FREEDOM
Communication Technologies

Proudly Announce the latest TETRA TMO Test System
Available Spring 2018

TETRA TMO Upgrade Available as an optional upgrade on all R8000 and R8100 Communication Analysers





R8000C: TETRA DMO & TMO Parametric Test Functionality

TETRA Parametric Performance Tests

Transmitter Measurements

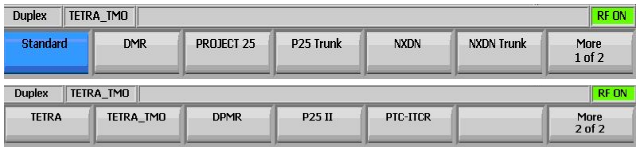
- RF power
- Carrier frequency offset
- Burst power profile over time
- Timing error
- Peak & RMS Vector Error
- Residual carrier power
- Unwanted output power
- Modulation spectrum
- Constellation diagram

Receiver Measurements

- Single ended and loopback Bit Error Rate (BER) and Message Erasure Rate (MER)
- Test signals: T1 with TCH7.2, TCH2.4, SCH/F, with and without Frame 18
- Paging sensitivity

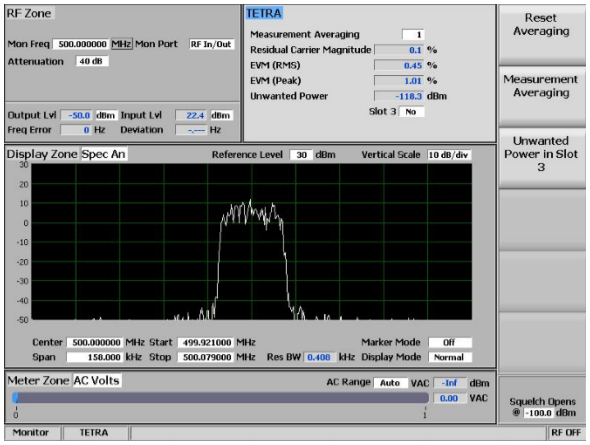
Digital Radio Test Options

- DMR & DMR trunking
- P25 Phase I & II, P25 Trunking
- NXDN. NXDN Trunking
- dPMR
- TETRA DMO
- TETRA TMO Available Spring 2018
- Positive Train Control PTC

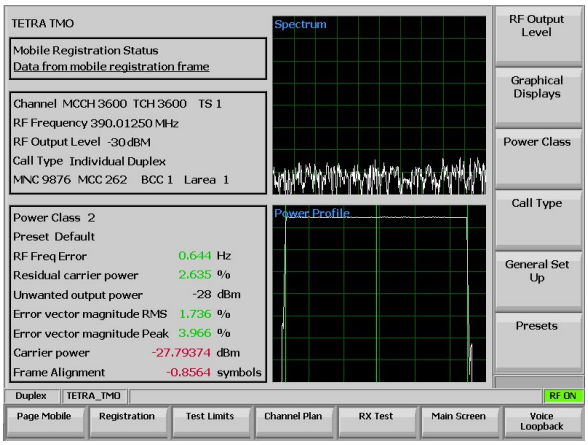


R8000C/R8100: TETRA DMO Parametric Test Functionality

R8000C DMO Display & Measurements

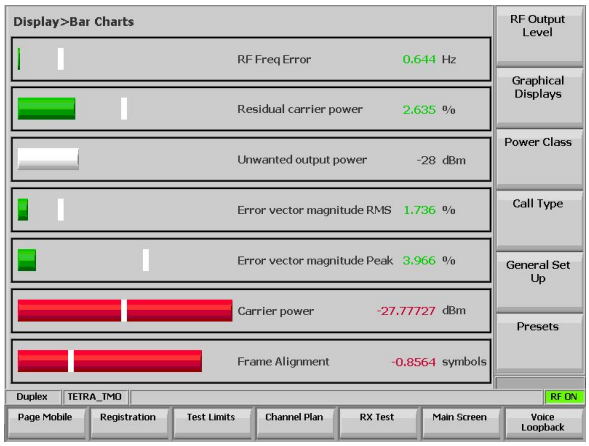


R8000C: TETRA TMO Digital Test Functionality Main Display

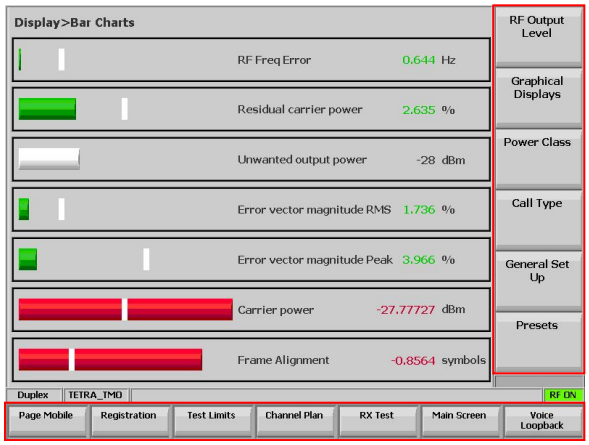


Colour Coded Test Results

- All test results are colour coded for instant pass/fail analysis
- Test limits are ETSI standard by default
- User may generate and save user defined test limits



Intuitive Operating Interface Menu Keys

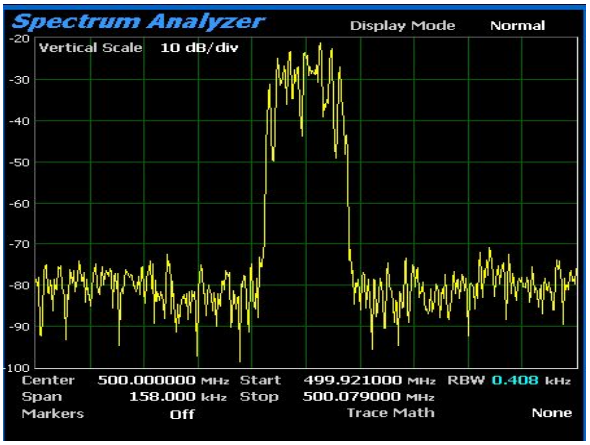


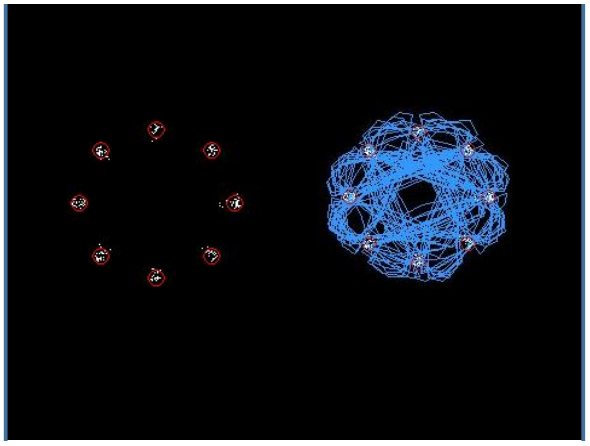
Graphical Displays

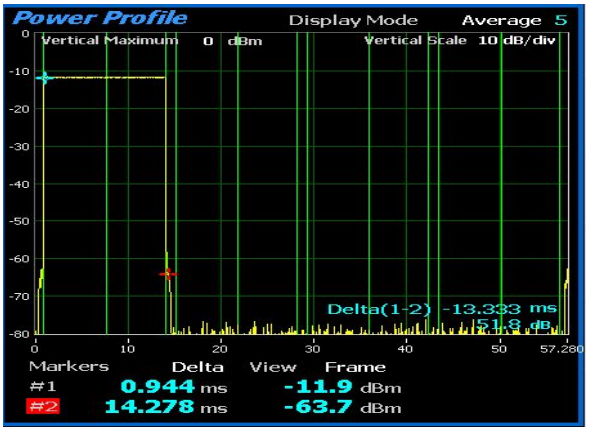
Instant Spectrum and Slot Power Profile are displayed on the main screen

Full screen, full function displays for:

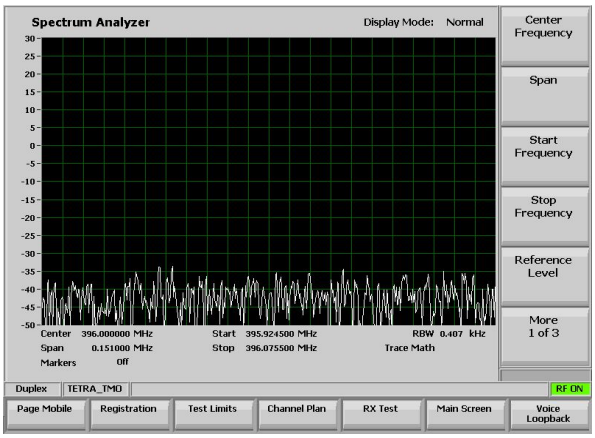
- Spectrum Analyser
- Constellation Diagram Display
- Power Profile



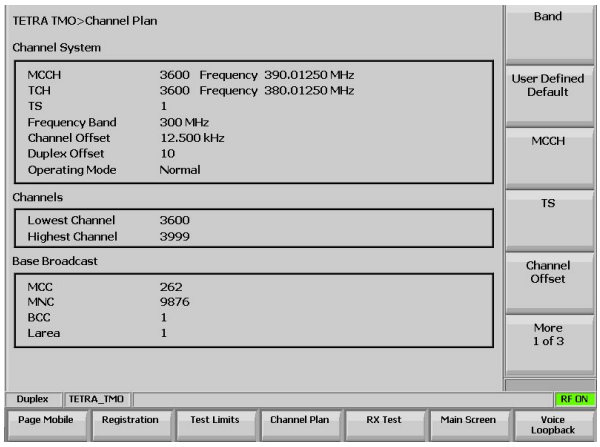




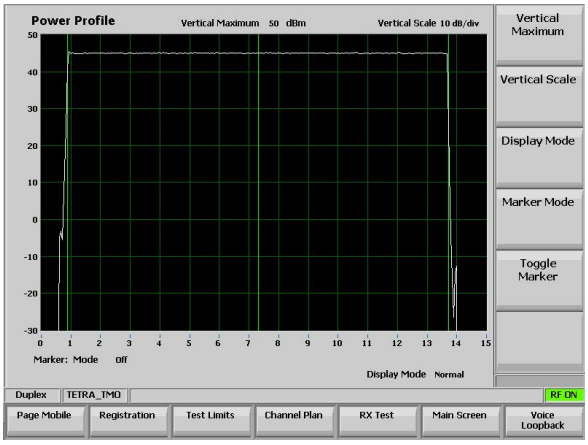
R8000C: TETRA DMO & TMO Digital Test Functionality Spectrum



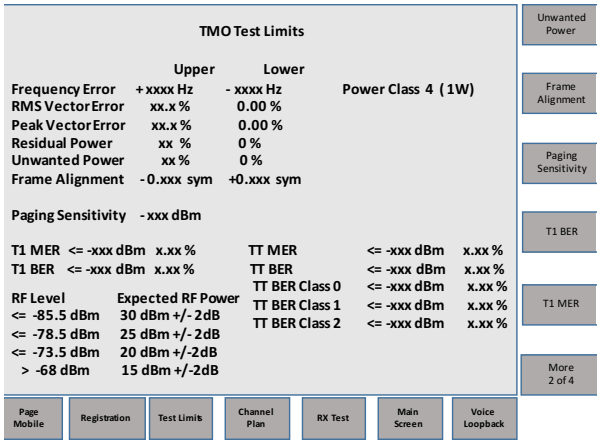
R8000C: TETRA TMO Digital Test Functionality Channel Parameters



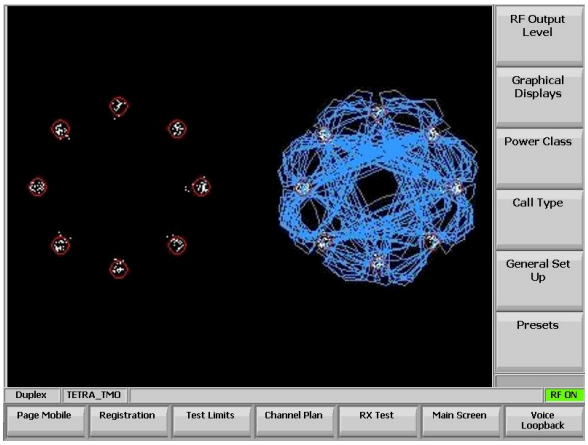
R8000C: TETRA DMO & TMO Digital Test Functionality Power Profile



R8000C: TETRA TMO Digital Test Functionality Test Limits



R8000C: TETRA DMO & TMO Digital Test Functionality Constellation



R8000C: TETRA TMO Digital Test Functionality Receiver Test



FREEDOM
Communication Technologies

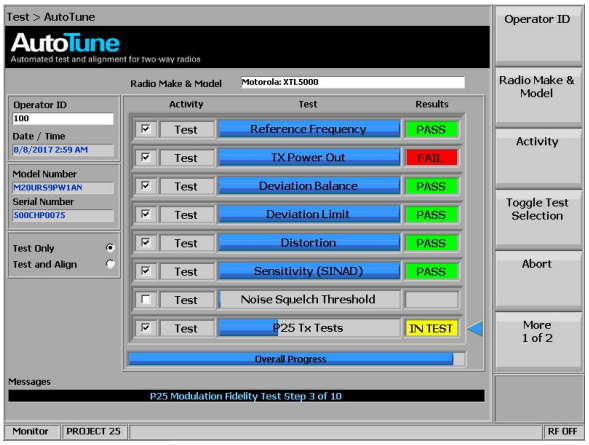
R8000C: Standard Functional Tests

- Radio TX Output Power
- Frequency Error
- Deviation, AM and FM
- Audio Frequency Measurements
- Spectrum Analysis
- Control PL (CTCSS) , DPL (DCS), Sequential
- Tones (Encode and Decode)
- VSWR / Return Loss
- Distance to Fault
- Receive Signal Strength Indication (RSSI)
- AC/DC Voltmeters
- Tracking Generator for Filter Test & Alignment
- Audio Quality, SINAD, Distortion and Level
- PL, DPL, DTMF, 2-Tone, 5/6 Tone and General Sequence
- Single Sideband (SSB) LSB and USB Analysis and Demodulation

R8000C: Standard On Board Features

- RF Signal Generator
- Frequency Error Meter
- Spectrum Analyzer
- Sensitive Receiver
- Distortion Meter
- Modulation Scope
- Oscilloscope
- Tracking Generator
- Cable Fault Locator
- FM Deviation Meter
- AM Modulation Meter
- RSSI Meter
- RF Power Meter
- Audio Generators
- AC/DC Voltmeter

R8000C: AutoTune



FREEDOM COMMUNICATION TECHNOLOGIES
2002 Synergy Blvd, Suite 200, Kilgore, Texas 75662
Toll Free Phone: (844)-90-FREEDOM or (844)-903-7333 Phone: (903)-985-8999 I Fax: (903)-985-8998
Email: sales@freedomcte.com I freedomcte.com

FREEDOM
Communication Technologies