

- The default value of Span/RBW is now 100.
- A new button to change VBW average type to Log.
- Marker menu
 - A 'Large' setting is now available for the Marker table to view marker readout in a large font.
- Trace menu
 - A new Trace Info button is now available in the Trace menu to show a concise listing of all parameters for the selected trace.
 - 'Reset Sweep' button has been renamed to 'Reset Trace' and moved to the Trace menu.
- Sweep menu
 - 'Manual Trigger' is now called 'Sweep Once'.
 - A new 'Sweep n Averages' button has been added to allow a full set of averages to sweep when the sweep is set to Single.
 - A new 'Auto Sweep Time' button has been added.
 - Trigger sub-menu has been revamped with the ability to add hysteresis to the video trigger level.
 - Gated Sweep Setup (Option 90) is now more responsive and has separate controls for gate view (zero span).
- Improvements and bug fixes to the Field Strength measurement.
- Fixed a bug where the instrument could lock up during preset.

Interference Analyzer

- New Interference Mapping capability added.
- Fixed a bug where the 'Save' window would also be saved when saving to jpeg from Spectrogram measurements.

Channel Scanner

- Fixed several bugs related to Script Master.

WCDMA

- HSDPA view has improved code marker behavior
- Speed enhancements
 - 3x improvement to multipath
 - 2x improvement to scanner

Channel Scanner

- Various fixes to scriptmaster

High Accuracy Power Meter

- Fixed bug where sensor would not work if plugged in prior to switching into mode

Spectrum Analyzer

- SCPI remote commands added for Gated Sweep Option
- Fixed a bug in recall setup that could cause a power measurement error.
- Improved spur performance over previous version of firmware
- Fixed Powermeter Auto Scale error.
- Fixed a bug regarding display in IA Spectrogram Measurements.
- For Gated Sweep Option 90, fixed the display in Channel Power and Occupied BW Measurements.

New integrated code which includes the Spectrum Analyzer, Interference Analyzer, Channel Scanner and Power Meter

- o This greatly speeds up mode switching between these four measurement modes

General Spectrum Analyzer bug fixes

- o Fixed W and V issue in Field Strength measurement
- o Fixed Zero Span and Counter Marker incompatibility issue
- o Fixed Trace A-B -> C issue
- o Fixed Trace B & C Max & Min hold issues
- o Fixed 750 measurement issue

SCPI remote commands added for Gated Sweep Option

Fixed a bug in recall setup that could cause a power measurement error.

Improved spur performance over previous version of firmware

Mobile WiMAX Analyzer

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- Fixed a bug in the display of BSID when DL-MAP is in compressed mode
 - Added absolute power values for preamble power in preamble scanner measurement

WCDMA Enhancements

Added support for HSPA+ (64 QAM only)

Added support for DTX (discontinuous transmission)

- o AMR (Adaptive Multi-Rate) support is included in this update

OTA (Over-the-Air) scanner speed improvement- Approximately twice as fast

Improved CDP (Code Domain Power) over the air measurement performance

- o Lower EVM
- o More active channels displayed

Added RMS Phase Error measurement to Modulation Summary screen

Fixed some W-CDMA bugs

- o Improved ghosting issues in Multi-Path measurement
- o CDP and Constellation measurements now synchronized in HSDPA screen (option 65)
- o Fixed manual SC (Scrambling Code) settings in OTA scanner

TD-SCDMA Measurement Mode

Added CDP (Code Domain Power) marker capability

Added CDP Table measurement

Added support for MBMS (Multimedia Broadcast Multicast Service)

Added SCPI (National Instruments VISA) programming support

CDMA Enhancements

Added new Limit Test measurement to the OTA (Over-the-Air) option in CDMA

CDMA Scanner improvements

- o Improved PN scan speed by more than 2X
- o Added PN Increment
- o Added a 'PN Sort'
- o Added new Absolute Power measurement field

Motorola LMF (base station control software)

- o Fixed a problem with Motorola LMF compatibility
- o Added support for Motorola UBS base stations to LMF

Fixed Tau measurement problem with Samsung BTS using external-trigger

CDMA Application

- Watts unit selection will now scale power results dynamically to mW, uW, pW, etc

EVDO Application

- Watts unit selection will now scale power results dynamically to mW, uW, pW, etc

GSM Application

- Added support for 'Script Master' which allows a user to run tests based on scripts generated in MST

High Accuracy Power Meter Application

- Added support for MA24104A Inline High Power sensor

Spectrum Analyzer Application

- Fixed several bugs related to Markers and Limit lines
- Users can now enter a specific marker frequency value without the instrument 'snapping' to the closest valid freq point
- Added Support for Option 90 - Gated Sweep
- Added a new Emission Mask measurement
- Fixed bug where Saved Measurement files contain Trace B and Trace C data even though they are not being used. They are now saved only when the traces are ON when saving

WCDMA Application

- Added support for GPIB

Operating System

- No Changes

CDMA Application

- No changes

EVDO Application

- Added ability to specify a 1.35 MHz span to be used for OBW calculation instead of the standard 2.5 MHz.

GSM Application

- Added support for demodulating Siemens BTS model 240
- Added BSIC decoding which replaces TSC as a measurement result.

High Accuracy Power Meter Application

- No changes

Spectrum Analyzer Application

- Fixed critical bug that would cause instrument to hang when using fast sweeps and Save On Event

- Fixed several bugs in Limit lines and Markers
- Fixed bug that caused manual RBW/VBW values to not recall correctly
- Revised some warning messages to be more informative (ADC Over range, Mixer Saturation, etc)
- Fixed a bug that caused Max Hold to not reset when RBW, VBW changed
- Added SCPI commands: :SENSe:OPTion:IF:BWStAtE?, :SENSe:OPTion:IF:BWStAtE [1|2|3|4],:CALCulate:LIMit:FAIL?, :CALCulate:LIMit:LOWer:FAIL?, :CALCulate:LIMit:UPPer:FAIL?,MMEMory:STORe:JPEG "filename", and MMEMory:DATA? "filename.ext".

WCDMA Application

- Fixed a bug where markers would not read out correctly in non default spans
- Added ability to change units to W and mW
- SCPI support added for changing Span in Channel Spectrum view

Fixed WiMAX Application

- Fixed a bug where Alternate ACP when BW = 6MHz was junk (~+46dBm)
- Improved responsiveness to button presses

Mobile WiMAX Application

- Added support for Compressed DL-MAP
- Added support for 3.5MHz and 7MHz BWs
- Added display of 48 bit BS ID
- Fixed a bug in demodulation when total number of symbols > 12
- Fixed a problem where Constellation display did not display data from all the bursts

Spectrum Analyzer Mode

- Added Linear Units
- Added vertical limit lines
- Added limit mirror
- New SCPI commands for the above newly added features.
- Fixed SCPI command :TRACe:DATA? so that it will always return data or #0 when data is invalid.
- Traces not active when saved will not be recalled
- Added capability to skip average count on the screen when it's sweeping faster than we can update the count on the screen
- Fixed problem with trace values not adjusting to the Reference Level Offset changed.

WCDMA Signal Analyzer Mode

- No change

Fixed WiMAX Signal Analyzer Mode

- No change

Mobile WiMAX Signal Analyzer Mode

- No change

High Accuracy Power Meter Mode

- No change

- Front panel response speed up
- Added Zero-span markers and limits
- Added save/recall functionality for Trace B and Trace C
- Added relative reference and scale for trace math
- Added the message "*Settings changed, sweep data invalid*" when a sweep has not been completed with the new setting
- Min/Max hold on Trace B
- Fixed a signal standard problem where changing span would invalidate the signal standard but not removing it from the screen
- General speedup in SCPI and save/recall
- Added resizable marker table
- Added sweep rabbit
- More robust limits
- Fixed a problem where turning on Counter Marker in a narrow span would crash the system
- new SCPI commands for Markers, limits, signal standards, save/recall, traces, occupied bandwidth, external frequency, and frequency steps
- If averaging is on, manual trigger is now changed to trigger a sweep base on the number of averaging set.
- No full screen support

>>> NOTE: Only dBm unit supported. It will come in the next release.

WCDMA Signal Analyzer Mode

- Fixed a problem where Spectrum Emission Mask: measurement results for highest levels in each zone of the specmask had the correct level but reported incorrect frequencies
- Modified certain frequency SCPI responses to give 1 digit after the decimal point
- Channel INC/DEC functions on the Freq menu were not functioning properly after returning from the Band Spectrum view. Instead of getting the next/previous channel relative to the channel that was identified in Band Spectrum view, the channel was being modified based on the channel that was selected prior to entering Band Spectrum view. This problem has been fixed

- Fixed a bug where the 'GPS High Accuracy' state for the internal frequency reference was lost when switching between certain modes

Fixed WiMAX Signal Analyzer Mode

- Initial release

Mobile WiMAX Signal Analyzer Mode

- Initial release

High Accuracy Power Meter Mode

- Added support for MA24106A USB power sensors

GSM/EDGE Signal Analyzer Mode

- Initial release

CDMA Signal Analyzer Mode

- Initial releases

EVDO Signal Analyzer Mode

- Initial release

Operating System

Initial release

Spectrum Analyzer Mode

Initial release

WCDMA Mode

Initial release

High Accuracy Power Meter Mode

Initial release