

USB2 Test Report

Overall result: Pass

DUT: dummy
Comment:
Time of session start: 11/10/2023 13:49:13
Operator: test user
Temperature: 25° C
Standard in use: USB2

Session ID: 108, Continuation #: 1:

Time of run: 2023/11/10 13:49:14
Configuration in use: Full Speed Device - All Tests (Copy)
Limits in use: USB Limits
Oscilloscope Name: LCRY0427N50357 Model: SDA816ZI
Oscilloscope Serial #: LCRY0427N50357
Computer: LCRY0427N50357
Oscilloscope firmware version: 10.3.0.2 (Build 372273)
QualiPHY core version: 10.3.0.3 (Build 369776)

QualiPHY script version: 10.3.0.3
Stylesheet version: 1.2.0.8
PassFailFromUSBIFScript: Yes
RecordMoreScreens: Yes
StartingPortNumber: 1
USBET script version: 2.20.00

Summary Table

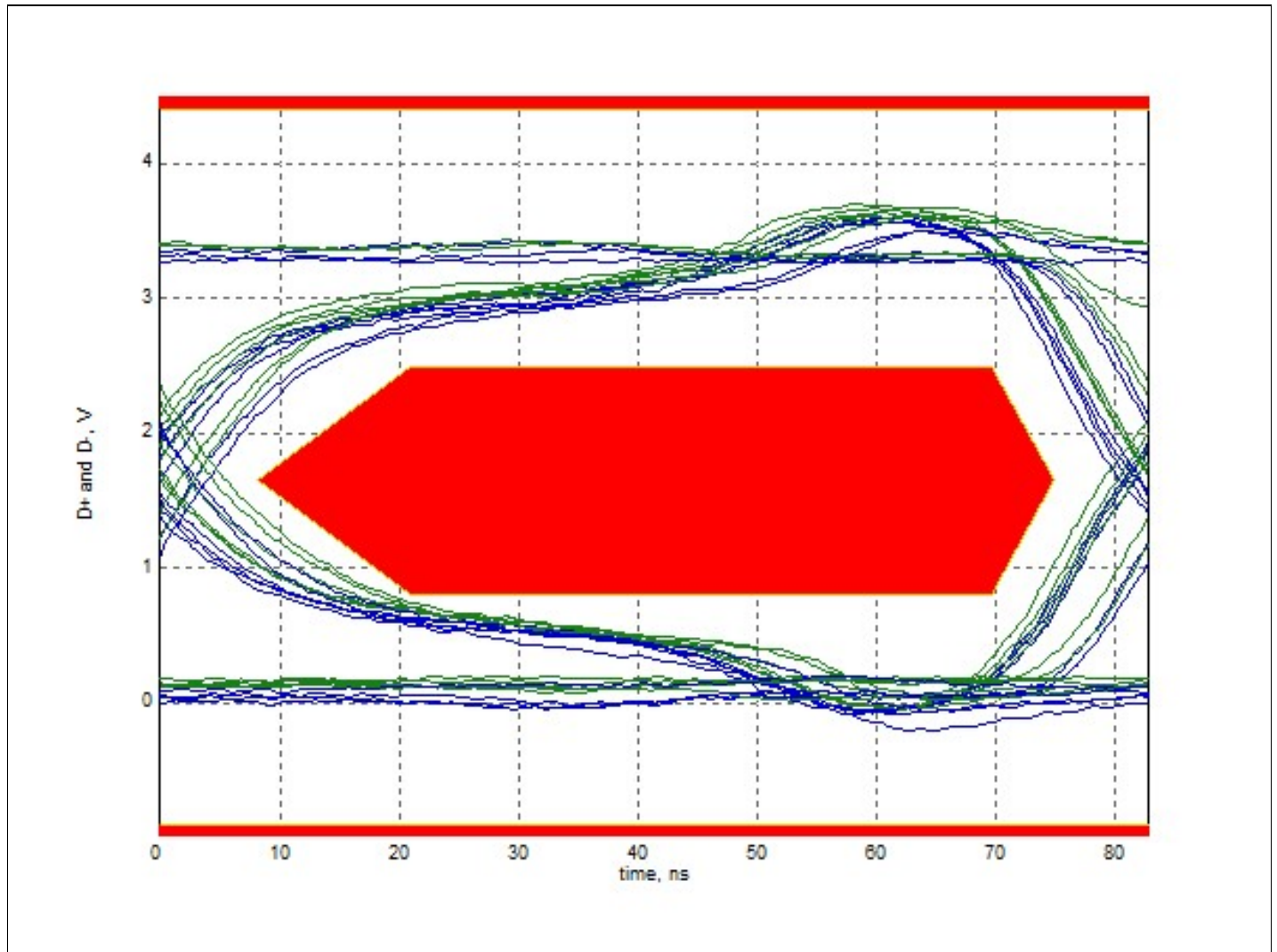
[Hide Table]

Pass	#	Test	Measurement	Current Value	Test Criteria
✓	1	B.6	Signal Quality Overall Result	pass	matchAnyIgnoreCase
i	1	B.6	Signal Rate	12.029000 Mbits	Informational Only
i	1	B.6	Max Consecutive Jitter	3.68908 ns	Informational Only
i	1	B.6	Min Consecutive Jitter	-2.37136 ns	Informational Only
i	1	B.6	Mean Consecutive Jitter	1.98045 ns	Informational Only
i	1	B.6	Max JK Jitter	3.53207 ns	Informational Only
i	1	B.6	Min JK Jitter	-4.09846 ns	Informational Only
i	1	B.6	RMS JK Jitter	3.14700 ns	Informational Only
i	1	B.6	Max KJ Jitter	-252.16 ps	Informational Only
i	1	B.6	Min KJ Jitter	-4.01773 ns	Informational Only
i	1	B.6	RMS KJ Jitter	2.34677 ns	Informational Only
i	1	B.6	Rising Edge Rate	122.620 MV/s	Informational Only
i	1	B.6	Rise Time	21.53 ns	Informational Only
i	1	B.6	Falling Edge Rate	88.350 MV/s	Informational Only
i	1	B.6	Fall Time	29.88 ns	Informational Only
i	1	B.6	Monotonic Edge	0 mV	Informational Only
i	1	B.6	Max Crossover Voltage	1.81 V	Informational Only
i	1	B.6	Min Crossover Voltage	1.69 V	Informational Only
i	1	B.6	Mean Crossover Voltage	1.75 V	Informational Only
✓	1	B.4	Inrush Result	pass	matchAnyIgnoreCase
i	1	B.4	Inrush Charge	140.56 uC	Informational Only
✓	1	F	VBUS Voltage Before Enumeration	1 mV	x <= 400 mV
✓	1	F	D+ Voltage Before Enumeration	0 mV	x <= 400 mV
✓	1	F	D- Voltage Before Enumeration	0 mV	x <= 400 mV
✓	1	F	VBUS Voltage After Enumeration	2 mV	x <= 400 mV
✓	1	F	D+ Voltage After Enumeration	0 mV	x <= 400 mV
✓	1	F	D- Voltage After Enumeration	0 mV	x <= 400 mV

Details

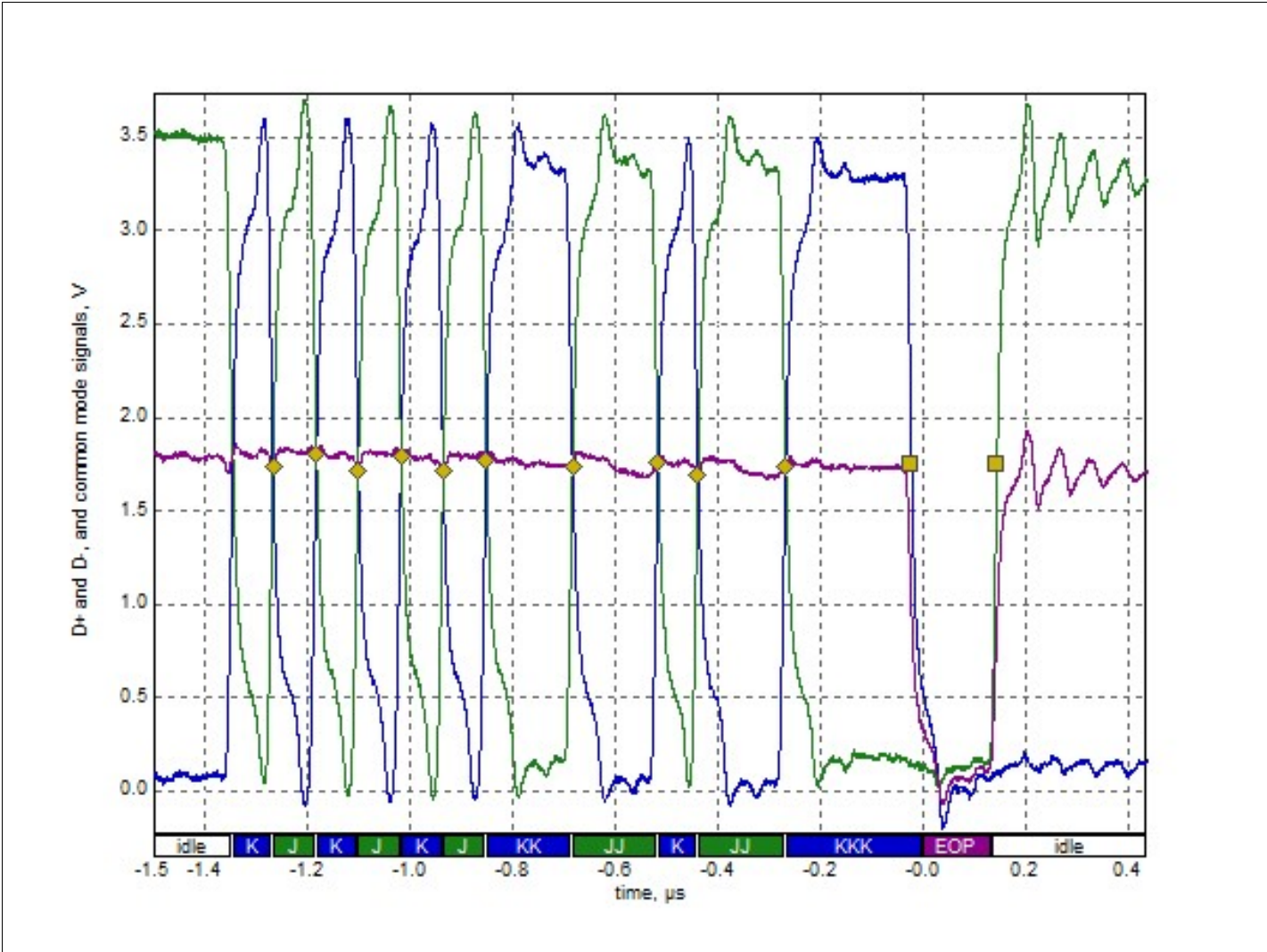
*** Device Upstream Tests ***

B.6 - FS Upstream Signal Quality




Upstream Eye Diagram, Path on Scope: D:\Applications\USB2\Results\FSUpstreamSQ29Eye.png

Timestamp: 11/10/2023 13:53:08




Scope Capture Data Plot, Path on Scope: D:\Applications\USB2\Results\FSUpstreamSQ29Plot.png
 Timestamp: 11/10/2023 13:53:08


USB-IF Report - Click below to view[click here to view](#)[\[Up\]](#)

	Measurement: Signal Quality Overall Result		
	Current Value: pass	Test Criteria: matchAnyIgnoreCase	
	Timestamp: 11/10/2023 13:53:08	Limit Name: PassMatchStrict	


[\[Up\]](#)

	Measurement: Signal Rate		
	Current Value: 12.029000 Mbits	Test Criteria: Informational Only	
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlyBits	


[\[Up\]](#)

	Measurement: Max Consecutive Jitter		
	Current Value: 3.68908 ns	Test Criteria: Informational Only	
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlypS	


[\[Up\]](#)

	Measurement: Min Consecutive Jitter		
	Current Value: -2.37136 ns	Test Criteria: Informational Only	
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlypS	


[\[Up\]](#)

	Measurement: Mean Consecutive Jitter		
	Current Value: 1.98045 ns	Test Criteria: Informational Only	
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlypS	


[\[Up\]](#)

	Measurement: Max JK Jitter		
	Current Value: 3.53207 ns	Test Criteria: Informational Only	
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlypS	


[\[Up\]](#)

	Measurement: Min JK Jitter		
	Current Value: -4.09846 ns	Test Criteria: Informational Only	
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlypS	


[\[Up\]](#)

	Measurement: RMS JK Jitter		
	Current Value: 3.14700 ns	Test Criteria: Informational Only	
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlypS	


[\[Up\]](#)

	Measurement: Max KJ Jitter		
	Current Value: -252.16 ps	Test Criteria: Informational Only	
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlypS	


[\[Up\]](#)

	Measurement: Min KJ Jitter		
	Current Value: -4.01773 ns	Test Criteria: Informational Only	
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlypS	


[\[Up\]](#)

	Measurement: RMS KJ Jitter		
	Current Value: 2.34677 ns	Test Criteria: Informational Only	
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlypS	


[\[Up\]](#)

	Measurement: Rising Edge Rate	
	Current Value: 122.620 MV/s	Test Criteria: Informational Only
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlySlew


[\[Up\]](#)

	Measurement: Rise Time	
	Current Value: 21.53 ns	Test Criteria: Informational Only
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlynS


[\[Up\]](#)

	Measurement: Falling Edge Rate	
	Current Value: 88.350 MV/s	Test Criteria: Informational Only
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlySlew


[\[Up\]](#)

	Measurement: Fall Time	
	Current Value: 29.88 ns	Test Criteria: Informational Only
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlynS


[\[Up\]](#)

	Measurement: Monotonic Edge	
	Current Value: 0 mV	Test Criteria: Informational Only
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlymV


[\[Up\]](#)

	Measurement: Max Crossover Voltage	
	Current Value: 1.81 V	Test Criteria: Informational Only
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlyV

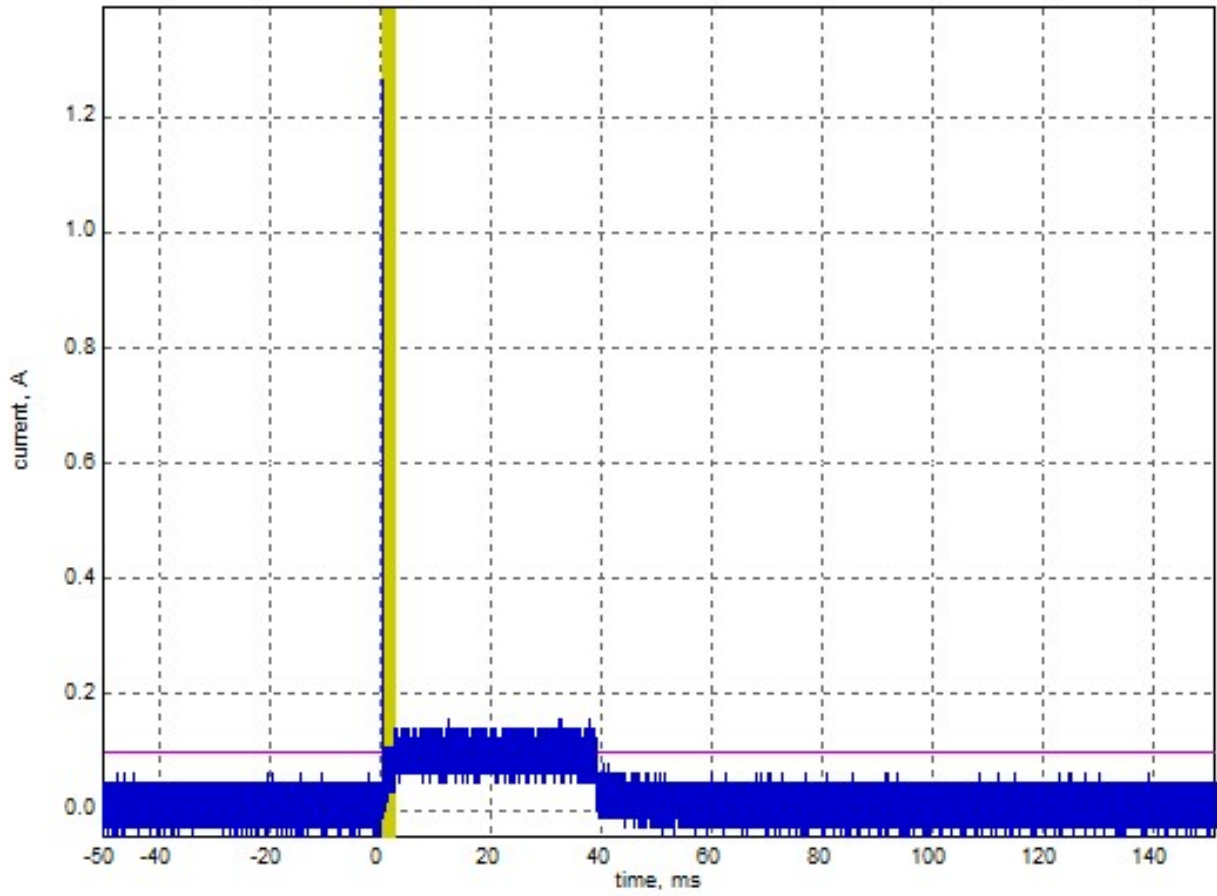
[\[Up\]](#)

	Measurement: Min Crossover Voltage	
	Current Value: 1.69 V	Test Criteria: Informational Only
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlyV

[\[Up\]](#)

	Measurement: Mean Crossover Voltage	
	Current Value: 1.75 V	Test Criteria: Informational Only
	Timestamp: 11/10/2023 13:53:08	Limit Name: InfoOnlyV

B.4 - Inrush




Scope Capture Data Plot, Path on Scope: D:\Applications\USB2\Results\Inrush22Plot.png
Timestamp: 11/10/2023 14:02:32


USB-IF Report - Click below to view

[click here to view](#)

[\[Up\]](#)

 Pass	Measurement: Inrush Result	
	Current Value: pass	Test Criteria: matchAnyIgnoreCase
	Timestamp: 11/10/2023 14:02:32	Limit Name: PassMatchStrict


[\[Up\]](#)

 i	Measurement: Inrush Charge	
	Current Value: 140.56 uC	Test Criteria: Informational Only
	Timestamp: 11/10/2023 14:02:32	Limit Name: InfoOnlyC


F - Back-Voltage

Test F - Back-Voltage


[\[Up\]](#)

 Pass	Measurement: VBUS Voltage Before Enumeration	
	Current Value: 1 mV	Test Criteria: x <= 400 mV
	Timestamp: 11/10/2023 14:03:49	Limit Name: BackVoltage


[\[Up\]](#)

 Pass	Measurement: D+ Voltage Before Enumeration	
	Current Value: 0 mV	Test Criteria: x <= 400 mV
	Timestamp: 11/10/2023 14:03:49	Limit Name: BackVoltage


[\[Up\]](#)

 Pass	Measurement: D- Voltage Before Enumeration	
	Current Value: 0 mV	Test Criteria: x <= 400 mV
	Timestamp: 11/10/2023 14:03:49	Limit Name: BackVoltage


[\[Up\]](#)

 Pass	Measurement: VBUS Voltage After Enumeration	
	Current Value: 2 mV	Test Criteria: x <= 400 mV
	Timestamp: 11/10/2023 14:04:55	Limit Name: BackVoltage

[\[Up\]](#)

 Pass	Measurement: D+ Voltage After Enumeration	
	Current Value: 0 mV	Test Criteria: x <= 400 mV
	Timestamp: 11/10/2023 14:04:55	Limit Name: BackVoltage

[\[Up\]](#)

 Pass	Measurement: D- Voltage After Enumeration	
	Current Value: 0 mV	Test Criteria: x <= 400 mV
	Timestamp: 11/10/2023 14:04:55	Limit Name: BackVoltage

--- End of report ---