TekExpress Ethernet

100BASE-T Test Report

Setup Information			
DUT ID	7206	Scope Information	MSO64B, C033281
Date/Time	2025-08-27 15:12:20	Scope F/W Version	1.34.9.73
Device Type	Ethernet	DATA Probe Model	TDP1500
TekExpress Ethernet Version	1.2.6.6	DATA Probe Serial Number	B044664
TekExpress Framework Version	4.17.0.58		
Execution Mode	Live		
Compliance Mode	True		
Overall Test Result	Pass		
Overall Execution Time	0:03:14		
DUT COMMENT:	General comment		

Test Name Summary Table	
AOI Template	Pass
Fall Time (Pos)	Pass
Fall Time (Neg)	Pass
Rise Time (Pos)	Pass
Rise Time (Neg)	Pass
RF Symmetry (Pos)	Pass
RF Symmetry (Neg)	Pass
RF Symmetry (Max-Min)	Pass
Overshoot (Pos)	Pass
Overshoot (Neg)	Pass
Differential Output Voltage (Pos)	Pass
Differential Output Voltage (Neg)	Pass
Amplitude Symmetry	Pass
Jitter (Pos)	Pass
Jitter (Neg)	Pass
Duty Cycle Distortion	Pass

AOI Template

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
AOI_Template	1	0	Pass	H:1	N.A	1	Hits	No Hits
COMMENTS	Mask Scale :Normal							

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Fall Time (Pos)

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
Fall_Time_Pos	1	4.0380	Pass	L:1.0380 H:0.9620	3	5	ns	None
COMMENTS								

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Fall Time (Neg)

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
Fall_Time_Neg	1	4.0529	Pass	L:1.0529 H:0.9471	3	5	ns	None
COMMENTS								

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Rise Time (Pos)

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
Rise_Time_Pos	1	4.0613	Pass	L:1.0613 H:0.9387	3	5	ns	None
COMMENTS								

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Rise Time (Neg)

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
Rise_Time_Neg	1	4.0889	Pass	L:1.0889 H:0.9111	3	5	ns	None
COMMENTS								

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RF Symmetry (Pos)

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
RF_Symmetry_Pos	1	105.3268	Pass	H:394.6732	N.A	500.0	ps	RiseTime:4.04ns FallTime:3.94ns
COMMENTS								

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RF Symmetry (Neg)

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
RF_Symmetry_Neg	1	78.5402	Pass	H:421.4598	N.A	500.0	ps	RiseTime:3.98ns FallTime:4.06ns
COMMENTS								

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RF Symmetry (Max-Min)

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
RF_Symmetry_MaxMin	1	138.0400	Pass	H:361.9600	N.A	500.0	ps	RiseTimePositive: 4.053ns FallTimePositive:4.009ns RiseTimeNegative: 4.021ns FallTimeNegative:4.147ns
COMMENTS								

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Overshoot (Pos)

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
Overshoot_Pos	1	0.0246	Pass	H:4.9754	N.A	5.0	%	MeanVoltage: 0.999V OvershootVoltage: 0.999V

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Overshoot_Pos	1	0.0246	Pass	H:4.9754	N.A	5.0	%	BaseLineVoltage: 0.378mV
COMMENTS								

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Overshoot (Neg)

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
Overshoot_Neg	1	0.3658	Pass	H:4.6342	N.A	5.0	%	MeanVoltage: -1.00V OvershootVoltage: -1.01V BaseLineVoltage: -9.09mV
COMMENTS								

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Differential Output Voltage (Pos)

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
Differential_Output_Voltage_Pos	1	0.9978	Pass	L:0.0478 H:0.0522	0.95	1.05	V	MeanVoltage: 0.999V BaseLineVoltage: 0.761mV
COMMENTS								

Back to Summary Table

Differential Output Voltage (Neg)

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
Differential_Output_Voltage_Neg	1	-0.9955	Pass	L:0.0545 H:0.0455	-1.05	-0.95	V	MeanVoltage: -1.00V BaseLineVoltage: -6.55mV
COMMENTS								

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Amplitude Symmetry

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
Amplitude_Symmetry	1	1.0030	Pass	L:0.0230 H:0.0170	0.98	1.02		MeanVoltagePos : 0.998V MeanVoltageNeg: -1.0V BaseLineVoltagePos: 1.7mV BaseLineVoltageNeg: -7.89mV
COMMENTS								

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Jitter (Pos)

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
Jitter Pos	1	1.1900	Pass	H:0.2100	N.A	1.4	ns	Jitter Peak-to-Peak Positive:1.190 Jitter RMS Positive:0.200 Jitter Peak-to-Peak Negative:1.160 Jitter RMS Negative:0.200
COMMENTS	Measured value is in Peak-to-Peak							

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Jitter (Neg)

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
Jitter Neg	1	1.1300	Pass	H:0.2700	N.A	1.4	ns	Jitter Peak-to-Peak Positive:1.150 Jitter RMS Positive:0.200 Jitter Peak-to-Peak Negative:1.130 Jitter RMS Negative:0.200
COMMENTS	Measured value is in Peak-to-Peak							

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Duty Cycle Distortion

Measurement Details	Iteration	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
Duty Cycle Distortion	1	92.0700	Pass	H:407.9300	N.A	500	ps	T1:76.730 T2:43.360 T3:28.020 T4:92.070 T5:15.340 T6:48.710
COMMENTS								

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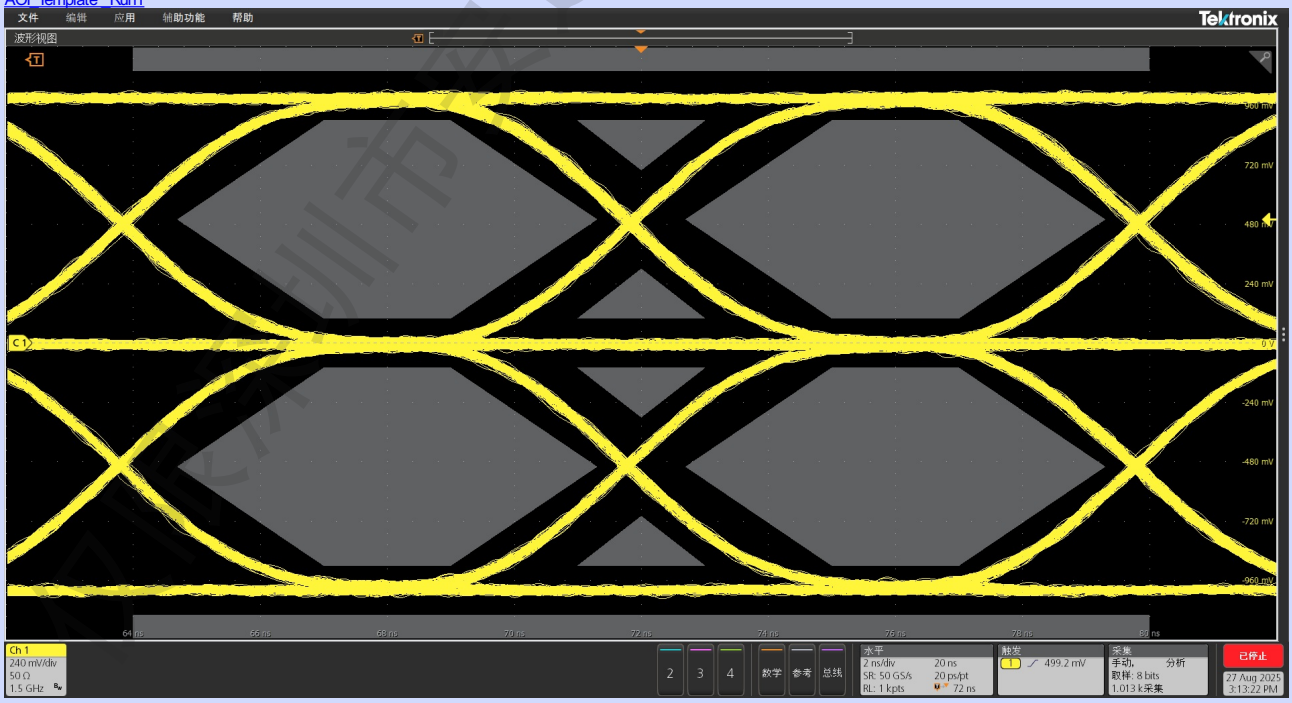
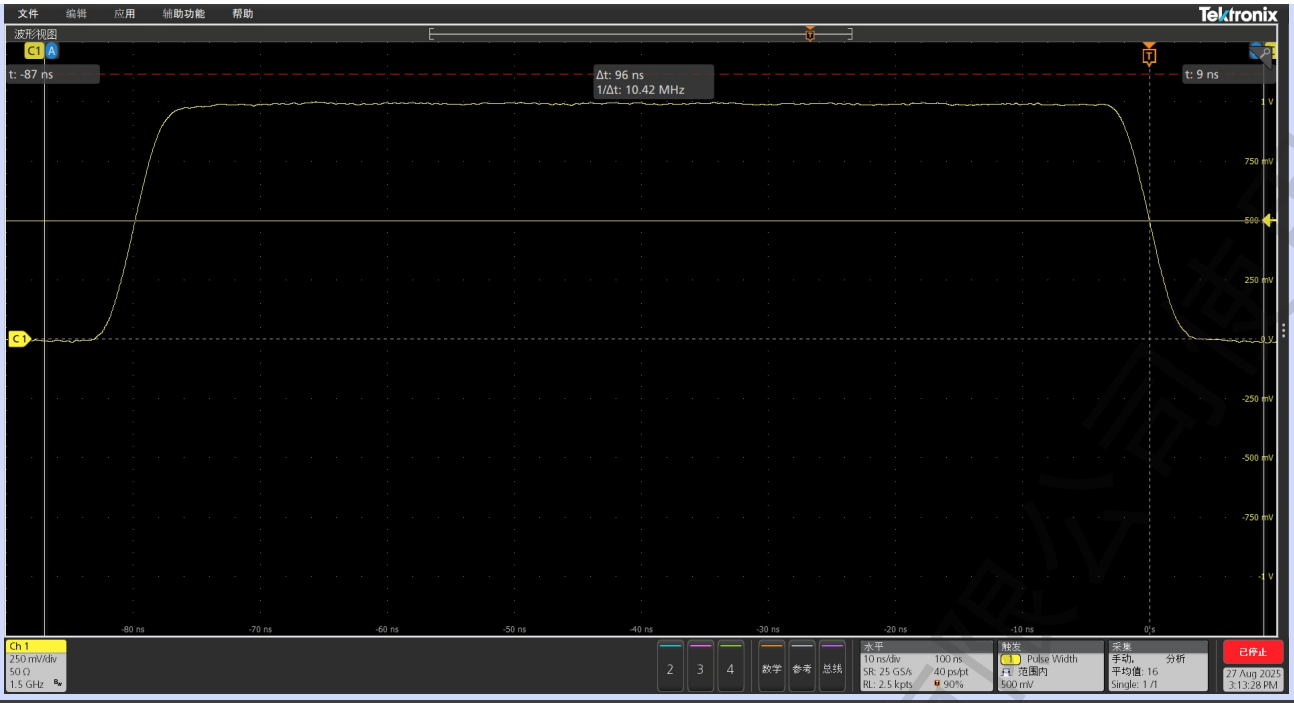
AOI Template

AOI_Template_Run1



Fall Time (Pos)

Fall_Time_Pos_Run1



Fall Time (Neg)

Fall_Time_Neg_Run1

Rise Time (Pos)

Rise_Time_Pos_Run1

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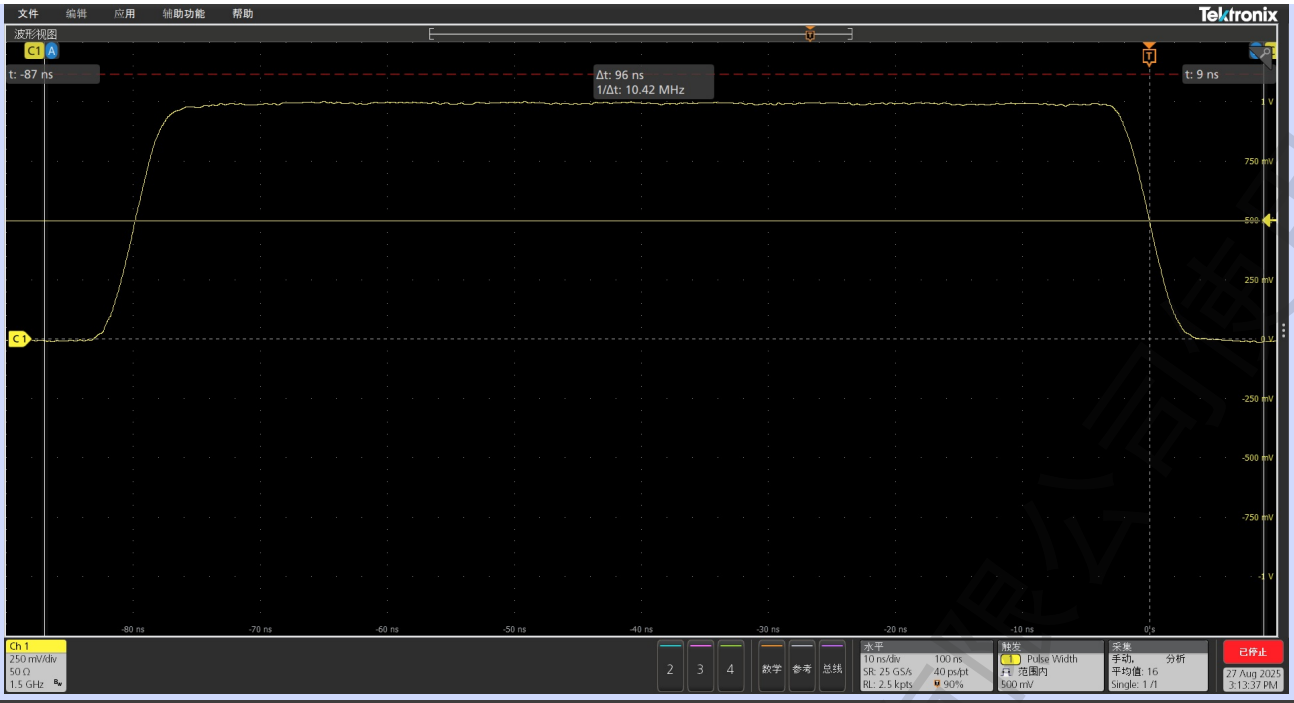

Rise Time (Neg)

Rise_Time_Neg_Run1

RF Symmetry (Pos)

RF_Symmetry_Pos_Run1

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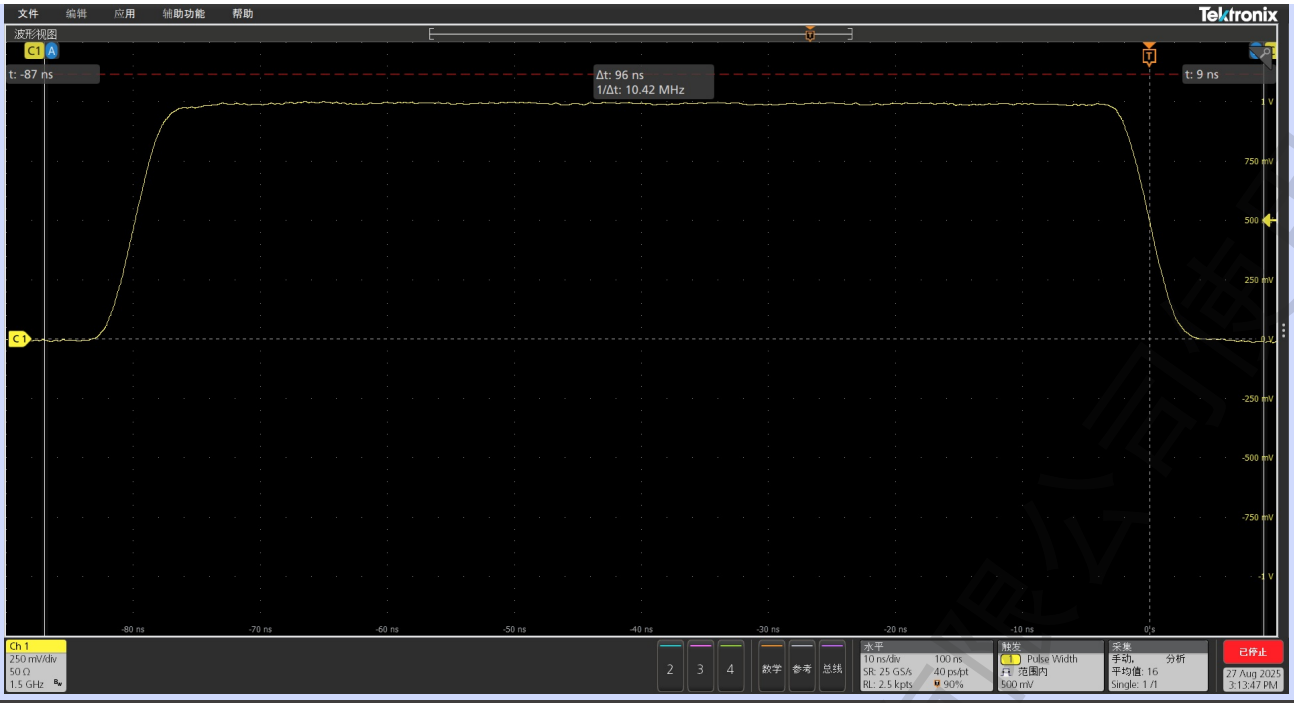

RF Symmetry (Neg)

RF_Symmetry_Neg_Run1

RF Symmetry (Max-Min)

RF_Symmetry_MaxMin_Run1

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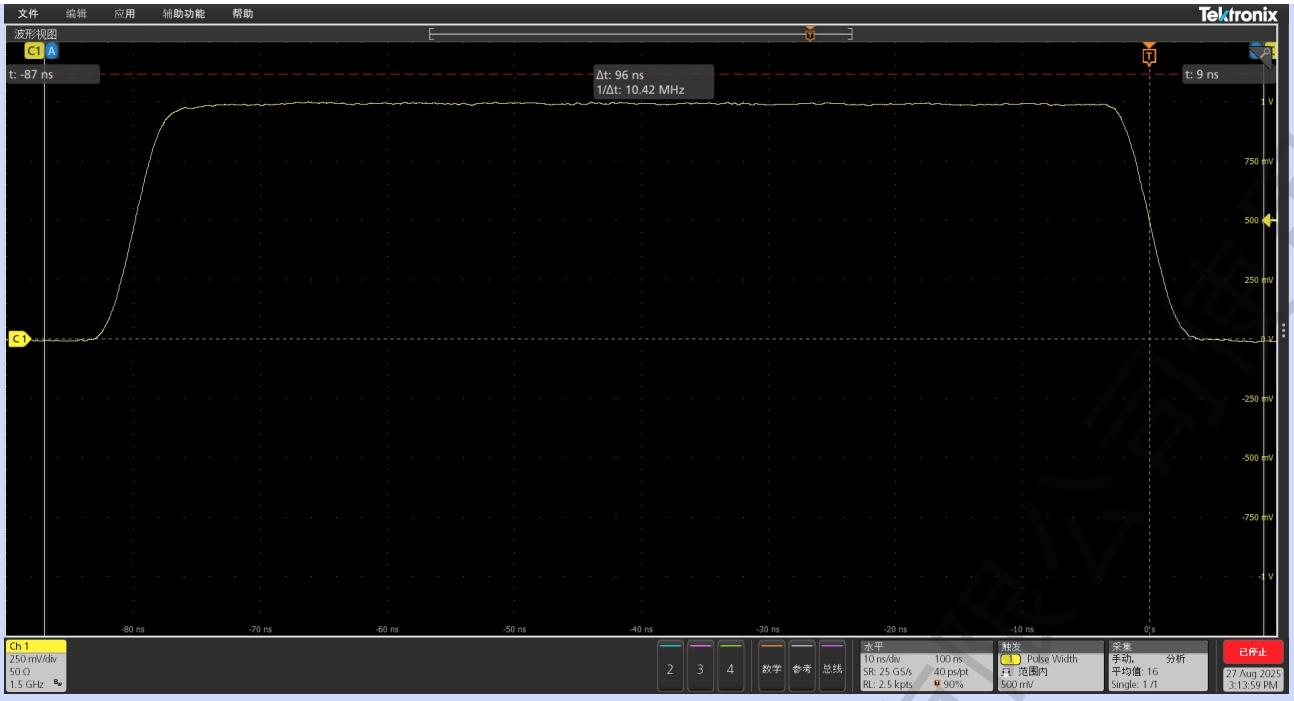
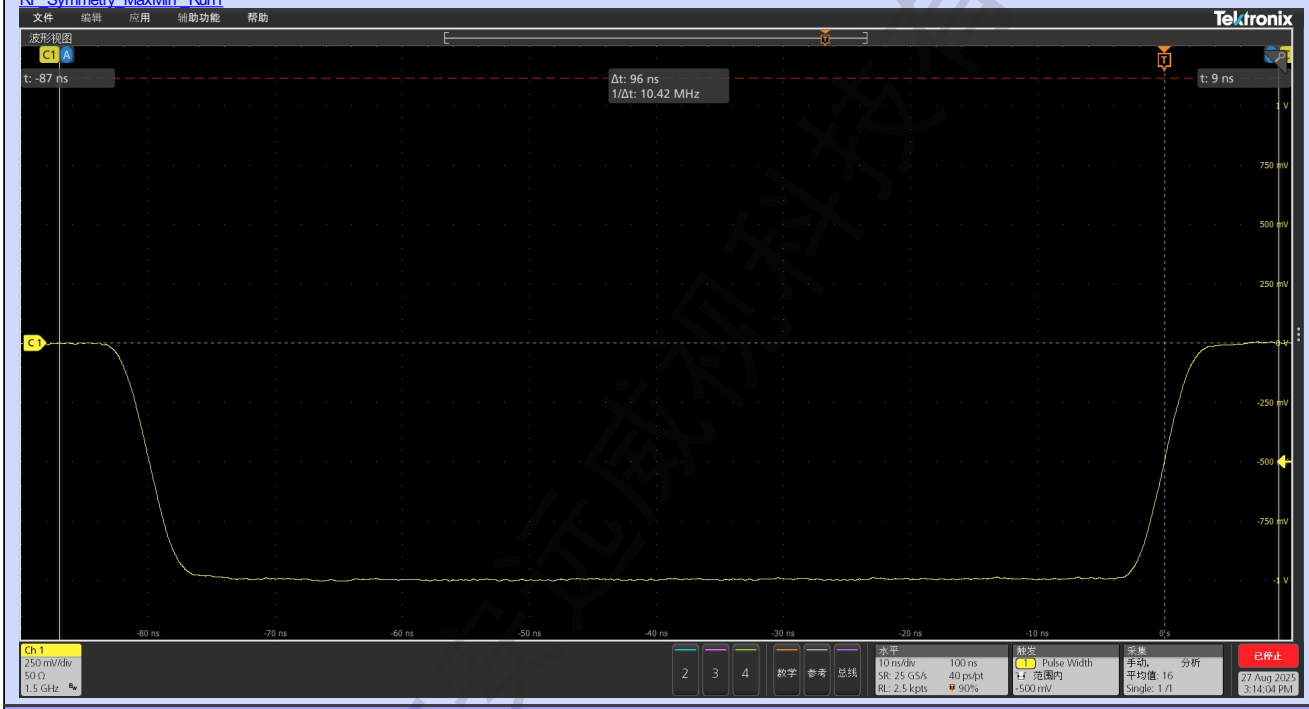


RF_Symmetry_MaxMin_Run1



Overshoot (Pos)

Overshoot_Pos_Run1

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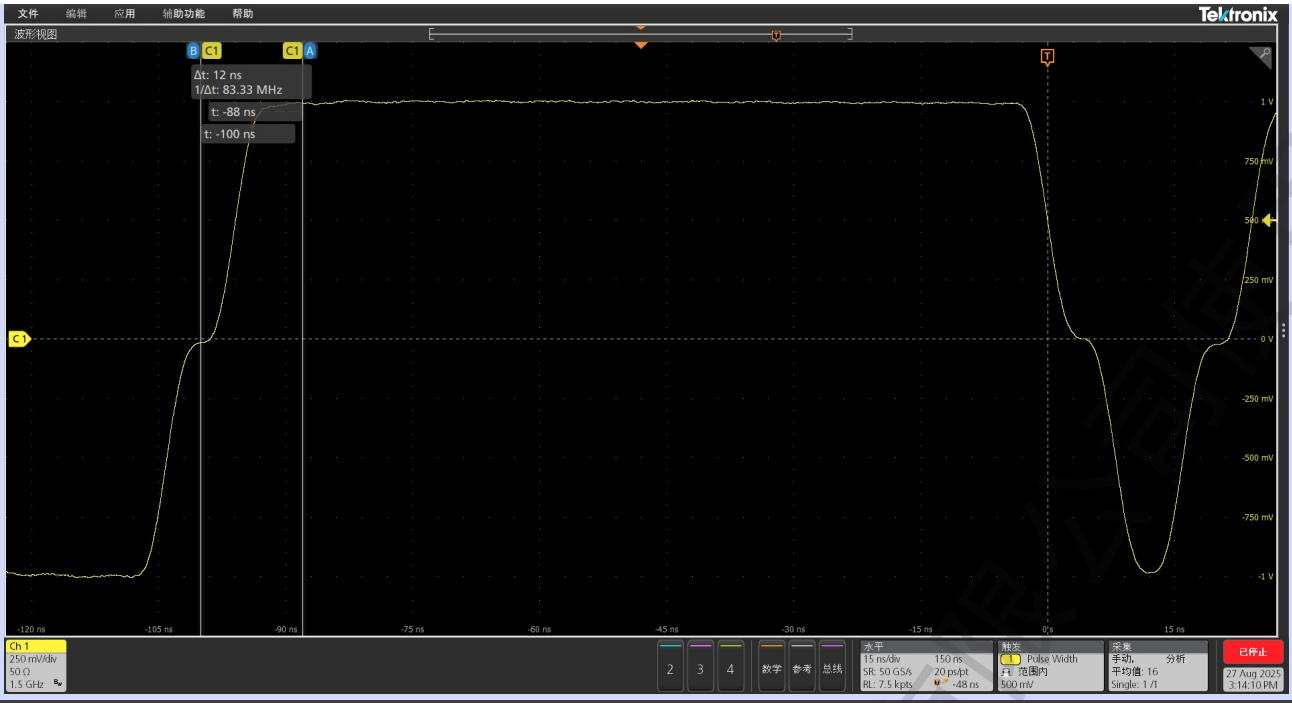
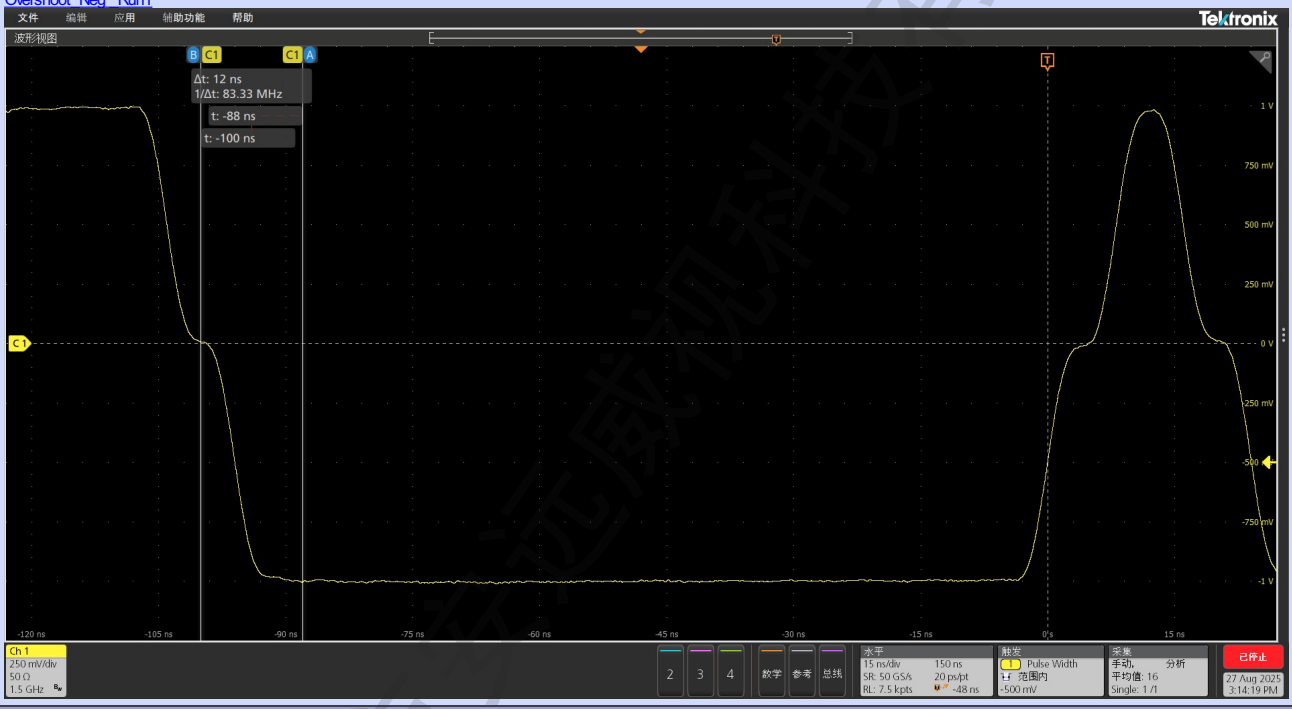


Overshoot (Neg)

Overshoot_Neg_Run1



Differential Output Voltage (Pos)

Differential_Output_Voltage_Pos_Run1

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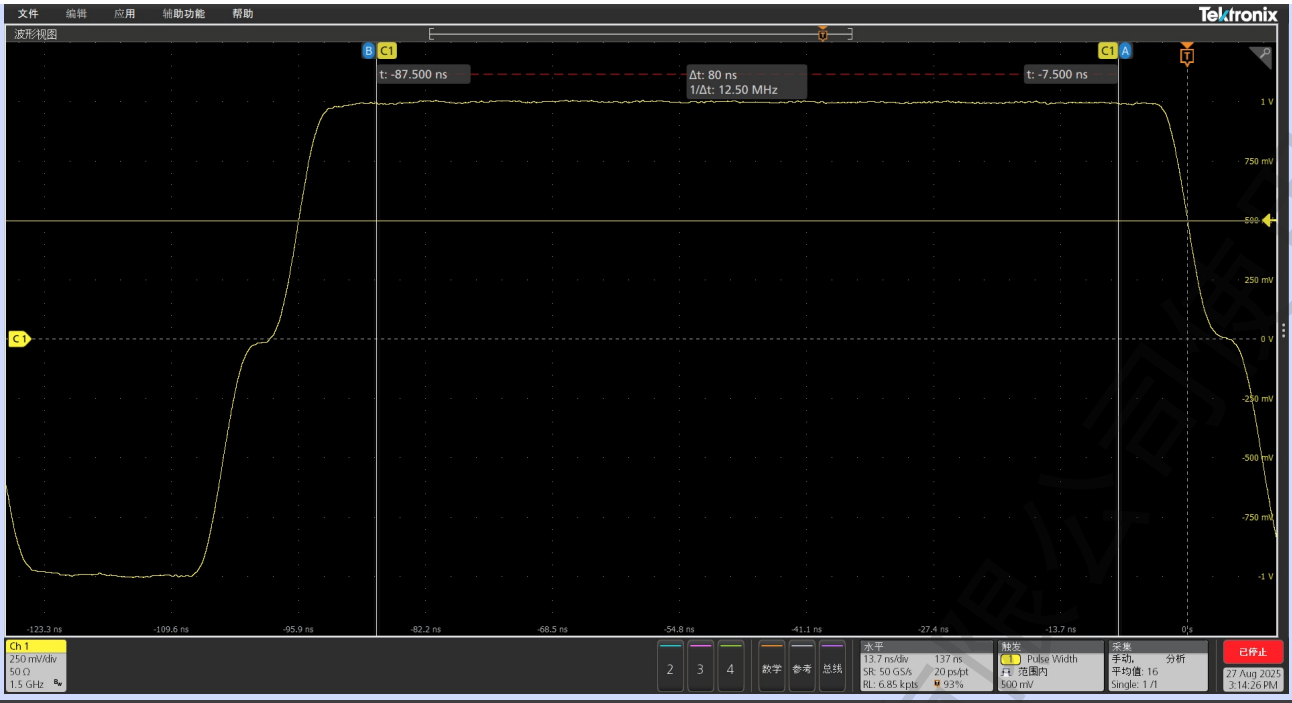
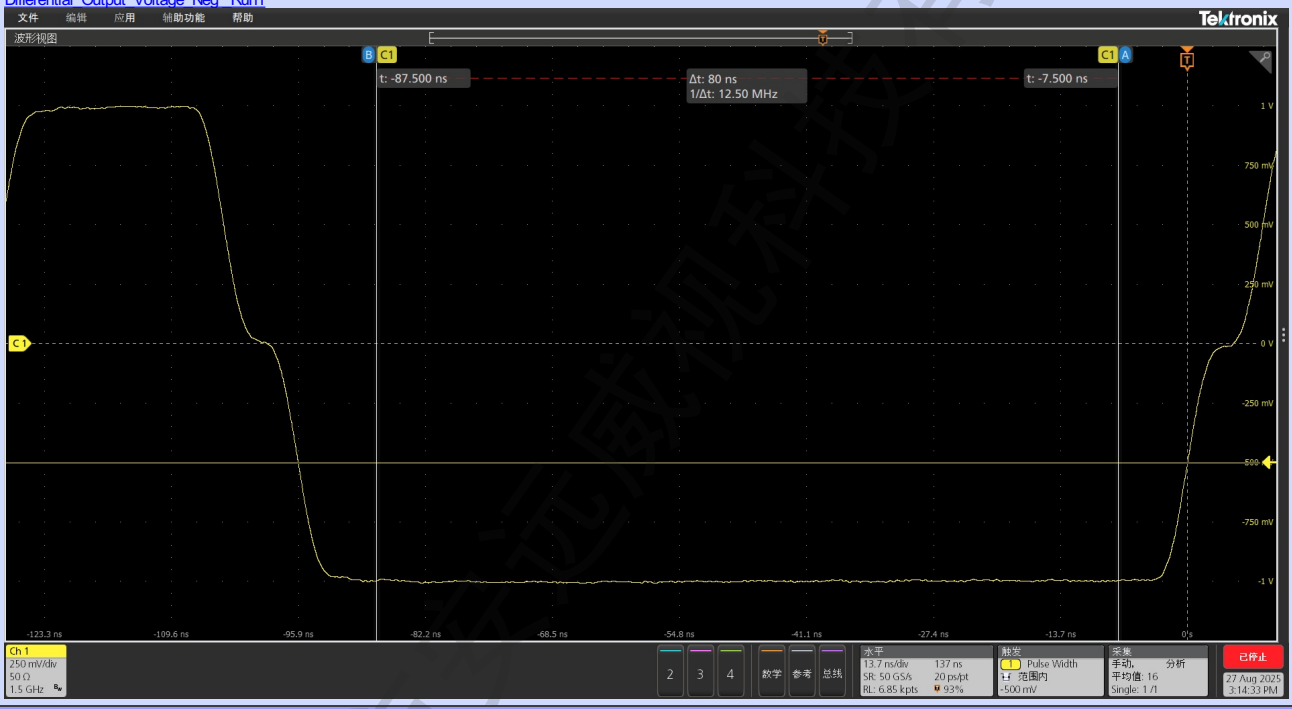


Differential Output Voltage (Neg)

Differential_Output_Voltage_Neg_Run1



Amplitude Symmetry

Amplitude_Symmetry_Run1

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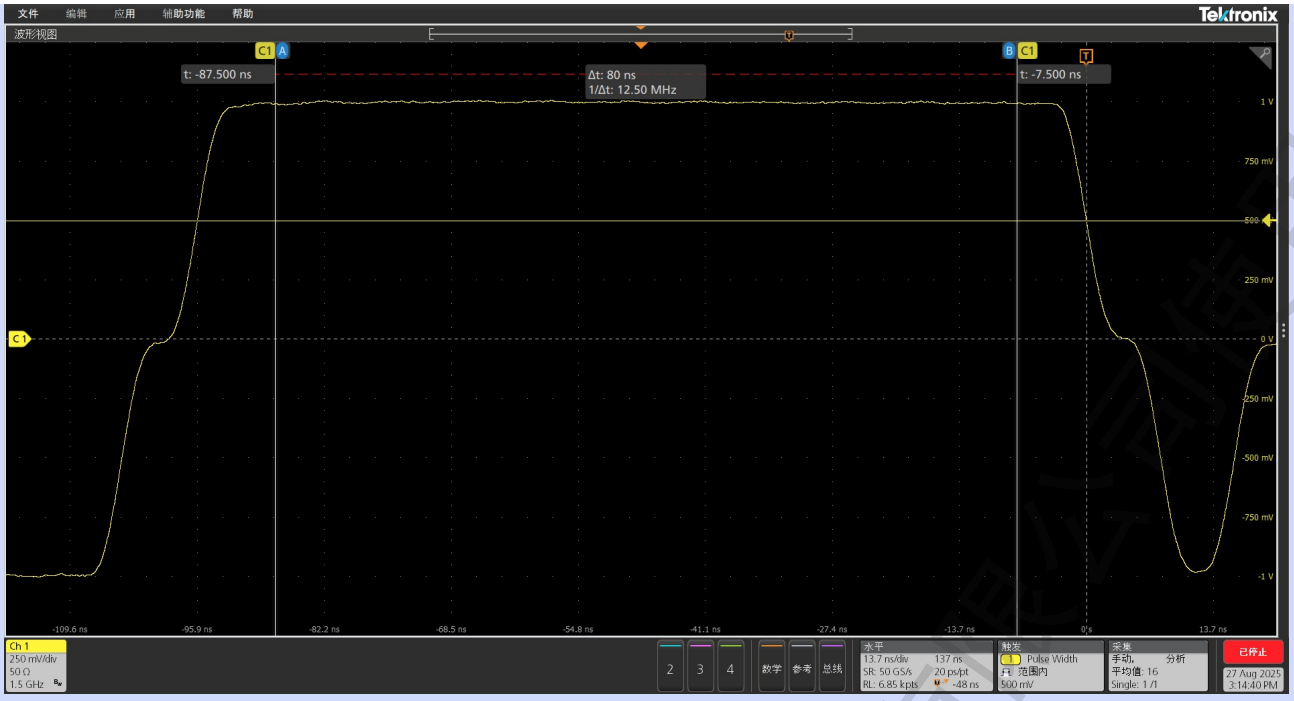
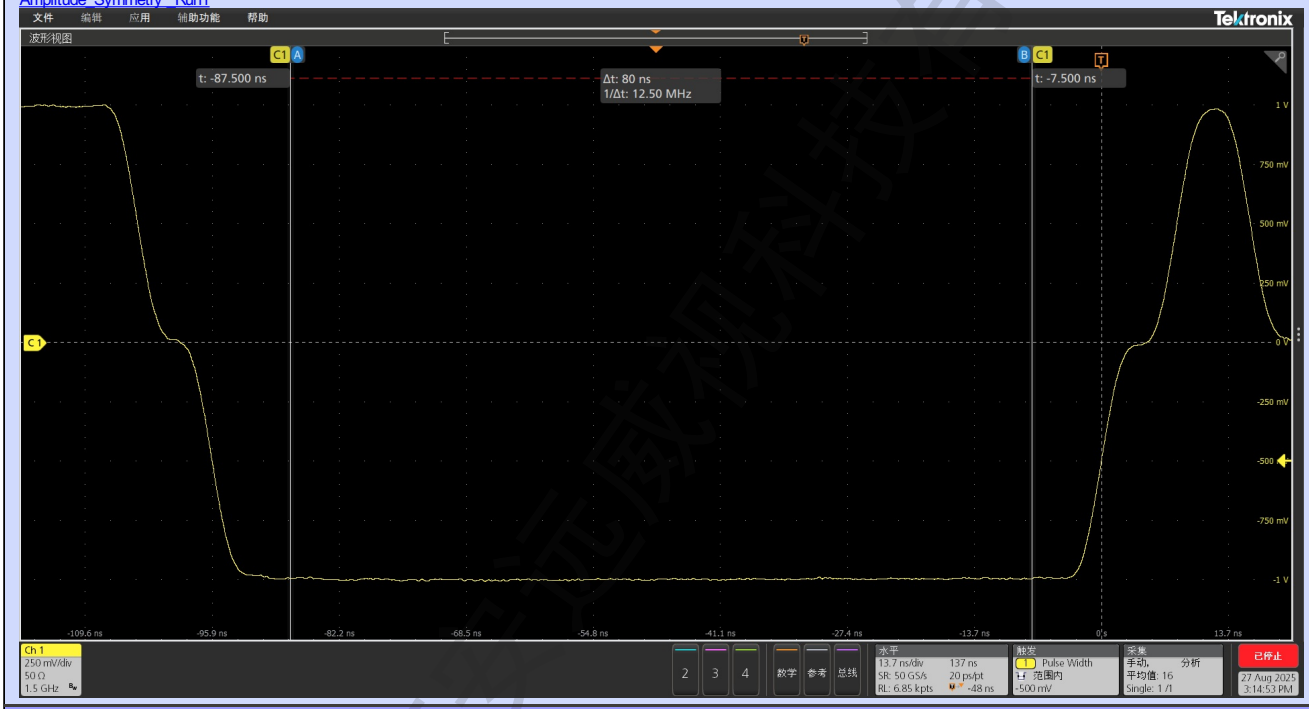


Amplitude_Symmetry_Run1



Jitter (Pos)

Jitter Pos_Run1

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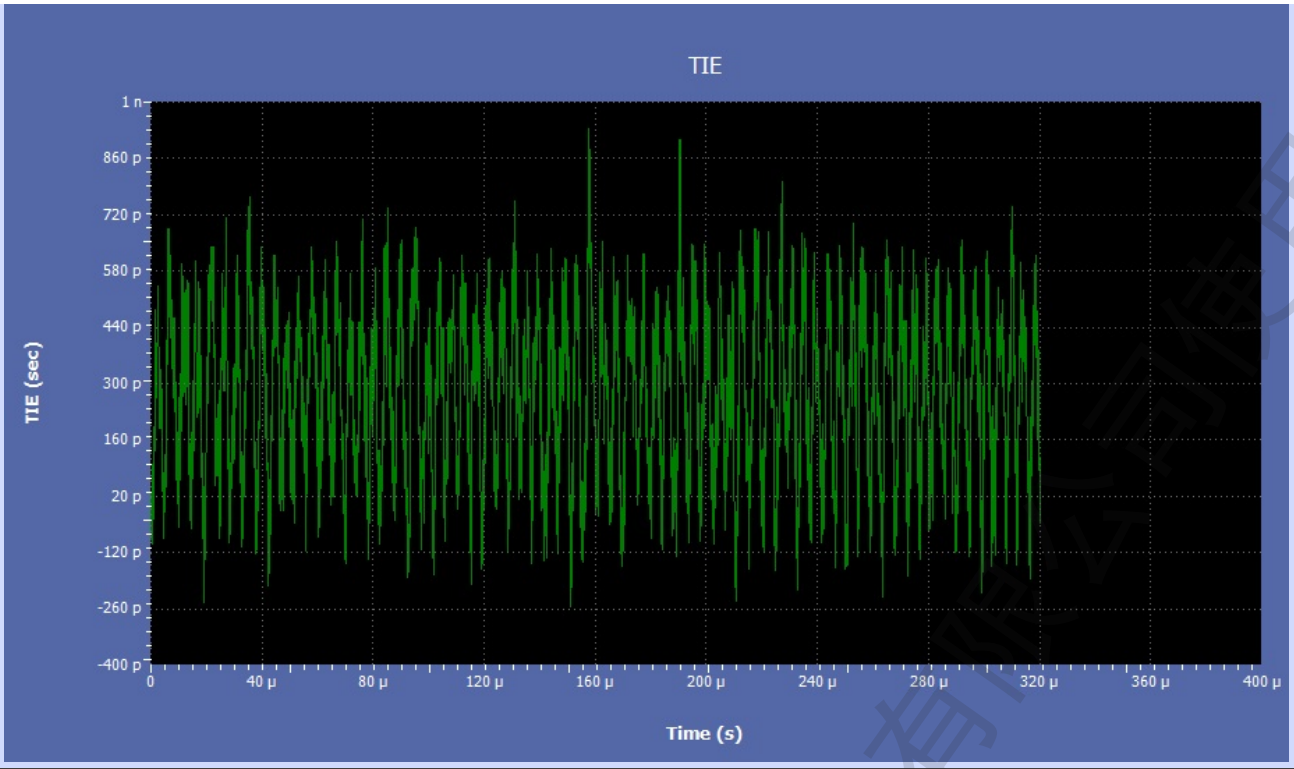
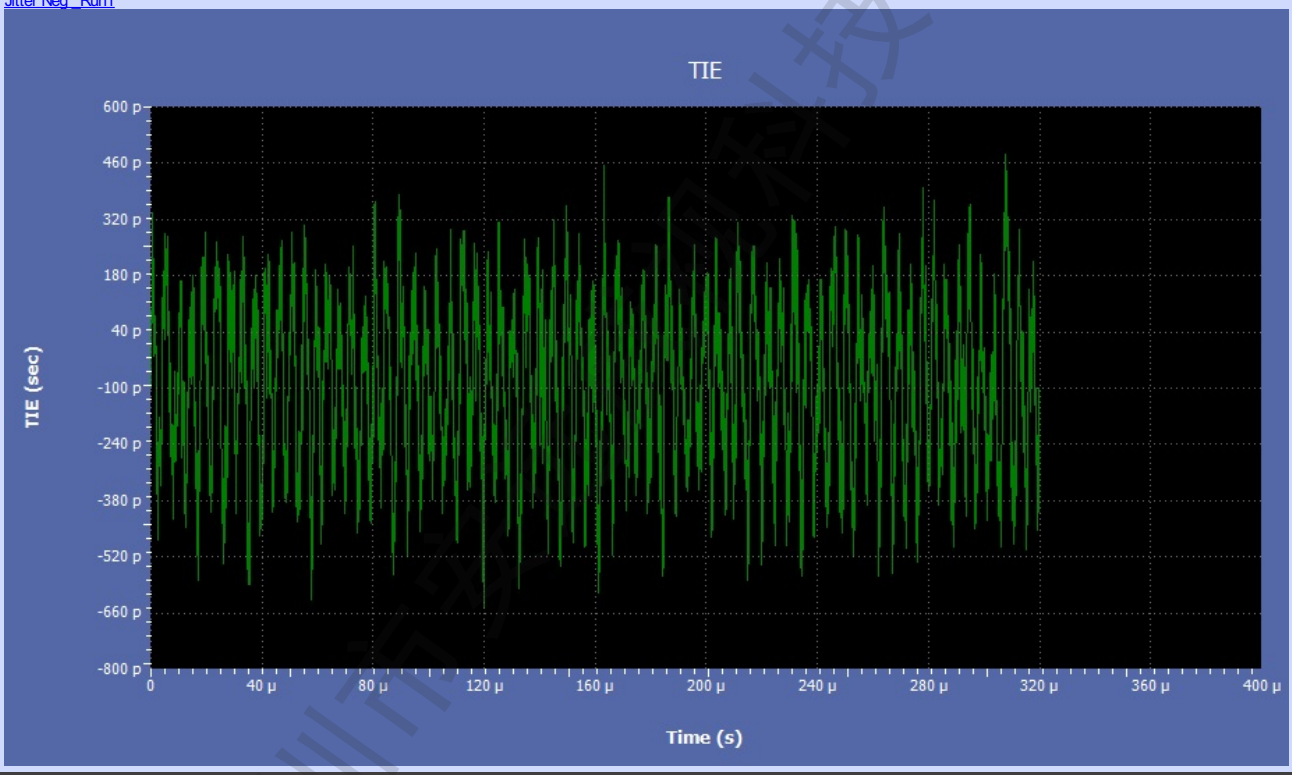


Jitter (Neg)

Jitter Neg_Run1



Duty Cycle Distortion

Duty Cycle Distortion_Run1

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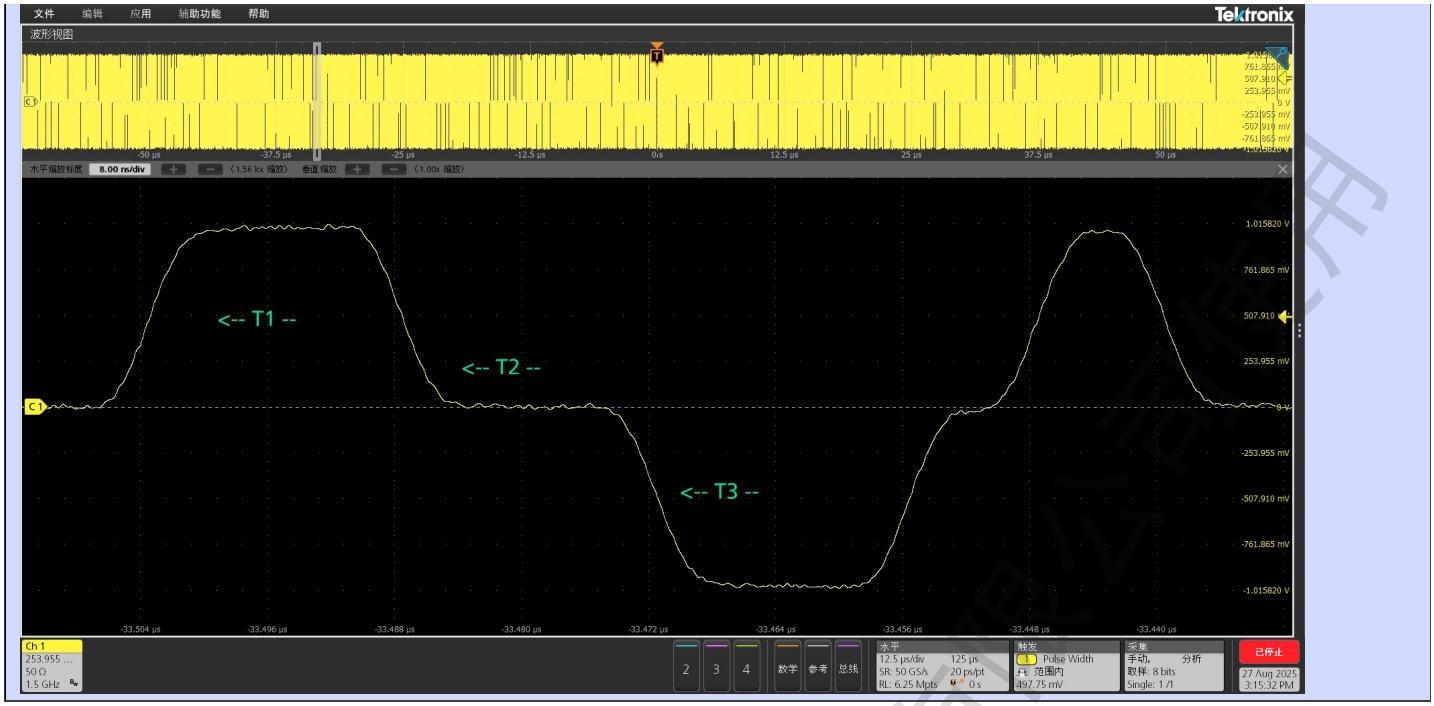

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