

Jitter and Eye Diagram Analysis Tools : Measurement Report



April 24, 2014 9:51:13 AM

► Configuration

► Setup Configuration

Oscilloscope Version 6.8.1 Build 3
DPOJET Version 6.0.2 Build 3

► Measurement Configuration

Index	Measurement	Source (s)	Others
1	TIE1	Ch1	Edges => Signal Type: Auto, Clock Edge: Rise Clock Recovery => Method: Constant Clock – Mean, Auto Calc: Every Acq, Nominal Data Rate: Off, Bit Rate: 2.5Gb/s, Known Data Pattern: Off, Pattern Filename: C:\Users\Public\Tektronix\Tekapplications\DPOJET\Patterns\PRBS127.txt Filters => F1: Spec: No Filter, F2: Spec: No Filter General => Measurement Range Limits: Off, Max: 1ns, Min: -1ns, Custom Source Name: --
2	Height1	Ch1	Bit Config => Bit Type: All Bits Clock Recovery => Method: Constant Clock – Mean, Auto Calc: Every Acq, Nominal Data Rate: Off, Bit Rate: 2.5Gb/s, Known Data Pattern: Off, Pattern Filename: C:\Users\Public\Tektronix\Tekapplications\DPOJET\Patterns\PRBS127.txt General => Measurement Range Limits: Off, Max: 500mV, Min: 50mV, Custom Source Name: --
3	TJ@BER1	Ch1	Edges => Signal Type: Auto, Clock Edge: Rise Clock Recovery => Method: Constant Clock – Mean, Auto Calc: Every Acq, Nominal Data Rate: Off, Bit Rate: 2.5Gb/s, Known Data Pattern: Off, Pattern Filename: C:\Users\Public\Tektronix\Tekapplications\DPOJET\Patterns\PRBS127.txt RjDj => Pattern Type: Arbitrary, Window Length: 5UI, Population: 100, BER = 1E-12 Filters => F1: Spec: No Filter, F2: Spec: No Filter General => Measurement Range Limits: Off, Max: 1ns, Min: 0s, Custom Source Name: --
4	RJ-dd1	Ch1	Edges => Signal Type: Auto, Clock Edge: Rise Clock Recovery => Method: Constant Clock – Mean, Auto Calc: Every Acq, Nominal Data Rate: Off, Bit Rate: 2.5Gb/s, Known Data Pattern: Off, Pattern Filename: C:\Users\Public\Tektronix\Tekapplications\DPOJET\Patterns\PRBS127.txt RjDj => Pattern Type: Arbitrary, Window Length: 5UI, Population: 100 Filters => F1: Spec: No Filter, F2: Spec: No Filter General => Measurement Range Limits: Off, Max: 1ns, Min: 0s, Custom Source Name: --
5	DJ-dd1	Ch1	Edges => Signal Type: Auto, Clock Edge: Rise Clock Recovery => Method: Constant Clock – Mean, Auto Calc: Every Acq, Nominal Data Rate: Off, Bit Rate: 2.5Gb/s, Known Data Pattern: Off, Pattern Filename: C:\Users\Public\Tektronix\Tekapplications\DPOJET\Patterns\PRBS127.txt RjDj => Pattern Type: Arbitrary, Window Length: 5UI, Population: 100 Filters => F1: Spec: No Filter, F2: Spec: No Filter General => Measurement Range Limits: Off, Max: 1ns, Min: 0s, Custom Source Name: --
6	Width@BER1	Ch1	Edges => Signal Type: Auto, Clock Edge: Rise Clock Recovery => Method: Constant Clock – Mean, Auto Calc: Every Acq, Nominal Data Rate: Off, Bit Rate: 2.5Gb/s, Known Data Pattern: Off, Pattern Filename: C:\Users\Public\Tektronix\Tekapplications\DPOJET\Patterns\PRBS127.txt RjDj => Pattern Type: Arbitrary, Window Length: 5UI, Population: 100, BER = 1E-12 Filters => F1: Spec: No Filter, F2: Spec: No Filter General => Measurement Range Limits: Off, Max: 900mUI, Min: 100mUI, Custom Source Name: --
7	Freq1	Ch1	Edges => Signal Type: Auto, Clock Edge: Rise Filters => F1: Spec: No Filter, F2: Spec: No Filter General => Measurement Range Limits: Off, Max: 10GHz, Min: 1MHz, Custom Source Name: --
8	Phase Noise1	Ch1	Edges => Active Edge: Rise, Noise Integration Limits: Upper Frequency: 1MHz, Lower Frequency: 0Hz Filters => F1: Spec: No Filter, F2: Spec: No Filter General => Measurement Range Limits: Off, Max: 1ms, Min: 0s, Custom Source Name: --

► Source Reference Levels

Source	Autoset Method	Rise High	Rise Mid	Rise Low	Hysteresis	Fall High	Fall Mid	Fall Low
Ch1	Auto(Low-High(full wfm))	642.62mV	33.4mV	-575.82mV	45.691mV	642.62mV	33.4mV	-575.82mV
Ch2	Auto	1V	0V	-1V	30mV	1V	0V	-1V
Ch3	Auto	1V	0V	-1V	30mV	1V	0V	-1V
Ch4	Auto	1V	0V	-1V	30mV	1V	0V	-1V
Math1	Auto	1V	0V	-1V	30mV	1V	0V	-1V
Math2	Auto	1V	0V	-1V	30mV	1V	0V	-1V
Math3	Auto	1V	0V	-1V	30mV	1V	0V	-1V
Math4	Auto	1V	0V	-1V	30mV	1V	0V	-1V
Ref1	Auto	1V	0V	-1V	30mV	1V	0V	-1V
Ref2	Auto	1V	0V	-1V	30mV	1V	0V	-1V
Ref3	Auto	1V	0V	-1V	30mV	1V	0V	-1V
Ref4	Auto	1V	0V	-1V	30mV	1V	0V	-1V

► Miscellaneous Settings

	Source Gating	Source Quality	Stat Population Limit
State	Off	Off, Active: High	Off, Limit By: Acquisitions, Stop Condition: Each Measurement
Source	--	Ch4	--
Size	--	--	1k

► Measurement Results

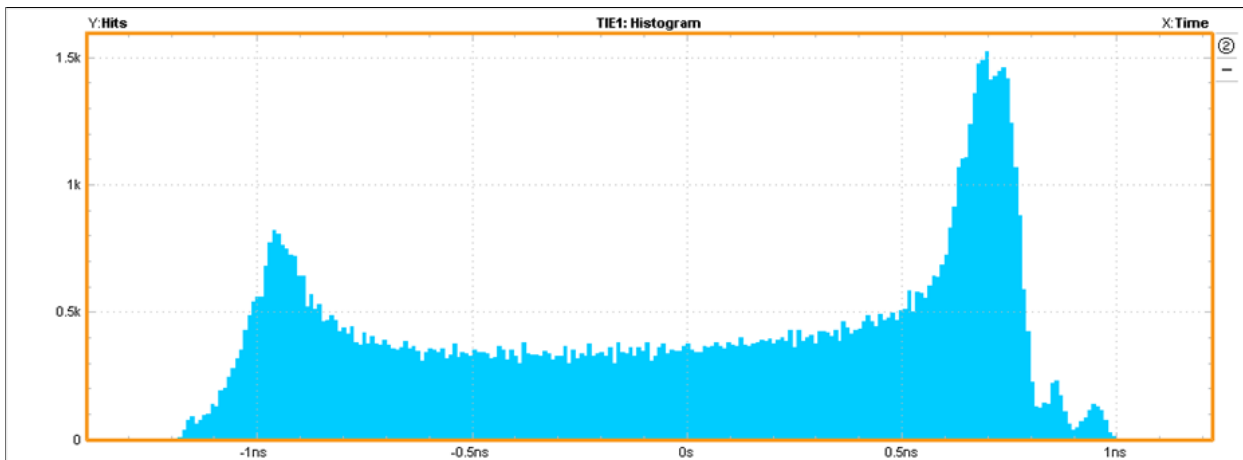
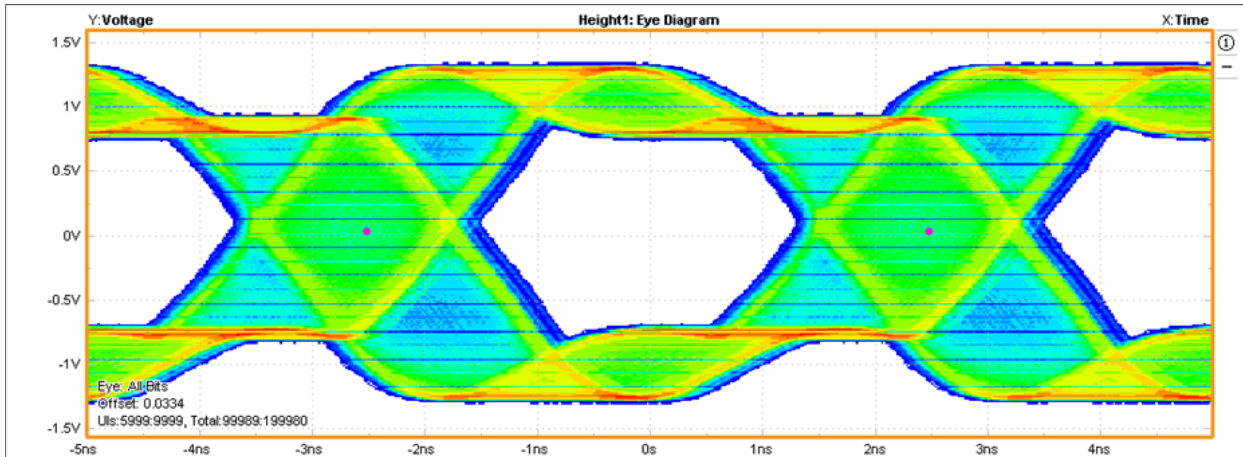
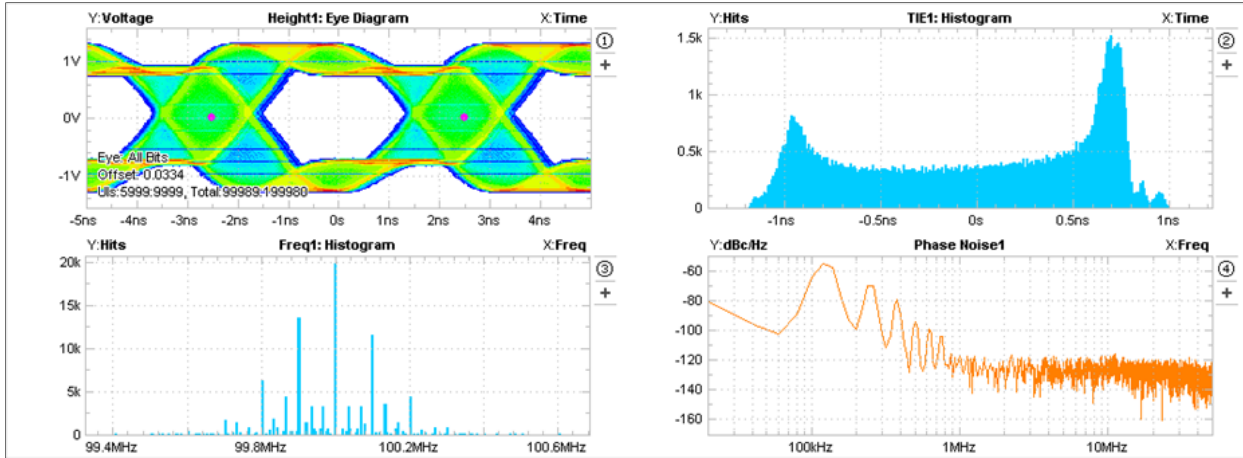
Description	Mean	Std Dev	Max	Min	p-p	Population	Max-cc	Min-cc
TIE1, Ch1	0.0000s	624.37ps	997.79ps	-1.1846ns	2.1824ns	104979	58.466ps	-61.560ps
<i>Current Acquisition</i>	1.4362as	617.18ps	792.90ps	-998.23ps	1.7911ns	4999	48.465ps	-41.535ps
Height1, Ch1	1.4457V	5.2988mV	1.4559V	1.4384V	17.511mV	21	0.0000V	0.0000V
<i>Current Acquisition</i>	1.4499V	0.0000V	1.4499V	1.4499V	0.0000V	1	0.0000V	0.0000V
TJ@BER1, Ch1	2.3723ns	237.12ps	2.6609ns	1.9786ns	682.39ps	21	0.0000s	0.0000s
<i>Current Acquisition</i>	2.6053ns	0.0000s	2.6053ns	2.6053ns	0.0000s	1	0.0000s	0.0000s
RJ-dd1, Ch1	45.300ps	17.790ps	66.970ps	20.479ps	46.490ps	21	0.0000s	0.0000s
<i>Current Acquisition</i>	66.401ps	0.0000s	66.401ps	66.401ps	0.0000s	1	0.0000s	0.0000s

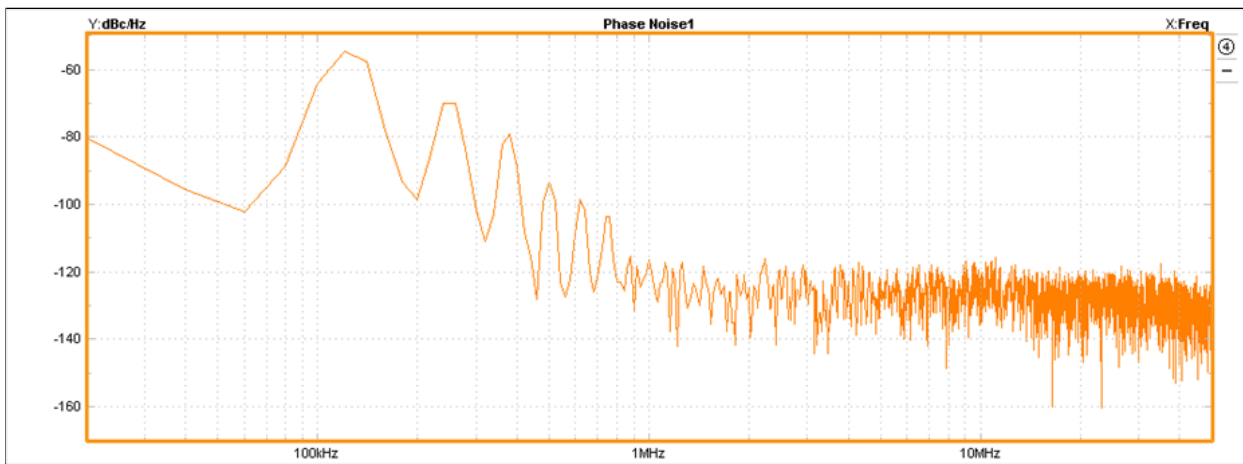
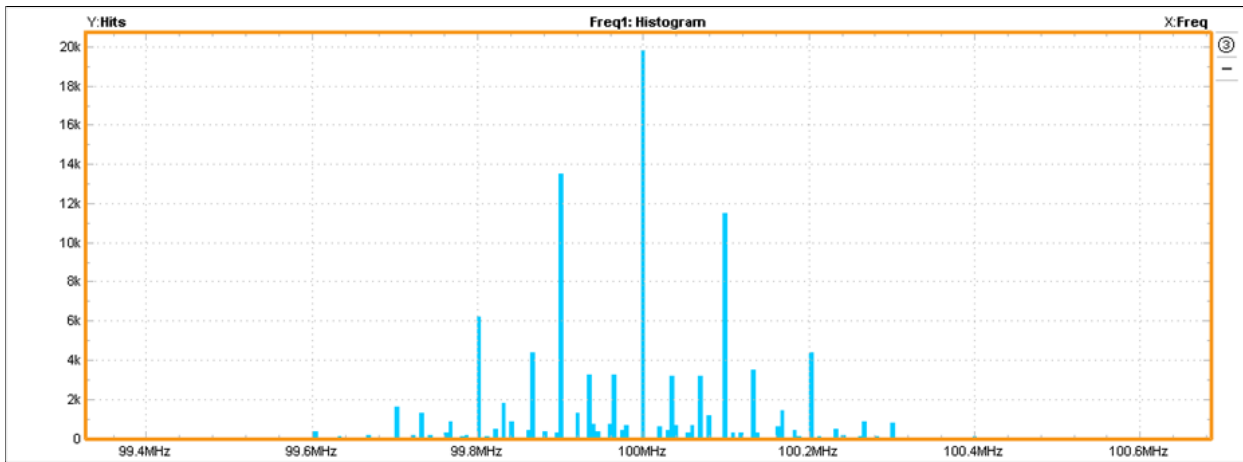
DJ-dd1, Ch1	1.7381ns	106.99ps	2.0559ns	1.6330ns	422.81ps	21	0.0000s	0.0000s
Current Acquisition	1.6757ns	0.0000s	1.6757ns	1.6757ns	0.0000s	1	0.0000s	0.0000s
Width@BER1, Ch1	7.6293ns	237.12ps	8.0230ns	7.3406ns	682.36ps	21	0.0000s	0.0000s
Current Acquisition	7.3962ns	0.0000s	7.3962ns	7.3962ns	0.0000s	1	0.0000s	0.0000s
Freq1, Ch1	99.984MHz	131.02kHz	100.60MHz	99.404MHz	1.2000MHz	104958	899.12kHz	-902.72kHz
Current Acquisition	99.986MHz	129.59kHz	100.40MHz	99.502MHz	899.12kHz	4998	800.01kHz	-800.01kHz
Phase Noise1, Ch1	663.82ps	36.529ps	779.51ps	634.93ps	144.58ps	21	0.0000s	0.0000s
Current Acquisition	651.90ps	0.0000s	651.90ps	651.90ps	0.0000s	1	0.0000s	0.0000s

▶ **Pass/Fail Summary** No pass/fail limits are currently selected.

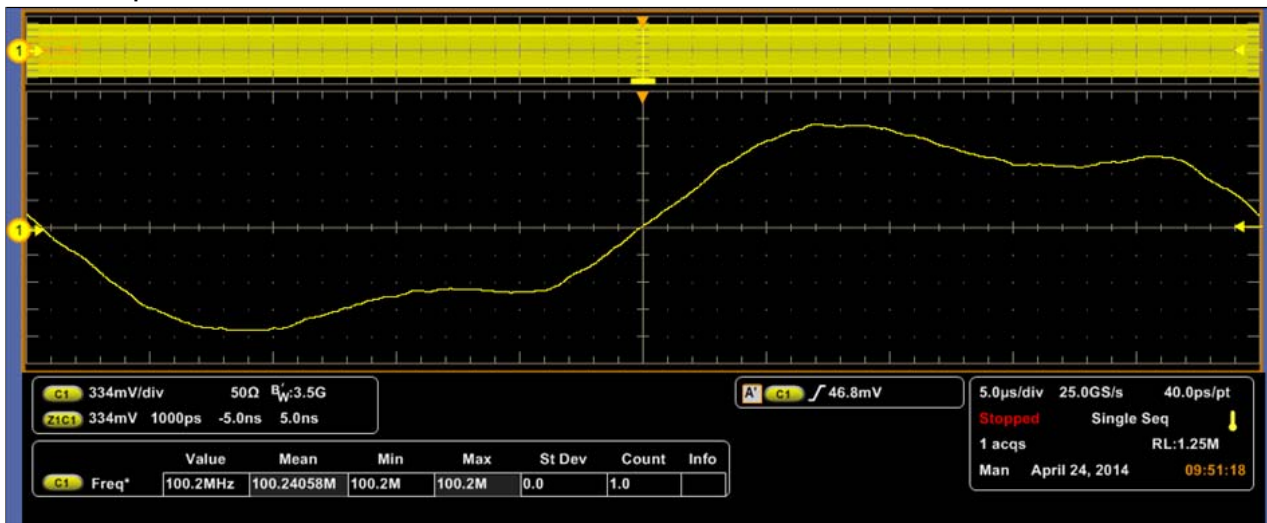
▶ **Plot Images**

▶ **Measurement Plot(s)**





▶ Oscilloscope Waveform



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