IxNetwork Report

Test: **RFC2544 - Throughput/Latency**

Test Date: **08/02/2017**   **20:49:43**

Table of Contents

RFC2544 - Throughput/Latency - Info

Test Information

Product Information

Product Label :	Your switch/router name here
Product Version :	Your firmware version here
Serial Number :	Your switch/router serial number here
Comments :	

Test Settings

Date Executed :	08/02/2017
Time Executed :	20:49:43
User Name :	
Number of Trials Executed :	1
Stream Duration (sec) :	20

Output Parameters

Number of Trials Passed :	N/A
Test Duration :	00:03:15

RFC2544 - Throughput/Latency - Port Map Information

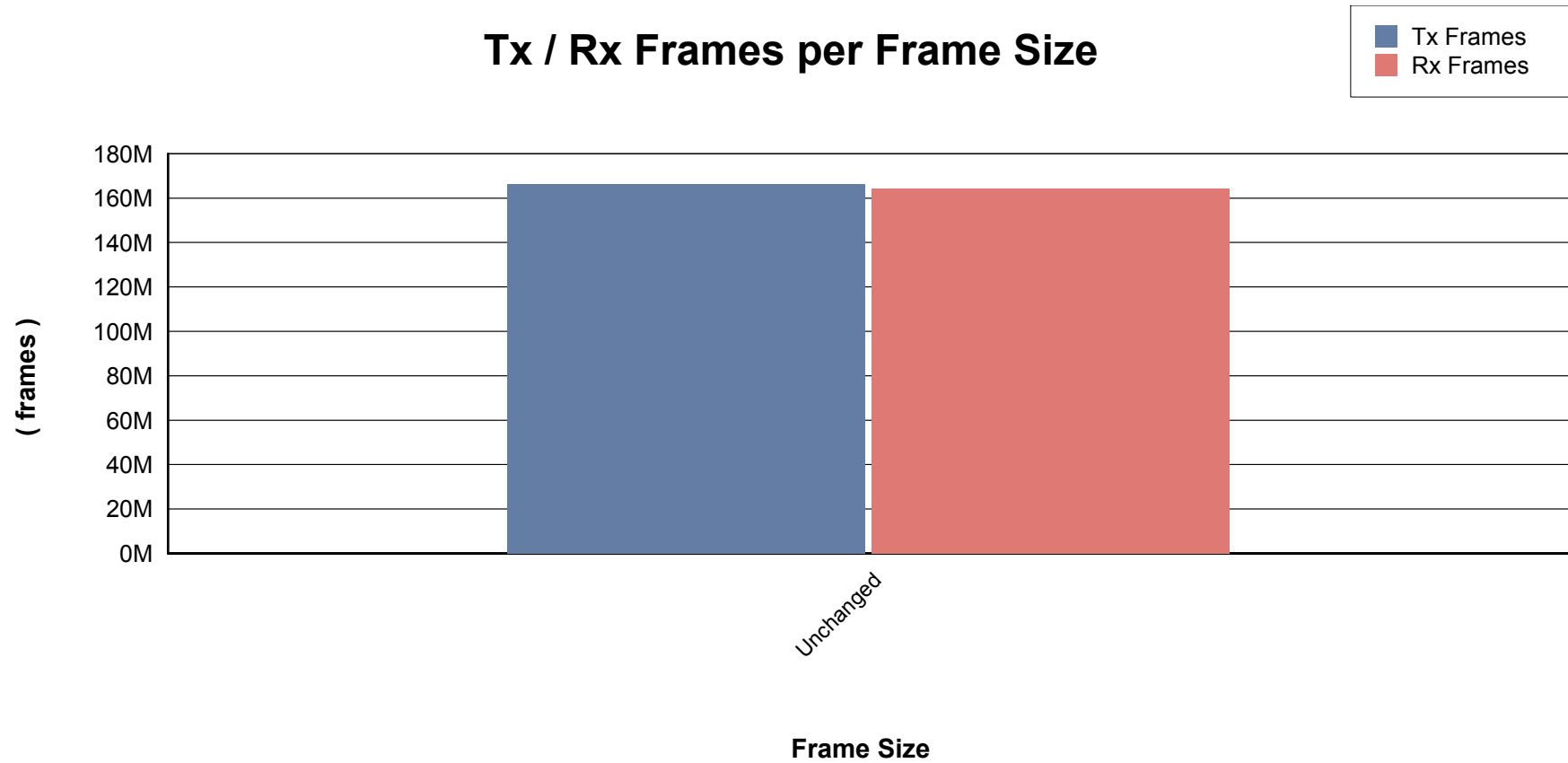| Port Map :	Tx Port	Tx Speed (Mbps)	Rx Port	Rx Speed (Mbps)
	172.16.0.9:2:1	10000	172.16.0.9:2:2	10000

RFC2544 - Throughput/Latency - Aggregated Graph

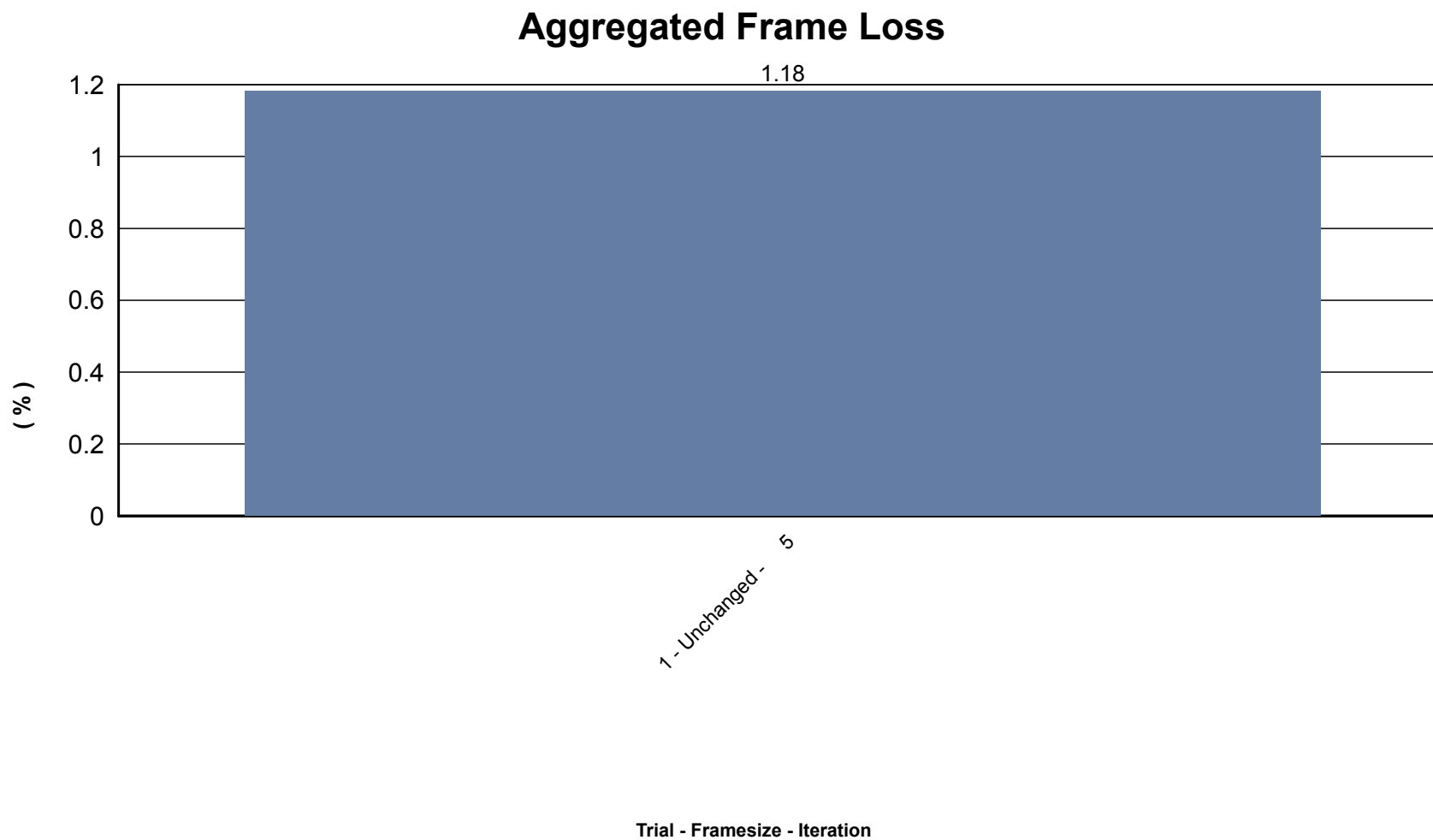# Total Frames Transmitted and Received

■ Tx Frames
■ Rx Frames
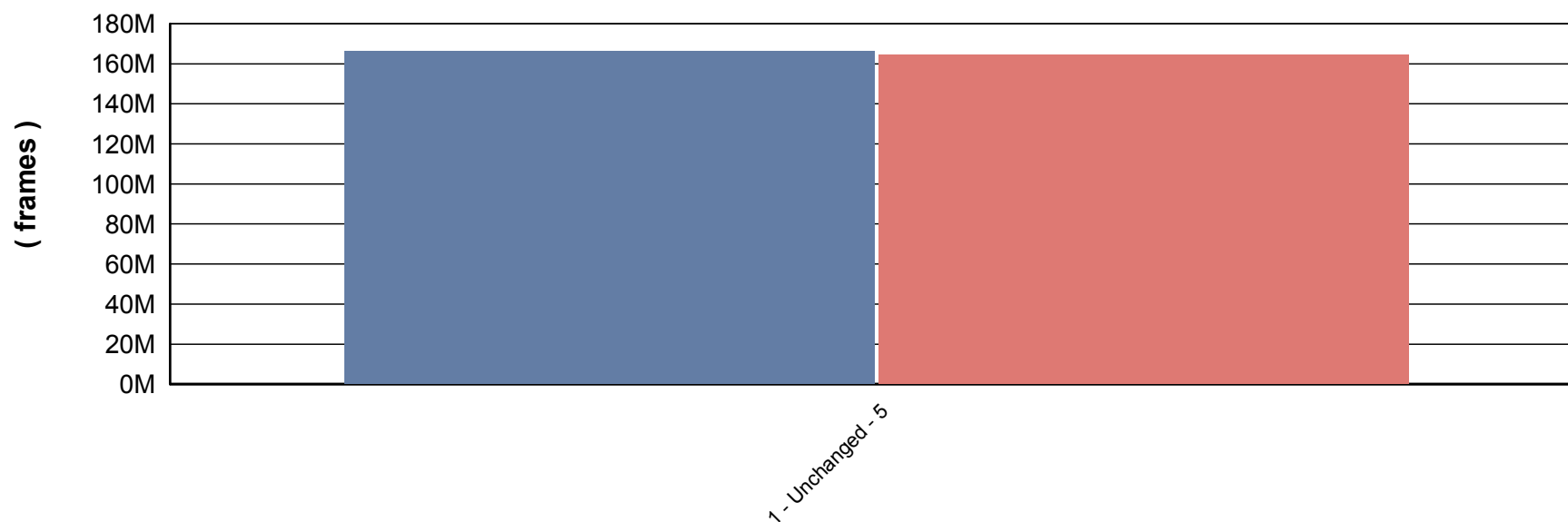
Trial - Framesize - Iteration

RFC2544 - Throughput/Latency - Aggregated Graph

Tx / Rx Frames per Frame Size

Frame Size

RFC2544 - Throughput/Latency - Aggregated Graph

Aggregated Frame Loss

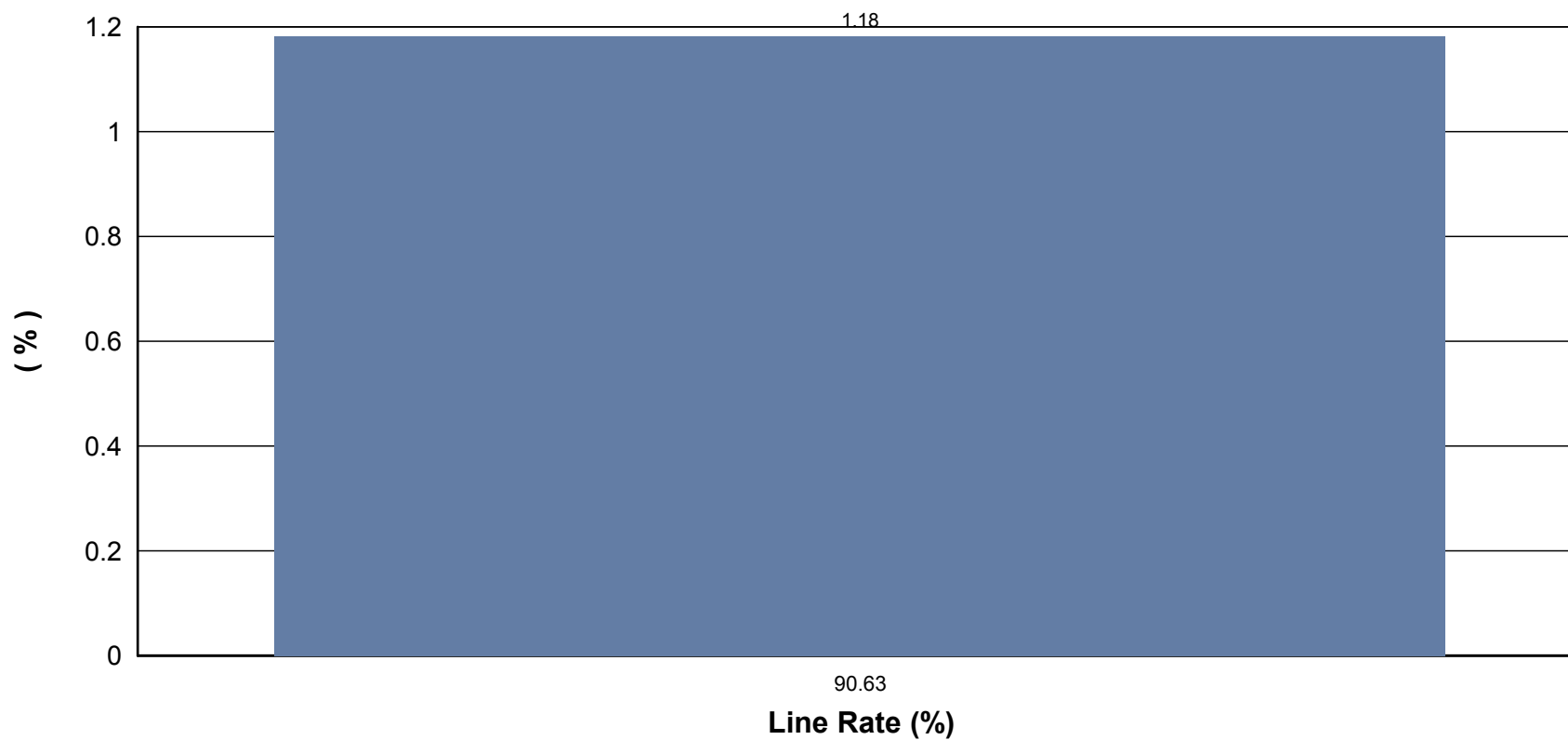Trial - Framesize - Iteration

RFC2544 - Throughput/Latency - Aggregated Graph

Aggregated Frame Loss per Frame Size
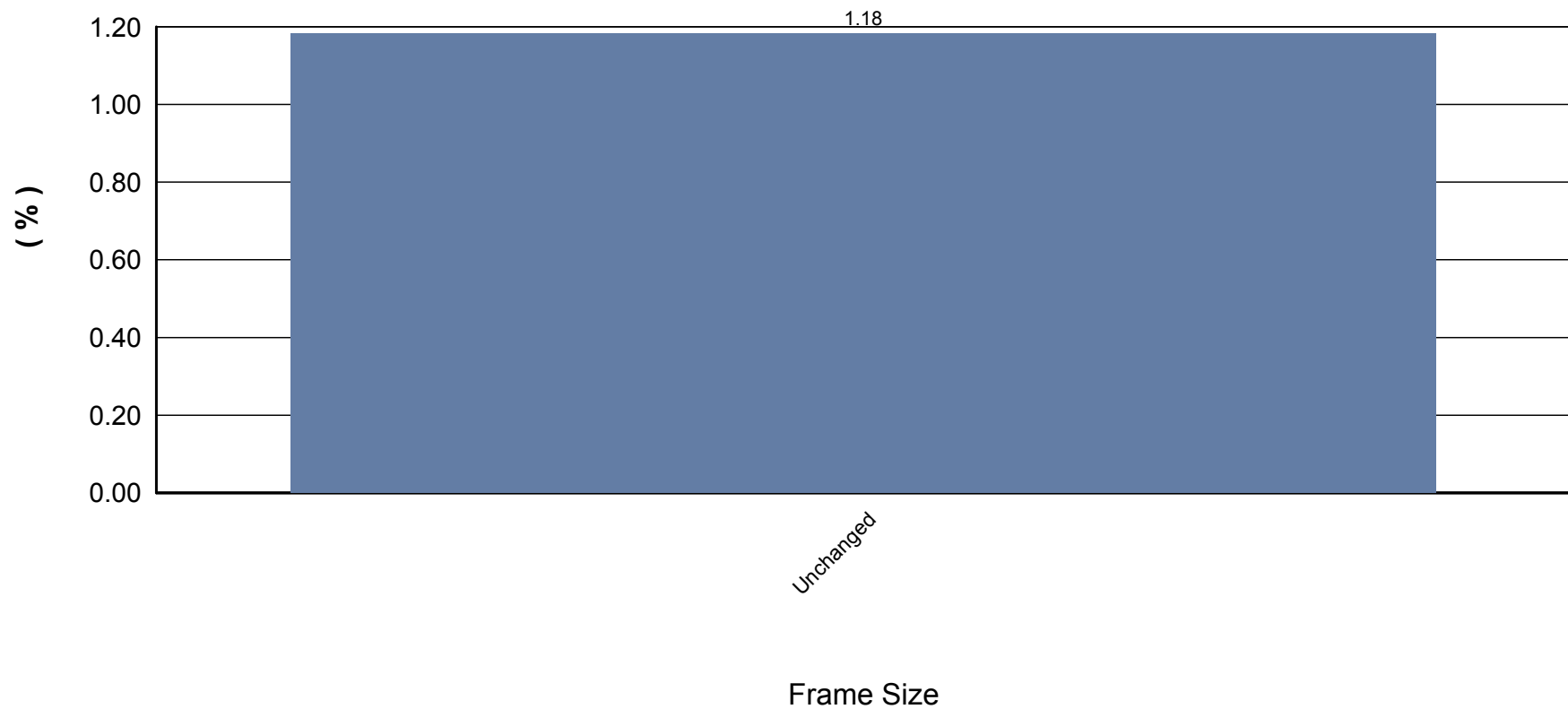
RFC2544 - Throughput/Latency - Aggregated Graph

Aggregated Frame Loss per Line Rate

RFC2544 - Throughput/Latency - Per Flow Graph

Average Frame Loss per Flow
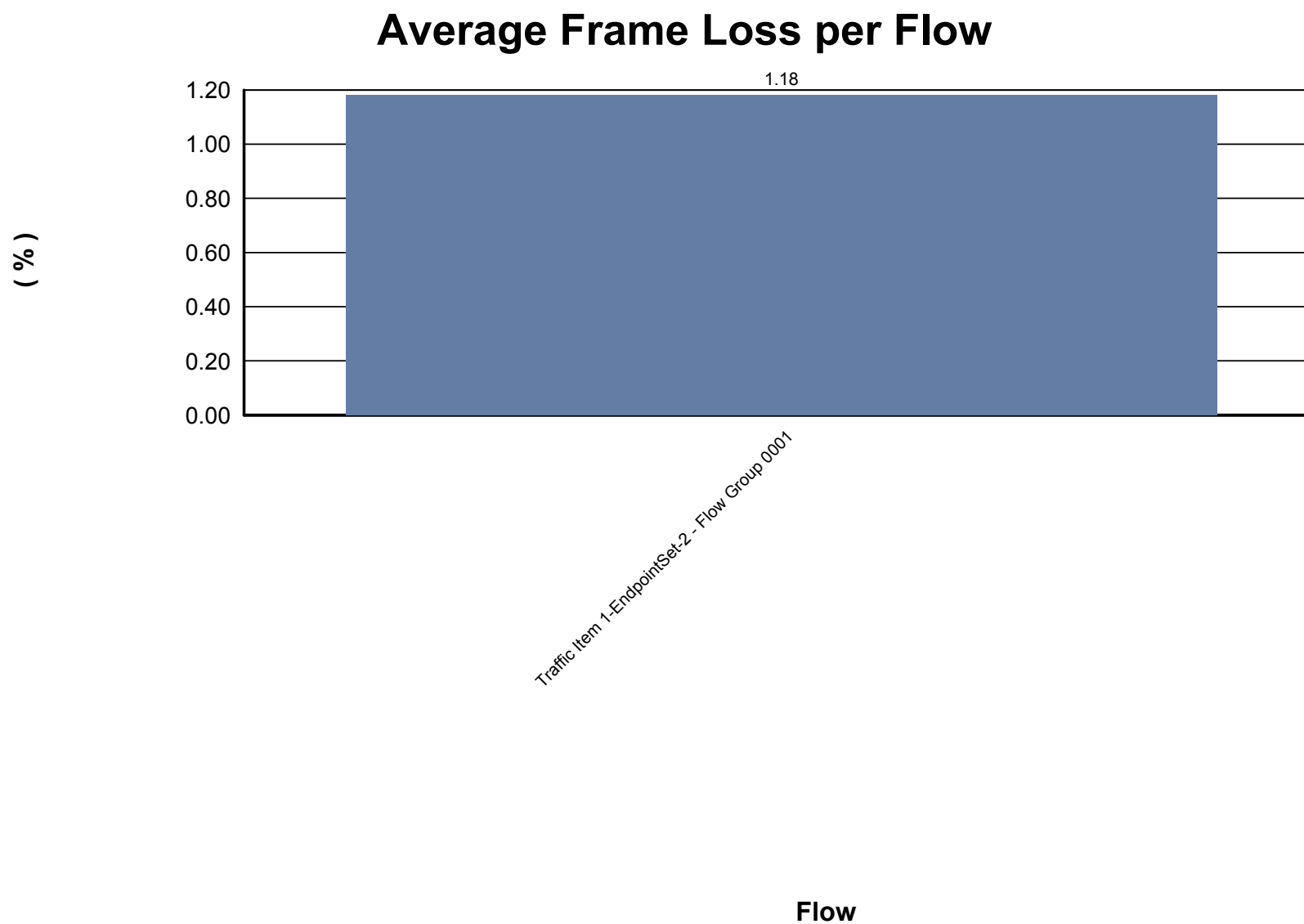
Flow

RFC2544 - Throughput/Latency - Aggregated Graph

Aggregated Latency

- Minimum
- Average
- Maximum
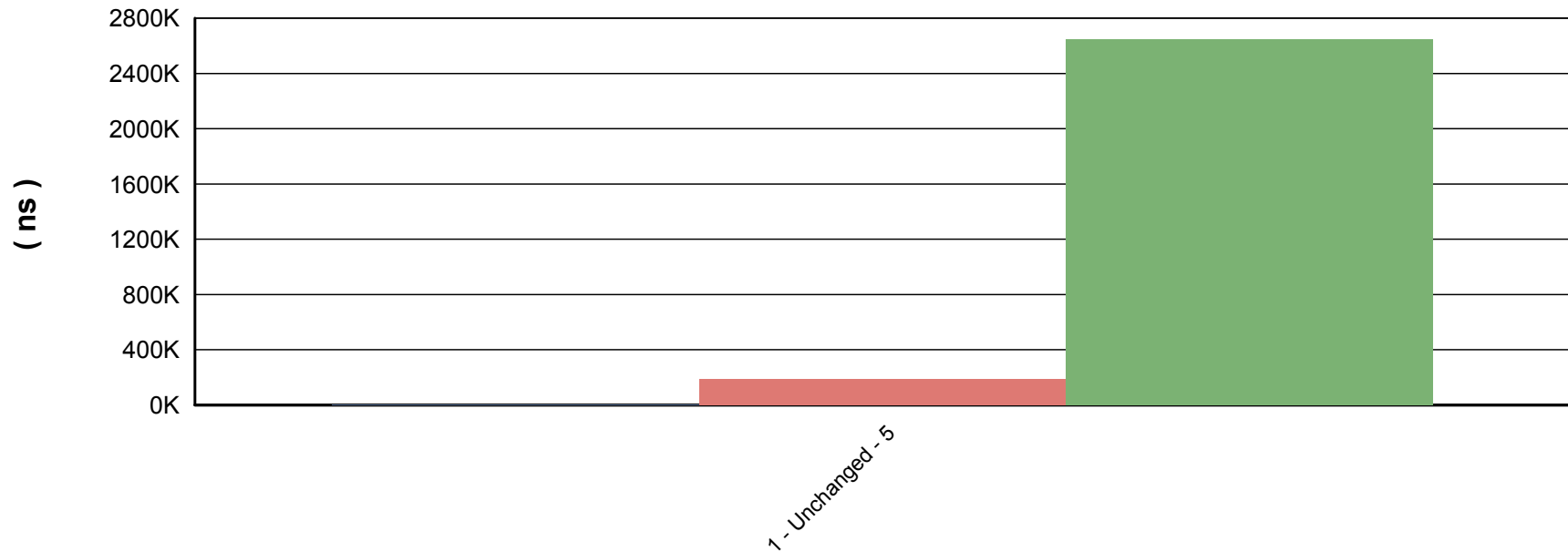
Trial - Framesize - Iteration

RFC2544 - Throughput/Latency - Per Flow Graph

Tx / Rx Frame Count

Tx Count
Rx Count
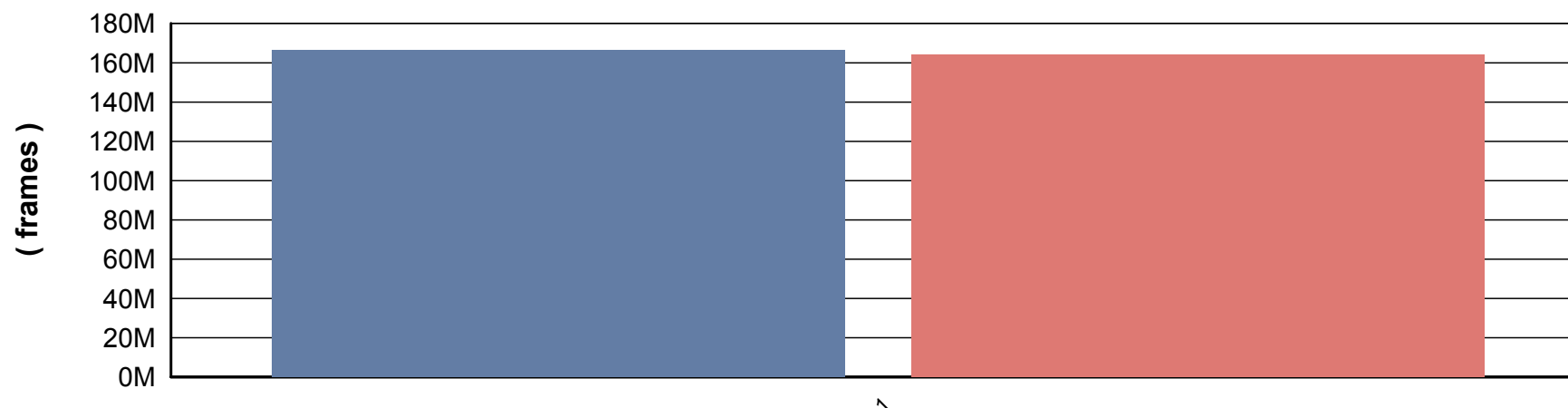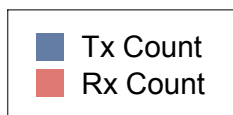
Trial

RFC2544 - Throughput/Latency - Iteration Graph

Aggregated Frame Loss (%)

Trial - Frame Size - Iteration
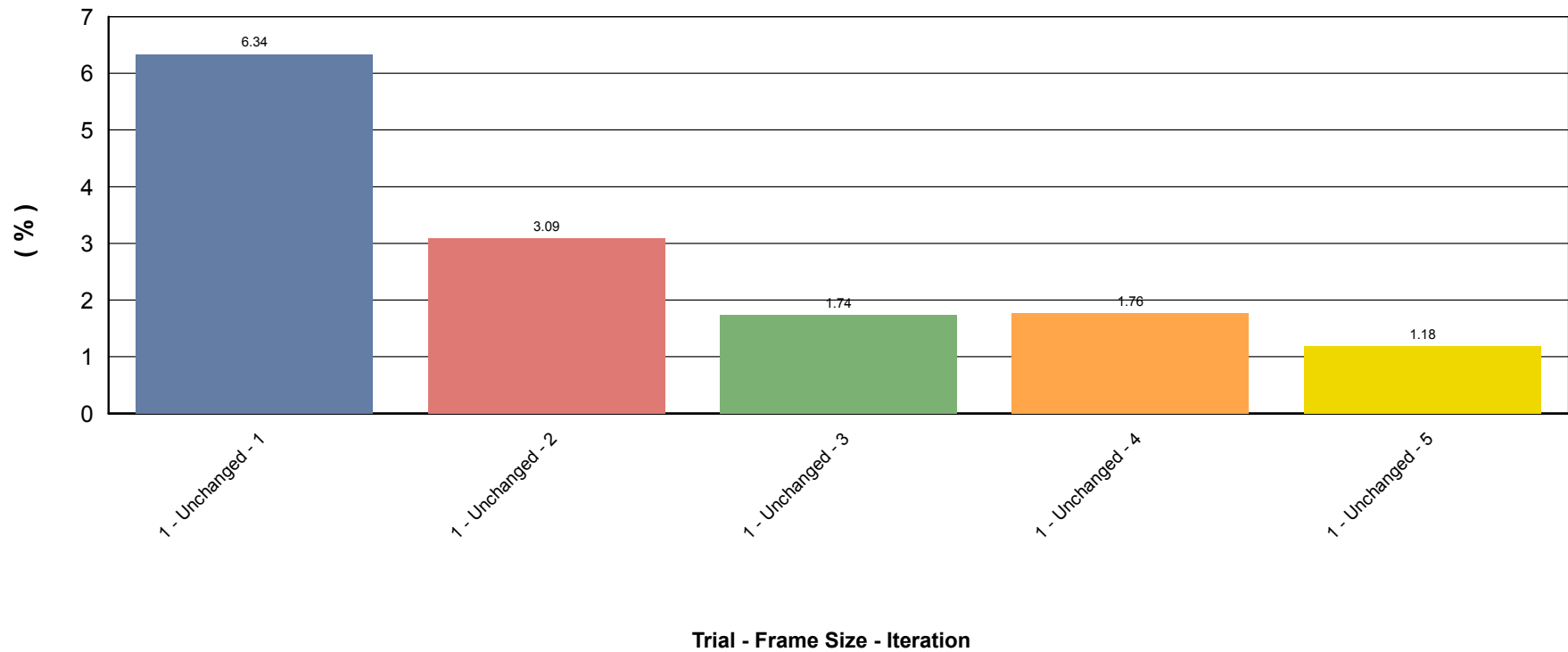
RFC2544 - Throughput/Latency - Iteration Graph

Tx / Rx Frames per Frame Size

Trial - Frame Size

RFC2544 - Throughput/Latency - Iteration Graph
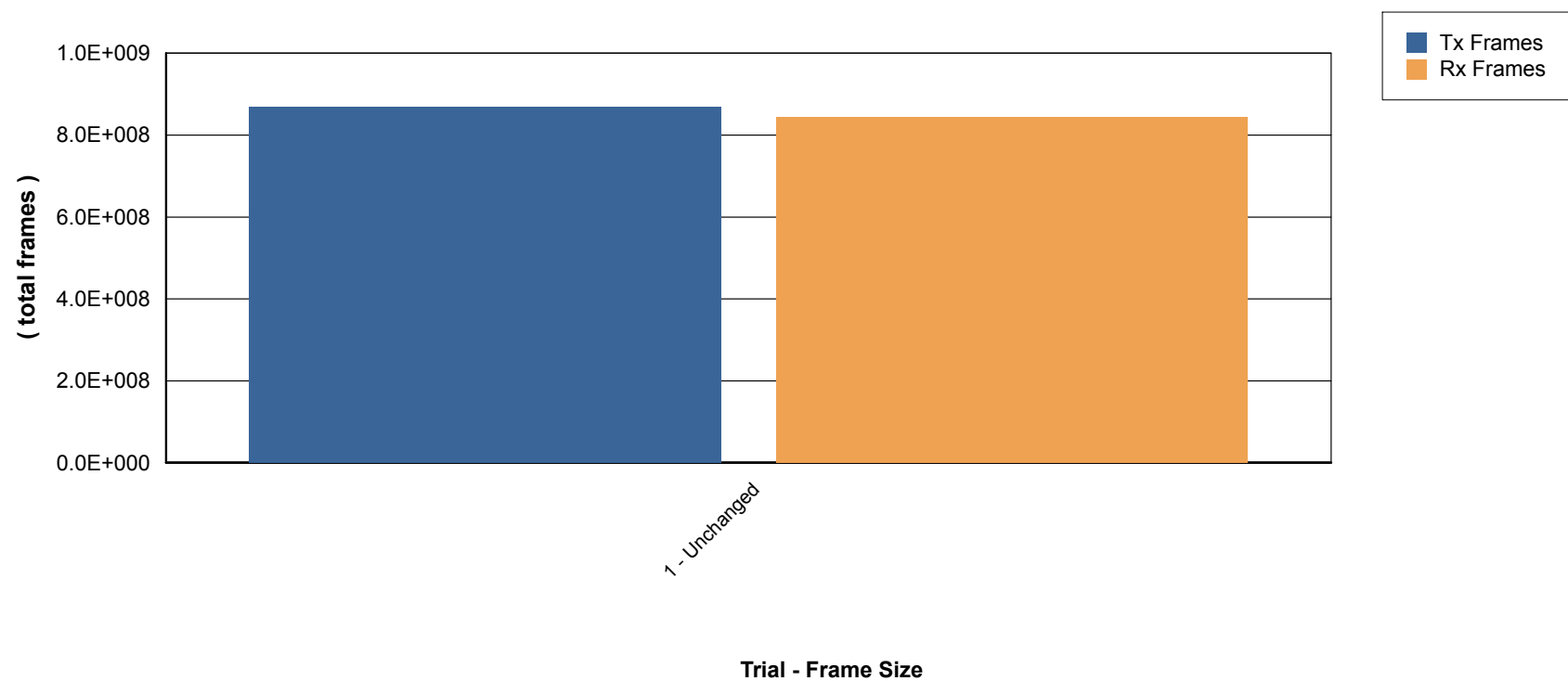
Latency per frame size
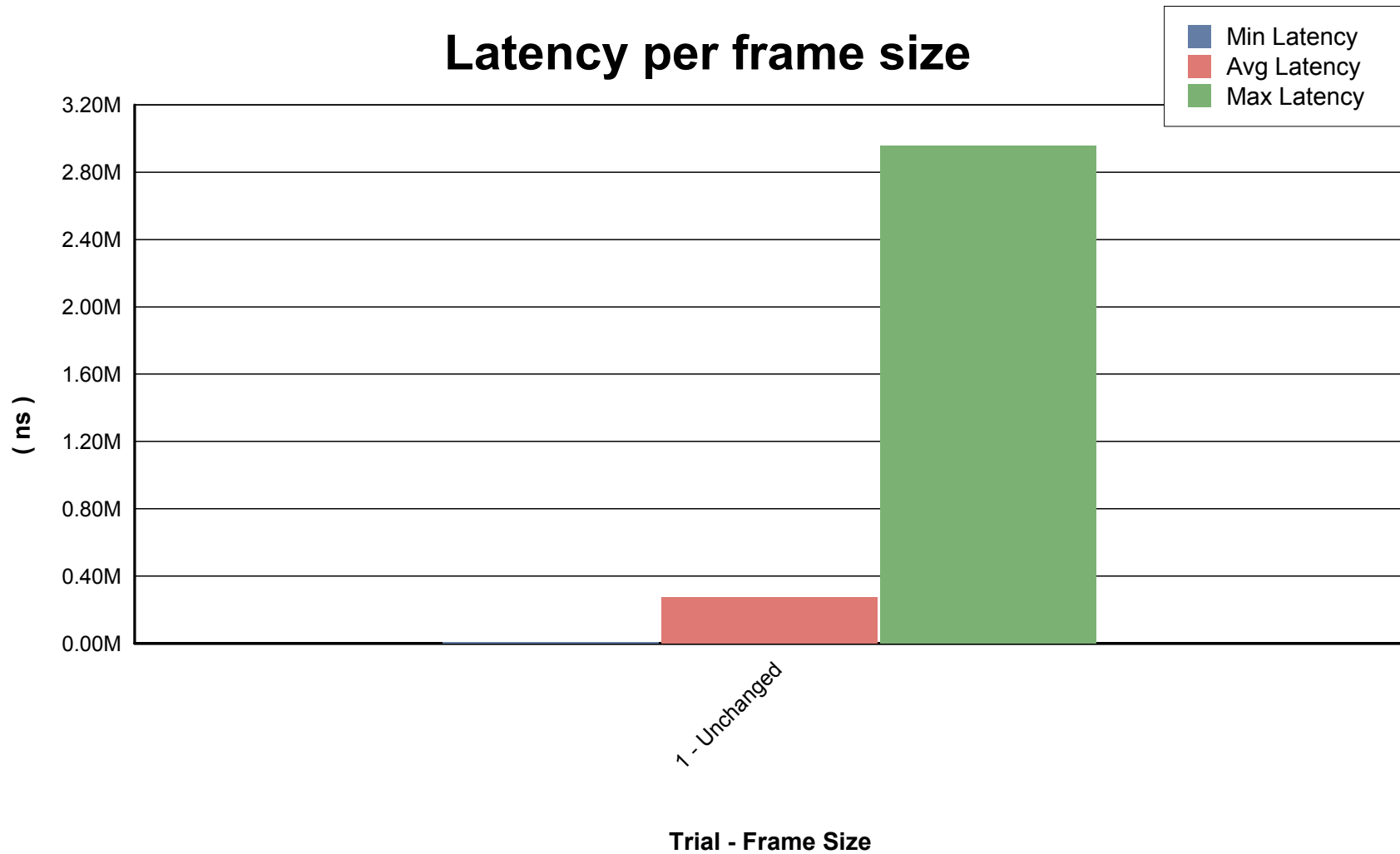
Trial - Frame Size

RFC2544 - Throughput/Latency - Aggregated Results

Trial / Framesize / Iteration	Agg L2 Throughput				Agg L1 Throughput		Throughput (frames)		Agg Latency		
	AggTx Rate %	Agg Rx Rate			Tx Rate Mbps	Rx Rate Mbps			Min (ns)	Max (ns)	Average (ns)
		%	FPS	Mbps							
Trial: 1 / FS: Unchanged / Iter: 5	90.63	89	8083689.5	7648.807			Tx : 166226194.000 Rx : 164261284.000 Loss : 1964910 Loss% : 1.18		6647	2645900	185118.000

RFC2544 - Throughput/Latency - Per Flow Statistics - Part 1 of 2

Trial / Framesize / Iteration	Tx Port	Rx Port	Flow Group	L2 Throughput				L1 Throughput		Throughput (frames)		
				Tx Rate %	Rx Rate			Tx Rate Mbps	Rx Rate Mbps			
					%	FPS	Mbps					
Trial: 1 / FS: Unchanged / Iter: 5	Ethernet - 001	Ethernet - 002	Traffic Item 1-EndpointSet-2 - Flow Group 0001	90.63	89	8083689.5	7648.81			Tx : 166226194 Rx : 164261284 Loss : 1964910 Loss% : 1.182		

RFC2544 - Throughput/Latency - Per Flow Statistics - Part 2 of 2

Trial / Framesize / Iteration	Tx Port	Rx Port	Flow Group	Min Latency (ns)	Max Latency (ns)	Avg Latency (ns)
Trial: 1 / FS: Unchanged / Iter: 5	Ethernet - 001	Ethernet - 002	Traffic Item 1-EndpointSet-2 - Flow Group 0001	6647	2645900	185118

RFC2544 - Throughput/Latency - Iteration Statistics - Part 1 of 2

Trial / Framesize / Iteration	Tx Port	Rx Port	Flow Group	L2 Throughput				L1 Throughput		Throughput (frames)		
				Tx Rate %	Rx Rate			Tx Rate Mbps	Rx Rate Mbps			
					%	FPS	Mbps					
Trial: 1 / FS: Unchanged / Iter: 1	Ethernet - 001	Ethernet - 002	Traffic Item 1-EndpointSet-2 - Flow Group 0001	100.00	92.42	8443152.4	7891.23			Tx Rx Loss Loss%	: : : :	181937237 170405562 11531675 6.338
Trial: 1 / FS: Unchanged / Iter: 2	Ethernet - 001	Ethernet - 002	Traffic Item 1-EndpointSet-2 - Flow Group 0001	95.00	91.67	8310136.4	7837.28			Tx Rx Loss Loss%	: : : :	178804901 173284532 5520369 3.087
Trial: 1 / FS: Unchanged / Iter: 3	Ethernet - 001	Ethernet - 002	Traffic Item 1-EndpointSet-2 - Flow Group 0001	92.50	90.70	8204017.4	7756.85			Tx Rx Loss Loss%	: : : :	174243072 171214891 3028181 1.738
Trial: 1 / FS: Unchanged / Iter: 4	Ethernet - 001	Ethernet - 002	Traffic Item 1-EndpointSet-2 - Flow Group 0001	91.25	89.48	8091731.9	7653.32			Tx Rx Loss Loss%	: : : :	167645073 164693549 2951524 1.761
Trial: 1 / FS: Unchanged / Iter: 5	Ethernet - 001	Ethernet - 002	Traffic Item 1-EndpointSet-2 - Flow Group 0001	90.63	89.42	8083689.5	7648.81			Tx Rx Loss Loss%	: : : :	166226194 164261284 1964910 1.182

RFC2544 - Throughput/Latency - Iteration Statistics - Part 2 of 2

Trial / Framesize / Iteration	Tx Port	Rx Port	Flow Group	Min Latency (ns)	Max Latency (ns)	Avg Latency (ns)
Trial: 1 / FS: Unchanged / Iter: 1	Ethernet - 001	Ethernet - 002	Traffic Item 1-EndpointSet-2 - Flow Group 0001	10365	2631420	490714.00
Trial: 1 / FS: Unchanged / Iter: 2	Ethernet - 001	Ethernet - 002	Traffic Item 1-EndpointSet-2 - Flow Group 0001	7025	2958762	273337.00
Trial: 1 / FS: Unchanged / Iter: 3	Ethernet - 001	Ethernet - 002	Traffic Item 1-EndpointSet-2 - Flow Group 0001	6640	2700970	217065.00
Trial: 1 / FS: Unchanged / Iter: 4	Ethernet - 001	Ethernet - 002	Traffic Item 1-EndpointSet-2 - Flow Group 0001	6847	2778367	209062.00
Trial: 1 / FS: Unchanged / Iter: 5	Ethernet - 001	Ethernet - 002	Traffic Item 1-EndpointSet-2 - Flow Group 0001	6647	2645900	185118.00

Theoretical maximum Frame Rates (frames/second) for different frame sizes (bytes)

Speed	64	128	256	512	1024	1280	1518
10 Mbps	14881	8446	4529	2350	1198	962	813
100 Mbps	148810	84460	45290	23497	11973	9616	8128
1000 Mbps	1488096	844595	452899	234963	119732	96154	81275
10 Gbps	14880952	8445946	4528986	2349625	1197318	961539	812744
25 Gbps	37202380	21114864	11322463	5874060	2993295	2403846	2031859
40 Gbps	59523809	33783783	18115942	9398496	4789272	3846153	3250975
100 Gbps	148809523	84459459	45289855	23496240	11973180	9615384	8127438
155 Mbps (Oc - 3)	288000	145116	72840	36491	18263	14614	12324
622 Mbps (Oc - 12)	1152000	580465	291362	145965	73054	58454	49296
2488 Mbps (Oc - 48)	4608000	2321860	1165447	583860	292215	233817	197182
9952 Mbps (Oc - 192)	18432000	9287442	4661790	2335439	1168859	935270	788730