

**CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT
APPENDIX OF LABORATORY ACCREDITATION CERTIFICATE**

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APPENDIX1-1 LIST OF ACCREDITED TESTING SCOPE

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
1	Telephone Security alarm		All Parameters	0419 14	YD/T 514-1998 Technical requirements and test methods for interface between non-voice subscriber terminal and public telephone network		
2	Products of Generic Cabling		All Parameters	0419 07	YD/T 926.1-1997 《Telecommunication generic cabling System for building Part 1:Generic Specification 》 YD/T 926.2-1997 《Telecommunication generic cabling System for building Part 2:Technic Requirement of Cable, Optical fiber cable for Generic Cabling 》 ISO/IEC 11801:1995 《Information technology-Generic cabling for customer premises》		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
3	PDH /SDH equipment		All Parameters	0419 11	<p>GB/T16814-1997 《Methods of measurement for synchronous digital hierarchy (SDH) optical fiber cable line systems》</p> <p>GB/T15941-1995 《Requirements for synchronous digital hierarchy(SDH) optical fiber cable line systems of national public telecommunication network》</p> <p>GB/T 13997-1999 《Technical requirement for 2048kbit/s、8448kbit/s、343368kbit/s、139264kbit/s Optical line terminals》</p> <p>YDN 037-1997 《Requirement for function、ECC and Q₃ interface protocol stack of Synchronous Digital Hierarchy (SDH) management network》</p> <p>YD/T 900-1997 《Technical Require ment for SDH equipment-clock》</p> <p>YD/T 730-94 《Methods of measur ement for Optical line terminals》</p> <p>YD/T 1167-2001 《Technical Requirements for STM-64 Add-Drop Multiplexer》</p> <p>YD/T1014-1999 《Technique criterion for STM-64 optical line terminal equipment》</p> <p>YD/T 1166-2001 《Technical Requirements for STM-64 Regenerative Repeater》</p>		

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3	PDH /SDH equipment	1	appearance, assembly, information	0419 11	YD/T 655-94 The gradation of 34368kbit/s optical line terminals			
		2	Ethernet interface		IEEE802.3 Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications			
		3	Security management		YD/T 1289.2-2003 Synchronous digital hierarchy (SDH) transport network management system technical specification part 2:Element management system (EMS)			
		4	legality check for configuration data					
		5	Equipment protection and switching management					
		6	General functions of network management					
		7	Alarm management					
		8	Performance management					
		9	Configuration management					
		10	ring switching function			YD/T 1266-2003 Test methods of protection schemes for SDH rings		
		11	Ring switching function			YD/T 1078-2000 SDH transmission network technique requirements— interworking of network protection architecture		
		12	Jitter performance		YD/T 768-95 Technical requirements of synchronous digital hierarchy optical fiber cable line systems			

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3	PDH /SDH equipment	13	Electric safety	0419 11	YD/T 1098-2001 Test specification for low-end router			
		14	1000M Ethernet optical interface		YD/T 1141-2001 Testing specification for gigabit Ethernet LAN switch			
		15	Switch function of Ethernet Layer 2					
		16	Mapping function of Ethernet service					
		17	VLAN function					
		18	Performance of Ethernet service			YD/T 1238-2002 Technical requirements for SDH multi-service transport platform		
		19	Function of Ethernet interface					
		20	Error performance in 16 hours					
4	Synchronization equipment in digital synchronization network		All Parameters	0419 11	YD/T 1011-1999 <Technology requirement and test method of stand alone synchronization network> YD/T 1012-1999 <Node clock set of digital synchronization network and timing feature>			

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4	Synchronization equipment in digital synchronization network	1	Frequency Accuracy	0419 11	YD/T 1011-1999 《Technology requirement and test method of stand alone synchronization network》 YD/T 1012-1999 《Node clock set of digital synchronization network and timing feature》 YD/T 900-1997 《Technical specification for synchronization network based on SDH transport network》 YD/T 1267-2003 《Technical requirement for SDH equipment -clock》 YD/T 1355—2005 《Technical requirements and test method of Mini-BITS equipment》		
		2	Noise Generation				
		3	Phase Discontinuity				
		4	Pull-in, Hold-in, and Pull-out Ranges				
		5	Noise Tolerance				
		6	Noise Transfer				
		7	Transient Response and Hold-over Performance				
		8	Interfaces				
		9	Timing Functions on SDH Transmission System				
		10	SSM Functions on SDH Transmission Equipment				

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5	Optical Fiber Parameters		All Parameters	0430 08	GB9771.1~9771.5-2000 《Single Mode Optical Fiber Serial for Telecommunication》 GB12357.1-2004 Multimode Optical Fibers for Telecommunication---Part 1:Sectional Specification for Category A1 Multimode Fibers GB12357.2-2004 Multimode Optical Fibers for Telecommunication---Part 2:Sectional Specification for Category A2 Multimode Fibers GB12357.3-2004 Multimode Optical Fibers for Telecommunication---Part 3:Sectional Specification for Category A3 Multimode Fibers GB12357.4-2004 Multimode Optical Fibers for Telecommunication---Part 4:Sectional Specification for Category A4 Multimode Fibers		
6	Optical Distribute Frame		All Parameters	0419 14	YD/T778-2006 《Optical Distribute Frame》		
7	Optical fiber connector		All Items	0419 14	YD/T 1272.4-2008 Optical fiber connector Part4:Type FC connector family		

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7	Optical fiber connector		All Items	0419 14	<p>GB/T12507.1-2000 Connectors for optical fibres and cables Part1:Generic specification</p> <p>YD/T1272.1-2003 Optical fiber connector Parttt 1:type LC</p> <p>YD/T 1272.2-2005 Optical fiber connector Part II : Type MT-RJ Connector Family YD/T1272.3-2005</p> <p>Optical fiber connector Part3: type SC</p> <p>YD/T1200-2002 Technical condition of the type of MU single-mode optical fiber connector</p> <p>YD/T895-1997 Requirements specification of single -mode optical fiber and cable connector : Type SC/PC</p> <p>YD/T987-1998 Requirements specification of single -mode optical fiber and cable connector :Type ST/PC</p>		
8	Telephone SPC		All Parameters	0419 11	<p>YD/T1128-2001 《the supplementary specification to SPC》</p> <p>YD/T751-95 《The testing methods for SPC of Public Telephone Network》</p> <p>YDN065-1997 《General technical requirements for the telephone exchange equipment of MPT》</p> <p>YDN108-1998 《The conformance testing technical specification for V5.2 interface》 YD/T1362-2005 《The testing methods for SPC》</p>		

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8	Telephone SPC	1	The Requirements for sending Calling Party Number	0419 11	YD/T 1157—2001 《The Requirements for sending Calling Party Number between networks》 YD/T 1157.1—2002 《The Requirements for sending Calling Party Number between networks (Supplementary 1)》 YD/T 1157.2—2003 《The Requirements for sending Calling Party Number between networks (Supplementary 2)》 YD/T 1157.3—2005 《The Requirements for sending Calling Party Number between networks (Supplementary 3)》		
		2	Charging Function		YD/T 1176-2002 《The Technical Requirement for Charge in Public Telecommunication network》		
9	PABXs		All Parameters	0419 11	YD 344-90 《Requirements for PABXs access to Public telephone switching network》 YD/T 729-94-94 《The testing methods for PABXs》 YD/T751-95 《The testing methods for SPC of Public Telephone Network》 YDN065-1997 《General technical requirements for the telephone exchange equipment of MPT》		
		1	Calling Party Number create, carry, audit and trace		0419 11	YD/T 1277.1-2003 《Technical specification and testing method of caller identity delivery based on PSTN part 1:technical specification》	

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10	Communication Network Access Equipment		All Parameters	0419 11	<p>GB15941-95 11.2 Requirements for synchronous digital hierarchy optical fiber cable line system of national public telecommunication network GB/T 11324-95 6.2 Performance and Test methods of fourth order digital multiplex equipment Operating at 139264kbit/s and using positive justification GB/T 9405-95 5.2.1; Performance and Test methods of third order digital multiplex equipment Operating at 34368kbit/s and using positive justification GB/T 7254-95 6.6.2 Performance and Test methods of second order digital multiplex equipment Operating at 8448kbit/s and using positive justification GB/T 16814-97 Methods of measurement for synchronous digital hierarchy (SDH) optical fiber cable line systems YDN 108 The conformance testing technical specification for V5.2 interface GB/T 7611-2001 Characteristics of the electrical interface at hierarchical bit rate for digital network YD/T 751-95 6.2. The testing methods for SPC of Public Telephone Network I.430-8. User-network interfaces-Layer 1 Recommendations (BRA) I.431-5. User-network interfaces Layer 1 Recommendations (PRA) ITU-TG.703, 7.3.4. Physical electrical characteristics of hierarchical digital interface YDN 056-1997</p>		

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10	Communication Network Access Equipment		All Parameters	0419 11	Access Network Technical Specifications High-speed Digital Subscriber line System TMC-TM-005 The testing technical specification for user Access enviroment		
		1	V5.1 Protocol (all tests)	0419 11	YD/T1308.1-2005 《technical requirement of V5 interface part1: V5.1 interface》		
		2	V5.2 Protocol (all tests)		YD/T1308.2-2005 《technical requirement of V5 interface part2: V5.2 interface》		
11	Communication Network Wireless Access Equipment		All Parameters	0419 11	YDN 061-97 Technical System of Access Network(regulated temporarily) YD/T 1009-99 Technical Performances and test methods of FDMA wireless access systems for 450MHz GB/T7611-2001 Characteristics of the electrical interface at hierarchical bit rate for digital network YD/T 751-95. The testing methods for SPC of Public Telephone Network YDN 024 Technical Specification of Access Network-fixed Wireless Access Network YD/T 1082-2000 Technical requirements for the protection against overvoltages and overcurrents and The suitability in basic enviroment on access network equipment RCR STD-28 (PERSONAL HANDY PHONE SYSTEM ARIB STANDARD) YDN 108 The conformance testing technical specification for V5.2 interface I.430-1995. User-network interfaces-Layer1 Recommendations(BRA)		

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12	ISDN private switching equipment		All Parameters	0419 11	<p>GB/T 17904.1-1999 《ISDN user-network interface data link layer specification and conformance testing method Part 1:User-network interface data link layer specification》</p> <p>GB/T 17904.2-1999 《ISDN user-network interface data link layer specification and conformance testing method Part 2:Data link layer protocol conformance testing method》</p> <p>GB/T 17154.1-1997 《ISDN user-network interface layer 3 specification and testing method for basic call control Part 1:Layer 3 specification for basic call control》</p> <p>GB/T 17154.2-1997 《ISDN user-network interface layer 3 specification and testing method for basic call control Part 2:Testing method for Layer 3 basic call control protocol》</p> <p>YDN 034.1-1997 《ISDN user-network interface specification Part 1: Physical layer specification》</p> <p>YDN 034.2-1997 《ISDN user-network interface specification Part 2: data link layer specification》</p> <p>YDN 034.3-1997 《ISDN user-network interface specification Part 3: layer 3 specification for basic call control》</p>		

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12	ISDN private switching equipment		All Parameters	0419 11	YDN 034.4-1997 《ISDN user-network interface specification Part 4: supplementary service specification》 YD/T 941-1997 《ISDN user-network interface supplementary service conformance testing specification》 YDN 065-1997 《the Ministry of Posts and Telecommunications telephone switching equipment specification》 YD/T 928-1997 《Technical specification for ISDN PABXs》 YD/T 950-1998 《Technical requirements and test methods for protection against overvoltages and overcurrents on telecommunication switching equipment》 ITU-T G.961-93 《Digital transmission system on metallic local lines for ISDN basic rate access》		
		1	building, sending, Authentication and trace calling party number		YD/T 1157.2-2003 《The requirements for sending calling party number between networks(Supplementary II)》 YDN 034.4-1997 《ISDN user-network interface specification part 4:supplementary services specification》		
		2	communications security	0419 11	GB/T 17904-1999 《ISDN user-network interface data link layer specification and conformance testing method》 GB/T 17154-1997 《ISDN user-network interface layer 3 specification and testing method for basic call control procedure》		

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12	ISDN private switching equipment	3	package and assemble	0419 11	YD/T 655-94 《34368kbit/s optical line terminals quality classify》			
		4	BRI interface electric characteristics (TE side)		YDN 034.1-1997 《ISDN user-network interface specification part 1:physical layer specification》			
		5	BRI interface power feeding (TE side)					
		6	BRI interface electric characteristics (NT side)					
		7	BRI interface power feeding(NT side)					
		8	PRI interface electric characteristics					
		9	U interface(LT side)			YD/T 1172-2001《Access Network Technical Specification-ISDN Basic Rate Access Interface (U Interface)Specification for Remote Equipment》 YD/T 1098-2001《Test Specification for Low-End Router》		
		10	BRI data link layer protocol conformance test(TE side)			GB/T 17904-1999《ISDN user-network interface data link layer specification and conformance testing method》		
		11	BRI network layer protocol conformance test (TE side)			GB/T 17154-1997《ISDN user-network interface layer 3 specification and testing method for basic call control procedure》		
		12	PRI data link layer protocol conformance test(TE side)			GB/T 17904-1999《ISDN user-network interface data link layer specification and conformance testing method》		

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		№	Name				
12	ISDN private switching equipment	13	PRI network layer protocol conformance test (TE side)	0419 11	GB/T 17154-1997 《ISDN user-network interface layer 3 specification and testing method for basic call control procedure》 YD/T 928-1997 《Technical specification for ISDN PABXs 》		
		14	switching performance				
		15	operation performance				
		16	communication performance				
		17	synchronization performance				
		18	service quality				
		19	charge performance				
		20	maintenance management				
		21	power supply and grounding				
		22	environment test				
13	Charging equipment		All Parameters	0419 11	YD/T 1004-1999 《Technical specifications and test methods of multi-port telephone accounting system》 YDN 006-1996 《Technical Requirement of Telephone Accounting Management System》 YDN 046-1997 《Technical Requirement of centralized charge and centralized Management System 》		

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14	Optical wavelength division multiplexing (WDM)system		All Parameters	0419 11	GB/T 15941-1995 Requirements for synchronous digital hierarchy (SDH) optical fiber cable line systems of national public telecommunication network YD/T 1205-2002 Technical requirements for metropolitan optical transport network WDM ring YD/T 1274-2003 Technical requirements of optical wavelength division multiplexing (WDM)system-160×10Gb/s、80×10Gb/s 部分 YDN 120-1999 Technical requirements of optical wavelength division multiplexing (WDM)system YD/T 1060-2000 Technical requirements of optical wavelength division multiplexing (WDM)system 32×2.5Gbit/s part YD/T 1143-2001 Technical requirements of optical wavelength division multiplexing (WDM)system --16×10Gb/s、32×10Gb/s parts YD/T1326-2004 Technical Requirements of Coarse Wavelength Division Multiplexing System YD/T1159-2001 Test Methods of Optical wavelength division multiplexing (WDM) system TZ-015-94 Optical synchronous transmission network technology system (emporary) ITU-TG.694.2 Spectral grids for WDM applications: CWDM wavelength grid		

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		№	Name				
14	Optical wavelength division multiplexing (WDM)system	1	APR and ALS function	0419 11	YD/T1259-2001 Technical specification for optical safe procedure for Wavelength Division Multiplexing (WDM)system		
		2	Amplifier Safety requirement				
		3	Error performance in 24 hours normal temperature		GB/T 16814-1997 Methods of measurement for synchronous digital hierarchy (SDH) optical fiber cable line systems		
		4	Error performance In high temperature		GB/T 2423.2-2001 The basic rule of environmental test for electronic and electrician equipment –test B :high temperature test		
		5	appearance, assembly, information		YD/T 655-94 The gradation of 34368kbit/s optical line terminals		
		6	Q3 Protocol		YDN114-1999 Synchronous digital hierarchy (SDH) network element management function validate and Protocol test		
		7	ECC Protocol		YDN 037-1997 Synchronous digital hierarchy (SDH) management function ECC and Q3 interface Protocol		
		8	power supply voltage sufferance range		YD/T 1167-2001 STM-64 Technical Requirements for STM-64 Add-Drop Multiplexer		
		9	Equipment protection and switching management		YD/T1339—2005 Test methods of metropolitan optical transport network WDM ring		
		10	1000M Ethernet optical interface		YD/T 1141-2001 Testing specification for gigabit Ethernet LAN switch		

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14	Optical wavelength division multiplexing (WDM) system	11	Electric safety	0419 11	YD/T 1098-2001 Test specification for low-end router		
		12	Optical Multiplexer/de multiplexer performance		YD/T1327-2004 Technical requirements and testing methods of Coarse Wavelength Division Multiplexer (CWDM)/Demultiplexer		
		13	Synchronization interface		YD/T1267-2003 Technical specification for synchronization network based on SDH transport network		
		14	SDH optical interface performance		GB/T 20185-2005 Synchronous digital hierarchy (SDH) Equipment and system optical interface technical specification		
15	Narrowband passive optical network (PON)		All Parameters	0419 11	YD/T1077-2000 《Access Network Technical Specification--Narrowband Passive Optical Network (PON)》 YD/T964-1998 《Requirement & test method of 1310nm/1550nm wavelength division multiplexer》		
		1	Calling number produce, transfer, check and trace	0419 11	YD/T 1380.1-2005 Technical requirements of V5 interface part1:V5.1 interface		
		2	Safety performance of supply	0419 11	YD/T 965-1998 The Safety requirement and test method for telecommunication terminal equipment		

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15	Narrowband passive optical network (PON)	3	supply performance of guard thunder and lightning of	0419 11	YD/T 993-2006 The technical requirements and test methods of overvoltages and overcurrents resistibility for telecommunication terminal equipment		
		4	Distance test	0419 11	YD/T 1250-2003 Test method for access network-passive optical network based on ATM		
16	800MHz CDMA Mobile Communication Network Equipment:Switching Sub-System		All Parameters	0419 11	YD/T 1026-2001 Technical requirement for the interface between mobile service switching center and base station subsystem in 800MHz CDMA digital cellular mobile communication network YD/T 1027-1999 800MHz CDMA digital cellular mobile communication network interface test specification : between MSC and base station sub-system YD/T 1031-1999 technical specification of 800MHz CDMA digital cellular mobile telecommunication network mobile application part YD/T 1052-2000 800MHz CDMA digital cellular mobile communication network mobile application part test specifications YD/T 1048-2000 800MHz CDMA digits cellular mobile communication network equipment technical specification :switching sub-system YD/T 1049-2000 800MHz CDMA Mobile Communication Network Equipment test specification: switching sub-system GB/T 7611-2001 Characteristics of the electrical interface at hierarchical bit rate for digital network		

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17	No.7 Signalling equipment		All parameters	0419 11	<p>YD/T 1125-2001 National No.7 Signaling System Technical Specification-2Mbit/s High Speed Link</p> <p>YD/T 1195-2002 Test Specification for No.7 Signaling System-The 2Mbit/s High Speed Signaling Link GF001-9001 National telephone network NO.7 signaling system technical specification</p> <p>WBH45-94 National telephone network NO.7 signaling system test specification</p> <p>YDN 038-1997 National NO.7 signaling system technical specification-ISDN user part(ISUP)</p> <p>ITU-T Q.781-97 MTP level 2 test specification</p> <p>ITU-T Q.782-97 MTP level 3 test specification ITU-T Q.783-97 TUP test specification ITU-T Q.784-97 ISUP basic call test specification</p> <p>YD/T 1125-2001 National No.7 Signaling System Technical Specification-2Mbit/s High Speed Link</p> <p>YD/T 1195-2002 Test Specification for No.7 Signaling System-The 2Mbit/s High Speed Signaling Link</p>		
		1	SCCP	0419 11	<p>YD/T 1126-2001 No.7 signalling system test specification – Signalling connection control part GF010-95 Technical specification of national No.7 signalling - Signalling connection control part</p>		

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17	No.7 Signalling equipment	2	TCAP	0419 11	YDN 039-1997 Test Specification for national No.7 signalling Transaction Capability Application Part (TCAP) GF011-95 Technical specification of national No.7 signalling Transaction Capability Application Part (TCAP)		
		3	N-ISDN interworking with PSTN		YDN 040-1997 Test Specification for N-ISDN interworking with PSTN		
18	Intelligent Network Equipment	1	SCP function test	0419 11	YD/T 1234-2002 The technical specification of 900/1800MHz TDMA digital cellular mobile telecommunications system equipment Service Control Point (SCP)(CAMEL 2) YD/T 1305-2004 900/1800MHz TDMA Digital cellular mobile telecommunication network technical specification of network management interface for CAMEL2 network YD/T 1333-2004 Technical requirements of Service Control Point (SCP)equipment for Wireless Intelligent Network (WIN) Phase2 in 800MHz CDMA digital cellular mobile telecommunication network		
		2	CAP		0419 11	YD/T 1217-2002 900/1800MHz TDMA digital cellular mobile telecommunication network test specification of CAMEL Application Part (CAP) (CAMEL2)(SSP part) YD/T 1218-2002 900/1800MHz TDMA digital cellular mobile telecommunication network test method of CAMEL Application Part (CAP)(CAMEL2):SCP part YD/T 1037-2000 800MHz CDMA digital cellular mobile telecommunication network Wireless Intelligent Network (WIN)phase 1:Interface test method	

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18	Intelligent Network Equipment	3	WIN	0419 11	<p>YD/T 1306-2004 800 MHz CDMA digital cellular mobile communication network Wireless Intelligent Network(WIN)phase 1:test method for prepaid charging service</p> <p>YD/T 1307-2004 800MHz CDMA digital cellular mobile telecommunication network Wireless Intelligent Network (WIN) phase 1 : Interface test method</p> <p>YD/T 1336-2005 800MHz CDMA digital cellular mobile telecommunication network Wireless Intelligent Network (WIN)phase 2:interface test method</p> <p>YD/T 1207-2002 800MHz CDMA digital cellular mobile communication network Wireless Intelligence Network (WIN) phase 1:technical specification of prepaid charging service</p> <p>YD/T 1208-2002 800MHz CDMA digital cellular mobile communication network Wireless Intelligence Network (WIN)phase 1:Technical specification of interface</p> <p>YD/T 1335-2005 800MHz CDMA digital cellular mobile telecommunication network technical specification of Wireless Intelligent Network (WIN)Phase2</p>		

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		№	Name				
18	Intelligent Network Equipment		All Parameters	0419 11	YDN 119.2-1999 China Intelligent Network equipment Testing Specification Part of Service Switching Point(SSP) YDN 119.3-1999 China Intelligent Network equipment Testing Specification Part of Service Management Point (SMP) YDN 119.4-1999 China Intelligent Network equipment Testing Specification Part of Service Creating Environment Point (SCEP) YDN 115.1-1999 China Intelligent Network equipment Testing Specification UPT Service YDN 115.2-1999 China Intelligent Network equipment Testing Specification WAC Service YDN 115.3-1999 China Intelligent Network equipment Testing Specification VOT Service YDN 115.4-1999 China Intelligent Network equipment Testing Specification MAS Service TMC-TM-006 The technical specification of Using Intelligent Network providing Public Telephone Service		
		1	SSP function test	0419 11	YDN 047-1997 Technical specification of china intelligent network equipment – Service Switching Point (SSP)		
		2	SCP function test		YDN 048-1997 Technical specification of china intelligent network equipment – Service Control Point (SCP)		

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		№	Name				
18	Intelligent Network Equipment	3	IP function test	0419 11	YD/T 1253-2003 Test method of intelligent network equipment – Intelligent Peripheral (IP)	Accredited only for: 5	
					YDN 098-1999 Technical specification of china intelligent network equipment – Intelligent Peripheral (IP)		
		4	SCEP function test		YDN 049-1997 Technical specification of china intelligent network equipment – Service Creation Environment Point (SCEP)		
					YDN 050-1997 Technical specification of china intelligent network equipment – Service Management Point (SMP)		
		5	SMP function test		GF017-95 Intelligent Network Application Protocol (INAP)		
					YD/T 1253-2003 Test method of intelligent network equipment – Intelligent Peripheral (IP)	Accredited only for:6	
19	EthernetAccess Device		All Parameters	0419 11	YD/T1160-2001 《Access Network Technical Specification-Broadband Access Network Based on Ethernet Technology》 YD/T1240-2002 《Test Mothod for Access Network-Broadband Access Network Based on Ethernet Technology》 IEEE802.3-1998 《Carrier Sense Multip Access with Collision Detection(CSMA/CD)Access Method and Physical Layer Specifications》 RFC1242 《Benchmarking Terminology for Network Interconnection Devices》 RFC2544 《Benchmarking Methodology for Network Interconnect Devices》		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
19	EthernetAccess Device	1	Identity authentication	0419 11	YD/T 1160-2001 《Access Network Technical Specification-Broadband Access Network Based on Ethernet Technology》		
		2	IP Address administration				
		3	Function of communications safety on network side				
		4	Function of communications safety on User side				
		5	Network administration safety				
		6	1000BASE-LX interface		YD/T 1240-2002 《Test Method for Access Network-Broadband Access Network Based on Ethernet Technology》		
		7	100BASE-FX interface				
		8	ATM (STM-1 optical interface)		YD/T 1240-2002 《Test Method for Access Network-Broadband Access Network Based on Ethernet Technology》 YD/T 1054-2000 《Access network technical specification-Integrated digital loop carrier (IDLC)》		
		9	ATM (STM-1 electrical interface)		YD/T 1240-2002 《Test Method for Access Network-Broadband Access Network Based on Ethernet Technology》 YD/T 1054-2000 《Access network technical specification-Integrated digital loop carrier (IDLC)》		
		10	ATM (STM-4 optical interface)				

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		№	Name				
19	EthernetAccess Device	11	POS 155/622Mb/s	0419 11	YD/T 1240-2002 《Test Method for Access Network-Broadband Access Network Based on Ethernet Technology》		
		12	User ethernet interface 10/100Base-T Connectivity test				
		13	Function test			YD/T 1160-2001 8.2 《Access Network Technical Specification-Broadband Access Network Based on Ethernet Technology》	
		14	Account test		YD/T 1240-2002 《Test Method for Access Network-Broadband Access Network Based on Ethernet Technology》		
		15	ARP test				
		16	IP test				
		17	ICMP test				
		18	ICMP V2 check the ACK message test		YD/T 1240-2002 《Test Method for Access Network-Broadband Access Network Based on Ethernet Technology》		
		19	Equipment performance of Network side				
		20	Equipment performance of User side				
		21	Network management test				
		22	Environment temperature flexibility test				
		23	Safety flexibility test		YD/T 965-1998 《The safety requirement and test method for telecommunication terminal equipment》		
		24	defend lightning strike test		YD/T 993-2006 《Technical requirements and test methods of lightning resistibility for telecommunication terminal equipment》		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
20	Wireless data Access Equipment -- 3.5G Fixed Wireless Access Equipment		All Parameters	0419 11	YD/T 1197-2002 Test Specification for Access Network—3.5GHz Fixed Wireless Access YD/T 1158-2001 Access Network Technical Specification—3.5GHz Fixed Wireless Access Technology YD/T 1186-2002 Access Network Technical Specification--Local Multi-point Distribution System YD/T 1301-2004 Access Network Test Method--26GHz Local Multi-point Distribution System YD/T 1301-2004 Test method for access network -- 26GHz Local Multi-point Distribution System(LMDS)		
		1	Calling part number's generation、transmission、appreciation and tracing to the source	0419 11	YD/T 1380.1-2005 appendix k 《Technical requirements of V5 interface Part1:V5.1 interface》 YD/T1265—2003 《Testing methods of Networks Access Server(NAS)-Broadband network access server》		
		2	Address administration and identity authentication		YD/T1158-2001 6.2.3 《Access Network Technical Specification - 3.5GHz Fixed Wireless Access Technology》		
		3	Network administration safety	0419 11	YD/T1197-2002 8.2 《 Test Specification for Access Network -3.5GHz Fixed Wireless Access》 YD/T 1158-2001 10.2 《Access Network Technical Specification - 3.5GHz Fixed Wireless Access Technology》		

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		№	Name				
20	Wireless data Access Equipment -- 3.5G Fixed Wireless Access Equipment	4	Communication safety	0419 11	YD/T 1197-2002 7 《Test Specification for Access Network -3.5GHz Fixed Wireless Access》 YD/T 1158-2001 7、10 《Access Network Technical Specification - 3.5GHz Fixed Wireless Access Technology》		
		5	Overvoltage and over		YD/T 950-1998 3.1 《Technical requirements and test methods for protection against overvoltages and overcurrents on telecommunication switching equipment》 YD/T 870-1996 3.1 《Technical requirements and test methods for protection against overvoltages and overcurrents on user-end equipment》		
		6	Wireless performance		YD/T 1158-2001 8 《Access Network Technical Specification - 3.5GHz Fixed Wireless Access Technology》 YD/T1197-2002 5.2 5.1 《Test Specification for Access Network -3.5GHz Fixed Wireless Access》		
		7	E1 interface		GB/T 7611-2001 6 《Characteristics of the electrical interface at hierarchical bit rate for digital network》		
		8	N×64kbit/s interface		GB/T 7611-2001 5 《Characteristics of the electrical interface at hierarchical bit rate for digital network》		
		9	10BASE-T/100BASE-X interface		YD/T1098 3.3.7 《Test Specification for low-end router》		
		10	STM-1 electrical interface		GB/T 7611-2001 10 《Characteristics of the electrical interface at hierarchical bit rate for digital network》		

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		№	Name				
20	Wireless data Access Equipment -- 3.5G Fixed Wireless Access Equipment	11	STM-1 interface (fiber interface)	0419 11	GB/T15941-1995 table 4 《Requirements for synchronous digital hierarchy(SDH)optical fiber cable line systems of national public telecommunication network》		
		12	ATM interface—204 8kbit/s		GB/T 7611-2001 6 《Characteristics of the electrical interface at hierarchical bit rate for digital network》 YDN103-1998 4.3		
		13	ATM interface—155.520 electrical interface		GB/T 7611-2001 10 《Characteristics of the electrical interface at hierarchical bit rate for digital network》 YDN103-1998 4.3		
		14	ATM interface—155.520 fiber interface		GB/T15941-1995 table 4 《Requirements for synchronous digital hierarchy(SDH)optical fiber cable line systems of national public telecommunication network》 YDN103-1998 4.3 《Test Specification for ATM switch equipment》		
		15	ATM interface—622.080 fiber interface		GB/T15941-1995 table 5 《Requirements for synchronous digital hierarchy(SDH)optical fiber cable line systems of national public telecommunication network》 YDN103-1998 4.3 《Test Specification for ATM switch equipment》		
		16	V.24 interface		YD/T1137-2001 4.1.3.1 《Technical Requirements and test methods for frame relay device》		
		17	V.35 interface		YD/T1137-2001 4.1.3.2 《Technical Requirements and test methods for frame relay device》		

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		№	Name				
20	Wireless data Access Equipment -- 3.5G Fixed Wireless Access Equipment	18	ISDN U interface	0419 11	G.961 中 fig II.11、12、14、15 《Digital transmission system on metallic local lines for ISDN basic rate access》		
		19	ISDN S/T interface		YDN 034.1-1997 中 fig 13、15 《ISDN user-technical specification for network interface Part 1:Technical specification for Physical layer》		
		20	ISDN PRA interface		YD/T1077-2000 8.4 《Access Network Technical Specification-Narrowband Passive Optical Network(PON)》		
		21	Z interface		YD/T1070-2000 4.1 《Z interface requirement of access network remote equipment》		
		22	V5.2 protocol conformance test		YDN108-1998 《V5.2 interface-technical Specification for conformance testing》		
		23	System function		YD/T 1197-2002 8 《 Test Specification for Access Network -3.5GHz Fixed Wireless Access》、 YD/T 1158-2001 6 《Access Network Technical Specification - 3.5GHz Fixed Wireless Access Technology》		
		24	Power supply flexibility		YD/T1197—2002 9.1 《 Test Specification for Access Network -3.5GHz Fixed Wireless Access》、 YD/T 1158-2001 12.1 《Access Network Technical Specification - 3.5GHz Fixed Wireless Access Technology》		
		25	Environment temperature flexibility		YD/T1158—2001 12.2 《Access Network Technical Specification - 3.5GHz Fixed Wireless Access Technology》、 YD/T1197—2002 9.2 《 Test Specification for Access Network -3.5GHz Fixed Wireless Access》		
26	Appearance and assembly	YD/T 1197-2002 9.5 《 Test Specification for Access Network -3.5GHz Fixed Wireless Access》					

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
20	Wireless data Access Equipment -- LMDS Wireless Access Equipment	1	Calling part number's generation、transmission、appreciation and tracing to the source	0419 11	YD/T 1380.1-2005 appendix k 《Technical requirements of V5 interface Part1:V5.1 interface》 YD/T1265—2003 《Testing methods of Networks Access Server(NAS)-Broadband network access server》		
		2	Address administration and identity authentication		YD/T 1186—2002 7.3.3 《Access network technical specification-26GHz local Multi-point Distribution System(LMDS)》		
		3	Network administration safety		YD/T 1301-2004 9 《Test method for access network-26GHz local Multi-point Distribution System(LMDS)》 YD/T 1186—2002 10 《Access network technical specification-26GHz local Multi-point Distribution System(LMDS)》		
		4	Communication safety		YD/T 1301-2004 6.2 《Test method for access network-26GHz local Multi-point Distribution System(LMDS)》、 YD/T1186—2002 8 《Access network technical specification-26GHz local Multi-point Distribution System(LMDS)》		
		5	Overvoltage and over		YD/T 950-1998 3.1 《Technical requirements and test methods for protection against overvoltages and overcurrents on telecommunication swithing equipment》 YD/T 870-1996 3.1 《Technical requirements and test methods for protection against overvoltages and overcurrents on user-end equipment》		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
20	Wireless data Access Equipment -- LMDS Wireless Access Equipment	6	Wireless performance	0419 11	YD/T 1301-2004 5 《Test method for access network-26GHz local Multi-point Distribution System(LMDS)》、 YD/T 1186—2002 9 《Access network technical specification-26GHz local Multi-point Distribution System(LMDS)》		
		7	E1 interface		GB/T 7611-2001 6 《Characteristics of the electrical interface at hierarchical bit rate for digital network》		
		8	N×64kbit/s interface		GB/T 7611-2001 5 《Characteristics of the electrical interface at hierarchical bit rate for digital network》		
		9	10BASE-T/100BASE-X interface	0419 11	YD/T1098 3.3.7 《Test Specification for low-end router》		
		10	STM-1 electrical interface	0419 11	GB/T 7611-2001 10 《Characteristics of the electrical interface at hierarchical bit rate for digital network》		
		11	STM-1 interface (fiber interface)	0419 11	GB/T15941-1995table 4 《Requirements for synchronous digital hierarchy(SDH)optical fiber cable line systems of ntional public telecommunication network》		
		12	ATM interface—2048 kbit/s	0419 11	GB/T 7611-2001 6 《Characteristics of the electrical interface at hierarchical bit rate for digital network》 YDN103-1998 4.3		
		13	ATM 接口 interface-155.520 electrical interface	0419 11	GB/T 7611-2001 10 《Characteristics of the electrical interface at hierarchical bit rate for digital network》 YDN103-1998 4.3		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
		14	ATM interface-155.520 fiber interface	0419 11	GB/T15941-1995 table 4 《Requirements for synchronous digital hierarchy(SDH)optical fiber cable line systems of national public telecommunication network》 YDN103-1998 4.3 《Test Specification for ATM switch equipment》		
20	Wireless data Access Equipment -- LMDS Wireless Access Equipment	15	ATM interface-622.080 fiber interface	0419 11	GB/T15941-1995 table 5 《Requirements for synchronous digital hierarchy(SDH)optical fiber cable line systems of national public telecommunication network》 YDN103-1998 4.3 《Test Specification for ATM switch equipment》		
		16	V.24 interface	0419 11	YD/T1137-2001 4.1.3.1 《Technical Requirements and test methods for frame relay device》		
		17	V.35 interface	0419 11	YD/T1137-2001 4.1.3.2 《Technical Requirements and test methods for frame relay device》		
		18	ISDN U interface	0419 11	G.961 中 fig II.11、12、14、15 《Digital transmission system on metallic local lines for ISDN basic rate access》		
		19	ISDN S/T interface	0419 11	YDN 034.1-1997 中 fig 13、15 《ISDN user-technical specification for network interface Part 1:Technical specification for Physical layer》		
		20	ISDN PRA interface	0419 11	YD/T1077-2000 8.4 《Access Network Technical Specification-Narrowband Passive Optical Network(PON)》		
		21	Z interfac	0419 11	YD/T1070-2000 4.1 《Z interface requirement of access network remote equipment》		
		22	V5.2 protocol conformance test	0419 11	YDN108-1998 《V5.2 interface-technical Specification for conformance testing》		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
		23	System function	0419 11	YD/T 1301-2004 7 《Test method for access network-26GHz local Multi-point Distribution System(LMDS)》、 YD/T1186-2002 8 《Access network technical specification-26GHz local Multi-point Distribution System(LMDS)》		
20	Wireless data Access Equipment — LMDS Wireless Access Equipment	24	Power supply flexibility	0419 11	YD/T 1301-2004 1 《Test method for access network-26GHz local Multi-point Distribution System(LMDS)》、 YD/T1186—2002 8 《Access network technical specification-26GHz local Multi-point Distribution System(LMDS)》		
		25	Environment temperature flexibility	0419 11	YD/T 1301-2004 10.2 《Test method for access network-26GHz local Multi-point Distribution System(LMDS)》 、 YD/T1186-2002 11.2 《Access network technical specification-26GHz local Multi-point Distribution System(LMDS)》		
		26	Appearance and assembly	0419 11	YD/T 1301-2004 10.5 《Test method for access network-26GHz local Multi-point Distribution System(LMDS)》、 YD/T 1197-2002 10.5 《 Test Specification for Access Network -3.5GHz Fixed Wireless Access》		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
21	automatic call distributing system		All Parameters	0419 11	YD 344-90 《Requirements for PABXs access to Public telephone switching network》 YD/T 729-94 《The testing methods for PABXs 》 YD/T751-95 《The testing methods for SPC of Public Telephone Network》 YDN065-1997 《General technical requirements for the telephone exchange equipment of MPT》 YD/T 987-1998 《technical requirment and test method for digital queue equipment of PSTN》		
22	Digital stored program control dispatching system		All Parameters	0419 11	YD/T954-1998 《Technical requirements and test method of digital stored program control dispatching equipment》 YD/T 729-94 《The testing methods for PABXs 》 YD/T751-95 《The testing methods for SPC of Public Telephone Network》 YDN065-1997 《General technical requirements for the telephone exchange equipment of MPT》		
		1	Calling Party Number create, carry, audit and trace	0419 11	YD/T 1277.1-2003 《Technical specification and testing method of caller identity delivery based on PSTN part 1:technical specification》		

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		№	Name				
23	Call center equipment		All Parameters	0419 11	YD/T1040-2000 《900/1800MHz TDMA Digital Cellular Mobile Telecommunication Network Short Message Center Equipment Testing Specification Part one: Point to Point Short Message Service》 YD/T 1150-2001 《Technical requirements for intellingent network providing public telephone service》		
24	Ethernet switch device		All Items	0419 11	YD/T 1141-2007 Test specification for Ethernet switch		
24	Ethernet switch device		All Items	0419 11	YD/T 1099-2005 《Technical Specification for GigaBit Ethernet Lan Switch Equipment》 YD/T 1358-2005 Security Requirements of Medium-end and Low-end Router(IPv4) YD/T1440-2006 Router security test methods-middle/low end router(IPv4) YD/T 1148-2005 《Technical requirements of network access server--Broadband Network Access Server(BNAS)》 YD/T 1260-2003 《Technical and Testing Specification of Virtual LAN Based on Port (VLAN)》		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
25	Integrated digital multiplex equipment		All Parameters	0419 11	YD/T536-92 《Methods of measurement for digital network interface parameter of pulse code mediation (PCM) telecommunication system》 YD/T 922-1997 《Performance and test methods of the integrated multiplex equipment using in the digital channel》 YD/T 751-95 《Methods of measurement for digital network interface parameter of pulse code mediation (PCM) telecommunication system》		
25	Integrated digital multiplex equipment	1	Performance of cross connect	0419 11	YD/T 878-1996 The requirement for 64kbit/s cross connect equipment on 2048kbit/s input port		
		2	DC supply		YD/T 1096-2001 Technical specification for low end router equipment		
		3	Performance in normal temperature (Ethernet)				
25	Integrated digital multiplex equipment	4	electrical characteristics of U interface (LT side)	0419 11	ITU-T G.961 Digital transmission system on metallic local line for ISDN rate access		
		5	electrical characteristics of U interface (NT side)				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
26	digital cross-connect equipment		All Parameters	0419 11	GB/T 7611-2001 《Characteristics of the electrical interface at hierarchical bit rate for digital network》 YD/T 878-1996 《Characteristics of a 64 kbit/s cross-connect equipment with 2048 kbit/s access ports》 YD/T 1012-1999 《Node clock set of digital synchronization network and its timing feature》		
		1	Electric safety of equipment				
		2	Characteristics of V.24 interface		YD/T 922-1999 Performance and test methods of the integrated multiplex equipment using in the digital channel		
		3	Characteristics of V.35 interface				
		4	Performance of transmission data				

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		№	Name				
27	Optical Fiber Cable for Telecommunication		All Parameters	0419 14	GB/T 13993.3-2001 《The series of optical fiber cables for telecommunication Part 3: Indoor optical fiber cables for generic cabling YD/T 1258.2-2003 The series of indoor optical fibre cables part 2:single-fibre optical cable YD/T 1258.3-2003 The series of indoor optical fibre cables part 3:dual-fibre optical cable YD/T 769-2003 Optical fiber cables for core network——Central tube type of outdoor optical fiber cables for telecommunication YD/T 1258.5-2005 The series of indoor optical fibre cables Part 5: Optical fibre ribbon cables YD/T 979-1998 Specifications and test methods for optical fiber ribbon YD/T981-1~981-3-1998 Optical fibre ribbon cables for access network YD/T901-2001 Optical Fiber Cables for Core Network-Loose Tube Stranding Type of Outdoor Optical Fiber Cables for Telecommunication YD/T982-1998 Emergency optical fibre cable YD/T980-2002 All Dielectric Self-Supporting Optical Fiber Cable YD/T823-1996 Optical fiber cable for outdoor use		
		1	Integrity and appearance of optical fiber cables frame		YD/T 1258.4-2005 The series of indoor optical cables Part 4: Multi-fibre optical cables		

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		№	Name				
27	Optical Fiber Cable for Telecommunication	2	Dimension of optical fiber cables frame	0419 14	YD/T 1258.4-2005 The series of indoor optical cables Part 4: Multi-fibre optical cables		
		3	Length of optical fiber cables				
		4	Characteristic of optical fiber in optical fiber cables				
		5	Characteristic of optical fiber cables' jacket				
		6	Mechanism capability of optical fiber cables				
		7	Environment Capability of optical fiber cables				
		8	Sign of optical fiber cables				
		9	Packing				
		28	Cross Connecting cabinet for Communication Optical Cable				All Items
	All Items			0419 14	YD/T814.1-2004 《Fiber cable connection box》 YD/T 814.2-2005 Closure for optical fibre cables Part 2: Closure for optical fibre composite overhead ground wires		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
29	Optical fibre amplifier		All Parameters	0430 06	Technical requirements of optical fibre amplifier YDN 003-1996 Basic specification for optical fibre amplifier test methods-Part 1:Test methods for gain parameters GB/T 16850.1-1997 Basic specification for optical fibre amplifier test methods-Part 2:Test methods for power parameters GB/T 16850.2-1999 Basic specification for optical fibre amplifier test methods-Part 3:Test methods for noise figure parameters GB/T 16850.3-1999		
30	Optical Negative Element- Optical Fiber Coupler		All Parameters	0430 06	YD/T 893-1997 《Specification of Optical Fiber Coupler》		
31	Optical Negative Element- Optical Fiber Wavelength Multiplexer		All Parameters	0430 06	YD/T964—1998 《Specification and Method of Measurement for 1310nm/1550nm Optical Fiber Wavelength Multiplexer》		
32	Optical Negative Element- Optical Attenuator		All Parameters	0430 06	YD/T 894-1997 《Specification of Optical Fiber Attenuator》		

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		№	Name				
33	router device		All Parameters	0419 11	<p>YD/T1098-2001 《Test specification for low-end router》</p> <p>YD/T1156-2001 《Test specification for high-end router》</p> <p>YD/T 1097—2001 《Router Equipmet Technical Specification-High End Router》 YD/T1096-2001 《Technical specification for low-end router equipment》</p> <p>RFC1981 Path MTU Discovery for IP version 6 RFC2080 RIPng for IPv6</p> <p>RFC2460 Internet Protocol, Version 6 (IPv6) Specification</p> <p>RFC2461 Neighbor Discovery for IP Version 6 (IPv6) RFC2462 IPv6 Stateless Address Autoconfiguration</p> <p>RFC2463 Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specifical tion RFC2545 Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing RFC2710 Multicast Listener Discovery (MLD) for IPv6 RFC2740 OSPF for IPv6</p> <p>RFC2858 Multiprotocol Extensions for BGP-4 RFC2894 Router Renumbering for IPv6</p> <p>TMC-TM-01-023 Testing Specification for Router Equipment Supporting IPv6</p>		

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		№	Name						
33	router device	1	Network information safety	0419 11	YD/T 1358-2005 《Security requirements of medium-end and low-end router》 YD/T 1359-2005 《Security requirements of high-end router》 YD/T 1452-2006 IPv6 《IPv6 Network Equipment Technical Requirements—Edge Router Supporting IPv6》 YD/T 1453-2006 IPv6 《IPv6 Network Equipment Testing Methods—Edge Router Supporting IPv6》 YD/T 1454-2006 IPv6 《IPv6 Network Equipment Technical Requirements—Core Router Supporting IPv6》 YD/T 1455-2006 IPv6 《IPv6 Network Equipment Testing Methods for Core Router Supporting IPv6》				
					2	Is-is protocol coherence test	YD/T 1251.1-2003 《The conformance testing specification for intermediate system to intermediate system routing exchange protocol (IS-IS) 》		
					3	OSPF protocol coherence test	YD/T 1251.2-2003 《The conformance testing specification for Open Shortest Path First (OSPF)》		
					4	BGP4 protocol coherence test	YD/T 1251.3-2003 《The conformance testing specification for border gateway protocol (BGP4)》		
					5	MPLS protocol coherence test	YD/T 1162.1-2005 《 MultiProtocol Label Switching (MPLS) technical requirements》 YD/T 1391.1-2005 《 MultiProtocol Label Switching (MPLS) Testing methods》		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
33	router device	6	ATM protocol test	0419 11	YD/T 1452-2006 IPv6 《IPv6 Network Equipment Technical Requirements—Edge Router Supporting IPv6》 YD/T 1453-2006 IPv6 《IPv6 Network Equipment Testing Methods—Edge Router Supporting IPv6》 YD/T 1454-2006 IPv6 《IPv6 Network Equipment Technical Requirements—Core Router Supporting IPv6》 YD/T 1455-2006 IPv6 《IPv6 Network Equipment Testing Methods for Core Router Supporting IPv6》		
		7	PPP protocol test				
		8	IPv6 protocol coherence test				
		9	ND protocol coherence test				
		10	Path MTU discover protocol coherence test				
		11	ICMPv6 protocol coherence test				
		12	Stateless address auto configuration protocol coherence test				
		13	IPv6router re-number protocol coherence test				
		14	MLD protocol coherence test				
		15	TCP protocol coherence test				
		16	UDP protocol coherence test				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
33	router device	17	RIPng protocol coherence test	0419 11	YD/T 1452-2006 IPv6 《IPv6 Network Equipment Technical Requirements—Edge Router Supporting IPv6》 YD/T 1453-2006 IPv6 《IPv6 Network Equipment Testing Methods—Edge Router Supporting IPv6》 YD/T 1454-2006 IPv6 《IPv6 Network Equipment Technical Requirements—Core Router Supporting IPv6》 YD/T 1455-2006 IPv6 《IPv6 Network Equipment Testing Methods for Core Router Supporting IPv6》		
		18	PIM-SM protocol coherence test				
		19	OSPFv3 protocol coherence test				
		20	BGP4+ protocol coherence test				
		21	IS-ISv6 protocol coherence test				
		22	Network manager function test				
		23	Performance and Qos test				
34	ATM Switch		All Parameters	0419 11	YD/T1137-2001 Technical requirements and test methods for frame relay device YD/T1109-2001 TECHNICAL SPECIFICATION OF ATM SWITCH YDN103-1998 TEST SPECIFICATION OF ATM SWITCH YD/T 1246-2002 《Test method of ATM switch equipment》		
35	IP voice switch		IP voice switch parameter test	0419 11	YD/T 1071-2006 《Technical requirements for IP telephony gateway》 YD/T 1072-2006 《Testing method for IP telephony gateway》		
			All Parameters	0419 11	YDN 065-1997 The General Technical Specification to SPC YD/T 1128-2001 The Supplementary Specification to SPC YD/T 1044-2000 The General Technical Requirement of IP telephony and IP Fax Services YD/T 1296-2003 (Technical Requirements for IP Voice CO Switch)		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
36	ADSL equipment		All Parameters	0419 11	YD/T 1323-2004 Access network technical specification- low-speed asymmetric Digital Subscriber Line system (ADSL) YD/T 1055-2000 Access network technical specification--low-speed asymmetric Digital Subscriber Line system (ADSL)		
		1	Interface test-SNI	ATM 622M laser interface	0419 11	YD/T 1055-2005 Tset method for access network equipment- asymmetric digital subscriber line (ADSL)	
		2		ATM 155M laser interface			
		3		ATM 155M electronic interface			
		4	Interface test-SNI	ATM 34M electronic interface			
		5		ATM 2 M IMA electronic interface			
		6		10/100 Base-T interface			
		7		100Base Fx interface			
		8	GE interface				
		9	Interface test-UNI	10/100 Base-T interface			
		10		PCI interface			
11	USB interface						
36	ADSL equipment	12	Line interface	0419 11	YD/T 1055-2005 Tset method for access network equipment-asymm		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
		13	Administrative interface		Asymmetric digital subscriber line (ADSL)		
		14	POTS-ADSL splitter				
		15	ISDN-ADSL splitter				
		16	Service over POTS				
		17	Service over ISDN				
		18	ADSL Transceiver Unit function				
		19	Function test ATM DSLAM function				
		20	IP DSLAM function				
		21	User unit function				
		22	Performance test ADSL physical layer transmission performance				
		23	High layer performance				
		24	Operation administrative and maintenance request				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note	
		№	Name					
37	VDSL Equipment		All Parameters	0419 11	YD/T 1239-2002 Access network technical specification- Very-high-speed Digital Subscriber Line(VDSL)			
		1	Line interface	SNI interface	0419 11	YD/T 1314-2004 Test method for access network - Very-high-speed Digital Dubscriber Line (VDSL)		
		2	ATM Laser interface					
		3	ATM electronic interface					
		4	10/100 Base-T interface					
		5	100Base-Fx interface					
		6	GE interface					
		7	10/100 Base-T interface					
		8	USB interface					
		9	PCI interface					
		10	Splitter test					
		11	VDSL line function					
		12	Ethernet function					
		13	ATM function					
		14	Line ratio	Performance test				
		15	Transition performance test					
		16	Performance test					
17	Administer function test							

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		№	Name				
38	IP telephony Gateway		All Items	0419 11	YD/T 1072-2006 《Testing Method for IP Telephony Gateway》 YD/T 1142-2005 《Technical Requirements and Testing Method for IP Telephony Gatekeeper》		
			All Items	0419 11	YD/T 1046-2000 Interoperability Specification for IP Telephony Gateway YD/T 1264-2003 General technical requirement of IP telephony and IP fax services: Phase two		
39	Auto Monitor System For Optical Cable		All Parameters	0419 01	YDN010—1998 Specification of Auto Monitor System For Optical Cable		
40	Optical Fiber Transceiver		All Items	0419 07	YD/T 1464-2006 《Test for Optical Fiber Transceiver》、 YD/T 1528-2006 《Technical requirement for Optical Fiber Transceiver》、 YD/T 1156-2001 《Test Sepecification for High-End Router》		
41	Interface converter	1	E1 interface Parameters	0419 07	GB/T 7611-2001 《Characteristics of the electrical interface at hierarchical bit rate for digital network》	Accredited only for: test items concerning E1 interface	
		2	V interface Parameters		YD/T 922-1997 《Performance and test methods of the integrated multiplex equipment using in the digital channel》	Accredited only for V.35/V.24 interface、Ethernet interface & performance	
		3	RJ45 interface Parameters		IEEE 802.3-2002 《Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications》	Accredited only for : IEEE 802.3 14.3.1.2 RJ45 interface Specifications	

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
41	Interface converter	4	Network performance Parameters	0419 07	RFC 1242- 1991 《Benchmarking Terminology for Network Interconnection Devices》 3.8 、 3.17、 3.6	Accredited only for : 3.17,3.8,3.6 defined throughput, Latency & Packet loss	
					RFC 2544- 1991 《Benchmarking Methodology for Network Interconnect Devices》 26.1、 26.2、 26.3	Accredited only for : 26.1、 26.2、 26.3 throughput, Latency & Packet loss testing Specifications	
		5	security		YD/T 965-1998 The Safety requirement and test method for telecommunication terminal equipment		
		6	physical interface		YD/T 1330-2004 Technical requirement and testing methods for data communication interface converters	Except for 10GE	
		7	transmission performance			Except for 10GE	
		8	function			Except for 10GE	
		9	environmental adaptation		YD/T 704-1993 Test methods for voice band modem		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
42	Single-Multi mode convertor for Optical Fibers	1	optical interface parameters	0419 14	GB/T15941-1995 《Requirements for synchronous digital hierarchy(SDH) optical fiber cable line systems of national public telecommunication network》 YD/T 1141-2001 《Test Methods for Gigabits Ethernet Switchs》 GB/T16814-1997 《Test Methods for synchronous digital hierarchy(SDH) optical fiber cable line systems》 RFC2544 《Benchmarking Methodology for Network Interconnect Devices》	Accredited only for : GB/T15941-1995 : chapter 7 - the demands of optical interface GB/T 16814 -1997 chapter 3 - the demands of optical interface YD/T 1141-2001 5.1.1,5.1.2 - the demands of optical interface RFC2544 6,7,8,9 - the transfer test	
		2	optical interface parameters				
		3	RJ45 interface Parameters				
		4	Network performance Parameters				
43	Charging system of public telecommunication network		All Parameters	0419 14	YD/T1278-2003 《The technical demand and testing method for the charging performance of SPC-telephone network part》		
44	Passive optical network based on ATM (A-PON)		All parameters	0419 11	YD/T1250-2003 《Test method for access network –Passive optical network based on ATM (A-PON)》 YD/T1156-2001 《Test specification for High-End Router》 YD/T1098-2001 《Test specification for Low-End Router》 YDN103-1998 《Test specification for ATM Switcher》 YD/T1141-2001 《Testing Specification for Giga Bit Ethernet LAN Switch》		
		1	Calling number produce , transfer,check and trace	0419 11	YD/T 1380.1-2005 Technical requirements of V5 interface part1:V5.1 interface		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
44	Passive optical network based on ATM (A-PON)	2	Safety performance of supply	0419 11	YD/T 965-1998 The Safety requirement and test method for telecommunication terminal equipment		
		3	supply performance of guard thunder and lightning of	0419 11	YD/T 993-2006 The technical requirements and test methods of overvoltages and overcurrents resistibility for telecommunication terminal equipment		
		4	Z interface		YD/T 1054-2000 Access network technical specification –Integrated digital loop carrier(IDLC)		
		5	Za interface				
		6	Communication safety	0419 11	YD/T 1418-2005 Technical requirements for access network multi-service access node (MASN)		
		7	Conformance of V5.2 protocol		YDN108-1998 Test specification for conformance test: V 5.2 interface		
45	Passive optical network based on Ethernet (E-PON)		All parameters	0419 11	YD/T1250-2003 《Test method for access network –Passive optical network based on ATM (A-PON)》 YD/T1156-2001 《Test specification for High-End Router》 YD/T1098-2001 《Test specification for Low-End Router》 YDN103-1998 《Test specification for ATM Switcher》 YD/T1141-2001 《Testing Specification for Giga Bit Ethernet LAN Switch》		
		1	Calling number produce , transfer ,check and trace	0419 11	YD/T 1380.1-2005 Technical requirements of V5 interface part1:V5.1 interface		
		2	Safety performance of supply	0419 11	YD/T 965-1998 The Safety requirement and test method for telecommunication terminal equipment		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
45	Passive optical network based on Ethernet (E-PON)	3	supply performance of guard thunder and lightning of	0419 11	YD/T 993-2006 The technical requirements and test methods of overvoltages and overcurrents resistibility for telecommunication terminal equipment		
		4	Z interface	0419 11	YD/T 1054-2000 Access network technical specification –Integrated digital loop carrier(IDLC)		
		5	Za interface	0419 11			
		6	Ip address management and identity check	0419 11	YD/T 1475-2006 Technical requirements for access network-passive optical network based on Ethernet(EPON)		
		7	Communication safety	0419 11			
		8	Security management	0419 11			
		9	1000BASE-PX10 interface	0419 11			
		10	1000BASE-PX20 interface	0419 11			
		11	Transmission distance and division ration	0419 11			
		12	Performance of distance test	0419 11			
		13	Ability of service support	0419 11			
		14	IP performance	0419 11			
		15	Performance of 2048kbit/spath or n×64 kbit/s path	0419 11			
		16	Performance of fibre protection switching	0419 11			
		17	Function of PON 系 system	0419 11			

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
45	Passive optical network based on Ethernet (E-PON)	18	Function of network management	0419 11	YD/T 1475-2006 Technical requirements for access network-passive optical network based on Ethernet(EPON)		
		19	Fibre temperature change alternately	0419 11			
		20	Low temperature	0419 11			
		21	high temperature	0419 11			
		22	High temperature and humidity	0419 11			
		23	supply Safety	0419 11			
		24	Conformance of V5.2 protocol	0419 11		YDN108-1998 Test specification for conformance test: V 5.2 interface	
46	SDH Multi-service transport platform (MSTP)		All parameters	0419 11	GB/T15941-1995 《Requirement for synchronous digital (SDH)optical fiber cable line systems of national public telecommunication network》 GB/T16841-1997 《Methods of measurement for synchronous digital (SDH)optical fiber cable line systems》 YD/T1276-2003 《Testing methods of SDH multi-service transport platform》 YD/T1238-2002 《Technical Requirements for SDH multi-service transport platform》 YD/T 900-1997 《Technical require ment for SDH equipment-Clock》 YD/T 1267-2003 《Technical requirements for synchronization network based on SDH transport networks》		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
46	SDH Multi-service transport platform (MSTP)	1	Error and jitter performance and jitter over of SDH system	0419 11	YDN 099-1998 Synchronous optical transport network technical system (Temporary provision)		
		2	Optical interface				
		3	Electric interface				
		4	Function and performance of system				
		5	Security management		YD/T 1289.2-2003 Synchronous digital hierarchy (SDH) transport network management system technical specification part 2: Element management system (EMS)		
		6	appearance, assembly, information		YD/T 655-94 The gradation of 34368kbit/s optical line terminals		
		7	Support ID range of VLAN and VLAN expand		YD/T 1346-2005 Test specification for SDH-base MSTP embedded with RPR		
		8	Optical interface		YD/T 1167-2001 Technical requirements for STM-64 Add-drop multiplexer		
		9	Function of forward error correction				
		10	Output jitter over STM-N network interface		YD/T 1205-2002 Technical requirements for metropolitan optical transpire network WDM ring		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note	
		№	Name					
47	SHDSL Equipment		All parameters	0419 11	YD/T 1185-2002 Access Network Technical Specifications-Single –pair High bit-rate Digital Subscriber Line			
		1	Service function	0419 11	YD/T 1417-2005 Testing methods for access network equipment –Single pair High-bit-rate Digital Subscriber Line(SHDSL)			
		2	Physical layer function	0419 11				
		3	Transition performance test	0419 11				
		4	Line interface	0419 11				
		5	SNI interface	E1 interface		0419 11		
		6		STM-1 laser interface		0419 11		
		7		100Base-Fx laser interface		0419 11		
		8		1000Base-Sx laser interface		0419 11		
		9		1000Base-Lx laser interface		0419 11		
		10	UNI interface	E1 interface		0419 11		
		11		V.35 interface		0419 11		
		12		FR-LMI protocol test		0419 11		
		13		10/100Base-T interface		0419 11		
14	Require and test for Administer and maintenance	0419 11						

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
48	Fiber optic cable end case		All parameters	0430 06	Fiber optic cable end case YD/T 925-1997		
49	Exchange of mobile network		All parameters	0419 11	YD/T 1328-2004 “The technical requirement and test method for the Charging Performance of exchange—Mobile Network Part”		
50	SDH-based MSTP Embedded with RPR		All parameters	0419 11	TMC-TM-01-009 《Technical Requirement for SDH-based MSTP Embedded with RPR》 TMC-TM-01-010 《The Specification for SDH-based MSTP Embedded with RPR》 YD/T1276-2003 《Testing methods of SDH Multi-Service Transport Platform》		
		1	System code error and jitter performance	0419 11	YDN 099-1998 《 Technical system for optical synchronization network 》 YD/T1205-2002 《Technical requirements for metropolitan optical transport network WDM ring》		
		2	SDH protect change function	0419 11	YD/T1238-2002 《Technical Requirements for SDH Multi-Service Transport Platform》 YD/T1267-2003 《Technical specification for synchronization network based on SDH transport network》		
		3	SSM clock	0419 11	YD/T1267-2003 《Technical specification for synchronization network based on SDH transport network》		
		4	GFP and LCAS	0419 11	ITU-T G.7041(2003)		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
50	SDH-based MSTP Embedded with RPR	5	Ethernet function	0419 11	YD/T1238-2002 《Technical Requirements for SDH Multi-Service Transport Platform》 YD/T1267-2003 《Technical specification for synchronization network based on SDH transport network》 IEEE 802.3(2000) 《 local network protocol standard》		
		6	RPR function	0419 11	YD/T1345-2005 《Technical Requirements for SDH-based MSTP Embedded with RPR》 YD/T1346-2005 《Test Specifications for SDH-based MSTP Embedded with RPR》		
		7	ATM function	0419 11	YD/T1238-2002 《Technical Requirements for SDH Multi-Service Transport Platform》		
		8	Safety manager and operation maintenance	0419 11	YD/T1276-2003 《Testing methods of SDH Multi-Service Transport Platform(MSTP) system》		
		9	general test	0419 11	YD/T655-94		
		10	Optical interface test	0419 11	YDN 099-1998 《technical system for optical synchronization network》 YD/T1167-2001 《Technical Requirements for STM-64 Add-Drop Multiplexer》 GB/T16814-1997 《Methods of measurement for synchronous digital hierarchy (SDH) optical fiber cable line systems》		
		11	Electricity interface test	0419 11	GB/T7611-2001 《Characteristics of the electrical interface at hierarchical bit rate for digital network》 YDN 099-1998 《technical system for optical synchronization network》		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
50	SDH-based MSTP Embedded with RPR	12	Device jitter performance test	0419 11	YDN 099-1998 《technical system for optical synchronization network》 YD/T1238-2002 《Technical Requirements for SDH Multi-Service Transport Platform》		
		13	System performance and function test	0419 11	YDN 099-1998 《technical system for optical synchronization network》 GB/T15941-200X 《Requirements for synchronous digital hierarchy (SDH) optical fiber cable line systems of national public telecommunication network》 YD/T1167-2001 《Technical Requirements for STM-64 Add-Drop Multiplexer》		
		14	Device clock test	0419 11	YD/T900-1997 《Technical Requirements for SDH device - clock》 YD/T1267-2003 《Technical specification for synchronization network based on SDH transport network》		
		15	Ethernet electronic interface	0419 11	YD/T1141-2001 《Testing Specification for Giga Bit Ethernet LAN Switch》		
		16	1000Base-LXinterface	0419 11			
		17	1000Base-SXinterface	0419 11			
		18	Ethernet interface function	0419 11	YD/T1238-2002 《Technical Requirements for SDH Multi-Service Transport Platform》 IEEE 802.3(2000) 《local network protocol standard》		
		19	Ethernet applications mapping capability	0419 11	YD/T1238-2002 《Technical Requirements for SDH Multi-Service Transport Platform》		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
50	SDH-based MSTP Embedded with RPR	20	Ethernet influx function	0419 11	YD/T1276-2003 《Testing methods of SDH Multi-Service Transport Platform(MSTP) system》		
		21	Layer-2 ethernet switch	0419 11	YD/T1238-2002 《Technical Requirements for SDH Multi-Service Transport Platform》		
		22	Ethernet performance	0419 11			
		23	Inline RPR function	0419 11	YD/T1345-2005 《Technical Requirements for SDH-based MSTP Embedded with RPR》 YD/T1346-2005 《Test Specifications for SDH-based MSTP Embedded with RPR》		
		24	ATM interface function	0419 11	YDN 103-1998 《Test method of ATM switch equipment》		
		25	ATM connection function	0419 11	YD/T1238-2002 《Technical Requirements for SDH Multi-Service Transport Platform》		
		26	ATM OAM function	0419 11	YD/T1238-2002 《Technical Requirements for SDH Multi-Service Transport Platform》 YD/T1276-2003 《Testing methods of SDH Multi-Service Transport Platform(MSTP) system》		
		27	ATM connection manager	0419 11	YD/T1238-2002 《Technical Requirements for SDH Multi-Service Transport Platform》		
		28	ATM transmission ability	0419 11	YD/T1238-2002 《Technical Requirements for SDH Multi-Service Transport Platform》		
		29	General network manager functions	0419 11	YD/T1276-2003 《Testing methods of SDH Multi-Service Transport Platform(MSTP) system》		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
50	SDH-based MSTP Embedded with RPR	30	Alarm manager	0419 11	YD/T1276-2003 《Testing methods of SDH Multi-Service Transport Platform(MSTP) system》 YD/T1289.2-2003 《Synchronous Digital Hierarchy (SDH)transport network management system technical specification part 2:Element Management System (EMS)function》		
		31	Performance manager	0419 11			
		32	Config manager	0419 11	YD/T1276-2003 《Testing methods of SDH Multi-Service Transport Platform(MSTP) system》 YD/T1346-2005 《Test Specifications for SDH-based MSTP Embedded with RPR》		
		33	reckoning manager	0419 11	YD/T1276-2003 《Testing methods of SDH Multi-Service Transport Platform(MSTP) system》		
		34	Sub-net manger function	0419 11			
51	Access Server		All parameters	0419 11	YD/T 1148-2005 《Technical Requirements of Network Access Server(NAS)-Broadband Network Access Server》 YD/T1265-2003 《Testing methods of Network Access Server(NAS)- Broadband network access server》 YD/T1045-2000 《Technical Specification for Network Access Server》 YD/T 1075-2000 《Test method for network access server》		
		1	IPSec test	0419 07	YD/T 《1358-2005 Security Requirements of Medium-end and Low-end Router(IPv4)》 YD/T1440-2006 《Router security test methods-middle/low end router(IPv4)》		
		2	Anti-Attack Capability test				
		3	URPF test				
		4	Access Control List test				
		5	Network Address Translation test				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
51	Access Server	6	Flow control test	0419 07	YD/T 《1358-2005 Security Requirements of Medium-end and Low-end Router(IPv4)》 YD/T1440-2006 《Router security test methods-middle/low end router(IPv4)》		
		7	OSPFv2 routing protocol security test				
		8	BGPv4 routing protocol security test				
		9	IS-IS routing protocol security test				
		10	RIPv2 routing protocol security test				
		11	IP security test				
		12	ICMP security test				
		13	TCP/UDP security test				
		14	VPN security test				
		15	Route filter test				
		16	Port mirroring				
		17	User Access Control test				
		18	Telnet access security test				
		19	SSH function test				
20	SNMPv3 function test						
21	Security Audit function test						
52	No Fiber Optical Transmission Equipment		All parameters	0419 11	TMC-TM-01-012 The Method of Test and Measurement for No Fiber Optical Transmission Equipment		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
53	Data Communication Equipment Security		All Parameters	0419 07	YD/T 1358-2005 Security Requirements of Medium-end and Low-end Router(IPv4) YD/T 1359-2005 Security Requirements of Medium-end and High-end Router(IPv4) TMC-TIR-01-133 Data Communication Equipment Security Test Specification YD/T1440-2006 Router security test methods-middle/low end router(IPv4) YD/T1439-2006 Router security test methods-high end router(IPv4)		
		1	Anti-attack of large scale traffic	0419 07	YD/T1628-2007 Security test methods for Ethernet switching equipment YD/T1627-2007 Security requirements of Ethernet switch equipment		
		2	Abnormal packet processing				
		3	Ping Flood attack				
		4	SYN Flood attack				
		5	Smurf attack				
		6	ACL based on source MAC				
		7	ACL based on destination MAC				
		8	Global ACL test				
		9	Interface ACL test				
		10	Forwarding Performance of ACL				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
53	Data Communication Equipment Security	11	Traffic classify based on five elements	0419 07	YD/T1628-2007 Security test methods for Ethernet switching equipment YD/T1627-2007 Security requirements of Ethernet switch equipment		
		12	Traffic classify based on source MAC				
		13	Traffic classify based on destination MAC				
		14	Traffic shaping				
		15	Link aggregation				
		16	802.1x local authentication				
		17	RADIUS 802.1x authentication (client side)				
		18	RADIUS 802.1x authentication (server side)				
		19	MAC address number limit of interface				
		20	MAC address number limit of VLAN				
		21	MAC address binding				
		22	Port mirroring				
		22	Broadcast suppression				
		24	Leakage of VLAN data				
		25	RSTP functions				
26	Root Guard						
27	BPDU Guard						

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
53	Data Communication Equipment Security	28	IGMP snooping	0419 07	YD/T1628-2007 Security test methods for Ethernet switching equipment YD/T1627-2007 Security requirements of Ethernet switch equipment		
		29	DHCP Snooping				
		30	User access control				
		31	Different User with different authentication				
		32	Telnet access number limit				
		33	Manage with Web				
		34	SSH connection establish				
		35	SSH connection number limit				
		36	SSH version compatible				
		37	Algorithm negotiation				
		38	Re-negotiation period				
		39	SSH interrupt message 1				
		40	SSH interrupt message 2				
		41	User authentication				
		42	SNMPv3 Get				
		43	SNMPv3 Get Next				
		44	SNMPv3 Get Bulk				
		45	SNMPv3 Set				
		46	SNMPv3 Trap				
		47	SNMPv3 security authentication of SNMPv3 workstation				
48	Security log						
49	Operation log						
50							

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
53	Data Communication Equipment Security	51	Anti-attack of large scale traffic	0419 07	YD/T1630-2007 Testing Methods for Ethernet Switching Devices security with Routing Capability YD/T1629-2007 Technical Requirements for Ethernet Switching Devices Security with Routing Capability		
		52	Abnormal packet processing				
		53	Ping Flood attack				
		54	SYN Flood attack				
		55	Smurf attack				
		56	Strict URPF				
		57	Loose URPF				
		58	URPF based on ACL				
		59	ACL based on source IP address				
		60	ACL based on destination IP address				
		61	ACL based on protocol type				
		62	ACL based on TCP/UDP source port				
		63	ACL based on TCP/UDP destination port				
		64	ACL based on five element				
		65	ACL based on source MAC				
		66	Interface ACL				
		67	Forwarding performance of ACL				
		68	Static NAT				
		69	Dynamic NAT				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
53	Data Communication Equipment Security	70	Port address translation (PAT)	0419 07	YD/T1630-2007 Testing Methods for Ethernet Switching Devices security with Routing Capability YD/T1629-2007 Technical Requirements for Ethernet Switching Devices Security with Routing Capability		
		71	Network address/port translation (NAPT)				
		72	Address mapping				
		73	NAT concurrent connection				
		74	CAR				
		75	Traffic classify based on five elements				
		76	Traffic classify based on source MAC				
		77	Link aggregation				
		78	802.1x local authentication				
		79	RADIUS 802.1x authentication (client side)				
		80	RADIUS 802.1x authentication (server side)				
		81	MAC address number limit of interface				
		82	VLAN MAC address number limit of interface				
		83	MAC address binding				
84	Simple authentication between DUT links						

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
53	Data Communication Equipment Security	85	MD5 authentication between DUT links	0419 07	YD/T1630-2007 Testing Methods for Ethernet Switching Devices security with Routing Capability YD/T1629-2007 Technical Requirements for Ethernet Switching Devices Security with Routing Capability		
		86	Simple authentication of OSPF area				
		87	MD5 authentication of OSPF area				
		88	MD5 authentication of IBGP				
		89	MD5 authentication of EBGp				
		90	IS-IS level-1 simple authentication				
		91	IS-IS level-1 MD5 authentication				
		92	IS-IS level-2 simple authentication				
		93	IS-IS level-2 MD5 authentication				
		94	IS-IS intra-area simple authentication				
		95	IS-IS intra-area MD5 authentication				
		96	IS-IS inter-area simple authentication				
		97	IS-IS inter-area MD5 authentication				
		98	RIPv2 simple authentication between DUT				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
53	Data Communication Equipment Security	99	RIPv2 MD5 authentication between DUT	0419 07	YD/T1630-2007 Testing Methods for Ethernet Switching Devices security with Routing Capability YD/T1629-2007 Technical Requirements for Ethernet Switching Devices Security with Routing Capability		
		100	Shut source-routing option				
		101	Reject obsolete ICMP packet				
		102	Shut TCP/UDP port (port number <1024)				
		103	MPLS VPN data leakage				
		104	MPLS multi-VPN data leakage				
		105	BGP ingress route filter				
		106	BGP egress route filter				
		107	Route filter based on route property				
		108	Route filter of route redistribution				
		109	RSTP function				
		110	Root Guard				
		111	BPDU Guard				
		112	IGMP Snooping				
		113	DHCP Snooping				
		114	Port mirroring				
		115	User access control				
116	Different User with different authentication						
117	Telnet access number limit						

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
53	Data Communication Equipment Security	118	SSH connection establish	0419 07	YD/T1630-2007 Testing Methods for Ethernet Switching Devices security with Routing Capability YD/T1629-2007 Technical Requirements for Ethernet Switching Devices Security with Routing Capability		
		119	SSH connection number limit				
		120	SSH version compatible				
		121	Algorithm negotiation				
		122	Re-negotiation period				
		123	SSH interrupt message 1				
		124	SSH interrupt message 2				
		125	User authentication				
		126	SNMPv3 Get				
		127	SNMPv3 Get Next				
		128	SNMPv3 Get Bulk				
		129	SNMPv3 Set				
		130	SNMPv3 Trap				
		131	SNMPv3 security				
		132	authentication of SNMPv3 workstation				
133	Security log						
134	Operation log						
135	Traffic flow sampling						

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
54	Mobile Softswitch Equipment of digital cellular Mobile Communication Network		Part Parameters	0419 11	GB/T 16814-1997 《Methods of measurement for synchronous digital hierarchy(SDH)optical fiber cable line system》	Accredited only of: 3 bit rate and allowed offset at the optical interface and 4 physical characteristics of the electric interface	
					GB/T 15941-1995 《Requirements for synchronous digital hierarchy(SDH) optical cable line systems of national public telecommunication network 》	Accredited only of: 7 physical characteristics of STM-1 optical interface 11 jitter performance	
					YDN065-1997 《Technical Requirements for telephone switching equipments of MPT》	Accredited only of: 16 Equipment under test power on check and problem recover check	
					YD/T 1243.1-2002 《Technical specification for IP trunk media gateway》	Accredited only of: 13.3 Safety test	
					YDC 003—2001 《General technical requirements for soft switch 》	Accredited only of: 9 operation management	

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		№	Name				
54	Mobile Softswitch Equipment of digital cellular Mobile Communication Network				YD/T 1109-2001 《Technical specification of ATM switch》	Accredited only of: 6.2 optical interface characteristics of STM—1 on ATM	
					YDN 103-1998 《 Test requirements of ATM switch》	Accredited only of: A.3.1.3 Frame structure of TC layer 4.3.2.1 physical characteristics STM—1 interface	
					YD/T 1098-2001 《Test specification for low-end router》	Accredited only of: 3.3.7 10/100BASE-T interface characteristics	
					GF015.1-1995 《Technical specification of 900MHz TDMA digital cellular Telecommunication equipment part1:SSB specification》	Accredited only of: General check and hardware switch	

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		№	Name				
54	Mobile Softswitch Equipment of digital cellular Mobile Communication Network		Part Parameters	0419 11	GB/T 13997-1999 《Technical requirement for 2048kbit/s, 8448kbit/s, 34368kbit/s, 139264kbit/s optical line terminals》	Accredited only of: 3.2.2 peak-to-peak jitter at 2M output port	
					ISO/IEC 9314 《Information Processing Systems – Fibre Distributed Data Interface (FDDI) 》	Accredited only of: characteristics of 100M Ethernet optical interface	
					3GPP TS 26.071 《Mandatory Speech Codec speech processing functions AMR Speech Codec; General Description》	Accredited only of: 4 multi-rate speech coder, 9 low rate background and noise encoding mode	
					3GPP TS 25.415 《UTRAN Iu interface user plane protocols》	Accredited only of: 6.5.3 adaptive multi-rate of UMTS-AMR	
					3GPP TS 29.415 《Core Network Nb Interface User Plane Protocols》	Accredited only of: 4.1.1 – Nb interface multi-rate speech coder	
					3GPP TS 29.414 《Core Network Nb Data Transport and Transport Signalling 》	Accredited only of: 6 ATM bearer UMTS_AMR convert to IP bearer UMTS AMR of Nb Interface	

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		№	Name				
54	Mobile Softswitch Equipment of digital cellular Mobile Communication Network		Part Parameters	0419 11	3GPP TS 25.414 《UTRAN Iu interface data transport and transport signaling》	Accredited only of: 5 ATM bearer UMTS_AMR convert to TDM bearer PCM of Nb Interface	
					3GPP TS 23.002 《Network architecture》	Accredited only of: 4.1.2.1.2 3G AMR convert to 2G AMR	
					3GPP TS 22.002 《Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)》	Accredited only of: 3.1.1 data service	
					3GPP TS 23.205 《Bearer-independent circuit-switched core network Stage 2》	Accredited only of: 6 bearer establishment and release、TDM circuit continuity,8.1 Intra-MSC SRNS Relocation, 14.4 conversion between In band DTMF Tone and Out-of-Band DTMF	
					3GPP TS 22.082 《Call Forwarding (CF) supplementary services – Stage 1》	Accredited only of: 1.3, 2.3, 3.3 Call Forwarding	
					3GPP TS 22.088 《Call Barring (CB) Supplementary Services – Stage 1》	Accredited only of: 2.3 Call Barring	

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
54	Mobile Softswitch Equipment of digital cellular Mobile Communication Network		Part Parameters	0419 11	3GPP TS 22.083 《Call Waiting (CW) and Call Holding (HOLD) Supplementary Services – Stage 1》	Accredited only of: 2.3 Call Waiting	
					3GPP TS 22.084 《 MultiParty (MPTY) supplementary services Stage 1》	Accredited only of: 1.3 MultiParty (MPTY) supplementary services	
					3GPP TS 23.153 《 Out of band transcoder control Stage 2》	Accredited only of: 5.4.4 TrFO break, 6.1 TrFO	
					3GPP TS 28.062 《 Inband Tandem Free Operation (TFO) of speech codecs Service description Stage 3》	Accredited only of: 4.2 TFO	
					3GPP 29.232 《Media Gateway Controller (MGC) – Media Gateway (MGW) Interface Stage 3》	Accredited only of: 14.1 create and maintain the connection with MSC Server and resource management	
55	Softswitch Equipment	1	routine test	0419 14	YD/T 1243.1-2002 《Technical specification for IP trunk media gateway》		
		2	interface parameter		GB/T 7611-2001 《Characteristics of the electrical interface at hierarchical bit rate for digital network》 YD/T 1156-2001 《Test specification for High-End Router》		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
55	Softswitch Equipment	3	protocol test	0419 14	GB/T 17904.1-1999 《ISDN user-network interface data link layer specification and conformance testing method Part 1:User-network interface data link layer specification》 YD/T 1292-2003 《Technical specification for media gateway control protocol based on H.248》 YD/T 1243.1-2002 《Technical specification for IP truck media gateway》 RFC 3057 《ISDN User Adaptation Layer (IUA)》 YD/T 1072-2000 《Testing method for IP telephony gateway》		
		4	communications flow		YD/T 1243.1-2002 《Technical specification for IP truck media gateway》		
		5	network management test		YD/T 1243.1-2002 《Technical specification for IP truck media gateway》		
		6	performance test		YD/T 1243.1-2002 《Technical specification for IP truck media gateway》		
		7	basic functions		YD/T 1243.1-2002 《Technical specification for IP truck media gateway》		
		8	security		YD/T 1243.1-2002 《Technical specification for IP truck media gateway》		
		9	Network synchronization test		YD/T 1243.1-2002 《Technical specification for IP truck media gateway》		
		10	Environment test		YD/T 1243.1-2002 《Technical specification for IP truck media gateway》		
		56	Electronics Product (EMC)		1	Electrostatic discharge immunity test	1207

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
56	Electronics Product (EMC)	2	Radiated, radio-frequency, electromagnetic field immunity test	1207	GB/T 17626.3-2006 Electromagnetic compatibility- Testing and measurement techniques-Radiated, radio-frequency, electromagnetic field immunity test		
		3	Electrical fast transient / burst immunity test		GB/T 17626.4-1998 Electromagnetic compatibility- Testing and measurement techniques- Electrical fast transient / burst immunity test		
		4	Surge immunity test		GB/T 17626.5-1998 Electromagnetic compatibility- Testing and measurement techniques- Surge immunity test YD/T 993-2006 The technical requirements and test methods of overvoltages and overcurrents resistibility for telecommunication terminal equipment		
		5	Immunity to conducted disturbances, induced by radio-frequency fields	1207	GB/T 17626.6-1998 Electromagnetic compatibility- Testing and measurement techniques- Immunity to conducted disturbances, induced by radio-frequency fields		
		6	Power frequency magnetic field immunity test	1207	GB/T 17626.8-2006 Electromagnetic compatibility- Testing and measurement techniques- Power frequency magnetic field immunity test		
		7	Voltage dips, short interruptions and voltage variations immunity test	1207	GB/T 17626.11-1998 Electromagnetic compatibility Testing and measurement techniques Voltage dips, short interruptions and voltage variations immunity test		
		8	harmonic current emissions	1207	GB 17625.1-2003 Electromagnetic compatibility - Limits-Limits for harmonic current emission(equipment input current \leq 16A per phase)		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
56	Electronics Product (EMC)	9	voltage fluctuations and flicker	1207	GB 17625.2-2007 Electromagnetic compatibility (EMC)-Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16A per phase and not subject to conditional connection		
			All Parameter		YD/T 993-2006 The technical requirements and test methods of overvoltages and overcurrents resistibility for telecommunication terminal equipment		
		1	Power frequency magnetic field		GB/T 17799.1 - 1999 Electromagnetic compatibility—Generic standards- - Immunity for residential, commercial and light-industrial environments		
		2	Radiated electromagnetic fields				
		3	ESD				
		4	Radiated common mode				
		5	Electrical fast transient/burst immunity				
		6	Surges				
		7	Voltage dips				
		8	Voltage Interruptions				
		1	Power frequency magnetic field test			GB/T 17799.2 - 2003 Electromagnetic compatibility—Generic standards- - Immunity for industrial environments	
		2	Radiated electromagnetic fields test				
		3	ESD				
		4	Radiated common mode				
		5	Electrical fast transient/burst immunity				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
56	Electronics Product (EMC)	6	Surgers	1207	GB/T 17799.2 – 2003 Electromagnetic compatibility—Generic standards- - Immunity for industrial environments		
		7	Voltage dips				
		8	Voltage Interruptions				
		1	Radiated Emission				
		2	Conducted Emission				
		3	Harmonic current emissions				
		4	Voltage fluctuations and flicker				
		1	Radiated Emission			1207	GB/T 17799.3 – 2001 Electromagnetic compatibility—Generic standards- - Emission standard for residential, commercial and light-industrial environments
		2	Conducted Emission				
		3	Harmonic current emissions				
		4	Voltage fluctuations and flicker				
		1	Radiated Emission	1207	GB/T 17799.4 – 2001 Electromagnetic compatibility—Generic standards- - Emission standard for industrial environments		
		2	Conducted Emission				
		3	Harmonic current emissions				
		1	1.2/50 μ s— 8/20 μ s Combination Wave; 30kV—15kA	1207	YD/T 1235.1-2002 《Performance requirements for surge protective devices connected to low-voltage distribution systems of telecommunication stations/sites》 YD/T 1235.2-2002 《Testing methods for surge protective devices connected to low-voltage distribution systems of telecommunication stations/sites》		
		2	8/20 μ s Current wave shape; 30kA				
3	10/350 μ s Current wave shape; 1200A						
4	10/1000 μ s Current wave shape ; 400A						

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			№	Name				
57	Wireless Base Station (Fixed and Mobile)	EMC Performance of GSM Fixed Base Stations、 Repeater		All Parameters	1207	YD 1139-2006<Requirement and Measurement Methods of Electromagnetic Compatibility for 900/1800MHz TDMA Digital Cellular Telecommunications System Part 2:Base Station and Ancillary Equipment>		
		EMC Performance of CDMA Fixed Base Stations、 Repeater				YD 1169.2-2001 <Requirement and Measurement Methods of Electromagnetic Compatibility for 800MHz CDMA Digital Cellular Telecommunications System Part 2:Base Station and Ancillary Equipment>		
58	Electromagnetic Compatibility for Fixed Radio Links and ancillary equipment			All Parameters	1207	YD 1138-2006Electromagnetic Compatibility Requirement and measurement methods for Fixed Radio Links and ancillary equipment		
59	Telecommunication terminal equipment			All Parameters	1207	GB/T 17618-1998 Information technology equipment- Immunity characteristics- Limits and methods of measurement GB 9254-1998 Information technology equipment-Radio disturbance characteristics-Limits and methods of measurement YD/T 968-2002 Limits and methods of measurement of electromagnetic compatibility for telecommunication terminal equipment		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
59	Telecommunication terminal equipment	1	Components General requirement	1207	YD/T 965-1998 The Safety requirement and test method for telecommunication terminal equipment		
		2	Power interface				
		3	Appliance inlets				
		4	Transformers				
		5	Thermal controls				
		6	Capacitors bridging insulation				
		7	High voltage Components				
		8	Markings				
		9	instructions				
		10	power supply label				
		11	AC power distribution systems				
		12	Connection by plugs and sockets				
		13	Fuse identification				
		14	Wiring terminals				
		15	Controls and indicators				
		16	IT power distribution systems				
		17	Thermostats and other regulating devices				
		18	Securing of parts				
		19	lithium Batteries				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
59	Telecommunicati on terminal equipment	20	Protection in operator access areas	1207	YD/T 965-1998 The Safety requirement and test method for telecommunication terminal equipment		
		21	High temperature warning				
		22	Protection in restricted access locations				
		23	Protection in service access areas				
		24	Disconnection indicator				
		25	Stability				
		26	Mechanical strength and Stress relief test				
		27	Design and construction				
		28	enclosure				
		29	Safety interlocks				
		30	Access to energized parts				
		31	Provisions for earthing and bonding				
		32	Disconnect devices				
		33	Overcurrent and earth fault protection in primary circuits				
		34	creepage distances				
		35	Clearances				
36	distances through insulation						
37	Wiring						

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
59	Telecommunication terminal equipment	38	Circuits requirement	1207	YD/T 965-1998 The Safety requirement and test method for telecommunication terminal equipment		
		39	Electrical insulation				
		40	Thermal requirements				
		41	Leak current				
		42	Abnormal operating and fault conditions				
		43	Resistance to fire				
		44	Insulation material				
		45	overvoltages and overcurrents resistibility	1207	YD/T 993-2006The technical requirements and test methods of overvoltages and overcurrents resistibility for telecommunication terminal equipment		
60	900/1800MHZ TDMA Mobile and portable radio and ancillary equipment		All Parameters	1207	YD 1032-2000 Limits and Measurement Methods of Electromagnetic Compatibility for 900/1800MHz Digital Cellular Telecommunications System Part1: Mobile Station and Ancillary Equipment		
61	EMC Performance of CDMA Mobile Stations		All Parameters	1207	GB19484.1-2004 <Requirement and Measurement Methods of Electromagnetic Compatibility for 800MHz CDMA Digital Cellular Telecommunications System Part 1:Mobile Station and Ancillary Equipment>YD 1169.1-2001 <Requirement and Measurement Methods of Electromagnetic Compatibility for 800MHz CDMA Digital Cellular Telecommunications System Part 1:Mobile Station and Ancillary Equipment>		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
61	EMC Performance of CDMA Mobile Stations	1	Battery	0419 14	GB/T 18287-2000 《General Specification of Lithium-ion battery for cellular phone》 GB/T 18288-2000 《General Specification of nickel-metal battery for cellular phone》 GB/T 18289-2000 《General Specification of nickel-cadmium battery for cellular phone》		
		2	Safety	1207	YD/T 965-1998 The Safety requirement and test method for telecommunication terminal equipment GB4943-2001 《Information technology equipment –Safety》		
62	The Equipment of the power for network (EMC)		All Parameters	1207	YD/T 983-1998 Limits and methods of measurement of electromagnetic compatibility for telecommunication power supply equipment		
			All Parameters	1207	EN 300 386 V1.3.3 (2005-04), Electromagnetic compatibility and Radio spectrum Matters (ERM);Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements		
63	Information technology equipment		All Parameters	1207	GB 9254-1998 Information technology equipment- Radio disturbance characteristics- Limits and methods of measurement GB/T 17618-1998 Information technology equipment- Immunity characteristics- Limits and methods of measurement GB 17625.1-2003 Electromagnetic compatibility - Limits-Limits for harmonic current emission(equipment input current≤16A per phase)		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
64	Communication Measurement Meter		All Parameters	1207	YD/T 991-1998 Limits and methods of measurement of electromagnetic compatibility for digital transmission analyzers		
65	Wireless Terminal (GSM Mobile Station, CDMA Mobile Station, Wireless Phone, 3G Mobile Station)	1	Specific absorption rate (SAR)	0427	YD/T 1644.1-2007 Human exposure to radio frequency fields from handheld and body-mounted wireless communication devices—human models, instrumentation, and procedures part 1: procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300MHz to 3GHz)		
			All Parameters	0427	EN 50360–2001: Product standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones. EN 50361–2001: Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones. ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
65	Wireless Terminal (GSM Mobile Station、CDMA Mobile Station、Wireless Phone、3G Mobile Station)		All Parameters	0427	<p>IEEE 1528-2002: DRAFT Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques</p> <p>IEC 62209-1(2005): Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear(frequency range of 300 MHz to 3 GHz).</p> <p>IEEE C95.1(2005):IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields,3kHz to 300GHz.</p>		
66	Requirements and Measurement Methods of Electromagnetic Compatibility for Telecom network equipment		voltage fluctuations and flicker	1207	<p>GB 17625.2-2007 Electromagnetic compatibility (EMC)-Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current\leq16A per phase and not subject to conditional connection</p>		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
66	Requirements and Measurement Methods of Electromagnetic Compatibility for Telecom network equipment		All parameters	1207	GB 17625.1-2003 Electromagnetic compatibility - Limits-Limits for harmonic current emission (equipment input current \leq 16A per phase) EN300 386-2002 Electromagnetic compatibility and Radio spectrum Matters (ERM); Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements GB 19286—2003 Electromagnetic Compatibility Requirement and measurement methods for Telecommunication EN 300 386 Electromagnetic compatibility and Radio spectrum Matters (ERM);Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements		
			Part Parameters	1207	GR—1089— CORE 《Electromagnetic Compatibility and Electrical Safety –Generic Criteria for Network Telecommunications Equipment》 October 2002	Not accredited Radiated Immunity Frequency less than 80MHz and more than10GHz; Conducted Immunity Frequency less than 0.15MHz and more than 80MHz	

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		№	Name				
67	Industrial, scientific and medical(ISM) equipment	1	Electrostatic discharge immunity test	1207	GB/T 17626.2-2006 Electromagnetic compatibility- Testing and measurement techniques- Electrostatic discharge immunity test		
		2	Radiated, radio-frequency, electromagnetic field immunity test		GB/T 17626.3-2006 Electromagnetic compatibility- Testing and measurement techniques-Radiated, radio-frequency, electromagnetic field immunity test		
		3	Power frequency magnetic field immunity test		GB/T 17626.8-2006 Electromagnetic compatibility- Testing and measurement techniques- Power frequency magnetic field immunity test		
			Part Parameters	1205	GB 4824-2004 Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical(ISM) radio frequency equipment	Not accredited of 5.1.2.3 "Click"	

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
67	Industrial, scientific and medical(ISM) equipment		All Parameters	1205	GB 9254-1998 Information technology equipment- Radio disturbance characteristics- Limits and methods of measurement GB/T 17626.4-1998 Electromagnetic compatibility- Testing and measurement techniques- Electrical fast transient / burst immunity test GB/T 17626.5-1998 Electromagnetic compatibility- Testing and measurement techniques- Surge immunity test GB/T 17626.6-1998 Electromagnetic compatibility- Testing and measurement techniques- Immunity to conducted disturbances, induced by radio-frequency field GB/T 17626.11-1998 Electromagnetic compatibility Testing and measurement techniques Voltage dips, short interruptions and voltage variations immunity test		
68	WLAN Devices		All Items	0419 14	《Wi-Fi 802.11 with WPA2, WPA, and WEP System Interoperability Test Plan with ASD Test Engine For IEEE 802.11a, b, & g Devices Version 1.4》 2007 《WMM System Interoperability Test Plan with Test Engine V1.4》 2007 《WMMTM Power Save System Interoperability Test Plan Version 1.1.5》 2007		
		1	General Configurability Test	0419	802.11n (Draft 2.0) System Interoperability Test Plan		
		2	Security Configurability Test	14			

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices	3	802.11n Configurability Test	0419 14	802.11n (Draft 2.0) System Interoperability Test Plan		
		4	AP Out of the Box (OOB)				
		5	AP WPA2 Initial Ping Interoperability Test				
		6	AP & STA Association & Throughput, Honoring NAV and PLCP				
		7	AP & STA Association and Throughput using WPA2- Enterprise with TLS				
		8	AP & STA Association and Throughput using WPA2- PSK				
		9	AP & STA Association and Throughput using Replay Counter Processing				
		10	AP & STA Association and Throughput using Mixed Mode WPA/WPA2 Enterprise with TLS and Message 3 Validation				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices	11	AP & STA Association and Throughput using Mixed Mode WPA/WPA2-PSK	0419 14	802.11n (Draft 2.0) System Interoperability Test Plan		
		12	Re-association/Bridging Tests				
		13	Multicast with WPA2-PSK Only Mode and WPA/WPA2-PSK Mixed Mode				
		14	Pre-authentication				
		15	PMK Caching				
		16	WPA Specific Countermeasures				
		17	WPA Negative Tests – No Association with a WEP or No Encryption STA				
		18	WPA Negative Test Cases – No Association with a WPA2-Enterprise with TLS and WPA2-PSK Configured Access Point				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices	19	802.11d and 802.11h Testing	0419 14	802.11n (Draft 2.0) System Interoperability Test Plan		
		20	Extended EAP Tests (Enterprise APs Only) – Category 1 and 2 APs				
		21	Extended EAP Tests (Enterprise APs Only) – Category 3 and 2 APs				
		22	Dual Band APs				
		23	Basic WMM Association and Transmission				
		24	Traffic Differentiation in Single BSS with 2 802.11n STAs				
		25	Traffic Differentiation in Single BSS with WMM STA				
		26	Traffic Differentiation in Single BSS with Legacy Non-WMM STA				
		27	APUT “No Acknowledgement” Test				
		28	Traffic Forwarding in Single BSS				
		29	Basic Association in 802.11n Environment				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices	30	Ability to Receive 1 and 2 Spatial Streams	0419 14	802.11n (Draft 2.0) System Interoperability Test Plan		
		31	MIMO Power Save Operation				
		32	A-MPDU Aggregation when the AP is the Recipient with and without WPA2-PSK				
		33	A-MSDU Aggregation when AP is the Recipient				
		34	Overlapping BSS – 2.4 GHz				
		35	Overlapping BSS – 5 GHz				
		36	Greenfield Operation				
		37	Short GI Operation				
		38	Overlapping BSS on Extension Channel				
		39	HT Duplicate Mode (MCS Index = 32)				
		40	AP Concurrent Operation in 2.4 and 5 GHz Frequency Bands				
		41	RIFS Test				
42	STA Out of the Box (OOB)						

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices	43	STA WPA2 Initial Ping Interoperability Test	0419 14	802.11n (Draft 2.0) System Interoperability Test Plan		
		44	AP & STA Association & Throughput, Honoring NAV and PLCP				
		45	AP & STA Association & Throughput using Fragmentation				
		46	Mixed 802.11b/g Interoperability STA Testing				
		47	Mixed 802.11b/g Interoperability STA Testing with WPA-PSK				
		48	Mixed 802.11b/g Interoperability STA Testing with WEP and PSK Security				
		49	Mixed 802.11b/g Interoperability STA Testing with WPA-Enterprise				
		50	AP & STA Association and Throughput using WPA2-PSK				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices	51	AP & STA Association and Throughput using WPA2-Enterprise	0419 14	802.11n (Draft 2.0) System Interoperability Test Plan		
		52	AP & STA Association and Throughput with Replay Counter Processing				
		53	AP & STA Association and Throughput using WEP				
		54	AP & STA Association and Throughput using WPA2 with Fragmentation				
		55	Broadcast/Multicast Transmission/Reception with WPA2-PSK only Mode and WPA/WPA2-PSK Mixed Mode				
		56	Pre-authentication				
		57	PMK Caching				
		58	WPA Specific Countermeasures – Legacy WPA Only Mode				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices	59	WPA Specific Countermeasures – WPA2/WPA Mixed Mode	0419 14	802.11n (Draft 2.0) System Interoperability Test Plan		
		60	WPA Specific Countermeasures – Non-association with an AP not using WPA2				
		61	WPA Specific Countermeasures – Non-association with PSK-Confabulated STA				
		62	WPA Specific Countermeasures – Non-association with TLS-Configured STA				
		63	802.11h Testing – Spectrum Management Bit				
		64	802.11h Testing – Channel Switch Test				
		65	Extended EAP Tests (Enterprise STAs Only) – Category 1 and 2 STAs				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices	66	Extended EAP Tests (Enterprise STAs Only) – Category 3 and 2 STAs	0419 14	802.11n (Draft 2.0) System Interoperability Test Plan		
		67	Dual Band Roaming Tests for Dual Band STAs with WPA-PSK				
		68	Traffic Differentiation in Single BSS with 802.11n STA				
		69	Traffic Differentiation in Single BSS with 2 802.11n STAs				
		70	Traffic Differentiation in Single BSS with WMM STA				
		71	Traffic Differentiation in Single BSS with Legacy Non-WMM STA				
		72	Test ACM Bit Conformance				
		73	Test the AC Parameter Modification				
		74	TXOP Limit Test				
		75	STAUT “No Acknowledgement” Test				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices	76	Basic Association in 802.11n Environment	0419 14	802.11n (Draft 2.0) System Interoperability Test Plan		
		77	Ability to Receive 1 and 2 Spatial Streams				
		78	A-MDPU Aggregation when the STA is the Recipient				
		79	A-MSDU Aggregation when the STA is the Recipient				
		80	Overlapping BSS – 2.4 GHz				
		81	Overlapping BSS – 5 GHz				
		82	Greenfield Operation				
		83	Short GI Operation				
		84	Overlapping BSS on the Extension Channel				
		85	HT Duplicate Mode (MCS = 32)				
		86	STA RIFS Test				
		87	IBSS Active Scanning Test				
		88	IBSS Passive Scanning Tests				
		89	IBSS WEP On Tests				
90	IBSS WEP Off Tests						
91	IBSS Rejoin Tests						

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices	92	Check APUT's WPS Protocol frame format and correctness of self-generated SSID and PSK	0419 14	Wi-Fi WPS Test Plan		
		93	Configure APUT using PIN method through a WLAN external Registrar				
		94	Configure APUT using PIN method through a wired external registrar				
		95	Configure APUT to use open networking (no security) using PIN method through a wired external registrar and add a STA using internal registrar				
		96	Check PBC Walk Time is correctly implemented				
		97	Configure APUT using NFC Method with password token through a WLAN external registrar				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices	98	Manually configure APUT and add device using PIN method, and then add device using PBC method	0419 14	Wi-Fi WPS Test Plan		
		99	Add device using PIN method, and then add device using PBC method to OOB APUT				
		100	Add devices using multiple external Registrars and internal Registrar				
		101	Make APUT generate auto-configuration and manually add a legacy device, which uses only WPA-Personal (not WPA2-Personal)				
		102	Add device using NFC Method with password token				
		103	Add device using NFC Method with configuration token				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices	104	Add to AP using PIN Config method through WLAN External Registrar	0419 14	Wi-Fi WPS Test Plan		
		105	Add to AP using PBC Config method through internal Registrar				
		106	Add to AP using PIN Config method through WLAN external Registrar				
		107	Add to AP using PIN Config method and PASS PHRASE through wired external registrar				
		108	Add to AP using PIN method and open networking setting through WLAN external Registrar				
		109	AP using PBC method and open network settings through internal Registrar				
		110	2 minute timeout with multiple push button events for PBC Config method				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices	111	Overlapped PBC config sessions	0419 14	Wi-Fi WPS Test Plan		
		112	Add to AP using NFC Method with password token through internal registrar				
		113	Add to AP using NFC Method with configuration token through internal registrar				
		114	Manually configure AP, and then enrol with Registrar using PIN Config method				
		115	Configure the AP to use PASSPHRASE using PIN				
		116	Configure the AP to use open networking settings using PIN				
		117	Registrar configuring AP using registrar defaults and add device using PIN method				
		118	Registrar enrolling configured open AP and add device using PIN method				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices	119	Registrar adding device using NFC Method with password token	0419 14	Wi-Fi WPS Test Plan		
		120	Registrar adding device using NFC Method with configuration token				
			All Parameters	0419 14	GB 15629.11-2003 Information technology - Telecommunications and information exchange between systems-Local and metropolitan area networks - Specific requirements - Part 11:Wireless LAN Medium Access Control(MAC) and Physical Layer (PHY) Specifications, 2003/05 IEEE 802.11g-2003 IEEE Standard for Information technology - Telecommunications and information exchange between systems-Local and metropolitan area networks - Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: Further Higher - Speed Physical Layer Extension in the 2.4 GHz Band IEEE 802.11d-2001 IEEE Standard for Information technology -Telecommunications and information exchange between systems- Local and metropolitan area networks - Specific requirements- Part 11: Wireless lan medium access control (MAC) and physical layer (PHY) specifications: Specification for operation in additional regulatory domains		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
68	WLAN Devices		All Parameters	0419 14	<p>IEEE 802.11h-2003 IEEE Standard for Information Technology - Telecommunications and Information Exchange Between Systems-Local and metropolitan area networks -Specific Requirements- Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Spectrum and Transmit Power Management Extensions in the 5GHz band in Europe;</p> <p>IEEE 802.11i-2004 IEEE Standard for Information technology - Telecommunications and information exchange between systems-Local and metropolitan area networks - Specific requirements- Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: Medium Access Control (MAC) Security Enhancement; Wi-Fi WMM System Interoperability Test Plan V1.2, 2005;</p> <p>Wi-Fi WMM Power Save System Inter- operability Test Plan V1.0, 2005</p> <p>Wi-Fi Mobile Converged Devices RF Certification Test Document V0.14, 2006/02 Wi-Fi 802.11 with WPA2, WPA, and WEP System Interoperability Test Plan For IEEE 802.11a, b & g Devices V1.1.5,2006</p>		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
69	Electromagnetic Shielding Equipment		All Parameters	0428	Measurement method for shielding effective of high performance shielding room, GB 12190-1990; General technical requirement and test method for military electromagnetic shielding room, 3039-97 (GJBz 20219-94)		
70	Information technology equipment –Safety		All Parameters	1207	GB4943-2001 《Information technology equipment –Safety》 YD/T 965-1998 The Safety requirement and test method for telecommunication terminal equipment		
71	Electromagnetic Compatibility for Wideband radio communication equipment(Bluetooth/WLAN)		All Parameters	1207	EN 301 489-17: 2002 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Wideband data and HIPERLAN equipment ITU-R SM329: 2002 SPURIOUS EMISSIONS RECOMMENDATION ITU-R SM.329-10 Unwanted emissions in the spurious domain		
72	Cordless Telephone		All Parameters	1207	GB19483-2004 Requirements and Measurement Methods of Electromagnetic Compatibility for Cordless Telephone YD/T 1103-2001 Requirements and Measurement Methods of Electromagnetic Compatibility for Cordless Telephone		
		1	Safety	1207	YD/T 965-1998 The Safety requirement and test method for telecommunication terminal equipment		
		2	overvoltages and overcurrents resistibility	1207	YD/T 993-2006The technical requirements and test methods of overvoltages and overcurrents resistibility for telecommunication terminal equipment		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
73	GSM Repeater		ALL Items	0419 11	<p>YD/T952-1998 《Technical requirements and measurement methods for 900MHz RF repeater》</p> <p>YD/T883-1999 《900MHz/1800MHz TDMA Digital Cellular Mobile Telecommunication Network Technical Requirement of Base Station Subsystem and Test Methods of Radio Characters》</p> <p>GB15842-1995 《Mobile radio equipment. Safety requirements and testing methods》</p> <p>YD/T 664-94 《Quality Classify Standard for 2GHz Digital Radio Tranceiver》</p> <p>GB4943-2001 《Safety of information technology equipment》</p> <p>ETS 300 609-4 Digital cellular telecommunications system (Phase 2 & Phase2+); Base Station System (BSS) equipment specification; Part 4: Repeaters (GSM 11.26 version 5.2.1)</p>		
		1	Working frequency				
		2	Nominal max output power (including frequency shift amplification)	0419 11	YD/T 1337-2005 Technical requirements and testing methods for 900MHz/1800MHz repeater for TDMA digital cellular mobile communication network		
		3	Maximum amplification and error				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
73	GSM Repeater	4	Amplification adjustment range	0419 11	YD/T 1337-2005 Technical requirements and testing methods for 900MHz/1800MHz repeater for TDMA digital cellular mobile communication network		
		5	Amplification adjustment step and step error(optional)				
		6	Automatic level control (ALC) range				
		7	Frequency error				
		8	Spectrum due to modulation				
		9	Spectrum due to switching				
		10	Maximum input level				
		11	Ratio of forward and reverse				
		12	In band ripple				
		13	Noise figure				
		14	Input/Output VSWR				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
73	GSM Repeater	15	Transmission delay	0419 11	YD/T 1337-2005 Technical requirements and testing methods for 900MHz/1800MHz repeater for TDMA digital cellular mobile communication network		
		16	Spurious emission				
		17	Product due to inter-modulation				
		18	Selectivity				
		19	Amplification of out of band				
74	CDMA Repeater		ALL Items	0419 11	YD/T 1241-2002 《800MHz CDMA digital cellular mobile telecommunication network technical requirements and test methods for repeater》 YD/T 664-94 《Quality Classify Standard for 2GHz Digital Radio Tranceiver》		
75	PDH Microwave Telecommunication Systems		All Items	0419 11	GB/T 13503-1992 《Generic specification for digital microwave radio relay communication equipment》 GB/T 15841-1995 《Networking specification for digital microwave communication equipments 2~8GHz digital microwave transceiver》 YD/T 830-1996 《Requirement and Measurement Methods of Digital Radio Relay Systems, 2×34Mbit/s》 YD/T 843-1996 《Requirement and Measurement Methods of Digital Radio Relay Systems, Medium and low capacity at Ku》		

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		№	Name				
75	PDH Microwave Telecommunication Systems		All Items	0419 11	<p>GB/T 7611-2001 Characteristics of the electrical interface at hierarchical bit rate for digital network</p> <p>YD/T 1054-2000 《Access network technical specification-Integrated digital loop carrier (LDLC)》 信部无[2002]705 Capacity series and radio-frequency channel arrangements in the 1—30GHz range for digital radio- relay systems ETS 300 431 V1.4.1 《Transmission and Multiplexing (TM) ; Digital fixed point-to-point radio equipment operation in the frequency range 24,25GHz to 29,50GHz》</p> <p>EN 300 234 V1.2.1 《Transmission and Multiplexing(TM); Digital Radio Relay Systems (DRRS); High capacity DRRS carrying 1×STM-1signals and operating in frequency bands with about 30MHz channel spacing and alternated arrangements》</p> <p>EN 300 430 V1.1.2 《Transmission and Multiplexing(TM); Digital Radio Relay Systems (DRRS); High capacity DRRS carrying 1×STM-1signals and operating in 18GHz frequency bands with channel spacing of 55MHz》</p> <p>EN300 198 V1.2.2 《Transmission and Multiplexing(TM); Digital Radio Relay Systems (DRRS); Parameters for DRRS for the transmission of digital signals and analogue videos signals operating at 23GHz》</p>		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
76	SDH Microwave Telecommunication Systems		All Items	0419 11	<p>信部无[2002]705 Capacity series and radio-frequency channel arrangements in the 1—30GHz range for digital radio-relay systems YD/T 909-1997 《General Technical Requests of STM-1 SDH Microwave Telecommunication Systems for 4~11 GHz》 YD/T 953-1998 《General technical specifications of 2×STM-1SDH microwave telecommunication systems4~11GHz》 YD/T 830-1996 《Requirement and Measurement Methods of Digital Radio Relay Systems,2×34Mbit/s》 GB/T 15941-1995 《Requirements for synchronous digital hierarchy (SDH) optical fiber cable line systems of national public telecommunication network》 G.B/T 7611-2001 《Characteristics of the electrical interface at hierarchical bit rate for digital network》 EN 300 234 V1.2.1 《Transmission and Multiplexing(TM); Digital Radio Relay Systems (DRRS); High capacity DRRS carrying 1×STM-1signals and operating in frequency bands with about 30MHz channel spacing and alternated arrangements》 EN300 198 V1.2.2 《Transmission and Multiplexing(TM); Digital Radio Relay Systems (DRRS); Parameters for DRRS for the transmission of digital signals and analogue videos signals operating at 23GHz》</p>		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
76	SDH Microwave Telecommunication Systems		All Items	0419 11	<p>EN 300 639 V1.3.1 《Fixed Radio Systems ; point-to-point equipment ; Sub-STM-1 digital radio operating in the 13GHz,15 GHz and 18 GHz frequency bands with about 28MHz co-polar and 14MHz cross-polar channel spacing》</p> <p>EN 300 430 V1.1.2 《Transmission and Multiplexing(TM); Digital Radio Relay Systems (DRRS); High capacity DRRS carrying 1×STM-1signals and operating in 18GHz frequency bands with channel spacing of 55MHz 》</p> <p>ETS 300 431 V1.4.1 《Transmission and Multiplexing(TM); Digital fixed point-to-point link equipment operating in the frequency range 24,25 GHz to 29,50GHz》</p> <p>EN 300 197V1.2.2 《Transmission and Multiplexing(TM); Digital Radio Relay Systems (DRRS); Parameters for DRRS for the transmission of digital signals and analogue video signals operating at 38GHz》</p>		
77	GSM Digital Cellular Mobile Telecommunications Network BTS		All Items	0419 11	<p>YD/T883-1999 《900MHz/1800MHz TDMA Digital Cellular Mobile Telecommunication Network Technical Requirement of Base Station Subsystem and Test Methods of Radio Characters》</p> <p>IEC60950 1999-04 《Safety of information technology equipment》</p>		
		1	Safety	1207	GB4943-2001 《Information technology equipment –Safety》		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
78	CDMA Digital Cellular Mobile Telecommunications Network BTS		All Items	0419 11	YD/T 1047-2000 800MHz 《Test Specification for 800MHz CDMA Digital Cellular Mobile Telecommunications Network: Base Station Subsystem》 YD/T1029-1999 《Technical Specification of 800MHz CDMA Digital Mobile Communication System :BSS Part》 IEC60950 1999-04 《Safety of information technology equipment》		
		1	Safety	1207	GB4943-2001 《Information technology equipment –Safety》		
79	Information technology and telecommunications equipment airborne noise		All parameters	0419 11	GB/T 18313-2001 (idt ISO 7779:1999)Acoustics- Measurement of airborne noise emitted by information technology and telecommunications equipment		
80	GSM850MHz/Wireless Communication Terminal		All parameters	0419 11	FCC Code CFR47 Part 22		
81	GSM1900MHz/Wireless Communication Terminal		All parameters	0419 11	FCC Code CFR47 Part 24		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
82	Wireless Telecommunication equipment		All parameters	1207	<p>EN 300 339 Electromagnetic compatibility and Radio spectrum Matters (ERM); General ElectroMagnetic Compatibility (EMC) for radio communications equipment</p> <p>EN 301 489-1 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements</p> <p>EN 301 489-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 2: Specific conditions for radio paging equipment</p> <p>EN 301 489-3 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz</p> <p>EN 301 489-4 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment and services</p>		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
82	Wireless Telecommunication equipment		All parameters	1207	<p>EN 301 489-5 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility(EMC) standard for radio equipment and services; Part 5: Specific conditions for private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech)</p> <p>EN 301 489-6 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment</p> <p>EN 301 489-7 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)</p> <p>EN 301 489-8 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 8: Specific conditions for GSM base stations</p>		

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		№	Name				
82	Wireless Telecommunication equipment		All parameters	1207	<p>EN 301 489-9 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices</p> <p>EN 301 489-10 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 10: Specific conditions for First (CT1 and CT1+) and Second Generation Cordless Telephone (CT2) equipment</p> <p>EN 301 489-11 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 11: Specific conditions for terrestrial sound broadcasting service transmitters</p>		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
82	Wireless Telecommunication equipment		All parameters	1207	<p>EN 301 489-12 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services ; Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS)</p> <p>EN 301 489-13 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 13: Specific conditions for Citizens' Band (CB) radio and ancillary equipment (speech and non-speech)</p> <p>EN 301 489-14 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 14: Specific conditions for analogue and digital terrestrial TV broadcasting service transmitters</p> <p>EN 301 489-15 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 15: Specific conditions for commercially available amateur radio equipment</p>		

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82	Wireless Telecommunication equipment		All parameters	1207	<p>EN 301 489-16 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 16: Specific conditions for analogue cellular radio communications equipment, mobile and portable</p> <p>EN 301 489-17 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment</p> <p>EN 301 489-18 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 18: Specific conditions for Terrestrial Trunked Radio (TETRA) equipment</p> <p>EN 301 489-19 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications</p>		

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		№	Name				
82	Wireless Telecommunication equipment		All parameters	1207	<p>EN 301 489-20 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)</p> <p>EN 301 489-22 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 22: Specific conditions for ground based VHF aeronautical mobile and fixed radio equipment</p> <p>EN 301 489-23 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 23: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA) Base Station (BS) radio, repeater and ancillary equipment</p>		

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82	Wireless Telecommunication equipment		All parameters	1207	<p>EN 301 489-24 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA) for Mobile and portable (UE) radio and ancillary equipment</p> <p>EN 301 489-25 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 25: Specific conditions for CDMA 1x spread spectrum Mobile Stations and ancillary equipment</p> <p>EN 301 489-26 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 26: Specific conditions for CDMA 1x spread spectrum Base Stations, repeaters and ancillary equipment</p> <p>EN 301 489-27 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P)</p>		

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82	Wireless Telecommunication equipment		All parameters	1207	<p>EN 301 489-28 Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 28: Specific conditions for wireless digital video links YD 1312.1—2004 Requirements and Measurement Methods of Electromagnetic Compatibility for Radio Communication Equipment Part 1: Common Technical Requirements YD 1312.2—2004 Requirements and Measurement Methods of Electromagnetic Compatibility for Radio Communication Equipment Part 1: Common Technical Requirements YD 1312.3—2004 Requirements and Measurement Methods of Electromagnetic Compatibility for Radio communication equipment Part 3: Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) YD 1312.4-2004 Requirements and Measurement Methods of Electromagnetic Compatibility for Radio Communication Equipment Part4: Radio Paging System YD 1312.5—2004 Requirements and Measurement Methods of Electromagnetic Compatibility for Radio</p>		

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82	Wireless Telecommunication equipment		All parameters	1207	YD 1312.6—2004 Requirements and Measurement Methods of Electromagnetic Compatibility for Radio Communication Equipment Part 6: Available Amateur Radio Equipment YD 1312.7—2004 Requirements and Measurement Methods of Electromagnetic Compatibility for Radio Communication Equipment Part 7: Trunked Radio(TETRA) Equipment YD 1312.8—2004 Requirements and Measurement Methods of Electromagnetic Compatibility for Radio communication equipment Part 8: Short Range Devices (SRD) (9kHz~40GHz)		
83	Monitoring, security alarm system(EMC)		All parameters	1207	EN 300 386 Electromagnetic compatibility and Radio spectrum Matters (ERM);Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements		
84	Protection against overvoltages and overcurrents on telecommunication equipment		All parameters	1207	YD/T 870-1996 Technical requirements and test methods for protection against overvoltages and overcurrents on public terminal equipment YD/T 950-1998 Technical requirements and test methods for protection against overvoltages and overcurrents on telecommunication switching equipment YD/T 993-2006 Technical requirements and test methods of lightning resistibility for telecommunication terminal equipment YD/T 1082-2000 Technical requirements for the protection against overvoltages and overcurrents and the suitability in basic environment on access network equipment telecommunication		

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85	Charging equipment EMC		All parameters	1207	GB 9254-1998 Information technology equipment- Radio disturbance characteristics- Limits and methods of measurement GB/T 17618-1998 Information technology equipment- Immunity characteristics- Limits and methods of measurement		
86	GSM Mobile phone	1	SIM (Subscriber Identity Module (SIM) application toolkit)	0419 14	3GPP TS 51.010-4 3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; Mobile Station (MS) conformance specification; Part 4: Subscriber Identity Module (SIM) application toolkit conformance test specification		
		1	RF Performance	0419 14	YD/T1215-2006 900/1800 MHz TDMA Digital Mobile Cellular Core Network and Terminals (GPRS): Mobile Station		
		2	Protocol Performance				
		3	Environment Adaptability				
		4	Durability Testing				
			All parameters	0419 14	3GPP TS 51.010-1 v6.2.1 (2005-04);3rd Generation Partnership Project; Technical Specification Group GSM/EDGE Radio Access Network Digital cellular telecommunications system (Phase 2+);Mobile Station (MS) conformance specification; Part 1: Conformance specification (Release 6)ETSI EN 151 010-1 v6.2.1(2005-04)Digital cellular telecommunications system (Phase 2+);Mobile Station (MS) conformance specification; Part 1: Conformance specification (3GPP TS 51.010-1 version 6.1.0 Release 6) GCF-CC v3.18.2 (2005-06) GLOBAL CERTIFICATION FORUM-Certification Criteria		

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		№	Name				
86	GSM Mobile phone		All parameters	0419 14	<p>ETSI EN 301 511 v9.0.2 (2003-03) Global System for Mobile communications (GSM);Harmonized EN for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements under article 3.2 of the R&TTE directive (1999/5/EC)</p> <p>ETSI EN 301 419-1 v4.1.1(2000-04) Digital cellular telecommunications system (Phase 2); Attachment requirements for Global System for Mobile communications (GSM);Part 1: Mobile stations in the GSM 900 and DCS 1 800 bands;</p> <p>Access(GSM 13.01 version 4.1.1)</p> <p>EN301 419-2 V5.1.1 (2000-04) Digital cellular telecommunications system (Phase 2+);Attachment requirements for Global System for Mobile communications (GSM);High Speed Circuit Switched Data (HSCSD) Multislot Mobile Stations; Access (GSM 13.34 version 5.1.1 Release 1996)</p> <p>EN301 419-3 V5.0.2 (1999-11) Digital cellular telecommunications system (Phase 2+);Attachment requirements for Global System for Mobile communications (GSM);Advanced Speech Call Items (ASCI);Mobile Stations; Access(GSM 13.68 version 5.0.2 Release 1996)</p>		

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86	GSM Mobile phone		All parameters	0419 14	<p>EN301 419-7 V5.1.1 (2000-08) Digital cellular telecommunications system (Phase 2+); Attachment requirements for Global System for Mobile communications (GSM); Railways Band (R-GSM); Mobile Stations; Access (GSM 13.67 version 5.1.1 Release 1996)</p> <p>ETSI EN 301 420 v4.0.1 (1999-12) Digital cellular telecommunications system (Phase 2); Attachment requirements for Global System for Mobile communications (GSM); Mobile stations in the DCS 1 800 band and additional GSM 900 band; Telephony (GSM 13.02 version 4.0.1)</p> <p>ETSI EN 300 607-4 V5.1.1 (2000-08) Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 4: SIM Application Toolkit conformance specification (GSM 11.10-4 version 5.1.1 Release 1996)</p> <p>OMA-IOP-ETS-MMS-V1_2_1-20040716-A Enabler Test Specification for MMS 1.2</p> <p>YD/T884-1996 900MHz TMDA Digital Cellular mobile telecommunication network mobile station requirements and test method</p> <p>GB/T 18287-2000 General Specification of Lithium-ion battery for cellular phone</p> <p>GB/T 18288-2000 General Specification of nickel-metal battery for cellular phone</p> <p>GB/T 18289-2000 General Specification of nickel-cadmium battery for cellular phone</p>		

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86	GSM Mobile phone		All parameters	0419 14	YD 1032-2000 Limits and Measurement Methods of Electromagnetic Compatibility for 900/1800MHz Digital Cellular Telecommunications System Part1: Mobile Station and Ancillary Equipment GB4943-2001 Information technology equipment –Safety YD/T 965-1998 The Safety requirement and test method for telecommunication terminal equipment		
87	Electromagnetic Radiation Environment	1	Power-frequency EMF	0427	GB 8702-1988: Regulations for electromagnetic radiation protection GB9175-1988: Hygienic standard for environmental. electromagnetic waves ICNIRP Guidelines for Limiting Exposure to Time-varying Electric, Magnetic, and Electromagnetic Fields(up to 300 GHz) HJ/T 24-1998: Technical regulations on environmental impact assessment of electromagnetic radiation produced by 500 kV ultrahigh voltage transmission and transfer power engineering	Accredited only of : Frequency less than 3GHz	
		2	RF EMF				
		3	Microwave				
88	Electrical Equipment		Electromagnetic fields parameters	0427	EN 50366-2003: Household and similar electrical appliances - Electromagnetic fields - Methods for evaluation and measurement		
89	Industrial, scientific and medical (ISM) equipment, Information technology and telecommunications equipment		All parameters	1207	TMC-TM-01-013: On-Site EMC Test Standard		

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90	Anechoic chambers	1	Shield Effective	0428	GB 12190-2006: Measurement of shielding effectiveness of high-performance shielding enclosures GJBz 20219-1994: Requirements and Measurements of shielding effectiveness of Military shielding enclosures		
		2	Site Attenuation		GB 9254-1998: Information technology equipment--Radio disturbance characteristics--Limits and methods of measurement		
		3	Site Uniformity		GB/T 17626.3-2006 Electromagnetic compatibility- Testing and measurement techniques-Radiated, radio-frequency, electromagnetic field immunity test		
91	Telecommunication Equipment (EMC)		All parameters	1207	GB/T 19287—2003 The General Immunity requirements for telecommunication equipment		
92	Broadband Wireless Access Equipments Of Metropolitan Area Networks		All parameters	0419 14	IEEE802.16-2004 《Air Interface for Fixed Broadband Wireless Access Systems》 WiMAX CS 102 001 《WiMAX Conformance specifications - Part 2: Test Suite Structure and Test Purposes for Wireless MAN™-OFDM and Wireless HUMAN™-OFDM Air Interface》 WiMAX CS 103 001 《WiMAX Conformance specifications - Part 3: Radio Conformance Tests (RCT) for WirelessMAN™-OFDM and WirelessHUMAN™-OFDM Air Interface》		

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93	Wireless Communication Equipment		RF transmit power and Receiver performance	0419 14	YD/T 1484-2006 Measurement Method for Radiated RF power and Receiver Performance of Mobile stations		
			All parameters	0419 14	CTIA Certification Program, Test Plan for Mobile Station Over The Air Performance, Method of measurement for radiated RF power and Receiver Performance, Revision 2.1, April 2005		
94	Telecommunication equipment (overvoltages and overcurrents Resistibility tests)		All parameters	0419 14	IUT-T K.44 Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents – Basic Recommendation		
95	xDSL Equipment		All Parameters	1207	YD 1244-2002 Requirement and measurement methods of electromagnetic compatibility for XDSL equipment		
96	Road vehicles		All Parameters	1207	ISO 7637-2 2004 Road vehicles-Electrical disturbances from conduction and coupling Part2: Electrical transient conduction along supply lines only		
97	Telecom Equipment Information Security	1	Router	0419 14	GB/T 18018-1999 Security Requirements for Router TMC-TM-01-014 High End Router Security Test Specification TMC-TM-01-015 Middle/Low End Router Security Test Specification		
		2	Ethernet Switch	0419 14	TMC-TM-01-016 Security Requirements for Ethernet Switching Devices TMC-TM-01-017 Security Test Specifications for Ethernet Switching Devices		

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		№	Name					
97	Telecom Equipment Information Security	3	Layer 3 Switch	0419 14	TMC-TM-01-018 Security Requirements for Ethernet Switching Devices with Routing Capability TMC-TM-01-019 Security Test Specifications for Ethernet Switching Devices with Routing Capability			
		4	IP Telephony Devices		Security Requirements of H.323 Network TMC-TM-01-020 Security Test Specifications; Part 2: H.323 Environment ETSI TS 101 888 V4.2.1 (2003-12) Security Consideration for Voice Over IP Systems NIST Special Publication 800-58 (2005-01)			
		5	Firewall		GB/T 17900-1999 Security Technical Requirements for Proxy Server GB/T 18019-1999 Security Requirements for Packet Filter Firewalls GB/T 18020-1999 Security Requirements for Application Level Firewall TMC-TM-01-021 Universal Technology Requirements and Test Approaches			
98	SIP UA/server	1	SIP Protocol Conformance	0419 14	RFC 3261: Internet Protocol, Version 6(IPv6) Specification			
		2			Messaging	ETSI TS 102 027-2 V3.1.1 2004 “Methods for Testing and Specification (MTS); Conformance Test Specification for SIP (IETF RFC 3261); Part 2: Test Suite Structure and Test Purposes (TSS&TP) “		
		3			Call Control			

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		№	Name					
99	IPv6 Host/Router	1	IP v 6 C o r e P r o t o c o l C o n f o r m a n c e	Generate IPv6 packets	0419 14	RFC 2460: IPv6 Specification		
		2		Process IPv6 packets		RFC 2461: Neighbor Discovery for IPv6		
		3		Initialize		RFC 2462: IPv6 Stateless Address Autoconfiguration		
		4		Address use		RFC 1981: Path MTU Discovery for IPv6		
		5		ICMPv6 Functions		RFC 2463: ICMPv6		
		6		Neighbor Discovery		IPv6 Ready Test Specification Version 3.8.8 “Phase-1/Phase-2 Test Specification Core Protocols 2006”		
		7		Address Architecture				
		8		Jumbograms				
100	UHF RFID Interrogators	1		Frequency accuracy	0419 14	EPC global Class-1 generation-2 UHF RFID Conformance Requirements Version 1.0.2		
		2		Data encoding				
		3		RF envelope parameters				
		4		RF envelope figure				
		5		Power-up RF envelope				
		6		Power-up RF envelope figure				
		7		Power-down RF envelope				
		8		Power-down RF envelope figure				
		9		Preamble components				
		10		FHSS RF envelope				
		11		FHSS channelization				

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100	UHF RFID Interrogators	12	Multiple-Interrogator Transmit mask	0419 14	EPC global Class-1 generation-2 UHF RFID Conformance Requirements Version 1.0.2		
		13	Dense-Interrogator Transmit mask				
		14	Transmit spectrum in multichannel environment for SSB-ASK modulation				
		15	Link Timing Parameter T ₂				
		16	Link Timing Parameter T ₃				
		17	Link Timing Parameter T ₄				
101	UHF RFID Tags	1	Frequency range	0419 14	EPC global Class-1 generation-2 UHF RFID Conformance Requirements Version 1.0.2		
		2	Demodulation capabilities				
		3	Duty cycle FM0				
		4	FM0 preamble				
		5	Duty cycle Miller				
		6	Miller preamble				
		7	Frequency variation during backscatter				
		8	Link Timing Parameter T ₁				
		9	Link timing parameters: T2 minimum value				
		10	Link timing parameters: T2 maximum value				
		11	TID memory contents				

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101	UHF RFID Tags	12	Kill operation	0419 14	EPC global Class-1 generation-2 UHF RFID Conformance Requirements Version 1.0.2		
		13	Computed CRC-16 for prewritten tags				
		14	Computed CRC-16 for rewriteable tags				
		15	Default PC value				
		16	Ready & Reply				
		17	Arbitrate				
		18	Acknowledged				
		19	Open				
		20	Secured				
		21	State transition from Acknowledged to secured				
		22	State transition from Open to Killed				
		23	State transition from Secured to Killed				
		24	State transition from Acknowledged to reply				
		25	State transition from Open to Reply				
26	State transition from Secured to Reply						
102	Type A UHF RFID Interrogators	1	Power up waveform	0419 14	ISO 18000-6: Parameters for air interface communications at 860MHz to 960MHz		
		2	Power down waveform (1)				
		3	Power down waveform (2)				

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102	Type A UHF RFID Interrogators	4	Frequency Hop Duration	0419 14	ISO 18000-6: Parameters for air interface communications at 860MHz to 960MHz		
		5	FH carrier rise and fall times				
		6	Carrier modulation pulses				
		7	Data coding and framing				
		8	Frame format				
103	Type B UHF RFID Interrogators	1	Power up waveform	0419 14	ISO 18000-6: Parameters for air interface communications at 860MHz to 960MHz		
		2	Power down waveform (1)				
		3	Power down waveform (2)				
		4	Frequency Hop Duration				
		5	FH carrier rise and fall times				
		6	Carrier modulation				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
103	Type B UHF RFID Interrogators	7	Bits coding	0419 14	ISO 18000-6: Parameters for air interface communications at 860MHz to 960MHz		
		8	Preamble detect field				
		9	Preamble				
		10	Delimiters				
		11	CRC-16 Type B				
104	WCDMA Mobile Station	1	USAT (Universal Subscriber Identity Module Application Toolkit (USAT))	0419 14	3GPP TS 31.124 3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; Mobile Equipment (ME) conformance test specification; Universal Subscriber Identity Module Application Toolkit (USAT) conformance test specification		
		1	RF Test Transmitter Characteristics Receiver Characteristics Performance requirements Requirements for support of RRM Performance requirements for HSDPA:	0419 14	3GPP TS 34.121 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment (UE) conformance specification; Radio transmission and reception (FDD); ETSI TS 134.121 ETSI EN301 908-1,2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; ETSI EN 300 607-1,2,3,4 Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification;		

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104	WCDMA Mobile Station	2	Protocol Test Idle mode operations Layer 2 Radio Resource Control RRC Elementary procedures of mobility management Circuit Switched Call Control (CC) Session Management Procedures Elementary procedure for Packet Switched Mobility Management General Tests Interoperability Radio Bearer Tests Supplementary Services Short message service (SMS) Specific features	0419 14	3GPP TS34.123-1,2,3 3rd Generation Partnership Project; Technical Specification Group Terminals; User Equipment (UE) conformance specification; ETSI TS134.123-1,2,3 3GPP TS34.108 3rd Generation Partnership Project; Technical Specification Group Terminals; Common test environments for User Equipment (UE) conformance testing ETSI TS134.108 3GPP TS34.109 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Terminal logical test interface; Special conformance testing functions ETSI TS134.109 ETSI EN 300 607-1 Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification;		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
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104	WCDMA Mobile Station	3	Audio Test Overall loss/loudness ratings Idle channel noise (handset and headset UE) Sensitivity/frequency characteristics Sidetone characteristics Stability loss Acoustic echo control Distortion Ambient Noise Rejection	0419 14	3GPP 26.132 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Narrow band (3,1 kHz) speech and video telephony terminal acoustic test specification ETSI EN 300 607-1 Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification;		
		4	USIM Test Subscription related tests Security related Tests PLMN related tests Subscription independent tests USIM service handling Electrical characteristic tests Initial communication tests Transmission protocol tests;	0419 14	3GPP TS31.121 3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification ETSI TS131.121 3GPP TS31.122 3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; USIM conformance test specification ETSI TS131.122 ETSI TS102 230 Smart cards; UICC-Terminal interface; Physical, electrical and logical test specification		

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104	WCDMA Mobile Station	5	Application Test(MMS Conformance Test) CLIENT CONFORMANCE TESTING SENDING CLIENT CONFORMANCE TESTING RECEIVING CLIENT CONFORMANCE TESTING CREATION SERVER CLIENT CONFORMANCE TESTING – TRANSMISSION MMSC TRANSACTION CLIENT TRANSACTION CLIENT B (RECIPIENT) CLIENT A-MMSC-EMAIL CLIENT B, EMAIL CLIENT A-MMSC-CLIENT B SERVER CONFORMANCE TESTING - adaptation	0419 14	OMA-IOP-ETS-MMS-V1_2_1-20040716-A Enabler Test Specification for MMS 1.2		

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105	Battery for Mobile Station	1	appearance	0419 14	GB/T 18287-2000 《General Specification of Lithium-ion battery for cellular phone》 GB/T 18288-2000 《General Specification of nickel-metal battery for cellular phone》 GB/T 18289-2000 《General Specification of nickel-cadmium battery for cellular phone》		
		2	Discharge Performance				
		3	High Temperature Performance			GB/T 18287-2000 《General Specification of Lithium-ion battery for cellular phone》	
		4	Low Temperature Performance				
		5	electric charge Keeping capability		GB/T 18287-2000 《General Specification of Lithium-ion battery for cellular phone》 GB/T 18288-2000 《General Specification of nickel-metal battery for cellular phone》 GB/T 18289-2000 《General Specification of nickel-cadmium battery for cellular phone》		
		6	Circulating Longevity				
		7	Environment				
		8	Safety Performance		GB/T 18287-2000 《General Specification of Lithium-ion battery for cellular phone》		
		9	Safety Requirement				
		10	Storage	0419 14	GB/T 18287-2000 《General Specification of Lithium-ion battery for cellular phone》 GB/T 18288-2000 《General Specification of nickel-metal battery for cellular phone》 GB/T 18289-2000 《General Specification of nickel-cadmium battery for cellular phone》		
		11	Fast Charge performance		GB/T 18288-2000 《General Specification of nickel-metal battery for cellular phone》		

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105	Battery for Mobile Station	12	Overcharge Performance	0419 14	GB/T 18288-2000 «General Specification of nickel-metal battery for cellular phone» GB/T 18289-2000 «General Specification of nickel-cadmium battery for cellular phone»		
		13	Short Circuit Protection				
		14	Label, Package, Transport and Storage			GB/T 18287-2000 «General Specification of Lithium-ion battery for cellular phone» GB/T 18288-2000 «General Specification of nickel-metal battery for cellular phone» GB/T 18289-2000 «General Specification of nickel-cadmium battery for cellular phone»	
		15	System integration considerations		IEEE 1725-2006 IEEE Standard for Rechargeable Batteries for Cellular Telephones		
		16	Cell considerations				
		17	Battery pack considerations				
		18	Host device considerations				
		19	AC/DC adapter, dc/dc adapter considerations				
		20	Total system reliability considerations				
		21	System security considerations				
		22	Validation				

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106	application level software of digital cellular mobile telecommunication network mobile stations	1.Call functions			0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station		
		1	Place a call	Originate a call				
		2		Different modes for originating a call				
		3		DTMF				
		4		Emergency call				
		5		Automatic call function				
		6	Place a call	Movement of a cursor				
		7		Enter characters				
		8		Delete designated characters				
		9		Automatic switch				
		10		Special key operations				
11	answering a call	Answer a call						

№	Name of Products, Type of materials	Items, Parameter, Types of tests			Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note	
		№	Name						
106	application level software of digital cellular mobile telecommunication network mobile stations	12	Different answering modes answering a call	Answer automatically after a given period of time	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station			
				13			Answer automatically by flip on /slide on		
				14			Answer via any keys		
		15	Call record Unanswered incoming calls	View contents of unanswered calls					
				16			Delete individual unanswered calls		
				17			Delete all unanswered calls		
				18			Extract phone numbers to directory/phone book		
							19	Call back unanswered incoming calls	

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note		
		№	Name						
106	application level software of digital cellular mobile telecommunication network mobile stations	26	Unanswered incoming calls	Send SMS/MS to already answered incoming call numbers	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station			
				27			Call record	View contents of already dialed calls	
								28	dialed calls
		29	dialed calls	Delete all already dialed calls					
				30			dialed calls	Extract phone numbers to directory/phone book	
		31	dialed calls					Call back already dialed calls	
				32				Send SMS/MS to already dialed numbers	

№	Name of Products, Type of materials	Items, Parameter, Types of tests			Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name					
106	application level software of digital cellular mobile telecommunication network mobile stations	33	Call record	Single call duration	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station		
		34		Aggregate call duration				
		35		Aggregate call duration cleared				
		36	Call duration alert tone	Single alert tone				
		37		Multiple alert tone				
		38		Adjust volume in the course of a call				
		39	Call settings	Mute function	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station		
		40		Handsfree function				
		41	SMS functions	Send SMS	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station		
		42		Ways to send SMS				
		43		Send SMS to multiple recipients				
		44		Send long SMS				

№	Name of Products, Type of materials	Items, Parameter, Types of tests			Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name					
106	application level software of digital cellular mobile telecommunication network mobile stations	45	SMS functions	receiving SMS	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station		
		46		Receive long SMS				
		47		Alarms and indications when receiving SMS				
		48	View SMS	View already sent SMS				
		49		View already edited SMS				
		50						
		51	Call settings	Newly edit and save SMS				
		52		Modify and save SMS				
		53		Automatically save SMS				
		54		Copy/forward SMS				
55	Delete SMS	Delete single SMS						

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
106	application level software of digital cellular mobile telecommunication network mobile stations	56	Delete SMS	Delete multiple SMSs	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station	
		57		Delete all SMSs			
		58	Settings of related items of SMS	Service center address of SMS			
		59		Status report of SMS			
		60		Cell broadcast			Receive SMS cell broadcast
		61	Change SMS cell broadcast channel list				
		62	MMS functions	Send MMS			
		63		Receive MMS			
		64		MMS Transaction			
		65		Create and modify MMS			
		66		View MMS			View already sent MMS
View already received MMS							

№	Name of Products, Type of materials	Items, Parameter, Types of tests			Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note			
		№	Name								
106	application level software of digital cellular mobile telecommunication network mobile stations	68	Call settings	View MMS	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station					
		69		Delete single MMS							
		70		Delete multiple MMSs							
		71		Delete all MMSs							
		72		Service center address of MMS							
		73		Effective period of MMS							
		3、System functions									
		74	Directory/phonebook	Phone number match	0420		YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station				
		75		Copy/forward between different memory media							
		76	Group operations	Edit a group	0420			YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station			
		77		Group parameter settings							
		78	Edit operations	Add a record	0420				YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station		
		79		Query records							

№	Name of Products, Type of materials	Items, Parameter, Types of tests			Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note	
		№	Name						
106	application level software of digital cellular mobile telecommunication network mobile stations	80	Directory/phonebook	Modify records	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station			
		81		Edit operations			Delete a single record		
		82					Delete all records		
		83	Indication symbols				Signal strength indication		
		84		Battery indication					
		85		Country /PLMN indication					
		86	Screen display	Wallpaper			Display and modify wallpapers		
		87					Initiate screen protection		
		88					Screen protection	Cancel screen protection	
		89	Modify picture or text of screen protection						

№	Name of Products, Type of materials	Items, Parameter, Types of tests			Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note		
		№	Name							
106	application level software of digital cellular mobile telecommunication network mobile stations	90	Screen protection	Modify waiting time of screen protection	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station				
				91			Event trigger in the status of screen protection			
		92	Screen display	Screen parameter adjustment			Adjust the contrast of MS screen			
							93	Adjust brightness of MS screen		
		94		Adjust font of MS screen						
		95		Consistency of multiple display screens						
		96	Settings of alert tones	Alarm modes			Incoming call alarm modes			
							97	Alarm modes of SMS/MMS arrival		
							98	Alarm clock alarm modes		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
106	application level software of digital cellular mobile telecommunication network mobile stations	99	Ringtone settings	Ringtone selection	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station	
		100		Group ringtones selection			
		101		Ringtone volume adjustment			
		102		Self-composed ringtones			
		103	Time related settings	Modify time			
		104		Time display format settings			
		105		Time zone settings			
		106		Automatically update time			
		107	Network service	Call transfer			
		108		Call restrictions			
		109		Call waiting			
		110		Call Hold			
111	Multiparty call/three party call						
112	Caller number identification display/restrictions						

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note		
		№	Name						
		113		Network selection					
106	application level software of digital cellular mobile telecommunication network mobile stations	114	Security settings	Initiate keyboard lock	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station			
				115				Response to keyboard operations in the locked keyboard	
								116	Handle incoming calls in the locked keyboard
									117

№	Name of Products, Type of materials	Items, Parameter, Types of tests			Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name					
		118		Handle alarm clock alerts in the locked keyboard				
106	application level software of digital cellular mobile telecommunication network mobile stations	119	Keyboard lock	Handle low battery alerts in the locked keyboard	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station		
				120				Security settings
		121	MS password	Password effectiveness				
				The password effectiveness of replaced SIM cards				
		122						
123		PIN code						

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note	
		№	Name					
106	application level software of digital cellular mobile telecommunication network mobile stations	124	Background lamp	Background lamp settings	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station		
				125			ON/Off of background lamp	
				126			Power on/off	
		127	Key functions	Normal key operations				
		128		Abnormal key operations				
		129	Input methods	Enter characters in all input methods				
		130		Switch between input methods				
		131	Shortcut keys	Fast dial functions				
		132		Menu shortcut key functions				
		133	Scenario modes	Functions in various modes				
		134		Scenario mode functions settings				
		135	Voice control	Voice dial function settings				
136	Apply voice dial functions							

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note	
		№	Name					
		137	Voice command function settings					
		138	Apply voice command functions					
106	application level software of digital cellular mobile telecommunication network mobile stations	139	Interface communications	Wireline interface communications	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station		
				140			Infrared interface communications	
				141			Bluetooth interface communications	
		142	Data service access modes	Circuit switching data access				
				143			Packet switching data access	
		144	WAP service	Circuit switching data access based WAP service				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note		
		№	Name						
		145	Packet switching data access based WAP service						
		146	Browser netpages						
		147	Favorite						
		148	Offline browsing						
106	application level software of digital cellular mobile telecommunication network mobile stations	149	Alarm clock settings	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station				
		150						Alert time	
		151						Alert duration time	
		152	Process after alert					Alert modes	
		153						With keyboard response	
		154	Memo/schedule					Operations on	Without keyboard response
		155							Edit and save entries

№	Name of Products, Type of materials	Items, Parameter, Types of tests			Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name					
		156		Delete entries				
		157	Alerts in memo/schedule	Alerts in the waiting status				
		158		Alerts as power off				
		159		Take and save pictures				
		160	Take and manage pictures	Edit pictures				
		161		Modify picture name				
		162		View picture properties				
		163		Sequencing				
		164		Delete a single picture				
		165		Delete several pictures				
106	application level software of digital cellular mobile telecommunication network mobile stations					0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station	

№	Name of Products, Type of materials	Items, Parameter, Types of tests			Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name					
		166		Delete all pictures				
		167	taking	Picture settings				
		168	Games	Keyboard response to direction an function keys				
106	application level software of digital cellular mobile telecommunication network mobile stations	169	Games	Keyboard response to undefined keys	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station		
		170	Games	Game effects settings				
		171	Games	Game status				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
		172	Calculat or	Comput ing capabili ty double- check			
		6、 Other functions					
		173	Other functions				
		7、 Users Manual					
106	application level software of digital cellular mobile telecommunicati on network mobile stations	174	Check user documents	Function descripti on	0420	YD/T 1438-2006 Function Requirements and Testing Methods for Application Level Software of Digital Mobile Station	
		175		specificat ion			
107	software product	1	suitability		0417	GB/T 17544-1998 Information technology--Software packages— Quality requirements and testing GB/T 16260.1-2006 Software engineering - Product quality - Part 1: Quality model GB/T 16260.2-2006 Software engineering - Product quality - Part 2: External metrics	Accredited only for functionality
		2	accuracy				
		3	interoperability				
		4	security				
		5	compliance of functionality				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
108	Soft switch Equipment		All Items	0419 11	YD/T 1435-2007 《Testing Specification for Softswitch Equipment》		
			All Items	0419 11	YD/T 1156-2001 Test Specification for High-End Router YD/T 1434-2006 《General Technical Requirements for Soft switch》 (Revised) YD/T 1194-2002 Technical specification of Stream Control Transmission Protocol (SCTP) YD/T 1444-2006 Test Specification for Stream Control Transmission Protocol (SCTP)		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
108	Soft switch Equipment		All Items	0419 11	<p>YD/T 1192-2002 Technical specification of adaptation layer for No.7 Signaling System Interworking with IP-Message Transfer Part(MTP) Level 3 User Adaptation Layer(M3UA)</p> <p>YD/T 1316-2004 Adaptation Layer Test Specification for No.7 Signaling System Interworking with IP-Message Transfer Part(MTP) Level 3 User Adaptation Layer(M3UA)</p> <p>YD/T1409-2006 Adaptation layer Test specification for NO.7 Signaling</p> <p>YD/T 1445-2006 Technical Specification of Adaptation Layer of No.7 Signaling Interworking with IP Message Transfer Part (MTP) Level 2 User Adaptation Layer</p> <p>YD/T1409-2006 Test Specification of Adaptation Layer of No.7 System Interworking with IP-Message Transfer Part(MTP)Level2 User Adaptation Layer(M2UA)</p> <p>YDN 038-1997 National NO.7 signaling system technical specification-ISDN user part(ISUP)</p> <p>YD/T 1304—2004 《Test specification for NationalNO.7 signaling system-message transfer part (MTP) and telephone user part(TUP)》</p> <p>YD/T 1193-2002 《Bearer independent call control specification》</p> <p>YDN107.2-1999 China Intelligent Network Application Protocol (INAP) Testing Specification(Part of SSP)</p>		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
108	Soft switch Equipment		All Items	0419 11	GB/T 17904-1999 《ISDN user-network interface data link layer specification and conformance testing method》 YDN108-1998 The conformance testing technical specification for V5.2 interface YD/T 1472-2006 Technical Requirements for the Adaptation Layer of ISDN Signaling Interworking with IP YD/T 1473-2006 Technical Requirements of V5.2 User Adaptation Layer YD/T 965-1998 The safety requirement and test method for telecommunication terminal equipment		
109	IP Trunk Media Gateway	1	Basic Functional Testing	0419 11	YD/T 1387.1-2005 Testing Method of IP trunk media gateway		
		2	E1 Interface		GB/T 7611-2001 Characteristics of the electrical interface at hierarchical bit rate for digital network		
		3	10/100Base-T Interface		YD/T 1156-2001 Test Specification for High-End Router		
		4	STM Interface				
		5	DSS1 Protocol Testing		GB/T 17904-1999 ISDN user - network interface data link layer specification and conformance testing method :User-network interface data link layer specification		
		6	H.248 protocol Testing		YD/T 1292-2003 Technical specification for media gateway control protocol based on H.248		
		7	SCTP Protocol Testing		YD/T 1444-2006 Test methods for stream control transmission protocol(SCTP)		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
109	IP Trunk Media Gateway	8	MGCP Protocol Testing	0419 11	YD/T 1243.1-2005 Testing Secification of IP trunk media gateway YD/T 1387.1-2005 Testing Method of IP trunk media gateway		
		9	IUA Protocol Testing				
		10	RTP/RTCP Protocol Testing				
		11	Signaling Flow Testing				
		12	Network Management				
		13	Performance Testing				
		14	Reliability Testing				
		15	Network synchronization Testing				
		16	General Testing				
		17	Z Interface Testing				
110	Integrated access media gateway	1	Z Interface Testing	0419 11	YD/T 1387.3-2005 Testing Methods of media gateway equipment—Integrated access media gateway		
		2	ISDN BRI interface Testing				
		3	ISDN PRI Interface		GB/T 7611-2001 Characteristics of the electrical interface at hierarchical bit rate for digital network		
		4	ADSL interface Testing		YD/T 1055-2005 The test method for full-rate ADSL system with POTS splitter		
		5	ADSL (G.Lite) interface Testing				
		6	VDSL interface Testing		YD/T 1239-2002 Access Network Technical Specifications-Very-high-speed Digital Subscriber Line		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
110	Integrated access media gateway	7	SHDSL interface Testing	0419 11	YD/T 1185-2002 Access network technical specifications-Single-pair High bit rate Digital Subscriber Line(SHDSL)		
		8	10/100Base-T Interface		YD/T 1156-2001 Test Specification for High-End Router		
		9	STM Interface				
		10	Basic Functional Testing		YD/T 1387.3-2005 Testing Methods of media gateway equipment—Integrated access media gateway		
		11	H.248 protocol Testing		YD/T 1292-2003 Technical specification for media gateway control protocol based on H.248		
		12	SCTP Protocol Testing		YD/T 1444-2006 Test methods for stream control transmission protocol(SCTP)		
		13	MGCP Protocol Testing				
		14	IUA Protocol Testing		YD/T 1387.3-2005 Testing Methods of media gateway equipment—Integrated access media gateway		
		15	RTP/RTCP Protocol Testing				
		16	RIP V2 Protocol Testing				
		17	OSPF V2 Protocol Testing		YD/T 1156-2001 Test Specification for High-End Router		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
110	Integrated access media gateway	7	SHDSL interface Testing	0419 11	YD/T 1185-2002 Access network technical specifications-Single-pair High bit rate Digital Subscriber Line(SHDSL)		
		8	10/100Base-T Interface		YD/T 1156-2001 Test Specification for High-End Router		
		9	STM Interface				
		10	Basic Functional Testing		YD/T 1387.3-2005 Testing Methods of media gateway equipment—Integrated access media gateway		
		11	H.248 protocol Testing		YD/T 1292-2003 Technical specification for media gateway control protocol based on H.248		
		12	SCTP Protocol Testing		YD/T 1444-2006 Test methods for stream control transmission protocol(SCTP)		
		13	MGCP Protocol Testing				
		14	IUA Protocol Testing		YD/T 1387.3-2005 Testing Methods of media gateway equipment—Integrated access media gateway		
		15	RTP/RTCP Protocol Testing				
		16	RIP V2 Protocol Testing				
17	OSPF V2 Protocol Testing		YD/T 1156-2001 Test Specification for High-End Router				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
110	Integrated access media gateway	18	BGP4 Protocol Testing	0419 11	YD/T 1156-2001 Test Specification for High-End Router		
		19	Signaling Flow Testing		YD/T 1243.3-2005 Testing Specification of media gateway equipment—Integrated access media gateway		
		20	Network Management		YD/T 1387.3-2005 Testing Methods of media gateway equipment—Integrated access media gateway		
		21	Performance Testing		YD/T 965-1998 The safety requirement and test method for telecommunication terminal equipment		
		22	Reliability Testing				
		23	Network synchronization Testing				
		24	General Testing				
111	No.7 Signaling Gateway	1	Test of Signaling Gateway function	0419 11	YD/T 1203-2001 Technical specification of signaling gateway for No.7 signaling and IP		
					YD/T 1408-2005 Test Method of Signaling Gateway for No.7 Signaling and IP	Accredited only for: 5.1 Test of Signaling Gateway function	
		2	MTP2		YD/T 1304-2004 Test Specification for national No.7 signaling system-Message Transfer Part (MTP) and Telephone User Part (TUP)	Accredited only for: MTP2	
		3	MTP3		YD/T 1304-2004 Test Specification for national No.7 signaling system-Message Transfer Part (MTP) and Telephone User Part (TUP)	Accredited only for: MTP3	
4	2Mbit/s High Speed Signalling	YD/T 1195-2002 Test Specification for National No.7 Signaling System - The 2Mbit/s High Speed Signaling Link					

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
111	No.7 Signaling Gateway	5	SCCP	0419 11	YD/T 1126-2001 No.7 signaling system test specification – Signaling connection control part		
		6	SCTP		YD/T 1194-2002 Technical specification of Stream Control Transmission Protocol (SCTP) YD/T 1444-2006 Test Specification for Stream Control Transmission Protocol (SCTP)		
		7	M3UA		YD/T 1192-2002 Technical specification of adaptation layer for No.7 Signaling System Interworking with IP-Message Transfer Part(MTP) Level 3 User Adaptation Layer(M3UA) YD/T 1316-2004 Adaptation Layer Test Specification for No.7 Signaling System Interworking with IP-Message Transfer Part(MTP) Level 3 User Adaptation Layer(M3UA)	Accredited only for: YD/T 1316-2004 5 M3UA protocol test when SG as a STP 6 M3UA protocol test when SG as a Proxy	
		8	M2PA		YD/T 1191-2002 Technical specification of Adaptation Layer of No.7 Signaling Interworking with IP Message Transfer Part (MTP) Level 2 Peer-to-Peer Adaptation Layer YD/T 1315-2004 Test Specification of Adaptation Layer of No.7 Signaling Interworking with IP Message Transfer Part (MTP) Level 2 Peer-to-Peer Adaptation Layer		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
112	Integrated Access Device based on softswitch	1	building, sending, Authentication and trace calling party number	0419 11	YD/T 1532-2006 《Testing Specification for IAD based on softswitch》		
		2	security of telecommunications		YD/T 1156-2001 《Test Specification for High – End Router》		
		3	security of network management		YD/T 1358-2005 《Scurity requirements of medium-end and low-end router》		
		4	basic function		YD/T 1532-2006 《Testing Specification for IAD based on softswitch》		
		5	Z interface for user side		YDN 065-1997 《the Ministry of Posts and Telecommunications telephone switching equipment specification》		
		6	10/100Base-T interface		YD/T 1098-2001 《Test Specification for Low-End Router》 YD/T 1141-2001 《Testing Specification for Giga Bit Ethernet LAN Switch》		
		7	100Base-FX interface		YD/T 1528-2006 《 Technical requirements for optical fiber transceiver》		
		8	1000Base-T interface		YD/T 1156-2001 《Test Specification for High – End Router》		
		9	1000Base-LX interface				
		10	1000Base-SX interface				
		11	H.248 protocol	0419 11	YD/T 1532-2006 《Testing Specification for IAD based on softswitch》		
		12	MGCP protocol				
		13	RTP/RTCP protocol				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
112	Integrated Access Device based on softswitch	14	speech service	0419 11	YD/T 1532-2006 《Testing Specification for IAD based on softswitch》		
		15	performance test				
		16	OAM test				
		17	hardware test				
		18	high temperature test				
		19	low temperature test				
		20	high temperature high humidity test				
		21	environment test	0419 11	YD/T 950-1998 《Technical requirements and test methods for protection against overvoltages and overcurrents on telecommunication switching equipment》		
113	Firewall Device		All Items	0419 14	YD/T 1707-2007 Test specification for firewall		
			All Items	0419 14	YD/T1132-2001 Specification Requirement for firewall products		
114	Intrusion Detection System	1	System Function test	0419 14	YDN140-2006 《Technical Requirement for Network Intrusion Detection System 》 TMC-TM-01-025 《Test Method for Network Intrusion Detection System》		
		2	System Performance Test				
115	Exchange of mobile intelligent network	1	Time check	0419 11	YD/T 1431-2006 Technical requirement and testing methods for the charging performance of exchange—mobile intelligent network part		
		2	Error rate of Charging				
		3	The correlated charging disposal system examine	0419 11			

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
116	Lightning Protection system of Running Telecommunication Station/Sties	1	Documents examine	0426	YD/T1429-2006 Performance requirements and Testing Methods for Lightning Protection of Running Telecommunication Stations/Sties		
		2	Ground grid text				
		3	Air-terminal System examine				
		4	Down-conductor System examine				
		5	Equipotential Bonding examine				
		6	Test the lightning protection of entrance-cable at running telecommunication stations/sites				
		7	Test the protection against overvoltages of running telecommunication stations/sites				
117	CDMA digital cellular mobile communication network message center	1	Service test	0419 14	YD/T 1222.1-2002 800MHz CDMA digital cellular mobile communication network message center equipment test method part one: point to point SMS		
		2	Function test				
		3	Performance, stability, security test				
		4	Operation and maintenance				
		5	Interface signalling				
		6	Service application interface				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
117	CDMA digital cellular mobile communication network message center	7	Security of information-Key words filtration		YD/T 1639-2007 digital cellular mobile communication network message center equipment and message gateway equipment security requirement and test method		
118	The Billing System of the Digital Cellular Mobile Telecommunication Network Point to Point Short Message Service	1	Time Accuracy	0419 14	YD/T1684-2007 《The Technical Requirements and Testing Methods for the Billing of the Digital Cellular Mobile Telecommunication Network Point to Point Short Message Service》		
		2	Billing Accuracy				
		3	CDR Content				
		4	Subscriber Bill Content				
		5	Rating and Discounting				
		6	Billing Data Storage				
		7	Security				
119	Mobile Terminal Application Functions	1	Video Telephony	0419 14	IMTC Ref A&B 3G-324M Video Telephony Activity Group Test Cases – Interoperability; 3G-324M Video Telephony Activity Group Test Cases - Compliance		
		2	Push to Talk		OMA-ETS-PoC Enabler Test Specification (Conformance) for PoC		
		3	Java		Java_Test_Specs GSMNA Test Specification for Java Micro Edition rev 1.0.3		
		4	Device Management		OMA-ETS-DM Enabler Test Specification for Device Management		
		5	SUPL		OMA-ETS-SUPL Enabler Test Specification for SUPL		
		6	IMPS		OMA-ETS-IMPS_CSP Enabler Test Specification for OMA IMPS CSP		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
119	Mobile Terminal Application Functions	7	Browsing	0419 14	OMA-ETS-XHTMLMP Enabler Test Specification (Conformance) for XHTML Mobile Profile OMA-ETS-WCSS Enabler Test Specification for WCSS 1.1		
120	Mobile Communication System Base Station Antennas	1	Gain	0419 14	YD/T 1059-2004 : Mobile communication system base station antennas GB 9410 - 1988: General specification for antennas used in the mobile services		
		2	Roundness of the antenna array				
		3	Half Power beamwidth				
		4	Electrical downtilt precision				
		5	Front-Back Ratio				
		6	Cross polar ration				
		7	Voltage Standing Wave Ratio				
		8	Isolation				
		9	Power tolerance				
		10	Intermodulation				
121	Charger and interface for mobile telecommunication Terminal Equipment	1	Reliability of connecting interface	0419 14	YD/T 1591-2006 Technical requirements and test method of charger and interface for mobile telecommunication terminal equipment		
		2	Electrical performance of connecting interface				
		3	Flammability of connecting interface				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
121	Charger and interface for mobile telecommunication Terminal Equipment	4	PVC coat of connecting cable	0419 14	YD/T 1591-2006 Technical requirements and test method of charger and interface for mobile telecommunication terminal equipment		
		5	Requirement of Connecting cable				
		6	Electrical performance of connecting cable				
		7	Flammability of connecting cable				
		8	Identify of power supply				
		9	Range of input voltage				
		10	Range of input				
		11	Output voltage				
		12	Output current				
		13	Characteristic of output voltage and current				
		14	Output ripple				
		15	Short current				
		16	Current flow backwards				
		17	Power in no load mode				
		18	Average efficiency of charger				
		19	Requirement of Electro Magnetic Compatibility				
		20	Requirement of safety				
		21	Requirement of environment applicability				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
122	2GHz TD-SCDMA Base Station and Ancillary Equipment	1	Radiated emission	1207	YD/T 1592.2—2007 Requirements and Measurement Methods of Electromagnetic Compatibility for TD-SCDMA Digital Cellular Mobile Telecommunications System Part 2: Base Station and Ancillary Equipment		
		2	Conducted emission				
		3	Conducted spurious emission				
		4	Radiated spurious emission				
		5	Harmonic current emission				
		6	Voltage fluctuations and flicker				
		7	Transient conducted emission				
		8	Electrostatic discharge(ESD) immunity test				
		9	Radiated, radio-frequency, electromagnetic field immunity test				
		10	Electrical fast transient/ burst immunity test				
		11	Surge immunity test				
		12	Immunity to conducted disturbances, induced by radio-frequency fields				
		13	Power frequency magnetic field immunity test				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
122	2GHz TD-SCDMA Base Station and Ancillary Equipment	14	Voltage dips, short interruptions and voltage variations immunity test	1207	YD/T 1592.2—2007 Requirements and Measurement Methods of Electromagnetic Compatibility for TD-SCDMA Digital Cellular Mobile Telecommunications System Part 2: Base Station and Ancillary Equipment		
		15	Electrical fast transient/burst immunity test(Road vehicles)				
123	2GHz TD-SCDMA User Equipment and Ancillary Equipment	1	Radiated emission	1207	YD/T 1592.1—2007 Requirements and Measurement Methods of Electromagnetic Compatibility for TD-SCDMA Digital Cellular Mobile Telecommunications System Part 1: User Equipment and Ancillary Equipment		
		2	Conducted emission				
		3	Conducted spurious emission				
		4	Radiated spurious emission				
		5	Harmonic current emission				
		6	Voltage fluctuations and flicker				
		7	Transient conducted emission				
		8	Electrostatic discharge immunity test				
		9	Radiated, radio-frequency, electromagnetic field immunity test				
		10	Electrical fast transient/ burst immunity test				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
123	2GHz TD-SCDMA User Equipment and Ancillary Equipment	11	Surge immunity test	1207	YD/T 1592.1—2007 Requirements and Measurement Methods of Electromagnetic Compatibility for TD-SCDMA Digital Cellular Mobile Telecommunications System Part 1: User Equipment and Ancillary Equipment		
		12	Immunity to conducted disturbances, induced by radio-frequency fields				
		13	Power frequency magnetic field immunity test				
		14	Voltage dips, short interruptions and voltage variations immunity test				
		15	Electrical fast transient/burst immunity test(Road vehicles)				
124	WCDMA Base Station and Ancillary Equipment	1	Radiated emission	1207	YD/T 1595.2—2007 Requirements and Measurement Methods of Electromagnetic Compatibility for WCDMA Digital Cellular Mobile Telecommunications System Part 2: Base Station and Ancillary Equipment		
		2	Conducted emission				
		3	Conducted spurious emission				
		4	Radiated spurious emission				
		5	Harmonic current emission				
		6	Voltage fluctuations and flicker				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
124	WCDMA Base Station and Ancillary Equipment	7	Transient conducted emission	1207	YD/T 1595.2—2007 Requirements and Measurement Methods of Electromagnetic Compatibility for WCDMA Digital Cellular Mobile Telecommunications System Part 2: Base Station and Ancillary Equipment		
		8	Electrostatic discharge(ESD) immunity test				
		9	Radiated, radio-frequency, electromagnetic field immunity test				
		10	Electrical fast transient/ burst immunity test				
		11	Surge immunity test				
		12	Immunity to conducted disturbances, induced by radio-frequency fields				
		13	Power frequency magnetic field immunity test				
		14	Voltage dips, short interruptions and voltage variations immunity test				
		15	Electrical fast transient/burst immunity test(Road vehicles)				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
125	WCDMA Digital Mobile User Equipment	1	Radiated emission	1207	YD/T 1595.1—2007 Requirements and Measurement Methods of Electromagnetic Compatibility for WCDMA Digital Cellular Mobile Telecommunications System Part 1: User Equipment and Ancillary Equipment		
		2	Conducted emission				
		3	Conducted spurious emission				
		4	Radiated spurious emission				
		5	Harmonic current emission				
		6	Voltage fluctuations and flicker				
		7	Transient conducted emission				
		8	Electrostatic discharge immunity test				
		9	Radiated, radio-frequency, electromagnetic field immunity test				
		10	Electrical fast transient/ burst immunity test				
		11	Surge immunity test				
		12	Immunity to conducted disturbances, induced by radio-frequency fields				
		13	Power frequency magnetic field immunity test				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
125	WCDMA Digital Mobile User Equipment	14	Voltage dips, short interruptions and voltage variations immunity test	1207	YD/T 1595.1—2007 Requirements and Measurement Methods of Electromagnetic Compatibility for WCDMA Digital Cellular Mobile Telecommunications System Part 1: User Equipment and Ancillary Equipment		
		15	Electrical fast transient/burst immunity test(Road vehicles)				
126	cdma2000 Base Station and Ancillary Equipment	1	Radiated emission	1207	YD/T 1597.2—2007 Requirements and Measurement Methods of Electromagnetic Compatibility for cdma2000 Digital Cellular Mobile Telecommunications System Part 2: Base Station and Ancillary Equipment		
		2	Conducted emission				
		3	Conducted specious emission				
		4	Radiated specious emission				
		5	Harmonic current emission				
		6	Voltage fluctuations and flicker				
		7	Transient conducted emission				
		8	Electrostatic discharge(ESD) immunity test				
		9	Radiated, radio-frequency, electromagnetic field immunity test				
		10	Electrical fast transient/ burst immunity test				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
126	cdma2000 Base Station and Ancillary Equipment	11	Surge immunity test	1207	YD/T 1597.2—2007 Requirements and Measurement Methods of Electromagnetic Compatibility for cdma2000 Digital Cellular Mobile Telecommunications System Part 2: Base Station and Ancillary Equipment		
		12	Immunity to conducted disturbances, induced by radio-frequency fields				
		13	Power frequency magnetic field immunity test				
		14	Voltage dips, short interruptions and voltage variations immunity test				
		15	Electrical fast transient/burst immunity test(Road vehicles)				
127	cdma2000 Digital Mobile User Equipment	1	Radiated emission	1207	YD/T 1597.1—2007 Requirements and Measurement Methods of Electromagnetic Compatibility for cdma2000 Digital Cellular Mobile Telecommunications System Part 1: User Equipment and Ancillary Equipment		
		2	Conducted emission				
		3	Conducted specious emission				
		4	Radiated specious emission				
		5	Harmonic current emission				
		6	Voltage fluctuations and flicker				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
127	cdma2000 Digital Mobile User Equipment	7	Transient conducted emission	1207	YD/T 1597.1—2007 Requirements and Measurement Methods of Electromagnetic Compatibility for cdma2000 Digital Cellular Mobile Telecommunications System Part 1: User Equipment and Ancillary Equipment		
		8	Electrostatic discharge immunity test				
		9	Radiated, radio-frequency, electromagnetic field immunity test				
		10	Electrical fast transient/ burst immunity test				
		11	Surge immunity test				
		12	Immunity to conducted disturbances, induced by radio-frequency fields				
		13	Power frequency magnetic field immunity test				
		14	Voltage dips, short interruptions and voltage variations immunity test				
		15	Electrical fast transient/burst immunity test(Road vehicles)				



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APPENDIX1-2 LIST OF ACCREDITED CALIBRATION SCOPE

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
1	Frequency standards	Frequency accuracy Frequency stability Frequency drift in certain period Frequency reproducibility Aging rat	0412	HP5071A Cesium Beam Frequency Standard 909 Rubidium Frequency Standard XSD2 High Stability Quartz Crystal Oscillator	JJG 492-87 Verification Regulation of Cesium Beam Frequency Standard JJG 292-1996 Verification Regulation of Rubidium Frequency Standard JJG 181-2005 Verification Regulation of Quartz Crystal frequency Oscillator	100kHz、 1MHz、 5MHz、 10MHz	5.6×10^{-13} ($k=2$)	

№	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
2	Frequency Counters	Crystal Oscillator: Frequency accuracy Frequency stability Frequency drift in certain period Frequency change in one day Frequency reproducibility	0412	Universal Counters Microwave Frequency Counters	JJG 349-2001 <Verification Regulation of Universal Counters> JJG 841-93 <Verification Regulation of Microwave Frequency Counters>	0-18GHz	5.6×10^{-13}	
3	Signal Generator (Frequency)	Crystal Oscillator: Frequency accuracy Frequency stability Aging rate	0412	Signal Generator Frequency Synthesizer	JJG 502-87 <Verification Regulation of Frequency Synthesizer>	0-18GHz	5.6×10^{-13}	
4	Frequency Comparator	Frequency stability	0412	Frequency Comparator	JJG 545-88 <Verification Regulation of Frequency Comparator >	100kHz、 1MHz、 5MHz、 10MHz	$1.0 \times 10^{-12}/s$	
5	Time Synthesizer	Delay time	0412	Time Synthesizer	JJG 803-1993 <Verification Regulation of Time Synthesizer>	$\pm (1ns \sim 10000s)$	(1ns~10s): 0.58ns (10~1000)s: 6.2ns	
6	Time Interval Meter	Time interval measurement	0412	Time Interval Meter	JJG 953-2000 <Verification Regulation of Precision Time Interval Meter>	$\pm (1ns \sim 10000s)$	(1ns~1s): 1.1ns (1~1000)s: 13ns	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
7	PDH/SDH digital transmission analyzer	Frequency (or Rate)	0419 01	Frequency Counters, Reference PDH/SDH digital transmission analyzer /MP1550A/B、ANT-20、37717 A/B/C、7718A/B/C、ANT-20 10g、ONT-4、J7231series	JJG (YD) 044-2006 Regulation of Verification for SDH Transmission Analyzer	2048 ~9953280 kbit/s	2×10^{-7}	
		Pulse shape at output				HDB3、CMI	Amplitude (0.01 ~ 0.03)V Time Interval (0.1 ~ 1)ns	
		Maximum peak-to-peak jitter at an input port				STM-1/4/16/64 frequency 20Hz ~ 80MHz amplitude 0 ~ 20UIpp	3.5% ($k=2$)	
		The return loss at the input port				Frequency 51.2kHz ~ 240MHz	1dB ($k=2$)	
		The return loss at the output port				Frequency 8MHz ~ 240MHz	1dB ($k=2$)	
		Maximum peak-to-peak jitter at an output port				STM-1/4/16/64 amplitude: 0 ~ 10UIpp	5.8% ($k=2$)	
		Maximum gain of protective monitor pointer				Range of loss over 30dB	1dB ($k=2$)	
		Mean launched power				STM-1/4/16/64 1310/1550nm +3 ~ -70dBm	0.2dBm ($k=2$)	
		Minimum sensitivity						
		Minimum extinction ratio				STM-1/4/16/64	0.2dB ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note	
7	PDH/SDH digital transmission analyzer	Output of Jitter modulation	041901	Frequency Counters, Reference PDH/SDH digital transmission analyzer /MP1550A/B、ANT-20、37717 A/B/C、7718A/B/C、ANT-20 10g、ONT-4、J7231series	JJG (YD) 044-2006 Regulation of Verification for SDH Transmission Analyzer	STM -1/4/16/64 Modulation frequency 20Hz~20MHz	0.1UIpp ($k=2$)		
		jitter measure				0~20UIpp	3.5% ($k=2$)		
		Spectral characteristics				STM-1/4/16/64 1550nm/1310nm	0.1nm ($k=2$)		
		Receiver reflectance				STM-1/4/16/64 1550nm/1310nm	1dB ($k=2$)		
		High-Z at input port				more than 30dB			
8	Digital signal jitter	Jitter generator	041901	HP 37717	JJG (YD) 043-1998 Verification regulation of jitter tester	2M~622M	Frequency	2×10^{-7} ($k=2$)	
							Output jitter	0.01UIpp ($k=2$)	
							Generation jitter of clock signal	0.1UIpp ($k=2$)	
							Generation jitter of digital signal	0.1UIpp ($k=2$)	
							Return loss at clock data port	1dB ($k=2$)	
							Return loss at data output port	1dB ($k=2$)	
							Output pulse shape of data output port	Amplitude (0.01~0.03) V ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note	
8	Digital signal jitter	Return loss at clock input port	0419 01	HP 37717	JJG (YD) 043-1998 Verification regulation of jitter tester	2M~ 622M	1dB ($k=2$)		
		Return loss at data input port					1dB ($k=2$)		
		Measurement for jitter of clock input					3.5% ($k=2$)		
		Measurement for jitter of data input					3.5% ($k=2$)		
		SDH output jitter					JJG (YD) 044-1998 regulation of Verification for SDH transmission analyzer		0.1UIpp ($k=2$)
		SDH input jitter measurement					3.5% ($k=2$)		
9	Digital signal wander analyzer	PDH signal wander	0419 01	SJ- 300E	JJG (YD) 048-1999 Verification regulation of wander analyzer	2M, 155M	3ns ($k=2$)		
		SDH signal wander					1ns ($k=2$)		
10	Radio Communication Test Set	Reference Frequency Stability	0419 02	8920A、 2955、4031	JJF1065-2000 Calibration Specification for RF communication Test Set	10MHz	(0.82~ 58)mHz ($k=2$)		
		Spectrum Analyzer: Frequency					10kHz~ 1000MHz		(0.58~ 82)mHz ($k=2$)
		Frequency Span					10kHz~ 1000MHz		23Hz~ 2.3MHz ($k=2$)
		Resolution Bandwidths					100Hz~ 1MHz		86mHz~ 50kHz ($k=2$)
		Reference Level					-70 ~ +30dBm		0.36dB ($k=2$)
		Scale fidelity					0~100dB		0.36dB ($k=2$)

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
10	Radio Communication Test Set	Input Responses	0419 02	8920A、2955、4031	JJF1065-2000 Calibration Specification for RF communication Test Set	100kHz~1000MHz	0.36dB ($k=2$)	
		Display Average Noise Level				10kHz~1000MHz	0.48 dB ($k=2$)	
		Residual Responses				10kHz~1000MHz	0.68 dB ($k=2$)	
		Input Accuration				0~70 dB	0.50dB ($k=2$)	
		OBW				5~200 kHz	10.4mHz ($k=2$)	
		Adjacent Channel Power				-70~0dBc	0.24dB ($k=2$)	
		Tracking Generator: Frequency				400kHz~1000MHz	(0.58~82) mHz ($k=2$)	
		Output Level				RF Output: -137~-19dBm Duplex Output:-127~+7dBm	≥ -110 dBm 0.28dB ($k=2$) <-110dBm 0.32dB ($k=2$) <-120dBm 0.38dB ($k=2$)	
		Self Loop Flatness				10kHz~1000MHz	0.42dB ($k=2$)	
		RF Generator: Frequency				10kHz~1000MHz	(0.58~82) mHz ($k=2$)	
		Output Level				RF Output: -137~-19dBm Duplex Output:-127~+7dBm	≥ -110 dBm 0.28dB ($k=2$) <-110dBm 0.32dB ($k=2$) <-120dBm 0.38dB ($k=2$)	
		Spectral Purity				10kHz~1000MHz	0.92dB ($k=2$)	
		SSB Phase Noise				10kHz~1000MHz	0.60dB ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		AM				0~99%	1.2% ($k=2$)	
10	Radio Communication Test Set	FM	0419 02	8920A、 2955、4031	JJF1065-2000 Calibration Specification for RF communication Test Set	0~>50kHz	1.2% ($k=2$)	
		Φ_m				0~10 rad	150kHz $\leq f_c < 10$ MHz 4.6% ($k=2$) 10MHz $\leq f_c < 1$ 300MHz 3.5 % ($k=2$)	
		RF Analyzer: Frequency				400kHz~1000MHz	(0.58~82)mHz ($k=2$)	
		RF Power				RF Input: 1mW~60W Ant input: 1uW~100mW	0.098dB ($k=2$)	
		AM				5~1000MHz (0~95%)	1.2% ($k=2$)	
		FM				5~1000MHz (20Hz~75kHz)	1.2% ($k=2$)	
		Φ_m				5~1000MHz (0~10 rad)	150kHz $\leq f_c < 10$ MHz 4.6% ($k=2$) 10MHz $\leq f_c < 1$ 300MHz 3.5 % ($k=2$)	
		AF Generator: Frequency				DC~25kHz)	0.58mHz ($k=2$)	
		Output Level				0.1mV~4V	0.86% ($k=2$)	
		Output Frequency Responses				DC~25kHz	0.86% ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		DC Output Level				1V~4V	0.01% ($k=2$)	
10	Radio Communication Test Set	Output Level Distortion	0419 02	8920A、 2955、4031	JJF1065-2000 Calibration Specification for RF communication Test Set	20Hz.~ 25kHz	(0.5~2.4)% ($k=2$)	
		AF Analyzer: AF Frequency				20Hz.~ 400kHz	0.58mHz ($k=2$)	
		Residual Noise				20Hz.~ 25kHz	2.4mV ($k=2$)	
		AC Level				20mV.~ 30V	0.058% ($k=2$)	
		Frequency Responses				20Hz.~ 25kHz	0.058% ($k=2$)	
		DC Level				100mV.~ 42V	5.8×10^{-6} ($k=2$)	
		DC Current				0~2A	6.9×10^{-5} ($k=2$)	
		Filter: CCITT				16.6~ 7600Hz	0.04dB ($k=2$)	
		C message				60~ 5000Hz	0.04dB ($k=2$)	
		300Hz LPF				30~ 3000Hz	0.04dB ($k=2$)	
		3kHz LPF				300~ 30000Hz	0.04dB ($k=2$)	
		15kHz LPF				1.5kHz~ 150kHz	0.04dB ($k=2$)	
		99kHz LPF				10~ 1000kHz	0.04dB ($k=2$)	
		20Hz HPF				2~200Hz	0.04dB ($k=2$)	
		50Hz HPF				5~500Hz	0.04dB ($k=2$)	
		300Hz HPF				30~ 3000Hz	0.04dB ($k=2$)	
		4000Hz BPF				400~ 40000Hz	0.04dB ($k=2$)	
		1kHz Notch				100~ 10000Hz	0.04dB ($k=2$)	

№	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		SINAD/Distortion				失真:0.1~100% 信纳比: 0~60dB	0.15dB ($k=2$)	
10	Radio Communication Test Set	Oscilloscope	041902	8920A、2955、4031	JJF1065-2000 Calibration Specification for RF communication Test Set	100mS~50uS	0.012% ($k=2$)	
		Scale/Division				2mV~20V	0.28% ($k=2$)	
		Bandwidth				20Hz~100kHz	0.6dB ($k=2$)	
		Encode/decode chick				10kHz~1000MHz	0.1% ($k=2$)	
11	level generator	frequency	041901	level generator	JJG374-97 verification regulation for level generator	50Hz~36MHz 75Ω 150Ω 600Ω	(0.1~1)Hz ($k=2$)	
		zero level					0.03dB ($k=2$)	
		Output level					0.1 dB ($k=2$)	
		Level indicator					0.1 dB ($k=2$)	
		output harmonic wave distortion					(1~2)dB ($k=2$)	
12	level meter (selective/wideband)	frequency	041901	level meter (selective/wideband)	JJG777-92 verification regulation for selective level meter JJG(YD)027-94 verification regulation for wideband level meter	50Hz~36MHz 75Ω 150Ω 600Ω	(0.1~1)Hz ($k=2$)	
		zero level					0.03dB ($k=2$)	
		Level indicator					0.1 dB ($k=2$)	
		Input level					0.1dB ($k=2$)	
13	attenuator	attenuation	041901	balance attenuator	JJG028-94 verification regulation for balance variety attenuator	10kHz~14MHz 150Ω 50Hz~620kHz 600Ω	(0.01~0.07)dB ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
				imbalance attenuator	JJG387-2005 Verification Regulation of Coaxial Attenuator	10kHz~ 36MHz 75Ω	(0.01~ 0.07)dB ($k=2$)	
14	Oscilloscope	ΔT Time Measurement	0417	V-1560 54622	JJG262-96 Oscilloscope of verification regulation JJF1057-1998 Calibration Specification of Digital Oscilloscope	10ns-0.1s	0.006% ($k=2$)	
		ΔV Voltage Measurement				10mV- 20V	0.14% ($k=2$)	
		Vertical Bandwidth				DC- 500MHz	0.3dB ($k=2$)	
		Rise Time				>700ps	87 ps ($k=2$)	
		Scan Time Coefficient				10ns/div- 0.5s/div	0.01% ($k=2$)	
		Vertical Deflection Coefficient				1mV/div- 5V/div	0.29% ($k=2$)	
		Expand Scan Time Coefficient				10ns/div- 0.5s/div	0.01% ($k=2$)	
		Calibrate Signal Voltage				10mV-20V	0.29% ($k=2$)	
		Calibrate Signal Frequency				1 kHz- 1MHz	1% ($k=2$)	
		Vertical Displacement Linearity				1mV/div- 5V/div	1% ($k=2$)	
		Scan Linearity				10ns/div- 0.5s/div	1% ($k=2$)	
		Delay Time Range				10ns/div- 0.5s/div	1% ($k=2$)	
		Delay Time Swing Ratio				10ns/div- 0.5s/div	1% ($k=2$)	
		Input Impedance				1MΩ 50Ω	1% ($k=2$)	

№	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
15	Optical Power Meter for Telecommunication	Range of Optical Power	0419 01	HP8156A, HP8158A, OLA-100, OLA-15	JJG 965—2001 Verification Regulation of Optical power Meter in Telecommunication	0~50dBm	U=1%(k=2)	
		Value of Optical Power						
16	Optical Attenuator for optical communication	Value of Attenuator	0419 01	HP8156A, HP8158A, OLA-100, OLA-15	JJG (YD) 040—98 Verification Regulation of Optical Attenuator	(10 ~ 60) dB	≤0.2% (10~ 40dB) ≤0.5% (>40dB)	
		Return Loss of Attenuator (Option)						
17	Optical Time Domain Reflectometer (OTDR)	Distance accuracy	0419 01	HP8147 HPE6000 PK7500	JJG 959-2001 Verification Regulation of Optical Time Domain Reflectometer	(0-300) km	0.2m	
		Loss measurement				(0-40)dB	0.016dB/dB	
18	Stabilized Laser Sources for Optical Transmit	Output Power	0419 01	OLS-100, HP81554SM	JJG 958—2000 Verification Regulation of Stabilized Laser Sources for Optical Transmit	10mW~ 1pW	(2~ 10)% Stability: ≤0.5dB/ 15min ≤0.3 dB/1h	
		Stability of output power						
		Spectrum						
19	Optical Wavelength	Optical Wavelength	0419 01	Optical Telecommunications MF9630A HP86120x etc	JJG963-2001 Optical Wavelength Counters in Telecommunication	(0.6~1.6) μm	$U=5 \times 10^{-7}$ (k=2)	
20	Optical Spectrum Analyzer	Optical Wavelength	0419 01	Optical Telecommunications MS9710,HP 71518614X, etc	JJG(YD)046-99 Verification Regulation of the Optical Spectrum Analyzer	(0.6~ 1.6)μm	$U=5 \times 10^{-7}$ (k=2)	
		Optical Power				(+3~-110) dBm	≤0.4dB	
		Resolution Bandwidth					≤0.05nm	
		Dynamic Range					≤70dB(1nm)	
21	Spectrum analyzer	Reference frequency	0419 05	8590、8560、 Series	JJG501-2000 Verification Regulation Of Spect	1MHz,5M Hz,10MHz	5.8mHz (k=2)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Frequency readout			rum Analyzer	10Hz~ 26.5GHz	5.8mHz~ 0.58MHz ($k=2$)	
		Calibrator Out frequency				10MHz,10 0MHz,300 MHz,500 MHz	(5.8~ 60)mHz ($k=2$)	
21	Spectrum analyzer	Calibrator Out level	0419 05	8590、8560、 Series	JJG501-2000 Verification Regulation Of Spectrum Analyzer	-70~ +30dBm	0.20dB ($k=2$)	
		Frequency Scan				100Hz~ 26.5GHz	0.50Hz~ 76MHz ($k=2$)	
		Resolution Bandwidth				1Hz~ 10MHz	53mHz~ 500kHz ($k=2$)	
		Input Frequency responses				1×10^{-7} ~ 26.5GHz	0.20dB ($k=2$)	
		Reference Level				-120~ +30dBm	0.20dB ($k=2$)	
		Residual FM				300MHz~ 26.5GHz	2.3Hz ($k=2$)	
		Noise sidebands				Center Frequency ≤ 1 GHz Offset Center Frequency ≤ 0.1 ~ 100kHz	0.60dB ($k=2$)	
		Sweep Time				100uS~ 1S	0.28% ($k=2$)	
		Scale Fidelity				1dB,2dB,5 dB,10dB/d iv	Logarithm: 0.20dB ($k=2$) Linearity : 3% ($k=2$)	
		Resolution Bandwidth Switching Uncertainty				1Hz~ 5MHz	0.20dB ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Displayed Average Noise Level				1kHz~26.5GHz	Noise Level : 0.48dB ($k=2$) Residual Responses: 0.68dB ($k=2$)	
		Input Attenuation				0~70dB	0.50dB ($k=2$)	
21	Spectrum analyzer	Harmonic Distortion	0419 05	8590、8560、 Series	JJG501-2000 Verification Regulation Of Spectrum Analyzer	1x10 ⁻³ ~13.25GHz	0.70dB ($k=2$)	
		Third Order Intermodulation Distortion				1x10 ⁻³ ~26.5GHz	2.1dB ($k=2$)	
		Image Responses				2~26.5 GHz	0.70dB ($k=2$)	
		Gain Compression				10MHz~26.5GHz	2.1dB ($k=2$)	
22	Antenna	Antenna Factor	0419 03		ANSI C63.5-1988	30MHz~1GHz	2.8dB ($k=2$)	
23	Digital Multimeter	Multifunction Calibrator			JJG445-86 Verification Regulation of Precise AC Voltage Calibration Source JJG410-94 Verifica tion Regulation of DC Standard Voltage Source JJG166-93 Verification Regulation of D. C. Resistors	0 ~ 1000V	2×10 ⁻⁵	
		DC Voltage	0409	5100B 9200A		100Hz ~ 1MHz	2×10 ⁻⁴	
		AC Voltage				0 ~ 750V		
		DC Current				0 ~ 1A	3×10 ⁻⁴	
		AC Current				100Hz ~ 1kHz	3×10 ⁻³	
		Ohms				0 ~ 1A		
		10Ω ~ 100MΩ	6×10 ⁻⁶					

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note	
		Digital Multimeter							
		DC Voltage	0409	3458A 8840A 34401A	JJG315-83 Verification Regulation of DC Digital Voltmeter	0 ~ 1000V	6×10^{-6}		
23	Digital Multimeter	AC Voltage	0409	3458A 8840A 34401A	JJG(Space Light) 34-1999 Verifica tion Regulation For AC Digital Voltmeter	100Hz ~ 1MHz 0 ~ 750V	7×10^{-5}		
		DC Current			JJG598-89 Verification Regulation of DC Digital Ampere meter	0 ~ 1A	2×10^{-4}		
		AC Current			JJG(Space Light)35- 1999 Verification Regulation For AC Digital Current meter	100Hz ~ 5kHz 0 ~ 1A	6×10^{-4}		
		Ohms			JJG724-91 Verification Regulation of DC Digital Ohm meter	0.1Ω~ 100MΩ	6×10^{-6}		
24	SS7 Tester	EInterface	0420 12	SS7 Tester	JJF(YD)001-2006 SS7 Tester Specification of Calibration	2M	2×10^{-7}		
							Output pulse shape	Amplitude 0.01~0.03V,	
							Output jitter	0.01UIpp	
							Input jitter tolerance	3.5%	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
25	ISDN tester	timing extraction jitter (TE)	0420 23	PT500 CoBRA 830e sunrise LM2000 HPJ2302B	JJF(YD)002- 2006 《ISDN tester technical specification》	0~0.5UI	0.4%UI	
		Total phase deviation input to output (TE)				±1UI	0.6%UI	
		output jitter (NT)				0~0.5UI	0.4%UI	
25	ISDN tester	Transmitter output impedance	0420 23	PT500 CoBRA 830e sunrise LM2000 HPJ2302B	JJF(YD)002- 2006 《ISDN tester technical specification》	15Ω~25Ω	2Ω	
		Receiver input impedance				100Ω~ 5kΩ	2kHz≤f≤300 kHz, < 5%test value; f>300kHz, <7% test value	
		peak current				0.1mA~ 1mA	30μA, i≤60μA; 5 test value, i >600μA	
		output pulse shape				-30mV~ +210mV,5. 6Ω; -75mV~ +825mV,5 0Ω; -75mV~ +2025mV, 400Ω	15mV, 5.6Ω&50Ω; 20mV, 400Ω	
		pulse unbalance				0%~ ±10%	area, 2.5% amplitude, 2%	
		unbalance				38dB~ 78dB	0.5dB	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		impedance & return loss				0dB~25dB	5kHz~200kHz, $a_r=10\text{dB}$ ~25dB, 0.5dB 1kHz~200kHz, $a_r=0\text{dB}$ ~35dB, 1.5dB	
25	ISDN tester	pulse shape	0420 23	PT500 CoBRA 830e sunrise LM2000 HPJ2302B	JJF(YD)002-2006 《ISDN tester technical specification》	400MHz	1.25%	
		20dB~70dB				2kHz~50kHz, $a_s=20\text{dB}$ ~55dB, 0.5dB 2kHz~50kHz, $a_s=55\text{dB}$ ~70dB, 1.5dB 0.5kHz~200kHz, $a_s=20\text{dB}$ ~55dB, 1.5dB 0.2kHz~0.5kHz, $a_s=20\text{dB}$ ~45dB, 3dB 200kHz~1MHz, $a_s=20\text{dB}$ ~45dB, 1.5dB		

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		longitudinal output voltage				-40dBV~-90dBV	2.5kHz~170kHz, $a_{gl}=-40$ dBV~-50dBV, 0.5dBV 170kHz~300kHz, $a_{gl}=-50$ dBV~-80dBV, 1.0dBV	
25	ISDN tester	power density	0420 23	PT500 CoBRA 830e sunrise LM2000 HPJ2302B	JJF(YD)002-2006《ISDN tester technical specification》	frequency range: 2.5kHz~1MHz; lever test range: -20dB m/Hz~-86dB m/Hz	1dB	
		total power				frequency range: 100Hz~80kHz; lever test range: 10 dBm~15dBm	0.5dB	
		transmitter linearity				-128dB~-20dB	50Hz	
		E1: bit rate				0~16U _{Ipp}	0.1×10^{-6}	
		E1: pulse shape				400MHz	1.25%	
		E1: output jitter				0~16U _{Ipp}	0.1×10^{-6}	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		E1: input jitter tolerance				0~16UIpp	0.1×10^{-6}	
		E1: input bit rate tolerance				0~16UIpp	0.1×10^{-6}	
		E1: input attenuation tolerance				0~16UIpp	0.1×10^{-6}	
		E1: return loss				50Hz~25MHz	0.2dB	
		E1: input interfere immunity characteristics				0~16UIpp	0.1×10^{-6}	
26	Cable Tester	Attenuation	0419 14	DSP4000	TMC-XZ-003 Cable Tester Calibration Criteria	1MHz~250MHz	4.26%	
		NEXT				1MHz~250MHz	4.26%	
		FEXT				1MHz~250MHz	4.26%	
		Return Loss				1MHz~250MHz	4.26%	
		Impedence				1MHz~250MHz	4.26%	
		Value of Power				0~-50dBm	2%	
		Characteristic of Optical Source				800~1600nm 0~-50dBm	0.1nm 2%	
27	Local Call Simulator	Pulse Dial Signal Parameter	0419 14	AM-2A LCS-3 QJC06 A/B/C/D	TMC-XZ-004 Verification Regulation of Local Call Simulator	8~14 p.p.s	Time interval 0.11%	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		DTMF Dial Signal Parameter				Confine GB3378	Time interval : 0.11% Frequency: 1.7% Level: 3.5dBm	
		Simultaneity of synchronous call mode				Under 1ms	Time interval: 0.11%	
		Resistor at on hook				600Ω	1Ω	
		Resistor at off hook				Over 20kΩ	100Ω	
28	Tunable Laser Source	Wavelength range	0419 01	Tunable Laser/ MS9638A TUNICS- PRI、Agilent 81640A 81689A etc	JJG(YD)055-2002 Verification Regulation of Tunable Laser Source	(600~ 1600) nm	$U=0.005\text{nm}$ ($k=2$)	
		Wavelength accuracy					$U=5\times 10^{-7}$ ($k=2$)	
		Wavelength resolution					$U=0.0005\text{nm}$ ($k=2$)	
		Wavelength repeatability					$U=0.0005\text{nm}$ ($k=2$)	
		Wavelength stability					$U=0.0005\text{nm}$ ($k=2$)	
		Power stability				(+3~-110) dBm	$U=0.005\text{dB}$ ($k=2$)	
		Output Power				(+30~-50) dBm	$U=3\%$ ($k=2$)	
		Side-mode suppression ratio				(600~ 1750)nm	$U=0.3\text{dB}$ ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Line width				(1200~1600)nm 100kHz~22GHz	$U=0.05\text{dB}$ ($k=2$)	
29	Chromatic Dispersion Analyzer for Single Mode Optical Fiber	Zero Dispersion Wavelength	0419 01	S18 CD400	JJG(YD)0060-2002 Chromatic Dispersion Analyzer for Single Mode Optical Fiber	(1310±40)nm, (1550±40)nm	0.5nm	
		Slope at Zero Dispersion Wavelength					0.005ps/nm* km	
30	Network Analyzer	Source Frequency Range and Accuracy	0419 14	Network Analyzer /8753C, 8753E	TMC-XZ-01-005 Calibration Specification for Network Analyzer	30kHz-18GHz	$\leq 10\text{MHz}$: 8.2×10^{-9}	
		Output Power Level Accuracy					$\leq 18\text{GHz}$: 5.8×10^{-9}	
30	Network Analyzer	Output Power Linearity	0419 14	Network Analyzer /8753C, 8753E	GJB/J3608-99 Verify regulation for automatic network analyzer	-70~+20dBm	$U=2u$ (come from level measure linearity of instrument under test)	
		Input Noise Floor Level					$U=2 \times \sqrt{u_1^2 + u_2^2}$ (u_2 come from level measure accuracy of instrument under test)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Test Port Crosstalk				10Hz-18GHz	$U=2 \times \sqrt{0.05^2 + u_2^2}$ (u ₂ come from level measure linearity of instrument under test)	
		System Verify With Standard Mismatches (S ₁₁)				18GHz; VSWR:1.2 /1.5/2.0	1.0% (k=2)	
		System Verify With Standard Mismatches (S ₂₂)				18GHz; VSWR:1.2 /1.5/2.0	1.0% (k=2)	
		System Verify With Standard Attenuator				DC~18GHz/10dB~110dB	0.14dB (k=2)	
		System Verify With Standard Airline				DC~18GHz	0.2° (k=2)	
31	RF Channel Emulator	Internal Local Oscillator Accuracy	0419 14	RF Channel Emulator / TAS4500	TMC-XZ-01-006 Calibration Specification for RF Channel Emulator	10Hz-4GHz	5.8×10 ⁻⁹ (k=2)	
		Path Loss				250kHz-4GHz,0~80dB	0.14dB (k=2)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Rayleigh Fading (Frequency Domain)				250kHz-4GHz	1.94Hz ($k=2$)	
		Frequency Shift				250kHz-4GHz	1.94Hz ($k=2$)	
32	TDMA-GSM radio Communication Tester	Reference oscillator frequency Accuracy	0419 14	GSM Radio Communication Test set/ Agilent8960, CMU200, CMD55	JJF 1131-2005 Calibration Specification for GSM Radio Communication TDMA-GSM Testers TMC-XZ-02-007 Calibration Specification for GSM Radio Communication Testers	10MHz-13MHz	8.2×10^{-9} ($k=2$)	
		RF Generator Frequency Accuracy				100MHz-3GHz	5.8×10^{-9} ($k=2$)	
		RF Generator Level Accuracy				10Hz-3GHz/0dBm ~ -120dBm	\geq -50dBm:0.22dB ($k=2$) $<$ -50dBm:0.26dB ($k=2$)	
		RF Generator Harmonic Spectral Purity				10Hz-6.6GHz	0.4dB / 0.8dB ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
32	TDMA-GSM radio Communication Tester	GSM Modulation Accuracy	0419 14	GSM Radio Communication Test set/ Agilent8960, CMU200,C MD55	JJF 1131-2005 Calibration Specification for GSM Radio Communication TDMA-GSM Testers TMC-XZ-02-007 Calibration Specification for GSM Radio Communication Testers	DC~2.65 GHz	Peak Phase Error: 1° ($k=2$); RMS Phase Error: 0.4° ($k=2$); Mag error:0.6%; Frequency Error: 0.6 Hz ($k=2$)	
		RF Analyzer Power Accuracy				250kHz-4 GHz	0.18dB ($k=2$)	
		GSM Analyzer Accuracy				250kHz-4GHz	Peak Phase Error: 1.4° ($k=2$) RMS Phase Error: 0.3° ($k=2$) Frequency Error: 1.0Hz ($k=2$)	
		GSM Analyzer PVT(Power Vs Time)				250kHz-4 GHz	0.08dB ($k=2$)	
		GSM Analyzer ORFS (Output RF Spectrum)				250kHz-4GHz	0.08dB ($k=2$)	
		AF Generator Frequency Accuracy				10Hz-20kHz	0.0006Hz ($k=2$)	
		AF Generator Level Accuracy				100Hz~20kHz/100 mV~5V	0.12% ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
32	TDMA-GSM radio Communication Tester	AF Analyzer Frequency Accuracy	0419 14	GSM Radio Communication Test set/ Agilent8960, CMU200, C MD55	JJF 1131-2005 Calibration Specification for GSM Radio Communication TDMA-GSM Testers TMC-XZ-02-007 Calibration Specification for GSM Radio Communication Testers	100Hz-20kHz	0.006Hz ($k=2$)	
		AF Analyzer Level Accuracy				100Hz~20kHz/100mV~5V	0.12% ($k=2$)	
		VSWR				3MHz~6GHz	0.02 ($k=2$)	
		RF signal generator SSB phase noise	Spectrum Analyzer E4440A			JJF 1131-2005 Calibration Specification for GSM Radio Communication TDMA-GSM Testers TMC-XZ-02-007 Calibration Specification for GSM Radio Communication Testers	Frequency range: 3Hz~26.5GHz Level range: 30~-155 dBm	Level accuracy: 0.25 dB+ frequency response
	RF analyzer frequency measurement accuracy	0419 14	Signal generator/ E4433B	JJF 1131-2005 Calibration Specification for GSM Radio Communication TDMA-GSM Testers TMC-XZ-02-007 Calibration Specification for GSM Radio Communication Testers	Frequency range: 250kHz~4GHz	1.5×10^{-8}		
	AF signal generator output distortion		AF distortion analyzer/8903B		100Hz~20kHz	0.06% ($k=2$)		
	AF analyzer distortion		/DSJ-90A		10Hz~10kHz	Max permitted error: $\pm 10\%$		
	33	CDMA Digital Radio Communication Testers	Reference oscillator frequency Accuracy	0419 14	CDMA Digital Radio Communication Testers /Agilent8960, CMU200	JJF1177-2007 Calibration Specification of CDMA Digital Radio Communication Testers	10MHz-13MHz	8.2×10^{-9} ($k=2$)
RF Generator Frequency Accuracy			100MHz-3GHz				5.8×10^{-9} ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
33	CDMA Digital Radio Communication Testers	RF Generator Level Accuracy	0419 14	CDMA Digital Radio Communication Testers /Agilent8960, CMU200	JJF1177-2007 Calibration Specification of CDMA Digital Radio Communication Testers	10Hz-3GHz/0dBm~120dBm	\geq -50dBm:0.22dB ($k=2$) <-50dBm:0.26dB ($k=2$)	
		RF Generator Harmonic Spectral Purity				10Hz-6.6GHz	0.4dB / 0.8dB ($k=2$)	
		CDMA Modulation Accuracy				DC~26.5GHz	Rho:0.0011 ($k=2$) EVM:0.6% ($k=2$)	
		Occupied BW				DC~26.5GHz	0.016MHz ($k=2$)	
		CDMA Generator Level Accuracy				DC~26.5GHz	\geq -50dBm:0.26dB ($k=2$) <-50dBm:0.42dB ($k=2$)	
		RF Analyzer Level Accuracy				250kHz-4GHz	0.18dB ($k=2$)	
		AF Generator Frequency Accuracy				10Hz-20kHz	0.0006Hz ($k=2$)	
		AF Generator Level Accuracy				100Hz~20kHz/100mV~5V	0.12% ($k=2$)	
		AF Analyzer Frequency Accuracy				100Hz-20kHz	0.006Hz ($k=2$)	
		AF Analyzer Level Accuracy				100Hz~20kHz/100mV~5V	0.12% ($k=2$)	
		VSWR				0.3MHz~6GHz	0.02 ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		SSB Phase Noise				Frequency: 150kHz~18GHz Level:-130~+30dBm	1.2dB ($k=2$)	
33	CDMA Digital Radio Communication Testers	Code Domain Power	0419 14	CDMA Digital Radio Communication Testers /Agilent8960, CMU200	JJF1177-2007 Calibration Specification of CDMA Digital Radio Communication Testers	Frequency: 150kHz~18GHz Level:-130~+30dBm	0.50dB ($k=2$)	
		ACPR				Frequency: 150kHz~18GHz Level:-130~+30dBm	0.50dB ($k=2$)	
		CDMA Analyzer Digital Demodulation Quality Parameters				$\pm(0.5\text{dB}\sim 0.9\text{dB})$	Rho:0.0005 ($k=2$) EVM:0.5% ($k=2$) Frequency Error:1.2Hz ($k=2$) Phase Error:12 mrad ($k=2$)	
34	PHS Radio Communication Analyzer	Reference oscillator frequency Accuracy	0419 14	PHS Radio Communication Analyzer /MT8801C	TMC-XZ-01-009 Calibration Specification for PHS Radio Communication Analyzer	10MHz-13MHz	8.2×10^{-9} ($k=2$)	
		RF Generator Frequency Accuracy				100MHz-3GHz	5.8×10^{-9} ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		RF Generator Level Accuracy				10Hz-3GHz/0dBm~120dBm	\geq -50dBm:0.22dB ($k=2$) $<$ -50dBm:0.26dB ($k=2$)	
		RF Generator Harmonic Spectral Purity				10Hz-6.6GHz	0.4dB / 0.8dB ($k=2$)	
34	PHS Radio Communication Analyzer	PHS Modulation Accuracy	041914	PHS Radio Communication Analyzer /MT8801C	TMC-XZ-01-009 Calibration Specification for PHS Radio Communication Analyzer	DC~26.5GHz	EVM:0.6% ($k=2$)	
		RF Analyzer Level Accuracy				250kHz-4GHz	0.18dB ($k=2$)	
		Carrier OFF Power Measure				250kHz-4GHz	U=2u(u come from level measure Accuracy of instrument under test))	
		Adjacent Leak Power Measure				250kHz-4GHz	U=2u(U=2u (come from level measure linearity of instrument under test))	
		AF Generator Frequency Accuracy				10Hz-20kHz	0.0006Hz ($k=2$)	
		AF Generator Level Accuracy				100Hz~20kHz/100mV~5V	0.12% ($k=2$)	
		AF Analyzer Frequency Accuracy				100Hz-20kHz	0.006Hz ($k=2$)	

№	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		AF Analyzer Level Accuracy				100Hz~20kHz/100mV~5V	0.12% ($k=2$)	
		VSWR				0.3MHz~6GHz	0.02 ($k=2$)	
35	Coaxial power standard feed-through power mount	Verification factor	041914	1109	JJG (YD) 001-89 1109 Verification regulation for power mount	0.01~18GHz 0.001~10mW	3% ($k=2$)	
36	power mount	Verification factor	041914	E4413A, 8481A ect.	GJB/J3598-99 Verification regulation for lower power mount	0.01~18GHz 0.001~10mW	3% ($k=2$)	
37	ESD generator	ESD Voltage	041914	ESD generator / NSG435, dito	GB/T 17626.2-2006 Electromagnetic compatibility-Testing and measurement techniques- Electrostatic discharge immunity test Clause 6	-16.5kV~16.5kV	3.8% ($k=2$)	
		Rise time t_r with discharge switch				2ps~10s	37ps($k=2$)	
		First peak current of discharge				-80A~80A	2.5% ($k=2$)	
		Current at 30 ns				-80A~80A	2.5% ($k=2$)	
		Current at 60 ns				-80A~80A	2.5% ($k=2$)	
38	Signal Generator	Internal crystal Generator	040416	8648A,SMG L,SMP04	JJG173-2003 Signal Generator	100kHz, 1MHz, 5MHz, 10MHz	1×10^{-12} /s ($k=2$)	
		Frequency				9kHz~40GHz	0.58mHz~230Hz ($k=2$)	
		Output Level				-130~+30dBm	0.02~0.45dB ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Am				(1~99)%	1.2% ($k=2$)	
		Fm				(0~400) kHz	1.2% ($k=2$)	
		Φ m				(0~400) rad	3.5% ($k=2$)	
		Residal Am				(1~99)%	1.2% ($k=2$)	
		Residal Fm				(0~400) kHz	1.2% ($k=2$)	
		At Am Modulation with Fm				(0~400)kHz	1.2% ($k=2$)	
38	Signal Generator	At Fm Modulation with Am	0404 16	8648A,SMG L,SMP04	JJG173-2003 Signal Generator	(1~99)%	1.2% ($k=2$)	
		modulation Demodulated distortion				20Hz~100kHz	(2.4~24)% ($k=2$)	
		Harmonic				9kHz~13.25GHz	(0.79~1.5) dB ($k=2$)	
		Non Harmonics				9kHz~13.25GHz	(0.79~1.5) dB ($k=2$)	
		1/2 Harmonics				9kHz~13.25GHz	(0.79~1.5) dB ($k=2$)	
		Internal modulation generator frequency				0.01Hz~100kHz	0.58mHz ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Internal modulation generator level				10mV~10V	(0.12~0.26)% ($k=2$)	
		SSB phase Noise				9kHz~26.5GHz	0.34dB ($k=2$)	
		Pulse on/off ratio				9kHz~26.5GHz	0.34dB ($k=2$)	
		Pulse modulation Rise/fall time				BW: 20GHz Time Base: 20ps~1s	37ps($k=2$)	
39	Earth Resistance Meters	Display Errors	0409	ZC-7 ZD-8 4105A	JJG366-2004 Resistance Meters	(0.1~1000) Ω	(0.01~0.2) Ω ($k=2$)	
40	Network performance Analyzer	Electrical Interface Test	0419 14	Network performance Analyzer: Smart Bits / IXIA 400T etc.	JJF(YD)003-2006 Calibration Regulation of Data Network Performance Tester	Frequency 51.2kHz~240MHz	1dB ($k=2$)	
		The return loss at the input port						
		Maximum peak-to-peak jitter at an input port				Jitter frequency 20Hz~20MHz Jitter amplitude 0~20UIpp	3.5% ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note	
		Pulse shape at output				HDB3、CMI	Amplitude (0.01~0.03)V ($k=2$) Time Interval (0.1~1)ns ($k=2$)		
		Maximum peak-to-peak jitter at an output port				Jitter amplitude 0~10UIpp	5.8% ($k=2$)		
		Frequency (or Rate)				2M~622M	2×10^{-7} ($k=2$)		
40	Network performance Analyzer	Electrical Interface Test	0419 14	Network performance Analyzer: Smart Bits / IXIA 400T etc.	JJF(YD)003-2006 Calibration Regulation of Data Network Performance Tester	Optical wavelength	800~1600nm	1nm ($k=2$)	
		Maximum spectrum width							
		Average optical power				-80dBm~+3dBm	2% ($k=2$)		
		Minimum sensitivity							
		Maximum bit rate offset of optical signal at input				2M~622M	jitter: $\pm 5\%$ \times measure value ± 0.1		

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Optical Interface Test						
		Maximum peak-to-peak jitter at an input port				2M~622M	jitter: $\pm 5\%$ \times measure value ± 0.1	
		Maximum peak-to-peak jitter at an output port						
		Minimum extinction ratio				155M~622M	1% ($k=2$)	
		Sys mask				622M~2.5G	0.8% ($k=2$)	
		Rise time						
		Fall time						
		jitter						
40	Network performance Analyzer	Transfer performance: All parameters	0419 14	Network performance Analyzer: Smart Bits / IXIA 400T etc.	JJF(YD)003-2006 Calibration Regulation of Data Network Performance Tester	10/100M interface	100ns ($k=2$)	
		Coding Function: All parameters				10/100Met hernet		
		Coding				Ethernet/IP /TCP/UDP /ARP/ICM P/IPX/ cell of ATM UNI /IP/TCP/UDP over ATM AAL5		

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note	
		Decoding				Ethernet/IP /TCP/UDP /ARP/ICMP/IPX the cell of ATM UNI /IP/TCP/UDP over ATM AAL5			
		Transmission rate of Data packets				发送速率: 10Mbps 100Mbps 1000Mbps			5.6×10^{-13} ($k=2$)
		The latency of transmission data				接口速率: 10Mbps 100Mbps 1000Mbps			$0.9 \mu\text{s}$ ($k=2$)
		Check the functions				Throughput/ Packet loss/Back to Back/ Statistic			
41	Dosimetric Probe Calibration System	Linearity	0427	Dosimetric Probe Calibration System Type: SACAL	IEEE1528-2003: IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques Annex A IEC 62209-1- 2005: Evaluation of Human Exposure to	0.01-100W/kg	0.125dB ($k=2$)		
		sensitivity				300MHz-6GHz	0.2dB ($k=2$)		
		Lower detection limit				0.01W/kg	0.1dB ($k=2$)		
		Isotropy				$0-360^\circ$	0.19dB ($k=2$)		
		Spatial resolution				0.01W/kg	0.1dB ($k=2$)		
		Response time				1W/kg	0.1dB ($k=2$)		

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Boundary effect			Radio Frequency Fields from Handheld and Body-Mounted Wireless Communication Devices in the Frequency Range of 300 MHz to 6 GHz. Annex B	300MHz-6GHz	0.1dB ($k=2$)	
42	Antenna parameters	Gain、Antenna Factor	041903	Network Analyzer Agilent N5032A	IEEE 149-1979 IEEE Standard Test Procedures for Antennas Clause 12	(1-2)GHz	0.6dB ($k=2$)	
						(2-4)GHz	1.0dB ($k=2$)	
						(4-4.5) GHz	1.5dB ($k=2$)	
						(4.5-7.5) GHz	0.9dB ($k=2$)	
						(7.5-8) GHz	1.8dB ($k=2$)	
						(8-18) GHz	2.5dB ($k=2$)	
43	Power Meter	Indicator Accuracy	041008	EPM Series Power Meter	TMC-XZ-01-011 《Power Meter Calibration regulation》	(20~15834)mV	0.9% ($k=2$)	
		Reference Level				1mW	0.8% ($k=2$)	
44	Vector signal Analyzer	Frequency Measure	041914	89441A etc	Calibration specification for Vector signal Analyzer JJF1128-2004	1Hz~40GHz	0.58uHz~2.4Hz ($k=2$)	
		Carrier Amplitude Measure				+20~-130dBm	(0.2~0.46) dB ($k=2$)	
		Carrier Amplitude linearity				+20~-110dBm	(0.2~0.46)dB ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Signal Output amplitude				+30~-130dBm	(0.2~0.46)dB ($k=2$)	
		Signal harmonic distortion				9kHz~13.25GHz	(0.8~1.5)dB ($k=2$)	
		error vector amplitude				DC To 4GHz	$\leq(0.6\sim 1.5)\%$ ($k=2$)	
		vector amplitude error				DC To 4GHz	$\leq(0.35\%\sim 1.5)\%$ ($k=2$)	
		Phase error				DC To 4GHz	$0.35^u\sim 0.7^u$ ($k=2$)	
		I/Q Origin Offset				DC To 4GHz	$\leq(0.6\sim 1.5)\%$ ($k=2$)	
		Both CH consistency of Measure				10dBm ~ -30dBm	Amp: 0.012 dB~0.14dB ($k=2$) Phase: 0.60deg ($k=2$)	
		Phase Noise of measure CH				Offset Freq: 100Hz ~100kHz	1.3dB ($k=2$)	
44	Vector signal Analyzer	Cross Talk	0419 14	89441A etc	Calibration specification for Vector signal Analyzer JJF1128-2004	Input Level: +20dBm	Source-to Input: 1.9dB ($k=2$) CH-to CH: 1.3dB ($k=2$)	
		Input channel Harmonic Distortion				26.5GHz	1.6dB ($k=2$)	
		Inter-modulation Distortion				1MHz<双音三阶互调 \leq 1MHz	1.8dB ($k=2$)	

№	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Input Rtn Loss				10MHz~20GHz	0.24dB ($k=2$)	
		Source Output Rtn Loss				10MHz~20GHz	0.24dB ($k=2$)	
		Freq Offset				10MHz~26.5GHz	1.0Hz ($k=2$)	
45	TD-SCDMA Signal Generator	Frequency	0416	Signal Generator: Agilent ESG, PSG series; R&S SMP, SMIQ series etc.	TMC-XZ-01-014 Calibration Regulation of TD-SCDMA Signal Generator	10Hz ~ 3GHz	5.8mHz ~ 0.18Hz ($k=2$)	
		Absolute Amplitude Accuracy				(10 ~ -130) dBm	0.22dBm ($k=2$)	
		Relative Amplitude Accuracy				(10 ~ -130) dBm	0.22dB ($k=2$)	
		Harmonics				SHI: (-82 ~ -100) dBc	(0.8 ~ 1.2)dB ($k=2$)	
		Non-harmonics				10MHz ~ 26.5GHz	(0.8 ~ 1.2)dB ($k=2$)	
		Sub-harmonics				10MHz ~ 26.5GHz	(0.8 ~ 1.2)dB ($k=2$)	
		TD-SCDMA Source Modulation accuracy				10MHz ~ 26.5GHz	Rho(ρ):0.001 1 ($k=2$) EVM: 0.6% ($k=2$)	
		OBW				10MHz ~ 26.5GHz	0.016MHz ($k=2$)	
46	TD-SCDMA Analyzer	TD-SCDMA Source Power Accuracy	0419	TD-SCDMA Analyzer: R&S FSQ, FSU and FSP(with option FS-K76 or FS-K77) series Agilent ESA,PSA series	TMC-XZ-01-015 Calibration Regulation of TD-SCDMA analyzer	10dBm ~ -120dBm	0.26dB ($k=2$) (\geq -50 dBm) 0.42dB ($k=2$) ($<$ -50dBm)	
		Reference frequency				10MHz	5.8mHz ($k=2$)	
		Frequency Accuracy				10Hz ~ 3GHz	(0.28 ~ 2.4)Hz ($k=2$)	
		Span				10kHz ~ 1GHz	2.9Hz ~ 76MHz ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Resolution Band-width		etc.		1kHz ~ 3MHz	75mHz ~ 150kHz ($k=2$)	
		Frequency Response of Input				$\pm 0.38 \sim \pm 2.50$ dB	0.20dB ($k=2$)	
		Frequency Error				10Hz ~ 3GHz	2.0×10^{-7} ($k=2$)	
		Phase Error				10Hz ~ 3GHz	0.12° ($k=2$)	
		Error of Vector Magnitude (E VM)				10Hz ~ 3GHz	0.18% ($k=2$)	
47	RF Coaxial Attenuator	Attenuation	0419	Attenuator: Anritsu MN72A etc.	TMC-XZ-01-016 Calibration Regulation of RF Coaxial Attenuator	frequency: 10MHz ~ 26.5GHz attenuation: (0 ~ 70)dB	0.16dB ($k=2$)	
		VSWR				frequency: 45MHz ~ 20GHz	0.01 ~ 0.03 ($k=2$)	
48	RF Coaxial Filter	Attenuation	0419	Filter: TIGER:TGF 221-5800 MHz_05 etc.	TMC-XZ-01-017 Calibration Regulation of RF Coaxial Filter	frequency: 10MHz ~ 26.5GHz attenuation: 0 ~ 70dB	0.16dB ($k=2$)	
		VSWR				frequency: 45MHz ~ 20GHz	0.01 ~ 0.03 ($k=2$)	
49	RF Coaxial Cable	Attenuation	0419	SUHNER: 104PEA etc.	TMC-XZ-01-018 Calibration Regulation of RF Coaxial Cable	frequency: 10MHz ~ 26.5GHz attenuation: (0 ~ 70)dB	0.16dB ($k=2$)	
		VSWR				frequency: 45MHz ~ 20GHz	0.01 ~ 0.03 ($k=2$)	
50	Logic Analyzer	Maximum rate of clock	0419	Agilent Technology: 1680 series\1690 s	JJG 957 -2000 《Verification Regulation for logic analyzer》	Time:400 MHz State: 200MHz	0.1% ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Setup time of Data		eries\16900 series for; Tektronix: TLA200 series\TLA5000 series		0~50ns	0.1% ($k=2$)	
		Hold time of Data				0~50ns	0.1% ($k=2$)	
		Capability of detect glitch				0.5ns	<1.5nm (or 0.02%) ($k=2$)	
		Input level				-20V~20V	3% ($k=2$)	
51	Communication Signal Analyzer	Optical bandwidth	0419	Agilent Technology: 86100 series Tektronix: CAS8000 series	JJG(YD) 054-2006 《Verification Regulation of Communication Signal Analyzer》 JJF 1057-1998 《Calibration Specification of Digital Storage Oscilloscope》 TMC-XZ-01-012 《Verification Regulation of Communication Signal Analyzer (Optical Input Module)》	Less than 20GHz	2dB ($k=2$)	
		Accuracy of optical power measure				(0~30) dBm	6% ($k=2$)	
		Optical return loss				More than 30dB	1dB ($k=2$)	
		Optical sensitivity of O/E module				(0~-30) dBm	0.2dBm ($k=2$)	
		Insert loss of O/E module				(0~-30) dBm	0.2dBm ($k=2$)	
		Electric bandwidth				Less than 20GHz	2dB ($k=2$)	
		ΔT time measure				Time base 0.5ns—5s	$\pm 0.01\%$ ($k=2$)	
		ΔV Voltage measure				amplitude 40 μ V—200 V	$\pm 0.29\%$ ($k=2$)	
		Transient response				more than 75ps	36ps ($k=2$)	
52	Protocol Analyzer	Electrical Interface Test	0419	Protocol Analyzer J2300C、interwatch 95000、AX/4000、RADCOM series	JJF(YD)004-2006 Calibration Regulation of Network Protocol Analyzer	(6~12.7) dB	1dB ($k=2$)	
		Allow loss				(18~20) dB	1dB ($k=2$)	
		Minimum signal-to-interference ratio				Frequency 51.2kHz~240MHz	1dB ($k=2$)	
		The return loss at the input port						

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Rate offset at input				大于± 50×10 ⁻⁶	1×10 ⁻⁶ (k=2)	
		Maximum peak-to-peak jitter at an input port				Jitter frequency 20Hz~ 20MHz Jitter amplitude 0~20UIpp	3.5% (k=2)	
		Pulse shape at output				HDB3、 CMI	Amplitude (0.01~ 0.03)V (k=2) Time Interval (0.1~1)ns (k=2)	
		Maximum peak-to-peak jitter at an output port				Jitter amplitude 0~10UIpp	5.8% (k=2)	
		Frequency (or Rate)				2M~ 622M	2×10 ⁻⁷ (k=2)	
52	Protocol Analyzer	Optical Interface Test	0419	Protocol Analyzer J2300C、interwatch 95000、AX/4000、RADCOM series	JJF(YD)004-2006 Calibration Regulation of Network Protocol Analyzer	(800~ 1600) nm	1nm (k=2)	
		Optical wavelength				-80dBm~ +3dBm	2% (k=2)	
		Maximum spectrum width						
		Average optical power						
Minimum sensitivity								

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Maximum bit rate offset of optical signal at input				2M~622M	5.8% ($k=2$)	
		Maximum peak-to-peak jitter at an input port				2M~622M	5.8% ($k=2$)	
		Maximum peak-to-peak jitter at an output port				155M~622M 622M~2.5G	1% ($k=2$) 0.8% ($k=2$)	
		Minimum extinction ratio						
		Sys mask						
		Rise time						
		Fail time						
		Jitter						
53	Digital Signal Generator	Frequency	0416	E4433B	JJF1174-2007 Calibration Specifications for Digital Signal Generator	9kHz~40GHz	3.4×10^{-10} ($k=2$)	
		Maximum Output high Level				(+30~0) dBm	0.26dB ($k=2$)	
		Output High Level				(+30~0) dBm	0.26dB ($k=2$)	
		Output Low Level				<0dBm	(0.34~0.40)dB ($k=2$)	
		AM				(0~99)%	1.2% ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		FM				(0~400) kHz	1.2% ($k=2$)	
		Φ M				(0~400) rad	3.5% ($k=2$)	
		Residual AM				(0~99)%	0.02% ($k=2$)	
		Residual FM				(0~400) kHz	9.2Hz rms ($k=2$)	
		At AM modulation with FM				(0~400) kHz	1.2% ($k=2$)	
		At FM modulation with AM				(0~99)%	1.2% ($k=2$)	
		Modulation demodulation Distortion				(0.01~100) % (20Hz~100kHz)	2.4%~24% ($k=2$)	
		Harmonic				DC To 26.5GHz	1.5dB ($k=2$)	
		Non-Harmonic				DC To 26.5GHz	1.5dB ($k=2$)	
		1/2 Harmonic				DC To 26.5GHz	1.5dB ($k=2$)	
		SSB Phase Noise				DC To 26.5GHz	(1.7~2.0)dB ($k=2$)	
53	Digital Signal Generator	Internal Modulation generator Frequency	0416	E4433B	JJF1174-2007 Calibration Specifications of Digital Signal Generator	0.01Hz~100kHz	3.4×10^{-10} ($k=2$)	
		Internal Modulation generator level				1mV~10V	0.13%~0.60% ($k=2$)	
		Pulse Modulation On/off Ratio				9kHz~26.5GHz	0.42dB ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Pulse Modulation Rise/fall time				Bandwidth: 20GHz Internal reference oscillator: 20ps~1s	22ps ($k=2$)	
		Error Vector amplitude(TDMA digital Modulation, GSM、PDC、NADC、TETRA、PHS mode)				DC To 26.5GHz	0.58% ($k=2$)	
		Vector amplitude Error(TDMA digital Modulation, GSM、PDC、NADC、TETRA、PHS mode)				DC To 26.5GHz	0.58% ($k=2$)	
		Phase Error (TDMA digital Modulation, GSM、PDC、NADC、TETRA、PHS mode)				DC To 26.5GHz	0.40deg ($k=2$)	
53	Digital Signal Generator	Frequency Error(TDMA digital Modulation, GSM、PDC、NADC、TETRA、PHS mode)	0416	E4433B	JJF1174-2007 Calibration Specifications of Digital Signal Generator	DC To 26.5GHz	(1.0~9.2)Hz ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Vector amplitude Error(TDMA digital Modulation, DECT mode)				DC To 26.5GHz	1.2% ($k=2$)	
		FSK Error(TDMA digital Modulation, DECT mode)				DC To 26.5GHz	1.7% ($k=2$)	
		Frequency Deviation (T DMA digital Modulation, DECT mode)				DC To 26.5GHz	1.2% ($k=2$)	
		Frequency Error(TDMA digital Modulation, DECT mode)				DC To 26.5GHz	(1.0~9.2)Hz ($k=2$)	
53	Digital Signal Generator	Error Vector amplitude (digital Modulation, CDMA mode)	0416	E4433B	JJF1174-2007 Calibration Specifications of Digital Signal Generator	DC To 26.5GHz	1.2% ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
		Vector amplitude Error (digital Modulation, CDMA mode)				DC To 26.5GHz	1.2% ($k=2$)	
		Phase Error (digital Modulation, CDMA mode)				DC To 26.5GHz	0.66deg ($k=2$)	
		Rho (digital Modulation, CDMA mode)				DC To 26.5GHz	1.2% ($k=2$)	
		Frequency Error (digital Modulation, CDMA mode)				DC To 26.5GHz	(1.0—9.0)Hz ($k=2$)	
		ACPR (digital Modulation, CDMA mode)				DC To 26.5GHz	1.5dB ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
53	Digital Signal Generator	Error Vector amplitude (user define digital Modulation ,Mod mode: QPSK、 $\pi/4$ DQPS K、16QAM、BPSK、)	0416	E4433B	JJF1174-2007 Calibration Specifications of Digital Signal Generator	DC To 26.5GHz	1.2% ($k=2$)	
		Vector amplitude Error (user define digital Modulation ,Mod mode: QPSK、 $\pi/4$ DQPS K、16QAM、BPSK、)				DC To 26.5GHz	1.2% ($k=2$)	
		Phase Error (user define digital Modulation ,Mod mode: QPSK、 $\pi/4$ DQPS K、16QAM、BPSK、)				DC To 26.5GHz	0.66deg ($k=2$)	
		Frequency Error (user define digital Modulation ,Mod mode: QPSK、 $\pi/4$ DQPS K、16QAM、BPSK、)				DC To 26.5GHz	(1.0~9.2)Hz ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
53	Digital Signal Generator	Vector amplitude Error(user define digital Modulation ,Mod mode: FSK)	0416	E4433B	JJF1174-2007 Calibration Specifications of Digital Signal Generator	DC To 26.5GHz	1.2% ($k=2$)	
		FSK offset (user define digital Modulation ,Mod mode: FSK)				DC To 26.5GHz	1.7% ($k=2$)	
		Frequency Deviation (user define digital Modulation ,Mod mode: FSK)				DC To 26.5GHz	1.2% ($k=2$)	
		Frequency Error (user define digital Modulation ,Mod mode: FSK)				DC To 26.5GHz	(1.0~9.2)Hz ($k=2$)	
		Phase Error (user define digital Modulation ,Mod mode: MSK)				DC To 26.5GHz	0.66deg ($k=2$)	
		Error Vector amplitude (user define digital Modulation ,Mod mode: IS95 QPSK)				DC To 26.5GHz	1.2% ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
53	Digital Signal Generator	Vector amplitude Error (user define digital Modulation ,Mod mode: IS95 QPSK)	0416	E4433B	JJF1174-2007 Calibration Specifications of Digital Signal Generator	DC To 26.5GHz	1.2% ($k=2$)	
		Phase Error (user define digital Modulation ,Mod mode: IS95 QPSK)				DC To 26.5GHz	0.66deg ($k=2$)	
		Frequency Error (user define digital Modulation ,Mod mode: IS95 QPSK)				DC To 26.5GHz	(1.0~9.2)Hz ($k=2$)	
		Rho (user define digital Modulation ,Mod mode: IS95 QPSK)				DC To 26.5GHz	1.2% ($k=2$)	
		ACPR (user define digital Modulation ,Mod mode: IS95 QPSK)				DC To 26.5GHz	1.5dB ($k=2$)	
		Error Vector amplitude (Inter Base band IQ digit modulation, Standard: GSM、PDC、NADC、TETRA、PHS)				DC To 26.5GHz	0.58% ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
53	Digital Signal Generator	Vector amplitude Error (Inter Base band IQ digit modulation, Standard: GSM、PDC、NADC、TETRA、PHS)	0416	E4433B	JJF1174-2007 Calibration Specifications of Digital Signal Generator	DC To 26.5GHz	0.58% ($k=2$)	
		Phase Error (Inter I Base band IQ digit modulation, Standard: GSM、PDC、NADC、TETRA、PHS)				DC To 26.5GHz	0.40deg ($k=2$)	
		Frequency Error (Inter Base band IQ digit modulation, Standard: GSM、PDC、NADC、TETRA、PHS)				DC To 26.5GHz	(1.0~9.2)Hz ($k=2$)	
		Vector amplitude Error (Inter Base band IQ digit modulation, Standard: DECT)				DC To 26.5GHz	1.2% ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
53	Digital Signal Generator	FSK Error (Inter Base band IQ digit modulation, Standard: DECT)	0416	E4433B	JJF1174-2007 Calibration Specifications of Digital Signal Generator	DC To 26.5GHz	1.7% ($k=2$)	
		Frequency Deviation error (Inter Base band IQ digit modulation, Standard: DECT)				DC To 26.5GHz	1.2% ($k=2$)	
		Frequency Error (Inter Base band IQ digit modulation, Standard: DECT)				DC To 26.5GHz	(1.0~9.2)Hz ($k=2$)	
		Error Vector amplitude (Inter Base band IQ digit modulation, Standard: CDMA)				DC To 26.5GHz	1.2% ($k=2$)	
		Vector amplitude Error (Inter Base band IQ digit modulation, Standard: CDMA)				DC To 26.5GHz	1.2% ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
53	Digital Signal Generator	Phase Error (Inter Base band IQ digit modulation, Standard: CDMA)	0416	E4433B	JJF1174-2007 Calibration Specifications of Digital Signal Generator	DC To 26.5GHz	0.66deg ($k=2$)	
		Rho (Inter Base band IQ digit modulation, Standard: CDMA)				DC To 26.5GHz	1.2% ($k=2$)	
		Frequency Error (Inter Base band IQ digit modulation, standard CDMA)				DC To 26.5GHz	(1.0~9.2)Hz ($k=2$)	
		ACPR (Inter Base band IQ digit modulation, Standard: CDMA)				DC To 26.5GHz	1.5dB ($k=2$)	
		External IQ Modulation, freq response				DC To 26.5GHz	(1.7~2.0)dB ($k=2$)	
54	TD-SCDMA Radio Communication Testers	Reference output frequency accuracy	0419 14	TD-SCDMA radio Communication Tester/Star Point SP6010	Calibration Specification of TD-SCDMA Radio Communication Testers TMC-XZ-01-024	10MHz-13MHz	8.2×10^{-9}	
		RF signal generator frequency accuracy				100MHz-3GHz	5.8×10^{-9}	
		RF signal generator output power accuracy				10Hz-3GHz/0dBm~120dBm	≥ -50 dBm: 0.22dB <-50dBm: 0.26dB	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
54	TD-SCDMA Radio Communication Testers	RF signal generator spectrum purity measurement	0419 14	TD-SCDMA radio Communication Tester/Star Point SP6010	Calibration Specification of TD-SCDMA Radio Communication Testers TMC-XZ-01-024	10Hz-6.6GHz	≤3GHz: 0.4dB >3GHz:0.8dB	
		TD-SCDMA signal generator digital modulation accuracy				3Hz~26.5GHz	Rho: 0.0011; EVM: 0.6 %	
		Occupied band -width				3Hz~26.5GHz	0.016MHz	
		RF analyzer power measurement accuracy				250kHz-4GHz	-50 dBm ~ 14dBm: 0.18dB 15dBm~ 30dBm: 0.26dB	
		TD-SCDMA modulation analyzer measurement accuracy				250kHz-4GHz	Frequency error: 0.3Hz EVM:0.6%	
		AF signal generator frequent -cy accuracy				10Hz-20kHz	0.6mHz	
		AF signal generator output level accuracy				100Hz~20kHz/100mV~5V	0.06%	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
54	TD-SCDMA Radio Communication Testers	AF analyzer frequent -cy measure -ment accuracy	0419 14	TD-SCDMA radio Communicat ion Tester/Star Point SP6010	Calibration Specification of TD-SCDMA Radio Communication Testers TMC-XZ-01-024	100Hz-20kHz	6mHz	
		AF analyzer level measurement accuracy				100Hz~20kHz/100mV~5V	0.12%	
		Input/ Output port VSWR				0.3MHz~6GHz	0.02	
55	Measuring Receiver	Power calibration coefficient	0419 14	Measuring Receiver /HP8902A	JJF 1173-2007 Calibration Specification of Measuring Receivers	10MHz~18GHz	1.3%($k=2$)	
		Tuned level calibration				0dBm~-130dBm	Relative level:0.037dB($k=1.96$) absolute level: 0.16dB($k=2$)	
		FM frequency deviation				frequency deviation range: 0~400 kHz	65Hz ($k=1.96$)	
		FM demodulation frequency response				frequency deviation range: 0~400kHz	65Hz ($k=1.96$)	
		FM demodulation distortion				Modulation frequency range: 20Hz~200kHz	0.002%($k=2$)	
		Residual FM				Modulation frequency range: 20Hz~200kHz	1mHz($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
55	Measuring Receiver	AM rejection	0419 14	Measuring Receiver /HP8902A	JJF 1173-2007 Calibration Specification of Measuring Receivers	Modulation frequency range: 20Hz~200kHz	4mHz($k=2$)	
		PM phase deviation				Modulation frequency range: 20Hz~200kHz	0.037rad ($k=1.96$)	
		Phase deviation demodulation distortion				Modulation frequency range: 20Hz~200kHz	0.002%($k=2$)	
		Am depth calibration				5%~99%	0.04% ($k=1.96$)	
		AM demodulation frequency response				Modulation frequency range: 20Hz~200kHz	0.04% ($k=1.96$)	
		AM demodulation distortion				Modulation frequency range: 20Hz~100kHz	0.002%($k=2$)	
		Residual AM calibration				Modulation frequency range: 20Hz~100kHz	0.012%($k=2$)	
		FM rejection				Modulation frequency range: 20Hz~100kHz	0.026%($k=2$)	
		Calibration of Frequency Range				frequency range: 250kHz~26.5GHz	1×10^{-8} ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
56	Cable and Antenna Analyzer	VSWR	0419 14	Cable and Antenna Analyzer: S331	Cable and Antenna Analyzer Calibration Criterion TMC-XZ-01-023 (2006)	Frequency : DC~18GHz	6.0%	
		Cable Loss				Frequency : DC~18GHz Cable Loss: 0dB~11dB	0.22 dB	
57	The Equipment for Temperature and Humidity	temperature	1517	PL-2G, SH-221 etc.	JJF 1101-2003 Calibration specification for the equipment of the environmental testing for temperature and humidity	-600C~3000C	0.48°C ($k=2.01$)	
		humidity	1517			10%RH~100%RH	2.4%RH ($k=1.96$)	
58	Digital Thermometer and Hygrometer	temperature	1501	(M288-CHT, TR0317 ect.)	JJG 2046-90 Verification scheme of measuring instruments for humidity	00C~600C	0.20C ($k=2$)	
		humidity	0431			10%RH~100%RH	1%RH ($k=2$)	
59	Vernier calipers	Extent	1303	AY1000152 0.01mm、 0.02mm、 0.05mm、 0.10mm	JJG30-2002 Verification Regulation Of Current Calipers	(10~300)mm	14μm ($k=2$)	
		Indication Error				(10-291.8)mm	0.02mm ($k=2$)	
		Measurement Surface Coarseness Degree				Ra (0.025-6.3)μm	6% ($k=2$)	
		Measurement Surface Flatness				100mm	linearity≤0.5mm ($k=2$)	
		Circular Inner Claw Basic Dimension and Parallelism				(10-291.8)mm ; (0-25)mm	0.02mm($k=2$) MPE: ±2μm ($k=2$)	

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note	
59	Vernier calipers	Blade Inner Claw Basic Dimension and Parallelism	1303	AY1000152 0.01mm、 0.02mm、 0.05mm、 0.10mm	JJG30-2002 Verification Regulation Of Current Calipers	(10-291.8)mm ; (0-25)mm	0.02mm($k=2$) MPE: $\pm 2\mu\text{m}$ ($k=2$)		
		Extent				(10~300)mm	8 μm ($k=2$)		
	Digital display caliper	Indication Error					(10-291.8)mm	0.02mm ($k=2$)	
		Measurement Surface Coarseness Degree				MAHR (0.01,0-150)mm	Ra (0.025-6.3) μm	6% ($k=2$)	
		Measurement Surface Flatness				0.01mm、 0.02mm、 0.05mm、 0.10mm	100mm	linearity ≤ 0.5 m m ($k=2$)	
		Circular Inner Claw Basic Dimension and Parallelism					(10-291.8)mm ; (0-25)mm	0.02mm($k=2$) MPE: $\pm 2\mu\text{m}$ ($k=2$)	
		Blade Inner Claw Basic Dimension and Parallelism					(10-291.8)mm ; (0-25)mm	0.02mm($k=2$) MPE: $\pm 2\mu\text{m}$ ($k=2$)	
60	Optical fiber and Optical fiber Parameters instrument	Refractive Index Profile	0419 14	SM Fibers G.652 G.655 MM Fibers Refraction Index Profile and Geometric Parameters Analyzer 2400	Verification Regulation of the Characterization Systems for the Refraction Index Profile and Geometric Parameters of Optical Fiber JJG895—1995	Optical Source: Power 1mW, Wavelength 632.8nm, He-Ne Optical Source Scan Least Step: 0.1 μm	Refractive Index Profile: 0.00025($k=2$) Radial Measure: 0.2 μm ($k=2$) Cladding Diameter: 0.1 μm ($k=2$) Core Diameter: 0.1 μm ($k=2$)		
		Cladding Diameter							
		Cladding Ovality							
		Concentrate of Cladding & Core							
		Numerical Adapter							

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note		
60	Optical fiber and Optical fiber Parameters instrument	Zero Dispersion Wavelength	0419 14	SM Fibers G.652 G.655 Chromatic Dispersion Analyzer CD400	Verification Regulation of Chromatic Dispersion Analyzer of Optical Fibers JJG(YD)060-2002	Wavelength Area: 1280nm~ 1335nm 1520nm~ 1580nm	Zero Dispersion Wavelength: 0.05nm ($k=2$) Chromatic Dispersion: 2% ($k=2$)			
		Chromatic Dispersion								
		Slope of Zero Dispersion Wavelength								
		Mode Diameter		SM Fibers G.652 G.655 Loss and Mode Field Diameter Analyzer 2200	Verification Regulation of the Characterization Systems for the Loss and Mode Field Diameter of Optical Fiber JJG896—1995	Type of Fiber on Test: SM Wavelength Area: 750~1750 nm Step of Wavelength: 0.2nm Dynamic Range: >34dB	Mode Diameter: 0.15 μ m($k=2$) Cut-off wavelength: 5nm($k=2$) Attenuation: 0.02dB($k=2$)			
		Attenuation								
		Cut-off wavelength								
61	Electrical Surge Generator	Peak voltage of open circuit	0409	Electrical Surge Generator AT-6kV/3kA	JJF (electron) 30803-2007 Electrical Surge Generator	(0~5.6)kV	4% ($k=2$)			
		Peak current of short circuit							(0~5)kA	3% ($k=2$)
		Rise time of open circuit							(0~5.6)kV (1~700) μ s	5% ($k=2$)
		Part time of open circuit							0~5.6kV (1~700) μ s	5% ($k=2$)
		Rise time of short circuit							(0~5)kA (1~700) μ s	3% ($k=2$)
		Part time of short circuit							(0~5)kA (1~700) μ s	4% ($k=2$)

No	Name of measuring instrument	Parameter	Code of Field	Category/ Typical Model	Name, Code of Calibration Regulation	Measuring Range	Best Measurement Capability (Expressed As An Uncertainty)	Note
62	Insulation Resistance meters	resistance	0410	ZC-5	JJG622-1997 Verification regulation for Megohmmeter JJG 1005-2005 Verification regulation for electronic insulation resistance meters	0.1k Ω ~100 G Ω	0.3% ($k=2$)	
		Voltage				50V~5kV	1% ($k=2$)	
63	Withstanding voltage tester	AC voltage and DC voltage	0410	CC2678	JJG795-2004 Verification regulation for withstanding voltage tester	(0.1000~15.000) kV	0.3% ($k=2$)	
		AC current and DC current				(0.500~240.0) mA	0.3% ($k=2$)	
		Distortion of AC voltage				0.50%~10.00%	2% ($k=2$)	
		Ripple voltage of DC voltage				0.50%~10.00%	2% ($k=2$)	
		Hold time of voltage				(1.00~999.99) s	0.8% ($k=2$)	
64	DC voltage Stable Source	Error of voltage indicator	0409	DH1715,DH1719 series	Verification regulation for DC Voltage Stable Source JJG (space flight) 6-1999	(0~100)V	0.02% ($k=2$)	
		Error of current indicator				(0~10)A	0.02% ($k=2$)	
		Voltage adjustment ratio				(0~100)%	0.02% ($k=2$)	
		Load adjustment ratio				(0~100)%	0.02% ($k=2$)	
		Short-term stability of output voltage				(0~100)%/10min	0.02% ($k=2$)	
		Ripple voltage				(0~100) mV	2% ($k=2$)	



中国合格评定国家认可委员会

实验室认可证书附件

(No. CNAS L0442)

名称: 信息产业部通信计量中心

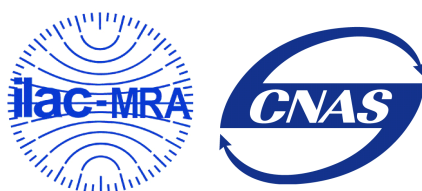
地址: 北京市海淀区花园北路 52 号 计量中心

签发日期: 2008 年 05 月 16 日

有效期至: 2009 年 09 月 12 日

附件 2 认可的授权签字人及其授权签字领域

序号	姓名	授权签字领域	备注
1	王南	通信仪表、温湿度及长度校准项目; 通信设备性能、电磁兼容性、防雷、安全性、电磁辐射、IP 网络设备检测项目	
2	孟艾立	通信仪表校准项目; 光通信设备、数字通信/模拟通信设备、数据通信设备、交换设备、电信设备计费, 防雷检测项目	
3	陈欣	通信仪表校准项目; 光通信设备、数字通信/模拟通信设备、数据通信设备、交换设备、电信设备计费, 防雷检测项目	
4	张颖艳	通信仪表校准项目; 光通信设备、数字通信/模拟通信设备、数据通信设备、交换设备、电信设备计费, 防雷检测项目	
5	卢民牛	通信仪表设备、温湿度及长度校准项目;通信设备性能、电磁兼容性、防雷、安全性、电磁辐射、IP 网络设备检测项目	
6	陆冰松	通信仪表、温湿度及长度校准项目;通信设备性能、电磁兼容性、防雷、安全性、电磁辐射、IP 网络设备检测项目	
7	肖雳	通信仪表、温湿度及长度校准项目;通信设备性能、电磁兼容性、防雷、安全性、电磁辐射、IP 网络设备检测项目	
8	张睿	通信仪表、温湿度及长度校准项目;通信设备性能、电磁兼容性、防雷、安全性、电磁辐射、IP 网络设备检测项目	
9	王勇	软件测评检测项目	
10	戈志勇	软件测评检测项目	
11	李刚	软件测评检测项目	



**CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT
APPENDIX OF LABORATORY ACCREDITATION CERTIFICATE**

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Date of issue: 2008-05-16

Date of expiry: 2009-09-12

APPENDIX2 LIST OF ACCREDITED SIGNATORY AND SCOPE

No	Name	Authorized field of signature	Note
1	Wang Nan	Verification and Calibration of telecommunication instrument, temperature, humidity and length; Performance, EMC, lightning protection, safety and electromagnetic radiation test of telecommunication equipment. Test of IP network equipment.	
2	Meng Aili	Verification and calibration of telecommunication instrument; Test of optical telecommunication equipment, digital/analog telecommunication equipment, data communication equipment, switch equipment, telecommunication equipment charging and lightning protection.	
3	Chen Xin	Verification and calibration of telecommunication instrument; Test of optical telecommunication equipment, digital/analog telecommunication equipment, data communication equipment, switch equipment, telecommunication equipment charging and lightning protection.	
4	Zhang Yingyan	Verification and calibration of telecommunication instrument; Test of optical telecommunication equipment, digital/analog telecommunication equipment, data communication equipment, switch equipment, telecommunication equipment charging and lightning protection.	

№	Name	Authorized field of signature	Note
5	Lu Minniu	Verification and Calibration of telecommunication instrument, temperature, humidity and length; Performance, EMC, lightning protection, safety and electromagnetic radiation test of telecommunication equipment. Test of IP network equipment.	
6	Lu Bingsong	Verification and Calibration of telecommunication instrument, temperature, humidity and length; Performance, EMC, lightning protection, safety and electromagnetic radiation test of telecommunication equipment. Test of IP network equipment.	
7	Xiao Li	Verification and Calibration of telecommunication instrument, temperature, humidity and length; Performance, EMC, lightning protection, safety and electromagnetic radiation test of telecommunication equipment. Test of IP network equipment.	
8	Zhang Rui	Verification and Calibration of telecommunication instrument, temperature, humidity and length; Performance, EMC, lightning protection, safety and electromagnetic radiation test of telecommunication equipment. Test of IP network equipment.	
9	Wang Yong	Software Verification	
10	Ge Zhiyong	Software Verification	
11	Li Gang	Software Verification	



**CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT
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Date of issue: 2008-05-16

Date of expiry: 2009-09-12

APPENDIX1-1 LIST OF ACCREDITED TESTING SCOPE

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
1	Electronics Product (EMC)	1	Radiated emission	1207	GB9254-1998 Information technology equipment-Radio disturbance characteristics-Limits and methods of measurement		
		2	Conducted emission				
		3	Conducted spurious emission		YD/T 1483-2006 Technical requirement and measurement method of spurious emission of radio equipments		
		4	Radiated spurious emission				
		5	Harmonic current emissions		GB 17625.1 - 2003 Electromagnetic Compatibility Limits- Limits for Harmonic current emissions (equipment input current≤16 A per phase)		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
1	Electronics Product (EMC)	6	Voltage fluctuations and flicker	1207	GB 17625.2 – 2007 Electromagnetic Compatibility(EMC) Limits- Limitation of voltage changes , Voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection		
		7	Electrostatic discharge immunity test		GB/T 17626.2-2006 Electromagnetic compatibility- Testing and measurement techniques-Electrostatic discharge immunity test		
		8	Radiated, radio-frequency, electromagnetic field immunity test		GB/T 17626.3-2006 Electromagnetic compatibility- Testing and measurement techniques- Radiated, radio-frequency, electromagnetic field immunity test	Accredited only for: frequency less than 4.2GHz	
		9	Electrical fast transient/ burst immunity test		GB/T 17626.4-1998 Electromagnetic compatibility- Testing and measurement techniques- Electrical fast transient/ burst immunity test		
		10	Surge immunity test		GB/T 17626.5-1999 Electromagnetic compatibility- Testing and measurement techniques- Surge immunity test		
		11	Immunity to conducted disturbances, induced by radio-frequency fields		GB/T 17626.6-1998 Electromagnetic compatibility- Testing and measurement techniques- Immunity to conducted disturbances, induced by radio-frequency fields		

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
1	Electronics Product (EMC)	12	Voltage dips, short interruptions and voltage variations immunity test	1207	GB/T 17626.11-1999 Electromagnetic compatibility Testing and measurement techniques Voltage dips, short interruptions and voltage variations immunity test		
2	900/1800MHzT DMA Mobile and portable radio and ancillary equipment	1	Radiated emission	1207	YD 1032-2000 Limits and Measurement Methods of Electromagnetic Compatibility for 900/1800MHz Digital Cellular Telecommunications System Part I: Mobile Station and Ancillary Equipment		
		2	Conducted emission				
		3	Conducted spurious emission				
		4	Radiated spurious emission				
		5	Electrostatic discharge immunity test				
		6	Radiated, radio-frequency, electromagnetic field immunity test				
		7	Electrical fast transient/ burst immunity test				
		8	Surge immunity test				
		9	Immunity to conducted disturbances, induced by radio-frequency fields				
		10	Voltage dips, short interruptions and voltage variations immunity test				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
3	CDMA Mobile station and Ancillary Equipment (EMC)	1	Radiated emission	1207	GB 19484.1 – 2004 Requirements and Measurement Methods of Electromagnetic Compatibility for 800MHz CDMA Digital Cellular Telecommunications System - Part 1: Mobile station and Ancillary Equipment		
		2	Conducted emission				
		3	Conducted spurious emission				
		4	Radiated spurious emission				
		5	Harmonic current emission				
		6	Voltage fluctuations and flicker				
		7	Electrostatic discharge immunity test				
		8	Radiated, radio-frequency, electromagnetic field immunity test				
		9	Electrical fast transient/ burst immunity test				
		10	Surge immunity test				
		11	Immunity to conducted disturbances, induced by radio-frequency fields				
		12	Voltage dips, short interruptions and voltage variations immunity test				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
4	Wireless Terminal (Human exposure to radio frequency fields)	1	Specific absorption rate (SAR)	0427	<p>GB 21288-2007 Limits for Human Local Exposure to Electromagnetic Fields Emitted by Mobile Phones</p> <p>YD/T 1644.1-2007 Human exposure to radio frequency fields from handheld and body-mounted wireless communication devices—human models, instrumentation, and procedures part 1: procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300MHz to 3GHz)</p> <p>EN 50360-2001: Product standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones.</p> <p>EN 50361-2001: Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones.</p> <p>ANSI C95.1-1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz</p>		

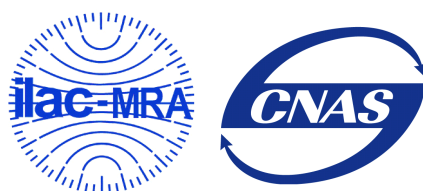
№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
4	Wireless Terminal (Human exposure to radio frequency fields)	1	Specific absorption rate (SAR)	0427	IEEE 1528-2003: DRAFT Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques IEC 62209-1(2005): Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear(frequency range of 300 MHz to 3 GHz).		
5	Information technology equipment (Safety)	1	Components	0509	GB4943-2001 Safety of information technology equipment	Except for three-phase powered equipment	
		2	Power interface				
		3	Markings and instructions				
		4	Protection from electric shock and energy hazards				
		5	SELV circuits				
		6	TNV circuits				
		7	Limited current circuits				
		8	Limited power sources				
		9	Provisions for earthing and bonding				
		10	Overcurrent and earth fault protection for primary circuits				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
5	Information technology equipment (Safety)	11	Safety interlocks	0509	GB4943-2001 Safety of information technology equipment	Except for :three-phase powered equipment	
		12	Electrical insulation				
		13	Cleanances,creepage distances and diatances through insulation				
		14	General				
		15	Connection to a mains supply				
		16	Wiring terminals for connection of external conductors			Except for : three-phase powered equipment	
		17	Disconnection from the mains supply				
		18	Interconnection of equipment				
		19	Stability				
		20	Mechanical strength			Except for :cathode ray tubes and wall or ceiling mounted equipment	
		21	Design and constrction			Except for :radiation	
		22	Protection against harzardous moving parts			Except for :three-phase powered equipment	
		23	Termal requirment				
24	Openings in enclosures						

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
5	Information technology equipment (Safety)	25	Resistance to fire	0509	GB4943-2001 Safety of information technology equipment	Except for :high current arc test, hot-wire ignition test and hot flaming oil test	
		26	Touch current and protect conductor current				
		27	Electric strength				
		28	Abnormal operating and fault conditions				
		29	Protection of telecommunication network service persons, and users of other equipment connected to the network ,from hazards in the equipment			Except for :three-phase powered equipment	
		30	Protection of equipment users from overvoltages on telecommunication networks				
		31	Protection of the telecommunication wiring system from overheating				
6	Telecommunication terminal (Safety)	1	Components General requirement	0511	YD/T 965-1998 《 The safety requirement and test method for telecommunication terminal equipment》		
		2	Instruction and marking requirement				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
6	Telecommunication terminal (Safety)	3	Structure design requirement	0511	YD/T 965-1998 《The safety requirement and test method for telecommunication terminal equipment》		
		4	Electric design requirement				
		5	Material requirement				
		6	Test General requirement				
		7	Temperature cycling test				
		8	Marking durability test				
		9	Stability test				
		10	Steady test for 30N				
		11	Steady test for 250N				
		12	Impact test				
		13	Drop test				
		14	Stress relief test				
		15	Knob flexible				
		16	Direct plug-in equipment				
		17	Resistance to fire				Except for :high current arc test, hot-wire ignition test and hot flaming oil test
		18	Protection access to danger test				
		19	Low resistance to the earth test				
		20	Cord anchorages				
		21	Cleanances,creepage distances and diatances through insulation				

№	Name of Products, Type of materials	Items, Parameter, Types of tests		Code of field	Name, Code of Specification, Standard or method used	Restriction or limitation	Note
		№	Name				
6	Telecommunication terminal (Safety)	22	Install the connection port line test	0511	YD/T 965-1998 《The safety requirement and test method for telecommunication terminal equipment》		
		23	Steady-state current test for power port				
		24	Capacitance discharge for power port				
		25	Electric strength				
		26	Impulse test				
		27	(TNV)Electric strength				
		28	Test for separation between a telecommunication network and earth				
		29	Temperature tests				
		30	Test for touch currents to the earth				
		31	Ball pressure test				
		32	Test for touch currents to telecommunication				
		33	Abnormal operating and fault conditions				
		34	Humidity conditioning				



**CHINA NATIONAL ACCREDITATION SERVICE FOR CONFORMITY ASSESSMENT
APPENDIX OF LABORATORY ACCREDITATION CERTIFICATE**

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APPENDIX2 LIST OF ACCREDITED SIGNATORY AND SCOPE

№	Name	Authorized field of signature	Note
1	Wang Nan	Performance, EMC, lightning protection, safety and electromagnetic radiation test of telecommunication equipment.	
2	Lu Minniu	Performance, EMC, lightning protection, safety and electromagnetic radiation test of telecommunication equipment.	
3	Lu Bingsong	Performance, EMC, lightning protection, safety and electromagnetic radiation test of telecommunication equipment.	
4	Xiao Li	Performance, EMC, lightning protection, safety and electromagnetic radiation test of telecommunication equipment.	
5	Zhang Rui	Performance, EMC, lightning protection, safety and electromagnetic radiation test of telecommunication equipment.	