

Summary of Results

Margin Thresholds	
Warning	< 2 %
Critical	< 0 %

Pass	# Failed	# Trials	Test Name	Worst Actual	Worst Margin	Spec Range
✔	0	2	Lane 0 - Eye Diagram Test	0.000	50.0 %	-500 m <= VALUE <= 500 m
✔	0	2	Lane 1 - Eye Diagram Test	0.000	50.0 %	-500 m <= VALUE <= 500 m
✔	0	3	Lane 0 - Total Jitter Test (High BitRate)	105.300 mUI	74.9 %	VALUE <= 420.000 mUI
✔	0	3	Lane 1 - Total Jitter Test (High BitRate)	152.500 mUI	63.7 %	VALUE <= 420.000 mUI
✔	0	3	Lane 0 - Non-ISI Jitter Test (High BitRate)	67.0000 mUI	75.7 %	VALUE <= 276.0000 mUI
✔	0	3	Lane 1 - Non-ISI Jitter Test (High BitRate)	77.1000 mUI	72.1 %	VALUE <= 276.0000 mUI
✖	2	2	Lane 0 - Non-PreEmphasis Level Test (Swing 2/ Swing 1)	20 µdB	-2.0 %	100.0 mdB <= VALUE <= 5.1000 dB
✖	2	2	Lane 1 - Non-PreEmphasis Level Test (Swing 2/ Swing 1)	-4.2 mdB	-2.1 %	100.0 mdB <= VALUE <= 5.1000 dB
✔	0	6	Lane 0 - Pre-Emphasis Level Test (Pre-emphasis 0)	-474 mdB	8.4 %	-8.400 dB <= VALUE <= 250 mdB
✔	0	6	Lane 1 - Pre-Emphasis Level Test (Pre-emphasis 0)	-1.138 dB	16.0 %	-8.400 dB <= VALUE <= 250 mdB
✔	0	1	Lane 0/ Lane 1 - Inter Pair Skew Test	20.2809 UI	43.0 %	18.0000 UI <= VALUE <= 22.0000 UI
✔	0	2	Lane 0 - Main Link Frequency Compliance	-3.975 ppm	5.4 %	-5.300000 kppm <= VALUE <= 300.000 ppm
✔	0	2	Lane 1 - Main Link Frequency Compliance	-3.951 ppm	5.4 %	-5.300000 kppm <= VALUE <= 300.000 ppm
✖	6	6	Lane 0 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0)	2 mdB	-99.9 %	VALUE >= 2.000 dB
✖	6	6	Lane 1 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0)	-6 mdB	-100.3 %	VALUE >= 2.000 dB
✔	0	2	Lane 0 - Non-Transition Voltage Range Measurement (Swing 2)	1.001	43.0 %	VALUE > 700 m
✔	0	2	Lane 1 - Non-Transition Voltage Range Measurement (Swing 2)	999 m	42.7 %	VALUE > 700 m
✖	2	2	Lane 0 - Non-PreEmphasis Level Test (Swing 1/ Swing 0)	-5.1 mdB	-15.5 %	800.0 mdB <= VALUE <= 6.0000 dB
✖	2	2	Lane 1 - Non-PreEmphasis Level Test (Swing 1/ Swing 0)	-10.8 mdB	-15.6 %	800.0 mdB <= VALUE <= 6.0000 dB
✖	4	4	Lane 0 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2)	2 mdB	-99.9 %	VALUE >= 1.600 dB
✖	4	4	Lane 1 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2)	-7 mdB	-100.4 %	VALUE >= 1.600 dB
✔	0	2	Lane 0 - Non-Transition Voltage Range Measurement (Swing 1)	1.00	42.9 %	VALUE > 700 m
✔	0	2	Lane 1 - Non-Transition Voltage Range Measurement (Swing 1)	998 m	42.6 %	VALUE > 700 m
✖	2	2	Lane 0 - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3)	4 mdB	-99.8 %	VALUE >= 1.600 dB
✖	2	2	Lane 1 - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3)	-6 mdB	-100.4 %	VALUE >= 1.600 dB
✔	0	2	Lane 0 - Non-Transition Voltage Range Measurement (Swing 0)	999 m	42.7 %	VALUE > 700 m
✔	0	2	Lane 1 - Non-Transition Voltage Range Measurement (Swing 0)	997 m	42.4 %	VALUE > 700 m
✔	0	3	Lane 0 - Total Jitter Test (Low BitRate)	67.800 mUI	74.9 %	VALUE <= 270.000 mUI
✔	0	3	Lane 1 - Total Jitter Test (Low BitRate)	71.800 mUI	73.4 %	VALUE <= 270.000 mUI
✔	0	3	Lane 0 - Non-ISI Jitter Test (Low BitRate)	40.4000 mUI	80.8 %	VALUE <= 210.0000 mUI
✔	0	3	Lane 1 - Non-ISI Jitter Test (Low BitRate)	45.4000 mUI	78.4 %	VALUE <= 210.0000 mUI
✔	0	2	Lane 2 - Eye Diagram Test	0.000	50.0 %	-500 m <= VALUE <= 500 m
✔	0	2	Lane 3 - Eye Diagram Test	0.000	50.0 %	-500 m <= VALUE <= 500 m
✔	0	3	Lane 2 - Total Jitter Test (High BitRate)	134.800 mUI	67.9 %	VALUE <= 420.000 mUI
✔	0	3	Lane 3 - Total Jitter Test (High BitRate)	144.200 mUI	65.7 %	VALUE <= 420.000 mUI
✔	0	3	Lane 2 - Non-ISI Jitter Test (High BitRate)	85.8000 mUI	68.9 %	VALUE <= 276.0000 mUI
✔	0	3	Lane 3 - Non-ISI Jitter Test (High BitRate)	67.3000 mUI	75.6 %	VALUE <= 276.0000 mUI
✖	2	2	Lane 2 - Non-PreEmphasis Level Test (Swing 2/ Swing 1)	-6.9 mdB	-2.1 %	100.0 mdB <= VALUE <= 5.1000 dB
✖	2	2	Lane 3 - Non-PreEmphasis Level Test (Swing 2/ Swing 1)	-11.5 mdB	-2.2 %	100.0 mdB <= VALUE <= 5.1000 dB
✔	0	6	Lane 2 - Pre-Emphasis Level Test (Pre-emphasis 0)	-589 mdB	9.7 %	-8.400 dB <= VALUE <= 250 mdB
✔	0	6	Lane 3 - Pre-Emphasis Level Test (Pre-emphasis 0)	-901 mdB	13.3 %	-8.400 dB <= VALUE <= 250 mdB
✔	0	1	Lane 2/ Lane 3 - Inter Pair Skew Test	20.2698 UI	43.3 %	18.0000 UI <= VALUE <= 22.0000 UI
✔	0	2	Lane 2 - Main Link Frequency Compliance	-1.778 ppm	5.4 %	-5.300000 kppm <= VALUE <= 300.000 ppm
✔	0	2	Lane 3 - Main Link Frequency Compliance	-1.840 ppm	5.4 %	-5.300000 kppm <= VALUE <= 300.000 ppm
✖	6	6	Lane 2 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0)	-7 mdB	-100.4 %	VALUE >= 2.000 dB
✖	6	6	Lane 3 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0)	-20 mdB	-101.0 %	VALUE >= 2.000 dB
✔	0	2	Lane 2 - Non-Transition Voltage Range Measurement (Swing 2)	999 m	42.7 %	VALUE > 700 m
✔	0	2	Lane 3 - Non-Transition Voltage Range Measurement (Swing 2)	999 m	42.7 %	VALUE > 700 m
✖	2	2	Lane 2 - Non-PreEmphasis Level Test (Swing 1/ Swing 0)	-5.2 mdB	-15.5 %	800.0 mdB <= VALUE <= 6.0000 dB
✖	2	2	Lane 3 - Non-PreEmphasis Level Test (Swing 1/ Swing 0)	-9.6 mdB	-15.6 %	800.0 mdB <= VALUE <= 6.0000 dB
✖	4	4	Lane 2 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2)	-6 mdB	-100.4 %	VALUE >= 1.600 dB
✖	4	4	Lane 3 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2)	-10 mdB	-100.6 %	VALUE >= 1.600 dB
✔	0	2	Lane 2 - Non-Transition Voltage Range Measurement (Swing 1)	1.001	43.0 %	VALUE > 700 m
✔	0	2	Lane 3 - Non-Transition Voltage Range Measurement (Swing 1)	999 m	42.7 %	VALUE > 700 m
✖	2	2	Lane 2 - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3)	-10 mdB	-100.6 %	VALUE >= 1.600 dB
✖	2	2	Lane 3 - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3)	-24 mdB	-101.5 %	VALUE >= 1.600 dB
✔	0	2	Lane 2 - Non-Transition Voltage Range Measurement (Swing 0)	1.000	42.9 %	VALUE > 700 m
✔	0	2	Lane 3 - Non-Transition Voltage Range Measurement (Swing 0)	999 m	42.7 %	VALUE > 700 m
✔	0	3	Lane 2 - Total Jitter Test (Low BitRate)	68.700 mUI	74.6 %	VALUE <= 270.000 mUI
✔	0	3	Lane 3 - Total Jitter Test (Low BitRate)	68.700 mUI	74.6 %	VALUE <= 270.000 mUI
✔	0	3	Lane 2 - Non-ISI Jitter Test (Low BitRate)	47.1000 mUI	77.6 %	VALUE <= 210.0000 mUI
✔	0	3	Lane 3 - Non-ISI Jitter Test (Low BitRate)	44.7000 mUI	78.7 %	VALUE <= 210.0000 mUI
✔	0	1	Lane 0 - Intra Pair Skew Test	9.13 ps	69.6 %	VALUE <= 30.00 ps
✔	0	1	Lane 1 - Intra Pair Skew Test	7.36 ps	75.5 %	VALUE <= 30.00 ps
✔	0	1	Lane 2 - Intra Pair Skew Test	2.15 ps	92.8 %	VALUE <= 30.00 ps
✔	0	1	Lane 3 - Intra Pair Skew Test	5.33 ps	82.2 %	VALUE <= 30.00 ps

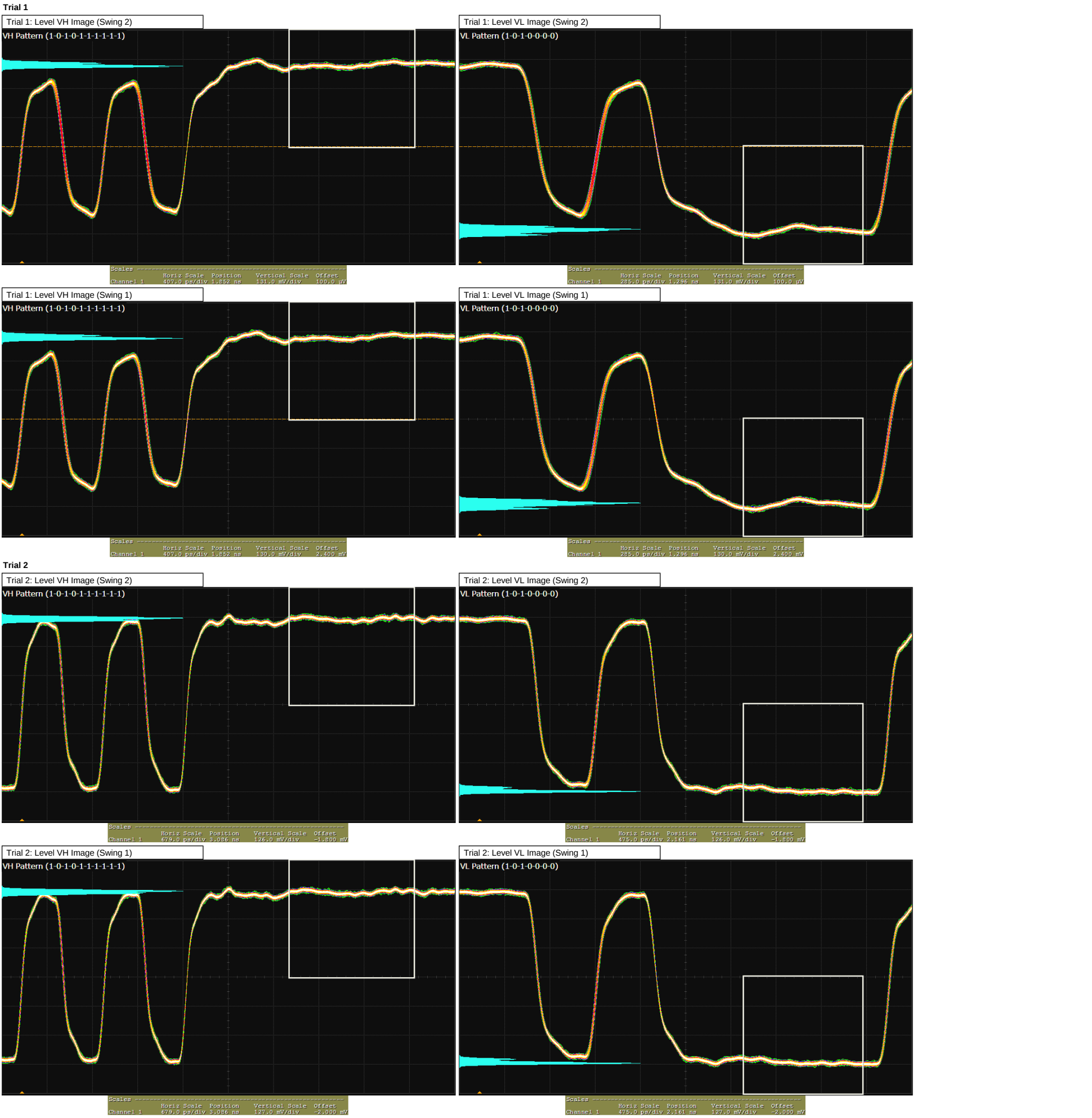
Lane 0 - Non-PreEmphasis Level Test (Swing 2/ Swing 1)

Reference: DisplayPort CTS Sec. 3.2: Table 3.10 VESA DisplayPort Standard specification

Test Summary: FAIL		Test Description: To evaluate the waveform peak differential amplitude to ensure signal is neither over, nor under driven.					
Test Limits: [100.0 mdB to 5.1000 dB]		Lane 0 Non-PreEmphasis Level Test (Swing 2/Swing 1) (Worst of 2 Trials) 20 µdB		# Trials Run: 2		Worst Trial: Trial 1	

Overall Summary + details of 2 worst trials

Trial	Actual Value	Margin	Level VH Image (Swing 2)	Level VL Image (Swing 2)	Level VH Image (Swing 1)	Level VL Image (Swing 1)	Number of UI	VH Trigger Pattern	VL Trigger Pattern	VTop (Swing 2)	VBase (Swing 2)	VSwing (Swing 2)	VTop (Swing 1)	VBase (Swing 1)	VSwing (Swing 1)	Test Mode	Test Layer	Test Condition	DUT Type	Test Type	Connection Type	BitRate	Level	PreEmphasis	SSC
Avg	170.5 µdB	-1.997 %																							
StdDev	219.2 µdB	4.243 m%																							
Range	310.0 µdB	6.000 m%																							
Min	15.53 µdB	-2.000 %																							
Max	325.5 µdB	-1.994 %																							
Sum	341.1 µdB	-3.994 %																							
Trial 1 (Worst)	20 µdB	-2.0%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	366.859 mV	-376.854 mV	743.712 mV	367.114 mV	-376.597 mV	743.711 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	2.7 Gbps	Swing 2	Pre-emphasis 0	SSC Disabled
Trial 2	300 µdB	-2.0%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	369.370 mV	-374.548 mV	743.918 mV	369.426 mV	-374.465 mV	743.890 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	1.62 Gbps	Swing 2	Pre-emphasis 0	SSC Disabled



Lane 1 - Non-PreEmphasis Level Test (Swing 2/ Swing 1)

Reference: DisplayPort CTS Sec. 3.2: Table 3.10 VESA DisplayPort Standard specification

Test Summary: FAIL

Test Description: To evaluate the waveform peak differential amplitude to ensure signal is neither over, nor under driven.

Test Limits: [100.0 mdB to 5.1000 dB]

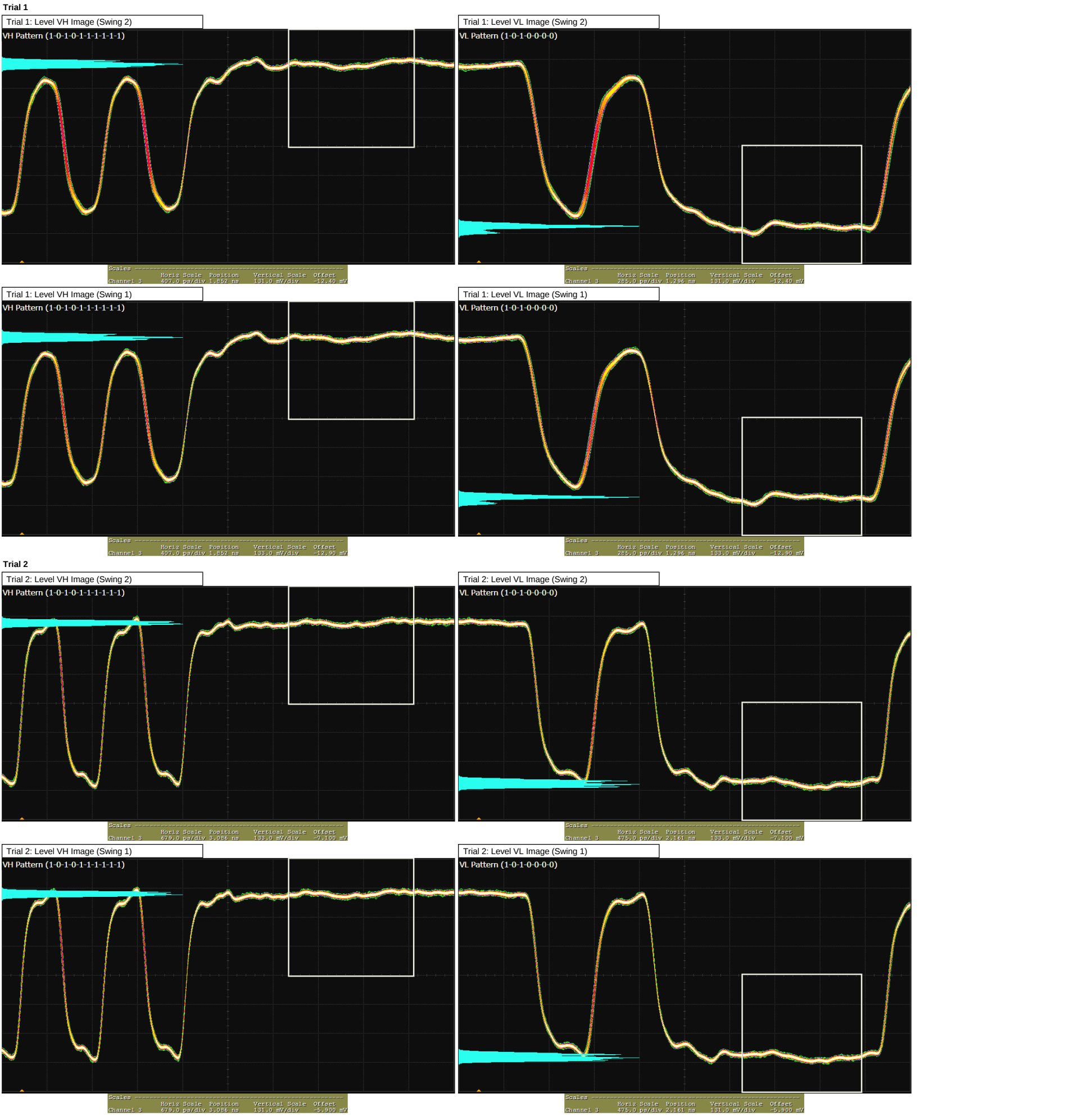
Lane 1 Non-PreEmphasis Level Test (Swing 2/Swing 1) (Worst of 2 Trials) -4.2 mdB

Trials Run: 2

Worst Trial: Trial 2

Overall Summary + details of 2 worst trials

	Trial	Actual Value	Margin	Level VH Image (Swing 2)	Level VL Image (Swing 2)	Level VH Image (Swing 1)	Level VL Image (Swing 1)	Number of UI	VH Trigger Pattern	VL Trigger Pattern	VTop (Swing 2)	VBase (Swing 2)	VSwing (Swing 2)	VTop (Swing 1)	VBase (Swing 1)	VSwing (Swing 1)	Test Mode	Test Layer	Test Condition	DUT Type	Test Type	Connection Type	BitRate	Level	PreEmphasis	SSC
	Avg	666.2 μ B	-1.987 %																							
	StdDev	6.882 mdB	137.2 m%																							
	Range	9.733 mdB	194.0 m%																							
	Min	-4.200 mdB	-2.084 %																							
	Max	5.533 mdB	-1.890 %																							
	Sum	1.332 mdB	-3.974 %																							
	Trial 1	5.5 mdB	-1.9%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	358.733 mV	-376.115 mV	734.848 mV	357.882 mV	-376.499 mV	734.380 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	2.7 Gbps	Swing 2	Pre-emphasis 0	SSC Disabled
	Trial 2 (Worst)	-4.2 mdB	-2.1%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	360.873 mV	-375.131 mV	736.004 mV	361.127 mV	-375.233 mV	736.360 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	1.62 Gbps	Swing 2	Pre-emphasis 0	SSC Disabled



Trial 2

Trial 2: Level VH Image (Swing 2)

VH Pattern (1-0-1-0-1-1-1-1-1)

Scales
Channel 3 Horiz Scale Position Vertical Scale Offset
679.0 ps/div 3.086 ns 135.0 mV/div -7.100 mV

Trial 2: Level VL Image (Swing 2)

VL Pattern (1-0-1-0-0-0-0-0)

Scales
Channel 3 Horiz Scale Position Vertical Scale Offset
495.0 ps/div 2.161 ns 135.0 mV/div -7.100 mV

Trial 2: Level VH Image (Swing 1)

VH Pattern (1-0-1-0-1-1-1-1-1)

Scales
Channel 3 Horiz Scale Position Vertical Scale Offset
679.0 ps/div 3.086 ns 131.0 mV/div -5.500 mV

Trial 2: Level VL Image (Swing 1)

VL Pattern (1-0-1-0-0-0-0-0)

Scales
Channel 3 Horiz Scale Position Vertical Scale Offset
575.0 ps/div 2.161 ns 131.0 mV/div -5.500 mV

Lane 0 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0)

Reference: DisplayPort CTS Sec. 3.3: Table 3.10 VESA DisplayPort Standard specification

Test Summary:

FAIL

Test Description: This test evaluates the effect of pre-emphasis of the source waveform measuring peak differential amplitude assuring accuracy of pre-emphasis setting.

Test Limits: >= 2.000 dB

PreEmphasis (Pre-emphasis 1) (Worst of 6 Trials) 2 mdB

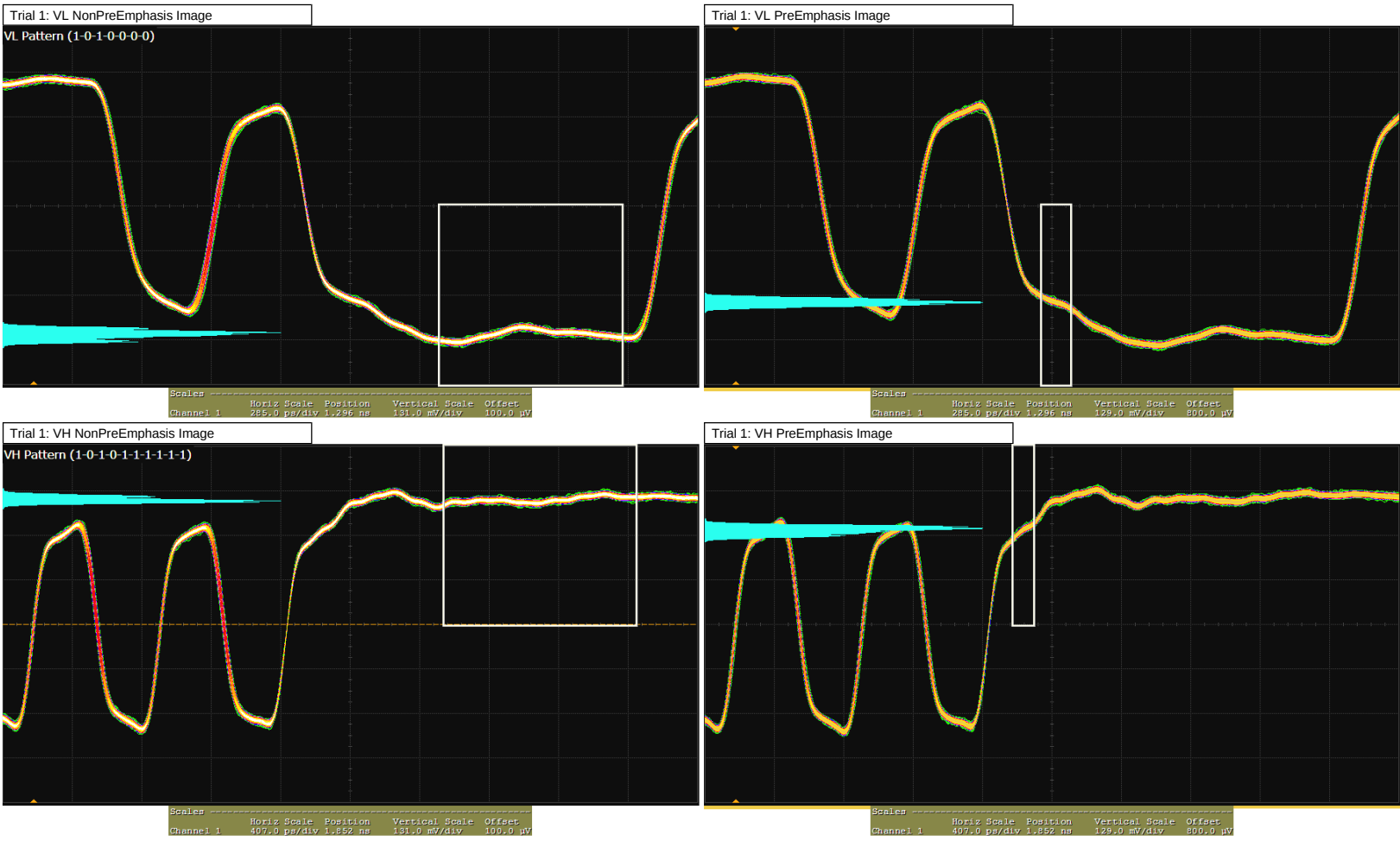
Trials Run: 6

Worst Trial: Trial 3

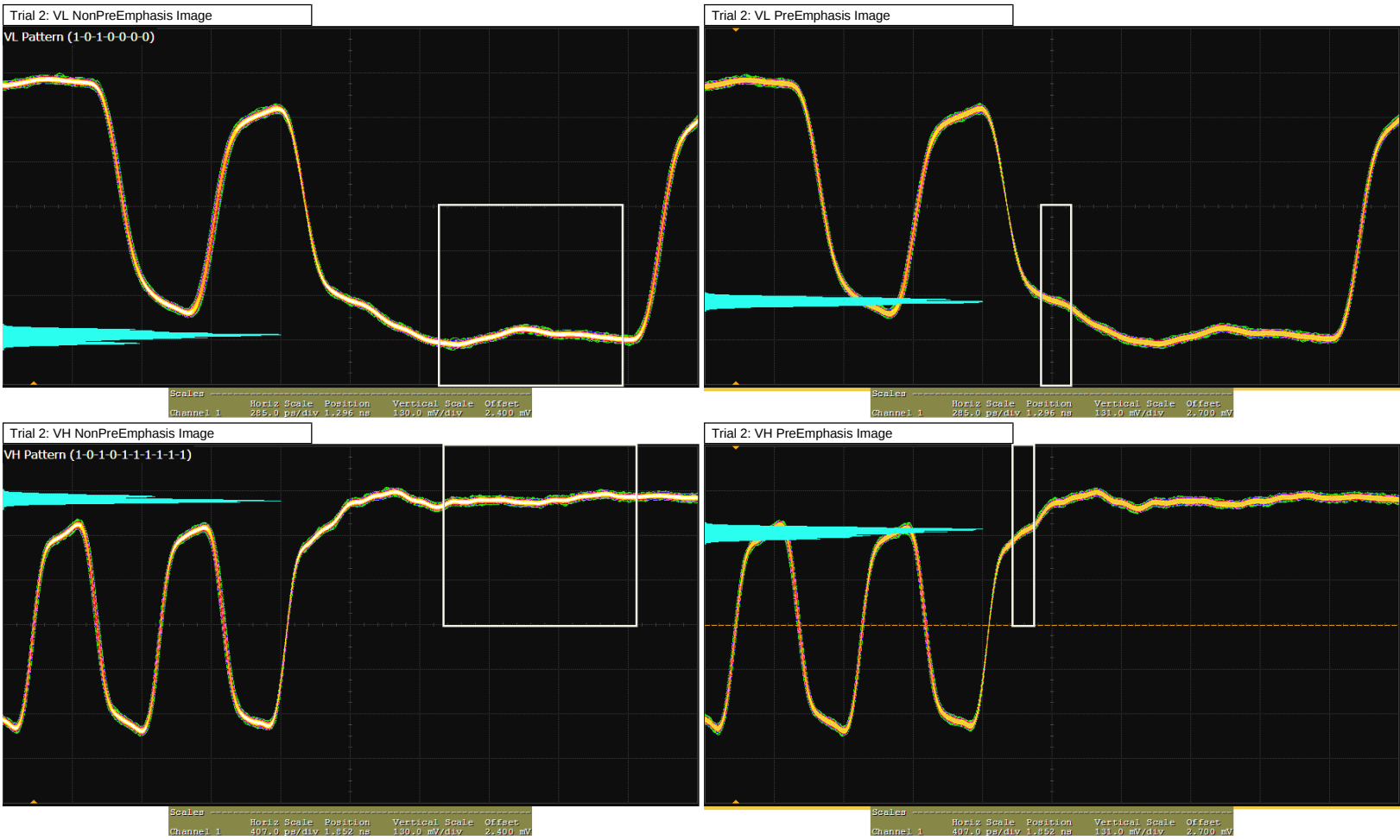
Overall Summary + details of 6 worst trials

Trial	Actual Value	Margin	VL NonPreEmphasis Image	VL PreEmphasis Image	VH NonPreEmphasis Image	VH PreEmphasis Image	Number of UI	VSwing PreEmphasis (Transition Bit)	VSwing PreEmphasis (Non Transition Bit)	PreEmphasis Result	BitRate	Level	PreEmphasis	SSC
Avg	8.863 mdB	-99.56 %												
StdDev	4.041 mdB	193.4 m%												
Range	10.52 mdB	500.0 m%												
Min	1.960 mdB	-99.90 %												
Max	12.48 mdB	-99.40 %												
Sum	53.18 mdB	-597.4 %												
Trial 1	9 mdB	-99.6%	(See image)	(See image)	(See image)	(See image)	1000	551.419 mV	745.236 mV	-2.616 dB	2.7 Gbps	Swing 2	Pre-emphasis 1	SSC Disabled
Trial 2	12 mdB	-99.4%	(See image)	(See image)	(See image)	(See image)	1000	550.980 mV	744.132 mV	-2.610 dB	2.7 Gbps	Swing 1	Pre-emphasis 1	SSC Disabled
Trial 3 (Worst)	2 mdB	-99.9%	(See image)	(See image)	(See image)	(See image)	1000	551.725 mV	744.104 mV	-2.598 dB	2.7 Gbps	Swing 0	Pre-emphasis 1	SSC Disabled
Trial 4	11 mdB	-99.5%	(See image)	(See image)	(See image)	(See image)	1000	705.183 mV	744.388 mV	-470 mdB	1.62 Gbps	Swing 2	Pre-emphasis 1	SSC Disabled
Trial 5	7 mdB	-99.7%	(See image)	(See image)	(See image)	(See image)	1000	704.614 mV	743.893 mV	-471 mdB	1.62 Gbps	Swing 1	Pre-emphasis 1	SSC Disabled
Trial 6	12 mdB	-99.4%	(See image)	(See image)	(See image)	(See image)	1000	704.993 mV	743.478 mV	-462 mdB	1.62 Gbps	Swing 0	Pre-emphasis 1	SSC Disabled

Trial 1

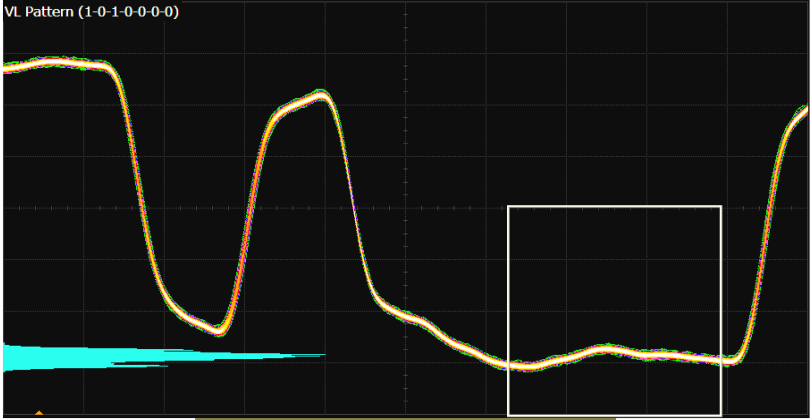


Trial 2

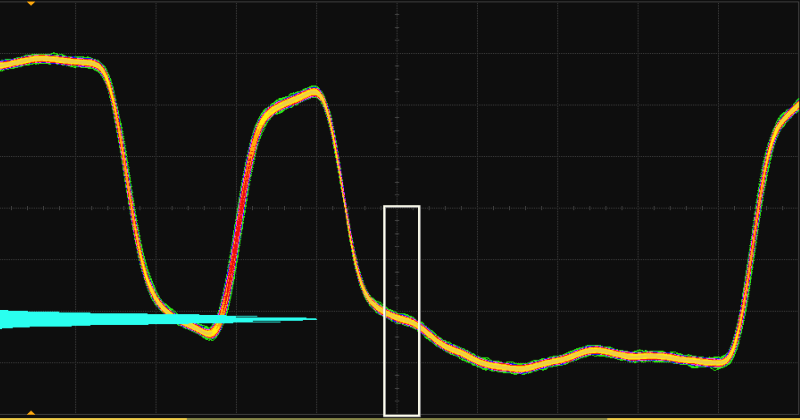


Trial 3

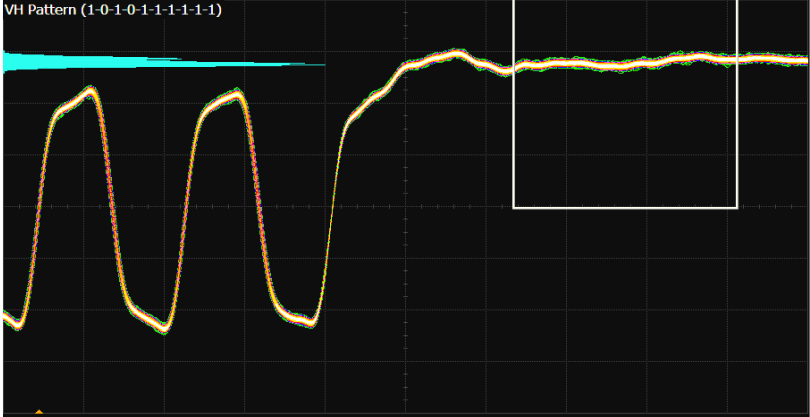
Trial 3: VL NonPreEmphasis Image



Trial 3: VL PreEmphasis Image



Trial 3: VH NonPreEmphasis Image

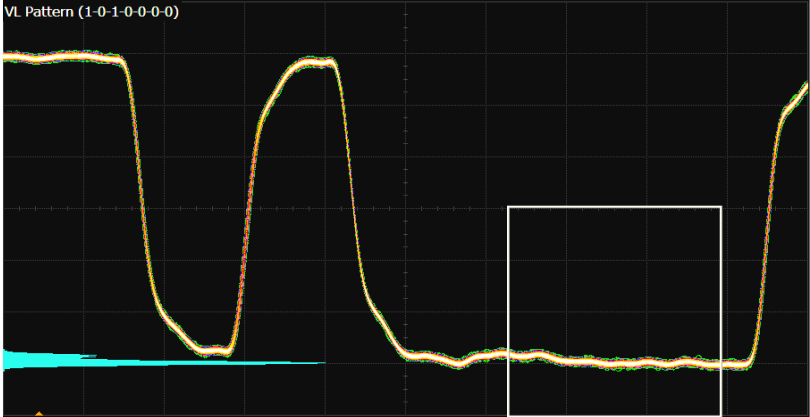


Trial 3: VH PreEmphasis Image

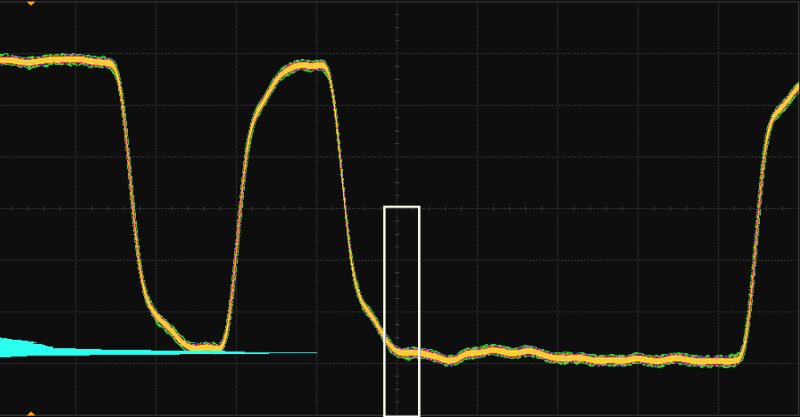


Trial 4

Trial 4: VL NonPreEmphasis Image



Trial 4: VL PreEmphasis Image



Trial 4: VH NonPreEmphasis Image

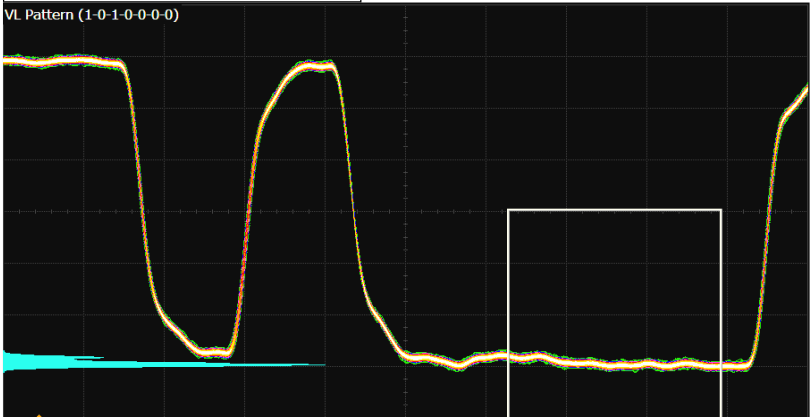


Trial 4: VH PreEmphasis Image

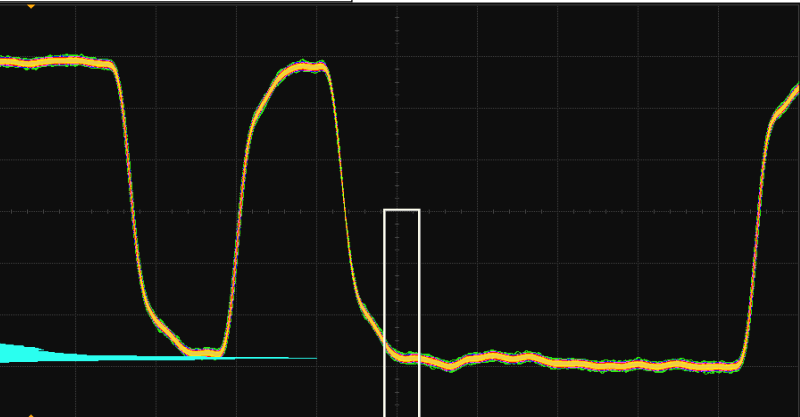


Trial 5

Trial 5: VL NonPreEmphasis Image



Trial 5: VL PreEmphasis Image



Trial 5: VH NonPreEmphasis Image

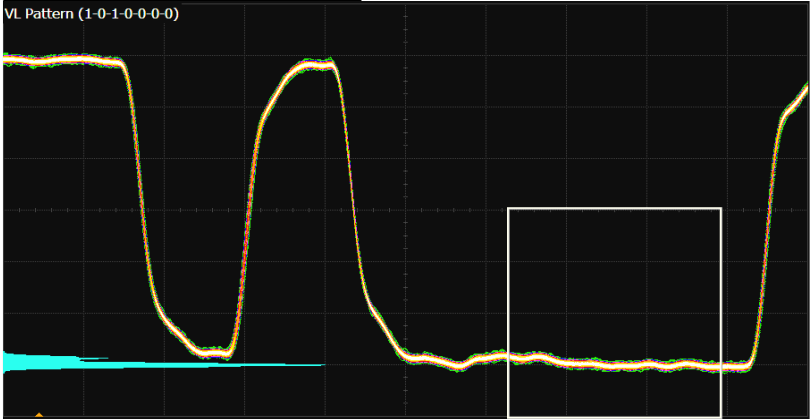


Trial 5: VH PreEmphasis Image

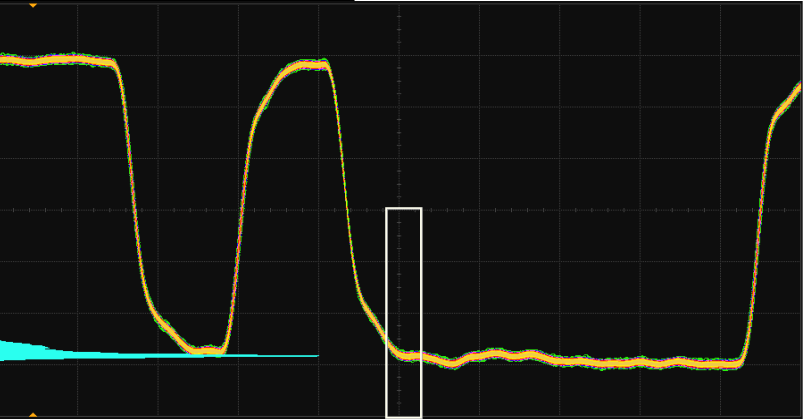


Trial 6

Trial 6: VL NonPreEmphasis Image



Trial 6: VL PreEmphasis Image



Trial 6: VH NonPreEmphasis Image



Trial 6: VH PreEmphasis Image



✖

Lane 1 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0)

Reference: DisplayPort CTS Sec. 3.3: Table 3.10 VESA DisplayPort Standard specification

Test Summary: FAIL

Test Description: This test evaluates the effect of pre-emphasis of the source waveform measuring peak differential amplitude assuring accuracy of pre-emphasis setting.

Test Limits: >= 2.000 dB

PreEmphasis(Pre-emphasis 1) (Worst of 6 Trials) -6 mdB

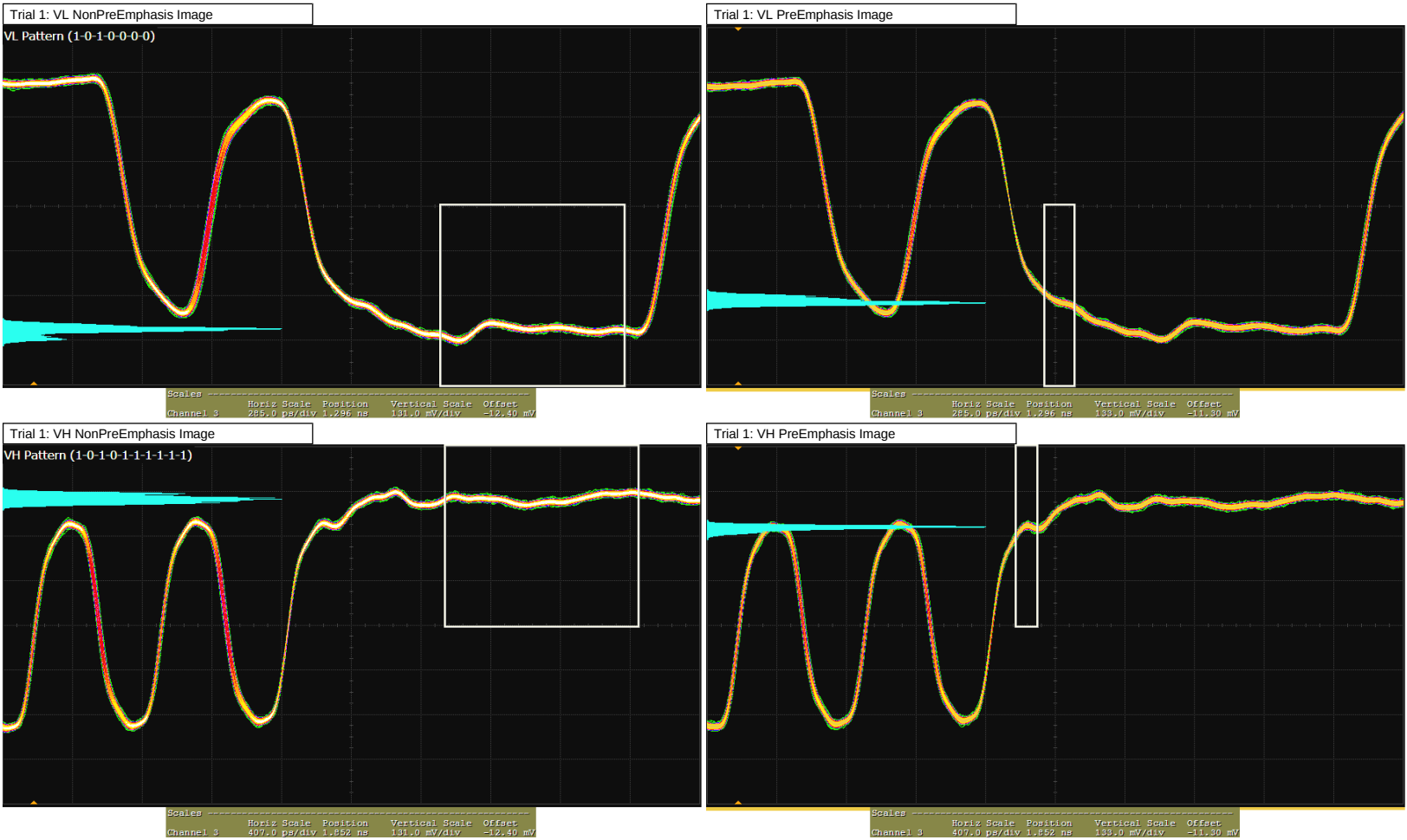
Trials Run: 6

Worst Trial: Trial 3

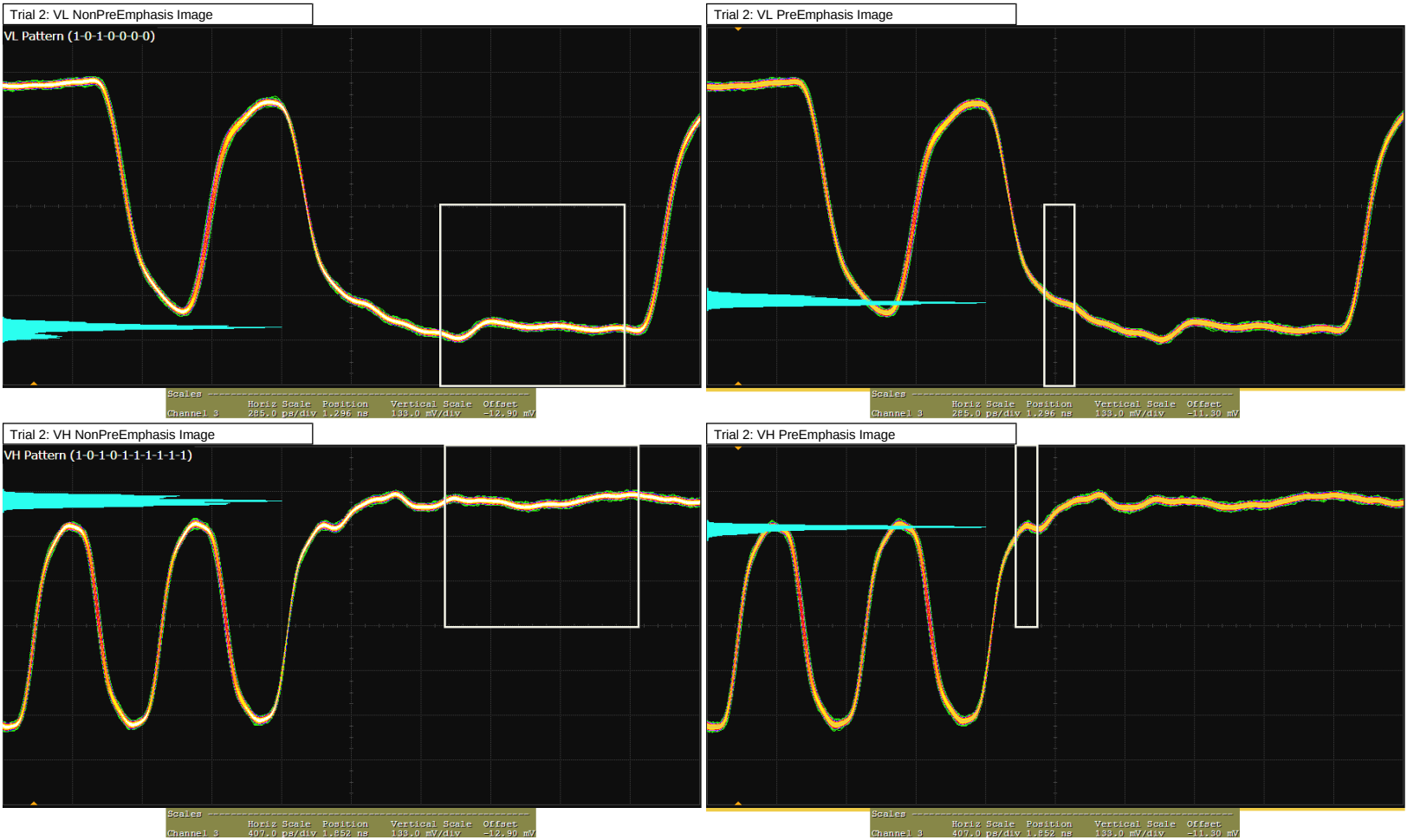
Overall Summary + details of 6 worst trials

Trial	Actual Value	Margin	VL NonPreEmphasis Image	VL PreEmphasis Image	VH NonPreEmphasis Image	VH PreEmphasis Image	Number of UI	VSwing PreEmphasis (Transition Bit)	VSwing PreEmphasis (Non Transition Bit)	PreEmphasis Result	BitRate	Level	PreEmphasis	SSC
Avg	-2.467 mdB	-100.1 %												
StdDev	6.038 mdB	291.1 m%												
Range	15.85 mdB	750.0 m%												
Min	-6.449 mdB	-100.3 %												
Max	9.401 mdB	-99.55 %												
Sum	-14.80 mdB	-600.8 %												
✖ Trial 1	-5 mdB	-100.3%	(See image)	(See image)	(See image)	(See image)	1000	573.278 mV	734.964 mV	-2.158 dB	2.7 Gbps	Swing 2	Pre-emphasis 1	SSC Disabled
✖ Trial 2	9 mdB	-99.6%	(See image)	(See image)	(See image)	(See image)	1000	572.879 mV	734.252 mV	-2.156 dB	2.7 Gbps	Swing 1	Pre-emphasis 1	SSC Disabled
✖ Trial 3 (Worst)	-6 mdB	-100.3%	(See image)	(See image)	(See image)	(See image)	1000	573.012 mV	734.667 mV	-2.159 dB	2.7 Gbps	Swing 0	Pre-emphasis 1	SSC Disabled
✖ Trial 4	-2 mdB	-100.1%	(See image)	(See image)	(See image)	(See image)	1000	644.951 mV	735.375 mV	-1.140 dB	1.62 Gbps	Swing 2	Pre-emphasis 1	SSC Disabled
✖ Trial 5	-5 mdB	-100.3%	(See image)	(See image)	(See image)	(See image)	1000	644.169 mV	734.911 mV	-1.145 dB	1.62 Gbps	Swing 1	Pre-emphasis 1	SSC Disabled
✖ Trial 6	-6 mdB	-100.3%	(See image)	(See image)	(See image)	(See image)	1000	644.444 mV	735.172 mV	-1.144 dB	1.62 Gbps	Swing 0	Pre-emphasis 1	SSC Disabled

Trial 1

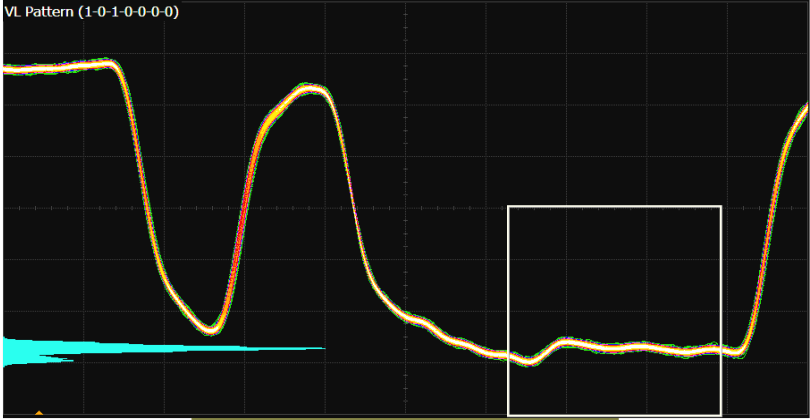


Trial 2



Trial 3

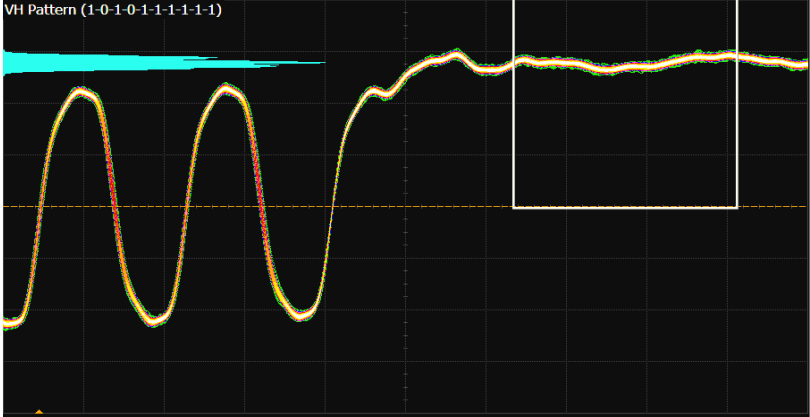
Trial 3: VL NonPreEmphasis Image



Trial 3: VL PreEmphasis Image



Trial 3: VH NonPreEmphasis Image



Trial 3: VH PreEmphasis Image



Trial 4

Trial 4: VL NonPreEmphasis Image



Trial 4: VL PreEmphasis Image



Trial 4: VH NonPreEmphasis Image

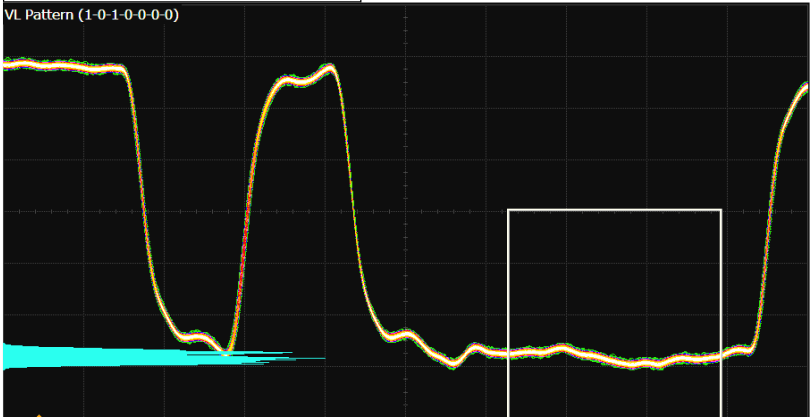


Trial 4: VH PreEmphasis Image

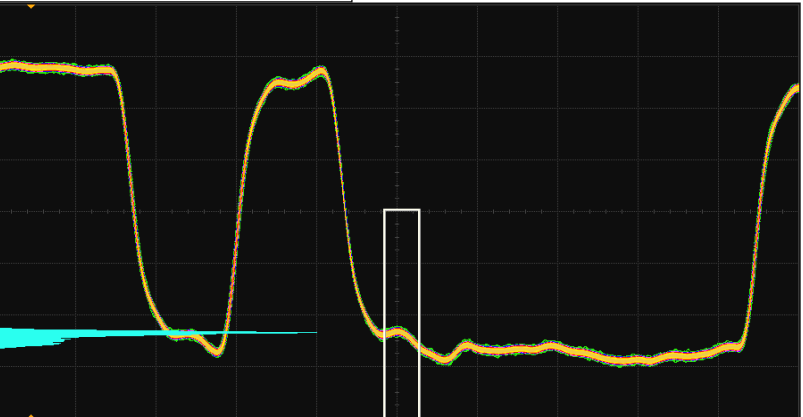


Trial 5

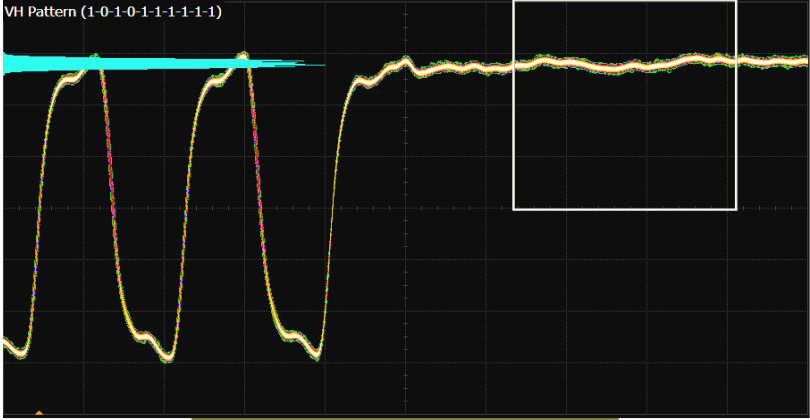
Trial 5: VL NonPreEmphasis Image



Trial 5: VL PreEmphasis Image



Trial 5: VH NonPreEmphasis Image



Trial 5: VH PreEmphasis Image



Trial 6

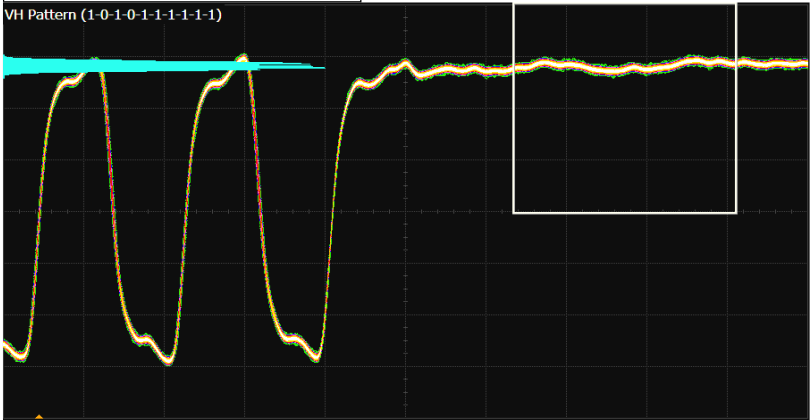
Trial 6: VL NonPreEmphasis Image



Trial 6: VL PreEmphasis Image



Trial 6: VH NonPreEmphasis Image



Trial 6: VH PreEmphasis Image



Lane 0 - Non-PreEmphasis Level Test (Swing 1/ Swing 0)

Reference: DisplayPort CTS Sec. 3.2: Table 3.10 VESA DisplayPort Standard specification

Test Summary:

FAIL

Test Description: To evaluate the waveform peak differential amplitude to ensure signal is neither over, nor under driven.

Test Limits: [800.0 mdB to 6.0000 dB]

Lane 0 Non-PreEmphasis Level Test (Swing 1/Swing 0) (Worst of 2 Trials) -5.1 mdB

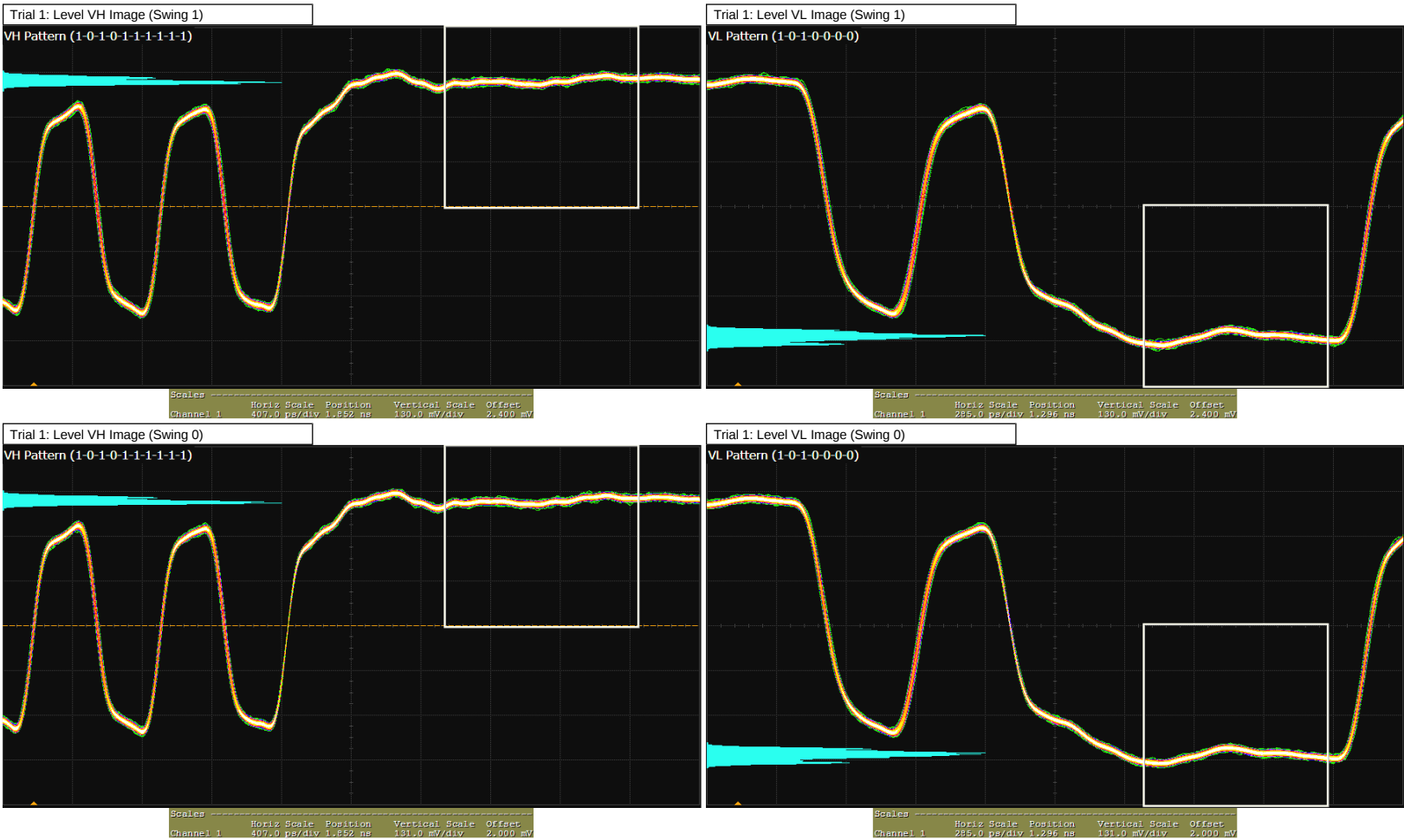
Trials Run: 2

Worst Trial: Trial 1

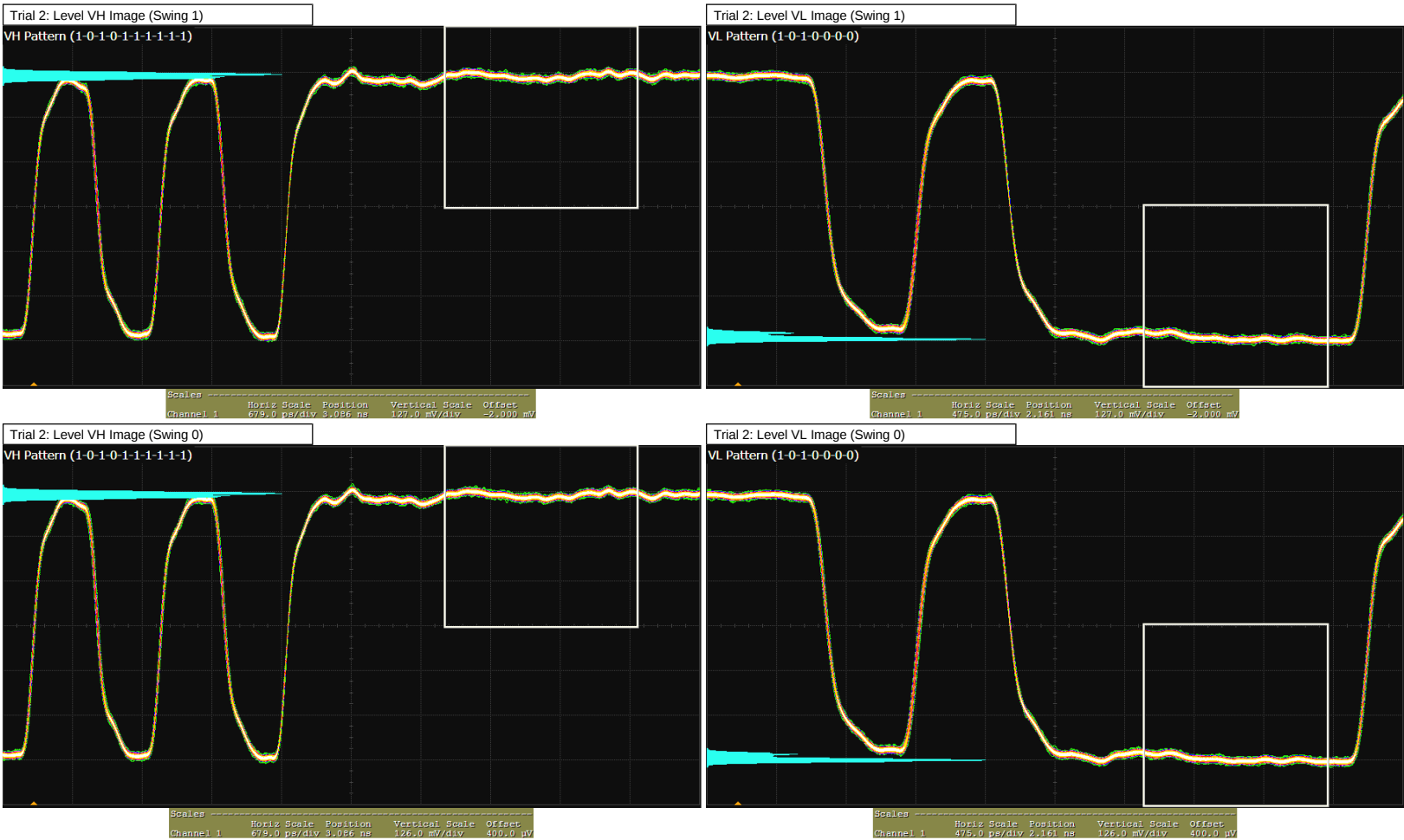
Overall Summary + details of 2 worst trials

Trial	Actual Value	Margin	Level VH Image (Swing 1)	Level VL Image (Swing 1)	Level VH Image (Swing 0)	Level VL Image (Swing 0)	Number of UI	VH Trigger Pattern	VL Trigger Pattern	VTop (Swing 1)	VBase (Swing 1)	VSwing (Swing 1)	VTop (Swing 0)	VBase (Swing 0)	VSwing (Swing 0)	Test Mode	Test Layer	Test Condition	DUT Type	Test Type	Connection Type	BitRate	Level	PreEmphasis	SSC
Avg	-1.296 mdB	-15.41 %																							
StdDev	5.433 mdB	103.3 m%																							
Range	7.684 mdB	146.2 m%																							
Min	-5.138 mdB	-15.48 %																							
Max	2.546 mdB	-15.34 %																							
Sum	-2.592 mdB	-30.82 %																							
Trial 1 (Worst)	-5.1 mdB	-15.5%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	367.114 mV	-376.597 mV	743.711 mV	367.251 mV	-376.900 mV	744.151 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	2.7 Gbps	Swing 1	Pre-emphasis 0	SSC Disabled
Trial 2	2.5 mdB	-15.3%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	369.426 mV	-374.465 mV	743.890 mV	369.053 mV	-374.619 mV	743.672 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	1.62 Gbps	Swing 1	Pre-emphasis 0	SSC Disabled

Trial 1



Trial 2



Lane 1 - Non-PreEmphasis Level Test (Swing 1/ Swing 0)

Reference: DisplayPort CTS Sec. 3.2: Table 3.10 VESA DisplayPort Standard specification

Test Summary: FAIL

Test Description: To evaluate the waveform peak differential amplitude to ensure signal is neither over, nor under driven.

Test Limits: [800.0 mdB to 6.0000 dB]

Lane 1 Non-PreEmphasis Level Test (Swing 1/Swing 0) (Worst of 2 Trials) -10.8 mdB

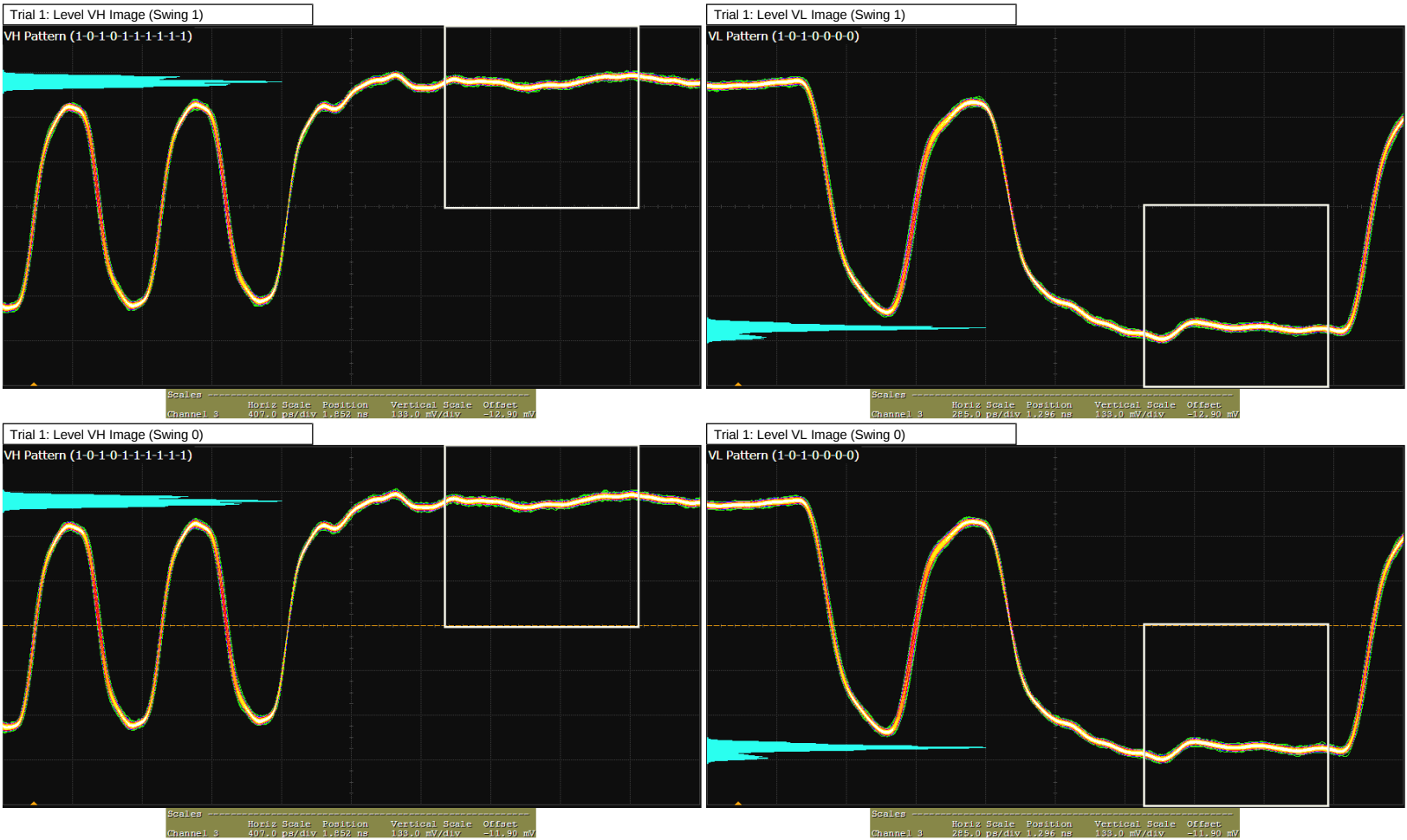
Trials Run: 2

Worst Trial: Trial 1

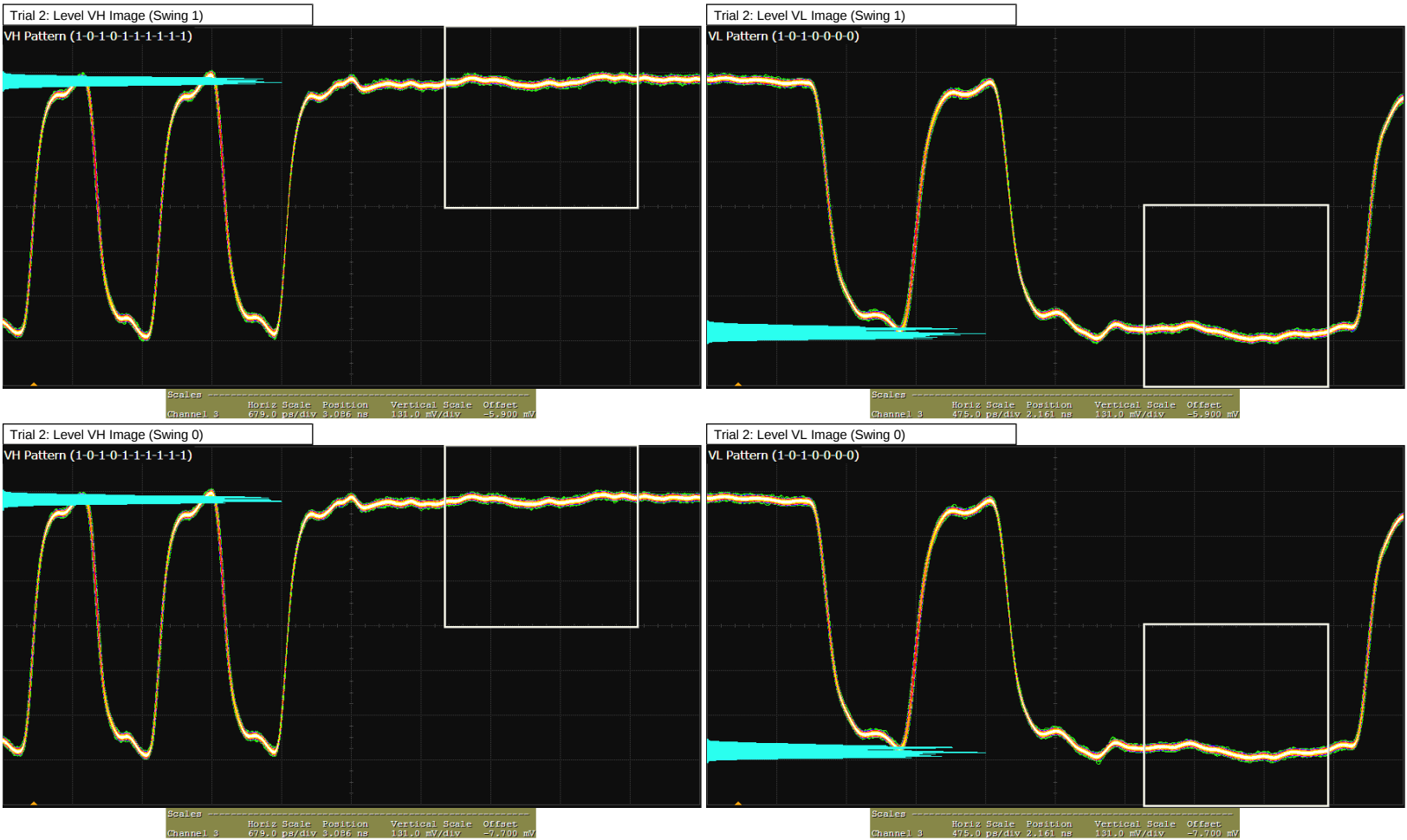
Overall Summary + details of 2 worst trials

	Trial	Actual Value	Margin	Level VH Image (Swing 1)	Level VL Image (Swing 1)	Level VH Image (Swing 0)	Level VL Image (Swing 0)	Number of UI	VH Trigger Pattern	VL Trigger Pattern	VTop (Swing 1)	VBase (Swing 1)	VSwing (Swing 1)	VTop (Swing 0)	VBase (Swing 0)	VSwing (Swing 0)	Test Mode	Test Layer	Test Condition	DUT Type	Test Type	Connection Type	BitRate	Level	PreEmphasis	SSC
	Avg	-10.16 mdB	-15.58 %																							
	StdDev	873.9 µdB	17.68 m%																							
	Range	1.236 mdB	25.00 m%																							
	Min	-10.77 mdB	-15.59 %																							
	Max	-9.538 mdB	-15.57 %																							
	Sum	-20.31 mdB	-31.16 %																							
	Trial 1 (Worst)	-10.8 mdB	-15.6%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	357.882 mV	-376.499 mV	734.380 mV	357.901 mV	-377.391 mV	735.292 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	2.7 Gbps	Swing 1	Pre-emphasis 0	SSC Disabled
	Trial 2	-9.5 mdB	-15.6%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	361.127 mV	-375.233 mV	736.360 mV	361.508 mV	-375.662 mV	737.169 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	1.62 Gbps	Swing 1	Pre-emphasis 0	SSC Disabled

Trial 1



Trial 2



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Lane 0 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2)

Reference: DisplayPort CTS Sec. 3.3: Table 3.10 VESA DisplayPort Standard specification

Test Summary: FAIL

Test Description: This test evaluates the effect of pre-emphasis of the source waveform measuring peak differential amplitude assuring accuracy of pre-emphasis setting.

Test Limits: >= 1.600 dB

PreEmphasis(Pre-emphasis 2) - PreEmphasis(Pre-emphasis 1) (Worst of 4 Trials) 2 mdB

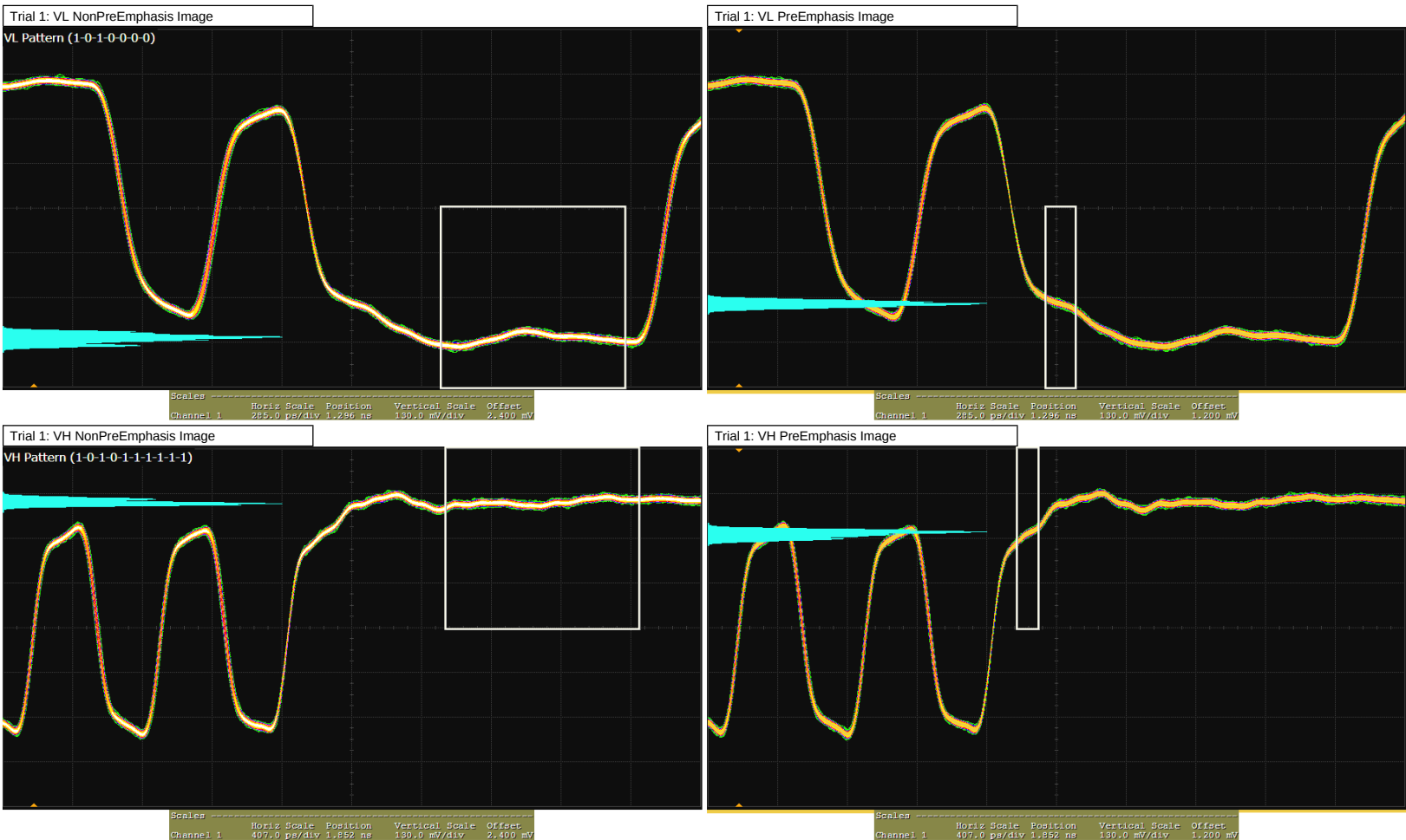
Trials Run: 4

Worst Trial: Trial 1

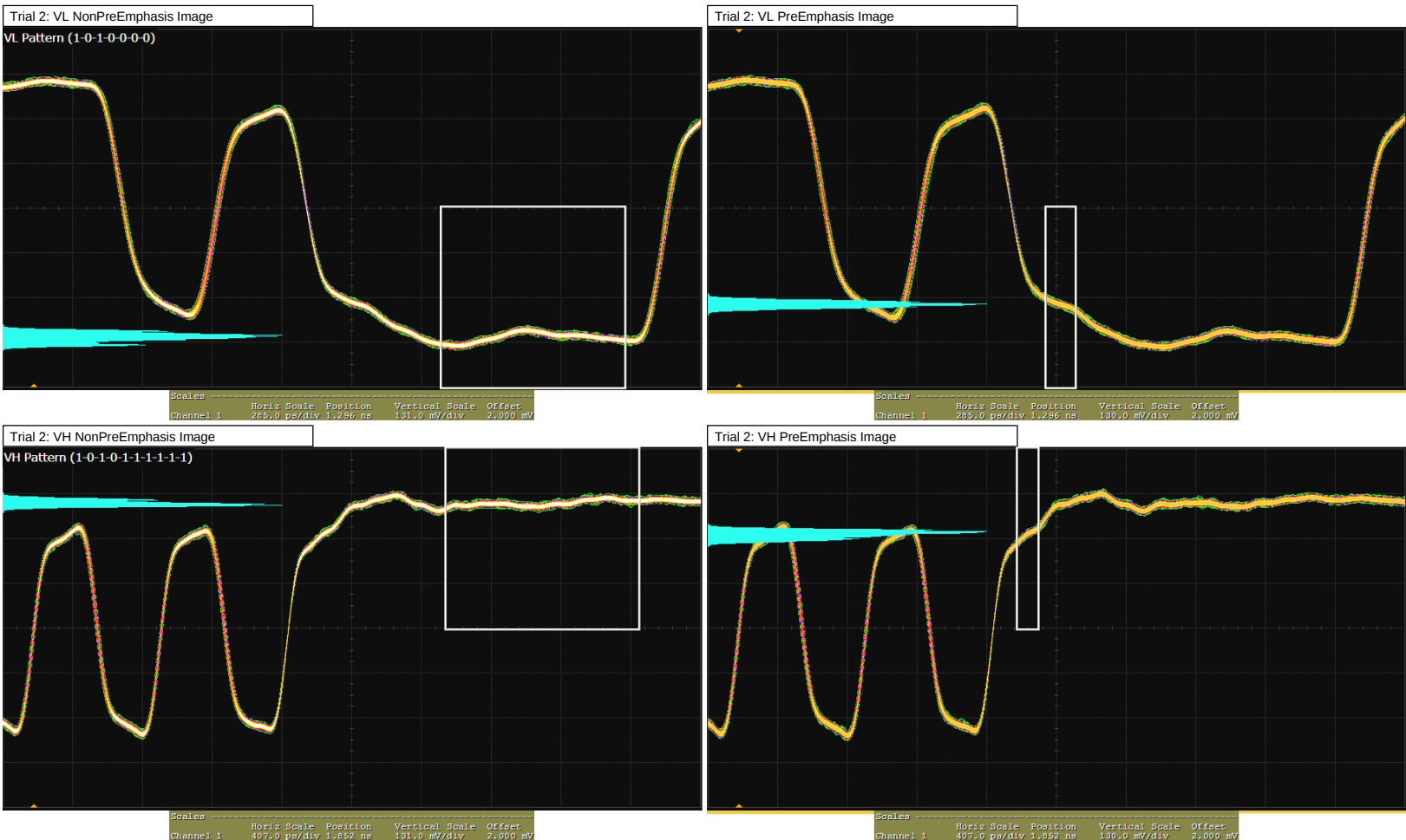
Overall Summary + details of 4 worst trials

Trial	Actual Value	Margin	VL NonPreEmphasis Image	VL PreEmphasis Image	VH NonPreEmphasis Image	VH PreEmphasis Image	Number of UI	VSwing PreEmphasis (Transition Bit)	VSwing PreEmphasis (Non Transition Bit)	PreEmphasis Result	BitRate	Level	PreEmphasis	SSC
Avg	4.980 mdB	-99.69 %												
StdDev	2.275 mdB	135.0 m%												
Range	5.238 mdB	312.5 m%												
Min	1.742 mdB	-99.88 %												
Max	6.980 mdB	-99.56 %												
Sum	19.92 mdB	-398.8 %												
✖ Trial 1 (Worst)	2 mdB	-99.9%	(See image)	(See image)	(See image)	(See image)	1000	551.084 mV	744.124 mV	-2.609 dB	2.7 Gbps	Swing 1	Pre-emphasis 2	SSC Disabled
✖ Trial 2	5 mdB	-99.7%	(See image)	(See image)	(See image)	(See image)	1000	551.756 mV	743.699 mV	-2.593 dB	2.7 Gbps	Swing 0	Pre-emphasis 2	SSC Disabled
✖ Trial 3	7 mdB	-99.6%	(See image)	(See image)	(See image)	(See image)	1000	705.173 mV	743.885 mV	-464 mdB	1.62 Gbps	Swing 1	Pre-emphasis 2	SSC Disabled
✖ Trial 4	6 mdB	-99.6%	(See image)	(See image)	(See image)	(See image)	1000	705.373 mV	743.367 mV	-456 mdB	1.62 Gbps	Swing 0	Pre-emphasis 2	SSC Disabled

Trial 1

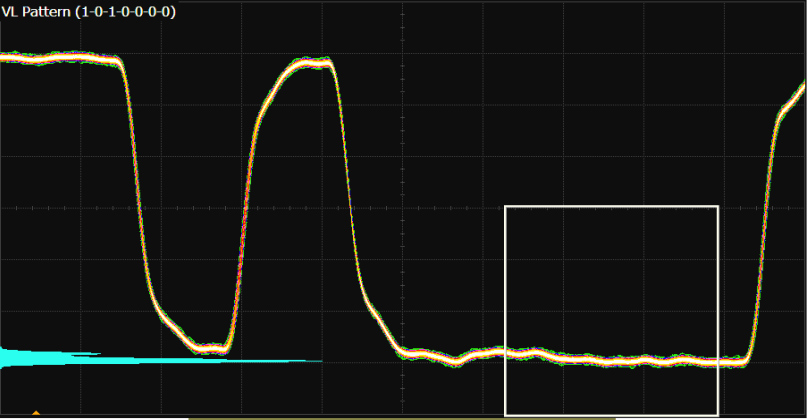


Trial 2



Trial 3

Trial 3: VL NonPreEmphasis Image



Trial 3: VL PreEmphasis Image



Trial 3: VH NonPreEmphasis Image

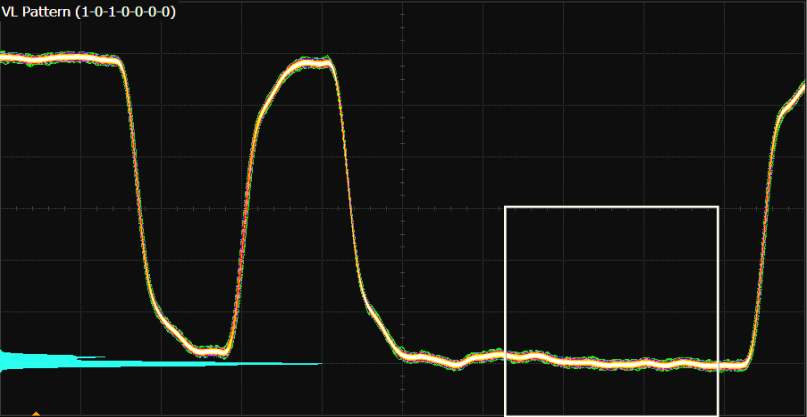


Trial 3: VH PreEmphasis Image



Trial 4

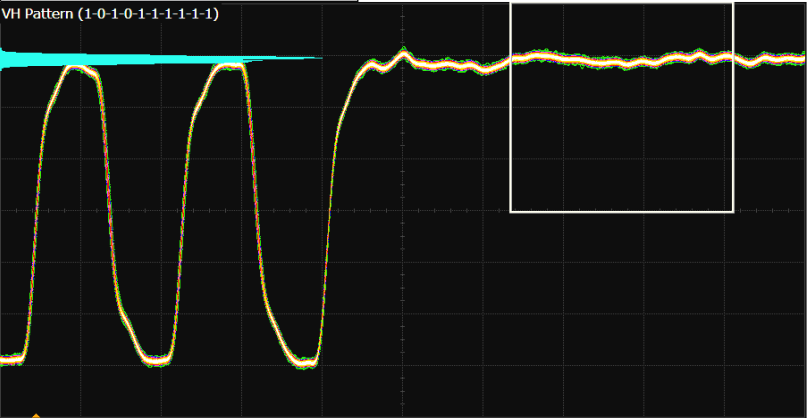
Trial 4: VL NonPreEmphasis Image



Trial 4: VL PreEmphasis Image



Trial 4: VH NonPreEmphasis Image



Trial 4: VH PreEmphasis Image



Lane 1 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2)

Reference: DisplayPort CTS Sec. 3.3: Table 3.10 VESA DisplayPort Standard specification

Test Summary: FAIL

Test Description: This test evaluates the effect of pre-emphasis of the source waveform measuring peak differential amplitude assuring accuracy of pre-emphasis setting.

Test Limits: >= 1.600 dB

PreEmphasis(Pre-emphasis 2) - PreEmphasis(Pre-emphasis 1) (Worst of 4 Trials) -7 mdB

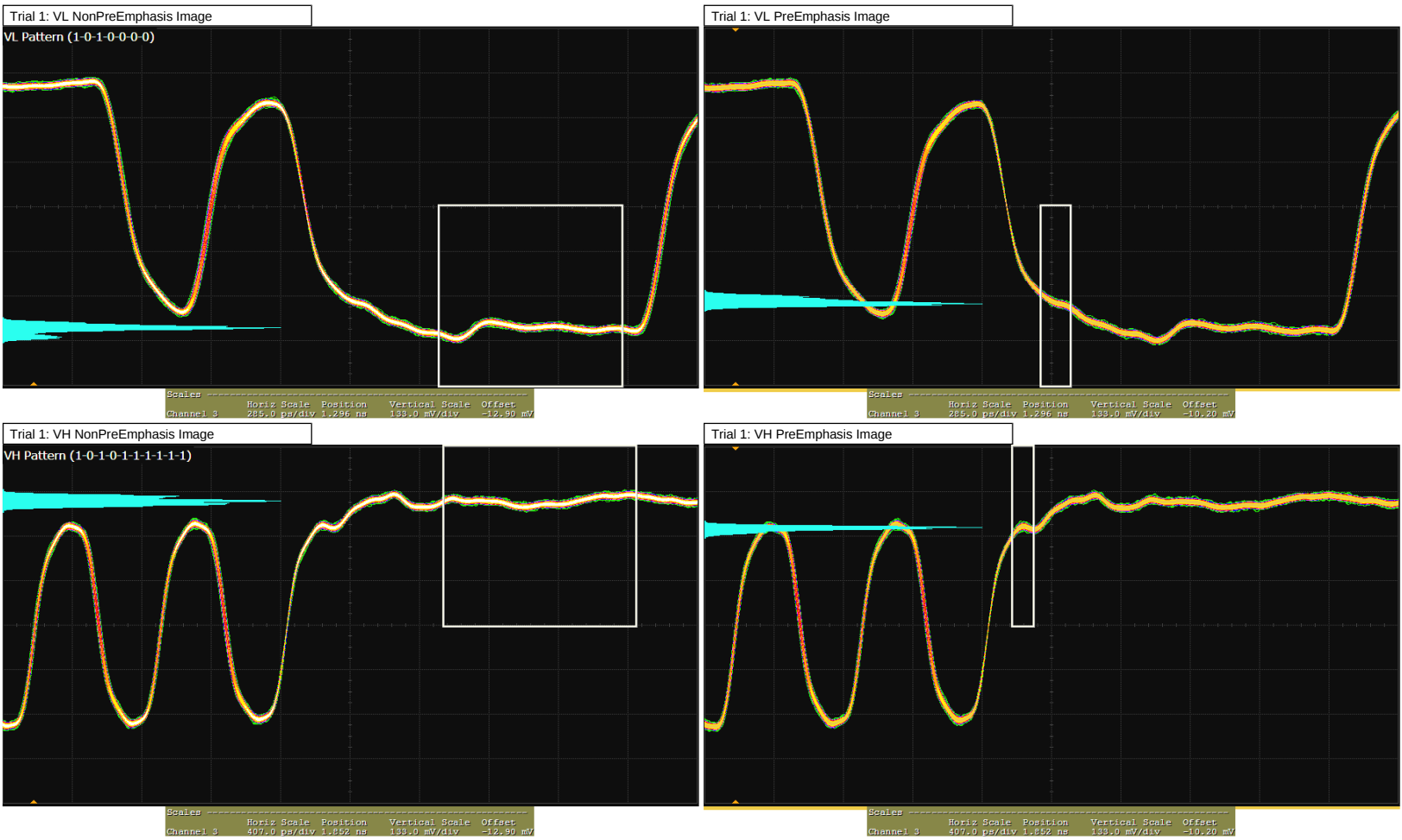
Trials Run: 4

Worst Trial: Trial 1

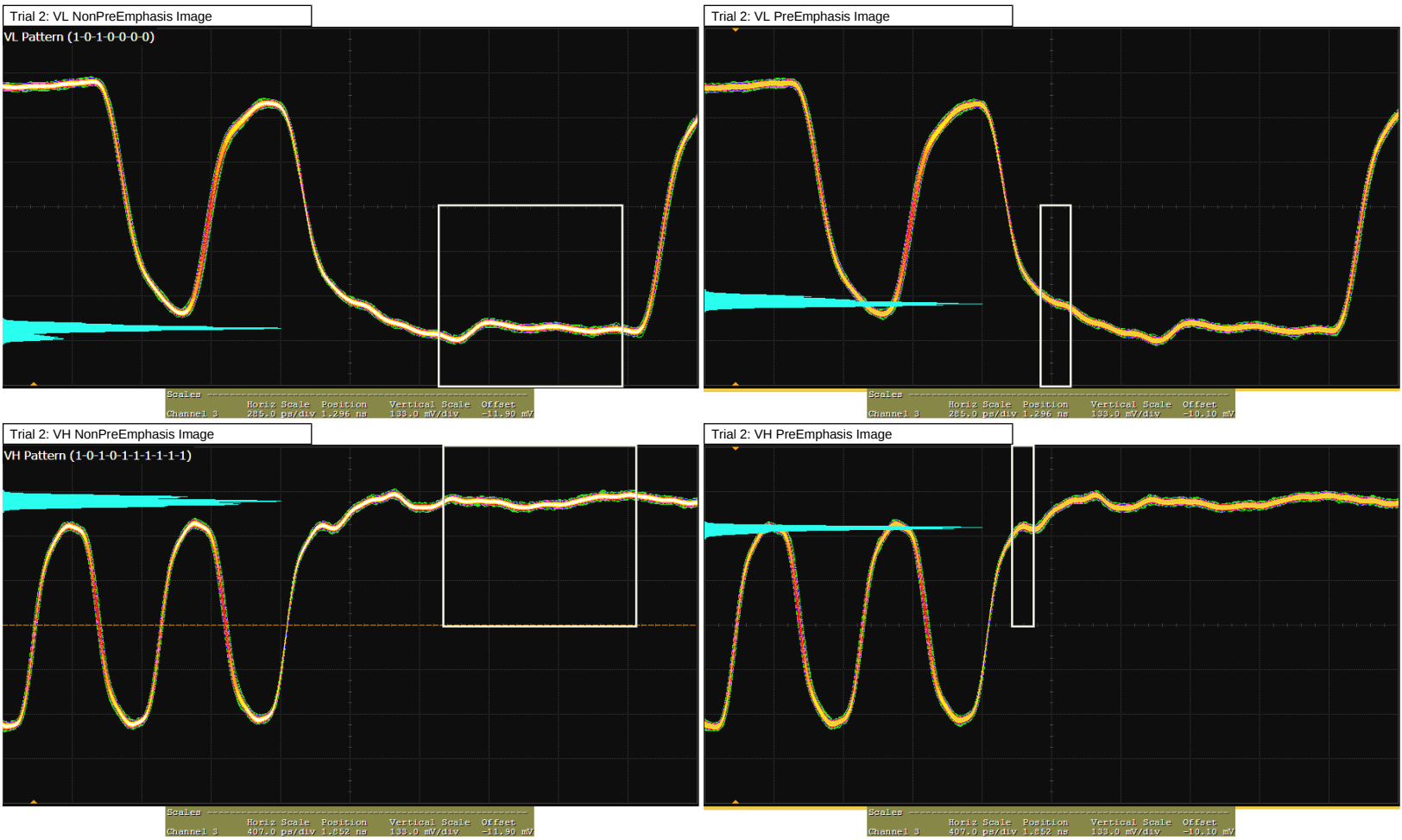
Overall Summary + details of 4 worst trials

Trial	Actual Value	Margin	VL NonPreEmphasis Image	VL PreEmphasis Image	VH NonPreEmphasis Image	VH PreEmphasis Image	Number of UI	VSwing PreEmphasis (Transition Bit)	VSwing PreEmphasis (Non Transition Bit)	PreEmphasis Result	BitRate	Level	PreEmphasis	SSC
Avg	-4.429 mdB	-100.3 %												
StdDev	2.454 mdB	165.4 m%												
Range	5.553 mdB	375.0 m%												
Min	-6.932 mdB	-100.4 %												
Max	-1.379 mdB	-100.1 %												
Sum	-17.71 mdB	-401.1 %												
Trial 1 (Worst)	-7 mdB	-100.4%	(See image)	(See image)	(See image)	(See image)	1000	572.552 mV	734.420 mV	-2.163 dB	2.7 Gbps	Swing 1	Pre-emphasis 2	SSC Disabled
Trial 2	-6 mdB	-100.4%	(See image)	(See image)	(See image)	(See image)	1000	572.561 mV	734.578 mV	-2.164 dB	2.7 Gbps	Swing 0	Pre-emphasis 2	SSC Disabled
Trial 3	-1 mdB	-100.1%	(See image)	(See image)	(See image)	(See image)	1000	644.103 mV	734.953 mV	-1.146 dB	1.62 Gbps	Swing 1	Pre-emphasis 2	SSC Disabled
Trial 4	-4 mdB	-100.3%	(See image)	(See image)	(See image)	(See image)	1000	644.928 mV	736.030 mV	-1.148 dB	1.62 Gbps	Swing 0	Pre-emphasis 2	SSC Disabled

Trial 1



Trial 2



Trial 3

Trial 3: VL NonPreEmphasis Image



Trial 3: VL PreEmphasis Image



Trial 3: VH NonPreEmphasis Image



Trial 3: VH PreEmphasis Image

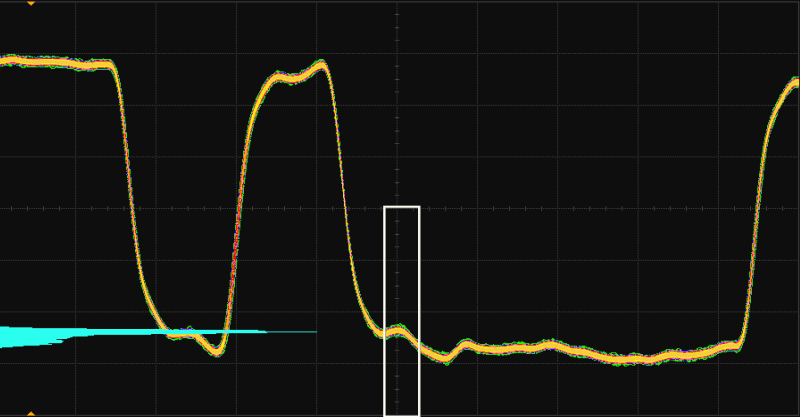


Trial 4

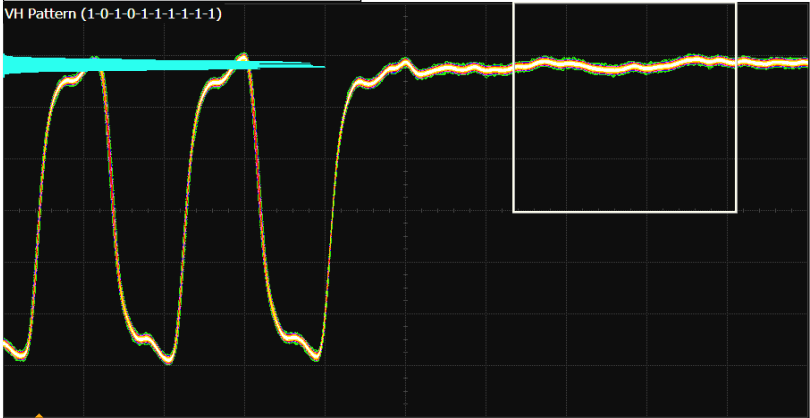
Trial 4: VL NonPreEmphasis Image



Trial 4: VL PreEmphasis Image



Trial 4: VH NonPreEmphasis Image



Trial 4: VH PreEmphasis Image



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Lane 0 - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3)

Reference: DisplayPort CTS Sec. 3.3: Table 3.10 VESA DisplayPort Standard specification

Test Summary: FAIL

Test Description: This test evaluates the effect of pre-emphasis of the source waveform measuring peak differential amplitude assuring accuracy of pre-emphasis setting.

Test Limits: >= 1.600 dB

PreEmphasis(Pre-emphasis 3) - PreEmphasis(Pre-emphasis 2) (Worst of 2 Trials) 4 mdB

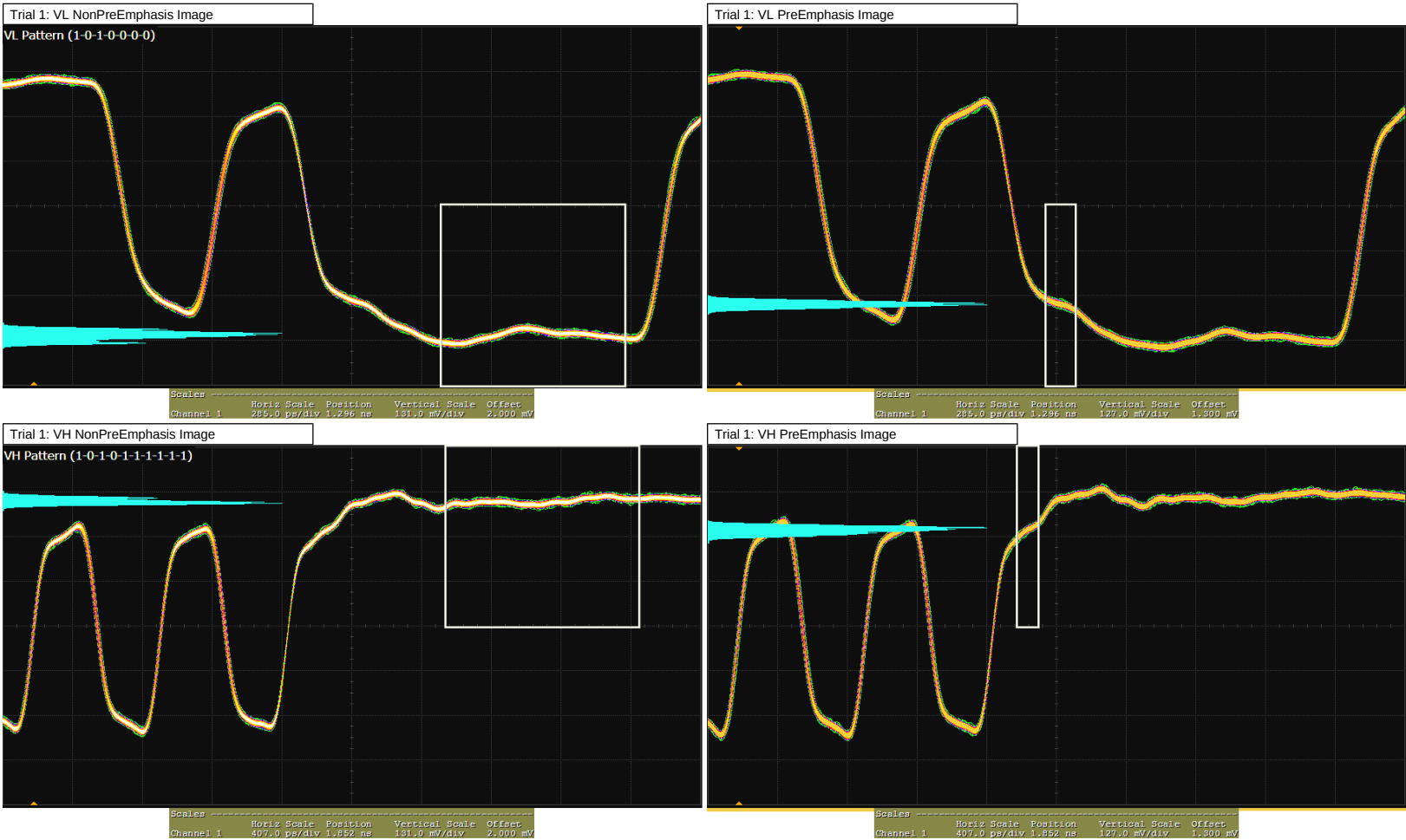
Trials Run: 2

Worst Trial: Trial 1

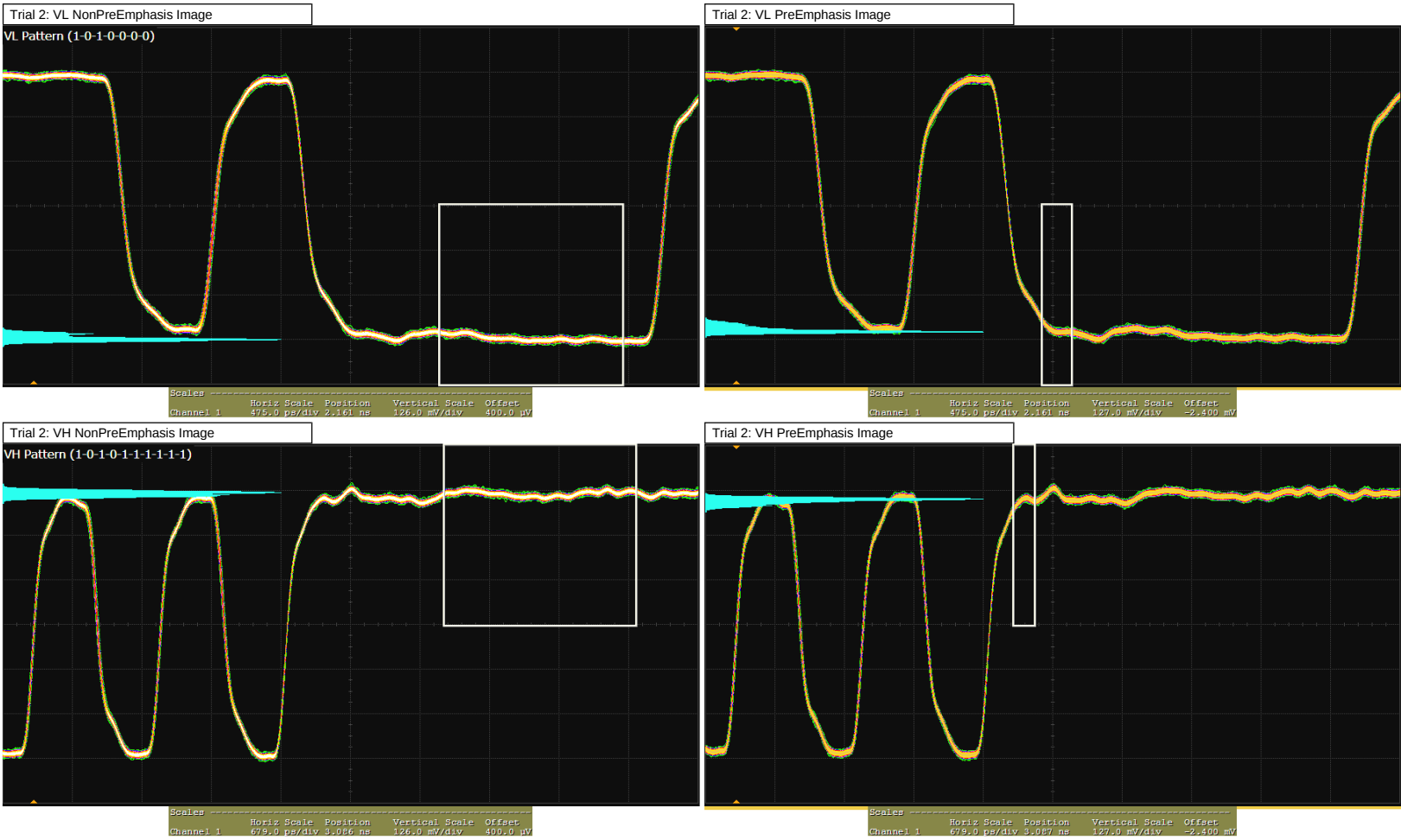
Overall Summary + details of 2 worst trials

Trial	Actual Value	Margin	VL NonPreEmphasis Image	VL PreEmphasis Image	VH NonPreEmphasis Image	VH PreEmphasis Image	Number of UI	VSwing PreEmphasis (Transition Bit)	VSwing PreEmphasis (Non Transition Bit)	PreEmphasis Result	BitRate	Level	PreEmphasis	SSC
Avg	9.710 mdB	-99.38 %												
StdDev	8.233 mdB	530.3 m%												
Range	11.64 mdB	750.0 m%												
Min	3.888 mdB	-99.75 %												
Max	15.53 mdB	-99.00 %												
Sum	19.42 mdB	-198.8 %												
✖ Trial 1 (Worst)	4 mdB	-99.8%	(See image)	(See image)	(See image)	(See image)	1000	551.512 mV	743.037 mV	-2.589 dB	2.7 Gbps	Swing 0	Pre-emphasis 3	SSC Disabled
✖ Trial 2	16 mdB	-99.0%	(See image)	(See image)	(See image)	(See image)	1000	706.885 mV	743.630 mV	-440 mdB	1.62 Gbps	Swing 0	Pre-emphasis 3	SSC Disabled

Trial 1



Trial 2



Lane 1 - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3)

Reference: DisplayPort CTS Sec. 3.3: Table 3.10 VESA DisplayPort Standard specification

Test Summary:

FAIL

Test Description: This test evaluates the effect of pre-emphasis of the source waveform measuring peak differential amplitude assuring accuracy of pre-emphasis setting.

Test Limits:

>= 1.600 dB

PreEmphasis(Pre-emphasis 3) - PreEmphasis(Pre-emphasis 2) (Worst of 2 Trials)

-6 mdB

Trials Run:

2

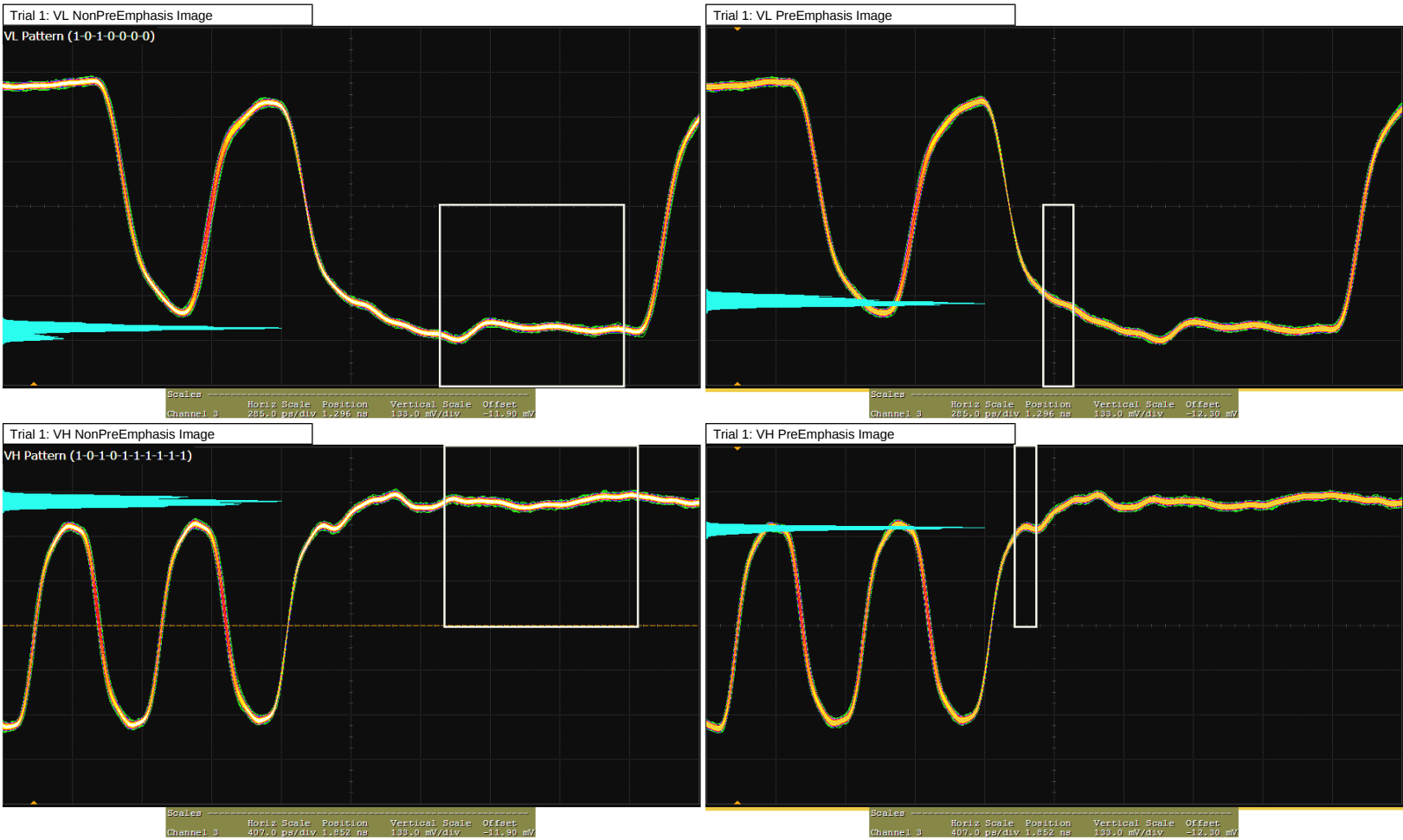
Worst Trial:

Trial 2

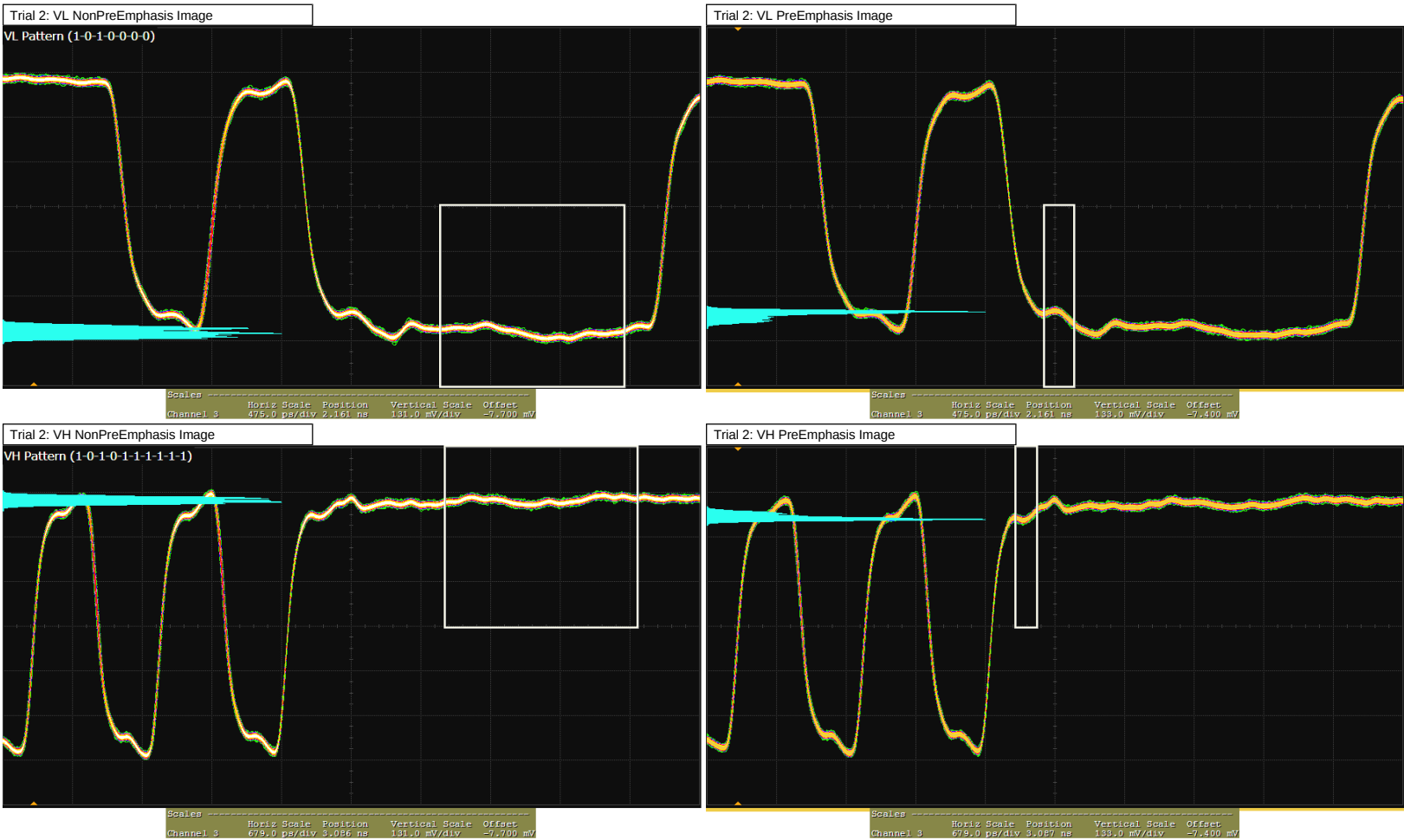
Overall Summary + details of 2 worst trials

Trial	Actual Value	Margin	VL NonPreEmphasis Image	VL PreEmphasis Image	VH NonPreEmphasis Image	VH PreEmphasis Image	Number of UI	VSwing PreEmphasis (Transition Bit)	VSwing PreEmphasis (Non Transition Bit)	PreEmphasis Result	BitRate	Level	PreEmphasis	SSC
Avg	-4.850 mdB	-100.3 %												
StdDev	1.042 mdB	88.39 m%												
Range	1.473 mdB	125.0 m%												
Min	-5.587 mdB	-100.4 %												
Max	-4.114 mdB	-100.3 %												
Sum	-9.700 mdB	-200.6 %												
✖ Trial 1	-4 mdB	-100.3%	(See image)	(See image)	(See image)	(See image)	1000	572.543 mV	734.903 mV	-2.168 dB	2.7 Gbps	Swing 0	Pre-emphasis 3	SSC Disabled
✖ Trial 2 (Worst)	-6 mdB	-100.4%	(See image)	(See image)	(See image)	(See image)	1000	643.785 mV	735.199 mV	-1.153 dB	1.62 Gbps	Swing 0	Pre-emphasis 3	SSC Disabled

Trial 1



Trial 2



Lane 2 - Non-PreEmphasis Level Test (Swing 2/ Swing 1)

Reference: DisplayPort CTS Sec. 3.2: Table 3.10 VESA DisplayPort Standard specification

Test Summary:

FAIL

Test Description: To evaluate the waveform peak differential amplitude to ensure signal is neither over, nor under driven.

Test Limits: [100.0 mdB to 5.1000 dB]

Lane 2 Non-PreEmphasis Level Test (Swing 2/Swing 1) (Worst of 2 Trials) -6.9 mdB

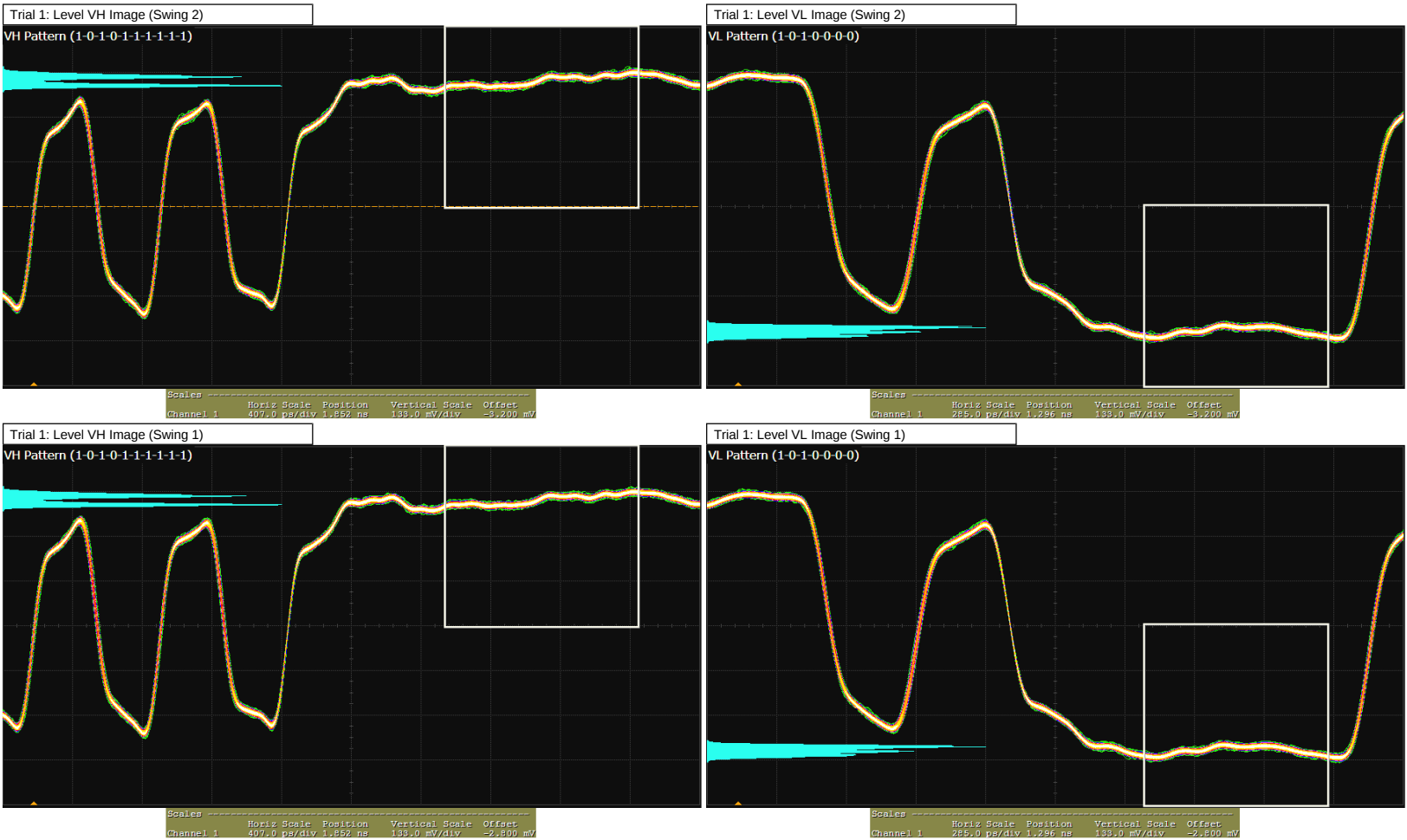
Trials Run: 2

Worst Trial: Trial 1

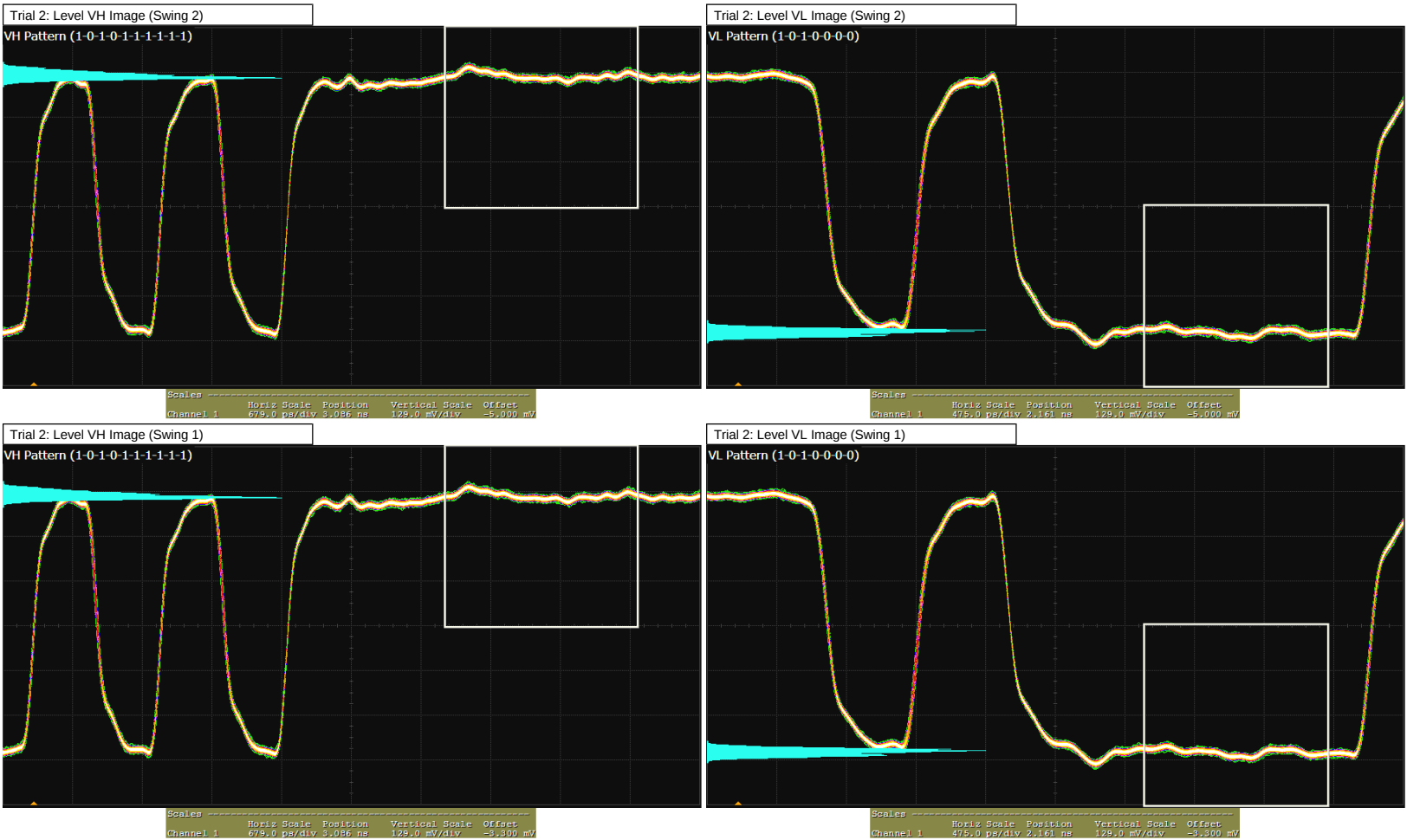
Overall Summary + details of 2 worst trials

Trial	Actual Value	Margin	Level VH Image (Swing 2)	Level VL Image (Swing 2)	Level VH Image (Swing 1)	Level VL Image (Swing 1)	Number of UI	VH Trigger Pattern	VL Trigger Pattern	VTop (Swing 2)	VBase (Swing 2)	VSwing (Swing 2)	VTop (Swing 1)	VBase (Swing 1)	VSwing (Swing 1)	Test Mode	Test Layer	Test Condition	DUT Type	Test Type	Connection Type	BitRate	Level	PreEmphasis	SSC
Avg	-2.281 mdB	-2.046 %																							
StdDev	6.528 mdB	130.1 m%																							
Range	9.232 mdB	184.0 m%																							
Min	-6.897 mdB	-2.138 %																							
Max	2.335 mdB	-1.954 %																							
Sum	-4.562 mdB	-4.092 %																							
Trial 1 (Worst)	-6.9 mdB	-2.1%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	370.828 mV	-372.893 mV	743.721 mV	371.228 mV	-373.084 mV	744.312 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	2.7 Gbps	Swing 2	Pre-emphasis 0	SSC Disabled
Trial 2	2.3 mdB	-2.0%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	372.000 mV	-367.406 mV	739.405 mV	371.677 mV	-367.530 mV	739.207 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	1.62 Gbps	Swing 2	Pre-emphasis 0	SSC Disabled

Trial 1



Trial 2



Lane 3 - Non-PreEmphasis Level Test (Swing 2/ Swing 1)

Reference: DisplayPort CTS Sec. 3.2: Table 3.10 VESA DisplayPort Standard specification

Test Summary:

FAIL

Test Description: To evaluate the waveform peak differential amplitude to ensure signal is neither over, nor under driven.

Test Limits: [100.0 mdB to 5.1000 dB]

Lane 3 Non-PreEmphasis Level Test (Swing 2/Swing 1) (Worst of 2 Trials) -11.5 mdB

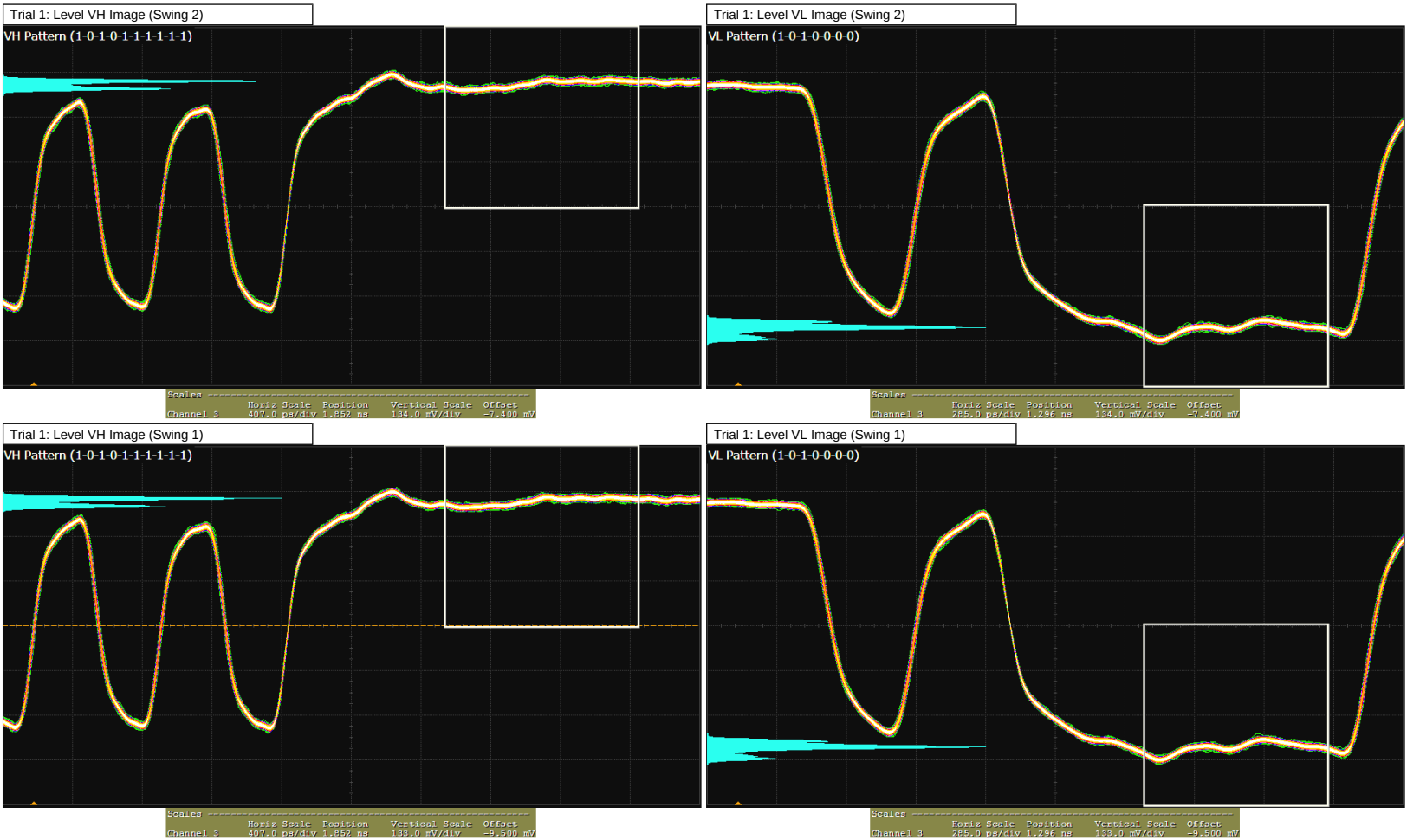
Trials Run: 2

Worst Trial: Trial 1

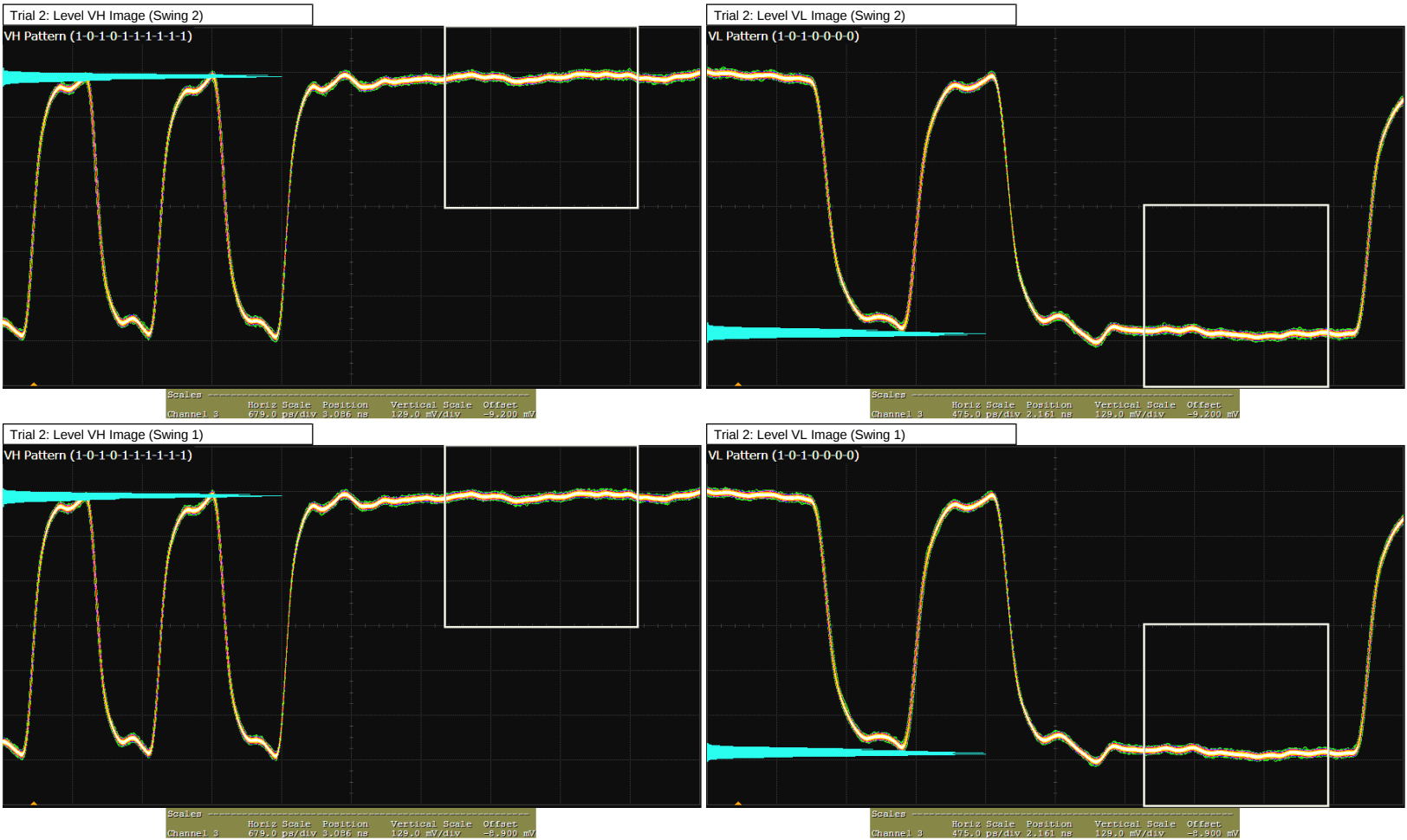
Overall Summary + details of 2 worst trials

	Trial	Actual Value	Margin	Level VH Image (Swing 2)	Level VL Image (Swing 2)	Level VH Image (Swing 1)	Level VL Image (Swing 1)	Number of UI	VH Trigger Pattern	VL Trigger Pattern	VTop (Swing 2)	VBase (Swing 2)	VSwing (Swing 2)	VTop (Swing 1)	VBase (Swing 1)	VSwing (Swing 1)	Test Mode	Test Layer	Test Condition	DUT Type	Test Type	Connection Type	BitRate	Level	PreEmphasis	SSC
	Avg	-5.711 mdB	-2.114 %																							
	StdDev	8.206 mdB	164.0 m%																							
	Range	11.60 mdB	232.0 m%																							
	Min	-11.51 mdB	-2.230 %																							
	Max	91.35 μdB	-1.998 %																							
	Sum	-11.42 mdB	-4.228 %																							
	Trial 1 (Worst)	-11.5 mdB	-2.2%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	359.036 mV	-371.469 mV	730.505 mV	359.573 mV	-371.901 mV	731.474 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	2.7 Gbps	Swing 2	Pre-emphasis 0	SSC Disabled
	Trial 2	90 μdB	-2.0%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	364.718 mV	-374.079 mV	738.796 mV	364.284 mV	-374.504 mV	738.788 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	1.62 Gbps	Swing 2	Pre-emphasis 0	SSC Disabled

Trial 1



Trial 2



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Lane 2 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0)

Reference: DisplayPort CTS Sec. 3.3: Table 3.10 VESA DisplayPort Standard specification

Test Summary: FAIL

Test Description: This test evaluates the effect of pre-emphasis of the source waveform measuring peak differential amplitude assuring accuracy of pre-emphasis setting.

Test Limits: >= 2.000 dB

PreEmphasis(Pre-emphasis 1) (Worst of 6 Trials) -7 mdB

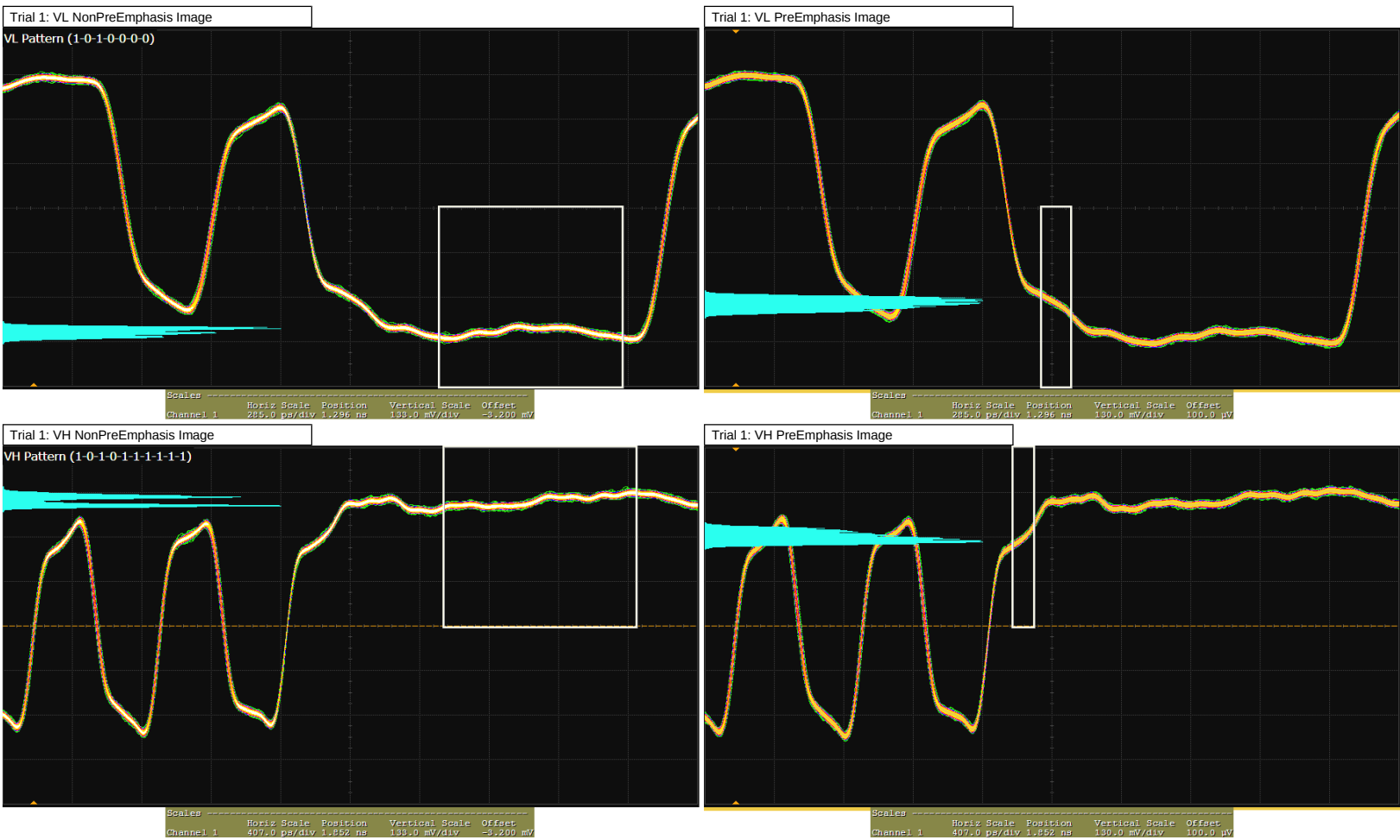
Trials Run: 6

Worst Trial: Trial 4

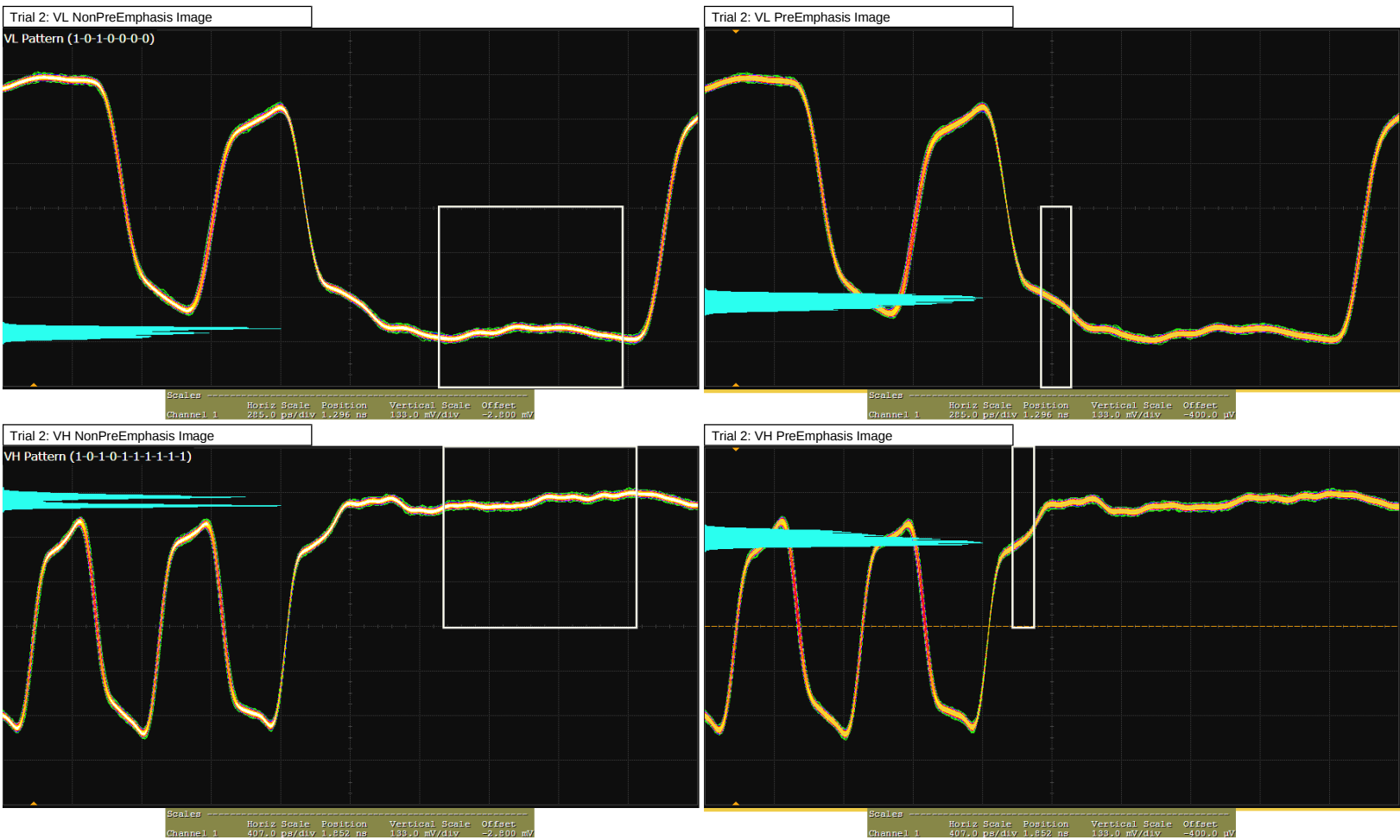
Overall Summary + details of 6 worst trials

Trial	Actual Value	Margin	VL NonPreEmphasis Image	VL PreEmphasis Image	VH NonPreEmphasis Image	VH PreEmphasis Image	Number of UI	VSwing PreEmphasis (Transition Bit)	VSwing PreEmphasis (Non Transition Bit)	PreEmphasis Result	BitRate	Level	PreEmphasis	SSC
Avg	-1.554 mdB	-100.1 %												
StdDev	5.565 mdB	280.6 m%												
Range	14.54 mdB	750.0 m%												
Min	-6.888 mdB	-100.4 %												
Max	7.656 mdB	-99.60 %												
Sum	-9.327 mdB	-600.5 %												
✖ Trial 1	-5 mdB	-100.3%	(See image)	(See image)	(See image)	(See image)	1000	537.856 mV	745.264 mV	-2.833 dB	2.7 Gbps	Swing 2	Pre-emphasis 1	SSC Disabled
✖ Trial 2	8 mdB	-99.6%	(See image)	(See image)	(See image)	(See image)	1000	538.525 mV	744.875 mV	-2.818 dB	2.7 Gbps	Swing 1	Pre-emphasis 1	SSC Disabled
✖ Trial 3	2 mdB	-99.9%	(See image)	(See image)	(See image)	(See image)	1000	538.469 mV	745.384 mV	-2.824 dB	2.7 Gbps	Swing 0	Pre-emphasis 1	SSC Disabled
✖ Trial 4 (Worst)	-7 mdB	-100.4%	(See image)	(See image)	(See image)	(See image)	1000	689.971 mV	738.987 mV	-596 mdB	1.62 Gbps	Swing 2	Pre-emphasis 1	SSC Disabled
✖ Trial 5	-5 mdB	-100.3%	(See image)	(See image)	(See image)	(See image)	1000	690.798 mV	739.791 mV	-595 mdB	1.62 Gbps	Swing 1	Pre-emphasis 1	SSC Disabled
✖ Trial 6	-2 mdB	-100.1%	(See image)	(See image)	(See image)	(See image)	1000	690.718 mV	739.631 mV	-594 mdB	1.62 Gbps	Swing 0	Pre-emphasis 1	SSC Disabled

Trial 1



Trial 2

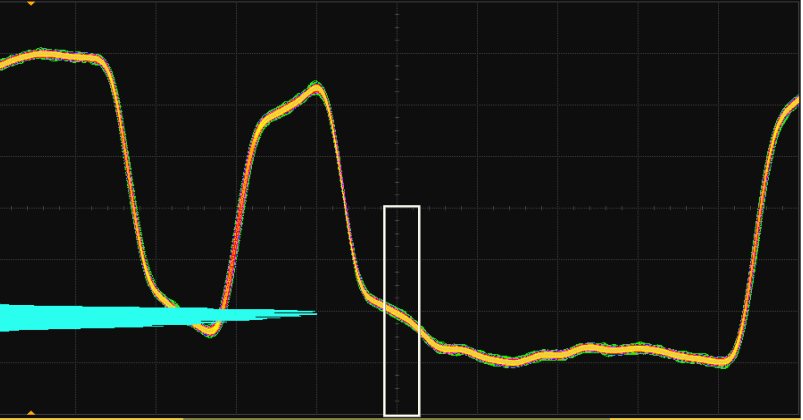


Trial 3

Trial 3: VL NonPreEmphasis Image



Trial 3: VL PreEmphasis Image



Trial 3: VH NonPreEmphasis Image



Trial 3: VH PreEmphasis Image



Trial 4

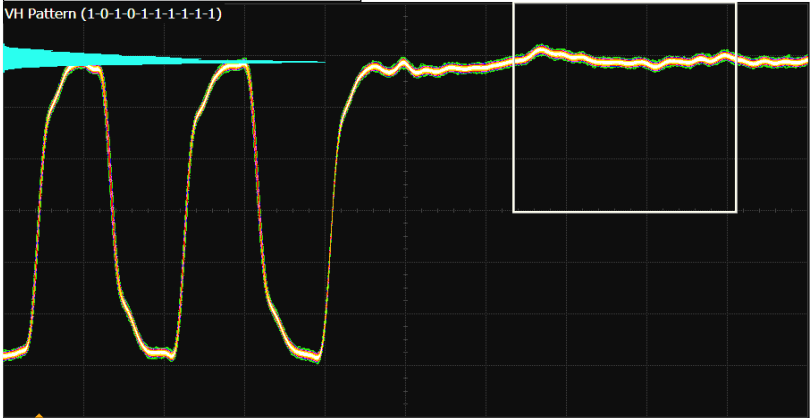
Trial 4: VL NonPreEmphasis Image



Trial 4: VL PreEmphasis Image



Trial 4: VH NonPreEmphasis Image

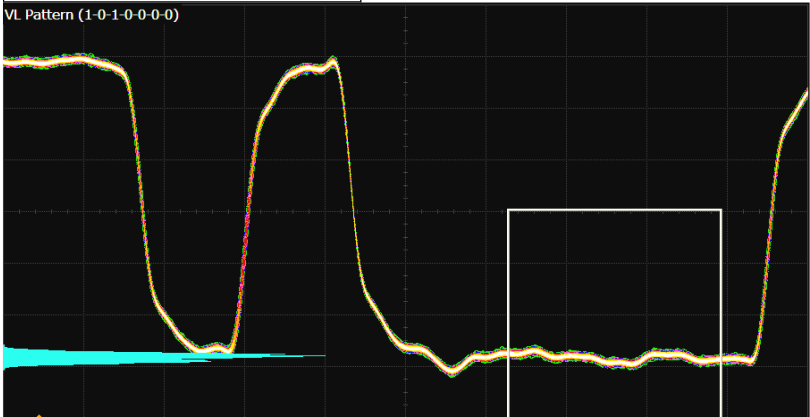


Trial 4: VH PreEmphasis Image



Trial 5

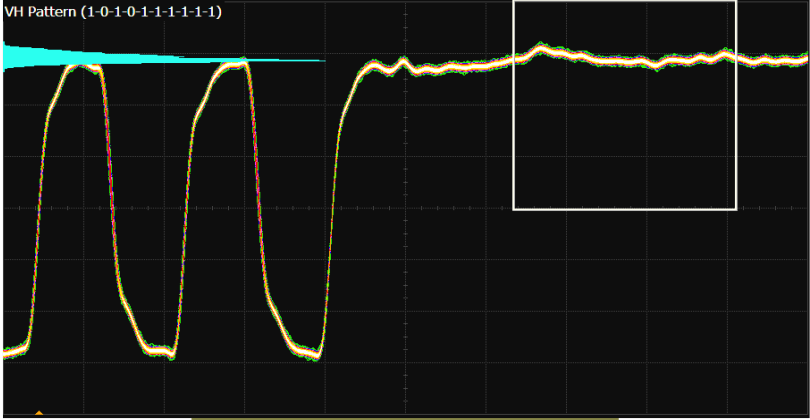
Trial 5: VL NonPreEmphasis Image



Trial 5: VL PreEmphasis Image



Trial 5: VH NonPreEmphasis Image

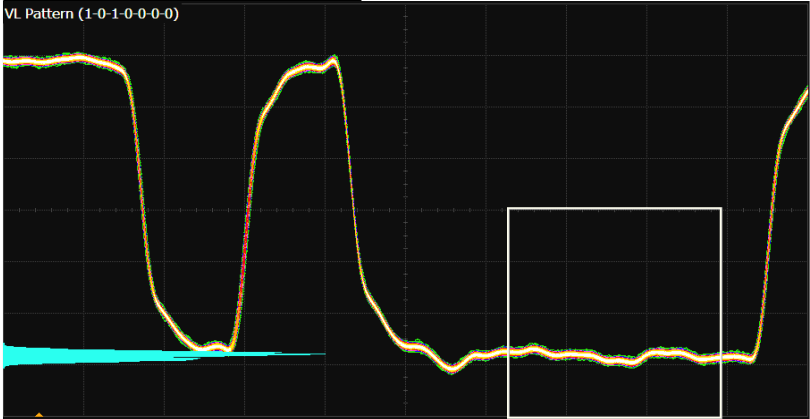


Trial 5: VH PreEmphasis Image

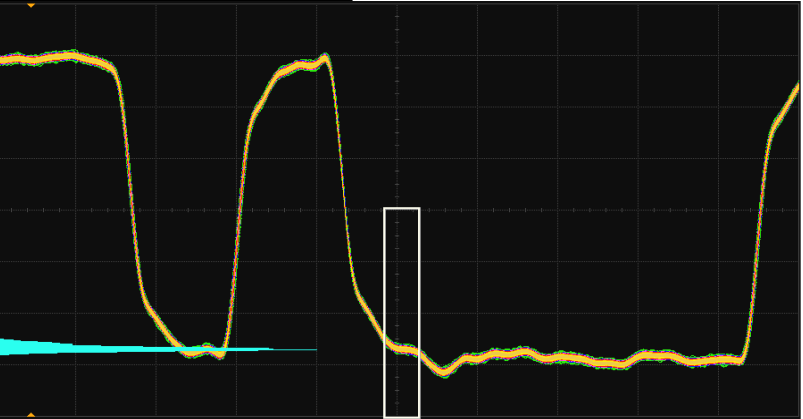


Trial 6

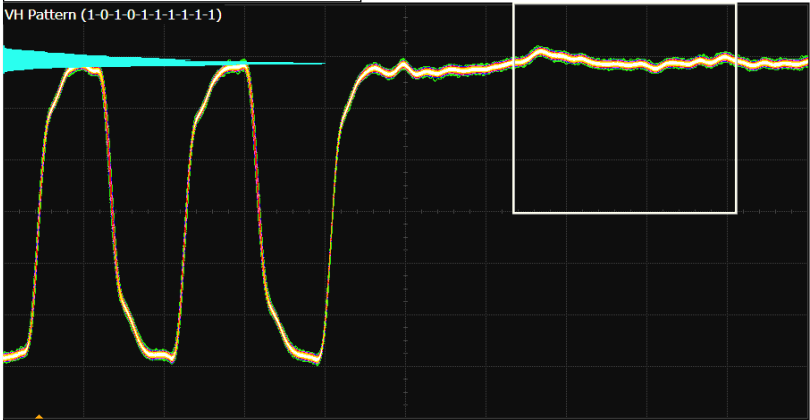
Trial 6: VL NonPreEmphasis Image



Trial 6: VL PreEmphasis Image



Trial 6: VH NonPreEmphasis Image



Trial 6: VH PreEmphasis Image



Lane 3 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0)

Reference: DisplayPort CTS Sec. 3.3: Table 3.10 VESA DisplayPort Standard specification

Test Summary:

FAIL

Test Description: This test evaluates the effect of pre-emphasis of the source waveform measuring peak differential amplitude assuring accuracy of pre-emphasis setting.

Test Limits:

>= 2.000 dB

PreEmphasis(Pre-emphasis 1) (Worst of 6 Trials)

-20 mdB

Trials Run:

6

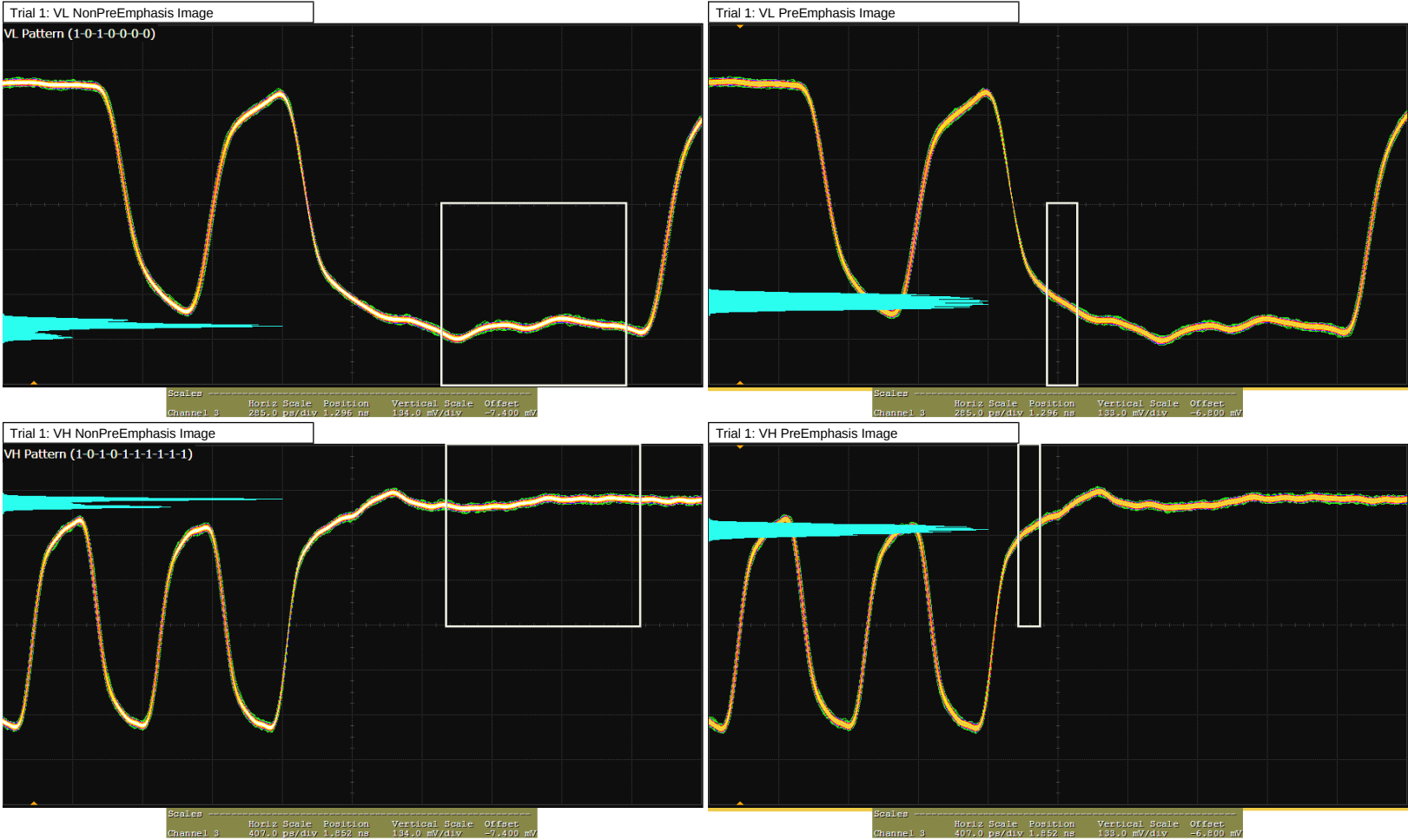
Worst Trial:

Trial 3

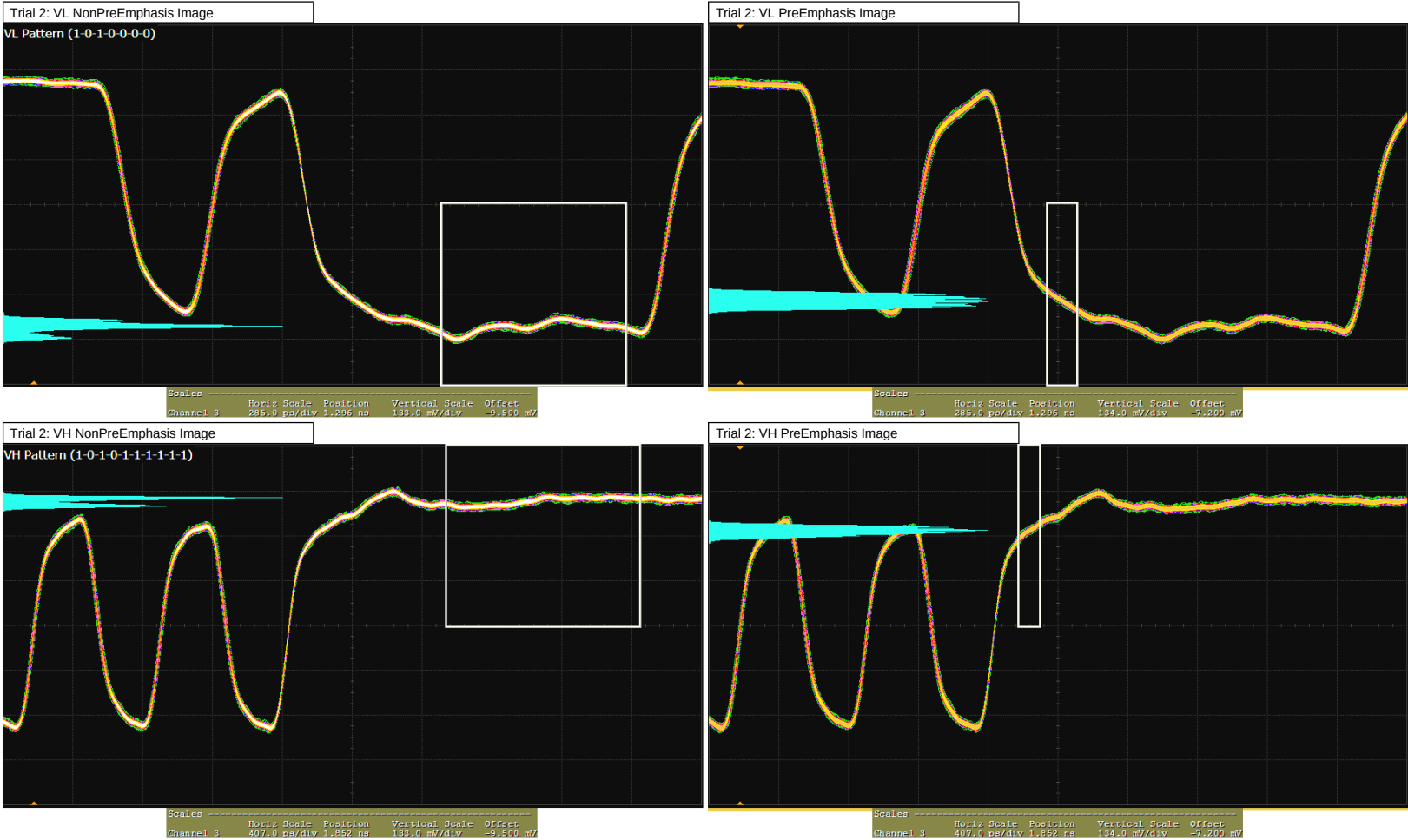
Overall Summary + details of 6 worst trials

Trial	Actual Value	Margin	VL NonPreEmphasis Image	VL PreEmphasis Image	VH NonPreEmphasis Image	VH PreEmphasis Image	Number of UI	VSwing PreEmphasis (Transition Bit)	VSwing PreEmphasis (Non Transition Bit)	PreEmphasis Result	BitRate	Level	PreEmphasis	SSC
Avg	-8.597 mdB	-100.4 %												
StdDev	6.728 mdB	334.2 m%												
Range	19.02 mdB	950.0 m%												
Min	-20.03 mdB	-101.0 %												
Max	-1.008 mdB	-100.1 %												
Sum	-51.58 mdB	-602.6 %												
Trial 1	-10 mdB	-100.5%	(See image)	(See image)	(See image)	(See image)	1000	570.280 mV	730.793 mV	-2.154 dB	2.7 Gbps	Swing 2	Pre-emphasis 1	SSC Disabled
Trial 2	-11 mdB	-100.6%	(See image)	(See image)	(See image)	(See image)	1000	570.607 mV	730.504 mV	-2.146 dB	2.7 Gbps	Swing 1	Pre-emphasis 1	SSC Disabled
Trial 3 (Worst)	-20 mdB	-101.0%	(See image)	(See image)	(See image)	(See image)	1000	570.738 mV	730.657 mV	-2.146 dB	2.7 Gbps	Swing 0	Pre-emphasis 1	SSC Disabled
Trial 4	-6 mdB	-100.3%	(See image)	(See image)	(See image)	(See image)	1000	664.852 mV	738.030 mV	-907 mdB	1.62 Gbps	Swing 2	Pre-emphasis 1	SSC Disabled
Trial 5	-4 mdB	-100.2%	(See image)	(See image)	(See image)	(See image)	1000	665.499 mV	738.704 mV	-906 mdB	1.62 Gbps	Swing 1	Pre-emphasis 1	SSC Disabled
Trial 6	-1 mdB	-100.1%	(See image)	(See image)	(See image)	(See image)	1000	665.496 mV	738.539 mV	-905 mdB	1.62 Gbps	Swing 0	Pre-emphasis 1	SSC Disabled

Trial 1

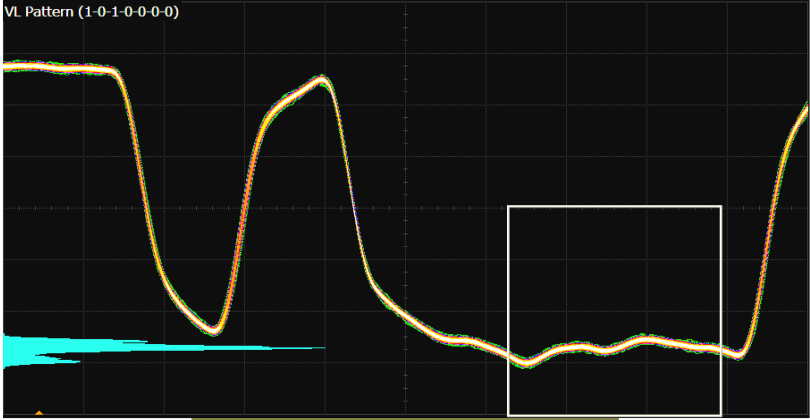


Trial 2

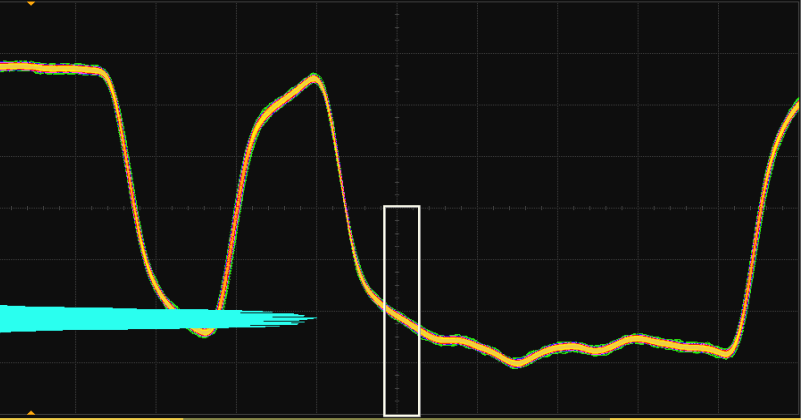


Trial 3

Trial 3: VL NonPreEmphasis Image



Trial 3: VL PreEmphasis Image



Trial 3: VH NonPreEmphasis Image

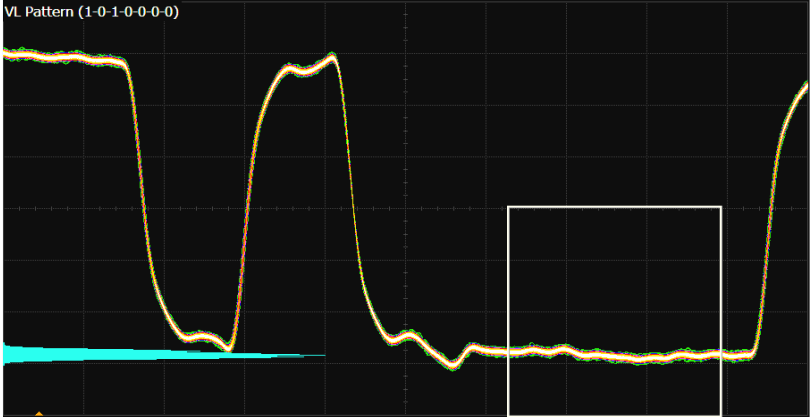


Trial 3: VH PreEmphasis Image



Trial 4

Trial 4: VL NonPreEmphasis Image



Trial 4: VL PreEmphasis Image



Trial 4: VH NonPreEmphasis Image

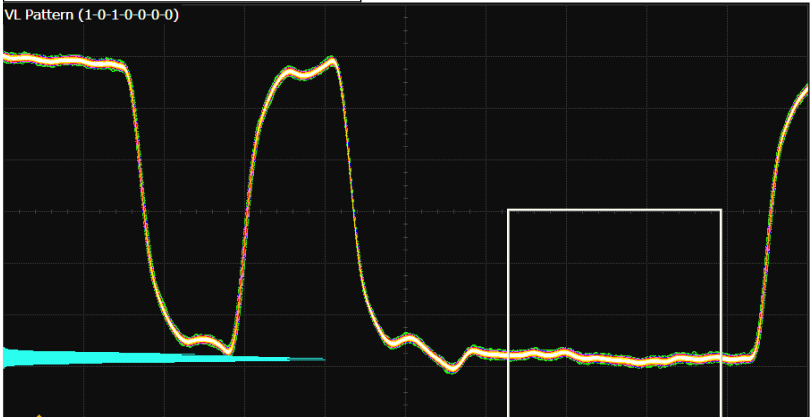


Trial 4: VH PreEmphasis Image



Trial 5

Trial 5: VL NonPreEmphasis Image



Trial 5: VL PreEmphasis Image



Trial 5: VH NonPreEmphasis Image

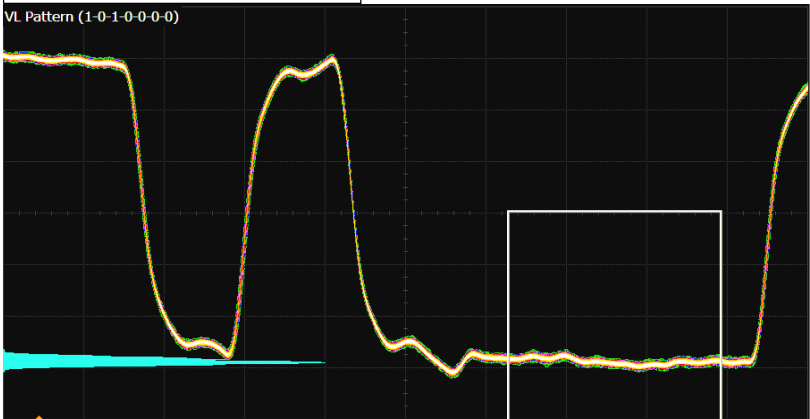


Trial 5: VH PreEmphasis Image



Trial 6

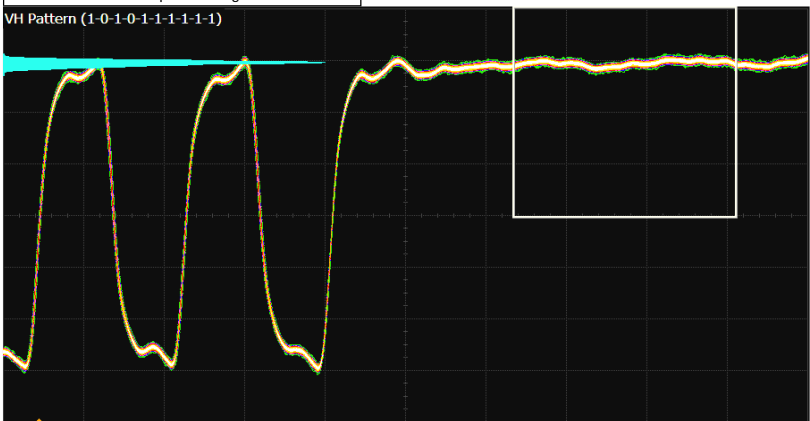
Trial 6: VL NonPreEmphasis Image



Trial 6: VL PreEmphasis Image



Trial 6: VH NonPreEmphasis Image



Trial 6: VH PreEmphasis Image



Lane 2 - Non-PreEmphasis Level Test (Swing 1/ Swing 0)

Reference: DisplayPort CTS Sec. 3.2: Table 3.10 VESA DisplayPort Standard specification

Test Summary: FAIL

Test Description: To evaluate the waveform peak differential amplitude to ensure signal is neither over, nor under driven.

Test Limits: [800.0 mdB to 6.0000 dB]

Lane 2 Non-PreEmphasis Level Test (Swing 1/Swing 0) (Worst of 2 Trials) -5.2 mdB

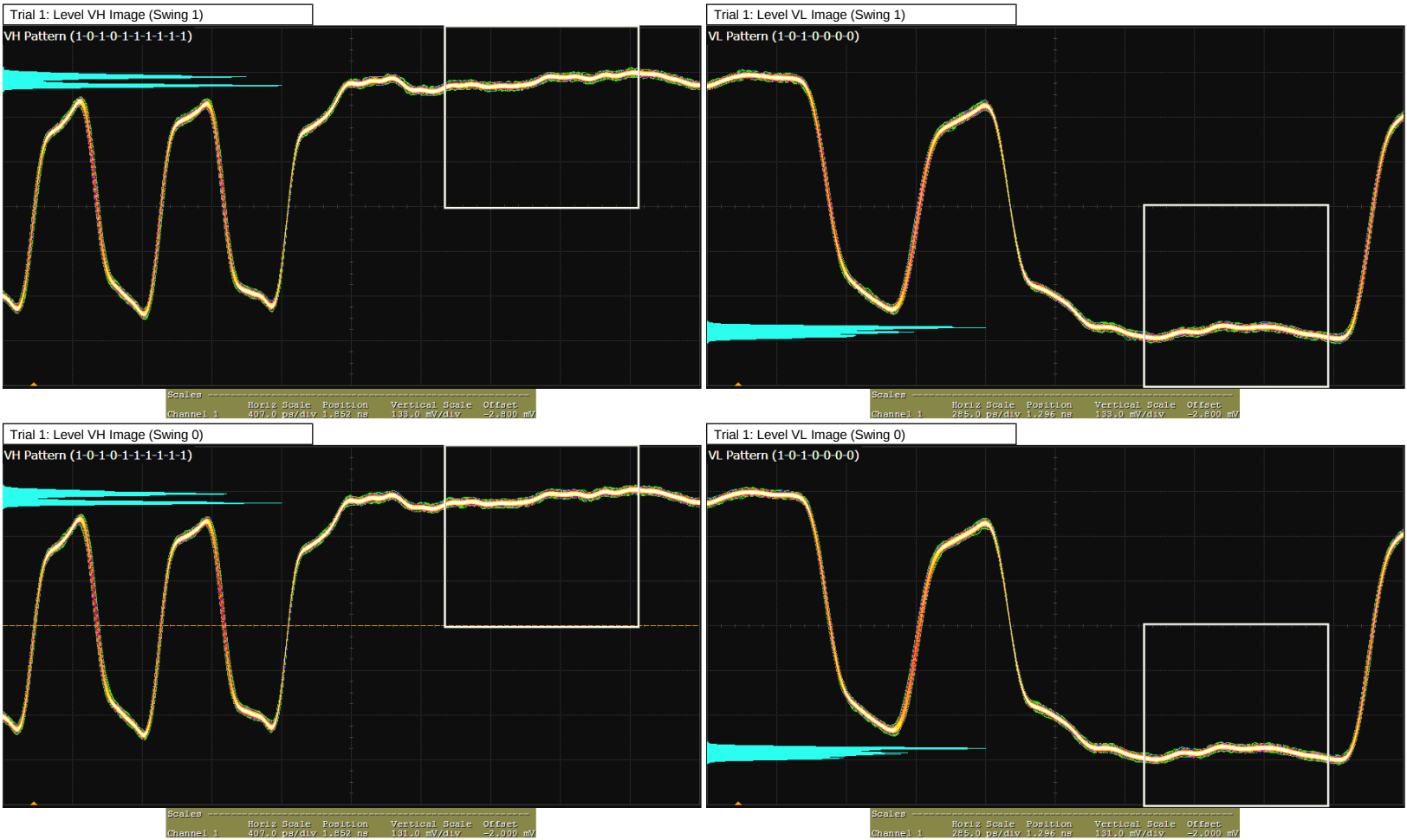
Trials Run: 2

Worst Trial: Trial 1

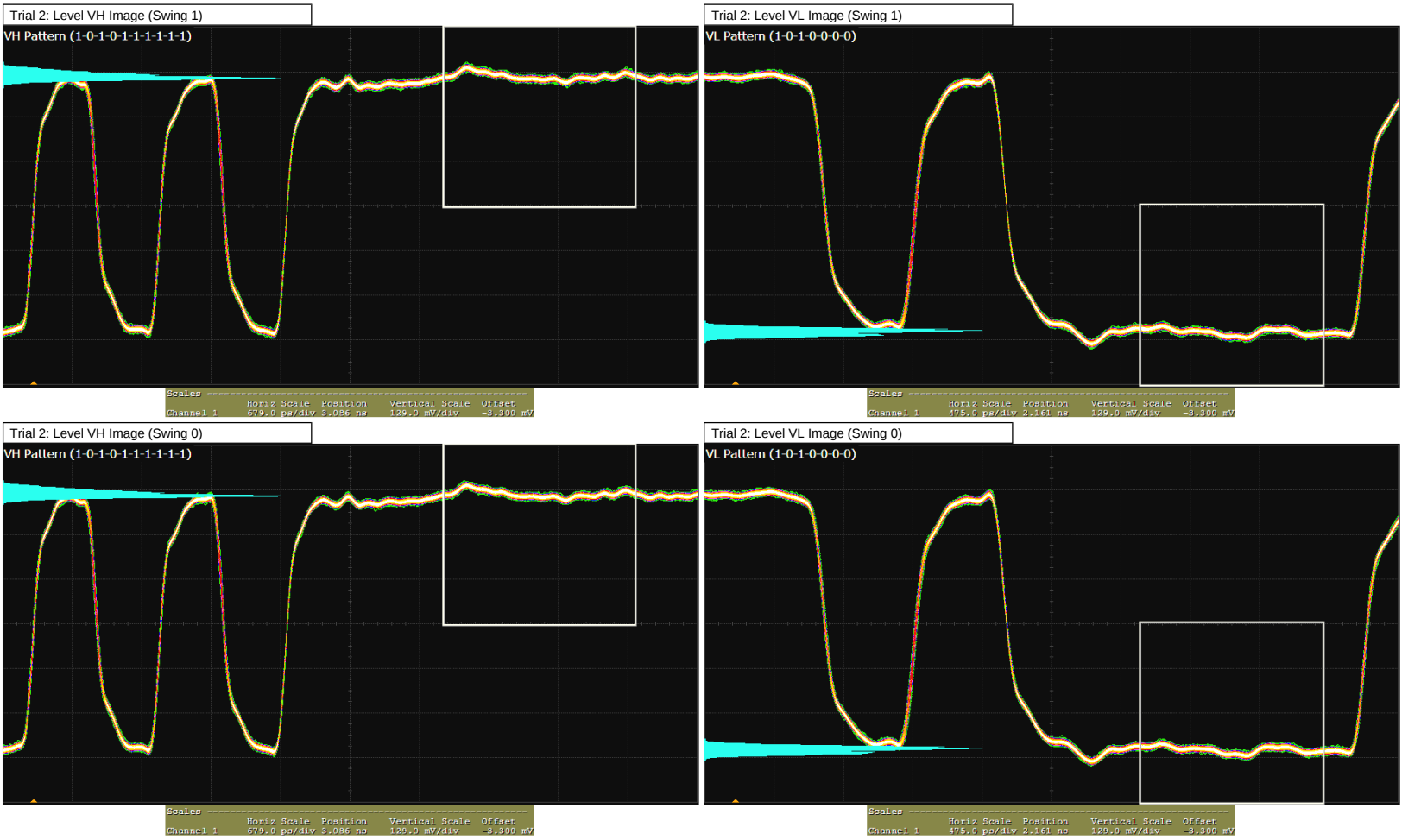
Overall Summary + details of 2 worst trials

	Trial	Actual Value	Margin	Level VH Image (Swing 1)	Level VL Image (Swing 1)	Level VH Image (Swing 0)	Level VL Image (Swing 0)	Number of UI	VH Trigger Pattern	VL Trigger Pattern	VTop (Swing 1)	VBase (Swing 1)	VSwing (Swing 1)	VTop (Swing 0)	VBase (Swing 0)	VSwing (Swing 0)	Test Mode	Test Layer	Test Condition	DUT Type	Test Type	Connection Type	BitRate	Level	PreEmphasis	SSC
Avg		-4.258 mdB	-15.47 %																							
StdDev		1.361 mdB	25.84 m%																							
Range		1.924 mdB	36.54 m%																							
Min		-5.220 mdB	-15.48 %																							
Max		-3.296 mdB	-15.45 %																							
Sum		-8.516 mdB	-30.93 %																							
	Trial 1 (Worst)	-5.2 mdB	-15.5%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	371.228 mV	-373.084 mV	744.312 mV	372.292 mV	-372.467 mV	744.760 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	2.7 Gbps	Swing 1	Pre-emphasis 0	SSC Disabled
	Trial 2	-3.3 mdB	-15.4%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	371.677 mV	-367.530 mV	739.207 mV	372.006 mV	-367.481 mV	739.487 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	1.62 Gbps	Swing 1	Pre-emphasis 0	SSC Disabled

Trial 1



Trial 2



✖

Lane 3 - Non-PreEmphasis Level Test (Swing 1/ Swing 0)

Reference: DisplayPort CTS Sec. 3.2: Table 3.10 VESA DisplayPort Standard specification

Test Summary: FAIL

Test Description: To evaluate the waveform peak differential amplitude to ensure signal is neither over, nor under driven.

Test Limits: [800.0 mdB to 6.0000 dB]

Lane 3 Non-PreEmphasis Level Test (Swing 1/Swing 0) (Worst of 2 Trials) -9.6 mdB

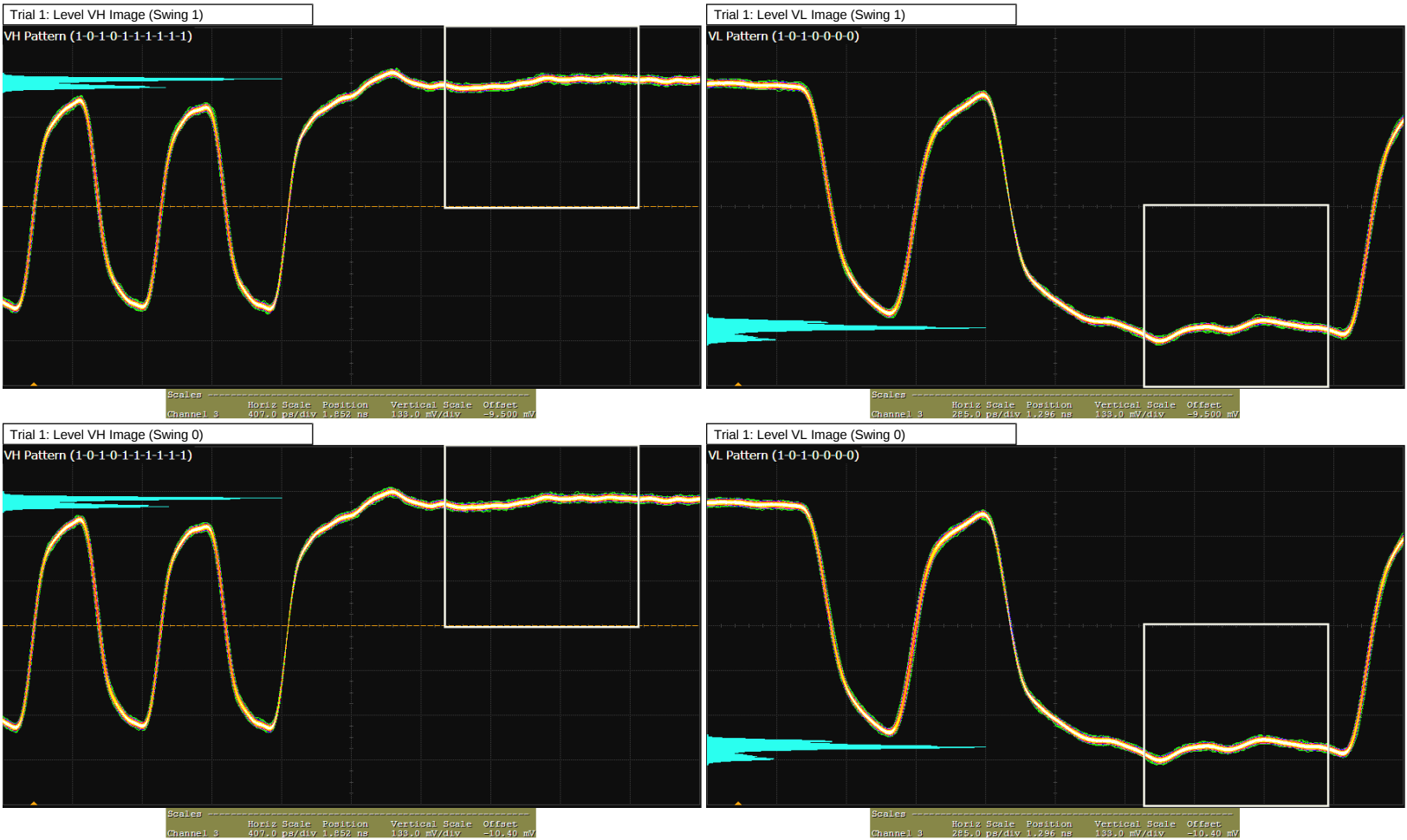
Trials Run: 2

Worst Trial: Trial 2

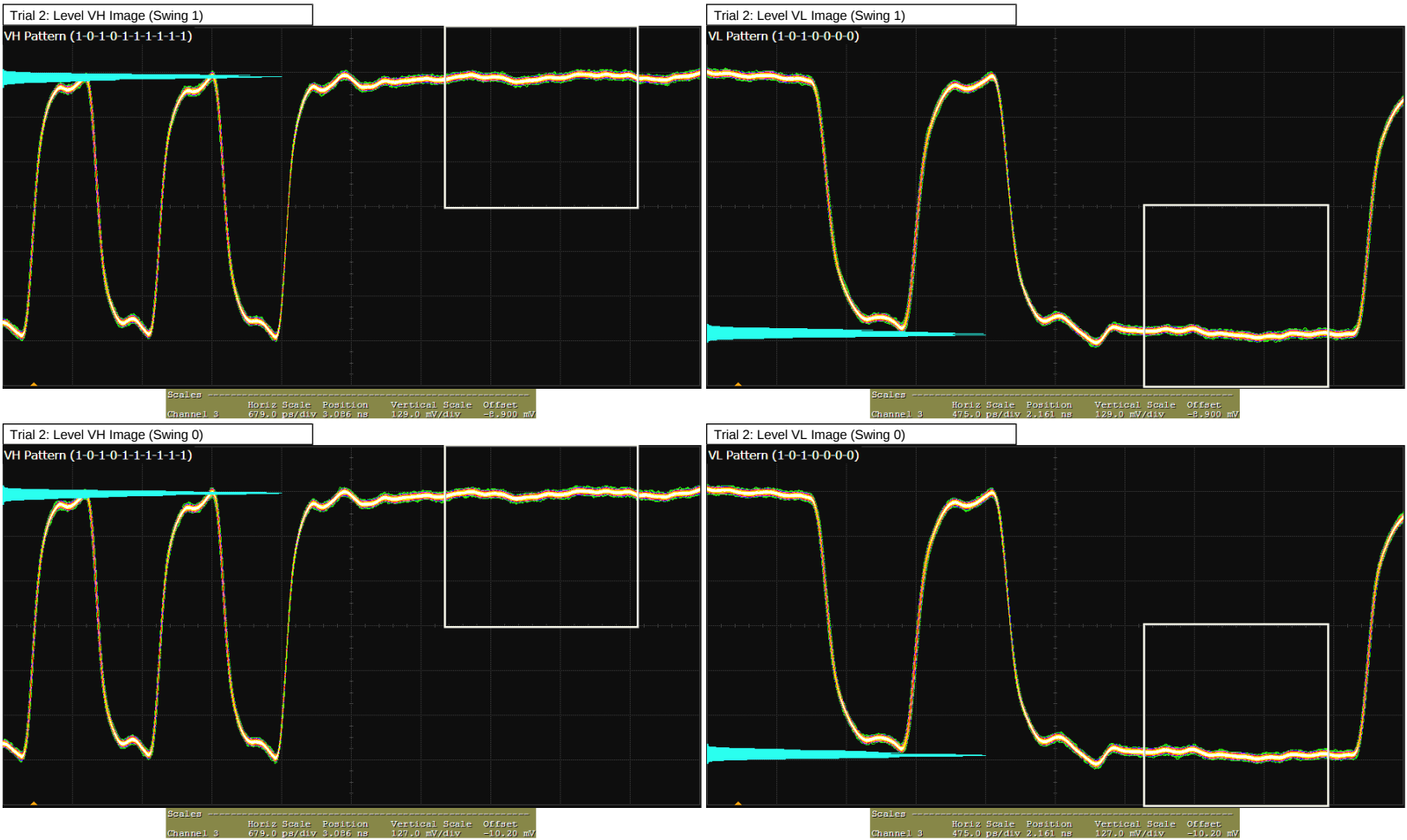
Overall Summary + details of 2 worst trials

	Trial	Actual Value	Margin	Level VH Image (Swing 1)	Level VL Image (Swing 1)	Level VH Image (Swing 0)	Level VL Image (Swing 0)	Number of UI	VH Trigger Pattern	VL Trigger Pattern	VTop (Swing 1)	VBase (Swing 1)	VSwing (Swing 1)	VTop (Swing 0)	VBase (Swing 0)	VSwing (Swing 0)	Test Mode	Test Layer	Test Condition	DUT Type	Test Type	Connection Type	BitRate	Level	PreEmphasis	SSC
	Avg	-5.288 mdB	-15.49 %																							
	StdDev	6.131 mdB	116.9 m%																							
	Range	8.671 mdB	165.4 m%																							
	Min	-9.623 mdB	-15.57 %																							
	Max	-952.2 μdB	-15.40 %																							
	Sum	-10.58 mdB	-30.97 %																							
✖	Trial 1	-1 mdB	-15.4%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	359.573 mV	-371.901 mV	731.474 mV	358.547 mV	-373.007 mV	731.554 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	2.7 Gbps	Swing 1	Pre-emphasis 0	SSC Disabled
✖	Trial 2 (Worst)	-9.6 mdB	-15.6%	(See image)	(See image)	(See image)	(See image)	1000	1010111111	1010000	364.284 mV	-374.504 mV	738.788 mV	364.090 mV	-375.517 mV	739.607 mV	Compliance	Physical Layer Tests	Compliance Conditions Only	Source	Differential Tests	Differential Probe	1.62 Gbps	Swing 1	Pre-emphasis 0	SSC Disabled

Trial 1



Trial 2



✖

Lane 2 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2)

Reference: DisplayPort CTS Sec. 3.3: Table 3.10 VESA DisplayPort Standard specification

Test Summary: FAIL

Test Description: This test evaluates the effect of pre-emphasis of the source waveform measuring peak differential amplitude assuring accuracy of pre-emphasis setting.

Test Limits: >= 1.600 dB

PreEmphasis(Pre-emphasis 2) - PreEmphasis(Pre-emphasis 1) (Worst of 4 Trials) -6 mdB

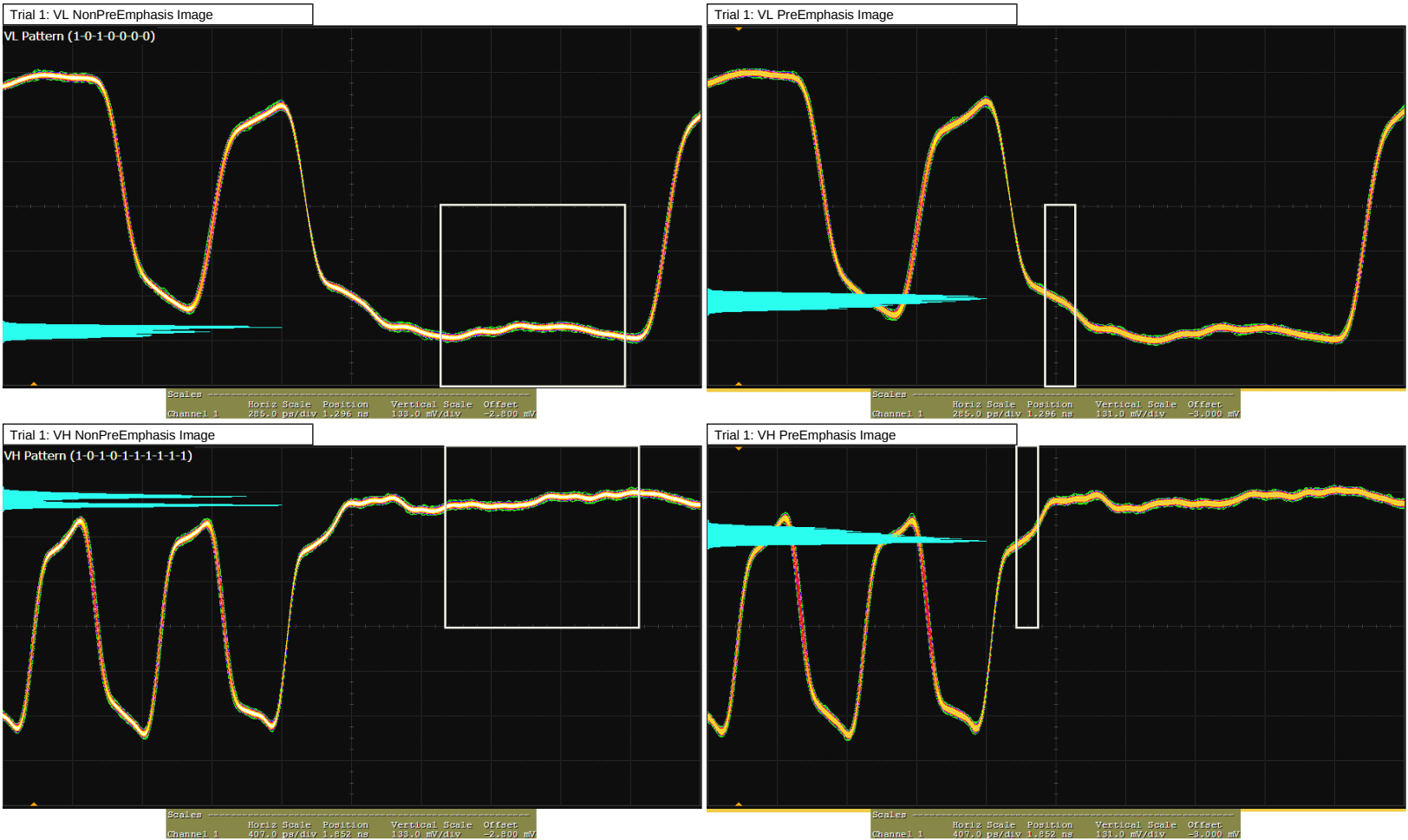
Trials Run: 4

Worst Trial: Trial 4

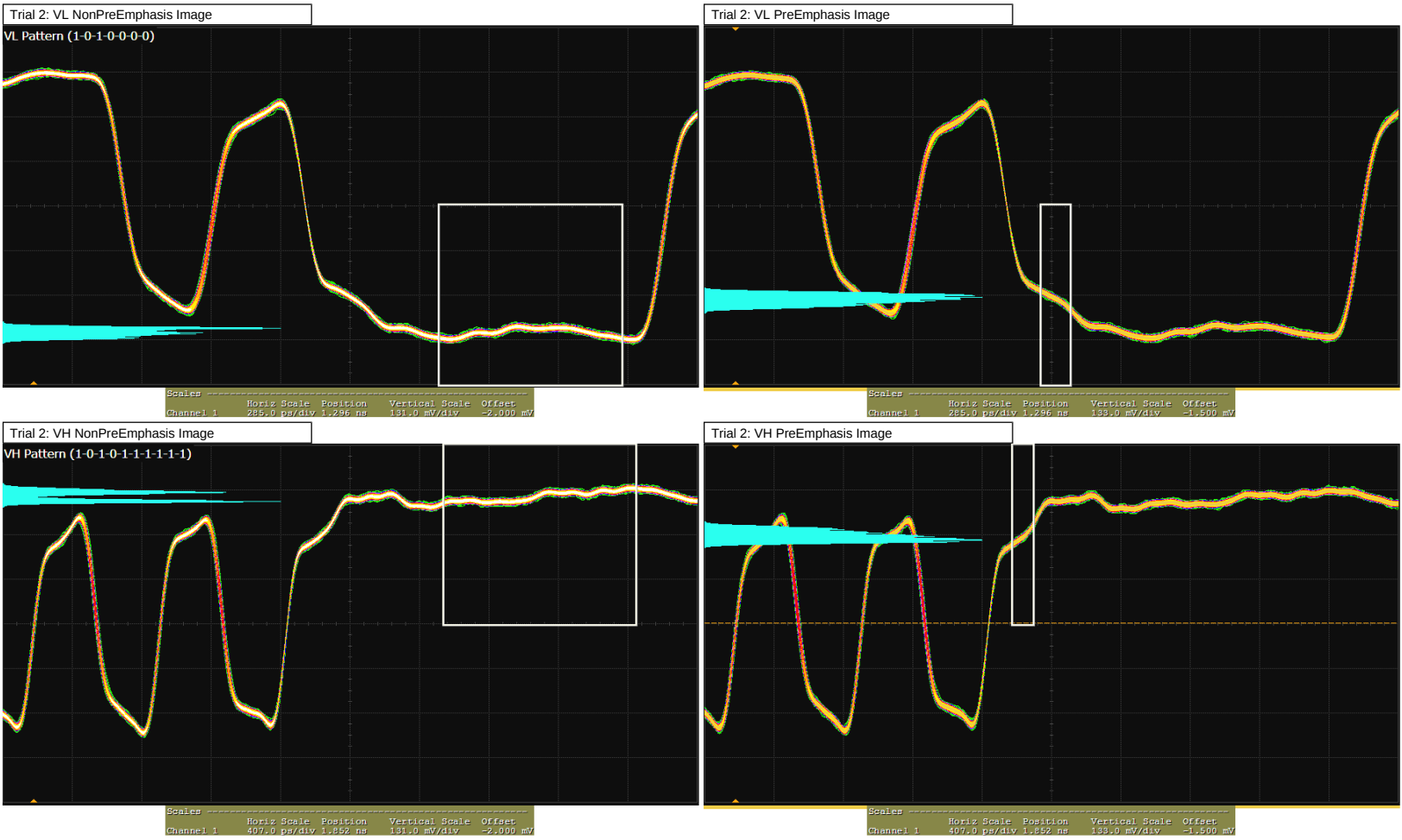
Overall Summary + details of 4 worst trials

Trial	Actual Value	Margin	VL NonPreEmphasis Image	VL PreEmphasis Image	VH NonPreEmphasis Image	VH PreEmphasis Image	Number of UI	VSwing PreEmphasis (Transition Bit)	VSwing PreEmphasis (Non Transition Bit)	PreEmphasis Result	BitRate	Level	PreEmphasis	SSC
Avg	-470.2 μ dB	-100.0 %												
StdDev	6.783 mdB	409.8 m%												
Range	15.63 mdB	937.5 m%												
Min	-6.318 mdB	-100.4 %												
Max	9.307 mdB	-99.44 %												
Sum	-1.881 mdB	-400.1 %												
✖ Trial 1	-2 mdB	-100.1%	(See image)	(See image)	(See image)	(See image)	1000	539.005 mV	745.705 mV	-2.819 dB	2.7 Gbps	Swing 1	Pre-emphasis 2	SSC Disabled
✖ Trial 2	9 mdB	-99.4%	(See image)	(See image)	(See image)	(See image)	1000	539.031 mV	745.363 mV	-2.815 dB	2.7 Gbps	Swing 0	Pre-emphasis 2	SSC Disabled
✖ Trial 3	-3 mdB	-100.2%	(See image)	(See image)	(See image)	(See image)	1000	690.428 mV	739.645 mV	-598 mdB	1.62 Gbps	Swing 1	Pre-emphasis 2	SSC Disabled
✖ Trial 4 (Worst)	-6 mdB	-100.4%	(See image)	(See image)	(See image)	(See image)	1000	690.405 mV	739.834 mV	-601 mdB	1.62 Gbps	Swing 0	Pre-emphasis 2	SSC Disabled

Trial 1



Trial 2



Trial 3

Trial 3: VL NonPreEmphasis Image



Trial 3: VL PreEmphasis Image



Trial 3: VH NonPreEmphasis Image

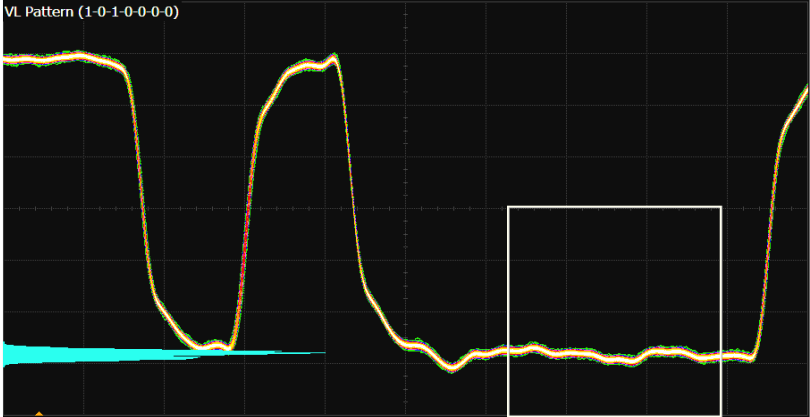


Trial 3: VH PreEmphasis Image



Trial 4

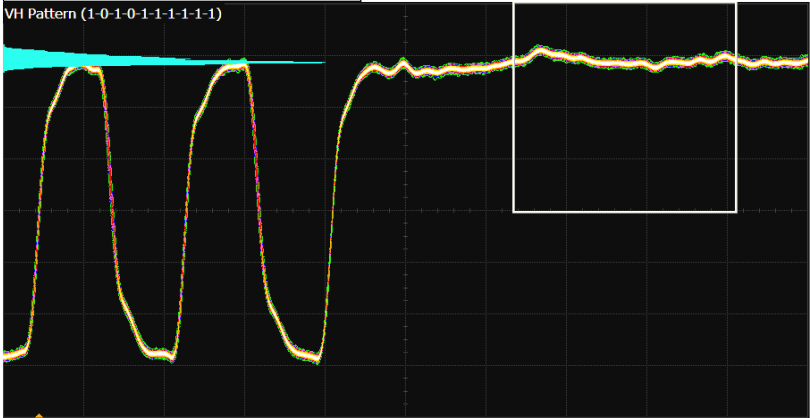
Trial 4: VL NonPreEmphasis Image



Trial 4: VL PreEmphasis Image



Trial 4: VH NonPreEmphasis Image



Trial 4: VH PreEmphasis Image



✖

Lane 3 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2)

Reference: DisplayPort CTS Sec. 3.3: Table 3.10 VESA DisplayPort Standard specification

Test Summary: FAIL

Test Description: This test evaluates the effect of pre-emphasis of the source waveform measuring peak differential amplitude assuring accuracy of pre-emphasis setting.

Test Limits: >= 1.600 dB

PreEmphasis(Pre-emphasis 2) - PreEmphasis(Pre-emphasis 1) (Worst of 4 Trials) -10 mdB

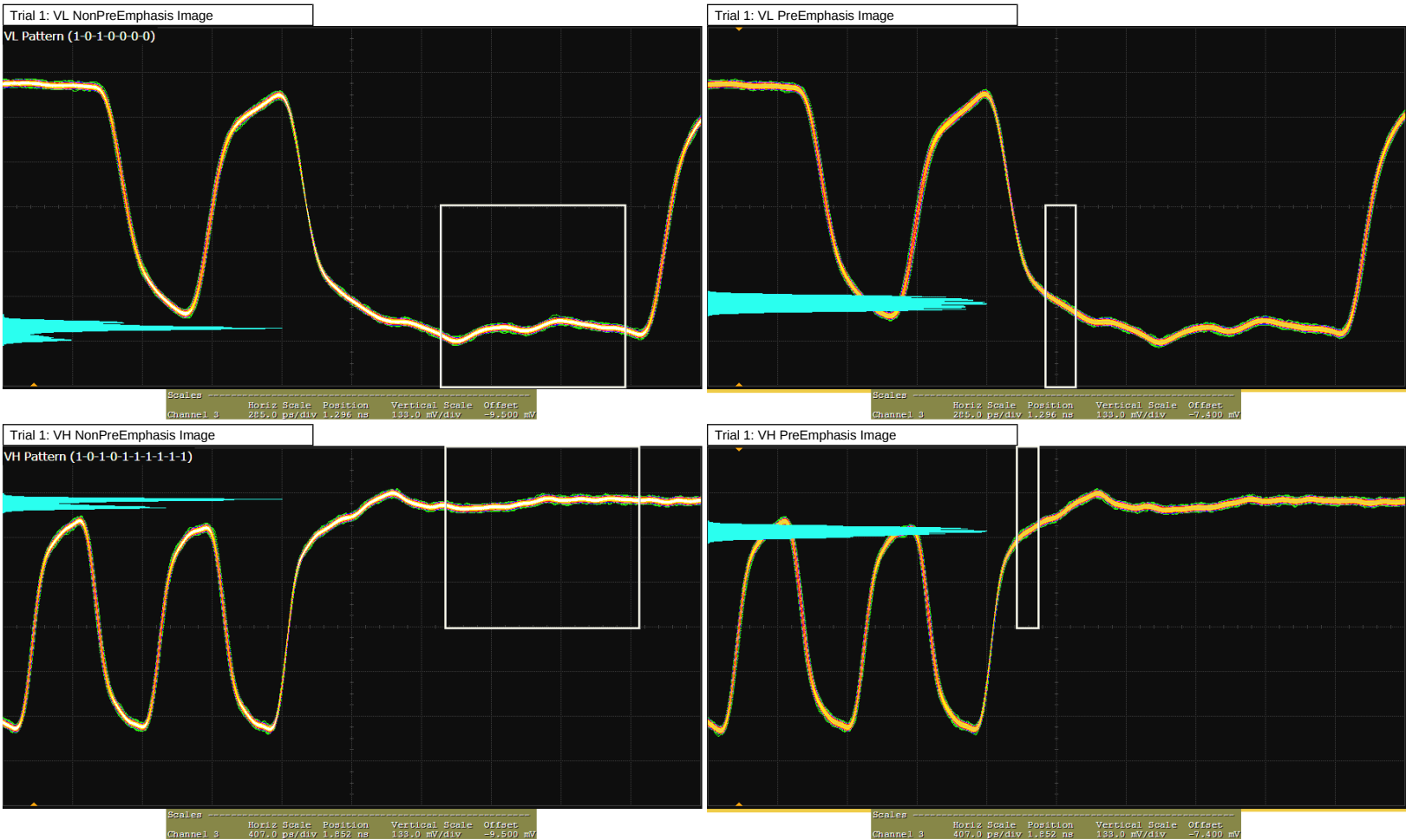
Trials Run: 4

Worst Trial: Trial 1

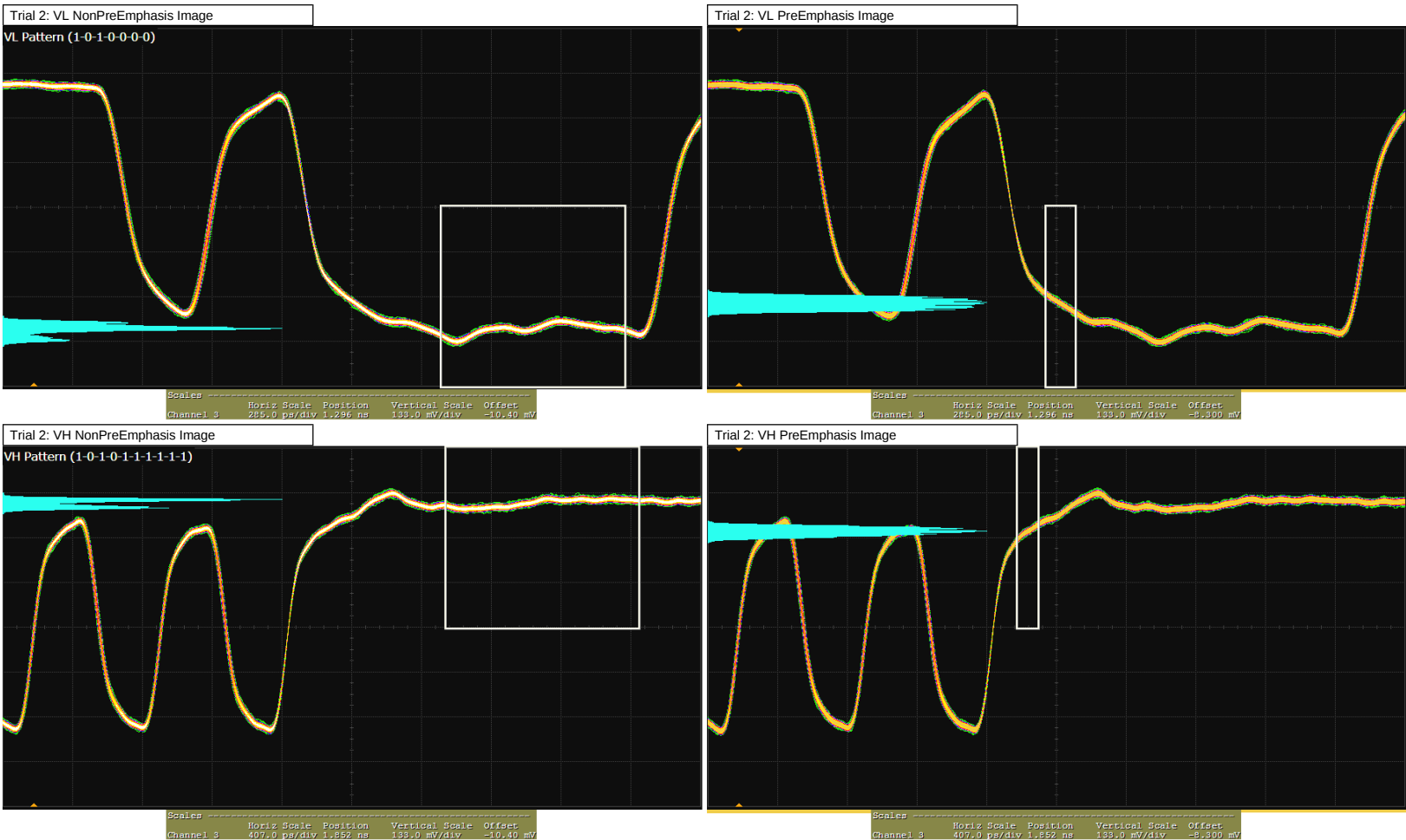
Overall Summary + details of 4 worst trials

Trial	Actual Value	Margin	VL NonPreEmphasis Image	VL PreEmphasis Image	VH NonPreEmphasis Image	VH PreEmphasis Image	Number of UI	VSwing PreEmphasis (Transition Bit)	VSwing PreEmphasis (Non Transition Bit)	PreEmphasis Result	BitRate	Level	PreEmphasis	SSC
Avg	-2.919 mdB	-100.2 %												
StdDev	4.644 mdB	312.0 m%												
Range	10.22 mdB	687.5 m%												
Min	-9.706 mdB	-100.6 %												
Max	515.3 μdB	-99.94 %												
Sum	-11.68 mdB	-400.7 %												
✖ Trial 1 (Worst)	-10 mdB	-100.6%	(See image)	(See image)	(See image)	(See image)	1000	570.187 mV	730.782 mV	-2.155 dB	2.7 Gbps	Swing 1	Pre-emphasis 2	SSC Disabled
✖ Trial 2	-500 μdB	-100.0%	(See image)	(See image)	(See image)	(See image)	1000	570.926 mV	730.937 mV	-2.146 dB	2.7 Gbps	Swing 0	Pre-emphasis 2	SSC Disabled
✖ Trial 3	-2 mdB	-100.1%	(See image)	(See image)	(See image)	(See image)	1000	665.234 mV	738.582 mV	-908 mdB	1.62 Gbps	Swing 1	Pre-emphasis 2	SSC Disabled
✖ Trial 4	500 μdB	-99.9%	(See image)	(See image)	(See image)	(See image)	1000	665.501 mV	738.501 mV	-904 mdB	1.62 Gbps	Swing 0	Pre-emphasis 2	SSC Disabled

Trial 1

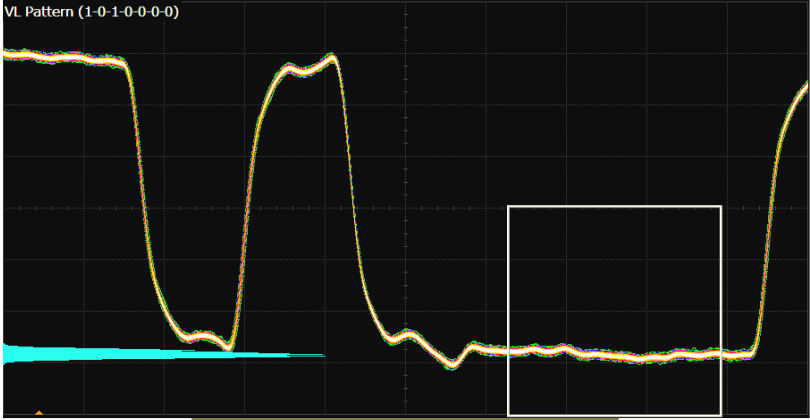


Trial 2



Trial 3

Trial 3: VL NonPreEmphasis Image



Trial 3: VL PreEmphasis Image



Trial 3: VH NonPreEmphasis Image

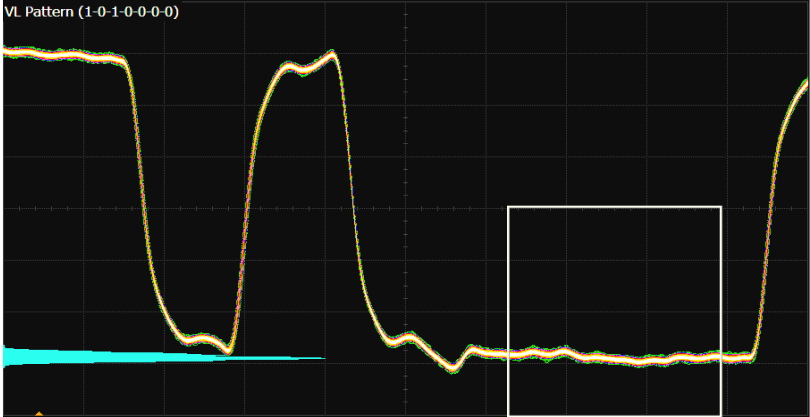


Trial 3: VH PreEmphasis Image



Trial 4

Trial 4: VL NonPreEmphasis Image



Trial 4: VL PreEmphasis Image



Trial 4: VH NonPreEmphasis Image



Trial 4: VH PreEmphasis Image



Lane 2 - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3)

Reference: DisplayPort CTS Sec. 3.3: Table 3.10 VESA DisplayPort Standard specification

Test Summary:

FAIL

Test Description: This test evaluates the effect of pre-emphasis of the source waveform measuring peak differential amplitude assuring accuracy of pre-emphasis setting.

Test Limits:

>= 1.600 dB

PreEmphasis(Pre-emphasis 3) - PreEmphasis(Pre-emphasis 2) (Worst of 2 Trials)

-10 mdB

Trials Run:

2

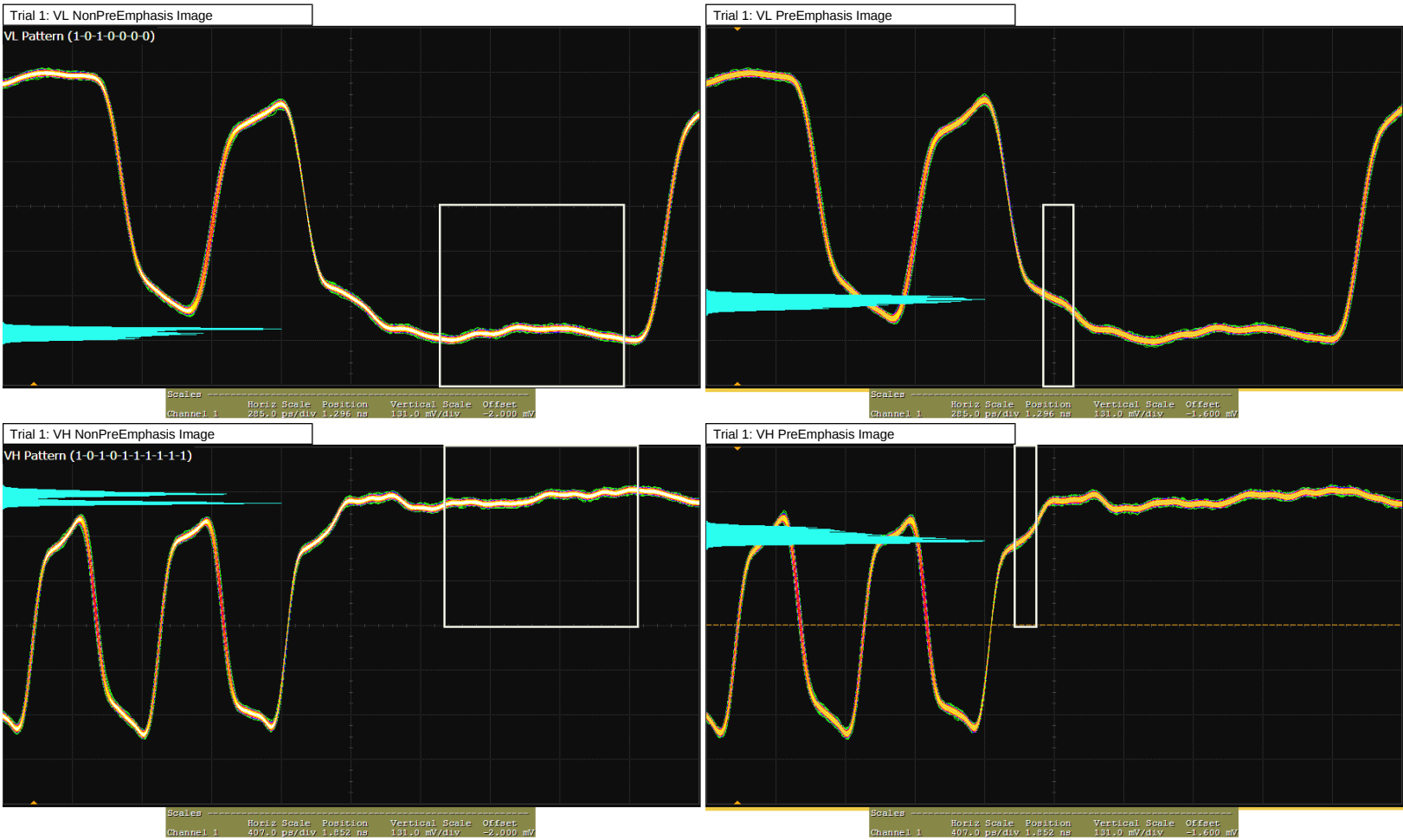
Worst Trial:

Trial 2

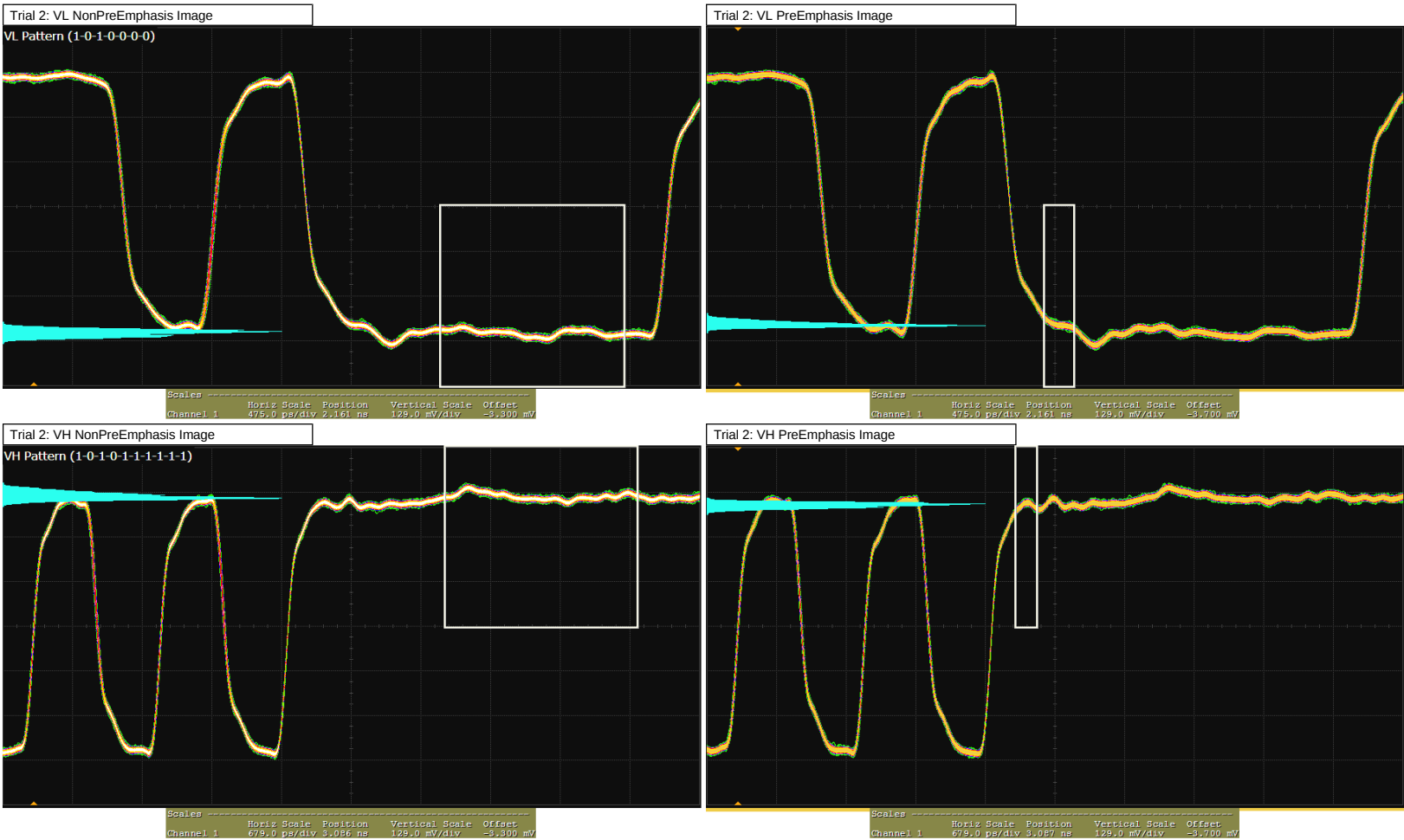
Overall Summary + details of 2 worst trials

Trial	Actual Value	Margin	VL NonPreEmphasis Image	VL PreEmphasis Image	VH NonPreEmphasis Image	VH PreEmphasis Image	Number of UI	VSwing PreEmphasis (Transition Bit)	VSwing PreEmphasis (Non Transition Bit)	PreEmphasis Result	BitRate	Level	PreEmphasis	SSC
Avg	-8.954 mdB	-100.6 %												
StdDev	1.800 mdB	88.39 m%												
Range	2.546 mdB	125.0 m%												
Min	-10.23 mdB	-100.6 %												
Max	-7.681 mdB	-100.5 %												
Sum	-17.91 mdB	-201.1 %												
Trial 1	-8 mdB	-100.5%	(See image)	(See image)	(See image)	(See image)	1000	539.249 mV	746.324 mV	-2.823 dB	2.7 Gbps	Swing 0	Pre-emphasis 3	SSC Disabled
Trial 2 (Worst)	-10 mdB	-100.6%	(See image)	(See image)	(See image)	(See image)	1000	689.553 mV	739.792 mV	-611 mdB	1.62 Gbps	Swing 0	Pre-emphasis 3	SSC Disabled

Trial 1



Trial 2



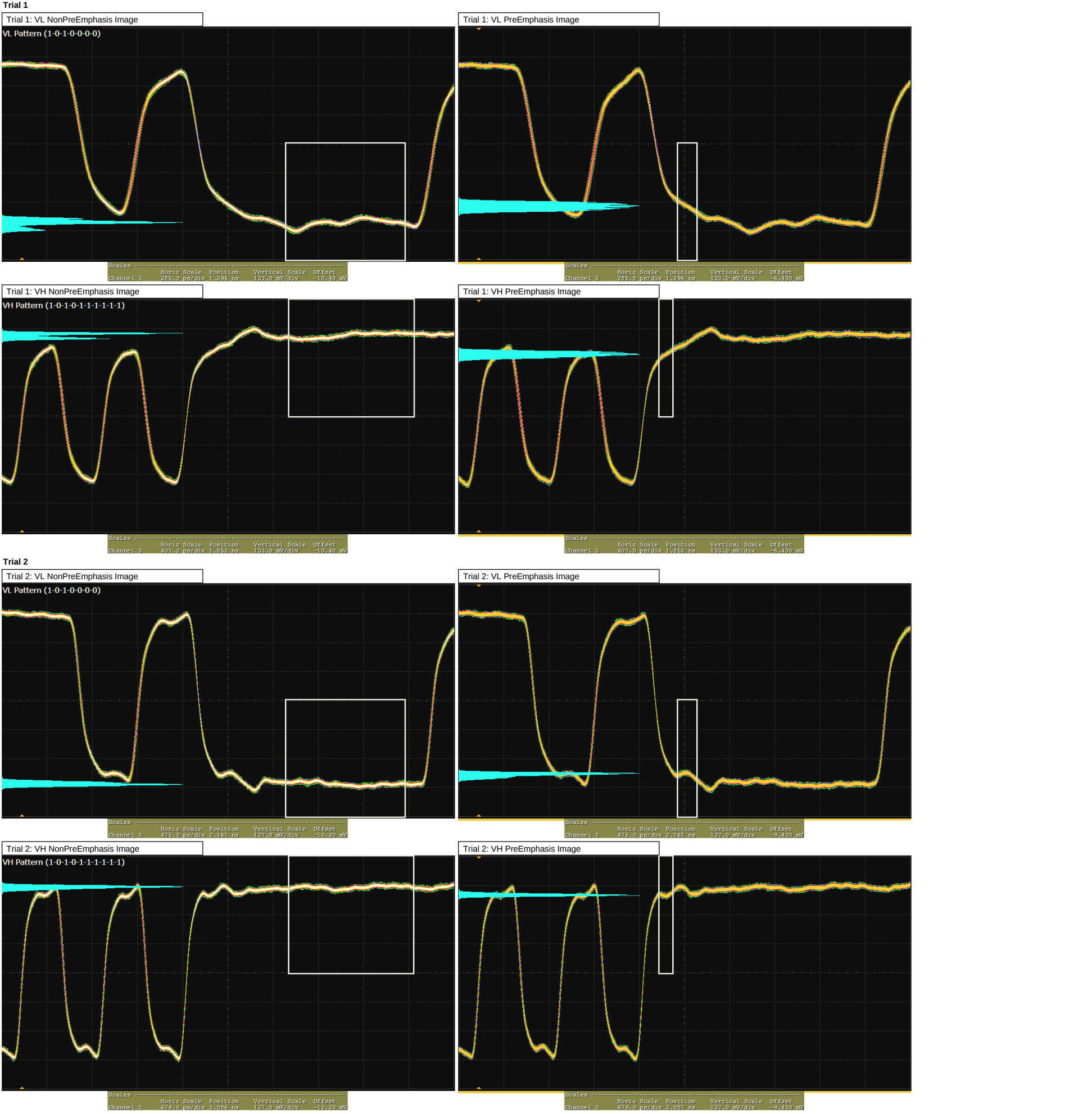
Lane 3 - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3)

Reference: DisplayPort CTS Sec. 3.3: Table 3.10 VESA DisplayPort Standard specification

Test Summary:	FAIL	Test Description:	This test evaluates the effect of pre-emphasis of the source waveform measuring peak differential amplitude assuring accuracy of pre-emphasis setting.			
Test Limits:	>= 1.600 dB	PreEmphasis(Pre-emphasis 3) - PreEmphasis(Pre-emphasis 2) (Worst of 2 Trials)	-24 mdB	# Trials Run:	2	Worst Trial: Trial 1

Overall Summary + details of 2 worst trials

Trial	Actual Value	Margin	VL NonPreEmphasis Image	VL PreEmphasis Image	VH NonPreEmphasis Image	VH PreEmphasis Image	Number of UI	VSwing PreEmphasis (Transition Bit)	VSwing PreEmphasis (Non Transition Bit)	PreEmphasis Result	BitRate	Level	PreEmphasis	SSC
Avg	-16.12 mdB	-101.0 %												
StdDev	11.22 mdB	707.1 m%												
Range	15.87 mdB	1.000 %												
Min	-24.05 mdB	-101.5 %												
Max	-8.181 mdB	-100.5 %												
Sum	-32.23 mdB	-202.0 %												
Trial 1 (Worst)	-24 mdB	-101.5%	(See image)	(See image)	(See image)	(See image)	1000	569.597 mV	731.257 mV	-2.170 dB	2.7 Gbps	Swing 0	Pre-emphasis 3	SSC Disabled
Trial 2	-8 mdB	-100.5%	(See image)	(See image)	(See image)	(See image)	1000	665.186 mV	738.847 mV	-912 mdB	1.62 Gbps	Swing 0	Pre-emphasis 3	SSC Disabled



Trial 2

Trial 2: VL NonPreEmphasis Image

VL Pattern (1-0-1-0-0-0-0)

Trial 2: VL PreEmphasis Image

VL Pattern (1-0-1-0-0-0-0)

Trial 2: VH NonPreEmphasis Image

VH Pattern (1-0-1-0-1-1-1-1-1)

Trial 2: VH PreEmphasis Image

VH Pattern (1-0-1-0-1-1-1-1-1)