/Inritsu

BlueSuite Pro3

Graphical test & analysis software for the MT8852B

BlueSuite Pro 3

Introducing BlueSuite Pro3

BlueSuite Pro3 is a powerful software package designed for use with the MT8852B Bluetooth Test Set.

BlueSuite Pro3 allows you to:-

· View EUT packets through the display of frequency deviation, power burst profile, IQ constellation, and vector graphs.

· Configure and run sensitivity sweeps and display the results graphically.

· Configure and run measurement sweeps for seven different tests and display the results graphically for each of the 79 Bluetooth channels.

· Configure and run audio tests and display the results graphically.

· Configure and run a power control test and display the results graphically.

· Read and write script and limit settings to and from the MT8852B.

· Edit and run a complete test script and generate a detailed report of the results.

· Step through individual connection and test mode controls to determine the cause of problems otherwise difficult to isolate.
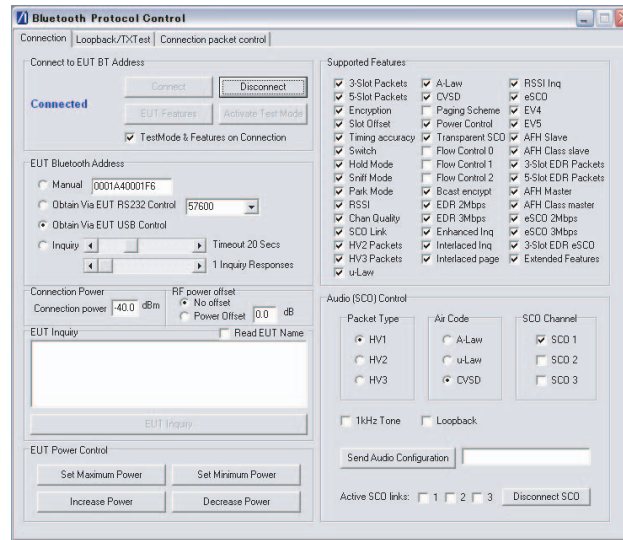
Configure the instrument and establish a GPIB connection with the MT8852B.
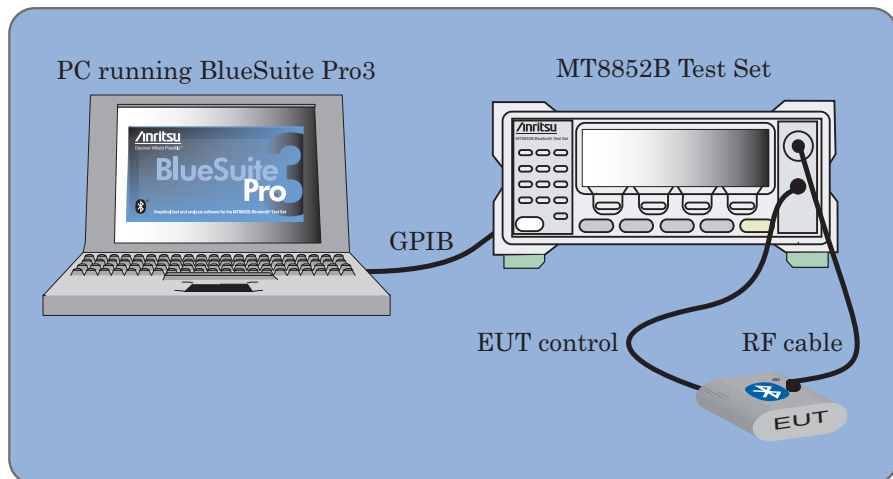
Establish a Bluetooth connection
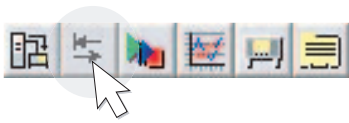
Use the [Bluetooth Protocol Control] window to establish a Bluetooth connection, activate test mode, and read the EUT supported features. The SCO settings of the EUT can be fully controlled to facilitate audio testing and validate SCO functionality.


Send individual test controls to the EUT and loop back packets for graphical viewing and analysis.
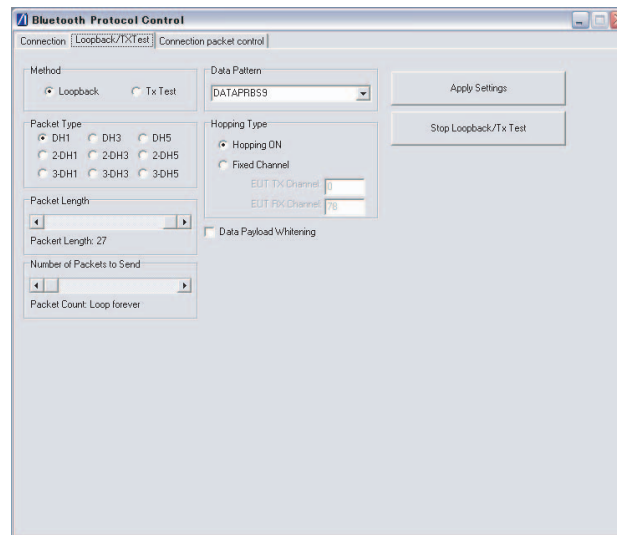
View Standard Rate and EDR Packets
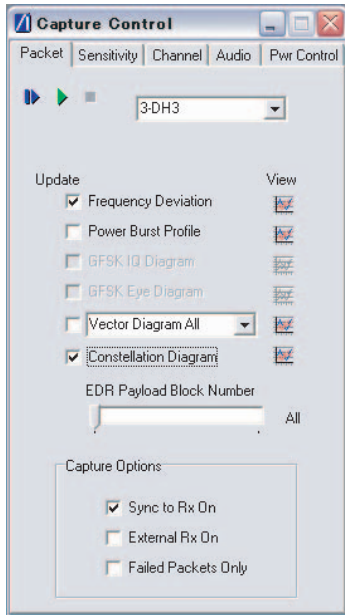
Open the [Capture Control] dialog, select the required analysis mode and click Run or Run Continuous. Both standard rate GFSK and EDR (π/4DQPSK and 8DPSK) modulated packets can be analyzed in detail by selecting from a number of waveform options; Frequency Deviation vs Symbol, Power Burst Profile, Vector diagrams, and Constellation diagrams. Use free run triggering for continuous monitoring, or select the "Failed Packets Only" trigger to capture intermittent faults within the EUT. Two markers plus print and file saving features optimize traces for archiving or inclusion in reports.
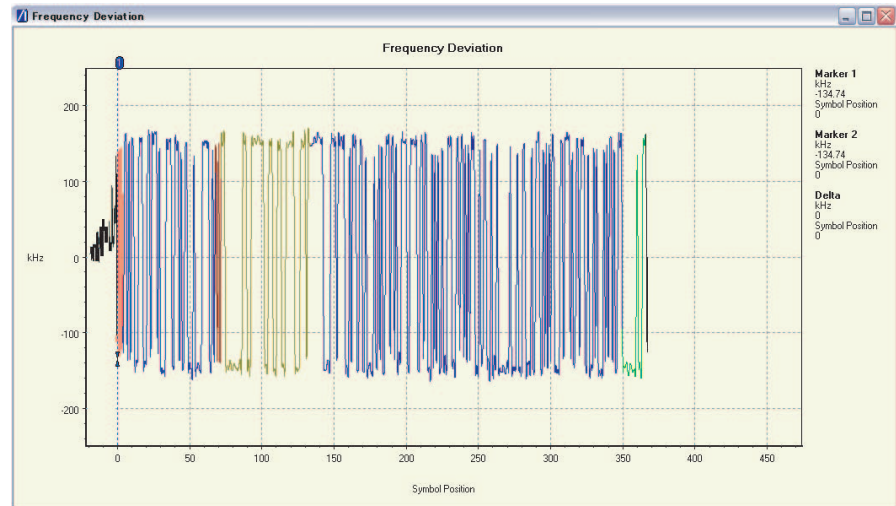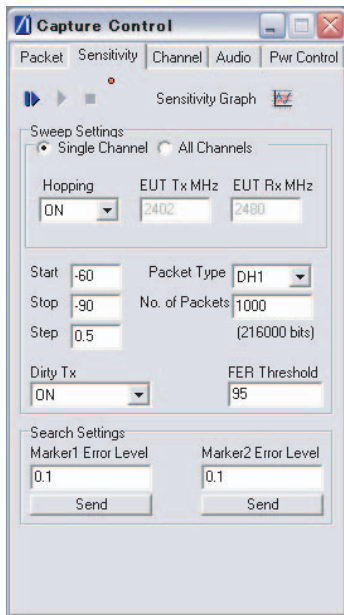
DH1 Frequency Deviation Trace

Color coding in trace identifies preamble, access code, header, payload, and CRC.
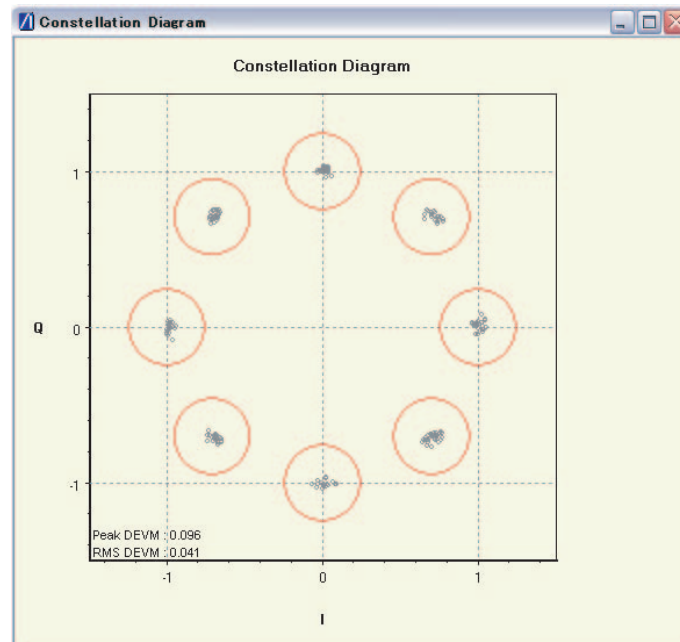
8DPSK Constellation Diagram

Displays all payload symbols or individual 50 μs blocks.

Sensitivity Sweeps Simplified

Select the [Sensitivity] tab to analyze the EUT receiver sensitivity performance in detail. Select between EUT sensitivity sweeps with hopping ON or selected individual channels with hopping OFF. Full EUT sensitivity on each channel is automated, reducing test time to a minimum. Both Frame Error and Bit Error Rates are displayed.
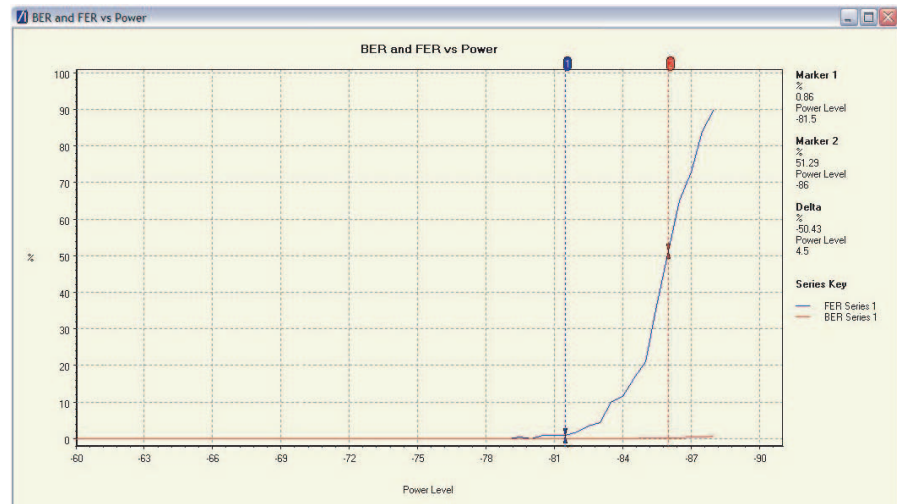
*Receiver sensitivity search with traces for FER and BER.*
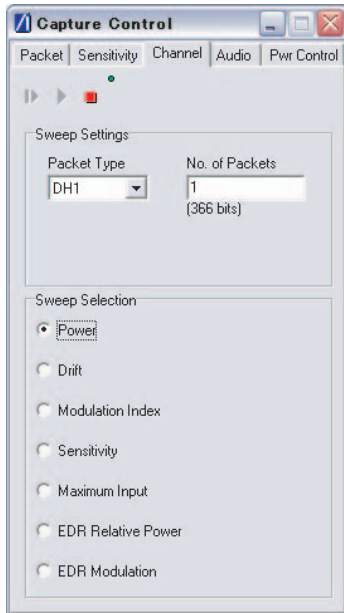
Click the [Channel] tab to characterize the EUT performance on each of the 79 Bluetooth channels. This test suite verifies that all channels are performing to specification and isolates faults that may not appear in routine testing. Maximum and minimum average packet power levels as well as peak symbol power are displayed for each frequency.
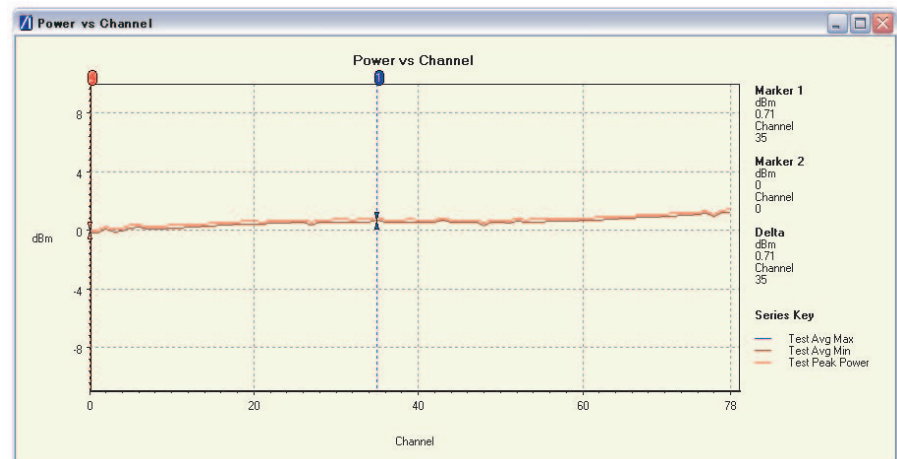
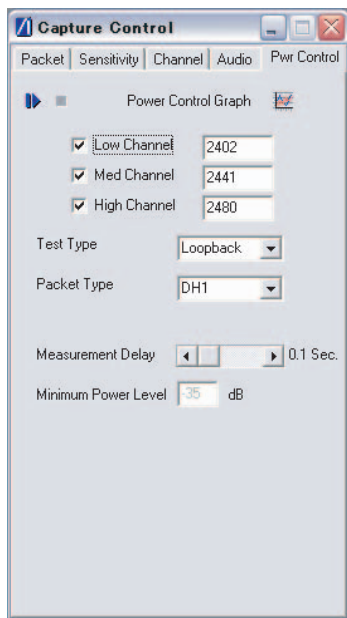*EUT GFSK output power on all channels.*

Automated Audio Analysis
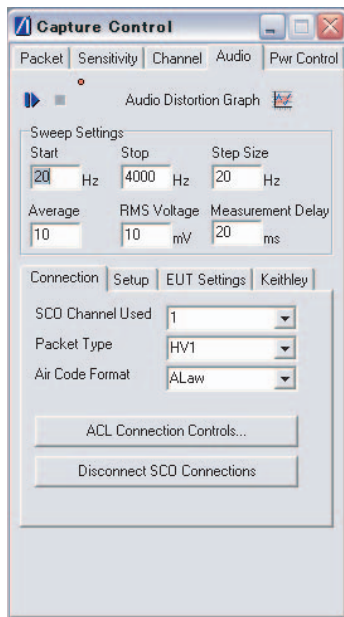
Use the [Audio] tab to quickly test the EUT audio frequency response and distortion. BlueSuite Pro3 controls the MT8852B and a Keithley 2015 audio generator/analyzer to fully automate audio measurements.
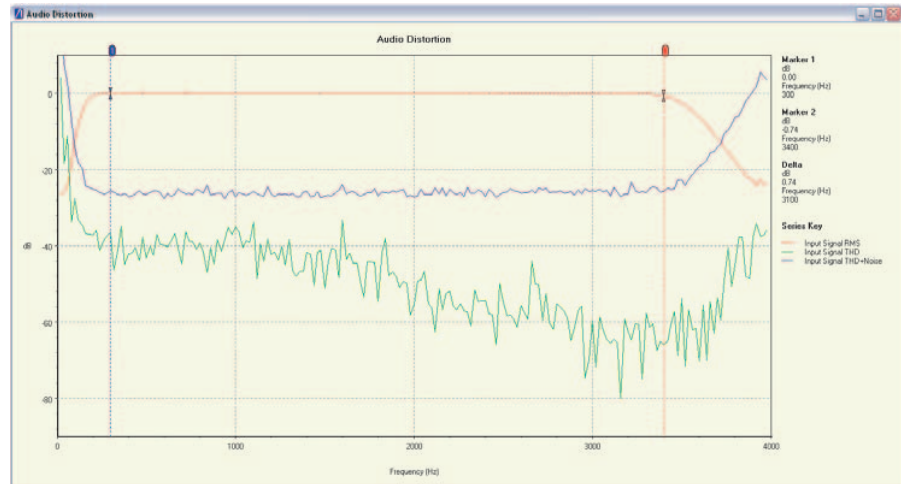
Automated SCO frequency response and distortion traces.

Select the [Pwr Control] tab to view the power ramping characteristics of EUTs supporting power control.
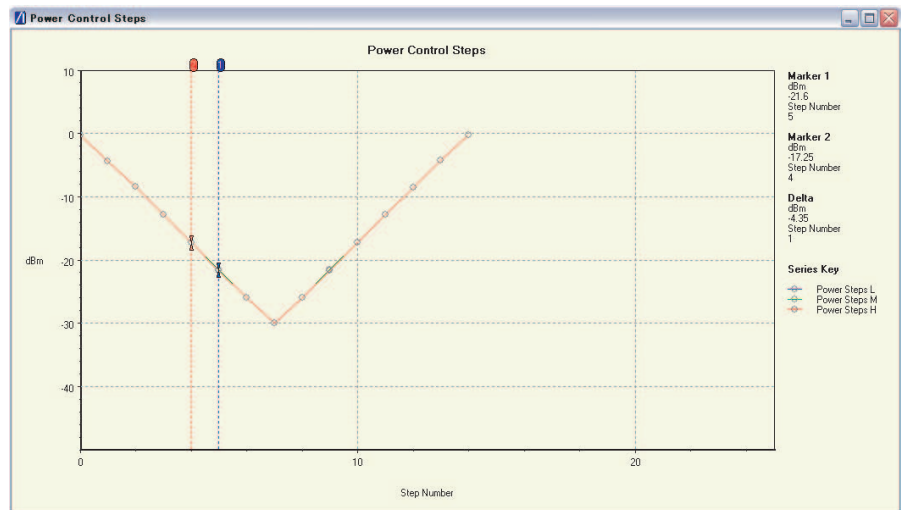
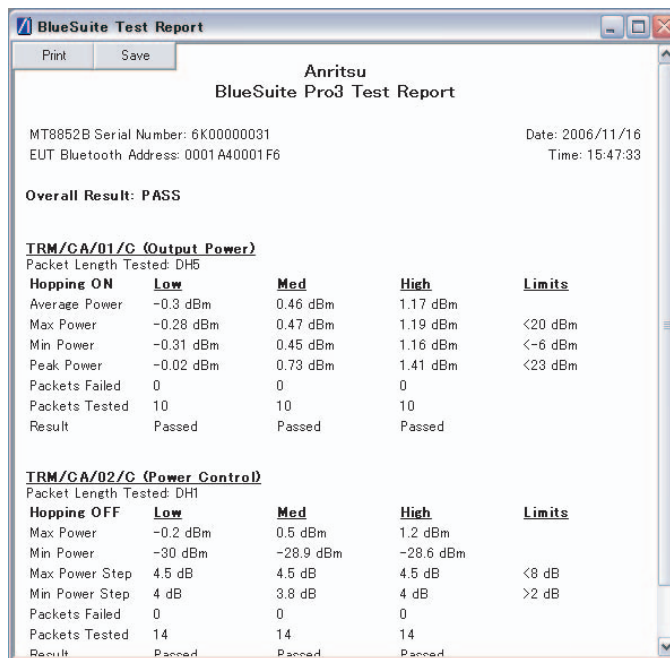*EUT power control showing individual step powers and sizes.*

Generate and run a test script

Open the [Script Control] dialog to define and execute test scripts on the MT8852B and create test reports for archiving and analysis. The resultant test reports are clearly formatted and form the basis of test records for EUTs in development.
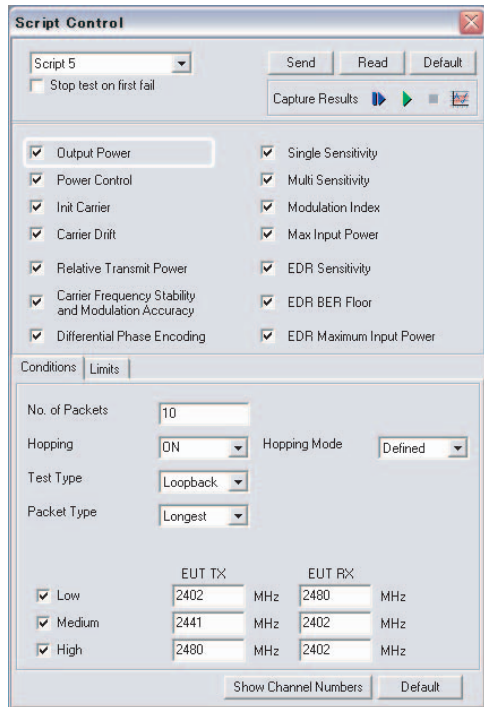
[Script Control] for definition and execution of test scripts.

Automatically generated test report.

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Ordering information:

Part number	Item
MX885201B	BlueSuite Pro3
MX885201B-301	Upgrade from BlueSuite Pro2 to BlueSuite Pro3

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