Generated by Viavi 5800-100G

User Info	
Customer Name	--
Technician ID	--
Test Location	--
Work Order	--
Comments/Notes	--
Instrument	MTS5800-100G
Serial Number	WMSE0163000017
SW Version	29.0.1

Results: Summary / Status	
Summary	ALL SUMMARY RESULTS OK

Results: Summary / SLA / KPI	
Throughput, Current, Rx Mbps, L1	100,000.0
Throughput, Current, Tx Mbps, L1	100,000.0
Throughput, Current, Rx Mbps, L2	96,240.6
Throughput, Current, Tx Mbps, L2	96,240.6
Packet Jitter - FDV (us), Average	Unavailable
Packet Jitter - FDV (us), Max Average	Unavailable
Packet Jitter - FDV (us), Peak	Unavailable
Packet Jitter - FDV (us), Instantaneous	Unavailable

Results: Interface / Signal	
Signal Losses	0
Signal Loss Seconds	0
Sync Loss Seconds	0
Link Loss Seconds	0
QSFP Module State	Ready
QSFP Optical Rx Overload	OFF

QSFP Optical Rx Level (dBm)	2.6
QSFP Optical Tx Level (dBm)	7.4
QSFP Laser Bias Current (mA)	161.314
QSFP Supply Voltage (V)	3.292
CFP4 State	Absent
Freq Measurement Reference	Internal
Rx Frequency (Hz)	103,125,000,000
Rx Freq Deviation (ppm)	0.0
Rx Freq Max Deviation (ppm)	0.0
Tx Clock Source	Internal
Tx Frequency (Hz)	103,125,000,000
Tx Freq Deviation (ppm)	0.0
Tx Freq Max Deviation (ppm)	0.0
Local Fault Seconds	0
Remote Fault Seconds	0

Results: Interface / Lambda	
QSFP Per Lane Signal Present, Lambda #1	ON
QSFP Per Lane Signal Present, Lambda #2	ON
QSFP Per Lane Signal Present, Lambda #3	ON
QSFP Per Lane Signal Present, Lambda #4	ON
QSFP Rx Level per Lambda (dBm), Lambda #1	-3.8
QSFP Rx Level per Lambda (dBm), Lambda #2	-3.0
QSFP Rx Level per Lambda (dBm), Lambda #3	-3.5
QSFP Rx Level per Lambda (dBm), Lambda #4	-3.6
QSFP Rx Level per Lambda (dBm), Sum	2.6
QSFP Tx Level per Lambda (dBm), Lambda #1	2.0
QSFP Tx Level per Lambda (dBm), Lambda #2	1.2
QSFP Tx Level per Lambda (dBm), Lambda #3	0.7
QSFP Tx Level per Lambda (dBm), Lambda #4	1.5
QSFP Tx Level per Lambda (dBm), Sum	7.4

QSFP Laser Bias Current per Lambda (mA), Lambda #1	39.780
QSFP Laser Bias Current per Lambda (mA), Lambda #2	41.536
QSFP Laser Bias Current per Lambda (mA), Lambda #3	36.704
QSFP Laser Bias Current per Lambda (mA), Lambda #4	43.294
QSFP Laser Bias Current per Lambda (mA), Sum	161.314

Results: Ethernet / L2 Link Stats	
Total Util %, Average	100.000
Total Util %, Current	100.000
Total Util %, Minimum	100.000
Total Util %, Peak	100.000
Current Util %, Unicast	100.000
Current Util %, Multicast	0.000
Current Util %, Broadcast	0.000
Rx Pause Length (ms), Current	Unavailable
Rx Pause Length (ms), Minimum	Unavailable
Rx Pause Length (ms), Maximum	Unavailable
Frame Rate, Average	23,496,240.60
Frame Rate, Current	23,496,241
Frame Rate, Minimum	23,496,240
Frame Rate, Peak	23,496,241
Frame Size, Average	512
Frame Size, Minimum	512
Frame Size, Maximum	512
Rx Mbps, Cur L1	100,000.0
Rx Mbps, Cur L2	96,240.6
Tx Mbps, Cur L1	100,000.0
Tx Mbps, Cur L2	96,240.6
Rx Mbps, L1, Average	100,000.0
Rx Mbps, Cur L1	100,000.0
Rx Mbps, L1, Minimum	100,000.0

Rx Mbps, L1, Maximum	100,000.0
Rx Mbps, L2, Average	96,240.6
Rx Mbps, Cur L2	96,240.6
Rx Mbps, L2, Minimum	96,240.6
Rx Mbps, L2, Maximum	96,240.6
Packet Jitter (us), Average	Unavailable
Packet Jitter (us), Max Average	Unavailable
Packet Jitter (us), Peak	Unavailable
Packet Jitter (us), Instantaneous	Unavailable
VLAN ID	Unavailable
VLAN User Priority	Unavailable
SVLAN ID	Unavailable
SVLAN User Pri	Unavailable
SVLAN Frame DEI	Unavailable
SVLAN ID, PRI, DEI	Unavailable
Peak Interframe Gap (us)	> 21,000,000

Results: Ethernet / L2 Link Counts	
Received Frames	16,682,330,827
Transmitted Frames	16,682,330,827
Pause Frames	0
Rx VLAN Frames	0
Rx Q-in-Q Frames	0
Unicast Frames	16,682,330,827
Multicast Frames	0
Broadcast Frames	0
Rx Frame Bytes	8,541,353,383,424
Tx Frame Bytes	8,541,353,383,424
Span Tree Frames	0
64 Byte Frames	0
65-127 Byte Frames	0

128-255 Byte Frames	0
256-511 Byte Frames	0
512-1023 Byte Frames	16,682,330,827
1024-<Jumbo Frames	0
Jumbo Frames	0

Results: Ethernet / L2 Filter Stats	
Total Util %, Average	100.000
Total Util %, Current	100.000
Total Util %, Minimum	100.000
Total Util %, Peak	100.000
Frame Rate, Average	23,496,240.60
Frame Rate, Current	23,496,241
Frame Rate, Minimum	23,496,240
Frame Rate, Peak	23,496,241
Frame Size, Average	512
Frame Size, Minimum	512
Frame Size, Maximum	512
Rx Mbps, Cur L1	100,000.0
Rx Mbps, Cur L2	96,240.6
Packet Jitter (us), Average	Unavailable
Packet Jitter (us), Max Average	Unavailable
Packet Jitter (us), Peak	Unavailable
Packet Jitter (us), Instantaneous	Unavailable
VLAN ID	Unavailable
VLAN User Priority	Unavailable
SVLAN ID	Unavailable
SVLAN User Priority	Unavailable
SVLAN Frame DEI	Unavailable
SVLAN ID, PRI, DEI	Unavailable

Results: Ethernet / L2 Filter Counts	
Valid Rx Frames	16,682,330,827
Rx VLAN Frames	0
Rx Q-in-Q Frames	0
Unicast Frames	16,682,330,827
Multicast Frames	0
Broadcast Frames	0
Span Tree Frames	0
Rx Frame Bytes	8,541,353,383,424
64 Byte Frames	0
65-127 Byte Frames	0
128-255 Byte Frames	0
256-511 Byte Frames	0
512-1023 Byte Frames	16,682,330,827
1024-<Jumbo Frames	0
Jumbo Frames	0

Results: Ethernet / BERT Stats	
Pattern Losses	0
Pattern Loss Seconds	0
Bit Error Rate	0.00E+00
Bit Errors	0
Bit Errored Seconds	0
Bit Error-Free Seconds	710
Bit Error-Free Seconds, %	100

Results: Ethernet / PCS Stats	
Invalid Alignment Markers	0
Invalid Alignment Marker Rate	0.00E+00
Invalid Alignment Marker Seconds	0
Alignment Marker Lock	ON

Alignment Marker Lock History	OFF
Alignment Marker Loss Seconds	0
BIP-8 AM Bit Errors	0
BIP-8 AM Bit Error Rate	0.00E+00
BIP-8 AM Bit Error Seconds	0
BIP-8 AM Block Errors	0
BIP-8 AM Block Error Rate	0.00E+00
BIP-8 AM Block Error Seconds	0
Max Skew (Bits)	14
Cur Max Skew (Bits)	14
Max Skew (ns)	2.72
Cur Max Skew (ns)	2.72
Max Virtual Lane Skew	5
Min Virtual Lane Skew	3
Loss Of Alignment	OFF
HI BER	OFF
HI BER History	OFF
HI BER Seconds	0
PCS Invalid Blocks	0
PCS Block Errors	0
PCS Block Error Rate	0.00E+00
PCS Block Error Seconds	0

Results: Ethernet / Per Lane			
Row: 0	Virtual Lane ID: 2	Physical Lane #: 0	Skew (Bits): 1
Skew (ns): 0.19	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 1	Virtual Lane ID: 3	Physical Lane #: 0	Skew (Bits): 0
Skew (ns): 0.00	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 2	Virtual Lane ID: 4	Physical Lane #: 0	Skew (Bits): 6

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Skew (ns): 1.16	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 3	Virtual Lane ID: 0	Physical Lane #: 0	Skew (Bits): 7
Skew (ns): 1.36	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 4	Virtual Lane ID: 1	Physical Lane #: 0	Skew (Bits): 6
Skew (ns): 1.16	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 5	Virtual Lane ID: 5	Physical Lane #: 1	Skew (Bits): 14
Skew (ns): 2.72	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 6	Virtual Lane ID: 8	Physical Lane #: 1	Skew (Bits): 12
Skew (ns): 2.33	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 7	Virtual Lane ID: 9	Physical Lane #: 1	Skew (Bits): 11
Skew (ns): 2.13	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 8	Virtual Lane ID: 15	Physical Lane #: 1	Skew (Bits): 7
Skew (ns): 1.36	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 9	Virtual Lane ID: 14	Physical Lane #: 1	Skew (Bits): 7
Skew (ns): 1.36	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 10	Virtual Lane ID: 13	Physical Lane #: 2	Skew (Bits): 13
Skew (ns): 2.52	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 11	Virtual Lane ID: 12	Physical Lane #: 2	Skew (Bits): 13
Skew (ns): 2.52	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 12	Virtual Lane ID: 6	Physical Lane #: 2	Skew (Bits): 13

Skew (ns): 2.52	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 13	Virtual Lane ID: 10	Physical Lane #: 2	Skew (Bits): 2
Skew (ns): 0.39	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 14	Virtual Lane ID: 11	Physical Lane #: 2	Skew (Bits): 1
Skew (ns): 0.19	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 15	Virtual Lane ID: 16	Physical Lane #: 3	Skew (Bits): 10
Skew (ns): 1.94	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 16	Virtual Lane ID: 18	Physical Lane #: 3	Skew (Bits): 1
Skew (ns): 0.19	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 17	Virtual Lane ID: 19	Physical Lane #: 3	Skew (Bits): 0
Skew (ns): 0.00	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 18	Virtual Lane ID: 7	Physical Lane #: 3	Skew (Bits): 6
Skew (ns): 1.16	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	
Row: 19	Virtual Lane ID: 17	Physical Lane #: 3	Skew (Bits): 9
Skew (ns): 1.75	Sync Acquired: ON	Marker Lock: ON	Code Violations: 0
Invalid Align. Mkrs.: 0	BIP-8 AM Bit Errors: 0	BIP-8 AM Block Errors: 0	

Results: Ethernet / Error Stats	
Code Violations	0
Code Violation Rate	0.00E+00
Code Violation Seconds	0
Runts/Undersized	0
Jabbers	0
FCS Errored Frames	0

Errored Frames	0
Errored Second	0
Severely Errored Second	0
Unavailable Second	0
Errored Second Ratio	0.0000E+00
Severely Errored Second Ratio	0.0000E+00

Results: Ethernet / Capture	
Packets Processed	0
Capture Progress %	Unavailable

Results: Graphs / Throughput
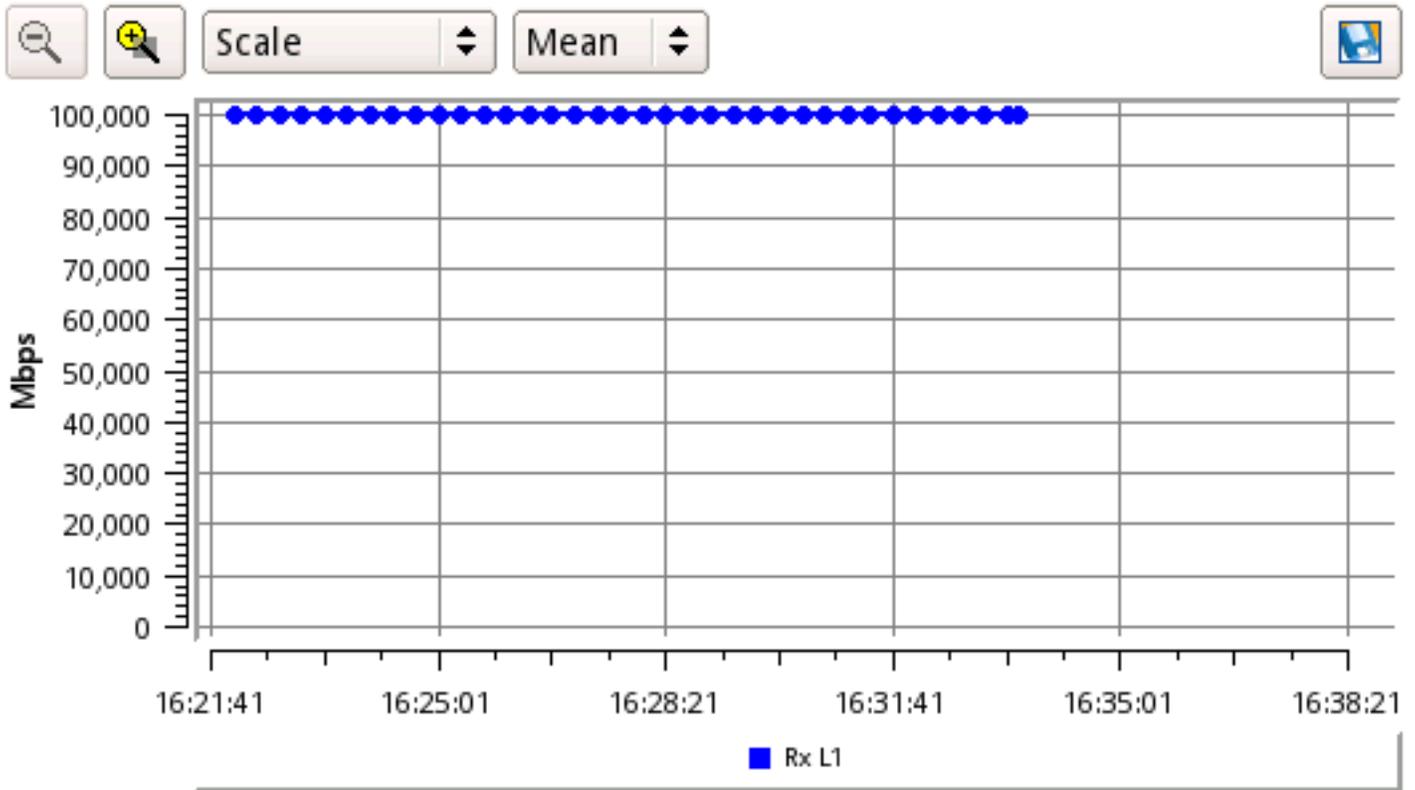
Results: Graphs / Frame Loss, Cur

Frame Loss, Cur
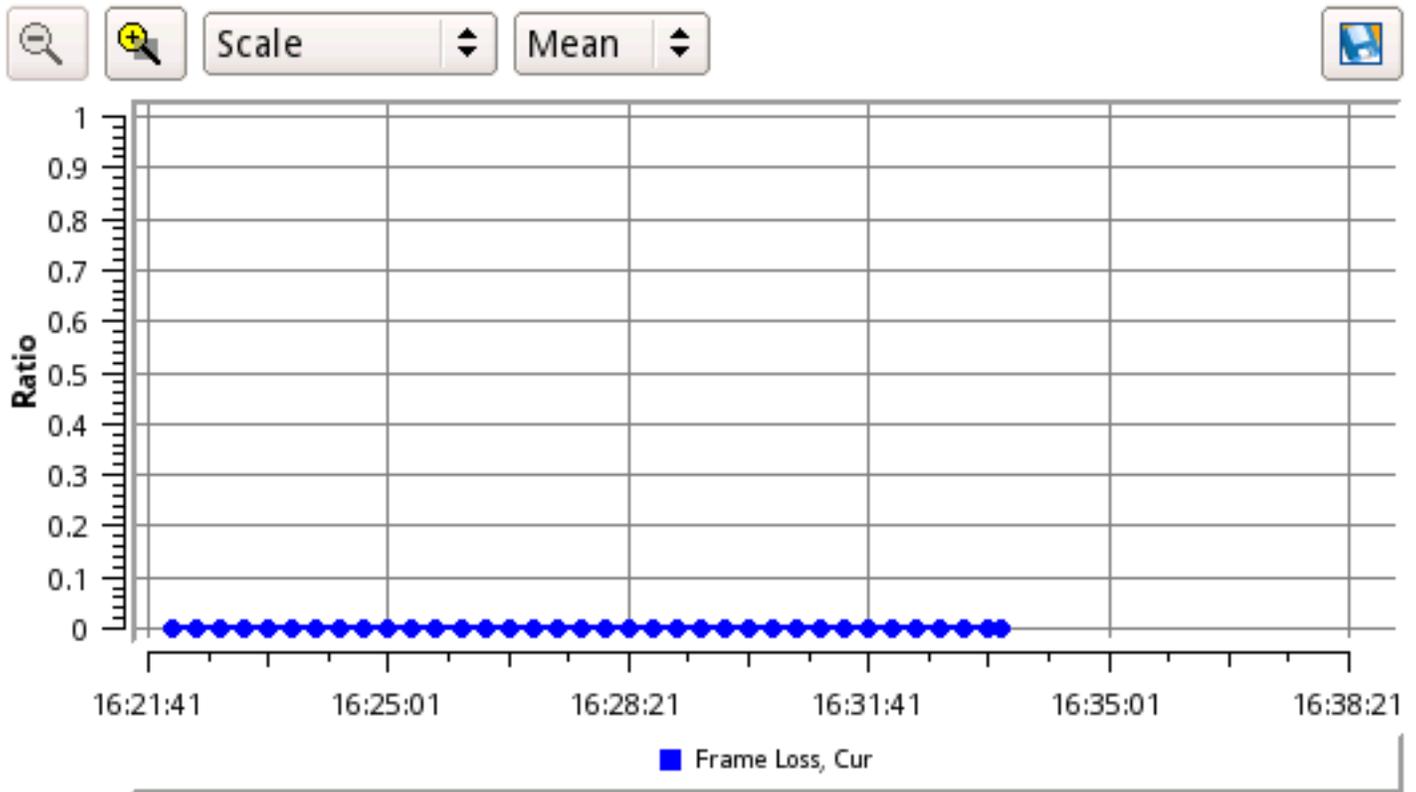
Results: Graphs / Packet Jitter, Avg

Packet Jitter, Avg

Results: Graphs / Packet Jitter, Inst

| Q | ⊕ | Scale ⬍ | Mean ⬍ | | 🖫 |
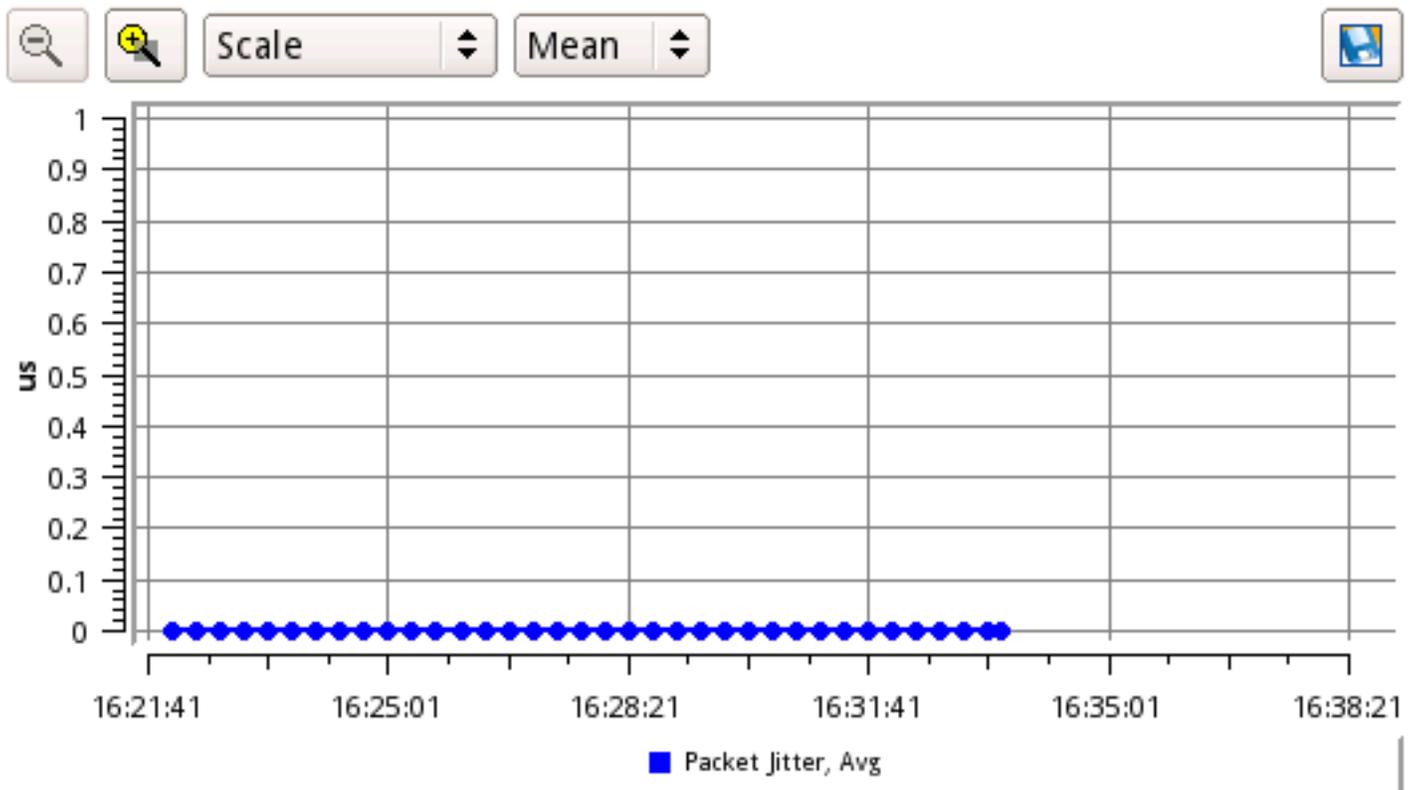
Packet Jitter, Inst
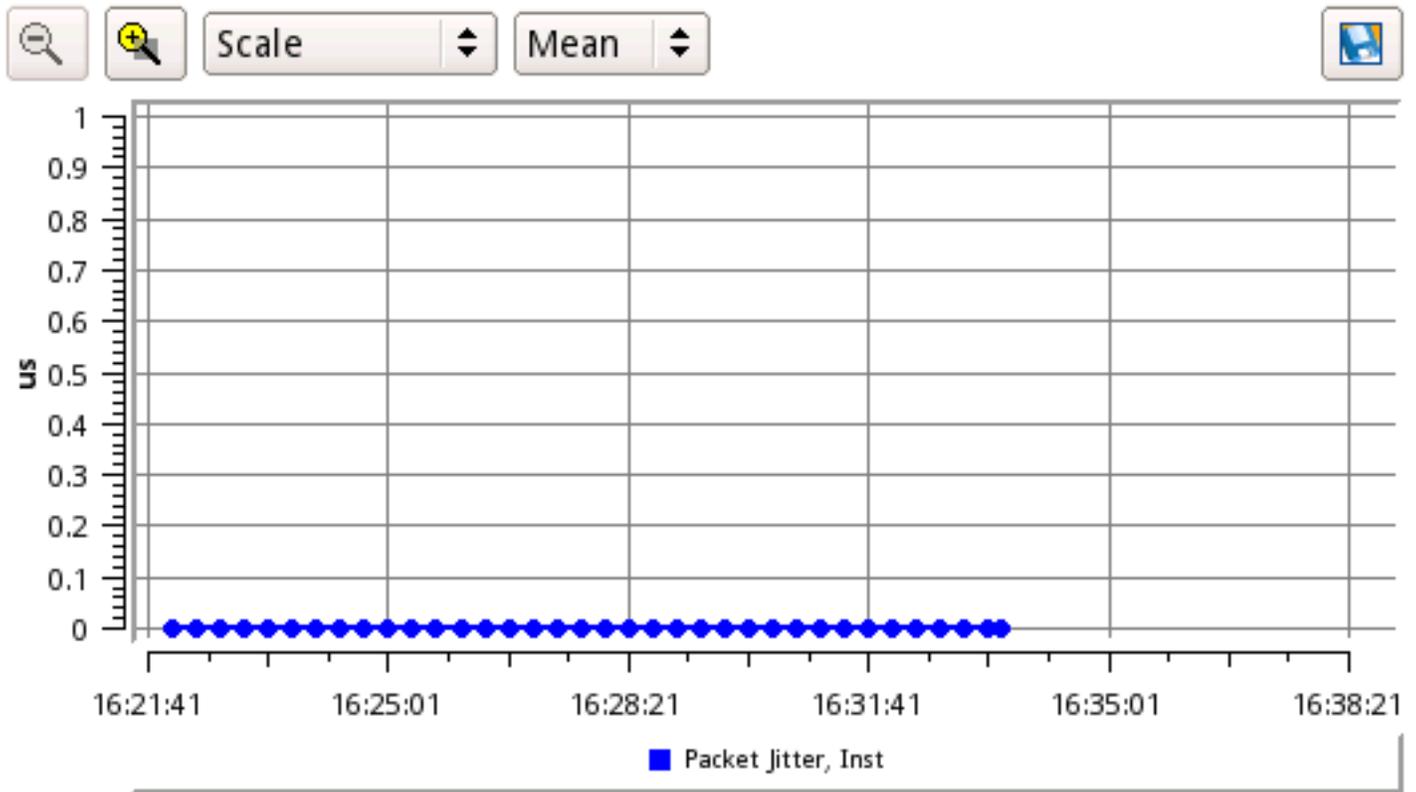
Results: Graphs / Latency (RTD), Cur

| Q | ⊕ | Scale ⬍ | Mean ⬍ | | 🖫 |

Latency (RTD), Cur
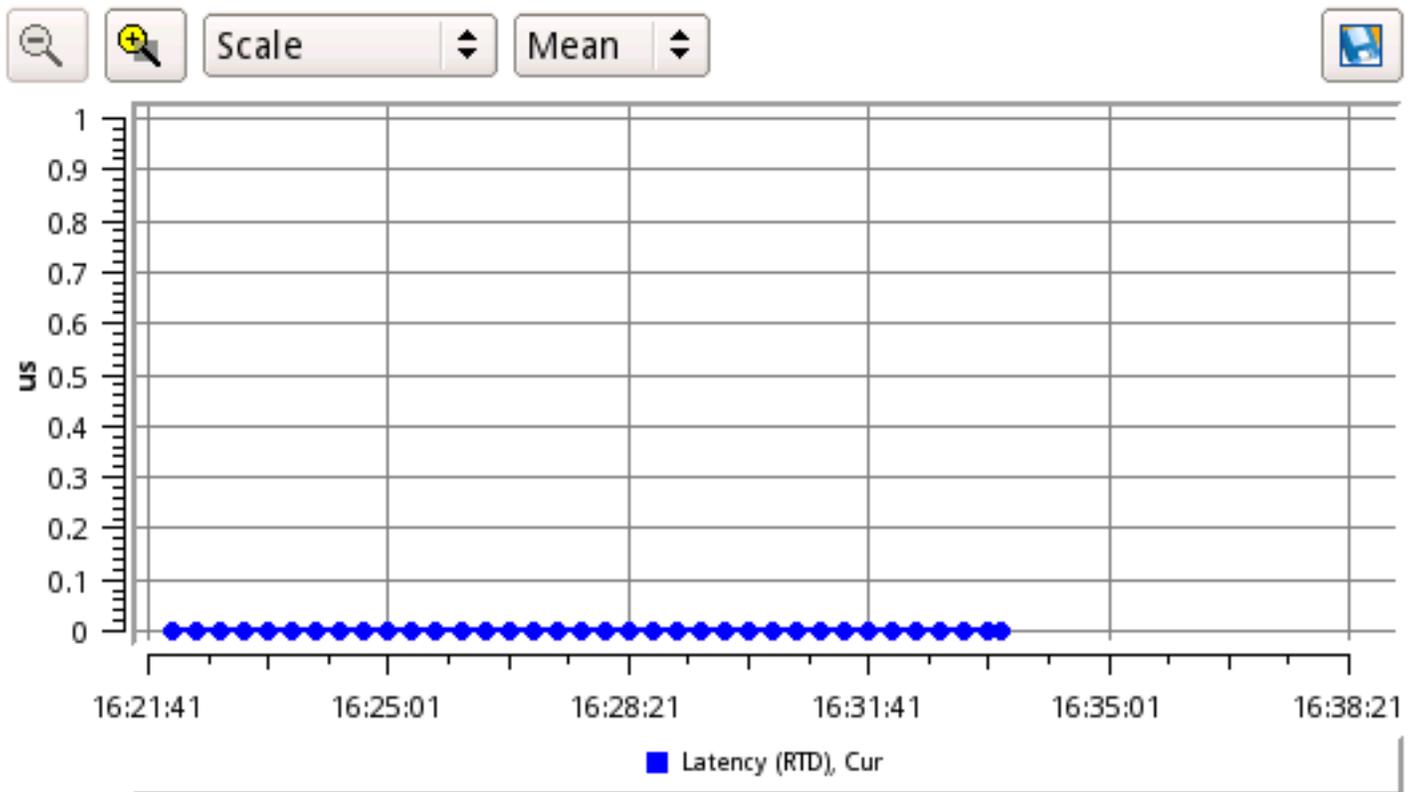
Results: Graphs / Errors
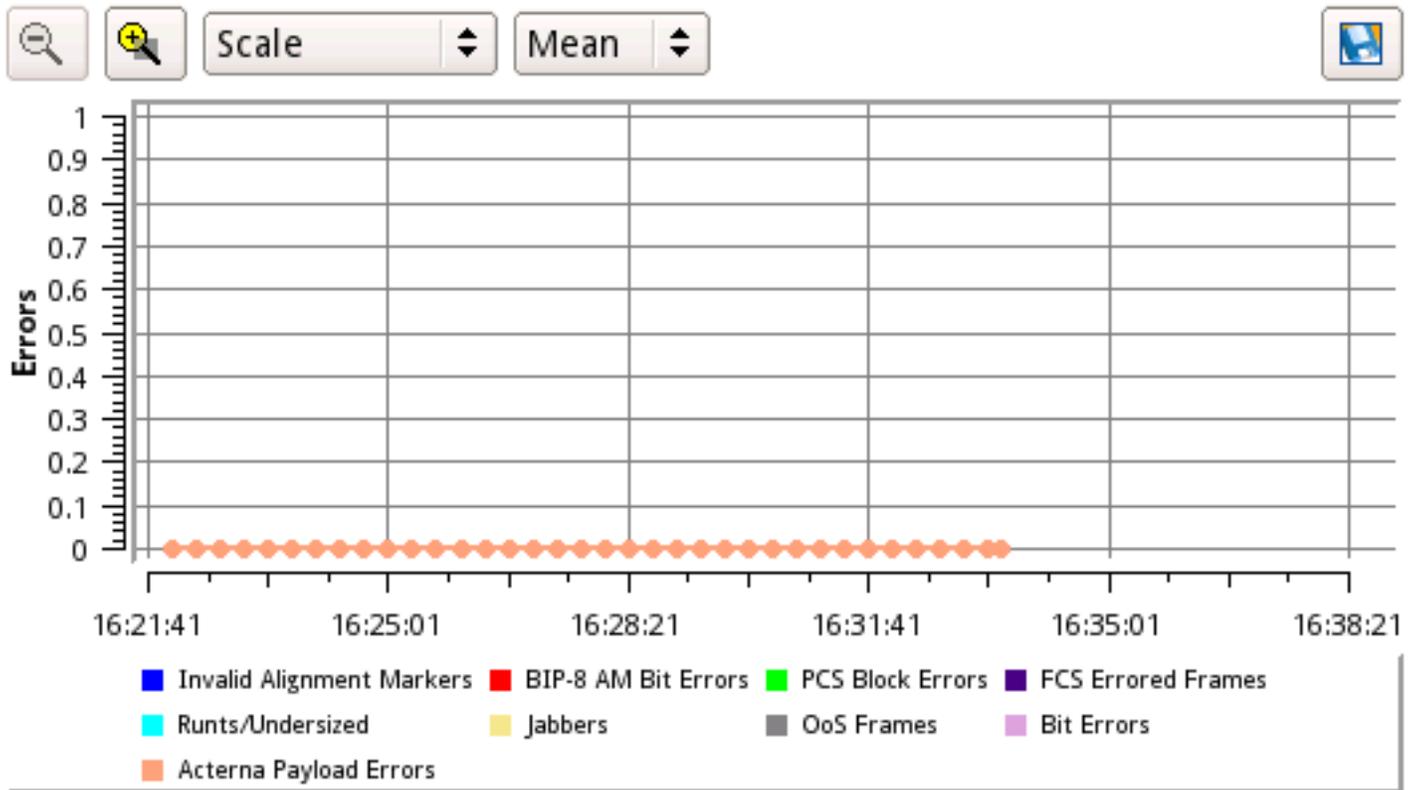
Results: Temperature / All	
QSFP28 Module Temperature (C)	27

Results: Summary / Time	
Current Date	11/29/2021
Current Time	16:33:31
Test Elapsed Time	11m:50s

Results: LEDs	
Signal Present	ON
Sync Acquired	ON
Link Active	ON
Marker Lock	ON
Loss Of Align.	OFF
HI BER	OFF
Frame Detect	ON

Pattern Sync	ON
VLAN Frame Detect	OFF
SVLAN Frame Detect	OFF
Local Fault Detect	OFF
Remote Fault Detect	OFF

Setup: Interface	
Clock Source	Internal
Internal - Frequency Offset (ppm)	0
Optical Connector	QSFP
Skew Alarm Threshold (ns)	180
Flow Control	On
Pause Length (Quanta)	1000
Pause Length (Time - ms)	0.00512
Auto-start traffic when laser turned on	No
Unit Identifier	JDSU-WMSE0163000017-01
Source IP	192.168.1.5
Default Gateway	192.168.1.10
Subnet Mask	255.255.255.0
Test Protection	No

Setup: Connector QSFP	
Vendor	DWDM.RU
Vendor PN	DSO-21-002
Vendor SN	G201906170085
Vendor Rev	A
Date Code	190709
Lot Code	
Module ID	QSFP28
Nominal Wavelength (nm)	1310
Nominal Bit Rate (Mbits/sec)	25,750

Max Rx Level (dBm)	4.9999
Max Tx Level (dBm)	4.9999
Diagnostic Byte	12
Transceiver	100GBASE-LR4

Setup: QSFP Expert	
Enable Expert Mode	Off

Setup: Ethernet	
Encapsulation	None
Test Mode	Traffic
Frame Type	DIX
Frame Size (Bytes)	512
Destination Type	Unicast
Loop Type	Broadcast
Destination MAC	00-80-16-00-00-00
Source MAC Type	Factory Default
Default MAC	00-80-16-93-FB-51
Auto-increment MAC	No
# MACs in Sequence	2
EtherType	0x700
Tx Payload	BERT
Tx BERT Pattern	2^31 - 1

Setup: Traffic	
Load Type	Constant
Load Unit	Percent
Allow flooding	Yes
Load (%)	100

Setup: Capture	
Capture buffer size (MB)	16

Capture frame slicing	None
When capture buffer is filled	Stop Capture
Include frames from Traffic tab	No
Use Filters as	Filter

Setup: Filters / Ethernet	
Encapsulation	Don't Care
Destination Type	Don't Care
Source MAC Type	Don't Care

Setup: Filters / Payload	
Payload Analysis	On
Use Tx Payload settings	Yes
Rx Payload	BERT
Rx BERT Pattern	2^31 - 1

Setup: Filters / TPID	
User Allowable SVLAN TPID (hex)	0x8100

Setup: Service Disruption	
Enable Service Disruption	OFF
Separation Time (ms)	300
Threshold Time (ms)	50
Tx and Rx	Couple
Signal Loss	ON
Event Trigger: Sync Loss	ON
Event Trigger: Local Fault	ON
Event Trigger: Remote Fault	ON
Event Trigger: Errored Blocks (PCS)	ON
Event Trigger: Code Violation	ON
Event Trigger: Alignmet Marker Loss	ON
Event Trigger: Interframe Gap	OFF

Interframe Gap Trigger Type	All Frames
Interframe Gap Minimum Threshold (ms)	0.005
Event Trigger: FCS	ON

Setup: Timed Test	
Test Type	Not Timed

Setup: Toolbar / Peak IFG	
Tx and Rx	Couple

Setup: Toolbar / Alarms	
Alarm Type	HI BER

Setup: Toolbar / Errors	
Error Type	Code
Lane	0
Insertion Style	Single

Log: Event Log

No.	*Event*	*Date*	*Start Time*	*Stop Time*	*Dur./Val.*
1	START	11/29/2021	16:21:41.0	--	--

Log: SD - Summary

No.	*Date*	*Start*	*Stop*	*Dur. (ms)*	*Status*

Log: SD - Details

No.	*Event*	*Date*	*Start*	*Stop*	*Dur. (ms)*	*Status*

Log: SD - Statistics

	Duration (ms)	*Start Time*	*Stop Time*	*Status*
Longest	***	***	***	***
Shortest	***	***	***	***
Last	***	***	***	***

Average	***			
Disruptions	Total = 0	18		

Histogram

	Date: 11/29/2021	Time: 16:21:00	
Alarm Summary			
Error Summary			

QSFP Rx OverId	00:00:00.0	
Signal Loss	00:00:00.0	
Timing Src Loss	00:00:00.0	
Align Mkr. Lock Loss	00:00:00.0	
Exc. Skew	00:00:00.0	

Invalid Align Mkrs.	0	
BIP-8 AM Bit Errs	0	
BIP-8 AM Blk Errs	0	
Code Violations	0	
PCS Block Errs	0	

16:30 16:40 16:50 17:00 17:10 17:20 17:30 17:40