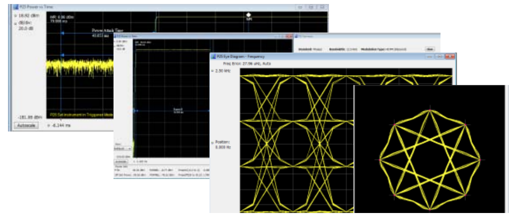
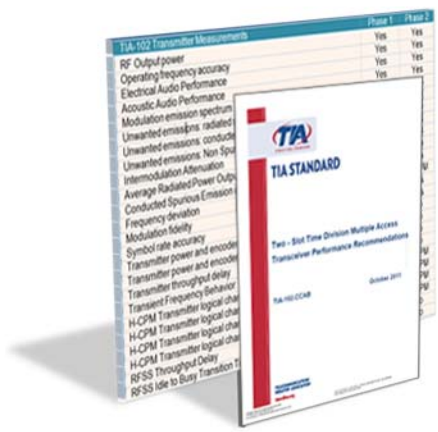
Project 25 Land Mobile Radio (LMR) Solution

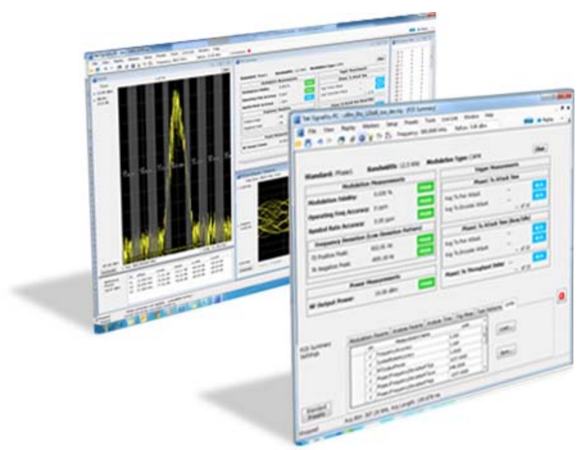


Transmitter Compliance and Analysis for Phases 1 and 2



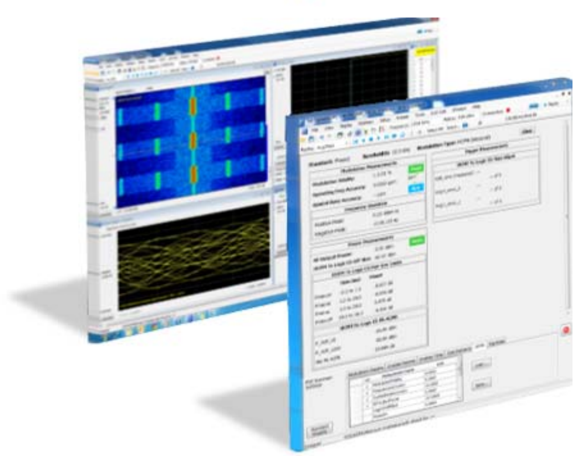
Simple and Complete Transmitter Compliance Testing per TIA-102

- 28 Push-button measurements
- Automated Pass/Fail reporting
- Customizable Limits
- Multiple Spectrum Analyzer families supported



Phase 1 Transmitter Compliance Testing

- TIA-102 C4FM transmitter measurement set
- Includes Encoder Attack, Transient Frequency Behavior, Transmitter Throughput Delay
- Push-button and Pass/Fail results



Phase 2 Transmitter Compliance Testing

- TIA-102 Two-slot TDMA transmitter measurements (H-CPM & H-DQPSK)
- Includes: H-CPM Tx Logical Channel Off Slot Power, Power Envelope, Peak ACPR and Time Alignment
- Push-button and Pass/Fail results

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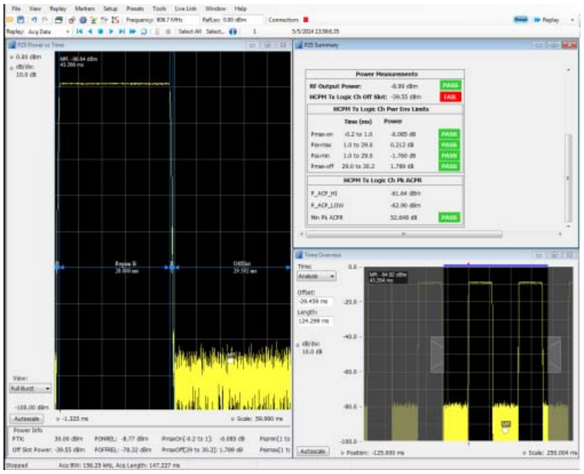
Project 25 Land Mobile Radio (LMR) Portfolio

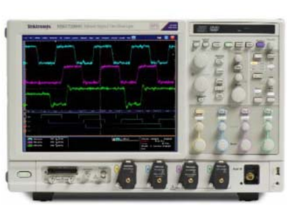


Same User Interface and Major Features Across Multiple Software and Firmware Platforms

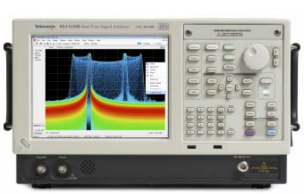
- Spectrum Analysis & RF Measurements
- Vector Signal Analysis
- APCO P25 Transmitter Compliance Phases 1 & 2

Model	Maximum Frequency Range	Maximum Analysis Bandwidth	ACPR for P25 (Narrow Band)	Residual Modulation Fidelity Phase 2 (HCPM)
RSA5000	26.5 GHz	165 MHz	Typical ≤ -74 dBc	Typical ≤ 0.5%
MDO4000B + SignalVu-PC	6 GHz	1 GHz	Typical ≤ -74 dBc	Typical ≤ 0.5%

- **SignalVu-PC running with MDO4000B Mixed Domain Oscilloscope**
  - PC Controls the MDO4000B RF section
  - Widest Vector Signal Analysis - 1 GHz Analysis Bandwidth
  - World's only Multi Domain Analyzer



- **SignalVu running on a Higher Performance Mixed Signal Oscilloscope**
  - Option to Scope, runs directly on Scope
  - Widest Bandwidth Analysis Bandwidth – up to 33 GHz
- **SignalVu-PC Analyzes Saved Waveform Captured from any Tektronix Oscilloscope or RSA**
  - Analyze IQ Files Captured from an RSA or Scope running SignalVu
  - Analyze ISF and WFM files from Scopes not running SignalVu



- **RSA5000B Real Time Spectrum Analyzer with same VSA, adds Real Time Spectrum Analysis**
  - DXP, Swept DPX, DPX Spectrogram, Density Triggers

For complete information, go to www.tektronix.com

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