

Test Conditions for Test Certification

As of Nov. 2006

No	Classification of Radio Equipment	Test frequency *1	Test for equipment or function other than transmitter and receiver *2	Overall operation test and characteristics test *3
1	MCA	L, C, H	Controller	Radio Equipment Regulations (Item 1- b-(4) of Article 49-7)
2	Airport MCA	L, C, H		Switching to assigned speech channel
3	SSB (Item 1-9 of Article 2)	L, C, H or Applied freq.		
4	Digital radio	L, C, H or Applied freq.		
5	F3E radio, etc. (Item 1-11 of Article 2)	L, C, H or Applied freq.	Selective calling device	
6	Specified radio microphone	L, C, H or Applied freq.		
7	Maritime DSB	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Automatic identification device • Selective calling device • Modulation signal processing device 	
8	SSB (Item 1-14 of Article 2)	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Automatic identification device • Selective calling device • Modulation signal processing device 	

9	F3E radio, etc. (Item 1-15 of Article 2)	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Automatic identification device • Selective calling device 	
10	Radiolocation equipment	10.525GHz, 24.2GHz		
11	Radio buoy	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Automatic identification device • Selective calling device 	
12	Citizen radio	Applied freq.		
13	Meteorological Aids	Radiosonde	L, C, H or	
	Station	Robot	Applied freq.	
14	Personal radio	L, C, H	Memory device of call name	Overall test by using overall test equipment
15	Convenience radio	L, C, H or Applied freq.	Automatic identification device	
16	Short range convenience radio	L, C, H or Applied freq.	Automatic identification device	
17	Convenience radio for radio-control	L, C, H or Applied freq.		
18	50GHz band convenience radio	Applied freq.		
19	Premises radio	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Transmitter identification device • Transmission time restriction device • Carrier sensing function 	

20	Cordless telephone	L, C, H	<ul style="list-style-type: none"> • Interference prevention function • Automatic cessation function • Carrier sensing function 	
21	Specified low-power radio equipment	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Transmission time restriction device • Carrier sensing function 	
22	VSAT	L, C, H or Applied freq.		<ul style="list-style-type: none"> • Degree of cross polarized wave identification • Off-beam radiation • Automatic transmission cessation • Interlock
23	Ka-band VSAT	L, C, H or Applied freq.		<ul style="list-style-type: none"> • Degree of cross polarized wave identification • Off-beam radiation • Automatic transmission cessation • Interlock
24	Land mobile station for TDMA cellular radio telephone	L, C, H		<ul style="list-style-type: none"> • Automatic transmitter identification • Automatic freq. selection • Antenna power control
25	Base station, etc. for TDMA cellular radio telephone	L, C, H		
26	Land mobile station for CDMA cellular radio telephone	L, C, H		<ul style="list-style-type: none"> • Channel switch during call • Reading unique number of mobile station • Power reduction

27	Base station, etc. for CDMA cellular radio telephone	L, C, H		
28	Land mobile station for DS-CDMA cellular radio telephone	L, C, H		<ul style="list-style-type: none"> • Test call (Calling and response, including registration and hand over) • Reading unique number of mobile station • Location registration • Power reduction
29	Land mobile station for MC-CDMA cellular radio telephone	L, C, H		
30	Base station, etc. for DS-CDMA cellular radio telephone	L, C, H		
31	Base station, etc. for MC-CDMA cellular radio telephone	L, C, H		
32	Land mobile station for T-HCDMA cellular radio telephone	L, C, H		
33	Land mobile station for T-CDMA cellular radio telephone	L, C, H		
34	Base station, etc. for T-HCDMA cellular radio telephone	L, C, H		
35	Base station, etc. for T-CDMA cellular radio telephone	L, C, H		
36	Land mobile station for TD-CDMA cellular radio telephone	L, C, H		

37	Land mobile station for TD-SCDMA cellular radio telephone	L, C, H		
38	Base station, etc. for TD-CDMA cellular radio telephone	L, C, H		
39	Base station, etc. for TD-SCDMA cellular radio telephone	L, C, H		
40	Amateur radio station	L, C, H (*5)		
41	Low-power security radio	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Transmission time restriction device • Interference prevention function (Automatic transmission and reception of ID code) 	
42	Earth station for portable mobile satellite data communication (geostationary)	L, C, H or Applied freq.		<ul style="list-style-type: none"> • Radiation of cross polarized wave • Off-beam radiation • Automatic transmission cessation • Interlock • Automatic tracking
43	Earth station for portable mobile satellite data communication (non-geostationary)	L, C, H		Test call (Calling and response)
44	Base station for multidirectional fixed wireless access	L, C, H or Applied freq.		
45	Mobile station for multidirectional fixed wireless access	L, C, H or Applied freq.		

46	Mobile station for point-to-point fixed wireless access	L, C, H or Applied freq.		Off-beam radiation
47	Fixed station for telemeter, etc.	L, C, H or Applied freq.		
48	Fixed station for emergency alarm	Applied freq.		
49	22GHz band fixed station	L, C, H or Applied freq.		
50	2.4GHz band wide band low-power data communication system	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Interference prevention function (ID code) • Holding time of hopping • Absolute gain of transmission antenna • Angle width of principal radiation from transmission antenna 	
51	2.4GHz band low-power data communication system	L, C, H or Applied freq.	Interference prevention function (ID code, Carrier sensing, Correlation signal sensing)	
52	5GHz band low-power data communication system	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Interference prevention function • Transmission burst length • Transmission power control (TPC) device • Carrier sensing function (1) • Carrier sensing function (2) (DFS) 	

53	Quasi-millimeter band low-power data communication system	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Interference prevention function (ID code) • Transmission burst length • Carrier sensing 	
54	Base station for 5GHz band wireless access system (1)	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Absolute gain of transmission antenna • Angle width of principal radiation from transmission antenna • Transmission burst length • Carrier sensing function 	
55	Base Station for 5GHz Band Wireless access system (2)	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Absolute gain of transmission antenna • Angle width of principal radiation from transmission antenna • Transmission burst length • Carrier sensing function 	
56	Land mobile relay station for 5 GHz band wireless access system (1)	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Absolute gain of transmission antenna • Angle width of principal radiation from transmission antenna • Transmission burst length • Carrier sensing function 	

57	Land mobile relay station for 5 GHz band wireless access system (2)	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Absolute gain of transmission antenna • Angle width of principal radiation from transmission antenna • Transmission burst length • Carrier sensing function 	
58	Land mobile station for 5GHz band wireless access system (1)	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Absolute gain of transmission antenna • Angle width of principal radiation from transmission antenna • Transmission burst length • Carrier sensing function 	
59	Land mobile station for 5GHz band wireless access system (2)	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Absolute gain of transmission antenna • Angle width of principal radiation from transmission antenna • Transmission burst length • Carrier sensing function 	
60	Land mobile station for 5GHz band wireless access system (3)	L, C, H or Applied freq.	<ul style="list-style-type: none"> • Absolute gain of transmission antenna • Angle width of principal radiation from transmission antenna • Transmission burst length • Carrier sensing function • Interference prevention function 	

61	1500MHz band Digital MCA	L, C, H	<ul style="list-style-type: none"> • Automatic power control • Other control functions (Frequency selection, Time control, Automatic transmission cessation and Memory device) 	Radio Equipment Regulations (Item 1-h of Article 49-7-2)
62	800MHz band Digital MCA	L, C, H	<ul style="list-style-type: none"> • Automatic power control • Other control functions (Frequency selection, Time control, Automatic transmission cessation and Memory device) 	Radio Equipment Regulations (Item 1-h of Article 49-7-3)
63	Digital cordless telephone	L, C, H	<ul style="list-style-type: none"> • Carrier sensing • Interference prevention function (System calling sign) • Communication between slave units • Transmission cessation 	
64	PHS land mobile station	L, C, H	<ul style="list-style-type: none"> • Carrier sensing • Interference prevention function (System calling sign) • Communication between slave units • Transmission cessation 	Switching to assigned speech channel
65	PHS base station	L, C, H	<ul style="list-style-type: none"> • Carrier sensing • Identification device 	

66	PHS relay station	L, C, H	<ul style="list-style-type: none"> • Carrier sensing • Identification device 	
67	PHS test station	L, C, H	<ul style="list-style-type: none"> • Carrier sensing • Identification device 	
68	38GHz band fixed station	L, C, H or Applied freq.		
69	RZ SSB	L, C, H		
70	RZSSB with automatic frequency selection function	L, C, H		Automatic Frequency Selection
71	RZSSB with frequency tracking function	L, C, H		Frequency Tracking
72	Narrow-band digital communication radio	L, C, H		
73	Narrow-band digital communication radio with automatic frequency selection function	L, C, H		Automatic Frequency Selection
74	Narrow-band digital communication radio with frequency tracking function	L, C, H		Frequency Tracking
75	Radiolocation land station for vehicle detection	Applied freq.		
76	Road traffic information beacon	Applied freq.		
77	Earth station for portable mobile satellite communication (geostationary)	L, C, H		<ul style="list-style-type: none"> • Test call (Calling and response) • Location registration

78	Earth station for portable mobile satellite communication (non-geostationary)	L, C, H		Test call (Calling and response)
79	Class III Rader	Applied freq.		
80	Class IV Rader	Applied freq.		
81	INMARSAT portable mobile earth station	L, C, H		
82	ESV portable mobile earth station	L, C, H		
83	Rural subscriber radio	L, C, H		
84	Base station for 60GHz band high speed radio link	L, C, H or Applied freq.		
85	Multidirectional land mobile station for 60GHz band high speed radio link	L, C, H or Applied freq.		
86	Point-to-point land mobile station for 60GHz band high speed radio link	L, C, H or Applied freq.		
87	Mobile station for dedicated short range communications system	Applied freq.	Interference prevention function (Automatic transmission and reception of ID code)	
88	Base station for dedicated short range communications system	Applied freq.		
89	Station for testing radio equipment for dedicated short range communication system	Applied freq.	Interference prevention function (Automatic transmission and reception of ID code)	
90	1.9GHz band fixed terminal station	L, C, H	Carrier sensing	Test call (Calling and response)

91	1.9GHz band fixed base station	L, C, H	Carrier sensing	
92	1.9GHz band fixed relay station	L, C, H	Carrier sensing	
93	1.9GHz band radio station for test	L, C, H	Carrier sensing	
94	Fixed station for municipality disaster prevention digital radio	Applied freq.		
95	Airport digital MCA (1)	L, C, H	Control device	
96	Airport digital MCA (2)	L, C, H	Control device	
97	18 GHz band base station, land mobile station, etc	L, C, H	<ul style="list-style-type: none"> • Automatic control device of antenna power • Antenna gain to elongation from principal radiation direction of transmission antenna 	
98	18 GHz band land mobile station	L, C, H	<ul style="list-style-type: none"> • Automatic control device of antenna power • Antenna gain to elongation from principal radiation direction of transmission antenna 	
99	18 GHz base station, etc	L, C, H	<ul style="list-style-type: none"> • Automatic control device of antenna power • Antenna gain to elongation from principal radiation direction of transmission antenna 	

100	18 GHz band fixed station for telecommunications service	L, C, H	<ul style="list-style-type: none"> • Automatic control device of antenna power • Antenna gain to elongation from principal radiation direction of transmission antenna 	
101	18 GHz band fixed station for public service	L, C, H	<ul style="list-style-type: none"> • Automatic control device of antenna power • Antenna gain to elongation from principal radiation direction of transmission antenna 	
102	Aeronautical mobile satellite communications system	L, C, H		<ul style="list-style-type: none"> • Cross-polarization discrimination • Off-beam radiation power • Monitoring and controlling functions, etc
103	Ultra Wideband Wireless System	Applied freq.		<ul style="list-style-type: none"> • Spreading bandwidth • Absolute gain of transmission antenna • Interference reduction function

Notes:

- *1 The “L, C, H” means lowest, center and highest frequencies of applied frequency band.
- *2 If applied equipment includes a unit other than transmitter or receiver, the unit is subject to be tested.
- *3 Overall operation test is required if applied equipment comes under the item (3)-c of Attached Table No.3 of “Technical Regulations Conformity Certification of Specified Radio Equipment”.

*4 Power supply voltage (Note relating to the whole)

The test is conducted with rated power supply voltage.

*5 Test frequencies for amateur radio equipment are as follows;

1.9MHz – 24MHz band: Center frequency of each band

28MHz, 144MHz band: Lowest and highest frequencies of each band

50MHz, 430 – 2400MHz band: Lowest, center and highest frequencies of each band

Test frequencies for equipment having bandwidth of over 50MHz are separately regulated, but not described here.