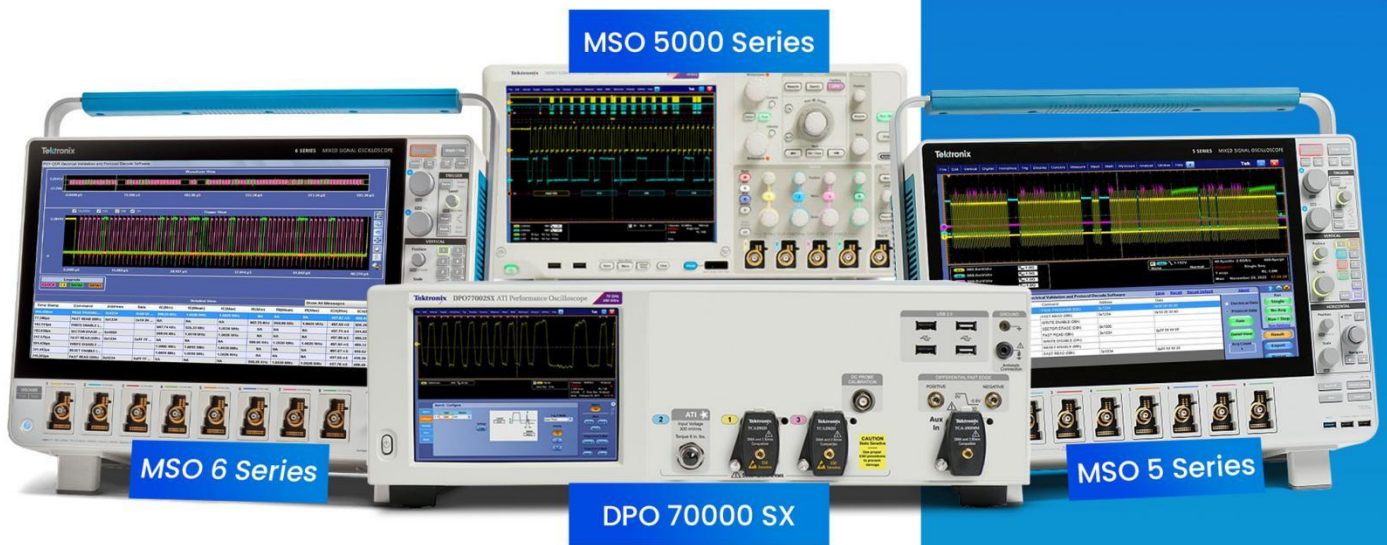
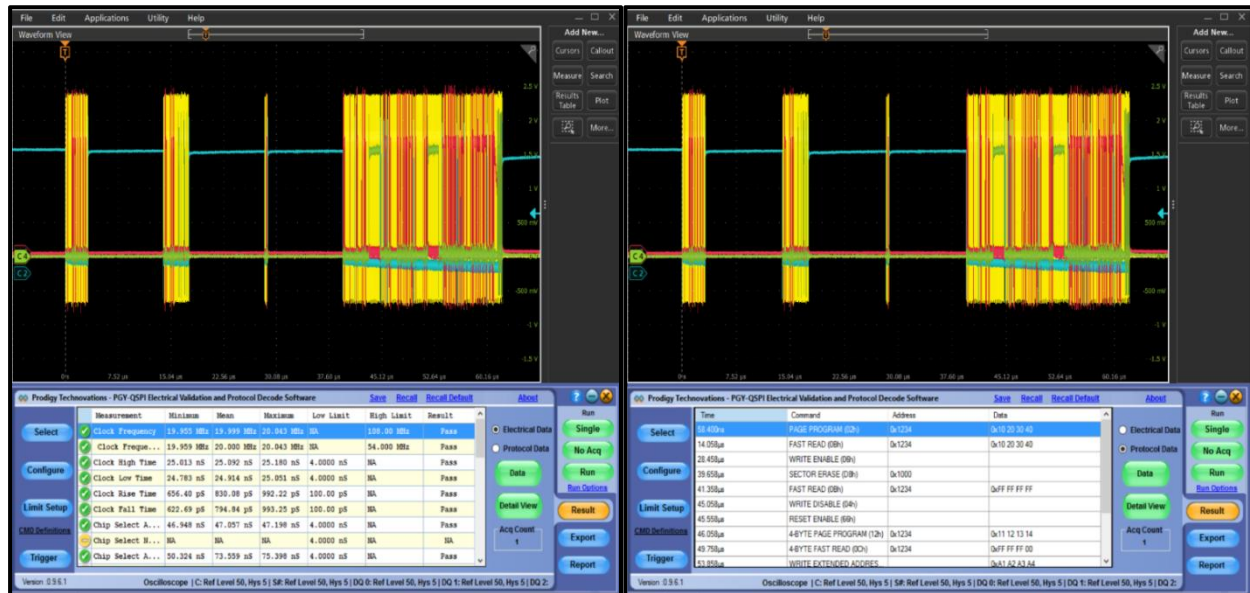


QSPI

Electrical Validation &
Protocol Decode Software



QSPI Electrical Validation & Protocol Decode Software



Electrical validation results

Protocol Decode results

QSPI Electrical Validation and Protocol Decode Software offers electrical measurements compliance testing and protocol decoding as specified in QSPI specification. PGY-QSPI Electrical validation and Protocol decode software runs in Tektronix Oscilloscope and provides electrical measurements and protocol decode at the click of a button. This allows engineers quickly check for QSPI compliance and flexibility to debug the failure. In addition to this engineer can decode the command and response of QSPI to debug the communication. PGY-QSPI takes advantage of digital channels of MSO and provides the decoding of QSPI data lines.

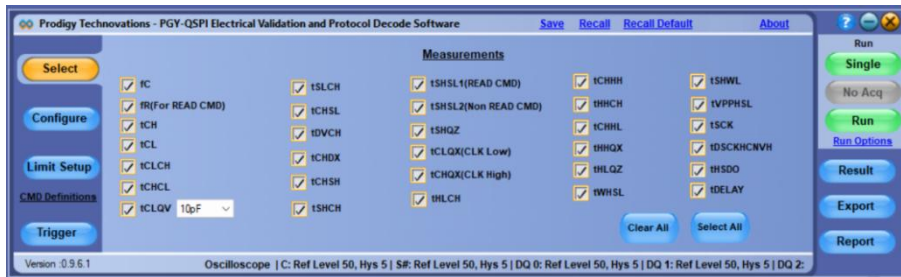
Key Features

- ✦ Single and Dual Transfer rate (STR/DTR).
- ✦ Supports electrical measurements and compliance testing for Extended SPI, Dual SPI, and Quad SPI.
- ✦ Supports Triggering on command index and on S# falling edge.
- ✦ Supports Analog and Digital Channels of Tektronix MSO.
- ✦ Automated electrical measurements with a customizable reference level of QSPI electrical signal.
- ✦ Customizable measurement limit setup for pass/fail validation of electrical signal to enable measurements.
- ✦ Links the protocol content to the electrical signal in the oscilloscope for easy understanding of the electrical characteristics of the protocol.
- ✦ Color codes protocol content for easy analysis.
- ✦ Ability to store the QSPI protocol data and electrical data in CSV and txt format.
- ✦ Utility features like zoom, undo and fit to screen for easy debugging while correlating the protocol data to the waveform.
- ✦ Report Generation.
- ✦ Supports offline analysis.



Electrical Measurement

PGY-QSPI software provides an extensive list of electrical measurements, which can be selected using the Select Panel in the software GUI.

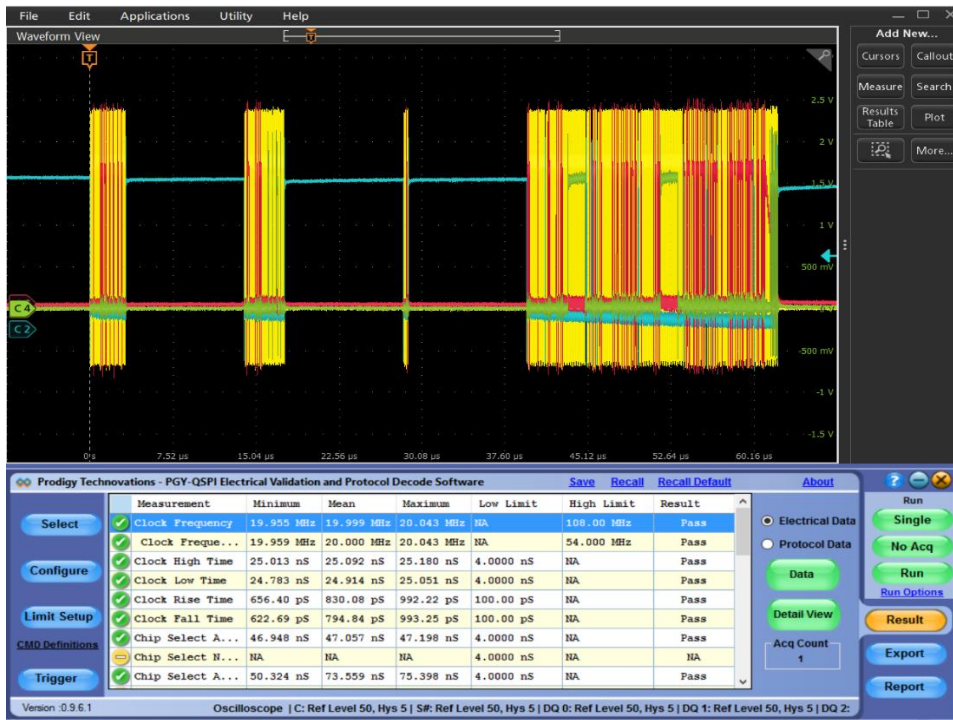


List of electrical measurements we support for QSPI

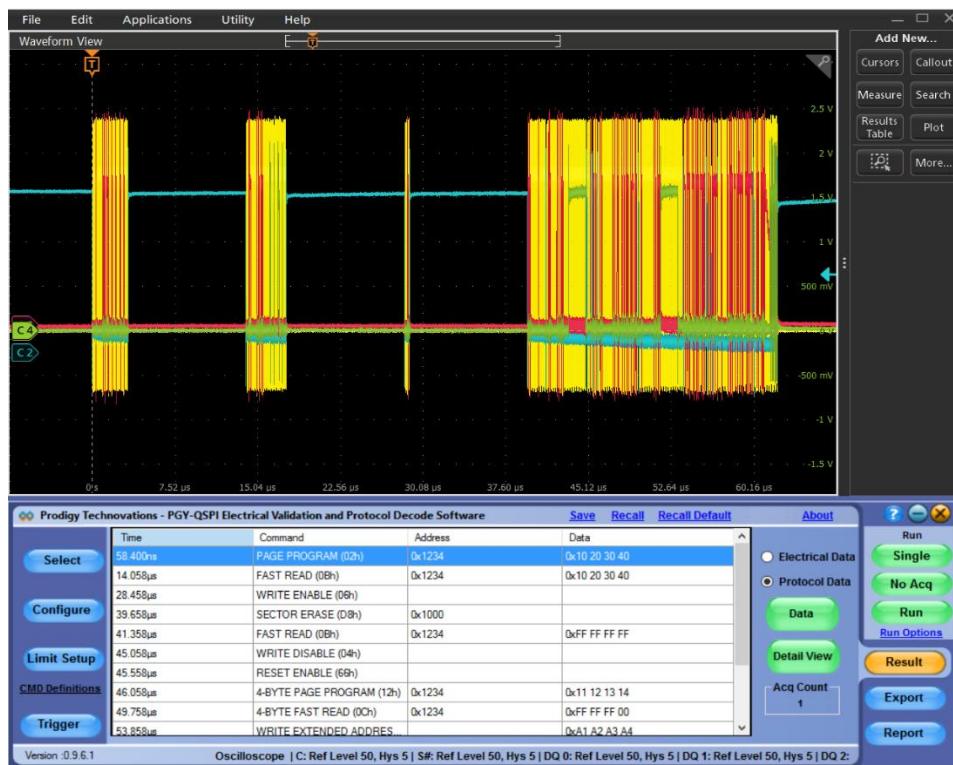
Symbol	Measurement	
fC	Clock frequency for all commands other than reading	✓
fR	Clock frequency for read commands	✓
tCH	Clock High time	✓
tCL	Clock Low time	✓
tCLCH	Clock Rise time	✓
tCHCL	Clock Fall time	✓
tCLQV	CLK low to output valid under 10pF/30pF	✓
tSLCH	S# active setup time (relative to the clock)	✓
tCHSL	S# not active hold time (relative to the clock)	✓
tDVCH	Data in setup time	✓
tCHDX	Data in hold time	✓
tCHSH	S# active hold time (relative to the clock)	✓
tSHCH	S# not active setup time (relative to the clock)	✓
tSHSL1	S# deselect time after a READ command	✓
tSHSL2	S# deselect time after a non READ command	✓
tSHQZ	Output disable time	✓
tCLOX (CLK Low)	Output Hold time (clock low)	✓
tCHQX (CLK High)	Output Hold time (clock high)	✓
tHLCH	HOLD command setup time (relative to the clock)	✓
tCHHH	HOLD command hold time (relative to the clock)	✓
tHHCH	HOLD command setup time (relative to the clock)	✓
tCHHL	HOLD command hold time (relative to the clock)	✓
tHHQX	HOLD command to output Low-Z	✓
tHLQZ	HOLD command to output High-Z	✓
tWHSL	Write protect setup time	✓
tSHWL	Write protect hold time	✓
tVPPHSL	Enhanced VPPH HIGH to S# LOW for extended and dual I/O page program	✓
tSCK	Clock period	✓
tDSCKHCNVH	Clock Delay time to CS	✓
tHSDO	DQ0 data valid delay from clock	✓
tDELAY	Clock to data delay	✓

Electrical Validation and Protocol Decode

PGY-QSPI will automatically calculate all the electrical measurements and generate results as per the limits set.



PGY-QSPI will also display the protocol-decoded information in a listing manner with all relevant information.



PGY-QSPI has a feature called detail view, which is essentially a very powerful debugging tool. In detail view, each protocol-decoded data is linked to its respective position in the waveform for easy debugging of protocol-related problems.



Tektronix Oscilloscopes Supported:

- DPO/MSO5000 series
- DPO7000 series
- DPO/MSO/DSA 70000 series
- MSO5 series, MSO6 series

About Prodigy Technovations Pvt Ltd

Prodigy Technovations Pvt Ltd (www.prodigytechno.com) is a leading global technology provider of Protocol Decode, and Physical layer testing solutions on test and measurement equipment. The company's ongoing efforts include successful implementation of innovative and comprehensive protocol decode and physical layer testing solutions that span the serial data, telecommunications, automotive, and defense electronics sectors worldwide.



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