厂商名称： Anritsu

商品名称： 数字移动无线发射机测试仪/频谱仪

商品型号： MS8604A

特点

•频率范围：100Hz~8.5GHz

分辨范围：100HZ

RBW:10HZ

VBW:10HZ

•由单一系统评估主发射机功能

•与 NADC,PDC,PHS,数字 MCA, GSM, DCS1800(PCN), CT2, DECT,WCPE,PACS,RCR STD-39 TETRA 系统及 GMSK 和 π/4 DQPSK 通用测量软件相兼容;

•高速测量(调制精度测量小于 1s)

•输入共 10W(内部有用于高功率测量的 20dB 衰减器及功率计

技术指标：

General	Frequency range	100Hz to 8.5GHz
	Maz.input level (continuous wave average power)	+40dBm(10W)
	Reference oscillator	Frequency:10MHz Starting characteristics:≤5×0.00000001/day(option:≤2×0.00000001/day after30 min.warm-up)

			*After 10min.of warm-up,compared to the frequency after 24-hour warm-up Aging rate:≤2×0.00000001/day(option:≤5×0.000000001/year) *Compared to the frequency after 24-hour warm-up Temperature characteristics:5×0.00000001/day(option:3×0.00000001/day) *0to 50℃,relative to the frequency at 25℃
Spectrum anallyzer		Frequency	Setting range:100Hz to 8.5GHz(resolution:1Hz),0to 2GHz(freq.band:0),1.7to7.5GHz(freq.band:1-),6.5to 8.5GHz(freq.band:1+) Preselector range:1.7to 8.5GHz (bands:1-/1+) Display accuracy:±(display freq.×reference freq.accuracy+span×span accuracy) Span Setting range:0Hz,100Hz to 8.5GHz Accuracy: ±2.5%(span≥1kHz),±5%(100Hz≤span<1kHz) RBW Setting range:10Hz to 3MHz(3dB),1-3serqence Accuracy:±20% Selectivity(60/3dB);≤15:1(100kHz to 3MHz),≤12:1(10Hz to 30kHz) VBW:1Hz to 3MHz,off,1-3 seqrence Signal purity(SSB,1MHz to 4GHz): ≤-100dBc/Hz(10kHz offset,≤-115dBc/Hz(50kHz offset),≤-120dBc/Hz(100kHzoffset)
Spec-trum analyzer	Ampl-itude	Level	Level measuring range:Average:Average noiselevl to +40dBm Average noise level:≤-112dBm(10MHz to 8.5Ghz,RBW 10Hz,VBW 1Hz,input att.setting20dB) Residual reponse:≤-75dBm(1MHz to 8.5GHz,input att.setting 20dB)
		Reference level	Setting range:-80to +40dBm Accuracy:±0.5dB(-30to +20dBm),±0.75dB(-40to -30dBm,+20to +40dBm),±1.5dB(-60to-40dBm) *After calibration and at freq.100Mhz,span≤2MHz,and in auto mode for inputatt ,RBW,VBW and sweep time settings RBW switching error(after calibration):±0.3dB(RBW:≤300kHz),
		Frequency reponse	±0.5dB(100MHz to 2GHz,band:0),±1dB(1.7to8.5GHz,bands:1-/1+)
		Linearity(after calibration)	LOG:±0.3dB(0to -20dB,RBW:≤100kHz),±1.5dB(0to-80dB,RBW≤10kHz) LIN:±5%(to reference level)

		Dynamic range	2nd harmonics: ≤-70dBc(5to 800MHz,band:0,mixer input level:-30dBm) ≤-80dBc(800to 850MHz,band:0,mixer input level:-30dBm), ≤-90dBc(850MHz to 2.1GHz,bands:1-,mixer input level:-10dBm) Two-signal third-ouder intermodulation distortion:≤-70dBc(10to 50MHz),≤-85dBc(50MHzto 2.1GHz) *Frequency difference between two signals≥50kHz,mixer input level:-30dBm
		Sweep	Sweep time Setting range:20ms to 1000s(TRACE-FREQ,data points:NORMAL),50ms to 1000s at other conditions Accuracy:±10%(20ms to 200s),±15%(200 to 1000s) Sweep mode:CONTINUOUS,SINGLE Trigger:FREE RUN,TRIGGERED Trigger source:VIDEO,LINE,EXT(±10V),EXT(TTL) Gate mode(OFF,random sweep mode) GATE DELAY:0to 65.5ms(in 1μs steps,GATE END:INT) GATE END:INT/EXT
		Time domain waveform display	Sweep fime:50,100to 900μs(data point:NORMAL,Onemost significant digit can be set.) 1ms to 1000s(data point:NORMAL,Two most significant digits can be set) 100,200to800μs(data point:DOUBLE,One most significant digit can be set aseven number.) 1ms to 1000s(data point:DOUBLE,Two most significant digits can be set aseven number.) Delay time Pre-trigger.-time span to 0s(in 1point steps) Post trgger:0to 65.5ms(in 1μssteps) Amplitude display resolution:50μsto 49ms,10bits*0.1%of full scale) 50ms to 1000s,14bits(0.01%of full scale)
		Detection mode	POS PEAK,SAMPLE,NEG PEAK
		Number of points	NOUMAL:501 points,DOUBLE:1002points
		AM/FM demodu-lation	Demodulated waveform display and monitoringdemodulated audio signal with internal speaker
		Auxiliary	IF output21.4MHz:-10dBm±2dB(at top of

		inputs/ outputs	screen,with output terminated by 50Ωteminator),BNC connector Youtput:0to 0.5V±0.1V(at range between top and bottom of screen,LOG:10dB/div,LIN:10%/div,100MHz and with output terminated by 75Ω terminator),BNC connector External trgger input Input1:max.±10V(in 0.1V steps, rising/falling edges selectable and pulse width≥10μs),BNC connector Input2:TTL level(rising/falling edges selectable and pulse width≥10μs,)BNC connector
Power meter	Frequency range		100kHz to 5.5GHz
	Level range		-20to +20dBm
	Instrumentation accuracy		±0.5%
	Zero set		±0.5% of full scale at most sensitive range(100μW range)
	Zero shift between ranges		±0.2% of full scale zero setting at mostsensitive range
	Calibration oscillator		Freq:50MHz,Output:1.00mW,Accuracy:±1.2%
	Applicable power sensor		MA4601A
Others	Display		640×400dot,9-inch EL
	Inputs/outputs on rear panel		Reference input:10MHz±10Hz,2to 5Vp-p, ≥50Ω,BNC connector Reference buffer output:10MHz,2to 3Vp-p(with the output terminated by 200Ω terminator),BNC connector Separate video output:Compatible with 8-pin DIN connector
	External memory		One slot for can be connected
	Save/recall		Internal memory(4sets of spectrum and Tx test conditions),can save/recall setting conditions at extemal memory(PMC)
	Direct plotting		Can hard-copy screen via GPIB2
	External	GPIB1	As device controlled by host all

	control	(IEEE488.2)	functions except power swetch Controls other instruments as controller using PTA SH1,AH1,T6,L4,SR1,RL1,PP0,DC1,DT1, C0(C1,C2,C3,and C24with PTA)
		GPIB2 (IEEE488.1)	Controls other instruments as controller SH1,AH1,T6,L4,SR1,RL1,PP0,DC1,DT1 ,C1,C2,C3,C4,C28
		I/O port	Output port A/B:8-bit(TTL level), Input/Output port C/C:4-bit(TTL level), EXclusive port:3-bit(TTL level) Control signal:4(TTL level),+5V output:Max.50mA
		RS-232C (Option 02)	Controls other instruments as controller
	PTA	Language	PTL:High level languaeg interpreter based on BASIC
		Programming	Using external keyboard
		Program memory	On PMC or FD Upload/download from/to PC
		Programming capacity	900KB
Operating temperature			0°to 50℃
Power			85to 132/170 to 250Vac,47.5 to 63Hz ,≤500VA
Dimensions and mass			426(W)×221.5(H)×451(D)mm,≤27kg
EMC*1			EN55011:1991,Group1,ClassA EN50082-1:1992
Safety			EN61010-1:1993(Installation CategoryII ,Pollution DegreeII)

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