Technology Support on the Leading Edge

ADVANTEST

ADVANTEST CORPORATION

Spectrum Analyzer R3267/3273
PDC/PHS/IS-136 Analysis Software Option (OPT.64)

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For PDC/PHS/IS-136 Transmission Test

Spectrum Analyzer R3267/3273

■Overview

The PDC/PHS/IS-136 analysis software option (OPT.64) makes R3267/3273 possible to measure the PDC/PHS/IS-136 transmission test items.

This option contributes to both base station/mobile station with a single unit. In addition, modulation accuracy and graphics analysis measurement are possible (Operation of OPT.64 require Digital Modulation Analysis Option (OPT.01).)

■Target systems

PDC/PHS/IS-136 - BS/MS (CS/PS)

■Features

- Dual mode analysis
  - Spectrum analyzer mode

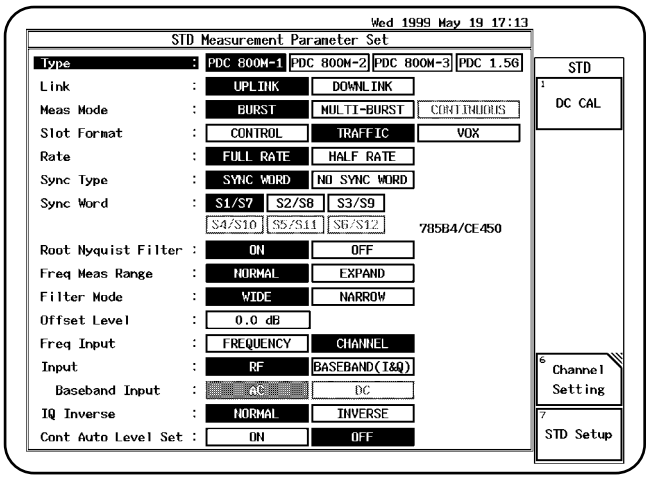
    (R3267 100Hz to 8GHz
    R3273 100Hz to 26.5GHz)
  - PDC/PHS/IS-136 Tx tester mode
- Measurement of items specified modulation accuracy measurement (EVM, etc.)
- Automatic setting of PDC/PHS/IS-136 parameters
- Simple operation with conversational key menu
- Standard limit test function is provided

■Measurement items

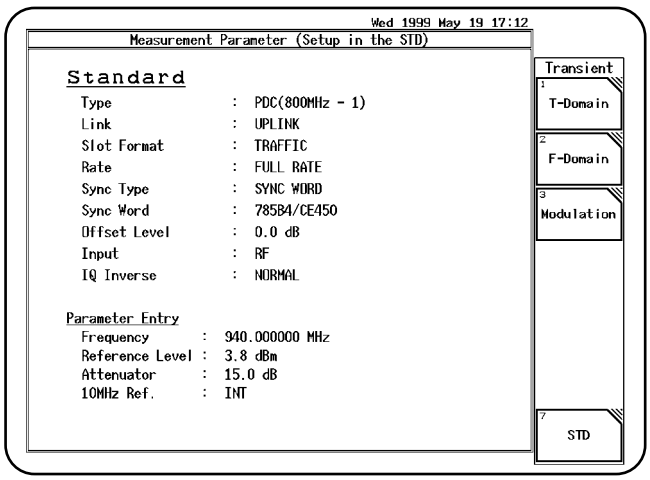
- **Power**
- **On/Off Ratio (Carrier off Power)**
- **ACP**
- **OBW**
- **Spurious**
- **Modulation Accuracy (EVM, etc.)**
- **Carrier Frequency Error**
- **I/Q Origin Offset**
- **Bit Rate Error**
- **Power vs Time**
- **Graphics analysis**
- **Tx Power(DSP)**

Display Example

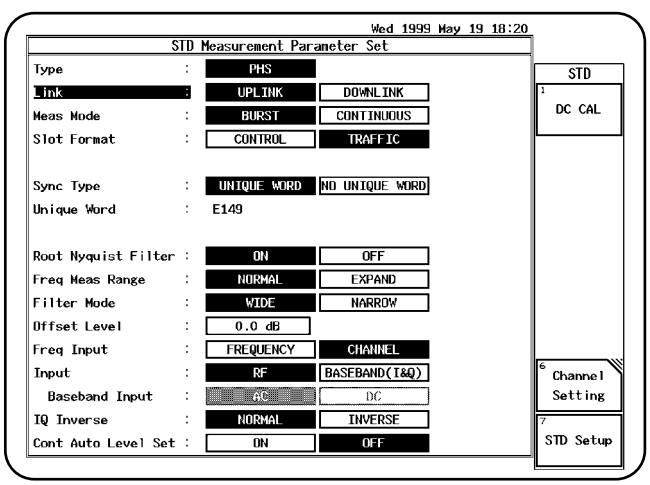
■STD parameter setup menu (PDC)



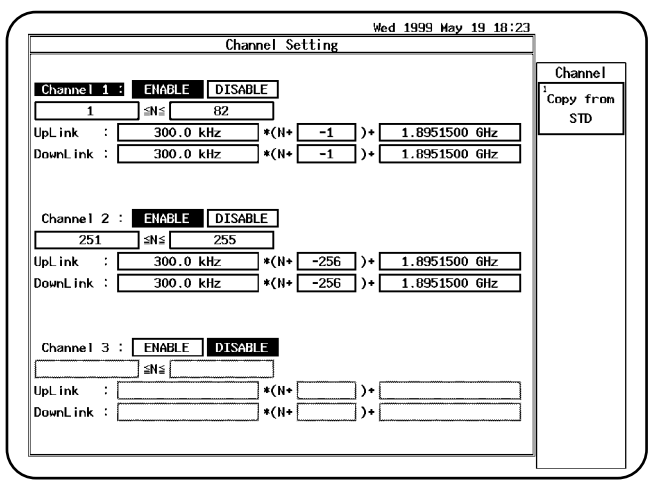
■TRANSIENT (Tx tester mode) menu



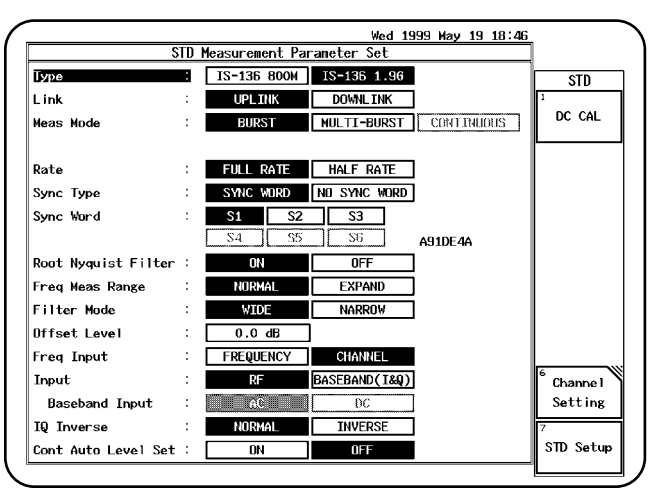
■STD parameter setup menu (PHS)



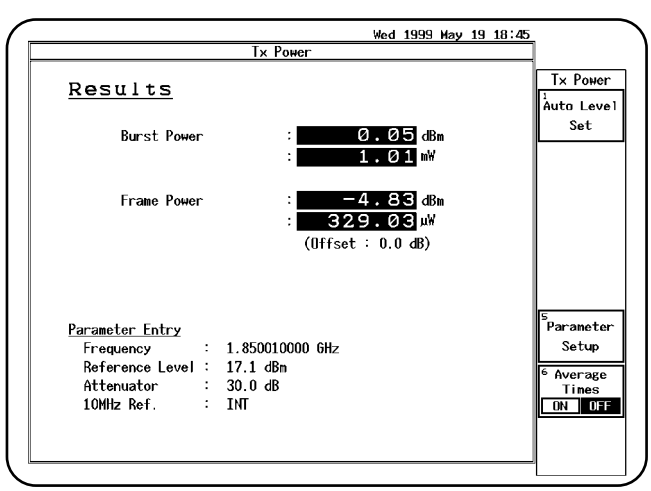
■Channel setup menu (PHS)



■STD parameter setup menu (IS-136)

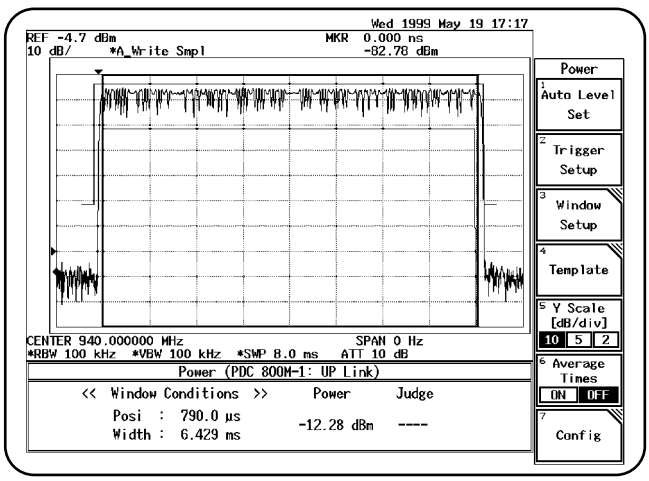


■Tx Power measurement

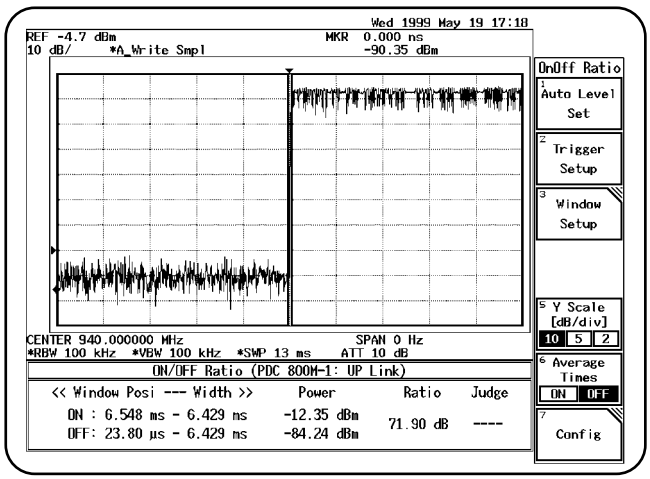


PDC/PHS/IS-136 Analysis Software Option (OPT.64)

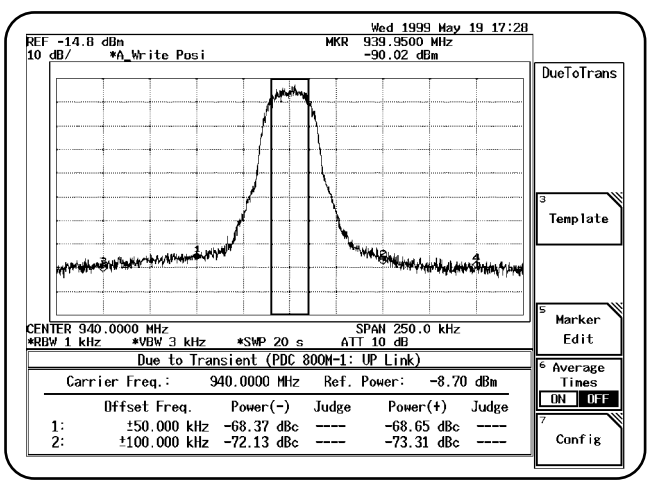
■T-Domain power measurement



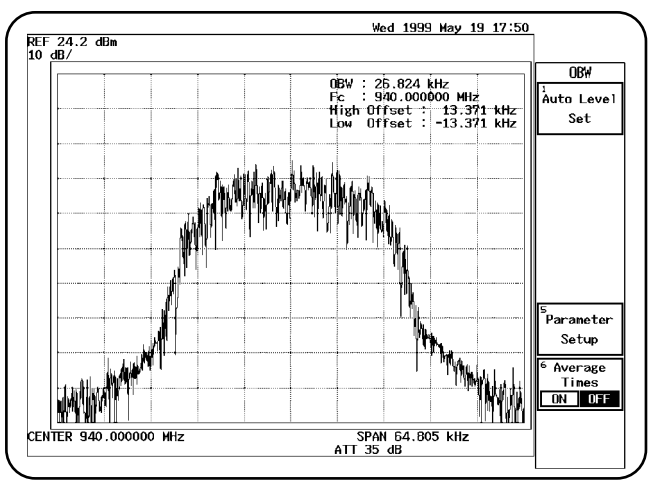
■On/Off ratio measurement



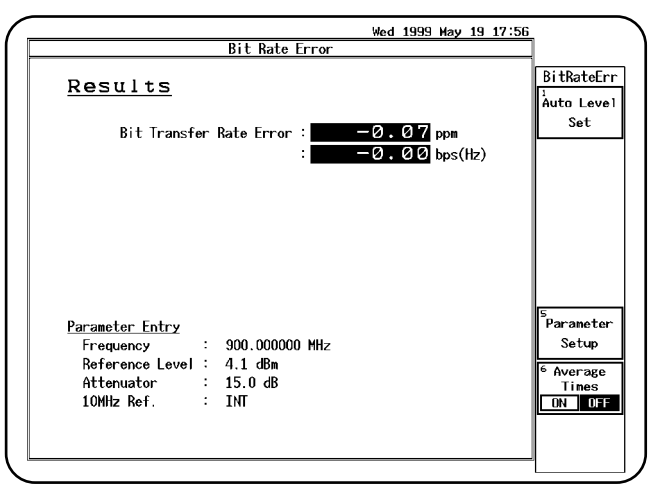
■Due to Trans. (ACP) measurement



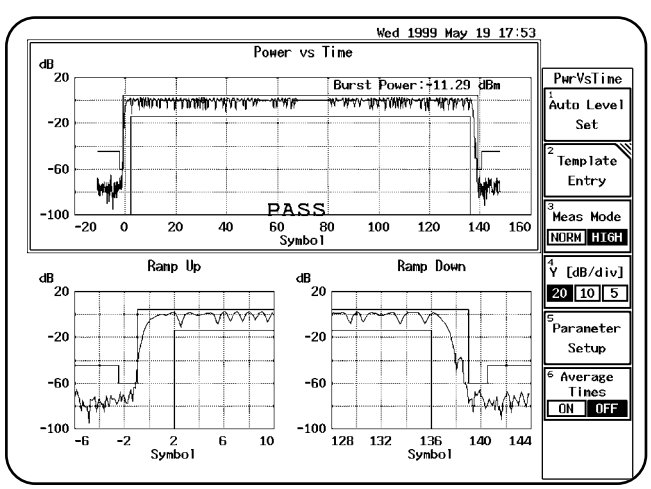
■OBW (Modulation mode)



■Bit Rate Error measurement



■Power vs Time measurement



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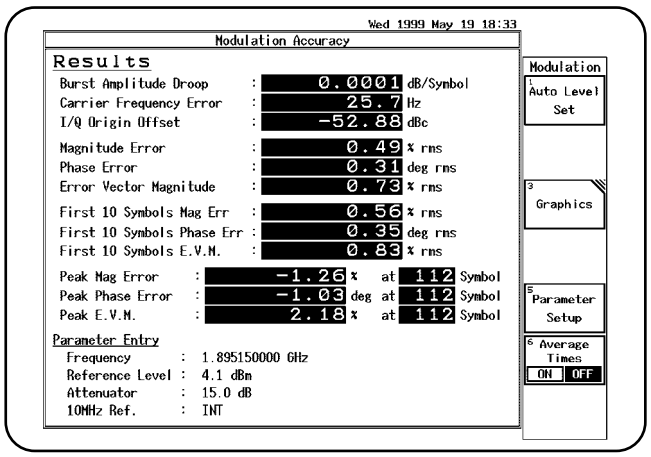
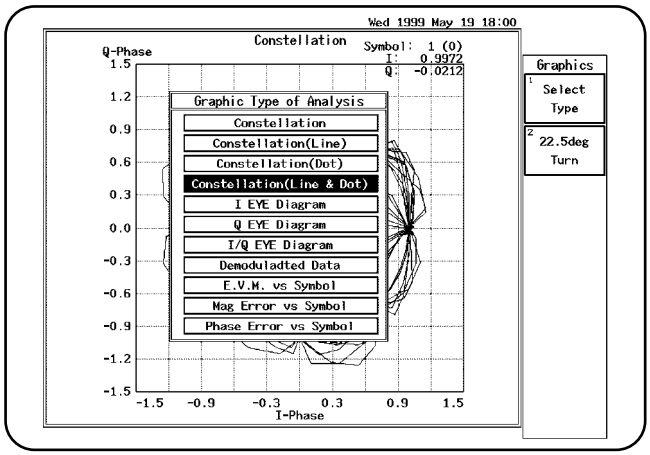
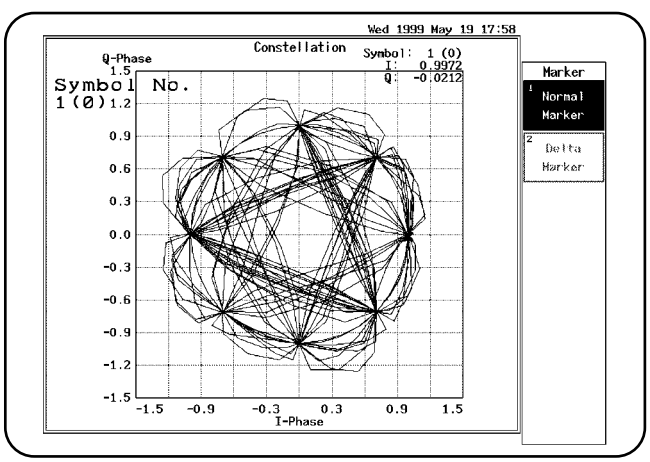
■Modulation accuracy measurement



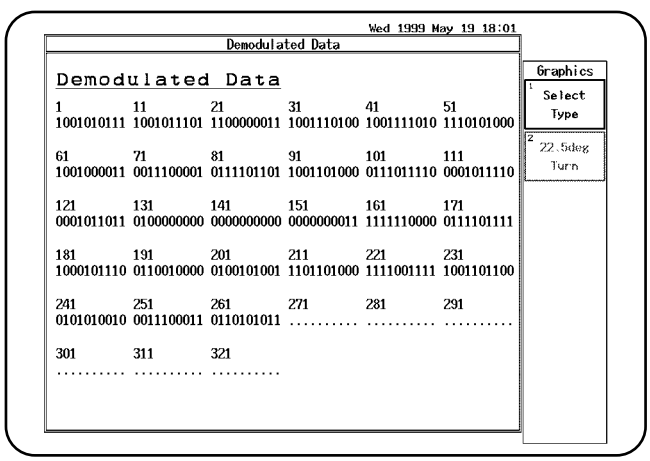
■Graphics analysis (Select type)



■Constellation display



■Demodulated data display



■Specifications (RF Input)

Items	Specifications	Items	Specifications
PDC/IS-136 Measurement		PHS Measurement	
Frequency range	30 MHz to 3.0 GHz	Frequency range	30 MHz to 3.0 GHz
Input level	-30dBm to +30 dBm	Input level	-30 dBm to +30 dBm
Frequency error	Accuracy : ±(Frequency reference accuracy × Carrier frequency + 5 Hz) Range : < ± 1.4 kHz (normal) : < ± 5 kHz (expand)	Frequency error	Accuracy : ±(Frequency refereuce accuracy × Carrier frequency + 20 Hz) Range : < ± 13 kHz (normal) < ± 50 kHz (expand)
Modulation Accuracy	Accuracy : < ± (1% + measurement value × 3%)	Modulation accuracy	Accuracy : < ± (1% + measurement value × 2%)
Bit rate error	< 1ppm		

* No accessory

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ADVANTEST®

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