05～0.10)mm		
		力值		(0～300)N	U_{rel}=0.2%		
179	织物起毛起球仪	长度	织物起毛起球仪检定规程 JJG(纺织) 040-1990	Φ(0～200)mm	U=(0.05～0.2)mm		
		转速		(0～3000)r/min	U_{rel}=1.0%		

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179	织物起毛起球仪	力值	织物起毛起球仪检定规程 JJG(纺织) 040-1990	(100～500)cN	U_{rel}=0.1%		
180	织物平磨仪	转速	织物平磨仪校准规范 JJF(纺织) 036-2012	(0～1000)r/min	U_{rel}=1.0%		
		质量		（0.5～6200）g	U=0.4g		
181	插头线静态拉力试验机	速度	插头类专用仪器校准方法 Q/CTIC 104-2008	(0～300) mm/min	U_{rel}=0.2%		
		力值		(0.4～9.072) kg	U=(0.8～1.3)g		
182	插头滚筒试验机	转速	插头类专用仪器校准方法 Q/CTIC 104-2008	(0～5)r/min	U=0.4r/min		
183	插头引线弯折试验机	质量	插头类专用仪器校准方法 Q/CTIC 104-2008	（10~500）g	U=(0.13～0.31)g		
		角度		（0~90）°	U=0.3°		
		转速		(20～1000)r/min	U=（0.6～2）r/min		
184	MIT 式耐折度仪	弹簧 张力	MIT 式耐折度仪检定规程 JJG(轻工) 59-2000	（0～980）N	U=0.16N		
		角度		(0～180)°	U=11′		
		转速		（0～3000）r/min	U=3.4 r/min		
185	初粘性测试仪	角度	初粘性测试仪校准方法 Q/CTIC 109-2008	(0～90)°	U=0.4° ～1.0°		
		直径		(0～200)mm	U=0.006mm		

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186	筛网张力计	力值/位移	筛网张力计校准方法 Q/CTIC 112-2008	(7～60)N/cm	U_{rel}=1.0%		
187	磨（摩）擦试验机	质量	磨（摩）擦试验机校准方法 Q/CTIC 02015-2014	（0.002～30）kg	U≈（0.16～2.1） g		
		速度		（0～1000）mm/min	U_{rel}= 0.6 %		
		行程		（0～1000）mm	U_{rel}= 0.5 %		
		力值		（0～2）kN	U_{rel}= 0.6 %		
		转速		（0～10000）r/min	U_{rel}= 0.7 %		
		计数器		(0～50000)r	U≈0.6r		
188	皮革动态防水试验机	转速	皮革动态防水试验机校准方法 Q/CTIC 105-2008	50 r/min	U≈0.6 r/min		
189	纸带摩擦试验机	荷重	纸带摩擦试验机校准方法 Q/CTIC 02012-2010	(0～500)g	U=(1.1～2.4)g		
		转速		（0~1000）r/min	*U=0.8r/min*		
190	锐利边缘测试仪	质量	锐利边缘测试仪校准方法 Q/CTIC 102-2008	(453.6～907.2)g	U≈(7～22)g		
		长度		（1.0～25）mm	U≈0.011mm		
		速度		（23±4）mm/s	U≈0.9mm/s		

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191	涂膜铅笔划痕硬度仪	荷重	涂膜铅笔划痕硬度仪校准方法 Q/CTIC 02010-2010	（0～6200）g	U=(2.2～4.0)g		
		角度		（0～90）°	U=0.35°		
192	水泥胶砂搅拌机	转速	水泥胶砂搅拌机检定规程 JJG(建材) 102-1999	(57～295)r/min	U=0.8r/min		
193	水泥净浆搅拌机	转速	水泥净浆搅拌机检定规程 JJG(建材) 104-1994	（10~999）r/min	U=1.0r/min		
		长度		(10～285)mm	U=(0.02～0.06)mm		
194	水泥胶砂流动度测定仪	长度	水泥胶砂流动度测定仪检定规程 JJG(建材) 126-1999	（18~285）mm	U=(0.02～0.04)mm		
		质量		(3440~3460)g	U=0.3 g		
195	破裂强度试验机	压力	纸与纸板耐破度仪检定规程 JJG(轻工) 61-2000	（0~10）MPa	U_{rel}=0.13%		
196	AKRON 磨耗试验机	力值	橡胶阿克隆磨耗试验机检定规程 JJG(化工) 103-1991	（0.5～200）N	U=0.10N		
		转速		（0～1000）r/min	U=0.6r/min		
		硬度		(0～100)HA	U=1.2HA		
		尺寸		(0～200)mm	U=0.06mm		
197	漆膜摆式硬度计	质量	漆膜摆式硬度计校准方法 Q/CTIC 100-2008	(120～500）g	U=0.07g		
		时间		（250～440）s	U=1.5s		

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198	落锤式织物撕裂仪	力值	落锤式织物撕裂仪检定规程 JJG(纺织) 060-1995	（0.5～64）N	U=0.4d		
199	纸张平滑度仪	真空	纸与纸板平滑度仪检定规程 JJG(轻工) 62-2000	（-0.1～0）MPa	U_{rel}=0.15%		
200	胶带保持力试验仪	质量	砝码检定规程 JJG 99-2006	≤1000g	U=0.6g		
201	流量显示仪	流量	流量积算仪检定规程 JJG 1003-2005	DC（0～5）V，（1～5）V，（0～10）mA，（4～20）mA	U_{rel}=0.2%		
202	数字式电动振动试验系统	加速度	数字式电动振动试验系统检定规程 JJG 948-1999	(0.1-103)m/s^2	U_{rel}=(2.4～3.0)%		
		频率		(1～5000)Hz	U_{rel}=(0.12～0.14)%		
203	电动式振动试验台	加速度	电动式振动试验台检定规程 JJG 190-1997	(0~1000)m/s^2	U_{rel}=(2.4～3.0)%		
		频率		(1～5000)Hz	U_{rel}=(0.12～0.14)%		
204	机械式振动试验台	位移	机械式振动试验台检定规程 JJG 189-1997	5μm ～100mm	U_{rel}=4.0%		
		加速度		(0~1000)m/s^2	U_{rel}=(2.4～3.0)%		
		频率		(1～2000)Hz	U_{rel}=(0.12～0.14)%		
205	公路运输模拟试验台	位移	公路运输模拟试验台校准规范 JJF 1271-2010	5μm ～100mm	U_{rel}=4.2%		
		加速度		(0~1000)m/s^2	U_{rel}=4.5%		
		频率		(0.5～400)Hz	U_{rel}=(0.2～0.3)%		

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206	冲击试验台	加速度	落体式冲击试验台检定规程 JJG 541-2005	(0～25000)m/s^2	U_{rel}=4.5%		
		脉宽		(0.5～30)ms	U_{rel}=3.5%		
207	弹簧冲击器	能量	弹簧冲击器校准方法 Q/CTIC 02025-2013	(0～2) J	U_{rel}=3.6%		
208	温度.湿度.振动综合环境试验系统	温度	温度.湿度.振动综合环境试验系统校准规范 JJF 1270-2010	(-80～+180)℃	U=0.3℃		
		湿度		(0～100)%RH	U=1.5%RH		
		加速度		(0~1000)m/s^2	U_{rel}=(2.4～3.0)%		
209	pH(酸度)计	酸度	实验室pH(酸度)计检定规程 JJG 119-2005	(0~14) pH	电计：U=0.001pH		
					仪器：U=0.006pH		
		电压		(-2000~2000)mV	U=0.2mV		
210	电导率仪	电导率	电导率仪检定规程 JJG 376-2007	电计 ：(0.05~10^5) μS	U_{rel}=0.3 %		
				仪器：(0~10^5) μS/cm	U_{rel}=0.4%		
211	木材含水率测量仪	含水率	木材含水率测量仪检定规程 JJG 986-2004	(4~36)%	U=0.4%		
212	熔体流动速率仪	负荷	熔体流动速率仪检定规程 JJG 878-1994	(0~200)g	U=0.1g		
				(200~1000)g	U=0.5g		
				(1~30)kg	U=1g		

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212	熔体流动速率仪	流动速率	熔体流动速率仪检定规程 JJG 878-1994	(0~25) g/10min	U_{rel}=4 %~7%		
213	玻璃量器	容量	常用玻璃量器检定规程 JJG 196-2006	（0.1~10）mL	U=0.003mL		
				（10~100）mL	U=0.01mL		
				（100~500）mL	U=0.05mL		
				（500~2000）mL	U=0.12mL		
214	移液器	容量	移液器检定规程 JJG 646-2006	(10~100)μL	U=0.4μL		
				(100~1000)μL	U=1μL		
				(1000~10000)μL	U=5μL		
				(10~50)mL	U=25μL		
215	密度计	密度	工作玻璃浮计检定规程 JJG 42-2011	(0.650~1.400)g/cm^3	U=0.0005 g/cm^3		
216	波美计	波美度	工作玻璃浮计检定规程 JJG 42-2011	(0~40) Bh	U=0.04Bh		
217	旋转粘度计	动力粘度	旋转粘度计检定规程 JJG 1002-2005	(1~10) mPa·s	U_{rel}=3%		
				(20~100) mPa·s	U_{rel}=2%		
				(200~1.5×10^6) mPa·s	U_{rel}=1%		
218	流出杯式粘度计	运动粘度	流出杯式粘度计检定规程 JJG 743-1991	(2~700) mm^2/s	U_{rel}=2%		
219	恩氏粘度计	时间	恩氏粘度计检定规程 JJG 742-1991	(51±1)s	U=0.2s		

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220	涂料粘度计	粘度	涂料粘度计校准方法 Q/CTIC 007-2008	(2~600) mm^2/s	U_{rel}=2%		
221	涂料比重杯	容量	涂料比重杯校准方法 Q/CTIC 008-2008	(10~100)mL	U=0.02mL		
				(100~1000)mL	U=0.08mL		
222	大气采样器	流量	大气采样器检定规程 JJG 956-2013	(0.02~6.0)L/min	U_{rel}=2%		
223	粉尘采样器	流量	粉尘采样器检定规程 JJG 520-2005	(0.2~150)L/min	U_{rel}=2%		
224	尘埃粒子计数器	尘埃粒子数	尘埃粒子计数器校准规范 JJF 1190-2008	(0.3~0.5) μm	U_{rel}=15%		
225	洁净工作台	洁净度	洁净工作台校准方法 Q/CTIC 006-2007	(100~10000)级	U_{rel} =15%		
226	可见分光光度计	波长	紫外、可见、近红外分光光度计检定规程 JJG 178-2007	(360~810)nm	U=0.3nm		
		透射比		(0~100)%	U_{rel} =0.6%		
227	单光束紫外可见分光光度计	波长	紫外、可见、近红外分光光度计检定规程 JJG 178-2007	(195~810)nm	U=0.3nm		
		透射比		(0~100)%	U_{rel} =0.6%		
228	双光束紫外可见分光光度计	波长	紫外、可见、近红外分光光度计检定规程 JJG 178-2007	(195~810)nm	U=0.3nm		
		透射比		(0~100)%	U_{rel} =0.6%		
229	荧光分光光度计	检出限	荧光分光光度计检定规程 JJG 537-2006	≤1×10^{-8} g/mL	U=0.003 μg/mL		

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230	原子荧光光度计	检出限	非色散原子荧光光度计检定规程 JJG 939-2009	As,Sb,Hg		U=0.1ng		
231	原子吸收分光光度计	检出限	原子吸收分光光度计检定规程 JJG 694-2009	火焰法测铜		U=0.005 μg/ml		
				石墨炉法测镉		U=0.5pg		
232	冷原子吸收测汞仪	检测限	测汞仪检定规程 JJG 548-2004	Hg ≤1.0ng/mL		U=0.2ng/mL		
233	冷原子荧光测汞仪	检测限	测汞仪检定规程 JJG 548-2004	Hg≤0.1 ng/mL		U=0.03 ng/mL		
234	定碳定硫分析仪	浓度	定碳定硫分析仪检定规程 JJG 395-1997	C:(0.001~0.010)%		U=0.0004%		
				C:(0.01~0.10)%	C:(0.010~0.0100)%	U=0.003%		
				C:(0.1~1.0)%	C:(0.100~1.000)%	U=0.005%		
				C:(1.00~3.00)%		U=0.02%		
				S:(0.001~0.010)%	S:(0.001~0.010)%	U=0.0005%		
				S:(0.01~0.010)%	S:(0.01~0.010)%	U=0.002%		
				S:(0.1~0.3)%		U=0.004%		
235	化学需氧量(COD)测定仪	浓度	化学需氧量(COD)测定仪检定规程 JJG 975-2002	(0~5000)mg/L		U_{rel} =3%		
236	气相色谱仪	灵敏度	气相色谱仪检定规程 JJG 700-1999	热导检测器(TCD)		U_{rel}=6%		
		检测限		火焰离子化检测器（FID）		U_{rel}=5%		

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236	气相色谱仪	检测限	气相色谱仪检定规程 JJG 700-1999	火焰光度检测器（FPD）			
				氮磷检测器（NPD）			
				电子俘获检测器（ECD）			
237	液相色谱仪	浓度	液相色谱仪检定规程 JJG 705-2014	紫外可见光检测器、二极管阵列检测器 ≤5×10^{-8}g/mL	U_{rel} =9%		
				荧光检测器 ≤5×10^{-9}g/mL	U_{rel} =9%		
				示差折光检测器 ≤5×10^{-6}g/mL	U_{rel} =10%		
				蒸发光散射检测器 ≤5×10^{-6}g/mL	U_{rel} =10%		
238	液相色谱质谱联用仪	信噪比	液相色谱-质谱联用仪校准规范 JJF 1317-2011	≥10：1	U_{rel}=11%		
239	气相色谱-质谱联用仪	信噪比	台式气相色谱-质谱联用仪校准规范 JJF 1164-2006	≥10：1	U_{rel}=5%		

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240	离子色谱仪	浓度	离子色谱仪检定规程 JJG 823-2014	Cl^-: ≤0.02μg/mL	U_{rel}=14%		
				Li^+: ≤0.02μg/mL	U_{rel}=14%		
				NO_2^-: ≤0.02μg/mL	U_{rel}=14%		
				I^-: ≤0.02μg/mL	U_{rel}=14%		
241	发射光谱仪	检出限	发射光谱仪检定规程 JJG 768-2005	ICP：Zn 、Ni 、Mn 、Cr 、Cu 、Ba	U_{rel}=6%		
				直读光谱仪：C、Si、Mn、Cr、Ni、Mo、V	U_{rel}=8%		
242	X-荧光光谱仪	检出限	X-荧光光谱仪校准方法 Q/CTIC 003-2007	(0~1000)mg/kg	U_{rel}=7%		
243	测色色差计	色度	测色色差计检定规程 JJG 595-2002	Y：（10~96） x，y：（0.1~0.9）	U(Y)=1.7, U(x),U(y)=0.006		
244	白度计	白度	白度计检定规程 JJG 512-2002	65~90	U=1.7		
245	手持糖量（含量）计及手持折射仪	浓度	手持糖量(含量)计及手持折射仪检定规程 JJG 820-1993	(0~80)%	U=0.5d,(d 为分度值)		
		折射率		1.3330~1.5200	U=0.0003		

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246	阿贝折射仪	折射率	阿贝折射仪检定规程 JJG 625-2001	1.33~1.68	U=8×10^{-5}		
247	光泽度计	光泽度	镜向光泽度计、光泽度板检定规程 JJG 696-2002	(0~100)光泽单位	U=1.4 光泽单位		
248	浊度计	浊度	浊度计检定规程 JJG 880-2006	(0~400) NTU	U_{rel}=4%		
249	旋光仪及旋光糖量计	旋光度	旋光仪及旋光糖量计检定规程 JJG 536-1998	-45° ~+45°	U=0.003°		
		糖度		(-20~+105)° Z	U=0.01° Z		
250	光密度计	光密度	漫透射视觉密度计检定规程 JJG 920-1996	0~4	U=0.02		
251	雾度计	雾度	雾度计校准规范 JJF 1303-2011	0~35	U=0.3		
		透射比		(70~90)%	U=0.8%		
252	澄明度检测仪	光照度	澄明度检测仪校准规范 JJF 1287-2011	(0~4000) lx	U_{rel}=9%		
253	标准光源对色灯箱	色温	标准光源箱校准规范 JJF(纺织) 055-2012	(2000~9500)K	U_{rel}=1.4%		
		光照度		(0~9000)lx	U_{rel}=8%		
254	傅立叶变换红外光谱仪	波数	傅立叶红外光谱仪校准规范 JJF 1319-2011	(800~3100)cm^{-1}	U=0.3 cm^{-1}		
255	酶标仪	波长	酶标分析仪检定规程 JJG 861-2007	(360~700)nm	U=1.2nm		
		吸光度		(0.000~4.000)	U=0.006 吸光度		
256	火焰光度计	检出限	火焰光度计检定规程 JJG 630-2007	Na: (0~1)mmol/L	U=0.001 mmol/L		

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256	火焰光度计	检出限	火焰光度计检定规程 JJG 630-2007	K: (0~0.200)mmol/L	U=0.0005 mmol/L		
257	水中油份浓度分析仪	浓度	水中油份浓度分析仪检定规程 JJG 950-2012	(0~1000)mg/L	U_{rel} =4%		
258	四极杆电感耦合等离子体质谱仪 ICP-MS	检出限	四极杆电感耦合等离子体质谱仪校准规范 JJF 1159-2006	Be≤30 ng/L，In≤10 ng/L，Bi≤10 ng/L	U_{rel} =3%		
259	卡氏、库仑水份测定仪	浓度	卡尔·费休库仑法微量水分测定仪检定规程 JJG 1044-2008	(0~100)%	U_{rel}=3%		
260	自动电位滴定仪	电位	自动电位滴定仪检定规程 JJG 814-1993	(-2000~2000)mV	U=0.2mV		
261	水质综合分析仪	酸度	水质综合分析仪检定规程 JJG 715-1991	(0~14)pH	U=0.01 pH		
		溶解氧		(0~15)mg/L	U=0.2mg/L		
		电导率		(0.0~1999) μS	U_{rel} =0.4%		
		浊度		(0~400)NTU	U_{rel} =4%		
		电位		(-2000~2000)mV	U=0.2mV		
262	激光粒度分析仪	粒径	激光粒度分析仪校准规范 JJF 1211-2008	(2~5) μm	U_{rel}=5%		
				(5~20) μm	U_{rel}=4%		
				(20~125) μm	U_{rel}=3%		

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263	差示扫描量热仪	温度	示差扫描热量计检定规程 JJG 936-2012	(120~450)℃	In：U=0.4℃ Sn：U=0.3℃ Pb：U=0.6℃ Zn：U=0.7℃		
		热量		(23~108)J/g	In：U=0.5J/g Sn：U=0.4J/g Pb：U=0.5J/g Zn：U=1.4J/g		
264	总有机碳分析仪	浓度	总有机碳分析仪检定规程 JJG 821-2005	（0~1000）mg/L	U_{rel}=2.5%		
265	CO、CO2 红外线气体分析仪	浓度	CO、CO2 红外线气体分析器检定规程 JJG 635-2011	CO:(0~500)μmol/mol CO_2:(0~5000)μmol/mol	U_{rel} =2.5%		
266	可燃气体检测报警器	浓度	可燃气体检测报警器检定规程 JJG 693-2011	(0~100)%LEL	U_{rel}=2.8%		
267	CO 检测报警器	浓度	一氧化碳检测报警器检定规程 JJG 915-2008	(0~1000) μmol/mol	U_{rel}=2.5%		
268	SO2 气体检测仪	浓度	二氧化硫气体检测仪检定规程 JJG 551-2003	(0~100) μmol/mol	U_{rel}=2.6%		
269	H2S 气体检测仪	浓度	硫化氢气体检测仪检定规程 JJG 695-2003	(0~100) μmol/mol	U_{rel}=2.6%		
270	亮度计	亮度	亮度计检定规程 JJG 211-2005	(0.06～1500)cd/m^2	U_{rel}=3%		
271	彩色亮度计	光亮度	亮度计检定规程 JJG 211-2005	(10～2000)cd/m^2	U_{rel}=3%		
		色度		x(0.1586～0.7310) y(0.0199～0.4688)	U_x=0.009, U_y=0.008		

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272	光照度计	光照度	光照度计检定规程 JJG 245-2005	(1～5)lx	U_{rel}=1.4%		
272	光照度计	光照度	光照度计检定规程 JJG 245-2005	(5～50)lx	U_{rel}=1.2%		
				(50～100)lx	U_{rel}=1.1%		
				(100～500)lx	U_{rel}=1%		
				(500～3000)lx	U_{rel}=0.9%		
273	光纤光功率计	光功率	通信用光功率计检定规程 JJG 965-2013 光纤光功率计检定规程 JJG 813-2013	(27～10)dBm	U=0.2dB		
				(10～0)dBm	U=0.06dB		
				(0～-20)dBm	U=0.08dB		
				(-20～-40)dBm	U=0.13dB		
				(-40～-60)dBm	U=0.3dB		
				(-60～-80)dBm	U=0.5dB		
274	UV 能量计	能量	紫外辐射照度计检定规程 JJG 879-2002	(0.1～2000)mJ/cm^2	U_{rel} =16%		
275	紫外辐射照度计	辐照度	紫外辐射照度计检定规程 JJG 879-2002	(0.001～1.2)mW/cm^2	U_{rel}=14%		
276	偏置电流源	直流电流	直流标准电流源检定规程 JJG(航天) 38-1987	±(1mA～20A)	U_{rel}=0.2%		

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277	直流稳压电源	直流电压	直流稳压电源检定规程 JJG(航天) 6-1999 直流标准电流源检定规程 JJG(航天) 38-1987	0.01V～0.1V		U_{rel}=0.01%		
				0.1V～1V		U_{rel}=0.018%		
				1V～10V		U_{rel}=0.15%		
				10V～100V		U_{rel}=0.18%		
				100V～1000V		U_{rel}=0.019%		
		直流电流		0.001A～0.01A		U_{rel}=0.36%		
				0.01A～0.1A		U_{rel}=0.16%		
				0.1A～1A		U_{rel}=0.26%		
				1A～3A		U_{rel}=0.26%		
				3A～10A		U_{rel}=0.40%		
				10A～30A		U_{rel}=0.14%		
				30A～300A		U_{rel}=0.58%		
		纹波电压		(0～100)mV	20Hz～2MHz	U=0.20%+0.004mV		
278	交流稳压电源(变频电源)	交流电压	精密交流电压校准源检定规程 JJG 410-1994 交流标准电流源检定规程 JJG(航天) 51-1999	10mV～10V	40Hz～1kHz	U_{rel}=0.2%		
				10V～100V		U_{rel}=0.3%		
				100V～1000V		U_{rel}=0.2%		
		交流电流		1mA～0.1A		U_{rel}=0.2%		

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278	交流稳压电源(变频电源)	交流电流	精密交流电压校准源检定规程 JJG 410-1994 交流标准电流源检定规程 JJG(航天) 51-1999	0.1A～10A	40Hz～1kHz	U_{rel}=0.3%		
		交流功率		0.1W～10W		U_{rel}=0.3%		
				10W～10kW		U_{rel}=0.4%		
		频率		40Hz～1kHz		U_{rel}=0.11%		
279	数字式三用表校验仪	直流电压	数字式三用表校验仪检定规程 JJG(电子) 02003-1988	10mV～100mV		U_{rel}=0.06%		
				100mV～1V		U_{rel}= 0.012%		
				1V～10V		U_{rel}= 0.014%		
				10V～100V		U_{rel}= 0.016%		
				100V～1000V		U_{rel}= 0.018%		
		交流电压		1mV～100mV	40Hz～1kHz	U_{rel}=0.072%		
				100mV～1V		U_{rel}=0.074%		
				1V～10V		U_{rel}=0.080%		
				10V～100V		U_{rel}= 0.091%		
				100V～1000V		U_{rel}=0.085%		
279	数字式三用表校验仪	直流电流	数字式三用表校验仪检定规程 JJG(电子) 02003-1988	0.1μA～10μA		U_{rel}=0.12%		
				10μA～100μA		U_{rel}= 0.013%		

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279	数字式三用表校验仪	直流电流	数字式三用表校验仪检定规程 JJG(电子) 02003-1988	100μA～1000μA		U_{rel}=0.015%		
				1mA～10mA		U_{rel}=0.015%		
				10mA～100mA		U_{rel}=0.016%		
				100mA～1000mA		U_{rel}=0.021%		
				1A～10A		U_{rel}=0.053%		
		交流电流		10μA～100μA	45Hz～100Hz	U_{rel}=0.11%		
				100μA～1000μA		U_{rel}=0.10%		
				1mA～10mA		U_{rel}=0.10%		
				10mA～100mA		U_{rel}=0.10%		
				100mA～1000mA		U_{rel}=0.10%		
				1A～10A		U_{rel}=0.15%		
		电阻		0Ω～10Ω		U_{rel}= 0.003%		
				10Ω～100Ω		U_{rel}= 0.0020%		
				100Ω～1000Ω		U_{rel}= 0.0013%		
				1kΩ～10kΩ		U_{rel}=0.0013%		
				10kΩ～100kΩ		U_{rel}= 0.0013%		
				100kΩ～1000kΩ		U_{rel}= 0.0020%		
				1MΩ～10MΩ		U_{rel}=0.007%		
				10MΩ～100MΩ		U_{rel}=0.06%		

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280	多功能校准源	直流电压	直流标准电压源检定规程 JJG 445-1986	1mV～10mV		U_{rel}=0.0048%		
				10mV～100mV		U_{rel}=0.0046%		
				100mV～1V		U_{rel}=0.0015%		
				1V～10V		U_{rel}=0.0012%		
				10V～100V		U_{rel}=0.0016%		
				100V～1000V		U_{rel}=0.0020%		
		交流电压	精密交流电压校准源检定规程 JJG 410-1994	1mV～10mV	40Hz～1kHz	U_{rel}=0.17%～0.06%		
					1kHz～20kHz	U_{rel}=0.18%～0.06%		
				10mV～100mV	40Hz～1kHz	U_{rel}=0.036%～0.018%		
					1kHz～20kHz	U_{rel}=0.042%～0.022%		
				100mV～1V	40Hz～1kHz	U_{rel}=0.034%～0.012%		
					1kHz～20kHz	U_{rel}=0.042%～0.022%		
				1V～10V	40Hz～1kHz	U_{rel}=0.034%～0.016%		
					1kHz～20kHz	U_{rel}=0.044%～0.026%		
280	多功能校准源	交流电压	精密交流电压校准源检定规程 JJG 410-1994	10V～100V	40Hz～1kHz	U_{rel}=0.029%～0.027%		
					1kHz～20kHz	U_{rel}=0.08%～0.06%		
				100V～1000V	40Hz～1kHz	U_{rel}=0.09%～0.08%		
					1kHz～20kHz	U_{rel}=0.098%～0.078%		

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280	多功能校准源	直流电流	直流标准电流源检定规程 JJG(航天) 38-1987	0.1μA～10μA		U_{rel}=0.031%～0.012%		
				10μA～100μA		U_{rel}=0.016%～0.009%		
				100μA～1000μA		U_{rel}=0.0092%～0.0044%		
				1mA～10mA		U_{rel}=0.0096%～0.0045%		
				10mA～100mA		U_{rel}=0.015%～0.006%		
				100mA～1000mA		U_{rel}=0.031%～0.007%		
				1A～10A		U_{rel}=0.068%～0.022%		
		交流电流	交流数字电流源检定规程 JJG(航天) 51-1999	10μA～100μA	45Hz～100Hz	U_{rel}=0.068%～0.023%		
					100Hz～5kHz	U_{rel}=0.068%～0.024%		
				100μA～1mA	45Hz～100Hz	U_{rel}=0.45%～0.25%		
					100Hz～5kHz	U_{rel}=0.35%～0.13%		
280	多功能校准源	交流电流	交流数字电流源检定规程 JJG(航天) 51-1999	1mA～10mA	45Hz～100Hz	U_{rel}=0.30%～0.08%		
					100Hz～5kHz	U_{rel}=0.31%～0.11%		
				10mA～100mA	45Hz～100Hz	U_{rel}=0.33%～0.13%		
					100Hz～5kHz	U_{rel}=0.30%～0.08%		
				100mA～1A	45Hz～100Hz	U_{rel}=0.35%～0.16%		
					100Hz～5kHz	U_{rel}=0.068%～0.032%		

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280	多功能校准源	交流电流	交流数字电流源检定规程 JJG(航天) 51-1999	1A～10A	45Hz～100Hz	U_{rel}=0.068%～0.033%		
					100Hz～5kHz	U_{rel}=0.38%～0.17%		
		电阻	直流电阻器检定规程 JJG 166-1993	0Ω～10Ω		U_{rel}=0.012%～0.005%		
				10Ω～100Ω		U_{rel}=0.015%～0.005%		
				100Ω～1kΩ		U_{rel}=0.0028%～0.0022%		
				1kΩ～10kΩ		U_{rel}=0.0028%～0.0022%		
				10kΩ～100kΩ		U_{rel}=0.0028%～0.0022%		
				100kΩ～1MΩ		U_{rel}=0.0050%～0.0028%		
				1MΩ～10MΩ		U_{rel}=0.022%～0.009%		
				10MΩ～100MΩ		U_{rel}=0.10%～0.08%		
				100MΩ～1000MΩ		U_{rel}=0.015%～0.004%		
281	数字万用表	直流 电压	直流数字电压表检定规程 JJG 315-1983	(1～330)mV		U=0.0020%+1μV		
				0.33V～3.29999V		U= 0.0011%+2μV		
				3.3V～32.9999V		U= 0.0012%+15μV		
				33V～332.9999V		U= 0.0019%+1.5mV		
				330V～1020V		U= 0.0018%+1.5mV		

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281	数字万用表	交流 电压	交流数字电压表检定规程 JJG(航天) 34-1999	1mV～32.9993mV	(10～45)Hz	U=0.08%+6μV		
					45Hz～10kHz	U=0.15%+6μV		
					(10～20)kHz	U=0.2%+6μV		
					(20～50)kHz	U=0.1%+6μV		
					(50～100)kHz	U=0.35%+12μV		
					(100～500)kHz	U=0.8%+50μV		
				33mV～329.999mV	(10～45)Hz	U=0.03%+8μV		
					45Hz～10kHz	U=0.013%+8μV		
					(10～20)kHz	U=0.015%+8μV		
					(20～50)kHz	U=0.035%+8μV		
					(50～100)kHz	U=0.08%+32μV		
					(100～500)kHz	U=0.2%+70μV		
281	数字万用表	交流电压	交流数字电压表检定规程 JJG(航天) 34-1999	330mV～3.29999V	(10～45)Hz	U=0.03%+50μV		
					45Hz～10kHz	U=0.012%+25μV		
					(10～20)kHz	U=0.019%+50μV		
					(20～50)kHz	U=0.03%+50μV		
					(50～100)kHz	U=0.07%+13mV		
				330mV～3.29999V	(100～500)kHz	U=0.24%+0.60mV		

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281	数字万用表	交流电压	交流数字电压表检定规程 JJG(航天) 34-1999	3.3V～32.9999V	(10～45)Hz	U=0.03%+0.65mV		
					45Hz～10kHz	U=0.012%+25μV		
					(10～20)kHz	U=0.024%+0.60mV		
					(20～50)kHz	U=0.035%+0.60mV		
					(50～100)kHz	U=0.09%+1.6mV		
				33V～329.999V	45Hz～1kHz	U=0.019%+2mV		
					(1～10)kHz	U=0.02%+6mV		
					(10～20)kHz	U=0.025%+6mV		
					(20～50)kHz	U=0.03%+6mV		
					(50～100)kHz	U=0.2%+50mV		
281	数字万用表	交流电压	交流数字电压表检定规程 JJG(航天) 34-1999	330V～1020V	45Hz～1kHz	U=0.03%+0.65mV		
					(1～5)kHz	U=0.025%+10mV		
					(5～10)kHz	U=0.03%+10mV		
		直流电流	直流数字电流表检定规程 JJG 598-1989	(1～329.999)μA		U=0.015%+0.02μA		
				330μA～3.29999mA		U=0.01%+0.03μA		
				3.3mA～32.9999mA		U=0.01%+0.2μA		

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281	数字万用表	直流电流	直流数字电流表检定规程 JJG 598-1989	33mA～329.999mA		U=0.01%+2μA		
				330mA～1.09999A		U=0.02%+40 μA		
				1.1A～2.99999A		U=0.038%+40 μA		
				3A～10.99999A		U=0.05%+0.3 3mA		
				11A～20.5A		U=0.1%+0.75 mA		
		交流电流	交流数字电流表检定规程 JJG(航天) 35-1999	(29～329.99) μA	(10～20)Hz	U=0.2%+1μA		
					(20～45)Hz	U=0.15%+0.1 μA		
					45Hz～1kHz	U=0.13%+0.1 μA		
					(1～5)kHz	U=0.3%+0.15 μA		
					(5～10)kHz	U=0.8%+0.2μ A		
					(10～30)kHz	U=0.8%+0.2μ A		
281	数字万用表	交流电流	交流数字电流表检定规程 JJG(航天) 35-1999	0.33mA～3.2999mA	(10～20)Hz	U=0.2%+15μA		
					(20～45)Hz	U=0.13%+0.1 μA		
					45Hz～1kHz	U=0.13%+0.1 μA		
					(1～5)kHz	U=0.2%+0.2μ A		
					(5～10)kHz	U=0.5%+0.3μ A		
					(10～30)kHz	U=1.0%+0.6μ A		

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281	数字万用表	交流电流	交流数字电流表检定规程 JJG(航天) 35-1999	3.3mA～32.999mA	(10～20)Hz	U=0.18%+2μA		
				3.3mA～32.999mA	(20～45)Hz	U=0.09%+2μA		
					45Hz～1kHz	U=0.04%+2μA		
					(1～5)kHz	U=0.08%+2μA		
					(5～10)kHz	U=0.2%+3μA		
					(10～30)kHz	U=0.4%+4μA		
				33mA～329.99mA	(10～20)Hz	U=0.18%+20μA		
					(20～45)Hz	U=0.09%+20μA		
					45Hz～1kHz	U=0.04%+20μA		
					(1～5)kHz	U=0.10%+50μA		
					(5～10)kHz	U=0.2%+0.10mA		
					(10～30)kHz	U=0.4%+0.20mA		
281	数字万用表	交流电流	交流数字电流表检定规程 JJG(航天) 35-1999	0.33A～1.09999A	(10～45)Hz	U=0.18%+0.10mA		
					45Hz～1kHz	U=0.05%+0.10mA		
					(1～5)kHz	U=0.6%+0.10mA		
					(5～10)kHz	U=2.5%+5.0mA		
				1.1A～2.99999A	(10～45)Hz	U=0.18%+0.10mA		
					45Hz～1kHz	U=0.05%+0.10mA		

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281	数字万用表	交流电流	交流数字电流表检定规程 JJG(航天) 35-1999	1.1A～2.99999A	(1～5)kHz	U=0.6%+0.10 mA		
				1.1A～2.99999A	(5～10)kHz	U=2.5%+5.0 mA		
				3A～10.9999A	(10～45)Hz	U=0.06%+2.0 mA		
					45Hz～1kHz	U=0.10%+0.20mA		
					(1～5)kHz	U=3.0%+2.0 mA		
				11A～20.5A	(45～100)Hz	U=0.12%+5.0 mA		
					100Hz～1kHz	U=0.15%+5.0 mA		
					(1～5)kHz	U=3.0%+5.0 mA		
281	数字万用表	电阻	直流数字欧姆表检定规程 JJG 724-1991	0.1Ω～329.9999Ω		U=0.0028%+0.002Ω		
				330Ω～1.099999kΩ		U=0.0028%+0.02Ω		
				33kΩ～109.9999kΩ		U=0.0028%+1Ω		
				110kΩ～329.9999kΩ		U=0.0032%+10Ω		
				330kΩ～1.099999MΩ		U=0.0032%+10Ω		
				1.1MΩ～3.299999MΩ		U=0.006%+0.15kΩ		
				3.3MΩ～10.99999MΩ		U=0.013%+0.25kΩ		

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281	数字万用表	电阻	直流数字欧姆表检定规程 JJG 724-1991	11MΩ～32.99999MΩ		U=0.025%+2.5 kΩ		
				33MΩ～109.9999MΩ		U=0.05%+3.0 kΩ		
				110MΩ～329.9999MΩ		U=0.3%+0.10 MΩ		
				330MΩ～1100MΩ		U=1.5%+0.50 MΩ		
282	数据采集器	直流电压	直流数字电压表检定规程 JJG 315-1983	1mV～330mV		U_{rel}=0.0040%		
				0.33V～3.3V		U_{rel}=0.0017%		
				3.3V～33V		U_{rel}=0.0016%		
				33V～330V		U_{rel}=0.0023%		
				330V～1000V		U_{rel}=0.0032%		
282	数据采集器	交流电压	交流数字电压表检定规程 JJG(航天) 34-1999	1mV ～ 33mV	45Hz ～ 10kHz	U_{rel}=0.080%		
				33mV～330mV	45Hz ～ 10kHz	U_{rel}=0.024%		
				0.33V～3.3V	45Hz ～ 10kHz	U_{rel}=0.017%		
				3.3V～33V	45Hz ～ 10kHz	U_{rel}=0.020%		
				33V～330V	45Hz ～ 10kHz	U_{rel}=0.024%		
				330V～1000V	45Hz ～ 10kHz	U_{rel}=0.036%		
		直流电流	直流数字电流表检定规程 JJG 598-1989	1μA～330μA		U_{rel}=0.040%		
				0.33mA～3.3mA		U_{rel}=0.015%		

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282	数据采集器	直流电流	直流数字电流表检定规程 JJG 598-1989	3.3mA～33mA		U_{rel}=0.014%		
				33mA～330mA		U_{rel}=0.014%		
				0.33A～3A		U_{rel}=0.028%		
				3A～11A		U_{rel}=0.062%		
		交流电流	交流数字电流表检定规程 JJG(航天) 35-1999	29μA～330μA	45Hz～1kHz	U_{rel}=0.13%		
				0.33mA～3.3mA		U_{rel}=0.13%		
				3.3mA～33mA		U_{rel}=0.069%		
				33mA～330mA		U_{rel}=0.069%		
				0.33A～3A		U_{rel}=0.081%		
				3A～11A		U_{rel}=0.092%		
282	数据采集器	电阻	直流数字欧姆表检定规程 JJG 724-1991	0Ω～110Ω		U_{rel}=0.0051%		
				110Ω～330Ω		U_{rel}=0.0053%		
				330Ω～1.1kΩ		U_{rel}=0.0035%		
				1.1kΩ～3.3kΩ		U_{rel}=0.0053%		
				3.3kΩ～11kΩ		U_{rel}=0.0035%		
				11kΩ～33kΩ		U_{rel}=0.0054%		
				33kΩ～110kΩ		U_{rel}=0.0035%		
				110kΩ～330kΩ		U_{rel}=0.0059%		
				330kΩ～1.1MΩ		U_{rel}=0.004%		

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282	数据采集器	电阻	直流数字欧姆表检定规程 JJG 724-1991	1.1MΩ～3.3MΩ	U_{rel}=0.010%		
				3.3MΩ～11MΩ	U_{rel}=0.016%		
				11MΩ～33MΩ	U_{rel}=0.055%		
				33MΩ～110MΩ	U_{rel}=0.068%		
		温度	数字温度指示调节仪检定规程 JJG 617-1996	(-200～-100)℃ (K型)	U=0.28℃		
				(-100～-25)℃(K型)	U=0.15℃		
				(-25～120)℃(K型)	U=0.12℃		
				(120～1000)℃(K型)	U=0.22℃		
				(1000～1300)℃(K型)	U=0.35℃		
283	电流表、电压表、电阻表（指针万用表）	直流电压	电流表、电压表、功率表、及电阻表检定规程 JJG 124-2005	1mV～0.1V	U_{rel}=0.8%～0.2%		
				0.1V～0.25V	U_{rel}=1.6%～0.3%		
				0.25V～2.5V	U_{rel}=1.6%～0.3%		
				2.5V～10V	U_{rel}=0.8%～0.2%		
				10V～50V	U_{rel}=3.3%～0.3%		
				50V～250V	U_{rel}=3.3%～0.3%		
				250V ～1000V	U_{rel}=0.8%～0.2%		

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283	电流表、电压表、电阻表（指针万用表）	交流电压	电流表、电压表、功率表、及电阻表检定规程 JJG 124-2005	1mV～10V	（45Hz～1kHz）	U_{rel}=1.6%～0.3%		
				10V～50V		U_{rel}=3.3%～0.3%		
				50V～250V		U_{rel}=1.6%～0.3%		
				250V～1000V		U_{rel}=1.6%～0.3%		
		直流电流		1μA～50μA		U_{rel}=1.6%～0.3%		
				0.05mA～2.5mA		U_{rel}=1.6%～0.3%		
				2.5mA～25mA		U_{rel}=1.6%～0.3%		
				0.025A～0.25A		U_{rel}=1.6%～0.3%		
				0.25A～10A		U_{rel}=1.6%～0.3%		
283	电流表、电压表、电阻表（指针万用表）	交流电流	电流表、电压表、功率表、及电阻表检定规程 JJG 124-2005	1μA～50μA	（45Hz～1kHz）	U_{rel}=1.6%～0.3%		
				0.05mA～2.5mA		U_{rel}=1.6%～0.3%		
				2.5mA～25mA		U_{rel}=1.6%～0.3%		
				0.025A～0.25A		U_{rel}=1.6%～0.3%		
				0.25A～10A		U_{rel}=1.6%～0.3%		
		电阻		1mΩ～110MΩ		U_{rel}=0.8%		
284	钳形电流表	电流	钳形电流表校准规范 JJF 1075-2001	16.5mA～164.995mA	DC～60Hz	U_{rel}=0.6%		
				165mA～1.64995A		U_{rel}=0.1%		
				1.65A～16.4995A				

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284	钳形电流表	电流	钳形电流表校准规范 JJF 1075-2001	16.5A～165A	DC～60Hz			
				165A～1000A		U_{rel}=0.2%		
285	数字功率计	交流功率	交流数字功率表检定规程 JJG 780-1992	(0.33～1000)V	(45～65)Hz	U_{rel}=0.09%		
				(90～329.99)mA				
				(0.33～1000)V		U_{rel}=0.12%		
				(0.33～0.8999)A	(45～65)Hz	U_{rel}=0.12%		
				(0.33～1000)V		U_{rel}=0.10%		
				(0.9～2.1999)A				
				(0.33～1000)V		U_{rel}=0.13%		
				(2.2～2.4999)A				
				(0.33～1000)V		U_{rel}=0.11%		
				(4.5～20.5)A				
286	电参数测量仪	交流电压	交流数字功率表检定规程 JJG 780-1992	(3.3～33)mV	(10～45)Hz	U=0.12%+9μV		
					45Hz～10kHz	U=0.023%+9μV		
					(10k～20k)Hz	U=0.03%+9μV		
					(20k～50k)Hz	U=0.15%+9μV		
					(50k～100k)Hz	U=0.53%+18μV		
					(100k～500k)Hz	U=1.2%+75μV		

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286	电参数测量仪	交流电压	交流数字功率表检定规程 JJG 780-1992	(33～330)mV	(10～45)Hz	U=0.045%+12μV		
					45Hz～10kHz	U=0.02%+12μV		
					(10k～20k)Hz	U=0.023%+12μV		
					(20k～50k)Hz	U=0.053%+12μV		
					(50k～100k)Hz	U=0.12%+48μV		
					(100k～500k)Hz	U=0.3%+0.11mV		
				(0.33～3.3)V	(10～45)Hz	U=0.045%+75μV		
					45Hz～10kHz	U=0.017%+30μV		
					(10k～20k)Hz	U=0.029%+75μV		
				(0.33～3.3)V	(20k～50k)Hz	U=0.045%+75μV		
					(50k～100k)Hz	U=0.11%+0.19mV		
286	电参数测量仪	交流电压	交流数字功率表检定规程 JJG 780-1992	(0.33～3.3)V	(100k～500k)Hz	U=0.36%+0.9mV		
				(3.3～33)V	(10～45)Hz	U=0.045%+0.98mV		
					45Hz～10kHz	U=0.017%+0.3mV		
					(10k～20k)Hz	U=0.036%+0.98mV		
					(20k～50k)Hz	U=0.053%+0.98mV		
					(50k～100k)Hz	U=0.14%+1.6mV		
				(33～330)V	(10～45)Hz	U=0.029%+3mV		
					45Hz～10kHz	U=0.03%+9mV		

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286	电参数测量仪	交流电压	交流数字功率表检定规程 JJG 780-1992	(33～330)V	(10k～20k)Hz	U=0.038%+9mV		
					(20k～50k)Hz	U=0.045%+9 mV		
					(50k～100k)Hz	U=0.3%+75mV		
				(330～1000)V	(10～45)Hz	U=0.045%+15 mV		
					45Hz～10kHz	U=0.038%+15 mV		
					(10k～20k)Hz	U=0.045%+15 mV		
		交流电流		(29～330)μA	(10～20)Hz	U=0.3%+0.15 μA		
					(20～45)Hz	U=0.23%+0.15 μA		
					45Hz～1kHz	U=0.19%+0.15 μA		
286	电参数测量仪	交流电流	交流数字功率表检定规程 JJG 780-1992	(29～330)μA	1kHz～5kHz	U=0.45%+0.23 μA		
					5kHz～10kHz	U=0.12%+0.3 μA		
					10kHz～30kHz	U=0.12%+0.3 μA		
				(0.33～3.3)mA	(10～20)Hz	U=0.3%+0.23 μA		
					(20～45)Hz	U=0.19%+0.15 μA		
					45Hz～1kHz	U=0.15%+0.15 μA		
					1kHz～5kHz	U=0.3%+0.3 μA		
					5kHz～10kHz	U=0.75%+0.36 μA		

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286	电参数测量仪	交流电流	交流数字功率表检定规程 JJG 780-1992	(0.33～3.3)mA	10kHz～30kHz	U=1.5%+0.9 μA		
				(3.3～33)mA	(10～20)Hz	U=0.27%+3 μA		
					(20～45)Hz	U=0.14%+3 μA		
					45Hz～1kHz	U=0.06%+3 μA		
					1kHz～5kHz	U=0.12%+3 μA		
					5kHz～10kHz	U=0.3%+3.6 μA		
					10kHz～30kHz	U=0.6%+6 μA		
286	电参数测量仪	交流电流	交流数字功率表检定规程 JJG 780-1992	(33～330)mA	(10～20)Hz	U=0.27%+30 μA		
					(20～45)Hz	U=0.14%+30 μA		
					45Hz～1kHz	U=0.06%+30 μA		
					1kHz～5kHz	U=0.15%+75 μA		
				(33～330)mA	5kHz～10kHz	U=0.3%+0.15 mA		
					10kHz～30kHz	U=0.6%+0.3 mA		
				(0.33～1.1)A	(10～45)Hz	U=0.27%+0.15mA		
					45Hz～1kHz	U=0.075%+0.15mA		
					1kHz～5kHz	U=0.9%+0.15 mA		
					5kHz～10kHz	U=3.8%+7.5 mA		
				(1.1～3.3)A	(10～45)Hz	U=0.27%+0.10mA		
					45Hz～1kHz	U=0.075%+0.15mA		

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286	电参数测量仪	交流电流	交流数字功率表检定规程 JJG 780-1992	(1.1～3.3)A	1kHz～5kHz	U=0.9%+0.15 mA		
					5kHz～10kHz	U=3.8%+7.5 mA		
				(3.3～11)A	(10～45)Hz	U=0.09%+3mA		
					45Hz～1kHz	U=0.15%+3mA		
					1kHz～5kHz	U=4.5%+3mA		
286	电参数测量仪	交流电流	交流数字功率表检定规程 JJG 780-1992	(11～20)A	45Hz～100Hz	U=0.18%Ix+7.5mA		
					100Hz～1kHz	U=0.23%Ix+7.5mA		
					1kHz～5kHz	U=4.5%Ix+7.5 mA		
		交流功率		(10～99)mW	(20～45)Hz	U=0.25%+0.05mW		
					45Hz～1kHz	U=0.18%+0.05mW		
					1kHz～5kHz	U=0.5%+0.06 mW		
					5kHz～10kHz	U=1.2%+0.10 mW		
				(99～990)mW	(20～45)Hz	U=0.19%+0.05mW		
					45Hz～1kHz	U=0.16%+0.08mW		
					1kHz～5kHz	U=0.3%+0.10 mW		
					5kHz～10kHz	U=0.7%+0.15 mW		
				(0.99～9.9)W	(20～45)Hz	U=0.19%+0.5 mW		
					45Hz～1kHz	U=0.15%+0.5 mW		
					1kHz～5kHz	U=0.12%+0.5 mW		

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286	电参数测量仪	交流功率	交流数字功率表检定规程 JJG 780-1992	(0.99～9.9)W	5kHz～10kHz	U=0.3%+0.8 mW		
286	电参数测量仪	交流功率	交流数字功率表检定规程 JJG 780-1992	(9.9～99)W	(20～45)Hz	U=0.14%+5mW		
					45Hz～1kHz	U=0.15%+5mW		
					1kHz～5kHz	U=0.15%+12 mW		
					5kHz～10kHz	U=0.3%+60mW		
				(99～330)W	(10～45)Hz	U=0.27%+60 mW		
					45Hz～1kHz	U=0.07%+60 mW		
					1kHz～5kHz	U=0.9%+60mW		
					5kHz～10kHz	U=3.5%+60mW		
				(330～990)W	(10～45)Hz	U=0.27%+60 mW		
					45Hz～1kHz	U=0.07%+60 mW		
					1kHz～5kHz	U=0.9%+60mW		
					5kHz～10kHz	U=7.5%+60mW		
				(0.99～3.3)kW	(10～45)Hz	U=0.09%+1.2 W		
					45Hz～1kHz	U=0.15%+0.12W		
					1kHz～5kHz	U=4.5%+0.6W		
286	电参数测量仪	交流功率	交流数字功率表检定规程 JJG 780-1992	(3.3～20)kW	45Hz～100Hz	U=0.2%+3W		
					100Hz～1kHz	U=0.13%+3W		
					1kHz～5kHz	U=4.5%+3W		

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286	电参数测量仪	功率因素	交流数字功率表检定规程 JJG 780-1992	cosΦ：0～1	（40Hz～10kHz）	U=0.3%+0.0003		
		频率		40Hz～10kHz		U_{rel}=0.06%		
287	电子负载	电压	直流电子负载校准规范 JJF 1462-2014	（0.1～1）V		U_{rel}＝0.0046%		
				（1～10）V		U_{rel}＝0.0043%		
				（10～100）V		U_{rel}＝0.0057%		
				（100～1000）V		U_{rel}＝0.0065%		
		电流		10mA～1A		U_{rel}＝0.005%		
				1A～10A		U_{rel}＝0.01%		
				10A～30A		U_{rel}＝0.03%		
				30～300A		U_{rel}＝0.04%		
		电阻		1Ω～100kΩ		U_{rel}＝0.04%		
		功率		1mW～20W		U_{rel}＝0.02%		
				20W～1kW		U_{rel}＝0.03%		
				1kW～10kW		U_{rel}＝0.04%		
288	工频单相相位表	相位角	工频单相相位表检定规程 JJG 440-2008	-180° ～0°		U_{rel}=0.18%		
				0° ～180°				
289	频率表	频率	频率表检定规程 JJG 603-2006	10 Hz～500kHz		U_{rel}=0.003%		
290	绕组温升带电测试仪	直流电阻	直流低电阻表检定规程 JJG 837-2003 直流数字式欧姆表检定规程 JJG 724-1991	10mΩ		U_{rel}=0.05%		
				100mΩ		U_{rel}=0.05%		

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290	绕组温升带电测试仪	直流电阻	直流低电阻表检定规程 JJG 837-2003 直流数字式欧姆表检定规程 JJG 724-1991	0.1Ω～2Ω	U_{rel}=0.10%～0.06%		
				2Ω～20Ω	U_{rel}=0.11%～0.03%		
				20Ω～200Ω	U_{rel}=0.09%～0.01%		
				0.2kΩ～2kΩ			
				2kΩ～20kΩ	U_{rel}=0.09%～0.06%		
				20kΩ～100kΩ	U_{rel}=0.11%～0.02%		
291	直流低电阻表	电阻	直流低电阻表检定规程 JJG 837-2003	1mΩ～100mΩ	U_{rel}=0.05%		
				0.1Ω～2Ω	U_{rel}=0.10%～0.06%		
				2Ω～20Ω	U_{rel}=0.11%～0.03%		
				20Ω～200Ω	U_{rel}=0.09%～0.01%		
				0.2kΩ～2kΩ			
				2kΩ～20kΩ	U_{rel}=0.09%～0.06%		
				20kΩ～100kΩ	U_{rel}=0.11%～0.02%		
				100kΩ～10MΩ	U_{rel}=1.6%		
292	接地电阻表	电阻	接地电阻表检定规程 JJG 366-2004	（0.1～1） Ω	U_{rel}=1.0%		
				（1～10） Ω	U_{rel}=0.5%		
				（10～100） Ω	U_{rel}=0.5%		

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292	接地电阻表	电阻	接地电阻表检定规程 JJG 366-2004	(100～2000) Ω		U_{rel}=0.5%		
293	接地导通电阻测试仪	电阻	接地导通电阻测试仪检定规程 JJG 984-2004	(10～1000)mΩ		U_{rel}=(0.2～0.7)%		
		电流		(1~60)A		U_{rel}=(0.2~6)%		
294	耐电压测试仪	直流电压	耐电压测试仪检定规程 JJG 795-2004	1V～10kV		U_{rel}=1.0%～0.5%		
		交流电压		1V～10kV	50Hz～1kHz	U_{rel}=1.2%～0.6%		
		直流电流		(0.1～100)mA		U_{rel}=0.5%～0.1%		
		交流电流		(0.1～100)mA	50Hz～1kHz	U_{rel}=0.7%～0.3%		
		时间		(1-3600)s		U_{rel}=0.2%		
295	高频耐电压测试仪(匝间耐压)	电压	耐电压测试仪检定规程 JJG 795-2004	(0.1～40)kV	1kHz～10MHz	U_{rel}=2.5%～1.2%		
296	火花试验机	交流电压	火花试验机检定规程 JJG(浙) 84-2006	(0.1～10)kV		U_{rel}=2.2%～1.5%		
				(10～40)kV		U_{rel}=0.6%		
		直流电压		(0.1～10)kV		U_{rel}=1.9%～0.7%		
				(10～40)kV		U_{rel}=0.6%		
297	漏电起痕试验仪	电压	耐电压测试仪检定规程 JJG 795-2004	(0.05～10)kV	(45~60)Hz	U_{rel}=1.2%～0.6%		
		电流		1mA～1A		U_{rel}=0.5%～0.1%		
		时间		(0.1～100)s		U_{rel}=0.5%		

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298	静电腕带/脚盘测试仪	电阻	静电腕带/脚盘测试仪校准规范 JJF(电子) 31502-2010	1kΩ～≤10MΩ	U_{rel}=1.6%		
				10MΩ～≤100MΩ	U_{rel}=1.9%		
				100MΩ～1000MΩ	U_{rel}=2.6%		
299	表面电阻测试仪	电阻	表面电阻测试仪校准规范 JJF 1285-2011	$(10^3$～$10^7)$Ω	U_{rel}=1.1%		
				$(10^7$～$10^{11})$Ω	U_{rel}=1.6%～2.9%		
300	绝缘电阻表	电阻	绝缘电阻表（兆欧表）检定规程 JJG 622-1997	100Ω～10MΩ	U_{rel}=2.0%		
				10MΩ～1GΩ	U_{rel}=2.3%		
				1GΩ～10GΩ	U_{rel}=3.1%		
		电压		(10~1000)V	U_{rel}=0.5%		
				(≥1~5)kV	U_{rel}=1.0%		
301	电子式绝缘电阻表	电阻	电子式绝缘电阻表检定规程 JJG 1005-2005	100Ω ～<10MΩ	U_{rel}=1.1%		
				10MΩ ～<100MΩ	U_{rel}=1.2%		
				100MΩ ～<1GΩ	U_{rel}=1.6%		
				1GΩ ～<10GΩ	U_{rel}=2.8%		
				10GΩ ～100GΩ	U_{rel}=6.0%		
		电压		(10～<1000)V	U_{rel}=0.26%		
				(1000～5000)V	U_{rel}=0.78%		

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302	高阻计	电阻	高绝缘电阻测量仪(高阻计)检定规程 JJG 690-2003	0.1MΩ～10MΩ		U_{rel}=0.3%		
				10MΩ～100MΩ		U_{rel}=0.6%		
				100MΩ～1000MΩ		U_{rel}=1.2%		
				1GΩ～10GΩ		U_{rel}=2.3%		
				10GΩ～100GΩ		U_{rel}=5.8%		
		电压		(10~1000)V		U_{rel}=0.5%		
				(≥1~5)kV		U_{rel}=0.8%		
303	泄漏电流测量仪	电压	泄漏电流测量仪(表)检定规程 JJG 843-2007	1V～1000V		U_{rel}=0.1%~0.8%		
		电流		1μA～10mA	DC~65Hz	U_{rel}=0.1%~0.4%		
				10mA～100mA		U_{rel}=0.1%~0.2%		
304	安规综合测试仪	交流电压	耐电压测试仪检定规程 JJG 795-2004	10mV～10kV (50Hz～1kHz)		U_{rel}=1.2%～0.6%		
		直流电压		10mV～10kV		U_{rel}=1.0%～0.5%		
		交流电流		(0.1～100)mA (50Hz～1kHz)		U_{rel}=0.7%～0.3%		
		直流电流		(0.1～100)mA		U_{rel}=0.5%～0.1%		
		时间		(0.1～3600)s		U_{rel}=0.2%		
		交流电流	泄漏电流测试仪检定规程 JJG 843-2007	(0.1～100)mA (50Hz～1kHz)		U_{rel}=0.7%～0.3%		

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304	安规综合测试仪	直流电流	泄漏电流测试仪检定规程 JJG 843-2007	(0.1～100)mA	U_{rel}=0.5%～0.1%		
		绝缘电阻	电子式绝缘电阻表检定规程 JJG 1005-2005	0.1MΩ～10MΩ	U_{rel}=0.3%		
				10MΩ～100MΩ	U_{rel}=0.6%		
				100MΩ～1000MΩ	U_{rel}=1.2%		
				1GΩ～10GΩ	U_{rel}=2.3%		
				10GΩ～100GΩ	U_{rel}=5.8%		
		电压		(10~1000)V	U_{rel}=0.5%		
				(≥1~5)kV	U_{rel}=1%		
		导通电阻	接地导通电阻测试仪检定规程 JJG 984-2004	(10～50)mΩ	U_{rel}=1.0%～0.3%		
				(50～1000)mΩ	U_{rel}=0.3%		
		导通测试电流		(1~60)A	U_{rel}=0.2%		
305	线材测试仪	电阻(导通电阻、O/S电阻)	直流数字欧姆表检定规程 JJG 724-1991	(0.01～100000)Ω	U_{rel} =0.8%～0.1%		
		绝缘电阻	电子式绝缘电阻表检定规程 JJG 1005-2005	0.1MΩ～10MΩ	U_{rel} =2.0%		
				10MΩ～100MΩ	U_{rel} =2.1%		
				100MΩ～1000MΩ	U_{rel} =2.3%		
		直流电压	耐电压测试仪检定规程 JJG 795-2004	(50～10000)V	U_{rel} =1.2% ～0.1%		

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305	线材测试仪	交流电压	耐电压测试仪检定规程 JJG 795-2004	(50～10000)V	10Hz～20kHz	U_{rel}=1.5% ～0.1%		
306	直流电阻箱	电阻	直流电阻箱检定规程 JJG 982-2003	(0.01～0.1)Ω		U_{rel}=0.54%～0.01%		
				(0.1～1)Ω		U_{rel}=0.06%～0.01%		
				(1～10)Ω				
				(10～100)Ω				
				(100～1000)Ω				
				(1～10)kΩ		U_{rel}=0.01%～0.001%		
				(10～100)kΩ				
307	电容器	电容	标准电容器检定规程 JJG 183-1992	1pF～1000μF	(20Hz～100kHz)	U_{rel}=0.06%		
				1pF～1000μF	(100kHz～2MHz)	U_{rel}=0.15%		
308	电感器	电感	标准电感器检定规程 JJG 726-1991	1μH～10H	(20Hz～100kHz)	U_{rel}=0.06%		
				1μH～10H	(100kHz～2MHz)	U_{rel}=0.18%		
309	LCR 测量仪	电感	GR1658 型 RLC 数字电桥检定规程 JJG(电子) 05020-1988 HP4274A、HP4275A 型多频 LCR 表检定规程 JJG(电子) 05014-1988	1μH～100mH	100Hz～100kHz	U_{rel}=0.06%		
				1H	100Hz～1kHz	U_{rel}=0.12%		
		电容		1pF～1000μF	100Hz～100kHz	U_{rel}=0.06%		

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309	LCR 测量仪	电阻	GR1658 型 RLC 数字电桥检定规程 JJG(电子) 05020-1988 HP4274A、HP4275A 型多频 LCR 表检定规程 JJG(电子) 05014-1988	10mΩ	100Hz～100kHz	U_{rel}=0.06%		
				100mΩ				
				0.1Ω～1Ω		U_{rel} =0.60%～0.10%		
				1Ω～10Ω		U_{rel} =0.15%		
				10Ω～100Ω		U_{rel}=0.21%～0.07%		
				0.1kΩ～1kΩ				
				1kΩ～10kΩ				
				10kΩ～100 kΩ				
				100kΩ～1MΩ				
		电压		1mV～5V	10Hz～20kHz	U_{rel}=0.4%～0.1%		
					20kHz～50kHz	U_{rel}=0.7%～0.2%		
					50kHz～100kHz	U_{rel}=1.2%～0.2%		
		频率		100Hz～100kHz		$U_{rel}=1\times10^{-5}$		
310	变压器综合测试仪	频率	直流低电阻表检定规程 JJG 837-2003	100Hz～≤1kHz		$U_{rel}=1\times10^{-5}$		
				1kHz～≤100kHz				

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序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围		扩展不确定度（k=2）	限制说明	备注
310	变压器综合测试仪	电压	直流低电阻表检定规程 JJG 837-2003	1mV～≤1V		U_{rel}=0.11%		
				1V～≤5V		U_{rel}=0.11%～0.14%		
		直流电阻		0.01Ω～≤0.1Ω		U_{rel}=0.14%～1.2%		
				0.1Ω～≤1Ω		U_{rel}=0.23%～1.2%		
				1Ω～≤10Ω		U_{rel}=0.06%～0.23%		
				10Ω～≤100Ω		U_{rel}=0.01%～0.06%		
				100Ω～≤100kΩ		U_{rel}=0.01%		
		电感	GR1658 型 RLC 数字电桥检定规程 JJG(电子) 05020-1988 HP4274A、HP4275A 型多频 LCR 表检定规程 JJG(电子) 05014-1988	1μH～≤1H		U_{rel}=0.02%		
		电容		1pF～≤100μF		U_{rel}=0.03%		
		匝比	匝比相位测量仪校准方法 Q/CTIC 004-2006	1～≤10000		U_{rel}=0.4%		
311	匝比相位测量仪	匝比	匝比相位测量仪校准方法 Q/CTIC 004-2006	1～10000	30Hz～100kHz	U_{rel}=0.5%		
312	线圈圈数测量仪	线圈圈数	YG 系列匝数仪检定规程 SJ 20241-1993	(1～≤10)圈		U_{rel}=12%		
				(10～≤100)圈		U_{rel}=1.2%～12%		
				(100～≤1000)圈		U_{rel}=0.16%～1.2%		

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序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围	扩展不确定度（k=2）	限制说明	备注
312	线圈圈数测量仪	线圈圈数	YG 系列匝数仪检定规程 SJ 20241-1993	(1000～≤10000)圈	U_{rel}=0.10%～0.16%		
				(10000～≤20000)圈	U_{rel}=0.10%		
313	剩余电流保护器测试仪(RCD 测试仪)	电压	剩余电流动作保护器动作特性检测仪校准规范 JJF 1283-2011	(50～300)V	U=0.85V		
		电流		5mA~1500mA	U_{rel}=0.14%～2.3%		
		跳闸时间		(10～5000)ms	U_{rel}=3.1%～0.03%		
314	晶体管特性图示仪	电压	半导体管特性图示仪校准规范 JJF 1236-2010	(0.01～500)V/div	U_{rel}=1.0%		
		电流		1μA/div～2μA/div	U_{rel}=1.1%		
				2μA/div～1A/div	U_{rel}=1.0%		
315	高压(静电)电压表(棒)	交流电压	高压静电电压表检定规程 JJG 494-2005	(10～2000)V (45~65)Hz	U_{rel}=1.5%～2.8%		
				(2～10)kV (45~65)Hz	U_{rel}=2.1%～3.9%		
		直流电压		(10～2000)V	U_{rel} =0.8%～2.1%		
				(2～10)kV	U_{rel} =1.4%～3.3%		
316	离子风机	离子平衡电压	离子风机（风扇）校准方法 Q/CTIC 02027-2013	(0～±1100)V	U=2.2V		
		衰减时间		(0.1～999.9)s	U=0.3s		

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317	热工仪表校验仪	电压	SR501 型测温仪表检定仪检定规程 JJG(粤) 001-1991	(-199～0) mV	U=42 μV～4.1 μV		
				(0～+199) mV	U=4.1 μV～42 μV		
		电阻		(1～400) Ω	U=0.5mΩ		
318	电子秒表/时间间隔测量仪(定时器)	时间	秒表检定规程 JJG 237-2010	(0～99999)s	U=0.06s～2s		
		日差		±(0～99.99)s/d	U=0.04s/d		
319	机械秒表	时间	秒表检定规程 JJG 237-2010	(0.01～900)s	U=0.06s		
320	钟表分析仪	日差	校表仪检定规程 JJG 488-2008	(-21.09～+21.09)s/d	U=0.02s/d		
321	通用计数器/频率计	频率	通用计数器检定规程 JJG 349-2001 微波频率计数器检定规程 JJG 841-2012	10Hz～26.5GHz	U_{rel}=2×10^{-9}		
		灵敏度		10Hz～12.4GHz	U=0.3dB		
				12.4GHz～26.5GHz	U=0.7dB		
322	驻极体传声器测试仪	输出信号频率	驻极体传声器测试仪校准规范 JJF 1145-2006	(10～10000)Hz	U_{rel}=0.04%		
		直流馈电电压		100 mV～100V	U_{rel}=0.03%		
		直流馈电电流		(0.01～100)mA	U_{rel}=0.18%		

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322	驻极体传声器测试仪	内部负载电阻	驻极体传声器测试仪校准规范 JJF 1145-2006	10Ω～100kΩ	U_{rel}=0.15%		
		声压灵敏度级		(-60～-30) dB	U=0.28dB		
		级程衰减		(-20～20) dB	U=0.28dB		
323	示波器校准仪	电压	示波器校准仪检定规程 JJG 278-2002	1mV～100mV	$U_{rel}=5\times10^{-4}$～1×10^{-4}		
				100mV～200V	$U_{rel}=1\times10^{-4}$		
		时基		1ns～5s	$U_{rel}=1\times10^{-7}$		
324	示波器/示波表	垂直偏转因数	模拟示波器检定规程 JJG 262-1996	1mV/div～5mV/div	U_{rel}=1.5%～0.8%		
				5mV/div～10V/div	U_{rel} =0.8%		
		水平偏转因数		1ns/div～10s/div	U_{rel} =0.4%		
		带宽/频响		50kHz～2GHz	U_{rel}=1.5%		
		上升时间		≥150ps	U_{rel} =1.2%		
		过冲		0.1%~20%	U_{rel}=1.2%		
		电阻		800kΩ～1.2MΩ	U_{rel}=0.12%		
		校准信号频率		1mV～100V / 10Hz~20kHz	U_{rel}=0.12%		
		校准信号幅度		10Hz～1MHz	$U_{rel}=2\times10^{-5}$		
325	数字示波器	垂直偏转幅度	数字存储示波器校准规范 JJF 1057-1998	1mV/div～5mV/div	U_{rel}=1.2%～0.3%		
				5mV/div～10V/div	U_{rel}=0.3%		

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325	数字示波器	扫描时间	数字存储示波器校准规范 JJF 1057-1998	0.5ns/div～10s/div		U_{rel}=0.06%		
		带宽/频响		50kHz～2GHz		U_{rel}=1.5%		
		上升时间		≥150ps		U_{rel} =10%		
		过冲		0.1%~20%		U_{rel}=1.2%		
		阻抗		800kΩ～1.2MΩ		U_{rel}=0.12%		
				40Ω～90Ω		U_{rel}=0.12%		
		校准信号频率		1mV～100V	10Hz~20kHz	U_{rel}=0.12%		
		校准信号幅度		10Hz～1MHz		U_{rel}= 2×10^{-5}		
326	高压探头	衰减比	示波器高压探头校准规范 JJF(电子) 30304-2008	1～1000		U_{rel}=1.3%		
327	示波器电流探头	衰减系数	示波器电流探头校准规范 JJF(电子) 30305-2010	1～1000		U_{rel}=1.2%		
		交流电流		≤1000A		U_{rel}=1.2%		
		直流电流		≤1000A		U_{rel}=1.2%		
328	示波器差分探头	衰减系数	示波器差分探头校准规范 JJF(电子) 30306-2010	1～1000		U_{rel}=1.2%		
329	超高频毫伏表	电平	射频电压表检定规程 JJG 308-2013	1mV～300V	20kHz～1MHz	U_{rel}=0.3%		
				0dBm～+30dBm	1MHz～1GHz	U=0.25dB		
				-40dBm～0dBm	1MHz～1GHz	U=0.3dB		
		频响		20kHz～1MHz		U_{rel}=3%		

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329	超高频毫伏表	频响	射频电压表检定规程 JJG 308-2013	1MHz～1GHz		U=0.5dB		
330	电子电压表	电压	低频电子电压表检定规程 JJG 782-1992	1mV～330V	(45Hz～500kHz)	见下表		
				(26~-30)dBm	(500kHz～1MHz)	U=0.15dB		
	电压测量 CMC							
	电压	频率						
		10Hz~45Hz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz~500kHz*		
	1mV~32.999mV	0.093%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	*0.92%+58μV*		
	33mV~329.999mV	0.037%+9μV	0.023%+9μV	0.043%+9μV	0.093%+37μV	*0.23%+81μV*		
	0.33V~3.29999V	0.037%+58μV	0.026%+69μV	0.037%+58μV	0.082%+144μV	*0.27%+0.7mV*		
	3.3V~32.999V	0.037%+0.8mV	0.031%+0.7mV	0.043%+0.7mV	0.10%+1.8mV	／		
	33V~330V	0.026%+2.3mV	0.032%+6.9mV	0.037%+6.9mV	0.23%+57.7mV	／		
331	失真度测量仪	频率	失真度测量仪检定规程 JJG 251-1997	20Hz～500kHz		*Urel=0.05%*		
		电压测量		1mV~300V		*见下表 1*		
		失真度测量		(0.001～30)%		*见下表 2*		
331	表 1：电压测量 CMC							
	电压	频率						
		10Hz~45Hz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz~500kHz*		
	1mV~32.999mV	0.093%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	*0.92%+58μV*		
	33mV~329.999mV	0.037%+9μV	0.023%+9μV	0.043%+9μV	0.093%+37μV	*0.23%+81μV*		

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331	0.33V~3.29999V	0.037%+58μV	0.026%+69μV	0.037%+58μV	0.082%+144μV	*0.27%+0.7mV*		
	3.3V~32.999V	0.037%+0.8mV	0.031%+0.7mV	0.043%+0.7mV	0.10%+1.8mV	／		
	33V~330V	0.026%+2.3mV	0.032%+6.9mV	0.037%+6.9mV	0.23%+57.7mV	／		
	表 2：失真度测量 CMC							
	失真度	频率						
		20Hz，200Hz	400Hz，1kHz	10kHz	20kHz	*50kHz*	100kHz	
	30%～0.1%	2.3%±0.00034%	1.2%±0.00034%	2.3%±0.00034%	2.3%±0.00034%	*3.5%±0.00034%*	5.8%±0.00034%	
	0.1%～0.03%	2.3%±0.00034%	1.2%±0.00034%	2.3%±0.00034%	2.3%±0.00034%	／	／	
	0.03%～0.01%	5.8%±0.00034%	5.8%±0.00034%	5.8%±0.00034%	／	／	／	
	0.01%～0.003%	12%±0.00034%	12%±0.00034%	／	／	／	／	
332	扫频信号发生器	频率	低频信号发生器检定规程 JJG 602-1996 UHF 电视扫频仪试行检定规程 JJG 442-1986	20Hz～1GHz		U_{rel}=1×10^{-6}		
		电平		80 mV ～100V	10Hz～20kHz	U_{rel}=0.2%		
				80 mV ～100V	20kHz～100kHz	U_{rel}=0.8%		
				(0～30dBm)	150kHz～1GHz	U=0.22dB		
				(0～-100dBm)	150kHz～1GHz	U=0.34dB		
		失真度		(0.01～100)%	10Hz～20Hz	U_{rel} =23%		
				(0.01～100)%	20Hz～20kHz	U_{rel} =14%		

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332	扫频信号发生器	失真度	低频信号发生器检定规程 JJG 602-1996 UHF 电视扫频仪试行检定规程 JJG 442-1986	(0.01～100)%	20kHz～100kHz	U_{rel}=25%		
333	低频信号发生器	频率	低频信号发生器检定规程 JJG 602-1996	10Hz～1MHz		U_{rel}= 2×10^{-5}		
		电压		1mV～100V	10Hz~20kHz	U_{rel}=0.12%		
				1mV～100V	20kHz~50kHz	U_{rel}=0.2%		
				1mV～100V	50kHz~100kHz	U_{rel}=0.8%		
				1mV～100V	100kHz~300kHz	U_{rel}=5.2%		
				(30 ~ 26)dBm	300kHz~1MHz	U=0.25dB		
				(26~ -10)dBm		U=0.22dB		
				(-10~ -130)dBm		U=0.22dB~0.30dB		
		失真度		>0.03%~100%	20Hz～20kHz	U_{rel}=7.2%		
					20kHz～110kHz	U_{rel}=14%		
				0.005%~0.03%	20Hz～110kHz	U_{rel}=30%		
334	函数信号发生器	频率	函数信号发生器检定规程 JJG 840-1993	1Hz～500MHz		U_{rel} =3×10^{-10}		
		幅度		1mV～100V	10Hz~20kHz	U_{rel}=0.12%		
				1mV～100V	20kHz~50kHz	U_{rel}=0.2%		
				1mV～100V	50kHz~100kHz	U_{rel}=0.8%		

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334	函数信号发生器	幅度	函数信号发生器检定规程 JJG 840-1993	1mV～100V	100kHz~300 kHz	U_{rel}=5.2%		
				(30 ~ 26)dBm	300kHz~500 MHz	U=0.25dB		
				(26~ -10)dBm		U=0.22dB		
				(-10~ -130)dBm		U=0.22dB~0.30dB		
		失真度		>0.03%~100%	20Hz～20kHz	U_{rel}=7.2%		
					20kHz～110kHz	U_{rel}=14%		
				0.005%~0.03%	20Hz～110kHz	U_{rel}=30%		
		谐波		(-80~0)dB	100kHz～500MHz	U=0.70dB		
		调幅度	函数信号发生器检定规程 JJG 840-1993	载波频率	调制频率	调幅范围(5~99)%		
				100kHz~10 MHz	10Hz~10kHz	U_{rel}=1.7%		
				10MHz~26.5 GHz	10Hz~50kHz	U_{rel}=1.2%		
					50kHz~100 kHz	U_{rel}=1.7%		
		调频频偏		载波频率	调制频率	频偏范围(0~500)kHz		
				100kHz~10 MHz	10Hz~10kHz	U_{rel}=1.2%		
				10MHz~26.5 GHz	10Hz~100 kHz	U_{rel}=1.2%		
334	函数信号发生器	调频频偏	函数信号发生器检定规程 JJG 840-1993	10MHz~26.5 GHz	100kHz~200 kHz	U_{rel}=3.5%		

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334	函数信号发生器	调相相移	函数信号发生器检定规程 JJG 840-1993	载波频率	调制频率	相移范围 (0~400)rad		
				100kHz~10 MHz	50Hz~10kHz	U_{rel}=1.2%		
				10MHz~26.5 GHz	50Hz~100kHz	U_{rel}=1.2%		
		调制频率		100Hz~100kHz		U_{rel}=2.2×10^{-5}		
		调制失真度		0.001%~100 % (-100dB~0dB)		U_{rel}=6.9%		
335	音频分析仪	输出频率	音频分析仪检定规程 JJG(电子) 30302-2008 音频分析仪校准规范 JJF 1395-2013	10Hz～300kHz		U_{rel}= 2×10^{-5}		
		输出电压		1mV～100V	10Hz~20kHz	U_{rel}=0.12%		
				1mV～100V	20kHz~50kHz	U_{rel}=0.2%		
				1mV～100V	50kHz~100 kHz	U_{rel}=0.8%		
				1mV～100V	100kHz~300 kHz	U_{rel}=5.2%		
		输出信号失真度		>0.03%~100%	20Hz～20kHz	U_{rel}=7.2%		
					20kHz～110kHz	U_{rel}=14%		

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<table>
<tr><th>序号</th><th>测量仪器名称</th><th>校准参量</th><th>规范代号（含年号）名称</th><th colspan="2">测量范围</th><th>扩展不确定度（k=2）</th><th>限制说明</th><th>备注</th></tr>
<tr><td rowspan="4">335</td><td rowspan="4">音频分析仪</td><td>输出信号失真度</td><td rowspan="4">音频分析仪检定规程
JJG(电子)
30302-2008
音频分析仪校准规范
JJF 1395-2013</td><td>0.005%~
0.03%</td><td>20Hz～
110kHz</td><td>U_{rel}=30%</td><td rowspan="4"></td><td></td></tr>
<tr><td>频率测量</td><td colspan="2">10Hz～300kHz</td><td>U_{rel}=
3.4×10^{-6}</td><td></td></tr>
<tr><td>交流电压测量</td><td>1mV~330V</td><td>见下表 1</td><td></td><td></td></tr>
<tr><td>失真度测量</td><td>(0.001～
30)%</td><td>见下表 2</td><td></td><td></td></tr>
<tr><td rowspan="11">335</td><td colspan="8">表 1：电压测量 CMC</td></tr>
<tr><td rowspan="2">电压</td><td colspan="7">频率</td></tr>
<tr><td>10Hz~
45Hz</td><td>10kHz~20kHz</td><td>20kHz~50
kHz</td><td>50kHz~10
0
kHz</td><td>100kHz~500k
Hz</td><td rowspan="6"></td><td></td></tr>
<tr><td>1mV~32.999
mV</td><td>0.093%+7 μ
V</td><td>0.027%+7 μ V</td><td>0.11%+7
μ V</td><td>0.40%+14
μ V</td><td>0.92%+58 μ V</td><td></td></tr>
<tr><td>33mV~
329.999mV</td><td>0.037%+9 μ
V</td><td>0.023%+9 μ V</td><td>0.043%+9
μ V</td><td>0.093%+3
7 μ V</td><td>0.23%+81 μ V</td><td></td></tr>
<tr><td>0.33V~
3.29999V</td><td>0.037%+58
μ V</td><td>0.026%+69 μ V</td><td>0.037%+5
8 μ V</td><td>0.082%+1
44
μ V</td><td>0.27%+0.7mV</td><td></td></tr>
<tr><td>3.3V~32.999
V</td><td>0.037%+0.8
mV</td><td>0.031%+0.7mV</td><td>0.043%+0
.7
mV</td><td>0.10%+1.
8mV</td><td>／</td><td></td></tr>
<tr><td>33V~330V</td><td>0.026%+2.3
mV</td><td>0.032%+6.9mV</td><td>0.037%+6
.9
mV</td><td>0.23%+57
.7
mV</td><td>／</td><td></td></tr>
<tr><td colspan="8">表 2：失真度测量 CMC</td></tr>
<tr><td rowspan="2">失真度</td><td colspan="7">频率</td></tr>
<tr><td>20Hz，200Hz</td><td>400Hz，1kHz</td><td>10kHz</td><td>20kHz</td><td>50kHz</td><td>100
kHz</td><td></td></tr>
<tr><td>30%～0.1%</td><td>2.3%±0.00
034%</td><td>1.2%±0.00034%</td><td>2.3%±0.
00034%</td><td>2.3%±0.
00034%</td><td>3.5%±0.000
34%</td><td>5.8%
±0.0
0034%</td><td></td></tr>
</table>

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序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围		扩展不确定度（k=2）	限制说明	备注
335	0.1%～0.03%	2.3%±0.00034%	1.2%±0.00034%	2.3%±0.00034%	2.3%±0.00034%	／	／	
	0.03%～0.01%	5.8%±0.00034%	5.8%±0.00034%	5.8%±0.00034%	／	／	／	
	0.01%～0.003%	12%±0.00034%	12%±0.00034%	／	／	／	／	
336	滤波器	带宽/截止频率	倍频程和1/3倍频程滤波器检定规程 JJG 449-2001	20Hz～100kHz		U_{rel}=3.0×10^{-4}		
				100kHz～6GHz		U_{rel}=1.6×10^{-4}		
		波动度		10Hz～50kHz		U=0.02dB		
				50kHz～100kHz		U=0.07dB		
				100kHz～6GHz		U=0.17dB		
337	调制度测量仪	频率	调制度测量仪校准规范 JJF 1111-2003	150kHz～1GHz		U_{rel}=1×10^{-6}		
		调幅度		(5%～99%)	20Hz～50Hz，50kHz～100kHz	U_{rel}=4%		
				(5%～99%)	50Hz～50kHz	U_{rel}=1.3%		
		调频频偏		50Hz～100kHz	0.4kHz～400kHz	U_{rel}=1.3%		
338	功率计	功率	436A型功率计检定规程 JJG(航天) 22-1987	0.1mW/0.3mW/1mW/3mW/10mW/30mW/100mW		U_{rel}=0.3%		
		输出功率		(-10～20)dBm 0.1MHz～18GHz		U=0.1dB		
339	功率传感器	功率校准因子	小功率座检定规程 GJB/J 3598-1999	100kHz～18GHz		U_{rel} =4.0%		

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339	功率传感器	功率	小功率座检定规程 GJB/J 3598-1999	(10 ～ -70)dBm	100kHz～18GHz	U=0.18dB		
340	信号发生器/数字信号发生器	频率	信号发生器检定规程 JJG 173-2003 数字信号发生器校准规范 JJF 1174-2007	100kHz~26.5GHz		U_{rel} =3×10^{-10}		
		电平		100kHz~4.2 GHz	(30 ~ 26)dBm	U=0.25dB		
					(26 ~ -10)dBm	U=0.22dB		
					(-10 ~ -130)dBm	U=0.22dB~0.30dB		
				4.2GHz~8 GHz	(30 ~ 26)dBm	U=0.31dB		
					(26 ~ -10)dBm	U=0.28dB		
					(-10 ~ -120)dBm	U=0.28dB~0.35dB		
340	信号发生器/数字信号发生器	电平	信号发生器检定规程 JJG 173-2003 数字信号发生器校准规范 JJF 1174-2007	8GHz~12.4 GHz	(30 ~ 26)dBm	U=0.33dB		
					(26 ~ -10)dBm	U=0.30dB		
					(-10 ~ -120)dBm	U=0.30dB~0.37dB		
				12.4GHz~18 GHz	(30 ~ 26)dBm	U=0.41dB		
					(26 ~ -10)dBm	U=0.40dB		
					(-10 ~ -120)dBm	U=0.40dB~0.47dB		

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340	信号发生器/数字信号发生器	电平	信号发生器检定规程 JJG 173-2003 数字信号发生器校准规范 JJF 1174-2007	18GHz~26.5 GHz	(30 ~ 26)dBm	U=0.69dB		
					(26 ~ -10)dBm	U=0.68dB		
					(-10 ~ -120)dBm	U=0.68dB~0.75dB		
		谐波		(-80~0)dB	20Hz～10MHz	U=0.83dB		
					10MHz～3.6GHz	U=0.70dB		
					3.6GHz~8GHz	U=1.3dB		
					8GHz~22GHz	U=1.8dB		
		调幅度		载波频率	调制频率	调幅范围(5~99)%		
				100kHz~10 MHz	10Hz~10kHz	U_{rel}=1.7%		
				10MHz~26.5 GHz	10Hz~50kHz	U_{rel}=1.2%		
					50kHz~100 kHz	U_{rel}=1.7%		
		调频频偏		载波频率	调制频率	频偏范围(0~500)kHz		
				100kHz~10 MHz	10Hz~10kHz	U_{rel}=1.2%		
				10MHz~26.5 GHz	10Hz~100 kHz	U_{rel}=1.2%		
					100kHz~200 kHz	U_{rel}=3.5%		

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340	信号发生器/数字信号发生器	调相相移	信号发生器检定规程 JJG 173-2003 数字信号发生器校准规范 JJF 1174-2007	载波频率	调制频率	相移范围 (0~400)rad		
				100kHz~10 MHz	50Hz~10kHz	U_{rel}=1.2%		
				10MHz~26.5 GHz	50Hz~100kHz	U_{rel}=1.2%		
		调制频率		100Hz~100kHz		U_{rel}=2.2×10^{-5}		
		调制失真度		0.001%~100 % (-100dB~0dB)		U_{rel}=6.9%		
		波形质量因数 Rho		(0~1.000)		U=0.0012		
		EVM		(0~25)%		U=0.29%		
		幅度误差		(0~25)%		U=0.29%		
		相位误差		(0~15)°		U=0.23°		
		频率误差		±30 kHz		U=2.3Hz		
		邻道功率比(ACPR)		(0~80)dBc		U=0.69dB		
		GFSK 误差		(0~5)%		U=3.6kHz		
		DEVM		(0~25)%		U=0.03%		
341	频谱分析仪/矢量信号分析仪	参考频率	矢量信号分析仪校准规范 JJF 1128-2004 频谱分析仪校准规范 JJF 1396-2013	(1/2/5/10)MHz		U_{rel} =3×10^{-9}		
		频率		100kHz~26.5GHz		U_{rel} =3×10^{-9}		

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341	频谱分析仪/矢量信号分析仪	电平	矢量信号分析仪校准规范 JJF 1128-2004 频谱分析仪校准规范 JJF 1396-2013	100kHz~4.2 GHz	(30 ~ 26)dBm	U=0.17dB		
					(26 ~ -10)dBm	U=0.15dB		
					(-10 ~ -130)dBm	U=0.15dB~0.23dB		
341	频谱分析仪/矢量信号分析仪	电平	矢量信号分析仪校准规范 JJF 1128-2004 频谱分析仪校准规范 JJF 1396-2013	4.2GHz~8 GHz	(30 ~ 26)dBm	U=0.39dB		
					(26 ~ -10)dBm	U=0.36dB		
					(-10 ~ -120)dBm	U=0.36dB~0.43dB		
				8GHz~12.4 GHz	(30 ~ 26)dBm	U=0.61dB		
					(26 ~ -10)dBm	U=0.60dB		
					(-10 ~ -120)dBm	U=0.60dB~0.67dB		
				12.4GHz~18 GHz	(30 ~ 26)dBm	U=0.63dB		
					(26 ~ -10)dBm	U=0.62dB		
					(-10 ~ -120)dBm	U=0.62dB~0.69dB		
				18GHz~26.5 GHz	(30 ~ 26)dBm	U=1.4dB		
					(26 ~ -10)dBm	U=1.3dB		

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341	频谱分析仪/矢量信号分析仪	电平	矢量信号分析仪校准规范 JJF 1128-2004 频谱分析仪校准规范 JJF 1396-2013	18GHz~26.5 GHz	(-10 ~ -120)dBm	U=1.4dB		
		扫频宽度		100Hz～20GHz		U_{rel} =0.1%		
		分辨力带宽		1Hz～20MHz		U_{rel} =1%		
		分辨力带宽转换		1Hz～20MHz		U=0.02dB		
341	频谱分析仪/矢量信号分析仪	校准信号频率	矢量信号分析仪校准规范 JJF 1128-2004 频谱分析仪校准规范 JJF 1396-2013	100kHz~4.2GHz		U_{rel} =3×10^{-9}		
		校准信号电平		100kHz~4.2GHz		U=0.15dB		
		衰减器		0~80dB		U=0.02dB		
		本底噪声		100kHz~26.5GHz		U=1.6dB		
		波形质量因数 Rho		(0~1.000)		U=0.0012		
		EVM		(0~25)%		U=0.29%		
		幅度误差		(0~25)%		U=0.29%		
		相位误差		(0~15)°		U=0.23°		
		频率误差		±30 kHz		U=2.3Hz		
		邻道功率比(ACPR)		(0~80)dBc		U=0.69dB		
		GFSK 误差		(0~5)%		U=3.6kHz		
		DEVM		(0~25)%		U=0.03%		
342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	射频信号发生器部分						

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	频率	射频通信测试仪校准规范 JJF 1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF 1204-2008 蓝牙测试仪校准规范 JJF 1278-2011 无线局域网测试仪校准规范 JJF 1277-2011	100kHz~26.5GHz		U_{rel} =3×10^{-10}		
		电平		100kHz~4.2 GHz	(30 ~ 26)dBm	U=0.25dB		
					(26 ~ -10)dBm	U=0.22dB		
					(-10 ~ -130)dBm	U=0.22dB~0.30dB		
				4.2GHz~8 GHz	(30 ~ 26)dBm	U=0.31dB		
					(26 ~ -10)dBm	U=0.28dB		
					(-10 ~ -120)dBm	U=0.28dB~0.35dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	电平	射频通信测试仪校准规范 JJF 1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF 1204-2008 蓝牙测试仪校准规范 JJF 1278-2011 无线局域网测试仪校准规范 JJF 1277-2011	8GHz~12.4 GHz	(30 ~ 26)dBm	U=0.33dB		
					(26 ~ -10)dBm	U=0.30dB		
					(-10 ~ -120)dBm	U=0.30dB~0.37dB		
				12.4GHz~18 GHz	(30 ~ 26)dBm	U=0.41dB		
					(26 ~ -10)dBm	U=0.40dB		
					(-10 ~ -120)dBm	U=0.40dB~0.47dB		
				18GHz~26.5 GHz	(30 ~ 26)dBm	U=0.69dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	电平	射频通信测试仪校准规范 JJF 1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF 1204-2008 蓝牙测试仪校准规范 JJF 1278-2011 无线局域网测试仪校准规范 JJF 1277-2011	18GHz~26.5 GHz	(26 ~ -10)dBm	U=0.68dB		
					(-10 ~ -120)dBm	U=0.68dB~0.75dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调幅度	射频通信测试仪校准规范 JJF 1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF 1204-2008 蓝牙测试仪校准规范 JJF 1278-2011 无线局域网测试仪校准规范 JJF 1277-2011	载波频率	调制频率	调幅范围 (5~99)%		
				100kHz~10 MHz	10Hz~10kHz	U_{rel}=1.7%		
				10MHz~26.5 GHz	10Hz~50kHz	U_{rel}=1.2%		
					50kHz~100 kHz	U_{rel}=1.7%		
		调频频偏		载波频率	调制频率	频偏范围 (0~500)kHz		
				100kHz~10 MHz	10Hz~10kHz	U_{rel}=1.2%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调频频偏	射频通信测试仪校准规范 JJF 1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF 1204-2008 蓝牙测试仪校准规范 JJF 1278-2011 无线局域网测试仪校准规范 JJF 1277-2011	10MHz~26.5 GHz	10Hz~100 kHz	U_{rel}=1.2%		
					100kHz~200 kHz	U_{rel}=3.5%		
		调相相移		载波频率	调制频率	相移范围 (0~400)rad		
				100kHz~10 MHz	50Hz~10kHz	U_{rel}=1.2%		
				10MHz~26.5 GHz	50Hz~100 kHz	U_{rel}=1.2%		
		调制频率		100Hz~100kHz		U_{rel}=2.2×10^{-5}		

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序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围	扩展不确定度（k=2）	限制说明	备注
342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调制失真度	射频通信测试仪校准规范 JJF 1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF 1204-2008 蓝牙测试仪校准规范 JJF 1278-2011 无线局域网测试仪校准规范 JJF 1277-2011	0.001%~100 % (－100dB~0dB)	U_{rel}=6.9%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	波形质量因数 Rho	射频通信测试仪校准规范 JJF 1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF 1204-2008 蓝牙测试仪校准规范 JJF 1278-2011 无线局域网测试仪校准规范 JJF 1277-2011	(0~1.000)	U=0.0012		
		EVM		(0~25)%	U=0.29%		
		幅度误差		(0~25)%	U=0.29%		
		相位误差		(0~15)°	U=0.23°		
		频率误差		±30 kHz	U=2.3Hz		
		邻道功率比(ACPR)		(0~80)dBc	U=0.69dB		
		GFSK 误差		(0~5)%	U=3.6kHz		
		DEVM		(0~25)%	U=0.05%		
		射频信号分析部分					

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	频率测量	射频通信测试仪校准规范 JJF 1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF 1204-2008 蓝牙测试仪校准规范 JJF 1278-2011 无线局域网测试仪校准规范 JJF 1277-2011	100kHz~26.5GHz		U_{rel}=3×10^{-9}		
		电平测量		100kHz~4.2 GHz	(30 ~ 26)dBm	U=0.17dB		
					(26 ~ -10)dBm	U=0.15dB		
					(-10 ~ -130)dBm	U=0.15dB~0.23dB		
				4.2GHz~8 GHz	(30 ~ 26)dBm	U=0.39dB		
					(26 ~ -10)dBm	U=0.36dB		
					(-10 ~ -120)dBm	U=0.36dB~0.43dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	电平测量	射频通信测试仪校准规范 JJF 1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF 1204-2008 蓝牙测试仪校准规范 JJF 1278-2011 无线局域网测试仪校准规范 JJF 1277-2011	8GHz~12.4 GHz	(30 ~ 26)dBm	U=0.61dB		
					(26 ~ -10)dBm	U=0.60dB		
					(-10 ~ -120)dBm	U=0.60dB~0.67dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	电平测量	射频通信测试仪校准规范 JJF 1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF 1204-2008 蓝牙测试仪校准规范 JJF 1278-2011 无线局域网测试仪校准规范 JJF 1277-2011	12.4GHz~18 GHz	(30 ~ 26)dBm	U=0.63dB		
					(26 ~ -10)dBm	U=0.62dB		
					(-10 ~ -120)dBm	U=0.62dB~0.69dB		
				18GHz~26.5 GHz	(30 ~ 26)dBm	U=1.4dB		
					(26 ~ -10)dBm	U=1.3dB		
					(-10 ~ -120)dBm	U=1.4dB		
		调幅度测量		载波频率	调制频率	调幅范围(5~99)%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调幅度测量	射频通信测试仪校准规范 JJF 1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF 1204-2008 蓝牙测试仪校准规范 JJF 1278-2011 无线局域网测试仪校准规范 JJF 1277-2011	100kHz~10 MHz	10Hz~10kHz	U_{rel}=1.7%		
				10MHz~26.5 GHz	10Hz~50kHz	U_{rel}=1.2%		
					50kHz~100 kHz	U_{rel}=1.7%		
		调频频偏测量		载波频率	调制频率	频偏范围(0~500)kHz		
				100kHz~10 MHz	10Hz~10kHz	U_{rel}=1.2%		
				10MHz~26.5 GHz	10Hz~100 kHz	U_{rel}=1.2%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调频频偏测量	射频通信测试仪校准规范 JJF 1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF 1204-2008 蓝牙测试仪校准规范 JJF 1278-2011 无线局域网测试仪校准规范 JJF 1277-2011	10MHz~26.5 GHz	100kHz~200 kHz	U_{rel}=3.5%		
		调相相移测量		载波频率	调制频率	相移范围 (0~400)rad		
				100kHz~10 MHz	50Hz~10kHz	U_{rel}=1.2%		
				10MHz~26.5 GHz	50Hz~100 kHz	U_{rel}=1.2%		
		波形质量因数 Rho 测量		(0~1.000)		U=0.0012		
		EVM 测量		(0~25)%		U=0.29%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	幅度误差测量	射频通信测试仪校准规范 JJF 1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF 1204-2008 蓝牙测试仪校准规范 JJF 1278-2011 无线局域网测试仪校准规范 JJF 1277-2011	(0~25)%	U=0.29%		
		相位误差测量		(0~15)°	U=0.23°		
		频率误差测量		±30 kHz	U=2.3Hz		
		邻道功率比(ACPR)测量		(0~80)dBc	U=0.69dB		
		GFSK 误差测量		(0~5)%	U=3.6kHz		
		DEVM 测量		(0~25)%	U=0.03%		
		音频信号发生器部分					
		输出频率	音频分析仪校准规范 JJF 1395-2013	10Hz～300kHz	U_{rel}= 2×10^{-5}		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	输出电压	音频分析仪校准规范 JJF 1395-2013	1mV～100V	10Hz~20kHz	U_{rel}=0.12%		
				1mV～100V	20kHz~50kHz	U_{rel}=0.2%		
				1mV～100V	50kHz~100kHz	U_{rel}=0.8%		
				1mV～100V	100kHz~300kHz	U_{rel}=5.2%		
		输出信号失真度		>0.03%~100%	20Hz～20kHz	U_{rel}=7.2%		
					20kHz～110kHz	U_{rel}=14%		
				0.005%~0.03%	20Hz～110kHz	U_{rel}=30%		
342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	音频信号分析部分						
		频率测量	音频分析仪校准规范 JJF 1395-2013	10Hz～300kHz		U_{rel}= 3.4×10^{-6}		
		交流电压测量		1mV~330V	见下表 1	/		
		失真度测量		(0.001～30)%	见下表 2	/		
	表 1：电压测量 CMC							
	电压	频率						
		10Hz~45Hz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz~500kHz*		
	1mV~32.999mV	0.093%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	*0.92%+58μV*		
	33mV~329.999mV	0.037%+9μV	0.023%+9μV	0.043%+9μV	0.093%+37μV	*0.23%+81μV*		

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342	0.33V~3.29999V	0.037%+58μV	0.026%+69μV	0.037%+58μV	0.082%+144μV	*0.27%+0.7mV*		
	3.3V~32.999V	0.037%+0.8mV	0.031%+0.7mV	0.043%+0.7mV	0.10%+1.8mV	/		
	33V~330V	0.026%+2.3mV	0.032%+6.9mV	0.037%+6.9mV	0.23%+57.7mV	/		
	表 2：失真度测量 CMC							
	失真度	频率						
		20Hz，200Hz	400Hz， 1kHz	10kHz	20kHz	*50 kHz*	100 kHz	
	30%～0.1%	2.3%±0.00034%	1.2%±0.00034%	2.3%±0.00034%	2.3%±0.00034%	*3.5%±0.00034%*	5.8%±0.00034%	
	0.1%～0.03%	2.3%±0.00034%	1.2%±0.00034%	2.3%±0.00034%	2.3%±0.00034%	/	/	
	0.03%～0.01%	5.8%±0.00034%	5.8%±0.00034%	5.8%±0.00034%	/	/	/	
	0.01%～0.003%	12%±0.00034%	12%±0.00034%	/	/	/	/	
343	屏蔽室(箱)	屏蔽效能(衰减)	电磁屏蔽室屏蔽效能的测量方法 GB/T 12190-2006	(0~110)dB	9kHz~18GHz	*U=1.7dB*		
344	前置放大器	增益	2627 型前置放大器试行检定规程 JJG(电子) 02007-1989	100kHz~4.2GHz	(0~60)dB	*U=0.45dB*		
				4.2GHz~8GHz		*U=0.56dB*		
				8GHz~12.4GHz		*U=0.60dB*		
				12.4GHz~18GHz		*U=0.72dB*		
				18GHz~26.5GHz		*U=1.1dB*		

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345	衰减器	衰减	同轴电阻式衰减器检定规程 JJG 387-2005	100kHz~4.2 GHz	(0~10)dB	*U=0.17dB*		
					(10~120)dB	*U=0.17dB~0.24dB*		
				4.2GHz~8 GHz	(0~10)dB	*U=0.18dB*		
					(10~120)dB	*U=0.18dB~0.25dB*		
				8GHz~12.4 GHz	(0~10)dB	*U=0.18dB*		
					(10~120)dB	*U=0.18dB~0.25dB*		
				12.4GHz~18 GHz	(0~10)dB	*U=0.20dB*		
					(10~120)dB	*U=0.20dB~0.27dB*		
				18GHz~26.5 GHz	(0~10)dB	*U=0.24dB*		
					(10~120)dB	*U=0.24dB~0.31dB*		
346	人工电源网络	阻抗	人工电源网络校准规范 JJG(电子) 30806-2007	(0～100)Ω	9kHz～1MHz	*Urel =2.6%*		
					1MHz～15MHz	*Urel=4.0%*		
					15MHz～100MHz	*Urel =5.4%*		
		电压分压系数		(0～70)dB	9kHz～100MHz	*U=0.58dB*		
347	网络分析仪	频率	网络分析仪校准规范 JJF(电子) 30501-2007	100kHz~26.5GHz		$U_{rel}=3\times10^{-10}$		

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347	网络分析仪	电平	网络分析仪校准规范 JJF(电子) 30501-2007	100kHz~4.2 GHz	(30 ~ 26)dBm	U=0.25dB		
					(26 ~ -10)dBm	U=0.22dB		
					(-10 ~ -130)dBm	U=0.22dB~0.30dB		
				4.2GHz~8 GHz	(30 ~ 26)dBm	U=0.31dB		
					(26 ~ -10)dBm	U=0.28dB		
					(-10 ~ -120)dBm	U=0.28dB~0.35dB		
				8GHz~12.4 GHz	(30 ~ 26)dBm	U=0.33dB		
					(26 ~ -10)dBm	U=0.30dB		
					(-10 ~ -120)dBm	U=0.30dB~0.37dB		
				12.4GHz~18 GHz	(30 ~ 26)dBm	U=0.41dB		
					(26 ~ -10)dBm	U=0.40dB		
					(-10 ~ -120)dBm	U=0.40dB~0.47dB		
				18GHz~26.5 GHz	(30 ~ 26)dBm	U=0.69dB		
					(26 ~ -10)dBm	U=0.68dB		
					(-10 ~ -120)dBm	U=0.68dB ~0.75dB		
347	网络分析仪	谐波	网络分析仪校准规范 JJF(电子) 30501-2007	(-80~0)dB	20Hz～10MHz	U=0.83dB		

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347	网络分析仪	谐波	网络分析仪校准规范 JJF(电子) 30501-2007	(-80~0)dB	10MHz～3.6GHz	U=0.70dB		
					3.6GHz~8GHz	U=1.3dB		
					8GHz~22GHz	U=1.8dB		
		衰减		(0~100)dB		U=（0.1~1.5）dB		
		驻波比		1.01~2.00		U=0.05		
348	射频阻抗分析仪	频率	射频阻抗/材料分析仪校准规范 JJF 1127-2004	1MHz～3.0GHz		U_{rel}=2×10^{-6}		
		阻抗		0.1Ω～50kΩ	1MHz～100MHz	U_{rel}=0.4%		
				0.1Ω～50kΩ	100MHz～3GHz	U_{rel}=1.5%		
		相位		1MHz～100MHz	(-180°～+180°)	U=0.2°		
				100MHz～3.0GHz	(-180°～+180°)	U=0.9°		
		电压		(-40～+40)V		U_{rel}=0.2%		
349	数据信号发生器	内部时钟频率	数据信号发生器校准方法 Q/CTIC 301-2008	≤200MHz		U_{rel}=5×10^{-5}		
		外部时钟输入		(-2.0～+7.0)V		U_{rel}=3%		
		高电平输出		(-3.0～+6.0)V		U_{rel}=3%		
		低电平输出		(-3.0～+6.0)V		U_{rel}=3%		
350	电能表	电能	交流电能表现场校准技术规范 JJG 1055-1997	50W.s~1000kW.h (45Hz~65Hz)		U_{rel}=(0.6~0.2)%		

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序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围	扩展不确定度（k=2）	限制说明	备注
351	静电放电模拟器	电压	静电放电模拟器校准规范 JJF 1397-2013	(0.5～40)kV	U_{rel}=1.5%		
		电流		(0.1～30)A	U_{rel}=5.6%		
		时间		(0.1～1.2)ns	U_{rel}=5.0%		
352	浪涌发生器	电压	电浪涌发生器校准规范 JJF(电子) 30803-2007	(0.25-40)kV	U_{rel}=3%		
		时间		(0.1～100) μs	U_{rel}=2.4%		
		电流		(0.1～30)kA	U_{rel}=3%		
353	功率吸收钳	插入损耗	30MHz-1.0GHz 吸收式功率钳校准规范 JJF 1155-2006	(10～30)dB (30MHz～1GHz)	U=1.9dB		
354	数字高压表	交流电压	数字高压表校准规范 JJF(鲁) 60-2007	(100～1000)V (50～60)Hz	U_{rel} = 1 %～0.3 %		
				(1～10)kV (50～60)Hz	U_{rel} = 0.4%		
		直流电压		(100～1000)V	U_{rel} =0.9 %～0.3 %		
				(1～10)kV	U_{rel} =0.3%		
355	高阻箱	电阻	直流高压高阻电阻器检定规程 JJG 1072-2011	100Ω～1kΩ	U_{rel}=0.005%		
				1kΩ～10kΩ	U_{rel}=0.002%		
				10kΩ～100kΩ	U_{rel}=0.002%		
				100kΩ～1MΩ	U_{rel}=0.005%		

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355	高阻箱	电阻	直流高压高阻电阻器检定规程 JJG 1072-2011	1MΩ～10MΩ	U_{rel}=0.02%		
				10MΩ～100MΩ	U_{rel}=0.2%		
				100MΩ～1GΩ	U_{rel}=0.3%		
				1GΩ～10GΩ	U_{rel}=0.5%		
				10GΩ～100GΩ	U_{rel}=0.5%～1%		
356	信纳表	信纳	信纳表校准规范 JJF 1165-2007	(3～30)dB	U=0.24dB		
357	声频信号发生器	频率	声频信号发生器检定规程 JJG 607-2003	10Hz～100kHz	U_{rel}=3.5×10^{-5}		
		电平		10mV～300V	U_{rel}=0.24%		
358	同轴阻抗标准器(校准件)	导纳模值	射频同轴阻抗标准器检定规程 JJG(电子) 306001-2006	4ns～14ms (1MHz～2GHz)	U_{rel}=0.3%		
				4ns～14ms (2GHz～8GHz)	U_{rel}=0.5%		
				4ns～14ms (8GHz～18GHz)	U_{rel}=1.0%		
		阻抗模值		(0～22)kΩ (1MHz～2GHz)	U=0.018Ω		
				(0～22)kΩ (2GHz～8GHz)	U=0.021Ω		

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358	同轴阻抗标准器(校准件)	阻抗模值	射频同轴阻抗标准器检定规程 JJG(电子) 306001-2006	(0～22)kΩ (8GHz～18GHz)	U=0.038Ω		
		相位		-180° ～180° (1MHz～2GHz)	U=0.6°		
				-180° ～180° (2GHz～8GHz)	U=1.0°		
				-180° ～180° (8GHz～18GHz)	U=2.0°		
359	特斯拉计	磁感应强度	特斯拉计检定规程 JJG 242-1995	1mT～2T	U_{rel}=0.2%～0.12%		
360	杂音计	电平	杂音计校准规范 JJF 1167-2007	(10～-100)dBm 10Hz～100kHz	U=0.20dB～0.87dB		
		阻抗		(70～700)Ω	U_{rel}=0.5%		
		加权/不加权频率特性		10Hz～32kHz	U=0.30dB		
361	时序/噪声分析仪	时间	时序/噪声分析仪校准方法 Q/CTIC 02035-2014	10μs～1ms	U_{rel}=0.5%		
		波纹电压		(1～2000)mV (0～100)kHz	U=0.16dB		
				(1～2000)mV (100kHz～5MHz)	U=0.20dB		

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361	时序/噪声分析仪	波纹电压	时序/噪声分析仪校准方法 Q/CTIC 02035-2014	(1～2000)mV (5～20)MHz	U=0.36dB		
362	电视信号场强仪	频率	电视信号场强仪检定规程 JJG 1057-2010	(40～1000)MHz	U_{rel}=3.3×10^{-5}		
		电平		(30～110)dBμV (40～1000)MHz	U=1.4dB		
363	电子式时间继电器	时间	电子式时间继电器校准规范 JJF 1282-2011	1ms～9999s	U_{rel}=0.51%～0.02%		
364	高压开关机械特性测试仪	时间（合闸时间、分闸时间、合闸同期性、分闸同期性、弹跳时间）	高压开关机械特性测试仪校准规范 JJF(浙) 1033-2009	1ms～1000ms	U_{rel}=7×10^{-4}		
				1000ms～20000ms	U_{rel}=9×10^{-6}		
365	无源互调测试仪	载波输出频率	无源互调测试仪校准规范 JJF 1463-2014	50MHz～6GHz	U_{rel}=1.2×10^{-7}		
		功率		20dBm～48dBm (50MHz～6GHz)	U=0.22 dB		
		无源互调测量		-70dBm～-140dBm (50MHz～6GHz)	U=0.20 dB～0.30 dB		
366	极性测试仪	时间	极性测试仪校准方法 Q/CTIC 02062-2014	10ns～500ms	U_{rel}=1.2%		

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366	极性测试仪	脉冲幅度	极性测试仪校准方法 Q/CTIC 02062-2014	10mV～50V	U_{rel}=0.2%		
		频率		1Hz～1kHz	U_{rel}=0.015%		
367	充电平板测试仪	直流电压	充电平板检测仪校准规范 JJF(电子) 31003-2008	(1～1000)V	U_{rel}=0.6% ～0.1%		
		衰减时间		(0.1～99.9)s	U_{rel}=0.1%~0.3%		
368	电压暂停、短时中断和电压变化发生器	电压	电压暂停、短时中断和电压变化发生器校准规范 JJF(电子) 30802-2006	(1～300)V	U_{rel}=1.0%		
		时间		5ns～50μs	U_{rel}=10%		
				50μs～10ms	U_{rel}=2%		
				10ms～100ms	U_{rel}=1%		
				100ms～10s	U_{rel}=0.7%		
		相位		(0～315)°	U=8.4°		
369	电容器漏电流测试仪	直流电压	电容器漏电流测试仪检定规程 JJG(电子) 306003-2006	(1～10)V	U_{rel}=0.8%		
				(10～100)V	U_{rel}=0.6%		
				(100～1000)V	U_{rel}=0.8%		
		漏电流		(0.1～100)μA	U_{rel}=0.4%		
				(0.1～1)mA	U_{rel}=0.9%		
				(1～10)mA	U_{rel}=0.4%		

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369	电容器漏电流测试仪	漏电流	电容器漏电流测试仪检定规程 JJG(电子) 306003-2006	(10～100)mA	U_{rel}=0.2%		
				(100～1000)mA	U_{rel}=0.2%		
		时间		(1～99)s	U_{rel}=0.9%		
370	电快速瞬变脉冲群发生器	电压	电快速瞬变脉冲群发生器校准规范 JJF(电子) 30804-2007	(0.25～4)kV	U_{rel}=3%		
		时间		4ns～300ms	U_{rel}=4%		
		频率		5kHz～100kHz	U_{rel}=0.2%		
371	接触电流测试仪	电压	接触电流测试仪校准方法 QCTIC 02056-2014	(10～300)V (10Hz～300kHz)	U_{rel}＝0.4%		
		直流阻抗		10Ω～10kΩ	U_{rel}＝0.05%		
		交流阻抗		10Ω～100kΩ (10Hz~1MHz)	U_{rel}＝0.8%		
		电流		1μA～100mA (45Hz~65Hz)	U_{rel}＝1%		
		电压比		1～1382 (20Hz～1MHz)	U_{rel}＝1%		
372	晶体管筛选仪	直流电压	晶体管直流和低频参数测试仪检定规程 JJG 725-1991	(0.1～700)V	U_{rel}＝0.5%～1%		
		直流电流		1mA～1.1A	U_{rel}＝0.3%		

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373	螺纹千分尺	长度	螺纹千分尺检定规程 JJG 25-2004	(0～200)mm	U=1.3μm		
374	奇数沟千分尺	长度	奇数沟千分尺检定规程 JJG 182-2005	(0～100)mm	U=1.8μm		
375	伸长试验仪	长度	漆包绕组线试验仪器设备检定方法 第三部分：伸长试验仪 JB/T 4279.3-2008	0%～60%	Urel=0.24%		
376	条码扫描仪	长度	条码扫描仪检定规程 JJG 979-2003	(0.127～5.700)mm	U=5.4μm	条空宽度、误码率	
				50%～100%	Urel=2.2%	反射率	
377	接触（触针）式表面轮廓测量仪	长度	接触（触针）式表面轮廓测量仪校准规范 JJF(闽) 1043-2011	(0.001～50)mm	U= 1.0μm+0.025L L:m		
378	跌落试验机	长度	跌落试验机校准方法 Q/CTIC 02032-2014	(0～500)mm	U=1.0mm		
				500mm～5m	U_{rel}=0.3%		
379	引伸计	长度	引伸计检定规程 JJG 762-2007	(0～50)mm	U_{rel}=0.30%		
		标距		(0～600)mm	U=0.04mm		
380	跌落试验板	长度	跌落试验地板校准方法 Q/CTIC 02052-2014	≤1000mm	U=1.2mm		
		厚度		≤50mm	U=0.4mm		

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380	跌落试验板	面积	跌落试验地板校准方法 Q/CTIC 02052-2014	≤1m²	U= 1.4×10³mm²		
		硬度		≤100HA, ≤100HD	U=1.7HA U=1.7HD		
381	稳定性试验台	长度	稳定性试验台校准方法 Q/CTIC 02055-2014	≤1 m	U=1.1mm		
		转速		≤50r/min	U=(0.03～0.4)r/min		
		角度		≤90°	U=0.2°		
382	落锤式冲击试验机	落锤高度	落锤式冲击试验机 校准规范 JJF 1445-2014	≤5 m	U=(0.6～2)mm		
		落锤质量		(0～30)kg	U=6mg～1.3g		
		落锤锤头半径		（0～300）mm	U=0.06mm		
383	计数器	计数	计数器校准方法 Q/CTIC 02054-2014	≤50000r	U=0.6r		
384	速度表	转速	速度表校准方法 Q/CTIC 02059-2014	(1～10000) r/min	U_{rel}=(0.2～0.3)%		
		速度		(0～3000) m/min	U_{rel}=(0.2～0.3)%		
385	纸与纸板吸收性测定仪	吸收面积	纸与纸板吸收性测定仪检定规程 JJG（轻工）55-2000	(100±10)cm²	U=0.05cm²		
		压辊长度		(200±20)mm	U=0.02mm		
		压辊重量		(10±0.5)kg	U=0.2kg		

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386	键盘、按键寿命试验机（打击试验机）	速度	键盘、按键寿命试验机校准方法 Q/CTIC 02061-2014	(0-10000)r/min	U_{rel}= 0.6 %		
		行程		≤1000mm	U_{rel}= 0.5 %		
		质量		（0～30）kg	U=（0.05～2.3）g		
387	轮胎耐久性及轮胎高速性能转鼓试验机	转鼓直径	轮胎耐久性及轮胎高速性能转鼓试验机校准规范 JJF 1195-2008	(1700±50)mm	U=4mm		
		试验负荷		(0.2～200)kN	U_{rel}=0.4%		
		试验速度		(10～320)km/h	U_{rel}=0.32%		
388	雷氏夹膨胀测定仪	长度	雷氏夹膨胀测定仪检定规程 JJG（建材）110-1994	(2～200)mm	U=(0.014～0.6)mm		
		质量		(299.9～300.1)g	U_{rel}=0.02%		
389	水泥安定性试验用雷氏夹	长度	水泥安定性试验用雷氏夹检定规程 JJG(建材) 111-1994	(0.5～150)mm	U=(0.03～2.4)mm		
390	胶砂试模	长度	胶砂试模检定规程 JJG(建材) 122-1999	(0.05～1000)mm	U=(0.007～0.6)mm		
		质量		≤6500g	U_{rel}=0.02%		
391	针片状规准仪	长度	针片状规准仪检定规程 JJG(苏）53-2006	(2.8～100)mm	U=0.03mm		
392	百格网	长度	建筑工程质量检测器组校准规范 JJF 1110-2003	≤300mm	U=0.03mm		

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393	坡度尺	长度	建筑工程质量检测器组校准规范 JJF 1110-2003	≤1000mm	U=0.1mm/m		
394	混凝土裂缝深度测量仪	长度	混凝土裂缝宽度及深度测量仪校准规范 JJF 1334-2012	(35～500)mm	U=0.007mm		
395	混凝土裂缝宽度测量仪	长度	混凝土裂缝宽度及深度测量仪校准规范 JJF 1334-2012	(0.01～10)mm	U=0.003mm		
396	非金属建材塑限测定仪	长度	非金属建材塑限测定仪校准规范 JJF 1090-2002	(0.5～180)mm	U=(0.006～0.03)mm		
		角度		（30±0.2）°	U=6′		
		质量		(2.5～300)g	U_{rel}=0.02%		
397	土壤液塑限检测仪	长度	土壤液塑限检测仪检定规程 JJG(交通) 069-2009	(0～50)mm	U=(0.007～0.03)mm		
		质量		(76～100)g	U_{rel}=0.02%		
		角度		（30±0.2）°	U=6′		
		时间		（4.9～5.1）s	U=0.03s		
398	标准筛	长度	水泥标准筛检定规程 JJG(建材) 106-1999	(0.045～100)mm	U=(0.006～0.6)mm		
399	砂当量仪	长度	砂当量试验仪检定规程 JJG（苏）44-2004	(32～420)mm	U=(0.005～0.03)mm		
		质量		(1000±10)g	U_{rel}=0.02%		
		时间		(30～1200)s	U=0.03s		
		频率		(180±2)次/分钟	U=0.4 次/分钟		

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400	细集料流动时间测定仪	长度	细集料流动时间测定仪检定规程 JJG（交通）109-2012	(10～150)mm	U=0.03mm		
		角度		≤360°	U=6′		
401	坍落度测定仪	长度	水泥混凝土稠度试验仪检定规程 JJG（苏）50-2006	(1.5～600)mm	U=(0.03～0.6)mm		
402	水泥砂浆分层度仪	长度	水泥砂浆分层度仪校准方法 JTJZ 03-18	(100～200)mm	U=0.06mm		
403	水泥抗压夹具	长度	混凝土夹具校准方法 Q/CTIC 02036-2014	(10～350)mm	U=0.06mm		
404	灌砂仪	长度	灌砂法密实度仪检定规程 JJG(苏) 36-1999	(9.6～600)mm	U=(0.006～0.03)mm		
405	金属线材反复弯曲试验机	长度	金属线材反复弯曲试验机校准方法 Q/CTIC 02060-2014	(0～300)mm	U=0.06mm		
406	钢筋标距仪	长度	钢筋标距仪检定规程 JJG(苏) 67-2006	(0～300)mm	U=0.03mm		
407	钢筋保护层测量仪	长度	钢筋保护层、楼板厚度测量仪校准规范 JJF 1224-2009	(6～350)mm	U=0.007mm		
408	碳化深度测量尺	长度	碳化深度测量尺检定规程 JJG（豫）162-2012	(0～8)mm	U=0.15mm		
409	沥青针入度仪	长度	沥青针入度仪校准规范 JJF 1208-2008	(1.00～200)mm	U=(0.02～0.04)mm		
		质量		(2.45～100.05)g	U=0.02g		

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409	沥青针入度仪	温度	沥青针入度仪校准规范 JJF 1208-2008	（0～30）℃	U=（0.08～0.10）℃		
		表面粗糙度		（0.029～0.171）μm	U=（0.01～0.02）μm		
410	沥青延度测定仪	拉伸速度	沥青延度仪检定规程 JJG（交通）023-2002	（1～5）cm/min	U=（0.03～0.09）cm/min		
		长度		（10～100）mm	U=0.10mm		
		温度		（0～30）℃	U=（0.24～0.27）℃		
411	沥青软化点仪	长度	沥青软化点仪检定规程 JJG(交通)057-2004	（6.4～30）mm	U=(0.11～0.13)mm		
		质量		（2～5）g	U=0.18g		
		温度		（30～200）℃	U=（0.31～0.36）℃		
		时间		（10～1200）s	U=（0.09～0.17）s		
412	沥青混合料拌和机	转速	沥青混合料拌和机检定规程 JJG(交通)064-2006	(40～80)r/min	U=(0.11～0.28)r/min		
		时间		0.01s～1h	U=(0.11～0.42)s		
		温度		(40～300)℃	U=(0.25～0.59)℃		
413	水泥安定性试验煮沸箱	长度	水泥安定性试验煮沸箱 JJG(建材)109-1994	（10～75）mm	U=（0.12～0.28）mm		
		温度		（20～90）℃	U=1.5℃		
		电阻		（0～50）MΩ	U_{rel}=0.001%～0.00025%		

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413	水泥安定性试验煮沸箱	时间	水泥安定性试验煮沸箱 JJG(建材) 109-1994	(10～3600)s	U=（0.09～0.25）s		
414	沥青老化烘箱	温度	沥青老化烘箱 JJG(交通) 056-2004	（20～200）℃	U=0.4℃		
		转速		（5～50）r/min	U=(0.08～0.52)r/min		
		长度		（1～200）mm	U=（0.08～0.34）mm		
		时间		（60～1800）s	U=（0.09～0.24）s		
		流量		（1000～10000）ml/min	U=(6.0～58)ml/min		
415	燃烧法沥青含量测试仪	温度	燃烧法沥青含量测试仪检定规程 JJG(交通) 072-2006	（50～900）℃	U=（1.2～1.7）℃		
		时间		（180～3600）s	U=(0.09～0.25)s		
		质量		（50～3000）g	U=(0.01～0.02)g		
416	土工击实仪	质量	土工击实仪检定规程 JJG（交通） 058-2004	(2500~4500)g	U=0.18g		
		长度		(2~460)mm	U=(0.07～1.0)mm		
417	沥青混合料马歇尔击实仪	质量	沥青混合料马歇尔击实仪检定规程 JJG（交通） 065-2006	(4.536~10.21)kg	U=(0.18~1.2)g		
		长度		(12.7~457.2)mm	U=(0.07~1.0) mm		
		速度		(60±5)次/分钟	U=1.2 次/分钟		

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418	洛杉矶磨耗试验机	转速	洛杉矶磨耗试验机检定规程 JJG（交通）108-2012	（20～50）r/min	U=0.3r/min		
		质量		(390～445)g	U=0.07g		
		长度		（30～100）mm	U=0.07 mm		
419	透气法比表面积仪	长度	透气法比表面积仪检定规程 JJG（建材）107-1999	(3~65)mm	U=0.05mm		
420	水泥负压筛析仪	长度	水泥负压筛析仪检定规程 JJG（苏）58-2006	（150±0.5）mm	U=0.05mm		
		转速		(30±2)r/min	U=0.30r/min		
		负压		(-100~0)kPa	U=0.24kPa		
421	水泥胶砂振实台	质量	胶砂试体成型振实台检定规程 JJG（建材）124-1999	（6~30）kg	U=1.8 g		
		振幅		(14.7～15.3)mm	U=0.05 mm		
		时间		(60±2)s	U=0.24 s		
422	砂浆搅拌机	长度	实验室用砂浆搅拌机检定规程 JJG（苏）56-2006	(230~380)mm	U=0.6mm		
		转速		（50～100）r/min	U=0.30r/min		
423	维勃稠度仪	频率	水泥混凝土稠度试验仪检定规程 JJG（苏）50-2006	(2~200)Hz	U=0.3Hz		
		振幅		（0.1～10）mm	U=0.02mm		
		长度		（0.5～600）mm	U=（0.06～0.6） mm		

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423	维勃稠度仪	质量	水泥混凝土稠度试验仪检定规程 JJG（苏）50-2006	（2750±20）g	U=0.18g		
424	回弹仪	长度	回弹仪检定规程 检定规程 JJG 817-2011	(18~200)mm	U=0.07 mm	测砖回弹仪、砂浆回弹仪、混凝土回弹仪	
		摩擦力		(0.1~1)N	U=0.06 N		
		刚度		(50～1200)N/m	U=(0.9～5.8)N/m		
		率定值		0~100	U=1		
425	水泥混凝土振动台	频率	混凝土试验用振动台检定规程 JJG(苏) 60-2006	(2~200)Hz	U=0.3Hz		
		振幅		（0.1～10）mm	U=0.02mm		
426	水泥胶砂耐磨性试验机	长度	水泥胶砂及混凝土耐磨性试验机检定规程 JJG（交通）097-2009	(2~200)mm	U=(0.006~0.06) mm		
		转速		(10～1000)r/min	U=(0.16~1.4)r/min		
		负荷		(200~2000)N	U_{rel}=0.4%		
427	相对密度仪	长度	相对密度仪检定规程 JJD 1021-1994	(40~200)mm	U=0.05mm		
		质量		（500～6200）g	U=0.12g		
428	固结仪	力值	固结仪检定规程 JJD 1026-1994	（0～5）kN	U_{rel}=0.5%		
		质量		（200～6200）g	U=0.18g		

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429	直剪仪	力值	直接剪切仪检定规程 JJD 1025-1994	（0～5）kN	U_{rel}=0.3%		
		质量		（200～6200）g	U=0.18g		
430	加速磨光机	长度	加速磨光机检定规程 JJG（交通）054-2004	(1~600)mm	U=(0.06~0.12) mm		
		跳动值		(0~10)mm	U=0.024 mm		
		转速		(320±5)r/min	U=0.7r/min		
		橡胶硬度		(55±5)HD	U=1.3HD		
		静压力		(400±5)N	U=0.72N		
431	马歇尔稳定度试验仪	力值	马歇尔稳定度试验仪检定规程 JJG（交通）066-2006	(0~50)kN	U_{rel}=0.4%		
		流值		(0~100)mm	U=0.03 mm		
432	振筛机	次数	振筛机校准方法 Q/CTIC 02051-2014	(100~300)次/分钟	U=0.9 次/分钟		
		长度		(1~600)mm	U=0.36mm		
433	贯入式砂浆强度检测仪	力值	贯入式砂浆强度检测仪校准规范 JJF 1372-2012	(800±8)N	U=1.3N		
		长度		（0.01~200）mm	U=0.05 mm		
434	摆式摩擦系数测定仪	质量	摆式摩擦系数测定仪检定规程 JJG（交通）053-2009	(1500±30)g	U=0.12g		
		长度		（1~5000）mm	U=1.2mm		
		静压力		(22.2±0.5)N	U=0.13N		

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435	混凝土贯入阻力测定仪	力值	混凝土贯入阻力测定仪检定规程 JJG（交通）095-2009	(0~2000)N	U_{rel}=0.2%		
		长度		(5~200)mm	U=(0.008~0.07)mm		
436	压碎值试验仪	长度	压碎值试验仪检定规程 JJG(苏）54-2006	(10~200)mm	U=0.06mm		
437	水泥混凝土抗渗仪	长度	水泥混凝土抗渗仪校准方法 JTJZ 03-16	(100~200)mm	U=0.08mm		
		压力		(0~25)MPa	U_{rel}=0.8%		
438	轮碾成型机	长度	轮碾成型机校准方法 JTJZ 04-09	(0.5~1000)mm	U=0.46mm		
		力值		(0~50)kN	U_{rel}=0.4%		
		温度		（-85～200）℃	U=0.74℃		
439	车辙试验机	长度	车辙试验机校准方法 JTJZ 04-10	（10~5000）mm	U=(0.08~1.0) mm		
		往返速率		(0.1~200)mm	U=0.3 次/分钟		
		力值		(700~1000)N	U_{rel}=0.2%		
		温度		（60±1）℃	U=0.42℃		
		变形		(0.5~100)mm	U=0.022mm		
440	路面渗水仪	长度	沥青混合料渗水仪检定规程 JJG（交通）104-2012	(0.05~600)mm	U=(0.09~0.42)mm		
		质量		(1000~6200)g	U=0.18 g		
		容积		(50~600)mL	U=0.28 mL		

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441	容量筒	长度	容量筒校准方法 JTJZ 02-08	(10~600)mm	U=(0.12~0.52)mm		
442	压力泌水仪	长度	压力泌水仪校准方法 Q/CTIC 02049-2014	(100~200)mm	U=0.09mm		
		压力		(0~25)MPa	U_{rel} = 0.60%		
443	混凝土搅拌机	转速	混凝土搅拌机校准方法 Q/CTIC 02041-2014	(30～60)r/min	U=0.20r/min		
		长度		（1~5000）mm	U=1.3 mm		
		时间		（0~60）min	U=0.28s		
444	电阻应变仪	应变	电阻应变仪检定规程 JJG 623-2005	（0～1000）με	U=（0.6~1）με		
				（1000～100000）με	U_{rel} =0.06%~0.1%		
445	钢砧	质量	混凝土回弹仪检定检定装置检定规程 JJG(苏) 59-2006	（10~45）kg	U=(1.2~60)g		
		硬度		(58~63)HRC	U=1.8HRC		
446	门尼粘度计	温度	橡胶门尼粘度计检定规程 JJG(化工) 102-1991	常温～300℃	U=0.17℃		
		粘度		(0～96)ML	Urel=2.3%		
447	橡胶硫化仪	温度	橡胶圆盘摆动硫化仪检定规程 JJG(化工) 101-1991	常温～300℃	U=0.17℃		

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448	医用热力灭菌设备	温度	医用热力灭菌设备温度计校准规范 JJF 1308-2011	(0～140)℃	U=0.24℃		
		压力		(1～500)kPa	Urel=2%		
449	开口/闭口闪点测定仪	温度	开口/闭口闪点测定仪校准规范 JJF 1384-2012	（70~170）℃	U=3.5℃～5.0℃	闭口	
				（110~230）℃	U=6.6℃～8.0℃	开口	
450	色温表	色温	色温表检定规程 JJG 212-2003	（2000～3400）K	U=20K		
				（3400～9000）K	U=60K		
451	光谱测色仪	光通量	光谱测色仪检定规程 JJG 867-1994 总光通量标准白炽灯 检定规程 JJG 247-2008 色温表检定规程 JJG 212-2003	(10～200)lm	U_{rel}＝1.8%		
				(>200～2000)lm	U_{rel}＝1.7%		
		色度		0～1	U=0.005		
		色温		2856K	U=18K		
				3000K	U=19K		
452	李氏密度瓶	容量	李氏密度瓶检定规程 JJG（交通）092-2009	（0~24）mL	U=0.02mL		
453	沥青标准粘度计	温度	沥青标准粘度计检定规程 JJG（交通）055-2004	（0~100）℃	U=0.04℃		

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453	沥青标准粘度计	长度	沥青标准粘度计检定规程 JJG（交通）055-2004	（0~200）mm	U=0.03mm		
		容量		（0~200）mL	U=0.4mL		
454	电化学氧测定仪	浓度	电化学氧测定仪检定规程 JJG 365-2008	0.1%～100%	U_{rel} =1.6%		
455	氧化锆氧分析器	浓度	氧化锆氧分析仪检定规程 JJG 535-2004	0.1%～100%	U_{rel} =1.7%		
456	顺磁式氧分析器	浓度	顺磁式氧分析器检定规程 JJG 662-2005	0.1%～100%	U_{rel} =1.7%		
457	微量氧分析仪	浓度	微量氧分析仪检定规程 JJG 945-2010	（0～10）μmol/mol	U_{rel} =2.6%		
				（>10～100）μmol/mol	U_{rel} =1.7%		
				（>100～1000）μmol/mol	U_{rel} =1.5%		

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CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT

APPENDIX OF ACCREDITATION CERTIFICATE

(Registration No. CNAS L5102)

NAME:CTI Metrology Technology Co., Ltd.

ADDRESS:Building C, Taohuayuan Innovation Park, Xixiang, Baoan District, Shenzhen, Guangdong, China

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

Date of Issue:2015-03-18 **Date of Expiry:2017-05-15**

APPENDIX 3 ACCREDITED CALIBRATION

№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
1	Current Caliper	Length	V.R.of Current Calipers JJG 30-2012	Digital Caliper	(0～600)mm	*U=0.01mm*		
					(＞600～1000)mm	*U=0.02mm*		
				Vernier Caliper	(0～600)mm	*U=0.01mm*		
					(＞600～1000)mm	*U=0.02mm*		
				Dial Caliper	(0～300)mm	*U=0.01mm*		
				Depth caliper	(0～600)mm	*U=0.01mm*		
2	Height Calipers	Length	V.R. of Height Calipers JJG 31-2011	（0～600）mm		*U=0.01mm*		
				(＞600～1000)mm		*U=0.02mm*		
3	Micrometer	Length	V.R.of Micrometer JJG 21-2008	Digital（0～75）mm		*U=1μm*		
				Digital（75～100）mm		*U=2μm*		
				（0～500）mm		*U=2μm*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
3	Micrometer	Length	（Measuring range500mm～3000)mm V.R.of Micrometer JJF 1088-2002	（500～1000）mm	（500～1000）mm	*U=(3+5L)μm L-m*		
			V.R.of Micrometer JJG 21-2008	calibrating rod Bar（25～500）mm		*U=(0.6+2L)μm L-m*		
4	Depth Micrometer	Length	V.R.of Depth Micrometers JJG 24-2003	（0～300）mm		*U=(1+5L)μm L-m*		
5	Internal Micrometer	Length	V.R. of Internal Micrometers JJG 22-2003	(25～500)mm		*U=(1.5+5L)μm L-m*		
6	Micrometer for Measuring Inside Dimension	Length	C.S. for Micrometers for Measuring Inside Dimension JJF 1411-2013	(3～150)mm		*U=2μm*		
7	Micrometers with Dial Comparator and Indicating Snap Gauge	Length	V.R. of Micrometers with Dial Comparator and Indicating Snap Gauge JJG 26-2011	(0～100)mm		*U=1.2μm*		
8	The Class of Normal Micrometer	Length	V.R.of The Class of Normal Micrometer JJG 82-2010	≤200mm		*U=2μm*		
9	Micrometer with Gauge	Length	V.R.of Micrometer with Gauge JJG 427-2004	（0～100）mm		*U=1.2μm*		
10	Snap Gauge Reading in 0.01mm	Length	V.R.of Snap Gauge Reading in 0.01mm JJG 109-2004	≤150mm		*U=3.0μm*		
11	Dial Snap Gauges	Length	C.S.for Dial Snap Gauges JJF 1253-2010	(0.5～100）mm	d=0.005mm	*U=0.007mm*		
					d=0.01mm	*U=0.016mm*		
					d=0.02mm	*U=0.031mm*		
12	Straight Edge	Straightness	C.S. for Straight Edges JJF 1097-2003	(400～6300)mm		*U=(0.5+0.6L) μm L:m*		
13	Level Rule	Angle	C.S. for Level Rules JJF 1085-2002	(200～1200)mm		*Urel=8 %*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
14	Feeler Gauge	Thickness	V.R.of Feeler Gauge JJG 62-2007	(0.02～3.00)mm	(0.02～3.00)mm	*U=1μm*		
15	Steel Rule	Length	V.R.of Steel Rule JJG 1-1999	(0～2000）mm		*U=(0.05+0.02L)mm L-m*		
16	Steel Tape	Length	V.R. of Steel Tape JJG 4-1999	(0～200)m		*U=(0.1+0.02L)mm L-m*		
17	Square	Angle	V.R. of Squares JJG 7-2004	≤63mm		*U =0.5μm*		
				(＞63～125)mm		*U =1.0μm*		
				(＞125～315)mm		*U =2.0μm*		
				(＞315～500)mm		*U =3.0μm*		
				≤500mm		*U =0.01mm*		
18	Wooden Rule(Wooden folded rule)	Length	V.R.of Wooden Rule(Wooden folded rule) JJG 2-1999	≤3000mm		*U=0.2mm*		
19	Inclined Gauge/Clearance Gauge/Cuniform Gauge	Length	C.S.of Construction Quality Tester Sets JJF 1110-2003	≤15mm		*U=0.04mm*		
20	Measuring Circum Ference and Diameter of Flexible Part	Length	V.R.of Tape for Measuring Circum Ference and Diameter of Flexible Part JJG 670-1990	（0～211）cm		*U=0.1mm*		
21	Fiber Tape Measuring Rope	Length	V.R.of Fiber Tape and Measuring Ropes JJG 5-2001	≤200m		*U=(1.0+0.04L)mm L-m*		
22	Straight Edge	Straightness	V.R.of Straight Edge JJG 63-2007	≤300mm		*U=0.3μm*		
23	Dial Gauges Reading in 0.001mm	Length	V.R. of Dial Gauges JJG 34-2008	(0～5)mm	d=0.001mm	*U =(1.0+0.3L)μm L-mm*		
					d=0.002mm	*U =(1.2+0.3L)μm L-mm*		
24	Dial Gauges Reading in 0.01mm	Length	V.R. of Dial Gauges JJG 34-2008	（0～10）mm		*U=3μm*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
25	Wide Range Dial Gauges Reading in 0.01mm	Length	V.R. of Wide Range Dial Gauges Reading in 0.01mm JJG 379-2009	(0～50)mm	(0～50)mm	*U=5μm*		
26	Dial Comparator Reading in 0.001mm	Length	V.R. of Comparator JJG 35-2006	（0～1）mm		*U=1.2μm*		
27	Dial Comparator Reading in 0.01mm	Length	V.R. of Comparator JJG 35-2006	（0～5）mm		*U=3μm*		
28	Bore Dial Indicator	Length	C.S. for Bore Dial Indicators JJF 1102-2003	Dial indicator of 0.01mm (2～450)mm		*U=3μm*		
				Dial indicator of 0.001 mm (10～400)mm		*U=1.1μm*		
29	Depth Gauge (Reading in0.01 mm)	Length	V.R.of Depth Gauge JJG 830-2007	(0～100)mm		*U=3μm*		
30	Gauge Block	Length	V.R.of Gauge Blocks JJG 146-2011	（0.5～500）mm		*U=(0.15+1.5L)μm L-m*		
31	Step Gauge	Length	Calibration Method for Step Gauge Q/CTIC 02031-2013	≤600mm		*U=(1.5+1.5L) μm L-m*		
32	Caliper Master	Length	Calibration Method for Step Gauge Q/CTIC 02031-2013	≤600mm		*U=(1.5+1.5L) μm L-m*		
33	Common Line Scale	Length	Calibration Method for Common Line scale Q/CTIC 02028-2013	≤300mm		*U=1.1μm*		
34	Plates	Plane degree	V.R.of Plates JJG 117-2013	（2000×3000）mm		*U=(0.6+0.7L) μm L-m Diagonal*		
35	Fineness of Grind Gauge	Length	V.R. of Fineness of Grind Gauge JJG 905-2010	（0～150）μm		*U=0.5μm*		
36	Optimeter	Length	V.R. of Optimeter JJG 45-1999	(0～180)mm		*U=0.11μm*		
37	Tester for Dial Indicator Gauge	Length	V.R. of Tester for Dial Indicator Gauge JJG 201-2008	(0～50)mm		*U=1.0μm*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
37	Tester for Dial Indicator Gauge	Length	V.R. of Tester for Dial Indicator Gauge JJG 201-2008	(0～5)mm	(0～5)mm	*U=0.3μm*		
38	Magnetic and Eddy Current Measuring Instrument for Coating Thickness	Thickness	V.R. of Magnetic and Eddy Current Measuring Instrument for Coating Thickness JJG 818-2005	(0～1)mm		*U=1.1μm*		
				(＞1～10)mm		*U=2.1μm*		
				calibration foil Thickness	(5～100) μm	*U=0.5μm*		
					(＞100～1000) μm	*U=2.5μm*		
39	Thickness Gauge	Length	V.R.of Thickness Gauge JJF 1255-2010	≤30mm		*U=2μm*		
40	Ultrasonic Thickness Gauge	Length	C.S.for Ultrasonic Thickness instruments JJF 1126-2004	(0.5～200)mm		*U=(0.01+0.2L）mm L-m*		
41	X Ray Fluorescence Coating Thickness Instrument	Length	C.S. of X Ray Fluorescence Coating Thickness Instrument JJF 1306-2011	(0～15) μm		*Urel=6%*	Au、Ag、Cu、Ni、Pd、Sn、Zn、Cr、SnPb	
				calibration foil Thickness(0.01～15) μm		*Urel=6.4%*		
42	Fabric Thickness Gauge	Length	V.R.of Fabric Thickness Instrument JJF（spinning）020-2010	≤10mm		*U=1.4μm*		
		Mass		≤500g		*U=0.05g*		
43	Solder Paste Phickness Measurement Instrument	Length	Calibration Method for Solder Paste Thickness Tester Q/CTIC 02030-2013	（1～1000）μm		*U=4μm*		
44	Solder Paste Thickness Tester Tester Gauge	Length	Calibration Method for Solder Paste Thickness Tester Gauge Q/CTIC 02029-2013	（1～1000）μm		*U=1.7μm*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
45	Contact (Stylus) Instruments of Surface Roughness Measurement by the Profile Method	Roughness	C.S. for Contact (Stylus) Instruments of Surface Roughness Measurement by the Profile Method JJF 1105-2003	Ra: (0.012～12.50) μm	Ra: (0.012～12.50) μm	*Urel=3 %*		
46	Roughness Comparison Specimens	Roughness	C.S.for Roughness Comparison Specimens JJF 1099-2003	Ra（0.025～25） μm		*Urel=6%*		
47	Radius Gauge	Length	V.R. of Radius Gauge JJG 58-2010	R (0.1～25.0)mm		*U=(5+0.2L）μm L-mm*		
48	Screw Thread Gauge	Length	V.R. of Screw Thread Gauge JJG 60-2012	(0.40～6.00)mm		*U=(2+0.4L）μm L-mm*		
49	Three Wire set	Length	C.S.for Cylindrical Measuring Pin JJF 1207-2008	Φ(0.118～6.585)mm		*U=0.3μm*		
50	Pin Gauge	Length	C.S.for Cylindrical Measuring Pin JJF 1207-2008	≤Φ30mm		*U=0.5μm*		
51	Optical Flat	Flatness	V.R. of Optical Flat JJG 28-2000	D(30～100)mm		*U=0.01μm*		
52	Parallel Optical Flat	Flatness	V.R. of Optical Flat JJG 28-2000	(12～91)mm		*U=0.01 μm*		
		Parallelism				*U=0.2μm*		
53	Length Meter	Length	V.R.of Cable Length Meter JJG 987-2004	≤10m		*Urel=1.4%*		
				11m～200m		*Urel=0.2%*		
				201m～100000m		*Urel=0.03%*		
54	Laser Diameter Tester	Length	Calibration Specification for Laser Diameter Mmeasuring Gauges JJF 1250-2010	≤30mm		*U=0.5μm*		
55	Digital Display Indicator	Length	V.R.of Depth Gauge JJG 830-2007	≤100mm		*U=2μm*		
56	Digital Display Height Measuring Instrument	Length	Calibration Specification for Height Measuring Instrument with Digital Display JJF 1254-2010	(0～1000)mm		*U=(0.8+1.0L) μm L-m*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
57	Screw Thread Plug Gauge	Length	V.R. of Cylindrical Screwthread Gauges JJF 1345-2012	Φ (1-100)mm	Φ (1-100)mm	*U=2.0μm*		
58	Screw Thread Ring Gauges	Length	V.R. of Cylindrical Screw thread Gauges JJF 1345-2012	M(2～200)mm		*U=3.0μm*		
59	Standard Ring Gauge	Length	V.R. of Standard Ring Gauge JJG 894-1995	Φ(1～200)mm		*U=(1.0+0.01L）μm L-mm*		
60	Smooth Limit Gauge	Length	V.R. of Smooth Limit Gauge JJG 343-2012	Plug Gauge	(1～100)mm	*U=0.5μm*		
					(＞100～160)mm	*U=0.8μm*		
				Ring Gauge	(1～100)mm	*U=0.5μm*		
					(＞100～160)mm	*U=1.0μm*		
61	Reading Microscope (One Hundred Times mirror、Ten Times Mirror)	Length	V.R. of Microscope of Reading And Measuring Microscope JJG 571-2004	(0～8)mm		*U=2.0μm*		
62	Measuring Microscope	Length	V.R. of Microscope of Reading And Measuring Microscope JJG 571-2004	X：(0～50)mm		*U=1.0μm*		
				Y：(0～13)mm				
63	Metallo scope	magnification ratio	C.S.for Metalloscope JJG(Education) 012-2013	（0.5～120）×		*Urel=1.0%*		
64	Biological Micro scopes	Length	C.S.for Biological Microscopes JJF 1402-2013	≤10mm		*U=4μm*		
		magnification ratio		（0.5～120）×		*U rel=1.0%*		
65	Stereomicroscope	magnification ratio	C.S.for Metalloscope JJG(Education) 012-2013	（0.5～120）×		*Urel=1.0%*		
66	Tool maker’s Microscope	Length	V.R. of Toolmaker's Microscopes JJG 56-2000	≤(400×300)mm		*U=(1.0+1.0L) μm L-m*		
67	Inductive Micro meters	Length	C.S. for Inductive Micrometers JJF 1331-2011	（-1000～+1000）μm		*U=0.4μm*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
68	Projector	Length	C.S. for Projectors JJF 1093-2002	≤(400×300)mm	≤(400×300)mm	*U=(1.0+3.5L)μm L-m*		
		Angel		(0～360)°		*U=2″*		
69	Projector/Vedio Measuring System	Length	C.S.for Projector/Vedio Measuring System JJF 1318-2011	≤(500×500)mm		*U =(1.0+1.5L)μm L-m*		
70	Coordinate Measuring Machine	Length	C.S. for Coordinate Measuring Machines JJF 1064-2010	(0～1000)mm		*U=(1.5+3L/1000)μm L:mm*		
71	Angle Gauge Blocks	Angle	V.R.of Angle Gauge Blocks JJG 70-2004	（0～90）°		*U=9″*		
72	Universal Bevel Protractor	Angle	V.R. of Universal Bevel Protractors JJG 33-2002	0° ～360°		*U=1′*		
73	Combined Type Angle Rules	Angle	C.S.for Combined Type Angle Rules JJF 1132-2005	（0～180）°		*U=3′*		
74	Electronlc Level Meter(Angle Gauge)	Angle	C.S.for Electronlc Level Meter JJF 1119-2004	（0～100）mm		*U=0.1°*		
75	Frame Level and Shaft Level	Angel	C.S.for Frame Level and Shaft Level JJF 1084-2002	(0.02～0.15)mm/m		*Urel=4.0 %*		
76	Calibrator for Level	Angel	V.R.of Calibrator for Level JJG 191-2002	≤1.5mm/m		*Urel=1.9%*		
77	Sine Bars	Angle	V.R.of Sine Bars JJG 37-2005	≤200mm		*U=2.0″*		
78	Square Chest	verticality	V.R.of Square Chest JJG 194-2007	(100～500)mm		*U=2.8μm*		
79	Vee Blocks	Parallelism	V.R.of Vee Blocks JISB 7540-1972	≤200mm		*U=0.9μm*		
		Perpendicnl				*U=1.2μm*		
		height difference				*U=1.2μm*		
80	Contact Type Interfero meter	Length	V.R.of Contact-type Interferometer JJG 101-2004	(0～180)mm		*U=0.01μm*		
81	Length Measuring Machine	Length	C.S.for Length Measuring Machine JJF 1066-2000	(0～1000)mm		*U=(0.5+5L)μm L-m*		

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82	Horizontal Metroscope	Length	V.R.of Horizontal Metroscope JJF 1189-2008	(0～500)mm	(0～500)mm	*U=(0.2+1.5L) μm L-m*		
83	Comparator of Machinery Type	Length	V.R.of Comparator of Machinery Type JJG 39-2004	（-300～+300） μm		*U=0.6μm*		
84	Micro-Kator	Length	V.R.of Micro-Kator JJG 118-2010	（-300～+300） μm		*U=0.2μm*		
85	Swing Tester	Length	C.S.for Concentricity Testers JJF 1109-2003	≤500mm		*U=1.5μm*		
86	Roundness Measuring Instrument	Roundness	V.R.for measuring standard instrument of roundness and cylindricity JJG 429-2000	≤500 μm		*Urel=2.0%*		
87	Test Sieve	Size	C.S.for Test Sieve JJF 1175-2007	20 μm～125mm	ω≤5mm	*U=2.0μm*		
					5mm＜ω≤125mm	*U=0.02mm*		
88	Pneumatic Measuring Instrument for Micrometer	Length	V.R.of Pneumatic Measuring Instrument for Micrometer JJG 356-2004	(0～400) μm		*U=0.26μm*		
89	Square Testers	verticality	C.S.for Square Testers JJF 1140-2006	（63～1000）mm		*U=1.0μm*		
90	Caliper for Welding Inspection	Length	V.R.of Caliper for Welding Inspection JJG 704-2005	≤100mm		*U=0.02mm*		
		Angle		≤160°		*U=5′*		
91	Toys Instrument	Length	Calibration Method for Toys Instrument Q/CTIC 02001-2013	≤1000mm		*U=(0.005+0.025L)mm L-m*		
		Angle		(0～360)°		*U=2′*		
		Weight		≤60N		*U rel=2%*		
92	Safety Tester of Household and Similar Electrical Appliances	Length	Calibration Method for Safety Tester of Household and Similar Electrical Appliances Q/CTIC 02002-2013	≤1000mm		*U=(0.005+0.025L)mm L-m*		
		Angle		(0～360)°		*U=2′*		
		Weight		≤60N		*Urel=2%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
93	Bimetallic Thermo- meter	Temperature	V.R. of Bimetallic Thermometer JJG 226-2001	(-30～+20)℃	(-30～+20)℃	*U=(0.5～0.3) ℃*		
				(20～95)℃		*U=0.4 ℃*		
				(95～300)℃		*U=(0.4～0.6) ℃*		
94	Filled System Thermometers	Temperature	V.R. of Filled System Thermometers JJG 310-2002	(-30～+20)℃		*U=(0.5～0.3) ℃*		
				(20～95)℃		*U=0.5 ℃*		
				(95～300)℃		*U=(0.5～0.6) ℃*		
95	Thermistor Thermometers	Temperature	Calibration Specification of Thermistor Thermometers JJF 1379-2012	(-30～+20)℃		*U=(0.25～0.10) ℃*		
				(20～95)℃		*U=(0.10～0.16) ℃*		
				(95～200)℃		*U=(0.16～0.18) ℃*		
96	Liquid-in-glass thermometers for working	Temperature	Verification Regulation of Liquid-in-Glass Thermometers for Working JJG 130-2011	(-30～+20)℃		*U=(0.12～0.07) ℃*	Accredited only for the common type thermometer	
				(20～95)℃		*U=(0.06～0.10) ℃*		
				(95～300)℃		*U=(0.10～0.20) ℃*		
97	Liquid-in-Glass Thermometers for Petroleum Product	Tempreture	V.R.of Liquid-in-Glass Thermome-ters for Petroleum Product JJG 130-2011	(-30～+20)℃		*U=(0.12～0.07) ℃*	Accredited only for the common type thermometer	
				(20～95)℃		*U=(0.06～0.10) ℃*		
				(95～300)℃		*U=(0.10～0.20) ℃*		
98	Electric Contact Mecury-in-Glass Thermometers	Tempreture	V.R.of Electric Contact Mecury-in-Glass Thermometers JJG 131-2004	(-30～+20)℃		*U=(0.12～0.07) ℃*		
				(20～95)℃		*U=(0.06～0.10) ℃*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
98	Electric Contact Mecury-in-Glass Thermometers	Tempreture	V.R.of Electric Contact Mecury-in-Glass Thermometers JJG 131-2004	(95～300)℃	(95～300)℃	*U=(0.10～0.20) ℃*		
99	Industry Platinum/Copper Resistance Thermometers	Tempreture	V.R. of Industry Platinum Copper Resistance Thermometers JJG 229-2010	(-40～+300)℃		*0 ℃: U=0.07 ℃ 100 ℃: U=0.10 ℃*	Except for Class AA	
100	Working Base Metal Thermocouple	Tempreture	V.R. of Working Base Metal Thermocouple JJG 351-1996	(-30～+300)℃		*U=0.3 ℃*		
				(300～1000)℃		*U=1.6 ℃*		
101	Sheathed Thermocouples	Temperature	Calibration Specification for Sheathed Thermocouples JJF 1262-2010	(-80~+300)℃		*U=(0.7~0.9) ℃*		
				(300~1100)℃		*U=(0.9~1.5) ℃*		
102	Radiation Thermometers	Radiation Tempreture	V.R. of the Working Radiation Thermometers below 500℃ JJG 856-1994	(50～500)℃; wavelength:(8～14)μm		*U=(1.8～3.3) ℃*		
103	Thermal imagers	Radiation Tempreture	V.R.of Thermal imagers JJF 1187-2008	(50～500)℃ wavelength:(8～14)μm		*U=(1.8～3.3) ℃*		
104	Thermograph and hygrometer	Temperature	V.R.of Mechanical Thermohygrometers JJG 205-2005	(5～50)℃		*U=0.5 ℃*		
		Humidity		(20～95)%RH		*U=(1.5～1.6)%RH*		
105	Digital hygrometer (digital temperature and humidity recorder)	Temperature	V.R.of Mechanical Thermohygrometers JJG 205-2005 Calibration Specification of humidity sensors JJF 1076-2001	（5～50）℃		*U=0.3 ℃*		
		Humidity		（20～70）%RH		*U=(1.8～1.7)%RH*		
				（70～98）%RH		*U=(1.7～1.8)%RH*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
106	Digital Thermometers	Temperature	V.R. of Digital Temperaure Indicators And Controllers JJG 617-1996	(-200～0)℃	(-200～0)℃	*U=(0.4～0.3) ℃*		
				(0～1300)℃		*U=(0.3～0.6) ℃*		
107	Digital Thermometers (With probe)	Temperature	Calibration Specification for Digital Thermometer JJF(su) 95-2010	(-30~+100) ℃		*U=(0.3~0.2) ℃*		
				(100~300)℃		*U=(0.2~0.3) ℃*		
108	Temperature Indication Controller	Temperature	V.R.of Temperature Indication Controller JJG 874-2007	(-30～ +20)℃		*U=(0.21～0.11) ℃*		
				(20～95)℃		*U=(0.11～0.17) ℃*		
				(95～300)℃		*U=(0.17～0.23) ℃*		
109	Digital Temperature Indicators	Temperature	V.R. of Digital Temperaure Indicators And Controllers JJG 617-1996	(-200～0)℃		*U=(0.4～0.3) ℃*		
				(0～1800)℃		*U=(0.3～0.7) ℃*		
110	Analogue Temperature Indicator and controller with Thermo- resister	Temperature	V.R. of Analogue Temperature Indicators and Controllers JJG 951-2000	(0~800)℃		*U=(0.29～0.60) ℃*		
111	Analogue Temperature Indicator and controller with Thermo- couples	Temperature	V.R. of Analogue Temperature Indicators and Controllers JJG 951-2000	(0~1300)℃		*U=(0.8～1.3) ℃*		
112	Constant Temperature and Humidity Box	Temperature	C.S. for the Equipment of the Environmental Testing for Temperature and Humidity JJF 1101-2003	(-80～ +180)℃		*U=0.3 ℃*		
		Humidity		(0～ 100)%RH		*U=1.5%RH*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
113	Constant Temperature Box	Temperature	C.S. for the Equipment of the Environmental Testing for Temperature and Humidity JJF 1101-2003	(-80～+300)℃	(-80～+300)℃	*U=(0.5～0.4) ℃*		
				(0～300)℃		*U=(0.4～1.7) ℃*		
114	Salt Fog Testing Box	Temperature	C.S. for the Equipment of Salt Fog Testing Box JJF(liao) 75-2009	（30～75）℃		*U=(0.21～0.26) ℃*		
		Salt Fog Sinking Rate		(1~2)ml /(80cm2.h)		*U=0.2ml/ (80cm2·h)*		
115	Steam aging test chanber	Temperature	C.S. for the Equipment of the Environmental Testing for Temperature and Humidity JJF 1101-2003	(0~98)℃		*U=(0.3~0.4) ℃*		
116	UV aging test chamber(xenon lamp aging test chamber)	Temperature	C.S. for the Equipment of the Environmental Testing for Temperature and Humidity JJF 1101-2003	(20~150)℃		*U=0.4 ℃*	Except for Uvirradiance	
117	Sand and dust test chamber	Temperature	Calibration Specification for Dust and Sand testing Equipments JJF(jungong）18-2012	(30~80)℃		*U=0.4 ℃*		
		Wind Speed		(0~10)m/s		*U=0.3m/s*		
		Amount of dust and sand		(0～20)g/(m2 •d)		*U=(0.3～0.6)g/(m2 • d)*		
118	thermostatic water bath	Temperature	Calibration method for Electrically-heated thermostatic water bath Q/CTIC 02033-2013	Room temperature to ～95℃		*U=(0.21～0.25) ℃*		
		Rotate Speed		(40～200)rpm		*U=(0.17～0.23)rpm*		
119	Hot-silk Tester	Temperature	Calibration method for Hot-silk Tester Q/CTIC 111-2013	(550～1100)℃		*U=（1.9~2.1） ℃*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
119	Hot-silk Tester	Length	Calibration method for Hot-silk Tester Q/CTIC 111-2013	(0～200)mm	(0～200)mm	*U=（0.09~0.35）mm*		
		Time		(0～180)s		*U=0.1s*		
		Weight		(0～2)kg		*U=(0.04~0.06)g*		
120	Burning Tester	Length	Calibration method for Burning Tester Q/CTIC 107-2013	(0~200)mm		*U=(0.09~0.35)mm*		
		Angle		(0~180)°		*U=(0.15~0.18)°*		
		Time		(0~180)s		*U=0.1s*		
121	Thermostatic Bath	Tempreture	Measurement and Test Norm of Thermostatic Bath's Metrological Characteristics JJF 1030-2010	(-80～+300)℃		*U=0.015 ℃*		
122	Clear up setting	Tempreture	C.S. for the Equipment of the Environmental Testing for Temperature and Humidity JJF 1101-2003	（-30～+650）℃		*U=（0.24～0.28）℃*		
123	Mobile Detecting Meter of Temperature	Tempreture	V. R. of Calibration Specification for Temperature Itinerant Detecting Instrument JJF 1171-2007	(-80～0)℃		*U=(0.18～0.10) ℃*		
				(0～300)℃		*U=(0.10～0.17) ℃*		
124	Low-temp brittlement tester	Temperature	Calibration method for low-temp Embrittlement testing machine Q/CTIC 02023-2010	（-70～room temperature）℃		*U=(0.33～0.16) ℃*		
125	Paperless Recorder	Temperature	Verification Regulation of Paperless Recorder JJG（Jing）36-2004	(-200～+300)℃		*U=0.3 ℃*		
				(300～1300)℃		*U=0.4 ℃*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
126	Ageing tester、oven	Temperature	C.S. for the Equipment of the Environmental Testing for Temperature and Humidity JJF 1101-2003	(-30～+800)℃	(-30～+800)℃	*U=(0.4～1.7) ℃*		
127	Tunnel Furnace (wave, reflow furnace)	Temperature	Calibration method for Tunnel Furnace (reflow, wave furnace) Q/CTIC 02034-2013	(room temperature～1100)℃		*U=(1.6~2.0) ℃*		
128	Box-type resistance furnace (muffle furnace)	Temperature	box-type resistance furnace calibration standard JJF 1376-2012	(room temperature～+1100)℃		*U=(0.8～1.2) ℃*		
129	Colour fastness to washing tester	Length	Test for color fastness to washing machine test procedures JJF（spinning）026-2010	（0～300）mm		*U=(0.13~0.41) mm*		
		Rotate Speed		（0～300）r/min		*U=(0.7~3.3) r/min*		
		time		（0～3600）s		*U=0.1s*		
		Temperature		（0～95）℃		*U=(0.31~0.34) ℃*		
130	Vicat heat distortion test machine	Temperature	Calibration method for Vicat heat distortion test machine Q/CTIC 02022-2013	（0～300）℃		*U=(0.33～0.40) ℃*		
		Weight		（50～2000）g		*U=(0.18~0.19)g*		
		Length		（0.1～20）mm		*U=(0.84~0.89)μm*		
131	Experiment with the laundry, dryer	Temperature	Calibration method for experiment with the laundry, dryers Q/CTIC 02024-2013	（0～120）℃		*U=(0.31～0.39) ℃*		
		Rotate speed		(0～1000)r/min		*U=(1.3~10.1) r/min*		
		Time		(0～3600)s		*U=(0.09~0.25)s*		
		Water High		(0~300)mm		*U=(0.30~0.46)mm*		
		Water Weight		(5~25)gal		*U=(0.28~0.42)gal*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
132	Ironing, sublimation fastness meter	Temperature	Ironing sublimation fastness tester test procedures JJF（spinning）029-2012	Room temperature ～210℃	Room temperature ～210℃	*U=1.7 ℃*		
		Time		（30～3600）s		*U=(0.22～0.35)s*		
		Force		16N		*U=0.42N*		
		Length		（1～2）mm		*U=0.03mm*		
133	Melting- Point-Measuring Instruments	Temperature	V.R.of Melting-Point- Measuring Instruments JJG 701-2008	(50～285) ℃		*U=0.3 ℃*		
134	Heating Plate	Temperature	Calibration method for Heating Plate Q/CTIC 02026-2013	(50~100)℃		*U=1.6 ℃*		
				(100~350)℃		*U=1.7 ℃*		
135	Temperature Indicators and Simulators by Electrical Simulation and Measurement	Temperature	Calibration Specification of Temperature Indicators and Simulators by Electrical Simulation and Measurement JJF 1309-2011	TC measurement：(-200~+1300)℃		*U=(0.15~0.23) ℃*		
				TC output r：(-200~1300)℃		*U=(0.13~0.21) ℃*		
				RTD measurement：(-200~+800)℃		*U=(0.10~0.15) ℃*		
				RTD output ：(-200~+800)℃		*U=(0.11~0.15) ℃*		
136	Nonself-indicating weighing instrument	Mass	V.R. of nonself-indicating weighing instrumen JJG 14-1997	20g～10kg		*U=(1～2）g*		
				10kg～100kg		*U=(2～20）g*		
				100kg～1000kg		*U=20g～0.2kg*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
137	Digital Indicating Weighing Instruments	Mass	V.R.of Digital Indicating Weighing Instruments JJG 539-1997	0.02g～3kg	0.02g～3kg	*U=3mg～0.15g*		
				3kg～30kg		*U=(0.15～3)g*		
				30kg～300kg		*U=(3～20)g*		
				300kg～1500kg		*U=20g～0.35kg*		
				1500kg～3000kg		*U=(0.35～0.80)kg*		
138	Analogue indicating weighing instrument	Mass	V.R.of analogue indicating weighing instrument JJG 13-1997	2g～10kg		*U=(0.5～10)g*		
				10kg～30kg		*U=(10～30)g*		
				30kg～100kg		*U=30g～0.10kg*		
139	Table Balances	Mass	V.R. of Table Balances JJG 156-2004	≤5 kg		*U=0.3d*		
140	Non-automatic balance	mass	V.R. of Electronic Balance JJG 1036-2008	1mg～500mg		*U=(0.06～0.10)mg*		
				500mg～1g		*U=(0.10～0.12)mg*		
				1g～500g		*U=(0.12～0.20)mg*		
				500g～1kg		*U=(0.20～13)mg*		
				1kg～30kg		*U=13mg～0.2g*		
			V.R. of Mechanical balance JJG 98-2006	1mg～500mg		*U=(0.02～0.08)mg*		
				500mg～1g		*U=(0.08～0.10)mg*		
				1g～500g		*U=(0.10～2.5)mg*		
				500g～1kg		*U=(2.5～5.0)mg*		
				1kg～30kg		*U=5.0mg～0.3g*		
141	Weights	Mass	V.R.of Weights JJG 99-2006	1mg～500mg		*U=(0.02～0.07)mg*		
				500mg～1g		*U=(0.07～0.08)mg*		
				1g～500g		*U=(0.08～2.4)mg*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
141	Weights	Mass	V.R.of Weights JJG 99-2006	500g～1kg	500g～1kg	*U=(2.4～4.6)mg*		
				1kg～25kg		*U=4.6mg～0.14g*		
142	Moisture Meters	Mass	V. R.of Thermogravimetric Moisture Meters JJG 658-2010	1mg～20kg		*U=4d*		
		Moisture		0%～100%		*Urel=0.05%*		
143	Working Dynamometers	Force	V.R. of Working Dynamometer JJG 455-2000	≤5000N		*Urel=0.3%*		
144	Pendulum Impact Testing Machine	Torque	V.R. of Pendulum Impact Testing Machine JJG 145-2007	≤500J		*Urel=0.15%*		
		Distance between Impact Point and Axis lin		≤1m		*Urel=0.15%*		
145	Cantilever-Beam (Izod -Type)Impact Testing Machine	Torque	V.R. of Cantilever-Beam (Izod -Type) Impact Testing Machine JJG 608-1989	≤100J		*Urel=0.15%*		
		Distance between Impact Point and Axis lin		≤1m		*Urel=0.15%*		
146	Dynamometer for Measuring Instrument	Force	V.R. of Working Dynamometer JJF 1134-2005	(0.1～20)N		*Urel=0.4%*		
147	Flexure Testing Machine	Force	V.R. of Flexure Testing Machine JJG 476-2001	≤50kN		*Urel=0.3%*		
148	Universal tension and compression testing machine	Force	V.R. of universal tension and compression testing machine JJG 139-2014	≤0.5N～200kN		*Urel=0.3%*	1% and below	
149	Tension compression and universal testing machine for non-metallic	Force	V.R. of universal tension and compression testing machine JJG 139-2014	≤0.5N～200kN		*Urel=0.3%*	1% and below	
		Length		(0～1000)mm		*Urel=0.10%*		

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149	Tension compression and universal testing machine for non-metallic	Speed	V.R. of universal tension and compression testing machine JJG 139-2014	(0.1～1000)mm/min	(0.1～1000)mm/min	*Urel=0.06%*	1% and below	
150	Electronic universal testing machine	Force	V.R. of Electronic universal testing machine JJG 475-2008	≤0.5N～200kN		*Urel=0.3%*	except for proper alignment	
		Length		(0～1000)mm		*Urel=0.10%*		
		Speed		(0.1～1000)mm/min		*Urel=0.06%*		
151	Spring Tension and Compression Testing Machine	Force	C.S.for Working Force Measuring Machine for Special Purposes JJF 1134-2005	≤200kN		*Urel=0.3%*		
152	Push-pull wirel tester	mass（force）	V.R. of Working Dynamometer JJG(Light industry) 49-2000	（1～200）kg		*Urel=0.3%*		
153	Compressing strength tester	Force	Compression strength testerfor Board JJG(Light industry) 49-2000	（0.5～3000）N		*Urel=0.3%*		
154	Compression Strength Tester for Corrugated Box	Force	Compression Strength Tester for Corrugated Box JJG(Light industry) 115-2000	（0～50）KN		*Urel=0.4%*		
155	Vickers Hardness Tester	Hardness	V.R. of Metal Vickers Hardness Testers JJG 151-2006	(100～1000)HV		*Urel=（1.1～2.0）%*		
156	Metallic Webster Hardness Testing Machine	Hardness	V.R. of Metallic Webster Hardness Testing Machine JJG 944-2013	(1-20)HW		*Urel=0.4 HW*		
157	Micro-hardness meter	Hardness	V.R. of Metal Vickers Hardness Testers JJG 151-2006	(100～1000)HV		*Urel=（1.4～3.5）%*		

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158	Rubber thickness testing machine	Length	V.R.of rubber thickness testing machine JJG(Chemical) 104-1991	(0～100)mm	(0～100)mm	*U=0.01mm*		
159	Shore document	Hardness	V.R. of shore document JJG 304-2003	(10～100)HA		*U=0.4HA*		
		Geometrical Dimension		(0～200)mm		*U＝0.005mm*		
160	rubber document	Length	V.R.of The Shore D Durometer JJG 1039-2008	(0～100)HD		*U=0.4 HD*		
		Force		(0～200)mm		*U=0.004mm*		
161	Brinell Hardness Tester	Hardness	V.R.of Metallic Brinell Hardness Testers JJG 150-2005	≤125HBW		*Urel=1.3%*		
				（125～225）HBW		*Urel=1.1%*		
				(225～650)HBW		*Urel=1.0%*		
162	Equotip Hardness Tester	Hardness	V.R.of Leeb Hardness Tester JJG 747-1999	(500～800) HLD(G)		*530±40 U=3.3 HLD 630±40 U=3.7 HLD 790±40 U=4.5 HLD*		
163	Rockwell hardness testing machine	Hardness	V.R.of rockwell hardness testing machine JJG 112-2013	(75~88)HRA		*U=0.6HRA*		
				(80~100)HRB		*U=0.8HRB*		
				(20~30)HRC		*U=0.6HRC*		
				(30~50)HRC		*U=0.6HRC*		
				(50~70)HRC		*U=0.5HRC*		
164	Superficial Rockwell Hardness Tester	Rockwell Hardness Value	V.R.of the Metal Superficial Rockwell Hardness Tester Transmitter JJG 112-2013	（89～91）HR15N		*U=0.6 HRN*		
				（42～80）HR30N		*U=0.6HRN*		

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164	Superficial Rockwell Hardness Tester	Rockwell Hardness Value	V.R.of the Metal Superficial Rockwell Hardness Tester Transmitter JJG 112-2013	（62～70）HR45N	（62～70）HR45N	*U=0.7HRN*		
				（87～93）HR15T		*U=0.8HRT*		
				（70～82）HR30T		*U=0.7HRT*		
				（45～72）HR45T		*U=0.6HRT*		
165	Tachometer	Rotation Speed	V.R. of Tachometers JJG 105-2000	(20～30000) r/min		*U=(0.06～15)r/min*		
				(20～30000) r/min		*Urel=0.1%*		
166	Constant Acceleration Centrifugal Test Machines	Rotate speed	V.R.of Constant Acceleration Centrifugal Test Machines JJG 972-2002	(1~99999) r/min		*Urel=0.7%*		
		Error of Indication		(1～99999) m/s2		*Urel=2.7%*		
167	Bourdon tube pressure gauge	Pressure	Verification Ragulation of Elastic Element Pressure Gauges,Pressure-Vacuum Gauges and Vacuum Gauges JJG 52-2013	(-0.1～+60)Mpa		*Urel=0.5%*		
168	Bourdon Tube Precision Pressure Gauge and Vacuum Gauge	Pressure	V.R.of Bourdon Tube Precision Pressure Gauge and Vacuum Gauge JJG 49-2013	(-0.1～+60)Mpa		*Urel=0.1%*		
169	differential pressure gauge	Pressure	Verification Ragulation of Elastic Element Pressure Gauges,Pressure-Vacuum Gauges and Vacuum Gauges JJG 52-2013	(-0.1～+60)MPa		*Urel=0.5%*		
170	Bellows pressure gauge	Pressure	Verification Ragulation of Elastic Element Pressure Gauges,Pressure-Vacuum Gauges and Vacuum Gauges JJG 52-2013	(-0.1～+60)MPa		*Urel=0.5%*		

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171	Digital Pressure Gauges	Pressure	V.R.of Digital Pressure Gauges JJG 875-2005	(-0.1～+60) Mpa	(-0.1～+60) Mpa	*Urel= 0.1%*		
172	Pressure controller	Pressure	V.R.of Pressure Controller JJG 544-2011	(-0.1～+60) MPa		*Urel=0.2%*		
173	Pressure Transmitters	Pressure	V.R.of the Pressure Transmitter JJG 882-2004	(-0.1～+60) MPa		*Urel=0.1%*		
174	Calibrating Instrument for Torque Wrenches	Torque	V.R. of Calibrating Instrument for Torque Wrenches JJG 797-2013	(0.04～100) N.m		*Urel=0.4%*		
175	Torque Wrenches	Torque	V.R. of Torque Wrenches JJG 707-2014	(0.001～1000)N・m		*Urel=(1.2～1.6)%*		
176	Power Measurin Machine	Torque	V.R of Equipment of Power Measuring JJG 653-2003	（0.01～500）Nm		*Urel=0.5%*		
		Rotate speed		（100～20000）r/min		*Urel=0.2%*		
177	Crock meter	Speed	V.R. of the Fiber cutter JJF(textile industry) 027-2010	（0～3000）r/min		*U=1.2r/min*		
		Length		（0～200）mm		*U=0.06mm*		
		Force		（0～250）N		*Urel=1.0%*		
		Length		（0～200）mm		*U=0.34mm*		
178	Tester of Color fastness to Perspiration	Length	V.R. of Tester of Color fastness to Perspiration JJF (textile industry) 028-2010	（0～200）mm		*U=(0.05～0.10)mm*		
		Force		(0～300)N		*Urel=0.2%*		
179	Woven Pilling Tester	Length	V.R. of Woven Pilling Tester JJG(textile industry) 040-1990	Φ(0～200)mm		*U=(0.05～0.2)mm*		
		Speed		(0～3000)r/min		*Urel=1.0%*		
		Force		(100～500)cN		*Urel=0.1%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
180	Fabrics Abrasion Resistance Apparatus	Rotate Speed	V.R. of Fabrics Abrasion Resistance Apparatus JJF(textile industry) 036-2012	(0～1000)r/min	(0～1000)r/min	*Urel=1.0%*		
		Mass of hammer		（0.5～6200）g		*U＝0.4g*		
181	Plug wire static pull tester	Speed	Calibration Method for Plug class specialized instruments Q/CTIC 104-2008	(0～300)mm/min		*Urel=0.2%*		
		Force		(0.4～9.072) kg		*U=(0.8～1.3)g*		
182	Plug roller tester	Speed	Calibration Method for Plug class specialized instruments Q/CTIC 104-2008	(0～5)r/min		*U=0.4r/min*		
183	Plug wire bending tester	Mass	Calibration Method for Plug class specialized instruments Q/CTIC 104-2008	（10~500）g		*U=(0.13～0.31)g*		
		Angle		（0~90）°		*U=0.3°*		
		Speed		(20～1000)r/min		*U=（0.6～2）r/min*		
184	MIT bending tester	Force	MIT bending tester JJG(Light industry) 59-2000	（0～980）N		*U=0.16N*		
		Angle		(0～180)°		*U=11′*		
		Speed		（0～3000）r/min		*U=3.4 r/min*		
185	Initial Stickiness tester	Angle	Calibration Method for Initial Stickiness tester Q/CTIC 109-2008	(0～90)°		*U=0.4°～1.0°*		
		Length		(0～200)mm		*U=0.006mm*		
186	Screen Tonometer	Force /Length	Calibration Method for Screen Tonometer Q/CTIC 112-2008	(7～60)N/cm		*Urel=1.0%*		
187	Friction testing machine	Mass	Calibration Specification for Friction testing machine Q/CTIC 02015-2014	（0.002～30）kg		*U=（0.16～2.1） g*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
187	Friction testing machine	Speed	Calibration Specification for Friction testing machine Q/CTIC 02015-2014	（0～1000）mm/min	（0～1000）mm/min	*Urel= 0.6 %*		
		distance		（0～1000）mm		*Urel= 0.5 %*		
		Force value		（0～2）kN		*Urel= 0.6 %*		
		Rotate speed		（0～10000）r/min		*Urel= 0.7 %*		
		Counting Meter		(0～50000)r		*U=0.6r*		
188	Leathe trends waterproof tester	Speed	Calibration Method for Leathe trends waterproof tester Q/CTIC 105-2008	50 r/min		*U=0.6 r/min*		
189	Tape friction tester	Mass	Calibration Method for Tape friction tester Q/CTIC 02012-2010	(0～500)g		*U＝(1.1～2.4)g*		
		Rotate Speed		（0~1000）rpm		*U＝0.8rpm*		
190	Sharp edge tester	Mass	Calibration Method for Sharp edge tester Q/CTIC 102-2008	(453.6～907.2)g		*U=(7～22)g*		
		Length		（1.0～25）mm		*U=0.011mm*		
		Speed		（23±4）mm/s		*U=0.9mm/s*		
191	Film pencil scratch hardness tester	Force	Calibration Method for Film pencil scratch hardness tester Q/CTIC 02010-2010	（0～6200）g		*U＝(2.2～4.0)g*		
		Angle		（0～90）°		*U＝0.35°*		
192	Cement sand-glue Amalgamator	Speed	Cement sand-glue amalgamato JJG（building materials）102-1999	(57～295)r/min		*U=0.8r/min*		
193	Mixer for Cement paste	Speed	V.R of Mixer for Cement Paste JJG(building materials) JJG(building materials) 104-1994	（10~999）r/min (10～285)mm		*U=1.0r/min，U=(0.02～0.06)mm*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
194	Inspecting Specification for Apparatus of Fluidity of Cement Mortar	Leagth	Inspecting Specification for Apparatus of Fluidity of Cement Mortar JJG(building materials) 126-1999	（18~285）mm	（18~285）mm	*U=(0.02～0.04)mm*		
		Mass		(3440~3460) g		*U=0.3 g*		
195	Bursting Strength Tester	Pressure	Bursting Strength Tester for Paper and Board JJG（Light industry）61-2000	（0~10）Mpa		*Urel=0.13%*		
196	AKRON wearing tester	Force	AKRON wearing tester JJG(chemical industry) 103-1991	（0.5～200）N		*U＝0.10N*		
		Rotate Speed		（0～1000）r/min		*U＝0.6r/min*		
		Hardness		(0～100)HA		*U＝1.2HA*		
		Length		(0～200)mm		*U＝0.06mm*		
197	Paint film swing hardness tester	Mass	Calibration Method for Paint film swing hardness tester Q/CTIC 100-2008	(120～500）g		*U=0.07g*		
		Time		（250～440）s		*U=1.5s*		
198	Falling-pendulum Apparatus for Tearing Strength of Fabric	Force	Falling-pendulum Apparatus for Tearing Strength of Fabric JJG(textile industry) 060-1995	（0.5～64）N		*U=0.4d*		
199	Paper smoothing tester	Vacuum	Smoothing tester Paper for Paper Board JJG(Light industry) 62-2000	（-0.1～0）Mpa		*Urel=0.15%*		
200	Adhesive tape retentivity tester	Mass	V.R.of Weights JJG 99-2006	≤1000g		*U=0.6g*		
201	Flow Display	Flow	V.R. of flow intergration meters JJG 1003-2005	DC（0～5）V，（1～5）V，（0～10）mA（4～20）mA		*Urel=0.2%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
202	Digital Electrodynamic Vibration Testing System	Accelera	V.R.of Digital Electrodynamic Vibration Testing System JJG 984-1999	(0.1-103)m/s2	(0.1-103)m/s2	*Urel=(2.4～3.0)%*		
		Frequenc		(1～5000)Hz		*Urel=(0.12～0.14)%*		
203	Electrodyna- mic Vibration Generator For Testing	Acceleration	V.R.of Electrodyna- mic Vibration Generator for Testing JJG 190-1997	(0~1000)m/s2		*Urel=(2.4～3.0)%*		
		Frequenc		(1～5000)Hz		*Urel=(0.12～0.14)%*		
204	Mechanical iElectrodyna- mic Vibration Generator For Testing	Displacement	V.R.of Mechanical Vibration Generator for Testin JJG 189-1997	5μm ～ 100mm		*Urel=4.0%*		
		Acceleration		(0~1000)m/s2		*Urel=(2.4～3.0)%*		
		Frequenc		(1～5000)Hz		*Urel=(0.12～0.14)%*		
205	Simulation Test-bed for Road Transportation	Displacement	Calibrating Specification for Simulation Test-bed for Road Transportation JJF 12710-2010	5μm ～ 100mm		*Urel=4.2%*		
		Acceleration		(0~1000)m/s2		*Urel=4.5%*		
		Frequenc		(0.5～ 400)Hz		*Urel=(0.2～0.3)%*		
206	Shock Testing Machine	Acceleration	V.R.of Falling Body Type Shock Testing Machines JJG 541-2005	Impact Acceleration: 2.5×105 m/s2		*Urel=4.5%*		
		Pulse Width		Pulse width (0.5～30)ms		*Urel=3.5%*		
207	Spring impactor	Energy	Calibration Method of Spring impactor Q/CTIC 02025-2013	(0～2) J		*Urel=3.6%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
208	Temperature /Humidity/Vibration combined Environmental Testing System	Temperature	Calibration Specification For Temperature /Humidity/Vibration combined Environmental Testing System JJF 1270-2010	(-80～+180)℃	(-80～+180)℃	*U=0.3 ℃*		
		Humidity		(0～100)%RH		*U=1.5%RH*		
		Acceleration		(0~1000)m/s2		*Urel=(2.4～3.0)%*		
209	pH Meter	Acidity	V.R. of Laboratory pH Meter JJG 119-2005	(0~14) pH		*meter: U=0.001pH*		
						instrument：U=0.006pH		
		Voltage		(-2000~2000)mV		*U=0.2mV*		
210	Electrolytic Conductance Meter	Electrolytic Conductance	V.R. of Electrolytic Conductance Meter JJG 376-2007	meter: (0.05~105) μS		*Urel=0.3 %*		
				instrment:(0~105)μS/cm		*Urel=0.4 %*		
211	Wood Moisture Content Measuring Meters	Wood Moisture Content	V.R. of Wood Moisture Content Measuring Meters JJG 986-2004	(4~36)%		*U=0.4%*		
212	Extrusion Plasto meter	Load	V.R.of Extrusion Plastometer JJG 878-1994	Load：(0~200)g		*U=0.1g*		
				Load：(200~1000)g		*U=0.5g*		
				Load：(1~30)kg		*U=1g*		
		Flowing Rate		Extrusion Plasto: (0~25) g/10min		*Urel=4%~7%*		
213	Volumetric Glass	Capatility	V.R.of General Volumetric Glass JJG 196-2006	(0.1~10)mL		*U=0.003mL*		
				(10~100)mL		*U=0.01mL*		
				(100~500)mL		*U=0.05mL*		
				(500~2000)mL		*U=0.12mL*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
214	Quantitative AdjustablePipet	Capability	V.R. of Quantitative Adjustable JJG 646-2006	(10~100)μL	(10~100)μL	*U=0.4μL*		
				(100~1000)μL		*U=1μL*		
				(1000~10000)μL		*U=5μL*		
				(10~50)mL		*U=25μL*		
215	Hydrometers	Consistency	V. R. of Working Glass Hydrometers JJG 42-2011	(0.650~1.400)g/cm3		*U=0.0005 g/cm3*		
216	Beaumemetre	Consistency	V. R. of Working Glass Hydrometers JJG 42-2011	(0~40) Bh		*U=0.04Bh*		
217	Rotational Viscometer	Viscoelasticity	V.R. of Rotational Viscometer JJG 1002-2005	(1~10) mPa·s		*Urel=3%*		
				(20~100) mPa·s		*Urel=2%*		
				(200~1.5×10 6) mPa·s		*Urel=1%*		
218	Flow Cups Viscose Meter	Viscoelasticity	V.R. of Flow Cups Viscose Meter JJG 743-1991	(2~700) mm2/s		*Urel=2%*		
219	Engler Viscosi-meter	Receive Time	V.R.of Engler Viscosimeter JJG 742-1991	(51±1)s		*U＝0.2s*		
220	Dope Viscosi-meter	Viscose	V.R. of Flow Cups Viscose Meter Q/CTIC 007-2008	(2~600) mm2/s		*Urel=2%*		
221	Cup for Dope Specific Gravity	Capatility	Calibration Method for dope Specific Gravity Q/CTIC 008-2008	(10~100)mL		*U=0.02mL*		
				(100~1000) mL		*U=0.08mL*		
222	Atmosphere Sampler	Flow	V.R.of Air Sampler JJG 956-2013	(0.02~6.0)L/min		*Urel=2%*		
223	Dust Sampler	Flow	V.R. of Dust Sampler JJG 520-2005	(0.2~150)L/min		*Urel=2%*		
224	Dust Particles Counts	Number of dust	V.R. of Dust Particles Counts JJF 1190-2008	(0.3~0.5)μm		*Urel=15%*		
225	laminar clean bench	cleanliness classes	Calibration Method for laminar clean bench Q/CTIC 006-2007	(100～10000)level		*Urel =15%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
226	Visible Range Spectrophotomet-er	Wavelength	V.R. of Ultraviolet,Visible,Near-Infrared Spectrophotometer JJG 178-2007	(360~810)nm	(360~810)nm	*U=0.3nm*		
		Transmittance		(0~100)%		*Urel =0.6%*		
227	Ultraviolet Visible Range Spectrophot-ometer in Single Beam	Wavelength	V.R. of Ultraviolet,Visible,Near-Infrared Spectrophotometer JJG 178-2007	(195~810)nm		*U=0.3nm*		
		Transmittance		(0~100)%		*Urel =0.6%*		
228	Double Beam UV -VIS Spectrophot-ometers	Wavelength	V.R. of Ultraviolet,Visible,Near-Infrared Spectrophotometer JJG 178-2007	(195~810)nm		*U=0.3nm*		
		Transmittance		(0~100)%		*Urel =0.6%*		
229	Fluore scence Spectrophot-ometer	Detection limi	V.R. of Fluorescence Spectrophoto-meter JJG 537-2006	≤1×10-8 g/mL		*U=0.003μg/mL*		
230	Atomic Fluores -cence Spectro -meter	Detection limit	V.R. of Non-disperse Atomic Fluorescence Spectrometer JJG 939-2009	As,Sb,Hg		*U=0.1ng*		
231	Atomic Absorption Spectrophot-ometer	Measure Limit	V.R. of Atomic Absorption Spectrophotometer JJG 694-2009	Measuring Copper by Flame Method		*U=0.005μg/ml*		
				Measuring Cadmium by G.A		*U=0.5pg*		
232	Cold Atomic Absorption Analyzer	Detection Limit	V.R.of Mercury Analyzers JJG 548-2004	Hg ≤ 1.0ng/mL		*U=0.2ng/mL*		
233	Atomic Fluorometerfor Determination of Mercury	Detection Limit	V.R.of Mercury Analyzers JJG 548-2004	Hg≤0.1 ng/mL		*U=0.03ng/mL*		
234	Carbon- sulfur Analyzer	Concentration	V.R.of Carbonsulfur Analyzer JJG 395-1997	C:(0.001~0.010)%		*U=0.0004%*		
				C:(0.01~0.10)%	C:(0.010~0.0100)%	*U=0.003%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
234	Carbon- sulfur Analyzer	Concentration	V.R.of Carbonsulfur Analyzer JJG 395-1997	C:(0.1~1.0)%	C:(0.100~1.000)%	*U=0.005%*		
				C:(1~3)%	C:(1.00~3.00)%	*U=0.02%*		
				S:(0.001~0.010)%	S:(0.001~0.010)%	*U=0.0005%*		
				S:(0.01~0.010)%	S:(0.01~0.010)%	*U=0.002%*		
				S:(0.1~0.3)%	S:(0.1~0.3)%	*U=0.004%*		
235	COD Detector	Concentra-tion	V.R.for COD Detector JJG 975-2002	(0~5000)mg/L		*Urel =3%*		
236	Gas Chromato-graph	Sensitivity	V.R. of Gas Chromatograph JJG 700-1999	TCD		*Urel=6%*		
		Detection Limit		FID		*Urel=5%*		
				FPD				
				NPD				
				ECD				
237	Liquid Chromato-graph	Concentration	V.R. of Liquid Chromatographs JJG 705-2014	UVD、PDA ≤5×10-8g/mL		*Urel =9%*		
				FLD ≤5×10-9g/mL		*Urel =9%*		
				RID ≤5×10-6g/mL		*Urel =10%*		
				ELSD ≤5×10-6g/mL		*Urel =10%*		
238	Liquid Chromatography-Mass Spectrometers	Signal-to-noise Ratio	V.R of Calibration Specification for Liquid Chromatography-Mass Spectrometers JJF 1317-2011	≥10：1		*Urel=11%*		
239	Gas chromato-graphmass spectro-meter(GC/MS)	SNR	C.S.of GC/MS JJF 1164-2006	≥10：1		*Urel=5%*		
240	Ion Chromato-graph	Concentration	V.R.of Ion Chromato-graph JJG 823-2014	Cl-: ≤0.02 μg/mL		*Urel =14%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
240	Ion Chromato-graph	Concentration	V.R.of Ion Chromato- graph JJG 823-2014	Li+: ≤0.02 μg/mL	Li+: ≤0.02 μg/mL	*Urel =14%*		
				NO2-: ≤0.02 μg/mL		*Urel =14%*		
				I-: ≤0.02 μg/mL		*Urel =14%*		
241	Emission Spectro-meter	Detection limit	V.R.of Emission Spectrometer JJG 768-2005	ICP：Zn 、Ni 、Mn 、Cr 、Cu 、Ba		*Urel=6%*		
				Direct emission spectrometer : C、Si、Mn、Cr、Ni、Mo、V		*Urel=8%*		
242	X-Ray Fluores-cenece Spectrometers	Detection limit	Calibration Method for X-Ray Fluores cenece Spectrometers Q/CTIC 003-2007	(0~1000)mg/kg		*Urel=7%*		
243	Colorimeter and Color Difference Meter	Color Differences	V.R. of Colorimeter and Color Difference Meter JJG 595-2002	Y：（10~96） x，y：（0.1~0.9）		*U(Y)=1.7, U(x),U(y)=0.006,*		
244	Whiteness meter	Whiteness	V.R. of Whiteness meter JJG 512-2002	65~90		*U=1.7*		
245	Hand Saccharimeter (Contentmeter) and Hand Refractometer	Concentra-tion	V.R.. of Hand Saccharimeter (Contentmeter) and Hand Refractometer JJG 820-1993	(0~80)%		*U=0.5d, (d-division value)*		
		Refraction Ratio		1.3330~1.5200		*U=0.0003*		
246	Abbe Refracto-meter	Refraction Ratio	V.R. of Abbe Refractometer JJG 625-2001	1.33~1.68		*U=8×10-5*		
247	Specular Gloss Meter	Gloss	V.R.of Specular Gloss Meters and Gloss plates JJG 696-2002	(0~100)GU		*U=1.4GU*		
248	Turbidi meter	Turbidy	V.R.of Turbidimeter JJG 880-2006	(0~400) NTU		*Urel=4%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
249	Polari-meter	Polary	V.R.of Polarimeter and Sacchari meter JJG 536-1998	-45°~+45°	-45°~+45°	*U=0.003°*		
		Sacchari -metry		（-20~+105）° Z		*U=0.01°Z*		
250	Densito- meter	Optical density	V.R.of Diffuse Transmission Visual Densitometer JJG 920-1996	0~4		*U=0.02*		
251	Hazemeter	Haze	V.R of Calibration Specification for Hazemeter JJF 1303-2011	0~35		*U=0.3*		
		Transmissivity		(70~90)%		*U=0.8%*		
252	Clarity Test Equipment	Light Illumination	V.R of Calibration Specification for Clarity Test Equipment JJF 1287-2011	（0~4000）lx		*Urel=9%*		
253	Standard Light Source Box	Colour temperature	Standard Light Source Box JJG(spinning) 055-2012	(2000~9500) K		*Urel=1.4%*		
		Light Illumination		(0~9000)Lx		*Urel=8%*		
254	Fourier Transform Infrared Spectrometer	Wave Numbers	C.S. of Fourier Transform Infrared Spectrometer JJF 1319-2011	(800~3100)cm-1		*U=0.3 cm-1*		
255	ELISA Analytical Instruments	Wavelength	V.R.of ELISA Analytical Instruments JJG 861-2007	(360~700)nm		*U=1.2nm*		
		Absorbency		(0.000~4.000)		*U=0.006 Absorbency*		
256	Flame Photometer	Detection limit	V. R. of Flame Photometer JJG 630-2007	Na: (0~1)mmol/L		*U=0.001 mmol/L*		
				K: (0~0.200)mmol/L		*U=0.0005 mmol/L*		
257	Oil Content in Water Analyzer	Concentra -tion	V. R. of Oil Content in Water Analyzers JJG 950-2012	(0~1000)mg/L		*Urel =4%*		

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258	Quadrupole Inductively Coupled Plasma Mass Spectrometers	Detection limit	Calibration Specification for Quadrupole Inductively Coupled Plasma Mass Spectrometers JJF 1159-2006	Be≤30 ng/L In≤10 ng/L Bi≤10 ng/L	Be≤30 ng/L In≤10 ng/L Bi≤10 ng/L	*Urel =3%*		
259	Instrument for KF Coulometry Titration	Concentration	V. R. of Instrument for KF Coulometry Titration JJG 1044-2008	(0~100)%		*Urel=3%*		
260	Automatic Potentionmetric Titrator	Electric Potential	V. R. of Automatic Potentionmetric Titrator JJG 814-1993	(-2000~2000)mV		*U=0.2mV*		
261	Water Test Kits	Acidity	V.R.of Water Test Kits JJG 715-1991	（0~14）pH		*U=0.01 pH*		
		Dissolved Oxygen		（0~15）mg/L		*U=0.2mg/L*		
		Electrolytic Conduc -tance		(0.0~1999)μS		*Urel =0.4%*		
		Turbidy		(0~400)NTU		*Urel =3.7%*		
		Potential		(-2000~2000)mV		*U=0.2mV*		
262	Static Light Scattering Particle Size Analyzers	Grain diameter	C.S.for Static Light Scattering Particle Size Analyzers JJF 1211-2008	(2~5)μm		*Urel=5%*		
				(5~20)μm		*Urel=4%*		
				(20~125)μm		*Urel=3%*		
263	Differential Scanning Calorimeters	Temperature	V.R of Differential Scanning Calorimeters JJG 936-2012	(120~450)℃		*In：U=0.4℃* *Sn：U=0.3℃* *Pb：U=0.6℃* *Zn：U=0.7℃*		
		Calories		(23~108)J/g		*In：U=0.5J/g* *Sn：U=0.4J/g* *Pb：U=0.5J/g* *Zn：U=1.4J/g*		
264	Total Organic Carbon Analyzer	Concentration	V.R of Total Organic Carbon Analyzer JJG 821-2005	（0~1000）mg/L		*Urel=2.5%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
265	CO、CO2 Infrared Gas Aanlyzer	Concentra-tion	V. R. of Carbon Monooxide and Carbon Dioxide Infrared Gas Aanlyzer JJG 635-2011	CO:(0~500) μmol/mol CO2:(0~5000)μmol/mol	CO:(0~500) μmol/mol CO2:(0~5000)μmol/mol	*Urel =2.5%*		
266	Alarmer Detectors of Combustible Gas	Concentra-tion	V.R of Alarmer Detectors of Combustible Gas JJG 693-2011	(0~100)%LEL		*Urel=2.8%*		
267	Carbon Monoxide Detector	Concentra-tion	V.R of Carbon Monoxide Detector JJG 915-2008	(0~1000)μmol/mol		*Urel=2.5%*		
268	Sulfur Dioxide Gas Detectors	Concentra-tion	V.R of Sulfur Dioxide Gas Detectors JJG 551-2003	(0~100)μmol/mol		*Urel=2.6%*		
269	Sulfur Hydrogen Gas Detectors	Concentra-tion	V.R of Sulfur Hydrogen Gas Detectors JJG 551-2003	(0~100)μmol/mol		*Urel=2.6%*		
270	Luminance Meter	Luminance	V. R. of Luminance Meter JJG 211-2005	(0.06～1500)cd/m2		*Urel=3%*		
271	Colour Luminance Meter	Luminance	V. R. of Luminance Meter JJG 211-2005	(10～2000)cd/m2		*Urel=3%*		
		Chroma		x(0.1586～0.7310) y(0.0199～0.4688)		*Ux=0.009, Uy=0.008*		
272	Illumino-meter	Illumination	V. R. of Illuminometer JJG 245-2005	(1～5)lx		*Urel=1.4%*		
				(5～50)lx		*Urel=1.2%*		
				(50～100)lx		*Urel=1.1%*		
				(100～500)lx		*Urel=1%*		
				(500～3000)lx		*Urel=0.9%*		
273	Optical Fiber Power meter	Optical Power	V. R. of Optical Power Meter in Telecommunication JJG 965-2013 V. R. of Optical Power Meter JJG 813-2013	(27～10)dBm		*U=0.2dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
273	Optical Fiber Power meter	Optical Power	V. R. of Optical Power Meter in Telecommunication JJG 965-2013 V. R. of Optical Power Meter JJG 813-2013	(10～0)dBm	(10～0)dBm	*U=0.06dB*		
				(0～-20)dBm		*U=0.08dB*		
				(-20～-40)dBm		*U=0.13dB*		
				(-40～-60)dBm		*U=0.3dB*		
				(-60～-80)dBm		*U=0.5dB*		
274	Ultraviolet Integrator	Integrator	V. R. of Ultraviolet Irradiance Meters JJG 879-2002	(0.1～2000)mJ/cm2		*Urel =16%*		
275	Ultraviolet Irradiance Meter	Irradiance	V. R. of Ultraviolet Irradiance Meters JJG 879-2002	(0.001～1.2)mW/cm2		*Urel=14%*		
276	Bias Current Source	DC Current	V.R. for Standard DC Current Source JJG(Navigation) 38-1987	±(1mA～20A)		*Urel=0.2%*		
277	DC Power Supply	DCV	V.R. for DC Power Supply JJG(Navigation) 6-1999 V.R. for Direct Standard Source JJG(Aerospace) 38-1987	0.01V～0.1V		*Urel=0.01%*		
				0.1V～1V		*Urel=0.018%*		
				1V～10V		*Urel=0.15%*		
				10V～100V		*Urel=0.18%*		
				100V～1000V		*Urel=0.019%*		
		DCI		0.001A～0.01A		*Urel=0.36%*		
				0.01A～0.1A		*Urel=0.16%*		
				0.1A～1A		*Urel=0.26%*		
				1A～3A		*Urel=0.26%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
277	DC Power Supply	DCI	V.R. for DC Power Supply JJG(Navigation) 6-1999 V.R. for Direct Standard Source JJG(Aerospace) 38-1987	3A～10A	3A～10A	*Urel=0.40%*		
				10A～30A		*Urel=0.14%*		
				30A～300A		*Urel=0.58%*		
		Ripple Voltage		(0～100)mV	20Hz～2MHz	*U=0.20%+ 0.004 mV*		
278	AC Power Supply (Frequency Conversion Power Supply)	ACV	Precise AC Voltage Calibration Source JJG 410-1994 V.R. for AC standard Current source JJG(Aerospace) 51-1999	10mV～10V	40Hz～1kHz	*Urel=0.2%*		
				10V～100V		*Urel=0.3%*		
				100V～1000V		*Urel=0.2%*		
		ACI		1mA～0.1A		*Urel=0.2%*		
				0.1A～10A		*Urel=0.3%*		
				0.1W～10W		*Urel=0.3%*		
		Power		10W～10kW		*Urel=0.4%*		
		Frequency		40Hz～1kHz		*Urel=0.11%*		
279	Digital Calibration Device for Ampere-meters,Volt-meters and Ohmmeters	DCV	V. R. of Digital Calibration Device for Amperemeters,Voltmeters and Ohmmeters JJG(Electronic) 02003-1988	10mV～100mV		*Urel=0.06%*		
				100mV～1V		*Urel= 0.012%*		
				1V～10V		*Urel= 0.014%*		
				10V～100V		*Urel= 0.016%*		
				100V～1000V		*Urel= 0.018%*		
		ACV		1mV～100mV	40Hz～1kHz	*Urel=0.072%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
279	Digital Calibration Device for Ampere-meters,Volt-meters and Ohmmeters	ACV	V. R. of Digital Calibration Device for Amperemeters,Voltmeters and Ohmmeters JJG(Electronic) 02003-1988	100mV～1V	40Hz～1kHz	*Urel=0.074%*		
				1V～10V		*Urel=0.080%*		
				10V～100V		*Urel= 0.091%*		
				100V～1000V		*Urel=0.085%*		
		DCI		0.1μA～10μA		*Urel=0.12%*		
				10μA～100μA		*Urel= 0.013%*		
				100μA～1000μA		*Urel=0.015%*		
				1mA～10mA		*Urel=0.015%*		
				10mA～100mA		*Urel=0.016%*		
				100mA～1000mA		*Urel=0.021%*		
				1A～10A		*Urel=0.053%*		
279	Digital Calibration Device for Ampere-meters,Volt-meters and Ohmmeters	ACI	V. R. of Digital Calibration Device for Amperemeters,Voltmeters and Ohmmeters JJG(Electronic) 02003-1988	10μA～100μA	45Hz～100Hz	*Urel=0.11%*		
				100μA～1000μA		*Urel=0.10%*		
				1mA～10mA		*Urel=0.10%*		
				10mA～100mA		*Urel=0.10%*		
				100mA～1000mA		*Urel=0.10%*		
				1A～10A		*Urel=0.15%*		
		Resistance		0Ω～10Ω		*Urel= 0.003%*		
				10Ω～100Ω		*Urel= 0.0020%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
279	Digital Calibration Device for Ampere-meters,Volt-meters and Ohmmeters	Resistance	V. R. of Digital Calibration Device for Amperemeters,Voltmeters and Ohmmeters JJG(Electronic) 02003-1988	100Ω～1000Ω	100Ω～1000Ω	*Urel= 0.0013%*		
				1kΩ～10kΩ		*Urel=0.0013%*		
		Resistance	V. R. of Digital Calibration Device for Amperemeters,Voltmeters and Ohmmeters JJG(Electronic) 02003-1988	10kΩ～100kΩ		*Urel= 0.0013%*		
				100kΩ～1000kΩ		*Urel= 0.0020%*		
				1MΩ～10MΩ		*Urel=0.007%*		
				10MΩ～100MΩ		*Urel=0.06%*		
280	Multifunc- tion Calibrator	DCV	V.R. of DC Standard Voltage Source JJG 445-1986	1mV～10mV		*Urel=0.0048%*		
				10mV～100mV		*Urel=0.0046%*		
				100mV～1V		*Urel=0.0015%*		
				1V～10V		*Urel=0.0012%*		
				10V～100V		*Urel=0.0016%*		
				100V～1000V		*Urel=0.0020%*		
280	Multifunc- tion Calibrator	ACV	V.R.of Precise AC Voltage Calibration Source JJG 410-1994	1mV～10mV	40Hz～1kHz	*Urel=0.17%～0.06%*		
					1kHz～20kHz	*Urel=0.18%～0.06%*		
				10mV～100mV	40Hz～1kHz	*Urel=0.036%～0.018%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
280	Multifunc- tion Calibrator	ACV	V.R.of Precise AC Voltage Calibration Source JJG 410-1994	10mV～100mV	1kHz～20kHz	*Urel=0.042%～0.022%*		
				100mV～1V	40Hz～1kHz	*Urel=0.034%～0.012%*		
					1kHz～20kHz	*Urel=0.042%～0.022%*		
				1V～10V	40Hz～1kHz	*Urel=0.034%～0.016%*		
					1kHz～20kHz	*Urel=0.044%～0.026%*		
				10V～100V	40Hz～1kHz	*Urel=0.029%～0.027%*		
					1KHz～20kHz	*Urel=0.08%～0.06%*		
				100V～1000V	40Hz～1kHz	*Urel=0.09%～0.08%*		
					1KHz～20kHz	*Urel=0.098%～0.078%*		
		DCI	V.R. of DC Standard Source JJG 38-1987	0.1μA～10μA		*Urel=0.031%～0.012%*		
				10μA～100μA		*Urel=0.016%～0.009%*		
				100μA～1000μA		*Urel=0.0092%～0.0044%*		
				1mA～10mA		*Urel=0.0096%～0.0045%*		
				10mA～100mA		*Urel=0.015%～0.006%*		
				100mA～1000mA		*Urel=0.031%～0.007%*		
				1A～10A		*Urel=0.068%～0.022%*		
		ACI	V.R of AC standard current Source JJG(Aerospace) 51-1999	10μA～100μA	45Hz～100Hz	*Urel=0.068%～0.023%*		
					100Hz～5KHz	*Urel=0.068%～0.024%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
280	Multifunc- tion Calibrator	ACI	V.R of AC standard current Source JJG(Aerospace) 51-1999	100 μ A～1mA	45Hz～100Hz	*Urel=0.45%～0.25%*		
					100Hz～5kHz	*Urel=0.35%～0.13%*		
280	Multifunc- tion Calibrator	ACI	V.R of AC standard current Source JJG(Aerospace) 51-1999	1mA～10mA	45Hz～100Hz	*Urel=0.30%～0.08%*		
					100Hz～5kHz	*Urel=0.31%～0.11%*		
				10mA～100mA	45Hz～100Hz	*Urel=0.33%～0.13%*		
					100Hz～5kHz	*Urel=0.30%～0.08%*		
				100mA～1A	45Hz～100Hz	*Urel=0.35%～0.16%*		
					100Hz～5kHz	*Urel=0.068%～0.032%*		
				1A～10A	45Hz～100Hz	*Urel=0.068%～0.033%*		
					100Hz～5kHz	*Urel=0.38%～0.17%*		
		Resistance	V.R. of DC Resistor JJG 166-1993	0 Ω～10 Ω		*Urel=0.012%～0.005%*		
				10 Ω～100 Ω		*Urel=0.015%～0.005%*		
				100 Ω～1k Ω		*Urel=0.0028%～0.0022%*		
				1k Ω～10k Ω		*Urel=0.0028%～0.0022%*		
				10k Ω～100k Ω		*Urel=0.0028%～0.0022%*		
				100k Ω～1M Ω		*Urel=0.0050%～0.0028%*		
				1M Ω～10M Ω		*Urel=0.022%～0.009%*		
				10M Ω～100M Ω		*Urel=0.10%～0.08%*		
				100M Ω～1000M Ω		*Urel=0.015%～0.004%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
281	Digital Multimeter	DCV	V.R.of DC Digital Voltmeter JJG 315-1983	(1～330)mV	(1～330)mV	*U= 0.0020%+ 1μV*		
				0.33V～3.29999V		*U= 0.0011%+ 2μV*		
				3.3V～32.9999V		*U= 0.0012%+ 15μV*		
				33V～332.9999V		*U= 0.0019%+ 1.5mV*		
				330V～1020V		*U= 0.0018%+ 1.5mV*		
281	Digital Multimeter	ACV	V.R.of AC Digital Voltmeter JJG(Aerospace) 34-1999	1mV～32.9993mV	(10～45)Hz	*U=0.08%+6μV*		
					45Hz～10kHz	*U=0.15%+6μV*		
					(10～20)kHz	*U=0.2%+6μV*		
					(20～50)kHz	*U=0.1%+6μV*		
					(50～100)kHz	*U=0.35%+ 12mv*		
					(100～500)kHz	*U=0.8%+50μV*		
				33mV～329.999mV	(10～45)Hz	*U=0.03%+8μV*		
					45Hz～10kHz	*U=0.013%+ 8μV*		
					(10～20)kHz	*U=0.015%+ 8μV*		
					(20～50)kHz	*U=0.035%+ 8μV*		
					(50～100)kHz	*U=0.08%+ 32μV*		
					(100～500)kHz	*U=0.2%+70μV*		
				330mV～3.29999V	(10～45)Hz	*U=0.03%+ 50μV*		
					45Hz～10kHz	*U=0.012%+ 25μV*		
					(10～20)kHz	*U=0.019%+ 50μV*		
					(20～50)kHz	*U=0.03%+ 50μV*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
281	Digital Multimeter	ACV	V.R.of AC Digital Voltmeter JJG(Aerospace) 34-1999	330mV～3.29999V	(50～100)kHz	*U=0.07%+ 13mV*		
				330mV～3.29999V	(100～500)kHz	*U=0.24%+ 0.60mV*		
281	Digital Multimeter	ACV	V.R.of AC Digital Voltmeter JJG(Aerospace) 34-1999	3.3V～32.9999V	(10～45)Hz	*U=0.03%+ 0.65mV*		
					45Hz～10kHz	*U=0.012%+ 25μV*		
					(10～20)kHz	*U=0.024%+ 0.60mV*		
					(20～50)kHz	*U=0.035%+ 0.60mV*		
					(50～100)kHz	*U=0.09%+ 1.6mV*		
				33V～329.999V	45Hz～1kHz	*U=0.019%+ 2mV*		
					(1～10)kHz	*U=0.02%+ 6mV*		
					(10～20)kHz	*U=0.025%+ 6mV*		
					(20～50)kHz	*U=0.03%+ 6mV*		
					(50～100)kHz	*U=0.2%+ 50mV*		
				330V～1020V	45Hz～1kHz	*U=0.03%+ 0.65mV*		
					(1～5)kHz	*U=0.025%+ 10mV*		
					(5～10)kHz	*U=0.03%+ 10mV*		
		DCI	V.R.of DC Digital Amperemete JJG 598-1989	(1～329.999)μA		*U=0.015%+ 0.02μA*		
				330μA～3.29999mA		*U=0.01%+ 0.03μA*		
				3.3mA～32.9999mA		*U=0.01%+ 0.2μA*		
				33mA～329.999mA		*U=0.01%+2μA*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
281	Digital Multimeter	DCI	V.R.of DC Digital Amperemete JJG 598-1989	330mA～1.09999A	330mA～1.09999A	*U=0.02%+40μA*		
				1.1A～2.99999A		*U=0.038%+40μA*		
				3A～10.99999A		*U=0.05%+0.33mA*		
				11A～20.5A		*U=0.1%+0.75mA*		
281	Digital Multimeter	ACI	V.R.of AC Digital Ampere meter JJG(Aerospace) 35-1999	(29～329.99)μA	(10～20)Hz	*U=0.2%+1μA*		
					(20～45)Hz	*U=0.15%+0.1μA*		
					45Hz～1kHz	*U=0.13%+0.1μA*		
					(1～5)kHz	*U=0.3%+0.15μA*		
					(5～10)kHz	*U=0.8%+0.2μA*		
					(10～30)kHz	*U=0.8%+0.2μA*		
				0.33mA～3.2999mA	(10～20)Hz	*U=0.2%+15μA*		
					(20～45)Hz	*U=0.13%+0.1μA*		
					45Hz～1kHz	*U=0.13%+0.1μA*		
					(1～5)kHz	*U=0.2%+0.2μA*		
					(5～10)kHz	*U=0.5%+0.3μA*		
				0.33mA～3.2999mA	(10～30)kHz	*U=1.0%+0.6μA*		
				3.3mA～32.999mA	(10～20)Hz	*U=0.18%+2μA*		
				3.3mA～32.999mA	(20～45)Hz	*U=0.09%+2μA*		
					45Hz～1kHz	*U=0.04%+2μA*		
					(1～5)kHz	*U=0.08%+2μA*		
					(5～10)kHz	*U=0.2%+3μA*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
281	Digital Multimeter	ACI	V.R.of AC Digital Ampere meter JJG(Aerospace) 35-1999	3.3mA～32.999mA	(10～30)kHz	*U=0.4%+4μA*		
				33mA～329.99mA	(10～20)Hz	*U=0.18%+20μA*		
					(20～45)Hz	*U=0.09%+20μA*		
					45Hz～1kHz	*U=0.04%+20μA*		
281	Digital Multimeter	ACI	V.R.of AC Digital Ampere meter JJG(Aerospace) 35-1999	33mA～329.99mA	(1～5)kHz	*U=0.10%+50μA*		
					(5～10)kHz	*U=0.2%+0.10mA*		
					(10～30)kHz	*U=0.4%+0.20mA*		
				0.33A～1.09999A	(10～45)Hz	*U=0.18%+0.10mA*		
					45Hz～1kHz	*U=0.05%+0.10mA*		
					(1～5)kHz	*U=0.6%+0.10mA*		
					(5～10)kHz	*U=2.5%+5.0mA*		
				1.1A～2.99999A	(10～45)Hz	*U=0.18%+0.10mA*		
					45Hz～1kHz	*U=0.05%+0.10mA*		
					(1～5)kHz	*U=0.6%+0.10mA*		
					(5～10)kHz	*U=2.5%+5.0mA*		
				3A～10.9999A	(10～45)Hz	*U=0.06%+2.0mA*		
					45Hz～1kHz	*U=0.10%+0.20mA*		
					(1～5)kHz	*U=3.0%+2.0mA*		
				11A～20.5A	(45～100)Hz	*U=0.12%+5.0mA*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
281	Digital Multimeter	ACI	V.R.of AC Digital Ampere meter JJG(Aerospace) 35-1999	11A～20.5A	100Hz～1kHz	*U=0.15%+ 5.0mA*		
					(1～5)kHz	*U=3.0%+ 5.0mA*		
281	Digital Multimeter	Resistance	V.R. for DC Digital Ohmmeter JJG 724-1991	0.1Ω～329.9999Ω		*U=0.0028%+ 0.002Ω*		
				330Ω～1.099999kΩ		*U=0.0028%+ 0.02Ω*		
				33kΩ～109.9999kΩ		*U=0.0028%+ 1Ω*		
				110kΩ～329.9999kΩ		*U=0.0032%+ 10Ω*		
				330kΩ～1.099999MΩ		*U=0.0032%+ 10Ω*		
				1.1MΩ～3.299999MΩ		*U=0.006%+ 0.15kΩ*		
				3.3MΩ～10.99999MΩ		*U=0.013%+ 0.25kΩ*		
				11MΩ～32.99999MΩ		*U=0.025%+ 2.5kΩ*		
				33MΩ～109.9999MΩ		*U=0.05%+ 3.0kΩ*		
				110MΩ～329.9999MΩ		*U=0.3%+ 0.10MΩ*		
				330MΩ～1100MΩ		*U=1.5%+ 0.50MΩ*		
282	Data Acquisition System	DCV	V.R.of DC Digital Voltmeter JJG 315-1983	1mV～330mV		*Urel=0.0040%*		
				0.33V～3.3V		*Urel=0.0017%*		
				3.3V～33V		*Urel=0.0016%*		
				33V～330V		*Urel=0.0023%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
282	Data Acquisition System	DCV	V.R.of DC Digital Voltmeter JJG 315-1983	330V～1000V	330V～1000V	*Urel=0.0032%*		
		ACV	V.R. for AC digital Voltmeter JJG(Aerospace) 34-1999	1mV ～33mV	45Hz ～10kHz	*Urel=0.080%*		
				33mV～330mV	45Hz ～10kHz	*Urel=0.024%*		
				0.33V～3.3V	45Hz ～10kHz	*Urel=0.017%*		
				3.3V～33V	45Hz ～10kHz	*Urel=0.020%*		
				33V～330V	45Hz ～10kHz	*Urel=0.024%*		
				330V～1000V	45Hz ～10kHz	*Urel=0.036%*		
282	Data Acquisition System	DCI	V.R.of DC digital Currentmeter JJG 598-1989	1μA～330μA		*Urel=0.040%*		
				0.33mA～3.3mA		*Urel=0.015%*		
				3.3mA～33mA		*Urel=0.014%*		
				33mA～330mA		*Urel=0.014%*		
				0.33A～3A		*Urel=0.028%*		
				3A～11A		*Urel=0.062%*		
		ACI	V.R for AC digital Current meter JJG(Aerospace) 35-1999	29μA～330μA	45Hz～1kHz	*Urel=0.13%*		
				0.33mA～3.3mA		*Urel=0.13%*		
				3.3mA～33mA		*Urel=0.069%*		
				33mA～330mA	45Hz～1kHz	*Urel=0.069%*		
				0.33A～3A		*Urel=0.081%*		
				3A～11A		*Urel=0.092%*		
		Resistance	V.R. of DC Digital Ohmmeter JJG 724-1991	0Ω～110Ω		*Urel=0.0051%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
282	Data Acquisition System	Resistance	V.R. of DC Digital Ohmmeter JJG 724-1991	110Ω～330Ω	110Ω～330Ω	*Urel=0.0053%*		
				330Ω～1.1kΩ		*Urel=0.0035%*		
				1.1kΩ～3.3kΩ		*Urel=0.0053%*		
				3.3kΩ～11kΩ		*Urel=0.0035%*		
				11kΩ～33kΩ		*Urel=0.0054%*		
				33kΩ～110kΩ		*Urel=0.0035%*		
				110kΩ～330kΩ		*Urel=0.0059%*		
				330kΩ～1.1MΩ		*Urel=0.004%*		
				1.1MΩ～3.3MΩ		*Urel=0.010%*		
				3.3MΩ～11MΩ		*Urel=0.016%*		
				11MΩ～33MΩ		*Urel=0.055%*		
				33MΩ～110MΩ		*Urel=0.068%*		
282	Data Acquisition System	Temperature	V.R. of Digital Temperature Indicators and Controllers JJG 617-1996	(-200～-100)℃ (K型)		*U=0.28℃*		
				(-100～-25)℃(K型)		*U=0.15℃*		
				(-25～120)℃(K型)		*U=0.12℃*		
				(120～1000)℃(K		*U=0.22℃*		
				(1000～1300)℃(K型)		*U=0.35℃*		
283	Amperemeter,volt m-eter, ohmmeter / (multi meter)	DCV	V.R. of amperemeter, voltmeter, ohmmeter , multimeter JJG 124-2005	1mV～0.1V		*Urel=0.8%～0.2%*		
				0.1V～0.25V		*Urel=1.6%～0.3%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
283	Amperemeter,volt m-eter, ohmmeter / (multi meter)	DCV	V.R. of amperemeter, voltmeter, ohmmeter , multimeter JJG 124-2005	0.25V～2.5V	0.25V～2.5V	*Urel=1.6%～0.3%*		
				2.5V～10V		*Urel=0.8%～0.2%*		
				10V～50V		*Urel=3.3%～0.3%*		
				50V～250V		*Urel=3.3%～0.3%*		
				250V ～1000V		*Urel=0.8%～0.2%*		
		ACV		1mV～10V	(45Hz～1kHz)	*Urel=1.6%～0.3%*		
				10V～50V		*Urel=3.3%～0.3%*		
				50V～250V		*Urel=1.6%～0.3%*		
				250V～1000V		*Urel=1.6%～0.3%*		
		DCI	V.R. of amperemeter, voltmeter, ohmmeter , multimeter JJG 124-2005	1μA～50μA		*Urel=1.6%～0.3%*		
				0.05mA～2.5mA		*Urel=1.6%～0.3%*		
				2.5mA～25mA		*Urel=1.6%～0.3%*		
				0.025A～0.25A		*Urel=1.6%～0.3%*		
				0.25A～10A		*Urel=1.6%～0.3%*		
283	Amperemeter,volt m-eter, ohmmeter / (multi meter)	ACI	V.R. of amperemeter, voltmeter, ohmmeter , multimeter JJG 124-2005	1μA～50μA	(45Hz～1kHz)	*Urel=1.6%～0.3%*		
				0.05mA～2.5mA		*Urel=1.6%～0.3%*		
				2.5mA～25mA		*Urel=1.6%～0.3%*		
				0.025A～0.25A		*Urel=1.6%～0.3%*		
				0.25A～10A		*Urel=1.6%～0.3%*		
		Resistance		1mΩ～110MΩ		*Urel=0.8%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
284	Clamp Ammeters	Current	C.S. for Clamp Ammeters JJF 1075-2001	16.5mA～164.995mA	DC～60Hz	*Urel=0.6%*		
				165mA～1.64995A		*Urel=0.1%*		
				1.65A～16.4995A				
				16.5A～165A				
				165A～1000A		*Urel=0.2%*		
285	AC Digital Powermeter	ACV	V.R. of AC Digital Powermeter JJG 780-1992	(0.33～1000)V	(45～65)Hz	*Urel=0.09%*		
				(90～329.99)mA				
				(0.33～1000)V		*Urel=0.12%*		
				(0.33～0.8999)A				
				(0.33～1000)V		*Urel=0.10%*		
				(0.9～2.1999)A				
				(0.33～1000)V		*Urel=0.13%*		
				(2.2～2.4999)A				
				(0.33～1000)V		*Urel=0.11%*		
				(4.5～20.5)A				
286	Electrical Measurement Instrument	ACV	V.R. for AC Digital Powermeter JJG 780-1992	(3.3～33)mV	(10～45)Hz	*U=0.12%+9μV*		
					45Hz～10kHz	*U=0.023%+9μV*		
					(10k～20k)Hz	*U=0.03%+9μV*		
					(20k～50k)Hz	*U=0.15%+9μV*		
					(50k～100k)Hz	*U=0.53%+18μV*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
286	Electrical Measure-ment Instru-ment	ACV	V.R. for AC Digital Powermeter JJG 780-1992	(3.3～33)mV	(100k～500k)Hz	*U=1.2%+75μV*		
				(33～330)mV	(10～45)Hz	*U=0.045%+12μV*		
					45Hz～10kHz	*U=0.02%+12μV*		
					(10k～20k)Hz	*U=0.023%+12μV*		
					(20k～50k)Hz	*U=0.053%+12μV*		
					(50k～100k)Hz	*U=0.12%+48μV*		
					(100k～500k)Hz	*U=0.3%+0.11mV*		
				(0.33～3.3)V	(10～45)Hz	*U=0.045%+75μV*		
					45Hz～10kHz	*U=0.017%+30μV*		
					(10k～20k)Hz	*U=0.029%+75μV*		
				(0.33～3.3)V	(20k～50k)Hz	*U=0.045%+75μV*		
					(50k～100k)Hz	*U=0.11%+0.19mV*		
					(100k～500k)Hz	*U=0.36%+0.9mV*		
286	Electrical Measure-ment Instru-ment	ACV	V.R. for AC Digital Powermeter JJG 780-1992	(3.3～33)V	(10～45)Hz	*U=0.045%+0.98mV*		
					45Hz～10kHz	*U=0.017%+0.3mV*		
					(10k～20k)Hz	*U=0.036%+0.98mV*		
					(20k～50k)Hz	*U=0.053%+0.98mV*		
					(50k～100k)Hz	*U=0.14%+1.6mV*		
				(33～330)V	(10～45)Hz	*U=0.029%+3mV*		
					45Hz～10kHz	*U=0.03%+9mV*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
286	Electrical Measure-ment Instru-ment	ACV	V.R. for AC Digital Powermeter JJG 780-1992	(33～330)V	(10k～20k)Hz	*U=0.038%+ 9mV*		
					(20k～50k)Hz	*U=0.045%+ 9mV*		
				(33～330)V	(50k～100k)Hz	*U=0.3%+ 75mV*		
				(330～1000)V	(10～45)Hz	*U=0.045%+ 15mV*		
					45Hz～10kHz	*U=0.038%+ 15mV*		
					(10k～20k)Hz	*U=0.045%+ 15mV*		
		ACI		(29～330) μA	(10～20)Hz	*U=0.3%+ 0.15μA*		
					(20～45)Hz	*U=0.23%+ 0.15μA*		
					45Hz～1kHz	*U=0.19%+ 0.15μA*		
286	Electrical Measure-ment Instrument	ACI	V.R. for AC Digital Powermeter JJG 780-1992	(29～330) μA	1kHz～5kHz	*U=0.45%+ 0.23μA*		
					5kHz～10kHz	*U=0.12%+ 0.3μA*		
					10kHz～30kHz	*U=0.12%+ 0.3μA*		
				(0.33～3.3)mA	(10～20)Hz	*U=0.3%+ 0.23μA*		
					(20～45)Hz	*U=0.19%+ 0.15μA*		
					45Hz～1kHz	*U=0.15%+ 0.15μA*		
					1kHz～5kHz	*U=0.3%+ 0.3μA*		
					5kHz～10kHz	*U=0.75%+ 0.36μA*		
					10kHz～30kHz	*U=1.5%+ 0.9μA*		
				(3.3～33)mA	(10～20)Hz	*U=0.27%+3μA*		
					(20～45)Hz	*U=0.14%+3μA*		
					45Hz～1kHz	*U=0.06%+3μA*		
					1kHz～5kHz	*U=0.12%+3μA*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
286	Electrical Measure-ment Instrument	ACI	V.R. for AC Digital Powermeter JJG 780-1992	(3.3～33)mA	5kHz～10kHz	*U=0.3%+3.6μA*		
					10kHz～30kHz	*U=0.6%+6μA*		
				(33～330)mA	(10～20)Hz	*U=0.27%+30μA*		
					(20～45)Hz	*U=0.14%+30μA*		
					45Hz～1kHz	*U=0.06%+30μA*		
					1kHz～5kHz	*U=0.15%+75μA*		
				(33～330)mA	5kHz～10kHz	*U=0.3%+0.15mA*		
					10kHz～30kHz	*U=0.6%+0.3mA*		
286	Electrical Measure-ment Instrument	ACI	V.R. for AC Digital Powermeter JJG 780-1992	(0.33～1.1)A	(10～45)Hz	*U=0.27%+0.15mA*		
					45Hz～1kHz	*U=0.075%+0.15mA*		
					1kHz～5kHz	*U=0.9%+0.15mA*		
					5kHz～10kHz	*U=3.8%+7.5mA*		
				(1.1～3.3)A	(10～45)Hz	*U=0.27%+0.10mA*		
					45Hz～1kHz	*U=0.075%+0.15mA*		
					1kHz～5kHz	*U=0.9%+0.15mA*		
					5kHz～10kHz	*U=3.8%+7.5mA*		
		ACW		(3.3～11)A	(10～45)Hz	*U=0.09%+3mA*		
					45Hz～1kHz	*U=0.15%+3mA*		
					1kHz～5kHz	*U=4.5%+3mA*		
				(11～20)A	45Hz～100Hz	*U=0.18%Ix+7.5mA*		
					100Hz～1kHz	*U=0.23%Ix+7.5mA*		
					1kHz～5kHz	*U=4.5%Ix+7.5mA*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
286	Electrical Measure-ment Instrument	ACW	V.R. for AC Digital Powermeter JJG 780-1992	(10～99)mW	(20～45)Hz	*U=0.25%+ 0.05mW*		
					45Hz～1kHz	*U=0.18%+ 0.05mW*		
					1kHz～5kHz	*U=0.5%+ 0.06mW*		
					5kHz～10kHz	*U=1.2%+ 0.10mW*		
286	Electrical Measure-ment Instrument	ACW	V.R. for AC Digital Powermeter JJG 780-1992	(99～990)mW	(20～45)Hz	*U=0.19%+ 0.05mW*		
					45Hz～1kHz	*U=0.16%+ 0.08mW*		
					1kHz～5kHz	*U=0.3%+ 0.10mW*		
					5kHz～10kHz	*U=0.7%+ 0.15mW*		
				(0.99～9.9)W	(20～45)Hz	*U=0.19%+ 0.5mW*		
					45Hz～1kHz	*U=0.15%+ 0.5mW*		
					1kHz～5kHz	*U=0.12%+ 0.5mW*		
					5kHz～10kHz	*U=0.3%+ 0.8mW*		
				(9.9～99)W	(20～45)Hz	*U=0.14%+ 5mW*		
					45Hz～1kHz	*U=0.15%+ 5mW*		
					1kHz～5kHz	*U=0.15%+ 12mW*		
					5kHz～10kHz	*U=0.3%+ 60mW*		
				(99～330)W	(10～45)Hz	*U=0.27%+ 60mW*		
					45Hz～1kHz	*U=0.07%+ 60mW*		
					1kHz～5kHz	*U=0.9%+ 60mW*		
					5kHz～10kHz	*U=3.5%+ 60mW*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
286	Electrical Measure-ment Instrument	ACW	V.R. for AC Digital Powermeter JJG 780-1992	(330～990)W	(10～45)Hz	*U=0.27%+60mW*		
					45Hz～1kHz	*U=0.07%+60mW*		
					1kHz～5kHz	*U=0.9%+60mW*		
					5kHz～10kHz	*U=7.5%+60mW*		
				(0.99～3.3)kW	(10～45)Hz	*U=0.09%+1.2W*		
					45Hz～1kHz	*U=0.15%+0.12W*		
					1kHz～5kHz	*U=4.5%+0.6W*		
				(3.3～20)kW	45Hz～100Hz	*U=0.2%+3W*		
					100Hz～1kHz	*U=0.13%+3W*		
					1kHz～5kHz	*U=4.5%+3W*		
		Factor		cosΦ：0～1	(40Hz～10kHz)	*U=0.3%+0.0003*		
		Frequency		40Hz～10kHz		*Urel=0.06%*		
287	Electronic Load	Voltage	C.S. for DC Electronic Load JJF 1462-2014	（0.1～1）V		*Urel＝0.0046%*		
				（1～10）V		*Urel＝0.0043%*		
				（10～100）V		*Urel＝0.0057%*		
				（100～1000）V		*Urel＝0.0065%*		
		Current		10mA～1A		*Urel＝0.005%*		
				1A～10A		*Urel＝0.01%*		
				10A～30A		*Urel＝0.03%*		
				30～300A		*Urel＝0.04%*		
		Resistant		1Ω～100kΩ		*Urel＝0.04%*		
		Power		1mW～20W		*Urel＝0.02%*		
				20W～1kW		*Urel＝0.03%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
287	Electronic Load	Power	C.S. for DC Electronic Load JJF 1462-2014	1kW～10kW	1kW～10kW	*Urel =0.04%*		
288	50Hz Single-phase Phasem-eter	Phase Angle	V.R.of 50Hz Single-phase Phasemeter JJG 440-2008	-180° ～0°		*Urel=0.18%*		
				0° ～180°				
289	Frequency Meter	Frequency	V.R.of Frequency Meter used Indicator JJG 603-2006	10 Hz～500kHz		*Urel=0.003%*		
290	Winding Tempera-ture Measure-ment Instru-ment	DC Resistance	V.R. for DC Low Resistance Meter JJG 837-2003 V.R. for DC Digital Ohmmeter JJG 724-1991	10mΩ		*Urel=0.05%*		
				100mΩ		*Urel=0.05%*		
				0.1 Ω ～2 Ω		*Urel=0.10%～0.06%*		
				2 Ω ～20 Ω		*Urel=0.11%～0.03%*		
				20 Ω ～200 Ω		*Urel=0.09%～0.01%*		
				0.2k Ω ～2k Ω				
				2k Ω ～20k Ω		*Urel=0.09%～0.06%*		
				20k Ω ～100k Ω		*Urel=0.11%～0.02%*		
291	D.C. low resistance meters	Resistance	V.R.of D.C. low resistance meters JJG 837-2003	1m Ω ～100m Ω		*Urel=0.05%*		
				0.1 Ω ～2 Ω		*Urel=0.10%～0.06%*		
				2 Ω ～20 Ω		*Urel=0.11%～0.03%*		
				20 Ω ～200 Ω		*Urel=0.09%～0.01%*		
				0.2k Ω ～2k Ω				
				2k Ω ～20k Ω		*Urel=0.09%～0.06%*		
				20k Ω ～100k Ω		*Urel=0.11%～0.02%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
291	D.C. low resistance meters	Resistance	V.R.of D.C. low resistance meters JJG 837-2003	100kΩ～10MΩ	100kΩ～10MΩ	*Urel=1.6%*		
292	Earth resistance meters	Resistance	V.R.of earth resistance meters JJG 366-2004	(0.1～1) Ω		*Urel=1.0%*		
				(1～10) Ω		*Urel=0.5%*		
				(10～100) Ω		*Urel=0.5%*		
				(100～2000) Ω		*Urel=0.5%*		
293	Earth-Continui-ty Testers	Resistance	V.R. of Earth-Continuity Testers JJG 984-2004	(10～1000)mΩ		*Urel=(0.2～0.7)%*		
		Current		(1~60)A		*U=(0.2~6)%*		
294	Withsta-nd ing voltage testers	DCV	V.R.of Withstanding Voltage Testers JJG 795-2004	1V～10kV		*Urel=1.0%～0.5%*		
		ACV		1V～10kV	50Hz～1kHz	*Urel=1.2%～0.6%*		
		DCI		(0.1～100)mA		*Urel=0.5%～0.1%*		
		ACI		(0.1～100)mA	50Hz～1kHz	*Urel=0.7%～0.3%*		
		Time		(1-3600)s		*Urel=0.2%*		
295	High- frequency withstand-ing voltage tester	voltage	V.R.of Withstanding Voltage Testers JJG 795-2004	(0.1～40)kV	1kHz～10MHz	*Urel=2.5%～1.2%*		
296	Spark Tester	ACV	V.R. of Spark Tester JJG(Zhe) 84-2006	(0.1～10)kV		*Urel=2.2%～1.5%*		
				(10～40)kV		*Urel=0.6%*		
		DCV		(0.1～10)kV		*Urel=1.9%～0.7%*		
				(10～40)kV		*Urel=0.6%*		
297	Trace Testing Apparatus of Leakage Current	Voltage	V.R.of Withstanding Voltage Testers JJG 795-2004	(0.05～10)kV	(45~60)Hz	*Urel=1.2%～0.6%*		
		Current		1mA～1A		*Urel=0.5%～0.1%*		
		Time		(0.1～100)s		*Urel=0.5%*		

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298	Wrist Strap/Footwear Tester	Resistance	C.S for Wrist Strap/Footwear Tester JJF(Electronic) 31502-2010	1kΩ～≤10MΩ	1kΩ～≤10MΩ	*Urel=1.6%*		
				10MΩ～≤100MΩ		*Urel=1.9%*		
				100MΩ～1000MΩ		*Urel=2.6%*		
299	Surface Resistivity Meter, Wrist Strap/Foot-wear Tester	Resistance	C.S.for Surface Resistances Tester JJF 1285-2011	(103～107)Ω		*Urel=1.1%*		
				(107～1011)Ω		*Urel=1.6%～2.9%*		
300	Megohm meter	Resistance	V.R.of megohm meter JJG 622-1997	100Ω～10MΩ		*Urel=2.0%*		
				10MΩ～1GΩ		*Urel=2.3%*		
				1GΩ～10GΩ		*Urel=3.1%*		
				(10~1000)V		*Urel=0.5%*		
		Voltage		(≥1~5)kV		*Urel=1.0%*		
301	Eletronical Megohm meter	Resistance	V.R of Eletronical Megohm meter JJG 1005-2005	100Ω ～<10MΩ		*Urel=1.1%*		
				10MΩ ～<100MΩ		*Urel=1.2%*		
				100MΩ ～<1GΩ		*Urel=1.6%*		
				1GΩ ～<10GΩ		*Urel=2.8%*		
				1GΩ ～100GΩ		*Urel=6.0%*		
		voltage		(10～<1000)V		*Urel=0.26%*		
				(1000～5000)V		*Urel=0.78%*		
302	High insulation resistance meter	Resistance	V.R. of high insulation resistance meters JJG 690-2003	0.1MΩ～10MΩ		*Urel=0.3%*		
				10MΩ～100MΩ		*Urel=0.6%*		
				100MΩ～1000MΩ		*Urel=1.2%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
302	High insulation resistance meter	Resistance	V.R. of high insulation resistance meters JJG 690-2003	1GΩ～10GΩ	1GΩ～10GΩ	*Urel=2.3%*		
				10GΩ～100GΩ		*Urel=5.8%*		
		voltage		(10~1000)V		*Urel=0.5%*		
				(≥1~5)kV		*Urel=0.8%*		
303	Leakage Current Instru-ment and Meter	voltage	V.R.of Leakage Current Instrument and Meter JJG 843-2007	1V～1000V		*Urel=0.1%~0.8%*		
		Current		1μA～10mA	DC~65Hz	*Urel=0.1%~0.4%*		
				10mA～100mA		*Urel=0.1%~0.2%*		
304	Safety Tester	ACV	V.R.for Withstanding Voltage Testers JJG 795-2004	10mV～10kV (50Hz～1kHz)		*Urel=1.2%～0.6%*		
		DCV		10mV～10kV		*Urel=1.0%～0.5%*		
		ACI		(0.1～100)mA (50Hz～1kHz)		*Urel=0.7%～0.3%*		
		DCI		(0.1～100)mA		*Urel=0.5%～0.1%*		
		Time		(0.1～3600)s		*Urel=0.2%*		
		ACI	V.R.for Leakage Current Meter JJG 843-2007	(0.1～100)mA (50Hz～1kHz)		*Urel=0.7%～0.3%*		
		DCI		(0.1～100)mA		*Urel=0.5%～0.1%*		
	Safety Tester	Insulation Resistance	V.R.for High Insulation Resistance Meters JJG 690-2003	0.1MΩ～10MΩ		*Urel=0.3%*		
				10MΩ～100MΩ		*Urel=0.6%*		
				100MΩ～1000MΩ		*Urel=1.2%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
304	Safety Tester	Insulation Resistance	V.R.for High Insulation Resistance Meters JJG 690-2003	1GΩ～10GΩ	1GΩ～10GΩ	*Urel=2.3%*		
				10GΩ～100GΩ		*Urel=5.8%*		
		Voltage		(10~1000)V		*Urel=0.5%*		
				(≥1~5)kV		*Urel=1%*		
		Earth-Continuity Current		(10～50)mΩ		*Urel=1.0%～0.3%*		
				(50～1000)mΩ		*Urel=0.3%*		
				(1~60)A		*U=0.2%*		
305	Cable Tester	Resistance(Continuity Resistance、O/S Risistance	V.R. of DC Digital Ohmmeter JJG 724-1991	(0.01～100000)Ω		*Urel =0.8%～0.1%*		
		Insulation Resistance	V.R of Eletronical Megohm meter JJG 1005-2005	0.1MΩ～10MΩ		*Urel =2.0%*		
				10MΩ～100MΩ		*Urel =2.1%*		
				100MΩ～1000MΩ		*Urel =2.3%*		
		DCV	V. R. of Withstanding Voltage Testers JJG 795-2004	(50～10000)V		*Urel =1.2% ～0.1%*		
		ACV		(50～10000)V	10Hz～20kHz	*Urel =1.5% ～0.1%*		
306	D.C. resistance device	Resistance	V.R.of D.C. resistance Box JJG 982-2003	(0.01～0.1)Ω		*Urel=0.54%～0.01%*		
				(0.1～1)Ω		*Urel=0.06%～0.01%*		
				(1～10)Ω				
				(10～100)Ω				
				(100～1000)Ω				
				(1～10)kΩ		*Urel=0.01%～0.001%*		
				(10～100)kΩ				

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
307	Capacitor	Capaci- tance	V.R. of Standard Capacitors JJG 183-1992	1pF～1000 μF	(20Hz～100kHz)	*Urel=0.06%*		
				1pF～1000 μF	(100kHz～2MHz)	*Urel=0.15%*		
308	Inductors	Inductance	V.R.of Standard Inductors JJG 726-1991	1 μH～10H	(20Hz～100kHz)	*Urel=0.06%*		
				1 μH～10H	(100kHz～2MHz)	*Urel=0.18%*		
309	LCR Meter	Inductance	GR1658 RLC Meter JJG(Electronic) 05020-1988 HP4274A、HP4275A Multi -Frequency LCR Meter JJG(Electronic) 05014-1988	1 μH～100mH	100Hz～100kHz	*Urel=0.06%*		
				1H	100Hz～1kHz	*Urel=0.12%*		
		Capacitance		1pF～1000 μF	100Hz～100kHz	*Urel=0.06%*		
		Resistance		10mΩ	100Hz～100kHz	*Urel=0.06%*		
				100mΩ				
				0.1Ω～1Ω		*Urel =0.60%～0.10%*		
				1Ω～10Ω		*Urel =0.15%*		
				10Ω～100Ω		*Urel=0.21%～0.07%*		
				0.1kΩ～1kΩ				
				1kΩ～10kΩ				
				10kΩ～100kΩ				
				100kΩ～1MΩ				
		Voltage		1mV～5V	10Hz～20kHz	*Urel=0.4%～0.1%*		
					20kHz～50kHz	*Urel=0.7%～0.2%*		
					50kHz～100kHz	*Urel=1.2%～0.2%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
309	LCR Meter	Frequency	GR1658 RLC Meter JJG(Electronic) 05020-1988 HP4274A、HP4275A Multi -Frequency LCR Meter JJG(Electronic) 05014-1988	100Hz～100kHz		*Urel=1×10-5*		
310	Transfor-mer Syntheti-cal Tester	Frequency	V.R.of D.C. low resistance meters JJG 837-2003	100Hz～≤1kHz		*Urel=1×10-5*		
				1kHz～≤100kHz				
		Voltage		1mV～≤1V		*Urel=0.11%*		
				1V～≤5V		*Urel=0.11%～0.14%*		
		DC Resistance		0.01Ω～≤0.1Ω		*Urel=0.14%～1.2%*		
				0.1Ω～≤1Ω		*Urel=0.23%～1.2%*		
				1Ω～≤10Ω		*Urel=0.06%～0.23%*		
				10Ω～≤100Ω		*Urel=0.01%～0.06%*		
				100Ω～≤100kΩ		*Urel=0.01%*		
	Transfor-mer Syntheti-cal Tester	Inductance	GR1658 RLC Meter JJG(Electronic) 05020-1988 HP4274A、HP4275A Multi -Frequency LCR Meter JJG(Electronic) 05014-1988	1μH～≤1H		*Urel=0.02%*		
		Capaci- tance		1pF～≤100μF		*Urel=0.03%*		
		Turn Ratio	Calibration Methods of Turns Ratio and Phase Tester Q/CTIC 004-2006	1～≤10000		*Urel=0.4%*		
311	Turns Ratio and Phase Tester	Turn Ratio	Calibration Methods of Turns Ratio and Phase Tester Q/CTIC 004-2006	1～10000	30Hz～100kHz	*Urel=0.5%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
312	Turn tester	Circle Number	V.R of YG series Turn tester SJ 20241-1993	(1～≤10)turns		*Urel=12%*		
				(10～≤100)turns		*Urel=1.2%～12%*		
				(100～≤1000)turns		*Urel=0.16%～1.2%*		
				(1000～≤10000)turns		*Urel=0.10%～0.16%*		
				(10000～≤20000)turns		*Urel=0.10%*		
313	RCD tester	Voltage	C.S of Residual Current Operated Circuit-breaker's Action Protection Feature JJF 1283-2011	(50～300)V		*U=0.85V*		
		Current		5mA~1500mA		*Urel=0.14%～2.3%*		
		Break Off Time		(10～5000)ms		*Urel=3.1%～0.03%*		
314	Transistor Checker and Curve Tracer	Voltage	C.S.for Semiconductor Device Curve Tracers JJF 1236-2010	(0.01～500)V/div		*Urel=1.0%*		
		Current		1μA/div～2μA/div		*Urel=1.1%*		
				2μA/div～1A/div		*Urel=1.0%*		
315	High Voltage (Electrosta-tic)Volt-meter (Probe)	ACV	V.R.of High Voltage Electrostatic Voltmeters JJG 494-2005	(10～2000)V	(45~65)Hz	*Urel=1.5%～2.8%*		
				(2～10)kV		*Urel=2.1%～3.9%*		
		DCV		(10～2000)V		*Urel =0.8%～2.1%*		
				(2～10)kV		*Urel =1.4%～3.3%*		
316	Ion Fan	Ion Balance Voltage	C.S.of Ion Fan Q/CTIC 02027-2013	(0～±1100)V		*U=2.2V*		
		Fall Time		(0.1～999.9)s		*U=0.3s*		
317	Thermo- calibrator	Voltage	V.R. of Calibrator of SR501 Temperature Testers JJG(Yue) 001-1991	(-199～0)mV		*U=42μV～4.1μV*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
317	Thermo- calibrator	Voltage	V.R. of Calibrator of SR501 Temperature Testers JJG(Yue) 001-1991	(0～+199) mV	(0～+199) mV	*U=4.1 μV～42μV*		
		Resistance		(1～400) Ω		*U=0.5mΩ*		
318	Electronic Stopwatch/Timer	Timer	V.R. of Stopwatches JJG 237-2010	(0～99999)s		*U=0.06s～2s*		
		Daily Rate		±(0～99.99)s/d		*U=0.04s/d*		
319	Mechanic Stopwatch	Timer	V.R. of Stopwatches JJG 237-2010	(0.01～900)s		*U=0.06s*		
320	Watch Tester	Daily Rate	V.R. of Watch Tester JJG 488-2008	(-21.09～+21.09)s/d		*U=0.02s/d*		
321	Universal Counters	Frequency	V.R. of Universal Counters JJG 349-2001 V.R.of Microwave Frequency Counters JJG 841-2012	10Hz～26.5GHz		*Urel=2×10-9*		
		Sensitivity		10Hz～12.4GHz		*U=0.3dB*		
				12.4GHz～26.5GHz		*U=0.7dB*		
322	Electret Micro-phone Instrume-nts	Output Signal Frequency	Calibration Specification for Electret Microphone Instruments JJF 1145-2006	(10～10000)Hz		*Urel=0.04%*		
		DC Feed-Voltage		100 mV～100V		*Urel=0.03%*		
		DC Feed-Current		(0.01～100)mA		*Urel=0.18%*		
		Internal Load Resistance		10Ω～100kΩ		*Urel=0.15%*		
		Sound pressure Sensitivity		(-60～-30) dB		*U=0.28dB*		
		Attenuation Level		(-20～20) dB		*U=0.28dB*		
323	Oscillos-cope Calibrator	Voltage	V.R.of Oscilloscope Calibrator JJG 278-2002	1mV～100mV		*Urel=5×10-4～1×10-4*		
				100mV～200V		*Urel=1×10-4*		
		Time		1ns～5s		*Urel=1×10-7*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
324	Oscillos-cope	Vertical defluxion factor	V. R. of Analogue Oscilloscope JJG 262-1996	1mV/div～5mV/div	1mV/div～5mV/div	*Urel=1.5%～0.8%*		
				5mV/div～10V/div		*Urel =0.8%*		
		Level defluxion factor		1ns/div～10s/div		*Urel =0.4%*		
		Bandwidth		50kHz～2GHz		*Urel=1.5%*		
		Rise Time		≥150ps		*Urel =1.2%*		
		Overshoot		0.1%~20%		*Urel=1.2%*		
		Resistance		800kΩ～1.2MΩ		*Urel=0.12%*		
		Calibration signal Frequency		1mV～100V	10Hz~20kHz	*Urel=0.12%*		
		Calibration signal Level		10Hz～1MHz		*Urel= 2×10-5*		
325	Digital OscilloSc-ope	Vertical defluxion factor	C.S.of Digital Strorage Oscilloscope JJF 1057-1998	1mV/div～5mV/div		*Urel=1.2%～0.3%*		
				5mV/div～10V/div		*Urel=0.3%*		
		Level defluxion factor		0.5ns/div～10s/div		*Urel=0.06%*		
		Bandwidth		50kHz～2GHz		*Urel=1.5%*		
		Rise Time		≥150ps		*Urel =10%*		
		Overshoot		0.1%~20%		*Urel=1.2%*		
		Resistance		800kΩ～1.2MΩ		*Urel=0.12%*		
				40Ω～90Ω		*Urel=0.12%*		
		Calibration signal Frequency		1mV～100V	10Hz~20kHz	*Urel=0.12%*		
		Calibration signal Level		10Hz～1MHz		*Urel= 2×10-5*		
326	High Voltage Probe	Ratio	C. S. for High Voltage Probes of Oscilloscope JJF(Electronic) 30304-2008	1～1000		*Urel=1.3%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
327	Current Probe	Attenuation Coefficient	C. S. for Current Probes of Oscilloscope JJF(Electronic) 30305-2010	1～1000	1～1000	*Urel=1.2%*		
		ACI		≤1000A		*Urel=1.2%*		
		DCI		≤1000A		*Urel=1.2%*		
328	Differential Probe of Oscillosc-ope	Attenuation Coefficient	C. S. for Differential Probes of Oscilloscope JJF(Electronic) 30306-2010	1～1000		*Urel=1.2%*		
329	Super High Frequency Milli-voltmeter	Level	Verification Regulation of RF Voltmeters JJG 308-2013	1mV～300V	20kHz～1MHz	*Urel=0.3%*		
				0dBm～+30dBm	1MHz～1GHz	*U=0.25dB*		
				-40dBm～0dBm	1MHz～1GHz	*U=0.3dB*		
		Frequency Response		20kHz～1MHz		*Urel=3%*		
				1MHz～1GHz		*U=0.5dB*		
330	Electronic Voltmeter	Voltage	V.R. of LF Electronic Voltmeter JJG 782-1992	1mV～330V	(45Hz～500kHz)	*See in table1*		
				(26~-30)dBm	(500kHz～1MHz)	*U=0.15dB*		
	Voltage measurement CMC							
	Voltage	Frequency						
		10Hz~45Hz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz~500kHz*		
	1mV~32.999mV	0.093%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	*0.92%+58μV*		
	33mV~329.999mV	0.037%+9μV	0.023%+9μV	0.043%+9μV	0.093%+37μV	*0.23%+81μV*		
	0.33V~3.29999V	0.037%+58μV	0.026%+69μV	0.037%+58μV	0.082%+144μV	*0.27%+0.7mV*		
	3.3V~32.999V	0.037%+0.8mV	0.031%+0.7mV	0.043%+0.7mV	0.10%+1.8mV	/		
	33V~330V	0.026%+2.3mV	0.032%+6.9mV	0.037%+6.9mV	0.23%+57.7mV	/		

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<table>
<tr><th>№</th><th>Instrument</th><th>Parameter</th><th>Title, Code of Calibration Method</th><th colspan="2">Range</th><th>Uncertainty (k=2)</th><th>Limitation</th><th>Note</th></tr>
<tr><td rowspan="15">331</td><td rowspan="3">Distortion Meter</td><td>Frequency</td><td rowspan="3">V.R. of Distortion Meter Calibrator JJG 251-1997</td><td>20Hz～500kHz</td><td></td><td>Urel=0.05%</td><td rowspan="3"></td><td></td></tr>
<tr><td>Voltage measurement</td><td>1mV~300V</td><td></td><td>See in table1</td><td></td></tr>
<tr><td>Distortion measurement</td><td>(0.001～30)%</td><td></td><td>See in table2</td><td></td></tr>
<tr><td colspan="9">Table1：Voltage measurement CMC</td></tr>
<tr><td rowspan="2">Voltage</td><td colspan="7">Frequency</td></tr>
<tr><td>10Hz~45Hz</td><td>10kHz~20kHz</td><td>20kHz~50kHz</td><td>50kHz~100kHz</td><td>100kHz~500kHz</td><td></td><td></td></tr>
<tr><td>1mV~32.999mV</td><td>0.093%+7μV</td><td>0.027%+7μV</td><td>0.11%+7μV</td><td>0.40%+14μV</td><td>0.92%+58μV</td><td></td><td></td></tr>
<tr><td>33mV~329.999 mV</td><td>0.037%+9μV</td><td>0.023%+9μV</td><td>0.043%+9μV</td><td>0.093%+37μV</td><td>0.23%+81μV</td><td></td><td></td></tr>
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<tr><td>33V~330V</td><td>0.026%+2.3mV</td><td>0.032%+6.9mV</td><td>0.037%+6.9mV</td><td>0.23%+57.7mV</td><td>/</td><td></td><td></td></tr>
<tr><td colspan="9">Table2：Distortion measurement CMC</td></tr>
<tr><td rowspan="2">Distortion</td><td colspan="7">Frequency</td></tr>
<tr><td>20Hz，200Hz</td><td>400Hz，1kHz</td><td>10kHz</td><td>20kHz</td><td>50kHz</td><td>100kHz</td><td></td></tr>
<tr><td>30%～0.1%</td><td>2.3%±0.00034%</td><td>1.2%±0.00034%</td><td>2.3%±0.00034%</td><td>2.3%±0.00034%</td><td>3.5%±0.00034%</td><td>5.8%±0.00034%</td><td></td></tr>
<tr><td>0.1%～0.03%</td><td>2.3%±0.00034%</td><td>1.2%±0.00034%</td><td>2.3%±0.00034%</td><td>2.3%±0.00034%</td><td>/</td><td>/</td><td></td></tr>
<tr><td>0.03%～0.01%</td><td>5.8%±0.00034%</td><td>5.8%±0.00034%</td><td>5.8%±0.00034%</td><td>/</td><td>/</td><td>/</td><td></td></tr>
<tr><td>0.01%～0.003%</td><td>12%±0.00034%</td><td>12%±0.00034%</td><td>/</td><td>/</td><td>/</td><td>/</td><td></td></tr>
<tr><td rowspan="2">332</td><td rowspan="2">Sweep Signal Generator</td><td>Frequency</td><td rowspan="2">V.R.of Low Frequency Meter Signal Generator JJG 442-1986
V.R. of UHF Television Sweep Scope JJG 602-1996</td><td>20Hz～1GHz</td><td></td><td>Urel=1×10-6</td><td rowspan="2"></td><td rowspan="2"></td></tr>
<tr><td>Electrical Level</td><td>80 mV ～100V</td><td>10Hz～20kHz</td><td>Urel=0.2%</td></tr>
</table>

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
332	Sweep Signal Generator	Electrical Level	V.R.of Low Frequency Meter Signal Generator JJG 442-1986 V.R. of UHF Television Sweep Scope JJG 602-1996	80 mV ～ 100V	20kHz～100kHz	*Urel=0.8%*		
				(0～30dBm)	150kHz～1GHz	*U=0.22dB*		
				(0～-100dBm)	150kHz～1GHz	*U=0.34dB*		
		Distortion		(0.01～100)%	10Hz～20Hz	*Urel =23%*		
				(0.01～100)%	20Hz～20kHz	*Urel =14%*		
				(0.01～100)%	20kHz～100kHz	*Urel =25%*		
333	Low Frequency Signal Generator	Frequency	V.R. of Low Frequency Signal Generator JJG 602-1996	10Hz～1MHz		*Urel= 2×10-5*		
		Voltage		1mV～100V	10Hz~20kHz	*Urel=0.12%*		
				1mV～100V	20kHz~50kHz	*Urel=0.2%*		
				1mV～100V	50kHz~100kHz	*Urel=0.8%*		
				1mV～100V	100kHz~300kHz	*Urel=5.2%*		
				(30～26)dBm	300kHz~1MHz	*U=0.25dB*		
				(26～-10)dBm		*U=0.22dB*		
				(-10～-130)dBm		*U=0.22dB~0.30dB*		
		Distortion		>0.03%～100%	20Hz～20kHz	*Urel=7.2%*		
					20kHz～110kHz	*Urel=14%*		
				0.005%～0.03%	20Hz～110kHz	*Urel=30%*		
334	Function Signal Generator	Frequency	V.R. of Function Generator JJG 840-1993	1Hz～500MHz		*Urel =3×10-10*		
		Level		1mV～100V	10Hz~20kHz	*Urel=0.12%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
334	Function Signal Generator	Level	V.R. of Function Generator JJG 840-1993	1mV～100V	20kHz~50kHz	*Urel=0.2%*		
				1mV～100V	50kHz~100kHz	*Urel=0.8%*		
				1mV～100V	100kHz~300kHz	*Urel=5.2%*		
				(30～26)dBm	300kHz~500MHz	*U=0.25dB*		
				(26~-10)dBm		*U=0.22dB*		
				(-10~-130)dBm		*U=0.22dB~0.30dB*		
		Distortion		>0.03%~100%	20Hz～20kHz	*Urel=7.2%*		
					20kHz～110kHz	*Urel=14%*		
				0.005%~0.03%	20Hz～110kHz	*Urel=30%*		
		Harmonic Wave		(-80~0)dB	100kHz～500MHz	*U=0.70dB*		
		AM		Carrier Wave Frequency	Modulation Frequency	*(5~99)%*		
				100kHz~10MHz	10Hz~10kHz	*Urel=1.7%*		
				10MHz~26.5GHz	10Hz~50kHz	*Urel=1.2%*		
					50kHz~100kHz	*Urel=1.7%*		
		FM		Carrier Wave Frequency	Modulation Frequency	*(0~500)kHz*		
				100kHz~10MHz	10Hz~10kHz	*Urel=1.2%*		
				10MHz~26.5GHz	10Hz~100kHz	*Urel=1.2%*		
					100kHz~200kHz	*Urel=3.5%*		
334	Function Signal Generator	PM	V.R. of Function Generator JJG 840-1993	Carrier Wave Frequency	Modulation Frequency	*(0~400)rad*		
				100kHz~10MHz	50Hz~10kHz	*Urel=1.2%*		
				10MHz~26.5GHz	50Hz~100kHz	*Urel=1.2%*		
		Modulation Frequency		100Hz~100kHz		*Urel=2.2×10-5*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
334	Function Signal Generator	Modulation Distortion	V.R. of Function Generator JJG 840-1993	0.001%~100% (–100dB~0dB)	0.001%~100% (–100dB~0dB)	*Urel=6.9%*		
335	Audio Analyzer	Output Frequency	V.R of Audio Analyzer JJF 1395-2013 C.S of Audio Analyzer JJG(Electronic) 30302-2008	10Hz～300kHz		*Urel= 2×10-5*		
		Output Voltage		1mV～100V	10Hz~20kHz	*Urel=0.12%*		
				1mV～100V	20kHz~50kHz	*Urel=0.2%*		
				1mV～100V	50kHz~100kHz	*Urel=0.8%*		
				1mV～100V	100kHz~300kHz	*Urel=5.2%*		
		Output Signal Distortion		>0.03%~100%	20Hz～20kHz	*Urel=7.2%*		
					20kHz～110kHz	*Urel=14%*		
				0.005%~0.03%	20Hz～110kHz	*Urel=30%*		
	Audio Analyzer	Frequency Measurement		10Hz～300kHz		*Urel= 3.4×10-6*		
		ACV Measurement		1mV~330V	See in table1			
		Distortion Measurement		(0.001～30)%	See in table2			

Table1:Voltage Measurement CMC

335	Voltage	Frequency						
		10Hz~45Hz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz~500kHz*		
	1mV~ 32.999mV	0.093%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	*0.92%+58μV*		
	33mV~ 329.999mV	0.037%+9μV	0.023%+9μV	0.043%+9μV	0.093%+37μV	*0.23%+81μV*		
	0.33V~ 3.29999V	0.037%+58μV	0.026%+69μV	0.037%+58μV	0.082%+144μV	*0.27%+0.7mV*		
	3.3V~ 32.999V	0.037%+0.8mV	0.031%+0.7mV	0.043%+0.7mV	0.10%+1.8mV	/		
	33V~330V	0.026%+2.3mV	0.032%+6.9mV	0.037%+6.9mV	0.23%+57.7mV	/		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
	Table2:Distortion Measurment CMC							
	Distortion	Frequency						
		20Hz，200Hz	400Hz，1kHz	10kHz	20kHz	*50kHz*	100kHz	
335	30%～0.1%	2.3%±0.00034%	1.2%±0.00034%	2.3%±0.00034%	2.3%±0.00034%	*3.5%±0.00034%*	5.8%±0.00034%	
	0.1%～0.03%	2.3%±0.00034%	1.2%±0.00034%	2.3%±0.00034%	2.3%±0.00034%	/	/	
	0.03%～0.01%	5.8%±0.00034%	5.8%±0.00034%	5.8%±0.00034%	/	/	/	
	0.01%～0.003%	12%±0.00034%	12%±0.00034%	/	/	/	/	
336	Filter	Bandwidth	V. R. of Octave-Band and One-Third-Octave Band Filters JJG 449-2001	20Hz～100kHz		*Urel =3.0×10-4*		
				100kHz～6GHz		*Urel =1.6×10-4*		
		Fluctuation		10Hz～50kHz		*U=0.02dB*		
				50kHz～100kHz		*U =0.07dB*		
				100kHz～6GHz		*U=0.17dB*		
337	Modulati-on Meter	Frequency	C.S. for Modulation Meters JJF 1111-2003	150kHz～1GHz		*Urel=1×10-6*		
		AM Depth		(5%～99%)	20Hz～50Hz, 50kHz～100kHz	*Urel=4%*		
				(5%～99%)	50Hz～50kHz	*Urel=1.3%*		
		FM Deviation		50Hz～100kHz	0.4kHz～400kHz	*Urel=1.3%*		
338	Power Meter	Power	436A V. R. of Powermeter JJG(Space) 22-1987	0.1mW/0.3mW/1mW/3mW/10mW/30mW/100mW		*Urel =0.3%*		
		Output Power		(-10～20)dBm 0.1MHz～18GHz		*U=0.1dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
339	Power Sensor	Power Calibration Factor	V. R. for lower power mount GJB/J 3598-1999	100kHz～18GHz	100kHz～18GHz	*Urel =4.0%*		
		Power		(10 ～ -70)dBm	100kHz～18GHz	*U=0.18dB*		
340	Signal Generator /Digital Signal Generator	Frequency	V.R of Signal Generators JJG 173-2003 Calibration Specification for Digital Signal Generator JJF 1174-2007	100kHz~26.5GHz		*Urel =3×10-10*		
		Level		100kHz~4.2GHz	(30 ~ 26)dBm	*U=0.25dB*		
					(26 ~ -10)dBm	*U=0.22dB*		
					(-10 ~ -130)dBm	*U=0.22dB~ 0.30dB*		
				4.2GHz~8GHz	(30 ~ 26)dBm	*U=0.31dB*		
					(26 ~ -10)dBm	*U=0.28dB*		
					(-10 ~ -120)dBm	*U=0.28dB~ 0.35dB*		
				8GHz~12.4GHz	(30 ~ 26)dBm	*U=0.33dB*		
					(26 ~ -10)dBm	*U=0.30dB*		
					(-10 ~ -120)dBm	*U=0.30dB~ 0.37dB*		
				12.4GHz~18GHz	(30 ~ 26)dBm	*U=0.41dB*		
					(26 ~ -10)dBm	*U=0.40dB*		
					(-10 ~ -120)dBm	*U=0.40dB~ 0.47dB*		
				18GHz~26.5GHz	(30 ~ 26)dBm	*U=0.69dB*		
					(26 ~ -10)dBm	*U=0.68dB*		
					(-10 ~ -120)dBm	*U=0.68dB~ 0.75dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
340	Signal Generator /Digital Signal Generator	Harmonic Wave	V.R of Signal Generators JJG 173-2003 Calibration Specification for Digital Signal Generator JJF 1174-2007	(-80~0)dB	20Hz～10MHz	*U=0.83dB*		
					10MHz～3.6GHz	*U=0.70dB*		
					3.6GHz~8GHz	*U=1.3dB*		
					8GHz~22GHz	*U=1.8dB*		
		AM Depth		Carrier Wave Frequency	Modulation Frequency	*(5~99)%*		
				100kHz~10MHz	10Hz~10kHz	*Urel=1.7%*		
				10MHz~26.5GHz	10Hz~50kHz	*Urel=1.2%*		
					50kHz~100kHz	*Urel=1.7%*		
		FM Deviation		Carrier Wave Frequency	Modulation Frequency	*(0~500)kHz*		
				100kHz~10MHz	10Hz~10kHz	*Urel=1.2%*		
				10MHz~26.5GHz	10Hz~100kHz	*Urel=1.2%*		
					100kHz~200kHz	*Urel=3.5%*		
		PM Deviation		Carrier Wave Frequency	Modulation Frequency	*(0~400)rad*		
				100kHz~10MHz	50Hz~10kHz	*Urel=1.2%*		
				10MHz~26.5GHz	50Hz~100kHz	*Urel=1.2%*		
		Modulation Frequency		100Hz~100kHz		*Urel=2.2×10-5*		
		Modulation Distortion		0.001%~100%(–100dB~0dB)		*Urel=6.9%*		
		Waveform Quality Factor Rho		(0~1.000)		*U=0.0012*		
		EVM		(0~25)%		*U=0.29%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
340	Signal Generator /Digital Signal Generator	Amplitude Error	V.R of Signal Generators JJG 173-2003 Calibration Specification for Digital Signal Generator JJF 1174-2007	(0~25)%	(0~25)%	*U=0.29%*		
		Phase Error		(0~15)°		*U=0.23°*		
		Frequency Error		±30 kHz		*U=2.3Hz*		
		ACPR		(0~80)dBc		*U=0.69dB*		
		GFSK Error		(0~5)%		*U=3.6kHz*		
		DEVM		(0~25)%		*U=0.03%*		
341	Spectrum Analyzer/Vector Signal analyzer	REF Frequency	C. S. for Vector Signal Analyzers JJF 1128-2004 Calibration Specification for Spectrum Analyzer JJF 1396-2013	(1/2/5/10)MHz		*Urel =3×10-9*		
		Frequency		100kHz~26.5GHz		*Urel =3×10-9*		
		Level		100kHz~4.2GHz	(30 ~ 26)dBm	*U=0.17dB*		
					(26 ~ -10)dBm	*U=0.15dB*		
					(-10 ~ -130)dBm	*U=0.15dB~ 0.23dB*		
				4.2GHz~8GHz	(30 ~ 26)dBm	*U=0.39dB*		
					(26 ~ -10)dBm	*U=0.36dB*		
					(-10 ~ -120)dBm	*U=0.36dB~ 0.43dB*		
				8GHz~12.4GHz	(30 ~ 26)dBm	*U=0.61dB*		
					(26 ~ -10)dBm	*U=0.60dB*		
					(-10 ~ -120)dBm	*U=0.60dB~ 0.67dB*		
		Level		12.4GHz~18GHz	(30 ~ 26)dBm	*U=0.63dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
341	Spectrum Analyzer/Vector Signal analyzer	Level	C. S. for Vector Signal Analyzers JJF 1128-2004 Calibration Specification for Spectrum Analyzer JJF 1396-2013	12.4GHz~ 18GHz	(26 ~ -10)dBm	*U=0.62dB*		
					(-10 ~ -120)dBm	*U=0.62dB~ 0.69dB*		
				18GHz~ 26.5GHz	(30 ~ 26)dBm	*U=1.4dB*		
					(26 ~ -10)dBm	*U=1.3dB*		
					(-10 ~ -120)dBm	*U=1.4dB*		
		Sweep Span		100Hz～ 20GHz		*Urel =0.1%*		
341	Spectrum Analyzer/Vector Signal analyzer	RBW	C. S. for Vector Signal Analyzers JJF 1128-2004 Calibration Specification for Spectrum Analyzer JJF 1396-2013	1Hz～ 20MHz		*Urel =1%*		
		Resolution Bandwidth Switching		1Hz～ 20MHz		*U=0.02dB*		
		Calibration Signal Frequency		100kHz~4.2 GHz		*Urel =3×10-9*		
		Calibration signal Level		100kHz~4.2 GHz		*U=0.15dB*		
		Attenuation		0~80dB		*U=0.02dB*		
		Average Noise Level		9kHz~26.5G Hz		*U=1.6dB*		
		Waveform Quality Factor Rho		(0~1.000)		*U=0.0012*		
		EVM		(0~25)%		*U=0.29%*		
		Amplitude Error		(0~25)%		*U=0.29%*		
		Phase Error		(0~15)°		*U=0.23°*		
		Frequency Error		±30 kHz		*U=2.3Hz*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
341	Spectrum Analyzer/Vector Signal analyzer	ACPR	C. S. for Vector Signal Analyzers JJF 1128-2004 Calibration Specification for Spectrum Analyzer JJF 1396-2013	(0~80)dBc	(0~80)dBc	*U=0.69dB*		
		GFSK Error		(0~5)%		*U=3.6kHz*		
		DEVM		(0~25)%		*U=0.03%*		
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	RF SIGNAL GENERATOR PART						

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Frequency	C.S for RF Communication Test Set JJF 1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF 1131-2005 C.S for CDMA Radio Communication Tester JJF 1177-2007 C.S for WCDMA Radio Communication Tester JJF 1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF 1204-2008 C.S for Bluetooth Comprehensive Tester JJF 1278-2011 C.S for WLAN Tester JJF 1277-2011	100kHz~26.5GHz		*Urel =3×10-10*		
		Level		100kHz~4.2GHz	(30 ~ 26)dBm	*U=0.25dB*		
					(26 ~ -10)dBm	*U=0.22dB*		
					(-10 ~ -130)dBm	*U=0.22dB~ 0.30dB*		
				4.2GHz~8GHz	(30 ~ 26)dBm	*U=0.31dB*		
					(26 ~ -10)dBm	*U=0.28dB*		
					(-10 ~ -120)dBm	*U=0.28dB~ 0.35dB*		
				8GHz~12.4GHz	(30 ~ 26)dBm	*U=0.33dB*		
					(26 ~ -10)dBm	*U=0.30dB*		
					(-10 ~ -120)dBm	*U=0.30dB~ 0.37dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Level	C.S for RF Communication Test Set JJF 1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF 1131-2005 C.S for CDMA Radio Communication Tester JJF 1177-2007 C.S for WCDMA Radio Communication Tester JJF 1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF 1204-2008 C.S for Bluetooth Comprehensive Tester JJF 1278-2011 C.S for WLAN Tester JJF 1277-2011	12.4GHz~ 18GHz	(30 ~ 26)dBm	*U=0.41dB*		
					(26 ~ -10)dBm	*U=0.40dB*		
					(-10 ~ -120)dBm	*U=0.40dB~ 0.47dB*		
				18GHz~ 26.5GHz	(30 ~ 26)dBm	*U=0.69dB*		
					(26 ~ -10)dBm	*U=0.68dB*		
					(-10 ~ -120)dBm	*U=0.68dB~ 0.75dB*		
		AM Depth		Carrier Wave Frequency	Modulation Frequency	*(5~99)%*		
				100kHz~ 10MHz	10Hz~10kHz	*Urel=1.7%*		
				10MHz~ 26.5GHz	10Hz~50kHz	*Urel=1.2%*		
					50kHz~ 100kHz	*Urel=1.7%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	FM Deviation	C.S for RF Communication Test Set JJF 1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF 1131-2005 C.S for CDMA Radio Communication Tester JJF 1177-2007 C.S for WCDMA Radio Communication Tester JJF 1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF 1204-2008 C.S for Bluetooth Comprehensive Tester JJF 1278-2011 C.S for WLAN Tester JJF 1277-2011	Carrier Wave Frequency	Modulation Frequency	*(0~500)kHz*		
				100kHz~ 10MHz	10Hz~10kHz	*Urel=1.2%*		
				10MHz~ 26.5GHz	10Hz~100kHz	*Urel=1.2%*		
					100kHz~ 200kHz	*Urel=3.5%*		
		PM Deviation		Carrier Wave Frequency	Modulation Frequency	*(0~400)rad*		
				100kHz~ 10MHz	50Hz~10kHz	*Urel=1.2%*		
				10MHz~ 26.5GHz	50Hz~100kHz	*Urel=1.2%*		
		Modulation Frequency		100Hz~100kHz		*Urel=2.2×10-5*		
		Modulation Distortion		0.001%~100% (–100dB~0dB)		*Urel=6.9%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Waveform Quality Factor Rho	C.S for RF Communication Test Set JJF 1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF 1131-2005 C.S for CDMA Radio Communication Tester JJF 1177-2007 C.S for WCDMA Radio Communication Tester JJF 1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF 1204-2008 C.S for Bluetooth Comprehensive Tester JJF 1278-2011 C.S for WLAN Tester JJF 1277-2011	(0~1.000)	(0~1.000)	*U=0.0012*		
		EVM		(0~25)%		*U=0.29%*		
		Amplitude Error		(0~25)%		*U=0.29%*		
		Phase Error		(0~15)°		*U=0.23°*		
		Frequency Error		±30 kHz		*U=2.3Hz*		
		ACPR		(0~80)dBc		*U=0.69dB*		
		GFSK Error		(0~5)%		*U=3.6kHz*		
		DEVM		(0~25)%		*U=0.05%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	RF SIGNAL ANALYZER PART						
		Frequency Measurement	C.S for RF Communication Test Set JJF 1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF 1131-2005 C.S for CDMA Radio Communication Tester JJF 1177-2007 C.S for WCDMA Radio Communication Tester JJF 1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF 1204-2008 C.S for Bluetooth Comprehensive Tester JJF 1278-2011 C.S for WLAN Tester JJF 1277-2011	100kHz~26.5GHz		*Urel =3×10-9*		
		Level Measurement		100kHz~4.2GHz	(30 ~ 26)dBm	*U=0.17dB*		
					(26 ~ -10)dBm	*U=0.15dB*		
					(-10 ~ -130)dBm	*U=0.15dB~ 0.23dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Level Measurement	C.S for RF Communication Test Set JJF 1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF 1131-2005 C.S for CDMA Radio Communication Tester JJF 1177-2007 C.S for WCDMA Radio Communication Tester JJF 1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF 1204-2008 C.S for Bluetooth Comprehensive Tester JJF 1278-2011 C.S for WLAN Tester JJF 1277-2011	4.2GHz~ 8GHz	(30 ~ 26)dBm	*U=0.39dB*		
					(26 ~ -10)dBm	*U=0.36dB*		
					(-10 ~ -120)dBm	*U=0.36dB~ 0.43dB*		
				8GHz~ 12.4GHz	(30 ~ 26)dBm	*U=0.61dB*		
					(26 ~ -10)dBm	*U=0.60dB*		
					(-10 ~ -120)dBm	*U=0.60dB~ 0.67dB*		
				12.4GHz~ 18GHz	(30 ~ 26)dBm	*U=0.63dB*		
					(26 ~ -10)dBm	*U=0.62dB*		
					(-10 ~ -120)dBm	*U=0.62dB~ 0.69dB*		
				18GHz~ 26.5GHz	(30 ~ 26)dBm	*U=1.4dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Level Measurement	C.S for RF Communication Test Set JJF 1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF 1131-2005 C.S for CDMA Radio Communication Tester JJF 1177-2007 C.S for WCDMA Radio Communication Tester JJF 1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF 1204-2008 C.S for Bluetooth Comprehensive Tester JJF 1278-2011 C.S for WLAN Tester JJF 1277-2011	18GHz~ 26.5GHz	(26 ~ -10)dBm	*U=1.3dB*		
					(-10 ~ -120)dBm	*U=1.4dB*		
		AM Depth Measurement		Carrier Wave Frequency	Modulation Frequency	*(5~99)%*		
				100kHz~ 10MHz	10Hz~10kHz	*Urel=1.7%*		
				10MHz~ 26.5GHz	10Hz~50kHz	*Urel=1.2%*		
					50kHz~ 100kHz	*Urel=1.7%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	FM Deviation Measurement	C.S for RF Communication Test Set JJF 1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF 1131-2005 C.S for CDMA Radio Communication Tester JJF 1177-2007 C.S for WCDMA Radio Communication Tester JJF 1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF 1204-2008 C.S for Bluetooth Comprehensive Tester JJF 1278-2011 C.S for WLAN Tester JJF 1277-2011	Carrier Wave Frequency	Modulation Frequency	*(0~500)kHz*		
				100kHz~ 10MHz	10Hz~10kHz	*Urel=1.2%*		
				10MHz~ 26.5GHz	10Hz~100kHz	*Urel=1.2%*		
					100kHz~ 200kHz	*Urel=3.5%*		
		PM Deviation Measurement		Carrier Wave Frequency	Modulation Frequency	*(0~400)rad*		
				100kHz~ 10MHz	50Hz~10kHz	*Urel=1.2%*		
				10MHz~ 26.5GHz	50Hz~100kHz	*Urel=1.2%*		
		Waveform Quality Factor Rho Measurement		(0~1.000)		*U=0.0012*		
		EVM Measurement		(0~25)%		*U=0.29%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Amplitude Error Measurement	C.S for RF Communication Test Set JJF 1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF 1131-2005 C.S for CDMA Radio Communication Tester JJF 1177-2007 C.S for WCDMA Radio Communication Tester JJF 1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF 1204-2008 C.S for Bluetooth Comprehensive Tester JJF 1278-2011 C.S for WLAN Tester JJF 1277-2011	(0~25)%	(0~25)%	*U=0.29%*		
		Phase Error Measurement		(0~15)°		*U=0.23°*		
		Frequency Error Measurement		±30 kHz		*U=2.3Hz*		
		ACPR Measurement		(0~80)dBc		*U=0.69dB*		
		GFSK Error Measurement		(0~5)%		*U=3.6kHz*		
		DEVM Measurement		(0~25)%		*U=0.03%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	AUDIO SIGNAL GENERATOR PART						
		Output Frequency	C.S of Audio Analyzer JJF 1395-2013	10Hz～300kHz		*Urel= 2×10-5*		
		Output Voltage		1mV～100V	10Hz~20kHz	*Urel=0.12%*		
				1mV～100V	20kHz~50kHz	*Urel=0.2%*		
				1mV～100V	50kHz~100kHz	*Urel=0.8%*		
				1mV～100V	100kHz~300kHz	*Urel=5.2%*		
		Output Signal Distortion	C.S of Audio Analyzer JJF 1395-2013	>0.03%~100%	20Hz～20kHz	*Urel=7.2%*		
					20kHz～110kHz	*Urel=14%*		
				0.005%~0.03%	20Hz～110kHz	*Urel=30%*		
		AUDIO SIGNAL ANALYZER PART						
		Frequency Measurement	C.S of Audio Analyzer JJF 1395-2013	10Hz～300kHz		*Urel= 3.4×10-6*		
		ACV Measurement		1mV~330V	See in Table1	/		
		Distortion Measurement		(0.001～30)%	See in Table2	/		
	Table1:Voltage Measurement CMC							
	Voltage	Frequency						
		10Hz~45Hz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz~500kHz*		
	1mV~32.999mV	0.093%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	*0.92%+58μV*		
	33mV~ 329.999 mV	0.037%+9μV	0.023%+9μV	0.043%+9μV	0.093%+37μV	*0.23%+81μV*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	0.33V~ 3.29999V	0.037%+58μV	0.026%+69μV	0.037%+58μV	0.082%+144μV	*0.27%+0.7mV*		
	3.3V~ 32.999V	0.037%+0.8mV	0.031%+0.7mV	0.043%+0.7mV	0.10%+1.8mV	/		
	33V~330V	0.026%+2.3mV	0.032%+6.9mV	0.037%+6.9mV	0.23%+57.7mV	/		
342	Table2:Distortion Measurement CMC							
	Distortion	Frequency						
		20Hz，200Hz	400Hz，1kHz	10kHz	20kHz	*50kHz*	100kHz	
	30%～0.1%	2.3%±0.00034%	1.2%±0.00034%	2.3%±0.00034%	2.3%±0.00034%	*3.5%±0.00034%*	5.8%±0.00034%	
	0.1%～0.03%	2.3%±0.00034%	1.2%±0.00034%	2.3%±0.00034%	2.3%±0.00034%	/	/	
	0.03%～0.01%	5.8%±0.00034%	5.8%±0.00034%	5.8%±0.00034%	/	/	/	
	0.01%～0.003%	12%±0.00034%	12%±0.00034%	/	/	/	/	
343	Shielding Room	Shield Effect	Method for measuring the shielding effectiveness of electromagnetic shielding enclosures GB 12190-2006	(0~110)dB	9kHz~18GHz	*U=1.7dB*		
344	Preampli-fier	Gain	V. R. of 2627 Model Preamplifier JJG (Electronic) 02007-1989	100kHz~4.2GHz	(0~60)dB	*U=0.45dB*		
				4.2GHz~8GHz		*U=0.56dB*		
				8GHz~12.4GHz		*U=0.60dB*		
				12.4GHz~18GHz		*U=0.72dB*		
				18GHz~26.5GHz		*U=1.1dB*		
345	Attenuator	Attenuator	V. R. of Coaxial Attenuator JJG 387-2005	100kHz~4.2GHz	(0~10)dB	*U=0.17dB*		
					(10 ~120)dB	*U=0.17dB~0.24dB*		
				4.2GHz~8GHz	(0~10)dB	*U=0.18dB*		
					(10 ~120)dB	*U=0.18dB~0.25dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
345	Attenuator	Attenuator	V. R. of Coaxial Attenuator JJG 387-2005	8GHz~ 12.4GHz	(0~10)dB	*U=0.18dB*		
					(10 ~120)dB	*U=0.18dB~ 0.25dB*		
				12.4GHz~ 18GHz	(0~10)dB	*U=0.20dB*		
					(10 ~120)dB	*U=0.20dB~ 0.27dB*		
				18GHz~ 26.5GHz	(0~10)dB	*U=0.24dB*		
					(10 ~120)dB	*U=0.24dB~ 0.31dB*		
346	Artificial mains networks	Impendance	V.R for Artificial mains networks JJG(Electronic) 30806-2007	(0～100) Ω	9kHz～ 1MHz	*Urel =2.6%*		
					1MHz～ 15MHz	*Urel=4.0%*		
					15MHz～ 100MHz	*Urel =5.4%*		
		Voltage Division factor		(0～70)dB	9kHz～ 100MHz	*U=0.58dB*		
347	Network Analyzer	Frequncy	C.S for Network Analyzer JJF(电子) 30501-2007	100kHz~26. 5GHz		*Urel =3×10-10*		
		Level		100kHz~ 4.2GHz	(30 ~ 26)dBm	*U=0.25dB*		
					(26 ~ -10)dBm	*U=0.22dB*		
					(-10 ~ -130)dBm	*U=0.22dB~ 0.30dB*		
				4.2GHz~ 8GHz	(30 ~ 26)dBm	*U=0.31dB*		
					(26 ~ -10)dBm	*U=0.28dB*		
					(-10 ~ -120)dBm	*U=0.28dB~ 0.35dB*		
				8GHz~ 12.4GHz	(30 ~ 26)dBm	*U=0.33dB*		
					(26 ~ -10)dBm	*U=0.30dB*		
					(-10 ~ -120)dBm	*U=0.30dB~ 0.37dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
347	Network Analyzer	Level	C.S for Network Analyzer JJF(电子) 30501-2007	12.4GHz~18GHz	(30 ~ 26)dBm	*U=0.41dB*		
					(26 ~ -10)dBm	*U=0.40dB*		
					(-10 ~ -120)dBm	*U=0.40dB~ 0.47dB*		
				18GHz~26.5GHz	(30 ~ 26)dBm	*U=0.69dB*		
					(26 ~ -10)dBm	*U=0.68dB*		
					(-10 ~ -120)dBm	*U=0.68dB ~0.75dB*		
		Harmonic Wave		(-80~0)dB	20Hz～10MHz	*U=0.83dB*		
					10MHz～3.6GHz	*U=0.70dB*		
					3.6GHz~8GHz	*U=1.3dB*		
					8GHz~22GHz	*U=1.8dB*		
		Attenuation		(0~100)dB		*U=（0.1~1.5）dB*		
		SWR		1.01~2.00		*U=0.05*		
348	RF Impedance Analyzer	Frequency	C. S. for RF Impedance/Material Analyzers JJF 1127-2004	1MHz～3.0GHz		*Urel=2×10-6*		
		Impedance		0.1 Ω ～ 50kΩ	1MHz～100MHz	*Urel=0.4%*		
				0.1 Ω ～ 50kΩ	100MHz～3.0GHz	*Urel=1.5%*		
		Phase		1MHz～100MHz	(-180º ～ +180º)	*U=0.2º*		
				100MHz～3.0GHz	(-180º ～ +180º)	*U=0.9º*		
		Voltage		(-40～+40)V		*Urel=0.2%*		
349	Data Signal Generator	Inner clock Frequency	Calibration Method for Data Signal Generator Q/CTIC301-2008	≤200MHz		*Urel=5×10-5*		
		Outer Clock Input		(-2.0～+7.0)V		*Urel=3%*		
		High-Level Output		(-3.0～+6.0)V		*Urel=3%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
349	Data Signal Generator	Low-Level Output	Calibration Method for Data Signal Generator Q/CTIC301-2008	(-3.0～+6.0)V	(-3.0～+6.0)V	*Urel=3%*		
350	Electric Energy Meter	Electric Energy	Technical Norm of the Calibration of AC Watt-hour Meters at Place of Installation JJF1055-1997	50W.s~1000 kW.h (45Hz~65Hz)		*Urel=(0.6~0.2)%*		
351	Electrostatic Discharge Simulators	Voltage	Calibration Specification for Electrostatic Discharge Simulators JJF 1397-2013	(0.5～40)kV		*Urel=1.5%*		
		Current		(0.1～30)A		*Urel=5.6%*		
		Time		(0.1～1.2)ns		*Urel=5.0%*		
352	Surge immunity test simulator	Voltage	C.S.for Electromagnetic Surge Gnerator JJF(Electron) 30803-2007	(0.25-40)kV		*Urel=3%*		
		Time		(0.1～100) μs		*Urel=2.4%*		
		Current		(0.1～30)kA		*Urel=3%*		
353	Absorbing-Clamp	Insertion Loss	Asorbing Clamp in th the Range of 30MHz to 1.0GHz JJF 1155-2006	(10～30)dB (30MHz～1GHz)		*U=1.9dB*		
354	High Voltage Meter	AC Voltage	Calibration Specification for Digital High Voltage Meter JJF(Lu) 60-2007	100V～1000V (50～60)Hz		*Urel = 1 %～ 0.3 %*		
				(1～10)kV (50～60)Hz		*Urel = 0.4%*		
		DC Voltage		(100～1000)V		*Urel =0.9 %～ 0.3 %*		
				(1～10)kV		*Urel =0.3%*		
355	High Resistance Box	Resistance	DC High Voltage High-impedance Resisetor JJG 1072-2011	100Ω～1kΩ		*Urel=0.005%*		
				1kΩ～10kΩ		*Urel=0.002%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
355	High Resistance Box	Resistance	DC High Voltage High-impedance Resisetor JJG 1072-2011	10kΩ～100kΩ	10kΩ～100kΩ	*Urel=0.002%*		
				100kΩ～1MΩ		*Urel=0.005%*		
				1MΩ～10MΩ		*Urel=0.02%*		
				10MΩ～100MΩ		*Urel=0.2%*		
				100MΩ～1GΩ		*Urel=0.3%*		
				1GΩ～10GΩ		*Urel=0.5%*		
				10GΩ～100GΩ		*Urel=0.5%～1%*		
356	Sinad Meter	Sinad	C.S.for Sinad Meters JJF 1165-2007	(3～30)dB		*U=0.24dB*		
357	Audio-frequency Signal Generator	Frequency	V.R.of Audio-frequency Signal Generator JJG 607-2003	10Hz～100kHz		*Urel=3.5×10-5*		
		Level		10mV～300V		*Urel=0.24%*		
358	RF Coaxial Impedance Standard (Calibration Kit)	Admittance	V. R. of RF Coaxial Impedance Standard JJG (Electronic) 306001-2006	4ns～14ms (1MHz～2GHz)		*Urel=0.3%*		
				4ns～14ms (2GHz～8GHz)		*Urel=0.5%*		
				4ns～14ms (8GHz～18GHz)		*Urel=1.0%*		
		Impedance		(0～22)kΩ (1MHz～2GHz)		*U=0.018Ω*		
				(0～22)kΩ (2GHz～8GHz)		*U=0.021Ω*		
				(0～22)kΩ (8GHz～18GHz)		*U=0.038Ω*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
358	RF Coaxial Impedance Standard (Calibration Kit)	Phase	V. R. of RF Coaxial Impedance Standard JJG (Electronic) 306001-2006	-180° ～ 180° (1MHz～ 2GHz)	-180° ～ 180° (1MHz～ 2GHz)	*U=0.6°*		
				-180° ～ 180° (2GHz～ 8GHz)		*U=1.0°*		
				-180° ～ 180° (8GHz～ 18GHz)		*U=2.0°*		
359	Tesla-Meter	Magnetic Induction Intensity	V.R.of Magnetic Flux Meter JJG 242-1995	1mT～2T		*Urel=0.2%～0.12%*		
360	Noise Meter	Level	C.S.for Noise Meter JJF 1167-2007	(10～ -100)dBm 10Hz～ 100kHz		*U=0.20dB～0.87dB*		
		Impedance		(70～700) Ω		*Urel=0.5%*		
		Weighted Privileges Frequence Characteristic		10Hz～ 32kHz		*U=0.30dB*		
361	Timing Analyer	Time	Calibration Method forTiming Analyer Q/CTIC 02035-2014	10 μ s～1ms		*Urel=0.5%*		
		Voltage		(1～ 2000)mV (0～100)kHz		*U=0.16dB*		
				(1～ 2000)mV (100kHz～ 5MHz)		*U=0.20dB*		
				(1～ 2000)mV (5～20)MHz		*U=0.36dB*		
362	TV Signal Field Strengh Meter	Frequency	V.R.of TV Signal Field Strength Meter JJG 1057-2010	(40～ 1000)MHz		*Urel=3.3×10-5*		
		Level		(30～110)dB μ V (40～ 1000)MHz		*U=1.4dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
363	Electronic Time Relay	Time	C S for Electronic Time Relay JJF 1282-2011	1ms～9999s	1ms～9999s	*Urel=0.51%～0.02%*		
364	Mechanical Characteristics of High-voltage Switch Tester	Time (closing time、Tripping time、Switching synchronization、Gate period、Bounce time)	C S for Mechanical Characteristics of High-voltage Switch Tester JJF(zhe) 1033-2009	1ms～1000ms		*Urel=7×10-4*		
				1000ms～20000ms		*Urel=9×10-6*		
365	Passive Intermodulation Analyzers	Frequency	C S for Passive Intermodulation Analyzers JJF 1463-2014	50MHz～6GHz		*Urel=1.2×10-7*		
		Power		20dBm～48dBm (50MHz～6GHz)		*U=0.22 dB*		
		Passive Intermodulation Measurements		-70dBm～-140dBm (50MHz～6GHz)		*U=0.20 dB～0.30 dB*		
366	Polarity tester	Time	C S of Polarity tester Q/CTIC 02062-2014	10ns～500ms		*Urel=1.2%*		
		Pulse Amplitude		10mV～50V		*Urel=0.2%*		
		Frequency		1Hz～1kHz		*Urel=0.015%*		
367	Charged Plate Monitor	DC Voltage	C S of Charged Plate Monitor JJF (Electronic) 31003-2008	(1～1000)V		*Urel=0.6% ～0.1%*		
		Decay Timer		(0.1～99.9)s		*Urel=0.1%~0.3%*		
368	Voltage Dips、Short Interrupti-ons and Voltage Variations Generator	voltage	C.S.of Voltage Dips、Short Interruptions and Voltage Variations Generator JJF(electron) 30802-2006	(1～300)V		*Urel=1.0%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
368	Voltage Dips、Short Interrupti-ons and Voltage Variations Generator	Time	C.S.of Voltage Dips、Short Interruptions and Voltage Variations Generator JJF(electron) 30802-2006	5ns～50 μ s	5ns～50 μ s	*Urel=10%*		
				50 μ s～10ms		*Urel=2%*		
				10ms～100ms		*Urel=1%*		
				100ms～10s		*Urel=0.7%*		
		Phase		(0～315)°		*U=8.4°*		
369	Capacitor Leakage Current Tester	DC Voltage	V. R. of Capacitor Leakage Current Meter JJG(Electronic) 306003-2006	(1～10)V		*Urel=0.8%*		
				(10～100)V		*Urel=0.6%*		
				(100～1000)V		*Urel=0.8%*		
		Leakage Current		(0.1～100) μ A		*Urel=0.4%*		
				(0.1～1)mA		*Urel=0.9%*		
				(1～10)mA		*Urel=0.4%*		
				(10～100)mA		*Urel=0.2%*		
				(100～1000)mA		*Urel=0.2%*		
		Time		(1～99)s		*Urel=0.9%*		
370	EFT	Voltage	C S of Fast Transient/Burst JJF (Electronics) 30804-2007	(0.25～4)kV		*Urel=3%*		
		Time		4ns～300ms		*Urel=4%*		
		Frequency		5kHz～100kHz		*Urel=0.2%*		
371	Touch Current Tester	Voltage	Calibration Method for Touch Current Tester QCTIC 02056-2014	(10～300)V (10Hz～300kHz)		*Urel =0.4%*		
		DC Resistance		10Ω～10kΩ		*Urel =0.05%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
371	Touch Current Tester	AC Resistance	Calibration Method for Touch Current Tester QCTIC 02056-2014	10Ω～100kΩ (10Hz~1MHz)	10Ω～100kΩ (10Hz~1MHz)	*Urel*＝0.8%		
		Current		1μA～100mA (45Hz~65Hz)		*Urel*＝1%		
		Voltage ratio		1～1382 (20Hz～1MHz)		*Urel*＝1%		
372	Characterization for Transistor	DC Voltage	V. R. of DC and LF Characterization for Transister Tester JJG 725-1991	(0.1～700)V		*Urel*＝0.5%～1%		
		AC Current		1mA～1.1A		*Urel*＝0.3%		
373	Screw Thread Microneters	Length	Screw Thread Microneters JJG 25-2004	（0～200）mm		*U=1.3μm*		
374	Micrometers with Prismatically Arranged Measuring Fac	Length	Micrometers with Prismatically Arranged Measuring Faces JJG 182-2005	（0～100）mm		*U=1.8μm*		
375	Elongation Rate Tester	Length	Verificafion procedure for test equipment of enamelled winding wire Part 3:Elongation tester JB/T 4279.3-2008	0%～60%		*Urel=0.24%*		
376	Bar Code Verifiers	Length	V.R.of Bar Code Verifiers JJG 979-2003	(0.127～5.700)mm		*U=5.4μm*	The width of stripe and empty、bit error rate	
				50%～100%		*Urel=2.2%*	reflectivity	

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
377	Calibration Specification for Contact（Stylus） Surface Contour Tester	Length	V.R. of Calibration Specification for Contact（Stylus） Surface Contour Tester JJF（Min）1043-2011	(0.001～50)mm	(0.001～50)mm	*U= 1.0μm+0.025L L:m*		
378	Dropping test table	Length	Drop test machine calibration method Q/CTIC 02032-2014	(0～500)mm		*U=1.0mm*		
				500mm～5m		*Urel=0.3%*		
379	Extensometer	Indication	V.R.for Extensometer JJG 762-2007	(0～50)mm		*Urel=0.30%*		
		Scale distance		(0～600)mm		*U=0.04mm*		
380	Impact floor	Length	Calibration Specification of Impact floor Q/CTIC 02052-2014	≤1000mm		*U=1.2mm*		
		Thickness		≤50mm		*U=0.4mm*		
		Area		≤1m²		*U= 1.4×103mm2*		
		Hardness		≤100HA, ≤100HD		*U=1.7HA U=1.7HD*		
381	Stability test table	Length	Calibration Specification of Stability test table Q/CTIC 02055-2014	≤1 m		*U=1.1mm*		
		Rotate speed		≤50r/min		*U=(0.03～0.4)r/min*		
		Angle		≤90°		*U=0.2°*		
382	Falling-pendulum Impact Testing Machine	Height	Calibration Specification for Falling Weight Impact Testing Machines JJF 1445-2014	≤5 m		*U=(0.6～2)mm*		
		Mass		(0～30)kg		*U=6mg～1.3g*		
		Radius		（0～300）mm		*U=0.06mm*		
383	Counting Meter	Counting	Calibration Specification of Counting Meter Q/CTIC 02054-2014	≤50000r		*U=0.6r*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
384	Tachometer	Rotate speed	Calibration Specification of Tachometer Q/CTIC 02059-2014	(1～10000) r/min	(1～10000) r/min	*Urel=(0.2～0.3)%*		
		Speed		(0～3000) m/min		*Urel=(0.2～0.3)%*		
385	absorption tester for paper and board	Area	V.R.of absorption tester for paper and board Q/CTIC 02054-2014	(100±10)cm2		*U=0.05cm2*		
		Length		(200±20)mm		*U=0.02mm*		
		weight		(10±1)kg		*U=0.2kg*		
386	Keyboard, button life tester (Hit testing machine)	Speed	Calibration Specification for Keyboard, button life tester (Hit testing machine) Q/CTIC 02061-2014	(0-10000)r/min		*Urel= 0.6 %*		
		distance		≤1000mm		*Urel= 0.5 %*		
		Mass		（0～30）kg		*U=（0.05～2.3) g*		
387	Drum Tester for Tyre Endurance and High Speed Test	Diameter	Calibration Specification of Drum Tester for Tyre Endurance and High Speed Test JJF 1195-2008	(1700±50)mm		*U=4mm*		
		Force		(0.2～200)kN		*Urel=0.4%*		
		Speed		(10～320)km/h		*Urel=0.32%*		
388	Expasion meter of Le-chatelier apparatus	Length	V.R.of Expasion meter of Le-chatelier apparatus JJG（Building material）110-1994	(2～200)mm		*U=(0.014～0.6)mm*		
		Weight		(299.9～300.1)g		*Urel=0.02%*		
389	Le-Chatelier apparatus for soundness test of the portland cement	Length	V.R.of Le-Chatelier apparatus for soundness test of the portland cement JJG(Building material）111-1994	(0.5～150)mm		*U=(0.03～2.4)mm*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
390	Specimen mold for testing mortar strength	Length	V.R.of Specimen mold for testing mortar strength JJG(Building material)122-1999	(0.05～1000)mm	(0.05～1000)mm	*U=(0.007～0.6)mm*		
		Weight		≤6500g		*Urel=0.02%*		
391	Flat and elongaticles standard gauge instrument	Length	V.R.of Flat and elongaticles standard gauge instrument JJG(SU）53-2006	(2.8～100)mm		*U=0.03mm*		
392	Hundred grid	Length	C.S.of Construction Quality Tester Sets JJF 1110-2003	≤300mm		*U=0.03mm*		
393	Grade rod	Length	C.S.of Construction Quality Tester Sets JJF 1110-2003	≤1000mm		*U=0.1mm/m*		
394	Concrete Crack Depth Measuring Instruments	Length	C.S.of Calibration specification for Concrete Crack Width and Depth Measuring Instruments JJF 1334-2012	(35～500)mm		*U=0.007mm*		
395	Concrete Crack Width Measuring Instruments	Length	C.S.of Calibration specification for Concrete Crack Width and Depth Measuring Instruments JJF 1334-2012	(0.01～10)mm		*U=0.003mm*		
396	Nonmetal Building Materials Plastic Limit Measuring Instruments	Length	C.S.of Calibration Specification for Nonmetal Building Materials Plastic Limit Measuring Instruments JJF 1090-2002	(0.5～180)mm		*U=(0.006～0.03)mm*		
		Angle		（30±0.2）°		*U=6′*		
		Weight		(2.5～300)g		*Urel=0.02%*		
397	Liquid & Plastic Limit Gauge	Length	V.R.of Liquid & Plastic Limit Gauge JJG(Traffic) 069-2009	(0～50)mm		*U=(0.007～0.03)mm*		
		Weight		(76～100)g		*Urel=0.02%*		
		Angle		（30±0.2）°		*U=6′*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
397	Liquid & Plastic Limit Gauge	Time	V.R.of Liquid & Plastic Limit Gauge JJG(Traffic) 069-2009	（0～10）s	（0～10）s	*U=0.03s*		
398	standard tesing sieve	Length	V.R.of Verification regulation for the standard tesing sieve of cement fineness JJG(Building material） 106-1999	(0.045～100)mm		*U=(0.006～0.6)mm*		
399	Sand Equivalent Instrument	Length	V.R.of Verification regulation for the Sand Equivalent Instrument JJG（SU）44-2004	(32～420)mm		*U=(0.005～0.03)mm*		
		Weight		(1000±10)g		*Urel=0.02%*		
		Time		(30～1200)s		*U=0.03s*		
		Frequency		(180±2)times/min		*U=0.4 times/min*		
400	Flow Time Tester for Fine Aggregate	Length	V.R.of Flow Time Tester for Fine Aggregate JJG（Traffic）109-2012	(10～150)mm		*U=0.03mm*		
		Angle		≤360°		*U=6′*		
401	Slump tester	Length	V.R.of Consistency testing instrument for concrete mixing JJG（SU）50-2006	(1.5～600)mm		*U=(0.03～0.6)mm*		
402	Cement mortar stratification instrument	Length	Tank and tube calibration method for testing concrete JTJZ 03-18	(100～200)mm		*U=0.06mm*		
403	Cement compression jig	Length	The calibration method of concrete Q/CTIC 02036-2014	(10～350)mm		*U=0.06mm*		
404	Sand filling device	Length	V.R.of Instrument for sand-cone mrtnod density JJG(SU）36-1999	(10～600)mm		*U=(0.006～0.03)mm*		
405	Bend testing of metal cable	Length	Calibration method for bend testing of metal cable Q/CTIC 02060-2014	(0～300)mm		*U=0.06mm*		
406	Bar gauge meter	Length	V.R.of Bar gauge meter JJG(SU) 67-2006	(0～300)mm		*U=0.03mm*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
407	Reinforced concrete covermeter	Length	Calibration Specification for Reinforced concrete covermeter and floorslab thickness tester JJF 1224-2009	(6～350)mm	(6～350)mm	*U=0.007mm*		
408	Carbonization Testers	Length	Calibration Specification for Carbonization Testers JJG（YU）162-2012	(0～8)mm		*U=0.15mm*		
409	Apparatus for Determining Penetration of Bituminous Materials	Length	Calibration Specification for Apparatus for Determining Penetration of Bituminous Materials JJF 1208-2008	(1.00～200)mm		*U=(0.02～0.04)mm*		
		Weight		(2.45～100.05)g		*U=0.02g*		
		Temperature		（0～30）℃		*U=（0.08～0.10）℃*		
		Surface roughness		（0.029～0.171）μm		*U=（0.01～0.02）μm*		
410	Bituminous Materials' Determining Ductility	Speed	Verification Regulation of Bituminous Materials' Determining Ductility JJG（Traffic）023-2002	（1～5）cm/min		*U=（0.03～0.09）cm/min*		
		Length		（10～100）mm		*U=0.10mm*		
		Temperature		（0～30）℃		*U=（0.24～0.27）℃*		
411	Apparatus for Softening Point of Bitumen	Length	Verification Regulation of Apparatus for Softening Point of Bitumen JJG（Traffic）057-2004	（6.4～30）mm		*U=(0.11～0.13)mm*		
		Weight		（2～5）g		*U=0.18g*		
		Temperature		（30～200）℃		*U=（0.31～0.36）℃*		
		Time		（10～1200）s		*U=（0.09～0.17）s*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
412	Asphalt Mixture's Mixing Machine	Rotate Speed	Verification Regulation of Asphalt Mixture's Mixing Machine JJG（Traffic） 064-2006	(40～80)r/min	(40～80)r/min	*U=(0.11～0.28)r/min*		
		Time		0.01s～1h		*U=(0.11～0.42)s*		
		Temperature		(40～300)℃		*U=(0.25～0.59) ℃*		
413	Boiling testing box for soundness of the portland cement	Length	Verification Regulation of Boiling testing box for soundness of the portland cement JJG(Building material）109-1994	（10～75）mm		*U=（0.12～0.28）mm*		
		Temperature		（20～90）℃		*U=1.5 ℃*		
		Resistance		（0～50）MΩ		*Urel=0.001%～0.00025%*		
		Time		(10～3600)s		*U=（0.09～0.25）s*		
414	Asphalt Aging Oven	Temperature	Verification Regulation of Asphalt Aging Oven JJG（Traffic） 056-2004	（20～200）℃		*U=0.4 ℃*		
		Rotate Speed		（5～50）r/min		*U=(0.08～0.52)r/min*		
		Length		（1～200）mm		*U=（0.08～0.34）mm*		
		Time		（60～1800）s		*U=（0.09～0.24）s*		
		Flow		（1000～10000）ml/min		*U=(6.0～58)ml/min*		
415	Testing apparatus for asphalt content by burning method	Temperature	Verification Regulation of Testing apparatus for asphalt content by burning method JJG（Traffic） 072-2006	（50～900）℃		*U=（1.2～1.7）℃*		
		Time		（180～3600）s		*U=(0.09～0.25)s*		
		Weight		（50～3000）g		*U=(0.01～0.02)g*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
416	Compaction Instrument of Soil	Mass	V.R.of Compaction Instrument of Soil JJG（Traffic） 058-2004	(2500~4500) g	(2500~4500) g	*U=0.18g*		
		Length		(2~460)mm		*U=(0.07～1.0)mm*		
417	Asphalt Mixture's Marshall Compaction Test Appararus	Mass	V.R.of Asphalt Mixture's Marshall Compaction Test Appararus JJG（Traffic） 065-2006	(4.536~10.21)kg		*U=(0.18~1.2)g*		
		Length		(12.7~457.2) mm		*U=(0.07~1.0) mm*		
		Speed		(60±5)rpm		*U=1.2rpm*		
418	Los Angeles Testing Machine	Speed	V.R.ofLos Angeles Testing Machine JJG（Traffic） 108-2012	（20～50） r/min		*U=0.3r/min*		
		Mass		(390～445)g		*U=0.07g*		
		Length		（30～100） mm		*U=0.07 mm*		
419	Air Permeability Apparatus	Length	Verification regulation for determination specific surface area of air permeability apparatu JJG (Building material）107-1999	(3~65)mm		*U=0.05mm*		
420	Cement vacuum screen analyzersis apparartus	Length	Verification regulation for Cement vacuum screen analyzersis apparartus JJG（SU）58-2006	（150±0.5） mm		*U=0.05mm*		
		Speed		(30±2)r/min		*U=0.30r/min*		
		Pressure		(-100~0)kPa		*U=0.24kPa*		
421	Cement Mortar Specime Jolting Table	Mass	Verification regulation for cement mortar specime jolting table JJG (Building material）124 一 1999	（6~30）kg		*U=1.8 g*		
		Length		(14.7～ 15.3)mm		*U=0.05 mm*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
421	Cement Mortar Specime Jolting Table	Time	Verification regulation for cement mortar specime jolting table JJG (Building material）124 一 1999	(60±2)s	(60±2)s	*U=0.24 s*		
422	Mortar Mixer	Length	Verification regulation for Mortar Mixers for laboratary JJG（SU）56-2006	(230~380)mm		*U=0.6mm*		
		Speed		（50～100）r/min		*U=0.30r/min*		
423	VeBe consistometer	Frequency	V.R.of Consistency testing instrument for concrete mixing JJG（SU）50-2006	(2~200)Hz		*U=0.3Hz*		
		Displacement		（0.1～10）mm		*U=0.02mm*		
		Length		（0.5～600）mm		*U=（0.06～0.6） mm*		
		Mass		（2750±20）g		*U=0.18g*		
424	Rebound Test Hammer	Length	Verification Regulation of Rebound Test Hammer JJG 817-2011	(18~200)mm		*U=0.07 mm*	brick Rebound Tester 、Cement mortar Rebound Tester、concrete Rebound Tester	
		Friction		(0.1~1)N		*U=0.06 N*		
		Rigidity		(50～1200)N/m		*U=(0.9～5.8)N/m*		
		The calibration value		0~100		*U=1*		
425	Cement concrete vibrating table	Frequency	Verification Regulation of vibrating table for concrte testing JJG(SU）60-2006	(2~200)Hz		*U=0.3Hz*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
425	Cement concrete vibrating table	Displacement	Verification Regulation of vibrating table for concrte testing JJG(SU）60-2006	（0.1～10）mm	（0.1～10）mm	*U=0.02mm*		
426	Wearing machine for cement mortar	Length	Verification regulation of Wearing machine for cement mortar JJG (JT) 097-2009	(2~200)mm		*U=(0.006~ 0.06) mm*		
		Speed		(10～ 1000)r/min		*U=(0.16~ 1.4)r/min*		
		Load		(200~2000)N		*Urel=0.4%*		
427	Relative density meter	Length	Verification regulation of Relative density meter JJD 1021-1994	(40~200)mm		*U=0.05mm*		
		Mass		（500～ 6200）g		*U=0.12g*		
428	Consolidation apparatus	Force	Verification Regulation of Consolidation apparatus JJD 1026-1994	（0～5）kN		*Urel=0.5%*		
		Mass		（200～ 6200）g		*U=0.18g*		
429	Direct shear apparatus	Force	V.R.of Direct shear apparatus JJD 1025-1994	（0～5）kN		*Urel=0.3%*		
		Mass		（200～ 6200）g		*U=0.18g*		
430	Accelerated Polishing Machine	Length	V.R. of Accelerated Polishing Machine JJG（Traffic） 054-2004	(1~600)mm		*U=(0.06~ 0.12) mm*		
		Runout		(0~10)mm		*U=0.024 mm*		
		Speed		(320±5)r/min		*U=0.7r/min*		
		Rubber Hardness		(55±5)HD		*U=1.3HD*		
		Static Pressure		(400±5)N		*U=0.72N*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
431	Marshall test machine for bituminous mixtures	Force	V.R. of Marshall test machine for bituminous mixtures JJG（Traffic）066-2006	(0~50)kN	(0~50)kN	*Urel=0.4%*		
		Displacement		(0~100)mm		*U=0.03 mm*		
432	Vibration sieve machine	Frequency	Calibration specification for Vibration sieve machine Q/CTIC 02051-2014	(100~300)times/min		*U=0.9times/min*		
		Length		(1~600)mm		*U=0.36mm*		
433	Testing Mortar-strength by Penetration Resistance Method	Force	Calibration Specification for Instrument of Testing Mortar-strength by Penetration Resistance Method JJF 1372-2012	(800±8)N		*U=1.3N*		
		Length		（0.01~200）mm		*U=0.05 mm*		
434	Portable Pendulum Tester	Mass	V.R.of Portable Pendulum Tester JJG（Traffic）053-2009	(1500±30)g		*U=0.12g*		
		Length		（1~5000）mm		*U=1.2mm*		
		Static Pressure		(22.2±0.5)N		*U=0.13N*		
435	Apparatus for Time of Setting of Concrete Mixture by Penetration Resistance	Force	V.R.of Apparatus for Time of Setting of Concrete Mixture by Penetration Resistance JJG（Traffic）095-2009	(0~2000)N		*Urel=0.2%*		
		Length		(5~200)mm		*U=(0.008~0.07)mm*		
436	Testing instrument for Crushing value	Length	V.R. of Testing instrument for Crushing value JJG(SU）54-2006	(10~200)mm		*U=0.06mm*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
437	Apparatus to measure water permeability of concrete	Length	Calibration specification for Apparatus to measure water permeability of concrete JTJZ 03-16	(100~200)mm	(100~200)mm	*U=0.08mm*		
		Pressure		(0~25)MPa		*Urel=0.8%*		
438	Rolling Forming Machine	Length	Calibration specification for Rolling Forming Machine JTJZ 04-09	(0.5~1000)mm		*U=0.46mm*		
		Force		(0~50)kN		*Urel=0.4%*		
		Temperature		（-85～200）℃		*U=0.74 ℃*		
439	Rutting test machine	Length	Calibration specification for Rutting test machine JTJZ 04-10	（10~5000）mm		*U=(0.08~1.0) mm*		
		Speed		(0.1~200)mm		*U=0.3times /min*		
		Force		(700~1000)N		*Urel=0.2%*		
		Temperature		（60±1）℃		*U=0.42 ℃*		
		Deformation		(0.5~100)mm		*U=0.022mm*		
440	Test Apparatus for Permeability Coefficient of Asphalt Mixtures	Length	V.R. of Test Apparatus for Permeability Coefficient of Asphalt Mixtures JJG（Traffic）104-2012	(0.05~600)mm		*U=(0.09~0.42)mm*		
		Mass		(1000~6200)g		*U=0.18 g*		
		Volume		(50~600)mL		*U=0.28 mL*		
441	Bulk Density Cylinder	Length	Calibration specification for Bulk Density Cylinder JTJZ 02-08	(10~600)mm		*U=(0.12~0.52)mm*		
442	Pressure Bleeding Device	Length	Calibration specification for Pressure Bleeding Device Q/CTIC 02049-2014	(100~200)mm		*U=0.09mm*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
442	Pressure Bleeding Device	Pressure	Calibration specification for Pressure Bleeding Device Q/CTIC 02049-2014	(0~25)MPa	(0~25)MPa	*Urel = 0.60%*		
443	Single horizontal axis mortar mixer	Speed	Calibration specification for Mixers for concrete test Q/CTIC 02041-2014	(30～60)r/min		*U=0.20r/min*		
		Length		（1~5000）mm		*U=1.3 mm*		
		Time		（0~60）min		*U=0.28s*		
444	Resistance strain Gauge Indicators	Strain	V.R.of Resistance strain Gauge Indicators JJG 623-2005	（0～1000）μ ε		*U=（0.6~1）μ ε*		
				（1000～100000）μ ε		*Urel =0.06%~0.1%*		
445	Steel Anvil	Mass	Calibration specification for Steel Anvil JJG(S)59-2006	（10~45）kg		*U=(1.2~60)g*		
		Hardness		(58~63)HRC		*U=1.8HRC*		
446	Mooney's Viscosimeter	Temperature	V.R.of Rubber Mooney Viscometer JJG（Chemical）102-1991	Room temperature ～300℃		*U=0.17℃*		
		Viscosity		(0～96)ML		*Urel=2.3%*		
447	Curometer for Rubber	Temperature	V.R.of Osciuating Disc Curometer for Rubber JJG(Chemical) 101-1991	Room temperature ～300℃		*U=0.17℃*		
448	Steam Sterilizer	Temperature	Steam Sterilizer JJF 1308-2011	(0～140)℃		*U=0.24℃*		
		Pressure		(1～500)kPa		*Urel=2%*		
449	Open/Closed Cup Flash Point Testers	Temperature	C.S. for Open/Closed Cup Flash Point Testers JJF 1384-2012	（70~170）℃		*U=3.5℃～5.0℃*	Closed Cup Flash Point Testers	

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
449	Open/Closed Cup Flash Point Testers	Temperature	C.S. for Open/Closed Cup Flash Point Testers JJF 1384-2012	（110~230）℃	（110~230）℃	*U=6.6 ℃～8.0 ℃*	Open Cup Flash Point Testers	
450	Color Temperature Meters	Color temperature	V.R.of Color Temperature Meters JJG 212-2003	（2000～3400）K		*U=20K*		
				（3400～9000）K		*U=60K*		
451	Spectrum analysis system	Luminous Flux	V.R of Spectrocolorimeter JJG867-1994 V.R of Standard Incandescent Lamp for Total Luminous Flux JJG247-2008 V.R of Colour Temperature Meter JJG212-2003	(10～200)lm		*Urel =1.8%*		
				(>200～2000)lm		*Urel =1.7%*		
		Chromatic		0～1		*U=0.005*		
		Color temperature		2856K		*U=18K*		
				3000K		*U=19K*		
452	Le Chatelier Flask for Determining Density	Capatility	V.R.of Le Chatelier Flask for Determining Density of Hydraulic Cement JJG（Traffic）092-2009	（0~24）mL		*U=0.02mL*		
453	Standard Viscometer of Bituminous Materials	Temperature	V. R .of Standard Viscometer of Bituminous Materials JJG（Traffic）055-2004	（0~100）℃		*U=0.04 ℃*		
		Length		（0~200）mm		*U=0.03mm*		
		Capatility		（0~200）mL		*U=0.4mL*		
454	Electrochemical Electrode Gas Oxygen Analyzer	Concentration	V.R. of Electrochemical Oxygen Meter JJG 365-2008	0.1%～100%		*Urel =1.6%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
455	Zirconia Oxygen Analyzer	Concentration	V. R. of Zirconia Oxygen Analyzers JJG 535-2004	0.1%～100%	0.1%～100%	*Urel =1.7%*		
456	Paramagnetic Oxygen Analyzers	Concentration	V. R. of Paramagnetic Oxygen Analyzers JJG 662-2005	0.1%～100%		*Urel =1.7%*		
457	Micro Oxygen Analyzers	Concentration	Verification Regulation of Micro Oxygen Analyzers JJG 945-2010	（0～10）μmol/mol		*Urel =2.6%*		
				（>10～100）μmol/mol		*Urel =1.7%*		
				（>100～1000）μmol/mol		*Urel =1.5%*		

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认 可 证 书 附 件

（注册号：CNAS L5102）

名称：深圳市华测计量技术有限公司

地址：广东省深圳市宝安区西乡街道桃花源科技创新园 C 栋

签发日期：2015 年 06 月 11 日　　有效期至：2017 年 05 月 15 日

附件 1 认可的授权签字人及领域

序号	姓　名	授权签字领域	备　注
1	刘文静	全部校准项目及几何量检测项目	
2	陈世郁	全部校准项目及几何量检测项目	
3	周建国	几何量检测和校准项目	
4	侯明	热工和力学校准项目	
5	谭贝	热工和力学校准项目	
6	李鹏辉	理化和光学校准项目	

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CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT

APPENDIX OF ACCREDITATION CERTIFICATE

(Registration No. CNAS L5102)

NAME:CTI Metrology Technology Co., Ltd.

ADDRESS:Building C, Taohuayuan Innovation Park, Xixiang, Baoan District, Shenzhen, Guangdong, China

Date of Issue:2015-06-11 **Date of Expiry:2017-05-15**

APPENDIX 1 ACCREDITED SIGNATORIES AND SCOPE

№	Name	Authorized Scope of Signature	Note
1	Lily Liu	All items of testing and calibration	
2	Chen Shiyu	All items of testing and calibration	
3	Zhou Jianguo	Geometrical items of testing and calibration	
4	Hou Ming	Mechanics and Temperature items of calibration	
5	Tan Bei	Mechanics and Temperature items of calibration	
6	Li Penghui	Physical chemistry and Optics items of calibration	

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中 国 合 格 评 定 国 家 认 可 委 员 会

认 可 证 书 附 件

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地址：广东省深圳市宝安区西乡街道桃花源科技创新园 C 栋

认可依据：ISO/IEC 17025 以及 CNAS 特定认可要求

签发日期：2015 年 06 月 11 日　　有效期至：2017 年 05 月 15 日

附件 3 认可的校准能力范围

序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围	扩展不确定度（k=2）	限制说明	备注
5	内径千分尺	长度	内径千分尺检定规程 JJG 22-2014	(25～500)mm	U=(1.5+5L)μm L-m		
136	非自行指示秤	质量	非自行指示秤检定规程 JJG 14-1997	20g～10kg	U=(1～2)g		
				10kg～100kg	U=(2～20)g		
				100kg～1000kg	U=20g～0.2kg		
137	数字指示秤	质量	数字指示秤检定规程 JJG 539-1997	0.02g～3kg	U=3mg～0.15g		
				3kg～30kg	U=(0.15～3)g		
				30kg～300kg	U=(3～20)g		

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137	数字指示秤	质量	数字指示秤检定规程 JJG 539-1997	300kg～1500kg	U=20g～0.35kg		
				1500kg～3000kg	U=(0.35～0.80)kg		
138	模拟指示秤	质量	模拟指示秤检定规程 JJG 13-1997	2g～10kg	U=(0.5～10)g		
				10kg～30kg	U=(10～30)g		
				30kg～100kg	U=30g～0.10kg		
139	架盘天平	质量	架盘天平检定规程 JJG 156-2004	（0～5）kg	U=0.3d d：分度值		
140	非自动天平	质量	电子天平检定规程 JJG 1036-2008	1mg～500mg	U=(0.06～0.10)mg		
				500mg～1g	U=(0.10～0.12)mg		
				1g～500g	U=(0.12～0.20)mg		
				500g～1kg	U=(0.20～13)mg		
				1kg～30kg	U=13mg～0.2g		
			机械天平检定规程 JJG 98-2006	1mg～500mg	U=(0.02～0.08)mg		
				500mg～1g	U=(0.08～0.10)mg		
				1g～500g	U=(0.10～2.5)mg		
				500g～1kg	U=(2.5～5.0)mg		
				1kg～30kg	U=5.0mg～0.3g		
141	砝码	质量	砝码检定规程 JJG 99-2006	1mg～500mg	U=(0.02～0.07)mg		
				500mg～1g	U=(0.07～0.08)mg		

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141	砝码	质量	砝码检定规程 JJG 99-2006	1g～500g	U=(0.08～2.4)mg		
				500g～1kg	U=(2.4～4.6)mg		
				1kg～25kg	U=4.6mg～0.14g		
142	烘干法水分测定仪	质量	烘干法水分测定仪检定规程 JJG 658-2010	1mg～20kg	U=4d d：分度值		
		含水量		0%～100%	U_{rel}=0.05%		
143	工作测力仪	力值	工作测力仪检定规程 JJG 455-2000	（0～5000）N	U_{rel}=0.3%		
144	摆锤式冲击试验机	力矩	摆锤式冲击试验机检定规程 JJG 145-2007	（0～500）J	U_{rel}=0.15%		
		长度		（0～1）m	U_{rel}=0.15%		
145	悬臂梁式冲击试验机	力矩	悬臂梁式冲击试验机 检定规程 JJG 608-2014	（0～100）J	U_{rel}=0.15%		
		长度		（0～1）m	U_{rel}=0.15%		
146	量仪测力仪	力值	专用工作测力机校准规范 JJF 1134-2005	(0.1～20)N	U_{rel}=0.4%		
147	抗折试验机	力值	抗折试验机检定规程 JJG 476-2001	（0～50）kN	U_{rel}=0.3%		
148	拉力压力和万能材料试验机	力值	拉力、压力和万能材料试验机检定规程 JJG 139-2014	（0～5）MN	U_{rel}=0.3%	不做同轴度	
149	非金属拉力压力和万能试验机	力值	拉力、压力和万能材料 试验机检定规程 JJG 139-2014	（0～5）MN	U_{rel}=0.3%	不做同轴度	
		长度		(0～1000)mm	U_{rel}=0.10%		

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149	非金属拉力压力和万能试验机	速度	拉力、压力和万能材料试验机检定规程 JJG 139-2014	(0.1～1000)mm/min	U_{rel}=0.06%	不做同轴度	
150	电子式万能试验机	力值	电子式万能试验机检定规程 JJG 475-2008	（0～5）MN	U_{rel}=0.3%	不做同轴度	
		长度		(0～1000)mm	U_{rel}=0.10%		
		速度		(0.1～1000)mm/min	U_{rel}=0.06%		
151	弹簧拉压试验机	力值	专用工作测力机校准规范 JJF 1134-2005	（0～200）kN	U_{rel}=0.3%		
152	插拔力试验机	质量	专用工作测力机校准规范 JJF 1134-2005	（1～200）kg	U_{rel}=0.3%		
153	压缩强度试验机	力值	纸板压缩强度试验仪检定规程 JJG(轻工) 49-2000	（0.5～3000）N	U_{rel}=0.3%		
154	纸箱抗压机	力值	纸箱抗压试验机检定规程 JJG(轻工) 115-2000	（0～50）kN	U_{rel}=0.4%		
155	维氏硬度计	硬度	金属维氏硬度计检定规程 JJG 151-2006	(100～1000)HV	U_{rel}=1.1%～2.0%		
156	金属韦氏硬度计	硬度	金属韦氏硬度计检定规程（试行） JJG 944-2013	(1～20)HW	U=0.4 HW		
157	显微硬度计	硬度	金属维氏硬度计检规程 JJG 151-2006	(100～1000)HV	U_{rel}=1.4%～3.5%		
159	邵氏硬度计	硬度	A 型邵氏硬度计检定规程 JJG 304-2003	(10～100)HA	U=0.4HA		

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159	邵氏硬度计	长度	A 型邵氏硬度计检定规程 JJG 304-2003	(0～200)mm	U=0.005mm		
160	橡胶硬度计	硬度	D 型邵氏硬度计检定规程 JJG 1039-2008	(0～100)HD	U=0.4 HD		
		长度		(0～200)mm	U=0.004mm		
161	金属布氏硬度计	硬度	金属布氏硬度计检定规程 JJG 150-2005	（0～125）HBW	U_{rel}=1.3%		
				（125～225）HBW	U_{rel}=1.1%		
				(225～650)HBW	U_{rel}=1.0%		
162	里氏硬度计	硬度	里氏硬度计检定规程 JJG 747-1999	(500～600)HLD(G)	U=3.3 HLD		
				(600～700)HLD(G)	U=3.7 HLD		
				(700～800)HLD(G)	U=4.5 HLD		
163	洛氏硬度计	硬度	金属洛氏硬度计检定规程 JJG 112-2013	(73~90)HRA	U=0.6HRA		
				(78~100)HRB	U=0.8HRB		
				(18~32)HRC	U=0.6HRC		
				(28~52)HRC	U=0.6HRC		
				(48~72)HRC	U=0.5HRC		
164	金属表面洛氏硬度计	硬度	金属洛氏硬度计检定规程 JJG 112-2013	（87～93）HR15N	U=0.6 HRN		
				（40～82）HR30N	U=0.6HRN		

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164	金属表面洛氏硬度计	硬度	金属洛氏硬度计检定规程 JJG 112-2013	（60～72）HR45N	U=0.7HRN		
				（85～95）HR15T	U=0.8HRT		
				（68～84）HR30T	U=0.7HRT		
				（43～74）HR45T	U=0.6HRT		
207	弹簧冲击器	能量	弹簧冲击器校准规范 JJF1475-2014	(0～2) J	U_{rel}=3.6%		
211	木材含水率测量仪	含水率	木材含水率测量仪检定规程 JJG 986-2004	(4~36)%	U=0.4%		
217	旋转粘度计	粘度	旋转粘度计检定规程 JJG 1002-2005	(1~100) mPa·s	U_{rel}=2.6%		
				(100~1000) mPa·s	U_{rel}=1.5%		
				(1000~10000) mPa·s	U_{rel}=1.0%		
				(10000~1.5×106) mPa·s	U_{rel}=1.0%		
218	流出杯式粘度计	粘度	流出杯式粘度计检定规程 JJG 743-1991	(2~700) mm^2/s	U_{rel}=2%		
219	恩氏粘度计	时间	恩氏粘度计检定规程 JJG 742-1991	(51±1)s	U=0.2s		
222	大气采样器	流量	大气采样器检定规程 JJG 956-2013	(0.2~6.0)L/min	U_{rel}=2%		
223	粉尘采样器	流量	粉尘采样器检定规程 JJG 520-2005	(0.2~150)L/min	U_{rel}=2%		

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224	尘埃粒子计数器	粒子浓度	尘埃粒子计数器校准规范 JJF 1190-2008	(0.3~0.5) μm	U_{rel}=15%		
226	可见分光光度计	波长	紫外、可见、近红外分光光度计检定规程 JJG 178-2007	(360~800)nm	U=0.4nm		
		透射比		(0.1~100)%	U=0.6%		
227	单光束紫外可见分光光度计	波长	紫外、可见、近红外分光光度计检定规程 JJG 178-2007	(190~850)nm	U=0.3nm		
		透射比		(0.1~100)%	U=0.6%		
228	双光束紫外可见分光光度计	波长	紫外、可见、近红外分光光度计检定规程 JJG 178-2007	(190~850)nm	U=0.3nm		
		透射比		(0.1~100)%	U=0.6%		
229	荧光分光光度计	检出限	荧光分光光度计检定规程 JJG 537-2006	≤1×10-8 g/mL	U=3×10^{-9} g/mL		
230	原子荧光光度计	检出限	非色散原子荧光光度计检定规程 JJG 939-2009	As: ≤0.4ng	U=0.1ng		
				Sb: ≤0.4ng	U=0.1ng		
				Hg: ≤0.4ng	U=0.1ng		
231	原子吸收分光光度计	检出限	原子吸收分光光度计检定规程 JJG 694-2009	火焰法:≤0.02μg/ml(铜)	U=0.005 μg/ml		
				石墨炉法:≤4pg(镉)	U=0.5pg		
232	冷原子吸收测汞仪	检测限	测汞仪检定规程 JJG 548-2004	Hg: ≤1.0ng/mL	U=0.2ng/mL		

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233	冷原子荧光测汞仪	检测限	测汞仪检定规程 JJG 548-2004	Hg: ≤0.1 ng/mL		U=0.03 ng/mL		
234	定碳定硫分析仪	浓度	定碳定硫分析仪检定规程 JJG 395-1997	C:(0.001~0.010)%		U=0.0004%		
				C:(0.01~0.10)%	C:(0.010~0.0100)%	U=0.003%		
				C:(0.1~1.0)%	C:(0.100~1.000)%	U=0.005%		
				C:(1.00~3.00)%		U=0.02%		
				S:(0.001~0.010)%	S:(0.001~0.010)%	U=0.0005%		
				S:(0.01~0.010)%	S:(0.01~0.010)%	U=0.002%		
				S:(0.1~0.3)%		U=0.004%		
236	气相色谱仪	灵敏度	气相色谱仪检定规程 JJG 700-1999	热导检测器(TCD): ≥800mV·mL/mg		U_{rel}=6%		
		检测限		火焰离子化检测器（FID）: ≤5×10^{-10}g/s		U_{rel}=5%		
				火焰光度检测器（FPD）: ≤5×10^{-10}g/s(硫) ≤1×10^{-10}g/s(磷)		U_{rel}=5%		

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236	气相色谱仪	检测限	气相色谱仪检定规程 JJG 700-1999	氮磷检测器（NPD）： ≤5×10^{-12}g/s(氮） ≤1×10^{-11}g/s(磷）	U_{rel}=5%		
				电子俘获检测器（ECD）： ≤5×10^{-12}g/mL	U_{rel}=5%		
238	液相色谱质谱联用仪	信噪比	液相色谱-质谱联用仪校准规范 JJF 1317-2011	≥10：1	U_{rel}=11%		
239	气相色谱-质谱联用仪	信噪比	台式气相色谱-质谱联用仪校准规范 JJF 1164-2006	≥10：1	U_{rel}=5%		
241	发射光谱仪	检出限	发射光谱仪检定规程 JJG 768-2005	ICP： ≤0.01mg/L(Zn) 、 ≤0.03mg/L(Ni)、 ≤0.005mg/L(Mn) 、 ≤0.02mg/L(Cr)、 ≤0.02mg/L(Cu) 、 ≤0.005mg/L(Ba)	U_{rel}=6%		

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241	发射光谱仪	检出限	发射光谱仪检定规程 JJG 768-2005	直读光谱仪：≤0.02%（C）、≤0.02%（Si）、≤0.02%（Mn）、≤0.01%（Cr）、≤0.02%（Ni）、≤0.01%（V）	U_{rel}=8%		
245	手持糖量（含量）计及手持折射仪	含量	手持糖量(含量)计及手持折射仪检定规程 JJG 820-1993	(1~80)%	U=0.5d,(d 为分度值)		
		折射率		1.3330~1.5200	U=0.0003		
246	阿贝折射仪	折射率	阿贝折射仪检定规程 JJG 625-2001	1.3330~1.6800	$U=8\times10^{-5}$		
247	光泽度计	光泽度	镜向光泽度计、光泽度板检定规程 JJG 696-2002	(2~100)光泽单位	U=1.4 光泽单位		
248	浊度计	浊度	浊度计检定规程 JJG 880-2006	(0.1~400) NTU	U_{rel}=4%		
249	旋光仪及旋光糖量计	旋光度	旋光仪及旋光糖量计检定规程 JJG 536-1998	-45° ~+45°	U=0.003°		
		糖度		(-20~+105)° Z	U=0.03°Z		
251	雾度计	雾度	雾度计校准规范 JJF 1303-2011	0.1~35	U=0.3		
		透射比		(70~90)%	U=0.8%		
254	傅立叶变换红外光谱仪	波数	傅立叶红外光谱仪校准规范 JJF 1319-2011	(800~3100)cm^{-1}	U=0.3 cm^{-1}		

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255	酶标仪	波长	酶标分析仪检定规程 JJG 861-2007	(360~700)nm	U=1.2nm		
		吸光度		(0.001~4.000)A	U=0.006A		
256	火焰光度计	检出限	火焰光度计检定规程 JJG 630-2007	Na: ≤0.004mmol/L	U=0.001 mmol/L		
				K: ≤0.008mmol/L	U=0.0005 mmol/L		
258	四极杆电感耦合等离子体质谱仪 ICP-MS	检出限	四极杆电感耦合等离子体质谱仪校准规范 JJF 1159-2006	Be: ≤30 ng/L，In: ≤10 ng/L，Bi: ≤10 ng/L	U_{rel} =3%		
259	卡氏、库仑水份测定仪	浓度	卡尔·费休库仑法微量水分测定仪检定规程 JJG 1044-2008	(1~5000) μg	U_{rel}=3%		
262	激光粒度分析仪	粒径	激光粒度分析仪校准规范 JJF 1211-2008	(2~5) μm	U_{rel}=5%		
				(5~20) μm	U_{rel}=4%		
				(20~125) μm	U_{rel}=3%		
265	CO、CO2 红外线气体分析仪	浓度	CO、CO2 红外线气体分析器检定规程 JJG 635-2011	CO:(1~500)μmol/mol CO2:(1~5000)μmol/mol	U_{rel} =2.5%		
266	可燃气体检测报警器	浓度	可燃气体检测报警器检定规程 JJG 693-2011	(0.1~100)%LEL	U_{rel}=2.8%		
267	CO 检测报警器	浓度	一氧化碳检测报警器检定规程 JJG 915-2008	(0.1~1000) μmol/mol	U_{rel}=2.5%		

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268	SO2 气体检测仪	浓度	二氧化硫气体检测仪检定规程 JJG 551-2003	(0.1~100) μmol/mol		U_{rel}=2.6%		
269	H2S 气体检测仪	浓度	硫化氢气体检测仪检定规程 JJG 695-2003	(0.1~100) μmol/mol		U_{rel}=2.6%		
280	多功能校准源	直流电压	直流标准电压源检定规程 JJG 445-1986	1mV～10mV		U_{rel}=0.0048%		
				10mV～100mV		U_{rel}=0.0046%		
				100mV～1V		U_{rel}=0.0015%		
				1V～10V		U_{rel}=0.0012%		
				10V～100V		U_{rel}=0.0016%		
				100V～1000V		U_{rel}=0.0020%		
		交流电压	精密交流电压校准源检定规程 JJG 410-1994	1mV～10mV	40Hz～1kHz	U_{rel}=0.17%～0.06%		
					1kHz～20kHz	U_{rel}=0.18%～0.06%		
				10mV～100mV	40Hz～1kHz	U_{rel}=0.036%～0.018%		
					1kHz～20kHz	U_{rel}=0.042%～0.022%		
				100mV～1V	40Hz～1kHz	U_{rel}=0.034%～0.012%		
					1kHz～20kHz	U_{rel}=0.042%～0.022%		
				1V～10V	40Hz～1kHz	U_{rel}=0.034%～0.016%		
					1kHz～20kHz	U_{rel}=0.044%～0.026%		
				10V～100V	40Hz～1kHz	U_{rel}=0.029%～0.027%		
					1kHz～20kHz	U_{rel}=0.08%～0.06%		

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280	多功能校准源	交流电压	精密交流电压校准源检定规程 JJG 410-1994	100V～1000V	40Hz～1kHz	U_{rel}=0.09%～0.08%		
					1kHz～20kHz	U_{rel}=0.098%～0.078%		
		直流电流	直流标准电流源检定规程 JJG(航天) 38-1987	0.1μA～10μA		U_{rel}=0.031%～0.012%		
				10μA～100μA		U_{rel}=0.016%～0.009%		
				100μA～1000μA		U_{rel}=0.0092%～0.0044%		
				1mA～10mA		U_{rel}=0.0096%～0.0045%		
				10mA～100mA		U_{rel}=0.015%～0.006%		
				100mA～1000mA		U_{rel}=0.031%～0.007%		
				1A～10A		U_{rel}=0.068%～0.022%		
		交流电流	交流数字电流源检定规程 JJG(航天) 51-1999	10μA～100μA	45Hz～100Hz	U_{rel}=0.068%～0.023%		
					100Hz～5kHz	U_{rel}=0.068%～0.024%		
				100μA～1mA	45Hz～100Hz	U_{rel}=0.45%～0.25%		
					100Hz～5kHz	U_{rel}=0.35%～0.13%		
		交流电流	交流数字电流源检定规程 JJG(航天) 51-1999	1mA～10mA	45Hz～100Hz	U_{rel}=0.30%～0.08%		
					100Hz～5kHz	U_{rel}=0.31%～0.11%		
				10mA～100mA	45Hz～100Hz	U_{rel}=0.33%～0.13%		
					100Hz～5kHz	U_{rel}=0.30%～0.08%		

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280	多功能校准源	交流电流	交流数字电流源检定规程 JJG(航天) 51-1999	100mA～1A	45Hz～100Hz	U_{rel}=0.35%～0.16%		
					100Hz～5kHz	U_{rel}=0.068%～0.032%		
				1A～10A	45Hz～100Hz	U_{rel}=0.068%～0.033%		
					100Hz～5kHz	U_{rel}=0.38%～0.17%		
280	多功能校准源	电阻	直流电阻器检定规程 JJG 166-1993	0Ω～10Ω		U_{rel}=0.012%～0.005%		
				10Ω～100Ω		U_{rel}=0.015%～0.005%		
				100Ω～1kΩ		U_{rel}=0.0028%～0.0022%		
				1kΩ～10kΩ		U_{rel}=0.0028%～0.0022%		
				10kΩ～100kΩ		U_{rel}=0.0028%～0.0022%		
				100kΩ～1MΩ		U_{rel}=0.0050%～0.0028%		
				1MΩ～10MΩ		U_{rel}=0.022%～0.009%		
				10MΩ～100MΩ		U_{rel}=0.10%～0.08%		
				100MΩ～1000MΩ		U_{rel}=0.015%～0.004%		
281	数字万用表	直流 电压	直流数字电压表检定规程 JJG 315-1983	(1～330)mV		U=0.0020%+1μV		
				0.33V～3.29999V		U= 0.0011%+2μV		
				3.3V～32.9999V		U= 0.0012%+15μV		
				33V～332.9999V		U= 0.0019%+1.5mV		

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281	数字万用表	直流 电压	直流数字电压表检定规程 JJG 315-1983	330V～1020V	330V～1020V	U= 0.0018% +1.5mV		
		交流 电压	交流数字电压表检定规程 JJG(航天) 34-1999	1mV～32.9993mV	(10～45)Hz	U=0.08%+6μV		
					45Hz～10kHz	U=0.15%+6μV		
					(10～20)kHz	U=0.2%+6μV		
					(20～50)kHz	U=0.1%+6μV		
					(50～100)kHz	U=0.35%+12μV		
					(100～500)kHz	U=0.8%+50μV		
				33mV～329.999mV	(10～45)Hz	U=0.03%+8μV		
					45Hz～10kHz	U=0.013%+8μV		
					(10～20)kHz	U=0.015%+8μV		
					(20～50)kHz	U=0.035%+8μV		
					(50～100)kHz	U=0.08%+32μV		
					(100～500)kHz	U=0.2%+70μV		
281	数字万用表	交流电压	交流数字电压表检定规程 JJG(航天) 34-1999	330mV～3.29999V	(10～45)Hz	U=0.03%+50μV		
					45Hz～10kHz	U=0.012%+25		
					(10～20)kHz	U=0.019%+50		
					(20～50)kHz	U=0.03%+50μV		

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281	数字万用表	交流电压	交流数字电压表检定规程 JJG(航天) 34-1999	330mV～3.29999V	(50～100)kHz	U=0.07%+13 mV		
				330mV～3.29999V	(100～500)kHz	U=0.24%+0.60mV		
				3.3V～32.9999V	(10～45)Hz	U=0.03%+0.65mV		
					45Hz～10kHz	U=0.012%+25		
					(10～20)kHz	U=0.024%+0.60mV		
					(20～50)kHz	U=0.035%+0.60mV		
					(50～100)kHz	U=0.09%+1.6 mV		
				33V～329.999V	45Hz～1kHz	U=0.019%+2 mV		
					(1～10)kHz	U=0.02%+6mV		
					(10～20)kHz	U=0.025%+6 mV		
					(20～50)kHz	U=0.03%+6mV		
					(50～100)kHz	U=0.2%+50mV		
281	数字万用表	交流电压	交流数字电压表检定规程 JJG(航天) 34-1999	330V～1020V	45Hz～1kHz	U=0.03%+0.65mV		
					(1～5)kHz	U=0.025%+10		
					(5～10)kHz	U=0.03%+10 mV		
		直流电流	直流数字电流表检定规程 JJG 598-1989	(1～329.999)μA		U=0.015%+0.02μA		
				330μA～3.29999mA		U=0.01%+0.03 μA		

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281	数字万用表	直流电流	直流数字电流表检定规程 JJG 598-1989	3.3mA～32.9999mA		U=0.01%+0.2μA		
				33mA～329.999mA		U=0.01%+2μA		
				330mA～1.09999A		U=0.02%+40μA		
				1.1A～2.99999A		U=0.038%+40		
				3A～10.99999A		U=0.05%+0.33mA		
				11A～20.5A		U=0.1%+0.75mA		
281	数字万用表	交流电流	交流数字电流表检定规程 JJG(航天) 35-1999	(29～329.99)μA	(10～20)Hz	U=0.2%+1μA		
					(20～45)Hz	U=0.15%+0.1μA		
					45Hz～1kHz	U=0.13%+0.1μA		
					(1～5)kHz	U=0.3%+0.15μA		
					(5～10)kHz	U=0.8%+0.2μA		
					(10～30)kHz	U=0.8%+0.2μA		
281	数字万用表	交流电流	交流数字电流表检定规程 JJG(航天) 35-1999	0.33mA～3.2999mA	(10～20)Hz	U=0.2%+15μA		
					(20～45)Hz	U=0.13%+0.1μA		
					45Hz～1kHz	U=0.13%+0.1μA		
					(1～5)kHz	U=0.2%+0.2μA		
					(5～10)kHz	U=0.5%+0.3μA		

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281	数字万用表	交流电流	交流数字电流表检定规程 JJG(航天) 35-1999	0.33mA～3.2999mA	(10～30)kHz	U=1.0%+0.6μA		
				3.3mA～32.999mA	(10～20)Hz	U=0.18%+2μA		
					(20～45)Hz	U=0.09%+2μA		
					45Hz～1kHz	U=0.04%+2μA		
					(1～5)kHz	U=0.08%+2μA		
					(5～10)kHz	U=0.2%+3μA		
					(10～30)kHz	U=0.4%+4μA		
				33mA～329.99mA	(10～20)Hz	U=0.18%+20μA		
					(20～45)Hz	U=0.09%+20μA		
					45Hz～1kHz	U=0.04%+20μA		
					(1～5)kHz	U=0.10%+50μA		
					(5～10)kHz	U=0.2%+0.10mA		
					(10～30)kHz	U=0.4%+0.20mA		
281	数字万用表	交流电流	交流数字电流表检定规程 JJG(航天) 35-1999	0.33A～1.09999A	(10～45)Hz	U=0.18%+0.10mA		
					45Hz～1kHz	U=0.05%+0.10mA		
					(1～5)kHz	U=0.6%+0.10mA		
					(5～10)kHz	U=2.5%+5.0mA		
				1.1A～2.99999A	(10～45)Hz	U=0.18%+0.10mA		

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281	数字万用表	交流电流	交流数字电流表检定规程 JJG(航天) 35-1999	1.1A～2.99999A	45Hz～1kHz	U=0.05%+0.10mA		
					(1～5)kHz	U=0.6%+0.10mA		
				1.1A～2.99999A	(5～10)kHz	U=2.5%+5.0mA		
				3A～10.9999A	(10～45)Hz	U=0.06%+2.0mA		
					45Hz～1kHz	U=0.10%+0.20mA		
					(1～5)kHz	U=3.0%+2.0mA		
				11A～20.5A	(45～100)Hz	U=0.12%+5.0mA		
					100Hz～1kHz	U=0.15%+5.0mA		
					(1～5)kHz	U=3.0%+5.0mA		
281	数字万用表	电阻	直流数字欧姆表检定规程 JJG 724-1991	0.1Ω～329.9999Ω		U=0.0028%+0.002Ω		
				330Ω～1.099999kΩ		U=0.0028%+0.02Ω		
				33kΩ～109.9999kΩ		U=0.0028%+1Ω		
				110kΩ～329.9999kΩ		U=0.0032%+10Ω		
				330kΩ～1.099999MΩ		U=0.0032%+10Ω		
				1.1MΩ～3.299999MΩ		U=0.006%+0.15kΩ		
				3.3MΩ～10.99999MΩ		U=0.013%+0.25kΩ		

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281	数字万用表	电阻	直流数字欧姆表检定规程 JJG 724-1991	11MΩ～32.99999MΩ		U=0.025%+2.5 kΩ		
				33MΩ～109.9999MΩ		U=0.05%+3.0 kΩ		
				110MΩ～329.9999MΩ		U=0.3%+0.10 MΩ		
				330MΩ～1100MΩ		U=1.5%+0.50 MΩ		
285	数字功率计	交流功率	数字式交流电参数测量仪校准规范 JJF 1491-2014	(0.33～1000)V	(45～65)Hz	U_{rel}=0.09%		
				(90～329.99)mA				
				(0.33～1000)V		U_{rel}=0.12%		
				(0.33～0.8999)A				
				(0.33～1000)V		U_{rel}=0.10%		
				(0.9～2.1999)A				
				(0.33～1000)V		U_{rel}=0.13%		
				(2.2～2.4999)A				
				(0.33～1000)V		U_{rel}=0.11%		
				(4.5～20.5)A				
286	电参数测量仪	交流电压	数字式交流电参数测量仪校准规范 JJF 1491-2014	(3.3～33)mV	(10～45)Hz	U=0.12%+9μV		
					45Hz～10kHz	U=0.023%+9μV		

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286	电参数测量仪	交流电压	数字式交流电参数测量仪校准规范 JJF 1491-2014	(3.3～33)mV	(10k～20k)Hz	U=0.03%+9μV		
					(20k～50k)Hz	U=0.15%+9μV		
					(50k～100k)Hz	U=0.53%+18μV		
					(100k～500k)Hz	U=1.2%+75μV		
				(33～330)mV	(10～45)Hz	U=0.045%+12		
					45Hz～10kHz	U=0.02%+12μV		
					(10k～20k)Hz	U=0.023%+12		
					(20k～50k)Hz	U=0.053%+12		
					(50k～100k)Hz	U=0.12%+48μV		
					(100k～500k)Hz	U=0.3%+0.11mV		
				(0.33～3.3)V	(10～45)Hz	U=0.045%+75		
					45Hz～10kHz	U=0.017%+30		
					(10k～20k)Hz	U=0.029%+75		
					(20k～50k)Hz	U=0.045%+75		
					(50k～100k)Hz	U=0.11%+0.19mV		
286	电参数测量仪	交流电压	数字式交流电参数测量仪校准规范 JJF 1491-2014	(0.33～3.3)V	(100k～500k)Hz	U=0.36%+0.9mV		
				(3.3～33)V	(10～45)Hz	U=0.045%+0.98mV		
					45Hz～10kHz	U=0.017%+0.3mV		

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286	电参数测量仪	交流电压	数字式交流电参数测量仪校准规范 JJF 1491-2014	(3.3～33)V	(10k～20k)Hz	U=0.036%+0.98mV		
					(20k～50k)Hz	U=0.053%+0.98mV		
					(50k～100k)Hz	U=0.14%+1.6 mV		
				(33～330)V	(10～45)Hz	U=0.029%+3 mV		
					45Hz～10kHz	U=0.03%+9m V		
					(10k～20k)Hz	U=0.038%+9mV		
					(20k～50k)Hz	U=0.045%+9 mV		
					(50k～100k)Hz	U=0.3%+75m V		
				(330～1000)V	(10～45)Hz	U=0.045%+15		
					45Hz～10kHz	U=0.038%+15		
					(10k～20k)Hz	U=0.045%+15		
		交流电流		(29～330) μA	(10～20)Hz	U=0.3%+0.15 μA		
					(20～45)Hz	U=0.23%+0.15 μA		
					45Hz～1kHz	U=0.19%+0.15 μA		
286	电参数测量仪	交流电流	数字式交流电参数测量仪校准规范 JJF 1491-2014	(29～330) μA	1kHz～5kHz	U=0.45%+0.23 μA		
					5kHz～10kHz	U=0.12%+0.3 μA		
					10kHz～30kHz	U=0.12%+0.3 μA		

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286	电参数测量仪	交流电流	数字式交流电参数测量仪校准规范 JJF 1491-2014	(0.33～3.3)mA	(10～20)Hz	U=0.3%+0.23 μA		
					(20～45)Hz	U=0.19%+0.15 μA		
					45Hz～1kHz	U=0.15%+0.15 μA		
					1kHz～5kHz	U=0.3%+0.3μA		
					5kHz～10kHz	U=0.75%+0.36 μA		
					10kHz～30kHz	U=1.5%+0.9μA		
				(3.3～33)mA	(10～20)Hz	U=0.27%+3μA		
					(20～45)Hz	U=0.14%+3μA		
					45Hz～1kHz	U=0.06%+3μA		
					1kHz～5kHz	U=0.12%+3μA		
					5kHz～10kHz	U=0.3%+3.6μA		
					10kHz～30kHz	U=0.6%+6μA		
286	电参数测量仪	交流电流	数字式交流电参数测量仪校准规范 JJF 1491-2014	(33～330)mA	(10～20)Hz	U=0.27%+30 μA		
					(20～45)Hz	U=0.14%+30 μA		
					45Hz～1kHz	U=0.06%+30 μA		
					1kHz～5kHz	U=0.15%+75 μA		
				(33～330)mA	5kHz～10kHz	U=0.3%+0.15 mA		

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286	电参数测量仪	交流电流	数字式交流电参数测量仪校准规范 JJF 1491-2014	(33～330)mA	10kHz～30kHz	U=0.6%+0.3 mA		
				(0.33～1.1)A	(10～45)Hz	U=0.27%+0.15mA		
					45Hz～1kHz	U=0.075%+0.15mA		
					1kHz～5kHz	U=0.9%+0.15 mA		
					5kHz～10kHz	U=3.8%+7.5 mA		
				(1.1～3.3)A	(10～45)Hz	U=0.27%+0.10mA		
					45Hz～1kHz	U=0.075%+0.15mA		
					1kHz～5kHz	U=0.9%+0.15 mA		
					5kHz～10kHz	U=3.8%+7.5 mA		
				(3.3～11)A	(10～45)Hz	U=0.09%+3mA		
					45Hz～1kHz	U=0.15%+3mA		
					1kHz～5kHz	U=4.5%+3mA		
286	电参数测量仪	交流电流	数字式交流电参数测量仪校准规范 JJF 1491-2014	(11～20)A	45Hz～100Hz	U=0.18%Ix+7.5 mA		
					100Hz～1kHz	U=0.23%Ix+7.5 mA		
					1kHz～5kHz	U=4.5%Ix+7.5 mA		
		交流功率		(10～99)mW	(20～45)Hz	U=0.25%+0.05 mW		

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286	电参数测量仪	交流功率	数字式交流电参数测量仪校准规范 JJF 1491-2014	(10～99)mW	45Hz～1kHz	U=0.18%+0.05 mW		
					1kHz～5kHz	U=0.5%+0.06 mW		
					5kHz～10kHz	U=1.2%+0.10 mW		
				(99～990)mW	(20～45)Hz	U=0.19%+0.05 mW		
					45Hz～1kHz	U=0.16%+0.08 mW		
					1kHz～5kHz	U=0.3%+0.10 mW		
					5kHz～10kHz	U=0.7%+0.15 mW		
				(0.99～9.9)W	(20～45)Hz	U=0.19%+0.5 mW		
					45Hz～1kHz	U=0.15%+0.5 mW		
					1kHz～5kHz	U=0.12%+0.5 mW		
					5kHz～10kHz	U=0.3%+0.8 mW		
286	电参数测量仪	交流功率	数字式交流电参数测量仪校准规范 JJF 1491-2014	(9.9～99)W	(20～45)Hz	U=0.14%+5mW		
					45Hz～1kHz	U=0.15%+5mW		
					1kHz～5kHz	U=0.15%+12 mW		
					5kHz～10kHz	U=0.3%+60mW		
				(99～330)W	(10～45)Hz	U=0.27%+60 mW		
					45Hz～1kHz	U=0.07%+60 mW		

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286	电参数测量仪	交流功率	数字式交流电参数测量仪校准规范 JJF 1491-2014	(99～330)W	1kHz～5kHz	U=0.9%+60mW		
					5kHz～10kHz	U=3.5%+60mW		
				(330～990)W	(10～45)Hz	U=0.27%+60mW		
					45Hz～1kHz	U=0.07%+60mW		
					1kHz～5kHz	U=0.9%+60mW		
					5kHz～10kHz	U=7.5%+60mW		
				(0.99～3.3)kW	(10～45)Hz	U=0.09%+1.2W		
					45Hz～1kHz	U=0.15%+0.12W		
					1kHz～5kHz	U=4.5%+0.6W		
				(3.3～20)kW	45Hz～100Hz	U=0.2%+3W		
					100Hz～1kHz	U=0.13%+3W		
					1kHz～5kHz	U=4.5%+3W		
		功率因素		cosΦ：0～1	(40Hz～10kHz)	U=0.3%+0.0003		
		频率		40Hz～10kHz		U_{rel}=0.06%		
302	高阻计	电阻	高绝缘电阻测量仪(高阻计)检定规程 JJG 690-2003	0.1MΩ～10MΩ		U_{rel}=0.3%		
				10MΩ～100MΩ		U_{rel}=0.6%		
				100MΩ～1000MΩ		U_{rel}=1.2%		
				1GΩ～10GΩ		U_{rel}=2.3%		

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302	高阻计	电阻	高绝缘电阻测量仪(高阻计)检定规程 JJG 690-2003	10GΩ～100GΩ		U_{rel}=5.8%		
		电压		(10~1000)V		U_{rel}=0.5%		
				(≥1~5)kV		U_{rel}=0.8%		
305	线材测试仪	电阻(导通电阻、O/S电阻)	线缆测试仪校准规范 JJF 1457-2014	(0.01～100000)Ω		U_{rel}=0.8%～0.1%		
		绝缘电阻		0.1MΩ～10MΩ		U_{rel}=2.0%		
				10MΩ～100MΩ		U_{rel}=2.1%		
				100MΩ～1000MΩ		U_{rel}=2.3%		
		直流电压		(50～10000)V		U_{rel}=1.2% ～0.1%		
		交流电压		(50～10000)V	10Hz～20kHz	U_{rel}=1.5% ～0.1%		
309	LCR 测量仪	电感	JJG(电子)05020-88《GR1658 型 RLC 数字电桥》 JJG(电子)05014-88《HP4274A、HP4275A 型多频 LCR 表》	1μH～500H (10Hz~1MHz)		见下表 2		
		电容		1pF～1mF (10Hz～13MHz)		见下表 1		
		电阻		1mΩ～1MΩ (DC～13MHz)		见下表 3		

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309	LCR 测量仪	电压	JJG(电子)05020-88《GR1658 型 RLC 数字电桥》JJG(电子)05014-88《HP4274A、HP4275A 型多频 LCR 表》	1mV～5V (10Hz～20kHz)		U_{rel}=0.4% ~0.1%		
				1mV～5V (20kHz～50kHz)		U_{rel}=0.7% ~0.2%		
				1mV～5V (50kHz～13MHz)		U_{rel}=1.2% ~0.2%		
		频率		10Hz～30MHz		$U_{rel}=1\times10^{-5}$		
		损耗	JJF1095-2002《电容器介质损耗测量仪校准规范》	0~0.01 (100Hz~1MHz)		U=0.0003		
				>0.01~1 (100Hz~100kHz)		U=0.003		

309	表 1							
		≥10Hz~100Hz	＞1kHz	＞10kHz~100kHz	＞100kHz~1MHz	*＞1MHz~5MHz*	＞5MHz~10 MHz	
	1pF	\	0.03%	0.18%	0.18%	0.30%	1.0%	
	10pF	\	0.04%	0.05%	0.05%	0.11%	0.15%	
	100pF	\	0.04%	0.05%	0.05%	0.11%	0.15%	
	1000pF	0.1%	0.08%	0.08%	0.08%	0.28%	0.68%	
	>1nF~10nF	0.06%	0.05%	0.15%	\	|	\	
	>10nF~100nF	0.08%	0.6%	0.12%	\	|	\	
	>100nF~1μF	0.15%	0.10%	0.2%	\	|	\	

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309	>1μF ~10μF	0.35%	0.5%	\	\		\	
	>10μF ~100μF	0.5%	0.5%	\	\		\	
	>100μF ~1mF	0.5%	0.5%	\	\		\	
	表 2							
		≥10Hz~ 100Hz	＞1kHz	＞10kHz ~100kHz	＞100kHz ~1MHz	＞1MHz ~5MHz	＞ 5MHz ~10 MHz	
	≥1μH ~10μH	\	0.04%	1.8%	1.8%		\	
	>10μH ~100μH	\	0.04%	0.2%	0.2%		\	
	>100μH ~1mH	0.05%	0.05%	0.2%	0.2%		\	
	>1mH ~10mH	0.05%	0.08%	0.1%	\		\	
	>10mH ~100mH	0.08%	0.1%	\	\		\	
	>100mH ~1H	0.10%	0.15%	\	\		\	
	>1H ~10H	0.1%	0.5%	\	\		\	
	>10H ~500H	0.2%	0.5%	\	\		\	
309	表 3							
		DC~ 100Hz		＞10kHz ~100kHz	＞100kHz ~1MHz	＞1MHz ~5MHz	＞ 5MHz ~10 MHz	
	1mΩ	1.6%	0.1%	\	\		\	
	10mΩ	0.2%	0.1%	\	\		\	
	100mΩ	0.1%	0.05%	0.1%	\		\	
	1Ω	0.1%	0.1%	0.1%	\		\	
	>1Ω ~10Ω	0.05%	0.1%	0.1%	0.1%	0.3%	0.8%	

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309	>10Ω ~100Ω	0.03%	0.12%	0.12%	0.12%	0.15%	0.6%	
	>100Ω ~1kΩ	0.03%	0.15%	0.15%	0.15%	0.2%	0.5%	
	>1kΩ ~10kΩ	0.03%	0.1%	0.1%	0.1%	\	\	
	>10kΩ ~100kΩ	0.03%	0.12%	0.1%	\	\	\	
	>100kΩ ~1MΩ	0.05%	0.15%	0.1%	\	\	\	
317	过程仪表校验仪	电压	过程仪表校验仪校准规范 JJF 1472-2014	(-199～0) mV		U=42μV～4.1μV		
				(0～+199) mV		U=4.1μV～42μV		
		电阻		(1～400)Ω		U=0.5mΩ		
318	电子秒表/时间间隔测量仪(定时器)	时间	秒表检定规程 JJG 237-2010	(0～99999)s		U=0.01s～0.58s		
		日差		±(0～99.99)s/d		U=0.04s/d		
319	机械秒表	时间	秒表检定规程 JJG 237-2010	(0.01～900)s		U=0.06s		
321	通用计数器/频率计	频率	通用计数器检定规程 JJG 349-2014 微波频率计数器检定规程 JJG 841-2012	10Hz～26.5GHz		U_{rel}=2×10^{-9}		
		灵敏度		10Hz～12.4GHz		U=0.3dB		
				12.4GHz～26.5GHz		U=0.7dB		
323	示波器校准仪	电压	示波器校准仪检定规程 JJG 278-2002	1mV～100mV		U_{rel}=5×10^{-4}～1×10^{-4}		

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323	示波器校准仪	电压	示波器校准仪检定规程 JJG 278-2002	100mV～200V		U_{rel}=1×10^{-4}		
		时基		1ns～5s		U_{rel}=1×10^{-7}		
325	数字示波器	垂直偏转幅度	数字存储示波器校准规范 JJF 1057-1998	1mV/div～5mV/div		U_{rel}=1.2%～0.3%		
				5mV/div～10V/div		U_{rel}=0.3%		
		扫描时间		0.5ns/div～10s/div		U_{rel}=0.06%		
		带宽/频响		50kHz～2GHz		U_{rel}=1.5%		
		上升时间		≥150ps		U_{rel} =10%		
		过冲		0.1%~20%		U_{rel}=1.2%		
		阻抗		800kΩ～1.2MΩ		U_{rel}=0.12%		
				40Ω～90Ω		U_{rel}=0.12%		
		校准信号频率		1mV～100V	10Hz~20kHz	U_{rel}=0.12%		
		校准信号幅度		10Hz～1MHz		U_{rel}= 2×10^{-5}		
333	低频信号发生器	频率	低频信号发生器检定规程 JJG 602-2014	10Hz～1MHz		U_{rel}= 2×10^{-5}		
		电压		1mV～100V	10Hz~20kHz	U_{rel}=0.12%		
				1mV～100V	20kHz~50kHz	U_{rel}=0.2%		
				1mV～100V	50kHz~100kHz	U_{rel}=0.8%		
				1mV～100V	100kHz~300kHz	U_{rel}=5.2%		

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333	低频信号发生器	电压	低频信号发生器检定规程 JJG 602-2014	(30 ~ 26)dBm	300kHz~1MHz	U=0.25dB		
				(26~ -10)dBm		U=0.22dB		
				(-10~ -130)dBm		U=0.22dB~0.30dB		
		失真度		>0.03%~100%	20Hz～20kHz	U_{rel}=7.2%		
					20kHz～110kHz	U_{rel}=14%		
				0.005%~0.03%	20Hz～110kHz	U_{rel}=30%		
334	函数信号发生器	频率	函数信号发生器检定规程 JJG 840-1993	1Hz～500MHz		U_{rel} =3×10^{-10}		
		幅度		1mV～100V	10Hz~20kHz	U_{rel}=0.12%		
				1mV～100V	20kHz~50kHz	U_{rel}=0.2%		
				1mV～100V	50kHz~100kHz	U_{rel}=0.8%		
				1mV～100V	100kHz~300kHz	U_{rel}=5.2%		
				(30 ~ 26)dBm	300kHz~500MHz	U=0.25dB		
				(26~ -10)dBm		U=0.22dB		
				(-10~ -130)dBm		U=0.22dB~0.30dB		
334	函数信号发生器	失真度	函数信号发生器检定规程 JJG 840-1993	>0.03%~100%	20Hz～20kHz	U_{rel}=7.2%		
					20kHz～110kHz	U_{rel}=14%		
				0.005%~0.03%	20Hz～110kHz	U_{rel}=30%		

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334	函数信号发生器	谐波	函数信号发生器检定规程 JJG 840-1993	(-80~0)dB	100kHz～500MHz	U=0.70dB		
		调幅度		载波频率	调制频率	调幅范围(5~99)%		
				100kHz~10 MHz	10Hz~10kHz	U_{rel}=1.7%		
				10MHz~26.5 GHz	10Hz~50kHz	U_{rel}=1.2%		
					50kHz~100 kHz	U_{rel}=1.7%		
		调频频偏		载波频率	调制频率	频偏范围(0~500)kHz		
				100kHz~10 MHz	10Hz~10kHz	U_{rel}=1.2%		
				10MHz~26.5 GHz	10Hz~100 kHz	U_{rel}=1.2%		
					100kHz~200 kHz	U_{rel}=3.5%		
334	函数信号发生器	调相相移	函数信号发生器检定规程 JJG 840-1993	载波频率	调制频率	相移范围(0~400)rad		
				100kHz~10 MHz	50Hz~10kHz	U_{rel}=1.2%		
				10MHz~26.5 GHz	50Hz~100 kHz	U_{rel}=1.2%		
		调制频率		100Hz~100kHz		U_{rel}=2.2×10^{-5}		

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334	函数信号发生器	调制失真度	函数信号发生器检定规程 JJG 840-1993	0.001%~100 % (-100dB~0dB)		U_{rel}=6.9%		
336	滤波器	带宽/截止频率	倍频程和 1/3 倍频程滤波器检定规程 JJG 449-2014	20Hz～100kHz		U_{rel}=3.0×10^{-4}		
				100kHz～6GHz		U_{rel}=1.6×10^{-4}		
		波动度		10Hz～50kHz		U=0.02dB		
				50kHz～100kHz		U=0.07dB		
				100kHz～6GHz		U=0.17dB		
338	功率计	功率	436A 型功率计检定规程 JJG(航天) 22-1987	0.1mW/0.3mW/1mW/3mW/10mW/30mW/100mW		U_{rel}=0.3%		
		输出功率		(-10～20)dBm 0.1MHz～18GHz		U=0.1dB		
339	功率传感器	功率校准因子	小功率座检定规程 GJB/J 3598-1999	100kHz～18GHz		U_{rel}=4.0%		
		功率		(10 ～ -70)dBm	100kHz～18GHz	U=0.18dB		
340	信号发生器/数字信号发生器	频率	信号发生器检定规程 JJG 173-2003 数字信号发生器校准规范 JJF 1174-2007	100kHz~26.5GHz		U_{rel}=3×10^{-10}		
		电平		100kHz~4.2 GHz	(30 ~ 26)dBm	U=0.25dB		

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序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围		扩展不确定度（k=2）	限制说明	备注
340	信号发生器/数字信号发生器	电平	信号发生器检定规程 JJG 173-2003 数字信号发生器校准规范 JJF 1174-2007	100kHz~4.2 GHz	(26 ~ -10)dBm	U=0.22dB		
					(-10 ~ -130)dBm	U=0.22dB ~0.30dB		
				4.2GHz~8 GHz	(30 ~ 26)dBm	U=0.31dB		
					(26 ~ -10)dBm	U=0.28dB		
					(-10 ~ -120)dBm	U=0.28dB ~0.35dB		
340	信号发生器/数字信号发生器	电平	信号发生器检定规程 JJG 173-2003 数字信号发生器校准规范 JJF 1174-2007	8GHz~12.4 GHz	(30 ~ 26)dBm	U=0.33dB		
					(26 ~ -10)dBm	U=0.30dB		
					(-10 ~ -120)dBm	U=0.30dB~0.37dB		
				12.4GHz~18 GHz	(30 ~ 26)dBm	U=0.41dB		
					(26 ~ -10)dBm	U=0.40dB		
					(-10 ~ -120)dBm	U=0.40dB~0.47dB		
				18GHz~26.5 GHz	(30 ~ 26)dBm	U=0.69dB		
					(26 ~ -10)dBm	U=0.68dB		
					(-10 ~ -120)dBm	U=0.68dB ~0.75dB		

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340	信号发生器/数字信号发生器	谐波	信号发生器检定规程 JJG 173-2003 数字信号发生器校准规范 JJF 1174-2007	(-80~0)dB	20Hz～10MHz	U=0.83dB		
					10MHz～3.6GHz	U=0.70dB		
					3.6GHz~8GHz	U=1.3dB		
					8GHz~22GHz	U=1.8dB		
		调幅度		载波频率	调制频率	调幅范围(5~99)%		
				100kHz~10MHz	10Hz~10kHz	U_{rel}=1.7%		
				10MHz~26.5GHz	10Hz~50kHz	U_{rel}=1.2%		
					50kHz~100kHz	U_{rel}=1.7%		
		调频频偏		载波频率	调制频率	频偏范围(0~500)kHz		
				100kHz~10MHz	10Hz~10kHz	U_{rel}=1.2%		
				10MHz~26.5GHz	10Hz~100kHz	U_{rel}=1.2%		
					100kHz~200kHz	U_{rel}=3.5%		

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340	信号发生器/数字信号发生器	调相相移	信号发生器检定规程 JJG 173-2003 数字信号发生器校准规范 JJF 1174-2007	载波频率	调制频率	相移范围 (0~400)rad		
				100kHz~10 MHz	50Hz~10kHz	U_{rel}=1.2%		
				10MHz~26.5 GHz	50Hz~100kHz	U_{rel}=1.2%		
		调制频率		100Hz~100kHz		U_{rel}=2.2×10^{-5}		
		调制失真度		0.001%~100 % (-100dB~0dB)		U_{rel}=6.9%		
		波形质量因数 Rho		(0~1.000)		U=0.0012		
		EVM		(0~25)%		U=0.29%		
340	信号发生器/数字信号发生器	幅度误差	信号发生器检定规程 JJG 173-2003 数字信号发生器校准规范 JJF 1174-2007	(0~25)%		U=0.29%		
		相位误差		(0~15)°		U=0.23º		
		频率误差		±30 kHz		U=2.3Hz		
		邻道功率比(ACPR)		(0~80)dBc		U=0.69dB		
		GFSK 误差		(0~5)%		U=3.6kHz		
		DEVM		(0~25)%		U=0.03%		

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341	频谱分析仪/矢量信号分析仪	参考频率	矢量信号分析仪校准规范 JJF 1128-2004 频谱分析仪校准规范 JJF 1396-2013	(1/2/5/10)MHz		U_{rel}=3×10^{-9}		
		频率		100kHz~26.5GHz		U_{rel}=3×10^{-9}		
		电平		100kHz~4.2 GHz	(30 ~ 26)dBm	U=0.17dB		
					(26 ~ -10)dBm	U=0.15dB		
					(-10 ~ -130)dBm	U=0.15dB~0.23dB		
341	频谱分析仪/矢量信号分析仪	电平	矢量信号分析仪校准规范 JJF 1128-2004 频谱分析仪校准规范 JJF 1396-2013	4.2GHz~8 GHz	(30 ~ 26)dBm	U=0.39dB		
					(26 ~ -10)dBm	U=0.36dB		
					(-10 ~ -120)dBm	U=0.36dB~0.43dB		
				8GHz~12.4 GHz	(30 ~ 26)dBm	U=0.61dB		
					(26 ~ -10)dBm	U=0.60dB		
					(-10 ~ -120)dBm	U=0.60dB~0.67dB		
		电平		12.4GHz~18 GHz	(30 ~ 26)dBm	U=0.63dB		
					(26 ~ -10)dBm	U=0.62dB		
					(-10 ~ -120)dBm	U=0.62dB~0.69dB		

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341	频谱分析仪/矢量信号分析仪	电平	矢量信号分析仪校准规范 JJF 1128-2004 频谱分析仪校准规范 JJF 1396-2013	18GHz~26.5 GHz	(30 ~ 26)dBm	U=1.4dB		
					(26 ~ -10)dBm	U=1.3dB		
					(-10 ~ -120)dBm	U=1.4dB		
341	频谱分析仪/矢量信号分析仪	扫频宽度	矢量信号分析仪校准规范 JJF 1128-2004 频谱分析仪校准规范 JJF 1396-2013	100Hz～20GHz		U_{rel} =0.1%		
		分辨力带宽		1Hz～20MHz		U_{rel} =1%		
		分辨力带宽转换		1Hz～20MHz		U=0.02dB		
		校准信号频率		100kHz~4.2GHz		U_{rel} =3×10^{-9}		
		校准信号电平		100kHz~4.2GHz		U=0.15dB		
		衰减器		(0~80) dB		U=0.02dB		
		本底噪声		100kHz~26.5GHz		U=1.6dB		
		波形质量因数 Rho		(0~1.000)		U=0.0012		
		EVM		(0~25)%		U=0.29%		
		幅度误差		(0~25)%		U=0.29%		
		相位误差		(0~15)°		U=0.23°		
		频率误差		±30 kHz		U=2.3Hz		
		邻道功率比(ACPR)		(0~80)dBc		U=0.69dB		
		GFSK 误差		(0~5)%		U=3.6kHz		
		DEVM		(0~25)%		U=0.03%		
		射频信号发生器部分						

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	频率	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	100kHz~26.5GHz		U_{rel} =3×10^{-10}		
		电平		100kHz~4.2GHz	(30 ~ 26)dBm	U=0.25dB		
					(26 ~ -10)dBm	U=0.22dB		
					(-10 ~ -130)dBm	U=0.22dB ~0.30dB		
				4.2GHz~8GHz	(30 ~ 26)dBm	U=0.31dB		
					(26 ~ -10)dBm	U=0.28dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	电平	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	4.2GHz~8 GHz	(-10 ~ -120)dBm	U=0.28dB ~0.35dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	电平	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	8GHz~12.4 GHz	(30 ~ 26)dBm	U=0.33dB		
					(26 ~ -10)dBm	U=0.30dB		
					(-10 ~ -120)dBm	U=0.30dB ~0.37dB		
				12.4GHz~18GHz	(30 ~ 26)dBm	U=0.41dB		
					(26 ~ -10)dBm	U=0.40dB		
					(-10 ~ -120)dBm	U=0.40dB ~0.47dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	电平	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	18GHz~26.5GHz	(30 ~ 26)dBm	U=0.69dB		
					(26 ~ -10)dBm	U=0.68dB		
					(-10 ~ -120)dBm	U=0.68dB ~0.75dB		
		调幅度		载波频率	调制频率	调幅范围 (5~99)%		
				100kHz~10 MHz	10Hz~10kHz	U_{rel}=1.7%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调幅度	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	10MHz~26.5 GHz	10Hz~50kHz	U_{rel}=1.2%		
					50kHz~100 kHz	U_{rel}=1.7%		
		调频频偏		载波频率	调制频率	频偏范围 (0~500)kHz		
				100kHz~10 MHz	10Hz~10kHz	U_{rel}=1.2%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调频频偏	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	10MHz~26.5 GHz	10Hz~100 kHz	U_{rel}=1.2%		
					100kHz~200 kHz	U_{rel}=3.5%		
		调相相移		载波频率	调制频率	相移范围 (0~400)rad		
				100kHz~10 MHz	50Hz~10kHz	U_{rel}=1.2%		
				10MHz~26.5GHz	50Hz~100 kHz	U_{rel}=1.2%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调制频率	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	100Hz~100kHz	U_{rel}=2.2×10^{-5}		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调制失真度	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	0.001%~100 % (－100dB~0dB)	U_{rel}=6.9%		
		波形质量因数 Rho		(0~1.000)	U=0.0012		
		EVM		(0~25)%	U=0.29%		
		幅度误差		(0~25)%	U=0.29%		
		相位误差		(0~15)°	U=0.23°		
		频率误差		±30 kHz	U=2.3Hz		
		邻道功率比(ACPR)		(0~80)dBc	U=0.69dB		
		GFSK 误差		(0~5)%	U=3.6kHz		

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序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围		扩展不确定度（k=2）	限制说明	备注
342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	DEVM	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	(0~25)%		U=0.05%		
		占用带宽		（1.4~20）MHz		U=15kHz		
		IQ 原点偏移		（-20~-70）dB		U=0.50dB		
		单边带相位噪声		载波	频率偏移	U=0. 4dB		
				100MHz～3GHz	10Hz～2MHz			
		频谱纯度		(-90～0) dBc	250kHz～5MHz	U_{rel}=1.4dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	频谱纯度	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	(-90～0) dBc	5MHz～2GHz	U_{rel}=1.2dB		
					2GHz～3.6GHz	U_{rel}=1.9dB		
					3.6GHz～8GHz	U_{rel}=3.3dB		
					8GHz～11GHz	U_{rel}=3.9dB		
					11GHz～13GHz	U_{rel}=4.6dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	射频信号分析部分						
		频率测量	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	100kHz~26.5GHz		$U_{rel}=3\times10^{-9}$		
		电平测量		100kHz~4.2GHz	(30 ~ 26)dBm	U=0.17dB		
					(26 ~ -10)dBm	U=0.15dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	电平测量	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	100kHz ~4.2GHz	(-10 ~ -130)dBm	U=0.15dB ~0.23dB		
				4.2GHz ~8GHz	(30 ~ 26)dBm	U=0.39dB		
					(26 ~ -10)dBm	U=0.36dB		
					(-10 ~ -120)dBm	U=0.36dB ~0.43dB		
				8GHz ~12.4GHz	(30 ~ 26)dBm	U=0.61dB		
					(26 ~ -10)dBm	U=0.60dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	电平测量	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	8GHz ~12.4GHz	(-10 ~ -120)dBm	U=0.60dB ~0.67dB		
				12.4GHz ~18GHz	(30 ~ 26)dBm	U=0.63dB		
					(26 ~ -10)dBm	U=0.62dB		
					(-10 ~ -120)dBm	U=0.62dB ~0.69dB		
				18GHz ~26.5GHz	(30 ~ 26)dBm	U=1.4dB		
					(26 ~ -10)dBm	U=1.3dB		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	电平测量	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	18GHz ~26.5GHz	(-10 ~ -120)dBm	U=1.4dB		
		调幅度测量		载波频率	调制频率	调幅范围 (5~99)%		
				100kHz~10 MHz	10Hz~10kHz	U_{rel}=1.7%		
				10MHz~26.5 GHz	10Hz~50kHz	U_{rel}=1.2%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调幅度测量	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	10MHz~26.5 GHz	50kHz~100 kHz	U_{rel}=1.7%		
		调频频偏测量		载波频率	调制频率	频偏范围 (0~500)kHz		
				100kHz~10 MHz	10Hz~10kHz	U_{rel}=1.2%		
				10MHz~26.5 GHz	10Hz~100 kHz	U_{rel}=1.2%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调频频偏测量	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	10MHz~26.5 GHz	100kHz~200 kHz	U_{rel}=3.5%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	调相相移测量	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	载波频率	调制频率	相移范围 (0~400)rad		
				100kHz~10 MHz	50Hz~10kHz	U_{rel}=1.2%		
				10MHz~26.5GHz	50Hz~100kHz	U_{rel}=1.2%		
		波形质量因数 Rho 测量		(0~1.000)		U=0.0012		
		EVM 测量		(0~25)%		U=0.29%		
		幅度误差测量		(0~25)%		U=0.29%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	相位误差测量	射频通信测试仪校准规范 JJF1065-2000 TDMA－GSM 数字移动通信综合测试仪校准规范 JJF 1131-2005 CDMA 数字移动通信综合测试仪校准规范 JJF 1177-2007 宽带码分多址接入(WCDMA)数字移动通信综合测试仪校准规范 JJF 1276-2011 TD-SCDMA 数字移动通信综合测试仪校准规范 JJF1204-2008 蓝牙测试仪校准规范 JJF1278-2011 无线局域网测试仪校准规范 JJF1277-2011 LTE 数字移动通信综合测试仪校准规范 JJF1443-2014	(0~15)°	U=0.23°		
		频率误差测量		±30 kHz	U=2.3Hz		
		邻道功率比(ACPR)测量		(0~80)dBc	U=0.69dB		
		GFSK 误差测量		(0~5)%	U=3.6kHz		
		DEVM 测量		(0~25)%	U=0.03%		
		占用带宽		（1.4~20）MHz	U=14kHz		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	音频信号发生器部分						
		输出频率	JJF1395-2013《音频分析仪校准规范》	10Hz～300kHz		U_{rel}= 2×10^{-5}		
		输出电压		1mV～100V	10Hz~20kHz	U_{rel}=0.12%		

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342	射频通讯测试仪/综合测试仪/蓝牙测试仪/无线局域网测试仪	输出电压	JJF1395-2013《音频分析仪校准规范》	1mV～100V	20kHz~50kHz	U_{rel}=0.2%		
				1mV～100V	50kHz~100kHz	U_{rel}=0.8%		
				1mV～100V	100kHz~300kHz	U_{rel}=5.2%		
		输出信号失真度		>0.03%~100%	20Hz～20kHz	U_{rel}=7.2%		
					20kHz～110kHz	U_{rel}=14%		
				0.005%~0.03%	20Hz～110kHz	U_{rel}=30%		
		音频信号分析部分						
		频率测量	JJF1395-2013《音频分析仪校准规范》	10Hz～300kHz		U_{rel}= 3.4×10^{-6}		
		交流电压测量		1mV~330V	见下表 1	/		
		失真度测量		(0.001～30)%	见下表 2	/		
342	表 1：电压测量 CMC							
	电压	频率						
		10Hz~45Hz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz ~500kHz*		
	1mV~32.999mV	0.093%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	0.92%+58μV		
	33mV~329.999mV	0.037%+9μV	0.023%+9μV	0.043%+9μV	0.093%+37μV	0.23%+81μV		
	0.33V~3.29999V	0.037%+58μV	0.026%+69μV	0.037%+58μV	0.082%+144μV	0.27%+0.7mV		
	3.3V~32.999V	0.037%+0.8mV	0.031%+0.7mV	0.043%+0.7mV	0.10%+1.8mV	/		

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	33V~330V	0.026%+2.3mV	0.032%+6.9mV	0.037%+6.9 mV	0.23%+57.7 mV	/		
	表 2：失真度测量 CMC							
	失真度	频率						
		20Hz，200Hz	400Hz， 1kHz	10kHz		*20kHz*	50 kHz	
342	30%～0.1%	2.3%±0.00034%	1.2%±0.00034%	2.3%±0.00034%		2.3%±0.00034%	3.5%±0.00034%	
	0.1%～0.03%	2.3%±0.00034%	1.2%±0.00034%	2.3%±0.00034%		2.3%±0.00034%	/	
	0.03%～0.01%	5.8%±0.00034%	5.8%±0.00034%	5.8%±0.00034%		／	/	
	0.01%～0.003%	12%±0.00034%	12%±0.00034%	/		／	/	
345	衰减器	衰减	同轴电阻式衰减器检定规程 JJG 387-2005	100kHz~4.2GHz	(0~10)dB	U=0.17dB		
					(10~120)dB	U=0.17dB~0.24dB		
				4.2GHz~8GHz	(0~10)dB	U=0.18dB		
					(10~120)dB	U=0.18dB~0.25dB		
				8GHz~12.4GHz	(0~10)dB	U=0.18dB		
					(10~120)dB	U=0.18dB~0.25dB		
				12.4GHz~18GHz	(0~10)dB	U=0.20dB		
					(10~120)dB	U=0.20dB~0.27dB		
				18GHz~26.5GHz	(0~10)dB	U=0.24dB		
					(10~120)dB	U=0.24dB~0.31dB		
347	网络分析仪	频率	矢量网络分析仪校准规范 JJF1495-2014	100kHz~26.5GHz		$U_{rel}=3\times10^{-10}$		

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序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围		扩展不确定度（k=2）	限制说明	备注
347	网络分析仪	电平	矢量网络分析仪校准规范 JJF1495-2014	100kHz ~4.2GHz	(30 ~ 26)dBm	U=0.25dB		
					(26 ~ -10)dBm	U=0.22dB		
					(-10 ~ -130)dBm	U=0.22dB~0.30dB		
				4.2GHz ~8GHz	(30 ~ 26)dBm	U=0.31dB		
					(26 ~ -10)dBm	U=0.28dB		
					(-10 ~ -120)dBm	U=0.28dB~0.35dB		
				8GHz ~12.4GHz	(30 ~ 26)dBm	U=0.33dB		
					(26 ~ -10)dBm	U=0.30dB		
					(-10 ~ -120)dBm	U=0.30dB ~0.37dB		
				12.4GHz ~18GHz	(30 ~ 26)dBm	U=0.41dB		
					(26 ~ -10)dBm	U=0.40dB		
					(-10 ~ -120)dBm	U=0.40dB~0.47dB		
				18GHz ~26.5GHz	(30 ~ 26)dBm	U=0.69dB		
					(26 ~ -10)dBm	U=0.68dB		
					(-10 ~ -120)dBm	U=0.68dB ~0.75dB		
		谐波		(-80~0)dB	20Hz～10MHz	U=0.83dB		
					10MHz～3.6GHz	U=0.70dB		
					3.6GHz~8GHz	U=1.3dB		
					8GHz~22GHz	U=1.8dB		
		衰减		(0~100)dB		U=（0.1~1.5）dB		

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序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围		扩展不确定度（k=2）	限制说明	备注
347	网络分析仪	驻波比	矢量网络分析仪校准规范 JJF1495-2014	1.01~2.00		U=0.05		
458	崩解时限测试仪	位移	崩解时限测试仪校准规范 JJF1449-2014	55mm±2mm		U=0.4mm		
		频率		(30～32)次/分		U_{rel}=0.6%		
		温度		(37±1)℃		U=0.3℃		
		时间		(350~1000)s		U_{rel} =13%		
459	液体颗粒计数器	粒径	液体颗粒计数器 JJG 1061-2010	D50≤15μm		U_{rel}=4%	不测油中颗粒	
				15μm<D50≤30μm		U_{rel}=3%		
				D50>70μm		U_{rel}=3%		
		颗粒计数		（100~3000）pc/mL		U_{rel} =4.8%		
460	全球导航卫星系统（GNSS）信号模拟器	载波频率	全球导航卫星系统（GNSS）信号模拟器校准规范 JJF1471-2014	10Hz～3.6GHz		U_{rel} =3×10^{-10}		
		功率		100kHz~4.2GHz	(-10 ~ -130)dBm	U=0.22dB~0.30dB		
					(-170 ~ -130)dBm	U=0.35dB		
		频谱纯度		(-60～-20)dBc	（1～3.6）GHz	U=1.8dB		
		相位噪声		载波	频偏	U=0.6dB		
				100MHz～3.6GHz	10Hz～2MHz			
		误差矢量幅度		(0~25)%		U=0.29%		
		速度范围		（0～36000）m/s		U=0.2m/s		

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序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围	扩展不确定度（k=2）	限制说明	备注
460	全球导航卫星系统（GNSS）信号模拟器	加速度范围	全球导航卫星系统（GNSS）信号模拟器校准规范 JJF1471-2014	（0～2000）m/s^2	U=0.2m/s^2		
		加加速度范围		（0～2000）m/s^3	U=0.2m/s^3		
		伪距		（0.01～0.1）m	U=0.06m		
		伪距率		（0.01～0.1）m/s	U=0.006m/s		
461	电视信号发生器	亮度电平	电视视频信号发生器校准规范 JJF 1235-2010	(1～1000)mV	U_{rel}=1.3%		
		色度电平		(1～1000)mV	U_{rel}=1.2%		
		时间		1μs～99ms	U_{rel}=0.40%		
		相位		（0～360)°	U=0.6°		
462	温度变送器	温度	温度变送器校准规范 JJF1183—2007	(0～500)℃	*U=(0.4～0.5)℃*	不带探头	
				(-30~+100)℃	*U=(0.3~0.2)℃*	带探头	
				(100~300)℃	*U=(0.2~0.3)℃*	带探头	

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序号	测量仪器名称	校准参量	规范代号（含年号）名称	测量范围	扩展不确定度（k=2）	限制说明	备注
463	风速计	风速	热球式风速仪检定规程 JJG（建设）0001-1992	(0.2～30)m/s	*Urel=2.2%*		
			轻便磁感风向风速表 JJG 515-1987				
			电接风向风速仪检定规程 JJG 613-1989				
			轻便三杯风向风速表 检定规程 JJG 431-2014				

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CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT

APPENDIX OF ACCREDITATION CERTIFICATE

(Registration No. CNAS L5102)

NAME:CTI Metrology Technology Co., Ltd.

ADDRESS:Building C, Taohuayuan Innovation Park, Xixiang, Baoan District, Shenzhen, Guangdong, China

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

Date of Issue:2015-06-11 **Date of Expiry:2017-05-15**

APPENDIX 3 ACCREDITED CALIBRATION

№	Instrument	Parameter	Title, Code of Calibration Method	Range	Uncertainty (k=2)	Limitation	Note
5	Internal Micrometer	Length	V.R. of Internal Micrometers JJG 22-2014	(25～500)mm	*U=(1.5+5L)μm L-m*		
136	Nonself-indicating weighing instrument	Mass	V.R. of nonself-indicating weighing instrumen JJG 14-1997	20g～10kg	*U=(1～2）g*		
				10kg～100kg	*U=(2～20）g*		
				100kg～1000kg	*U=20g～0.2kg*		
137	Digital Indicating Weighing Instruments	Mass	V.R.of Digital Indicating Weighing Instruments JJG 539-1997	0.02g～3kg	*U=3mg～0.15g*		
				3kg～30kg	*U=(0.15～3)g*		
				30kg～300kg	*U=(3～20)g*		
				300kg～1500kg	*U=20g～0.35kg*		
				1500kg～3000kg	*U=(0.35～0.80)kg*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
138	Analogue indicating weighing instrument	Mass	V.R.of analogue indicating weighing instrument JJG 13-1997	2g～10kg	2g～10kg	*U=(0.5～10)g*		
				10kg～30kg		*U=(10～30)g*		
				30kg～100kg		*U=30g～0.10kg*		
139	Table Balances	Mass	V.R. of Table Balances JJG 156-2004	（0～5） kg		*U=0.3d* *d: Division*		
140	Non-automatic balance	mass	V.R. of Electronic Balance JJG 1036-2008	1mg～500mg		*U=(0.06～0.10)mg*		
				500mg～1g		*U=(0.10～0.12)mg*		
				1g～500g		*U=(0.12～0.20)mg*		
				500g～1kg		*U=(0.20～13)mg*		
				1kg～30kg		*U=13mg～0.2g*		
			V.R. of Mechanical balance JJG 98-2006	1mg～500mg		*U=(0.02～0.08)mg*		
				500mg～1g		*U=(0.08～0.10)mg*		
				1g～500g		*U=(0.10～2.5)mg*		
				500g～1kg		*U=(2.5～5.0)mg*		
				1kg～30kg		*U=5.0mg～0.3g*		
141	Weights	Mass	V.R.of Weights JJG 99-2006	1mg～500mg		*U=(0.02～0.07)mg*		
				500mg～1g		*U=(0.07～0.08)mg*		
				1g～500g		*U=(0.08～2.4)mg*		
				500g～1kg		*U=(2.4～4.6)mg*		
				1kg～25kg		*U=4.6mg～0.14g*		
142	Moisture Meters	Mass	V. R.of Thermogravimetric Moisture Meters JJG 658-2010	1mg～20kg		*U=4d* *d：Division*		
		Moisture		0%～100%		*Urel=0.05%*		
143	Working Dynamometers	Force	V.R. of Working Dynamometer JJG 455-2000	（0～5000）N		*Urel=0.3%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range	Uncertainty (k=2)	Limitation	Note
144	Pendulum Impact Testing Machine	Torque	V.R. of Pendulum Impact Testing Machine JJG 145-2007	（0～500）J （0～500）J	*Urel=0.15%*		
		Length		（0～1）m	*Urel=0.15%*		
145	Cantilever-Beam (Izod -Type)Impact Testing Machine	Torque	V.R. of Cantilever-Beam (Izod -Type) Impact Testing Machine JJG 608-2014	（0～100）J	*Urel=0.15%*		
		Length		（0～1）m	*Urel=0.15%*		
146	Dynamometer for Measuring Instrument	Force	V.R. of Working Dynamometer JJF 1134-2005	(0.1～20)N	*Urel=0.4%*		
147	Flexure Testing Machine	Force	V.R. of Flexure Testing Machine JJG 476-2001	（0～50）kN	*Urel=0.3%*		
148	Universal tension and compression testing machine	Force	V.R. of universal tension and compression testing machine JJG 139-2014	（0～5）MN	*Urel=0.3%*	except for proper alignment	
149	Tension compression and universal testing machine for non-metallic	Force	V.R. of universal tension and compression testing machine JJG 139-2014	（0～5）MN	*Urel=0.3%*	except for proper alignment	
		Length		(0～1000)mm	*Urel=0.10%*		
		Speed		(0.1～1000)mm/min	*Urel=0.06%*		
150	Electronic universal testing machine	Force	V.R. of Electronic universal testing machine JJG 475-2008	（0～5）MN	*Urel=0.3%*	except for proper alignment	
		Length		(0～1000)mm	*Urel=0.10%*		
		Speed		(0.1～1000)mm/min	*Urel=0.06%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
151	Spring Tension and Compression Testing Machine	Force	C.S.for Working Force Measuring Machine for Special Purposes JJF 1134-2005	（0～200）kN	（0～200）kN	*Urel=0.3%*		
152	Push-pull wirel tester	mass	V.R. of Working Dynamometer JJG(Light industry) 49-2000	（1～200）kg		*Urel=0.3%*		
153	Compressing strength tester	Force	Compression strength testerfor Board JJG(Light industry) 49-2000	（0.5～3000）N		*Urel=0.3%*		
154	Compression Strength Tester for Corrugated Box	Force	Compression Strength Tester for Corrugated Box JJG(Light industry) 115-2000	（0～50）kN		*Urel=0.4%*		
155	Vickers Hardness Tester	Hardness	V.R. of Metal Vickers Hardness Testers JJG 151-2006	(100～1000)HV		*Urel=1.1%～2.0%*		
156	Metallic Webster Hardness Testing Machine	Hardness	V.R. of Metallic Webster Hardness Testing Machine JJG 944-2013	(1-20)HW		*Urel=0.4 HW*		
157	Micro-hardness meter	Hardness	V.R. of Metal Vickers Hardness Testers JJG 151-2006	(100～1000)HV		*Urel=1.4%～3.5%*		
159	Shore document	Hardness	V.R. of shore document JJG 304-2003	(10～100)HA		*U=0.4HA*		
		Length		(0～200)mm		*U＝0.005mm*		
160	rubber document	Hardness	V.R.of The Shore D Durometer JJG 1039-2008	(0～100)HD		*U=0.4 HD*		
		Length		(0～200)mm		*U=0.004mm*		
161	Brinell Hardness Tester	Hardness	V.R.of Metallic Brinell Hardness Testers JJG 150-2005	（0～125）HBW		*Urel=1.3%*		
				（125～225）HBW		*Urel=1.1%*		
				(225～650)HBW		*Urel=1.0%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
162	Equotip Hardness Tester	Hardness	V.R.of Leeb Hardness Tester JJG 747-1999	(500～600)HLD(G)	(500～600)HLD(G)	*U=3.3 HLD*		
				(600～700)HLD(G)		*U=3.7 HLD*		
				(700～800)HLD(G)		*U=4.5 HLD*		
163	Rockwell hardness testing machine	Hardness	V.R.of rockwell hardness testing machine JJG 112-2013	(73~90)HRA		*U=0.6HRA*		
				(78~100)HRB		*U=0.8HRB*		
				(18~32)HRC		*U=0.6HRC*		
				(28~52)HRC		*U=0.6HRC*		
				(48~72)HRC		*U=0.5HRC*		
164	Superficial Rockwell Hardness Tester	Rockwell Hardness Value	V.R.of the Metal Superficial Rockwell Hardness Tester Transmitter JJG 112-2013	（87～93）HR15N		*U=0.6 HRN*		
				（40～82）HR30N		*U=0.6HRN*		
				（60～72）HR45N		*U=0.7HRN*		
				（85～95）HR15T		*U=0.8HRT*		
				（68～84）HR30T		*U=0.7HRT*		
				（43～74）HR45T		*U=0.6HRT*		
207	Spring Hammers	Energy	Calibration Specification for Spring Hammers JJF1475-2014	(0～2) J		*Urel=3.6%*		
211	Wood Moisture Content Measuring Meters	Wood Moisture Content	V.R. of Wood Moisture Content Measuring Meters JJG 986-2004	(4~36)%		*U=0.4%*		
217	Rotational Viscometer	Viscoelasticity	V.R. of Rotational Viscometer JJG 1002-2005	(1~100) mPa·s		*Urel=2.6%*		
				(100~1000) mPa·s		*Urel=1.5%*		
				(1000~10000) mPa·s		*Urel=1.0%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
217	Rotational Viscometer	Viscoelasticity	V.R. of Rotational Viscometer JJG 1002-2005	(10000~1.5×106) mPa·s	(10000~1.5×106) mPa·s	*Urel=1.0%*		
218	Flow Cups Viscose Meter	Viscoelasticity	V.R. of Flow Cups Viscose Meter JJG 743-1991	(2~700) mm2/s		*Urel=2%*		
219	Engler Viscosi-meter	Receive Time	V.R.of Engler Viscosimeter JJG 742-1991	(51±1)s		*U =0.2s*		
222	Atmosphere Sampler	Flow	V.R.of Air Sampler JJG 956-2013	(0.2~6.0)L/min		*Urel=2%*		
223	Dust Sampler	Flow	V.R. of Dust Sampler JJG 520-2005	(0.2~150)L/min		*Urel=2%*		
224	Dust Particles Counts	Particle Concentration	V.R. of Dust Particles Counts JJF 1190-2008	(0.3~0.5)μm		*Urel=15%*		
226	Visible Range Spectrophotomet-er	Wavelength	V.R. of Ultraviolet,Visible,Near-Infrared Spectrophotometer JJG 178-2007	(360~800)nm		*U=0.4nm*		
		Transmittance		(0.1~100)%		*U =0.6%*		
227	Ultraviolet Visible Range Spectrophot-ometer in Single Beam	Wavelength	V.R. of Ultraviolet,Visible,Near-Infrared Spectrophotometer JJG 178-2007	(190~850)nm		*U=0.3nm*		
		Transmittance		(0.1~100)%		*U =0.6%*		
228	Double Beam UV -VIS Spectrophot-ometers	Wavelength	V.R. of Ultraviolet,Visible,Near-Infrared Spectrophotometer JJG 178-2007	(190~850)nm		*U=0.3nm*		
		Transmittance		(0.1~100)%		*U =0.6%*		
229	Fluore scence Spectrophot-ometer	Detection limi	V.R. of Fluorescence Spectrophoto-meter JJG 537-2006	≤1×10-8 g/mL		*U=3×10-9 g/mL*		
230	Atomic Fluores-cence Spectro-meter	Detection limit	V.R. of Non-disperse Atomic Fluorescence Spectrometer JJG 939-2009	As: ≤0.4ng		*U=0.1ng*		
				Sb: ≤0.4ng		*U=0.1ng*		
				Hg: ≤0.4ng		*U=0.1ng*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
231	Atomic Absorption Spectrophot-ometer	Measure Limit	V.R. of Atomic Absorption Spectrophotometer JJG 694-2009	Measuring Copper by Flame Method：≤ 0.02μg/ml(Cu)	Measuring Copper by Flame Method：≤ 0.02μg/ml(Cu)	*U=0.005μg/ml*		
				Measuring Cadmium by G.A：≤4pg(Cd)		*U=0.5pg*		
232	Cold Atomic Absorption Analyzer	Detection Limit	V.R.of Mercury Analyzers JJG 548-2004	Hg: ≤1.0ng/mL		*U=0.2ng/mL*		
233	Atomic Fluorometerfor Determination of Mercury	Detection Limit	V.R.of Mercury Analyzers JJG 548-2004	Hg: ≤0.1 ng/mL		*U=0.03 ng/mL*		
234	Carbon- sulfur Analyzer	Concentration	V.R.of Carbonsulfur Analyzer JJG 395-1997	C:(0.001~0.010)%		*U=0.0004%*		
				C:(0.01~0.10)%	C:(0.010~0.0100)%	*U=0.003%*		
				C:(0.1~1.0)%	C:(0.100~1.000)%	*U=0.005%*		
				C:(1.00~3.00)%		*U=0.02%*		
				S:(0.001~0.010)%	S:(0.001~0.010)%	*U=0.0005%*		
				S:(0.01~0.010)%	S:(0.01~0.010)%	*U=0.002%*		
				S:(0.1~0.3)%		*U=0.004%*		
236	Gas Chromato -graph	Sensitivity	V.R. of Gas Chromatograph JJG 700-1999	TCD: ≥800mV・mL/mg		*Urel=6%*		
		Detection Limit		FID: ≤5×10-10g/s		*Urel=5%*		
				FPD: ≤5×10-10g/s (S) ≤1×10-10g/s (P)		*Urel=5%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range	Uncertainty (k=2)	Limitation	Note
236	Gas Chromato -graph	Detection Limit	V.R. of Gas Chromatograph JJG 700-1999	NPD: ≤5×10-12g/s (N) ≤1×10-11g/s (P)	*Urel=5%*		
				ECD: ≤5×10-12g/mL	*Urel=5%*		
238	Liquid Chromatography-Mass Spectrometers	Signal-to-noise Ratio	V.R of Calibration Specification for Liquid Chromatography-Mass Spectrometers JJF 1317-2011	≥10：1	*Urel=11%*		
239	Gas chromato -graphmass spectro -meter(GC/MS)	SNR	C.S.of GC/MS JJF 1164-2006	≥10：1	*Urel=5%*		
241	Emission Spectro-meter	Detection limit	V.R.of Emission Spectrometer JJG 768-2005	ICP：≤0.01mg/L(Zn) 、≤0.03mg/L(Ni)、≤0.005mg/L(Mn) 、≤0.02mg/L(Cr)、≤0.02mg/L(Cu) 、≤0.005mg/L(Ba)	*Urel=6%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range	Uncertainty (k=2)	Limitation	Note
241	Emission Spectro-meter	Detection limit	V.R.of Emission Spectrometer JJG 768-2005	Direct emission spectrometer: ≤0.02%（C） ≤0.02%（Si） ≤0.02%（Mn） ≤0.01%（Cr） ≤0.02%（Ni） ≤0.01%（V）	*Urel=8%*		
245	Hand Saccharimeter (Contentmeter) and Hand Refractometer	Content	V.R.. of Hand Saccharimeter (Contentmeter) and Hand Refractometer JJG 820-1993	(1~80)%	*U=0.5d, (d-division value)*		
		Refraction Ratio		1.3330~1.5200	*U=0.0003*		
246	Abbe Refracto-meter	Refraction Ratio	V.R. of Abbe Refractometer JJG 625-2001	1.3330~1.6800	*U=8×10-5*		
247	Specular Gloss Meter	Gloss	V.R.of Specular Gloss Meters and Gloss plates JJG 696-2002	(2~100)GU	*U=1.4GU*		
248	Turbidi meter	Turbidy	V.R.of Turbidimeter JJG 880-2006	(0.1~400) NTU	*Urel=4%*		
249	Polari-meter	Polary	V.R.of Polarimeter and Sacchari meter JJG 536-1998	-45°~+45°	*U=0.003°*		
		Sacchari -metry		（-20~+105）° Z	*U=0.03°Z*		
251	Hazemeter	Haze	V.R of Calibration Specification for Hazemeter JJF 1303-2011	0.1~35	*U=0.3*		
		Transmissivity		(70~90)%	*U=0.8%*		
254	Fourier Transform Infrared Spectrometer	Wave Numbers	C.S. of Fourier Transform Infrared Spectrometer JJF 1319-2011	(800~3100)cm-1	*U=0.3 cm-1*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range	Uncertainty (k=2)	Limitation	Note
255	ELISA Analytical Instruments	Wavelength	V.R.of ELISA Analytical Instruments JJG 861-2007	(360~700)nm	*U=1.2nm*		
		Absorbency		(0.001~4.000)A	*U=0.006A*		
256	Flame Photometer	Detection limit	V. R. of Flame Photometer JJG 630-2007	Na: ≤0.004mmol/L	*U=0.001 mmol/L*		
				K: ≤0.008mmol/L	*U=0.0005 mmol/L*		
258	Quadrupole Inductively Coupled Plasma Mass Spectrometers	Detection limit	Calibration Specification for Quadrupole Inductively Coupled Plasma Mass Spectrometers JJF 1159-2006	Be: ≤30 ng/L， In: ≤10 ng/L， Bi: ≤10 ng/L	*Urel =3%*		
259	Instrument for KF Coulometry Titration	Concentration	V. R. of Instrument for KF Coulometry Titration JJG 1044-2008	(1~5000)μg	*Urel=3%*		
262	Static Light Scattering Particle Size Analyzers	Grain diameter	C.S.for Static Light Scattering Particle Size Analyzers JJF 1211-2008	(2~5)μm	*Urel=5%*		
				(5~20)μm	*Urel=4%*		
				(20~125)μm	*Urel=3%*		
265	CO、CO2 Infrared Gas Aanlyzer	Concentra-tion	V. R. of Carbon Monooxide and Carbon Dioxide Infrared Gas Aanlyzer JJG 635-2011	CO:(1~500)μmol/mol CO2:(1~5000)μmol/mol	*Urel =2.5%*		
266	Alarmer Detectors of Combustible Gas	Concentra-tion	V.R of Alarmer Detectors of Combustible Gas JJG 693-2011	(0.1~100)%LEL	*Urel=2.8%*		
267	Carbon Monoxide Detector	Concentra-tion	V.R of Carbon Monoxide Detector JJG 915-2008	(0.1~1000)μmol/mol	*Urel=2.5%*		
268	Sulfur Dioxide Gas Detectors	Concentra-tion	V.R of Sulfur Dioxide Gas Detectors JJG 551-2003	(0.1~100)μmol/mol	*Urel=2.6%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
269	Sulfur Hydrogen Gas Detectors	Concentra-tion	V.R of Sulfur Hydrogen Gas Detectors JJG 695-2003	(0.1~100)μmol/mol		*Urel=2.6%*		
280	Multifunc- tion Calibrator	DCV	V.R. of DC Standard Voltage Source JJG 445-1986	1mV～10mV		*Urel=0.0048%*		
				10mV～100mV		*Urel=0.0046%*		
				100mV～1V		*Urel=0.0015%*		
				1V～10V		*Urel=0.0012%*		
				10V～100V		*Urel=0.0016%*		
				100V～1000V		*Urel=0.0020%*		
		ACV	V.R.of Precise AC Voltage Calibration Source JJG 410-1994	1mV～10mV	40Hz～1kHz	*Urel=0.17%～0.06%*		
					1kHz～20kHz	*Urel=0.18%～0.06%*		
				10mV～100mV	40Hz～1kHz	*Urel=0.036%～0.018%*		
					1kHz～20kHz	*Urel=0.042%～0.022%*		
				100mV～1V	40Hz～1kHz	*Urel=0.034%～0.012%*		
					1kHz～20kHz	*Urel=0.042%～0.022%*		
				1V～10V	40Hz～1kHz	*Urel=0.034%～0.016%*		
					1kHz～20kHz	*Urel=0.044%～0.026%*		
				10V～100V	40Hz～1kHz	*Urel=0.029%～0.027%*		
					1KHz～20kHz	*Urel=0.08%～0.06%*		
280	Multifunc- tion Calibrator	ACV	V.R.of Precise AC Voltage Calibration Source JJG 410-1994	100V～1000V	40Hz～1kHz	*Urel=0.09%～0.08%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
280	Multifunc- tion Calibrator	ACV	V.R.of Precise AC Voltage Calibration Source JJG 410-1994	100V～1000V		*Urel=0.098%～0.078%*		
		DCI	V.R. of DC Standard Source JJG 38-1987	0.1μA～10μA		*Urel=0.031%～0.012%*		
				10μA～100μA		*Urel=0.016%～0.009%*		
				100μA～1000μA		*Urel=0.0092%～0.0044%*		
				1mA～10mA		*Urel=0.0096%～0.0045%*		
				10mA～100mA		*Urel=0.015%～0.006%*		
				100mA～1000mA		*Urel=0.031%～0.007%*		
				1A～10A		*Urel=0.068%～0.022%*		
		ACI	V.R of AC standard current Source JJG(Aerospace) 51-1999	10μA～100μA	45Hz～100Hz	*Urel=0.068%～0.023%*		
					100Hz～5KHz	*Urel=0.068%～0.024%*		
				100μA～1mA	45Hz～100Hz	*Urel=0.45%～0.25%*		
					100Hz～5kHz	*Urel=0.35%～0.13%*		
		ACI	V.R of AC standard current Source JJG(Aerospace) 51-1999	1mA～10mA	45Hz～100Hz	*Urel=0.30%～0.08%*		
					100Hz～5kHz	*Urel=0.31%～0.11%*		
				10mA～100mA	45Hz～100Hz	*Urel=0.33%～0.13%*		
					100Hz～5kHz	*Urel=0.30%～0.08%*		
				100mA～1A	45Hz～100Hz	*Urel=0.35%～0.16%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
280	Multifunc- tion Calibrator	ACI	V.R of AC standard current Source JJG(Aerospace) 51-1999	100mA～1A	100Hz～5kHz	*Urel=0.068%～0.032%*		
				1A～10A	45Hz～100Hz	*Urel=0.068%～0.033%*		
					100Hz～5kHz	*Urel=0.38%～0.17%*		
280	Multifunc- tion Calibrator	Resistance	V.R. of DC Resistor JJG 166-1993	0 Ω～10 Ω		*Urel=0.012%～0.005%*		
				10 Ω～100 Ω		*Urel=0.015%～0.005%*		
				100 Ω～1k Ω		*Urel=0.0028%～0.0022%*		
				1k Ω～10k Ω		*Urel=0.0028%～0.0022%*		
				10k Ω～100k Ω		*Urel=0.0028%～0.0022%*		
				100k Ω～1M Ω		*Urel=0.0050%～0.0028%*		
				1M Ω～10M Ω		*Urel=0.022%～0.009%*		
				10M Ω～100M Ω		*Urel=0.10%～0.08%*		
				100M Ω～1000M Ω		*Urel=0.015%～0.004%*		
281	Digital Multimet- er	DCV	V.R.of DC Digital Voltmeter JJG 315-1983	(1～330)mV		*U= 0.0020%+ 1μV*		
				0.33V～3.29999V		*U= 0.0011%+ 2μV*		
				3.3V～32.9999V		*U= 0.0012%+ 15μV*		
				33V～332.9999V		*U= 0.0019%+ 1.5mV*		
				330V～1020V		*U= 0.0018%+ 1.5mV*		
281	Digital Multimet- er	ACV	V.R.of AC Digital Voltmeter JJG(Aerospace) 34-1999	1mV～32.9993mV	(10～45)Hz	*U=0.08%+6μV*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
281	Digital Multimeter	ACV	V.R.of AC Digital Voltmeter JJG(Aerospace) 34-1999	1mV～32.9993mV	45Hz～10kHz	*U=0.15%+6μV*		
					(10～20)kHz	*U=0.2%+6μV*		
					(20～50)kHz	*U=0.1%+6μV*		
					(50～100)kHz	*U=0.35%+12mv*		
					(100～500)kHz	*U=0.8%+50μV*		
				33mV～329.999mV	(10～45)Hz	*U=0.03%+8μV*		
					45Hz～10kHz	*U=0.013%+8μV*		
					(10～20)kHz	*U=0.015%+8μV*		
					(20～50)kHz	*U=0.035%+8μV*		
					(50～100)kHz	*U=0.08%+32μV*		
					(100～500)kHz	*U=0.2%+70μV*		
281	Digital Multimeter	ACV	V.R.of AC Digital Voltmeter JJG(Aerospace) 34-1999	330mV～3.29999V	(10～45)Hz	*U=0.03%+50μV*		
					45Hz～10kHz	*U=0.012%+25μV*		
					(10～20)kHz	*U=0.019%+50μV*		
					(20～50)kHz	*U=0.03%+50μV*		
					(50～100)kHz	*U=0.07%+13mV*		
				330mV～3.29999V	(100～500)kHz	*U=0.24%+0.60mV*		
281	Digital Multimeter	ACV	V.R.of AC Digital Voltmeter JJG(Aerospace) 34-1999	3.3V～32.9999V	(10～45)Hz	*U=0.03%+0.65mV*		
					45Hz～10kHz	*U=0.012%+25μV*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
281	Digital Multimeter	ACV	V.R.of AC Digital Voltmeter JJG(Aerospace) 34-1999	3.3V～32.9999V	(10～20)kHz	*U=0.024%+0.60mV*		
					(20～50)kHz	*U=0.035%+0.60mV*		
					(50～100)kHz	*U=0.09%+1.6mV*		
				33V～329.999V	45Hz～1kHz	*U=0.019%+2mV*		
					(1～10)kHz	*U=0.02%+6mV*		
					(10～20)kHz	*U=0.025%+6mV*		
					(20～50)kHz	*U=0.03%+6mV*		
					(50～100)kHz	*U=0.2%+50mV*		
				330V～1020V	45Hz～1kHz	*U=0.03%+0.65mV*		
					(1～5)kHz	*U=0.025%+10mV*		
					(5～10)kHz	*U=0.03%+10mV*		
		DCI	V.R.of DC Digital Amperemete JJG 598-1989	(1～329.999) μA		*U=0.015%+0.02μA*		
				330 μA～3.29999mA		*U=0.01%+0.03μA*		
				3.3mA～32.9999mA		*U=0.01%+0.2μA*		
				33mA～329.999mA		*U=0.01%+2μA*		
				330mA～1.09999A		*U=0.02%+40μA*		
				1.1A～2.99999A		*U=0.038%+40μA*		
				3A～10.99999A		*U=0.05%+0.33mA*		
				11A～20.5A		*U=0.1%+0.75mA*		

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281	Digital Multimeter	ACI	V.R.of AC Digital Ampere meter JJG(Aerospace) 35-1999	(29～329.99) μA	(10～20)Hz	*U=0.2%+1μA*		
					(20～45)Hz	*U=0.15%+ 0.1μA*		
					45Hz～1kHz	*U=0.13%+ 0.1μA*		
					(1～5)kHz	*U=0.3%+ 0.15μA*		
					(5～10)kHz	*U=0.8%+ 0.2μA*		
					(10～30)kHz	*U=0.8%+ 0.2μA*		
				0.33mA～ 3.2999mA	(10～20)Hz	*U=0.2%+15μA*		
					(20～45)Hz	*U=0.13%+ 0.1μA*		
					45Hz～1kHz	*U=0.13%+ 0.1μA*		
					(1～5)kHz	*U=0.2%+ 0.2μA*		
					(5～10)kHz	*U=0.5%+ 0.3μA*		
				0.33mA～ 3.2999mA	(10～30)kHz	*U=1.0%+ 0.6μA*		
				3.3mA～ 32.999mA	(10～20)Hz	*U=0.18%+2μA*		
				3.3mA～ 32.999mA	(20～45)Hz	*U=0.09%+2μA*		
					45Hz～1kHz	*U=0.04%+2μA*		
					(1～5)kHz	*U=0.08%+2μA*		
					(5～10)kHz	*U=0.2%+3μA*		
					(10～30)kHz	*U=0.4%+4μA*		
				33mA～ 329.99mA	(10～20)Hz	*U=0.18%+ 20μA*		
					(20～45)Hz	*U=0.09%+ 20μA*		
					45Hz～1kHz	*U=0.04%+ 20μA*		
				33mA～ 329.99mA	(1～5)kHz	*U=0.10%+ 50μA*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
281	Digital Multimeter	ACI	V.R.of AC Digital Ampere meter JJG(Aerospace) 35-1999	33mA～329.99mA	(5～10)kHz	*U=0.2%+ 0.10mA*		
					(10～30)kHz	*U=0.4%+ 0.20mA*		
281	Digital Multimeter	ACI	V.R.of AC Digital Ampere meter JJG(Aerospace) 35-1999	0.33A～1.09999A	(10～45)Hz	*U=0.18%+ 0.10mA*		
					45Hz～1kHz	*U=0.05%+ 0.10mA*		
					(1～5)kHz	*U=0.6%+ 0.10mA*		
					(5～10)kHz	*U=2.5%+ 5.0mA*		
				1.1A～2.99999A	(10～45)Hz	*U=0.18%+ 0.10mA*		
					45Hz～1kHz	*U=0.05%+ 0.10mA*		
					(1～5)kHz	*U=0.6%+ 0.10mA*		
					(5～10)kHz	*U=2.5%+ 5.0mA*		
				3A～10.9999A	(10～45)Hz	*U=0.06%+ 2.0mA*		
					45Hz～1kHz	*U=0.10%+ 0.20mA*		
					(1～5)kHz	*U=3.0%+ 2.0mA*		
				11A～20.5A	(45～100)Hz	*U=0.12%+ 5.0mA*		
					100Hz～1kHz	*U=0.15%+ 5.0mA*		
					(1～5)kHz	*U=3.0%+ 5.0mA*		
281	Digital Multimeter	Resistance	V.R. for DC Digital Ohmmeter JJG 724-1991	0.1Ω～329.9999Ω		*U=0.0028%+ 0.002Ω*		
				330Ω～1.099999kΩ		*U=0.0028%+ 0.02Ω*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
281	Digital Multimeter	Resistance	V.R. for DC Digital Ohmmeter JJG 724-1991	33kΩ～109.9999kΩ	33kΩ～109.9999kΩ	*U=0.0028%+1Ω*		
				110kΩ～329.9999kΩ		*U=0.0032%+10Ω*		
				330kΩ～1.099999MΩ		*U=0.0032%+10Ω*		
				1.1MΩ～3.299999MΩ		*U=0.006%+0.15kΩ*		
				3.3MΩ～10.99999MΩ		*U=0.013%+0.25kΩ*		
				11MΩ～32.99999MΩ		*U=0.025%+2.5kΩ*		
				33MΩ～109.9999MΩ		*U=0.05%+3.0kΩ*		
				110MΩ～329.9999MΩ		*U=0.3%+0.10MΩ*		
				330MΩ～1100MΩ		*U=1.5%+0.50MΩ*		
285	AC Digital Powermeter	ACV	C.S. for Digital AC Electrical Parameters JJF 1491-2014	(0.33～1000)V	(45～65)Hz	*Urel=0.09%*		
				(90～329.99)mA				
				(0.33～1000)V		*Urel=0.12%*		
				(0.33～0.8999)A				
				(0.33～1000)V		*Urel=0.10%*		
				(0.9～2.1999)A				
				(0.33～1000)V		*Urel=0.13%*		
				(2.2～2.4999)A				
				(0.33～1000)V		*Urel=0.11%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
285	AC Digital Powermeter	ACV	C.S. for Digital AC Electrical Parameters JJF 1491-2014	(4.5～20.5)A	(45～65)Hz	*Urel=0.11%*		
286	Electrical Measurement Instrument	ACV	C.S. for Digital AC Electrical Parameters JJF 1491-2014	(3.3～33)mV	(10～45)Hz	*U=0.12%+9μV*		
					45Hz～10kHz	*U=0.023%+9μV*		
					(10k～20k)Hz	*U=0.03%+9μV*		
					(20k～50k)Hz	*U=0.15%+9μV*		
					(50k～100k)Hz	*U=0.53%+18μV*		
					(100k～500k)Hz	*U=1.2%+75μV*		
				(33～330)mV	(10～45)Hz	*U=0.045%+12μV*		
					45Hz～10kHz	*U=0.02%+12μV*		
					(10k～20k)Hz	*U=0.023%+12μV*		
					(20k～50k)Hz	*U=0.053%+12μV*		
					(50k～100k)Hz	*U=0.12%+48μV*		
					(100k～500k)Hz	*U=0.3%+0.11mV*		
				(0.33～3.3)V	(10～45)Hz	*U=0.045%+75μV*		
					45Hz～10kHz	*U=0.017%+30μV*		
					(10k～20k)Hz	*U=0.029%+75μV*		
				(0.33～3.3)V	(20k～50k)Hz	*U=0.045%+75μV*		
					(50k～100k)Hz	*U=0.11%+0.19mV*		
286	Electrical Measurement Instrument	ACV	C.S. for Digital AC Electrical Parameters JJF 1491-2014	(0.33～3.3)V	(100k～500k)Hz	*U=0.36%+0.9mV*		
				(3.3～33)V	(10～45)Hz	*U=0.045%+0.98mV*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
286	Electrical Measure-ment Instru-ment	ACV	C.S. for Digital AC Electrical Parameters JJF 1491-2014	(3.3～33)V	45Hz～10kHz	*U=0.017%+ 0.3mV*		
					(10k～20k)Hz	*U=0.036%+ 0.98mV*		
					(20k～50k)Hz	*U=0.053%+ 0.98mV*		
					(50k～100k)Hz	*U=0.14%+ 1.6mV*		
				(33～330)V	(10～45)Hz	*U=0.029%+ 3mV*		
					45Hz～10kHz	*U=0.03%+ 9mV*		
					(10k～20k)Hz	*U=0.038%+ 9mV*		
					(20k～50k)Hz	*U=0.045%+ 9mV*		
				(33～330)V	(50k～100k)Hz	*U=0.3%+ 75mV*		
				(330～1000)V	(10～45)Hz	*U=0.045%+ 15mV*		
					45Hz～10kHz	*U=0.038%+ 15mV*		
					(10k～20k)Hz	*U=0.045%+ 15mV*		
		ACI		(29～330) μA	(10～20)Hz	*U=0.3%+ 0.15μA*		
					(20～45)Hz	*U=0.23%+ 0.15μA*		
					45Hz～1kHz	*U=0.19%+ 0.15μA*		
286	Electrical Measure-ment Instrument	ACI	C.S. for Digital AC Electrical Parameters JJF 1491-2014	(29～330) μA	1kHz～5kHz	*U=0.45%+ 0.23μA*		
					5kHz～10kHz	*U=0.12%+ 0.3μA*		
					10kHz～30kHz	*U=0.12%+ 0.3μA*		
				(0.33～3.3)mA	(10～20)Hz	*U=0.3%+ 0.23μA*		
					(20～45)Hz	*U=0.19%+ 0.15μA*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
286	Electrical Measure-ment Instrument	ACI	C.S. for Digital AC Electrical Parameters JJF 1491-2014	(0.33～3.3)mA	45Hz～1kHz	*U=0.15%+0.15μA*		
					1kHz～5kHz	*U=0.3%+0.3μA*		
					5kHz～10kHz	*U=0.75%+0.36μA*		
					10kHz～30kHz	*U=1.5%+0.9μA*		
286	Electrical Measure-ment Instrument	ACI	C.S. for Digital AC Electrical Parameters JJF 1491-2014	(3.3～33)mA	(10～20)Hz	*U=0.27%+3μA*		
					(20～45)Hz	*U=0.14%+3μA*		
					45Hz～1kHz	*U=0.06%+3μA*		
					1kHz～5kHz	*U=0.12%+3μA*		
					5kHz～10kHz	*U=0.3%+3.6μA*		
					10kHz～30kHz	*U=0.6%+6μA*		
				(33～330)mA	(10～20)Hz	*U=0.27%+30μA*		
					(20～45)Hz	*U=0.14%+30μA*		
					45Hz～1kHz	*U=0.06%+30μA*		
					1kHz～5kHz	*U=0.15%+75μA*		
				(33～330)mA	5kHz～10kHz	*U=0.3%+0.15mA*		
					10kHz～30kHz	*U=0.6%+0.3mA*		
286	Electrical Measure-ment Instrument	ACI	C.S. for Digital AC Electrical Parameters JJF 1491-2014	(0.33～1.1)A	(10～45)Hz	*U=0.27%+0.15mA*		
					45Hz～1kHz	*U=0.075%+0.15mA*		
					1kHz～5kHz	*U=0.9%+0.15mA*		
					5kHz～10kHz	*U=3.8%+7.5mA*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
286	Electrical Measure-ment Instrument	ACI	C.S. for Digital AC Electrical Parameters JJF 1491-2014	(1.1～3.3)A	(10～45)Hz	*U=0.27%+ 0.10mA*		
					45Hz～1kHz	*U=0.075%+ 0.15mA*		
					1kHz～5kHz	*U=0.9%+ 0.15mA*		
					5kHz～ 10kHz	*U=3.8%+ 7.5mA*		
				(3.3～11)A	(10～45)Hz	*U=0.09%+ 3mA*		
					45Hz～1kHz	*U=0.15%+ 3mA*		
					1kHz～5kHz	*U=4.5%+3mA*		
				(11～20)A	45Hz～ 100Hz	*U=0.18%Ix+ 7.5mA*		
					100Hz～ 1kHz	*U=0.23%Ix+ 7.5mA*		
					1kHz～5kHz	*U=4.5%Ix+ 7.5mA*		
286	Electrical Measure-ment Instrument	ACW	C.S. for Digital AC Electrical Parameters JJF 1491-2014	(10～99)mW	(20～45)Hz	*U=0.25%+ 0.05mW*		
					45Hz～1kHz	*U=0.18%+ 0.05mW*		
					1kHz～5kHz	*U=0.5%+ 0.06mW*		
					5kHz～ 10kHz	*U=1.2%+ 0.10mW*		
286	Electrical Measure-ment Instrument	ACW	C.S. for Digital AC Electrical Parameters JJF 1491-2014	(99～ 990)mW	(20～45)Hz	*U=0.19%+ 0.05mW*		
					45Hz～1kHz	*U=0.16%+ 0.08mW*		
					1kHz～5kHz	*U=0.3%+ 0.10mW*		
					5kHz～ 10kHz	*U=0.7%+ 0.15mW*		
				(0.99～ 9.9)W	(20～45)Hz	*U=0.19%+ 0.5mW*		
					45Hz～1kHz	*U=0.15%+ 0.5mW*		
					1kHz～5kHz	*U=0.12%+ 0.5mW*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
286	Electrical Measure-ment Instrument	ACW	C.S. for Digital AC Electrical Parameters JJF 1491-2014	(0.99～9.9)W	5kHz～10kHz	*U=0.3%+0.8mW*		
				(9.9～99)W	(20～45)Hz	*U=0.14%+5mW*		
					45Hz～1kHz	*U=0.15%+5mW*		
					1kHz～5kHz	*U=0.15%+12mW*		
					5kHz～10kHz	*U=0.3%+60mW*		
				(99～330)W	(10～45)Hz	*U=0.27%+60mW*		
					45Hz～1kHz	*U=0.07%+60mW*		
					1kHz～5kHz	*U=0.9%+60mW*		
					5kHz～10kHz	*U=3.5%+60mW*		
286	Electrical Measure-ment Instrument	ACW	C.S. for Digital AC Electrical Parameters JJF 1491-2014	(330～990)W	(10～45)Hz	*U=0.27%+60mW*		
					45Hz～1kHz	*U=0.07%+60mW*		
					1kHz～5kHz	*U=0.9%+60mW*		
					5kHz～10kHz	*U=7.5%+60mW*		
				(0.99～3.3)kW	(10～45)Hz	*U=0.09%+1.2W*		
					45Hz～1kHz	*U=0.15%+0.12W*		
					1kHz～5kHz	*U=4.5%+0.6W*		
				(3.3～20)kW	45Hz～100Hz	*U=0.2%+3W*		
					100Hz～1kHz	*U=0.13%+3W*		
					1kHz～5kHz	*U=4.5%+3W*		
		Factor		cosΦ：0～1	(40Hz～10kHz)	*U=0.3%+0.0003*		
		Frequency		40Hz～10kHz		*Urel=0.06%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
302	High Insulation Resistance Meter	Resistance	V.R. of High Insulation Resistance Meters JJG 690-2003	0.1MΩ～10MΩ	0.1MΩ～10MΩ	*Urel=0.3%*		
				10MΩ～100MΩ		*Urel=0.6%*		
				100MΩ～1000MΩ		*Urel=1.2%*		
				1GΩ～10GΩ		*Urel=2.3%*		
				10GΩ～100GΩ		*Urel=5.8%*		
		voltage		(10~1000)V		*Urel=0.5%*		
				(≥1~5)kV		*Urel=0.8%*		
305	Cable Tester	Resistance(Continuity Resistance、O/S Risistance)	C.S.for Cable Testers JJF1457-2014	(0.01～100000)Ω		*Urel =0.8%～0.1%*		
		Insulation Resistance		0.1MΩ～10MΩ		*Urel =2.0%*		
				10MΩ～100MΩ		*Urel =2.1%*		
				100MΩ～1000MΩ		*Urel =2.3%*		
		DCV		(50～10000)V		*Urel =1.2% ～0.1%*		
		ACV		(50～10000)V	10Hz～20kHz	*Urel =1.5% ～0.1%*		
309	LCR Meter	Inductance	JJG(Electronic)05020-88 GR1658 RLC Meter JJG(Electronic)05014-88 HP4274A、HP4275A Multi -Frequency LCR Meter	1μH～500H (10Hz~1MHz)		*See In Table2 Below*		
		Capacitance		1pF～1mF (10Hz～13MHz)		*See In Table1 Below*		
		Resistance		1mΩ～1MΩ (DC～13MHz)		*See In Table3 Below*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
309	LCR Meter	Voltage	JJG(Electronic)05020-88 GR1658 RLC Meter JJG(Electronic)05014-88 HP4274A、HP4275A Multi -Frequency LCR Meter	1mV～5V (10Hz～20kHz)	1mV～5V (10Hz～20kHz)	*Urel=0.6% ~0.3%*		
				1mV～5V (20kHz～50kHz)		*Urel=0.2% ~1.0%*		
				1mV～5V (50kHz～13MHz)		*Urel=1.2% ~0.3%*		
		Frequency		10Hz～30MHz		*Urel=1×10-5*		
		Depreciation	JJF1095-2002 C.S. for CapAC Currenttor Dielectric Loss Meters	0~0.01 (100Hz~1MHz)		*U=0.0003*		
				>0.01~1 (100Hz~100kHz)		*U=0.003*		

	Table1						
		≧10Hz~100Hz		＞10kHz ~100kHz	＞100kHz ~1MHz	*＞1MHz ~5MHz*	＞5MHz ~10MHz	
309	1pF	\		.0018	.0018	*.003*	.01	
	10pF	\		.0005	.0005	*.0011*	.0015	
	100pF	\		.0005	.0005	*.0011*	.0015	
	1000pF	.001		.0008	.0008	*.0028*	.0068	
	>1nF ~10nF	.0006		.0015	\	\	\	
	>10nF ~100nF	.0008		.0012	\	\	\	
	>100nF ~1μF	.0015		.002	\	\	\	
	>1μF ~10μF	.0035		\	\	\	\	
	>10μF ~100μF	.005		\	\	\	\	

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
309	>100μF ~1mF	.005		\	\	\	\	
309	Table2							
		≧10Hz~ 100Hz		＞10kHz ~100kHz	＞100kHz ~1MHz	*＞1MHz ~5MHz*	＞ 5MHz ~10MHz	
	≧1μH ~10μH	\		.018	.018	\	\	
	>10μH ~100μH	\		.002	.002	\	\	
	>100μH ~1mH	.0005		.002	.002	\	\	
	>1mH ~10mH	.0005		.001	\	\	\	
	>10mH ~100mH	.0008		\	\	\	\	
	>100mH ~1H	.001		\	\	\	\	
	>1H ~10H	.001		\	\	\	\	
	>10H ~500H	.002		\	\	\	\	
	Table3							
		DC~ 100Hz		＞10kHz ~100kHz	＞100kHz ~1MHz	*＞1MHz ~5MHz*	＞ 5MHz ~10MHz	
	1mΩ	.016		\	\	\	\	
	10mΩ	.002		\	\	\	\	
	100mΩ	.001		.001	\	\	\	
	1Ω	.001		.001	\	\	\	
	>1Ω ~10Ω	.0005		.001	.001	*.003*	.008	
	>10Ω ~100Ω	.0003		.0012	.0012	*.0015*	.0063	
	>100Ω ~1kΩ	.0003		.0015	.0015	*.002*	.005	
	>1kΩ ~10kΩ	.0003		.001	.001	\	\	

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
309	>10kΩ ~100kΩ	.0003		.001	\	\	\	
	>100kΩ ~1MΩ	.0005		\	\	\	\	
317	Thermo- calibrator	Voltage	C.S.for Process Calibrators JJF 1472-2014	(-199～0) mV		*U=42 μV～4.1μV*		
				(0～+199) mV		*U=4.1 μV～42μV*		
		Resistance		(1～400) Ω		*U=0.5mΩ*		
318	Electronic Stopwatch/Timer	Timer	V.R. of Stopwatches JJG 237-2010	(0～99999)s		*U=0.06s～2s*		
		Daily Rate		±(0～99.99)s/d		*U=0.04s/d*		
319	Mechanic Stopwatch	Timer	V.R. of Stopwatches JJG 237-2010	(0.01～900)s		*U=0.06s*		
321	Universal Counters	Frequency	V.R. of Universal Counters JJG 349-2014 V.R.of Microwave Frequency Counters JJG 841-2012	10Hz～26.5GHz		*Urel=2×10-9*		
		Sensitivity		10Hz～12.4GHz		*U=0.3dB*		
				12.4GHz～26.5GHz		*U=0.7dB*		
323	Oscillos- cope Calibrator	Voltage	V.R.of Oscilloscope Calibrator JJG 278-2002	1mV～100mV		*Urel=5×10-4～1×10-4*		
				100mV～200V		*Urel=1×10-4*		
		Time		1ns～5s		*Urel=1×10-7*		
325	Digital OscilloSc- ope	Vertical defluxion factor	C.S.of Digital Strorage Oscilloscope JJF 1057-1998	1mV/div～5mV/div		*Urel=1.2%～0.3%*		
				5mV/div～10V/div		*Urel=0.3%*		
		Level defluxion factor		0.5ns/div～10s/div		*Urel=0.06%*		
		Bandwidth		50kHz～2GHz		*Urel=1.5%*		
		Rise Time		≥150ps		*Urel =10%*		
		Overshoot		0.1%~20%		*Urel=1.2%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
325	Digital OscilloSc-ope	Resistance	C.S.of Digital Strorage Oscilloscope JJF 1057-1998	800kΩ～1.2MΩ	800kΩ～1.2MΩ	*Urel=0.12%*		
				40Ω～90Ω		*Urel=0.12%*		
		Calibration signal Frequency		1mV～100V	10Hz~20kHz	*Urel=0.12%*		
		Calibration signal Level		10Hz～1MHz		*Urel= 2×10-5*		
333	Low Frequency Signal Generator	Frequency	V.R. of Low Frequency Signal Generator JJG 602-2014	10Hz～1MHz		*Urel= 2×10-5*		
		Voltage		1mV～100V	10Hz~20kHz	*Urel=0.12%*		
				1mV～100V	20kHz~50kHz	*Urel=0.2%*		
				1mV～100V	50kHz~100kHz	*Urel=0.8%*		
				1mV～100V	100kHz~300kHz	*Urel=5.2%*		
				(30～26)dBm	300kHz~1MHz	*U=0.25dB*		
				(26~-10)dBm		*U=0.22dB*		
				(-10~-130)dBm		*U=0.22dB~0.30dB*		
		Distortion		>0.03%~100%	20Hz～20kHz	*Urel=7.2%*		
					20kHz～110kHz	*Urel=14%*		
				0.005%~0.03%	20Hz～110kHz	*Urel=30%*		
334	Function Signal Generator	Frequency	V.R. of Function Generator JJG 840-1993	1Hz～500MHz		*Urel =3×10-10*		
		Level		1mV～100V	10Hz~20kHz	*Urel=0.12%*		
				1mV～100V	20kHz~50kHz	*Urel=0.2%*		
				1mV～100V	50kHz~100kHz	*Urel=0.8%*		
				1mV～100V	100kHz~300kHz	*Urel=5.2%*		
				(30～26)dBm	300kHz~500MHz	*U=0.25dB*		
				(26~-10)dBm		*U=0.22dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
334	Function Signal Generator	Level	V.R. of Function Generator JJG 840-1993	(-10~ -130)dBm	300kHz~500 MHz	*U=0.22dB~ 0.30dB*		
		Distortion		>0.03%~ 100%	20Hz～ 20kHz	*Urel=7.2%*		
					20kHz～ 110kHz	*Urel=14%*		
				0.005%~ 0.03%	20Hz～ 110kHz	*Urel=30%*		
		Harmonic Wave		(-80~0)dB	100kHz～ 500MHz	*U=0.70dB*		
		AM		Carrier Wave Frequency	Modulation Frequency	*(5~99)%*		
				100kHz~ 10MHz	10Hz~10kHz	*Urel=1.7%*		
				10MHz~ 26.5GHz	10Hz~50kHz	*Urel=1.2%*		
					50kHz~ 100kHz	*Urel=1.7%*		
334	Function Signal Generator	FM	V.R. of Function Generator JJG 840-1993	Carrier Wave Frequency	Modulation Frequency	*(0~500)kHz*		
				100kHz~ 10MHz	10Hz~10kHz	*Urel=1.2%*		
				10MHz~ 26.5GHz	10Hz~100kHz	*Urel=1.2%*		
					100kHz~ 200kHz	*Urel=3.5%*		
		PM		Carrier Wave Frequency	Modulation Frequency	*(0~400)rad*		
				100kHz~ 10MHz	50Hz~10kHz	*Urel=1.2%*		
				10MHz~ 26.5GHz	50Hz~100kHz	*Urel=1.2%*		
		Modulation Frequency		100Hz~100kHz		*Urel=2.2×10-5*		
		Modulation Distortion		0.001%~100 % (–100dB~0dB)		*Urel=6.9%*		
336	Filter	Bandwidth	V. R. of Octave-Band and One-Third-Octave Band Filters JJG 449-2014	20Hz～100kHz		*Urel =3.0×10-4*		
				100kHz～6GHz		*Urel =1.6×10-4*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
336	Filter	Fluctuation	V. R. of Octave-Band and One-Third-Octave Band Filters JJG 449-2014	10Hz～50kHz	10Hz～50kHz	*U=0.02dB*		
				50kHz～100kHz		*U =0.07dB*		
				100kHz～6GHz		*U=0.17dB*		
338	Power Meter	Power	436A V. R. of Powermeter JJG(Space) 22-1987	0.1mW/0.3mW/1mW/3mW/10mW/30mW/100mW		*Urel =0.3%*		
		Output Power		(-10～20)dBm 0.1MHz～18GHz		*U=0.1dB*		
339	Power Sensor	Power Calibration Factor	V. R. for lower power mount GJB/J 3598-1999	100kHz～18GHz		*Urel =4.0%*		
		Power		(10 ～ -70)dBm	100kHz～18GHz	*U=0.18dB*		
340	Signal Generator /Digital Signal Generator	Frequency	V.R of Signal Generators JJG 173-2003 Calibration Specification for Digital Signal Generator JJF 1174-2007	100kHz~26.5GHz		*Urel =3×10-10*		
		Level		100kHz~4.2GHz	(30 ~ 26)dBm	*U=0.25dB*		
					(26 ~ -10)dBm	*U=0.22dB*		
					(-10 ~ -130)dBm	*U=0.22dB~0.30dB*		
				4.2GHz~8GHz	(30 ~ 26)dBm	*U=0.31dB*		
					(26 ~ -10)dBm	*U=0.28dB*		
					(-10 ~ -120)dBm	*U=0.28dB~0.35dB*		
				8GHz~12.4GHz	(30 ~ 26)dBm	*U=0.33dB*		
					(26 ~ -10)dBm	*U=0.30dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
340	Signal Generator /Digital Signal Generator	Level	V.R of Signal Generators JJG 173-2003 Calibration Specification for Digital Signal Generator JJF 1174-2007	8GHz~ 12.4GHz	(-10 ~ -120)dBm	*U=0.30dB~ 0.37dB*		
				12.4GHz~ 18GHz	(30 ~ 26)dBm	*U=0.41dB*		
					(26 ~ -10)dBm	*U=0.40dB*		
					(-10 ~ -120)dBm	*U=0.40dB~ 0.47dB*		
				18GHz~ 26.5GHz	(30 ~ 26)dBm	*U=0.69dB*		
					(26 ~ -10)dBm	*U=0.68dB*		
					(-10 ~ -120)dBm	*U=0.68dB~ 0.75dB*		
340	Signal Generator /Digital Signal Generator	Harmonic Wave	V.R of Signal Generators JJG 173-2003 Calibration Specification for Digital Signal Generator JJF 1174-2007	(-80~0)dB	20Hz～ 10MHz	*U=0.83dB*		
					10MHz～ 3.6GHz	*U=0.70dB*		
					3.6GHz~ 8GHz	*U=1.3dB*		
					8GHz~22GHz	*U=1.8dB*		
		AM Depth		Carrier Wave Frequency	Modulation Frequency	*(5~99)%*		
				100kHz~ 10MHz	10Hz~10kHz	*Urel=1.7%*		
				10MHz~ 26.5GHz	10Hz~50kHz	*Urel=1.2%*		
					50kHz~ 100kHz	*Urel=1.7%*		
		FM Deviation		Carrier Wave Frequency	Modulation Frequency	*(0~500)kHz*		
				100kHz~ 10MHz	10Hz~10kHz	*Urel=1.2%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
340	Signal Generator /Digital Signal Generator	FM Deviation	V.R of Signal Generators JJG 173-2003 Calibration Specification for Digital Signal Generator JJF 1174-2007	10MHz~ 26.5GHz	10Hz~100kHz	*Urel=1.2%*		
					100kHz~ 200kHz	*Urel=3.5%*		
		PM Deviation		Carrier Wave Frequency	Modulation Frequency	*(0~400)rad*		
				100kHz~ 10MHz	50Hz~10kHz	*Urel=1.2%*		
				10MHz~ 26.5GHz	50Hz~100kHz	*Urel=1.2%*		
		Modulation Frequency		100Hz~100kHz		*Urel=2.2×10-5*		
		Modulation Distortion		0.001%~100 % (–100dB~0dB)		*Urel=6.9%*		
		Waveform Quality Factor Rho		(0~1.000)		*U=0.0012*		
		EVM		(0~25)%		*U=0.29%*		
340	Signal Generator /Digital Signal Generator	Amplitude Error	V.R of Signal Generators JJG 173-2003 Calibration Specification for Digital Signal Generator JJF 1174-2007	(0~25)%		*U=0.29%*		
		Phase Error		(0~15)°		*U=0.23°*		
		Frequency Error		±30 kHz		*U=2.3Hz*		
		ACPR		(0~80)dBc		*U=0.69dB*		
		GFSK Error		(0~5)%		*U=3.6kHz*		
		DEVM		(0~25)%		*U=0.03%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
341	Spectrum Analyzer/Vector Signal analyzer	REF Frequency	C. S. for Vector Signal Analyzers JJF 1128-2004 Calibration Specification for Spectrum Analyzer JJF 1396-2013	(1/2/5/10)MHz	(1/2/5/10)MHz	*Urel =3×10-9*		
		Frequency		100kHz~26.5GHz		*Urel =3×10-9*		
		Level		100kHz~4.2GHz	(30 ~ 26)dBm	*U=0.17dB*		
					(26 ~ -10)dBm	*U=0.15dB*		
					(-10 ~ -130)dBm	*U=0.15dB~ 0.23dB*		
				4.2GHz~8GHz	(30 ~ 26)dBm	*U=0.39dB*		
					(26 ~ -10)dBm	*U=0.36dB*		
					(-10 ~ -120)dBm	*U=0.36dB~ 0.43dB*		
				8GHz~12.4GHz	(30 ~ 26)dBm	*U=0.61dB*		
					(26 ~ -10)dBm	*U=0.60dB*		
					(-10 ~ -120)dBm	*U=0.60dB~ 0.67dB*		
		Level		12.4GHz~18GHz	(30 ~ 26)dBm	*U=0.63dB*		
					(26 ~ -10)dBm	*U=0.62dB*		
					(-10 ~ -120)dBm	*U=0.62dB~ 0.69dB*		
				18GHz~26.5GHz	(30 ~ 26)dBm	*U=1.4dB*		
					(26 ~ -10)dBm	*U=1.3dB*		
					(-10 ~ -120)dBm	*U=1.4dB*		
		Sweep Span		100Hz～20GHz		*Urel =0.1%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
341	Spectrum Analyzer/Vector Signal analyzer	RBW	C. S. for Vector Signal Analyzers JJF 1128-2004 Calibration Specification for Spectrum Analyzer JJF 1396-2013	1Hz～20MHz	1Hz～20MHz	*Urel =1%*		
		Resolution Bandwidth Switching		1Hz～20MHz		*U=0.02dB*		
		Calibration Signal Frequency		100kHz~4.2 GHz		*Urel =3×10-9*		
		Calibration signal Level		100kHz~4.2 GHz		*U=0.15dB*		
		Attenuation		0~80dB		*U=0.02dB*		
		Average Noise Level		9kHz~26.5GHz		*U=1.6dB*		
		Waveform Quality Factor Rho		(0~1.000)		*U=0.0012*		
		EVM		(0~25)%		*U=0.29%*		
		Amplitude Error		(0~25)%		*U=0.29%*		
		Phase Error		(0~15)°		*U=0.23°*		
		Frequency Error		±30 kHz		*U=2.3Hz*		
		ACPR		(0~80)dBc		*U=0.69dB*		
		GFSK Error		(0~5)%		*U=3.6kHz*		
		DEVM		(0~25)%		*U=0.03%*		
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	RF SIGNAL GENERATOR PART						

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Frequency	C.S for RF Communication Test Set JJF1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF1131-2005 C.S for CDMA Radio Communication Tester JJF1177-2007 C.S for WCDMA Radio Communication Tester JJF1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF1204-2008 C.S for Bluetooth Comprehensive Tester JJF1278-2011 C.S for WLAN Tester JJF1277-2011 C.S.for LTE Digital Radio Communication Tester JJF1443-2014	100kHz~26.5GHz		$Urel = 3\times10^{-10}$		
		Level		100kHz~4.2GHz	(30 ~ 26)dBm	$U=0.25dB$		
					(26 ~ -10)dBm	$U=0.22dB$		
					(-10 ~ -130)dBm	$U=0.22dB$ ~$0.30dB$		
				4.2GHz~8GHz	(30 ~ 26)dBm	$U=0.31dB$		
					(26 ~ -10)dBm	$U=0.28dB$		
					(-10 ~ -120)dBm	$U=0.28dB$ ~$0.35dB$		
				8GHz~12.4GHz	(30 ~ 26)dBm	$U=0.33dB$		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Level	C.S for RF Communication Test Set JJF1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF1131-2005 C.S for CDMA Radio Communication Tester JJF1177-2007 C.S for WCDMA Radio Communication Tester JJF1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF1204-2008 C.S for Bluetooth Comprehensive Tester JJF1278-2011 C.S for WLAN Tester JJF1277-2011 C.S.for LTE Digital Radio Communication Tester JJF1443-2014	8GHz~12.4GHz	(26 ~ -10)dBm	*U=0.30dB*		
					(-10 ~ -120)dBm	*U=0.30dB ~0.37dB*		
				12.4GHz~18GHz	(30 ~ 26)dBm	*U=0.41dB*		
					(26 ~ -10)dBm	*U=0.40dB*		
					(-10 ~ -120)dBm	*U=0.40dB ~0.47dB*		
				18GHz~26.5GHz	(30 ~ 26)dBm	*U=0.69dB*		
					(26 ~ -10)dBm	*U=0.68dB*		
					(-10 ~ -120)dBm	*U=0.68dB ~0.75dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	AM Depth	C.S for RF Communication Test Set JJF1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF1131-2005 C.S for CDMA Radio Communication Tester JJF1177-2007 C.S for WCDMA Radio Communication Tester JJF1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF1204-2008 C.S for Bluetooth Comprehensive Tester JJF1278-2011 C.S for WLAN Tester JJF1277-2011 C.S.for LTE Digital Radio Communication Tester JJF1443-2014	Carrier Wave Frequency	Modulation Frequency	*range (5~99)%*		
				100kHz~10 MHz	10Hz~10kHz	*Urel=1.7%*		
				10MHz~26.5 GHz	10Hz~50kHz	*Urel=1.2%*		
					50kHz~100k Hz	*Urel=1.7%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	FM Deviation	C.S for RF Communication Test Set JJF1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF1131-2005 C.S for CDMA Radio Communication Tester JJF1177-2007 C.S for WCDMA Radio Communication Tester JJF1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF1204-2008 C.S for Bluetooth Comprehensive Tester JJF1278-2011 C.S for WLAN Tester JJF1277-2011 C.S.for LTE Digital Radio Communication Tester JJF1443-2014	Carrier Wave Frequency	Modulation Frequency	*rang (0~500)kHz*		
				100kHz~10 MHz	10Hz~10kHz	*Urel=1.2%*		
				10MHz~ 26.5GHz	10Hz~100kHz	*Urel=1.2%*		
					100kHz~200 kHz	*Urel=3.5%*		
		PM Deviation		Carrier Wave Frequency	Modulation Frequency	*rang (0~400)rad*		
				100kHz~10 MHz	50Hz~10kHz	*Urel=1.2%*		
				10MHz ~26.5GHz	50Hz~100kHz	*Urel=1.2%*		
		Modulation Frequency		100Hz~100kHz		*Urel=2.2×10-5*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Modulation Distortion	C.S for RF Communication Test Set JJF1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF1131-2005 C.S for CDMA Radio Communication Tester JJF1177-2007 C.S for WCDMA Radio Communication Tester JJF1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF1204-2008 C.S for Bluetooth Comprehensive Tester JJF1278-2011 C.S for WLAN Tester JJF1277-2011 C.S.for LTE Digital Radio Communication Tester JJF1443-2014	0.001%~100 % (–100dB~0dB)	0.001%~100 % (–100dB~0dB)	*Urel=6.9%*		
		Waveform Quality Factor Rho		(0~1.000)		*U=0.0012*		
		EVM		(0~25)%		*U=0.29%*		
		Amplitude Error		(0~25)%		*U=0.29%*		
		Phase Error		(0~15)°		*U=0.23°*		
		Frequency Error		±30 kHz		*U=2.3Hz*		
		ACPR		(0~80)dBc		*U=0.69dB*		
		GFSK Error		(0~5)%		*U=3.6kHz*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	DEVM	C.S for RF Communication Test Set JJF1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF1131-2005 C.S for CDMA Radio Communication Tester JJF1177-2007 C.S for WCDMA Radio Communication Tester JJF1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF1204-2008 C.S for Bluetooth Comprehensive Tester JJF1278-2011 C.S for WLAN Tester JJF1277-2011 C.S.for LTE Digital Radio Communication Tester JJF1443-2014	(0~25)%	(0~25)%	*U=0.05%*		
		occupied bandwidth		（1.4~20）MHz		*U=15kHz*		
		IQ origin offset		（-20~-70）dB		*U=0.50dB*		
		SSB Phase Noise		Carrier Wave Frequency	Frequency offset	*U=0. 4dB*		
				100MHz～3GHz	10Hz～2MHz			
		Spectrum Purity		(-90～0) dBc	250kHz～5MHz	*Urel=1.4dB*		
					5MHz～2GHz	*Urel=1.2dB*		
					2GHz～3.6GHz	*Urel=1.9dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Spectrum Purity	C.S for RF Communication Test Set JJF1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF1131-2005 C.S for CDMA Radio Communication Tester JJF1177-2007 C.S for WCDMA Radio Communication Tester JJF1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF1204-2008 C.S for Bluetooth Comprehensive Tester JJF1278-2011 C.S for WLAN Tester JJF1277-2011 C.S.for LTE Digital Radio Communication Tester JJF1443-2014	(-90～0) dBc	3.6GHz～8GHz	*Urel=3.3dB*		
					8GHz～11GHz	*Urel=3.9dB*		
					11GHz～13GHz	*Urel=4.6dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	RF SIGNAL ANALYZER PART						
		Frequency Measurement	C.S for RF Communication Test Set JJF1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF1131-2005 C.S for CDMA Radio Communication Tester JJF1177-2007 C.S for WCDMA Radio Communication Tester JJF1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF1204-2008 C.S for Bluetooth Comprehensive Tester JJF1278-2011 C.S for WLAN Tester JJF1277-2011 C.S.for LTE Digital Radio Communication Tester JJF1443-2014	100kHz~26.5GHz		*Urel =3×10-9*		
		Level Measurement		100kHz ~4.2GHz	(30 ~ 26)dBm	*U=0.17dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Level Measurement	C.S for RF Communication Test Set JJF1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF1131-2005 C.S for CDMA Radio Communication Tester JJF1177-2007 C.S for WCDMA Radio Communication Tester JJF1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF1204-2008 C.S for Bluetooth Comprehensive Tester JJF1278-2011 C.S for WLAN Tester JJF1277-2011 C.S.for LTE Digital Radio Communication Tester JJF1443-2014	100kHz ~4.2GHz	(26 ~ -10)dBm	*U=0.15dB*		
					(-10 ~ -130)dBm	*U=0.15dB ~0.23dB*		
				4.2GHz ~8GHz	(30 ~ 26)dBm	*U=0.39dB*		
					(26 ~ -10)dBm	*U=0.36dB*		
					(-10 ~ -120)dBm	*U=0.36dB ~0.43dB*		
				8GHz ~12.4GHz	(30 ~ 26)dBm	*U=0.61dB*		
					(26 ~ -10)dBm	*U=0.60dB*		
					(-10 ~ -120)dBm	*U=0.60dB ~0.67dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Level Measurement	C.S for RF Communication Test Set JJF1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF1131-2005 C.S for CDMA Radio Communication Tester JJF1177-2007 C.S for WCDMA Radio Communication Tester JJF1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF1204-2008 C.S for Bluetooth Comprehensive Tester JJF1278-2011 C.S for WLAN Tester JJF1277-2011 C.S.for LTE Digital Radio Communication Tester JJF1443-2014	12.4GHz ~18GHz	(30 ~ 26)dBm	*U=0.63dB*		
					(26 ~ -10)dBm	*U=0.62dB*		
					(-10 ~ -120)dBm	*U=0.62dB ~0.69dB*		
				18GHz ~26.5GHz	(30 ~ 26)dBm	*U=1.4dB*		
					(26 ~ -10)dBm	*U=1.3dB*		
					(-10 ~ -120)dBm	*U=1.4dB*		
		AM Depth Measurement		Carrier Wave Frequency	Modulation Frequency	*rang (5~99)%*		
				100kHz ~10MHz	10Hz~10kHz	*Urel=1.7%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	AM Depth Measurement	C.S for RF Communication Test Set JJF1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF1131-2005 C.S for CDMA Radio Communication Tester JJF1177-2007 C.S for WCDMA Radio Communication Tester JJF1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF1204-2008 C.S for Bluetooth Comprehensive Tester JJF1278-2011 C.S for WLAN Tester JJF1277-2011 C.S.for LTE Digital Radio Communication Tester JJF1443-2014	10MHz~26.5 GHz	10Hz~50kHz	*Urel=1.2%*		
					50kHz~100kHz	*Urel=1.7%*		
		FM Deviation Measurement		Carrier Wave Frequency	Modulation Frequency	*rang(0~500)kHz*		
				100kHz ~10MHz	10Hz~10kHz	*Urel=1.2%*		
				10MHz~26.5 GHz	10Hz~100kHz	*Urel=1.2%*		
					100kHz ~200kHz	*Urel=3.5%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	PM Deviation Measurement	C.S for RF Communication Test Set JJF1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF1131-2005 C.S for CDMA Radio Communication Tester JJF1177-2007 C.S for WCDMA Radio Communication Tester JJF1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF1204-2008 C.S for Bluetooth Comprehensive Tester JJF1278-2011 C.S for WLAN Tester JJF1277-2011 C.S.for LTE Digital Radio Communication Tester JJF1443-2014	Carrier Wave Frequency	Modulation Frequency	*rang(0~400)rad*		
				100kHz ~10MHz	50Hz~10kHz	*Urel=1.2%*		
				10MHz ~26.5GHz	50Hz~100kHz	*Urel=1.2%*		
		Waveform Quality Factor Rho Measurement		(0~1.000)		*U=0.0012*		
		EVM Measurement		(0~25)%		*U=0.29%*		
		Amplitude Error Measurement		(0~25)%		*U=0.29%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	Phase Error Measurement	C.S for RF Communication Test Set JJF1065-2000 C.S for TDMA-GSM Radio Communication Tester JJF1131-2005 C.S for CDMA Radio Communication Tester JJF1177-2007 C.S for WCDMA Radio Communication Tester JJF1276-2011 C.S for TD-SCDMA Radio Communication Tester JJF1204-2008 C.S for Bluetooth Comprehensive Tester JJF1278-2011 C.S for WLAN Tester JJF1277-2011 C.S.for LTE Digital Radio Communication Tester JJF1443-2014	(0~15)°	(0~15)°	*U=0.23°*		
		Frequency Error Measurement		±30 kHz		*U=2.3Hz*		
		ACPR Measurement		(0~80)dBc		*U=0.69dB*		
		GFSK Error Measurement		(0~5)%		*U=3.6kHz*		
		DEVM Measurement		(0~25)%		*U=0.03%*		
		occupied bandwidth		（1.4~20）MHz		*U=14kHz*		
		IQ origin offset		（-20~-70）dB		*U=0.55dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	RF Commun-ication Test Set/Wire-less Commu-nica tion Test set/Blu-etooth Compre-hensive Tester/W-LAN Tester	AUDIO SIGNAL GENERATOR PART						
		Output Frequency	JJF1395-2013 C.S of Audio Analyzer	10Hz～300kHz		*Urel= 2×10-5*		
		Output Voltage		1mV～100V	10Hz~20kHz	*Urel=0.12%*		
				1mV～100V	20kHz~50kHz	*Urel=0.2%*		
				1mV～100V	50kHz~100kHz	*Urel=0.8%*		
				1mV～100V	100kHz ~300kHz	*Urel=5.2%*		
		Output Signal Distortion		>0.03%~100%	20Hz～20kHz	*Urel=7.2%*		
					20kHz～110kHz	*Urel=14%*		
				0.005%~0.03%	20Hz～110kHz	*Urel=30%*		
		AUDIO SIGNAL ANALYZER PART						
		Frequency Measurement	JJF1395-2013 C.S of Audio Analyzer	10Hz～300kHz		*Urel= 3.4×10-6*		
		AC Voltage Measurement		1mV~330V	See in Table1	/		
		Distortion Measurement		(0.001～30)%	See in Table2	/		
	Table1:Voltage Measurement CMC							
	Voltage	Frequency						
		10Hz~45Hz	10kHz~20kHz	20kHz~50kHz	50kHz~100kHz	*100kHz~500kHz*		
	1mV~32.999mV	0.093%+7μV	0.027%+7μV	0.11%+7μV	0.40%+14μV	*0.92%+58μV*		
	33mV~329.999mV	0.037%+9μV	0.023%+9μV	0.043%+9μV	0.093%+37μV	*0.23%+81μV*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
342	0.33V~ 3.29999V	0.037%+58μV	0.026%+69μV	0.037%+58μV	0.082%+144μV	*0.27%+0.7mV*		
	3.3V~ 32.999V	0.037%+0.8mV	0.031%+0.7mV	0.043%+0.7mV	0.10%+1.8mV	/		
	33V~330V	0.026%+2.3mV	0.032%+6.9mV	0.037%+6.9mV	0.23%+57.7mV	/		
342	Table2:Distortion Measurement CMC							
	Distortion	Frequency						
		20Hz，200Hz	400Hz，1kHz	10kHz		*20kHz*	50kHz	
	30%～0.1%	2.3%±0.00034%	1.2%±0.00034%	2.3%±0.00034%		*2.3%±0.00034%*	3.5%±0.00034%	
	0.1%～0.03%	2.3%±0.00034%	1.2%±0.00034%	2.3%±0.00034%		*2.3%±0.00034%*	/	
	0.03%～0.01%	5.8%±0.00034%	5.8%±0.00034%	5.8%±0.00034%		/	/	
	0.01%～0.003%	12%±0.00034%	12%±0.00034%	/		/	/	
345	Attenuator	Attenuator	V. R. of Coaxial Attenuator JJG 387-2005	100kHz~4.2GHz	(0~10)dB	*U=0.17dB*		
					(10 ~120)dB	*U=0.17dB~0.24dB*		
				4.2GHz~8GHz	(0~10)dB	*U=0.18dB*		
					(10 ~120)dB	*U=0.18dB~0.25dB*		
				8GHz~12.4GHz	(0~10)dB	*U=0.18dB*		
					(10 ~120)dB	*U=0.18dB~0.25dB*		
				12.4GHz~18GHz	(0~10)dB	*U=0.20dB*		
					(10 ~120)dB	*U=0.20dB~0.27dB*		
				18GHz~26.5GHz	(0~10)dB	*U=0.24dB*		
					(10 ~120)dB	*U=0.24dB~0.31dB*		
347	Network Analyzer	Frequncy	C.S.for Vector Network Analyzers JJF1459-2014	100kHz~26.5GHz		*Urel =3×10-10*		
		Level		100kHz~4.2GHz	(30 ~ 26)dBm	*U=0.25dB*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
347	Network Analyzer	Level	C.S.for Vector Network Analyzers JJF1459-2014	100kHz~ 4.2GHz	(26 ~ -10)dBm	*U=0.22dB*		
					(-10 ~ -130)dBm	*U=0.22dB~ 0.30dB*		
				4.2GHz~ 8GHz	(30 ~ 26)dBm	*U=0.31dB*		
					(26 ~ -10)dBm	*U=0.28dB*		
					(-10 ~ -120)dBm	*U=0.28dB~ 0.35dB*		
				8GHz~ 12.4GHz	(30 ~ 26)dBm	*U=0.33dB*		
					(26 ~ -10)dBm	*U=0.30dB*		
					(-10 ~ -120)dBm	*U=0.30dB~ 0.37dB*		
				12.4GHz~ 18GHz	(30 ~ 26)dBm	*U=0.41dB*		
					(26 ~ -10)dBm	*U=0.40dB*		
					(-10 ~ -120)dBm	*U=0.40dB~ 0.47dB*		
				18GHz~ 26.5GHz	(30 ~ 26)dBm	*U=0.69dB*		
					(26 ~ -10)dBm	*U=0.68dB*		
					(-10 ~ -120)dBm	*U=0.68dB ~0.75dB*		
		Harmonic Wave		(-80~0)dB	20Hz～ 10MHz	*U=0.83dB*		
					10MHz～ 3.6GHz	*U=0.70dB*		
					3.6GHz~ 8GHz	*U=1.3dB*		
					8GHz~22GHz	*U=1.8dB*		
		Attenuation		(0~100)dB		*U=（0.1~1.5）dB*		
		SWR		1.01~2.00		*U=0.05*		
458	Disintegration Analyzers	Amplitude	C.S. for Disintegration Analyzers JJF1449-2014	55mm±2mm		*U=0.4mm*		
		Frequency		(30～32)rpm		*Urel=0.6%*		
		Temperature		(37±1)℃		*U=0.3 ℃*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range		Uncertainty (k=2)	Limitation	Note
458	Disintegration Analyzers	Time	C.S. for Disintegration Analyzers JJF1449-2014	(350~1000)s	(350~1000)s	*Urel =13%*		
459	Liquid-borne Particle Counters	Particle size	V.R. of Liquid-borne Particle Counters JJG1061-2010	D50≤15 μm		*Urel=4%*	Except for particles in oil	
				15 μm＜D50≤30 μm		*Urel=3%*		
				D50＞70 μm		*Urel=3%*		
		Particle Count		（100~3000）pc/mL		*Urel =4.8%*		
460	GNSS Signal Simulators	CW Frequency	C.S of GNSS Signal Simulators JJF1471-2014	10Hz～3.6GHz		*Urel =3×10-10*		
		Power		100kHz ~4.2GHz	(-10 ~ -130)dBm	*U=0.22dB~ 0.30dB*		
					(-170 ~ -130)dBm	*U=0.35dB*		
		Spectrum Purity		(-60～ -20)dBc	（1～3.6） GHz	*U=1.8dB*		
		SSB Phase Noise		Carrier Wave Frequency	Frequency offset	*U=0. 6dB*		
				100MHz～ 3.6GHz	10Hz～ 2MHz			
		EVM		(0~25)%		*U=0.29%*		
		Speed Rang		（0～36000）m/s		*U=0.2m/s*		
		Acceleration Range		（0～2000）m/s2		*U=0.2m/s2*		
		Jerk Rang		（0～2000）m/s3		*U=0.2m/s3*		
		Pseudo Range		（0.01～0.1）m		*U=0.06m*		
		Pseudorange Rate		（0.01～0.1）m/s		*U=0.006m/s*		
461	Television Video Signal Generator	Intensity Level	C.S for Television Video Signal Generator JJF 1235-2010	(1～1000)mV		*Urel=1.3%*		
		Chroma Level		(1～1000)mV		*Urel=1.2%*		
		Time		1 μs～99ms		*Urel=0.40%*		

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№	Instrument	Parameter	Title, Code of Calibration Method	Range	Uncertainty (k=2)	Limitation	Note
461	Television Video Signal Generator	Phase	C.S for Television Video Signal Generator JJF 1235-2010	（0～360)°	*U=0.6°*		
462	Tempera-ture Transmitter	Temperature	C.S.for Temperature Transmitter JJF 1183-2007	(0～500)℃	*U=(0.4～0.5) ℃*	Without sensor	
				(-30~+100)℃	*U=(0.3~0.2) ℃*	With sensor	
				(100~300)℃	*U=(0.2~0.3) ℃*	With sensor	
463	Anemome-ter	Air Velocity	Hot Bulb Anemometer JJG（JS）0001-1992	(0.2～30)m/s	*Urel=2.2%*		
			V.R.of Portable Induction Anemometer				
			V. R. of Contact Anemorumbometer JJG 613-1989				
			V. R. of Portable 3 – Cup Anemometer JJG 431-2014				

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