

Generated by Viavi 5800-100G

Enhanced RFC 2544 Test

Overall Test Result: Completed

Throughput



Latency



Packet Jitter



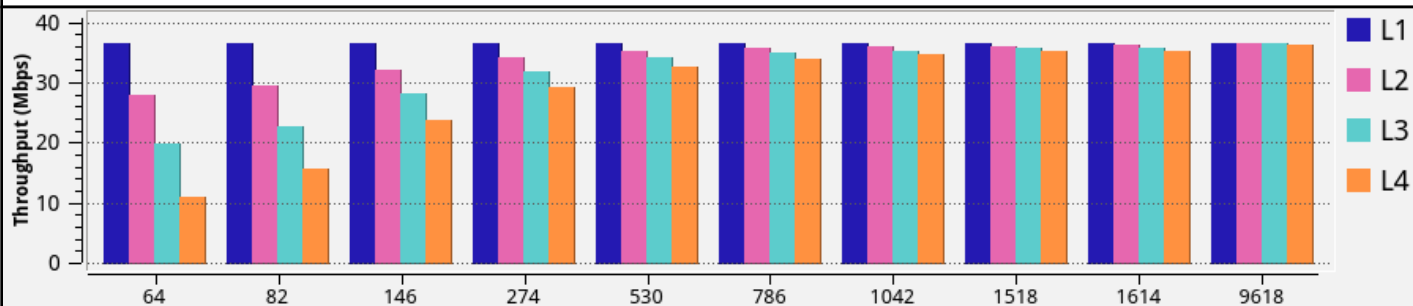
Frame Loss



Mode	Symmetric Loopback
Tests to Run	Throughput, Latency, Packet Jitter, Frame Loss
Customer Name	SpecInt OoS 40G
Technician ID	--
Test Location	--
Work Order	--
Comments/Notes	--
Instrument	MTS5800-100G
Serial Number	XMSE0084540022
SW Version	32.1.0
Start Date	05/15/2025
End Date	05/15/2025
Start Time	10:40:18
End Time	10:49:48

Enhanced RFC 2544: QSFP28 Interface Details	
Vendor	FINISAR CORP.
Vendor PN	FTLC1154SDPL
Vendor SN	U27ADA0
Vendor Rev	A0
Date Code	190824
Lot Code	
Module ID	QSFP28
Power Level Type	Average Power
Rx Max Lambda Power (dBm)	5.5000
Tx Max Lambda Power (dBm)	7.5000
Nominal Bit Rate (Mbits/sec)	28,000
Nominal Wavelength (nm)	1302
Max Link Length	10km (SMF)
Cable Length	---
Diagnostic Byte	12
Transceiver	100GBASE-LR4

Enhanced RFC 2544: Optical Power	
Rx Level Lambda #1 (dBm)	2.3
Rx Level Lambda #2 (dBm)	1.5
Rx Level Lambda #3 (dBm)	0.7
Rx Level Lambda #4 (dBm)	0.7
Rx Level Sum (dBm)	7.4
Tx Level Lambda #1 (dBm)	2.8
Tx Level Lambda #2 (dBm)	3.0
Tx Level Lambda #3 (dBm)	2.3
Tx Level Lambda #4 (dBm)	2.2
Tx Level Sum (dBm)	8.6

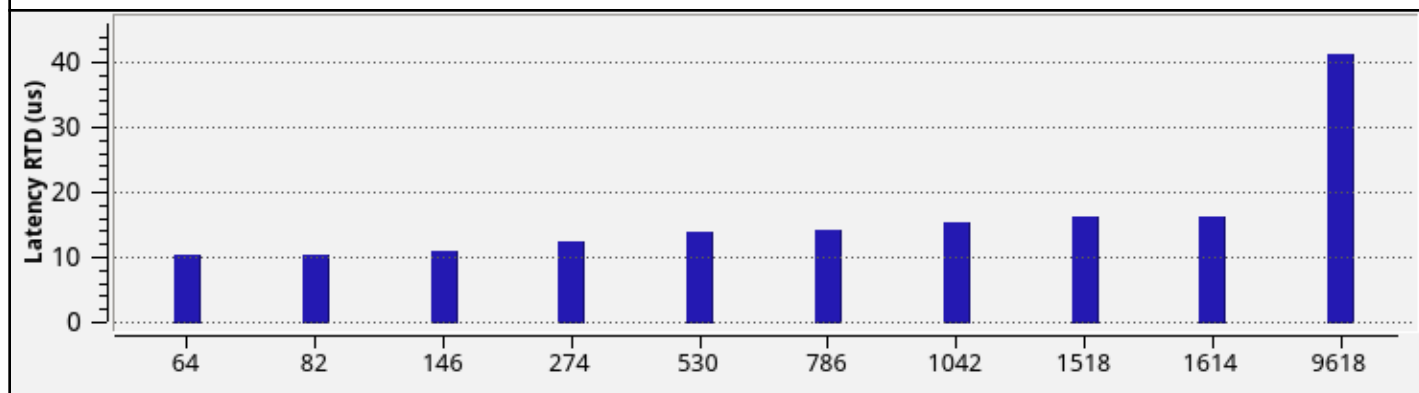
Enhanced RFC 2544: Throughput Test Graph**Enhanced RFC 2544: Throughput Test Results**

<i>Frame Length (Bytes)</i>	<i>Measured L1 (% Line Rate)</i>	<i>Measured L2 (% Line Rate)</i>	<i>Measured L3 (% Line Rate)</i>	<i>Measured L4 (% Line Rate)</i>	<i>Measured Rate (frms/sec)</i>	<i>Pause Detect</i>	<i>Cfg Rate (L1 Mbps)</i>
64	37.000	28.190	20.262	11.452	55,059,511	No	37000.000
82	37.000	29.745	23.216	15.961	45,343,128	No	37000.000
146	37.000	32.542	28.530	24.072	27,861,445	No	37000.000
274	37.000	34.483	32.218	29.701	15,731,297	No	37000.000
530	37.000	35.655	34.444	33.098	8,409,091	No	37000.000
786	37.000	36.082	35.256	34.337	5,738,214	No	37000.000
1042	37.000	36.303	35.676	34.979	4,354,990	No	37000.000
1518	37.000	36.519	36.086	35.605	3,007,154	No	37000.000
1614	37.000	36.547	36.140	35.687	2,830,477	No	37000.000
9618	37.000	36.923	36.854	36.777	479,872	No	37000.000

Enhanced RFC 2544: Throughput Anomalies

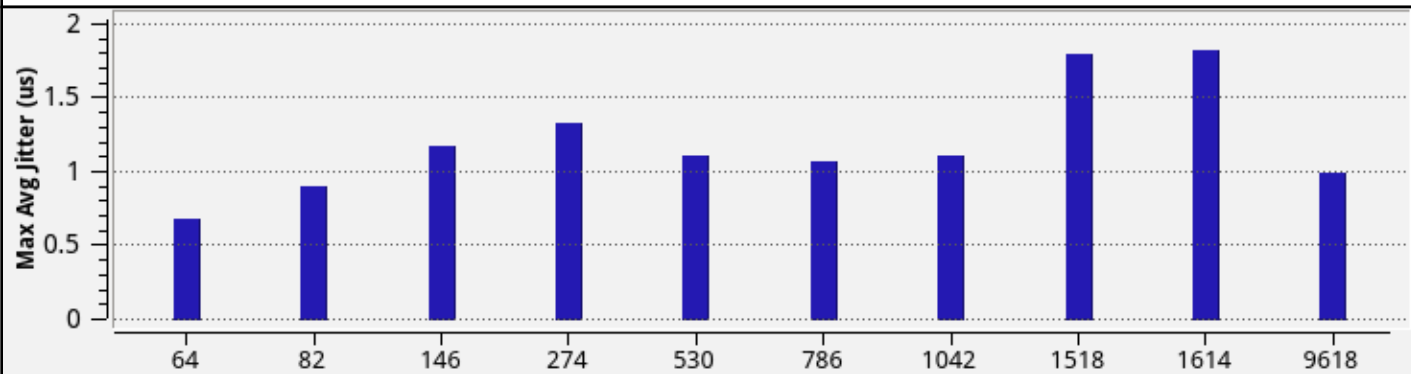
<i>Frame Length (Bytes)</i>	<i>OoS Frame(s) Detected</i>	<i>Acterna Payload Error Detected</i>	<i>FCS Error Detected</i>	<i>IP Checksum Error Detected</i>
64	Yes	No	No	No
82	Yes	No	No	No
146	Yes	No	No	No
274	Yes	No	No	No
530	Yes	No	No	No
786	Yes	No	No	No
1042	Yes	No	No	No

1518	Yes	No	No	No
1614	Yes	No	No	No
9618	Yes	No	No	No

Enhanced RFC 2544: Latency Test Graph**Enhanced RFC 2544: Latency Test Results**

<i>Frame Length (Bytes)</i>	<i>Latency RTD (us)</i>	<i>Measured L1 Rate (Mbps)</i>	<i>Measured L1 (% Line Rate)</i>	<i>Measured Rate (frms/sec)</i>	<i>Pause Detect</i>
64	10.68	37000.000	37.000	55,059,511	No
82	10.71	37000.000	37.000	45,343,128	No
146	11.34	37000.000	37.000	27,861,445	No
274	12.76	37000.000	37.000	15,731,297	No
530	14.16	37000.000	37.000	8,409,091	No
786	14.43	37000.000	37.000	5,738,214	No
1042	15.79	37000.000	37.000	4,354,990	No
1518	16.68	37000.000	37.000	3,007,154	No
1614	16.75	37000.000	37.000	2,830,477	No
9618	41.74	37000.000	37.000	479,872	No

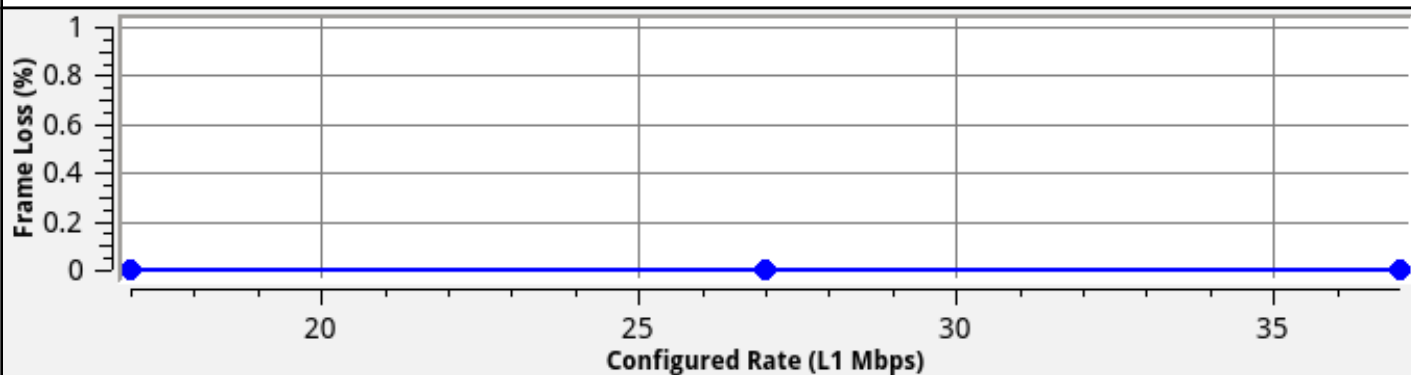
Enhanced RFC 2544: Jitter Test Graph



Enhanced RFC 2544: Jitter Test Results

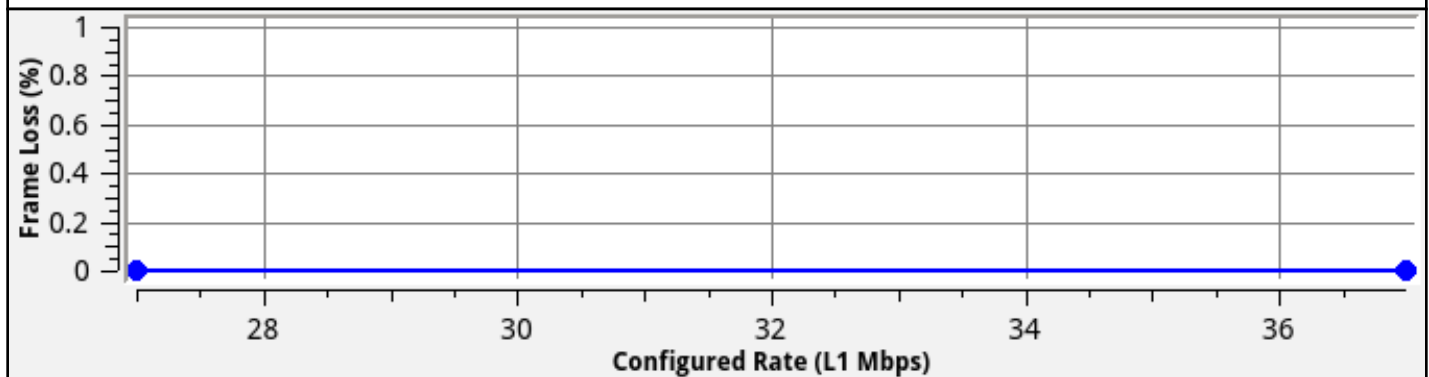
<i>Frame Length (Bytes)</i>	<i>Max Avg Jitter (us)</i>	<i>Measured L1 Rate (Mbps)</i>	<i>Measured L1 (% Line Rate)</i>	<i>Measured Rate (frms/sec)</i>	<i>Pause Detect</i>
64	0.70	37000.000	37.000	55,059,511	No
82	0.92	37000.000	37.000	45,343,128	No
146	1.19	37000.000	37.000	27,861,445	No
274	1.34	37000.000	37.000	15,731,297	No
530	1.12	37000.000	37.000	8,409,091	No
786	1.08	37000.000	37.000	5,738,214	No
1042	1.12	37000.000	37.000	4,354,990	No
1518	1.81	37000.000	37.000	3,007,154	No
1614	1.84	37000.000	37.000	2,830,477	No
9618	1.00	37000.000	37.000	479,872	No

Enhanced RFC 2544: 64 Byte Frame Loss Test Graph

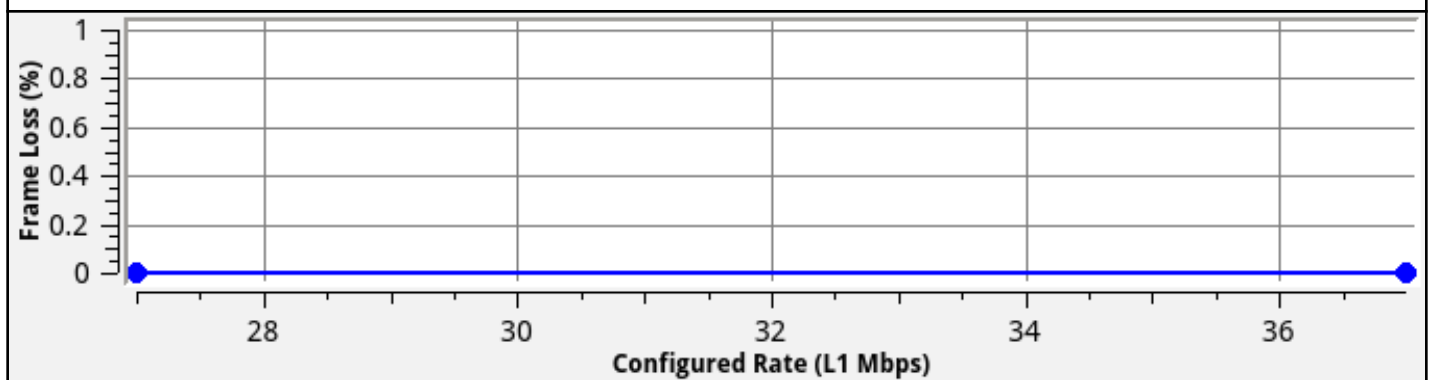


Enhanced RFC 2544: 64 Byte Frame Loss Test Results

<i>Throughput Rate (%)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>OoS Detect</i>	<i>Pause Detect</i>	<i>Cfg Rate (%)</i>
37.000	0.00	1	Yes	No	37.000
27.000	0.00	0	Yes	No	27.000
17.000	0.00	0	Yes	No	17.000

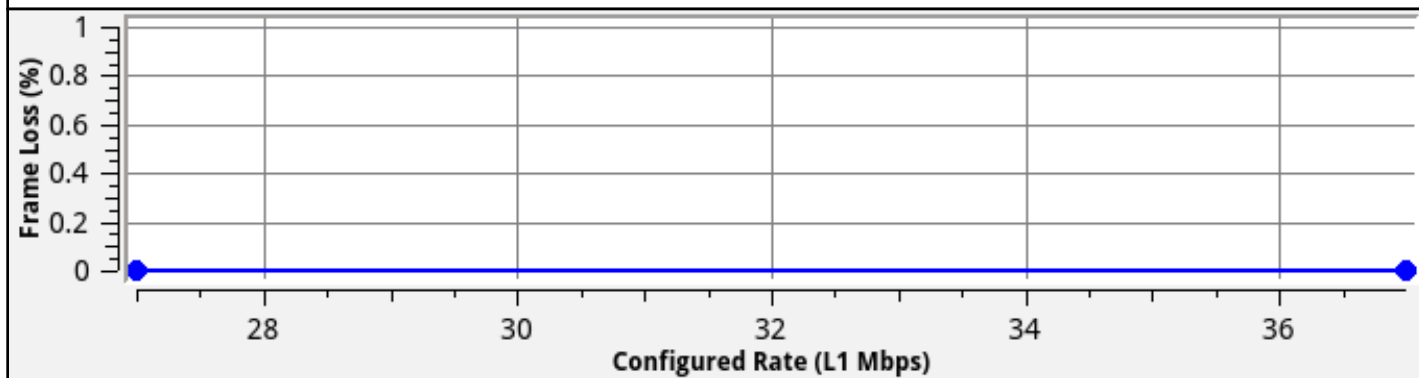
Enhanced RFC 2544: 82 Byte Frame Loss Test Graph**Enhanced RFC 2544: 82 Byte Frame Loss Test Results**

<i>Throughput Rate (%)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>OoS Detect</i>	<i>Pause Detect</i>	<i>Cfg Rate (%)</i>
37.000	0.00	0	Yes	No	37.000
27.000	0.00	0	Yes	No	27.000

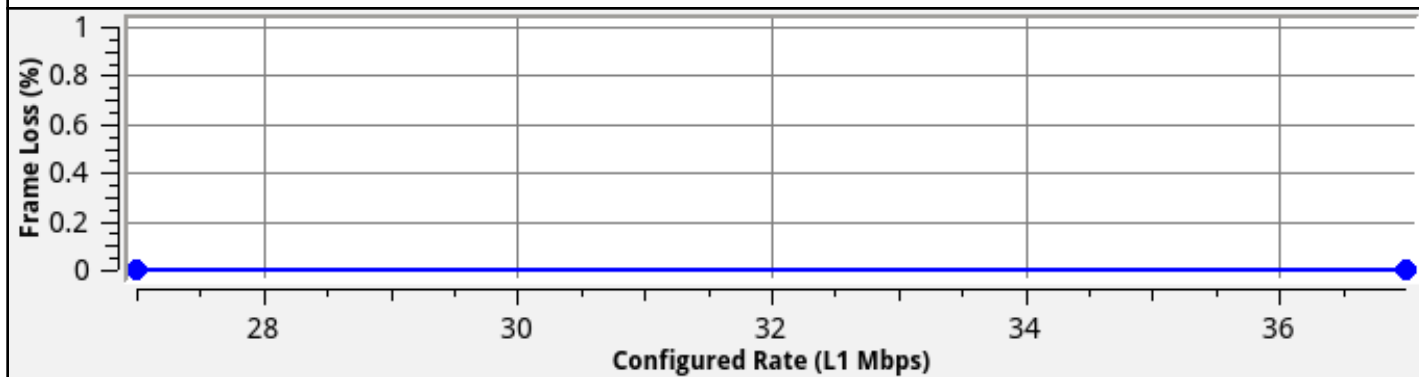
Enhanced RFC 2544: 146 Byte Frame Loss Test Graph**Enhanced RFC 2544: 146 Byte Frame Loss Test Results**

<i>Throughput Rate (%)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>OoS Detect</i>	<i>Pause Detect</i>	<i>Cfg Rate (%)</i>
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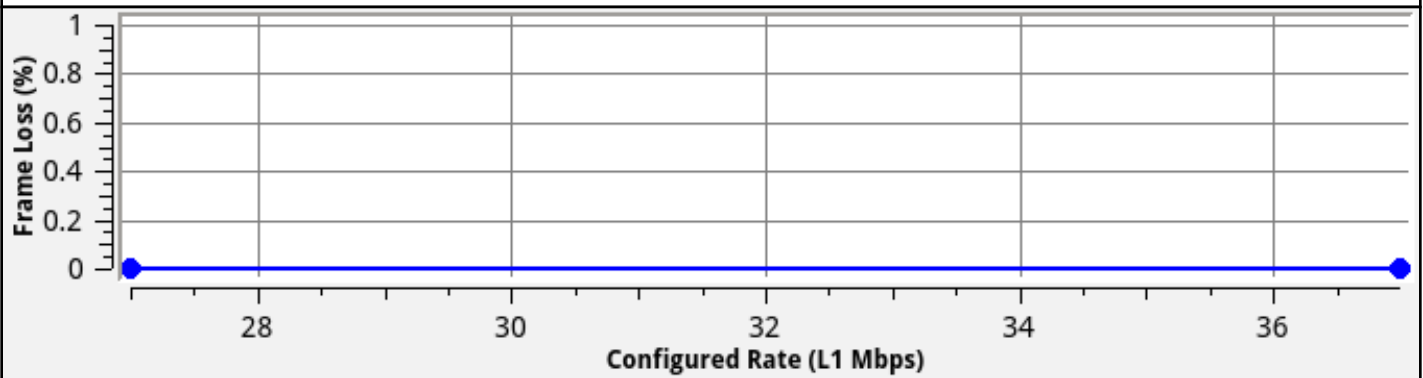
37.000	0.00	0	Yes	No	37.000
27.000	0.00	0	Yes	No	27.000

Enhanced RFC 2544: 274 Byte Frame Loss Test Graph**Enhanced RFC 2544: 274 Byte Frame Loss Test Results**

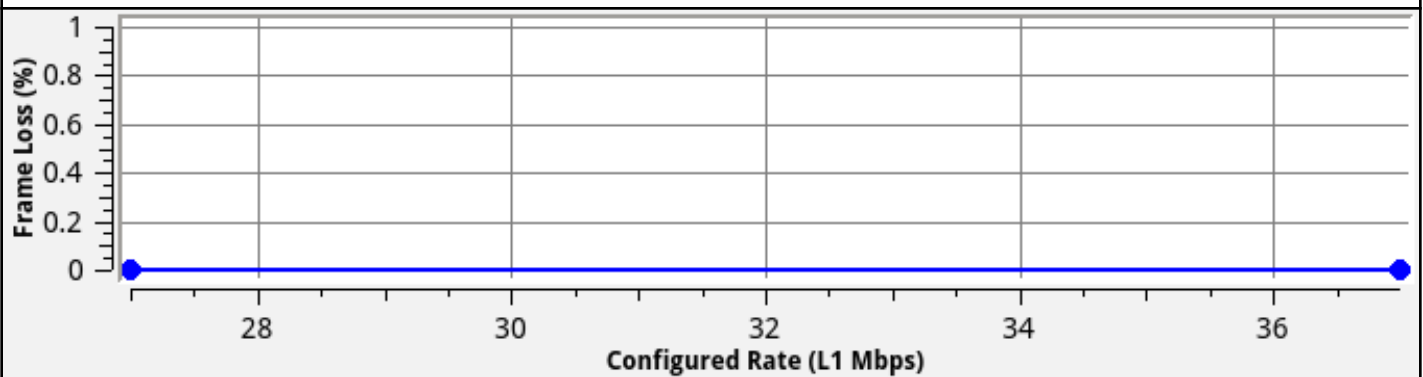
<i>Throughput Rate (%)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>OoS Detect</i>	<i>Pause Detect</i>	<i>Cfg Rate (%)</i>
37.000	0.00	0	Yes	No	37.000
27.000	0.00	0	Yes	No	27.000

Enhanced RFC 2544: 530 Byte Frame Loss Test Graph**Enhanced RFC 2544: 530 Byte Frame Loss Test Results**

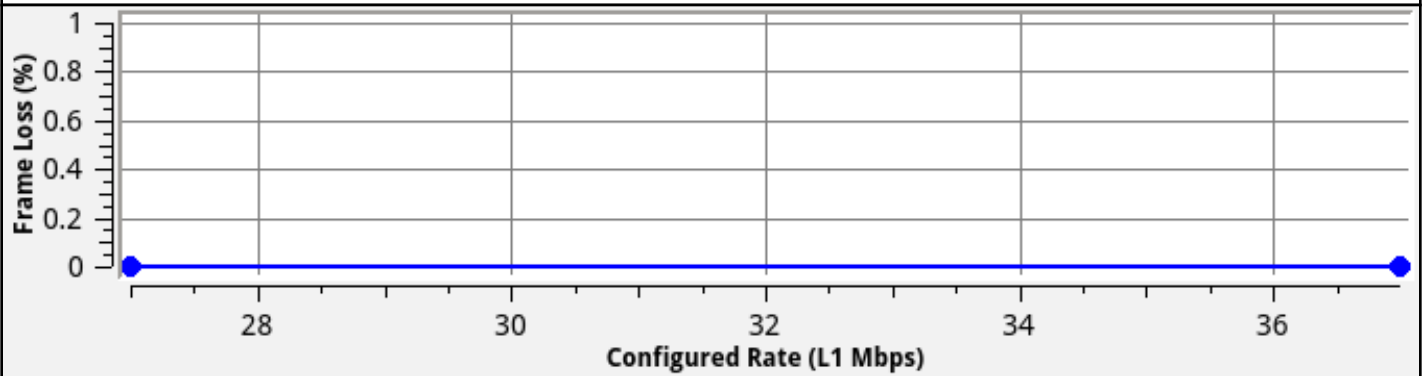
<i>Throughput Rate (%)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>OoS Detect</i>	<i>Pause Detect</i>	<i>Cfg Rate (%)</i>
37.000	0.00	0	Yes	No	37.000
27.000	0.00	0	Yes	No	27.000

Enhanced RFC 2544: 786 Byte Frame Loss Test Graph**Enhanced RFC 2544: 786 Byte Frame Loss Test Results**

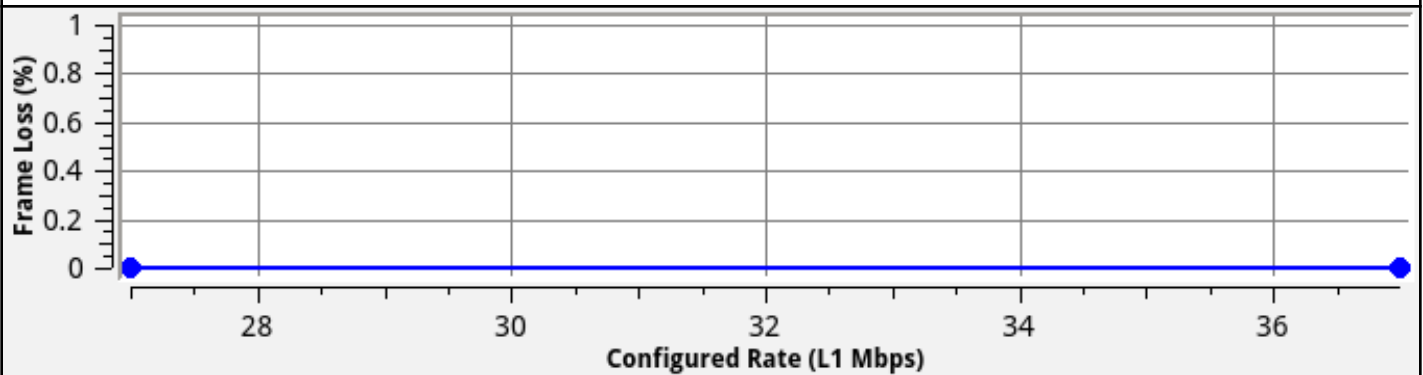
<i>Throughput Rate (%)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>OoS Detect</i>	<i>Pause Detect</i>	<i>Cfg Rate (%)</i>
37.000	0.00	0	Yes	No	37.000
27.000	0.00	0	Yes	No	27.000

Enhanced RFC 2544: 1042 Byte Frame Loss Test Graph**Enhanced RFC 2544: 1042 Byte Frame Loss Test Results**

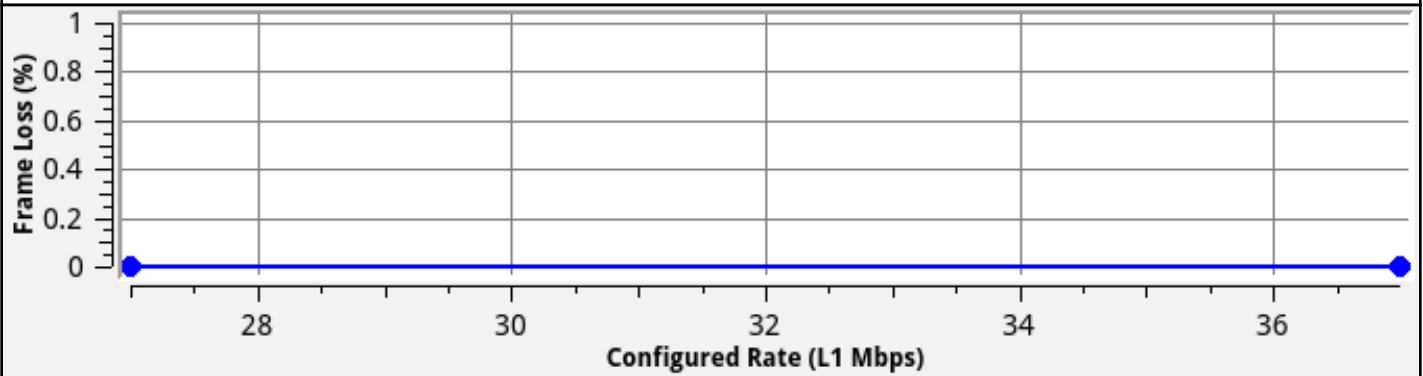
<i>Throughput Rate (%)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>OoS Detect</i>	<i>Pause Detect</i>	<i>Cfg Rate (%)</i>
37.000	0.00	0	Yes	No	37.000
27.000	0.00	0	Yes	No	27.000

Enhanced RFC 2544: 1518 Byte Frame Loss Test Graph**Enhanced RFC 2544: 1518 Byte Frame Loss Test Results**

<i>Throughput Rate (%)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>OoS Detect</i>	<i>Pause Detect</i>	<i>Cfg Rate (%)</i>
37.000	0.00	0	Yes	No	37.000
27.000	0.00	0	Yes	No	27.000

Enhanced RFC 2544: 1614 Byte Frame Loss Test Graph**Enhanced RFC 2544: 1614 Byte Frame Loss Test Results**

<i>Throughput Rate (%)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>OoS Detect</i>	<i>Pause Detect</i>	<i>Cfg Rate (%)</i>
37.000	0.00	0	Yes	No	37.000
27.000	0.00	0	Yes	No	27.000

Enhanced RFC 2544: 9618 Byte Frame Loss Test Graph**Enhanced RFC 2544: 9618 Byte Frame Loss Test Results**

<i>Throughput Rate (%)</i>	<i>Frame Loss Rate (%)</i>	<i>Frames Lost</i>	<i>OoS Detect</i>	<i>Pause Detect</i>	<i>Cfg Rate (%)</i>
37.000	0.00	0	Yes	No	37.000
27.000	0.00	0	Yes	No	27.000

Enhanced RFC 2544: Network Configuration

Frame Type	DIX
Encapsulation	None
Source MAC	00-80-16-95-10-B6
Destination MAC	00-80-16-95-10-B7
Source IP Type	Static
Source IP Address	192.168.1.5
Default Gateway	192.168.1.10
Subnet Mask	255.255.255.0
Destination IP Address	192.168.1.2
Time to Live (hops)	64

Enhanced RFC 2544: Test Configuration

Tests to Run	Throughput, Latency, Packet Jitter, Frame Loss
Acterna Payload Version	Version 3
Bandwidth Unit	%
Max Test Bandwidth (%)	37.000
Frame Lengths Selected (bytes)	64, 82, 146, 274, 530, 786, 1042, 1518, 1614, 9618

Throughput Measurement Accuracy	To within 1.0%
Throughput Zeroing-in Process	Viavi Enhanced
Throughput Frame Loss Tolerance (%)	0
All Tests Duration (s)	5
All Tests Number of Trials	1
Throughput Pass Threshold	Not Selected
Configure Max Bandwidth per Frame Size	Not Selected
Latency Pass Threshold	Not Selected
Packet Jitter Pass Threshold	Not Selected
Frame Loss Test Procedure	RFC 2544 Standard
Frame Loss Bandwidth Granularity (%)	10
Test Protection	0