Agilent Technologies

# DisplayPort Test Report

**Overall Result:** FAIL

| Test Configuration Details | |
|---|---|
| **Device Description** | |
| **Test Specification** | 1.2b |
| **Test Session Details** | |
| **Fixture Type** | Agilent W2641B |
| **Infiniium SW Version** | 04.60.0023 |
| **Infiniium Model Number** | DSO91304A |
| **Infiniium Serial Number** | MY52260152 |
| **Application SW Version** | 3.40 |
| **Debug Mode Used** | No |
| **Probe (Channel 1)** | Model: 1169A<br>Serial: US55012851<br>Head: N5380A/B<br>Atten: Calibrated (20 MAR 2017 21:04:14), Using Cal Atten (2.0430E+000)<br>Skew: Calibrated (20 MAR 2017 21:04:21), Using Cal Skew |
| **Probe (Channel 2)** | Model: 1169A<br>Serial: US49413004<br>Head: N5380A/B<br>Atten: Calibrated (17 MAR 2017 19:06:59), Using Cal Atten (1.9949E+000)<br>Skew: Calibrated (17 MAR 2017 19:07:05), Using Cal Skew |
| **Probe (Channel 3)** | Model: 1169A<br>Serial: US49413002<br>Head: N5380A/B<br>Atten: Calibrated (17 MAR 2017 19:07:42), Using Cal Atten (2.0137E+000)<br>Skew: Calibrated (17 MAR 2017 19:07:48), Using Cal Skew |
| **Probe (Channel 4)** | Model: 1169A<br>Serial: US49413755<br>Head: N5380A/B<br>Atten: Calibrated (17 MAR 2017 19:08:20), Using Cal Atten (2.1402E+000)<br>Skew: Calibrated (17 MAR 2017 19:08:26), Using Cal Skew |
| **Last Test Date** | 2017-03-21 20:51:01 UTC +08:00 |

## Summary of Results

| Test Statistics | |
|---|---|
| Failed | 15 |
| Passed | 151 |
| Total | 166 |

| Margin Thresholds | |
|---|---|
| Warning | < 2 % |
| Critical | < 0 % |

| Pass | # Failed | # Trials | Test Name | Worst Actual | Worst Margin | Pass Limits |
|---|---|---|---|---|---|---|
| ✓ | 0 | 1 | Lane 0/ Lane 1 - Inter Pair Skew Test | 20.0117 UI | 49.9 % | 13.3000 UI <= VALUE <= 26.7000 UI |
| ✓ | 0 | 1 | Lane 0/ Lane 2 - Inter Pair Skew Test | 39.8551 UI | 48.9 % | 33.3000 UI <= VALUE <= 46.7000 UI |
| ✓ | 0 | 1 | Lane 0/ Lane 3 - Inter Pair Skew Test | 59.9906 UI | 49.9 % | 53.3000 UI <= VALUE <= 66.7000 UI |
| ✓ | 0 | 1 | Lane 1/ Lane 2 - Inter Pair Skew Test | 19.8471 UI | 48.9 % | 13.3000 UI <= VALUE <= 26.7000 UI |
| ✓ | 0 | 1 | Lane 1/ Lane 3 - Inter Pair Skew Test | 39.9957 UI | 50.0 % | 33.3000 UI <= VALUE <= 46.7000 UI |
| ✓ | 0 | 1 | Lane 2/ Lane 3 - Inter Pair Skew Test | 20.1414 UI | 48.9 % | 13.3000 UI <= VALUE <= 26.7000 UI |
| ✓ | 0 | 1 | Lane 0 - D10.2 Total Jitter Test (TP3_EQ) | 108.700 mUI | 72.8 % | VALUE <= 400.000 mUI |
| ✓ | 0 | 1 | Lane 1 - D10.2 Total Jitter Test (TP3_EQ) | 95.500 mUI | 76.1 % | VALUE <= 400.000 mUI |
| ✓ | 0 | 1 | Lane 2 - D10.2 Total Jitter Test (TP3_EQ) | 100.000 mUI | 75.0 % | VALUE <= 400.000 mUI |
| ✓ | 0 | 1 | Lane 3 - D10.2 Total Jitter Test (TP3_EQ) | 102.600 mUI | 74.4 % | VALUE <= 400.000 mUI |
| ✓ | 0 | 1 | Lane 0 - D10.2 Deterministic Jitter (TP3_EQ) | 43.800 mUI | 82.5 % | VALUE <= 250.000 mUI |
| ✓ | 0 | 1 | Lane 1 - D10.2 Deterministic Jitter (TP3_EQ) | 32.200 mUI | 87.1 % | VALUE <= 250.000 mUI |
| ✓ | 0 | 1 | Lane 2 - D10.2 Deterministic Jitter (TP3_EQ) | 36.300 mUI | 85.5 % | VALUE <= 250.000 mUI |
| ✓ | 0 | 1 | Lane 3 - D10.2 Deterministic Jitter (TP3_EQ) | 37.800 mUI | 84.9 % | VALUE <= 250.000 mUI |
| ✓ | 0 | 1 | Lane 0 - D10.2 Random Jitter (TP3_EQ) | 5.300 mUI | 97.7 % | VALUE <= 230.000 mUI |
| ✓ | 0 | 1 | Lane 1 - D10.2 Random Jitter (TP3_EQ) | 5.200 mUI | 97.7 % | VALUE <= 230.000 mUI |
| ✓ | 0 | 1 | Lane 2 - D10.2 Random Jitter (TP3_EQ) | 5.200 mUI | 97.7 % | VALUE <= 230.000 mUI |
| ✓ | 0 | 1 | Lane 3 - D10.2 Random Jitter (TP3_EQ) | 5.300 mUI | 97.7 % | VALUE <= 230.000 mUI |
| ✓ | 0 | 3 | Lane 0 - Main Link Frequency Compliance | 5.457 ppm | 5.3 % | -5.300000 kppm <= VALUE <= 300.000 ppm |
| ✓ | 0 | 3 | Lane 1 - Main Link Frequency Compliance | -2.778 ppm | 5.4 % | -5.300000 kppm <= VALUE <= 300.000 ppm |
| ✓ | 0 | 3 | Lane 2 - Main Link Frequency Compliance | 5.861 ppm | 5.3 % | -5.300000 kppm <= VALUE <= 300.000 ppm |
| ✓ | 0 | 3 | Lane 3 - Main Link Frequency Compliance | 6.049 ppm | 5.2 % | -5.300000 kppm <= VALUE <= 300.000 ppm |
| ✓ | 0 | 1 | Lane 0 - HBR2CPAT Eye Diagram Test (TP3_EQ) | 0.000 | 50.0 % | -500 m <= VALUE <= 500 m |
| ✓ | 0 | 1 | Lane 1 - HBR2CPAT Eye Diagram Test (TP3_EQ) | 0.000 | 50.0 % | -500 m <= VALUE <= 500 m |
| ✓ | 0 | 1 | Lane 2 - HBR2CPAT Eye Diagram Test (TP3_EQ) | 0.000 | 50.0 % | -500 m <= VALUE <= 500 m |
| ✓ | 0 | 1 | Lane 3 - HBR2CPAT Eye Diagram Test (TP3_EQ) | 0.000 | 50.0 % | -500 m <= VALUE <= 500 m |
| ✓ | 0 | 1 | Lane 0 - HBR2CPAT Total Jitter Test (TP3_EQ) | 262.600 mUI | 54.7 % | VALUE <= 580.000 mUI |
| ✓ | 0 | 1 | Lane 1 - HBR2CPAT Total Jitter Test (TP3_EQ) | 286.700 mUI | 50.6 % | VALUE <= 580.000 mUI |
| ✓ | 0 | 1 | Lane 2 - HBR2CPAT Total Jitter Test (TP3_EQ) | 300.000 mUI | 48.3 % | VALUE <= 580.000 mUI |
| ✓ | 0 | 1 | Lane 3 - HBR2CPAT Total Jitter Test (TP3_EQ) | 289.700 mUI | 50.1 % | VALUE <= 580.000 mUI |
| ✓ | 0 | 1 | Lane 0 - HBR2CPAT Deterministic Jitter Test (TP3_EQ) | 168.200 mUI | 65.7 % | VALUE <= 490.000 mUI |
| ✓ | 0 | 1 | Lane 1 - HBR2CPAT Deterministic Jitter Test (TP3_EQ) | 191.500 mUI | 60.9 % | VALUE <= 490.000 mUI |
| ✓ | 0 | 1 | Lane 2 - HBR2CPAT Deterministic Jitter Test (TP3_EQ) | 205.100 mUI | 58.1 % | VALUE <= 490.000 mUI |
| ✓ | 0 | 1 | Lane 3 - HBR2CPAT Deterministic Jitter Test (TP3_EQ) | 194.500 mUI | 60.3 % | VALUE <= 490.000 mUI |
| ✓ | 0 | 9 | Lane 0 - PLTPAT - Peak to Peak Voltage Test | 1.081 V | 21.7 % | VALUE <= 1.380 V |
| ✓ | 0 | 10 | Lane 1 - PLTPAT - Peak to Peak Voltage Test | 1.093 V | 20.8 % | VALUE <= 1.380 V |
| ✓ | 0 | 10 | Lane 2 - PLTPAT - Peak to Peak Voltage Test | 1.091 V | 20.9 % | VALUE <= 1.380 V |
| ✓ | 0 | 10 | Lane 3 - PLTPAT - Peak to Peak Voltage Test | 1.099 V | 20.4 % | VALUE <= 1.380 V |
| ✓ | 0 | 1 | Lane 0 - PLTPAT - Non-PreEmphasis Level Test (Swing 2/ Swing 0) | 5.7342 dB | 31.4 % | 5.2000 dB <= VALUE <= 6.9000 dB |
| ✓ | 0 | 1 | Lane 0 - PLTPAT - Non-PreEmphasis Level Test (Swing 2/ Swing 1) | 2.6962 dB | 42.3 % | 1.6000 dB <= VALUE <= 3.5000 dB |
| ✓ | 0 | 1 | Lane 1 - PLTPAT - Non-PreEmphasis Level Test (Swing 2/ Swing 0) | 5.6800 dB | 28.2 % | 5.2000 dB <= VALUE <= 6.9000 dB |
| ✓ | 0 | 1 | Lane 1 - PLTPAT - Non-PreEmphasis Level Test (Swing 2/ Swing 1) | 2.6135 dB | 46.7 % | 1.6000 dB <= VALUE <= 3.5000 dB |
| ✓ | 0 | 1 | Lane 2 - PLTPAT - Non-PreEmphasis Level Test (Swing 2/ Swing 0) | 5.4931 dB | 17.2 % | 5.2000 dB <= VALUE <= 6.9000 dB |
| ✓ | 0 | 1 | Lane 2 - PLTPAT - Non-PreEmphasis Level Test (Swing 2/ Swing 1) | 2.5816 dB | 48.3 % | 1.6000 dB <= VALUE <= 3.5000 dB |
| ✓ | 0 | 1 | Lane 3 - PLTPAT - Non-PreEmphasis Level Test (Swing 2/ Swing 0) | 5.9114 dB | 41.8 % | 5.2000 dB <= VALUE <= 6.9000 dB |
| ✓ | 0 | 1 | Lane 3 - PLTPAT - Non-PreEmphasis Level Test (Swing 2/ Swing 1) | 2.7417 dB | 39.9 % | 1.6000 dB <= VALUE <= 3.5000 dB |
| ✓ | 0 | 4 | Lane 0 - PLTPAT - Pre-Emphasis Level Test (Pre-emphasis 0) | -2.285 dB | 101E+01 % | VALUE <= 250 mdB |
| ✓ | 0 | 4 | Lane 1 - PLTPAT - Pre-Emphasis Level Test (Pre-emphasis 0) | -1.541 dB | 716.4 % | VALUE <= 250 mdB |
| ✓ | 0 | 4 | Lane 2 - PLTPAT - Pre-Emphasis Level Test (Pre-emphasis 0) | -1.789 dB | 815.6 % | VALUE <= 250 mdB |
| ✓ | 0 | 4 | Lane 3 - PLTPAT - Pre-Emphasis Level Test (Pre-emphasis 0) | -1.785 dB | 814.0 % | VALUE <= 250 mdB |
| ✓ | 0 | 3 | Lane 0 - PLTPAT - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0) | 5.464 dB | 173.2 % | VALUE >= 2.000 dB |
| ✗ | 3 | 3 | Lane 1 - PLTPAT - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0) | -53 mdB | **-102.7 %** | VALUE >= 2.000 dB |
| ✓ | 0 | 3 | Lane 2 - PLTPAT - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0) | 3.622 dB | 81.1 % | VALUE >= 2.000 dB |
| ✗ | 3 | 3 | Lane 3 - PLTPAT - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0) | -109 mdB | **-105.5 %** | VALUE >= 2.000 dB |
| ✓ | 0 | 1 | Lane 0 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 2) | 744 m | 5.1 % | VALUE >= 708 m |
| ✓ | 0 | 1 | Lane 1 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 2) | 1.134 | 60.2 % | VALUE >= 708 m |
| ✓ | 0 | 1 | Lane 2 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 2) | 900 m | 27.1 % | VALUE >= 708 m |
| ✓ | 0 | 1 | Lane 3 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 2) | 1.124 | 58.8 % | VALUE >= 708 m |
| ✗ | 2 | 2 | Lane 0 - PLTPAT - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2) | -2.523 dB | **-257.7 %** | VALUE >= 1.600 dB |
| ✓ | 0 | 2 | Lane 1 - PLTPAT - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2) | 3.337 dB | 108.6 % | VALUE >= 1.600 dB |
| ✓ | 0 | 2 | Lane 2 - PLTPAT - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2) | 2.109 dB | 31.8 % | VALUE >= 1.600 dB |
| ✗ | 2 | 2 | Lane 3 - PLTPAT - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2) | 155 mdB | **-90.3 %** | VALUE >= 1.600 dB |
| ✓ | 0 | 1 | Lane 0 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 1) | 835 m | 17.9 % | VALUE >= 708 m |
| ✓ | 0 | 1 | Lane 1 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 1) | 1.151 | 62.6 % | VALUE >= 708 m |
| ✓ | 0 | 1 | Lane 2 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 1) | 947 m | 33.8 % | VALUE >= 708 m |
| ✓ | 0 | 1 | Lane 3 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 1) | 1.229 | 73.6 % | VALUE >= 708 m |
| ✓ | 0 | 1 | Lane 0 - D10.2 Total Jitter Test with No Cable Model (TP3_EQ) | 104.600 mUI | 73.9 % | VALUE <= 400.000 mUI |
| ✓ | 0 | 1 | Lane 1 - D10.2 Total Jitter Test with No Cable Model (TP3_EQ) | 85.200 mUI | 78.7 % | VALUE <= 400.000 mUI |
| ✓ | 0 | 1 | Lane 2 - D10.2 Total Jitter Test with No Cable Model (TP3_EQ) | 96.300 mUI | 75.9 % | VALUE <= 400.000 mUI |
| ✓ | 0 | 1 | Lane 3 - D10.2 Total Jitter Test with No Cable Model (TP3_EQ) | 100.400 mUI | 74.9 % | VALUE <= 400.000 mUI |
| ✓ | 0 | 1 | Lane 0 - D10.2 Deterministic Jitter with No Cable (TP3_EQ) | 33.700 mUI | 86.5 % | VALUE <= 250.000 mUI |

| | | | | | | |
|---|---|---|---|---|---|---|
| ✓ | 0 | 1 | Lane 1 - D10.2 Deterministic Jitter with No Cable (TP3_EQ) | 17.100 mUI | 93.2 % | VALUE <= 250.000 mUI |
| ✓ | 0 | 1 | Lane 2 - D10.2 Deterministic Jitter with No Cable (TP3_EQ) | 28.100 mUI | 88.8 % | VALUE <= 250.000 mUI |
| ✓ | 0 | 1 | Lane 3 - D10.2 Deterministic Jitter with No Cable (TP3_EQ) | 33.000 mUI | 86.8 % | VALUE <= 250.000 mUI |
| ✓ | 0 | 1 | Lane 0 - D10.2 Random Jitter with No Cable (TP3_EQ) | 5.800 mUI | 97.5 % | VALUE <= 230.000 mUI |
| ✓ | 0 | 1 | Lane 1 - D10.2 Random Jitter with No Cable (TP3_EQ) | 5.600 mUI | 97.6 % | VALUE <= 230.000 mUI |
| ✓ | 0 | 1 | Lane 2 - D10.2 Random Jitter with No Cable (TP3_EQ) | 5.600 mUI | 97.6 % | VALUE <= 230.000 mUI |
| ✓ | 0 | 1 | Lane 3 - D10.2 Random Jitter with No Cable (TP3_EQ) | 5.500 mUI | 97.6 % | VALUE <= 230.000 mUI |
| ✓ | 0 | 1 | Lane 0 - HBR2CPAT Eye Diagram Test with No Cable (TP3_EQ) | 0.000 | 50.0 % | -500 m <= VALUE <= 500 m |
| ✓ | 0 | 1 | Lane 1 - HBR2CPAT Eye Diagram Test with No Cable (TP3_EQ) | 0.000 | 50.0 % | -500 m <= VALUE <= 500 m |
| ✓ | 0 | 1 | Lane 2 - HBR2CPAT Eye Diagram Test with No Cable (TP3_EQ) | 0.000 | 50.0 % | -500 m <= VALUE <= 500 m |
| ✓ | 0 | 1 | Lane 3 - HBR2CPAT Eye Diagram Test with No Cable (TP3_EQ) | 0.000 | 50.0 % | -500 m <= VALUE <= 500 m |
| ✓ | 0 | 1 | Lane 0 - HBR2CPAT Total Jitter Test with No Cable (TP3_EQ) | 275.300 mUI | 52.5 % | VALUE <= 580.000 mUI |
| ✓ | 0 | 1 | Lane 1 - HBR2CPAT Total Jitter Test with No Cable (TP3_EQ) | 277.600 mUI | 52.1 % | VALUE <= 580.000 mUI |
| ✓ | 0 | 1 | Lane 2 - HBR2CPAT Total Jitter Test with No Cable (TP3_EQ) | 282.200 mUI | 51.3 % | VALUE <= 580.000 mUI |
| ✓ | 0 | 1 | Lane 3 - HBR2CPAT Total Jitter Test with No Cable (TP3_EQ) | 301.300 mUI | 48.1 % | VALUE <= 580.000 mUI |
| ✓ | 0 | 1 | Lane 0 - HBR2CPAT Deterministic Jitter Test with No Cable (TP3_EQ) | 172.500 mUI | 64.8 % | VALUE <= 490.000 mUI |
| ✓ | 0 | 1 | Lane 1 - HBR2CPAT Deterministic Jitter Test with No Cable (TP3_EQ) | 166.600 mUI | 66.0 % | VALUE <= 490.000 mUI |
| ✓ | 0 | 1 | Lane 2 - HBR2CPAT Deterministic Jitter Test with No Cable (TP3_EQ) | 177.400 mUI | 63.8 % | VALUE <= 490.000 mUI |
| ✓ | 0 | 1 | Lane 3 - HBR2CPAT Deterministic Jitter Test with No Cable (TP3_EQ) | 202.600 mUI | 58.7 % | VALUE <= 490.000 mUI |
| ✗ | 1 | 1 | Lane 0 - PLTPAT - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3) | -87 mdB | **-105.4 %** | VALUE >= 1.600 dB |
| ✗ | 1 | 1 | Lane 1 - PLTPAT - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3) | -3.393 dB | **-312.1 %** | VALUE >= 1.600 dB |
| ✗ | 1 | 1 | Lane 2 - PLTPAT - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3) | -6.295 dB | **-493.4 %** | VALUE >= 1.600 dB |
| ✓ | 0 | 1 | Lane 3 - PLTPAT - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3) | 3.230 dB | 101.9 % | VALUE >= 1.600 dB |
| ✓ | 0 | 1 | Lane 0 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 0) | 1.164 | 36.9 % | VALUE >= 850 m |
| ✓ | 0 | 1 | Lane 1 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 0) | 1.160 | 36.5 % | VALUE >= 850 m |
| ✓ | 0 | 1 | Lane 2 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 0) | 957 m | 12.6 % | VALUE >= 850 m |
| ✓ | 0 | 1 | Lane 3 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 0) | 1.439 | 69.3 % | VALUE >= 850 m |
| ✓ | 0 | 1 | Lane 0 - PLTPAT - Non-PreEmphasis Level Test (Swing 3/ Swing 2) | 1.9634 dB | 28.3 % | 1.0000 dB <= VALUE <= 4.4000 dB |
| ✓ | 0 | 1 | Lane 1 - PLTPAT - Non-PreEmphasis Level Test (Swing 3/ Swing 2) | 1.9420 dB | 27.7 % | 1.0000 dB <= VALUE <= 4.4000 dB |
| ✓ | 0 | 1 | Lane 2 - PLTPAT - Non-PreEmphasis Level Test (Swing 3/ Swing 2) | 1.8821 dB | 25.9 % | 1.0000 dB <= VALUE <= 4.4000 dB |
| ✓ | 0 | 1 | Lane 3 - PLTPAT - Non-PreEmphasis Level Test (Swing 3/ Swing 2) | 2.0353 dB | 30.5 % | 1.0000 dB <= VALUE <= 4.4000 dB |
| ✓ | 0 | 20 | Lane 0 - Peak to Peak Voltage Test | 1.172 V | 15.1 % | VALUE <= 1.380 V |
| ✓ | 0 | 20 | Lane 1 - Peak to Peak Voltage Test | 1.180 V | 14.5 % | VALUE <= 1.380 V |
| ✓ | 0 | 20 | Lane 2 - Peak to Peak Voltage Test | 1.176 V | 14.8 % | VALUE <= 1.380 V |
| ✓ | 0 | 20 | Lane 3 - Peak to Peak Voltage Test | 1.154 V | 16.4 % | VALUE <= 1.380 V |
| ✓ | 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 | 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 | 4 | Lane 0 - Total Jitter Test (High BitRate) | 118.700 mUI | 71.7 % | VALUE <= 420.000 mUI |
| ✓ | 0 | 4 | Lane 1 - Total Jitter Test (High BitRate) | 114.100 mUI | 72.8 % | VALUE <= 420.000 mUI |
| ✓ | 0 | 4 | Lane 2 - Total Jitter Test (High BitRate) | 122.700 mUI | 70.8 % | VALUE <= 420.000 mUI |
| ✓ | 0 | 4 | Lane 3 - Total Jitter Test (High BitRate) | 111.800 mUI | 73.4 % | VALUE <= 420.000 mUI |
| ✓ | 0 | 4 | Lane 0 - Non-ISI Jitter Test (High BitRate) | 78.2000 mUI | 71.7 % | VALUE <= 276.0000 mUI |
| ✓ | 0 | 4 | Lane 1 - Non-ISI Jitter Test (High BitRate) | 70.2000 mUI | 74.6 % | VALUE <= 276.0000 mUI |
| ✓ | 0 | 4 | Lane 2 - Non-ISI Jitter Test (High BitRate) | 69.5000 mUI | 74.8 % | VALUE <= 276.0000 mUI |
| ✓ | 0 | 4 | Lane 3 - Non-ISI Jitter Test (High BitRate) | 73.3000 mUI | 73.4 % | VALUE <= 276.0000 mUI |
| ✓ | 0 | 2 | Lane 0 - Non-PreEmphasis Level Test (Swing 2/ Swing 1) | 2.6131 dB | 49.7 % | 100.0 mdB <= VALUE <= 5.1000 dB |
| ✓ | 0 | 2 | Lane 1 - Non-PreEmphasis Level Test (Swing 2/ Swing 1) | 2.5650 dB | 49.3 % | 100.0 mdB <= VALUE <= 5.1000 dB |
| ✓ | 0 | 2 | Lane 2 - Non-PreEmphasis Level Test (Swing 2/ Swing 1) | 2.5002 dB | 48.0 % | 100.0 mdB <= VALUE <= 5.1000 dB |
| ✓ | 0 | 2 | Lane 3 - Non-PreEmphasis Level Test (Swing 2/ Swing 1) | 2.6964 dB | 48.1 % | 100.0 mdB <= VALUE <= 5.1000 dB |
| ✓ | 0 | 8 | Lane 0 - Pre-Emphasis Level Test (Pre-emphasis 0) | -546 mdB | 318.4 % | VALUE <= 250 mdB |
| ✓ | 0 | 8 | Lane 1 - Pre-Emphasis Level Test (Pre-emphasis 0) | -514 mdB | 305.6 % | VALUE <= 250 mdB |
| ✓ | 0 | 8 | Lane 2 - Pre-Emphasis Level Test (Pre-emphasis 0) | -641 mdB | 356.4 % | VALUE <= 250 mdB |
| ✓ | 0 | 8 | Lane 3 - Pre-Emphasis Level Test (Pre-emphasis 0) | -727 mdB | 390.8 % | VALUE <= 250 mdB |
| ✓ | 0 | 6 | Lane 0 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0) | 5.253 dB | 162.7 % | VALUE >= 2.000 dB |
| ✗ | 6 | 6 | Lane 1 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0) | 15 mdB | **-99.3 %** | VALUE >= 2.000 dB |
| ✓ | 0 | 6 | Lane 2 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0) | 3.021 dB | 51.1 % | VALUE >= 2.000 dB |
| ✗ | 6 | 6 | Lane 3 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 0) | -600 µdB | **-100.1 %** | VALUE >= 2.000 dB |
| ✓ | 0 | 2 | Lane 0 - Non-Transition Voltage Range Measurement (Swing 2) | 726 m | 2.5 % | VALUE >= 708 m |
| ✓ | 0 | 2 | Lane 1 - Non-Transition Voltage Range Measurement (Swing 2) | 1.113 | 57.2 % | VALUE >= 708 m |
| ✓ | 0 | 2 | Lane 2 - Non-Transition Voltage Range Measurement (Swing 2) | 885 m | 25.0 % | VALUE >= 708 m |
| ✓ | 0 | 2 | Lane 3 - Non-Transition Voltage Range Measurement (Swing 2) | 1.123 | 58.6 % | VALUE >= 708 m |
| ✓ | 0 | 2 | Lane 0 - Non-PreEmphasis Level Test (Swing 1/ Swing 0) | 3.0355 dB | 43.0 % | 800.0 mdB <= VALUE <= 6.0000 dB |
| ✓ | 0 | 2 | Lane 1 - Non-PreEmphasis Level Test (Swing 1/ Swing 0) | 3.0377 dB | 43.0 % | 800.0 mdB <= VALUE <= 6.0000 dB |
| ✓ | 0 | 2 | Lane 2 - Non-PreEmphasis Level Test (Swing 1/ Swing 0) | 2.9466 dB | 41.3 % | 800.0 mdB <= VALUE <= 6.0000 dB |
| ✓ | 0 | 2 | Lane 3 - Non-PreEmphasis Level Test (Swing 1/ Swing 0) | 3.1453 dB | 45.1 % | 800.0 mdB <= VALUE <= 6.0000 dB |
| ✗ | 4 | 4 | Lane 0 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2) | -2.424 dB | **-251.5 %** | VALUE >= 1.600 dB |
| ✓ | 0 | 4 | Lane 1 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2) | 3.026 dB | 89.1 % | VALUE >= 1.600 dB |
| ✓ | 0 | 4 | Lane 2 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2) | 2.133 dB | 33.3 % | VALUE >= 1.600 dB |
| ✗ | 4 | 4 | Lane 3 - Pre-Emphasis Level Delta Test (Pre-emphasis 1 to Pre-emphasis 2) | 25 mdB | **-98.4 %** | VALUE >= 1.600 dB |
| ✓ | 0 | 2 | Lane 0 - Non-Transition Voltage Range Measurement (Swing 1) | 818 m | 15.5 % | VALUE >= 708 m |
| ✓ | 0 | 2 | Lane 1 - Non-Transition Voltage Range Measurement (Swing 1) | 1.118 | 57.9 % | VALUE >= 708 m |
| ✓ | 0 | 2 | Lane 2 - Non-Transition Voltage Range Measurement (Swing 1) | 900 m | 27.1 % | VALUE >= 708 m |
| ✓ | 0 | 2 | Lane 3 - Non-Transition Voltage Range Measurement (Swing 1) | 1.222 | 72.6 % | VALUE >= 708 m |
| ✗ | 2 | 2 | Lane 0 - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3) | -235 mdB | **-114.7 %** | VALUE >= 1.600 dB |
| ✗ | 2 | 2 | Lane 1 - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3) | -3.200 dB | **-300.0 %** | VALUE >= 1.600 dB |
| ✗ | 2 | 2 | Lane 2 - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3) | -5.641 dB | **-452.6 %** | VALUE >= 1.600 dB |
| ✓ | 0 | 2 | Lane 3 - Pre-Emphasis Level Delta Test (Pre-emphasis 2 to Pre-emphasis 3) | 3.149 dB | 96.8 % | VALUE >= 1.600 dB |
| ✗ | 2 | 2 | Lane 0 - Non-Transition Voltage Range Measurement (Swing 0) | 814 m | **-4.2 %** | VALUE >= 850 m |
| ✓ | 0 | 2 | Lane 1 - Non-Transition Voltage Range Measurement (Swing 0) | 1.140 | 34.1 % | VALUE >= 850 m |

| | | | | | | |
|---|---|---|---|---|---|---|
| ✓ | 0 | 2 | Lane 2 - Non-Transition Voltage Range Measurement (Swing 0) | 945 m | 11.2 % | VALUE >= 850 m |
| ✓ | 0 | 2 | Lane 3 - Non-Transition Voltage Range Measurement (Swing 0) | 1.231 | 44.8 % | VALUE >= 850 m |
| ✓ | 0 | 2 | Lane 0 - Non-PreEmphasis Level Test (Swing 3/ Swing 2) | 1.8316 dB | 19.8 % | 800.0 mdB <= VALUE <= 6.0000 dB |
| ✓ | 0 | 2 | Lane 1 - Non-PreEmphasis Level Test (Swing 3/ Swing 2) | 1.8212 dB | 19.6 % | 800.0 mdB <= VALUE <= 6.0000 dB |
| ✓ | 0 | 2 | Lane 2 - Non-PreEmphasis Level Test (Swing 3/ Swing 2) | 1.6330 dB | 16.0 % | 800.0 mdB <= VALUE <= 6.0000 dB |
| ✓ | 0 | 2 | Lane 3 - Non-PreEmphasis Level Test (Swing 3/ Swing 2) | 1.8759 dB | 20.7 % | 800.0 mdB <= VALUE <= 6.0000 dB |
| ✓ | 0 | 4 | Lane 0 - Total Jitter Test (Low BitRate) | 99.200 mUI | 63.3 % | VALUE <= 270.000 mUI |
| ✓ | 0 | 4 | Lane 1 - Total Jitter Test (Low BitRate) | 108.100 mUI | 60.0 % | VALUE <= 270.000 mUI |
| ✓ | 0 | 4 | Lane 2 - Total Jitter Test (Low BitRate) | 101.200 mUI | 62.5 % | VALUE <= 270.000 mUI |
| ✓ | 0 | 4 | Lane 3 - Total Jitter Test (Low BitRate) | 93.600 mUI | 65.3 % | VALUE <= 270.000 mUI |
| ✓ | 0 | 4 | Lane 0 - Non-ISI Jitter Test (Low BitRate) | 80.9000 mUI | 61.5 % | VALUE <= 210.0000 mUI |
| ✓ | 0 | 4 | Lane 1 - Non-ISI Jitter Test (Low BitRate) | 80.8000 mUI | 61.5 % | VALUE <= 210.0000 mUI |
| ✓ | 0 | 4 | Lane 2 - Non-ISI Jitter Test (Low BitRate) | 76.3000 mUI | 63.7 % | VALUE <= 210.0000 mUI |
| ✓ | 0 | 4 | Lane 3 - Non-ISI Jitter Test (Low BitRate) | 76.9000 mUI | 63.4 % | VALUE <= 210.0000 mUI |

## Report Detail

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### Lane 0/ Lane 1 - Inter Pair Skew Test

*Reference: DisplayPort CTS Sec. 3.4: Table 3.10 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the skew, or time delay, between respective differential data lanes in the DisplayPort interface.

**Pass Limits:** [13.3000 UI to 26.7000 UI] **Lane 0/ Lane 1- Inter Pair Skew Test** 20.0117 UI

**Result Details**

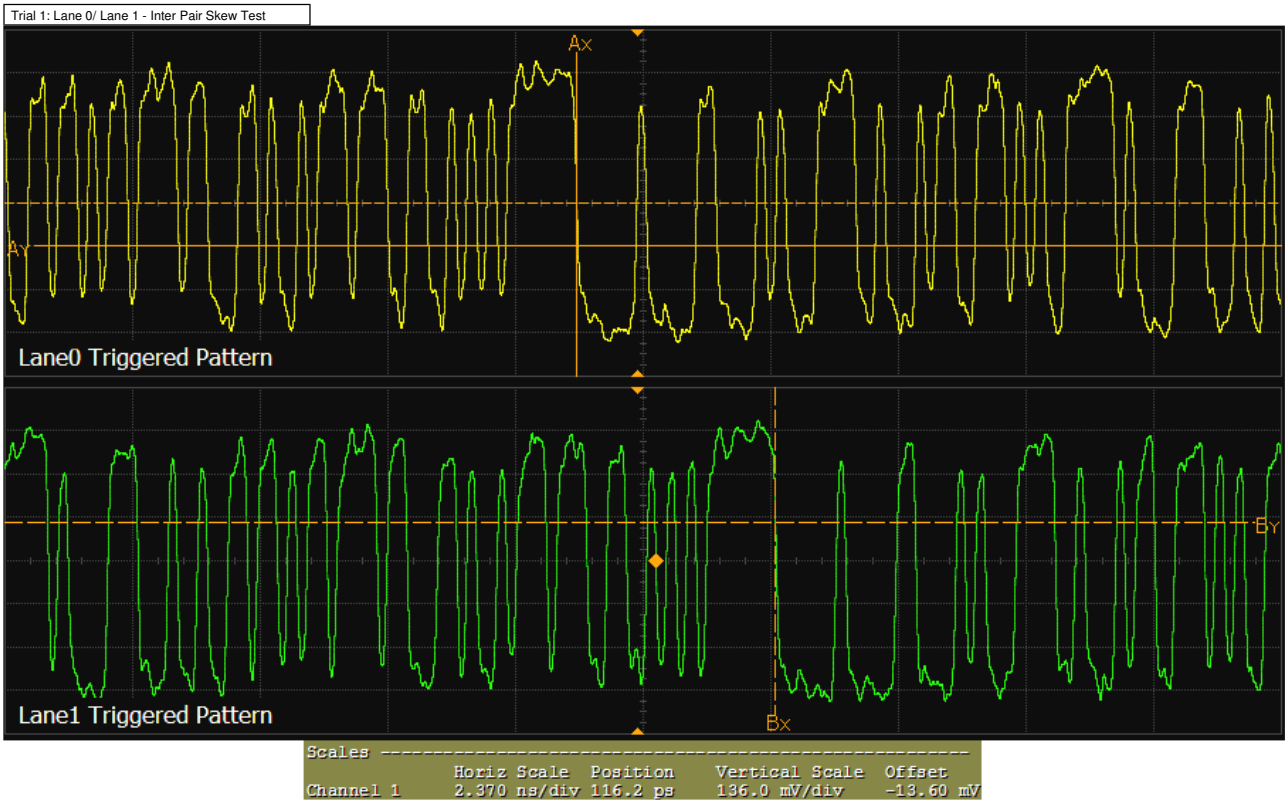
**Lane 0/ Lane 1 - Inter Pair Skew Test** (See image) **Inter-Pair Skew Edges** 100 **VTop** 288.900 mV **VBase** -391.100 mV **VSwing** 680.000 mV **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Lane 0/ Lane 1 - Inter Pair Skew Test




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 2.370 ns/div | 116.2 ps | 136.0 mV/div | -13.60 mV |

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### Lane 0/ Lane 2 - Inter Pair Skew Test

*Reference: DisplayPort CTS Sec. 3.4: Table 3.10 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the skew, or time delay, between respective differential data lanes in the DisplayPort interface.

**Pass Limits:** [33.3000 UI to 46.7000 UI] **Lane 0/ Lane 2- Inter Pair Skew Test** 39.8551 UI

**Result Details**

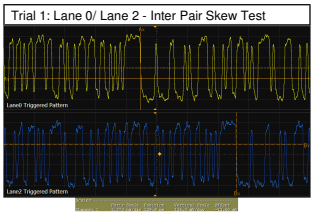
**Lane 0/ Lane 2 - Inter Pair Skew Test** (See image) **Inter-Pair Skew Edges** 100 **VTop** 288.900 mV **VBase** -391.100 mV **VSwing** 680.000 mV **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Lane 0/ Lane 2 - Inter Pair Skew Test



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### Lane 0/ Lane 3 - Inter Pair Skew Test

*Reference: DisplayPort CTS Sec. 3.4: Table 3.10 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the skew, or time delay, between respective differential data lanes in the DisplayPort interface.

**Pass Limits:** [53.3000 UI to 66.7000 UI] **Lane 0/ Lane 3- Inter Pair Skew Test** 59.9906 UI

**Result Details**

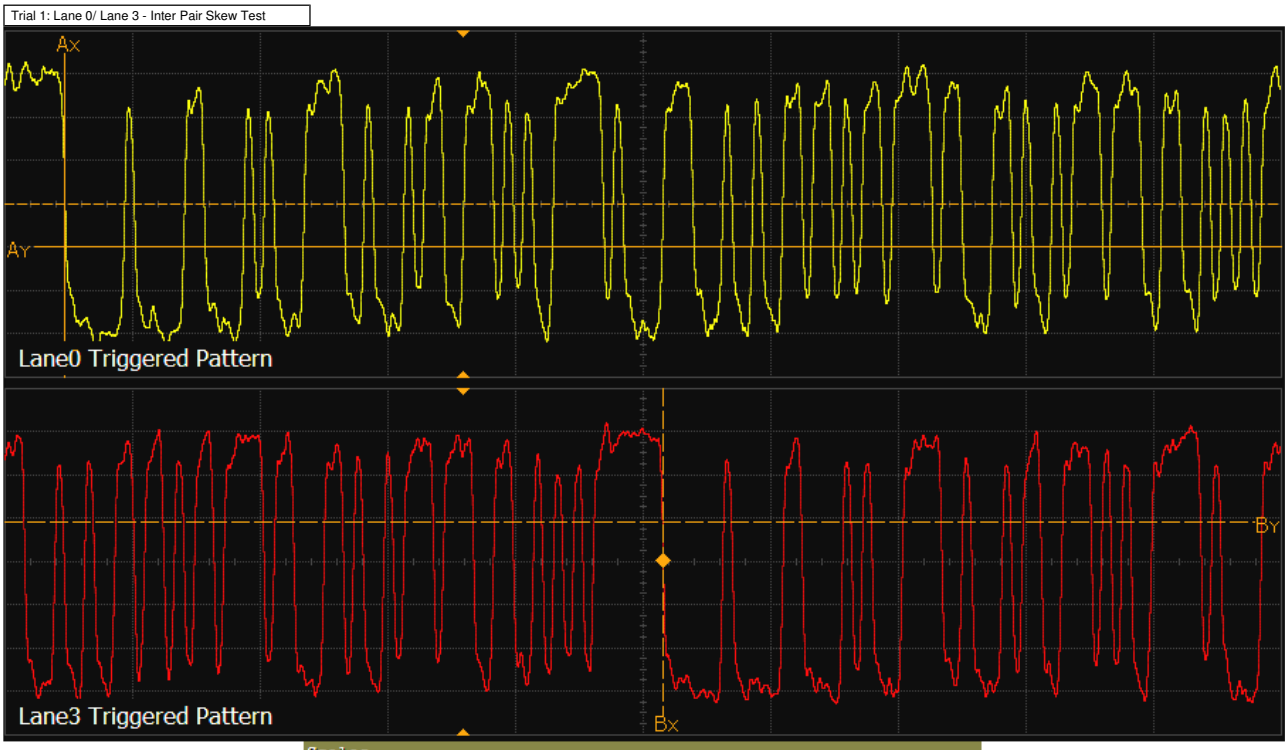
**Lane 0/ Lane 3 - Inter Pair Skew Test** (See image) **Inter-Pair Skew Edges** 100 **VTop** 288.900 mV **VBase** -391.100 mV **VSwing** 680.000 mV **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Lane 0/ Lane 3 - Inter Pair Skew Test




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 2.370 ns/div | 3.331 ns | 136.0 mV/div | -13.60 mV |

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## Lane 1/ Lane 2 - Inter Pair Skew Test

*Reference: DisplayPort CTS Sec. 3.4: Table 3.10 VESA DisplayPort Standard specification*

Test Summary: Pass

Test Description: To evaluate the skew, or time delay, between respective differential data lanes in the DisplayPort interface.

**Pass Limits:** [13.3000 UI to 26.7000 UI] **Lane 1/ Lane 2- Inter Pair Skew Test** 19.8471 UI

**Result Details**

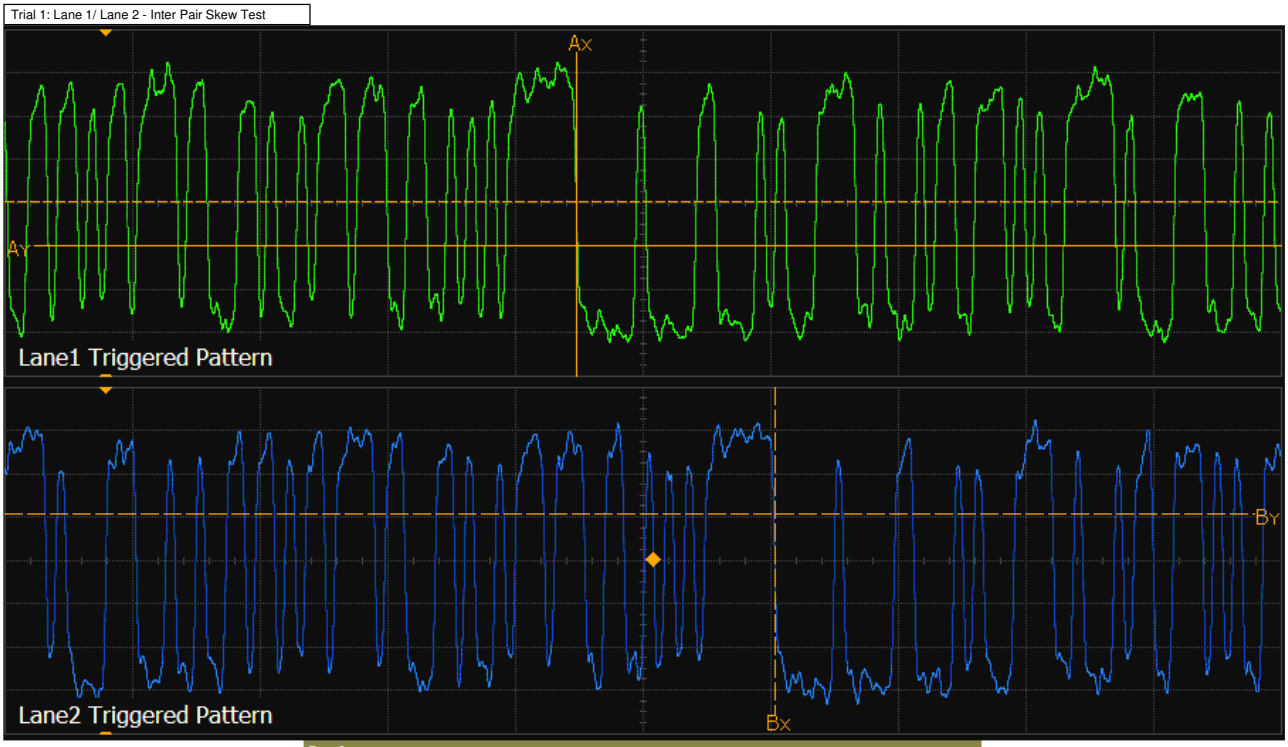
**Lane 1/ Lane 2 - Inter Pair Skew Test** (See image) | **Inter-Pair Skew Edges** 100 | **VTop** 360.410 mV | **VBase** -396.370 mV | **VSwing** 756.780 mV | **Test Mode** Compliance

**Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Lane 1/ Lane 2 - Inter Pair Skew Test




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 2.370 ns/div | 9.957 ns | 140.0 mV/div | 2.200 mV |

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## Lane 1/ Lane 3 - Inter Pair Skew Test

*Reference: DisplayPort CTS Sec. 3.4: Table 3.10 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the skew, or time delay, between respective differential data lanes in the DisplayPort interface.

**Pass Limits:** [33.3000 UI to 46.7000 UI] **Lane 1/ Lane 3- Inter Pair Skew Test** 39.9957 UI

**Result Details**

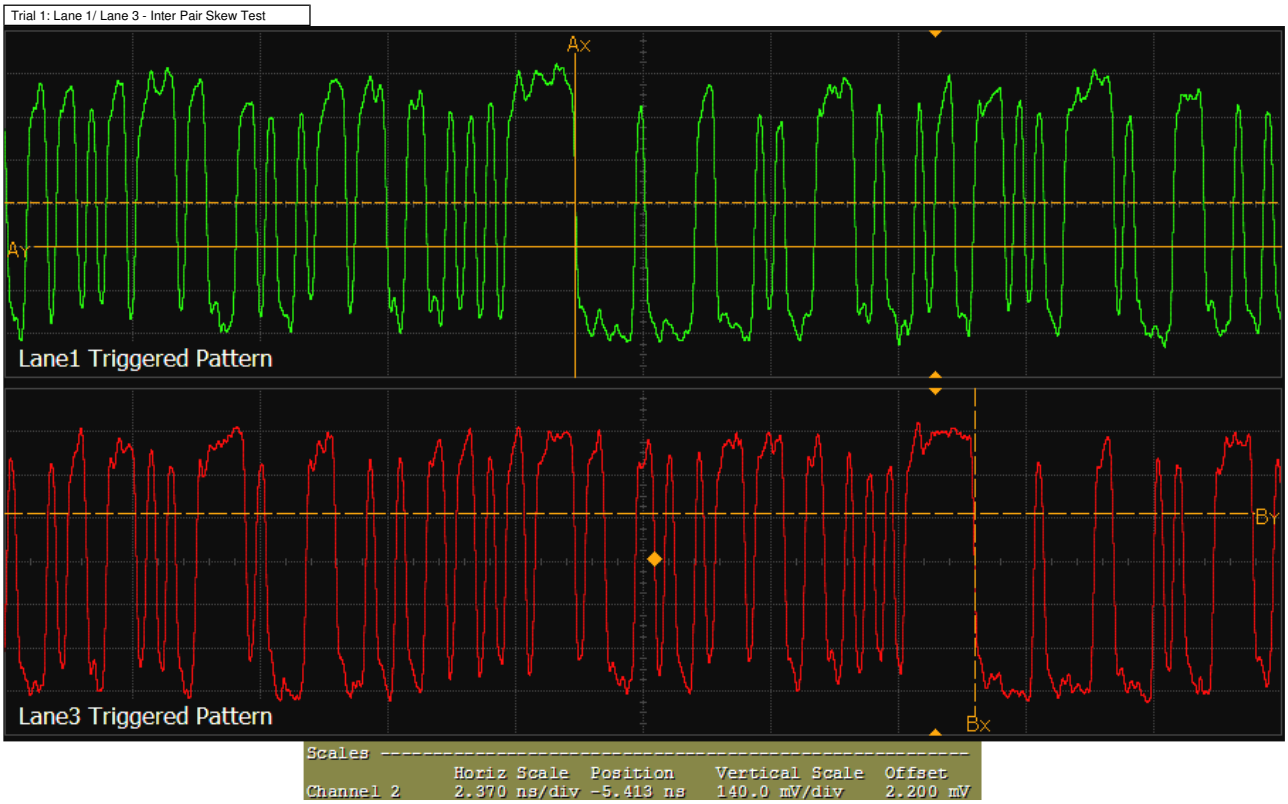
**Lane 1/ Lane 3 - Inter Pair Skew Test** (See image) **Inter-Pair Skew Edges** 100 **VTop** 360.410 mV **VBase** -396.370 mV **VSwing** 756.780 mV **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Lane 1/ Lane 3 - Inter Pair Skew Test

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## Lane 2/ Lane 3 - Inter Pair Skew Test

*Reference: DisplayPort CTS Sec. 3.4: Table 3.10 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the skew, or time delay, between respective differential data lanes in the DisplayPort interface.

**Pass Limits:** [13.3000 UI to 26.7000 UI] **Lane 2/ Lane 3- Inter Pair Skew Test** 20.1414 UI

**Result Details**

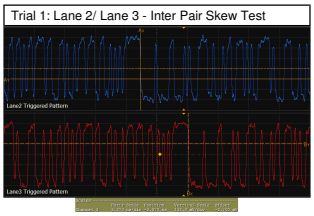
**Lane 2/ Lane 3 - Inter Pair Skew Test** (See image) **Inter-Pair Skew Edges** 100 **VTop** 363.460 mV **VBase** -365.170 mV **VSwing** 728.630 mV **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Lane 2/ Lane 3 - Inter Pair Skew Test



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## Lane 0 - D10.2 Total Jitter Test (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the Total Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 400.000 mUI **D10.2 Total Jitter Test (TP3_EQ)** 108.700 mUI

**Result Details**

**Jitter Separation Image** (See image) **Edges** 1.00000000 M **Total Jitter (TJ)** 108.7 mUI **Total Jitter (TJ) in ps** 20.1298 ps **Periodic Jitter (PJ rms)** 4.5 mUI **Periodic Jitter (PJ p-p)** 15.3 mUI

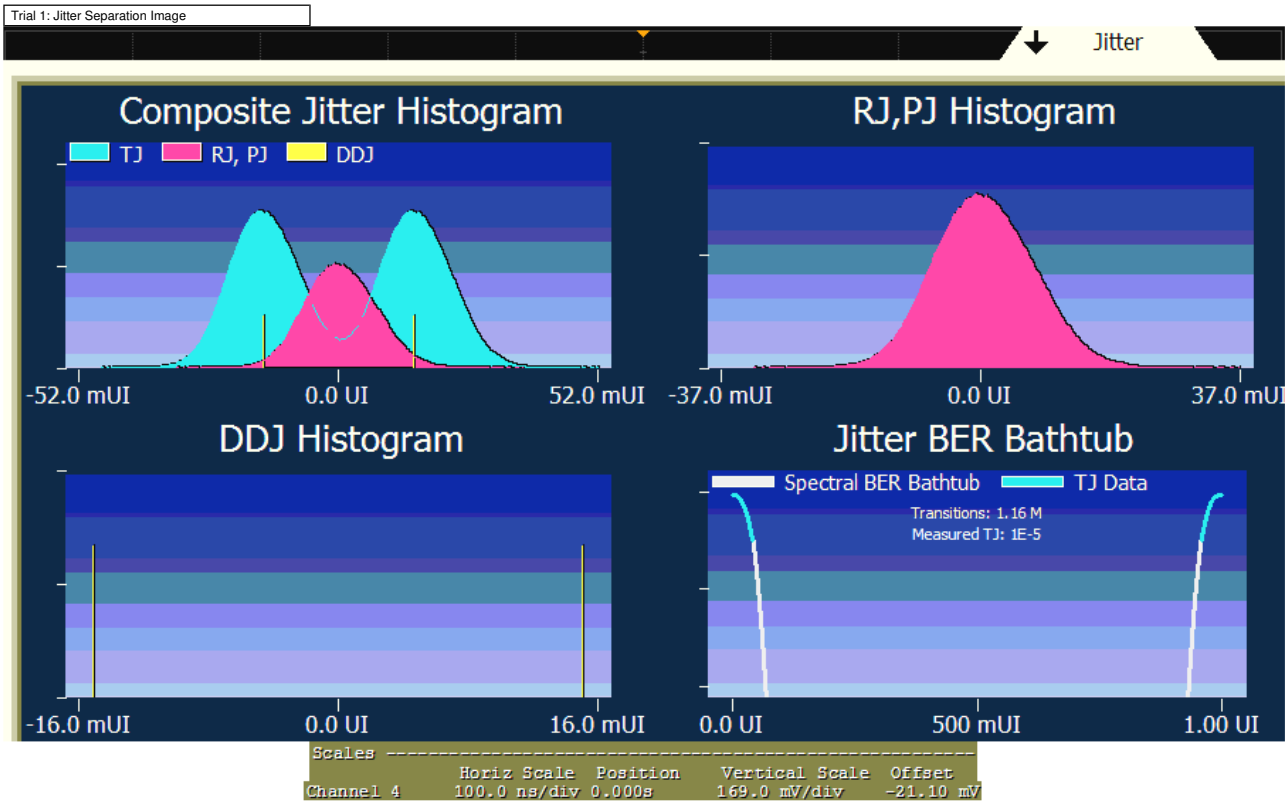
**Deterministic Jitter (DJ)** 43.8 mUI **Random Jitter (RJ)** 5.3 mUI **ISI Jitter (ISI)** 0.0000 UI **Data Dependent Jitter (DDJ)** 30.3 mUI **Bit Error Rate (BER)** E9 **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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Lane 1 - D10.2 Total Jitter Test (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Total Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 400.000 mUI **D10.2 Total Jitter Test (TP3_EQ)** 95.500 mUI

**Result Details**

**Jitter Separation Image** (See image) **Edges** 1.00000000 M **Total Jitter (TJ)** 95.5 mUI **Total Jitter (TJ) in ps** 17.6852 ps **Periodic Jitter (PJ rms)** 4.5 mUI **Periodic Jitter (PJ p-p)** 17.4 mUI

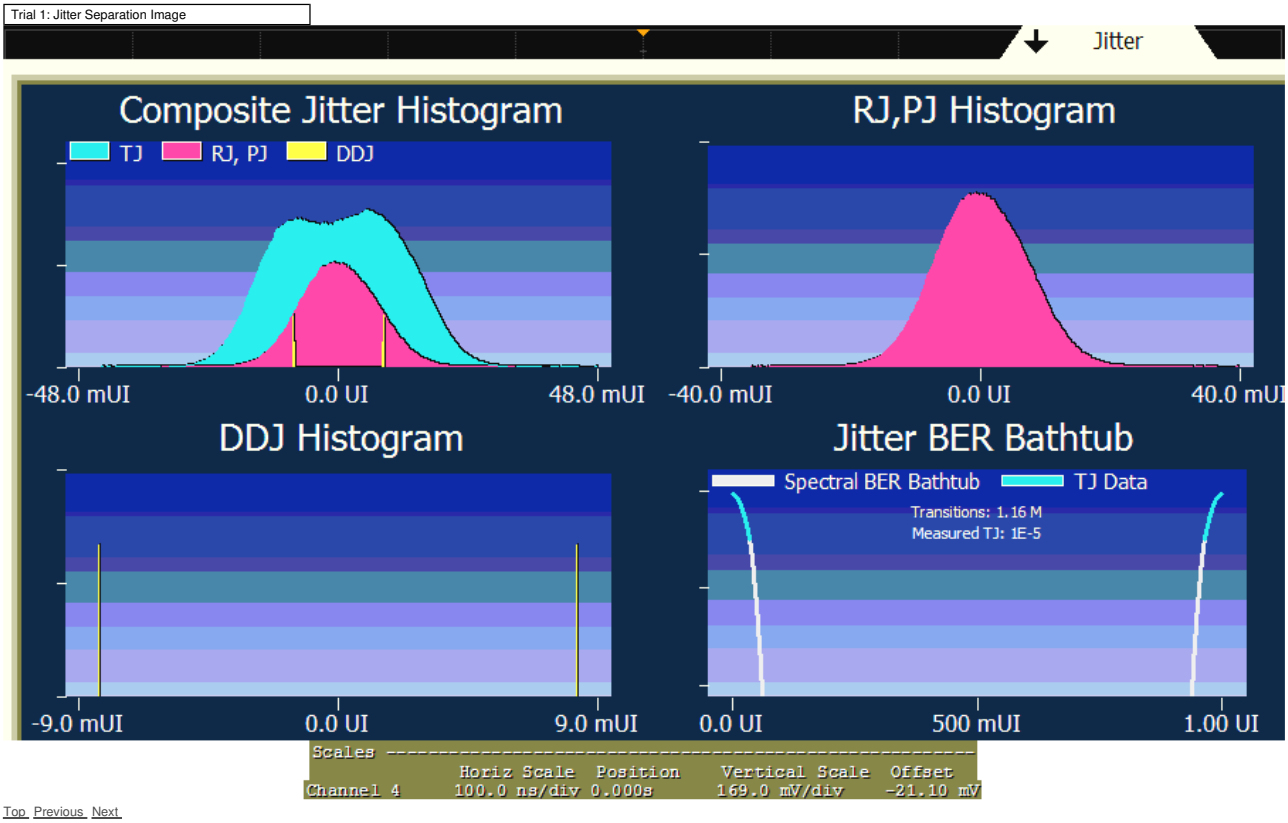
**Deterministic Jitter (DJ)** 32.2 mUI **Random Jitter (RJ)** 5.2 mUI **ISI Jitter (ISI)** 0.0000 UI **Data Dependent Jitter (DDJ)** 16.7 mUI **Bit Error Rate (BER)** E9 **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 2 - D10.2 Total Jitter Test (TP3_EQ)

Test Summary: Pass  Test Description: To evaluate the Total Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 400.000 mUI | **Lane 2 D10.2 Total Jitter Test (TP3_EQ)** 100.000 mUI

### Result Details

**Jitter Separation Image** (See image) | **Edges** 1.00000000 M | **Total Jitter (TJ)** 100.0 mUI | **Total Jitter (TJ) in ps** 18.5185 ps | **Periodic Jitter (PJ rms)** 4.3 mUI | **Periodic Jitter (PJ p-p)** 16.4 mUI

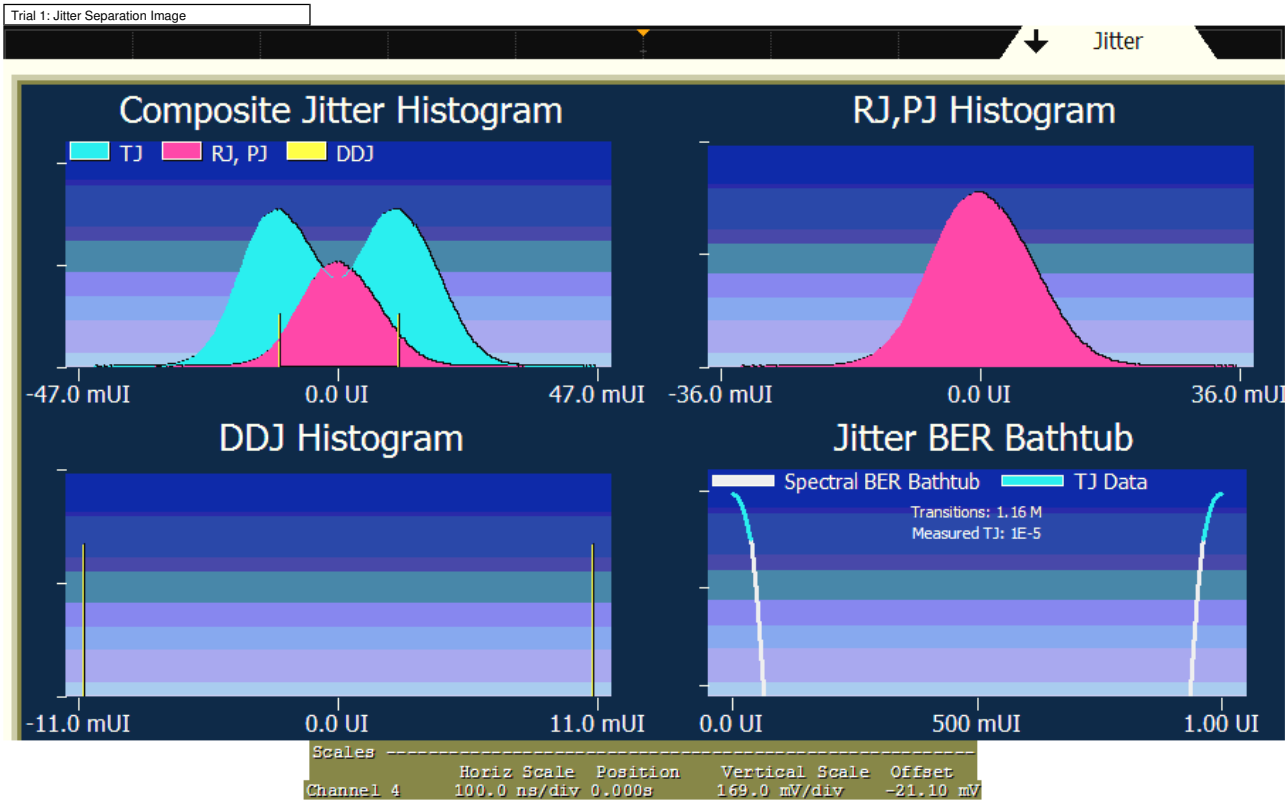
**Deterministic Jitter (DJ)** 36.3 mUI | **Random Jitter (RJ)** 5.2 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 21.7 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance

**Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 3 - D10.2 Total Jitter Test (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the Total Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 400.000 mUI | **D10.2 Total Jitter Test (TP3_EQ)** 102.600 mUI

### Result Details

**Jitter Separation Image** (See image) | **Edges** 1.00000000 M | **Total Jitter (TJ)** 102.6 mUI | **Total Jitter (TJ) in ps** 19.0001 ps | **Periodic Jitter (PJ rms)** 4.1 mUI | **Periodic Jitter (PJ p-p)** 14.7 mUI

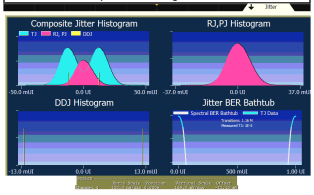
**Deterministic Jitter (DJ)** 37.8 mUI | **Random Jitter (RJ)** 5.3 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 24.9 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance

**Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 0 - D10.2 Deterministic Jitter (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the Deterministic Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 250.000 mUI | **D10.2 Deterministic Jitter (TP3_EQ)** 43.800 mUI

### Result Details

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 108.7 mUI | **Total Jitter (TJ) in ps** 20.1298 ps | **Periodic Jitter (PJ rms)** 4.5 mUI | **Periodic Jitter (PJ p-p)** 15.3 mUI

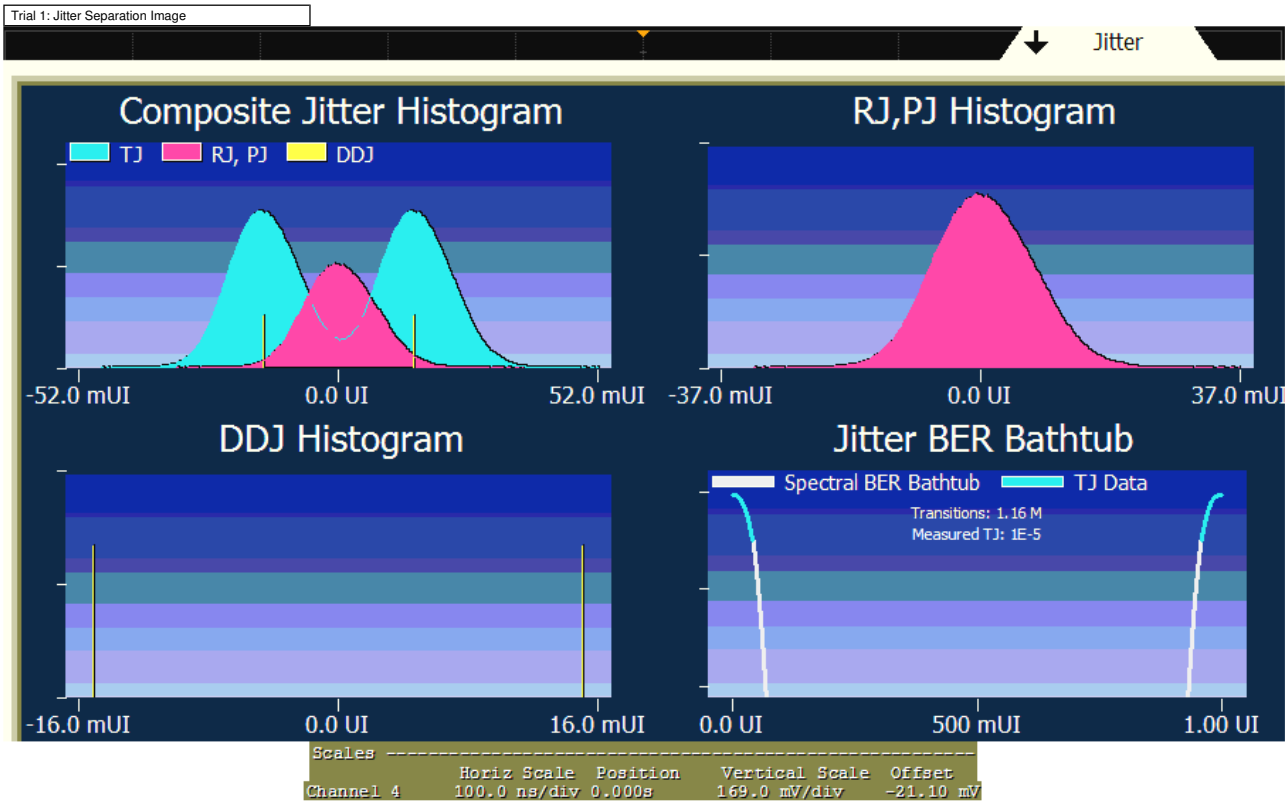
**Deterministic Jitter (DJ)** 43.8 mUI | **Random Jitter (RJ)** 5.3 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 30.3 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance

**Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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Lane 1 - D10.2 Deterministic Jitter (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Deterministic Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 250.000 mUI **D10.2 Deterministic Jitter (TP3_EQ)** 32.200 mUI

**Result Details**

**Jitter Separation Image** (See image) **Edges** 1.0000000000 M **Total Jitter (TJ)** 95.5 mUI **Total Jitter (TJ) in ps** 17.6852 ps **Periodic Jitter (PJ rms)** 4.5 mUI **Periodic Jitter (PJ p-p)** 17.4 mUI

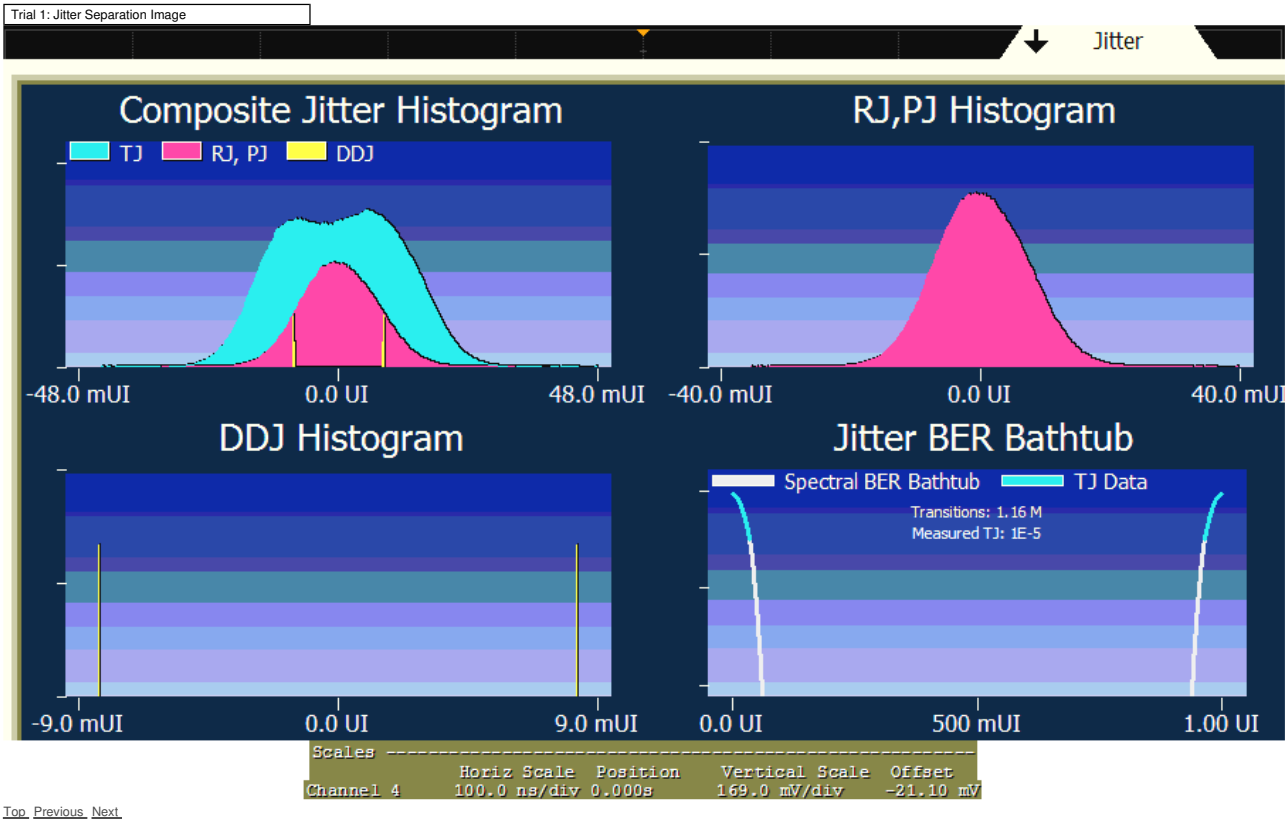
**Deterministic Jitter (DJ)** 32.2 mUI **Random Jitter (RJ)** 5.2 mUI **ISI Jitter (ISI)** 0.0000 UI **Data Dependent Jitter (DDJ)** 16.7 mUI **Bit Error Rate (BER)** E9 **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 2 - D10.2 Deterministic Jitter (TP3_EQ)

Test Summary: Pass  Test Description: To evaluate the Deterministic Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

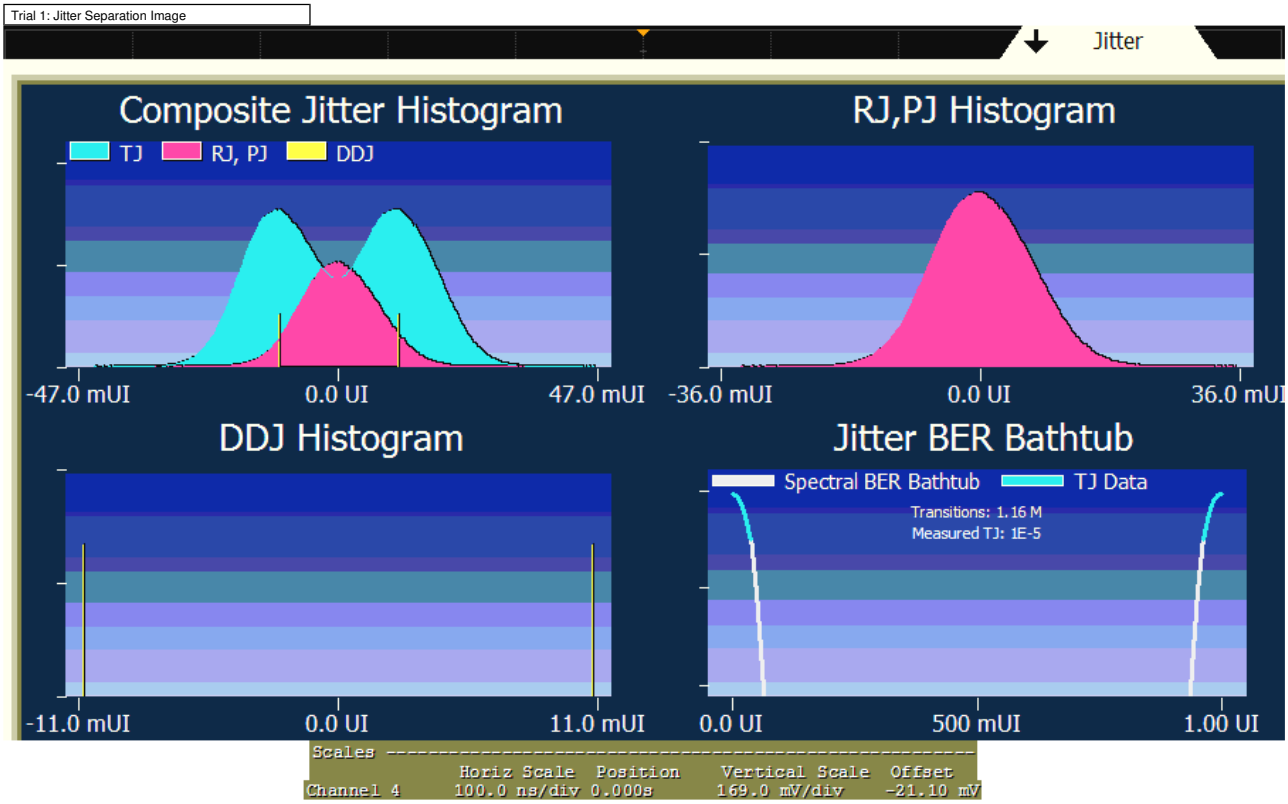
**Pass Limits:** <= 250.000 mUI | **Lane 2 D10.2 Deterministic Jitter (TP3_EQ)** 36.300 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 100.0 mUI | **Total Jitter (TJ) in ps** 18.5185 ps | **Periodic Jitter (PJ rms)** 4.3 mUI | **Periodic Jitter (PJ p-p)** 16.4 mUI | **Deterministic Jitter (DJ)** 36.3 mUI | **Random Jitter (RJ)** 5.2 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 21.7 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 3 - D10.2 Deterministic Jitter (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the Deterministic Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

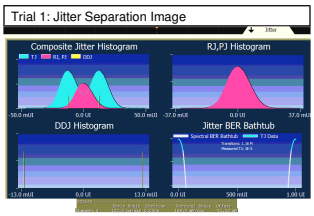
**Pass Limits:** <= 250.000 mUI | **D10.2 Deterministic Jitter (TP3_EQ)** 37.800 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 102.6 mUI | **Total Jitter (TJ) in ps** 19.0001 ps | **Periodic Jitter (PJ rms)** 4.1 mUI | **Periodic Jitter (PJ p-p)** 14.7 mUI | **Deterministic Jitter (DJ)** 37.8 mUI | **Random Jitter (RJ)** 5.3 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 24.9 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image



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## Lane 0 - D10.2 Random Jitter (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the Random Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

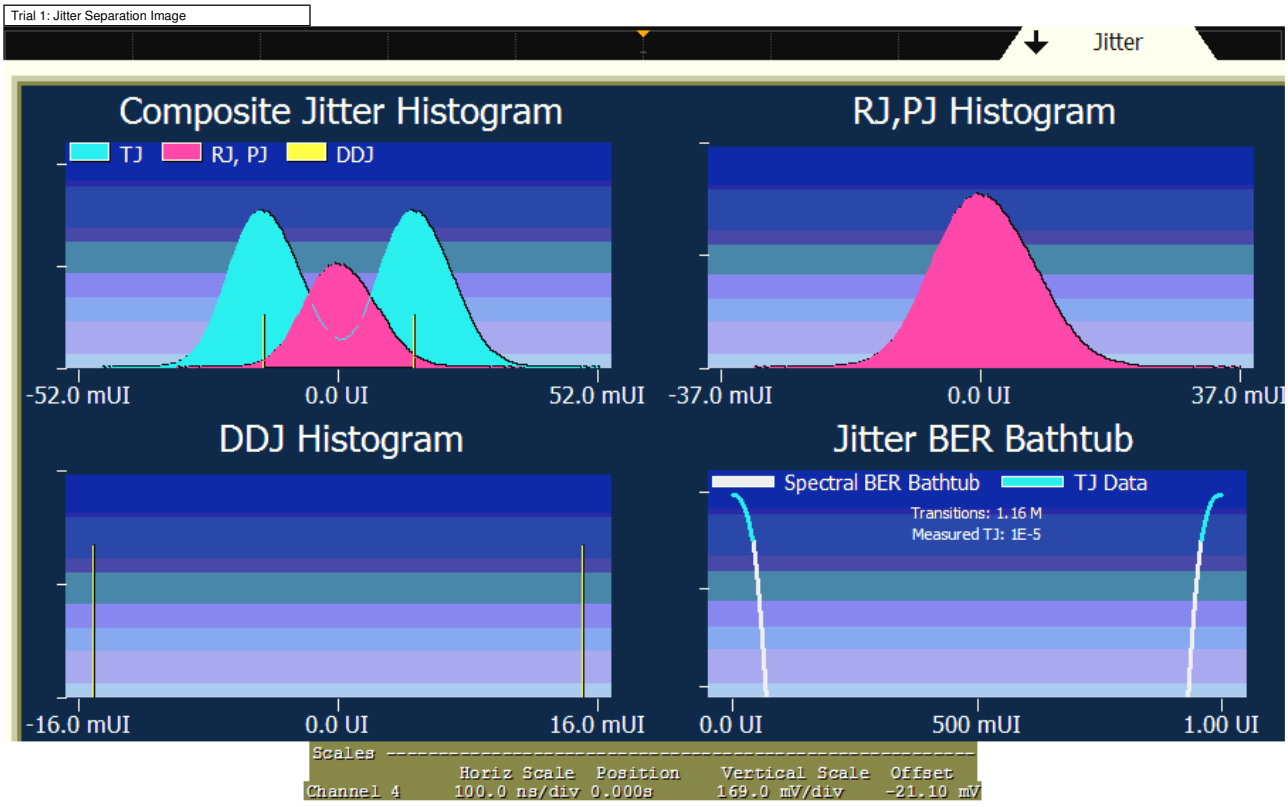
**Pass Limits:** <= 230.000 mUI | **D10.2 Random Jitter (TP3_EQ)** 5.300 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 108.7 mUI | **Total Jitter (TJ) in ps** 20.1298 ps | **Periodic Jitter (PJ rms)** 4.5 mUI | **Periodic Jitter (PJ p-p)** 15.3 mUI | **Deterministic Jitter (DJ)** 43.8 mUI | **Random Jitter (RJ)** 5.3 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 30.3 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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Lane 1 - D10.2 Random Jitter (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Random Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 230.000 mUI **D10.2 Random Jitter (TP3_EQ)** 5.200 mUI

**Result Details**

**Jitter Separation Image** (See image) **Edges** 1.0000000000 M **Total Jitter (TJ)** 95.5 mUI **Total Jitter (TJ) in ps** 17.6852 ps **Periodic Jitter (PJ rms)** 4.5 mUI **Periodic Jitter (PJ p-p)** 17.4 mUI

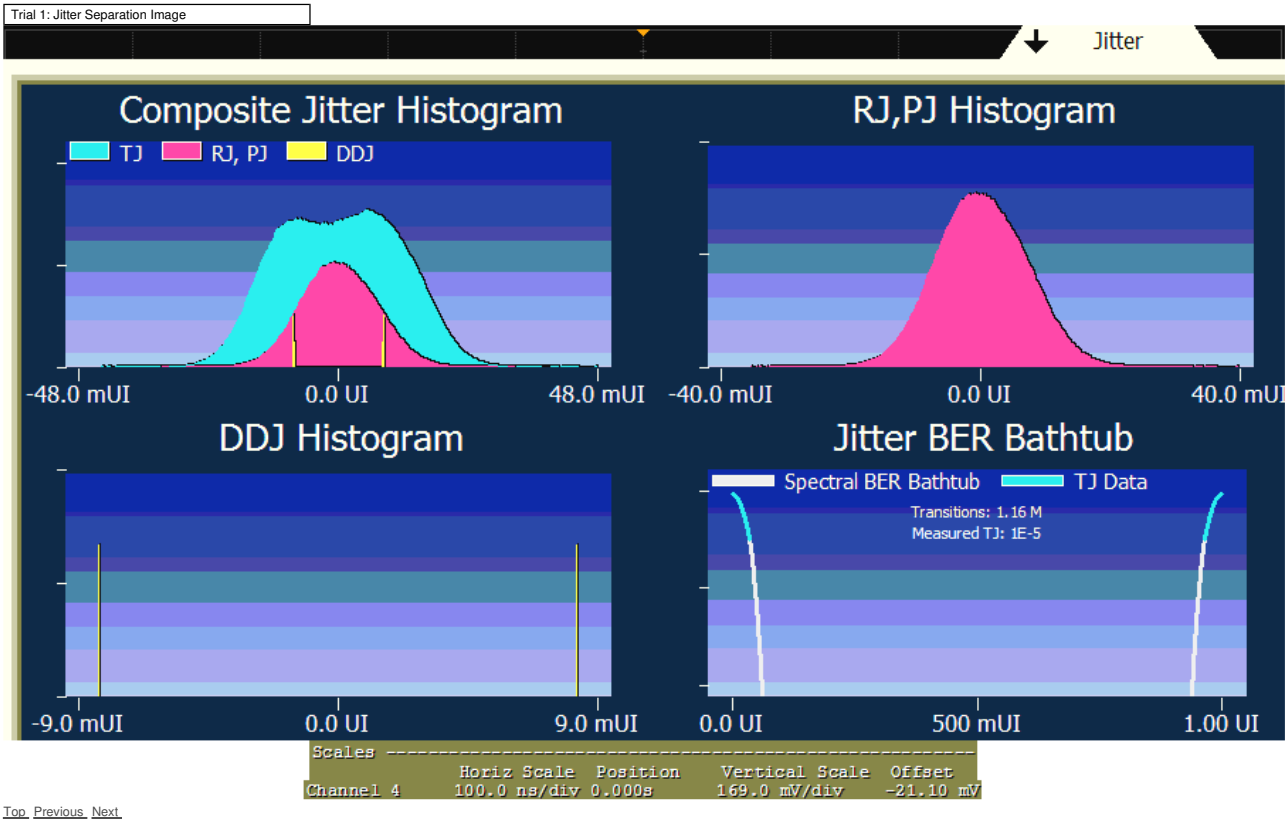
**Deterministic Jitter (DJ)** 32.2 mUI **Random Jitter (RJ)** 5.2 mUI **ISI Jitter (ISI)** 0.0000 UI **Data Dependent Jitter (DDJ)** 16.7 mUI **Bit Error Rate (BER)** E9 **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 2 - D10.2 Random Jitter (TP3_EQ)

Test Summary: Pass  Test Description: To evaluate the Random Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

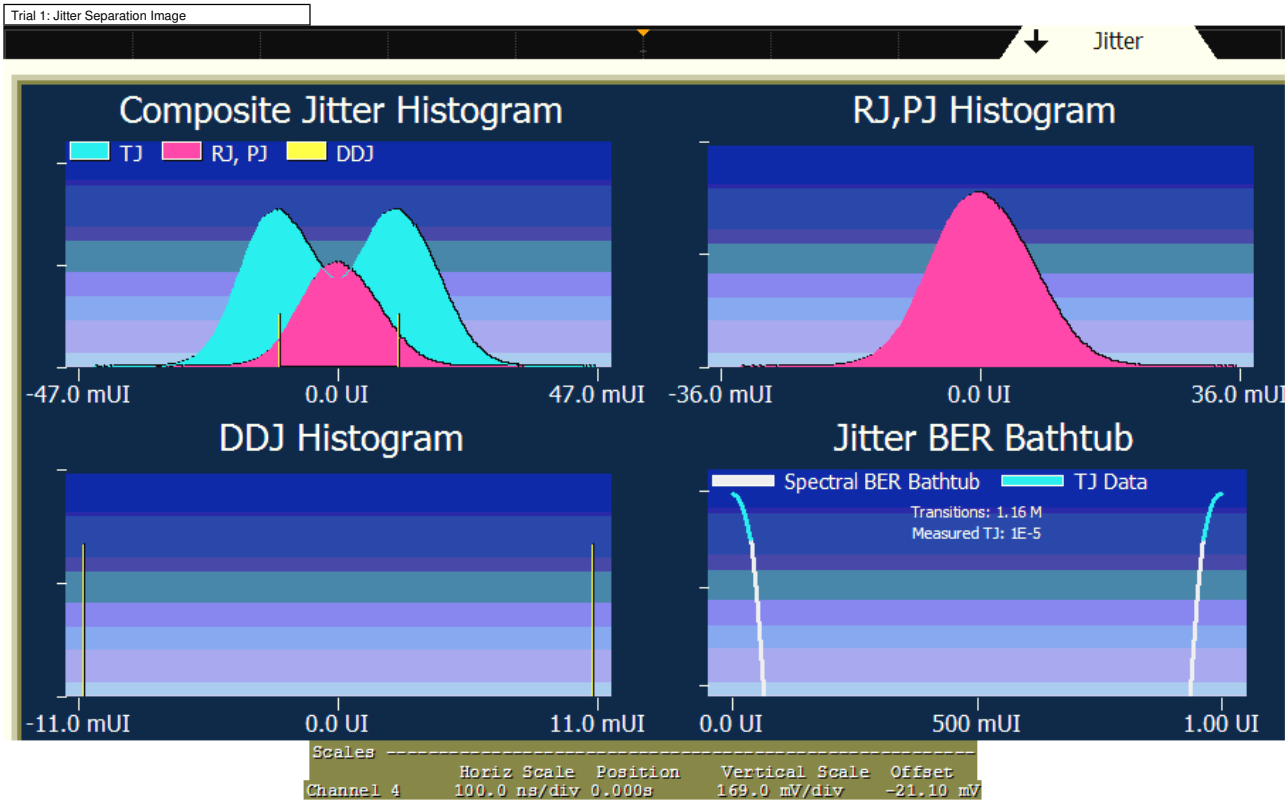
**Pass Limits:** <= 230.000 mUI | **Lane 2 D10.2 Random Jitter (TP3_EQ)** 5.200 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 100.0 mUI | **Total Jitter (TJ) in ps** 18.5185 ps | **Periodic Jitter (PJ rms)** 4.3 mUI | **Periodic Jitter (PJ p-p)** 16.4 mUI | **Deterministic Jitter (DJ)** 36.3 mUI | **Random Jitter (RJ)** 5.2 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 21.7 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 3 - D10.2 Random Jitter (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the Random Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

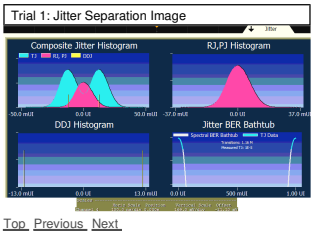
**Pass Limits:** <= 230.000 mUI | **D10.2 Random Jitter (TP3_EQ)** 5.300 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 102.6 mUI | **Total Jitter (TJ) in ps** 19.0001 ps | **Periodic Jitter (PJ rms)** 4.1 mUI | **Periodic Jitter (PJ p-p)** 14.7 mUI | **Deterministic Jitter (DJ)** 37.8 mUI | **Random Jitter (RJ)** 5.3 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 24.9 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 0 - Main Link Frequency Compliance

*Reference: DisplayPort CTS Sec. 3.14*

Test Summary: Pass

Test Description: To evaluate the rate variation under all conditions falls within -5300PPM and +300PPM as set by the DisplayPort standard.

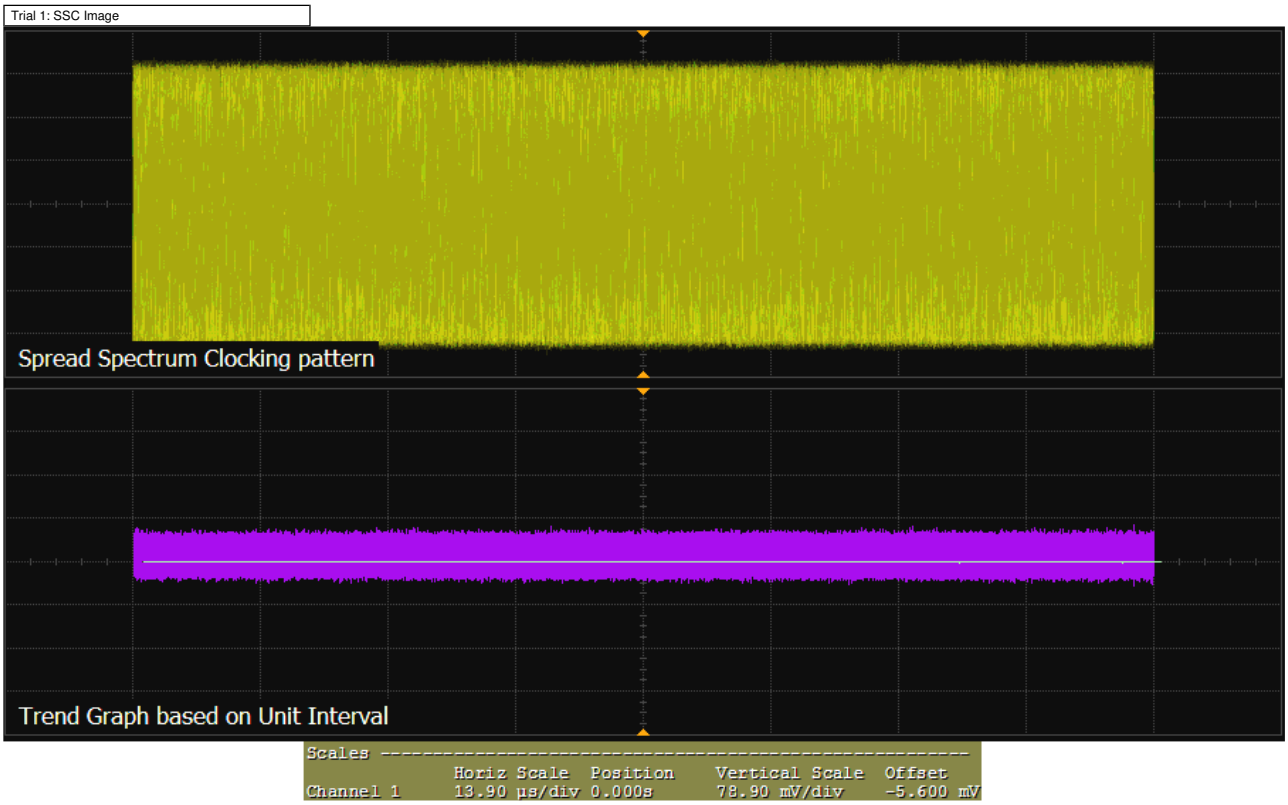
**Pass Limits:** [-5.300000 kppm to 300.000 ppm] **Lane 0 - Main Link Frequency (Worst of 3 Trials)** 5.457 ppm **# Trials Run:** 3 **Worst Trial:** Trial 3

**Overall Summary + details of 3 worst trials**

| Pass | Trial | Actual Value | Margin | SSC Image | Unit Interval (Mean) | Data Rate (Mean) | Data Rate (Max) | Data Rate (Min) | Upper limit Data Rate | Lower limit Data Rate | SSC Acquisitions | VTop | VBase | VSwing | Test Mode | Test Layer | Test Condition | D T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *2.837 ppm* | *5.306 %* | | | | | | | | | | | | | | | |
| | *StdDev* | *3.768 ppm* | *67.29 m%* | | | | | | | | | | | | | | | |
| | *Range* | *6.938 ppm* | *123.9 m%* | | | | | | | | | | | | | | | |
| | *Min* | *-1.481 ppm* | *5.260 %* | | | | | | | | | | | | | | | |
| | *Max* | *5.457 ppm* | *5.384 %* | | | | | | | | | | | | | | | |
| | *Sum* | *8.512 ppm* | *15.92 %* | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | -1.481 ppm | 5.4% | (See image) | 185.1855 ps | 5.3999920000000 Gbps | 5.4004370038915 Gbps | 5.3995359648065 Gbps | 5.4016200000000 Gbps | 5.3713800000000 Gbps | 10 | 259.570 mV | -268.380 mV | 527.950 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | S |
| ✓ | Trial 2 | 4.537 ppm | 5.3% | (See image) | 370.3687 ps | 2.7000122500000 Gbps | 2.7003862104967 Gbps | 2.6996557401802 Gbps | 2.7008100000000 Gbps | 2.6856900000000 Gbps | 10 | 305.310 mV | -317.440 mV | 622.750 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | S |
| ✓ | Trial 3 (Worst) | 5.457 ppm | 5.3% | (See image) | 617.2806 ps | 1.6200088400000 Gbps | 1.6203098726034 Gbps | 1.6197073035935 Gbps | 1.6204860000000 Gbps | 1.6114140000000 Gbps | 10 | 368.150 mV | -400.000 mV | 768.150 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | S |

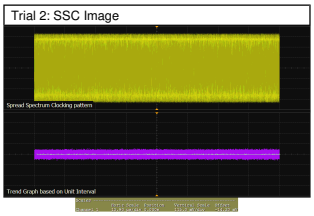
**Trial 1**

Trial 1: SSC Image



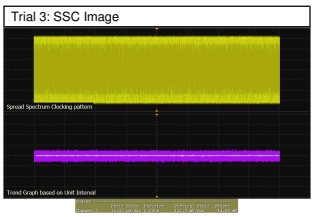

**Trial 2**

Trial 2: SSC Image



**Trial 3**

Trial 3: SSC Image



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## Lane 1 - Main Link Frequency Compliance

*Reference: DisplayPort CTS Sec. 3.14*

Test Summary: Pass

Test Description: To evaluate the rate variation under all conditions falls within -5300PPM and +300PPM as set by the DisplayPort standard.

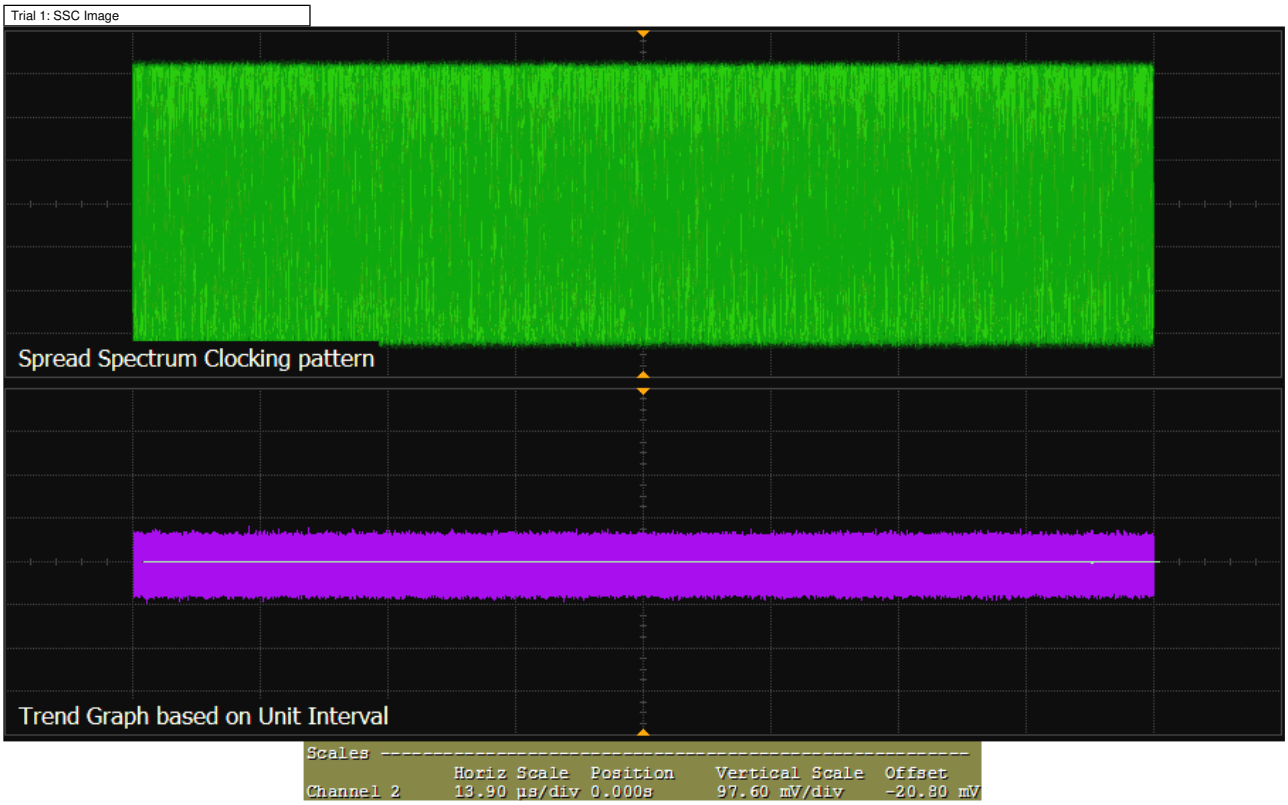
**Pass Limits:** [-5.300000 kppm to 300.000 ppm] | **Lane 1 - Main Link Frequency (Worst of 3 Trials)** -2.778 ppm | **# Trials Run:** 3 | **Worst Trial:** Trial 3

**Overall Summary + details of 3 worst trials**

| Pass | Trial | Actual Value | Margin | SSC Image | Unit Interval (Mean) | Data Rate (Mean) | Data Rate (Max) | Data Rate (Min) | Upper limit Data Rate | Lower limit Data Rate | SSC Acquisitions | VTop | VBase | VSwing | Test Mode | Test Layer | Test Condition | D T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-9.676 ppm* | *5.530 %* | | | | | | | | | | | | | | | |
| | *StdDev* | *6.099 ppm* | *108.9 m%* | | | | | | | | | | | | | | | |
| | *Range* | *11.57 ppm* | *206.7 m%* | | | | | | | | | | | | | | | |
| | *Min* | *-14.35 ppm* | *5.407 %* | | | | | | | | | | | | | | | |
| | *Max* | *-2.778 ppm* | *5.613 %* | | | | | | | | | | | | | | | |
| | *Sum* | *-29.03 ppm* | *16.59 %* | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | -14.352 ppm | 5.6% | (See image) | 185.1878 ps | 5.3999225000000 Gbps | 5.4004720022610 Gbps | 5.3995359644287 Gbps | 5.4016200000000 Gbps | 5.3713800000000 Gbps | 10 | 310.720 mV | -356.540 mV | 667.260 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | S |
| ✓ | Trial 2 | -11.898 ppm | 5.6% | (See image) | 370.3748 ps | 2.6999678750000 Gbps | 2.7003803761382 Gbps | 2.6996331480678 Gbps | 2.7008100000000 Gbps | 2.6856900000000 Gbps | 10 | 326.910 mV | -365.990 mV | 692.900 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | S |
| ✓ | Trial 3 (Worst) | -2.778 ppm | 5.4% | (See image) | 617.2857 ps | 1.6199955000000 Gbps | 1.6203177482030 Gbps | 1.6197125502837 Gbps | 1.6204860000000 Gbps | 1.6114140000000 Gbps | 10 | 367.150 mV | -392.800 mV | 759.950 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | S |

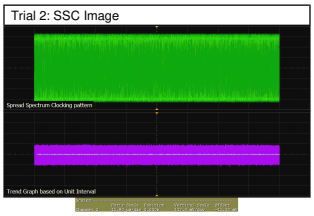
**Trial 1**

Trial 1: SSC Image



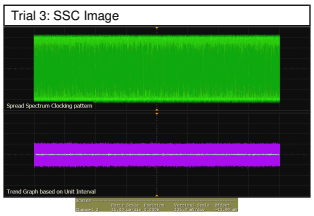

**Trial 2**

Trial 2: SSC Image



**Trial 3**

Trial 3: SSC Image



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## Lane 2 - Main Link Frequency Compliance

*Reference: DisplayPort CTS Sec. 3.14*

Test Summary: Pass

Test Description: To evaluate the rate variation under all conditions falls within -5300PPM and +300PPM as set by the DisplayPort standard.

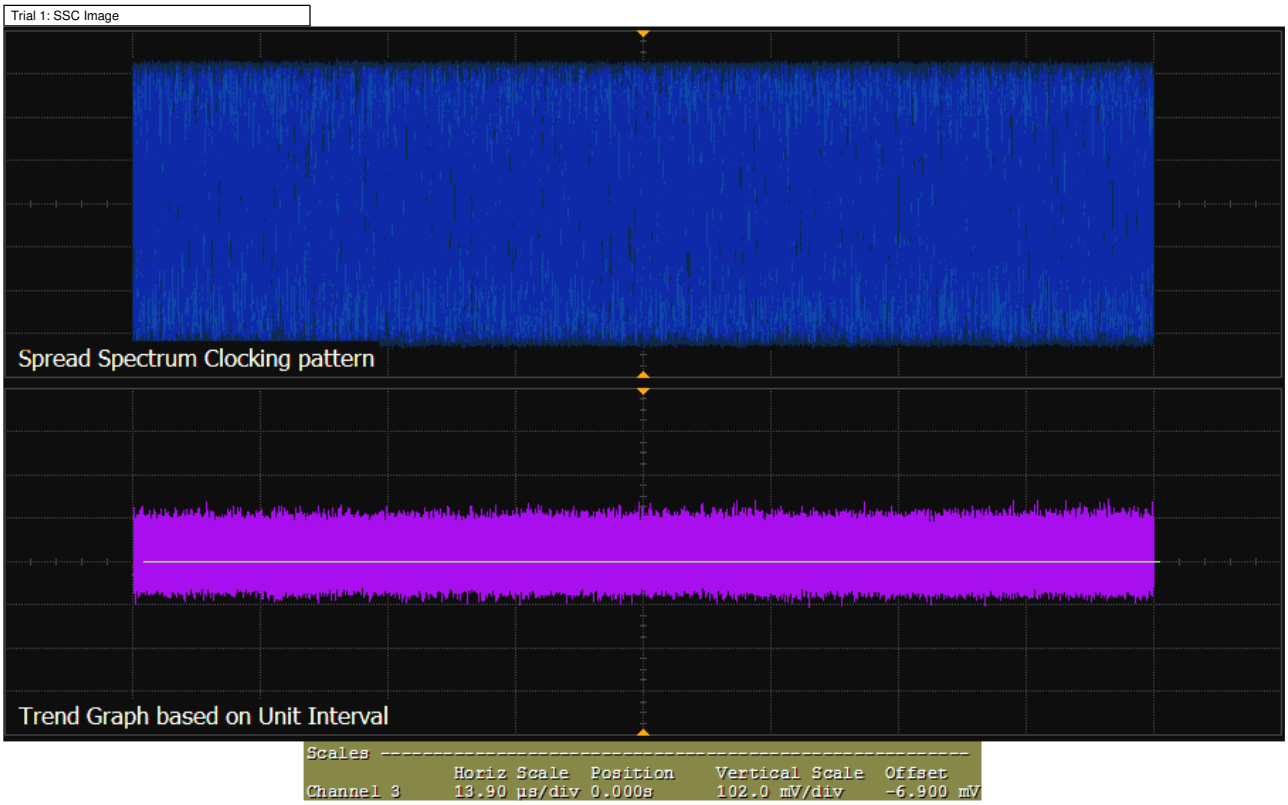
**Pass Limits:** [-5.300000 kppm to 300.000 ppm] **Lane 2 - Main Link Frequency (Worst of 3 Trials)** 5.861 ppm **# Trials Run:** 3 **Worst Trial:** Trial 2

**Overall Summary + details of 3 worst trials**

| Pass | Trial | Actual Value | Margin | SSC Image | Unit Interval (Mean) | Data Rate (Mean) | Data Rate (Max) | Data Rate (Min) | Upper limit Data Rate | Lower limit Data Rate | SSC Acquisitions | VTop | VBase | VSwing | Test Mode | Test Layer | Test Condition | D T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *5.026 ppm* | *5.267 %* | | | | | | | | | | | | | | | |
| | *StdDev* | *1.087 ppm* | *19.42 m%* | | | | | | | | | | | | | | | |
| | *Range* | *2.065 ppm* | *36.88 m%* | | | | | | | | | | | | | | | |
| | *Min* | *3.796 ppm* | *5.252 %* | | | | | | | | | | | | | | | |
| | *Max* | *5.861 ppm* | *5.289 %* | | | | | | | | | | | | | | | |
| | *Sum* | *15.08 ppm* | *15.80 %* | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 3.796 ppm | 5.3% | (See image) | 185.1845 ps | 5.4000205000000 Gbps | 5.4004865853297 Gbps | 5.3995534573463 Gbps | 5.4016200000000 Gbps | 5.3713800000000 Gbps | 10 | 346.790 mV | -358.590 mV | 705.380 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | S |
| ✓ | Trial 2 (Worst) | 5.861 ppm | 5.3% | (See image) | 370.3682 ps | 2.7000158250000 Gbps | 2.7003694384251 Gbps | 2.6996637572815 Gbps | 2.7008100000000 Gbps | 2.6856900000000 Gbps | 10 | 321.720 mV | -344.080 mV | 665.800 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | S |
| ✓ | Trial 3 | 5.420 ppm | 5.3% | (See image) | 617.2806 ps | 1.6200087800000 Gbps | 1.6202886065934 Gbps | 1.6197143862308 Gbps | 1.6204860000000 Gbps | 1.6114140000000 Gbps | 10 | 370.750 mV | -393.300 mV | 764.050 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | S |

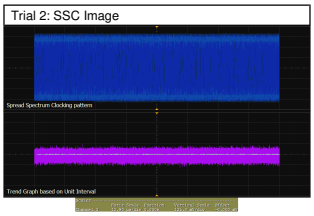
**Trial 1**

Trial 1: SSC Image



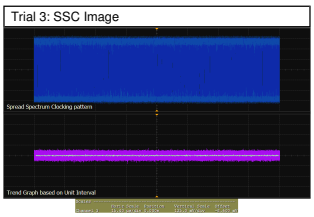

**Trial 2**

Trial 2: SSC Image



**Trial 3**

Trial 3: SSC Image



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## Lane 3 - Main Link Frequency Compliance

*Reference: DisplayPort CTS Sec. 3.14*

Test Summary: Pass  Test Description: To evaluate the rate variation under all conditions falls within -5300PPM and +300PPM as set by the DisplayPort standard.

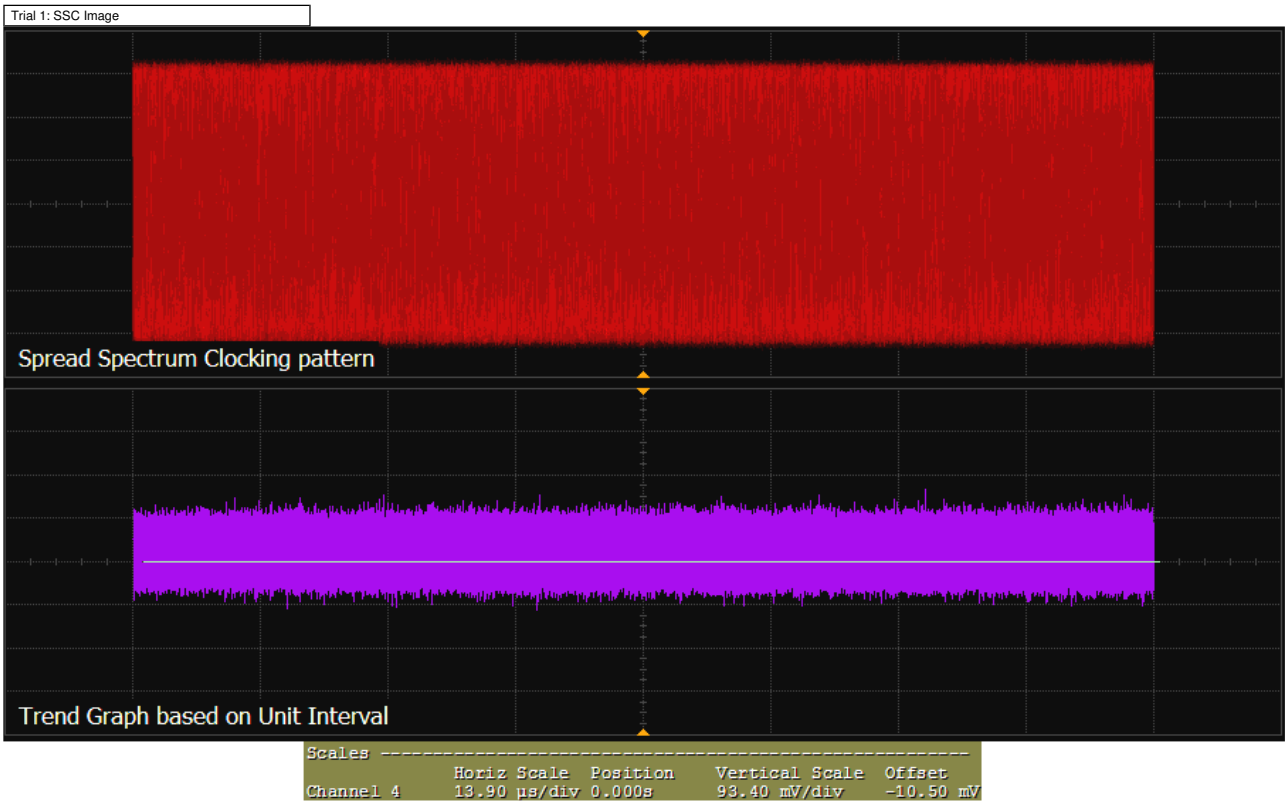
**Pass Limits:** [-5.300000 kppm to 300.000 ppm] **Lane 3 - Main Link Frequency (Worst of 3 Trials)** 6.049 ppm **# Trials Run:** 3 **Worst Trial:** Trial 3

**Overall Summary + details of 3 worst trials**

| Pass | Trial | Actual Value | Margin | SSC Image | Unit Interval (Mean) | Data Rate (Mean) | Data Rate (Max) | Data Rate (Min) | Upper limit Data Rate | Lower limit Data Rate | SSC Acquisitions | VTop | VBase | VSwing | Test Mode | Test Layer | Test Condition | D T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *4.912 ppm* | *5.269 %* | | | | | | | | | | | | | | | |
| | *StdDev* | *1.227 ppm* | *21.91 m%* | | | | | | | | | | | | | | | |
| | *Range* | *2.438 ppm* | *43.54 m%* | | | | | | | | | | | | | | | |
| | *Min* | *3.611 ppm* | *5.249 %* | | | | | | | | | | | | | | | |
| | *Max* | *6.049 ppm* | *5.293 %* | | | | | | | | | | | | | | | |
| | *Sum* | *14.73 ppm* | *15.81 %* | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 3.611 ppm | 5.3% | (See image) | 185.1845 ps | 5.4000195000000 Gbps | 5.4004778357531 Gbps | 5.3995476262478 Gbps | 5.4016200000000 Gbps | 5.3713800000000 Gbps | 10 | 304.120 mV | -321.690 mV | 625.810 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | S |
| ✓ | Trial 2 | 5.074 ppm | 5.3% | (See image) | 370.3685 ps | 2.7000137000000 Gbps | 2.7003628751420 Gbps | 2.6996695881595 Gbps | 2.7008100000000 Gbps | 2.6856900000000 Gbps | 10 | 338.110 mV | -355.440 mV | 693.550 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | S |
| ✓ | Trial 3 (Worst) | 6.049 ppm | 5.2% | (See image) | 617.2802 ps | 1.6200098000000 Gbps | 1.6203145982816 Gbps | 1.6197017940984 Gbps | 1.6204860000000 Gbps | 1.6114140000000 Gbps | 10 | 371.830 mV | -392.280 mV | 764.110 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | S |

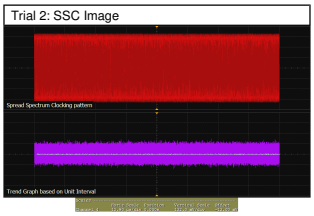
**Trial 1**

Trial 1: SSC Image



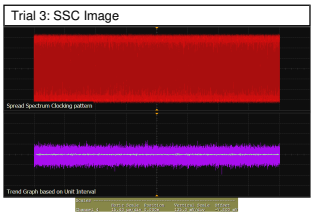

**Trial 2**

Trial 2: SSC Image



**Trial 3**

Trial 3: SSC Image



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## Lane 0 - HBR2CPAT Eye Diagram Test (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass | Test Description: To evaluate the waveform to ensure that timing variabilities and amplitude trajectories are such to support the overall DisplayPort system objectives of Bit Error Rate in data transmission.

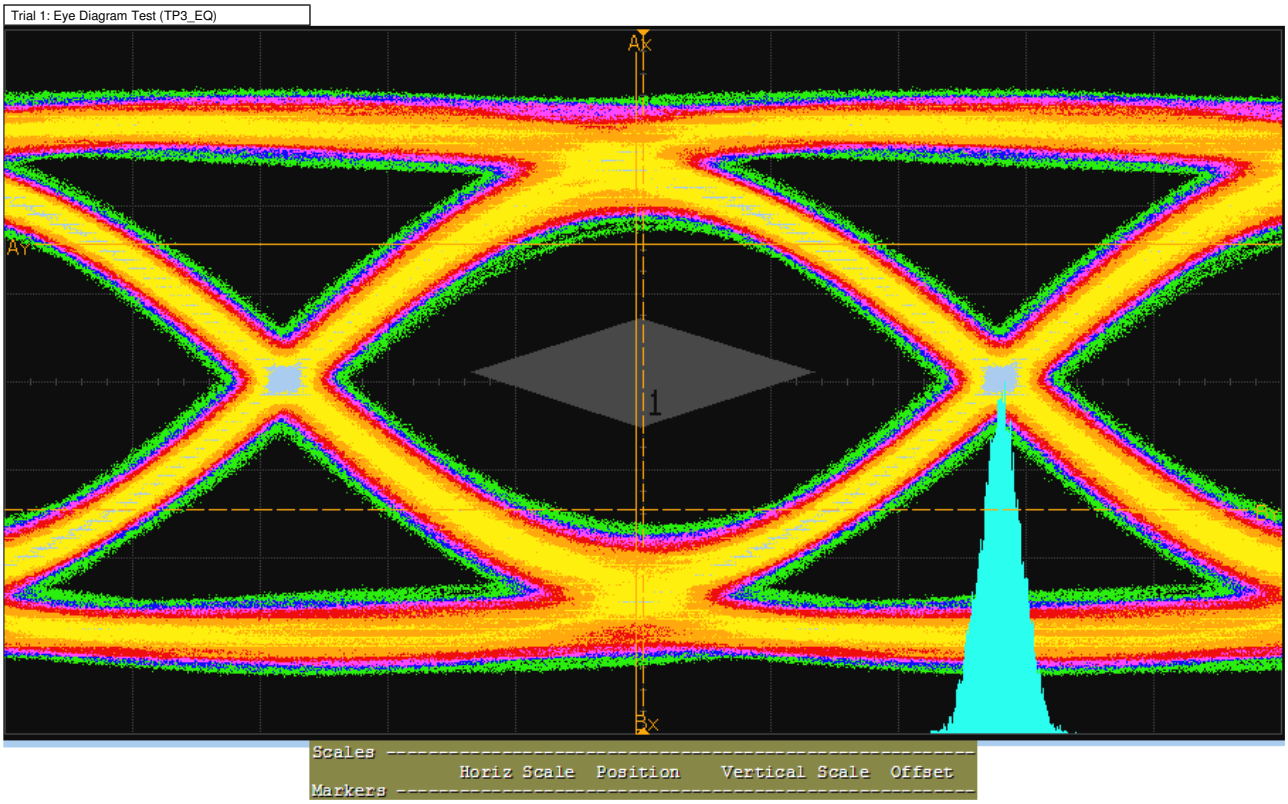
**Pass Limits:** [-500 m to 500 m] | **Eye Diagram Test (TP3_EQ)** 0.000

**Result Details**

| | | | | |
|---|---|---|---|---|
| **Number of UI** 1000000 | **Statistical Mask Height(VHigh)** 65.127 mV | **Statistical Mask Height(VLow)** -67.655 mV | **Statistical Eye Height** 321.468 mV | **Statistical Mask Width** 479.663 mUI |
| **Measured RNoise VHigh(Sigma)** 10.548 mV | **Measured RNoise VLow(Sigma)** 12.580 mV | **Measured Eye Height** 350.250 mV | **Measured Eye Width** 147.760 ps | **Max Eye Height Position** 490 mUI |
| **Measured Rj** 7.900 mUI | **Mask Passing Center Position** 0.000 V | **Vertical Scale** 106.450 mV | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only |
| **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0 |

**Trial 1**

Trial 1: Eye Diagram Test (TP3_EQ)

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## Lane 1 - HBR2CPAT Eye Diagram Test (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass | Test Description: To evaluate the waveform to ensure that timing variabilities and amplitude trajectories are such to support the overall DisplayPort system objectives of Bit Error Rate in data transmission.

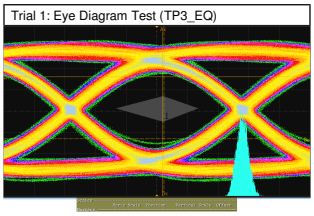
**Pass Limits:** [-500 m to 500 m] | **Eye Diagram Test (TP3_EQ)** 0.000

**Result Details**

| | | | | |
|---|---|---|---|---|
| **Number of UI** 1000000 | **Statistical Mask Height(VHigh)** 66.790 mV | **Statistical Mask Height(VLow)** -71.234 mV | **Statistical Eye Height** 332.856 mV | **Statistical Mask Width** 479.165 mUI |
| **Measured RNoise VHigh(Sigma)** 11.884 mV | **Measured RNoise VLow(Sigma)** 15.455 mV | **Measured Eye Height** 366.880 mV | **Measured Eye Width** 144.470 ps | **Max Eye Height Position** 530 mUI |
| **Measured Rj** 7.700 mUI | **Mask Passing Center Position** 0.000 V | **Vertical Scale** 114.304 mV | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only |
| **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0 |

**Trial 1**

Trial 1: Eye Diagram Test (TP3_EQ)



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## Lane 2 - HBR2CPAT Eye Diagram Test (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass | Test Description: To evaluate the waveform to ensure that timing variabilities and amplitude trajectories are such to support the overall DisplayPort system objectives of Bit Error Rate in data transmission.

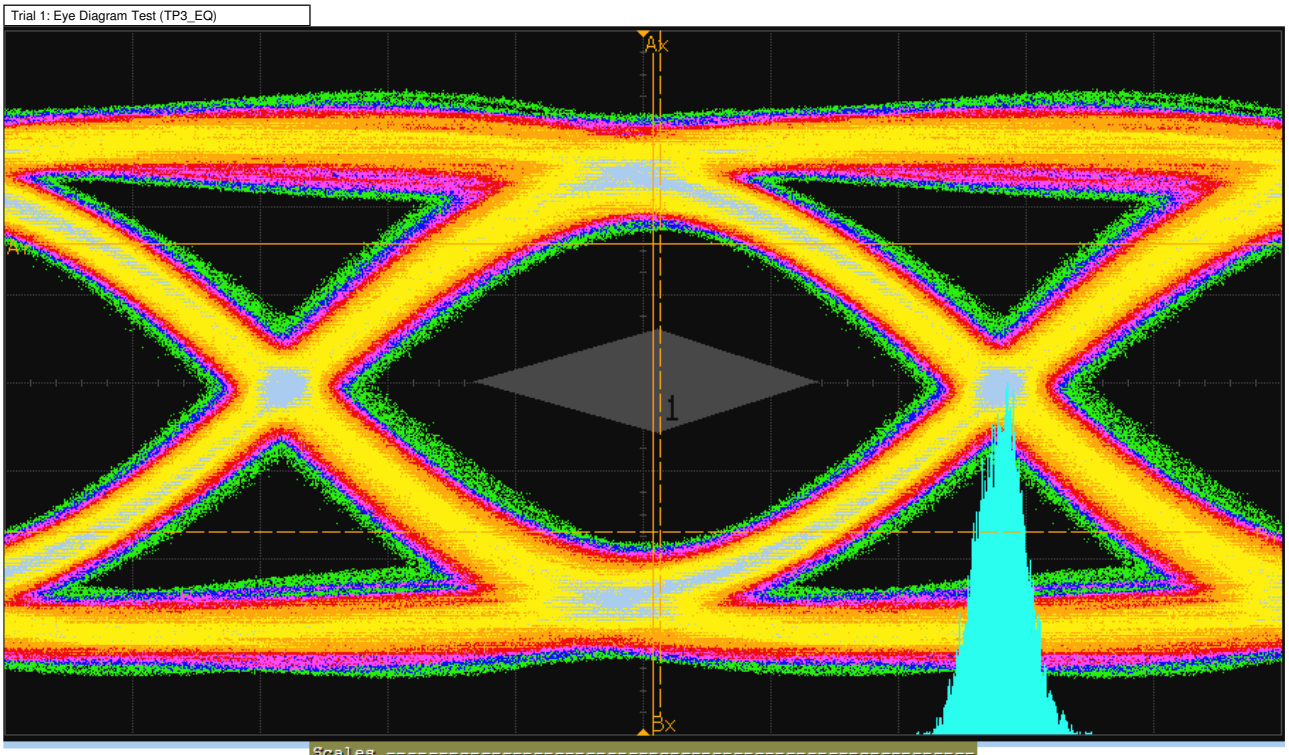
**Pass Limits:** [-500 m to 500 m] | **Eye Diagram Test (TP3_EQ)** 0.000

**Result Details**

| | | | | |
|---|---|---|---|---|
| **Number of UI** 1000000 | **Statistical Mask Height(VHigh)** 69.565 mV | **Statistical Mask Height(VLow)** -66.726 mV | **Statistical Eye Height** 379.028 mV | **Statistical Mask Width** 480.161 mUI |
| **Measured RNoise VHigh(Sigma)** 14.114 mV | **Measured RNoise VLow(Sigma)** 11.833 mV | **Measured Eye Height** 411.320 mV | **Measured Eye Width** 140.070 ps | **Max Eye Height Position** 510 mUI |
| **Measured Rj** 8.100 mUI | **Mask Passing Center Position** 0.000 V | **Vertical Scale** 115.918 mV | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only |
| **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0 |

**Trial 1**

Trial 1: Eye Diagram Test (TP3_EQ)

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Lane 3 - HBR2CPAT Eye Diagram Test (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass  Test Description: To evaluate the waveform to ensure that timing variabilities and amplitude trajectories are such to support the overall DisplayPort system objectives of Bit Error Rate in data transmission.

**Pass Limits:** [-500 m to 500 m] **Eye Diagram Test (TP3_EQ)** 0.000

**Result Details**

**Number of UI** 1000000 | **Statistical Mask Height(VHigh)** 64.694 mV | **Statistical Mask Height(VLow)** -65.455 mV | **Statistical Eye Height** 394.002 mV | **Statistical Mask Width** 479.414 mUI

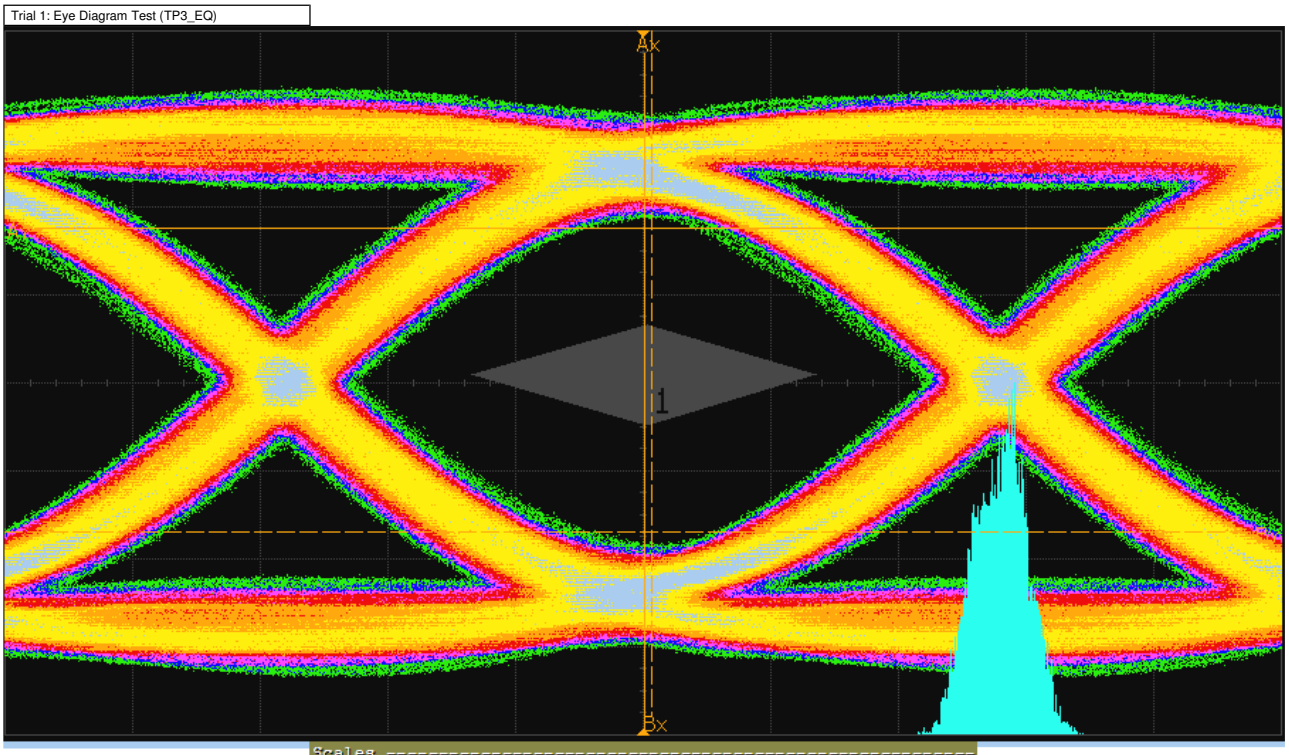
**Measured RNoise VHigh(Sigma)** 10.200 mV | **Measured RNoise VLow(Sigma)** 10.811 mV | **Measured Eye Height** 420.150 mV | **Measured Eye Width** 142.630 ps | **Max Eye Height Position** 500 mUI

**Measured Rj** 7.800 mUI | **Mask Passing Center Position** 0.000 V | **Vertical Scale** 114.253 mV | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only

**DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Eye Diagram Test (TP3_EQ)

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Lane 0 - HBR2CPAT Total Jitter Test (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.12: Table 3.19 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Total Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 580.000 mUI **HBR2CPAT Total Jitter Test (TP3_EQ)** 262.600 mUI

**Result Details**

**Jitter Separation Image** (See image) **Edges** 1.00000000 M **Total Jitter (TJ)** 262.6 mUI **Total Jitter (TJ) in ps** 48.6283 ps **Periodic Jitter (PJ rms)** 2.3 mUI **Periodic Jitter (PJ p-p)** 11.3 mUI

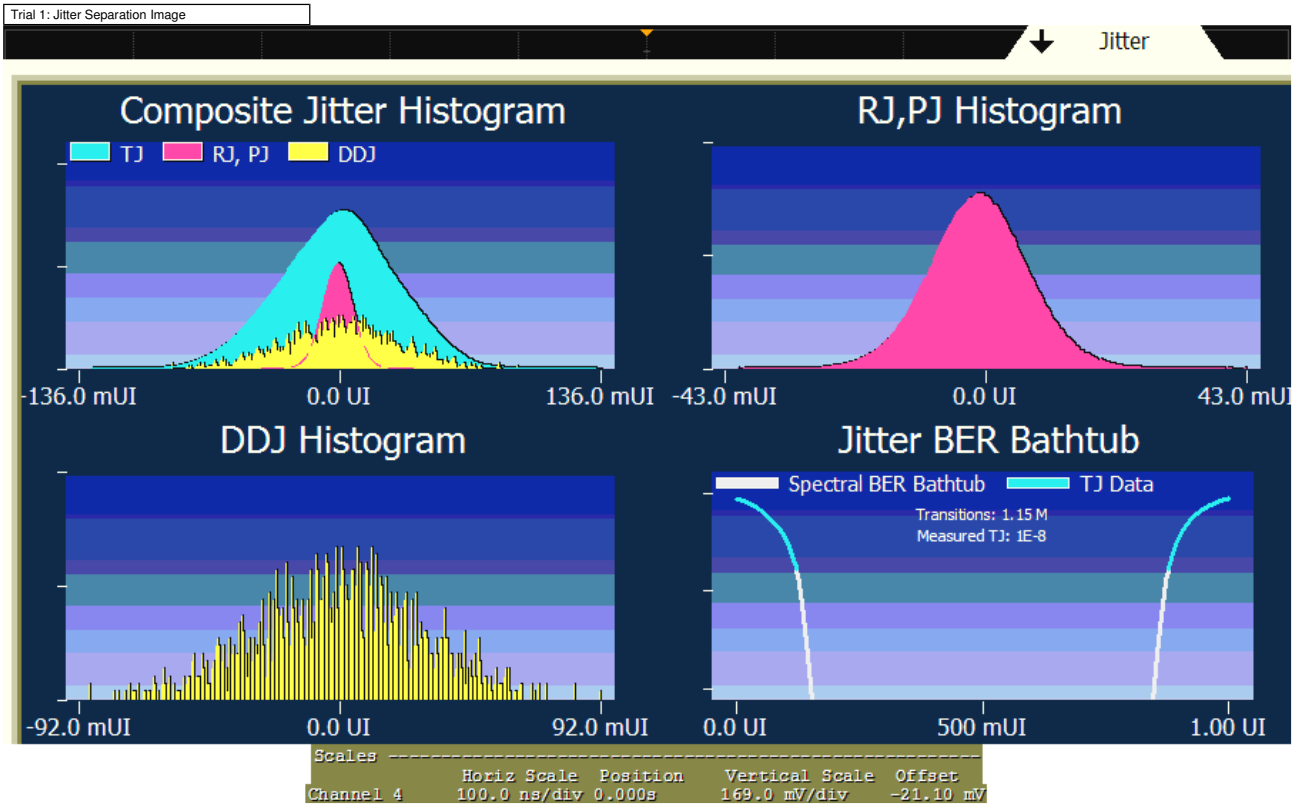
**Deterministic Jitter (DJ)** 168.2 mUI **Random Jitter (RJ)** 7.8 mUI **ISI Jitter (ISI)** 154.4 mUI **Data Dependent Jitter (DDJ)** 181.1 mUI **Bit Error Rate (BER)** E9 **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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✓ Lane 1 - HBR2CPAT Total Jitter Test (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.12: Table 3.19 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Total Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 580.000 mUI **HBR2CPAT Total Jitter Test (TP3_EQ)** 286.700 mUI

**Result Details**

**Jitter Separation Image** (See image) **Edges** 1.00000000 M **Total Jitter (TJ)** 286.7 mUI **Total Jitter (TJ) in ps** 53.0909 ps **Periodic Jitter (PJ rms)** 2.2 mUI **Periodic Jitter (PJ p-p)** 12.7 mUI

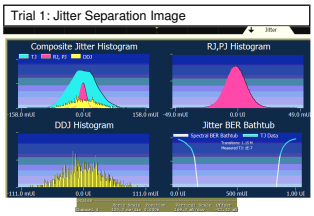
**Deterministic Jitter (DJ)** 191.5 mUI **Random Jitter (RJ)** 7.9 mUI **ISI Jitter (ISI)** 194.7 mUI **Data Dependent Jitter (DDJ)** 206.4 mUI **Bit Error Rate (BER)** E9 **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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✓ Lane 2 - HBR2CPAT Total Jitter Test (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.12: Table 3.19 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Total Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 580.000 mUI **Lane 2 HBR2CPAT Total Jitter Test (TP3_EQ)** 300.000 mUI

**Result Details**

**Jitter Separation Image** (See image) **Edges** 1.00000000 M **Total Jitter (TJ)** 300.0 mUI **Total Jitter (TJ) in ps** 55.5537 ps **Periodic Jitter (PJ rms)** 2.5 mUI **Periodic Jitter (PJ p-p)** 15.9 mUI

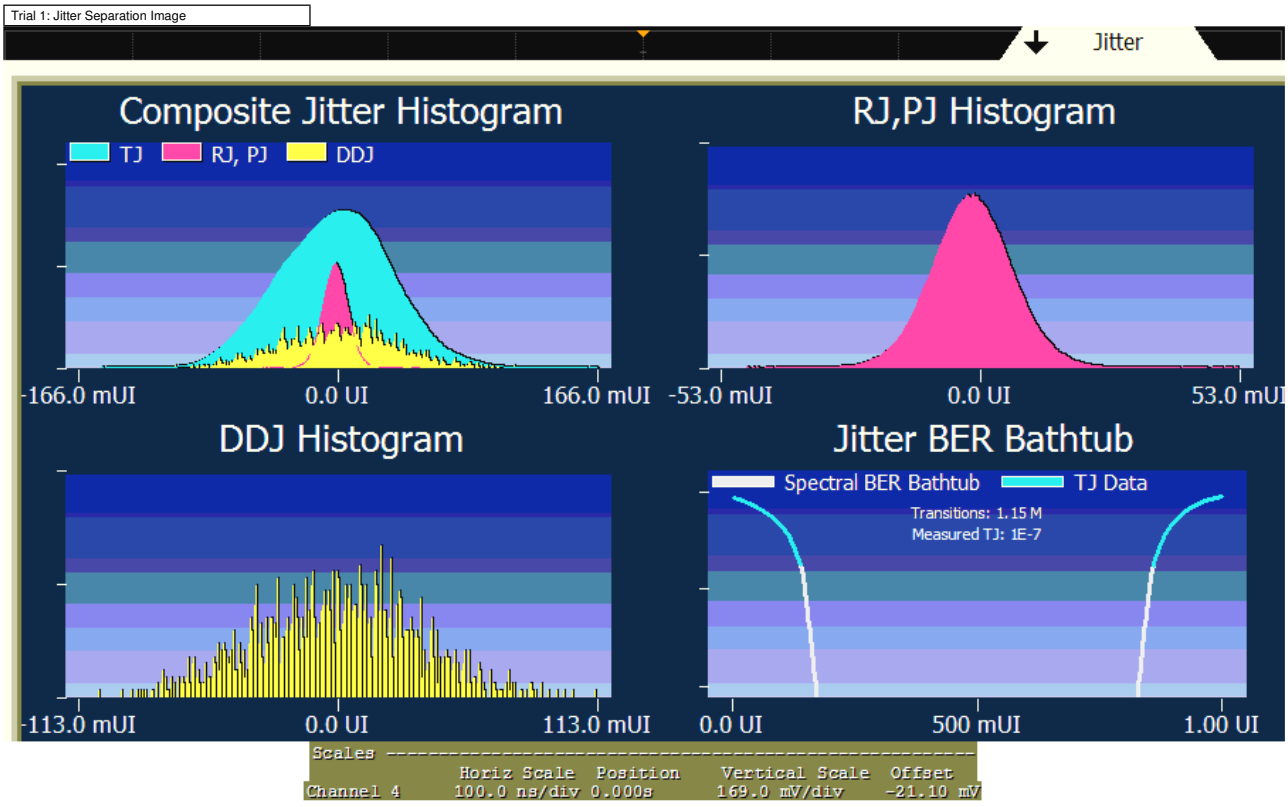
**Deterministic Jitter (DJ)** 205.1 mUI **Random Jitter (RJ)** 7.9 mUI **ISI Jitter (ISI)** 206.8 mUI **Data Dependent Jitter (DDJ)** 217.7 mUI **Bit Error Rate (BER)** E9 **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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Lane 3 - HBR2CPAT Total Jitter Test (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.12: Table 3.19 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Total Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

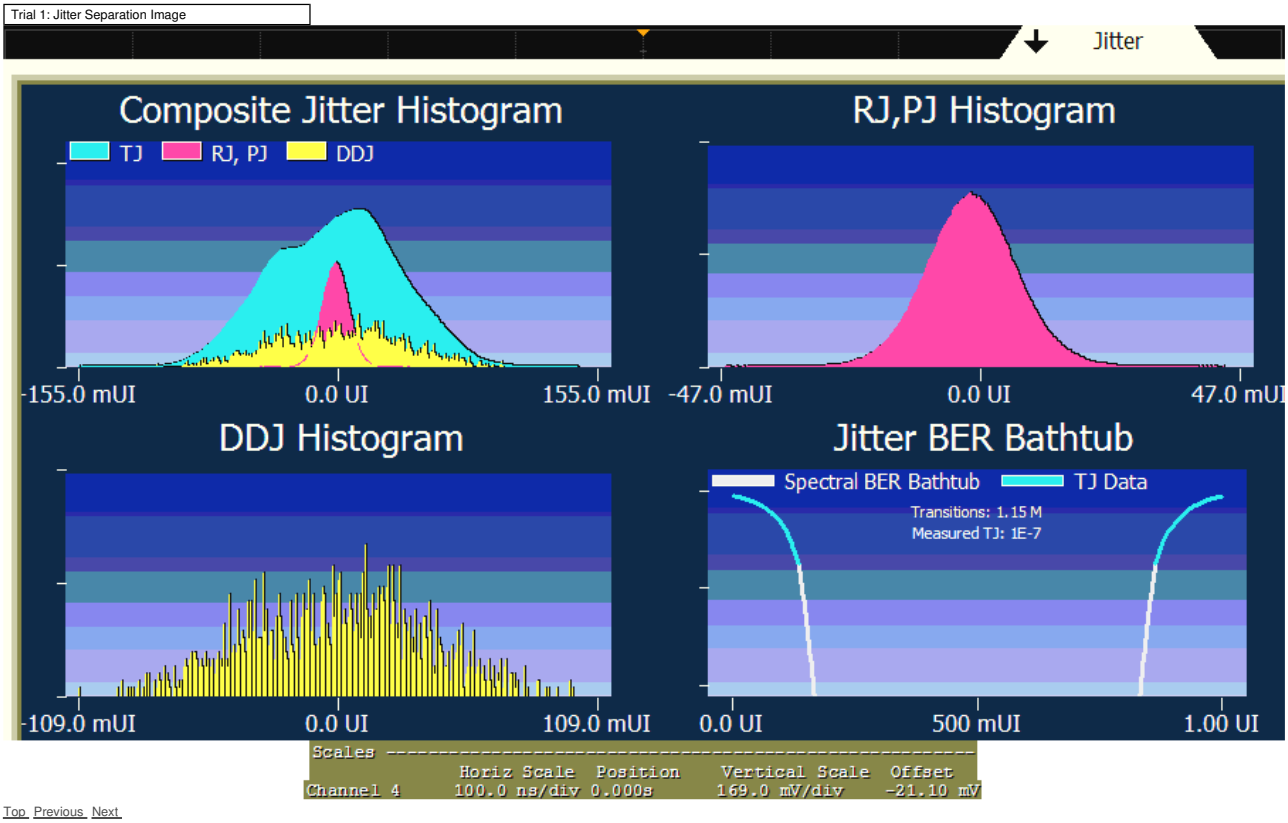
**Pass Limits:** <= 580.000 mUI | **HBR2CPAT Total Jitter Test (TP3_EQ)** 289.700 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.00000000 M | **Total Jitter (TJ)** 289.7 mUI | **Total Jitter (TJ) in ps** 53.6464 ps | **Periodic Jitter (PJ rms)** 2.1 mUI | **Periodic Jitter (PJ p-p)** 12.0 mUI | **Deterministic Jitter (DJ)** 194.5 mUI | **Random Jitter (RJ)** 7.9 mUI | **ISI Jitter (ISI)** 187.5 mUI | **Data Dependent Jitter (DDJ)** 208.2 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 0 - HBR2CPAT Deterministic Jitter Test (TP3_EQ)

Test Summary: Pass  Test Description: To evaluate the Deterministic Jitter No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

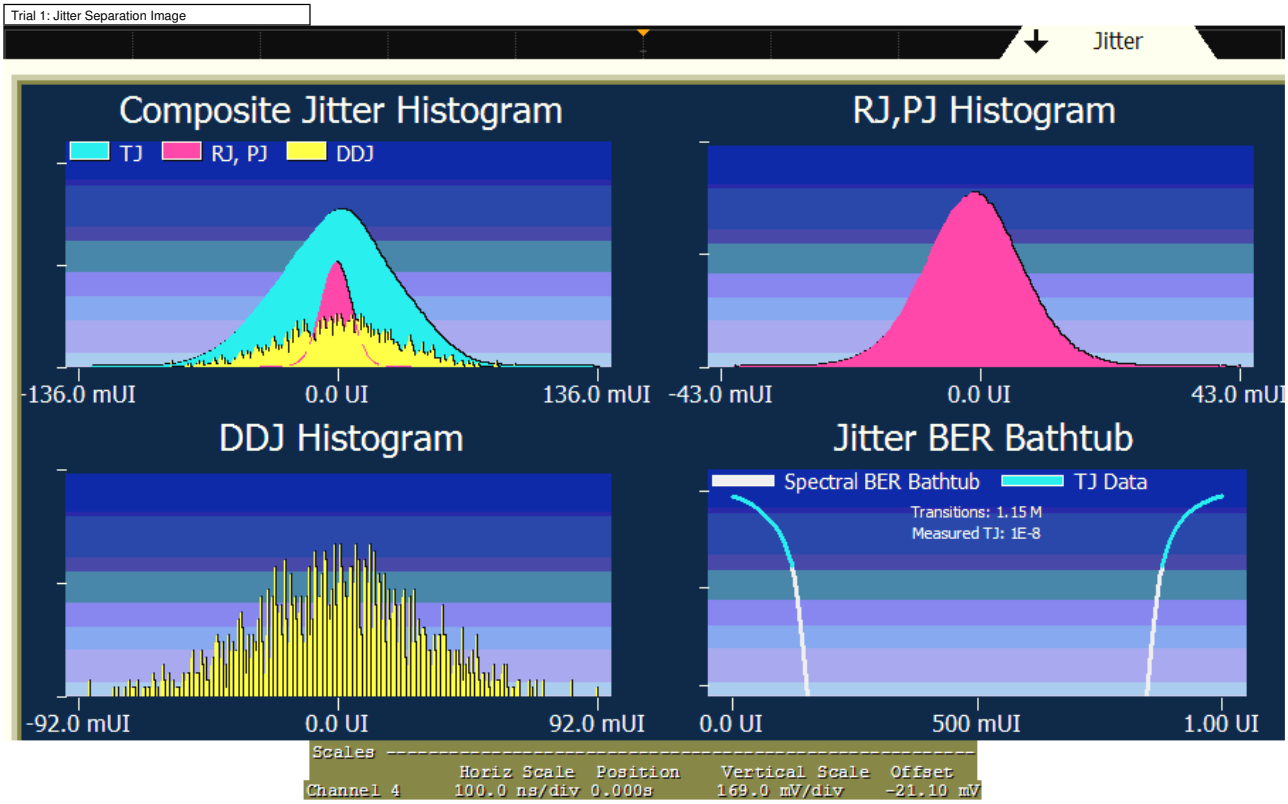
**Pass Limits:** <= 490.000 mUI | **HBR2CPAT Deterministic Jitter Test (TP3_EQ)** 168.200 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 262.6 mUI | **Total Jitter (TJ) in ps** 48.6283 ps | **Periodic Jitter (PJ rms)** 2.3 mUI | **Periodic Jitter (PJ p-p)** 11.3 mUI | **Deterministic Jitter (DJ)** 168.2 mUI | **Random Jitter (RJ)** 7.8 mUI | **ISI Jitter (ISI)** 154.4 mUI | **Data Dependent Jitter (DDJ)** 181.1 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 1 - HBR2CPAT Deterministic Jitter Test (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the Deterministic Jitter No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

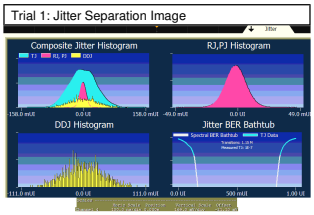
**Pass Limits:** <= 490.000 mUI | **HBR2CPAT Deterministic Jitter Test (TP3_EQ)** 191.500 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 286.7 mUI | **Total Jitter (TJ) in ps** 53.0909 ps | **Periodic Jitter (PJ rms)** 2.2 mUI | **Periodic Jitter (PJ p-p)** 12.7 mUI | **Deterministic Jitter (DJ)** 191.5 mUI | **Random Jitter (RJ)** 7.9 mUI | **ISI Jitter (ISI)** 194.7 mUI | **Data Dependent Jitter (DDJ)** 206.4 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 2 - HBR2CPAT Deterministic Jitter Test (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the Deterministic Jitter No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

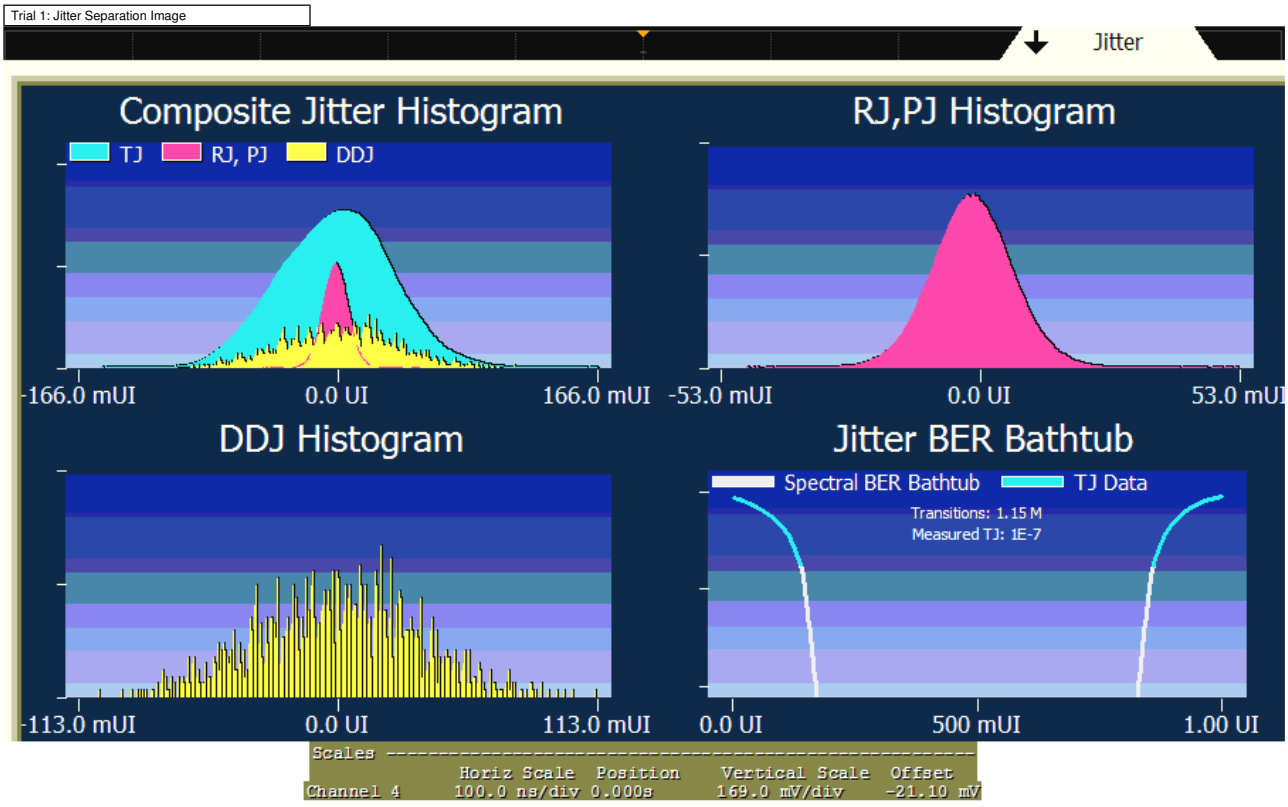
**Pass Limits:** <= 490.000 mUI | **Lane 2 HBR2CPAT Deterministic Jitter Test (TP3_EQ)** 205.100 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 300.0 mUI | **Total Jitter (TJ) in ps** 55.5537 ps | **Periodic Jitter (PJ rms)** 2.5 mUI | **Periodic Jitter (PJ p-p)** 15.9 mUI | **Deterministic Jitter (DJ)** 205.1 mUI | **Random Jitter (RJ)** 7.9 mUI | **ISI Jitter (ISI)** 206.8 mUI | **Data Dependent Jitter (DDJ)** 217.7 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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Lane 3 - HBR2CPAT Deterministic Jitter Test (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass

Test Description: To evaluate the Deterministic Jitter No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

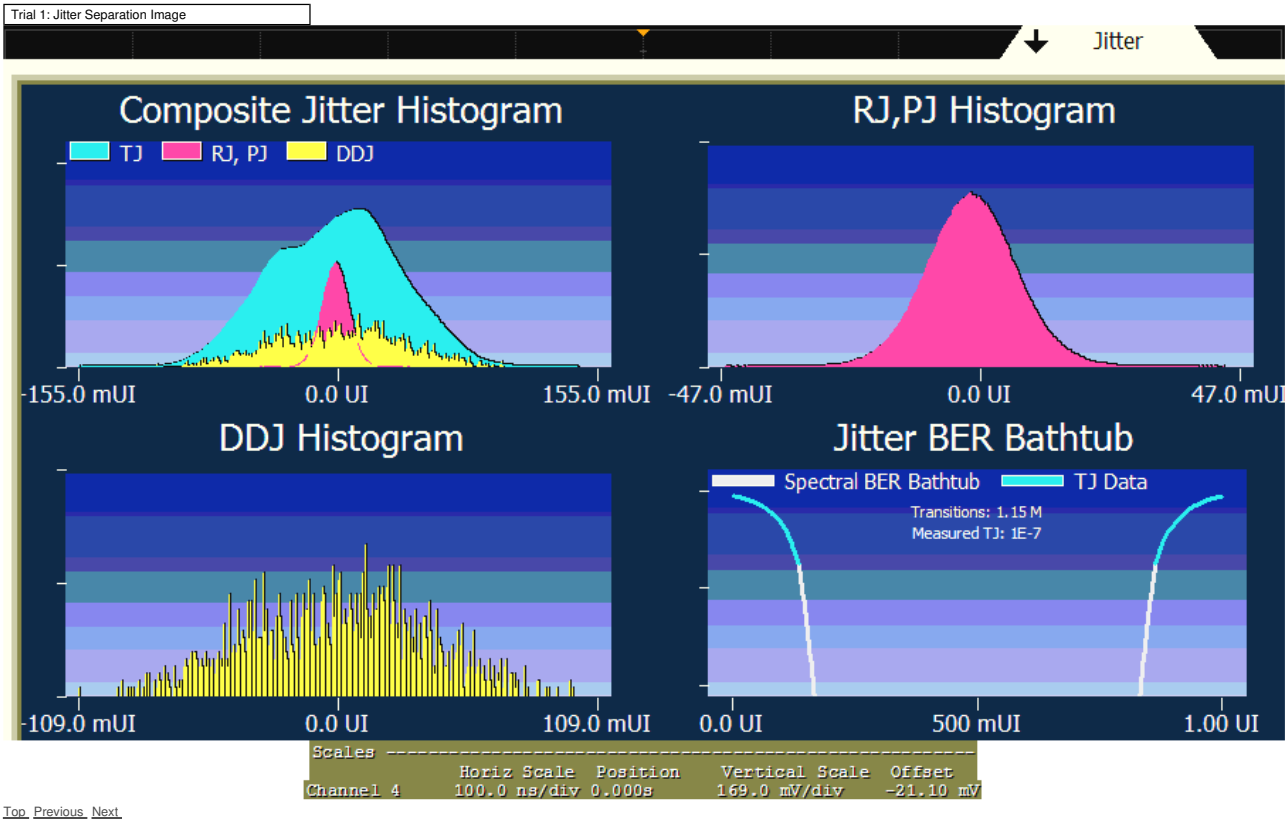
**Pass Limits:** <= 490.000 mUI | **HBR2CPAT Deterministic Jitter Test (TP3_EQ)** 194.500 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 289.7 mUI | **Total Jitter (TJ) in ps** 53.6464 ps | **Periodic Jitter (PJ rms)** 2.1 mUI | **Periodic Jitter (PJ p-p)** 12.0 mUI | **Deterministic Jitter (DJ)** 194.5 mUI | **Random Jitter (RJ)** 7.9 mUI | **ISI Jitter (ISI)** 187.5 mUI | **Data Dependent Jitter (DDJ)** 208.2 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 0 - PLTPAT - Peak to Peak Voltage Test

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass

Test Description: To evaluate the Peak to Peak Voltage.

**Pass Limits:** <= 1.380 V | **Peak to Peak Voltage (Worst of 9 Trials)** 1.081 V | **# Trials Run:** 9 | **Worst Trial:** Trial 9

**Overall Summary + details of 9 worst trials**

| Pass | Trial | Actual Value | Margin | VMax | VMin | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *772.9 mV* | *43.99 %* | | | | | | | | | | | | | |
| | *StdDev* | *192.1 mV* | *13.92 %* | | | | | | | | | | | | | |
| | *Range* | *624.4 mV* | *45.22 %* | | | | | | | | | | | | | |
| | *Min* | *456.9 mV* | *21.67 %* | | | | | | | | | | | | | |
| | *Max* | *1.081 V* | *66.88 %* | | | | | | | | | | | | | |
| | *Sum* | *6.956 V* | *395.9 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 | 874 mV | 36.7% | 427.140 mV | -446.740 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 906 mV | 34.3% | 449.130 mV | -456.680 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | 647 mV | 53.1% | 313.270 mV | -333.670 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | 780 mV | 43.5% | 388.630 mV | -391.560 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 5 | 799 mV | 42.1% | 395.270 mV | -404.080 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 6 | 457 mV | 66.9% | 218.190 mV | -238.660 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 7 | 553 mV | 59.9% | 268.850 mV | -283.960 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 8 | 859 mV | 37.8% | 427.080 mV | -431.750 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 9 (Worst) | 1.081 V | 21.7% | 530.840 mV | -550.450 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

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## Lane 1 - PLTPAT - Peak to Peak Voltage Test

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass  Test Description: To evaluate the peak to peak voltage.

**Pass Limits:** <= 1.380 V | **Peak to Peak Voltage (Worst of 10 Trials)** 1.093 V | **# Trials Run:** 10 | **Worst Trial:** Trial 10

**Overall Summary + details of 10 worst trials**

| Pass | Trial | Actual Value | Margin | VMax | VMin | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *790.4 mV* | *42.72 %* | | | | | | | | | | | | | |
| | *StdDev* | *207.8 mV* | *15.07 %* | | | | | | | | | | | | | |
| | *Range* | *631.8 mV* | *45.80 %* | | | | | | | | | | | | | |
| | *Min* | *461.5 mV* | *20.80 %* | | | | | | | | | | | | | |
| | *Max* | *1.093 V* | *66.59 %* | | | | | | | | | | | | | |
| | *Sum* | *7.904 V* | *427.2 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 | 872 mV | 36.8% | 427.240 mV | -444.550 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 987 mV | 28.5% | 483.710 mV | -502.970 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | 651 mV | 52.8% | 315.300 mV | -335.300 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | 794 mV | 42.5% | 387.890 mV | -406.580 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 5 | 861 mV | 37.6% | 411.980 mV | -448.920 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 6 | 461 mV | 66.6% | 222.040 mV | -239.440 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 7 | 564 mV | 59.1% | 273.150 mV | -291.150 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 8 | 627 mV | 54.6% | 296.640 mV | -330.650 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 9 | 994 mV | 28.0% | 486.970 mV | -506.770 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 10 (Worst) | 1.093 V | 20.8% | 534.220 mV | -559.020 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

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## Lane 2 - PLTPAT - Peak to Peak Voltage Test

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass

Test Description: To evaluate the peak to peak voltage.

**Pass Limits:** <= 1.380 V | **Peak to Peak Voltage (Worst of 10 Trials)** 1.091 V | **# Trials Run:** 10 | **Worst Trial:** Trial 10

**Overall Summary + details of 10 worst trials**

| Pass | Trial | Actual Value | Margin | VMax | VMin | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *808.3 mV* | *41.43 %* | | | | | | | | | | | | | |
| | *StdDev* | *201.4 mV* | *14.60 %* | | | | | | | | | | | | | |
| | *Range* | *614.2 mV* | *44.57 %* | | | | | | | | | | | | | |
| | *Min* | *476.5 mV* | *20.94 %* | | | | | | | | | | | | | |
| | *Max* | *1.091 V* | *65.51 %* | | | | | | | | | | | | | |
| | *Sum* | *8.083 V* | *414.3 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 | 890 mV | 35.5% | 437.370 mV | -452.570 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 937 mV | 32.1% | 455.870 mV | -481.190 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | 664 mV | 51.9% | 322.350 mV | -341.520 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | 790 mV | 42.8% | 379.950 mV | -409.600 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 5 | 955 mV | 30.8% | 463.080 mV | -492.080 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 6 | 476 mV | 65.5% | 229.730 mV | -246.730 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 7 | 549 mV | 60.2% | 261.440 mV | -287.310 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 8 | 733 mV | 46.9% | 353.010 mV | -380.350 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 9 | 998 mV | 27.7% | 488.330 mV | -509.850 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 10 (Worst) | 1.091 V | 20.9% | 535.130 mV | -555.520 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

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## Lane 3 - PLTPAT - Peak to Peak Voltage Test

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass  Test Description: To evaluate the peak to peak voltage.

**Pass Limits:** <= 1.380 V | **Peak to Peak Voltage (Worst of 10 Trials)** 1.099 V | **# Trials Run:** 10 | **Worst Trial:** Trial 10

**Overall Summary + details of 10 worst trials**

| Pass | Trial | Actual Value | Margin | VMax | VMin | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *784.8 mV* | *43.12 %* | | | | | | | | | | | | | |
| | *StdDev* | *205.4 mV* | *14.87 %* | | | | | | | | | | | | | |
| | *Range* | *647.4 mV* | *46.88 %* | | | | | | | | | | | | | |
| | *Min* | *451.6 mV* | *20.36 %* | | | | | | | | | | | | | |
| | *Max* | *1.099 V* | *67.25 %* | | | | | | | | | | | | | |
| | *Sum* | *7.848 V* | *431.2 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 | 874 mV | 36.7% | 426.850 mV | -447.020 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 982 mV | 28.8% | 479.090 mV | -503.170 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | 645 mV | 53.3% | 311.390 mV | -333.330 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | 787 mV | 43.0% | 382.220 mV | -404.700 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 5 | 908 mV | 34.2% | 442.480 mV | -465.500 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 6 | 452 mV | 67.2% | 216.540 mV | -235.010 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 7 | 555 mV | 59.8% | 266.880 mV | -287.920 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 8 | 641 mV | 53.6% | 310.590 mV | -330.380 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 9 | 906 mV | 34.3% | 434.300 mV | -471.500 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 10 (Worst) | 1.099 V | 20.4% | 535.470 mV | -563.470 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 5.4 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

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

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

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

**Pass Limits:** [5.2000 dB to 6.9000 dB] | **Lane 0 Non-PreEmphasis Level Test (Swing 2/Swing 0)** 5.7342 dB

**Result Details**

**Level VH Image (Swing 2)** (See image) | **Level VL Image (Swing 2)** (See image) | **Level VH Image (Swing 0)** (See image) | **Level VL Image (Swing 0)** (See image) | **Number of UI** 1000

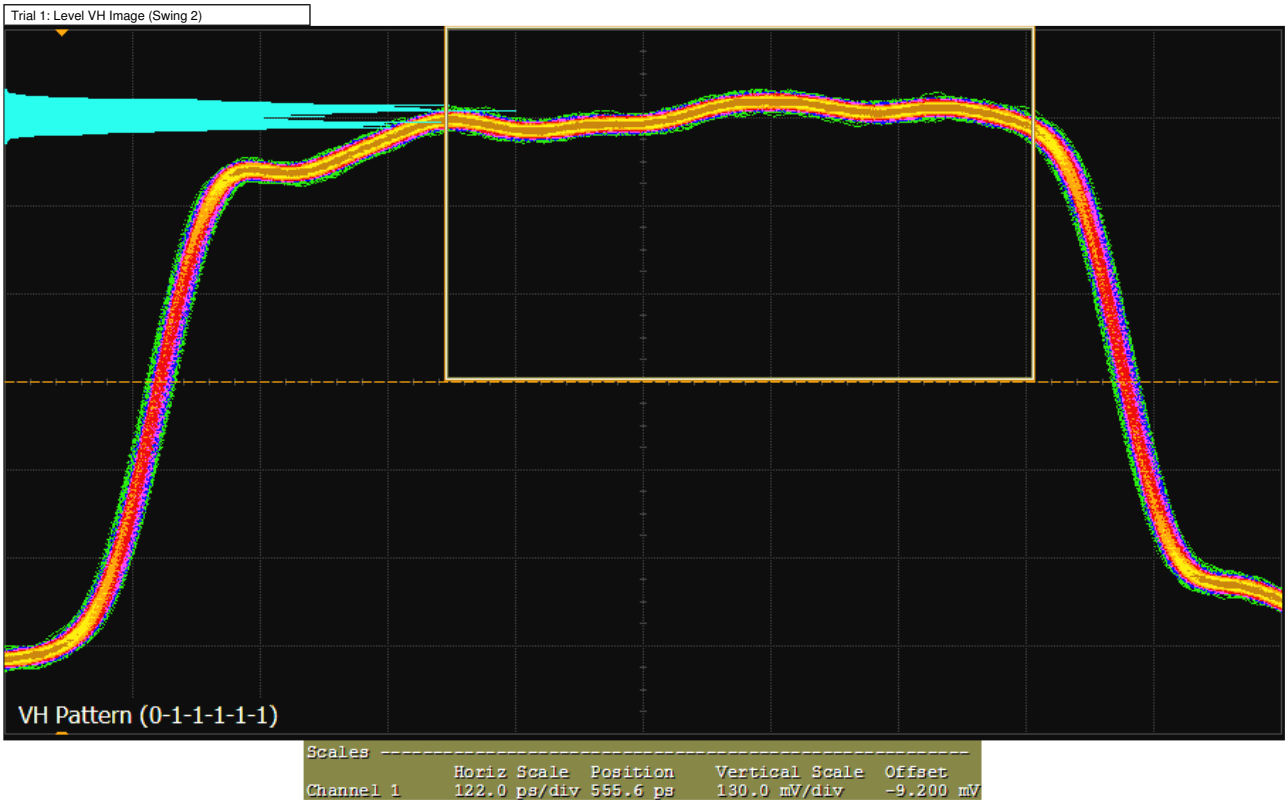
**VH Trigger Pattern** 011111 | **VL Trigger Pattern** 100000 | **VTop (Swing 2)** 382.349 mV | **VBase (Swing 2)** -406.953 mV | **VSwing (Swing 2)** 789.302 mV | **VTop (Swing 0)** 193.426 mV

**VBase(Swing 0)** -214.453 mV | **VSwing(Swing 0)** 407.879 mV | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source

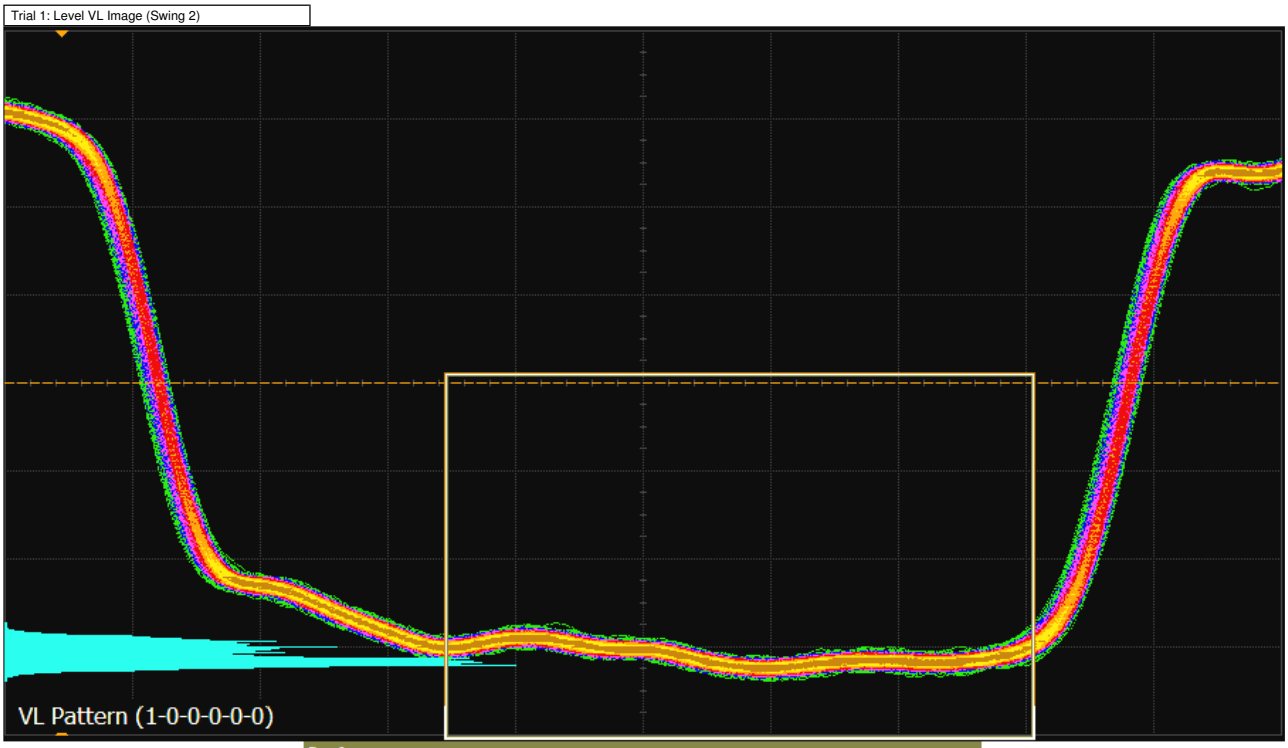
**Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 2 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

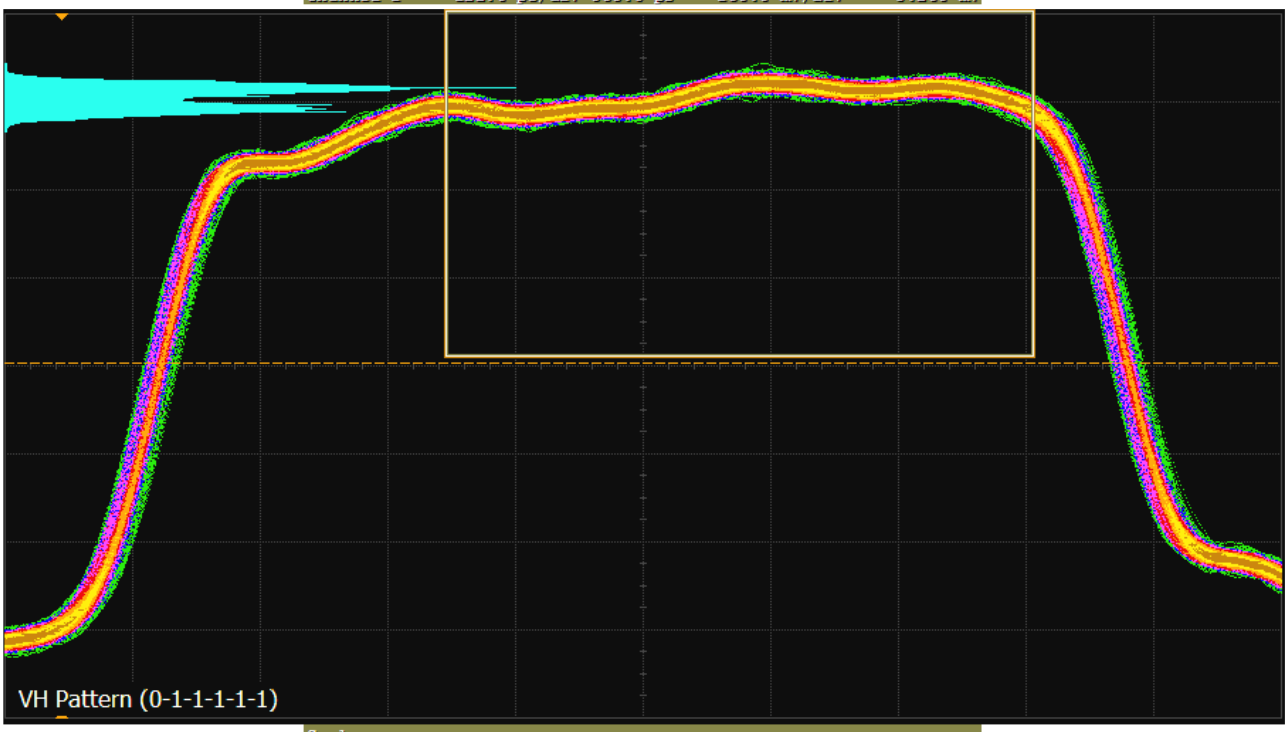
Trial 1: Level VH Image (Swing 2)



Trial 1: Level VL Image (Swing 2)

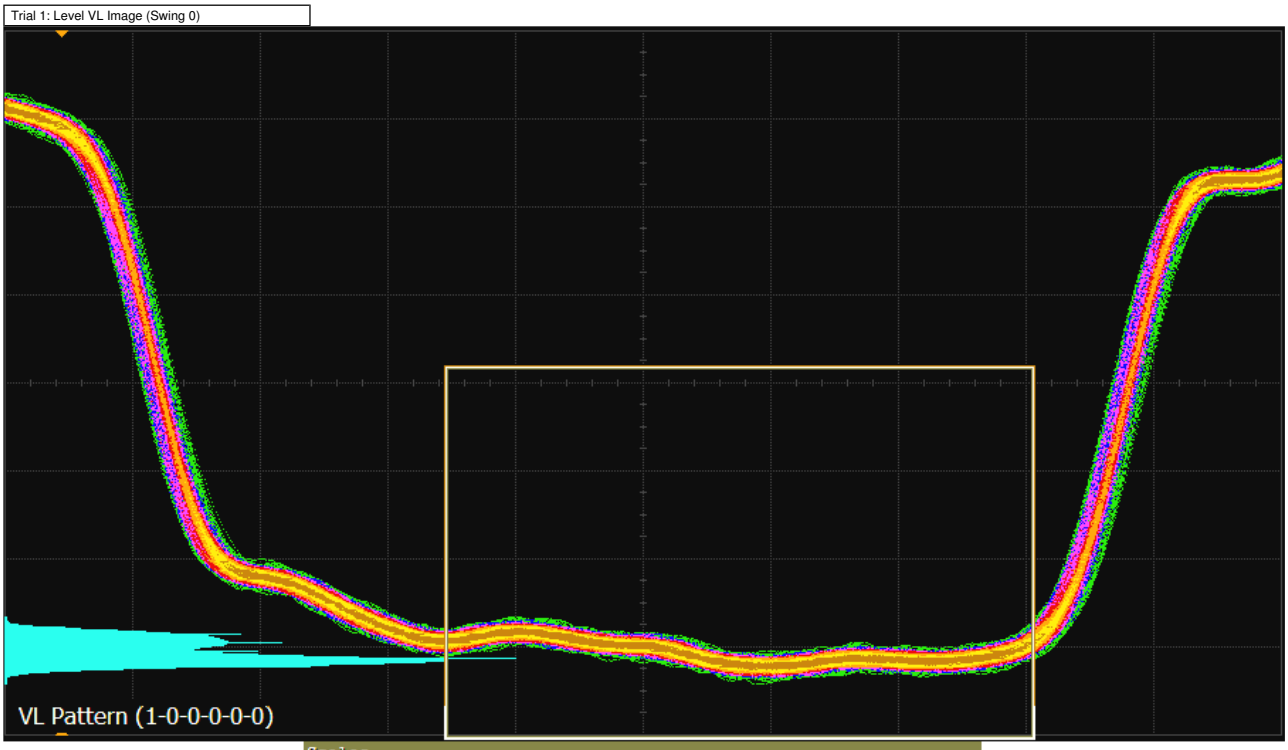



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 130.0 mV/div | -9.200 mV |




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 68.40 mV/div | -8.200 mV |

Trial 1: Level VL Image (Swing 0)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 68.40 mV/div | -8.200 mV |

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

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

Test Summary: Pass

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

**Pass Limits:** [1.6000 dB to 3.5000 dB] **Lane 0 Non-PreEmphasis Level Test (Swing 2/Swing 1)** 2.6962 dB

### Result Details

**Level VH Image (Swing 2)** (See image) **Level VL Image (Swing 2)** (See image) **Level VH Image (Swing 1)** (See image) **Level VL Image (Swing 1)** (See image) **Number of UI** 1000

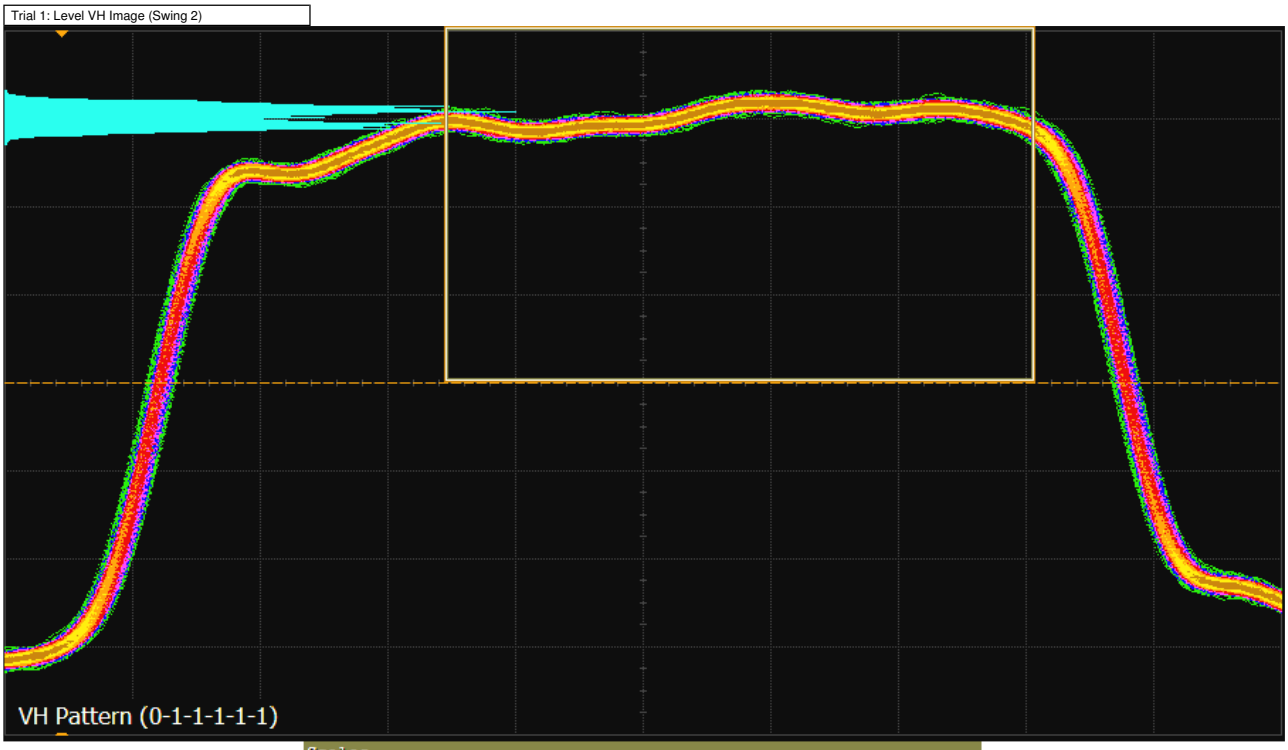
**VH Trigger Pattern** 011111 **VL Trigger Pattern** 100000 **VTop (Swing 2)** 382.349 mV **VBase (Swing 2)** -406.953 mV **VSwing (Swing 2)** 789.302 mV **VTop (Swing 1)** 277.980 mV

**VBase(Swing 1)** -300.693 mV **VSwing(Swing 1)** 578.674 mV **Test Mode** Compliance **Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source

**Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2 **PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

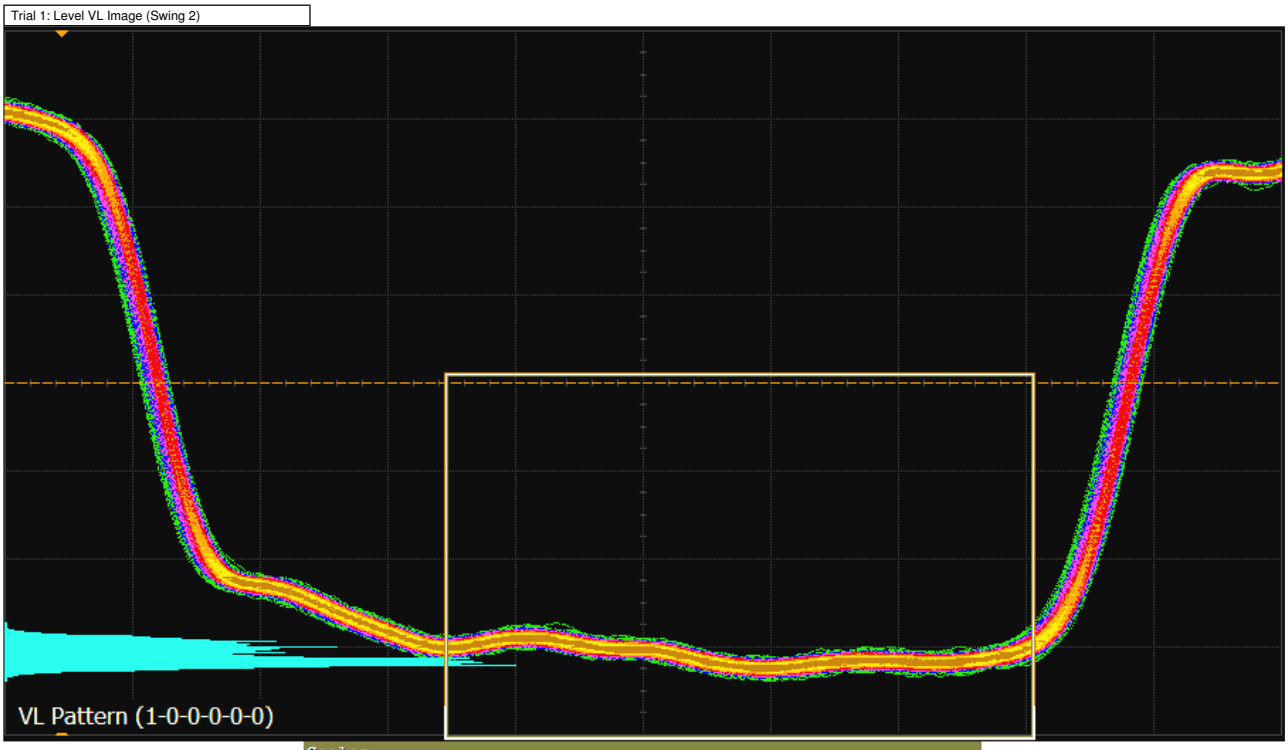
**Trial 1**

Trial 1: Level VH Image (Swing 2)



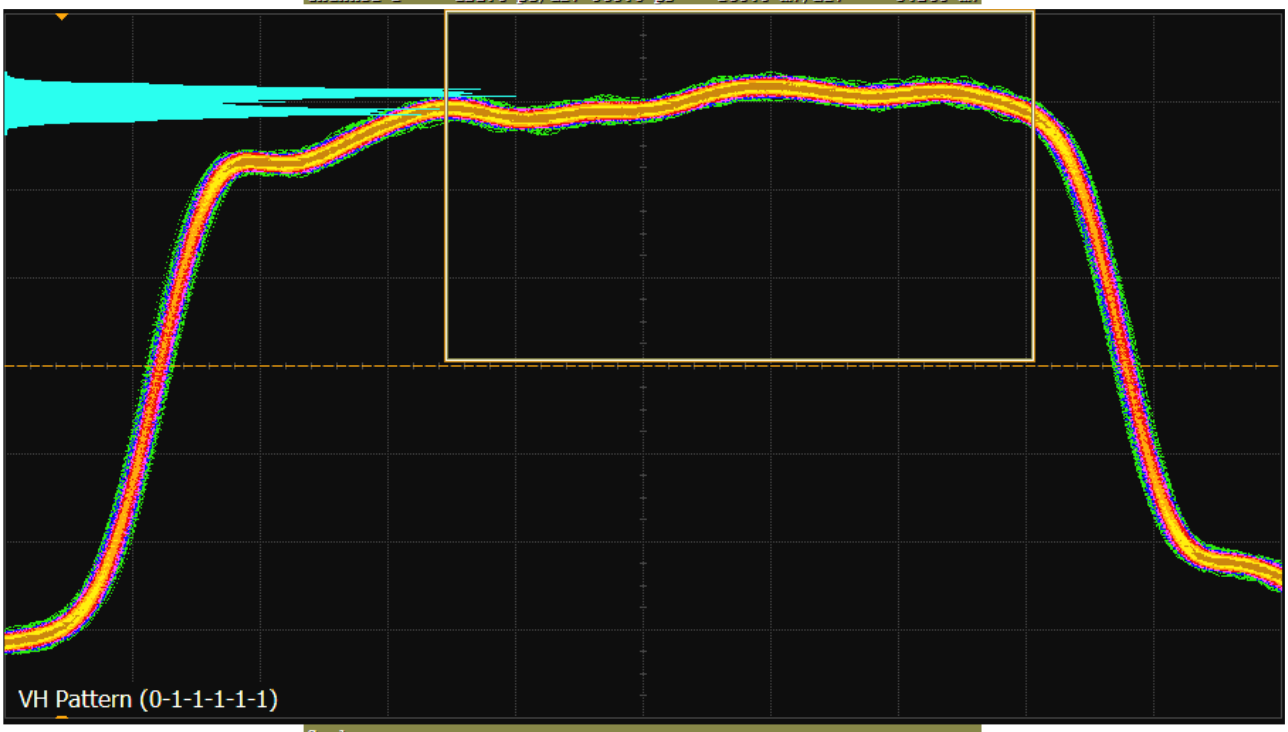

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 130.0 mV/div | -9.200 mV |

Trial 1: Level VL Image (Swing 2)




Scales

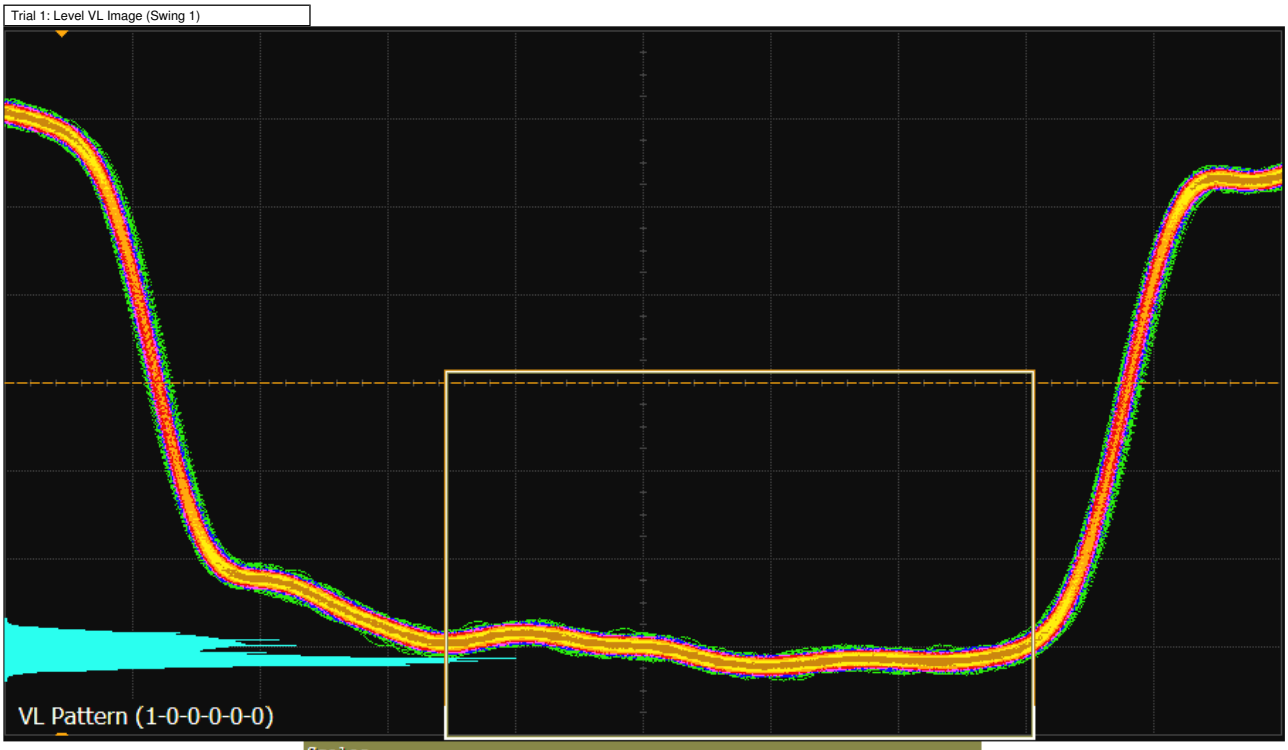
| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 130.0 mV/div | -9.200 mV |




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 96.60 mV/div | -9.000 mV |

Trial 1: Level VL Image (Swing 1)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 96.60 mV/div | -9.000 mV |

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

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

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

**Pass Limits:** [5.2000 dB to 6.9000 dB] **Lane 1 Non-PreEmphasis Level Test (Swing 2/Swing 0)** 5.6800 dB

### Result Details

**Level VH Image (Swing 2)** (See image) **Level VL Image (Swing 2)** (See image) **Level VH Image (Swing 0)** (See image) **Level VL Image (Swing 0)** (See image) **Number of UI** 1000

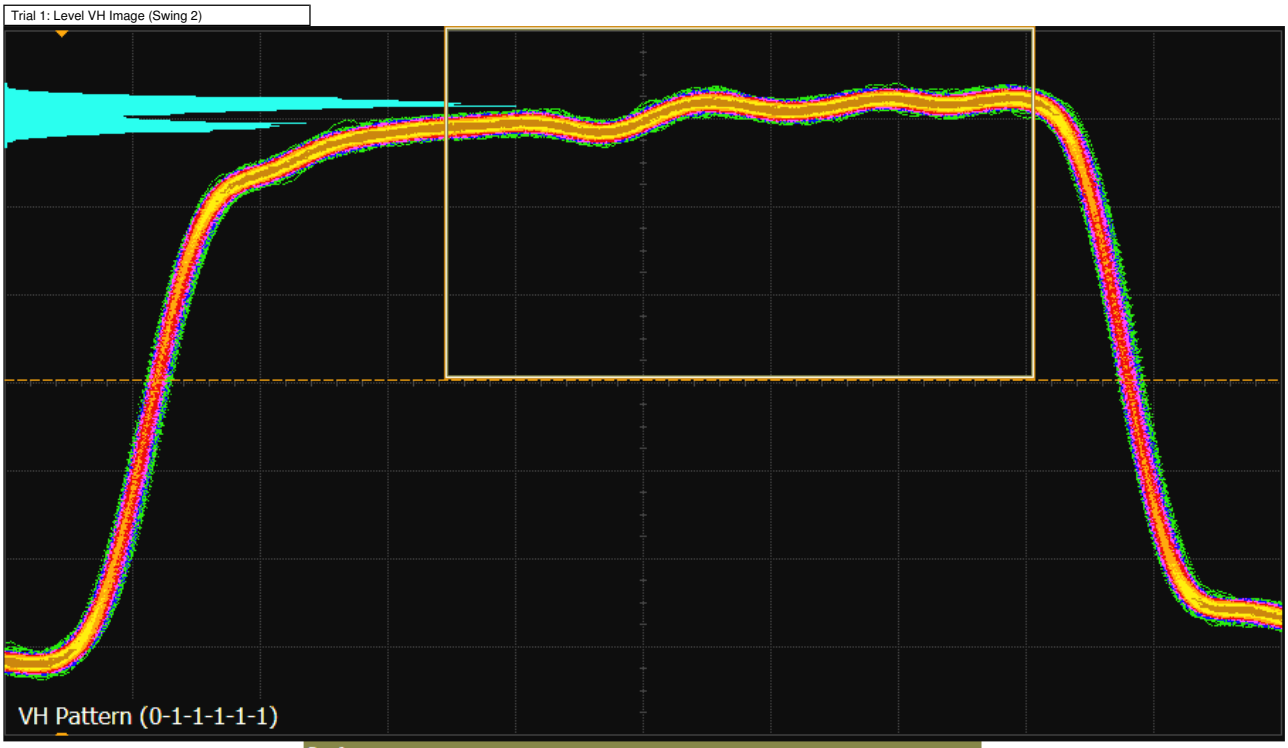
**VH Trigger Pattern** 011111 **VL Trigger Pattern** 100000 **VTop (Swing 2)** 381.989 mV **VBase (Swing 2)** -403.042 mV **VSwing (Swing 2)** 785.031 mV **VTop (Swing 0)** 194.318 mV

**VBase(Swing 0)** -213.893 mV **VSwing(Swing 0)** 408.211 mV **Test Mode** Compliance **Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source

**Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2 **PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

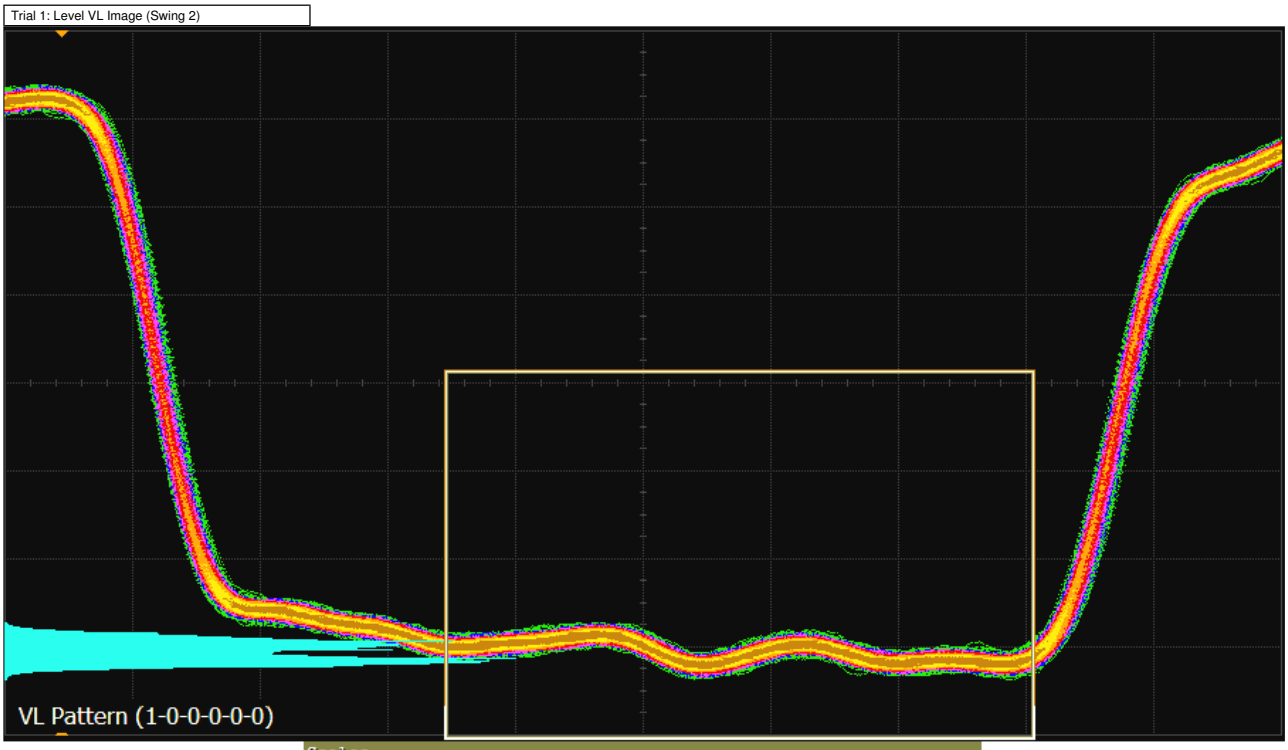
**Trial 1**

Trial 1: Level VH Image (Swing 2)

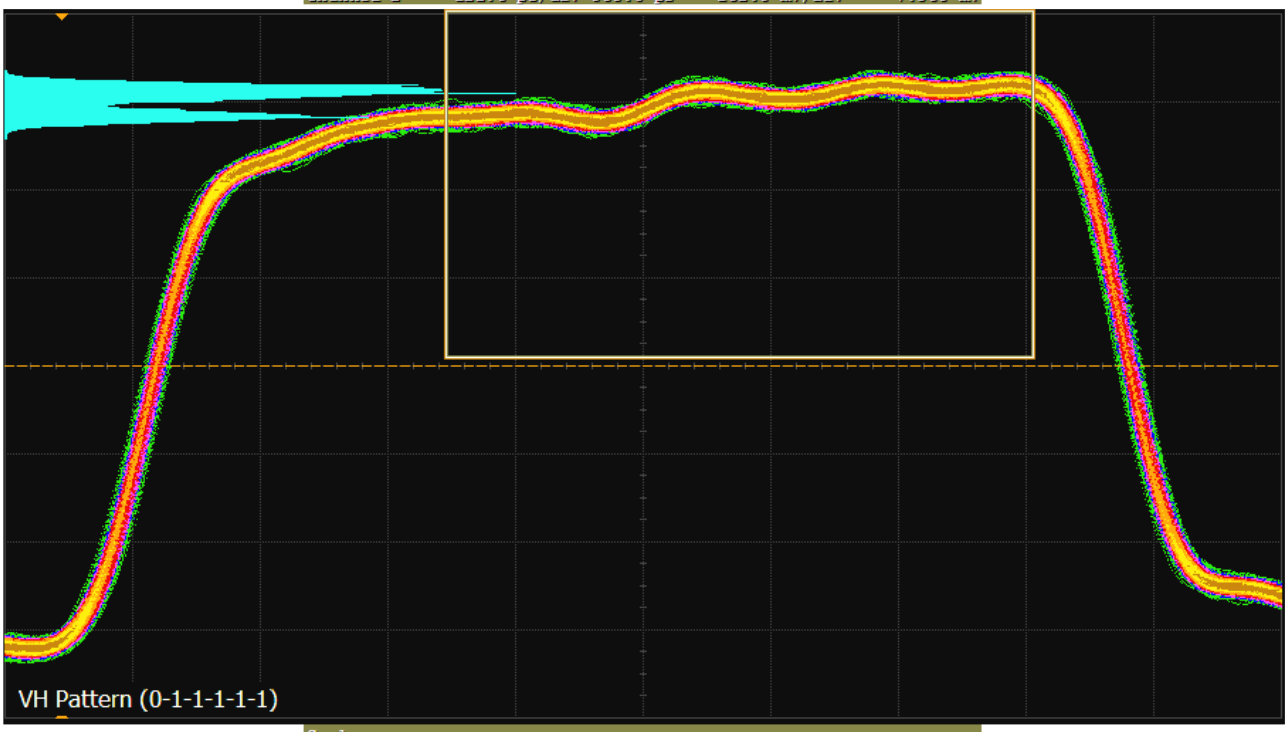



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 132.0 mV/div | -7.900 mV |

Trial 1: Level VL Image (Swing 2)

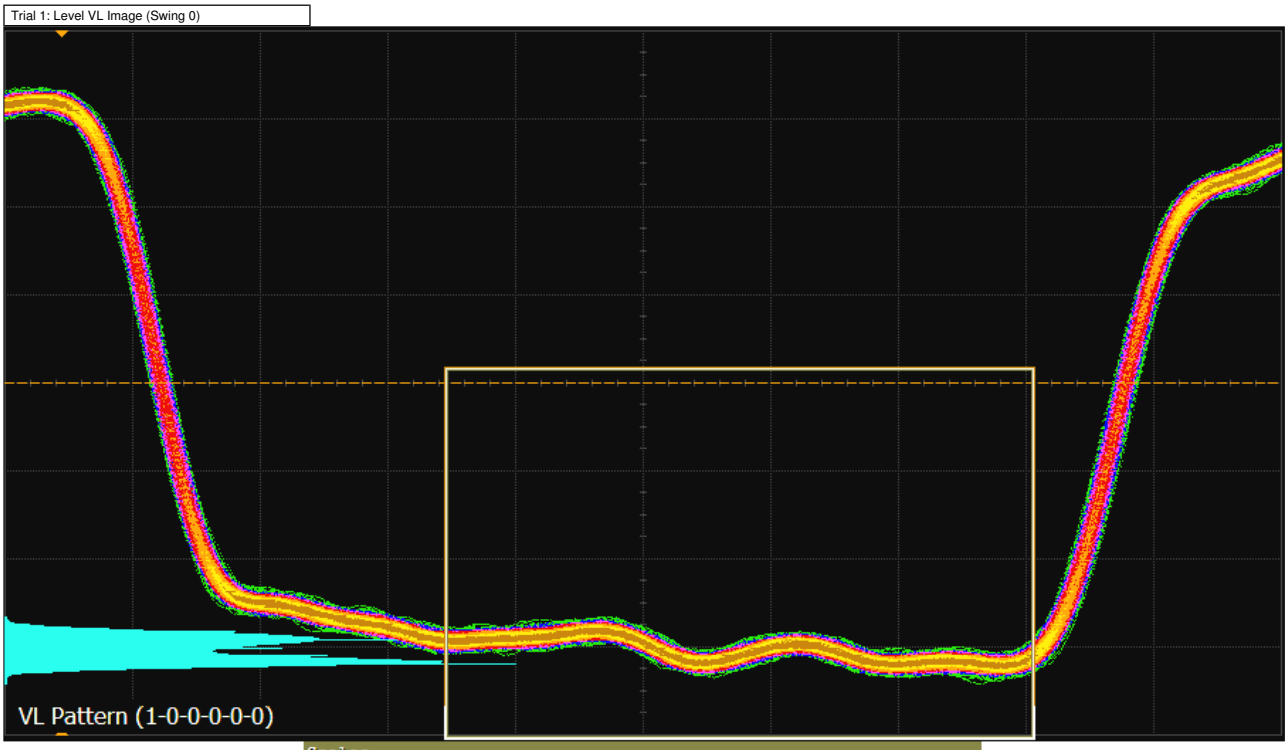



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 132.0 mV/div | -7.900 mV |




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 69.30 mV/div | -9.100 mV |

Trial 1: Level VL Image (Swing 0)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 69.30 mV/div | -9.100 mV |

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

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

Test Summary: Pass

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

**Pass Limits:** [1.6000 dB to 3.5000 dB] **Lane 1 Non-PreEmphasis Level Test (Swing 2/Swing 1)** 2.6135 dB

### Result Details

**Level VH Image (Swing 2)** (See image) **Level VL Image (Swing 2)** (See image) **Level VH Image (Swing 1)** (See image) **Level VL Image (Swing 1)** (See image) **Number of UI** 1000

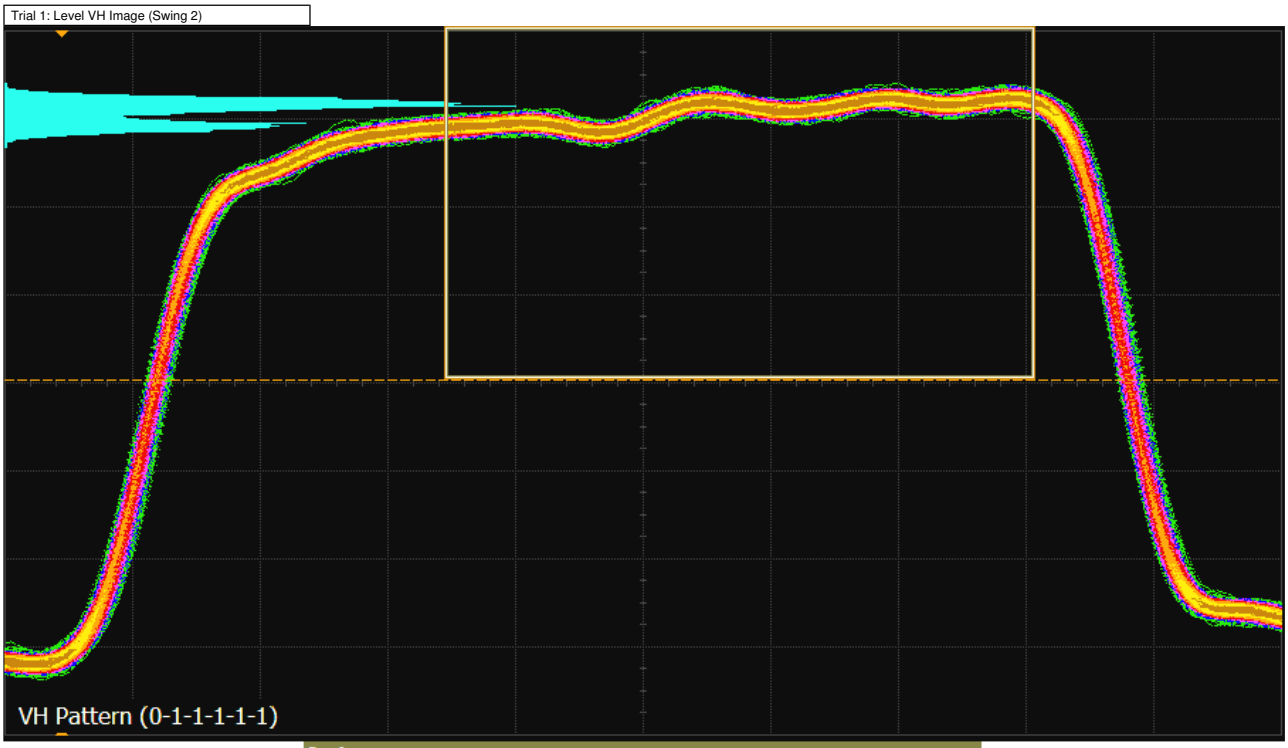
**VH Trigger Pattern** 011111 **VL Trigger Pattern** 100000 **VTop (Swing 2)** 381.989 mV **VBase (Swing 2)** -403.042 mV **VSwing (Swing 2)** 785.031 mV **VTop (Swing 1)** 279.833 mV

**VBase(Swing 1)** -301.213 mV **VSwing(Swing 1)** 581.046 mV **Test Mode** Compliance **Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source

**Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2 **PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

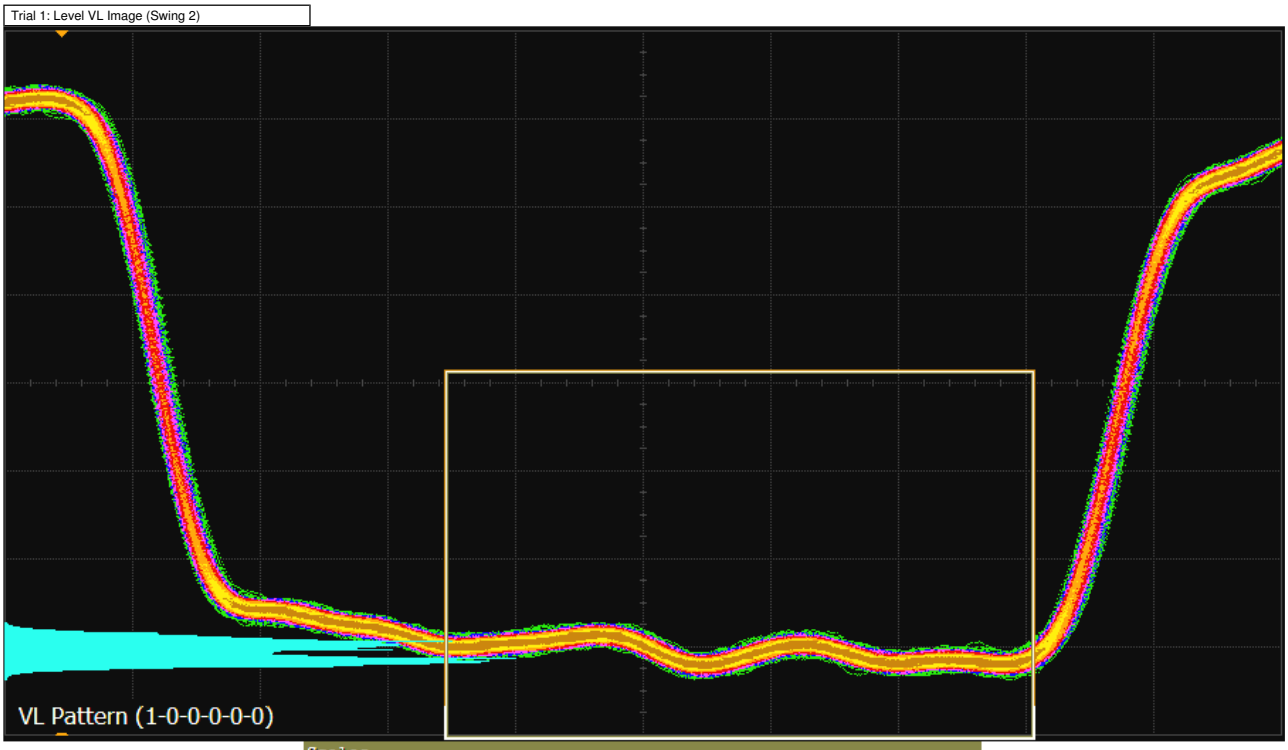
**Trial 1**

Trial 1: Level VH Image (Swing 2)



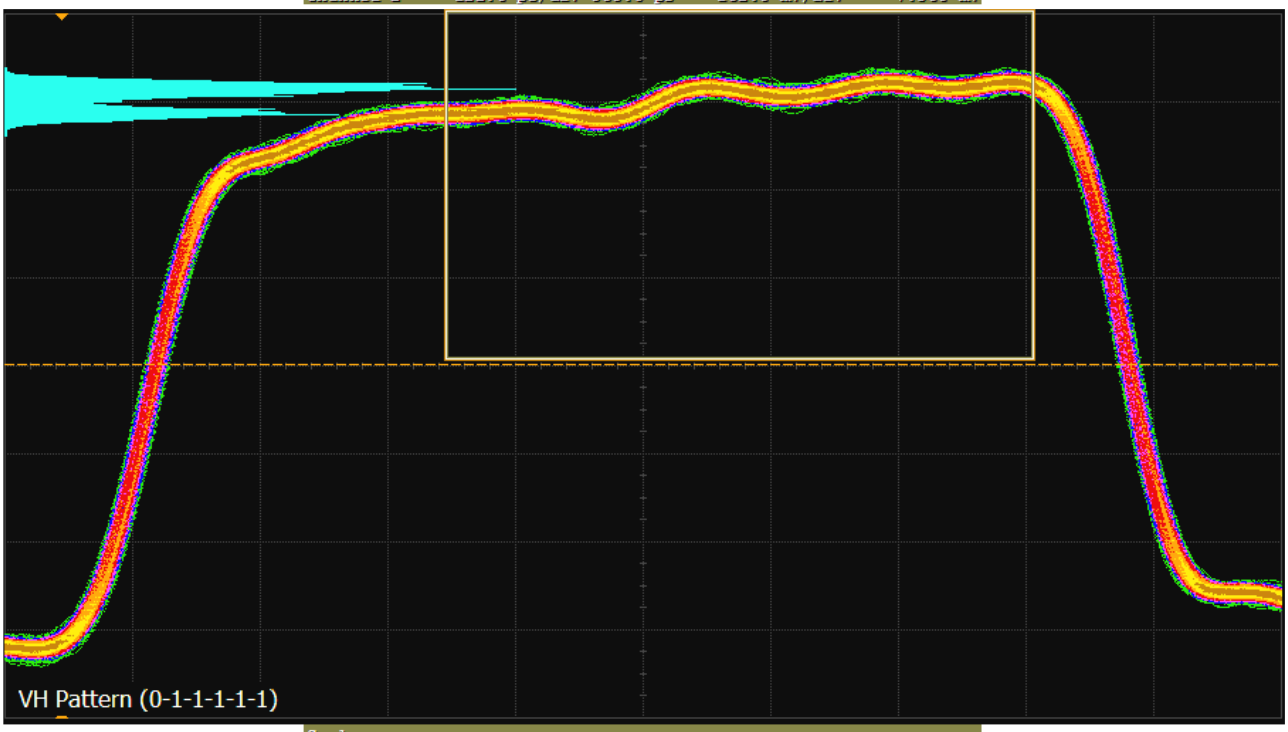

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 132.0 mV/div | -7.900 mV |

Trial 1: Level VL Image (Swing 2)




Scales

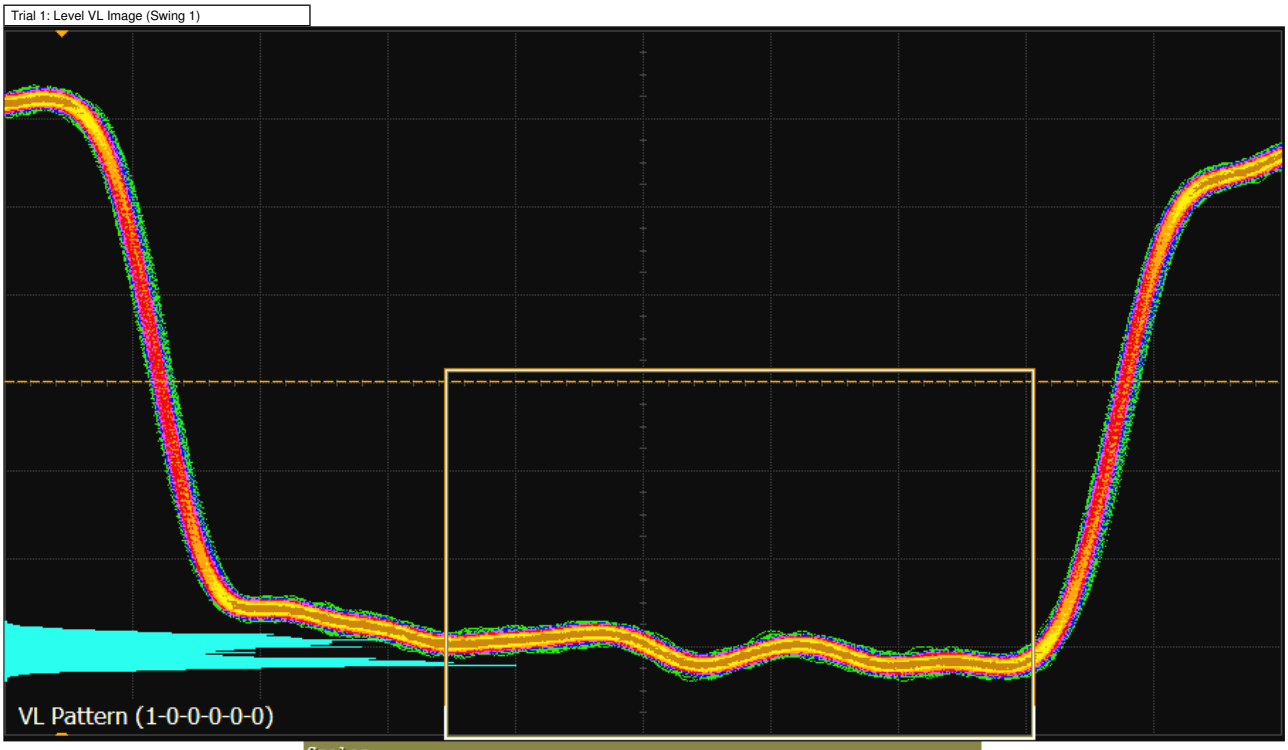
| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 132.0 mV/div | -7.900 mV |




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 96.80 mV/div | -9.500 mV |

Trial 1: Level VL Image (Swing 1)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 96.80 mV/div | -9.500 mV |

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

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

Test Summary: Pass

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

**Pass Limits:** [5.2000 dB to 6.9000 dB] **Lane 2 Non-PreEmphasis Level Test (Swing 2/Swing 0)** 5.4931 dB

### Result Details

**Level VH Image (Swing 2)** (See image) **Level VL Image (Swing 2)** (See image) **Level VH Image (Swing 0)** (See image) **Level VL Image (Swing 0)** (See image) **Number of UI** 1000

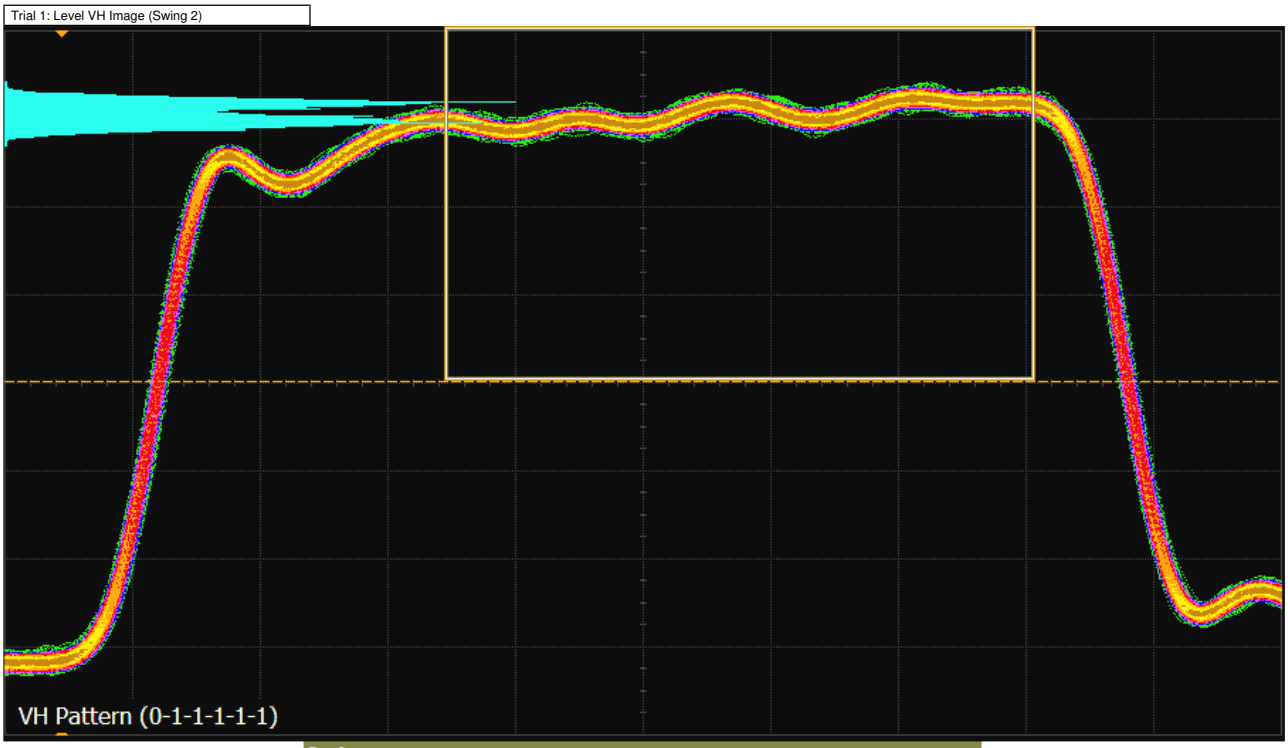
**VH Trigger Pattern** 011111 **VL Trigger Pattern** 100000 **VTop (Swing 2)** 389.754 mV **VBase (Swing 2)** -410.343 mV **VSwing (Swing 2)** 800.097 mV **VTop (Swing 0)** 203.827 mV

**VBase(Swing 0)** -221.268 mV **VSwing(Swing 0)** 425.095 mV **Test Mode** Compliance **Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source

**Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2 **PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

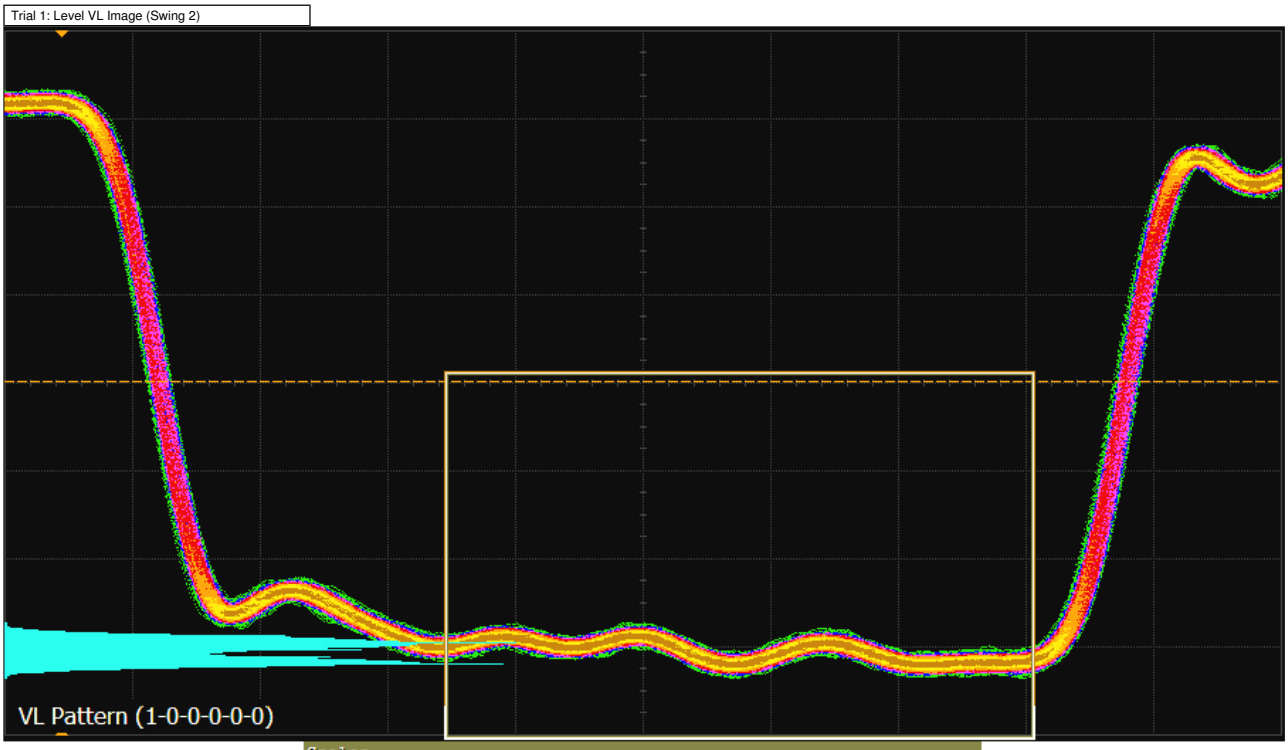
**Trial 1**

Trial 1: Level VH Image (Swing 2)



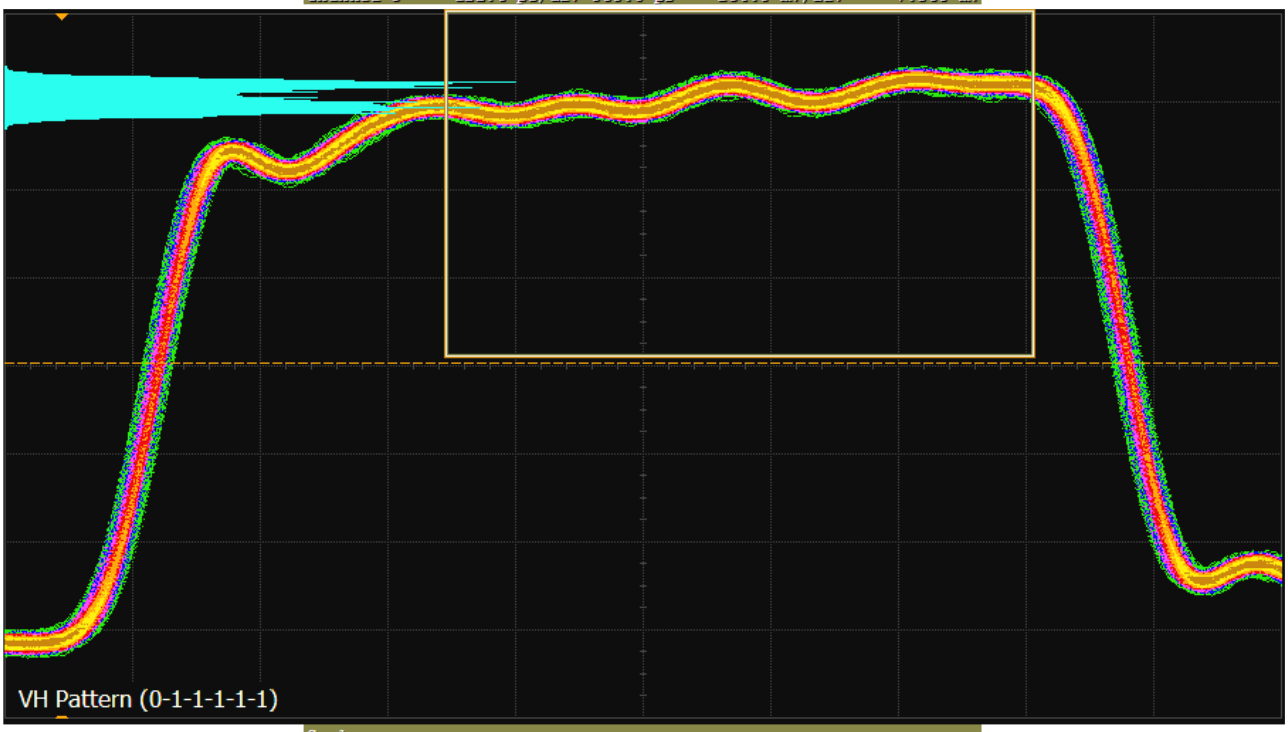

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 134.0 mV/div | -7.800 mV |

Trial 1: Level VL Image (Swing 2)




Scales

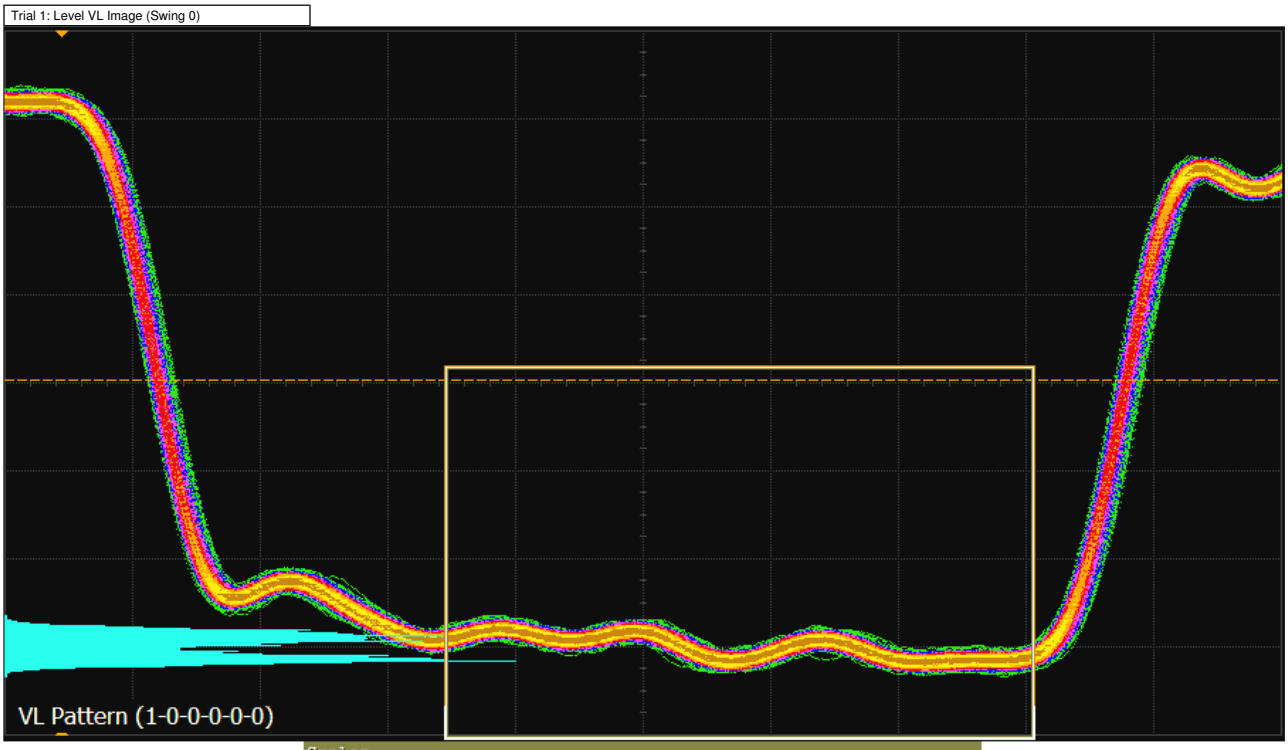
| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 134.0 mV/div | -7.800 mV |




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 70.40 mV/div | -7.800 mV |

Trial 1: Level VL Image (Swing 0)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 70.40 mV/div | -7.800 mV |

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

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

Test Summary: Pass

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

**Pass Limits:** [1.6000 dB to 3.5000 dB] **Lane 2 Non-PreEmphasis Level Test (Swing 2/Swing 1)** 2.5816 dB

### Result Details

**Level VH Image (Swing 2)** (See image) **Level VL Image (Swing 2)** (See image) **Level VH Image (Swing 1)** (See image) **Level VL Image (Swing 1)** (See image) **Number of UI** 1000

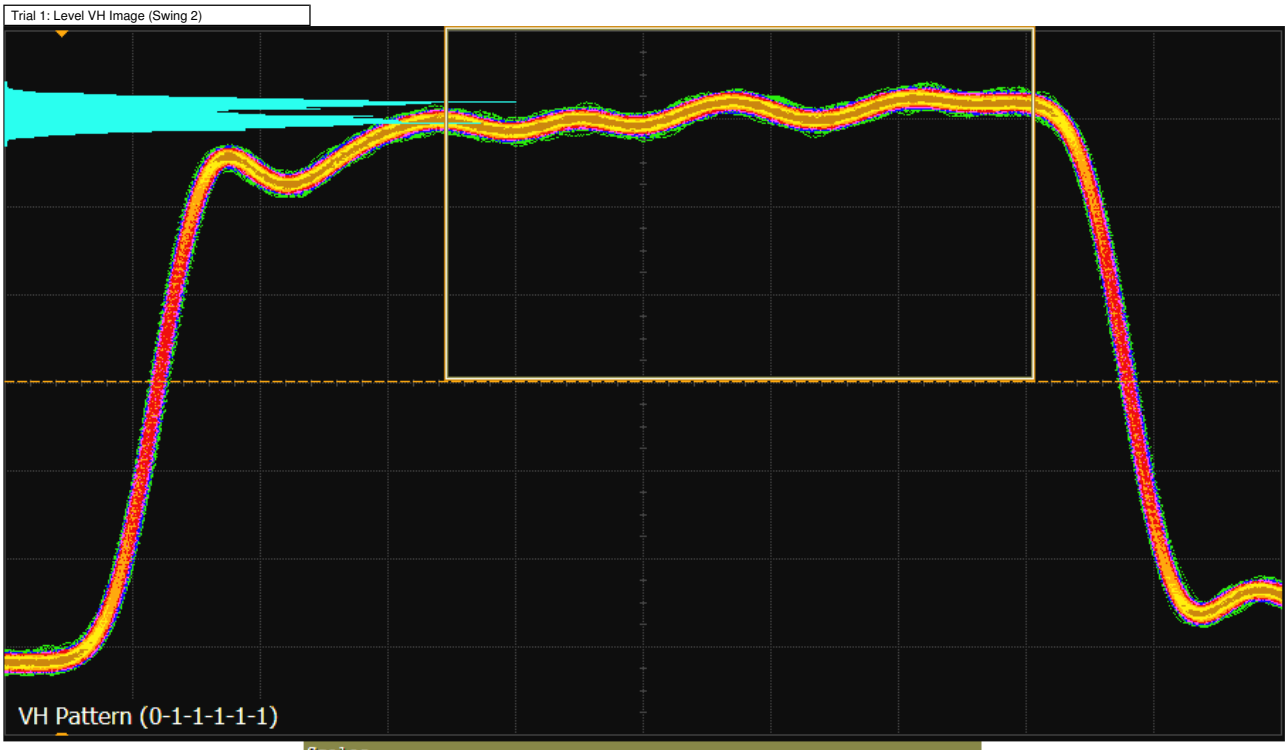
**VH Trigger Pattern** 011111 **VL Trigger Pattern** 100000 **VTop (Swing 2)** 389.754 mV **VBase (Swing 2)** -410.343 mV **VSwing (Swing 2)** 800.097 mV **VTop (Swing 1)** 287.727 mV

**VBase(Swing 1)** -306.648 mV **VSwing(Swing 1)** 594.375 mV **Test Mode** Compliance **Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source

**Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2 **PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

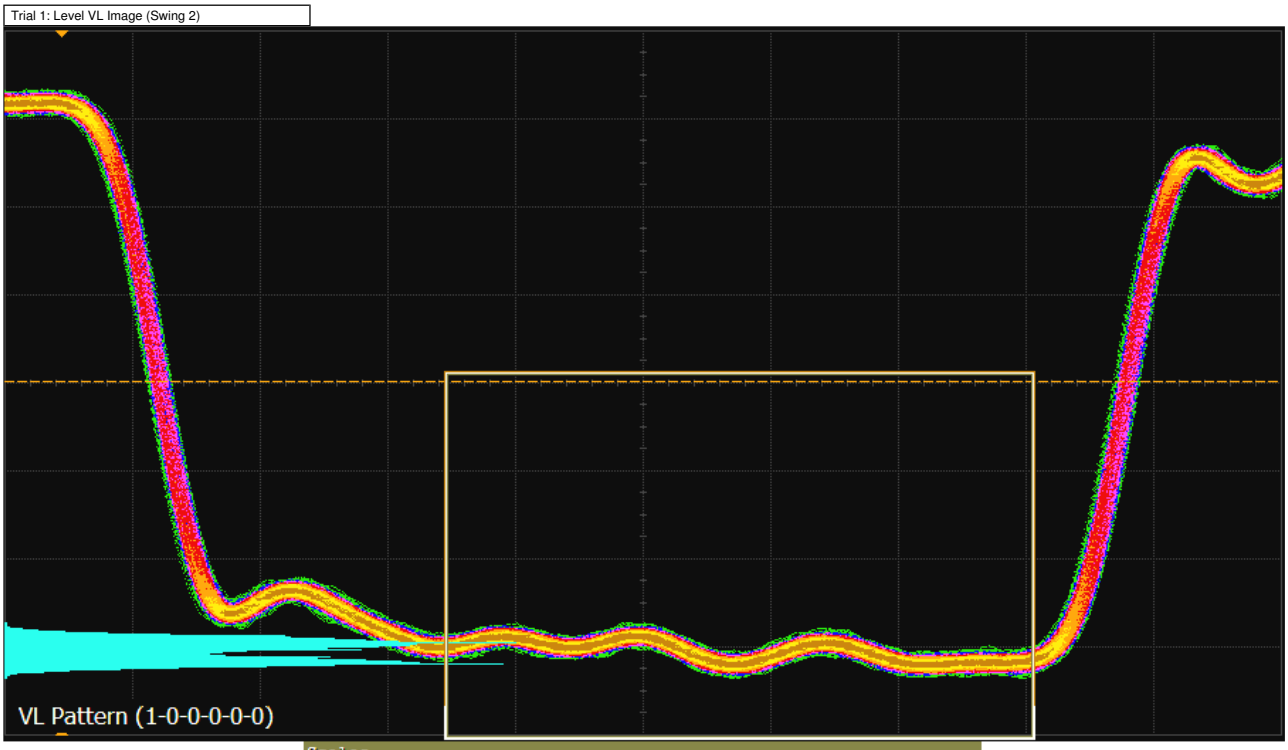
**Trial 1**

Trial 1: Level VH Image (Swing 2)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 134.0 mV/div | -7.800 mV |

Trial 1: Level VL Image (Swing 2)



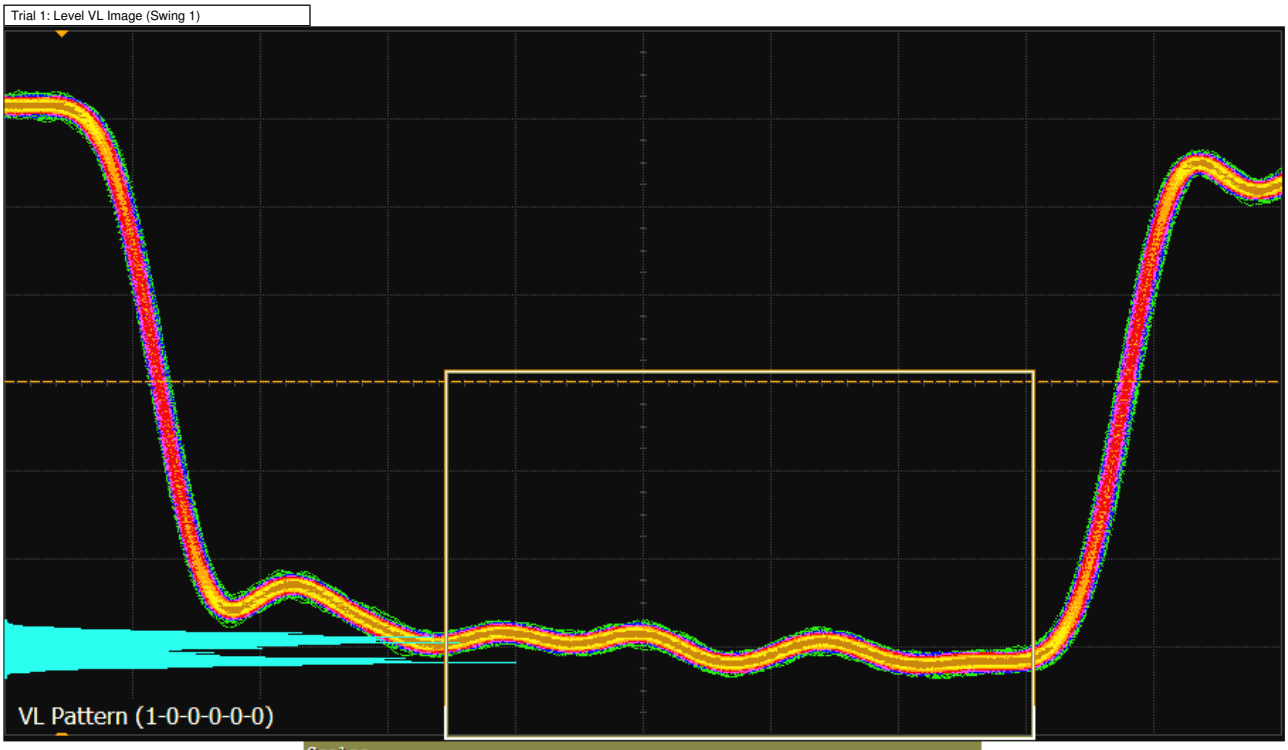

Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 134.0 mV/div | -7.800 mV |


Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 98.60 mV/div | -6.900 mV |

Trial 1: Level VL Image (Swing 1)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 98.60 mV/div | -6.900 mV |

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## Lane 3 - PLTPAT - Non-PreEmphasis Level Test (Swing 2/ Swing 0)

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

Test Summary: Pass

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

**Pass Limits:** [5.2000 dB to 6.9000 dB] **Lane 3 Non-PreEmphasis Level Test (Swing 2/Swing 0)** 5.9114 dB

### Result Details

**Level VH Image (Swing 2)** (See image) **Level VL Image (Swing 2)** (See image) **Level VH Image (Swing 0)** (See image) **Level VL Image (Swing 0)** (See image) **Number of UI** 1000

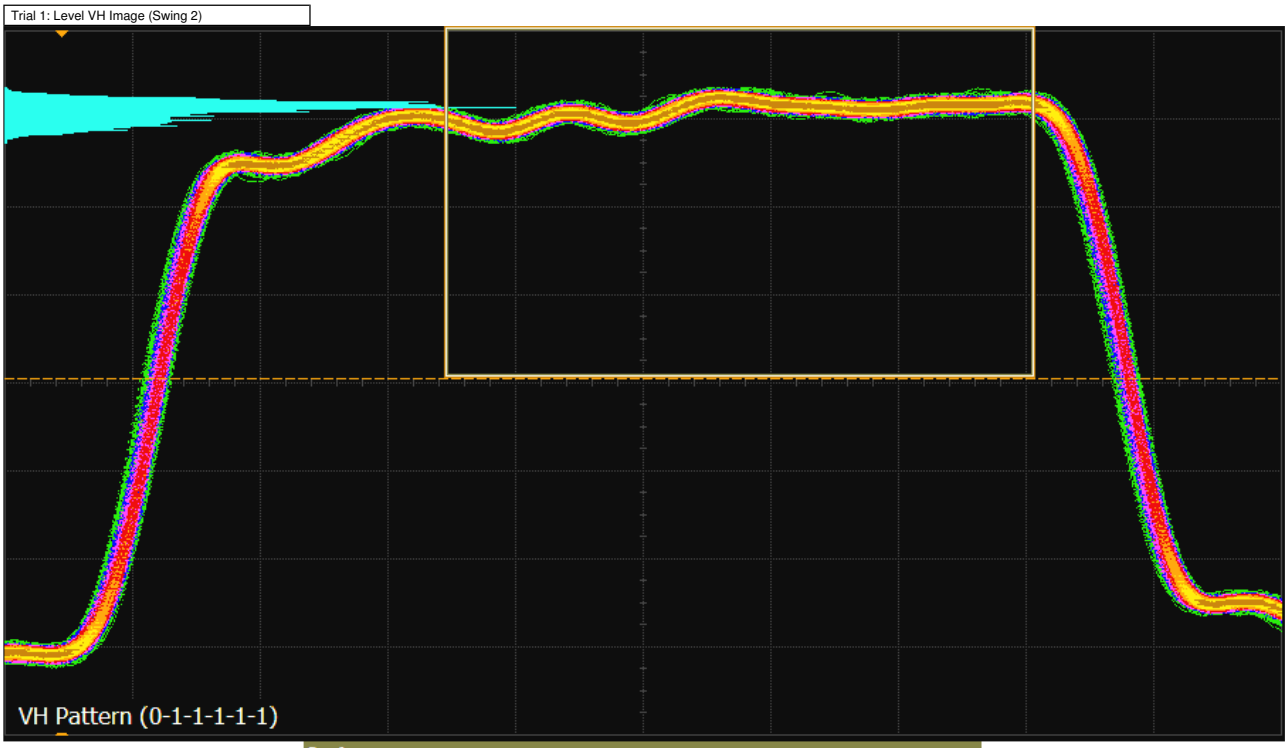
**VH Trigger Pattern** 011111 **VL Trigger Pattern** 100000 **VTop (Swing 2)** 386.243 mV **VBase (Swing 2)** -408.020 mV **VSwing (Swing 2)** 794.263 mV **VTop (Swing 0)** 192.181 mV

**VBase(Swing 0)** -209.976 mV **VSwing(Swing 0)** 402.157 mV **Test Mode** Compliance **Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source

**Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2 **PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

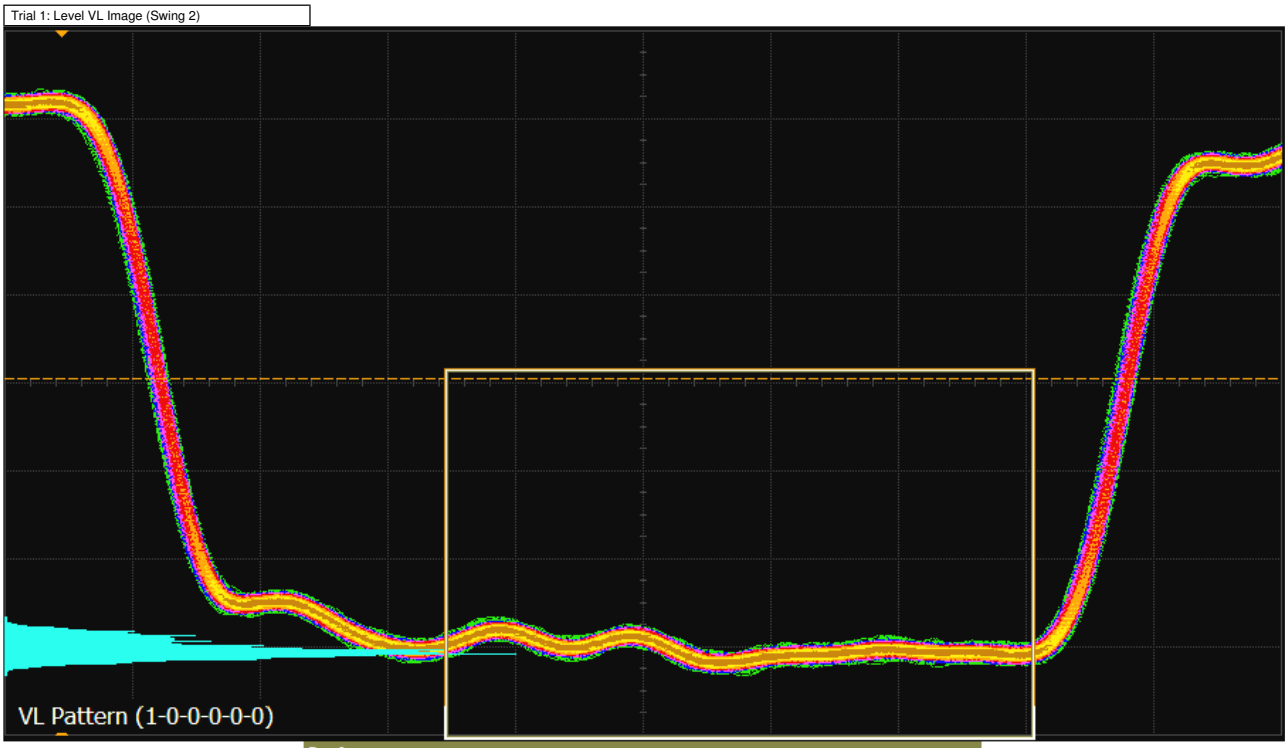
**Trial 1**

Trial 1: Level VH Image (Swing 2)



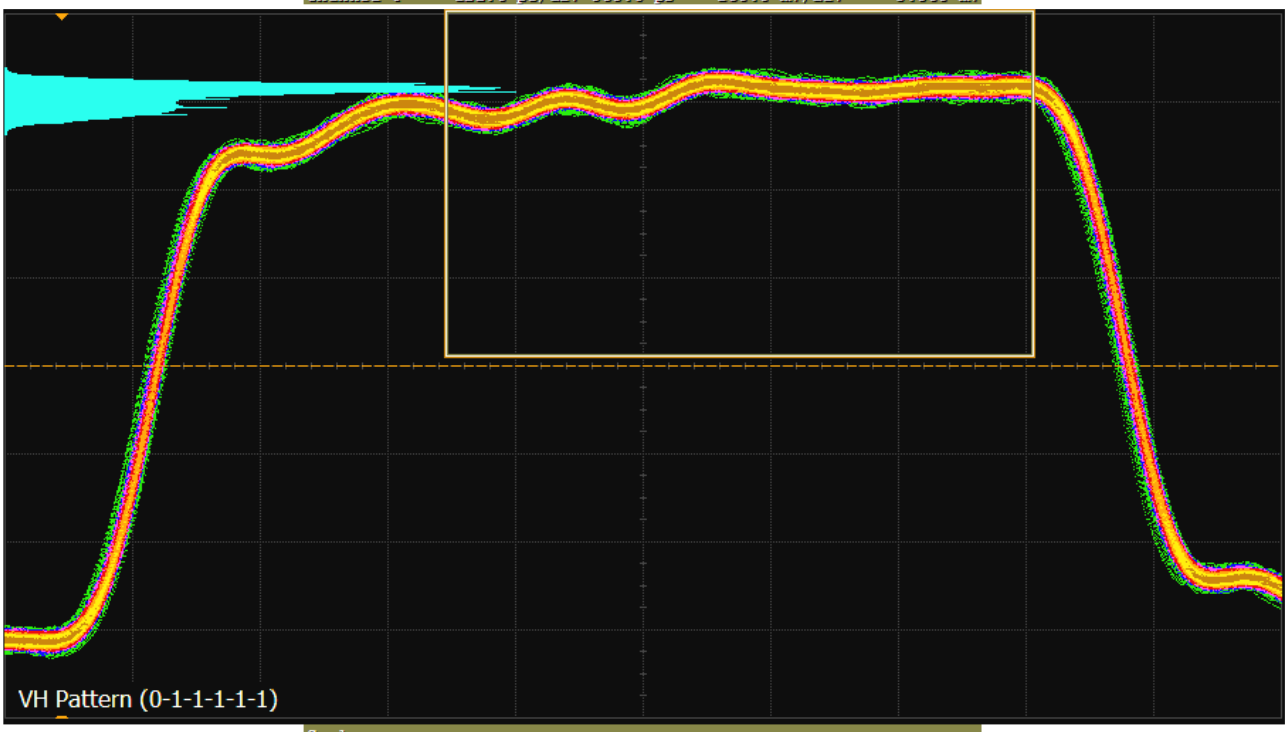

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 130.0 mV/div | -9.500 mV |

Trial 1: Level VL Image (Swing 2)




Scales

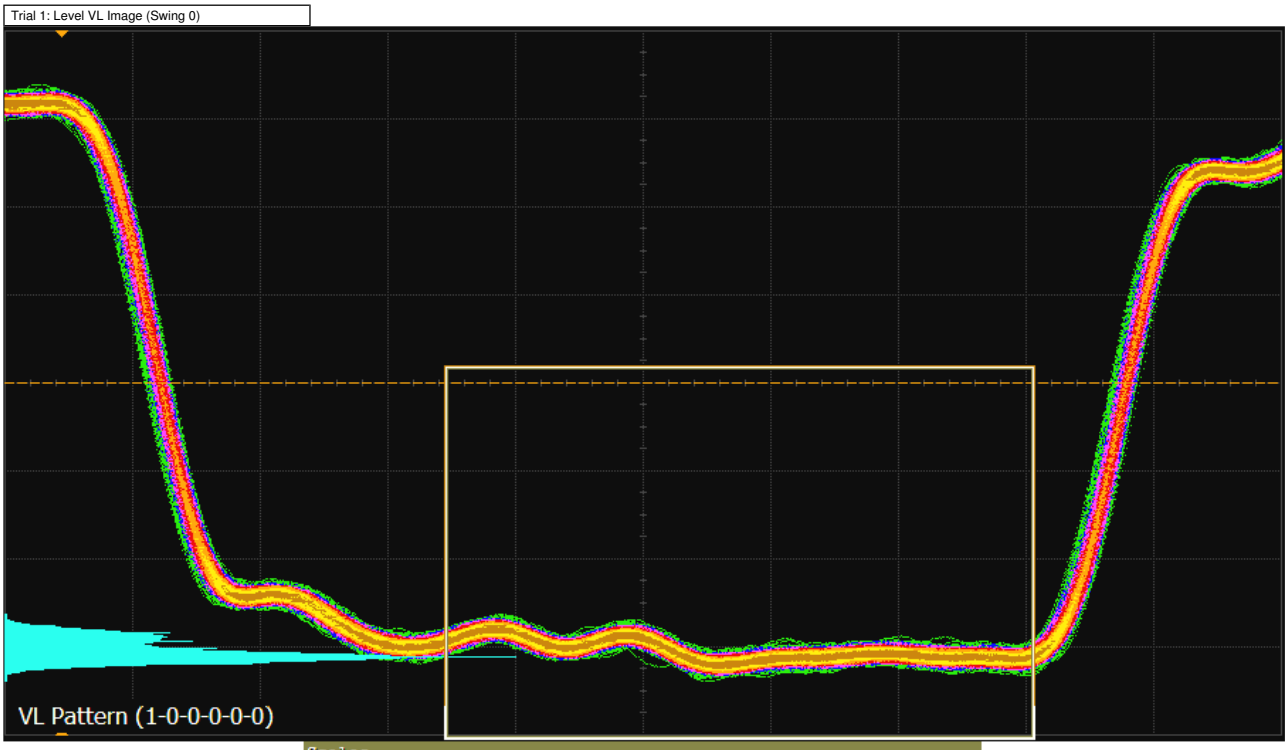
| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 130.0 mV/div | -9.500 mV |




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 67.80 mV/div | -9.800 mV |

Trial 1: Level VL Image (Swing 0)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 67.80 mV/div | -9.800 mV |

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

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

Test Summary: Pass

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

**Pass Limits:** [1.6000 dB to 3.5000 dB] **Lane 3 Non-PreEmphasis Level Test (Swing 2/Swing 1)** 2.7417 dB

### Result Details

**Level VH Image (Swing 2)** (See image) **Level VL Image (Swing 2)** (See image) **Level VH Image (Swing 1)** (See image) **Level VL Image (Swing 1)** (See image) **Number of UI** 1000

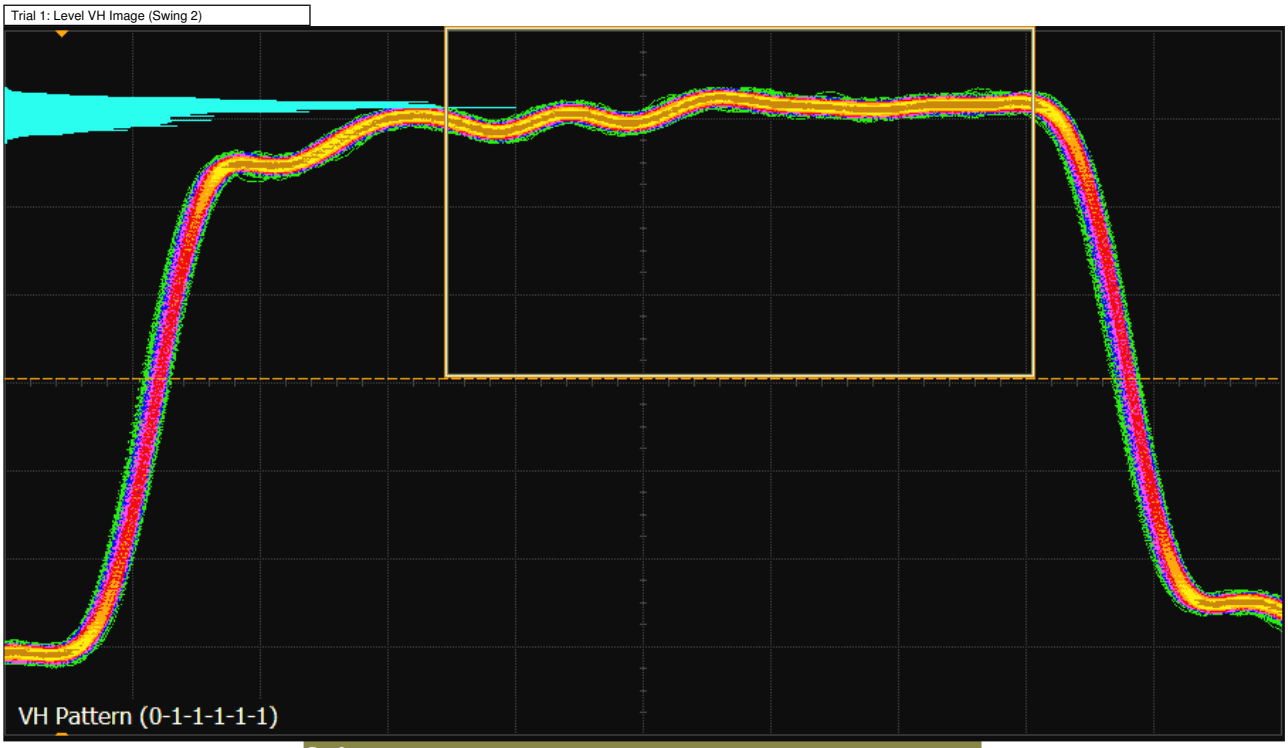
**VH Trigger Pattern** 011111 **VL Trigger Pattern** 100000 **VTop (Swing 2)** 386.243 mV **VBase (Swing 2)** -408.020 mV **VSwing (Swing 2)** 794.263 mV **VTop (Swing 1)** 279.623 mV

**VBase(Swing 1)** -299.647 mV **VSwing(Swing 1)** 579.270 mV **Test Mode** Compliance **Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source

**Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 2 **PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

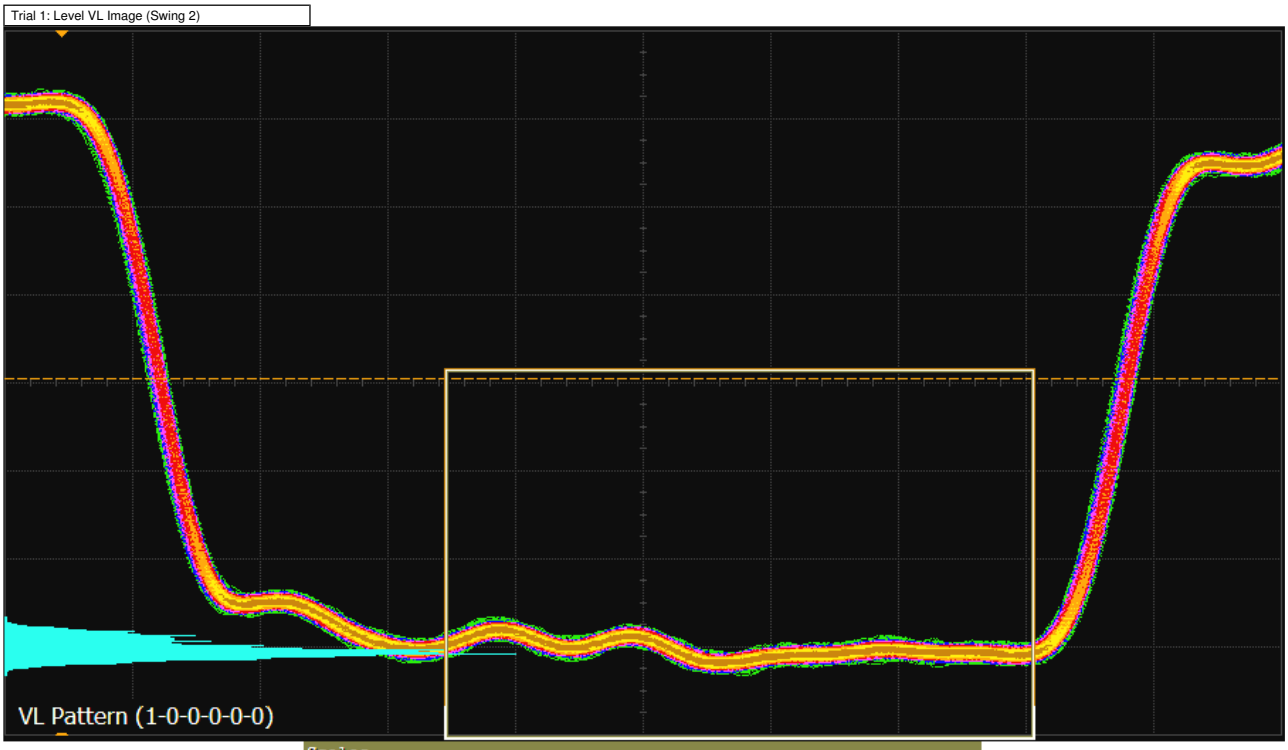
**Trial 1**

Trial 1: Level VH Image (Swing 2)



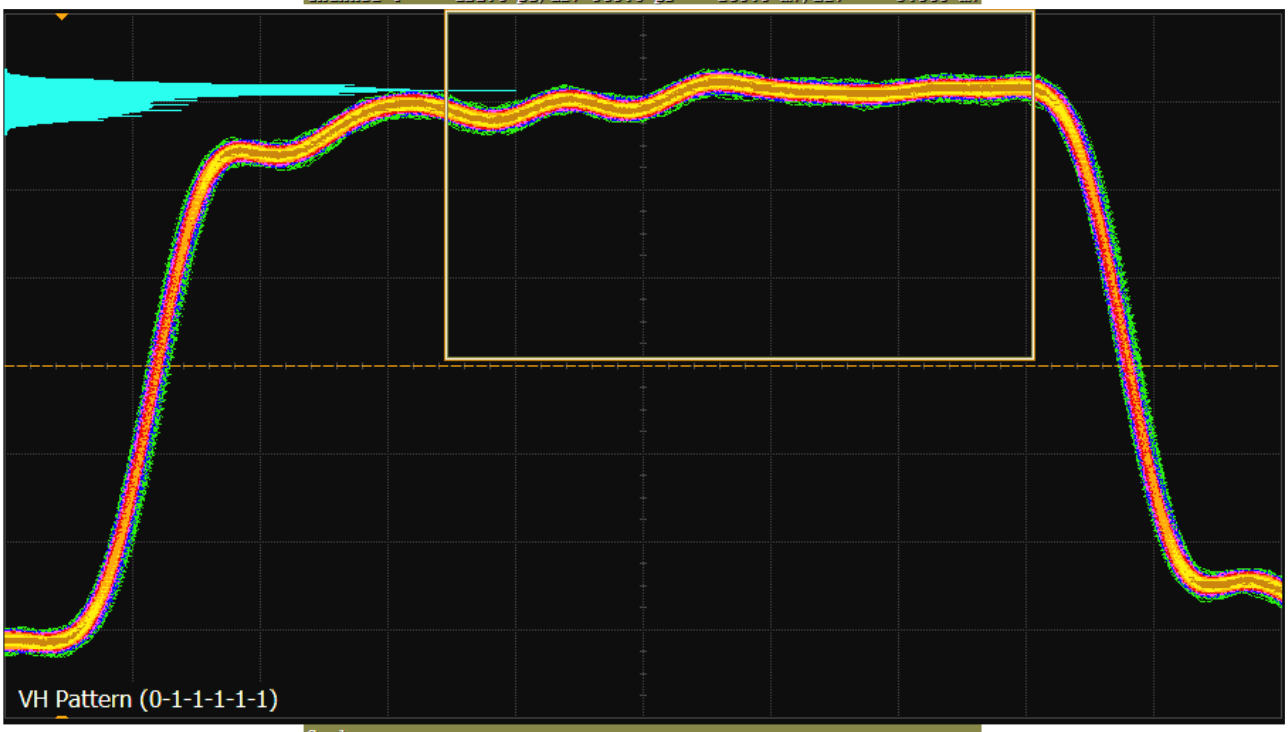

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 130.0 mV/div | -9.500 mV |

Trial 1: Level VL Image (Swing 2)




Scales

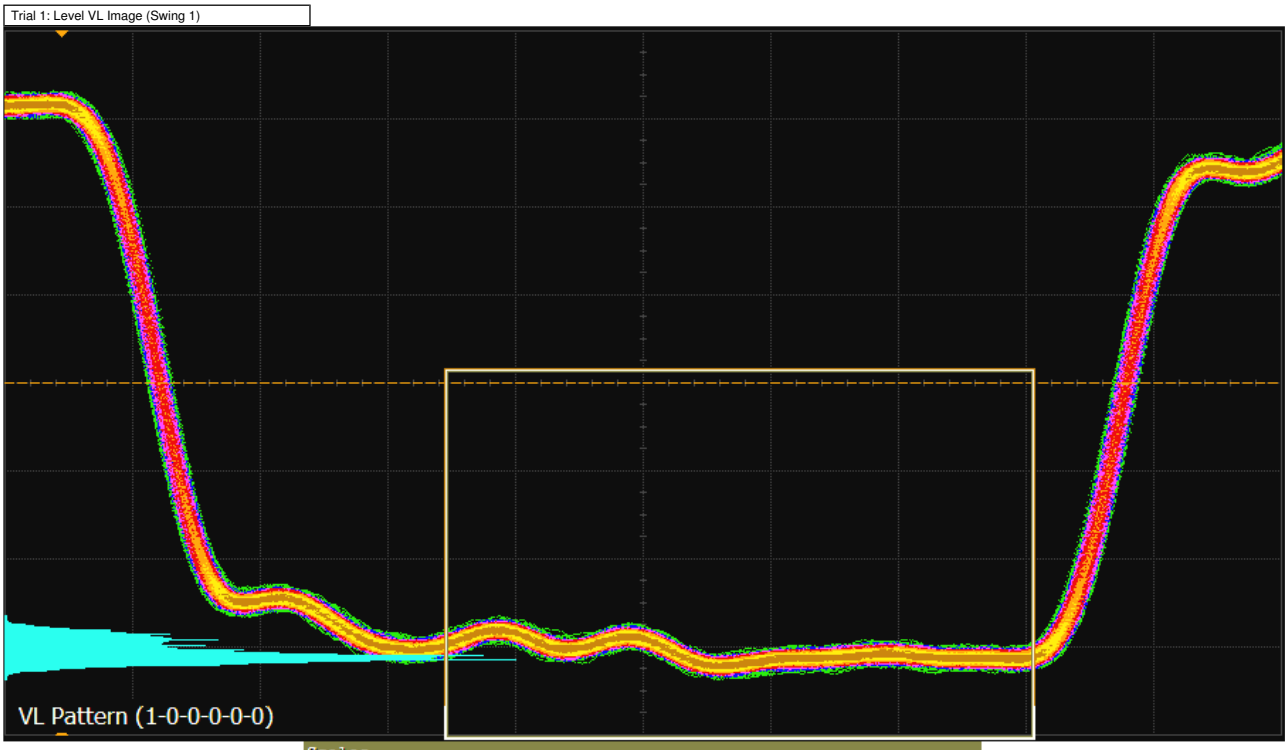
| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 130.0 mV/div | -9.500 mV |




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 95.50 mV/div | -10.30 mV |

Trial 1: Level VL Image (Swing 1)




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 95.50 mV/div | -10.30 mV |

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## Lane 0 - PLTPAT - Pre-Emphasis Level Test (Pre-emphasis 0)

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

Test Summary: Pass

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

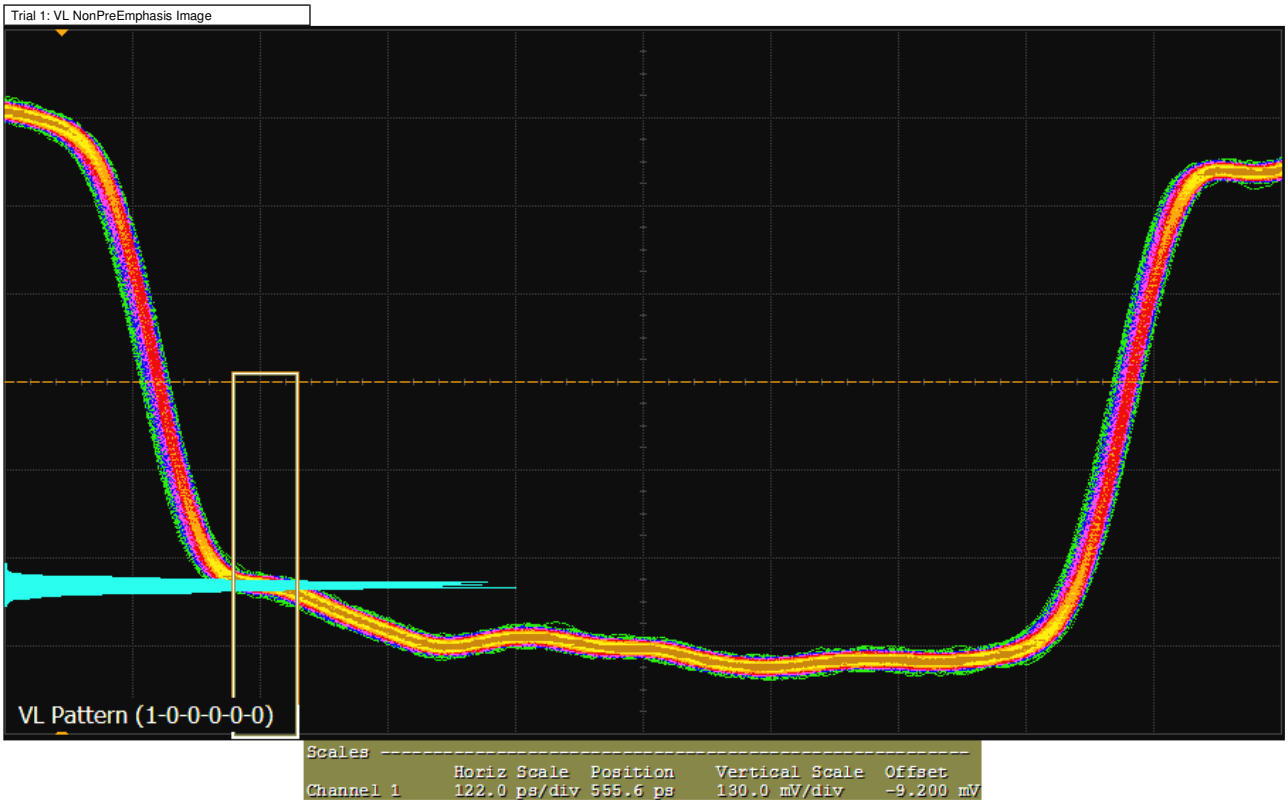
**Pass Limits:** <= 250 mdB | **PreEmphasis (Pre-emphasis 0) (Worst of 4 Trials)** -2.285 dB | **# Trials Run:** 4 | **Worst Trial:** Trial 1

**Overall Summary + details of 4 worst trials**

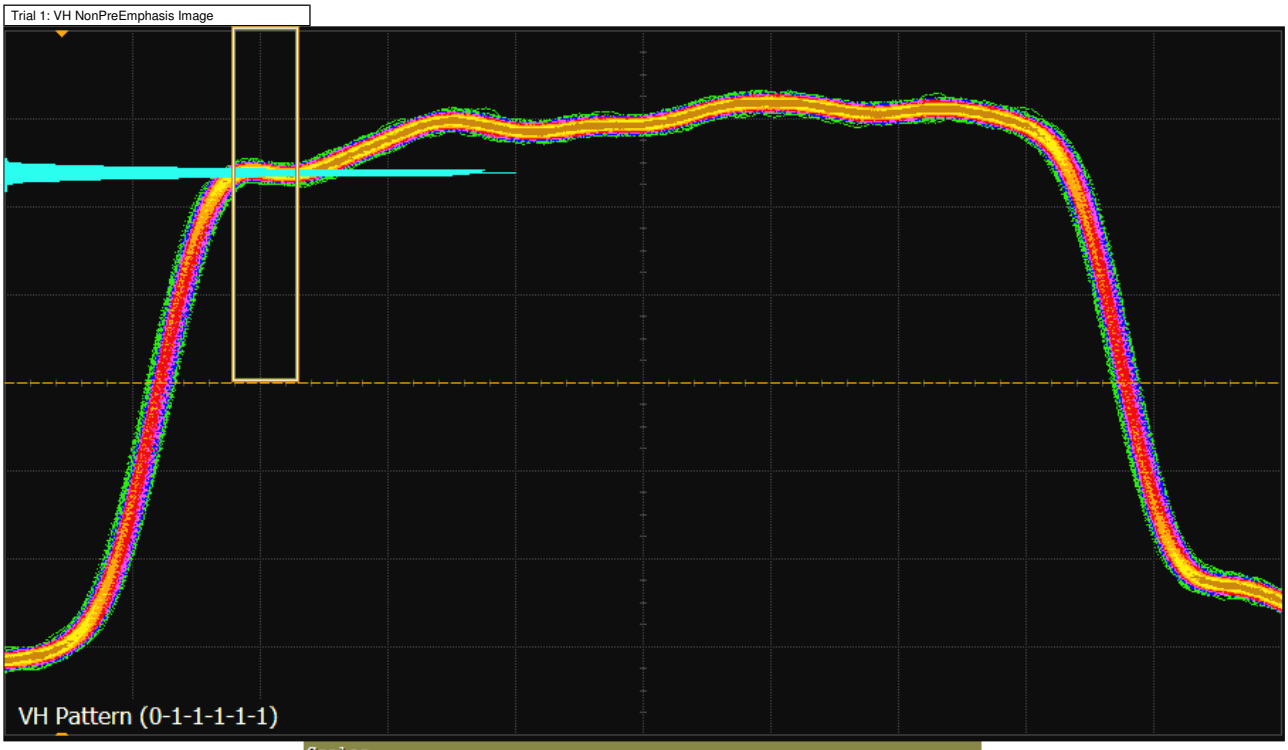
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VH NonPreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-2.439 dB* | *1.076 k%* | | | | | | | | | | | |
| | *StdDev* | *157.6 mdB* | *63.12 %* | | | | | | | | | | | |
| | *Range* | *344.3 mdB* | *138.0 %* | | | | | | | | | | | |
| | *Min* | *-2.630 dB* | *1.014 k%* | | | | | | | | | | | |
| | *Max* | *-2.285 dB* | *1.152 k%* | | | | | | | | | | | |
| | *Sum* | *-9.755 dB* | *4.302 k%* | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | -2.285 dB | 101E+01% | (See image) | (See image) | 1000 | 606.696 mV | 789.302 mV | -2.285 dB | 5.4 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | -2.503 dB | 110E+01% | (See image) | (See image) | 1000 | 433.772 mV | 578.674 mV | -2.503 dB | 5.4 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | -2.630 dB | 115E+01% | (See image) | (See image) | 1000 | 301.332 mV | 407.879 mV | -2.630 dB | 5.4 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | -2.337 dB | 103E+01% | (See image) | (See image) | 1000 | 756.095 mV | 989.497 mV | -2.337 dB | 5.4 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image



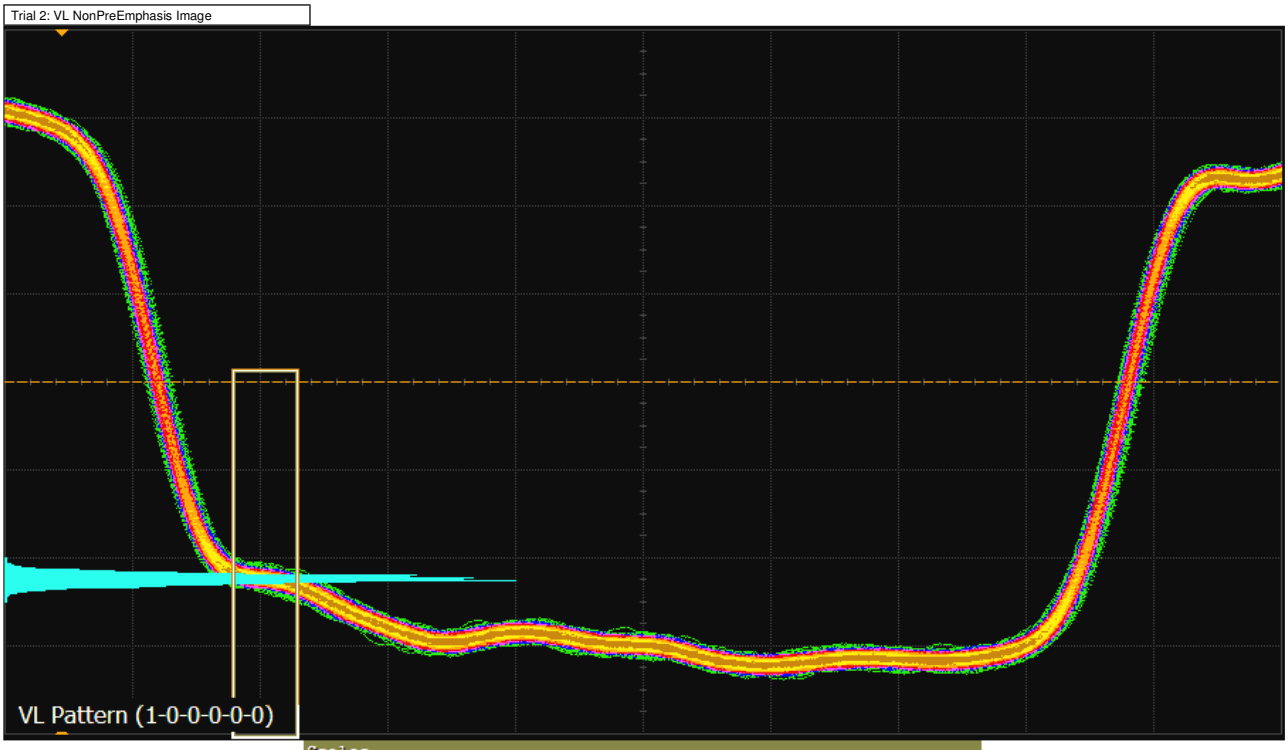
Trial 1: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 130.0 mV/div | -9.200 mV |

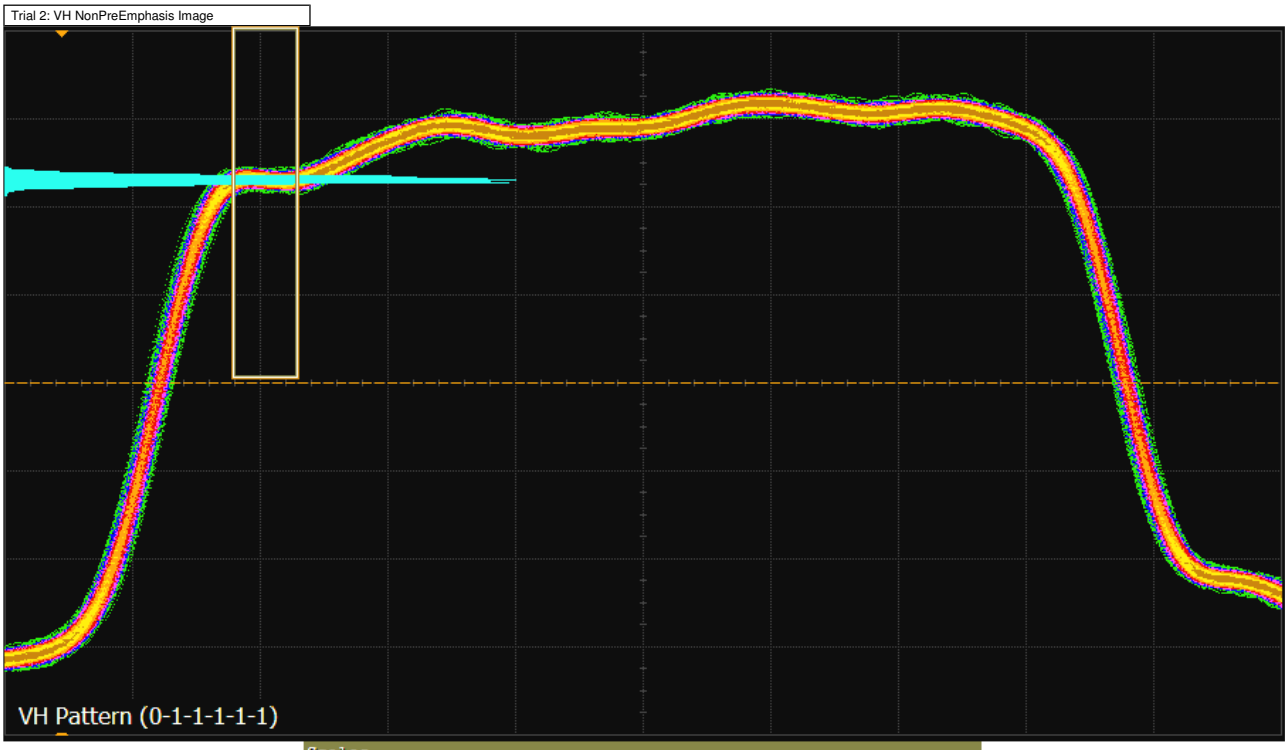
Trial 2

Trial 2: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 96.60 mV/div | -9.000 mV |

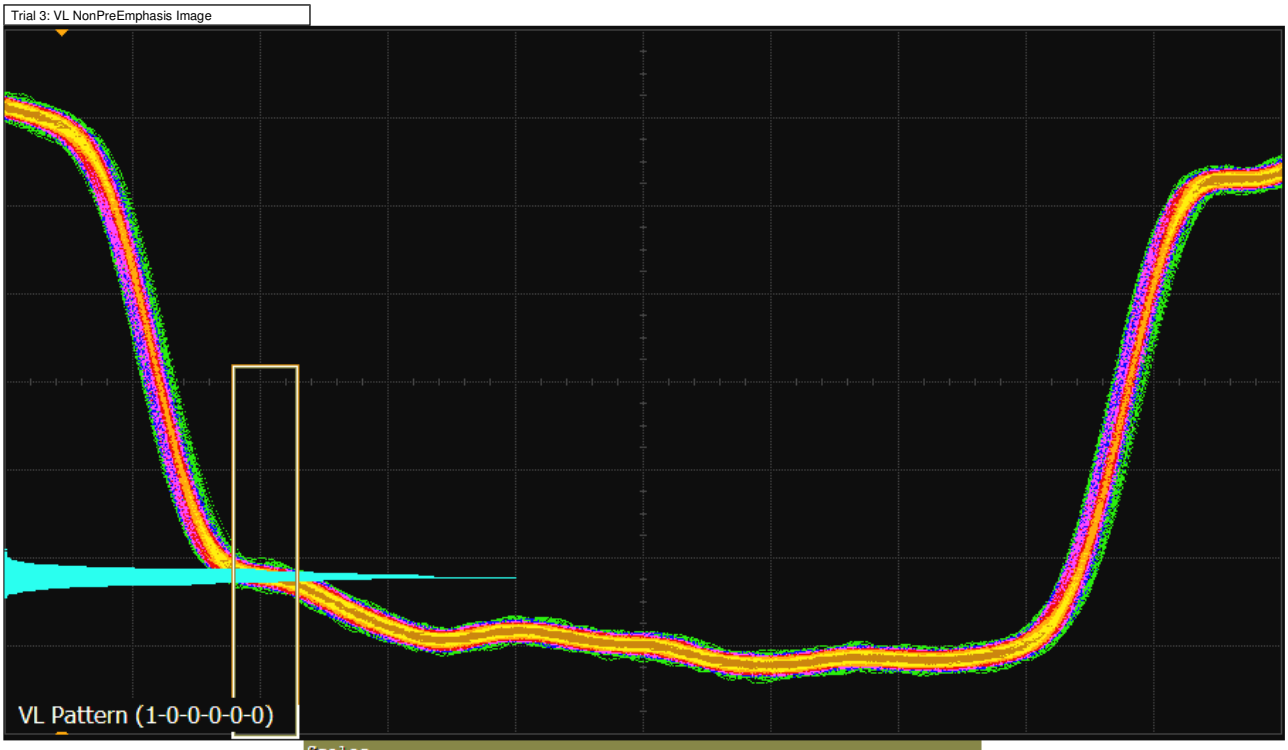
Trial 2: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 96.60 mV/div | -9.000 mV |

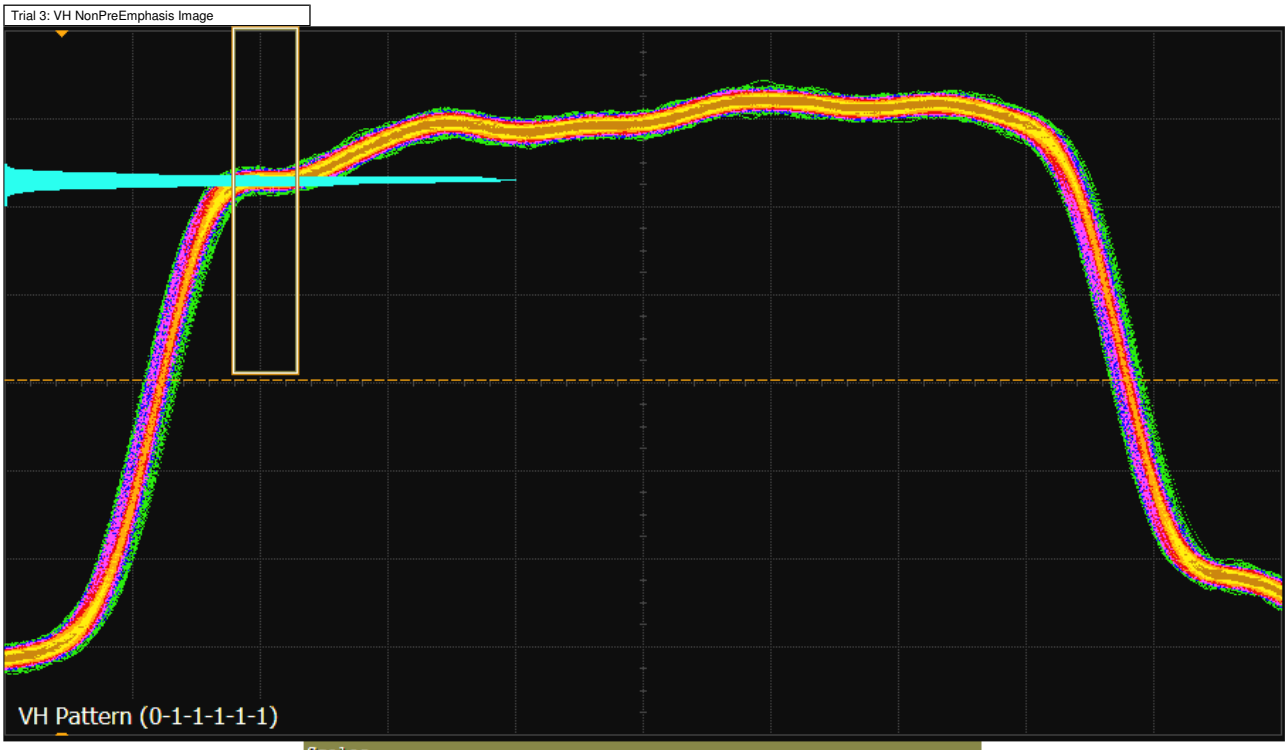
Trial 3

Trial 3: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 68.40 mV/div | -8.200 mV |

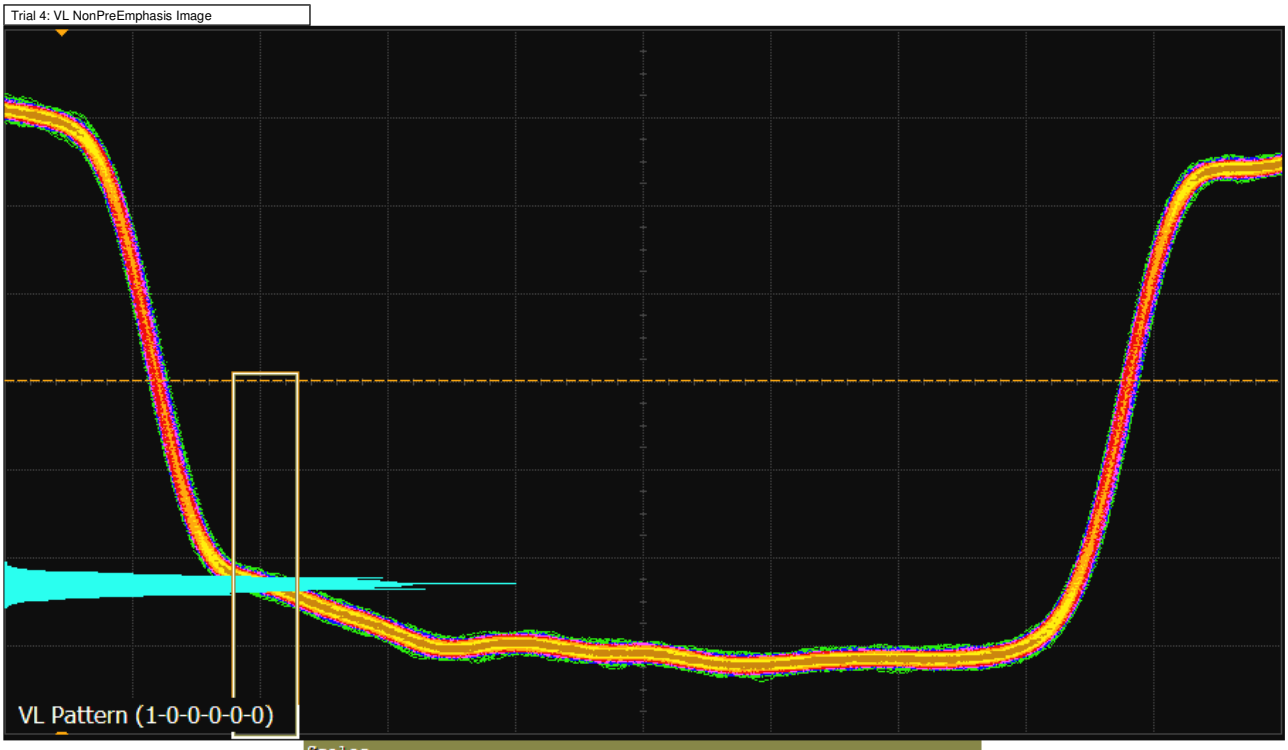
Trial 3: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 68.40 mV/div | -8.200 mV |

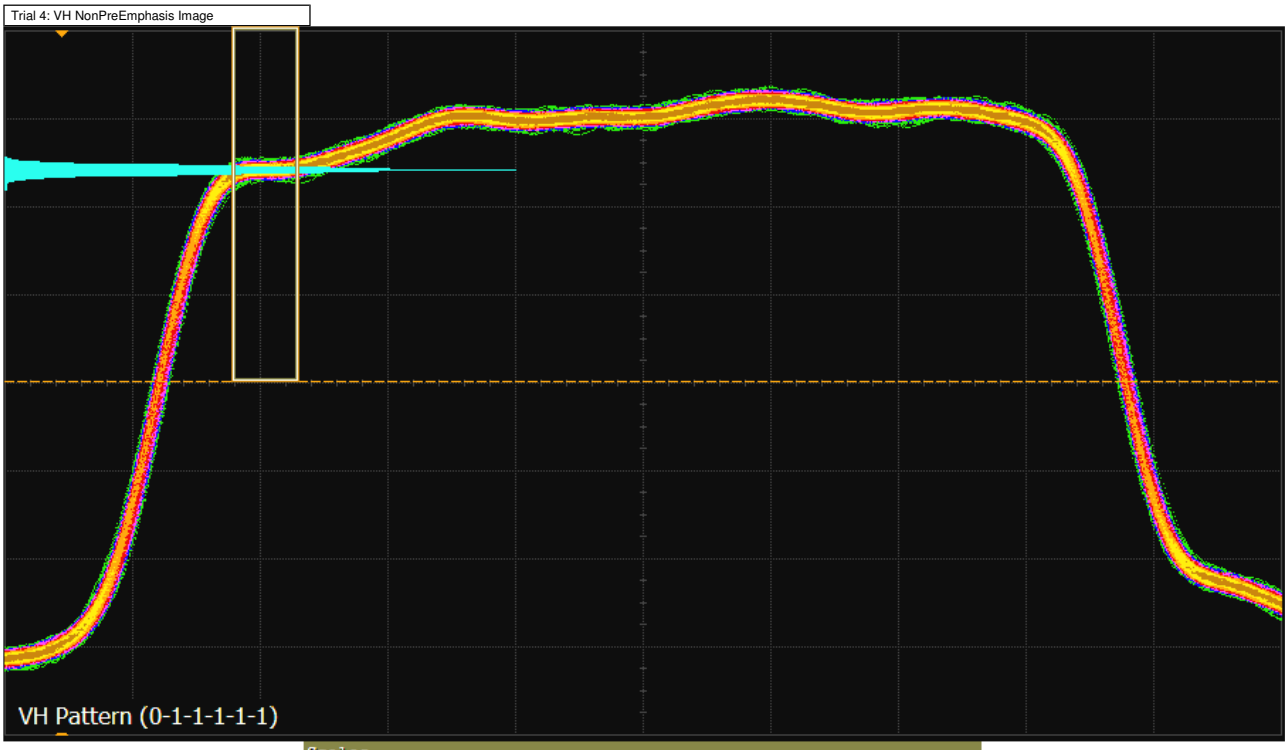
**Trial 4**

Trial 4: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 161.0 mV/div | -8.500 mV |

Trial 4: VH NonPreEmphasis Image




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 161.0 mV/div | -8.500 mV |

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## Lane 1 - PLTPAT - Pre-Emphasis Level Test (Pre-emphasis 0)

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

Test Summary: Pass

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

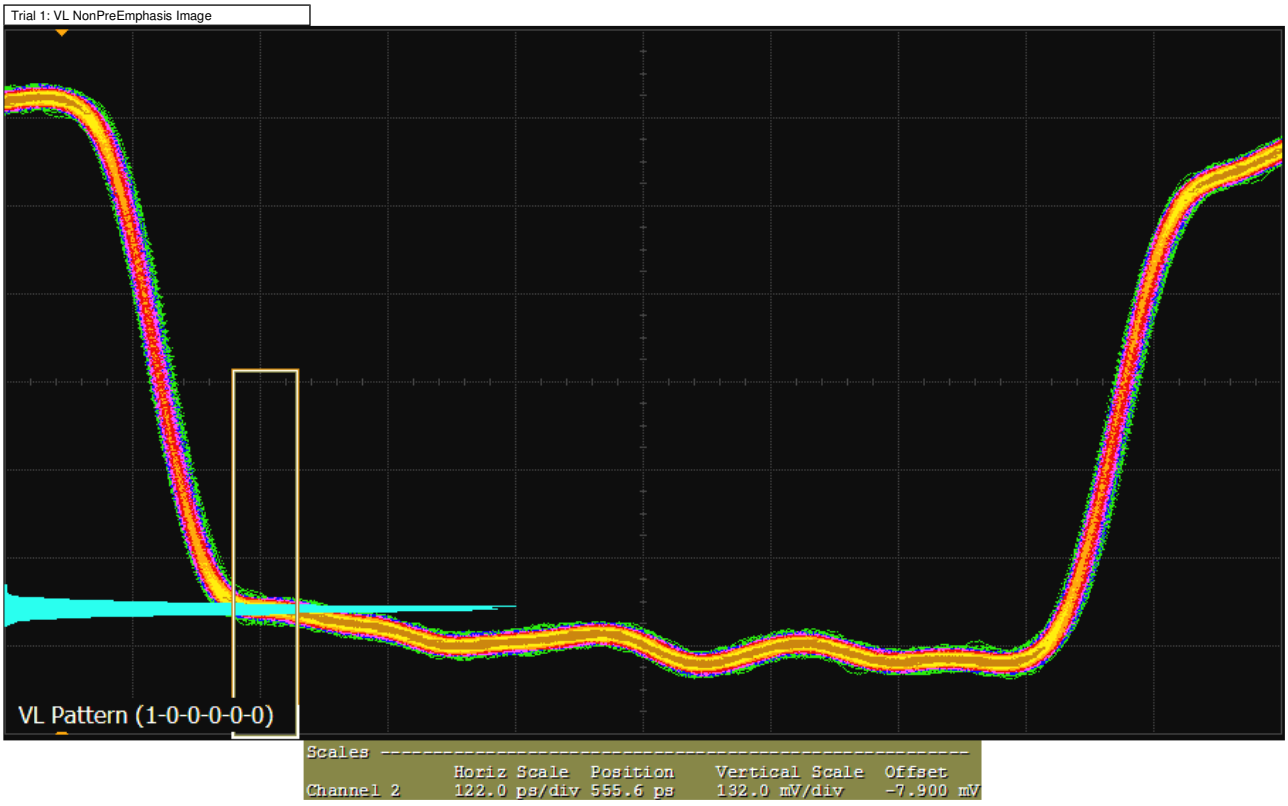
**Pass Limits:** <= 250 mdB | **PreEmphasis(Pre-emphasis 0) (Worst of 4 Trials)** -1.541 dB | **# Trials Run:** 4 | **Worst Trial:** Trial 4

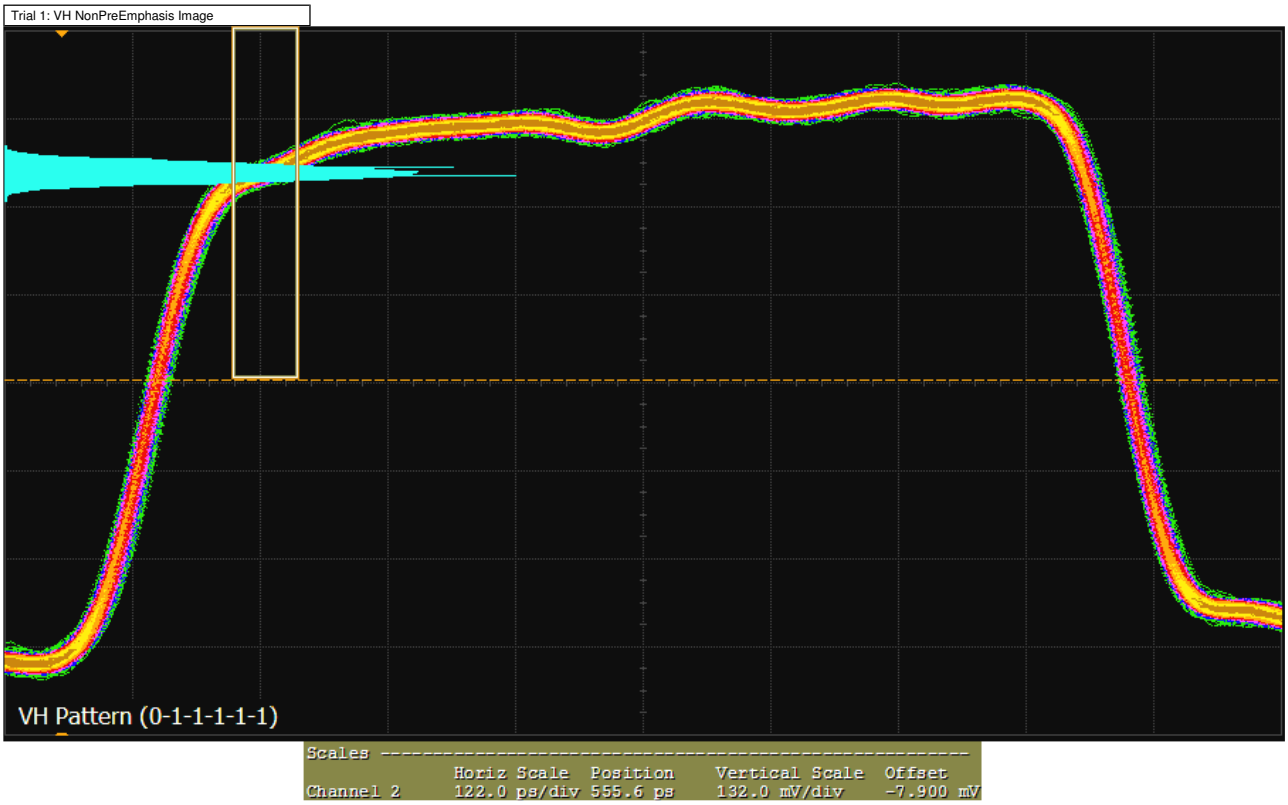
**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VH NonPreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-1.798 dB* | *819.2 %* | | | | | | | | | | | |
| | *StdDev* | *184.7 mdB* | *73.89 %* | | | | | | | | | | | |
| | *Range* | *439.8 mdB* | *176.0 %* | | | | | | | | | | | |
| | *Min* | *-1.981 dB* | *716.4 %* | | | | | | | | | | | |
| | *Max* | *-1.541 dB* | *892.4 %* | | | | | | | | | | | |
| | *Sum* | *-7.193 dB* | *3.277 k%* | | | | | | | | | | | |
| ✓ | Trial 1 | -1.828 dB | 831.2% | (See image) | (See image) | 1000 | 636.038 mV | 785.031 mV | -1.828 dB | 5.4 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | -1.842 dB | 836.8% | (See image) | (See image) | 1000 | 469.987 mV | 581.046 mV | -1.842 dB | 5.4 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | -1.981 dB | 892.4% | (See image) | (See image) | 1000 | 324.957 mV | 408.211 mV | -1.981 dB | 5.4 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 (Worst) | -1.541 dB | 716.4% | (See image) | (See image) | 1000 | 822.088 mV | 981.714 mV | -1.541 dB | 5.4 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

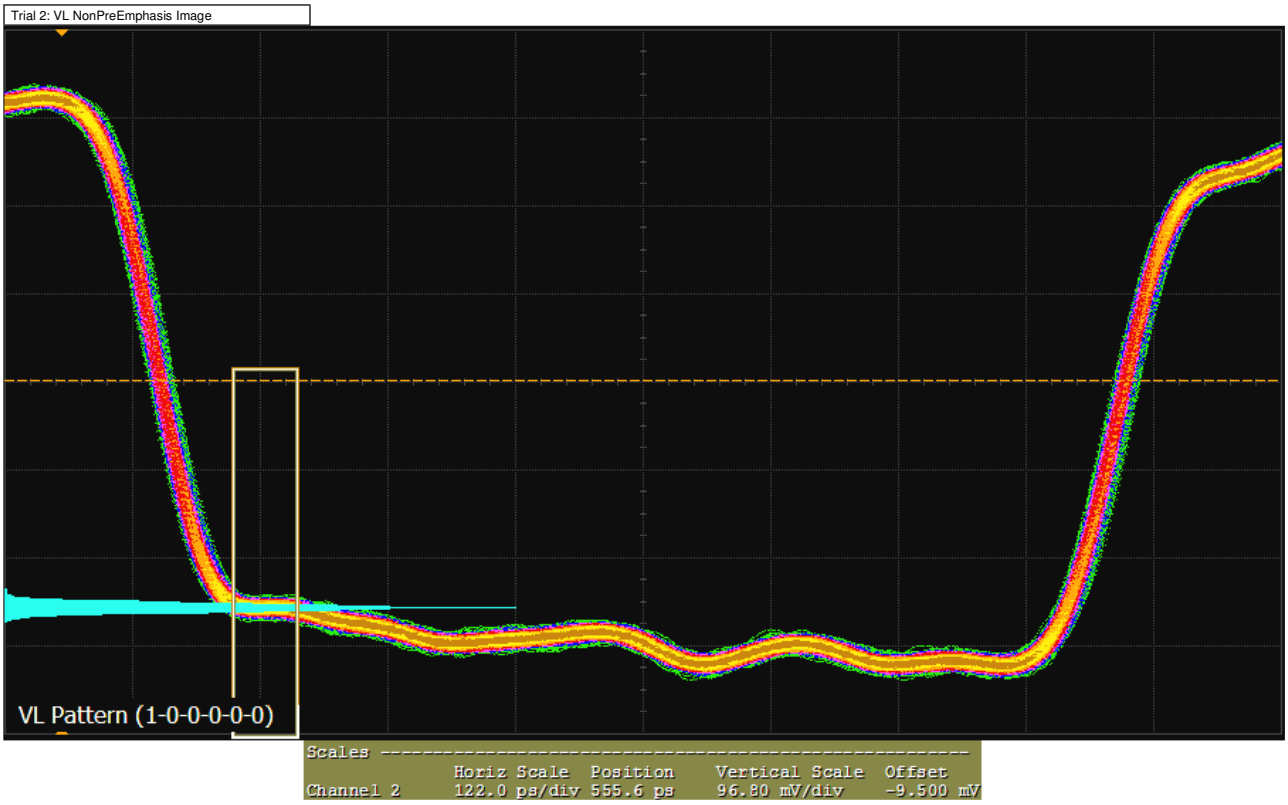
**Trial 1**

Trial 1: VL NonPreEmphasis Image

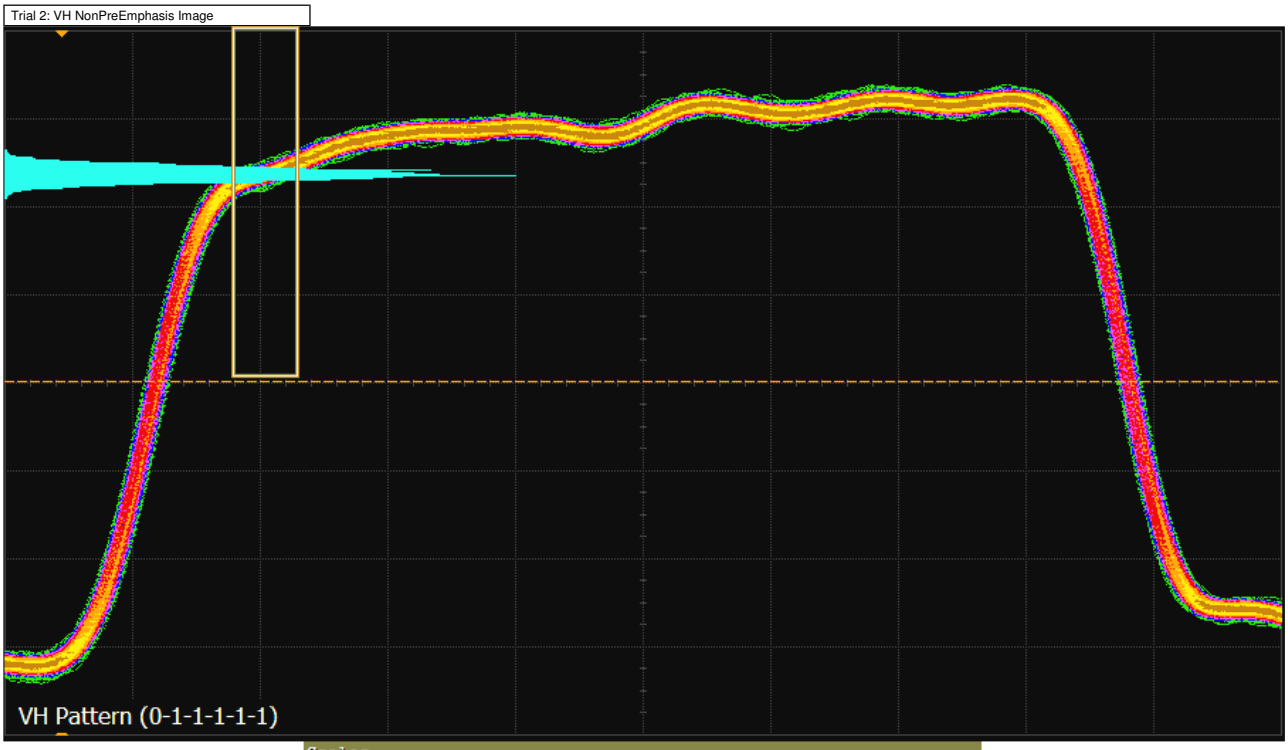



Trial 1: VH NonPreEmphasis Image
VH Pattern (0-1-1-1-1-1)
Scales
Horiz Scale Position Vertical Scale Offset
Channel 2 122.0 ps/div 555.6 ps 132.0 mV/div -7.900 mV

**Trial 2**


Trial 2: VL NonPreEmphasis Image
VL Pattern (1-0-0-0-0-0)
Scales
Horiz Scale Position Vertical Scale Offset
Channel 2 122.0 ps/div 555.6 ps 96.80 mV/div -9.500 mV

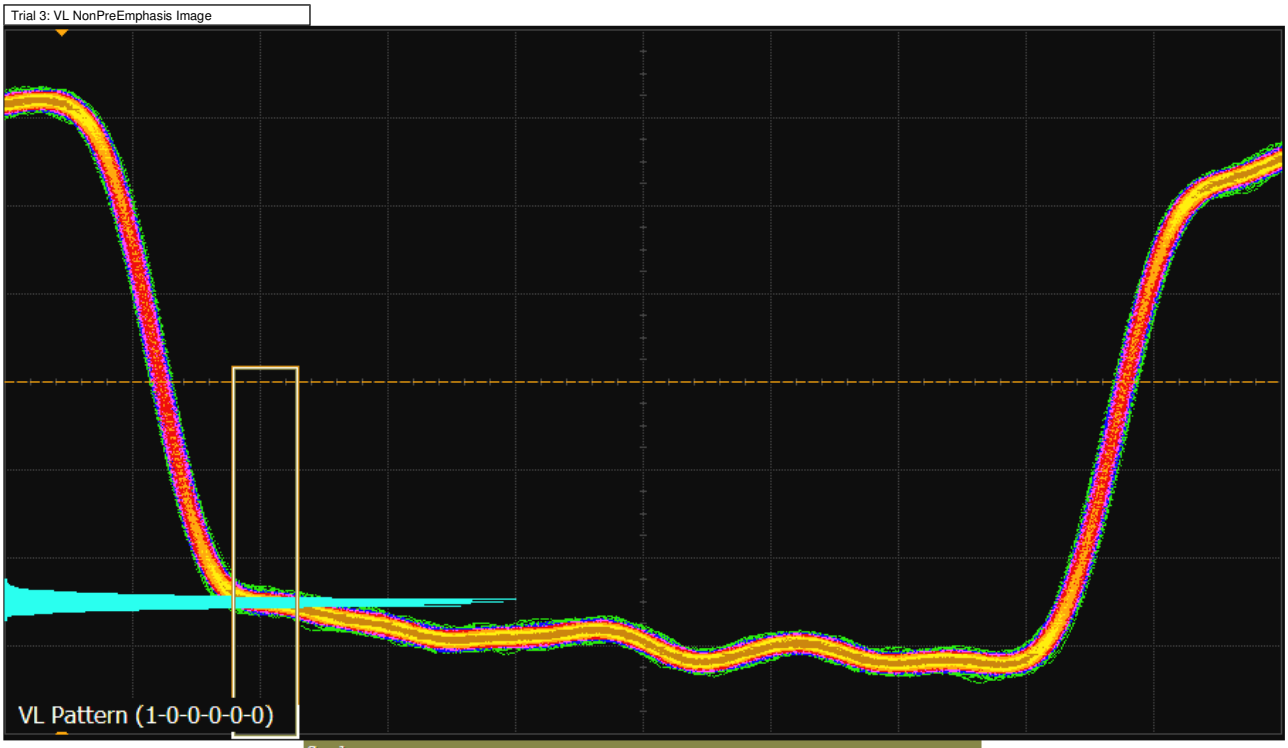
Trial 2: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 96.80 mV/div | -9.500 mV |

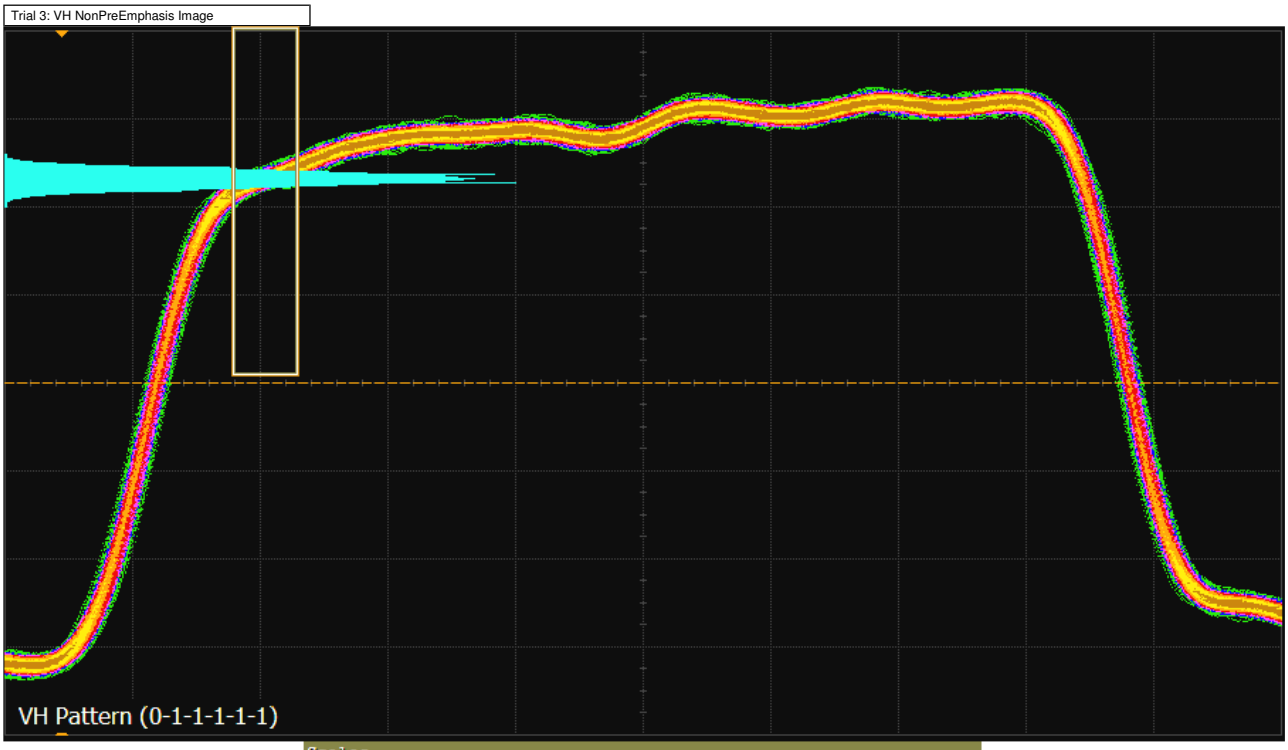
Trial 3

Trial 3: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 69.30 mV/div | -9.100 mV |

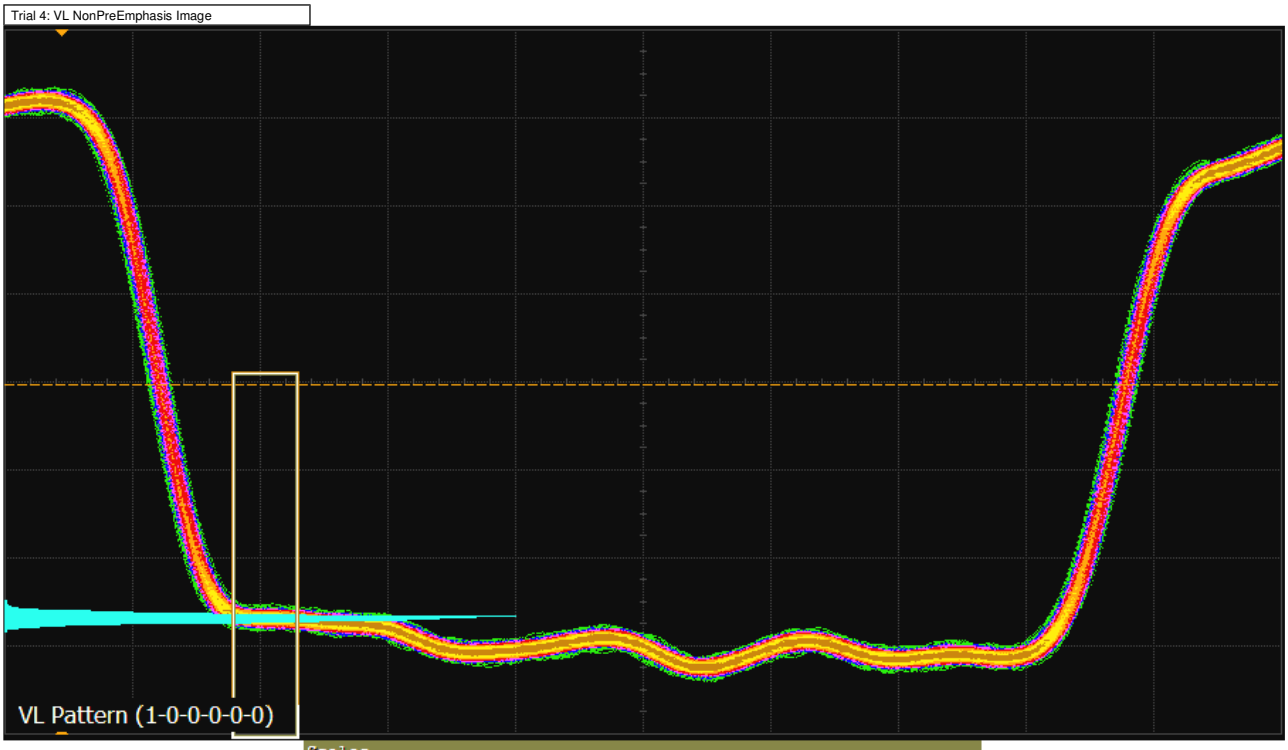
Trial 3: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 69.30 mV/div | -9.100 mV |

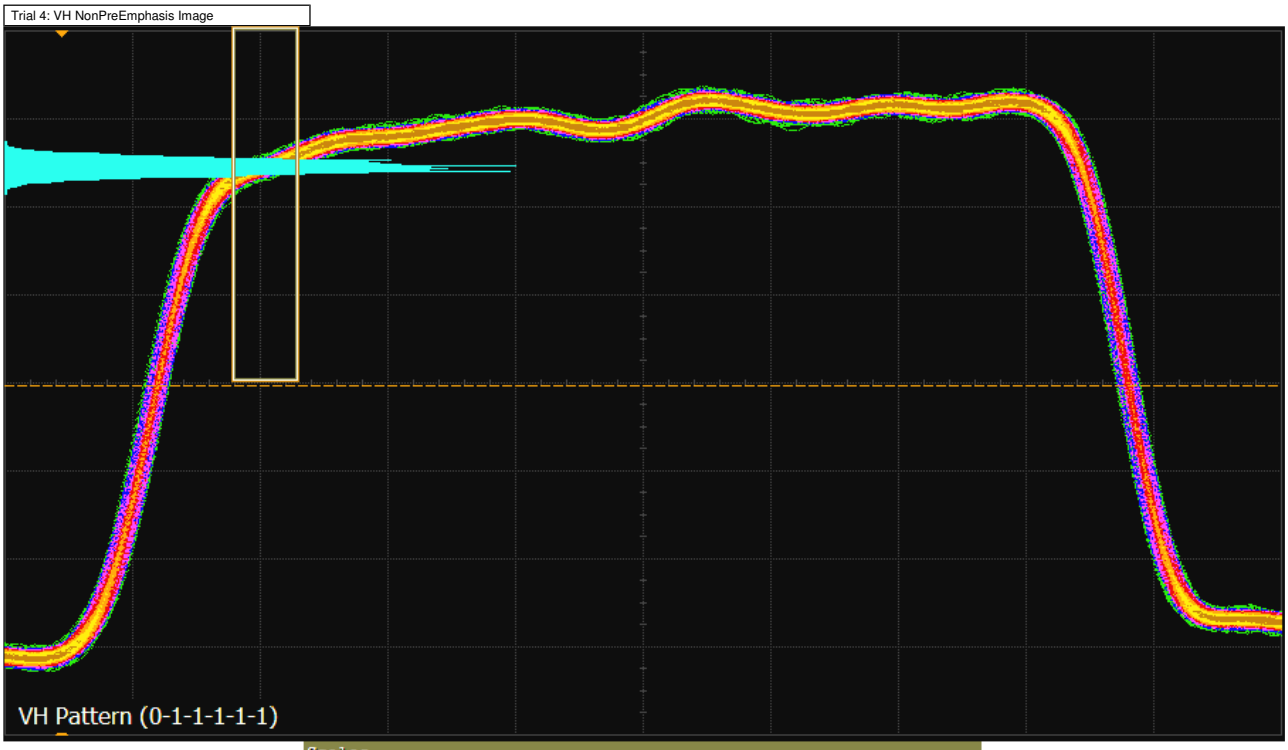
**Trial 4**

Trial 4: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 162.0 mV/div | -14.30 mV |

Trial 4: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 162.0 mV/div | -14.30 mV |

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## Lane 2 - PLTPAT - Pre-Emphasis Level Test (Pre-emphasis 0)

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

Test Summary: Pass

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

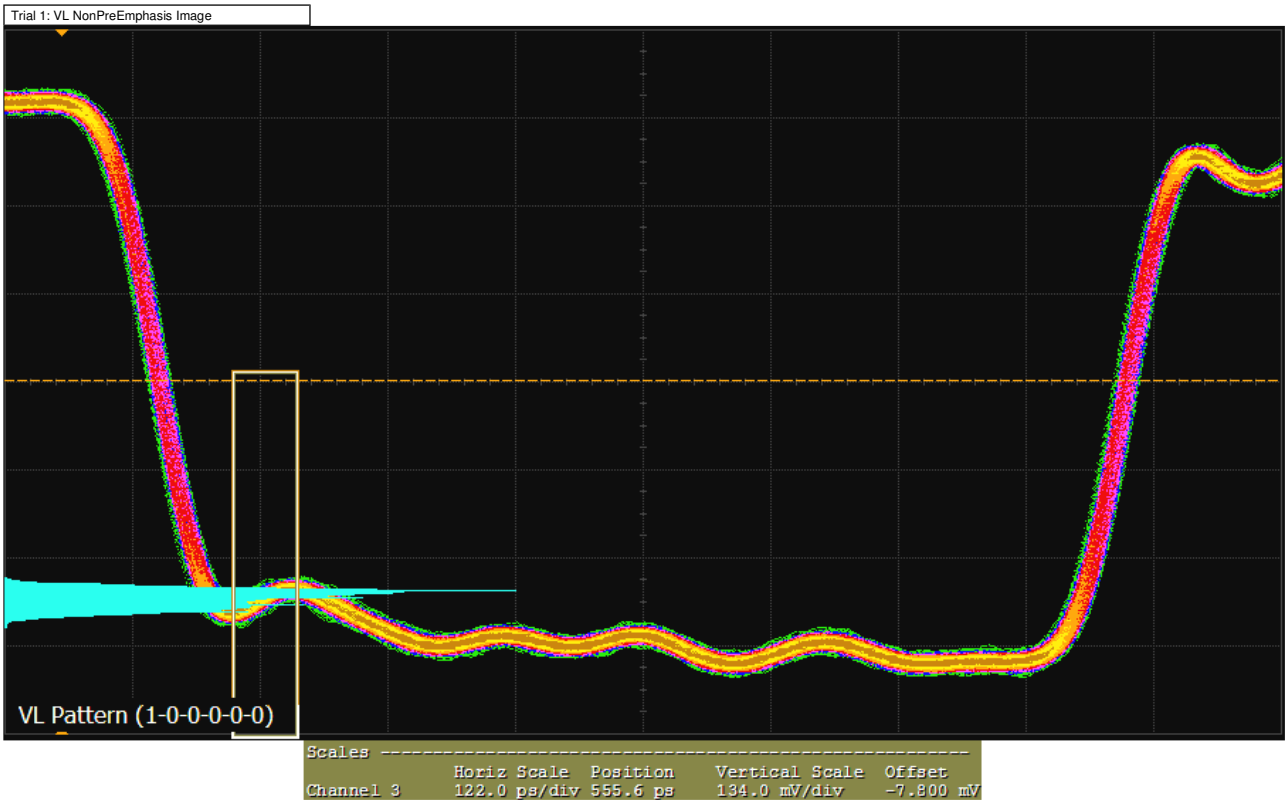
**Pass Limits:** <= 250 mdB | **PreEmphasis(Pre-emphasis 0) (Worst of 4 Trials)** -1.789 dB | **# Trials Run:** 4 | **Worst Trial:** Trial 4

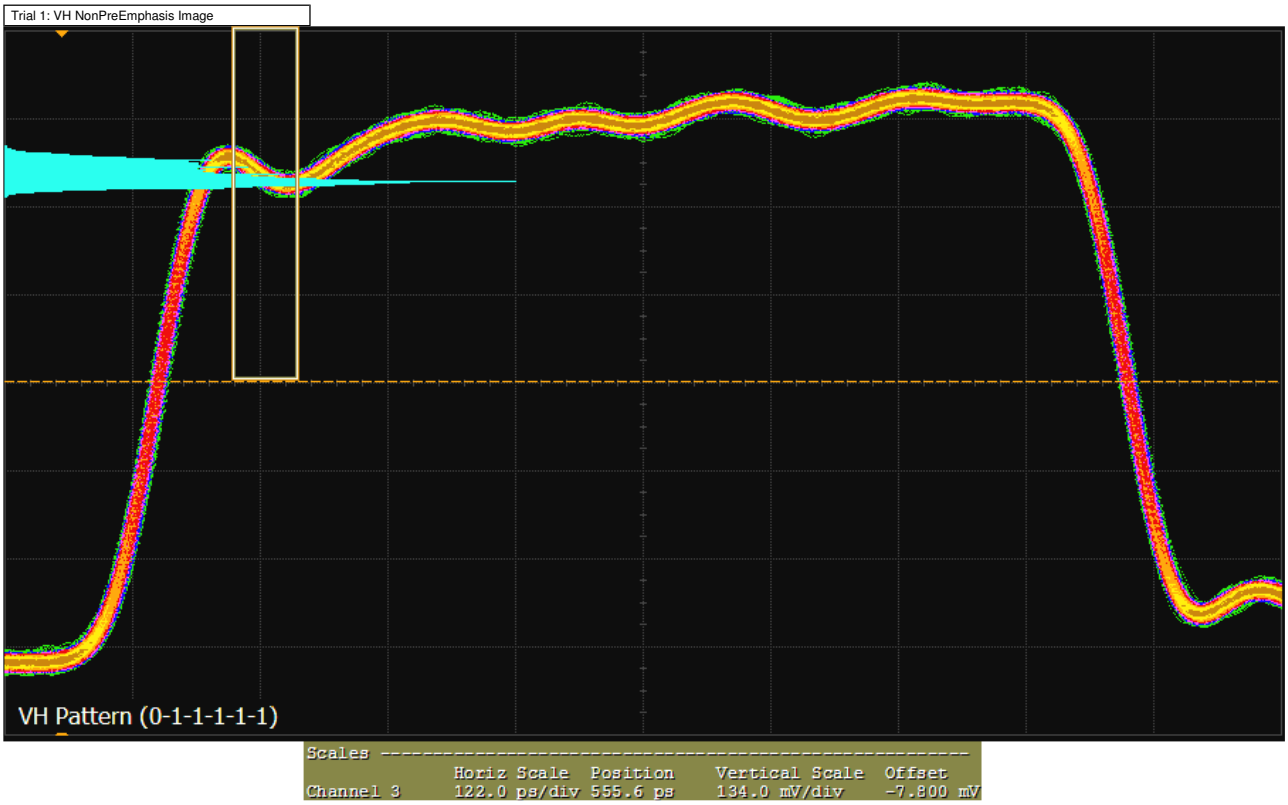
**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VH NonPreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-2.074 dB* | *929.8 %* | | | | | | | | | | | |
| | *StdDev* | *221.5 mdB* | *88.60 %* | | | | | | | | | | | |
| | *Range* | *528.9 mdB* | *211.6 %* | | | | | | | | | | | |
| | *Min* | *-2.318 dB* | *815.6 %* | | | | | | | | | | | |
| | *Max* | *-1.789 dB* | *1.027 k%* | | | | | | | | | | | |
| | *Sum* | *-8.297 dB* | *3.719 k%* | | | | | | | | | | | |
| ✓ | Trial 1 | -2.043 dB | 917.2% | (See image) | (See image) | 1000 | 632.436 mV | 800.097 mV | -2.043 dB | 5.4 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | -2.148 dB | 959.2% | (See image) | (See image) | 1000 | 464.156 mV | 594.375 mV | -2.148 dB | 5.4 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | -2.318 dB | 103E+01% | (See image) | (See image) | 1000 | 325.536 mV | 425.095 mV | -2.318 dB | 5.4 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 (Worst) | -1.789 dB | 815.6% | (See image) | (See image) | 1000 | 808.729 mV | 993.677 mV | -1.789 dB | 5.4 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

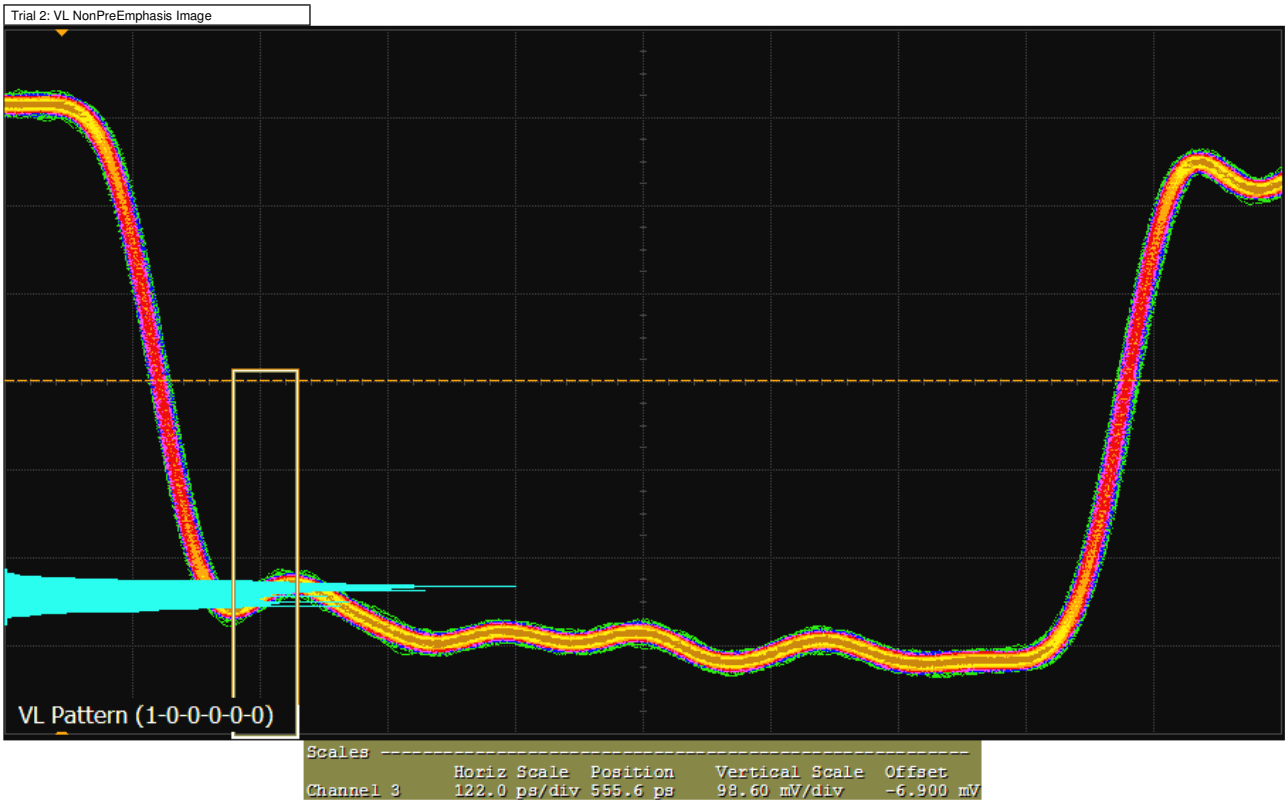
**Trial 1**

Trial 1: VL NonPreEmphasis Image

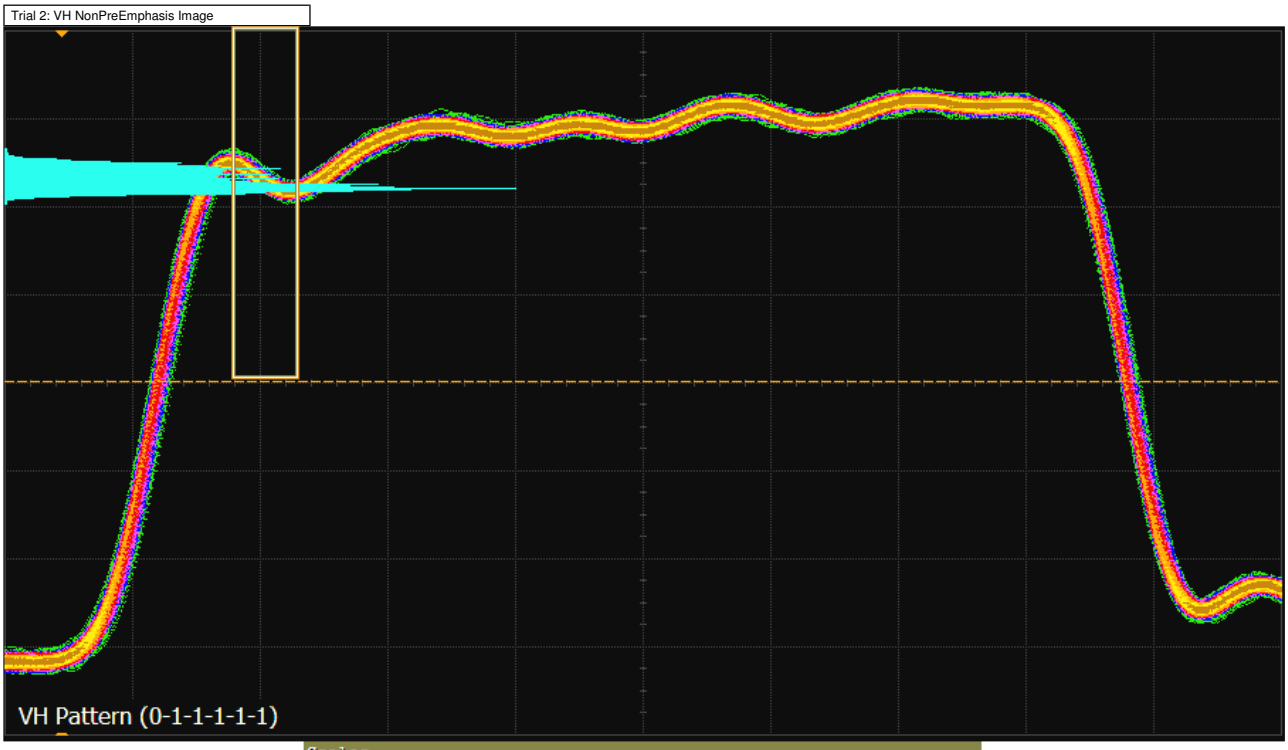



Trial 1: VH NonPreEmphasis Image
VH Pattern (0-1-1-1-1-1)
Scales
Horiz Scale Position Vertical Scale Offset
Channel 3 122.0 ps/div 555.6 ps 134.0 mV/div -7.800 mV

**Trial 2**


Trial 2: VL NonPreEmphasis Image
VL Pattern (1-0-0-0-0-0)
Scales
Horiz Scale Position Vertical Scale Offset
Channel 3 122.0 ps/div 555.6 ps 98.60 mV/div -6.900 mV

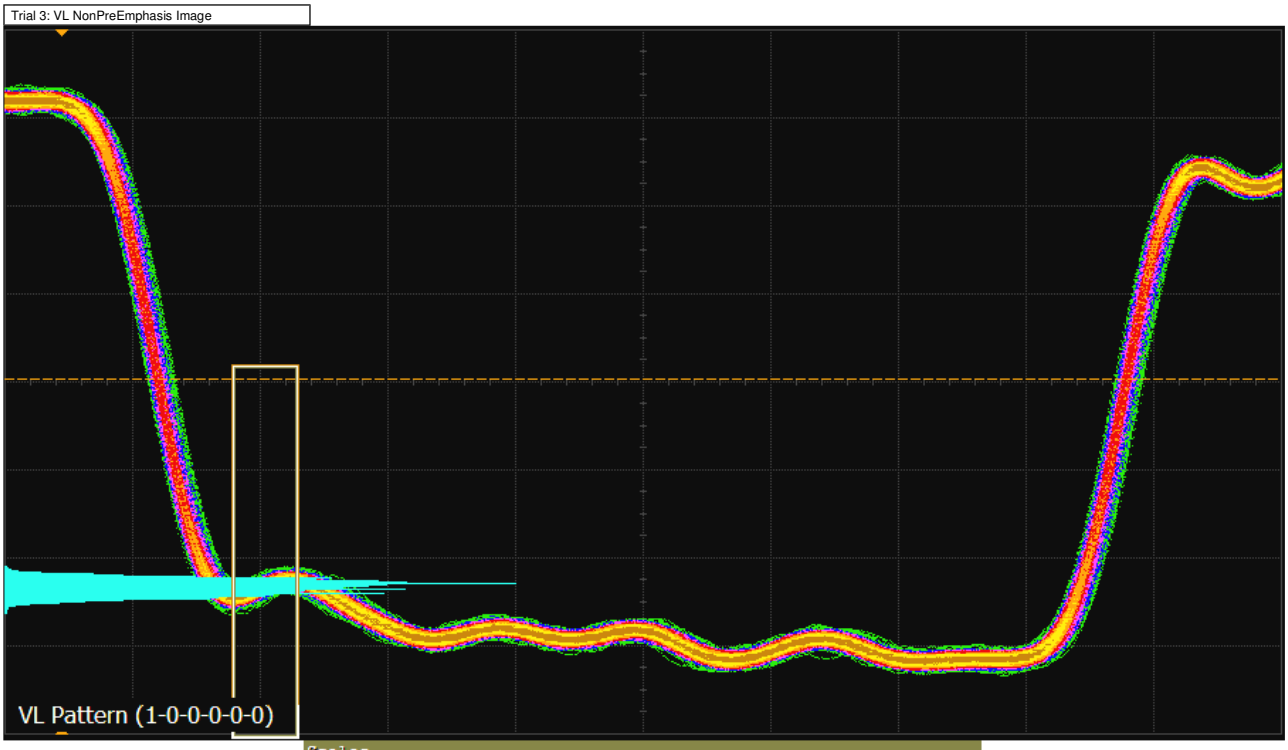
Trial 2: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 98.60 mV/div | -6.900 mV |

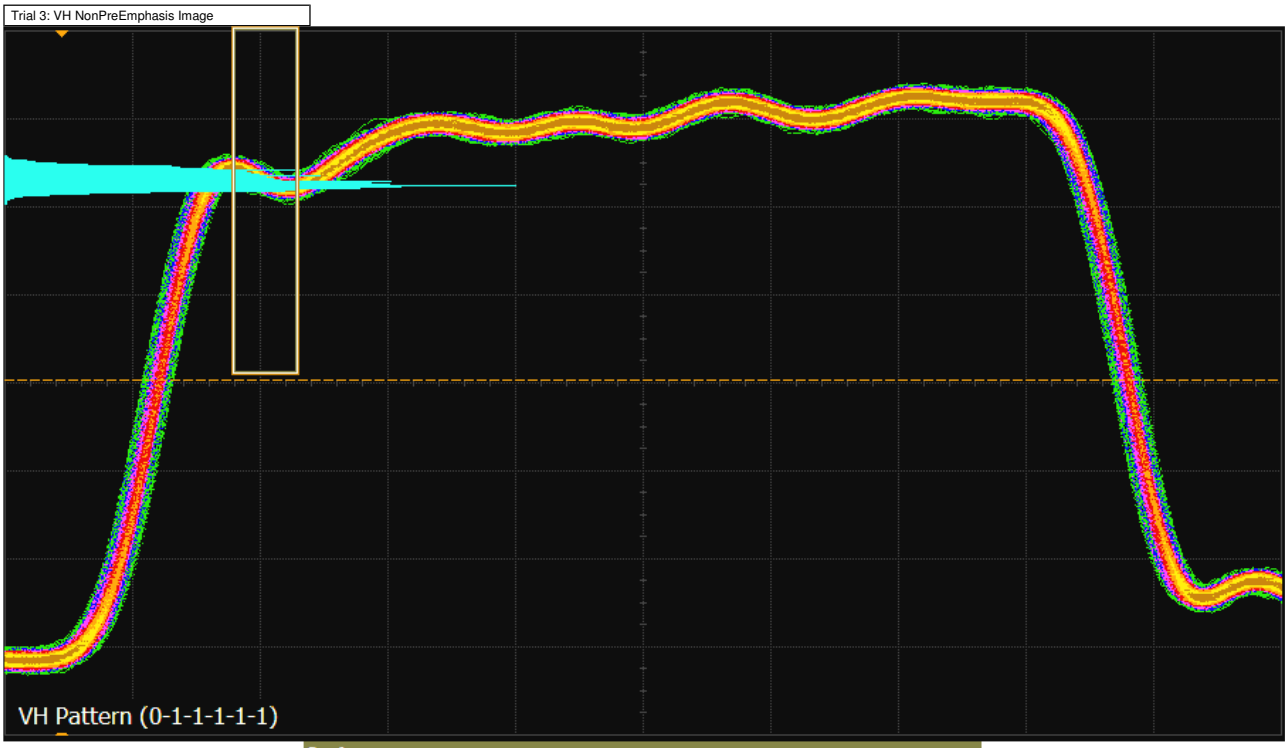
Trial 3

Trial 3: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 70.40 mV/div | -7.800 mV |

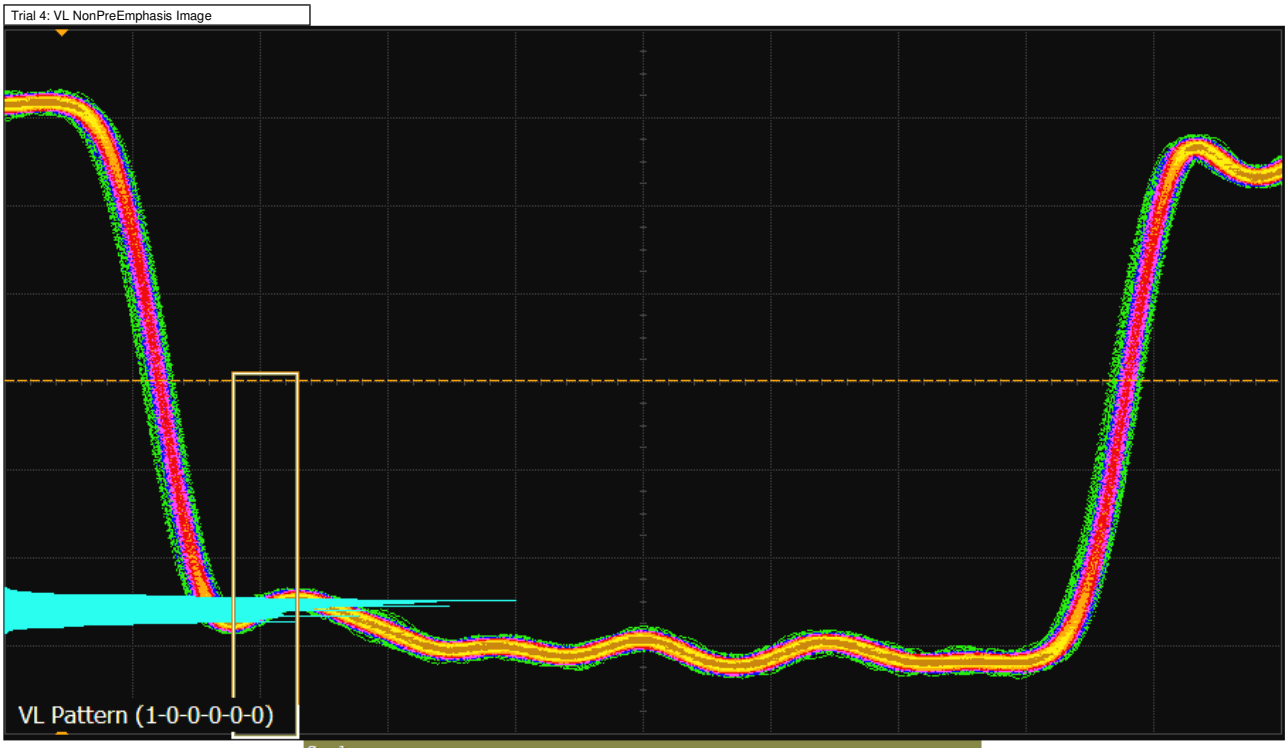
Trial 3: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 70.40 mV/div | -7.800 mV |

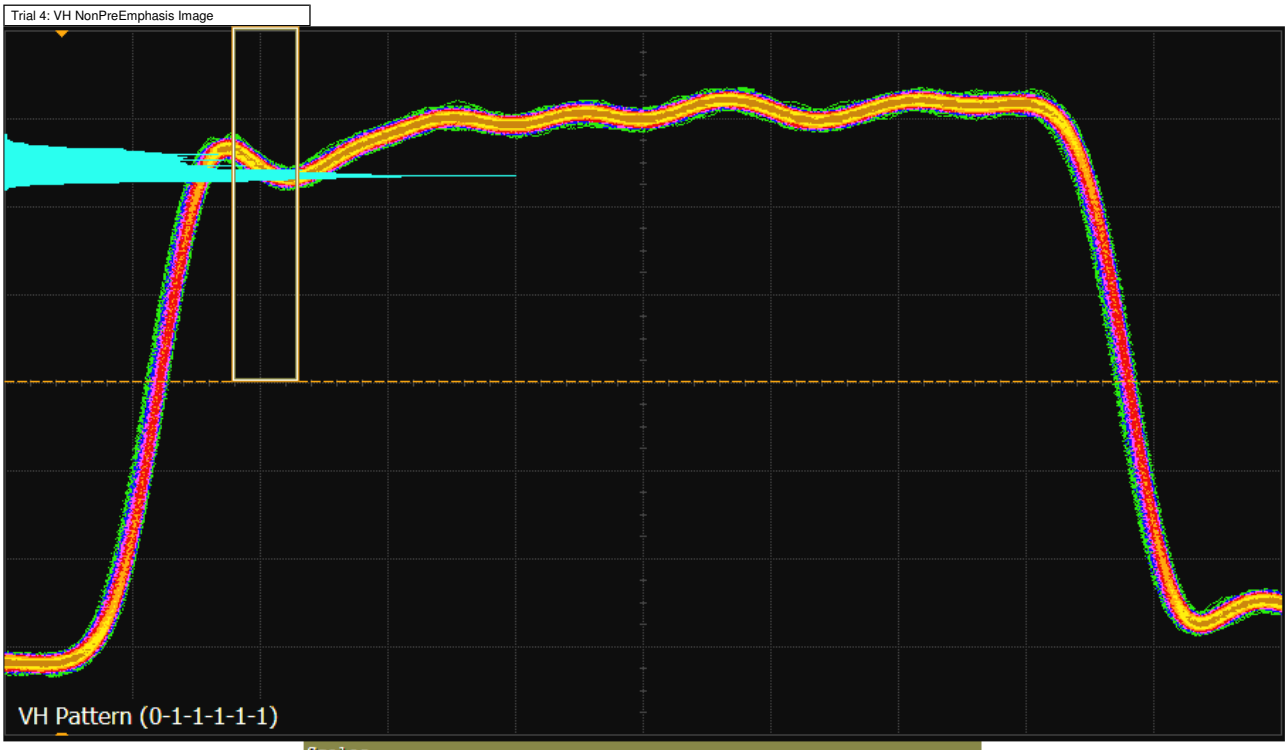
**Trial 4**

Trial 4: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 162.0 mV/div | -8.000 mV |

Trial 4: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 162.0 mV/div | -8.000 mV |

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## Lane 3 - PLTPAT - Pre-Emphasis Level Test (Pre-emphasis 0)

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

Test Summary: Pass

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

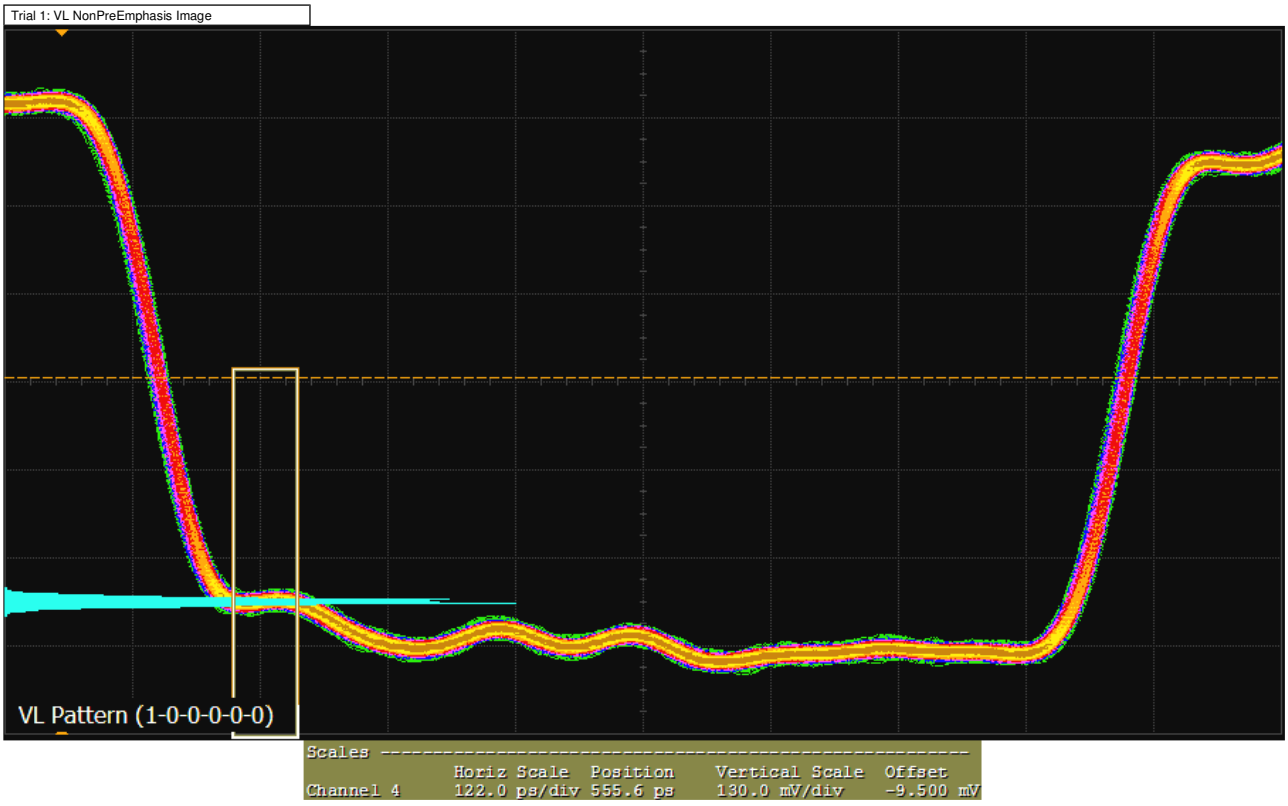
**Pass Limits:** <= 250 mdB | **PreEmphasis(Pre-emphasis 0) (Worst of 4 Trials)** -1.785 dB | **# Trials Run:** 4 | **Worst Trial:** Trial 1

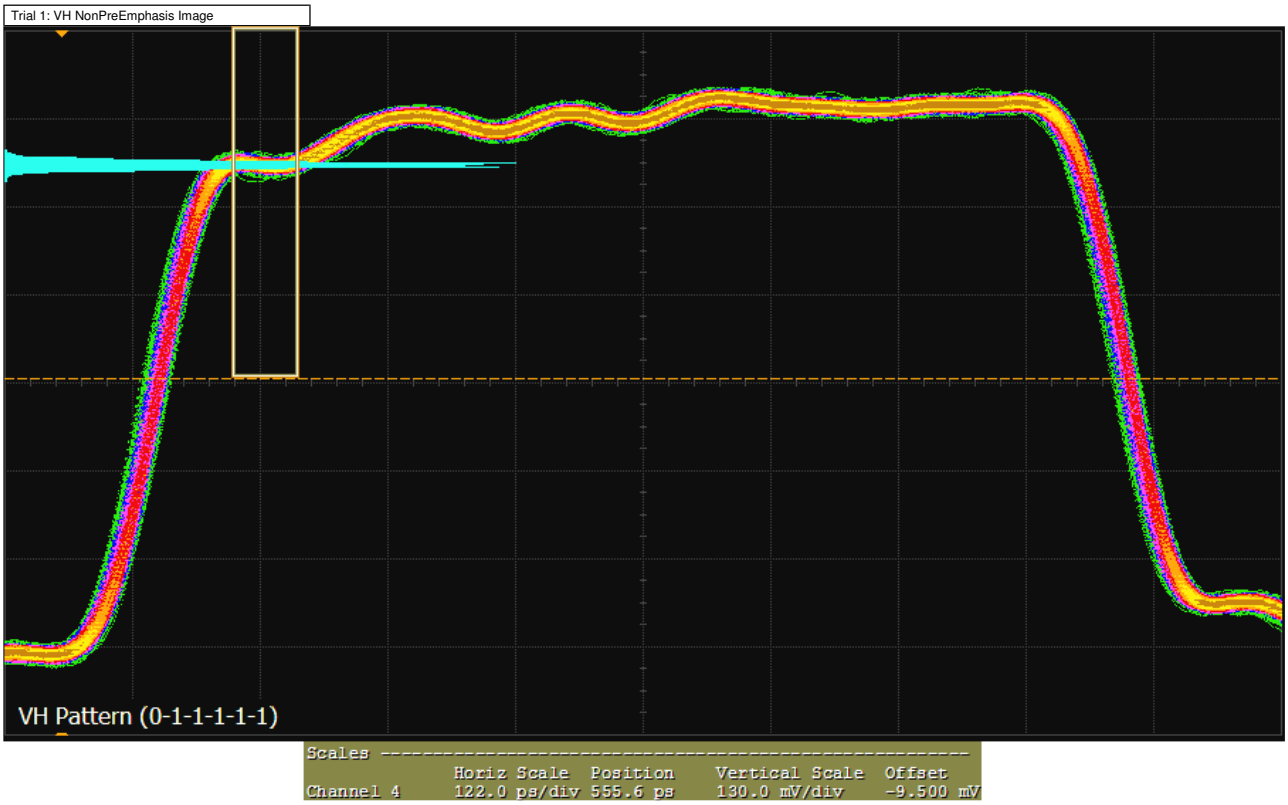
**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VH NonPreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-1.916 dB* | *866.4 %* | | | | | | | | | | | |
| | *StdDev* | *115.8 mdB* | *46.35 %* | | | | | | | | | | | |
| | *Range* | *273.9 mdB* | *109.6 %* | | | | | | | | | | | |
| | *Min* | *-2.059 dB* | *814.0 %* | | | | | | | | | | | |
| | *Max* | *-1.785 dB* | *923.6 %* | | | | | | | | | | | |
| | *Sum* | *-7.665 dB* | *3.466 k%* | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | -1.785 dB | 814.0% | (See image) | (See image) | 1000 | 646.689 mV | 794.263 mV | -1.785 dB | 5.4 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | -1.946 dB | 878.4% | (See image) | (See image) | 1000 | 463.007 mV | 579.270 mV | -1.946 dB | 5.4 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | -2.059 dB | 923.6% | (See image) | (See image) | 1000 | 317.273 mV | 402.157 mV | -2.059 dB | 5.4 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | -1.874 dB | 849.6% | (See image) | (See image) | 1000 | 809.137 mV | 1.003986 V | -1.874 dB | 5.4 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

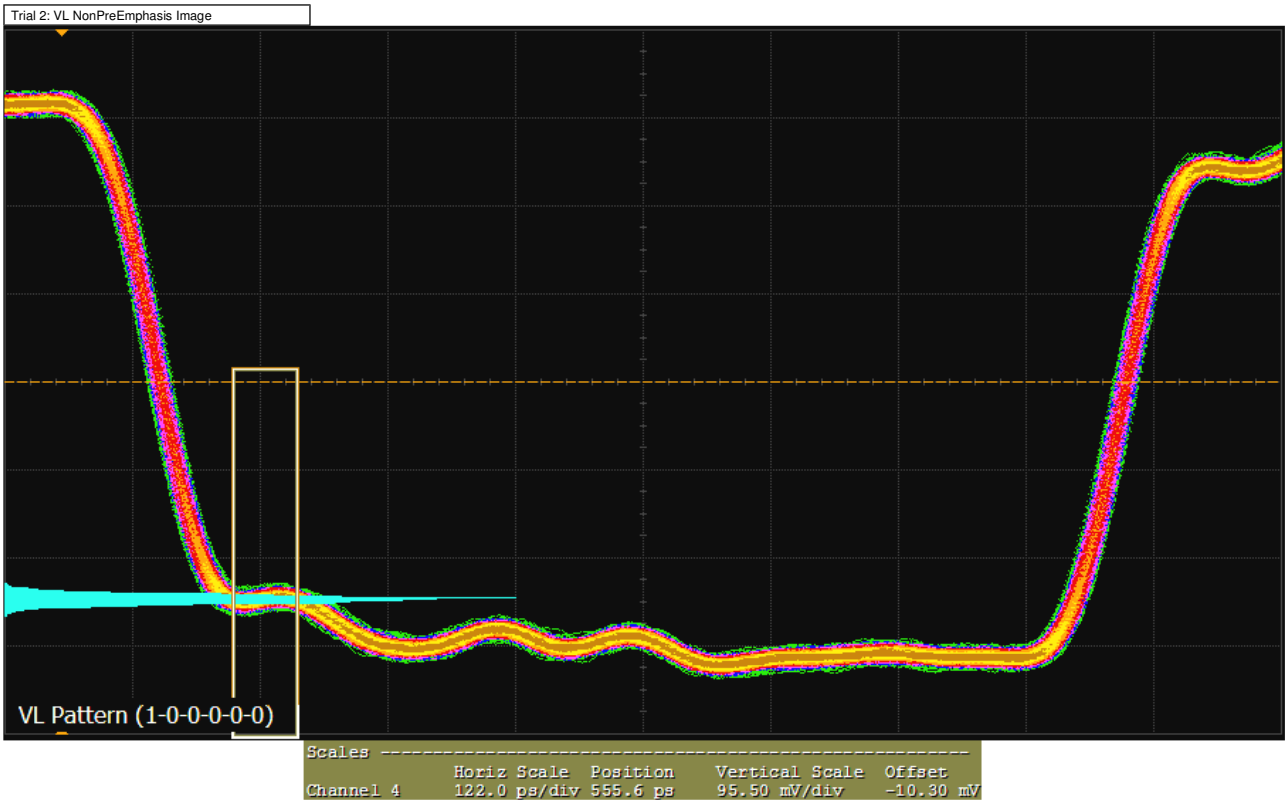
**Trial 1**

Trial 1: VL NonPreEmphasis Image

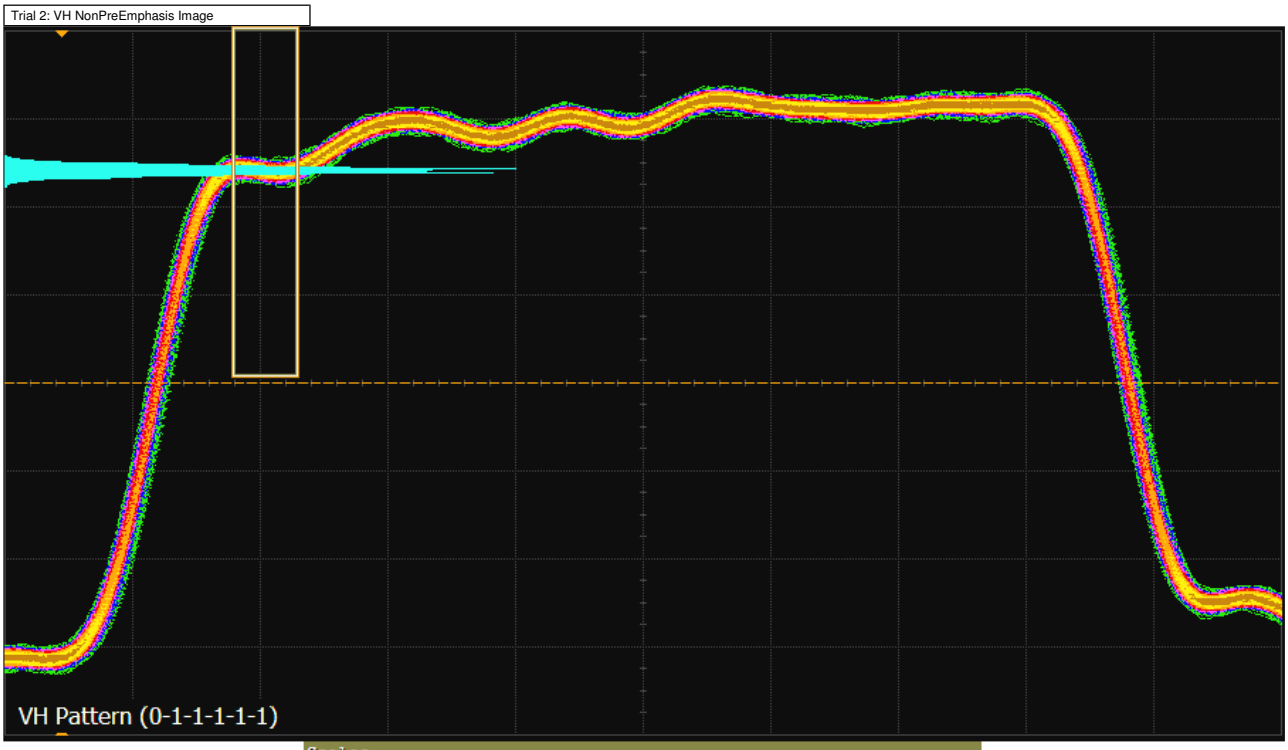



Trial 1: VH NonPreEmphasis Image
VH Pattern (0-1-1-1-1-1)
Scales
Horiz Scale Position Vertical Scale Offset
Channel 4 122.0 ps/div 555.6 ps 130.0 mV/div -9.500 mV

**Trial 2**


Trial 2: VL NonPreEmphasis Image
VL Pattern (1-0-0-0-0-0)
Scales
Horiz Scale Position Vertical Scale Offset
Channel 4 122.0 ps/div 555.6 ps 95.50 mV/div -10.30 mV

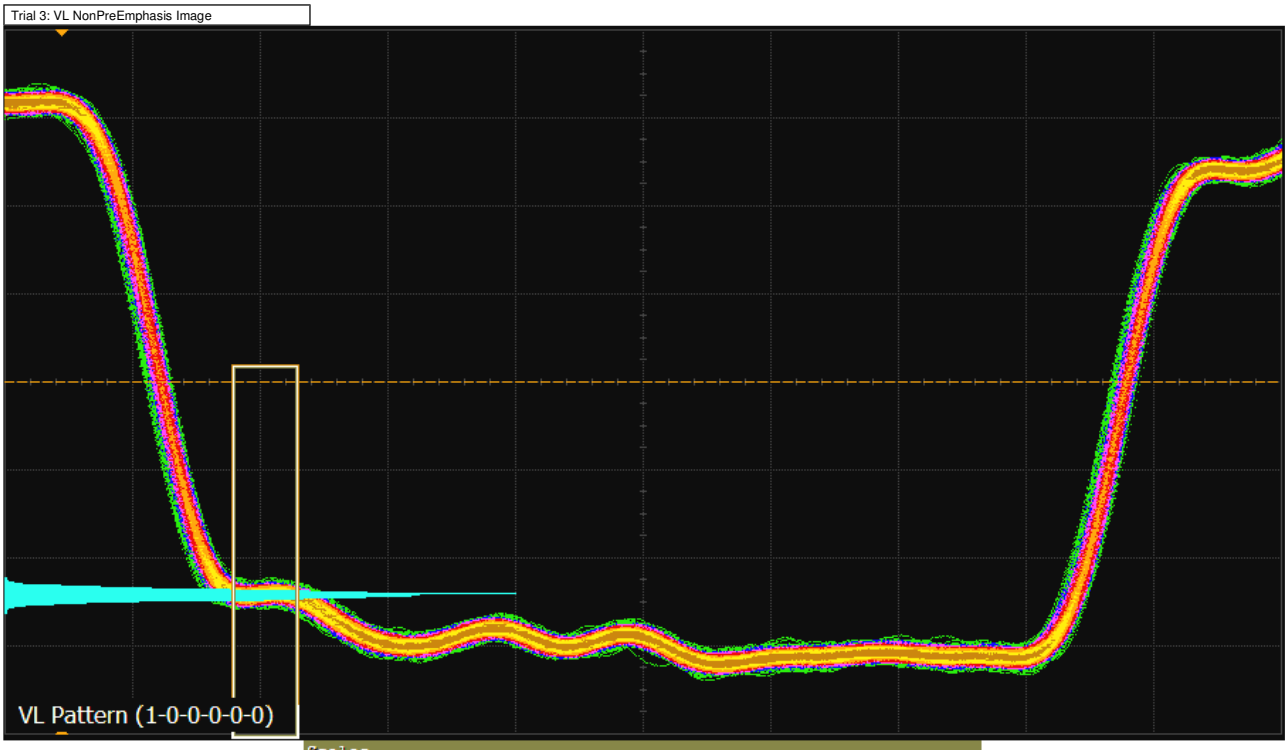
Trial 2: VH NonPreEmphasis Image



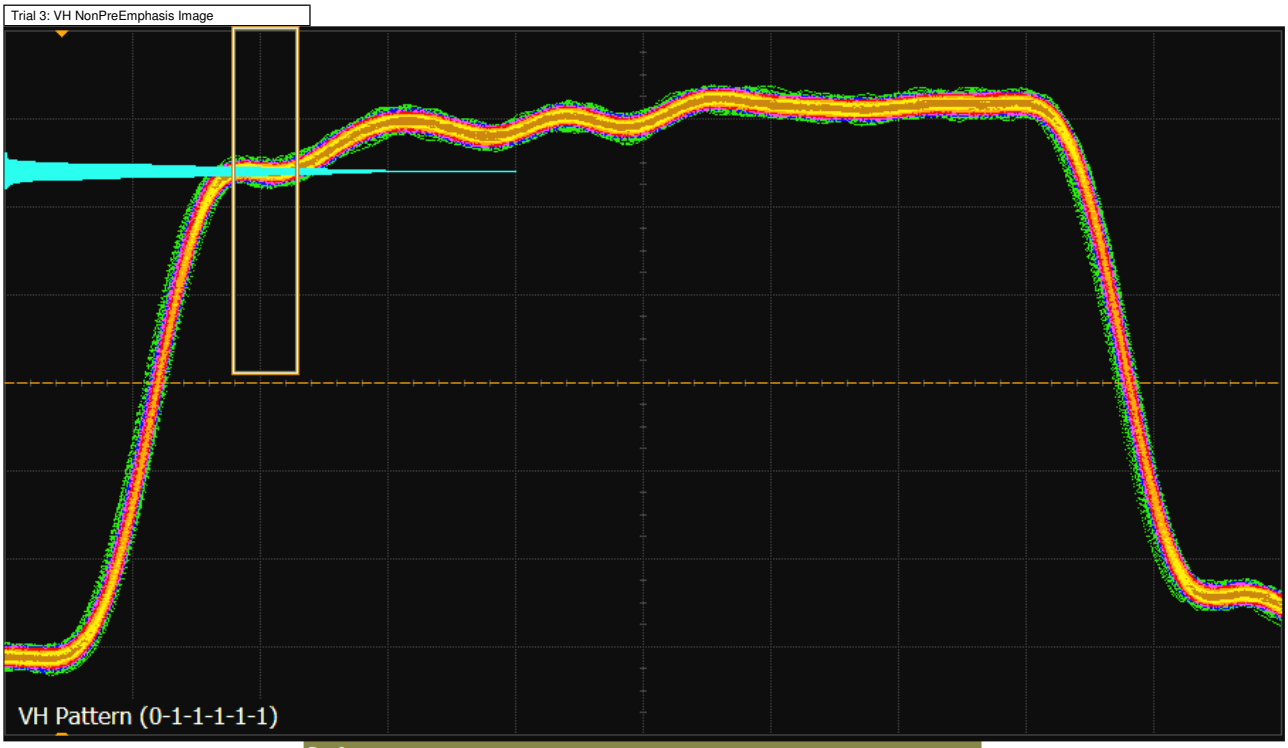

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 95.50 mV/div | -10.30 mV |

Trial 3

Trial 3: VL NonPreEmphasis Image

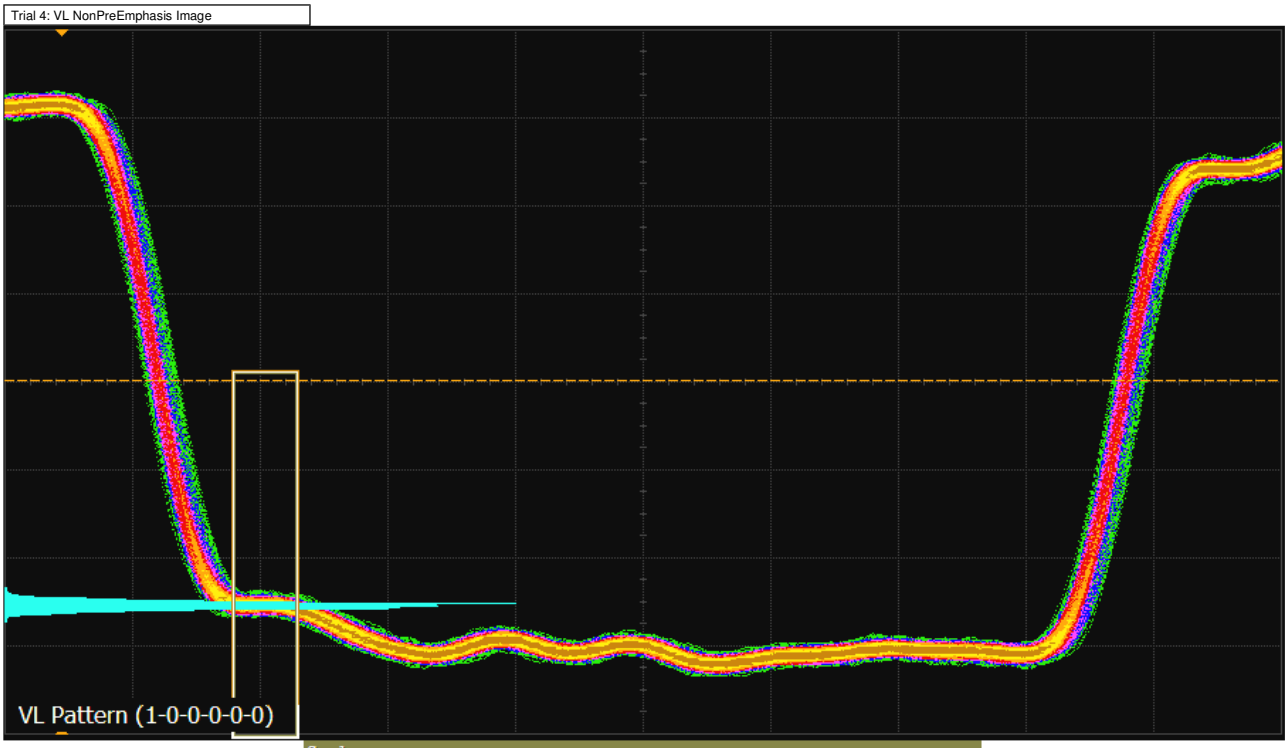



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 67.80 mV/div | -9.800 mV |



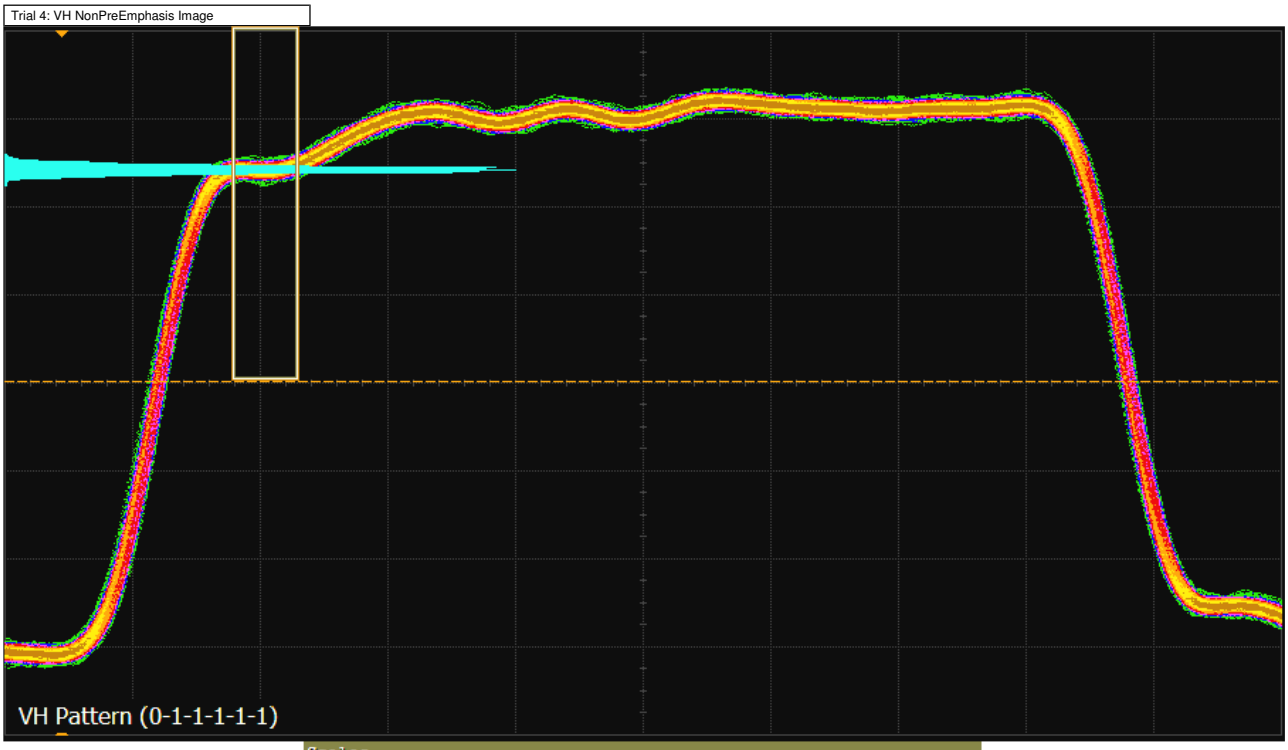

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 67.80 mV/div | -9.800 mV |

**Trial 4**




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 165.0 mV/div | -12.10 mV |

Trial 4: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 165.0 mV/div | -12.10 mV |

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## Lane 0 - PLTPAT - 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: Pass

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

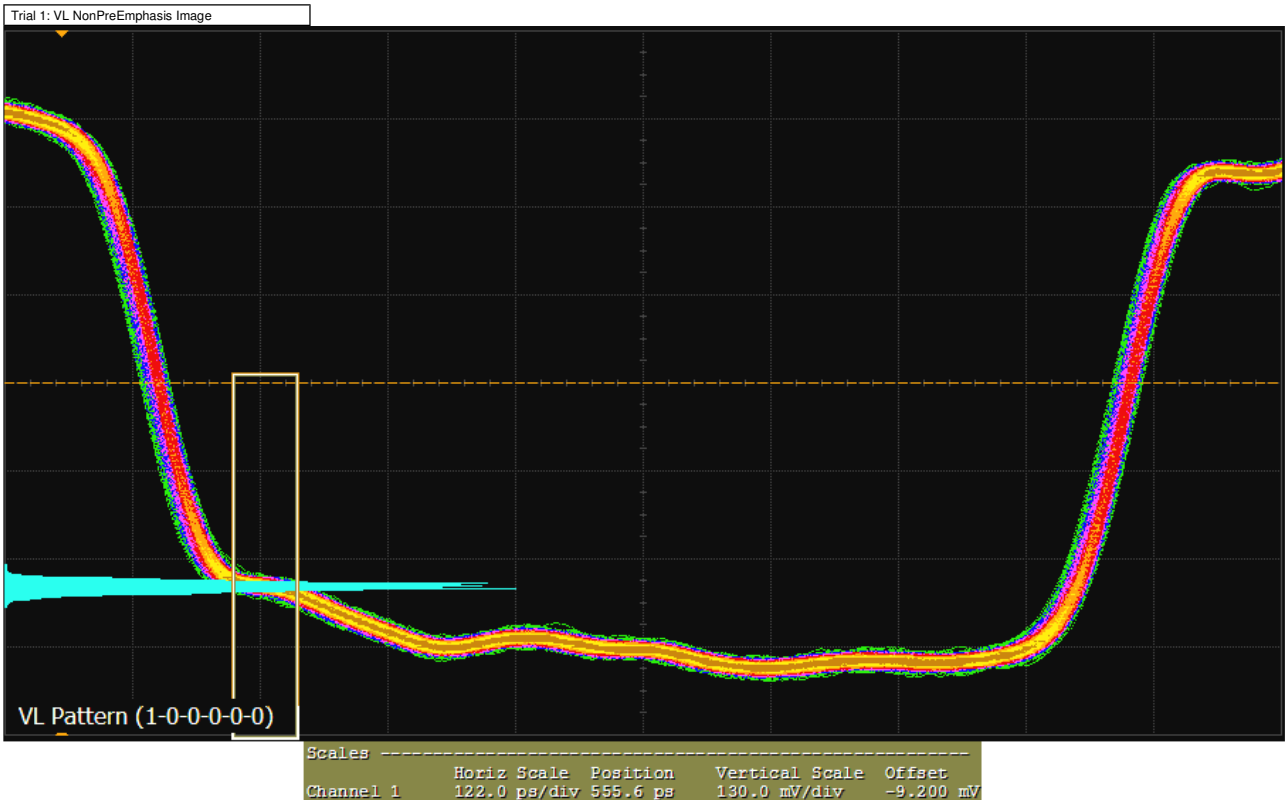
**Pass Limits:** >= 2.000 dB | **PreEmphasis (Pre-emphasis 1) (Worst of 3 Trials)** 5.464 dB | **# Trials Run:** 3 | **Worst Trial:** Trial 1

**Overall Summary + details of 3 worst trials**

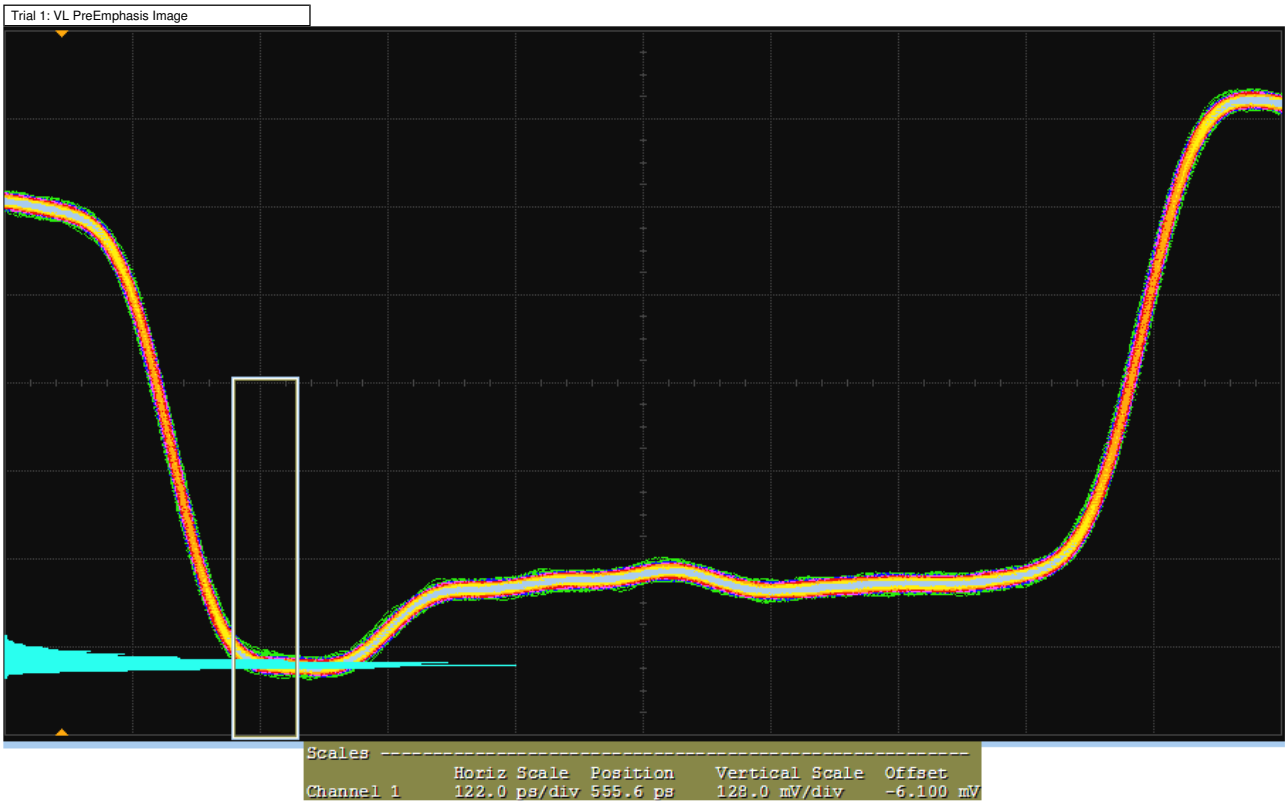
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *5.883 dB* | *194.2 %* | | | | | | | | | | | | | |
| | *StdDev* | *363.2 mdB* | *18.16 %* | | | | | | | | | | | | | |
| | *Range* | *631.7 mdB* | *31.60 %* | | | | | | | | | | | | | |
| | *Min* | *5.464 dB* | *173.2 %* | | | | | | | | | | | | | |
| | *Max* | *6.096 dB* | *204.8 %* | | | | | | | | | | | | | |
| | *Sum* | *17.65 dB* | *582.5 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 5.464 dB | 173.2% | (See image) | (See image) | (See image) | (See image) | 1000 | 846.755 mV | 587.262 mV | 3.179 dB | 5.4 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 6.096 dB | 204.8% | (See image) | (See image) | (See image) | (See image) | 1000 | 730.967 mV | 483.377 mV | 3.592 dB | 5.4 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | 6.090 dB | 204.5% | (See image) | (See image) | (See image) | (See image) | 1000 | 508.945 mV | 341.692 mV | 3.461 dB | 5.4 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |

**Trial 1**

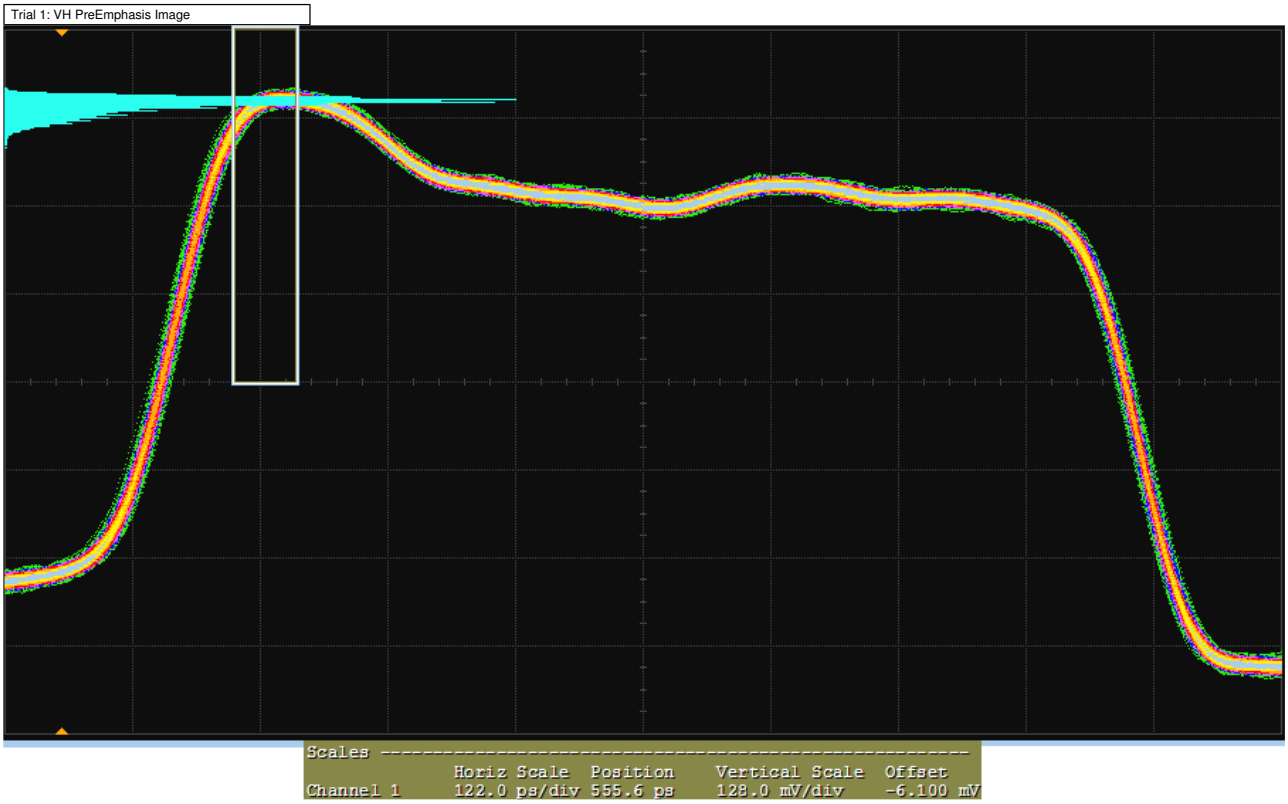
Trial 1: VL NonPreEmphasis Image



Trial 1: VL PreEmphasis Image

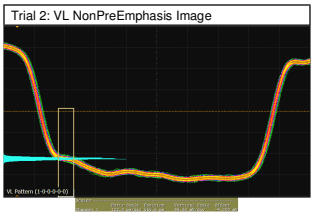



Trial 1: VH PreEmphasis Image

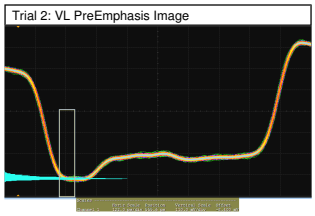



**Trial 2**

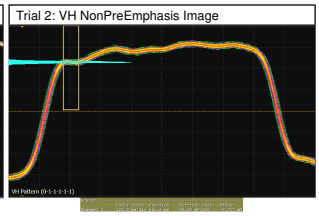
Trial 2: VL NonPreEmphasis Image



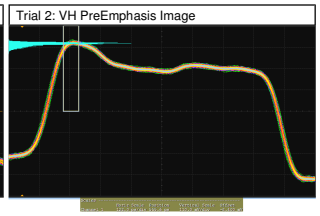
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image

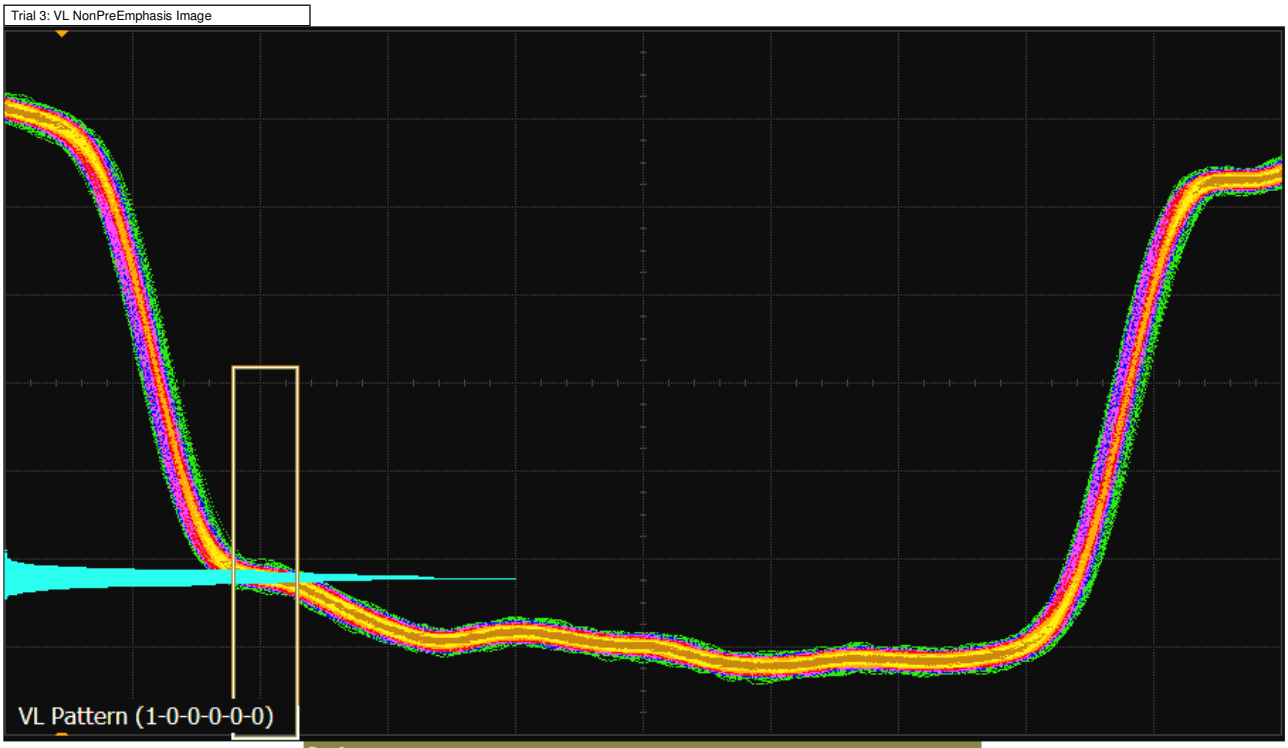


Trial 2: VH PreEmphasis Image



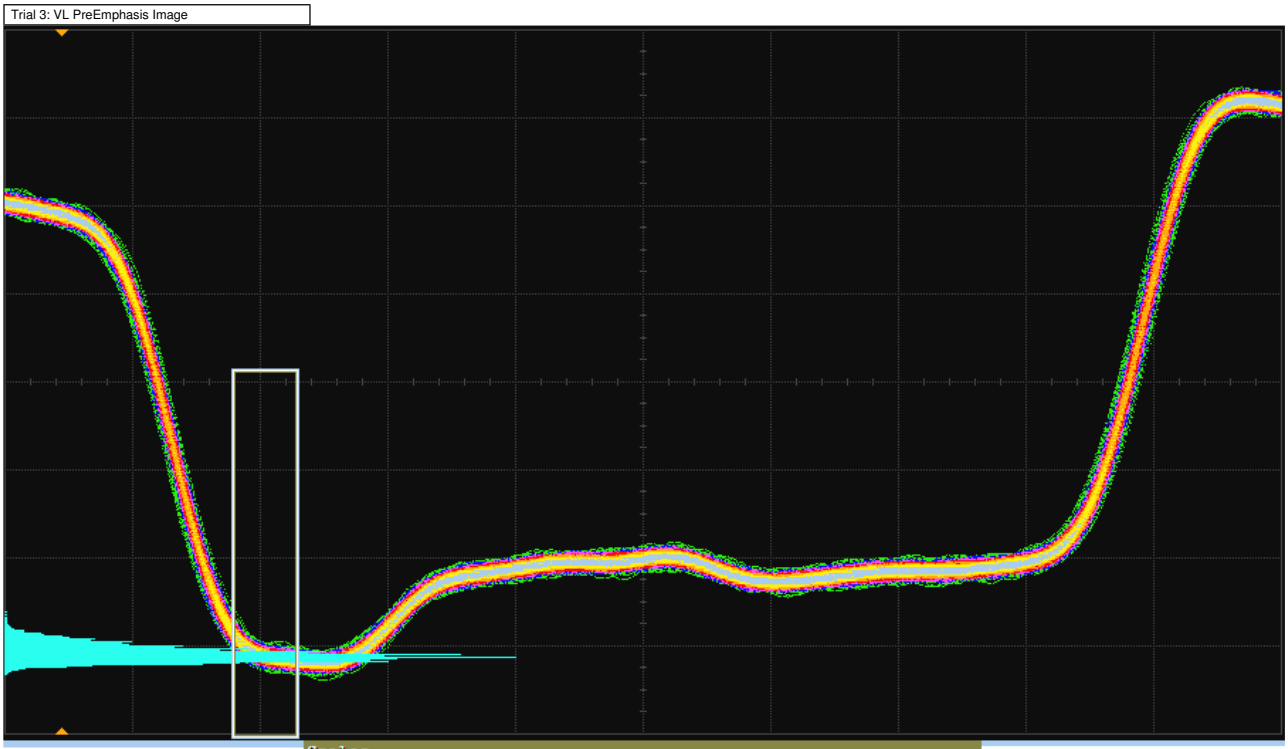
**Trial 3**

Trial 3: VL NonPreEmphasis Image



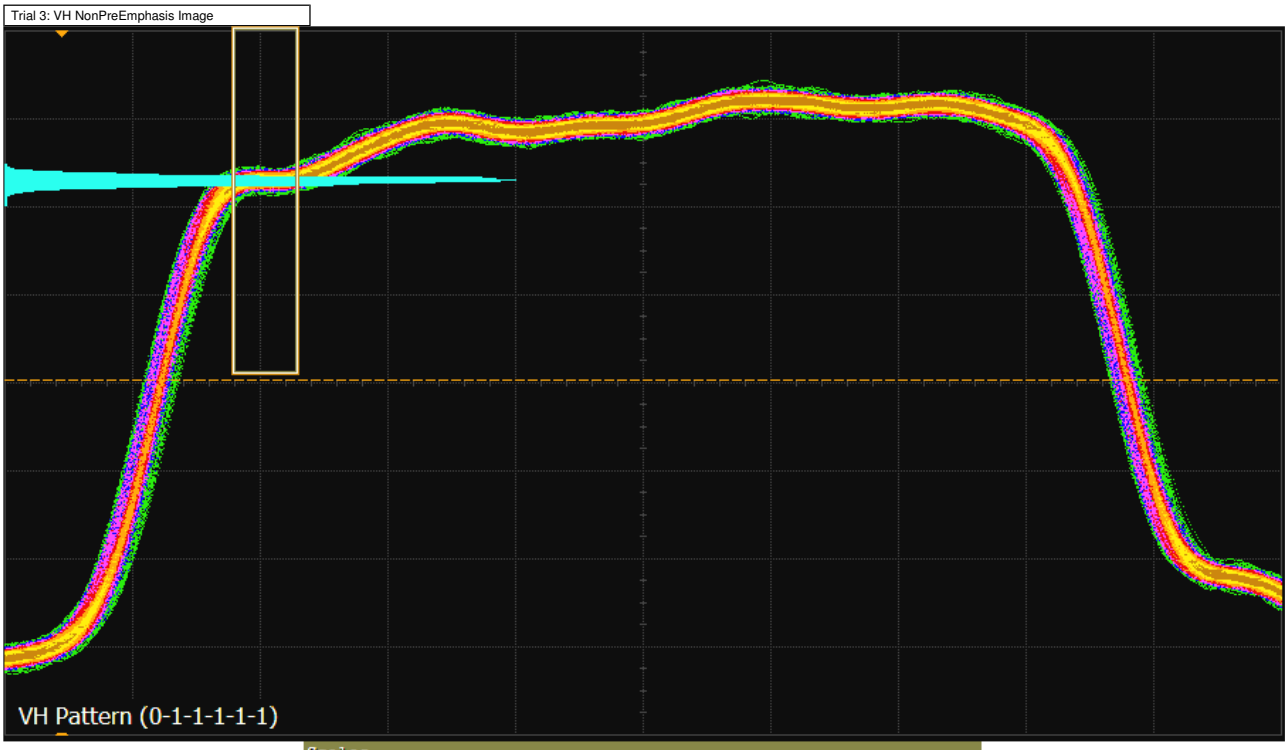

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 68.40 mV/div | -8.200 mV |

Trial 3: VL PreEmphasis Image



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 78.50 mV/div | -8.600 mV |

Trial 3: VH NonPreEmphasis Image




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 68.40 mV/div | -8.200 mV |

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## Lane 1 - PLTPAT - 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.

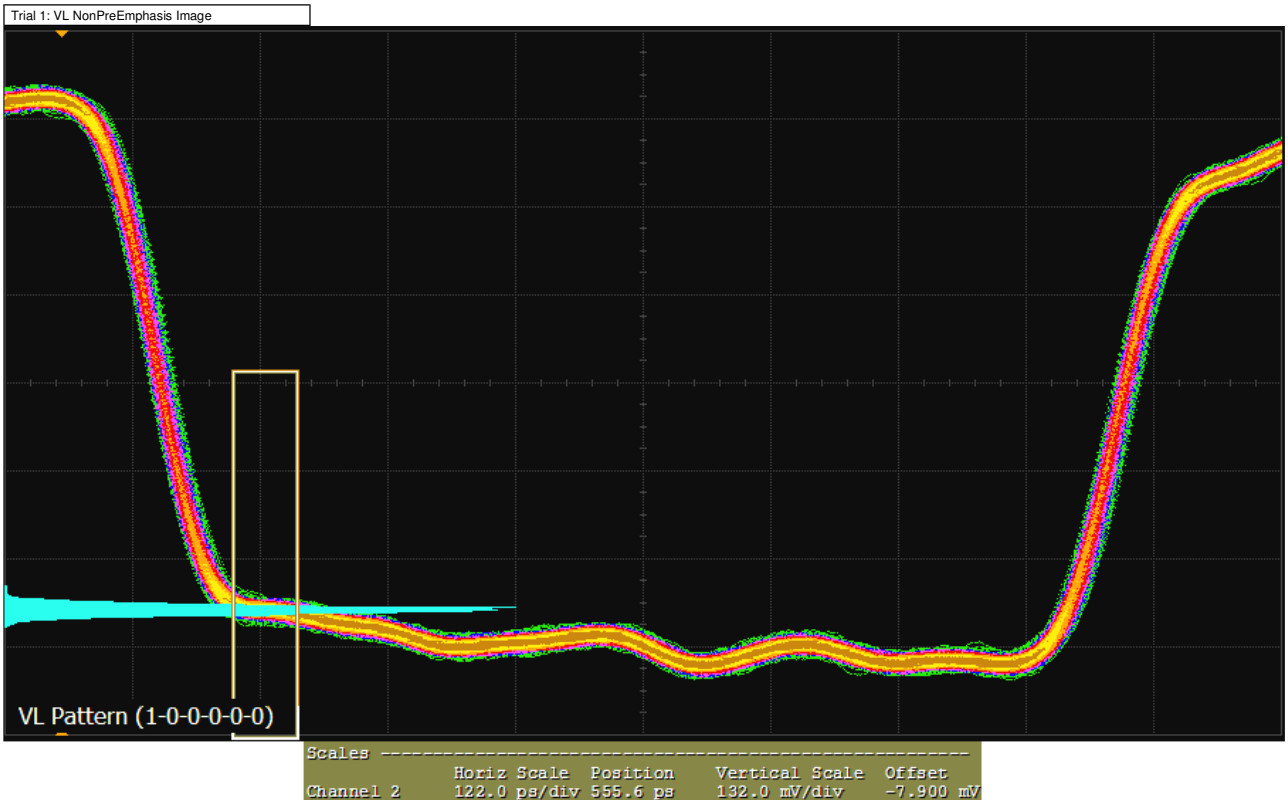
**Pass Limits:** >= 2.000 dB | **PreEmphasis(Pre-emphasis 1) (Worst of 3 Trials)** -53 mdB | **# Trials Run:** 3 | **Worst Trial:** Trial 3

**Overall Summary + details of 3 worst trials**

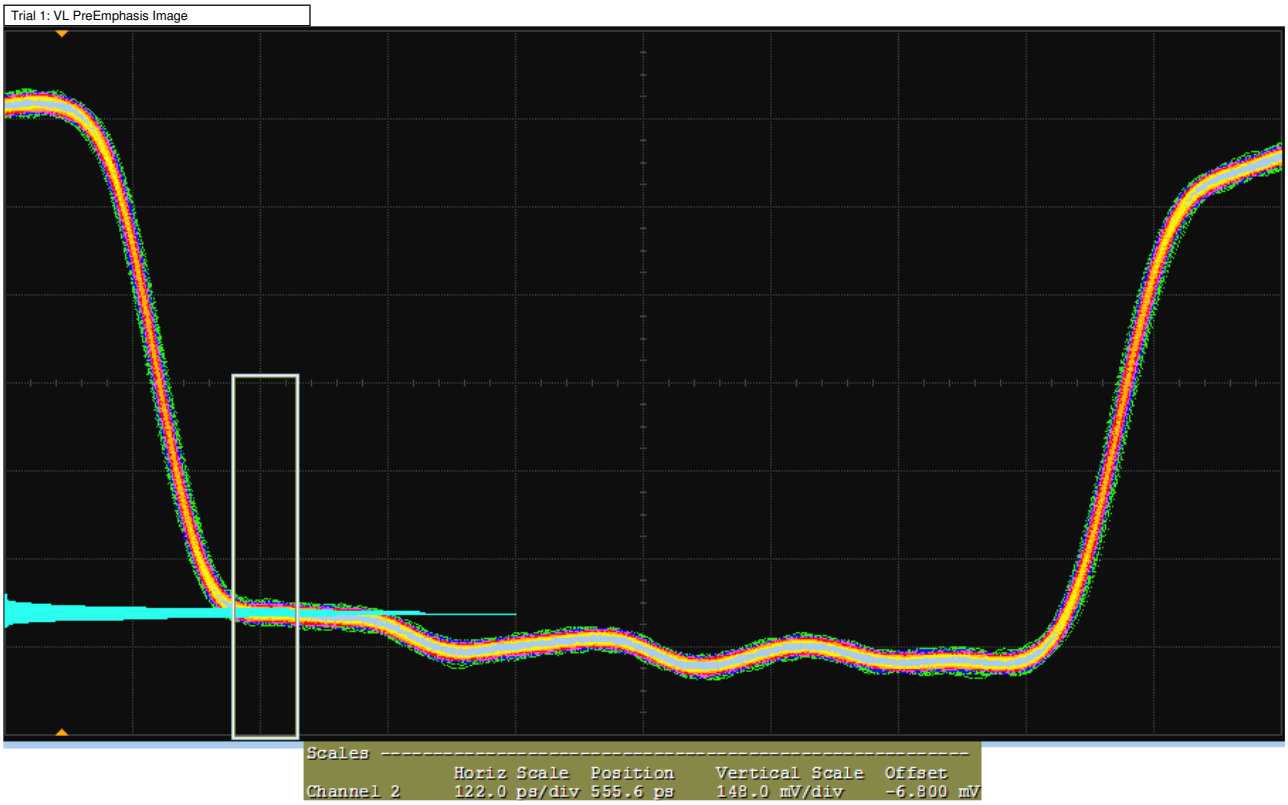
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *52.60 mdB* | *-97.38 %* | | | | | | | | | | | | | |
| | *StdDev* | *92.15 mdB* | *4.588 %* | | | | | | | | | | | | | |
| | *Range* | *168.7 mdB* | *8.400 %* | | | | | | | | | | | | | |
| | *Min* | *-53.17 mdB* | *-102.7 %* | | | | | | | | | | | | | |
| | *Max* | *115.5 mdB* | *-94.25 %* | | | | | | | | | | | | | |
| | *Sum* | *157.8 mdB* | *-292.2 %* | | | | | | | | | | | | | |
| ✗ | Trial 1 | 95 mdB | **-95.3%** | (See image) | (See image) | (See image) | (See image) | 1000 | 729.531 mV | 890.581 mV | -1.733 dB | 5.4 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✗ | Trial 2 | 115 mdB | **-94.3%** | (See image) | (See image) | (See image) | (See image) | 1000 | 584.648 mV | 713.255 mV | -1.727 dB | 5.4 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✗ | Trial 3 (Worst) | -53 mdB | **-102.7%** | (See image) | (See image) | (See image) | (See image) | 1000 | 396.794 mV | 501.513 mV | -2.034 dB | 5.4 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |

**Trial 1**

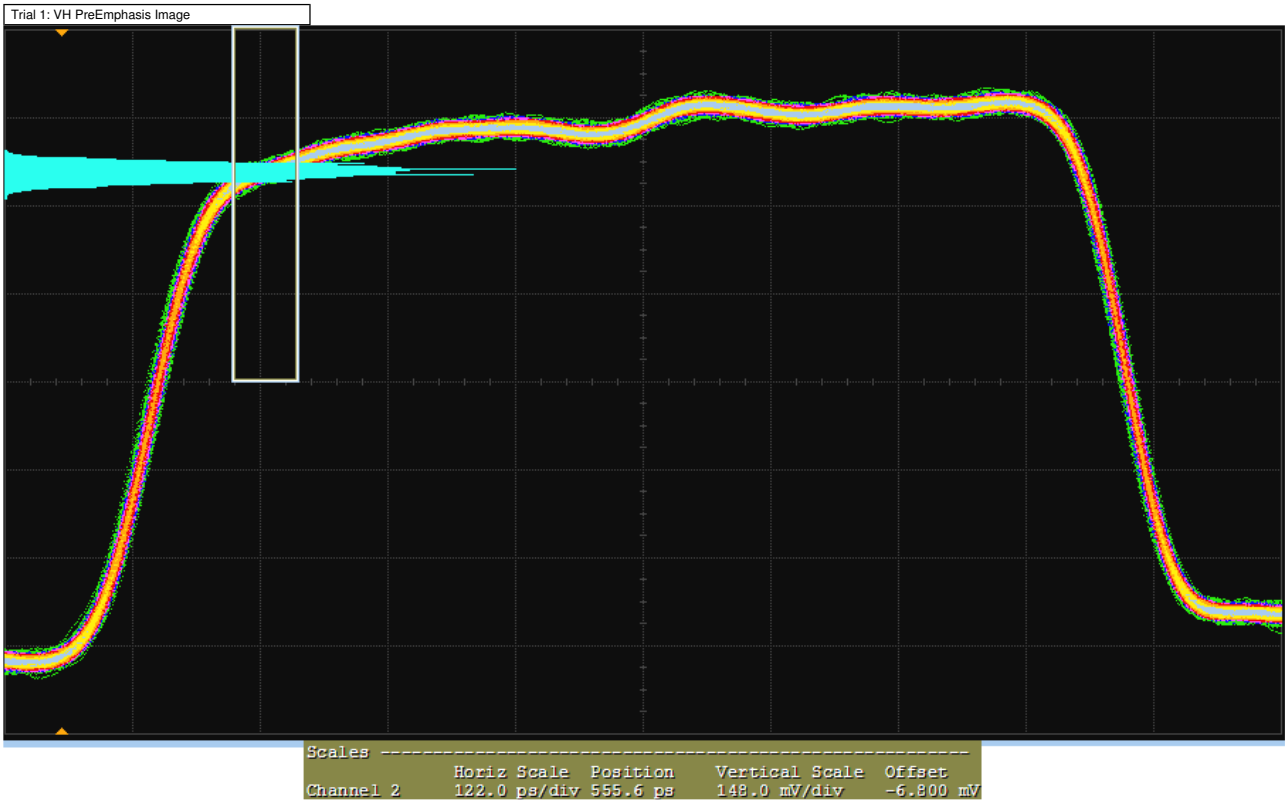
Trial 1: VL NonPreEmphasis Image



Trial 1: VL PreEmphasis Image

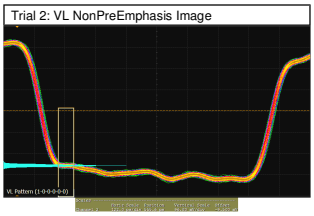



Trial 1: VH PreEmphasis Image

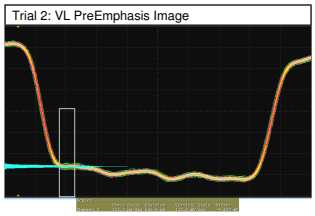



**Trial 2**

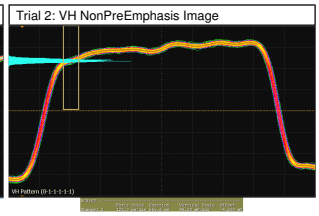
Trial 2: VL NonPreEmphasis Image



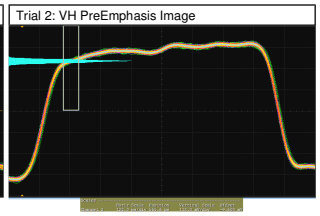
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image

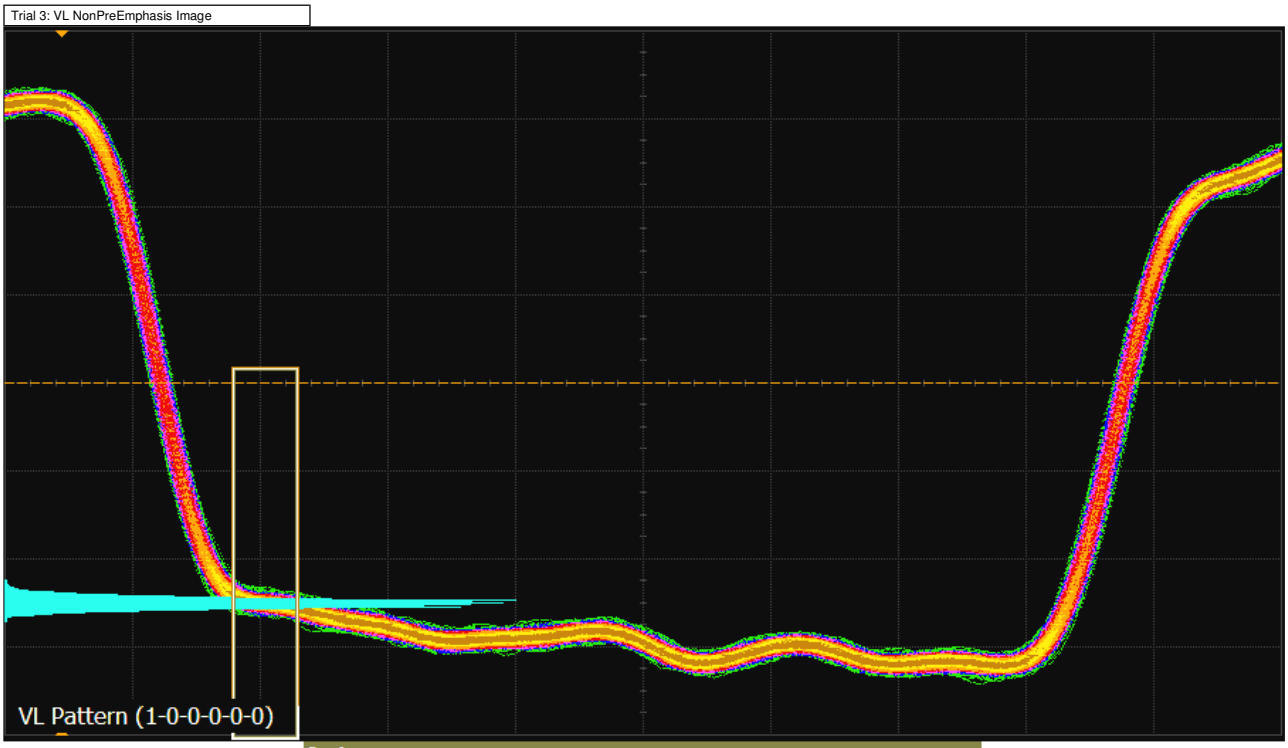


Trial 2: VH PreEmphasis Image



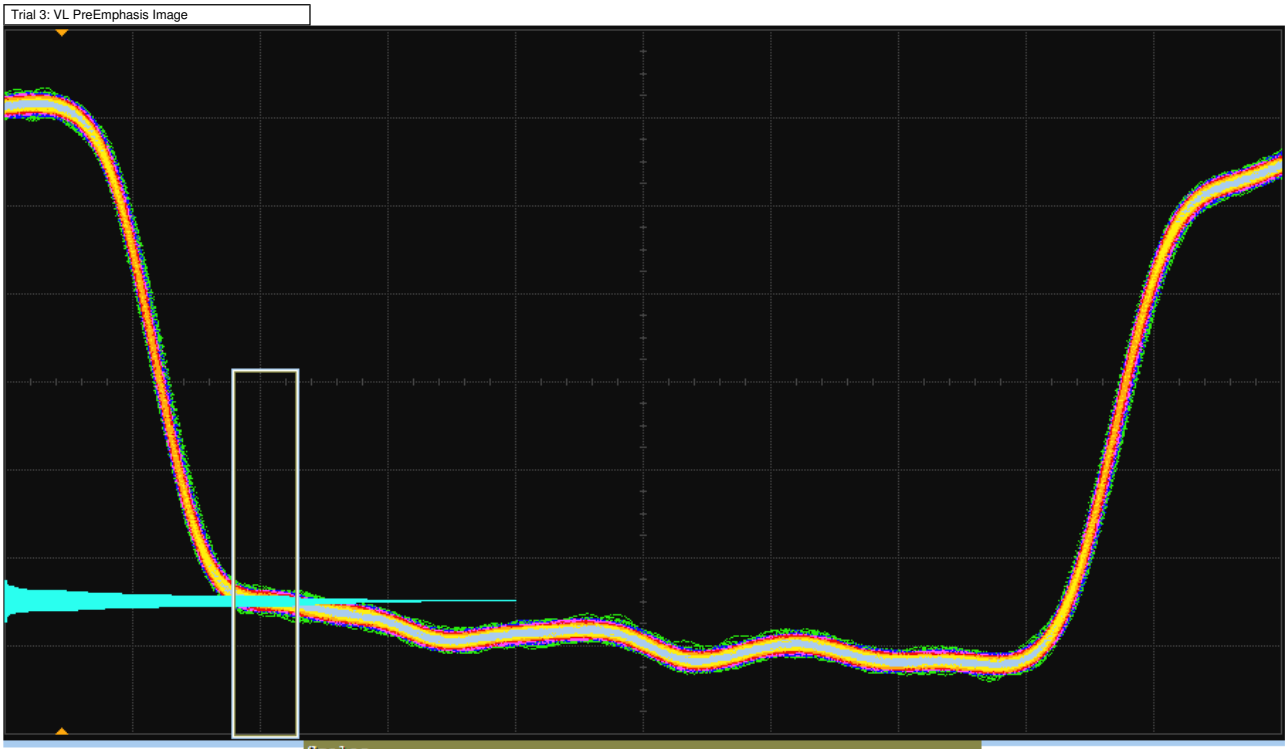
**Trial 3**

Trial 3: VL NonPreEmphasis Image



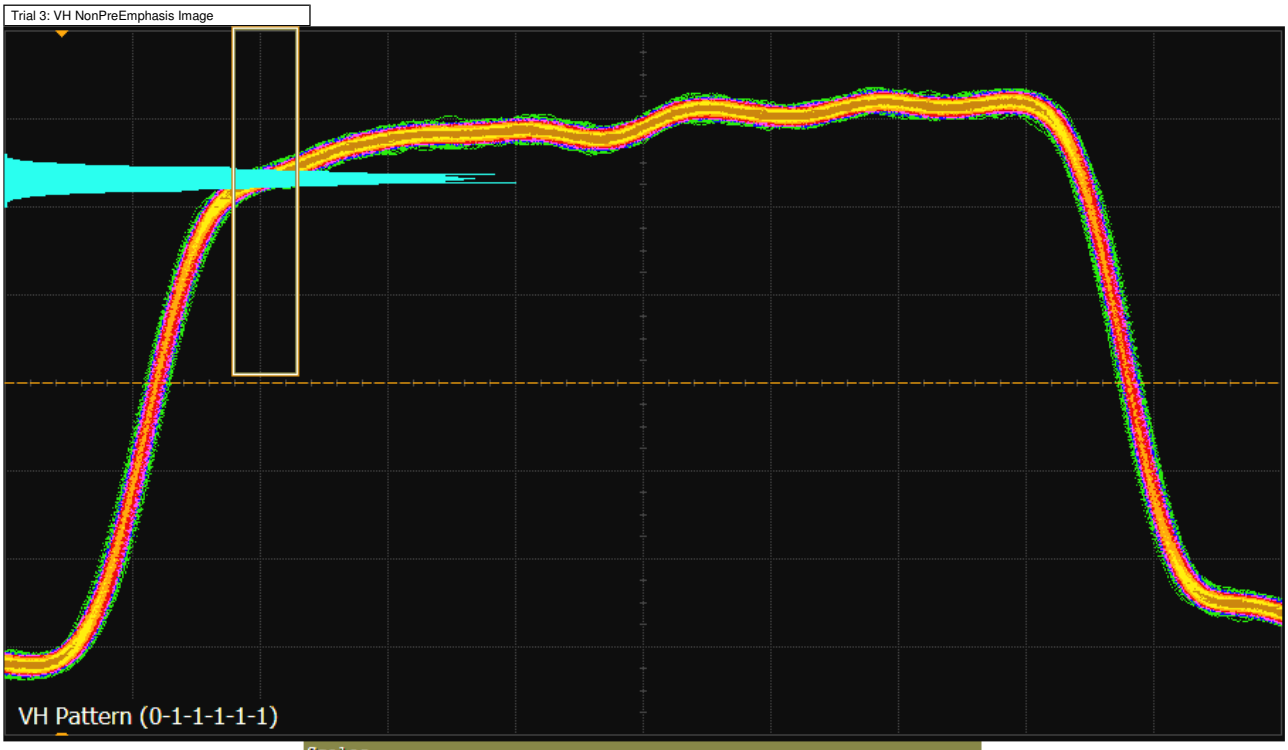

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 69.30 mV/div | -9.100 mV |

Trial 3: VL PreEmphasis Image



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 83.70 mV/div | -6.800 mV |

Trial 3: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 69.30 mV/div | -9.100 mV |

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## Lane 2 - PLTPAT - 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: Pass

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

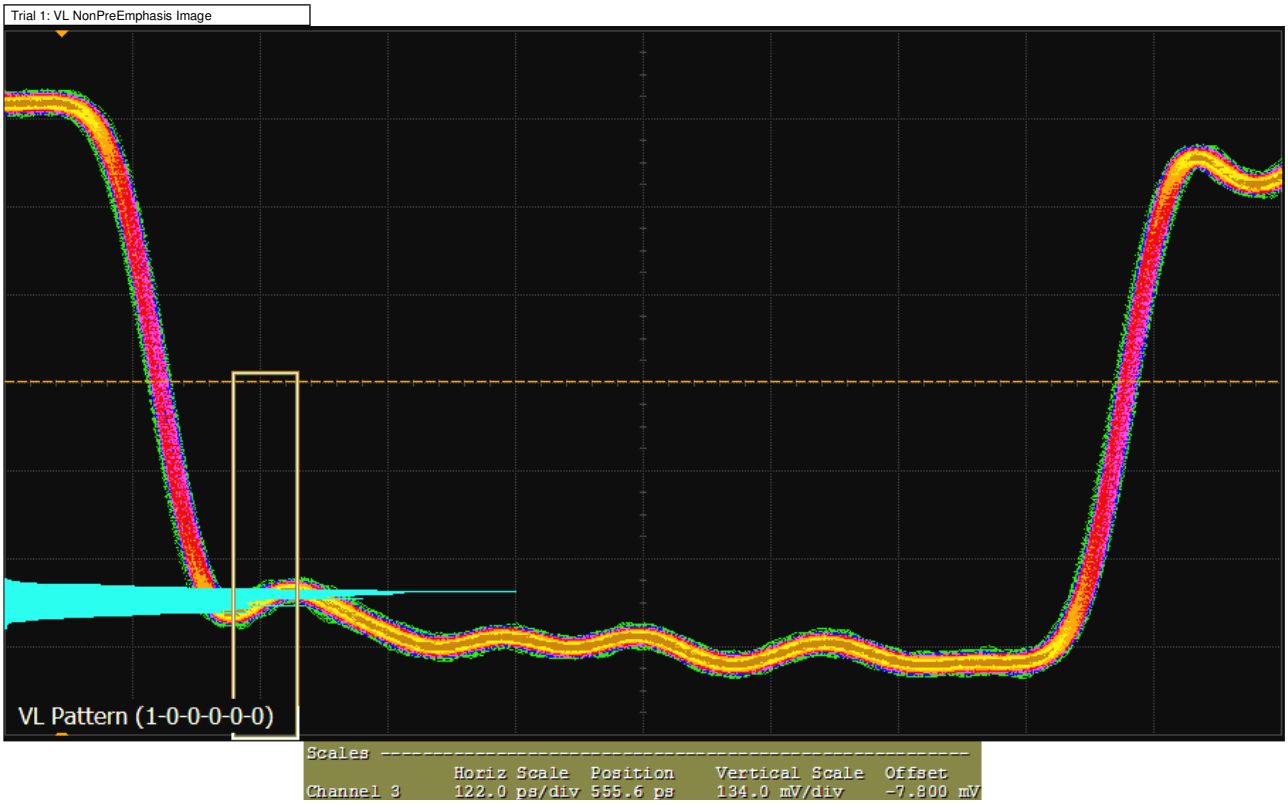
**Pass Limits:** >= 2.000 dB | **PreEmphasis(Pre-emphasis 1) (Worst of 3 Trials)** 3.622 dB | **# Trials Run:** 3 | **Worst Trial:** Trial 1

**Overall Summary + details of 3 worst trials**

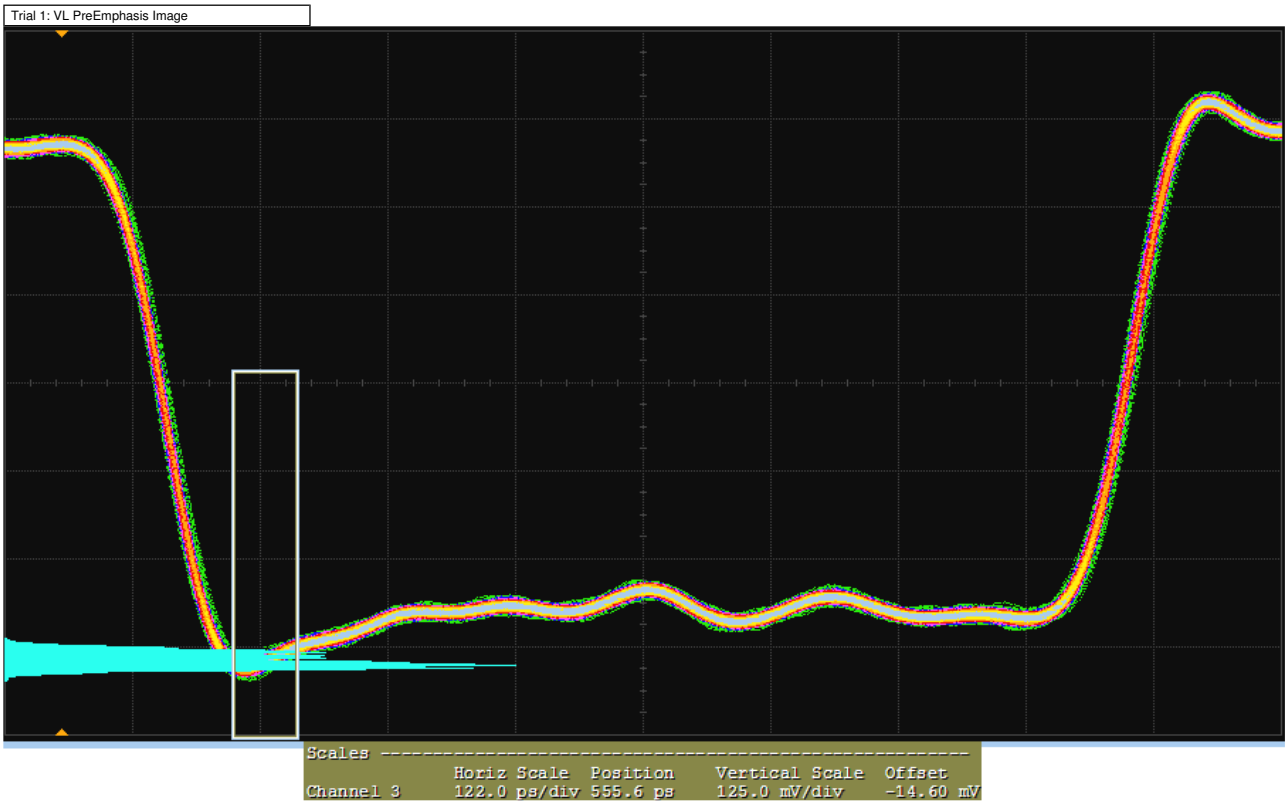
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *3.850 dB* | *92.50 %* | | | | | | | | | | | | | |
| | *StdDev* | *197.8 mdB* | *9.901 %* | | | | | | | | | | | | | |
| | *Range* | *356.4 mdB* | *17.85 %* | | | | | | | | | | | | | |
| | *Min* | *3.622 dB* | *81.10 %* | | | | | | | | | | | | | |
| | *Max* | *3.979 dB* | *98.95 %* | | | | | | | | | | | | | |
| | *Sum* | *11.55 dB* | *277.5 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 3.622 dB | 81.1% | (See image) | (See image) | (See image) | (See image) | 1000 | 863.309 mV | 719.750 mV | 1.580 dB | 5.4 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 3.979 dB | 99.0% | (See image) | (See image) | (See image) | (See image) | 1000 | 719.803 mV | 583.012 mV | 1.831 dB | 5.4 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | 3.949 dB | 97.5% | (See image) | (See image) | (See image) | (See image) | 1000 | 499.881 mV | 414.278 mV | 1.631 dB | 5.4 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |

**Trial 1**

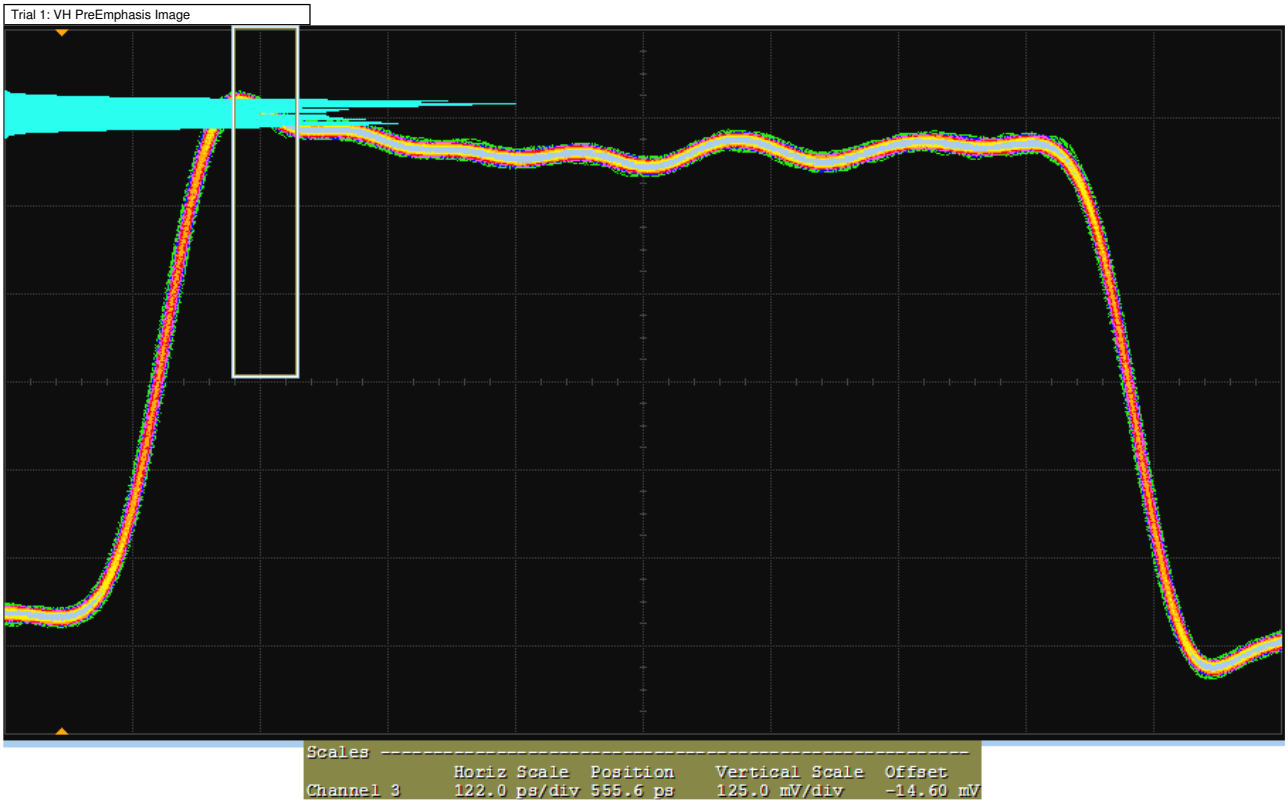
Trial 1: VL NonPreEmphasis Image



Trial 1: VL PreEmphasis Image

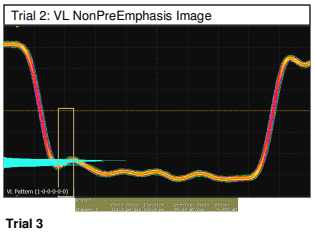



Trial 1: VH PreEmphasis Image

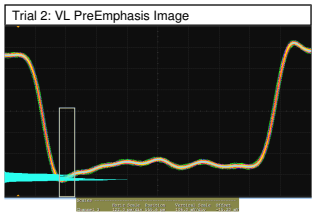



**Trial 2**

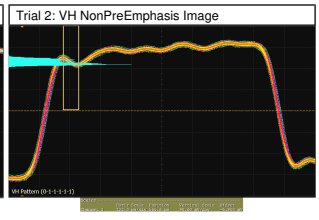
Trial 2: VL NonPreEmphasis Image



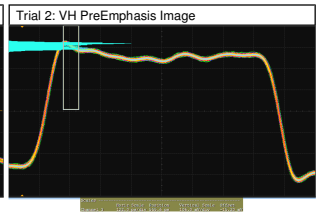
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image

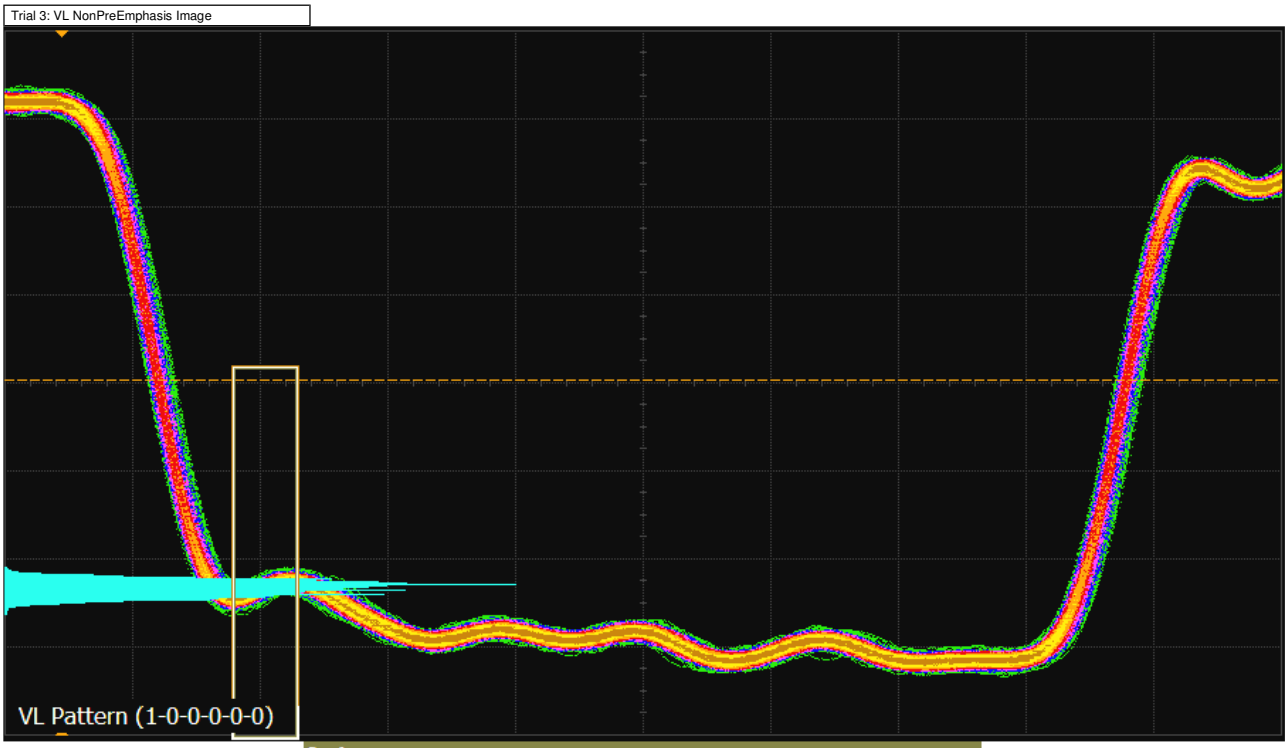


Trial 2: VH PreEmphasis Image



**Trial 3**

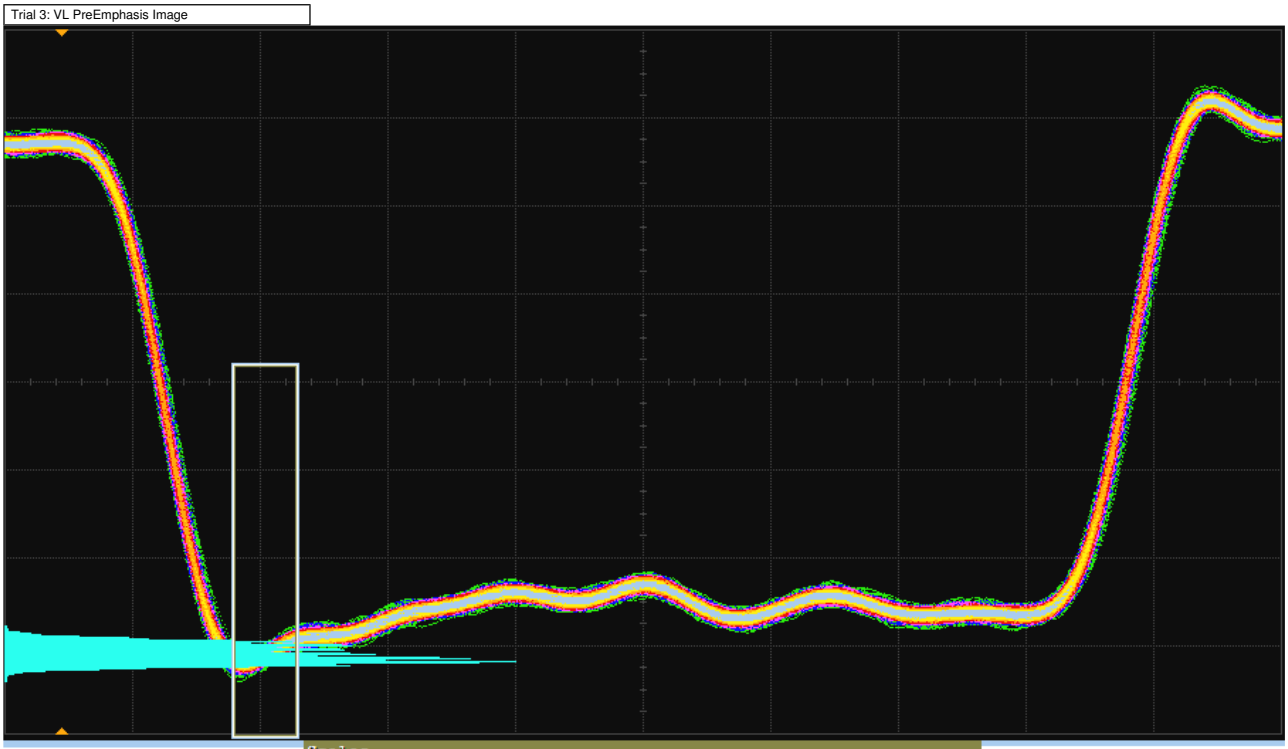
Trial 3: VL NonPreEmphasis Image




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 70.40 mV/div | -7.800 mV |

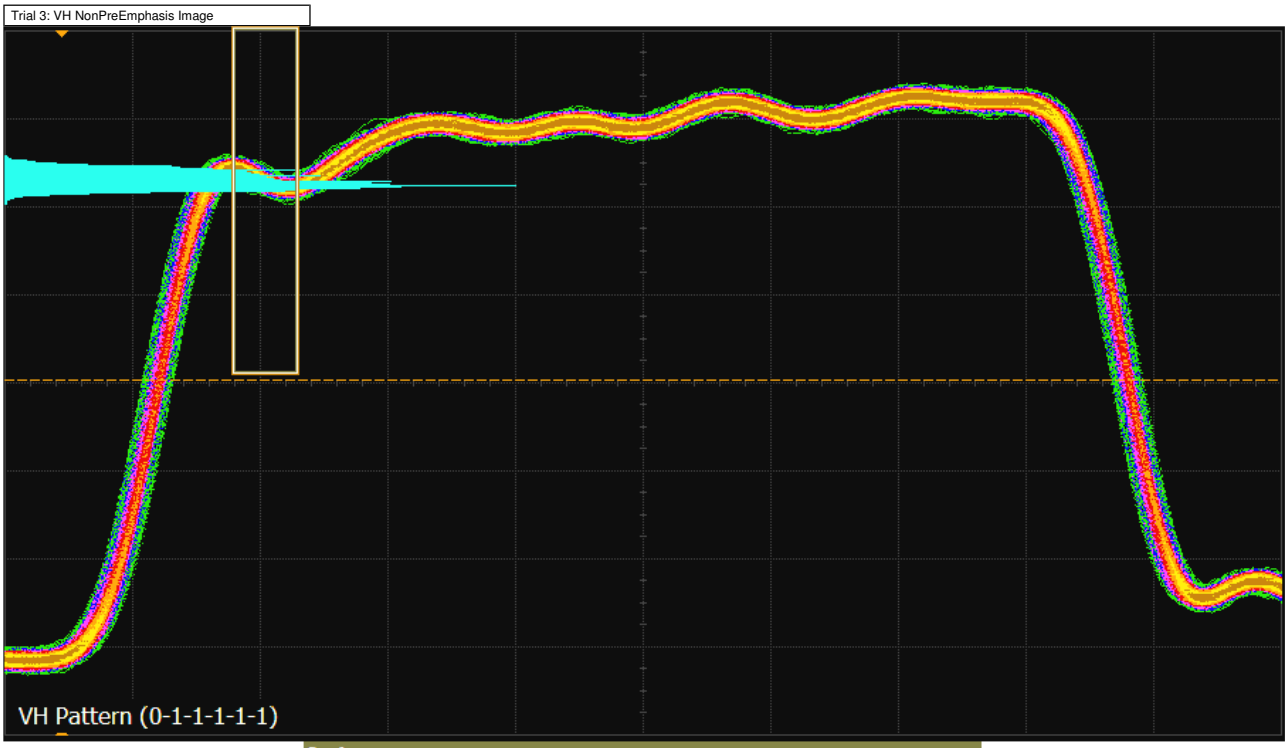
Trial 3: VL PreEmphasis Image



Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 74.50 mV/div | -11.20 mV |

Trial 3: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 70.40 mV/div | -7.800 mV |

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## Lane 3 - PLTPAT - 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.

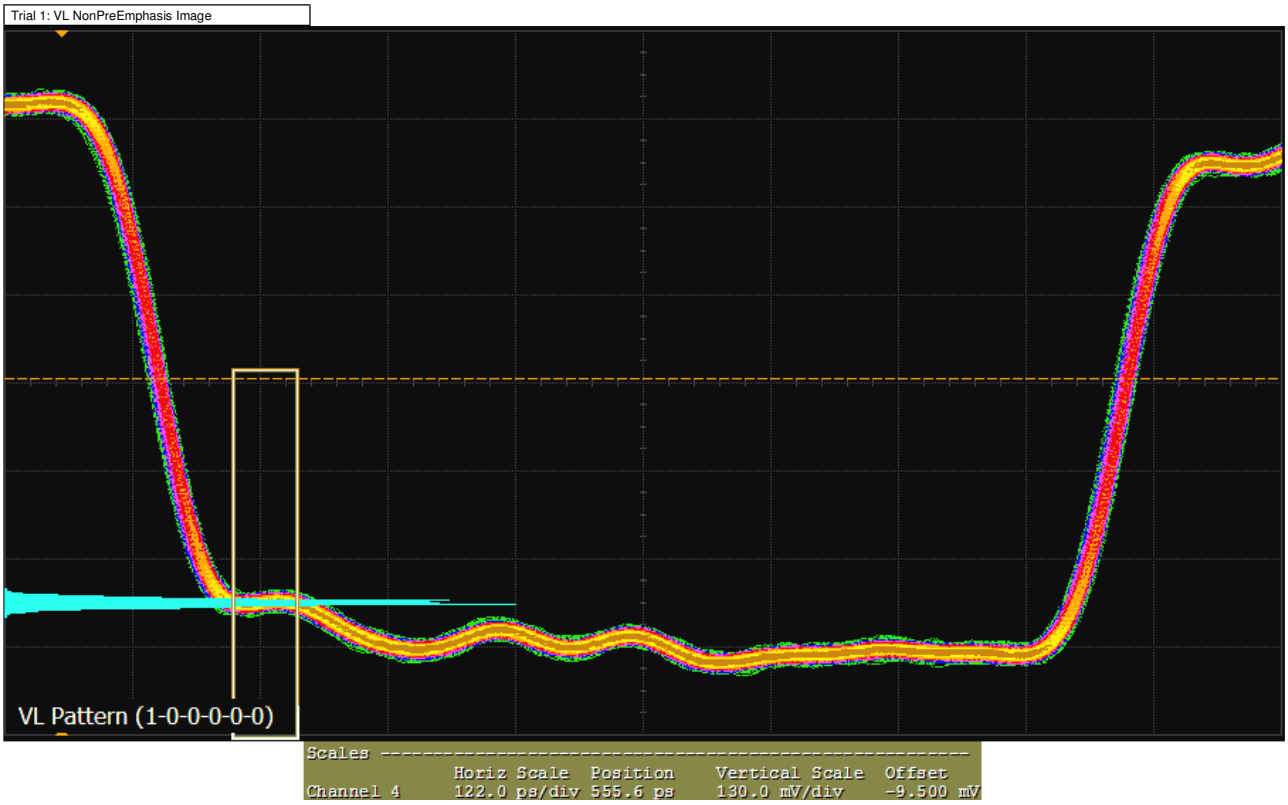
**Pass Limits:** >= 2.000 dB | **PreEmphasis(Pre-emphasis 1) (Worst of 3 Trials)** -109 mdB | **# Trials Run:** 3 | **Worst Trial:** Trial 1

**Overall Summary + details of 3 worst trials**

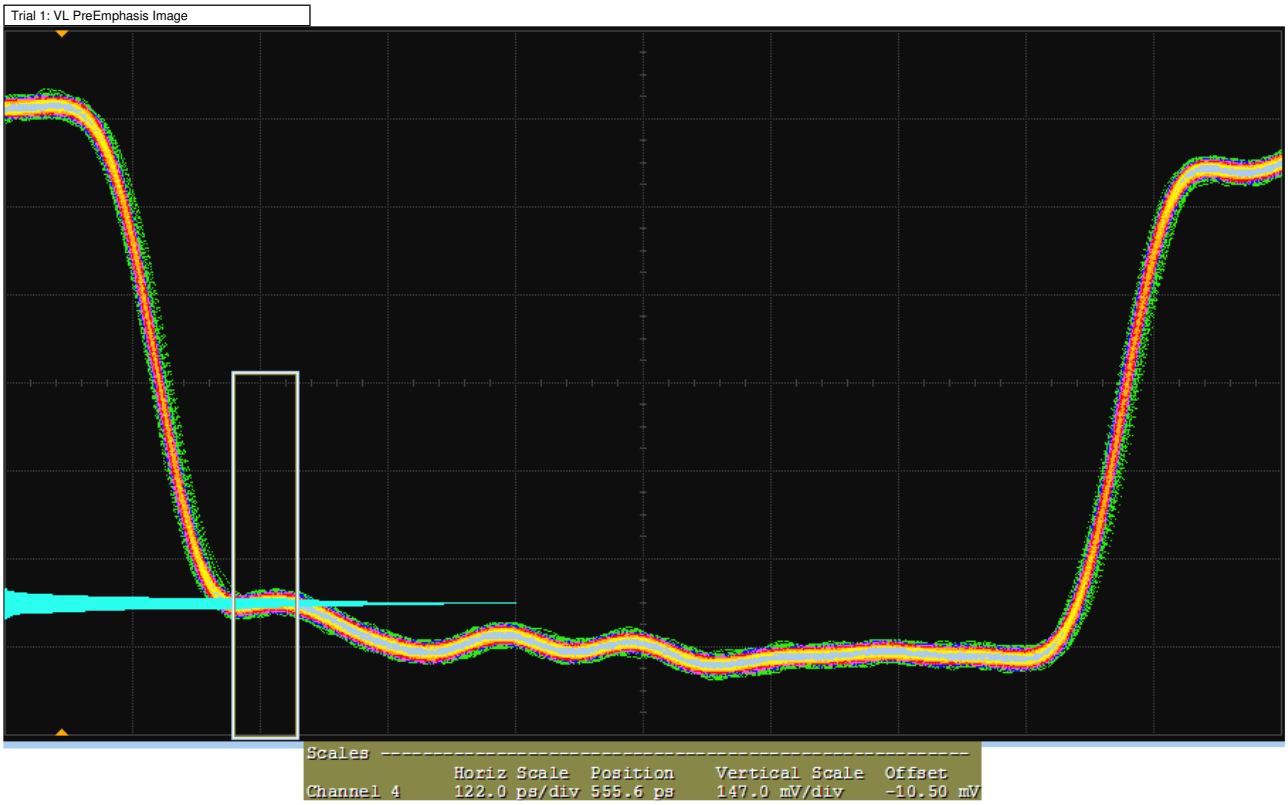
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-25.87 mdB* | *-101.3 %* | | | | | | | | | | | | | |
| | *StdDev* | *94.48 mdB* | *4.730 %* | | | | | | | | | | | | | |
| | *Range* | *185.7 mdB* | *9.300 %* | | | | | | | | | | | | | |
| | *Min* | *-108.7 mdB* | *-105.5 %* | | | | | | | | | | | | | |
| | *Max* | *77.02 mdB* | *-96.15 %* | | | | | | | | | | | | | |
| | *Sum* | *-77.62 mdB* | *-303.9 %* | | | | | | | | | | | | | |
| | Trial 1 (Worst) | -109 mdB | **-105.5%** | (See image) | (See image) | (See image) | (See image) | 1000 | 717.814 mV | 892.722 mV | -1.894 dB | 5.4 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| | Trial 2 | 77 mdB | **-96.2%** | (See image) | (See image) | (See image) | (See image) | 1000 | 574.172 mV | 712.006 mV | -1.869 dB | 5.4 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| | Trial 3 | -46 mdB | **-102.3%** | (See image) | (See image) | (See image) | (See image) | 1000 | 389.967 mV | 496.921 mV | -2.105 dB | 5.4 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |

**Trial 1**

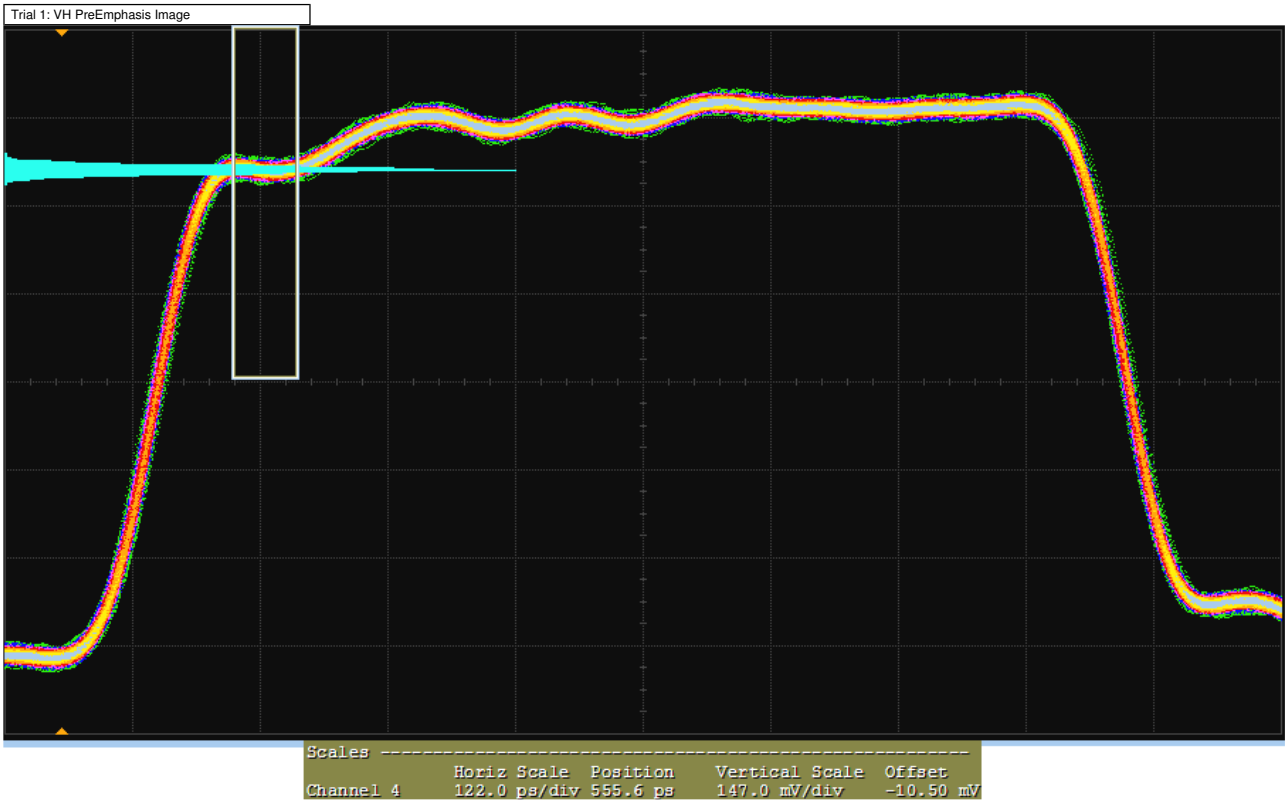
Trial 1: VL NonPreEmphasis Image



Trial 1: VL PreEmphasis Image

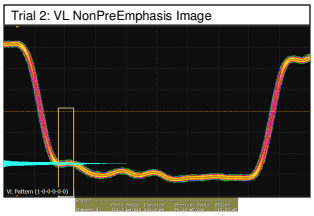



Trial 1: VH PreEmphasis Image

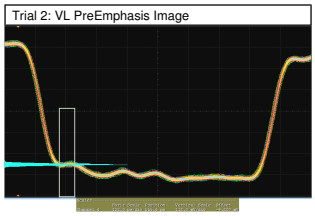



**Trial 2**

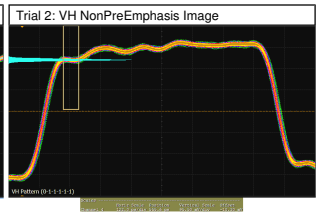
Trial 2: VL NonPreEmphasis Image



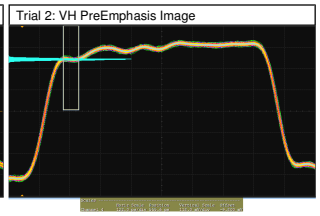
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



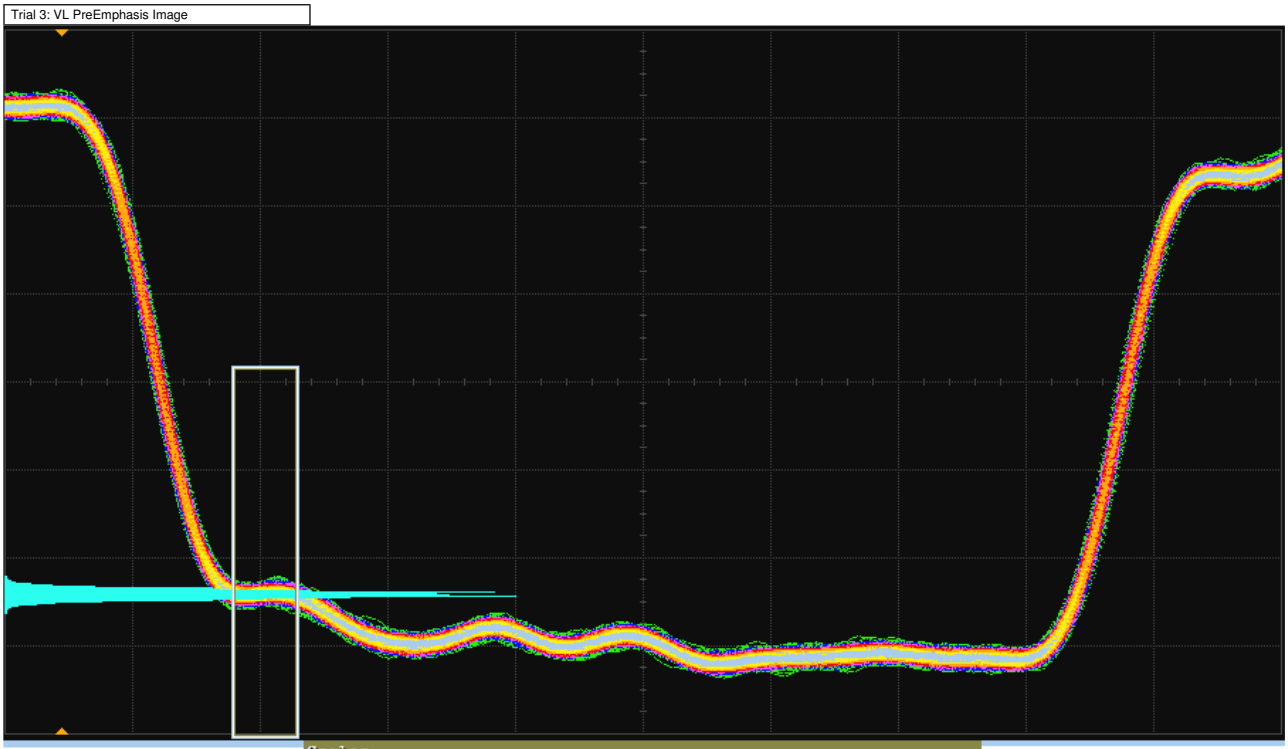
**Trial 3**

Trial 3: VL NonPreEmphasis Image


Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 67.80 mV/div | -9.800 mV |

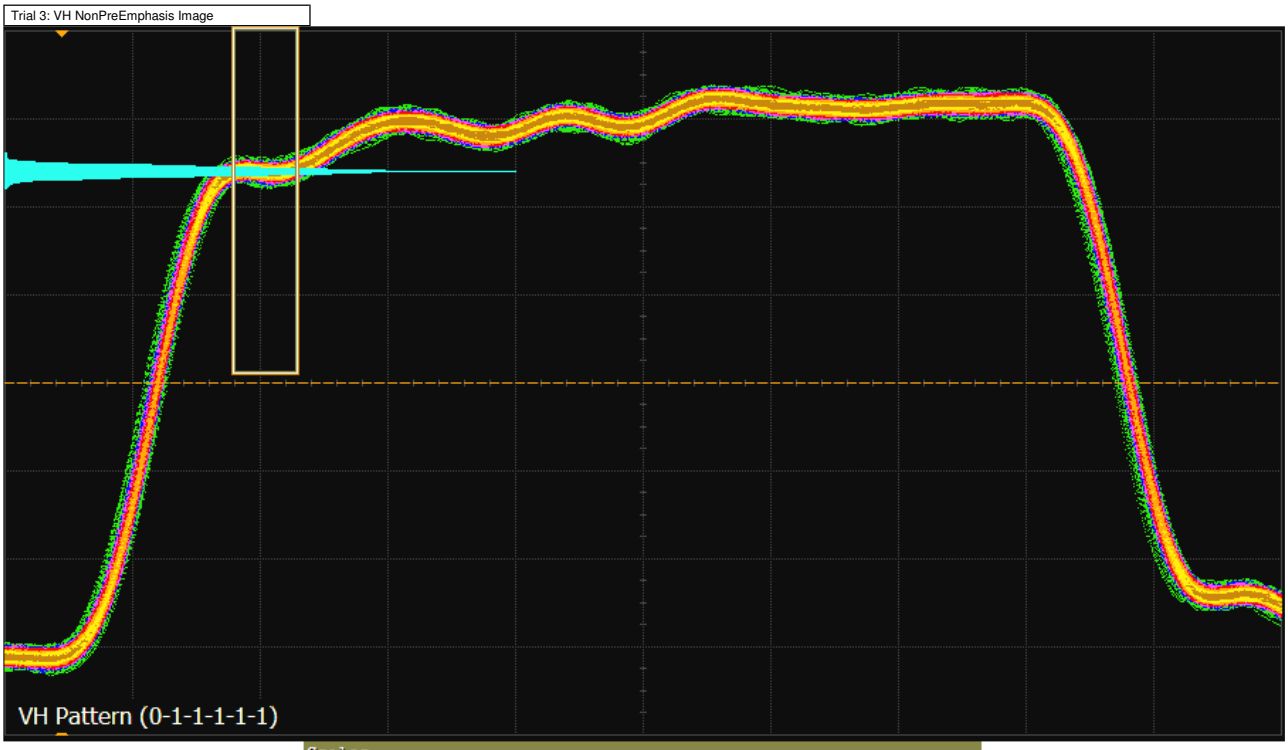
Trial 3: VL PreEmphasis Image



Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 81.60 mV/div | -10.40 mV |

Trial 3: VH NonPreEmphasis Image

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## Lane 0 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 2)

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

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

**Pass Limits:** >= 708 m **Non-Transition Voltage Range** 744 m

**Result Details**

**VSwing Non-Transition Bit(Pre-emphasis 0)** 789.302 mV **VSwing Non-Transition Bit(Pre-emphasis 1)** 587.262 mV **VSwing Non-Transition Bit(Pre-emphasis 2)** (no value)

**VSwing Non-Transition Bit(Pre-emphasis 3)** (no value) **VSwing Non-Transition Bit(Max)** 587.262 mV **VSwing Non-Transition Bit(Min)** 587.262 mV **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 1 **SSC** SSC Disabled **PostCursor2** Level 0

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## Lane 1 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 2)

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

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

**Pass Limits:** >= 708 m **Non-Transition Voltage Range** 1.134

**Result Details**

**VSwing Non-Transition Bit(Pre-emphasis 0)** 785.031 mV **VSwing Non-Transition Bit(Pre-emphasis 1)** 890.581 mV **VSwing Non-Transition Bit(Pre-emphasis 2)** (no value)

**VSwing Non-Transition Bit(Pre-emphasis 3)** (no value) **VSwing Non-Transition Bit(Max)** 890.581 mV **VSwing Non-Transition Bit(Min)** 890.581 mV **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 1 **SSC** SSC Disabled **PostCursor2** Level 0

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## Lane 2 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 2)

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

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

**Pass Limits:** >= 708 m **Non-Transition Voltage Range** 900 m

**Result Details**

**VSwing Non-Transition Bit(Pre-emphasis 0)** 800.097 mV **VSwing Non-Transition Bit(Pre-emphasis 1)** 719.750 mV **VSwing Non-Transition Bit(Pre-emphasis 2)** (no value)

**VSwing Non-Transition Bit(Pre-emphasis 3)** (no value) **VSwing Non-Transition Bit(Max)** 719.750 mV **VSwing Non-Transition Bit(Min)** 719.750 mV **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 1 **SSC** SSC Disabled **PostCursor2** Level 0

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## Lane 3 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 2)

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

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

**Pass Limits:** >= 708 m **Non-Transition Voltage Range** 1.124

**Result Details**

**VSwing Non-Transition Bit(Pre-emphasis 0)** 794.263 mV **VSwing Non-Transition Bit(Pre-emphasis 1)** 892.722 mV **VSwing Non-Transition Bit(Pre-emphasis 2)** (no value)

**VSwing Non-Transition Bit(Pre-emphasis 3)** (no value) **VSwing Non-Transition Bit(Max)** 892.722 mV **VSwing Non-Transition Bit(Min)** 892.722 mV **BitRate** 5.4 Gbps **Level** Swing 2

**PreEmphasis** Pre-emphasis 1 **SSC** SSC Disabled **PostCursor2** Level 0

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## Lane 0 - PLTPAT - 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.

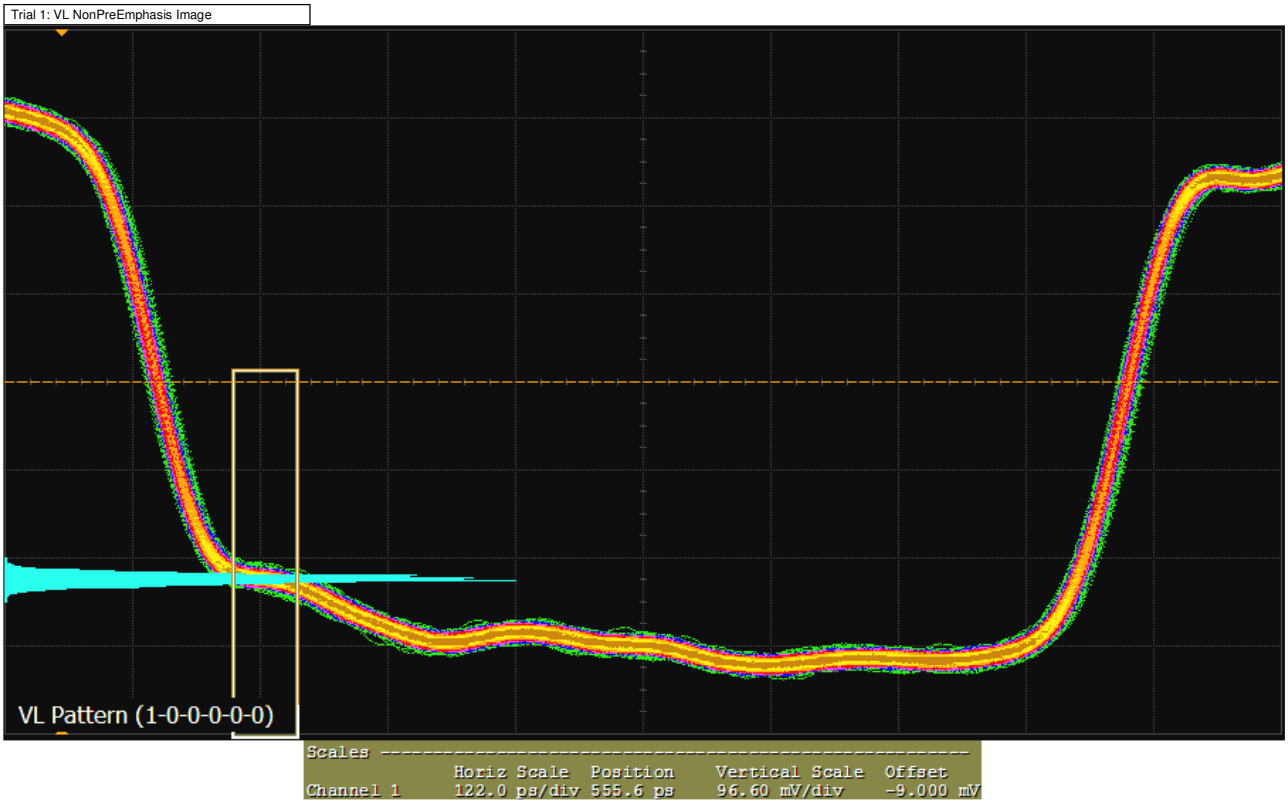
**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 2) - PreEmphasis(Pre-emphasis 1) (Worst of 2 Trials)** -2.523 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

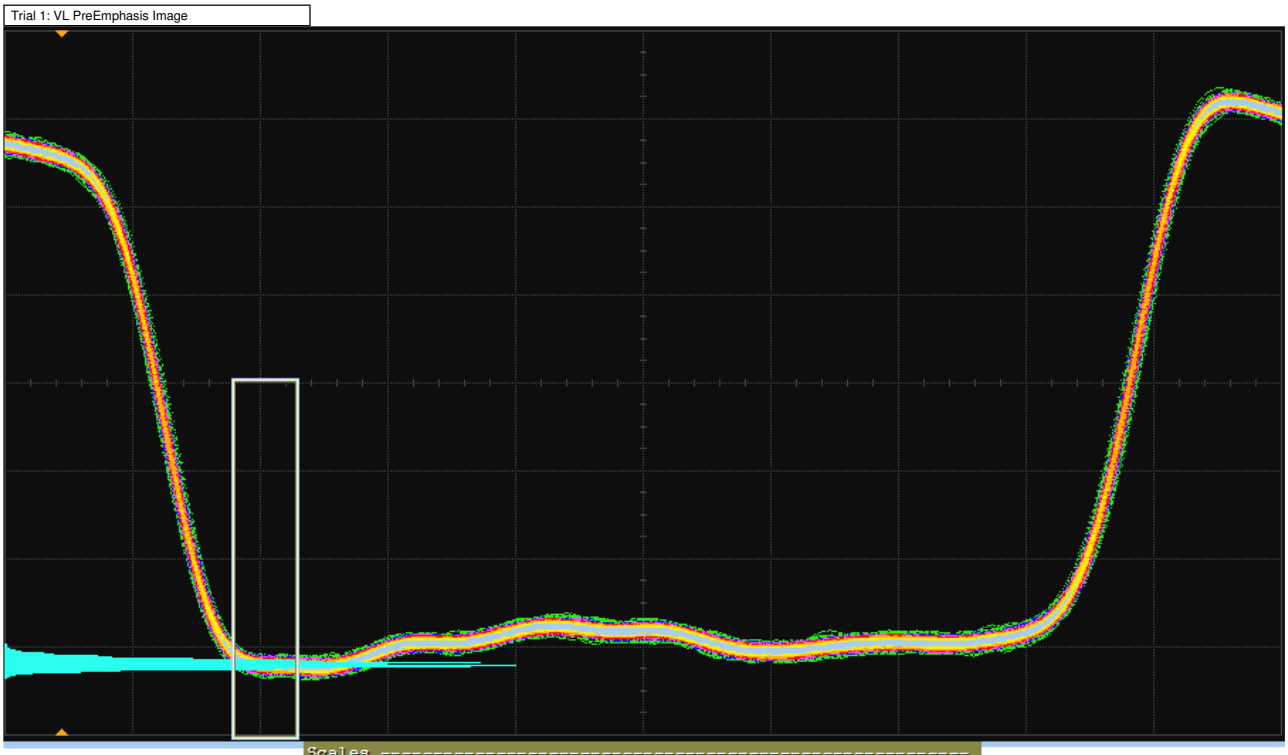
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-2.456 dB* | *-253.5 %* | | | | | | | | | | | | | |
| | *StdDev* | *93.52 mdB* | *5.878 %* | | | | | | | | | | | | | |
| | *Range* | *132.3 mdB* | *8.313 %* | | | | | | | | | | | | | |
| | *Min* | *-2.523 dB* | *-257.7 %* | | | | | | | | | | | | | |
| | *Max* | *-2.390 dB* | *-249.4 %* | | | | | | | | | | | | | |
| | *Sum* | *-4.913 dB* | *-507.1 %* | | | | | | | | | | | | | |
| ✗ | Trial 1 (Worst) | -2.523 dB | **-257.7%** | (See image) | (See image) | (See image) | (See image) | 1000 | 750.188 mV | 663.263 mV | 1.070 dB | 5.4 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✗ | Trial 2 | -2.390 dB | **-249.4%** | (See image) | (See image) | (See image) | (See image) | 1000 | 537.010 mV | 474.745 mV | 1.070 dB | 5.4 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image

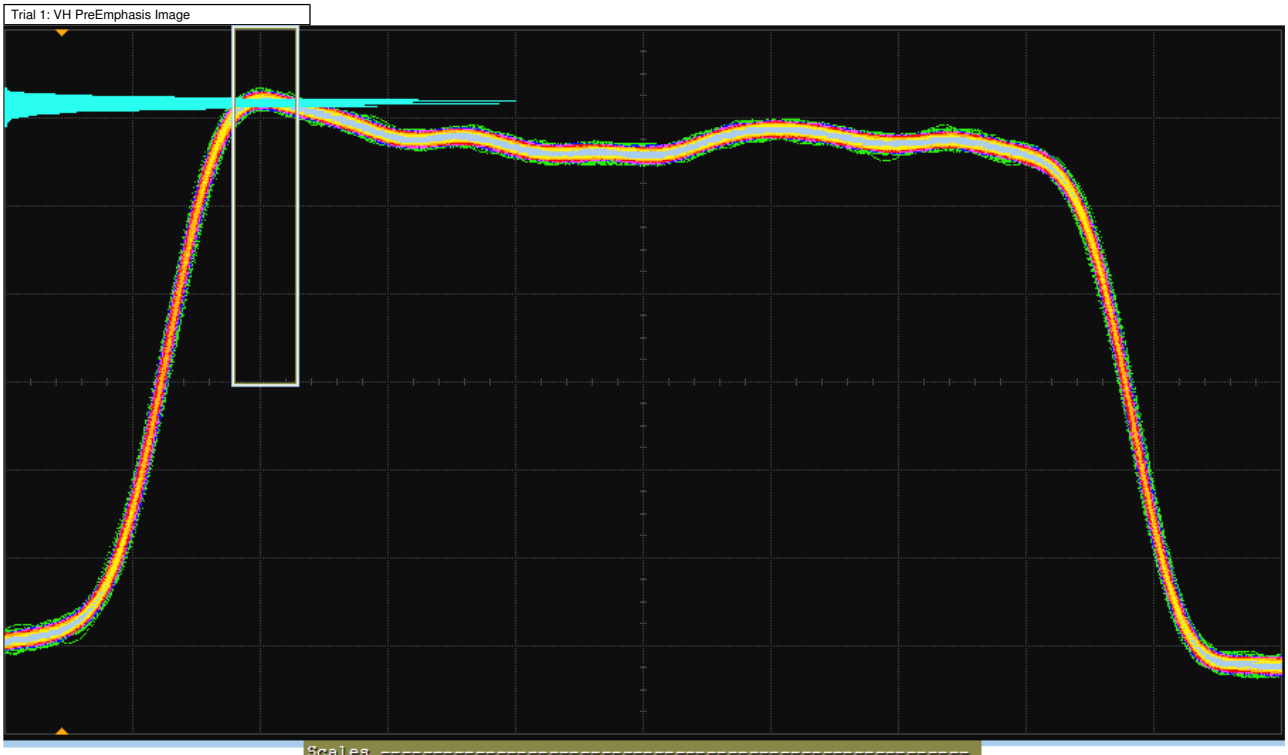


Trial 1: VL PreEmphasis Image



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 110.0 mV/div | -8.000 mV |

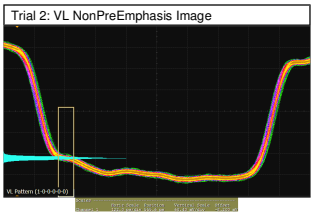
Trial 1: VH PreEmphasis Image



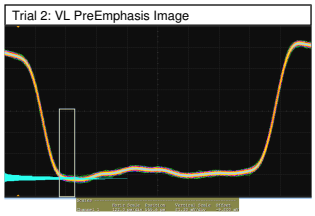
| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 110.0 mV/div | -8.000 mV |

**Trial 2**

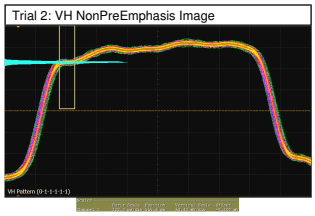
Trial 2: VL NonPreEmphasis Image



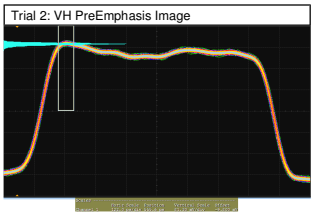
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



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## Lane 1 - PLTPAT - 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: Pass

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

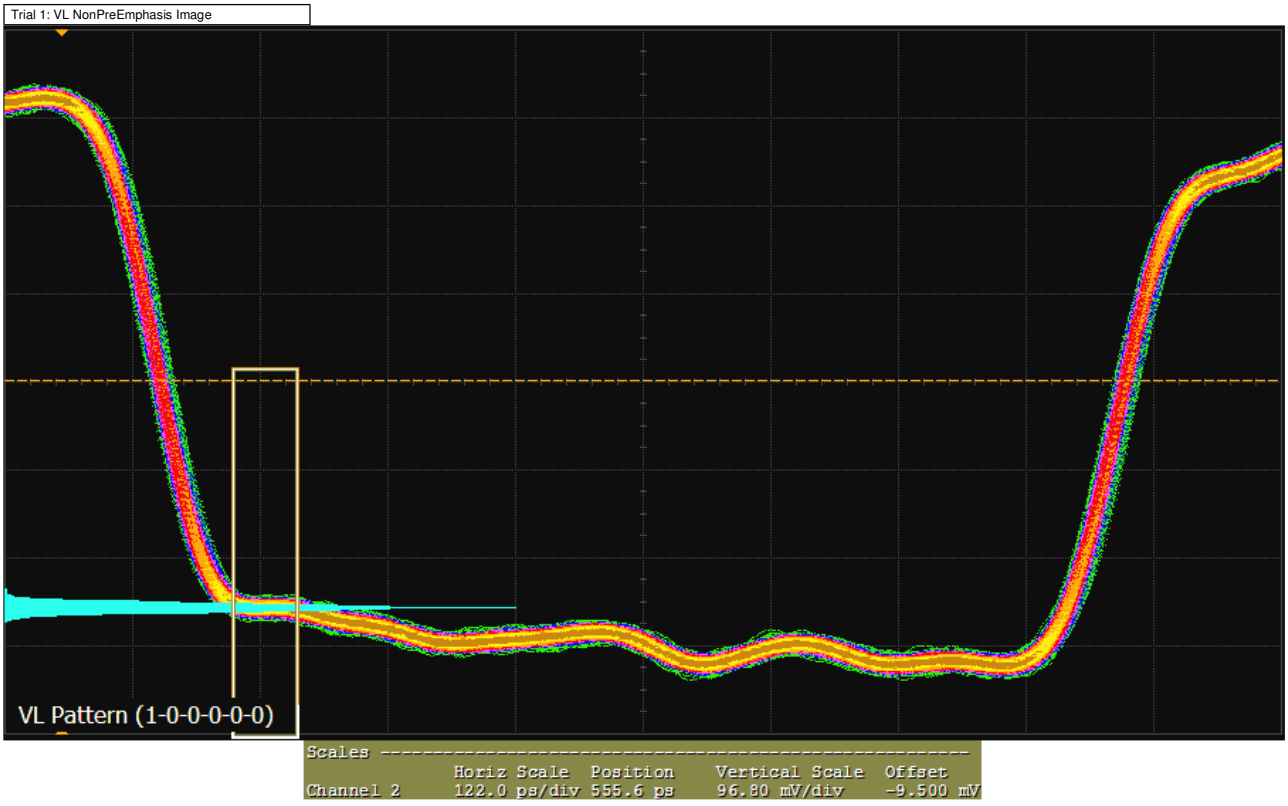
**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 2) - PreEmphasis(Pre-emphasis 1) (Worst of 2 Trials)** 3.337 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

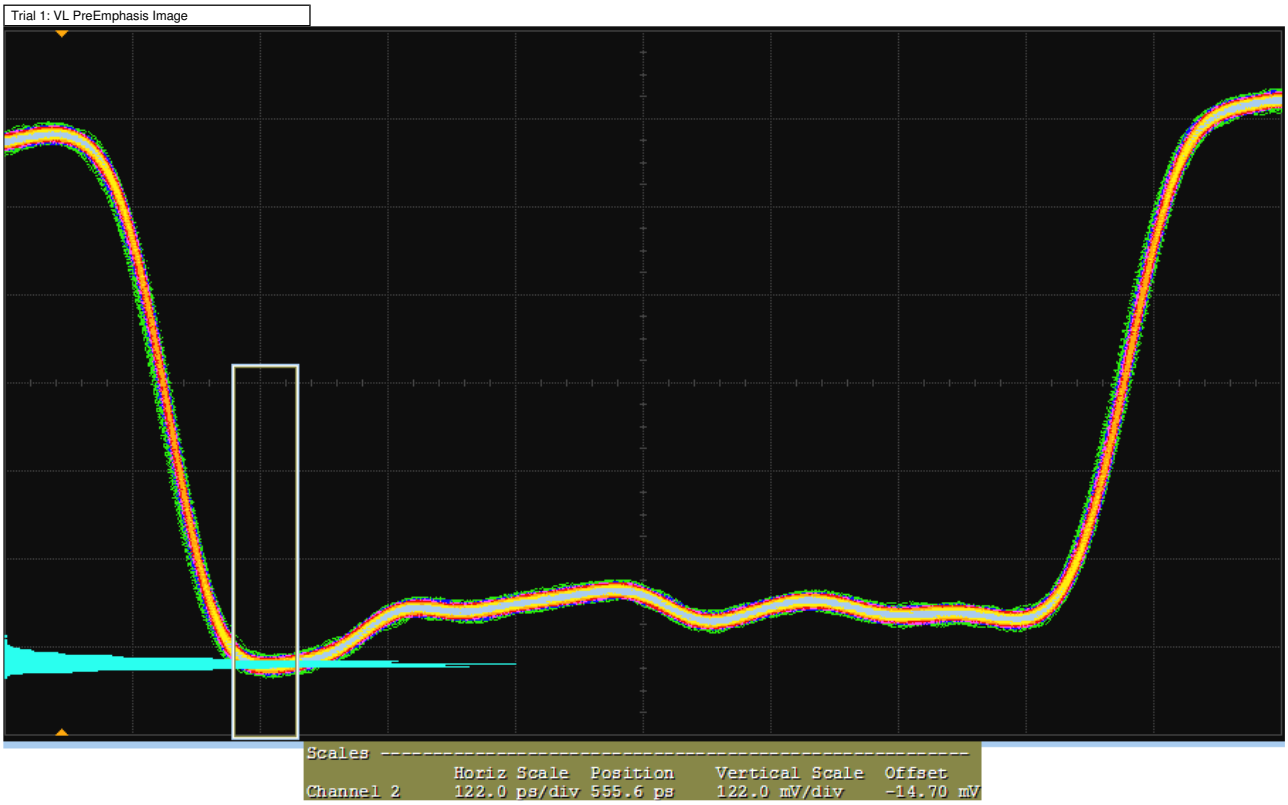
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *3.581 dB* | *123.8 %* | | | | | | | | | | | | | |
| | *StdDev* | *345.2 mdB* | *21.57 %* | | | | | | | | | | | | | |
| | *Range* | *488.1 mdB* | *30.50 %* | | | | | | | | | | | | | |
| | *Min* | *3.337 dB* | *108.6 %* | | | | | | | | | | | | | |
| | *Max* | *3.825 dB* | *139.1 %* | | | | | | | | | | | | | |
| | *Sum* | *7.161 dB* | *247.6 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 3.337 dB | 108.6% | (See image) | (See image) | (See image) | (See image) | 1000 | 804.647 mV | 668.536 mV | 1.610 dB | 5.4 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 3.825 dB | 139.1% | (See image) | (See image) | (See image) | (See image) | 1000 | 581.998 mV | 473.588 mV | 1.790 dB | 5.4 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |

**Trial 1**

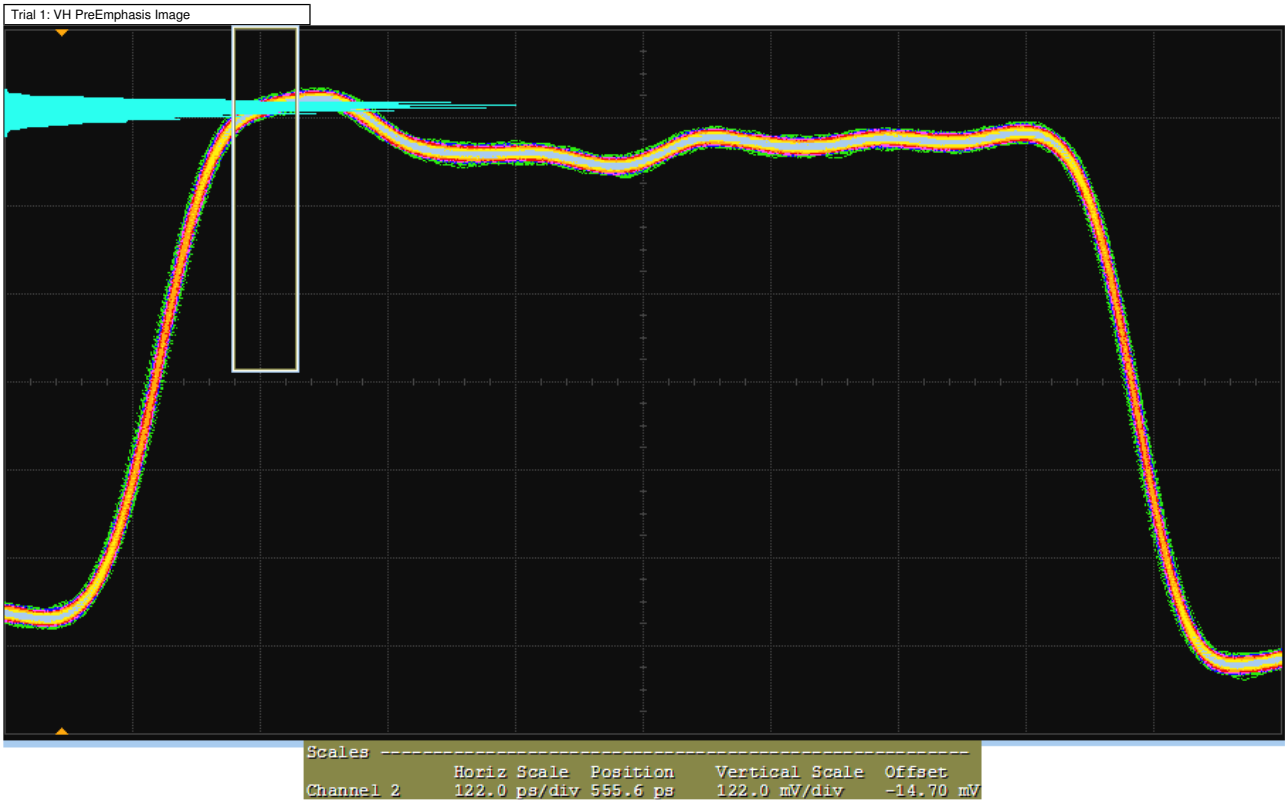
Trial 1: VL NonPreEmphasis Image



Trial 1: VL PreEmphasis Image

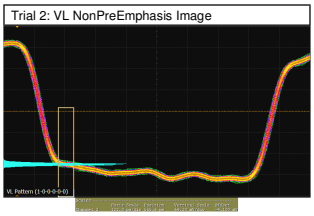



Trial 1: VH PreEmphasis Image

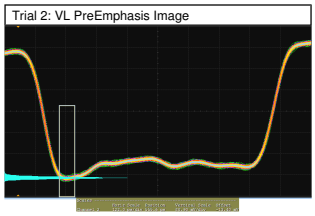



**Trial 2**

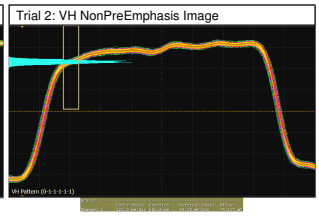
Trial 2: VL NonPreEmphasis Image



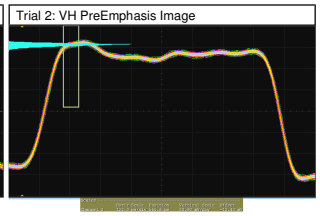
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



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## Lane 2 - PLTPAT - 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: Pass

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

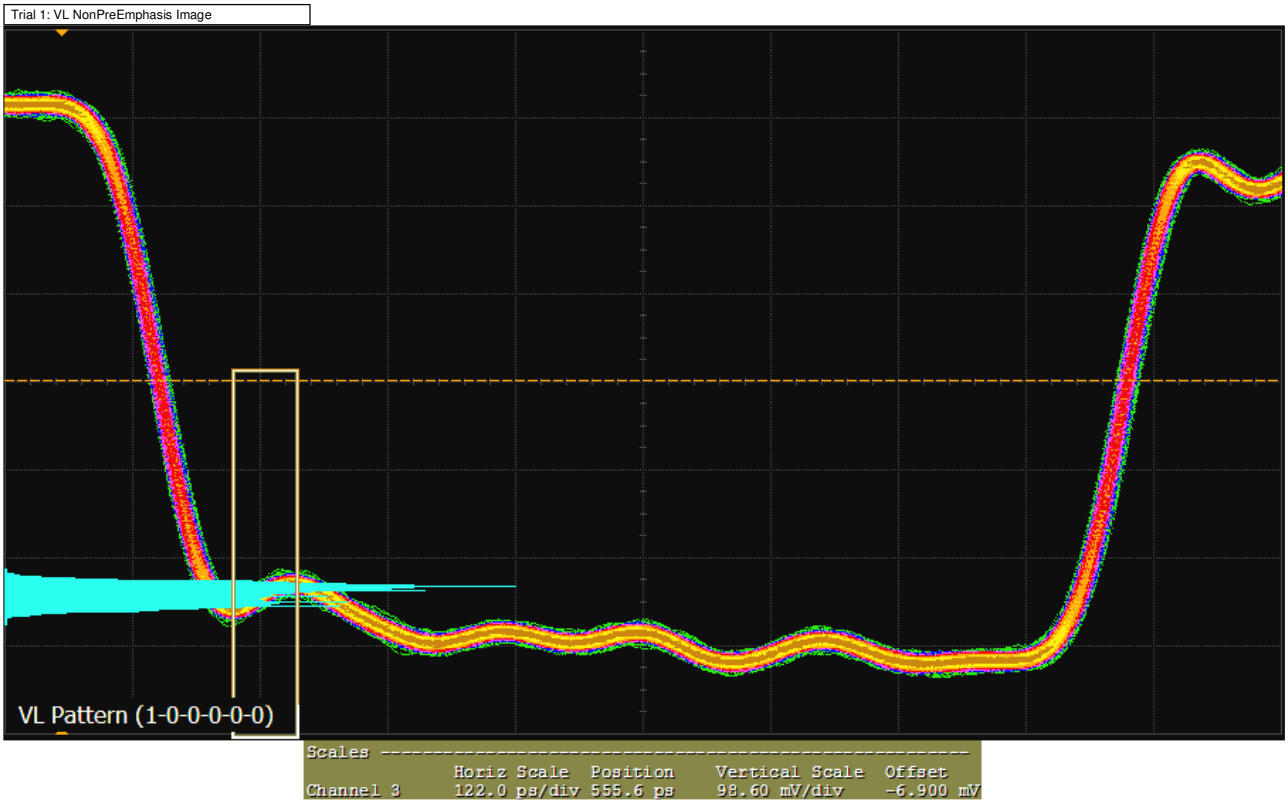
**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 2) - PreEmphasis(Pre-emphasis 1) (Worst of 2 Trials)** 2.109 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

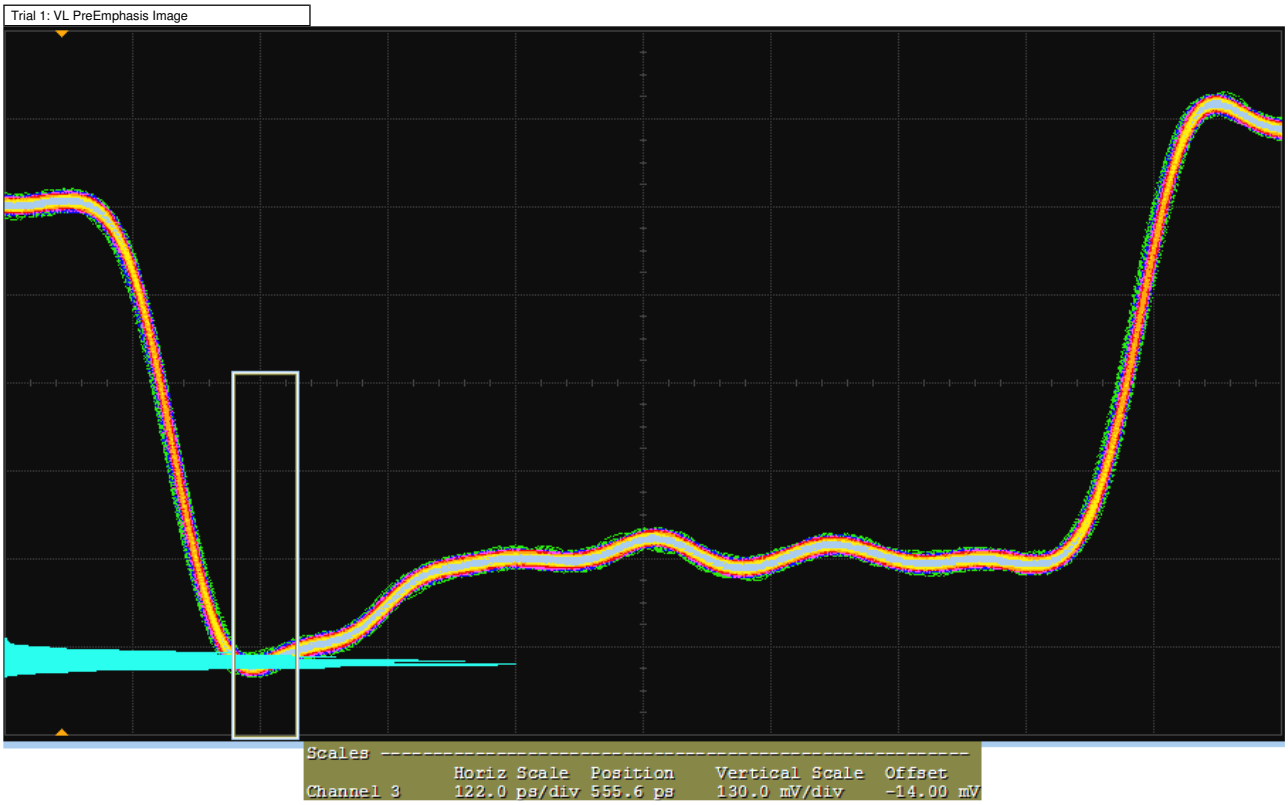
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *2.450 dB* | *53.09 %* | | | | | | | | | | | | | |
| | *StdDev* | *481.5 mdB* | *30.10 %* | | | | | | | | | | | | | |
| | *Range* | *681.0 mdB* | *42.56 %* | | | | | | | | | | | | | |
| | *Min* | *2.109 dB* | *31.81 %* | | | | | | | | | | | | | |
| | *Max* | *2.790 dB* | *74.38 %* | | | | | | | | | | | | | |
| | *Sum* | *4.899 dB* | *106.2 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 2.109 dB | 31.8% | (See image) | (See image) | (See image) | (See image) | 1000 | 886.090 mV | 562.977 mV | 3.940 dB | 5.4 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 2.790 dB | 74.4% | (See image) | (See image) | (See image) | (See image) | 1000 | 676.766 mV | 406.783 mV | 4.422 dB | 5.4 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image



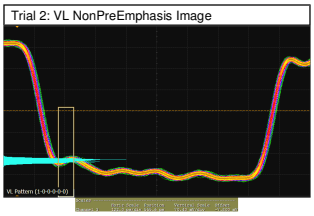
Trial 1: VL PreEmphasis Image



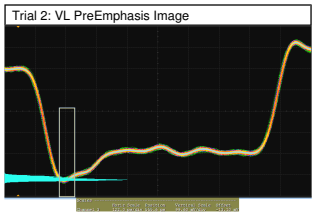

Trial 1: VH PreEmphasis Image


**Trial 2**

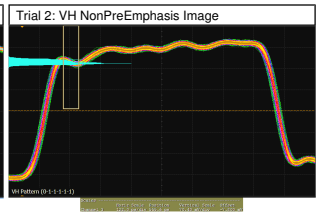
Trial 2: VL NonPreEmphasis Image



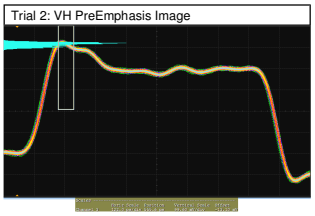
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



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## Lane 3 - PLTPAT - 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.

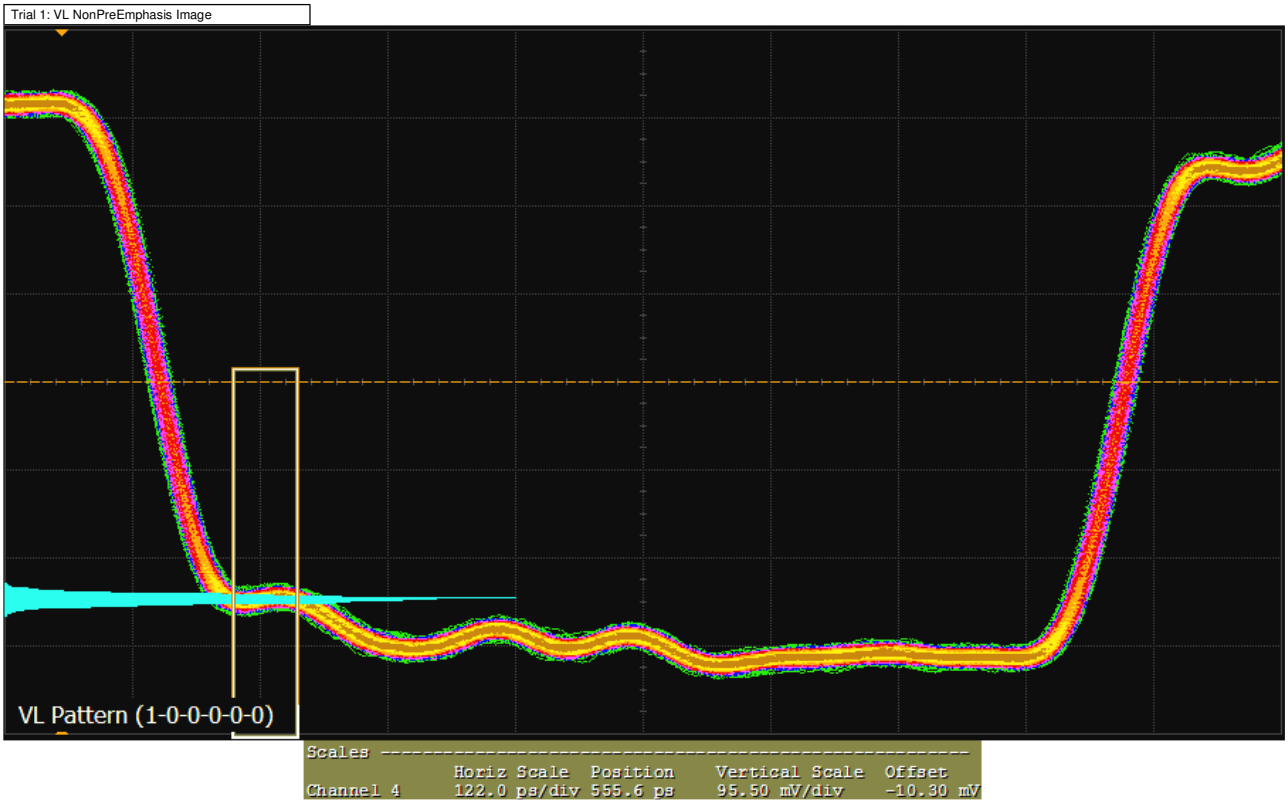
**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 2) - PreEmphasis(Pre-emphasis 1) (Worst of 2 Trials)** 155 mdB | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

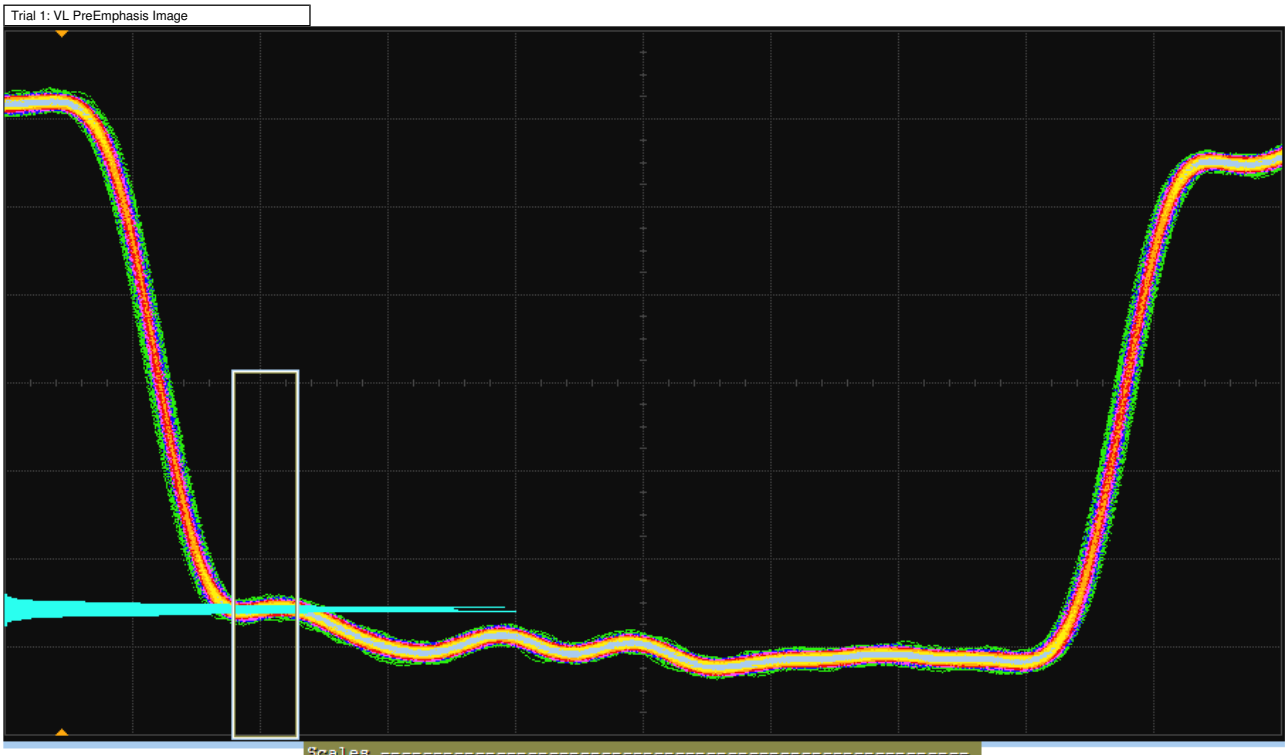
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *221.3 mdB* | *-86.16 %* | | | | | | | | | | | | | |
| | *StdDev* | *93.80 mdB* | *5.878 %* | | | | | | | | | | | | | |
| | *Range* | *132.7 mdB* | *8.313 %* | | | | | | | | | | | | | |
| | *Min* | *155.0 mdB* | *-90.31 %* | | | | | | | | | | | | | |
| | *Max* | *287.7 mdB* | *-82.00 %* | | | | | | | | | | | | | |
| | *Sum* | *442.7 mdB* | *-172.3 %* | | | | | | | | | | | | | |
| ✗ | Trial 1 (Worst) | 155 mdB | **-90.3%** | (See image) | (See image) | (See image) | (See image) | 1000 | 679.317 mV | 827.493 mV | -1.714 dB | 5.4 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✗ | Trial 2 | 288 mdB | **-82.0%** | (See image) | (See image) | (See image) | (See image) | 1000 | 469.560 mV | 578.852 mV | -1.818 dB | 5.4 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |

**Trial 1**

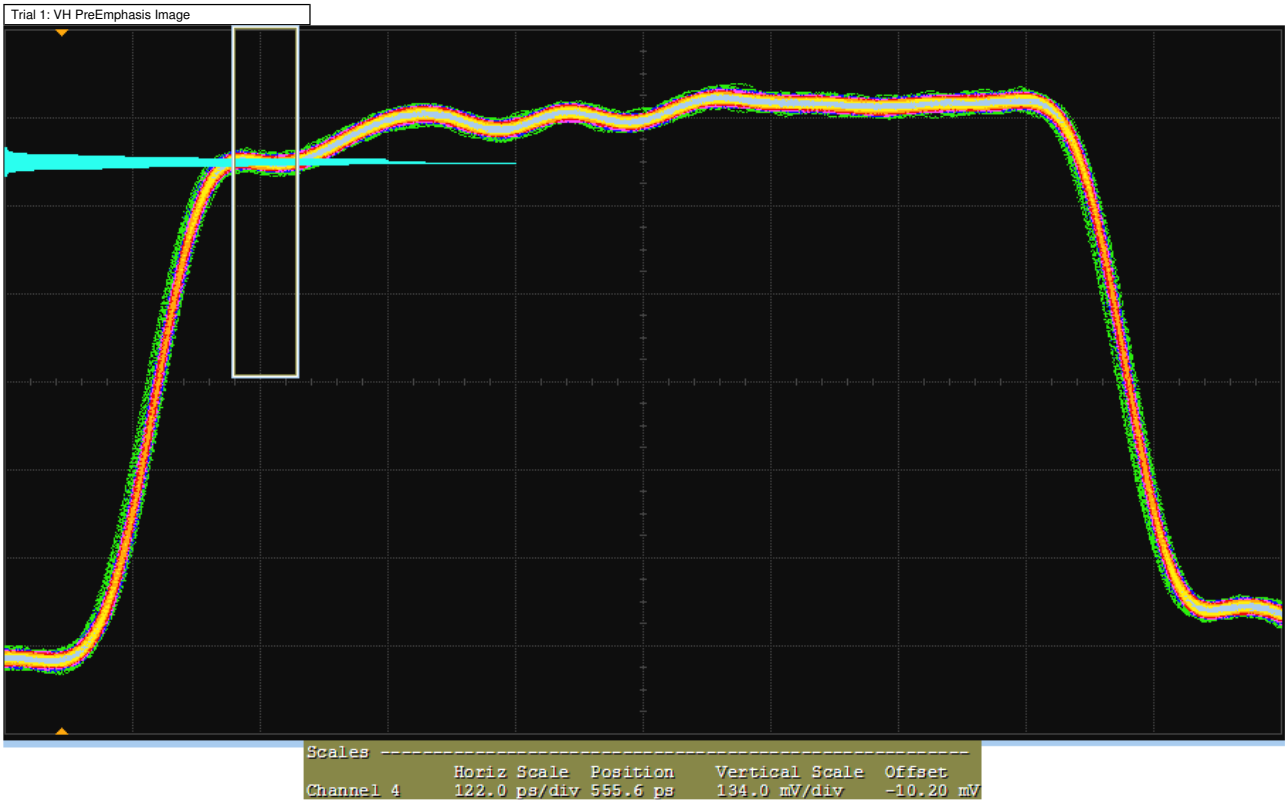
Trial 1: VL NonPreEmphasis Image



Trial 1: VL PreEmphasis Image

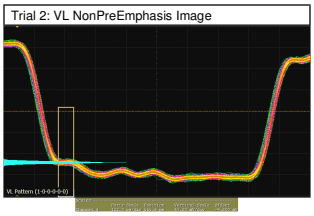



Trial 1: VH PreEmphasis Image

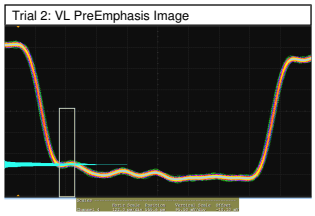



**Trial 2**

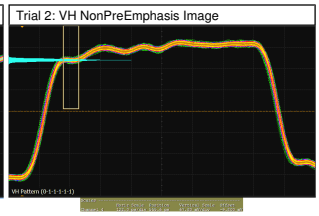
Trial 2: VL NonPreEmphasis Image



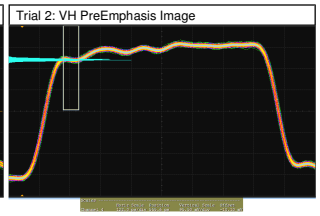
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



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✓ Lane 0 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 1)

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

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

**Pass Limits:** >= 708 m **Non-Transition Voltage Range** 835 m

**Result Details**

**VSwing Non-Transition Bit(Pre-emphasis 0)** 578.674 mV **VSwing Non-Transition Bit(Pre-emphasis 1)** 483.377 mV **VSwing Non-Transition Bit(Pre-emphasis 2)** 663.263 mV

**VSwing Non-Transition Bit(Pre-emphasis 3)** (no value) **VSwing Non-Transition Bit(Max)** 663.263 mV **VSwing Non-Transition Bit(Min)** 483.377 mV **BitRate** 5.4 Gbps **Level** Swing 1

**PreEmphasis** Pre-emphasis 2 **SSC** SSC Disabled **PostCursor2** Level 0

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## Lane 1 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 1)

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

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

**Pass Limits:** >= 708 m **Non-Transition Voltage Range** 1.151

**Result Details**

**VSwing Non-Transition Bit(Pre-emphasis 0)** 581.046 mV **VSwing Non-Transition Bit(Pre-emphasis 1)** 713.255 mV **VSwing Non-Transition Bit(Pre-emphasis 2)** 668.536 mV

**VSwing Non-Transition Bit(Pre-emphasis 3)** (no value) **VSwing Non-Transition Bit(Max)** 713.255 mV **VSwing Non-Transition Bit(Min)** 668.536 mV **BitRate** 5.4 Gbps **Level** Swing 1

**PreEmphasis** Pre-emphasis 2 **SSC** SSC Disabled **PostCursor2** Level 0

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## Lane 2 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 1)

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

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

**Pass Limits:** >= 708 m **Non-Transition Voltage Range** 947 m

**Result Details**

**VSwing Non-Transition Bit(Pre-emphasis 0)** 594.375 mV **VSwing Non-Transition Bit(Pre-emphasis 1)** 583.012 mV **VSwing Non-Transition Bit(Pre-emphasis 2)** 562.977 mV

**VSwing Non-Transition Bit(Pre-emphasis 3)** (no value) **VSwing Non-Transition Bit(Max)** 583.012 mV **VSwing Non-Transition Bit(Min)** 562.977 mV **BitRate** 5.4 Gbps **Level** Swing 1

**PreEmphasis** Pre-emphasis 2 **SSC** SSC Disabled **PostCursor2** Level 0

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## Lane 3 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 1)

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

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

**Pass Limits:** >= 708 m **Non-Transition Voltage Range** 1.229

**Result Details**

**VSwing Non-Transition Bit(Pre-emphasis 0)** 579.270 mV **VSwing Non-Transition Bit(Pre-emphasis 1)** 712.006 mV **VSwing Non-Transition Bit(Pre-emphasis 2)** 827.493 mV

**VSwing Non-Transition Bit(Pre-emphasis 3)** (no value) **VSwing Non-Transition Bit(Max)** 827.493 mV **VSwing Non-Transition Bit(Min)** 712.006 mV **BitRate** 5.4 Gbps **Level** Swing 1

**PreEmphasis** Pre-emphasis 2 **SSC** SSC Disabled **PostCursor2** Level 0

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## Lane 0 - D10.2 Total Jitter Test with No Cable Model (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Total Jitter with No Cable Model (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 400.000 mUI **D10.2 Total Jitter (TP3_EQ No Cable)** 104.600 mUI

**Result Details**

**Jitter Separation Image** (See image) **Edges** 1.00000000 M **Total Jitter (TJ)** 104.6 mUI **Total Jitter (TJ) in ps** 19.3704 ps **Periodic Jitter (PJ rms)** 4.1 mUI **Periodic Jitter (PJ p-p)** 12.9 mUI

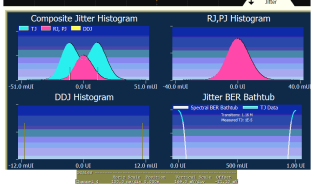
**Deterministic Jitter (DJ)** 33.7 mUI **Random Jitter (RJ)** 5.8 mUI **ISI Jitter (ISI)** 0.0000 UI **Data Dependent Jitter (DDJ)** 22.8 mUI **Bit Error Rate (BER)** E9 **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 0

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 1 - D10.2 Total Jitter Test with No Cable Model (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Total Jitter with No Cable Model (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 400.000 mUI **D10.2 Total Jitter (TP3_EQ No Cable)** 85.200 mUI

**Result Details**

**Jitter Separation Image** (See image) **Edges** 1.00000000 M **Total Jitter (TJ)** 85.2 mUI **Total Jitter (TJ) in ps** 15.7777 ps **Periodic Jitter (PJ rms)** 3.9 mUI **Periodic Jitter (PJ p-p)** 15.1 mUI

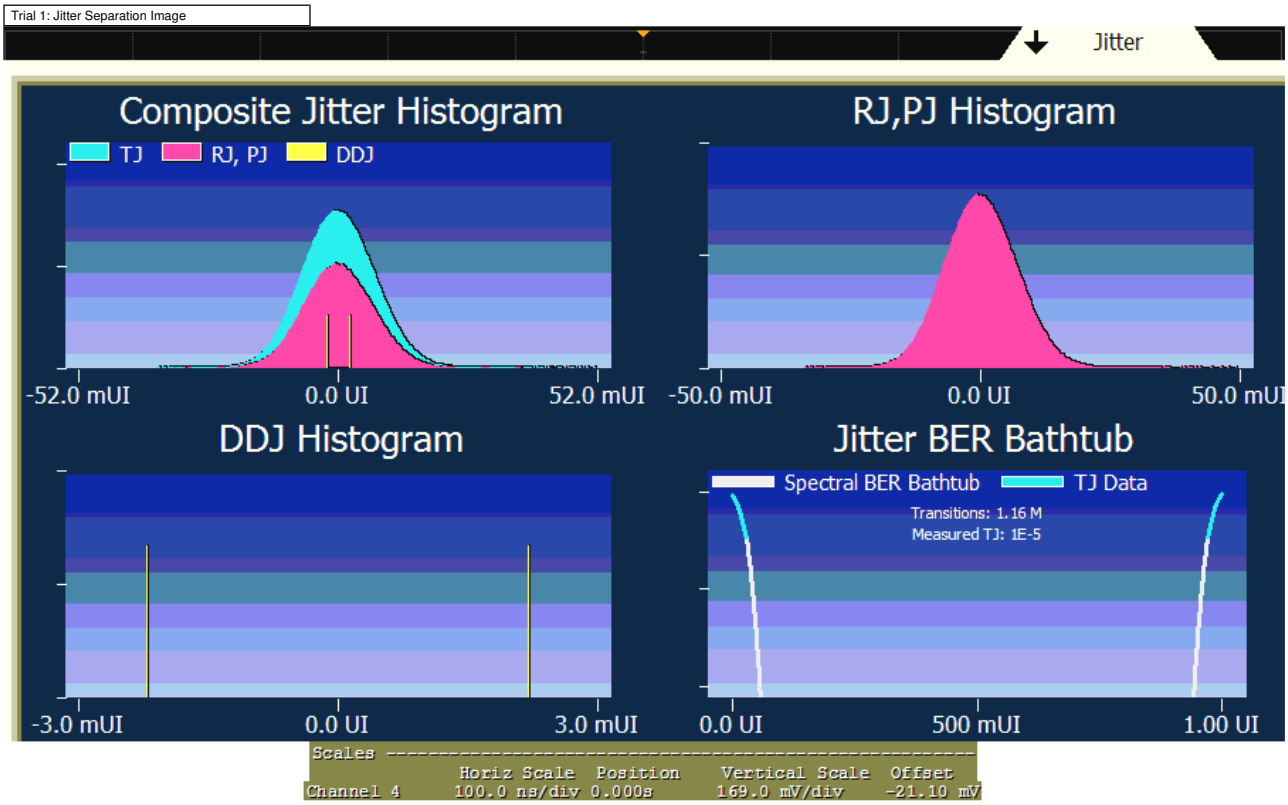
**Deterministic Jitter (DJ)** 17.1 mUI **Random Jitter (RJ)** 5.6 mUI **ISI Jitter (ISI)** 0.0000 UI **Data Dependent Jitter (DDJ)** 4.4 mUI **Bit Error Rate (BER)** E9 **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 0

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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✓ Lane 2 - D10.2 Total Jitter Test with No Cable Model (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Total Jitter with No Cable Model (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

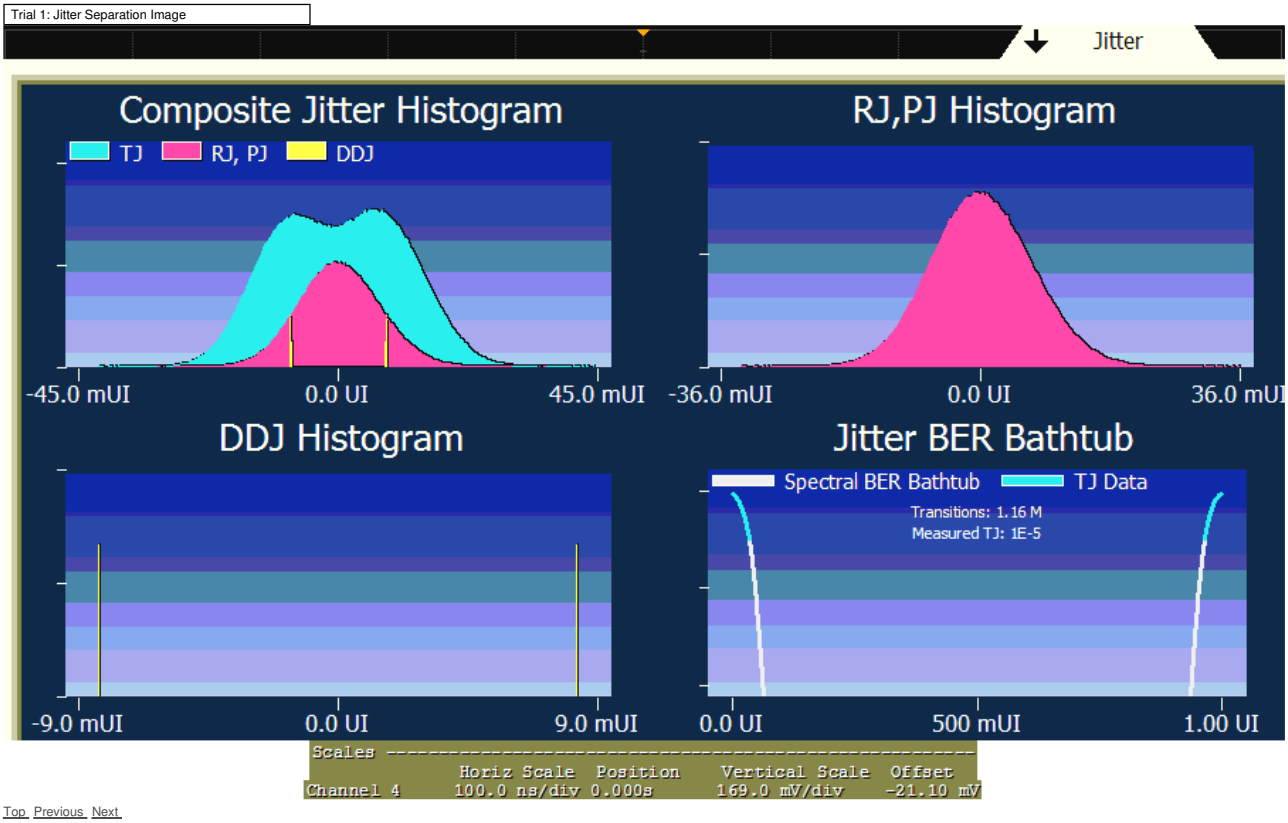
**Pass Limits:** <= 400.000 mUI | **Lane 2 D10.2 Total Jitter (TP3_EQ No Cable)** 96.300 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.00000000 M | **Total Jitter (TJ)** 96.3 mUI | **Total Jitter (TJ) in ps** 17.8333 ps | **Periodic Jitter (PJ rms)** 4.2 mUI | **Periodic Jitter (PJ p-p)** 13.4 mUI | **Deterministic Jitter (DJ)** 28.1 mUI | **Random Jitter (RJ)** 5.6 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 16.6 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 3 - D10.2 Total Jitter Test with No Cable Model (TP3_EQ)

Test Summary: Pass Test Description: To evaluate the Total Jitter with No Cable Model (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

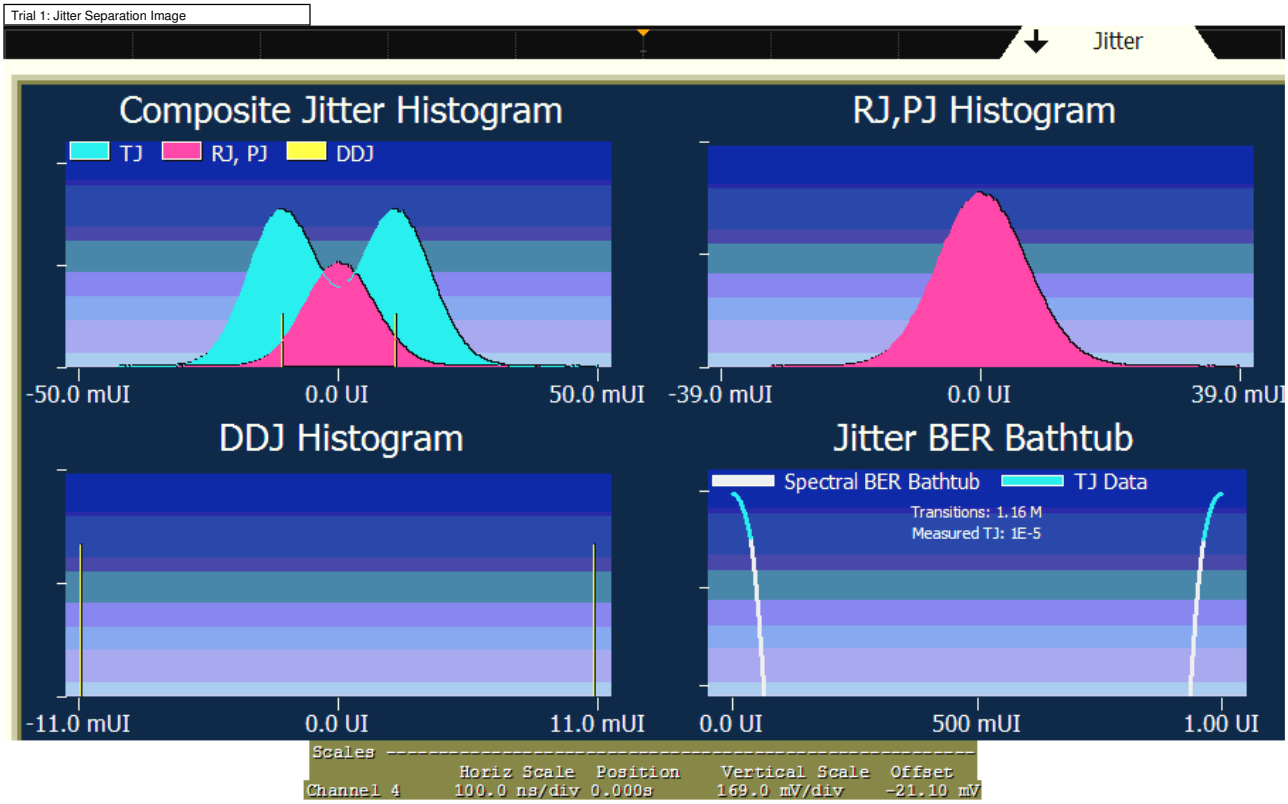
**Pass Limits:** <= 400.000 mUI | **D10.2 Total Jitter (TP3_EQ No Cable)** 100.400 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.00000000 M | **Total Jitter (TJ)** 100.4 mUI | **Total Jitter (TJ) in ps** 18.5926 ps | **Periodic Jitter (PJ rms)** 3.8 mUI | **Periodic Jitter (PJ p-p)** 13.1 mUI | **Deterministic Jitter (DJ)** 33.0 mUI | **Random Jitter (RJ)** 5.5 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 21.9 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 0 - D10.2 Deterministic Jitter with No Cable (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Deterministic Jitter with No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

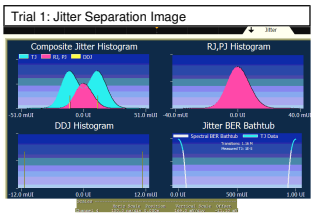
**Pass Limits:** <= 250.000 mUI | **D10.2 Deterministic Jitter (TP3_EQ No Cable)** 33.700 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 104.6 mUI | **Total Jitter (TJ) in ps** 19.3704 ps | **Periodic Jitter (PJ rms)** 4.1 mUI | **Periodic Jitter (PJ p-p)** 12.9 mUI | **Deterministic Jitter (DJ)** 33.7 mUI | **Random Jitter (RJ)** 5.8 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 22.8 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image



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## Lane 1 - D10.2 Deterministic Jitter with No Cable (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Deterministic Jitter with No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

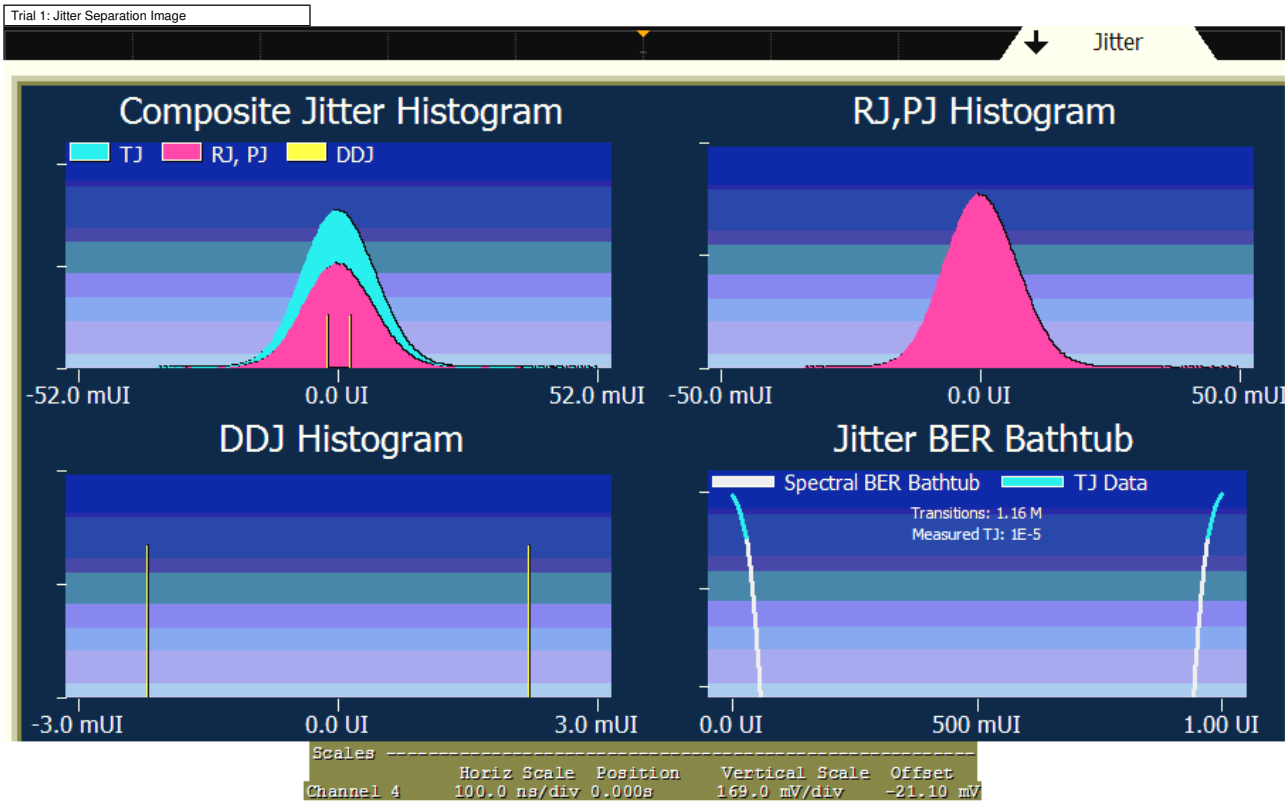
**Pass Limits:** <= 250.000 mUI | **D10.2 Deterministic Jitter (TP3_EQ No Cable)** 17.100 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 85.2 mUI | **Total Jitter (TJ) in ps** 15.7777 ps | **Periodic Jitter (PJ rms)** 3.9 mUI | **Periodic Jitter (PJ p-p)** 15.1 mUI | **Deterministic Jitter (DJ)** 17.1 mUI | **Random Jitter (RJ)** 5.6 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 4.4 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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✓ Lane 2 - D10.2 Deterministic Jitter with No Cable (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Deterministic Jitter with No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

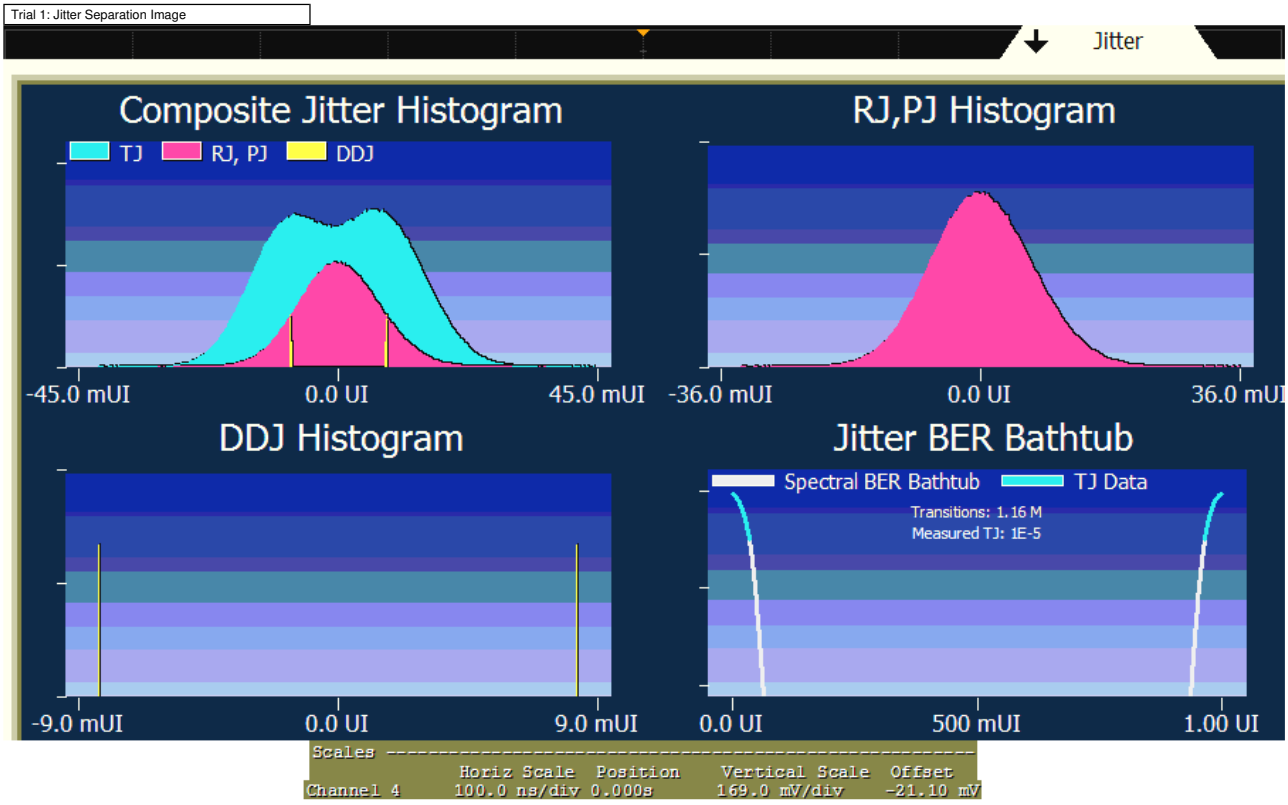
**Pass Limits:** <= 250.000 mUI | **Lane 2 D10.2 Deterministic Jitter (TP3_EQ No Cable)** 28.100 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 96.3 mUI | **Total Jitter (TJ) in ps** 17.8333 ps | **Periodic Jitter (PJ rms)** 4.2 mUI | **Periodic Jitter (PJ p-p)** 13.4 mUI | **Deterministic Jitter (DJ)** 28.1 mUI | **Random Jitter (RJ)** 5.6 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 16.6 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 3 - D10.2 Deterministic Jitter with No Cable (TP3_EQ)

Test Summary: Pass  Test Description: To evaluate the Deterministic Jitter with No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 250.000 mUI | **D10.2 Deterministic Jitter (TP3_EQ No Cable)** 33.000 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 100.4 mUI | **Total Jitter (TJ) in ps** 18.5926 ps | **Periodic Jitter (PJ rms)** 3.8 mUI | **Periodic Jitter (PJ p-p)** 13.1 mUI

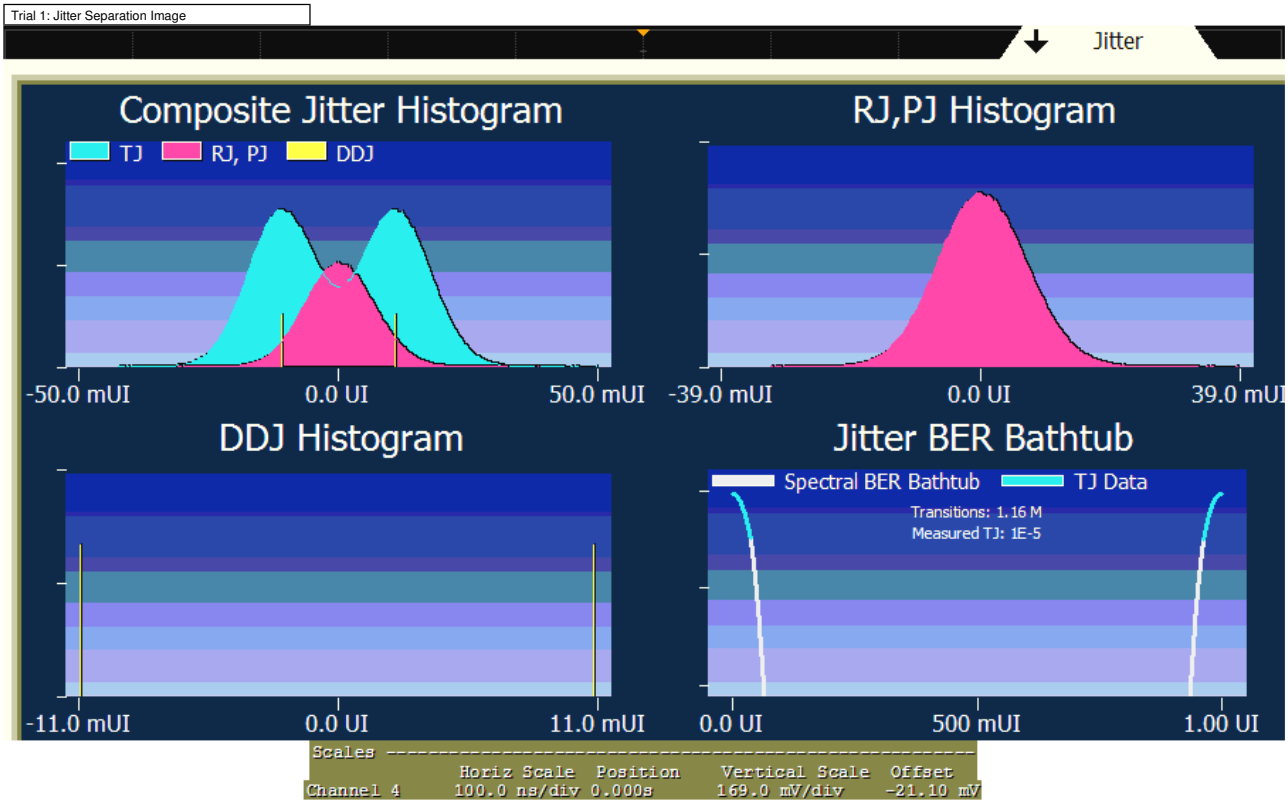
**Deterministic Jitter (DJ)** 33.0 mUI | **Random Jitter (RJ)** 5.5 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 21.9 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance

**Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0

**PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 0 - D10.2 Random Jitter with No Cable (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the Random Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 230.000 mUI | **D10.2 Random Jitter (TP3_EQ No Cable)** 5.800 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 104.6 mUI | **Total Jitter (TJ) in ps** 19.3704 ps | **Periodic Jitter (PJ rms)** 4.1 mUI | **Periodic Jitter (PJ p-p)** 12.9 mUI

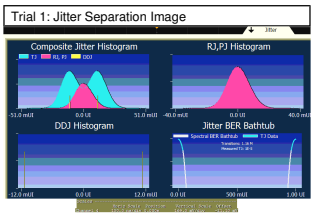
**Deterministic Jitter (DJ)** 33.7 mUI | **Random Jitter (RJ)** 5.8 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 22.8 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance

**Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0

**PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image



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## Lane 1 - D10.2 Random Jitter with No Cable (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the Random Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 230.000 mUI | **D10.2 Random Jitter (TP3_EQ No Cable)** 5.600 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 85.2 mUI | **Total Jitter (TJ) in ps** 15.7777 ps | **Periodic Jitter (PJ rms)** 3.9 mUI | **Periodic Jitter (PJ p-p)** 15.1 mUI

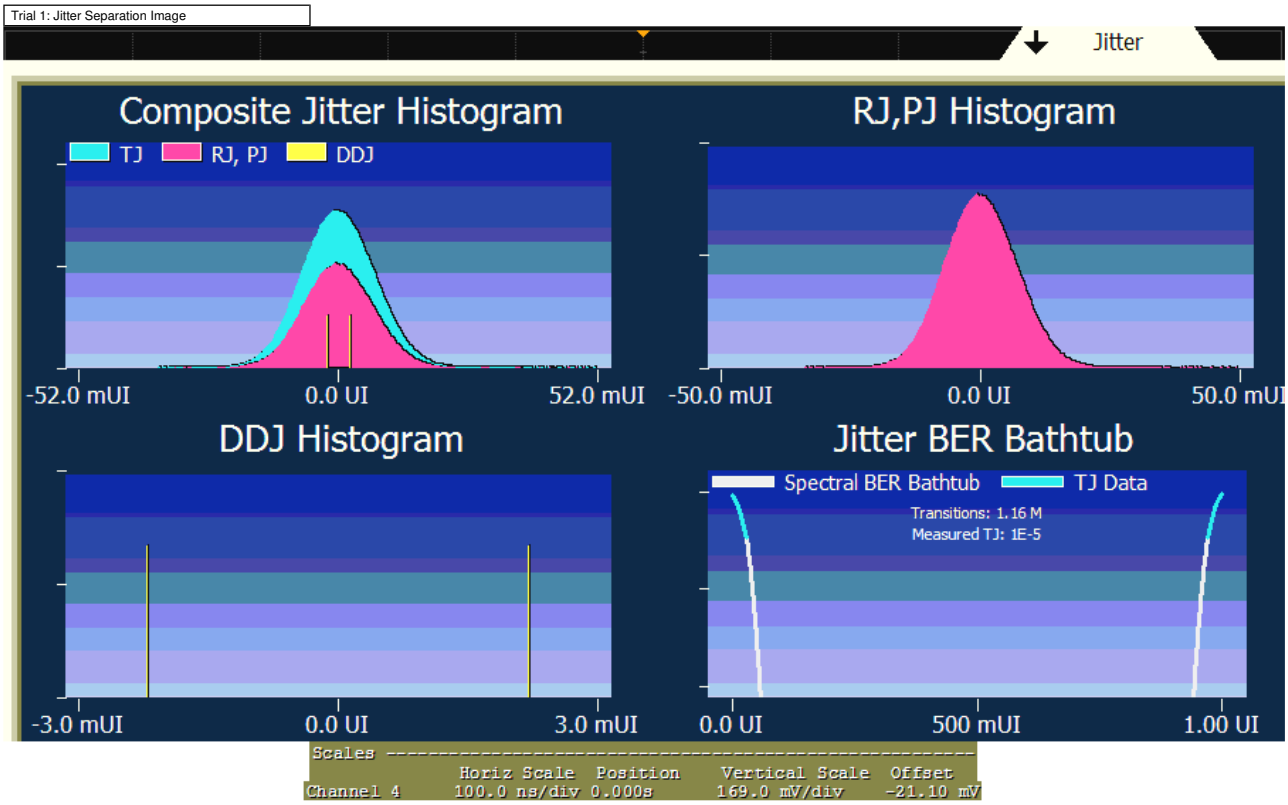
**Deterministic Jitter (DJ)** 17.1 mUI | **Random Jitter (RJ)** 5.6 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 4.4 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance

**Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0

**PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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✓ Lane 2 - D10.2 Random Jitter with No Cable (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Random Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

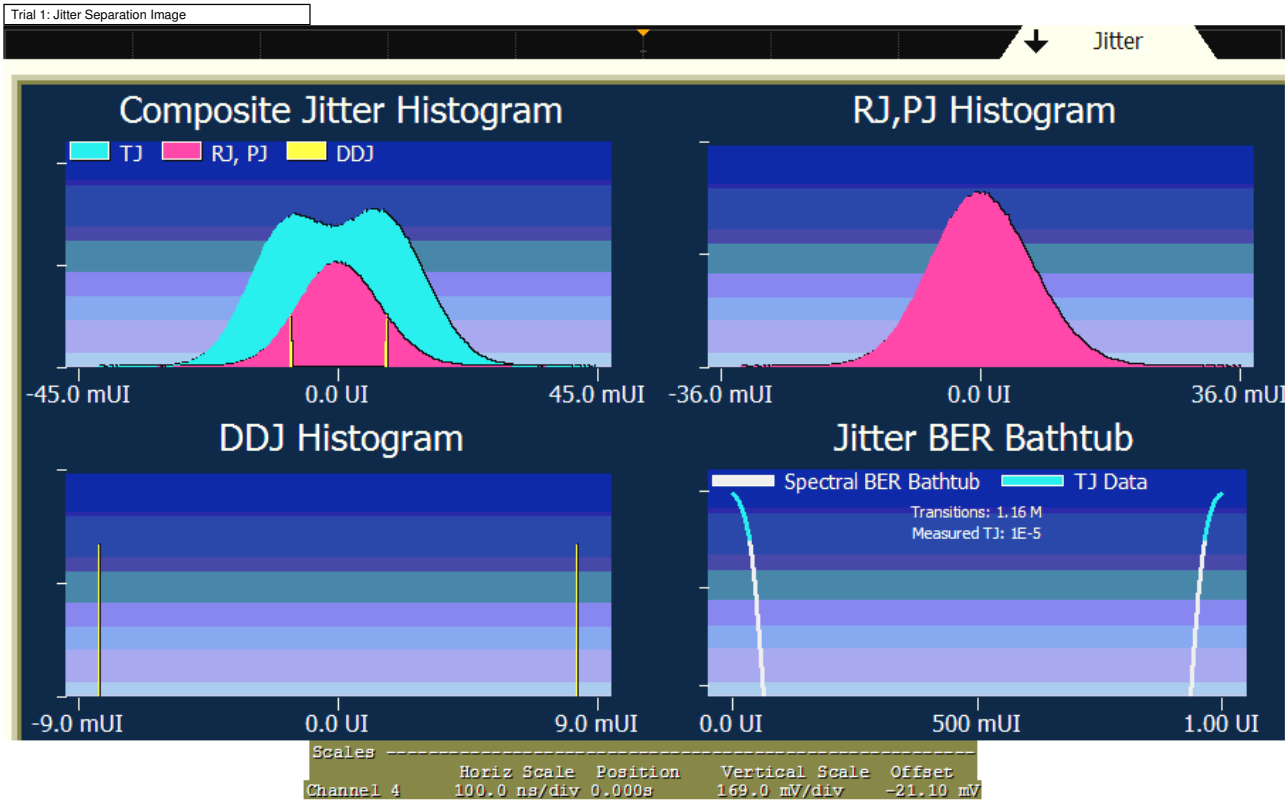
**Pass Limits:** <= 230.000 mUI | **Lane 2 D10.2 Random Jitter (TP3_EQ No Cable)** 5.600 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 96.3 mUI | **Total Jitter (TJ) in ps** 17.8333 ps | **Periodic Jitter (PJ rms)** 4.2 mUI | **Periodic Jitter (PJ p-p)** 13.4 mUI | **Deterministic Jitter (DJ)** 28.1 mUI | **Random Jitter (RJ)** 5.6 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 16.6 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 3 - D10.2 Random Jitter with No Cable (TP3_EQ)

Test Summary: Pass  Test Description: To evaluate the Random Jitter (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

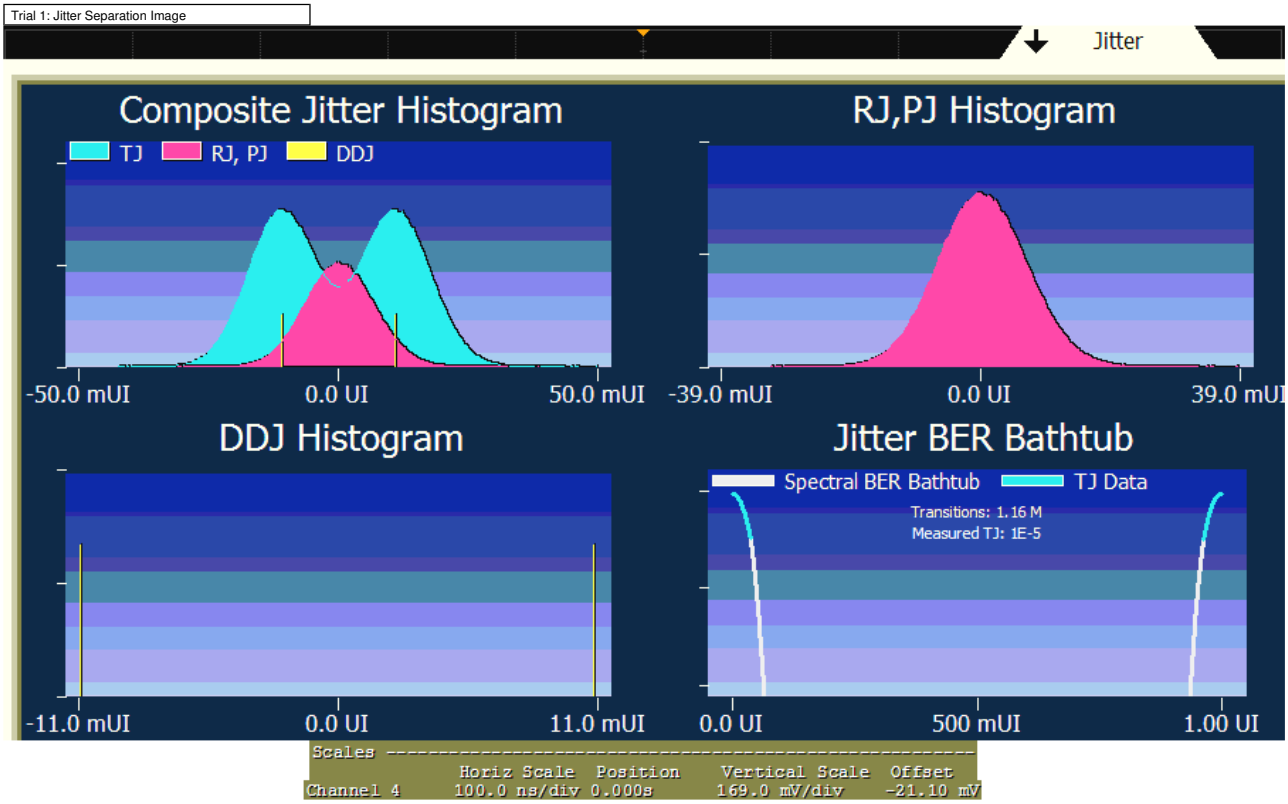
**Pass Limits:** <= 230.000 mUI | **D10.2 Random Jitter (TP3_EQ No Cable)** 5.500 mUI

### Result Details

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 100.4 mUI | **Total Jitter (TJ) in ps** 18.5926 ps | **Periodic Jitter (PJ rms)** 3.8 mUI | **Periodic Jitter (PJ p-p)** 13.1 mUI | **Deterministic Jitter (DJ)** 33.0 mUI | **Random Jitter (RJ)** 5.5 mUI | **ISI Jitter (ISI)** 0.0000 UI | **Data Dependent Jitter (DDJ)** 21.9 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 0 - HBR2CPAT Eye Diagram Test with No Cable (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass  Test Description: To evaluate the waveform to ensure that timing variabilities and amplitude trajectories are such to support the overall DisplayPort system objectives of Bit Error Rate in data transmission.

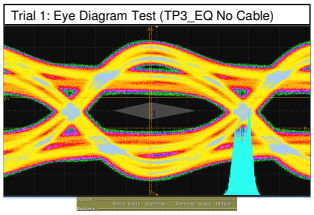
**Pass Limits:** [-500 m to 500 m] | **Eye Diagram Test (TP3_EQ No Cable)** 0.000

### Result Details

**Number of UI** 1000000 | **Statistical Mask Height(VHigh)** 65.265 mV | **Statistical Mask Height(VLow)** -70.093 mV | **Statistical Eye Height** 234.641 mV | **Statistical Mask Width** 479.414 mUI | **Measured RNoise VHigh(Sigma)** 10.659 mV | **Measured RNoise VLow(Sigma)** 14.538 mV | **Measured Eye Height** 266.000 mV | **Measured Eye Width** 142.630 ps | **Max Eye Height Position** 470 mUI | **Measured Rj** 7.800 mUI | **Mask Passing Center Position** 0.000 V | **Vertical Scale** 163.335 mV | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Eye Diagram Test (TP3_EQ No Cable)



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## Lane 1 - HBR2CPAT Eye Diagram Test with No Cable (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass  Test Description: To evaluate the waveform to ensure that timing variabilities and amplitude trajectories are such to support the overall DisplayPort system objectives of Bit Error Rate in data transmission.

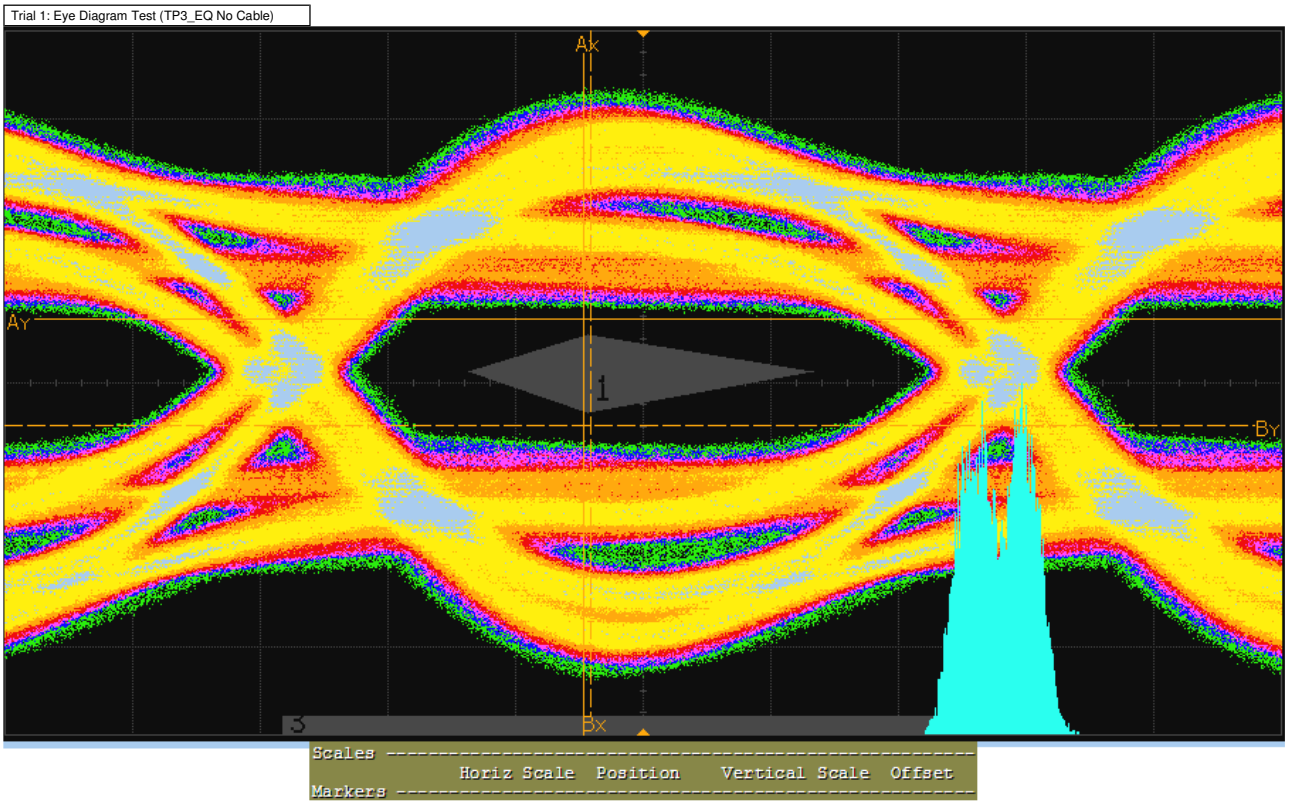
**Pass Limits:** [-500 m to 500 m] | **Eye Diagram Test (TP3_EQ No Cable)** 0.000

### Result Details

**Number of UI** 1000000 | **Statistical Mask Height(VHigh)** 74.761 mV | **Statistical Mask Height(VLow)** -82.144 mV | **Statistical Eye Height** 214.295 mV | **Statistical Mask Width** 479.663 mUI | **Measured RNoise VHigh(Sigma)** 18.289 mV | **Measured RNoise VLow(Sigma)** 24.222 mV | **Measured Eye Height** 267.200 mV | **Measured Eye Width** 145.940 ps | **Max Eye Height Position** 420 mUI | **Measured Rj** 7.900 mUI | **Mask Passing Center Position** 0.000 V | **Vertical Scale** 176.235 mV | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Eye Diagram Test (TP3_EQ No Cable)

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## Lane 2 - HBR2CPAT Eye Diagram Test with No Cable (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass  Test Description: To evaluate the waveform to ensure that timing variabilities and amplitude trajectories are such to support the overall DisplayPort system objectives of Bit Error Rate in data transmission.

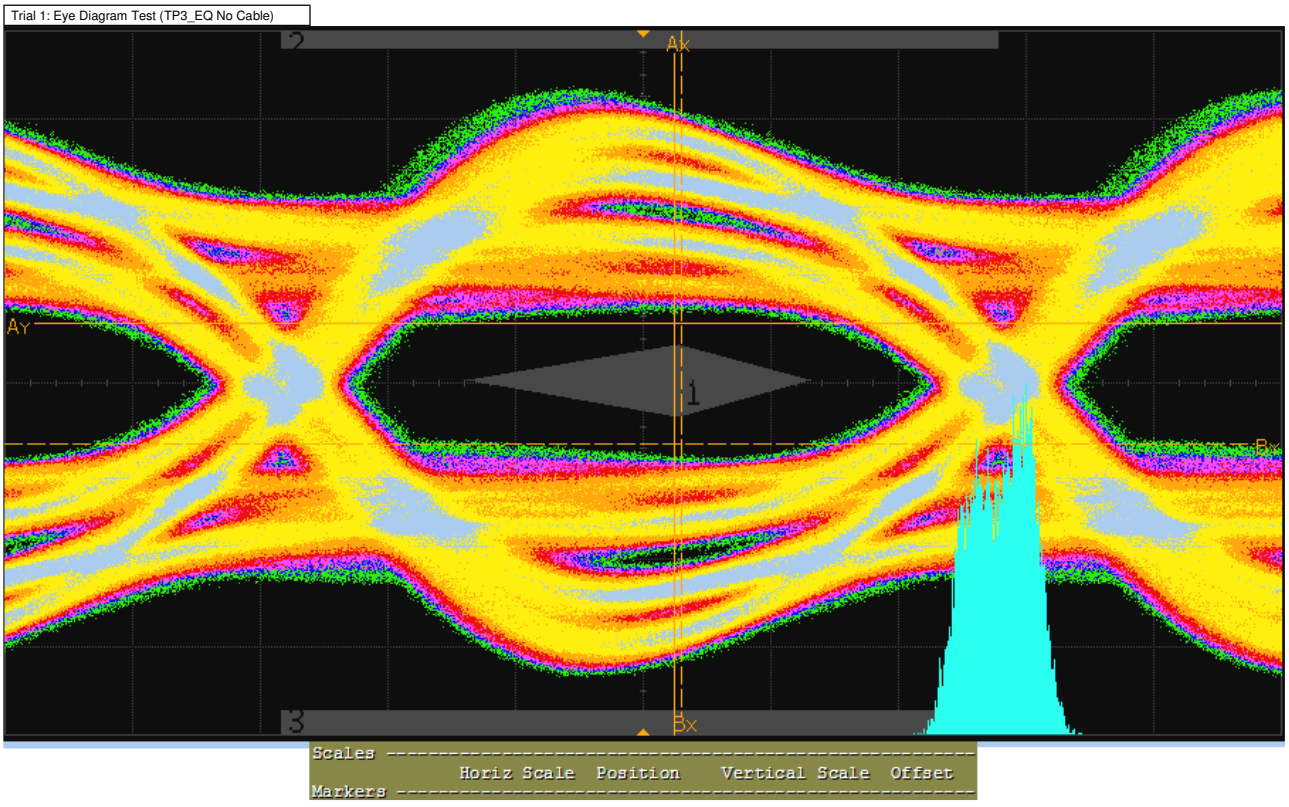
**Pass Limits:** [-500 m to 500 m] **Eye Diagram Test (TP3_EQ No Cable)** 0.000

### Result Details

| | | | | |
|---|---|---|---|---|
| **Number of UI** 1000000 | **Statistical Mask Height(VHigh)** 73.074 mV | **Statistical Mask Height(VLow)** -79.166 mV | **Statistical Eye Height** 250.060 mV | **Statistical Mask Width** 479.663 mUI |
| **Measured RNoise VHigh(Sigma)** 16.934 mV | **Measured RNoise VLow(Sigma)** 21.829 mV | **Measured Eye Height** 298.300 mV | **Measured Eye Width** 142.260 ps | **Max Eye Height Position** 550 mUI |
| **Measured Rj** 7.900 mUI | **Mask Passing Center Position** 0.000 V | **Vertical Scale** 183.135 mV | **Test Mode** Compliance | **Test Layer** Physical Layer Tests |
| **Test Condition** Compliance Conditions Only | | | | |
| **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 |
| **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0 | | |

**Trial 1**

Trial 1: Eye Diagram Test (TP3_EQ No Cable)

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## Lane 3 - HBR2CPAT Eye Diagram Test with No Cable (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass  Test Description: To evaluate the waveform to ensure that timing variabilities and amplitude trajectories are such to support the overall DisplayPort system objectives of Bit Error Rate in data transmission.

**Pass Limits:** [-500 m to 500 m] **Eye Diagram Test (TP3_EQ No Cable)** 0.000

**Result Details**

**Number of UI** 1000000 **Statistical Mask Height(VHigh)** 68.710 mV **Statistical Mask Height(VLow)** -77.425 mV **Statistical Eye Height** 275.925 mV **Statistical Mask Width** 479.663 mUI

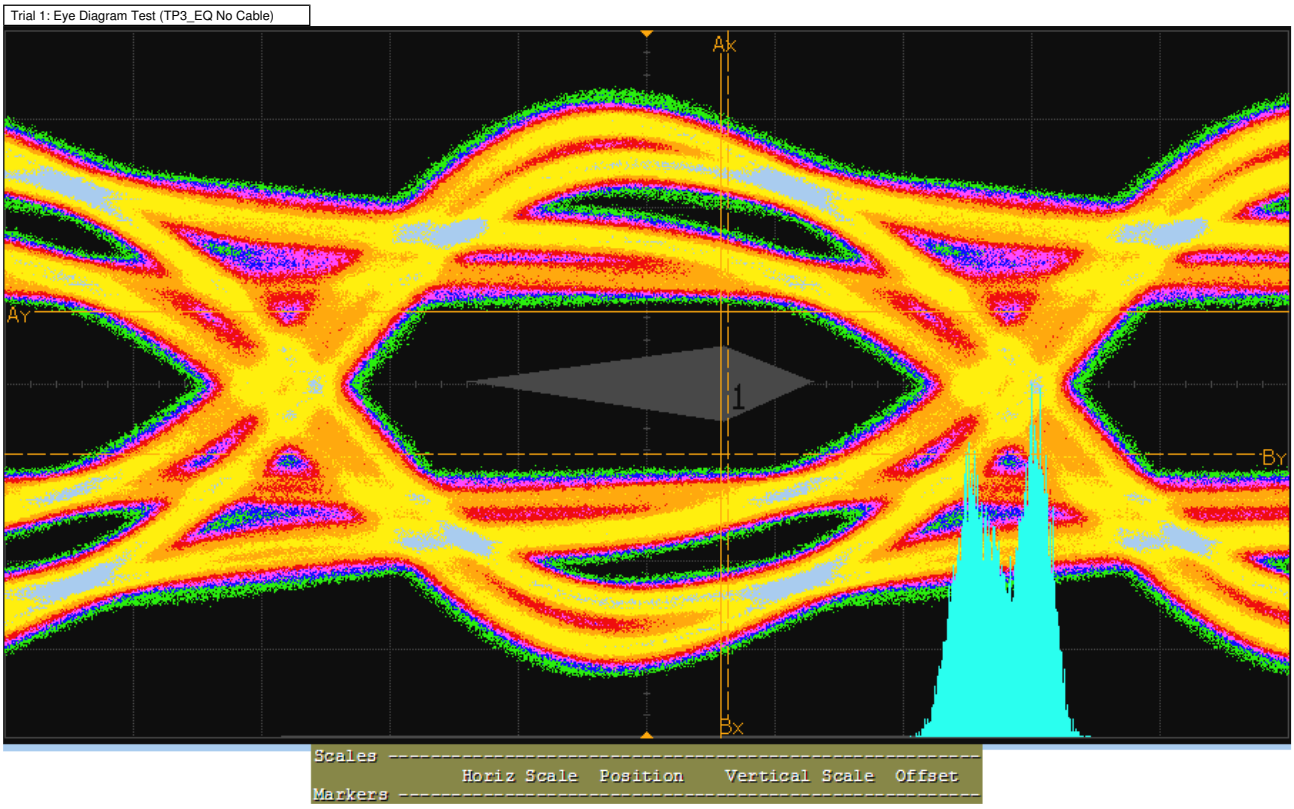
**Measured RNoise VHigh(Sigma)** 13.427 mV **Measured RNoise VLow(Sigma)** 20.430 mV **Measured Eye Height** 318.060 mV **Measured Eye Width** 139.330 ps **Max Eye Height Position** 610 mUI

**Measured Rj** 7.900 mUI **Mask Passing Center Position** 0.000 V **Vertical Scale** 171.478 mV **Test Mode** Compliance **Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only

**DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 0 **PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Eye Diagram Test (TP3_EQ No Cable)

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✓ Lane 0 - HBR2CPAT Total Jitter Test with No Cable (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.12: Table 3.19 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the Total Jitter with No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 580.000 mUI **HBR2CPAT Total Jitter (TP3_EQ No Cable)** 275.300 mUI

**Result Details**

**Jitter Separation Image** (See image) **Edges** 1.00000000 M **Total Jitter (TJ)** 275.3 mUI **Total Jitter (TJ) in ps** 50.9823 ps **Periodic Jitter (PJ rms)** 2.5 mUI **Periodic Jitter (PJ p-p)** 9.4 mUI

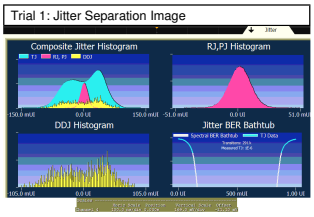
**Deterministic Jitter (DJ)** 172.5 mUI **Random Jitter (RJ)** 8.5 mUI **ISI Jitter (ISI)** 180.7 mUI **Data Dependent Jitter (DDJ)** 191.5 mUI **Bit Error Rate (BER)** E9 **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 0

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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✓ Lane 1 - HBR2CPAT Total Jitter Test with No Cable (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.12: Table 3.19 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the Total Jitter with No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

**Pass Limits:** <= 580.000 mUI **HBR2CPAT Total Jitter (TP3_EQ No Cable)** 277.600 mUI

**Result Details**

**Jitter Separation Image** (See image) **Edges** 1.00000000 M **Total Jitter (TJ)** 277.6 mUI **Total Jitter (TJ) in ps** 51.4079 ps **Periodic Jitter (PJ rms)** 1.7 mUI **Periodic Jitter (PJ p-p)** 7.6 mUI

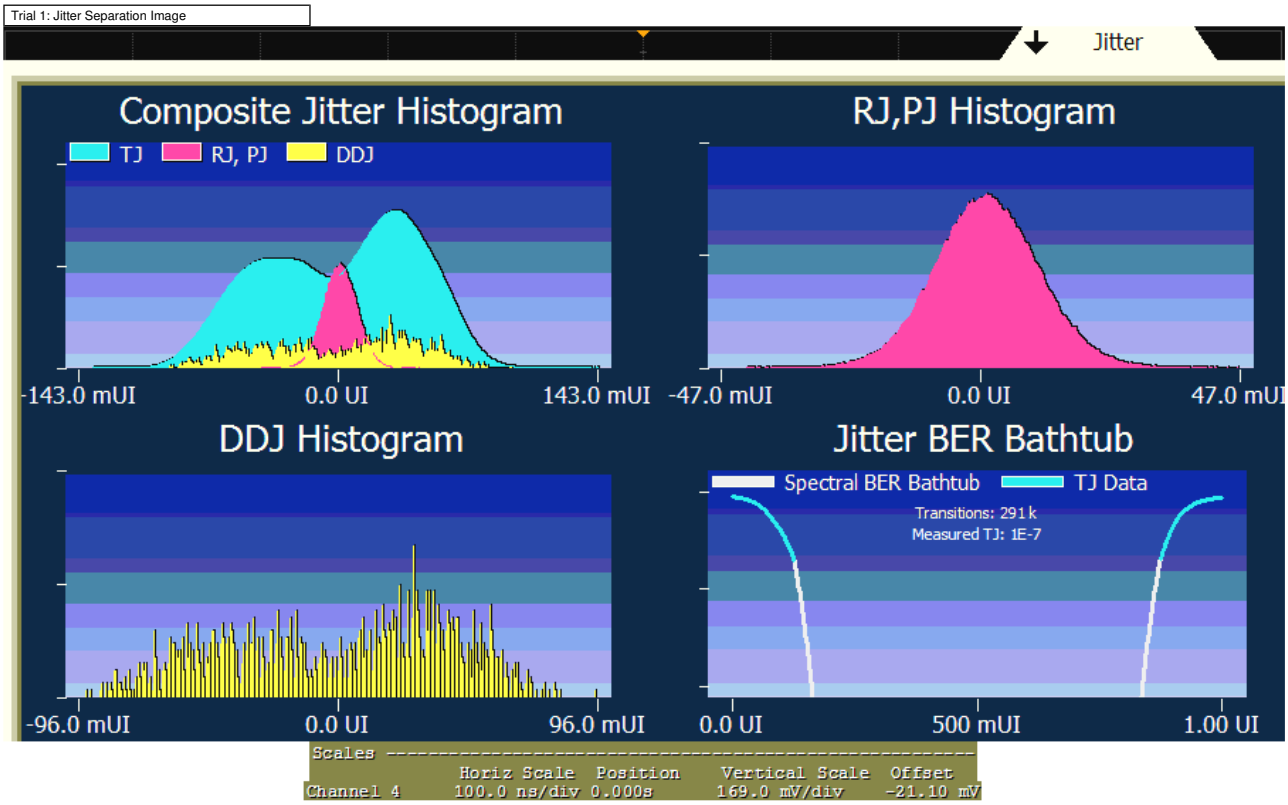
**Deterministic Jitter (DJ)** 166.6 mUI **Random Jitter (RJ)** 9.2 mUI **ISI Jitter (ISI)** 183.7 mUI **Data Dependent Jitter (DDJ)** 189.5 mUI **Bit Error Rate (BER)** E9 **Test Mode** Compliance

**Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source **Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 0

**PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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Lane 2 - HBR2CPAT Total Jitter Test with No Cable (TP3_EQ)

*Reference: DisplayPort CTS Sec. 3.12: Table 3.19 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Total Jitter with No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

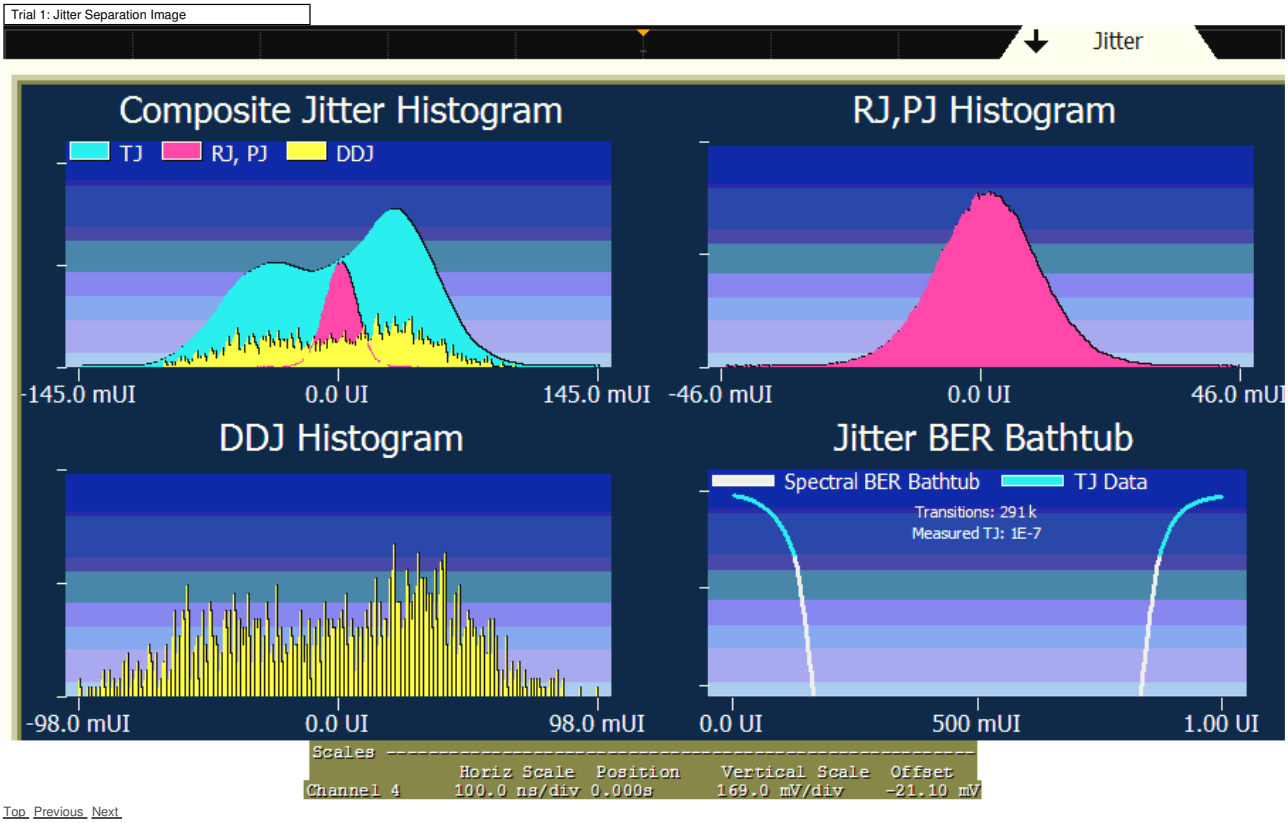
**Pass Limits:** <= 580.000 mUI | **Lane 2 HBR2CPAT Total Jitter (TP3_EQ No Cable)** 282.200 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.00000000 M | **Total Jitter (TJ)** 282.2 mUI | **Total Jitter (TJ) in ps** 52.2598 ps | **Periodic Jitter (PJ rms)** 2.5 mUI | **Periodic Jitter (PJ p-p)** 11.5 mUI | **Deterministic Jitter (DJ)** 177.4 mUI | **Random Jitter (RJ)** 8.7 mUI | **ISI Jitter (ISI)** 196.3 mUI | **Data Dependent Jitter (DDJ)** 197.0 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 3 - HBR2CPAT Total Jitter Test with No Cable (TP3_EQ)

Test Summary: Pass  Test Description: To evaluate the Total Jitter with No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

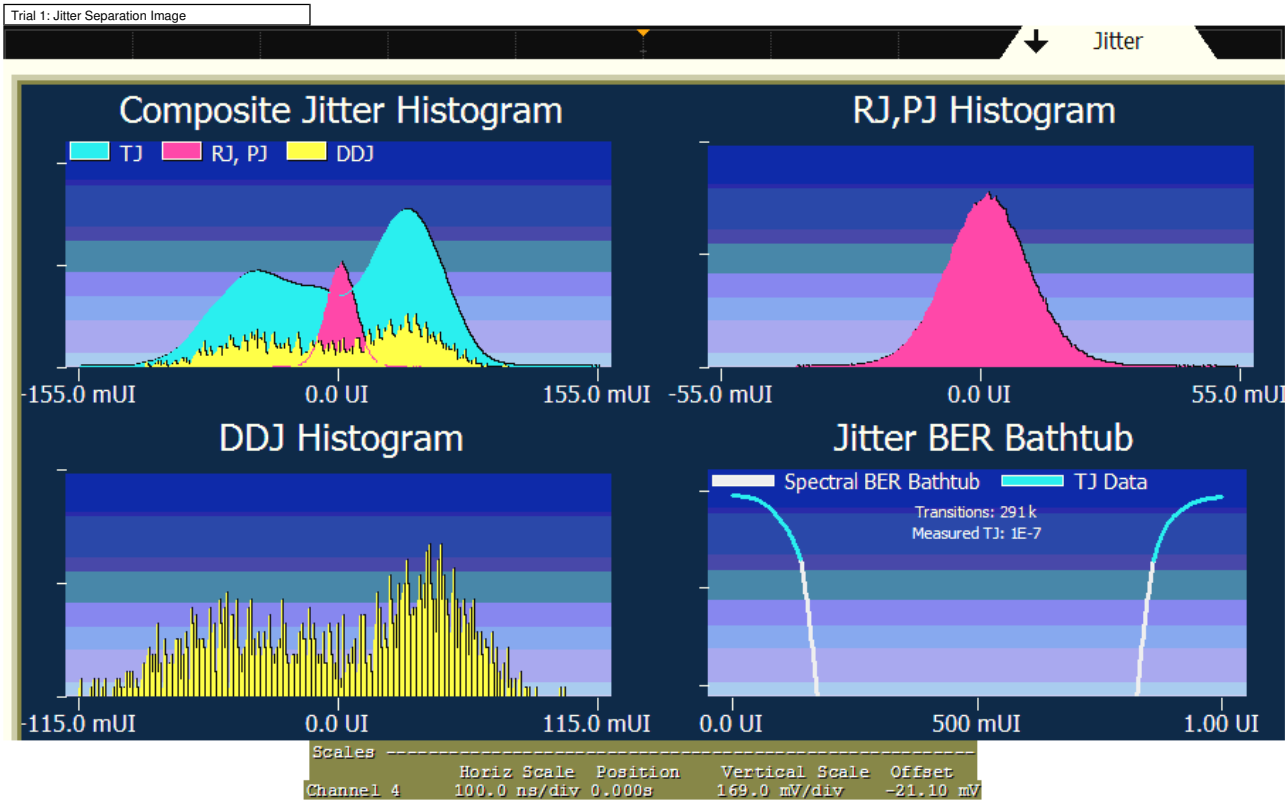
**Pass Limits:** <= 580.000 mUI | **HBR2CPAT Total Jitter (TP3_EQ No Cable)** 301.300 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.00000000 M | **Total Jitter (TJ)** 301.3 mUI | **Total Jitter (TJ) in ps** 55.7972 ps | **Periodic Jitter (PJ rms)** 3.5 mUI | **Periodic Jitter (PJ p-p)** 12.7 mUI | **Deterministic Jitter (DJ)** 202.6 mUI | **Random Jitter (RJ)** 8.2 mUI | **ISI Jitter (ISI)** 207.1 mUI | **Data Dependent Jitter (DDJ)** 216.5 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 0 - HBR2CPAT Deterministic Jitter Test with No Cable (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the Deterministic Jitter No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

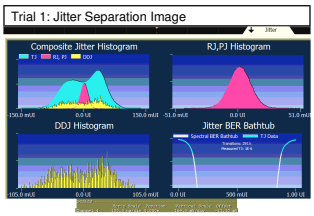
**Pass Limits:** <= 490.000 mUI | **HBR2CPAT Deterministic Jitter (TP3_EQ No Cable)** 172.500 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 275.3 mUI | **Total Jitter (TJ) in ps** 50.9823 ps | **Periodic Jitter (PJ rms)** 2.5 mUI | **Periodic Jitter (PJ p-p)** 9.4 mUI | **Deterministic Jitter (DJ)** 172.5 mUI | **Random Jitter (RJ)** 8.5 mUI | **ISI Jitter (ISI)** 180.7 mUI | **Data Dependent Jitter (DDJ)** 191.5 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image



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## Lane 1 - HBR2CPAT Deterministic Jitter Test with No Cable (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the Deterministic Jitter No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

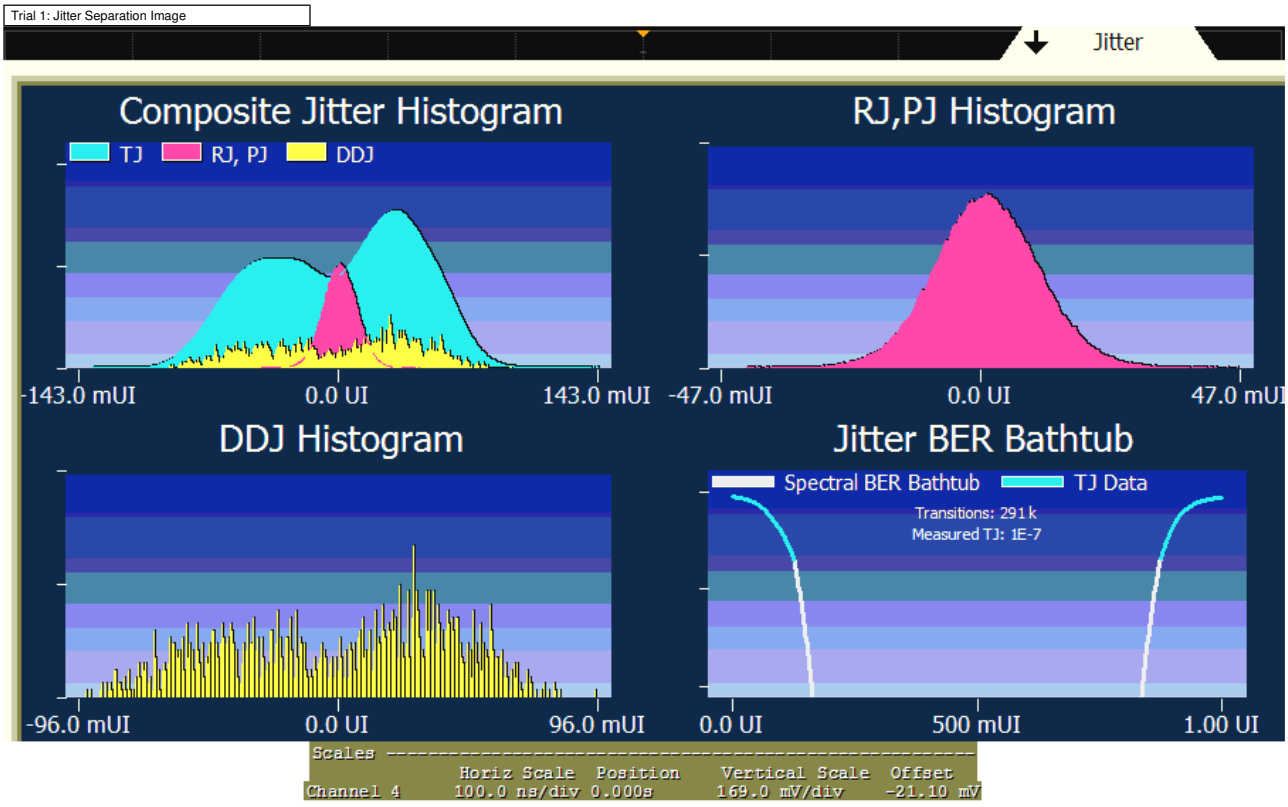
**Pass Limits:** <= 490.000 mUI | **HBR2CPAT Deterministic Jitter (TP3_EQ No Cable)** 166.600 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 277.6 mUI | **Total Jitter (TJ) in ps** 51.4079 ps | **Periodic Jitter (PJ rms)** 1.7 mUI | **Periodic Jitter (PJ p-p)** 7.6 mUI | **Deterministic Jitter (DJ)** 166.6 mUI | **Random Jitter (RJ)** 9.2 mUI | **ISI Jitter (ISI)** 183.7 mUI | **Data Dependent Jitter (DDJ)** 189.5 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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Lane 2 - HBR2CPAT Deterministic Jitter Test with No Cable (TP3_EQ)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass Test Description: To evaluate the Deterministic Jitter No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

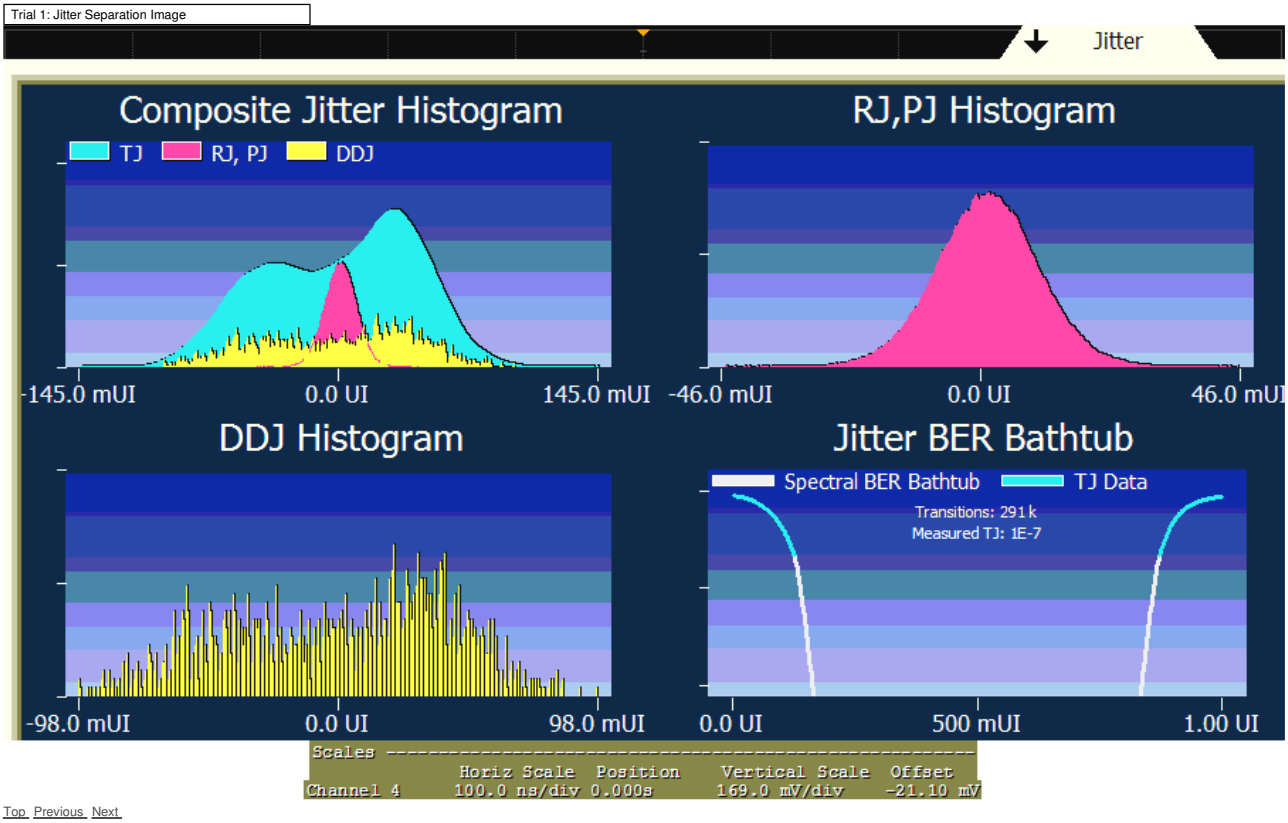
**Pass Limits:** <= 490.000 mUI | **Lane 2 HBR2CPAT Deterministic Jitter (TP3_EQ No Cable)** 177.400 mUI

**Result Details**

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 282.2 mUI | **Total Jitter (TJ) in ps** 52.2598 ps | **Periodic Jitter (PJ rms)** 2.5 mUI | **Periodic Jitter (PJ p-p)** 11.5 mUI | **Deterministic Jitter (DJ)** 177.4 mUI | **Random Jitter (RJ)** 8.7 mUI | **ISI Jitter (ISI)** 196.3 mUI | **Data Dependent Jitter (DDJ)** 197.0 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 3 - HBR2CPAT Deterministic Jitter Test with No Cable (TP3_EQ)

Test Summary: Pass  Test Description: To evaluate the Deterministic Jitter No Cable (TP3_EQ) accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

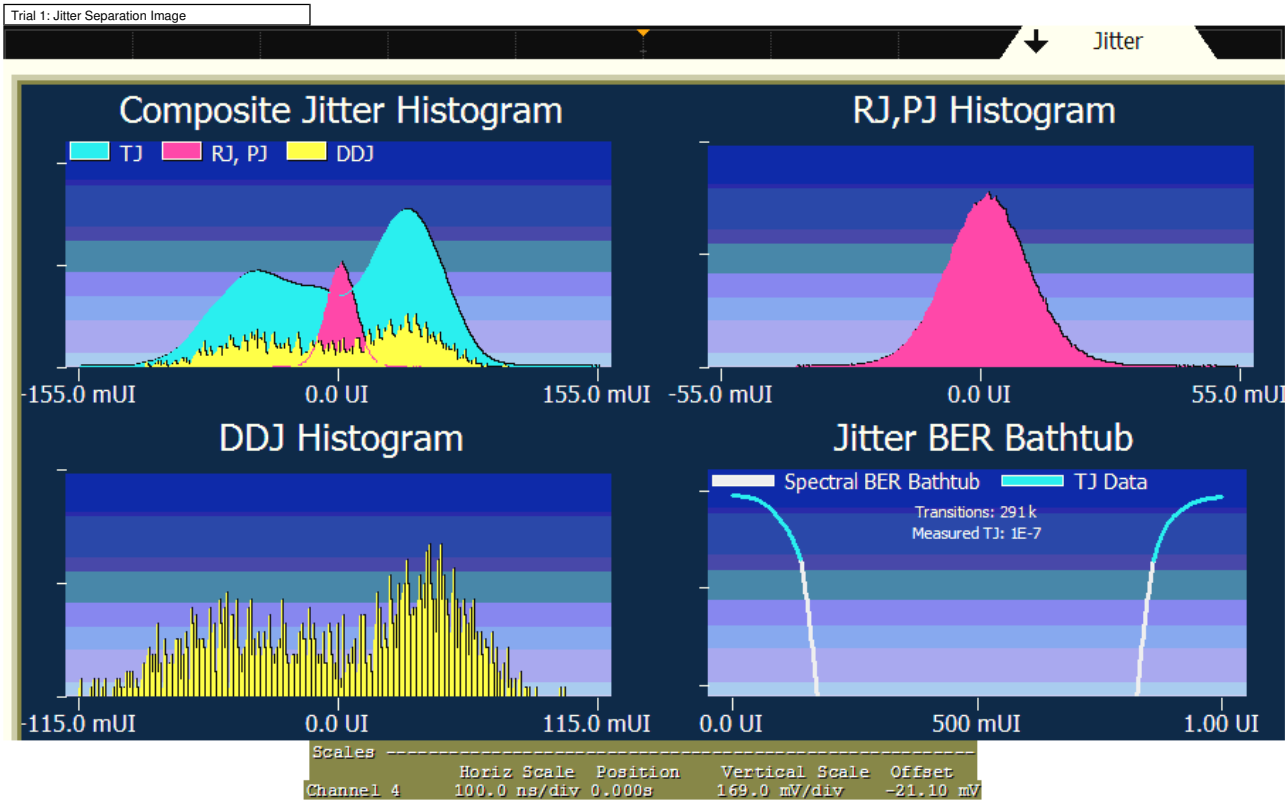
**Pass Limits:** <= 490.000 mUI | **HBR2CPAT Deterministic Jitter (TP3_EQ No Cable)** 202.600 mUI

### Result Details

**Jitter Separation Image** (See image) | **Edges** 1.0000000000 M | **Total Jitter (TJ)** 301.3 mUI | **Total Jitter (TJ) in ps** 55.7972 ps | **Periodic Jitter (PJ rms)** 3.5 mUI | **Periodic Jitter (PJ p-p)** 12.7 mUI | **Deterministic Jitter (DJ)** 202.6 mUI | **Random Jitter (RJ)** 8.2 mUI | **ISI Jitter (ISI)** 207.1 mUI | **Data Dependent Jitter (DDJ)** 216.5 mUI | **Bit Error Rate (BER)** E9 | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source | **Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

Trial 1: Jitter Separation Image

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## Lane 0 - PLTPAT - 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.

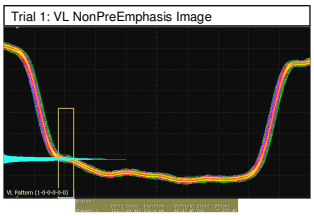
**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 3) - PreEmphasis(Pre-emphasis 2)** -87 mdB

### Result Details

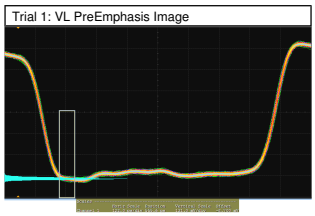
**VL NonPreEmphasis Image** (See image) | **VL PreEmphasis Image** (See image) | **VH NonPreEmphasis Image** (See image) | **VH PreEmphasis Image** (See image) | **Number of UI** 1000 | **VSwing PreEmphasis (Transition Bit)** 806.433 mV | **VSwing PreEmphasis (Non Transition Bit)** 720.094 mV | **PreEmphasis Result** 984 mdB | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 3 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

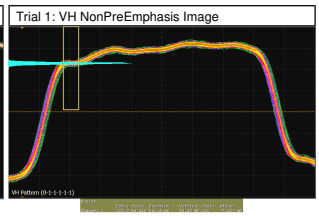
Trial 1: VL NonPreEmphasis Image



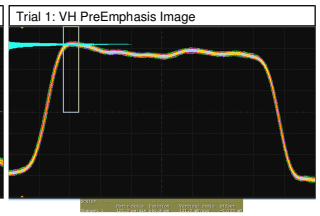
Trial 1: VL PreEmphasis Image



Trial 1: VH NonPreEmphasis Image



Trial 1: VH PreEmphasis Image



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## Lane 1 - PLTPAT - 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.

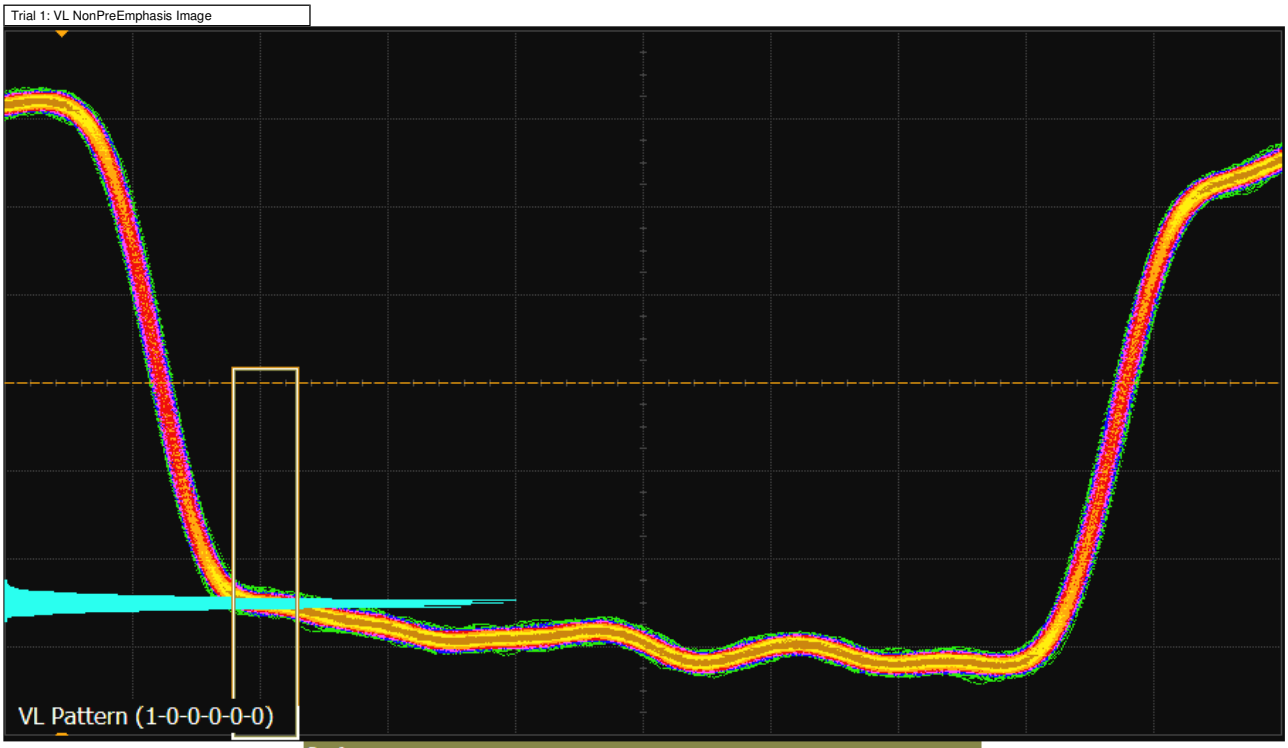
**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 3) - PreEmphasis(Pre-emphasis 2)** -3.393 dB

### Result Details

**VL NonPreEmphasis Image** (See image) | **VL PreEmphasis Image** (See image) | **VH NonPreEmphasis Image** (See image) | **VH PreEmphasis Image** (See image) | **Number of UI** 1000 | **VSwing PreEmphasis (Transition Bit)** 740.882 mV | **VSwing PreEmphasis (Non Transition Bit)** 891.031 mV | **PreEmphasis Result** -1.603 dB | **BitRate** 5.4 Gbps | **Level** Swing 0 | **PreEmphasis** Pre-emphasis 3 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

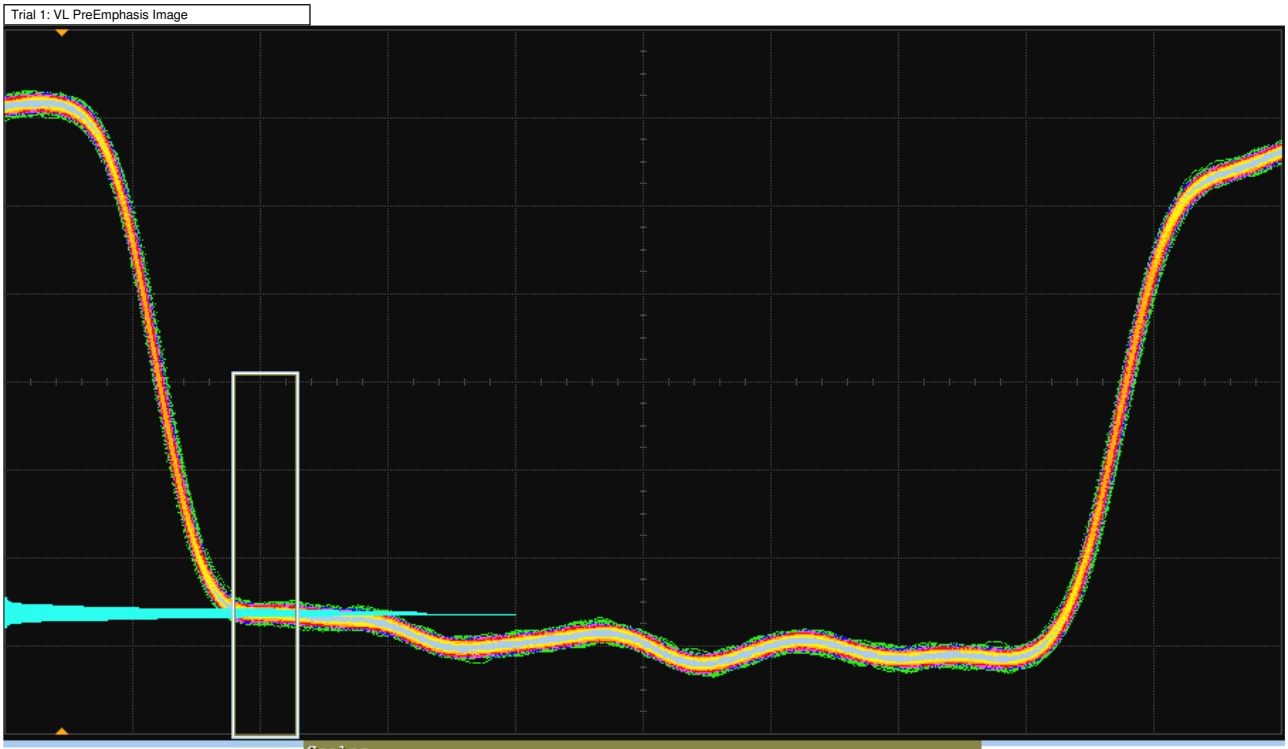
Trial 1: VL NonPreEmphasis Image




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 69.30 mV/div | -9.100 mV |

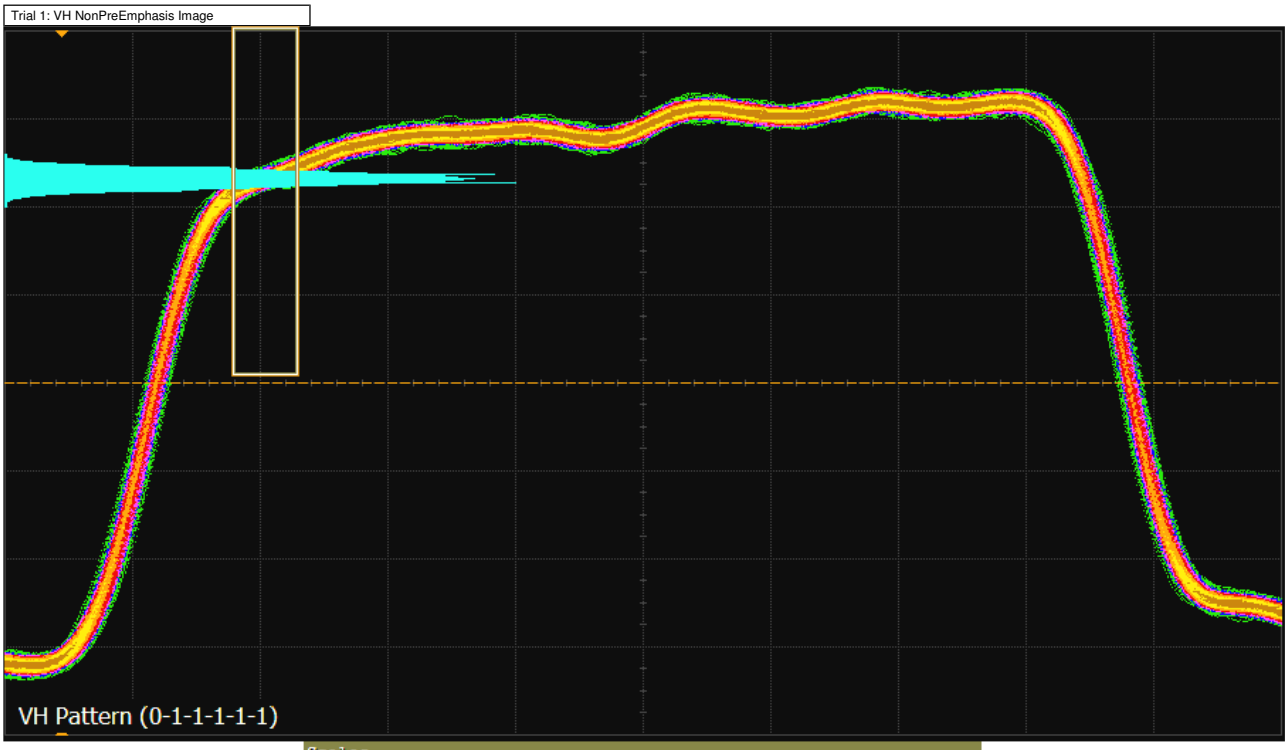
Trial 1: VL PreEmphasis Image



Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 148.0 mV/div | -7.800 mV |

Trial 1: VH NonPreEmphasis Image

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## Lane 2 - PLTPAT - 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.

**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 3) - PreEmphasis(Pre-emphasis 2)** -6.295 dB

**Result Details**

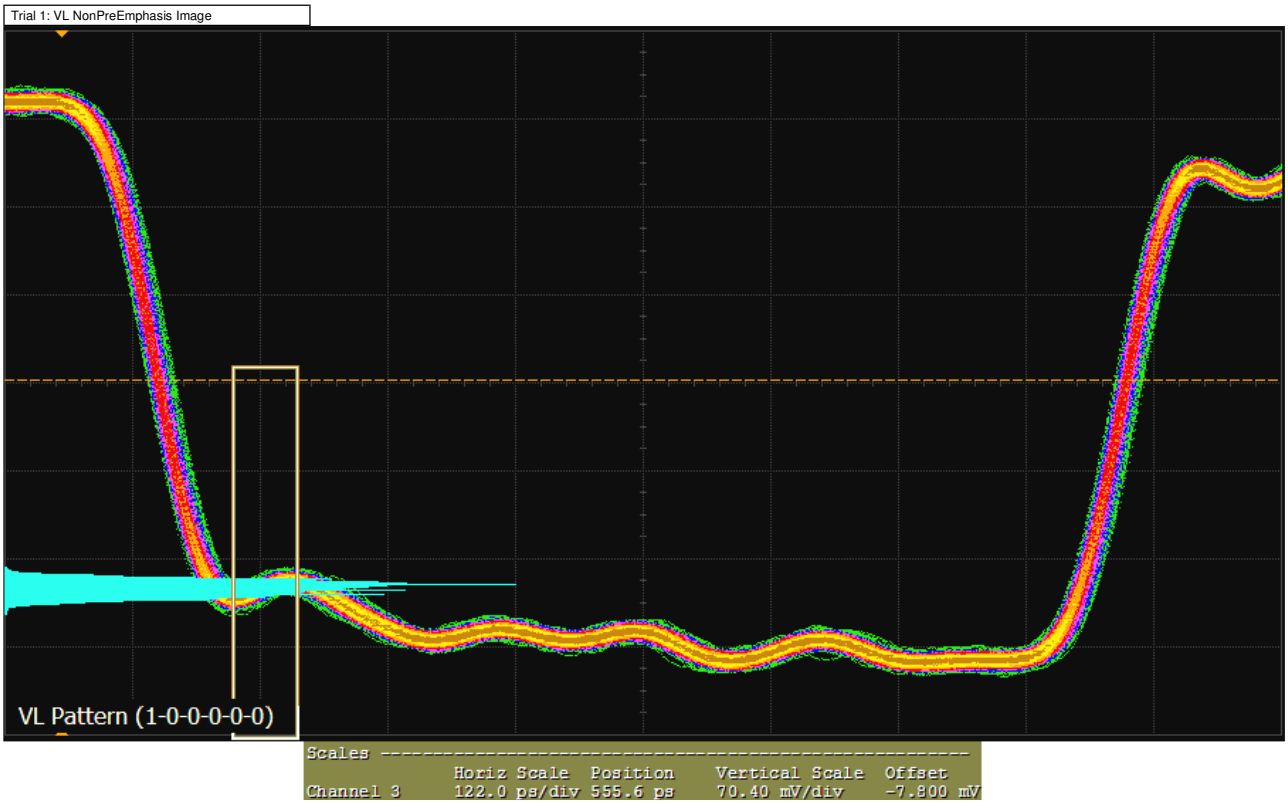
**VL NonPreEmphasis Image** (See image) | **VL PreEmphasis Image** (See image) | **VH NonPreEmphasis Image** (See image) | **VH PreEmphasis Image** (See image) | **Number of UI** 1000

**VSwing PreEmphasis (Transition Bit)** 727.709 mV | **VSwing PreEmphasis (Non Transition Bit)** 902.888 mV | **PreEmphasis Result** -1.874 dB | **BitRate** 5.4 Gbps | **Level** Swing 0

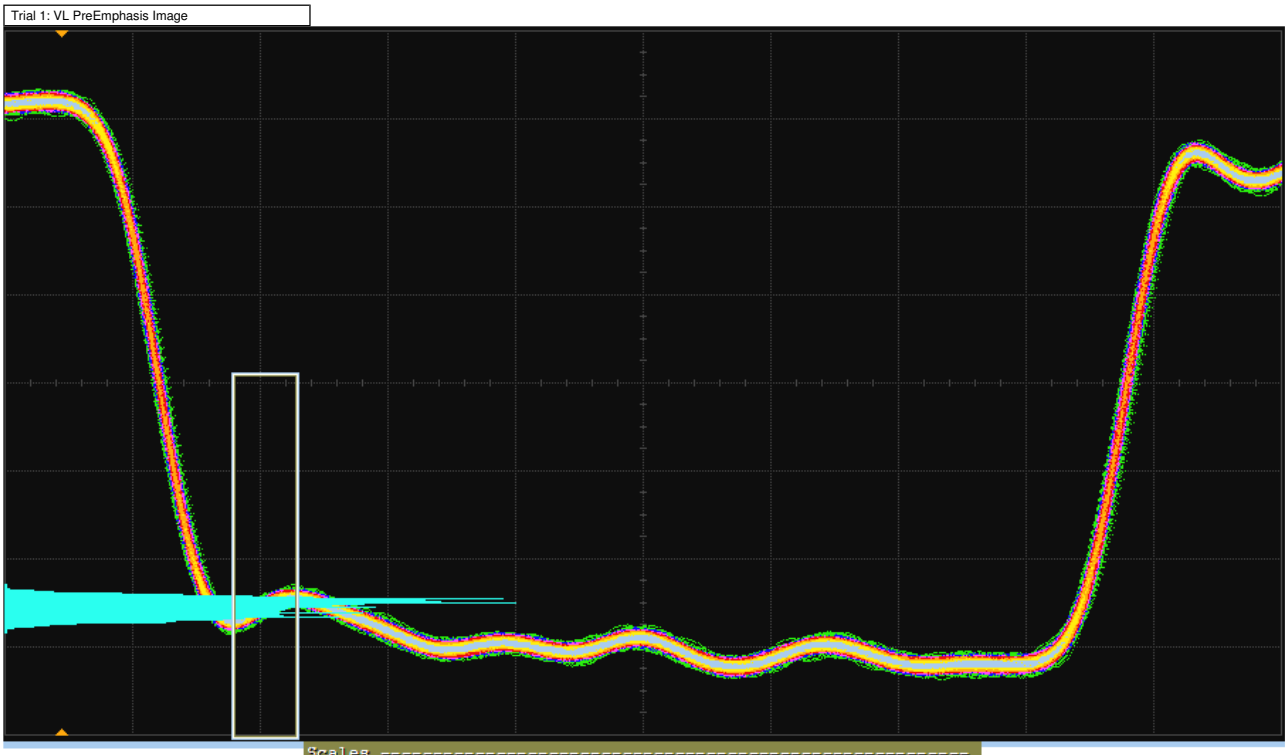
**PreEmphasis** Pre-emphasis 3 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

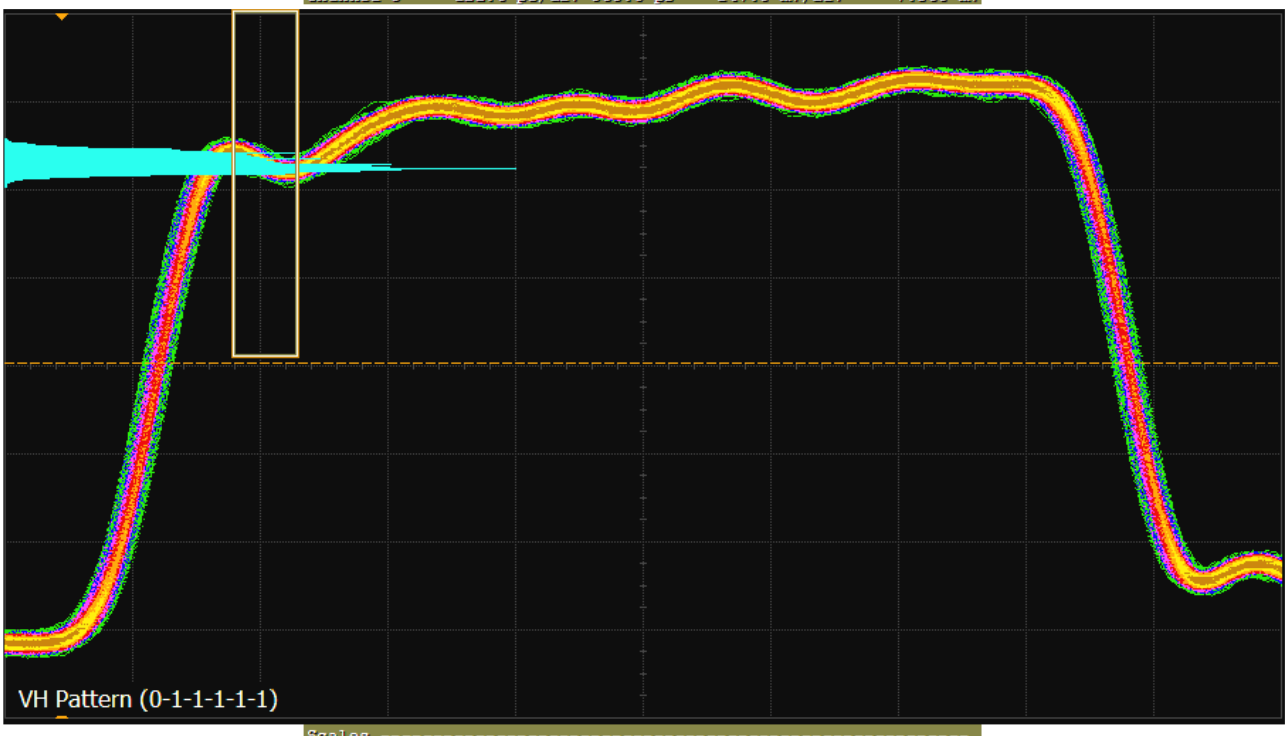
Trial 1: VL NonPreEmphasis Image



Trial 1: VL PreEmphasis Image

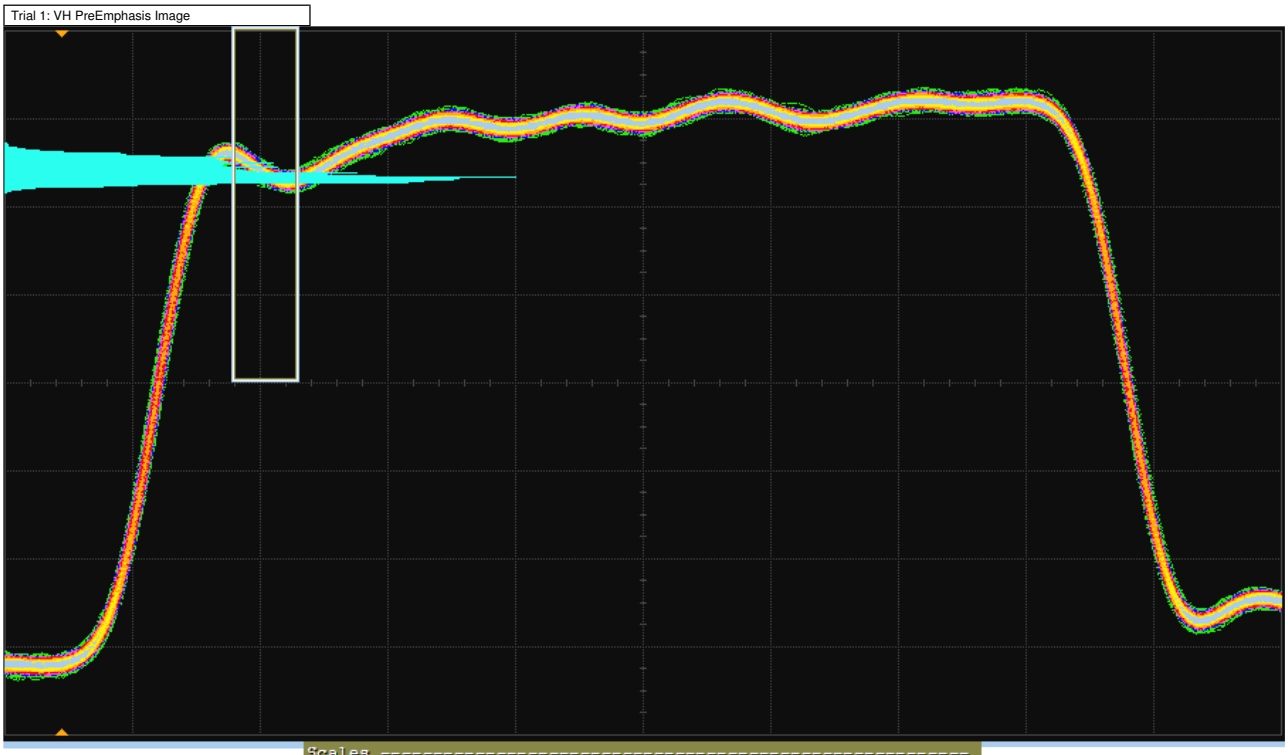


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 147.0 mV/div | -7.800 mV |




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 70.40 mV/div | -7.800 mV |

Trial 1: VH PreEmphasis Image



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 147.0 mV/div | -7.800 mV |

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Lane 3 - PLTPAT - 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: Pass

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

**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 3) - PreEmphasis(Pre-emphasis 2)** 3.230 dB

**Result Details**

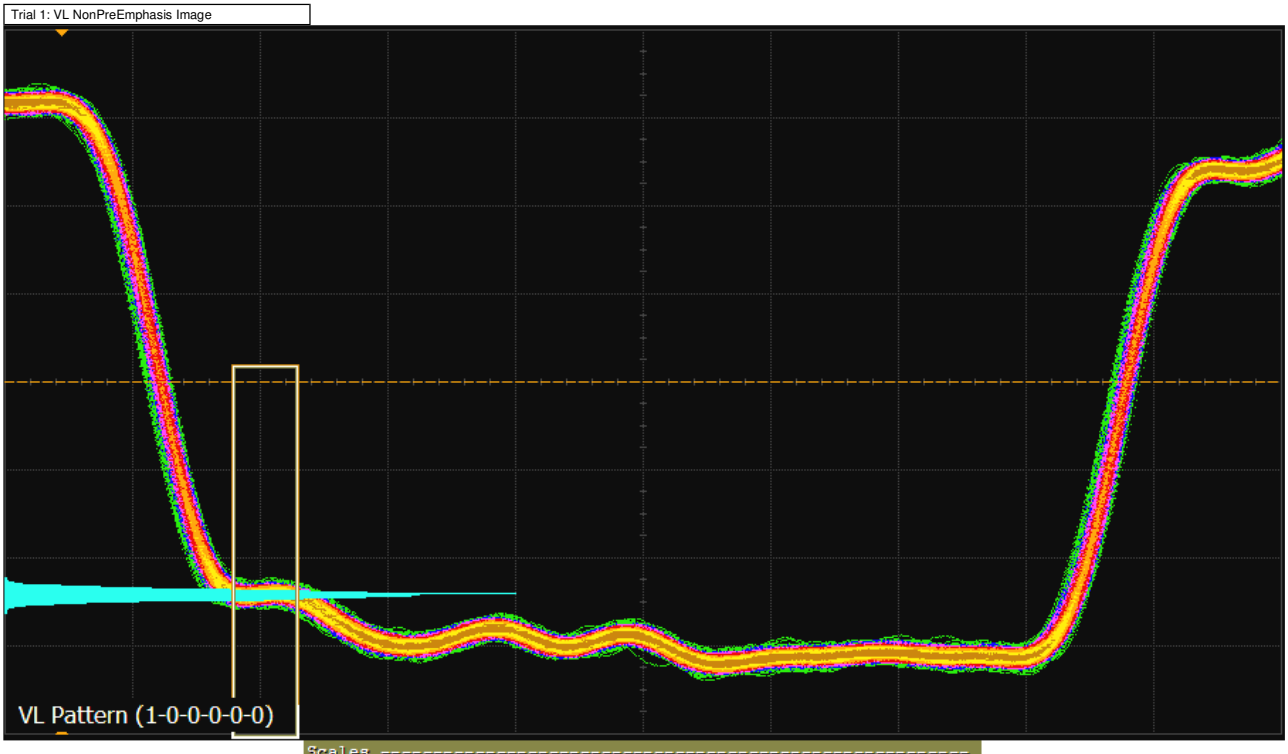
**VL NonPreEmphasis Image** (See image) | **VL PreEmphasis Image** (See image) | **VH NonPreEmphasis Image** (See image) | **VH PreEmphasis Image** (See image) | **Number of UI** 1000

**VSwing PreEmphasis (Transition Bit)** 855.533 mV | **VSwing PreEmphasis (Non Transition Bit)** 727.115 mV | **PreEmphasis Result** 1.413 dB | **BitRate** 5.4 Gbps | **Level** Swing 0

**PreEmphasis** Pre-emphasis 3 | **SSC** SSC Disabled | **PostCursor2** Level 0

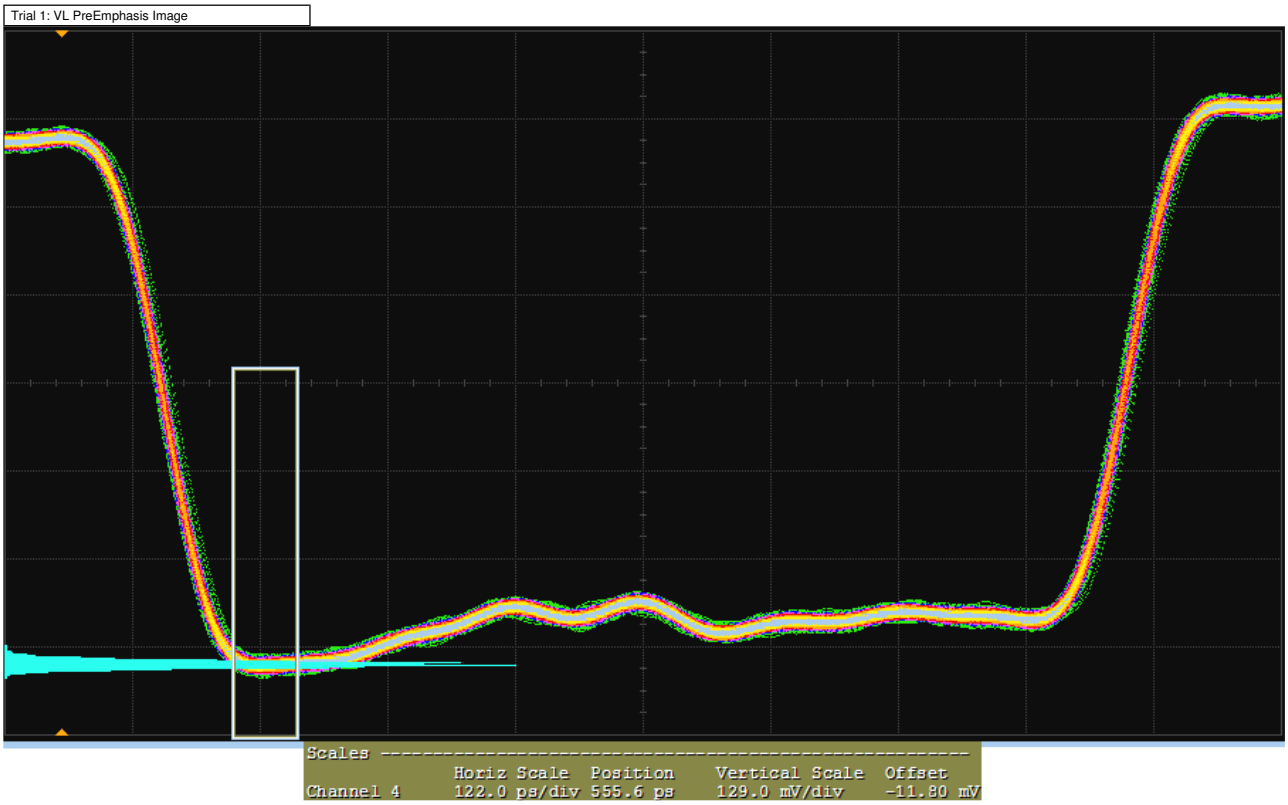
**Trial 1**

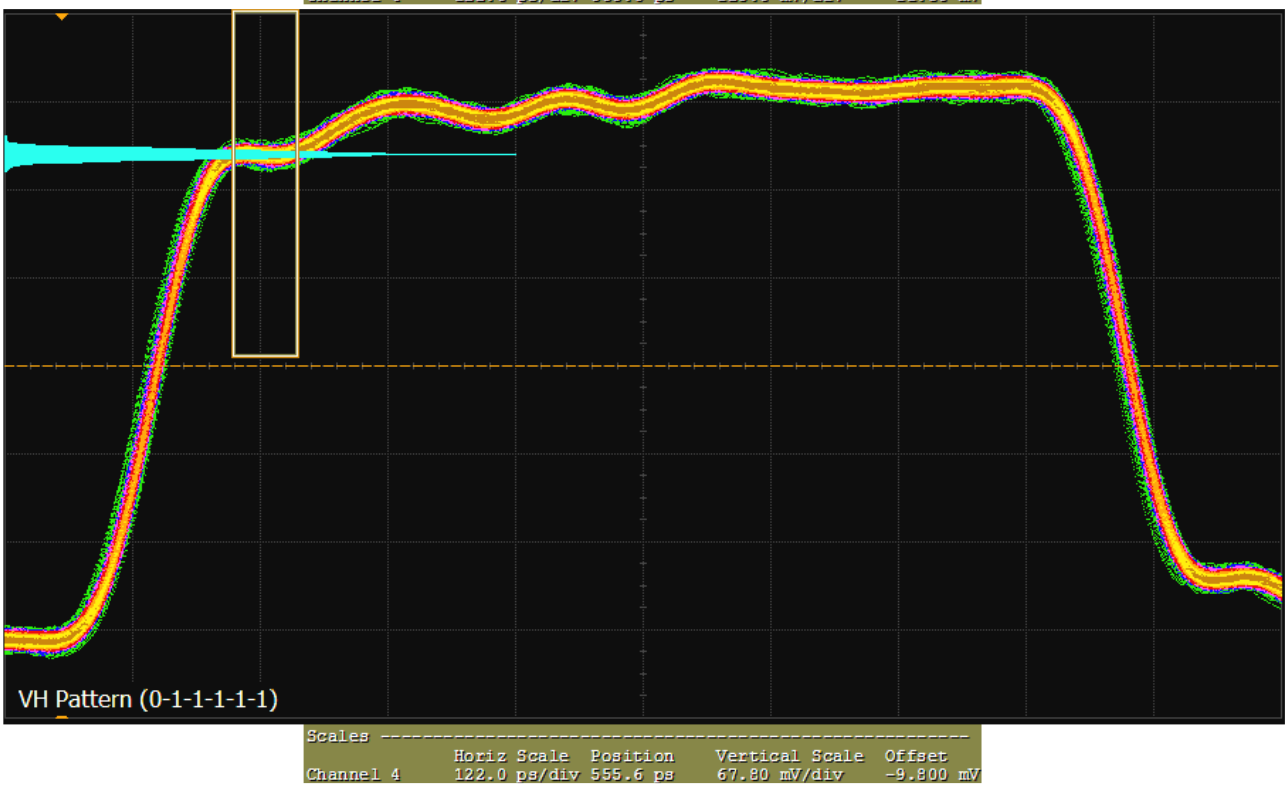
Trial 1: VL NonPreEmphasis Image



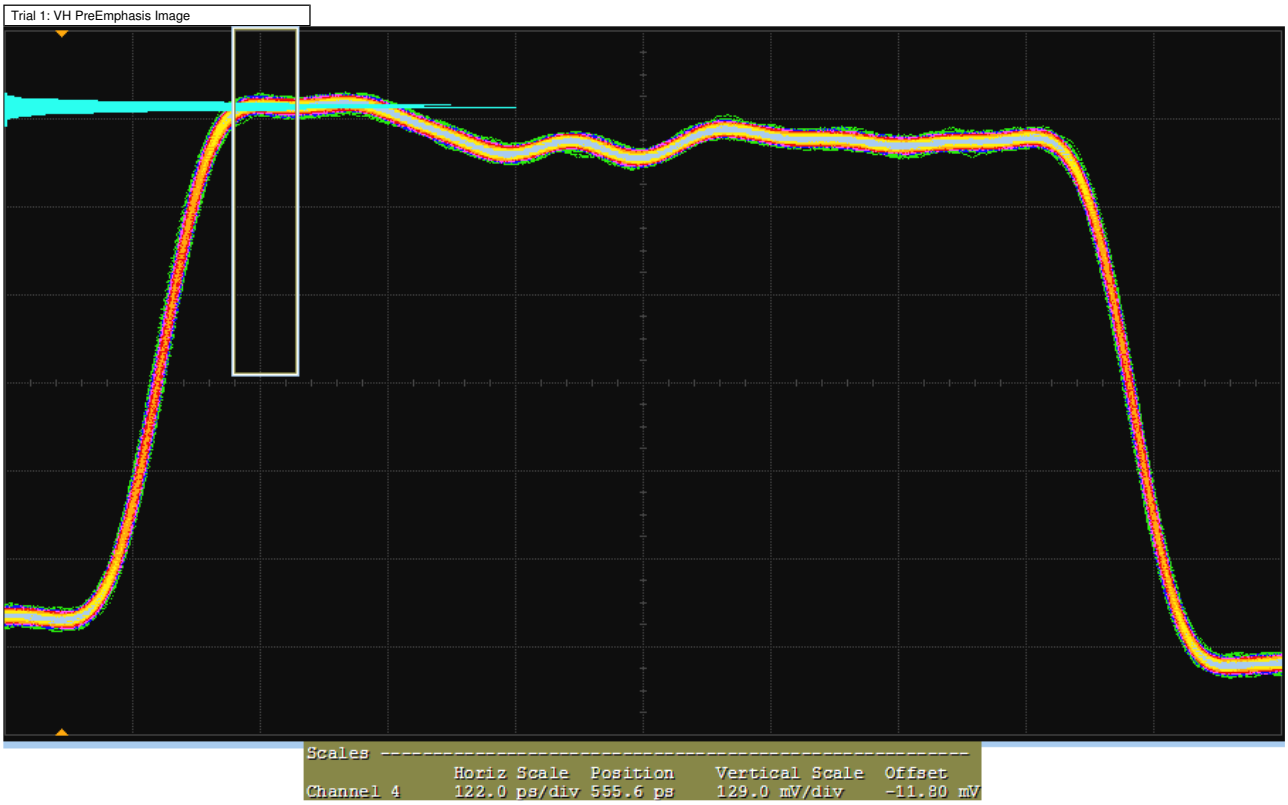

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 67.80 mV/div | -9.800 mV |

Trial 1: VL PreEmphasis Image



Trial 1: VH PreEmphasis Image

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✓ Lane 0 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 0)

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

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

**Pass Limits:** >= 850 m **Non-Transition Voltage Range** 1.164

**Result Details**

**VSwing Non-Transition Bit(Pre-emphasis 0)** 407.879 mV **VSwing Non-Transition Bit(Pre-emphasis 1)** 341.692 mV **VSwing Non-Transition Bit(Pre-emphasis 2)** 474.745 mV

**VSwing Non-Transition Bit(Pre-emphasis 3)** 720.094 mV **VSwing Non-Transition Bit(Max)** 720.094 mV **VSwing Non-Transition Bit(Min)** 474.745 mV **BitRate** 5.4 Gbps **Level** Swing 0

**PreEmphasis** Pre-emphasis 3 **SSC** SSC Disabled **PostCursor2** Level 0

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✓ Lane 1 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 0)

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

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

**Pass Limits:** >= 850 m **Non-Transition Voltage Range** 1.160

**Result Details**

**VSwing Non-Transition Bit(Pre-emphasis 0)** 408.211 mV **VSwing Non-Transition Bit(Pre-emphasis 1)** 501.513 mV **VSwing Non-Transition Bit(Pre-emphasis 2)** 473.588 mV

**VSwing Non-Transition Bit(Pre-emphasis 3)** 891.031 mV **VSwing Non-Transition Bit(Max)** 891.031 mV **VSwing Non-Transition Bit(Min)** 473.588 mV **BitRate** 5.4 Gbps **Level** Swing 0

**PreEmphasis** Pre-emphasis 3 **SSC** SSC Disabled **PostCursor2** Level 0

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✓ Lane 2 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 0)

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

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

**Pass Limits:** >= 850 m **Non-Transition Voltage Range** 957 m

**Result Details**

**VSwing Non-Transition Bit(Pre-emphasis 0)** 425.095 mV **VSwing Non-Transition Bit(Pre-emphasis 1)** 414.278 mV **VSwing Non-Transition Bit(Pre-emphasis 2)** 406.783 mV

**VSwing Non-Transition Bit(Pre-emphasis 3)** 902.888 mV **VSwing Non-Transition Bit(Max)** 902.888 mV **VSwing Non-Transition Bit(Min)** 406.783 mV **BitRate** 5.4 Gbps **Level** Swing 0

**PreEmphasis** Pre-emphasis 3 **SSC** SSC Disabled **PostCursor2** Level 0

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✓ Lane 3 - PLTPAT - Non-Transition Voltage Range Measurement (Swing 0)

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

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

**Pass Limits:** >= 850 m **Non-Transition Voltage Range** 1.439

**Result Details**

**VSwing Non-Transition Bit(Pre-emphasis 0)** 402.157 mV **VSwing Non-Transition Bit(Pre-emphasis 1)** 496.921 mV **VSwing Non-Transition Bit(Pre-emphasis 2)** 578.852 mV

**VSwing Non-Transition Bit(Pre-emphasis 3)** 727.115 mV **VSwing Non-Transition Bit(Max)** 727.115 mV **VSwing Non-Transition Bit(Min)** 578.852 mV **BitRate** 5.4 Gbps **Level** Swing 0

**PreEmphasis** Pre-emphasis 3 **SSC** SSC Disabled **PostCursor2** Level 0

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✓ Lane 0 - PLTPAT - Non-PreEmphasis Level Test (Swing 3/ Swing 2)

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

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

**Pass Limits:** [1.0000 dB to 4.4000 dB] **Lane 0 Non-PreEmphasis Level Test (Swing 3/Swing 2)** 1.9634 dB

## Result Details

**Level VH Image (Swing 3)** (See image) **Level VL Image (Swing 3)** (See image) **Level VH Image (Swing 2)** (See image) **Level VL Image (Swing 2)** (See image) **Number of UI** 1000

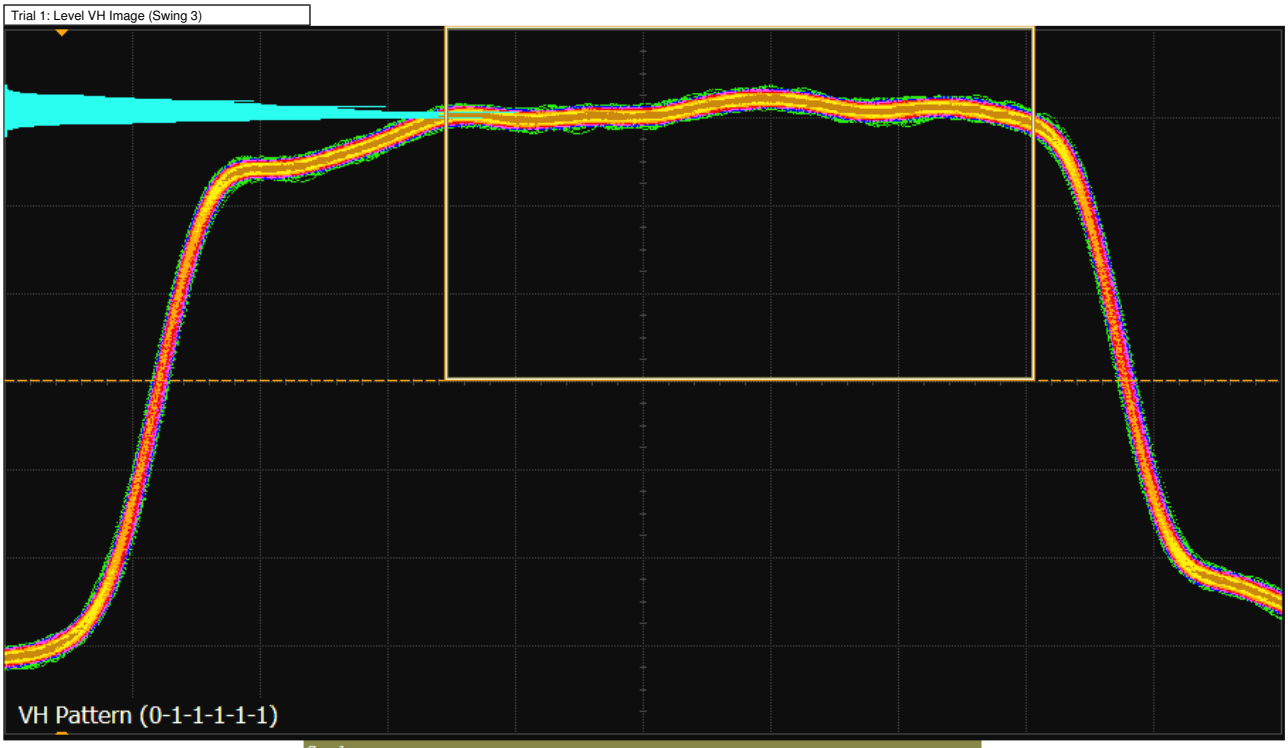
**VH Trigger Pattern** 011111 **VL Trigger Pattern** 100000 **VTop (Swing 3)** 481.132 mV **VBase (Swing 3)** -508.365 mV **VSwing (Swing 3)** 989.497 mV **VTop (Swing 2)** 382.349 mV

**VBase(Swing 2)** -406.953 mV **VSwing(Swing 2)** 789.302 mV **Test Mode** Compliance **Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source

**Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 3 **PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

**Trial 1**

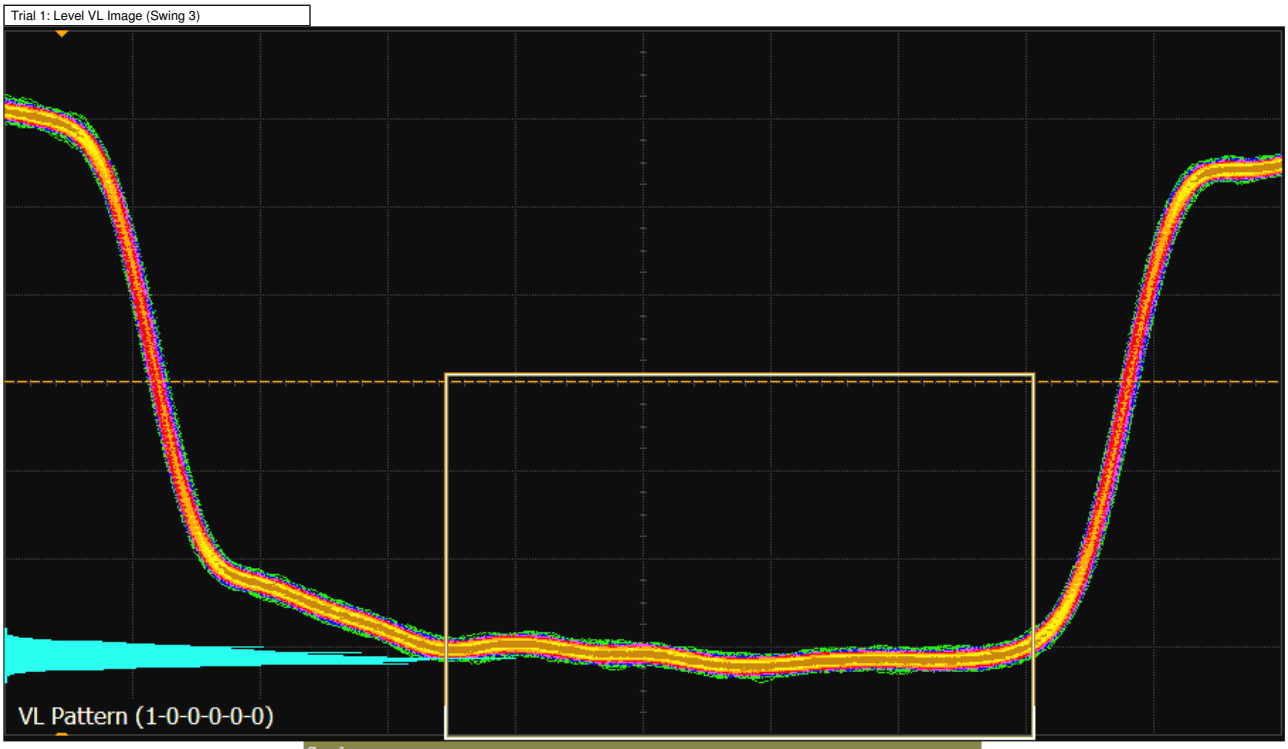
Trial 1: Level VH Image (Swing 3)




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 161.0 mV/div | -8.500 mV |

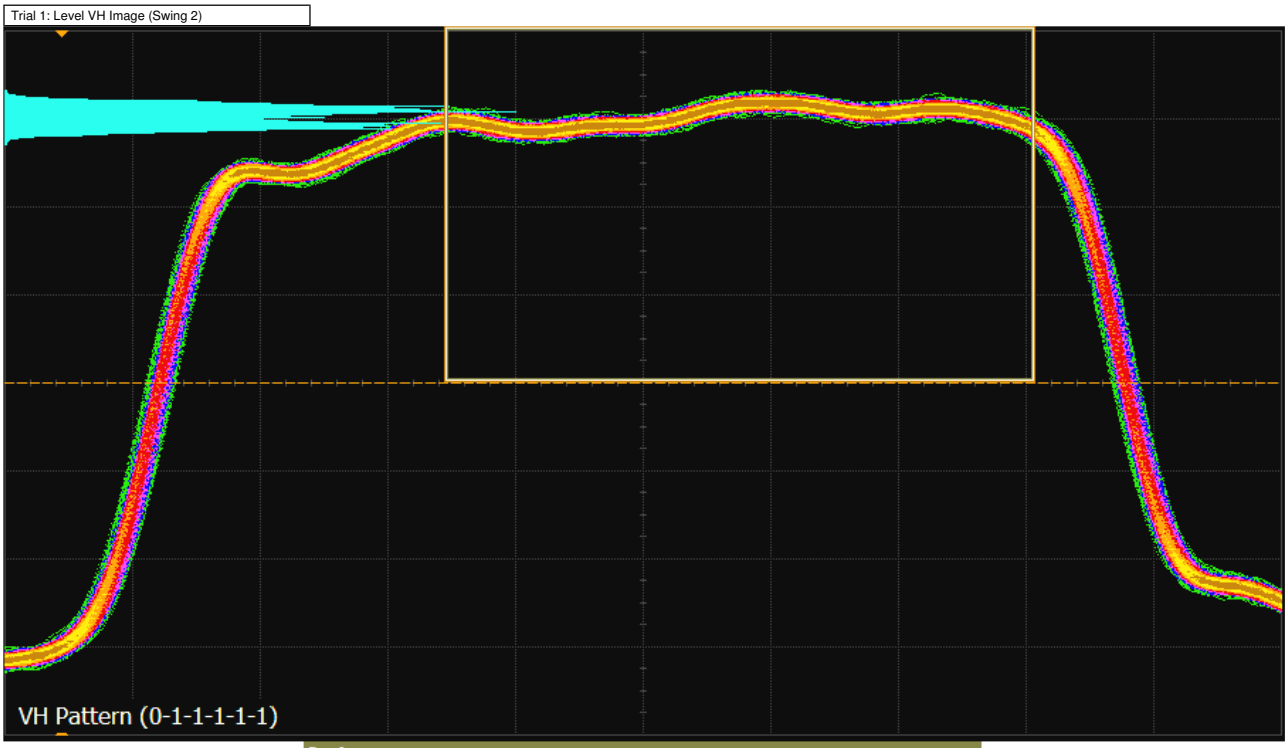
Trial 1: Level VL Image (Swing 3)



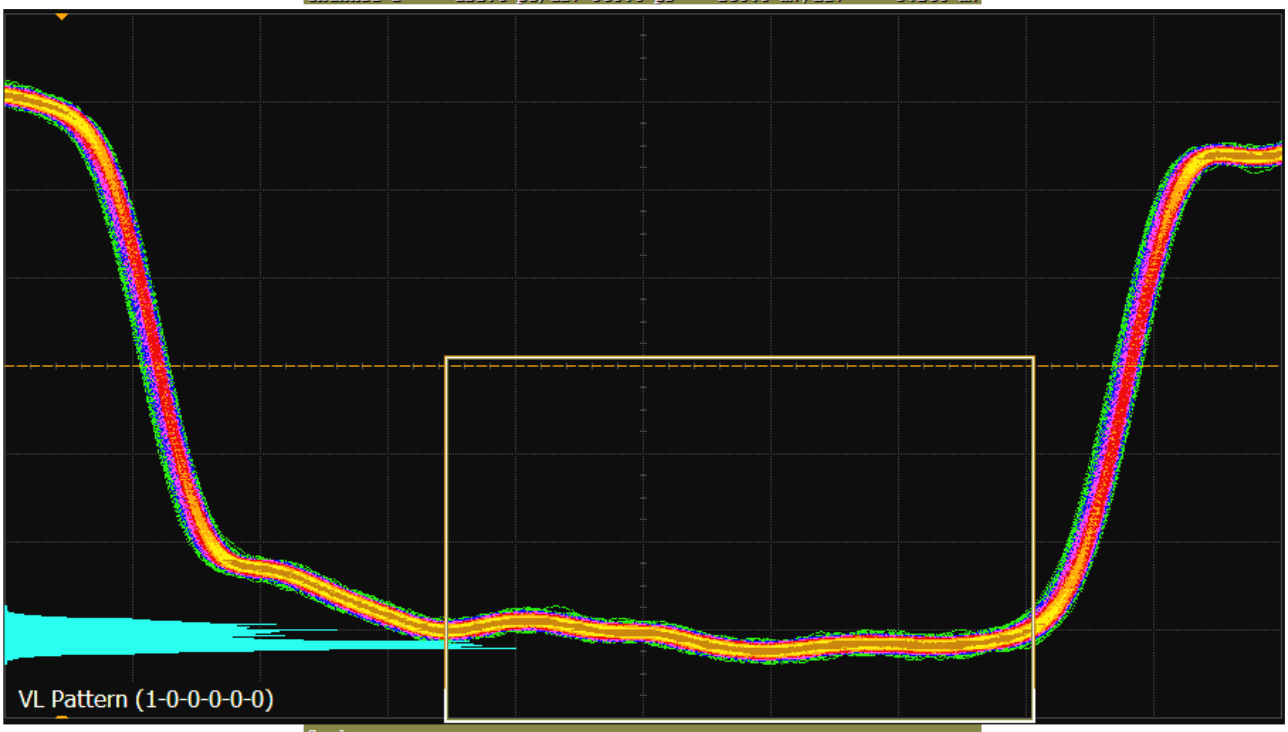

Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 161.0 mV/div | -8.500 mV |

Trial 1: Level VH Image (Swing 2)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 130.0 mV/div | -9.200 mV |




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 122.0 ps/div | 555.6 ps | 130.0 mV/div | -9.200 mV |

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

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

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

**Pass Limits:** [1.0000 dB to 4.4000 dB] | **Lane 1 Non-PreEmphasis Level Test (Swing 3/Swing 2)** 1.9420 dB

**Result Details**

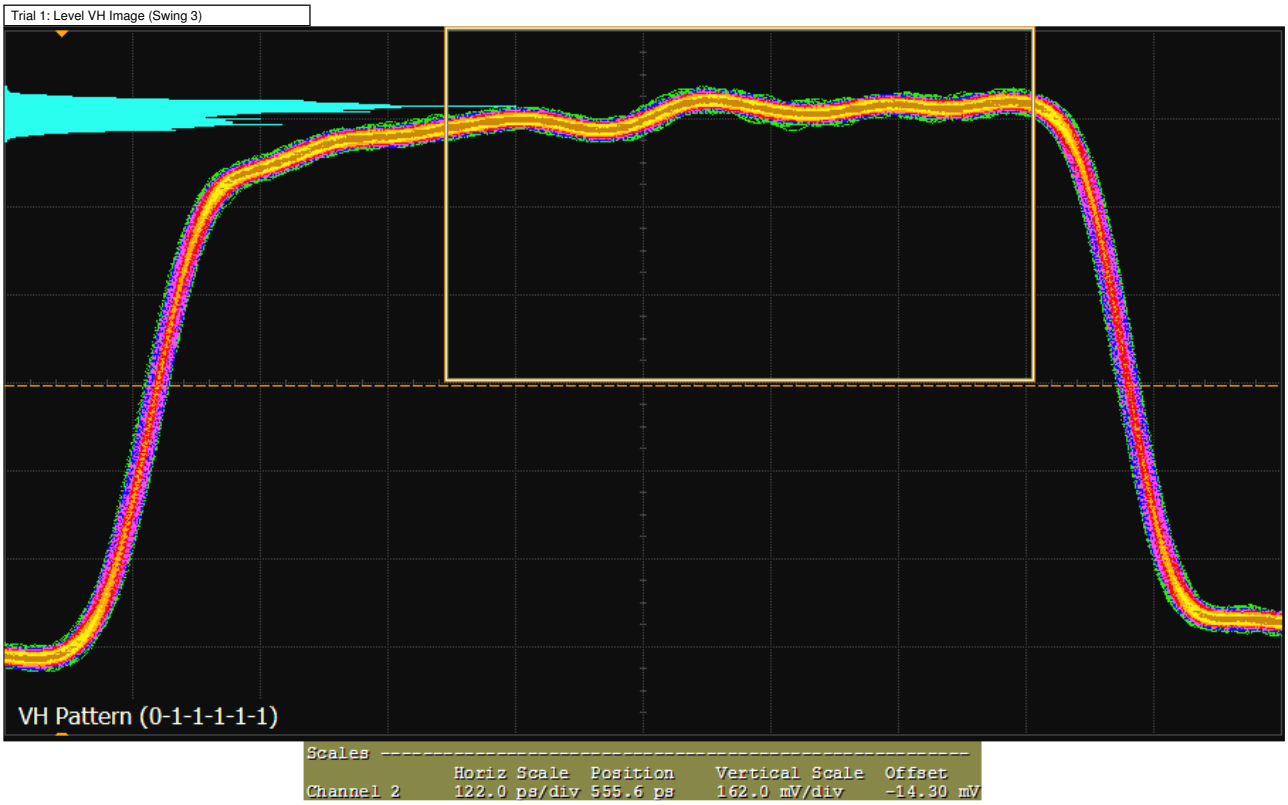
**Level VH Image (Swing 3)** (See image) | **Level VL Image (Swing 3)** (See image) | **Level VH Image (Swing 2)** (See image) | **Level VL Image (Swing 2)** (See image) | **Number of UI** 1000

**VH Trigger Pattern** 011111 | **VL Trigger Pattern** 100000 | **VTop (Swing 3)** 481.373 mV | **VBase (Swing 3)** -500.341 mV | **VSwing (Swing 3)** 981.714 mV | **VTop (Swing 2)** 381.989 mV

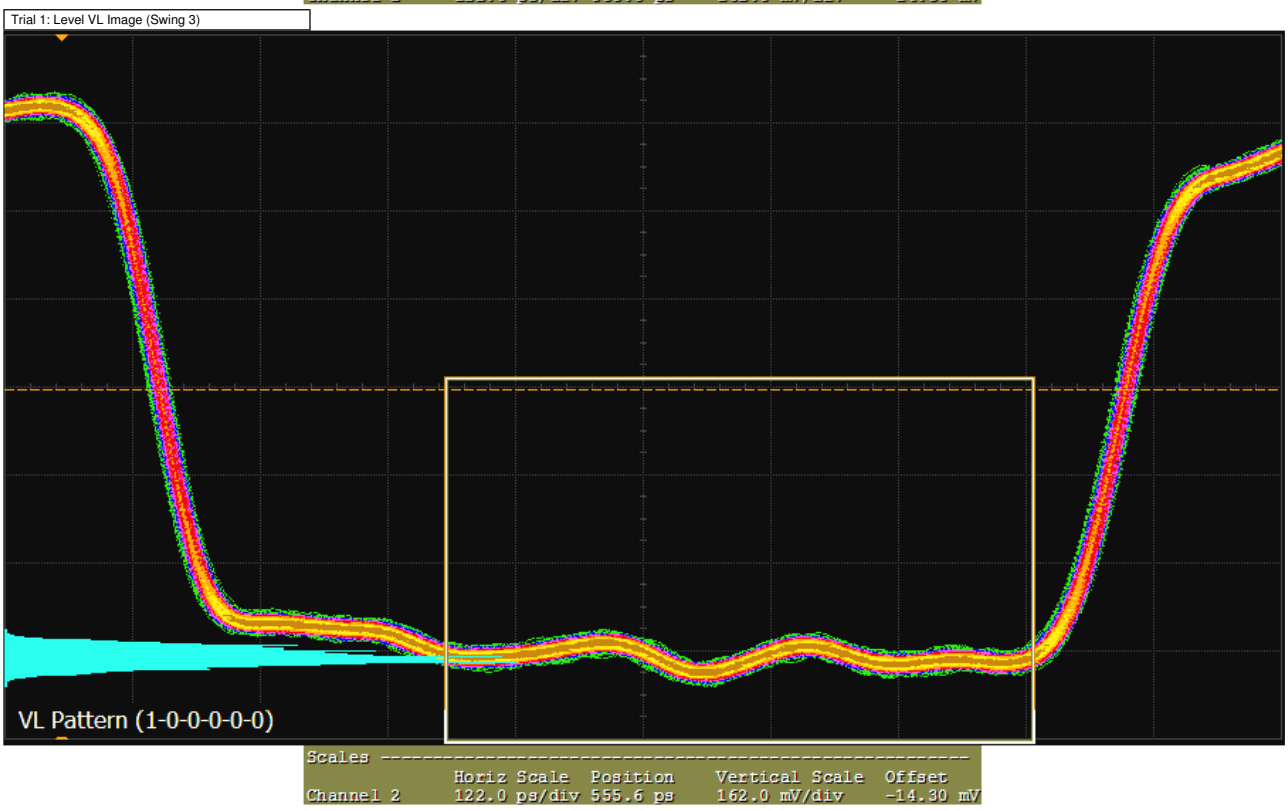
**VBase(Swing 2)** -403.042 mV | **VSwing(Swing 2)** 785.031 mV | **Test Mode** Compliance | **Test Layer** Physical Layer Tests | **Test Condition** Compliance Conditions Only | **DUT Type** Source

**Test Type** Differential Tests | **Connection Type** Differential Probe | **BitRate** 5.4 Gbps | **Level** Swing 3 | **PreEmphasis** Pre-emphasis 0 | **SSC** SSC Disabled | **PostCursor2** Level 0

**Trial 1**

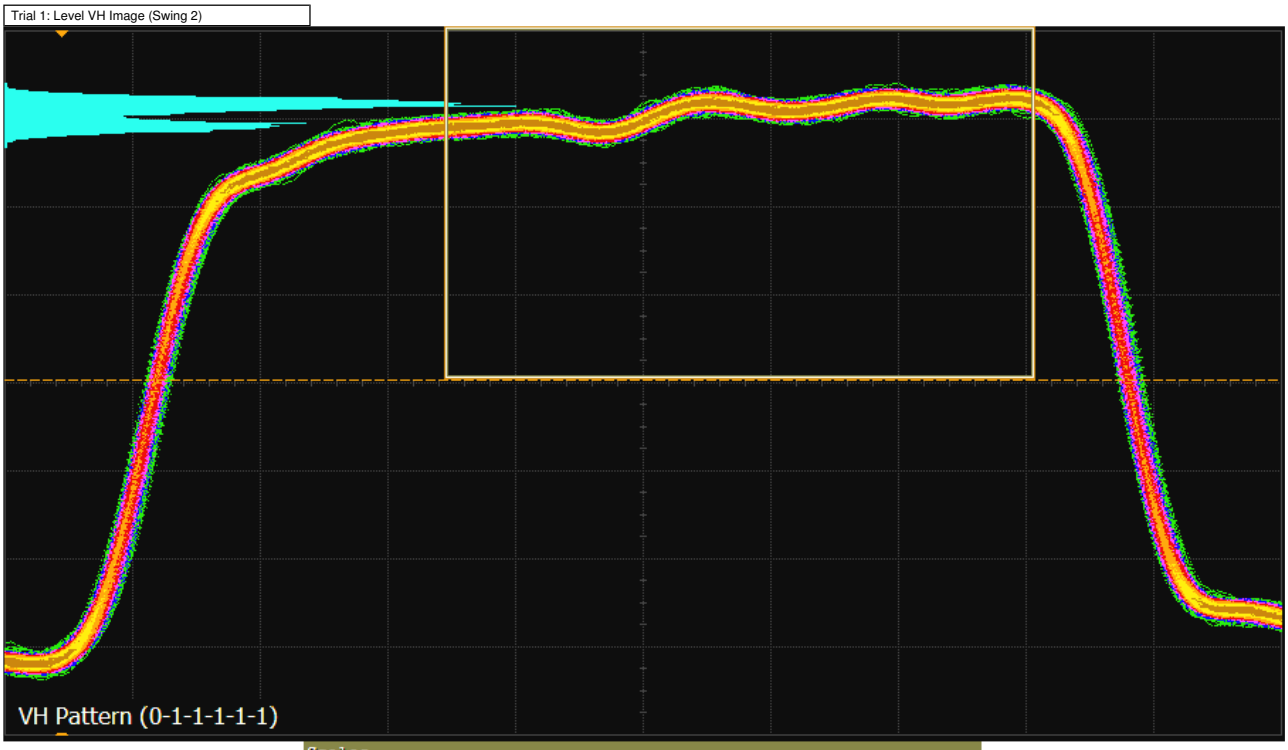



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 162.0 mV/div | -14.30 mV |




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 162.0 mV/div | -14.30 mV |

Trial 1: Level VH Image (Swing 2)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 122.0 ps/div | 555.6 ps | 132.0 mV/div | -7.900 mV |

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

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

Test Summary: Pass

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

**Pass Limits:** [1.0000 dB to 4.4000 dB] **Lane 2 Non-PreEmphasis Level Test (Swing 3/Swing 2)** 1.8821 dB

**Result Details**

**Level VH Image (Swing 3)** (See image) **Level VL Image (Swing 3)** (See image) **Level VH Image (Swing 2)** (See image) **Level VL Image (Swing 2)** (See image) **Number of UI** 1000

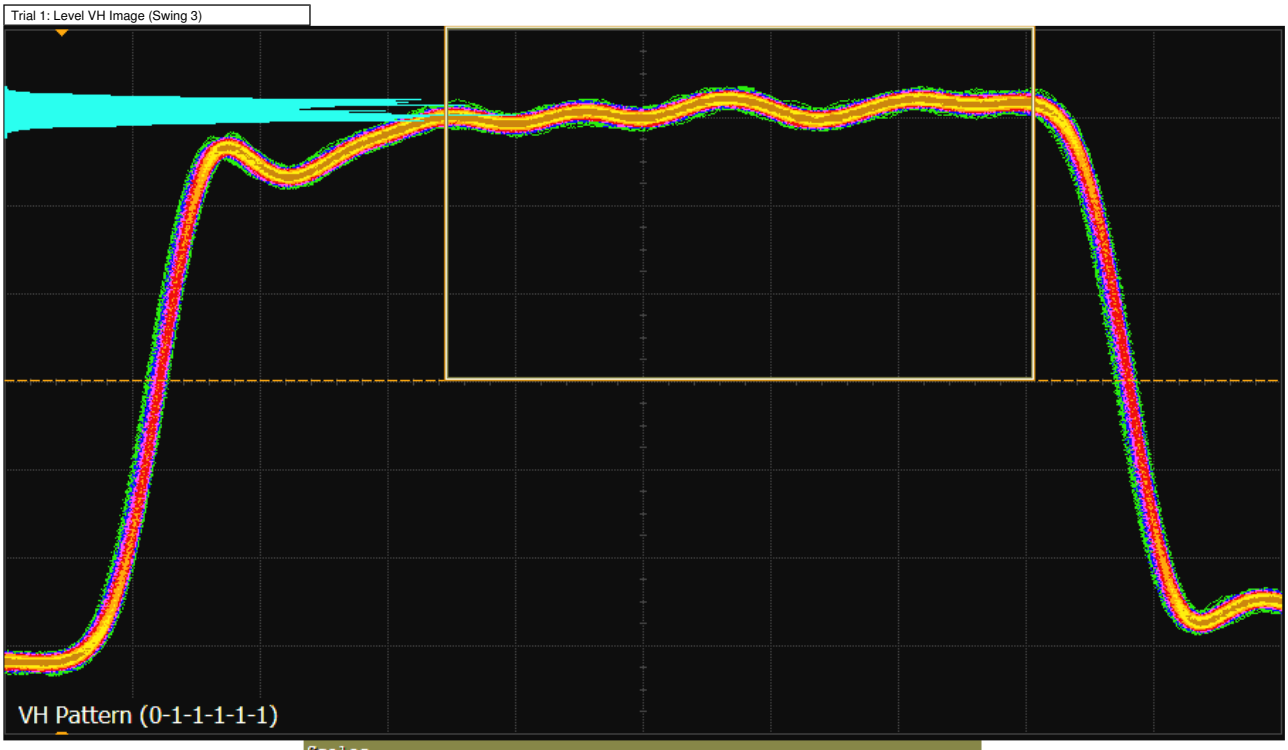
**VH Trigger Pattern** 011111 **VL Trigger Pattern** 100000 **VTop (Swing 3)** 486.366 mV **VBase (Swing 3)** -507.311 mV **VSwing (Swing 3)** 993.677 mV **VTop (Swing 2)** 389.754 mV

**VBase(Swing 2)** -410.343 mV **VSwing(Swing 2)** 800.097 mV **Test Mode** Compliance **Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source

**Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 3 **PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

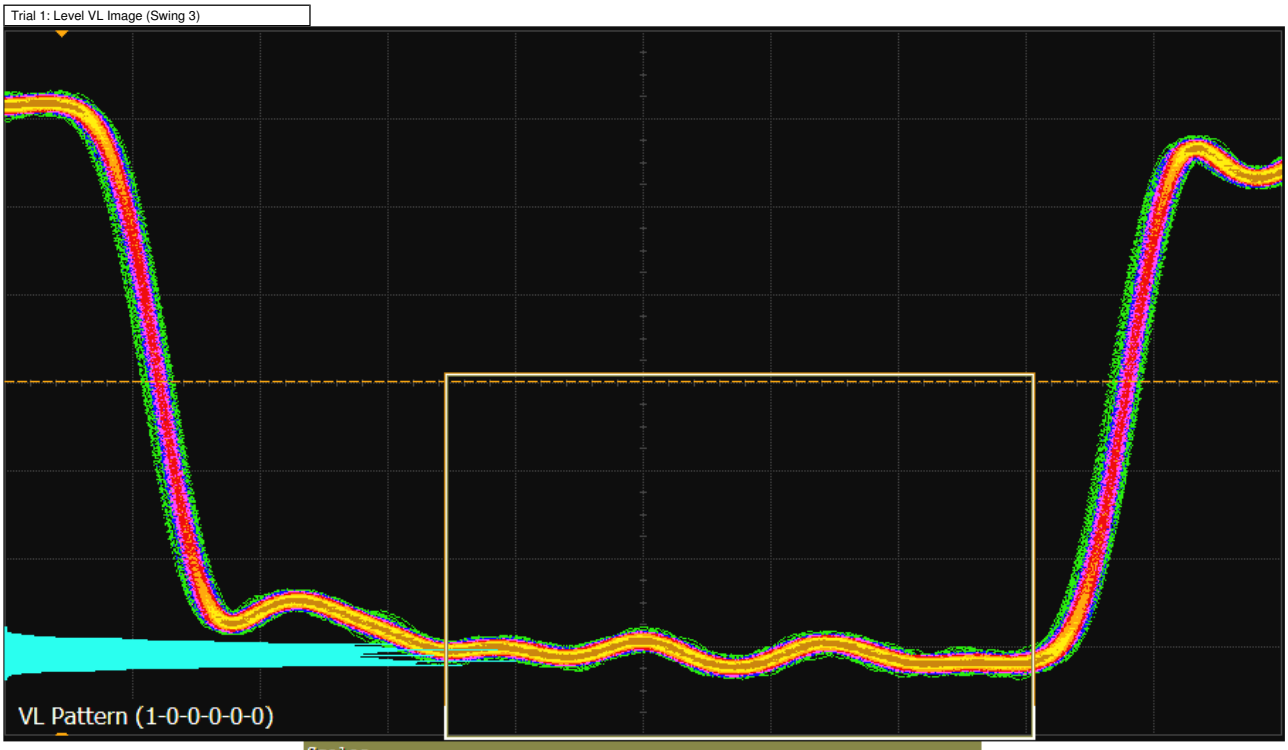
**Trial 1**

Trial 1: Level VH Image (Swing 3)



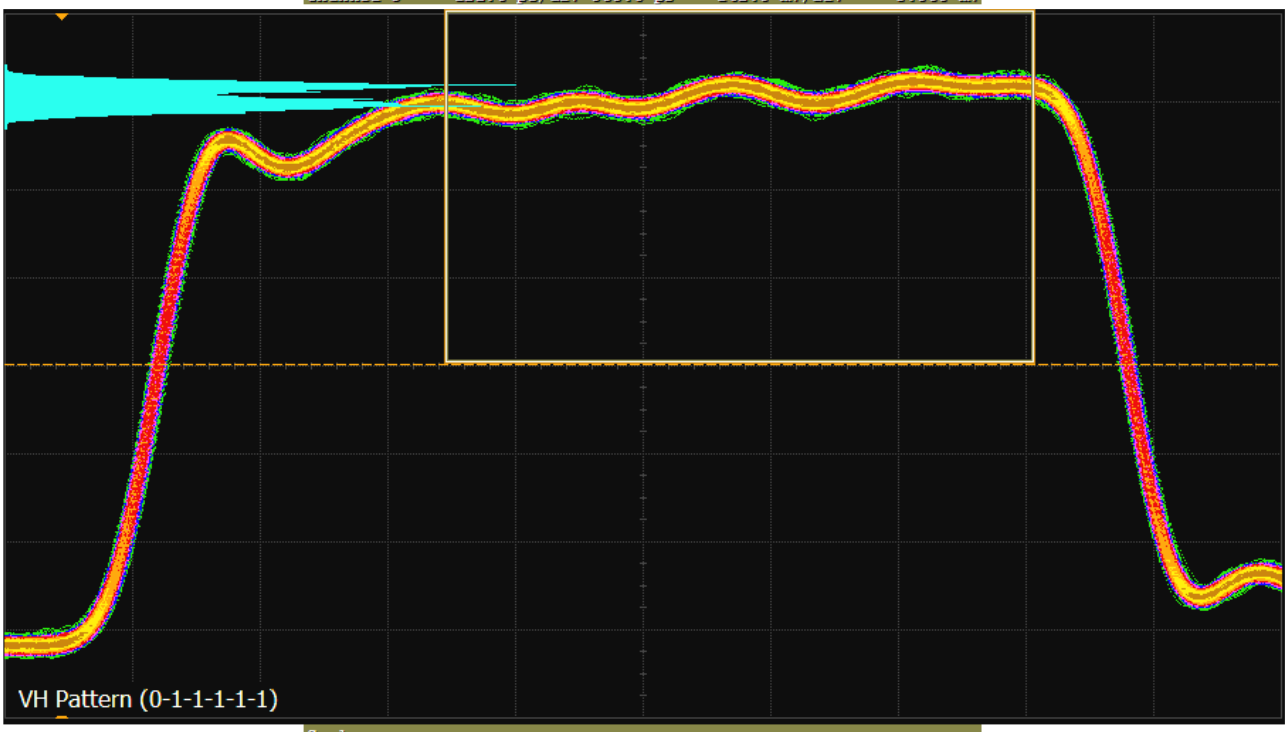

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 162.0 mV/div | -8.000 mV |

Trial 1: Level VL Image (Swing 3)




Scales

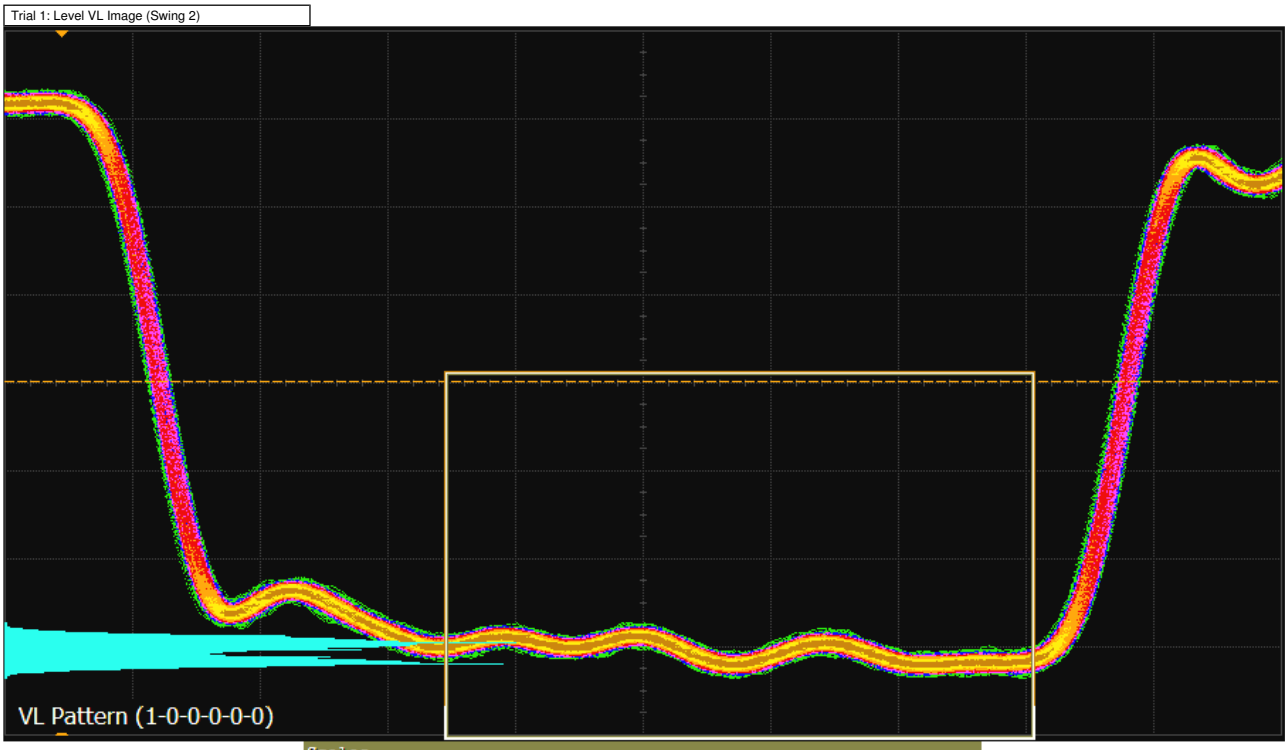
| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 162.0 mV/div | -8.000 mV |




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 134.0 mV/div | -7.800 mV |

Trial 1: Level VL Image (Swing 2)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 122.0 ps/div | 555.6 ps | 134.0 mV/div | -7.800 mV |

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

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

Test Summary: Pass

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

**Pass Limits:** [1.0000 dB to 4.4000 dB] **Lane 3 Non-PreEmphasis Level Test (Swing 3/Swing 2)** 2.0353 dB

### Result Details

**Level VH Image (Swing 3)** (See image) **Level VL Image (Swing 3)** (See image) **Level VH Image (Swing 2)** (See image) **Level VL Image (Swing 2)** (See image) **Number of UI** 1000

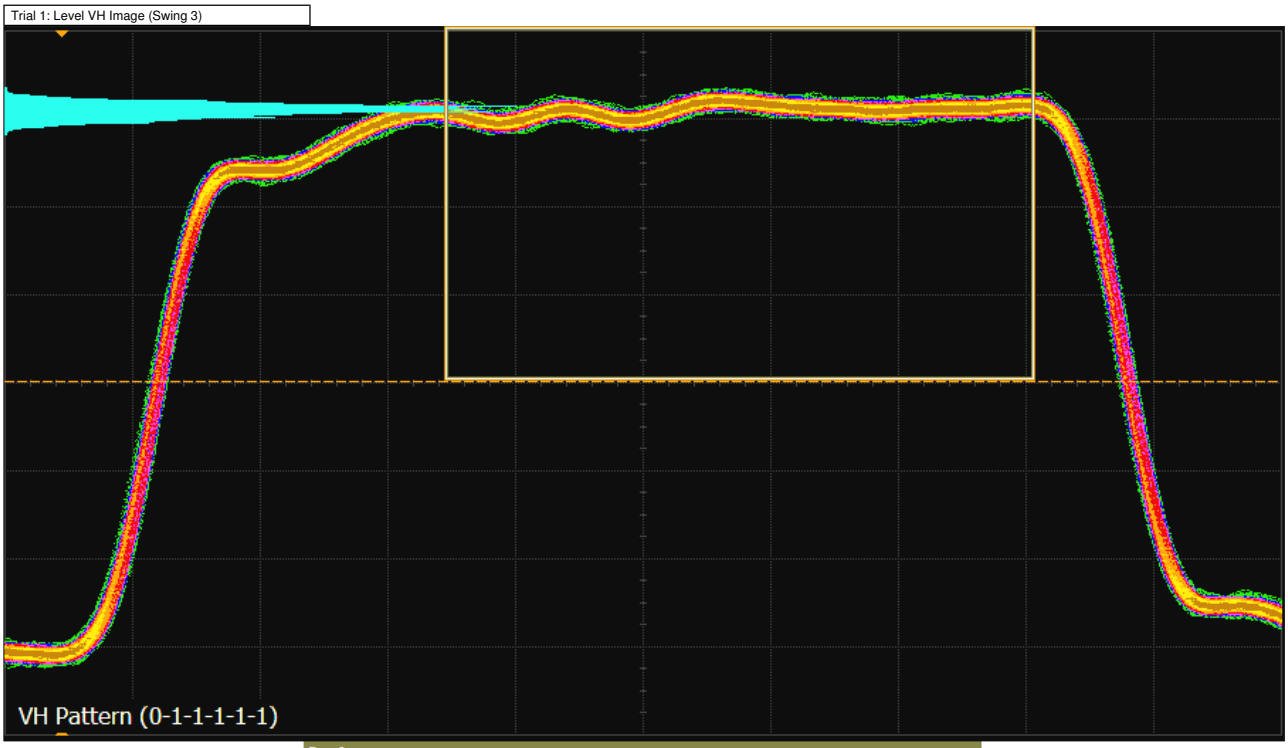
**VH Trigger Pattern** 011111 **VL Trigger Pattern** 100000 **VTop (Swing 3)** 490.643 mV **VBase (Swing 3)** -513.343 mV **VSwing (Swing 3)** 1.003986 V **VTop (Swing 2)** 386.243 mV

**VBase(Swing 2)** -408.020 mV **VSwing(Swing 2)** 794.263 mV **Test Mode** Compliance **Test Layer** Physical Layer Tests **Test Condition** Compliance Conditions Only **DUT Type** Source

**Test Type** Differential Tests **Connection Type** Differential Probe **BitRate** 5.4 Gbps **Level** Swing 3 **PreEmphasis** Pre-emphasis 0 **SSC** SSC Disabled **PostCursor2** Level 0

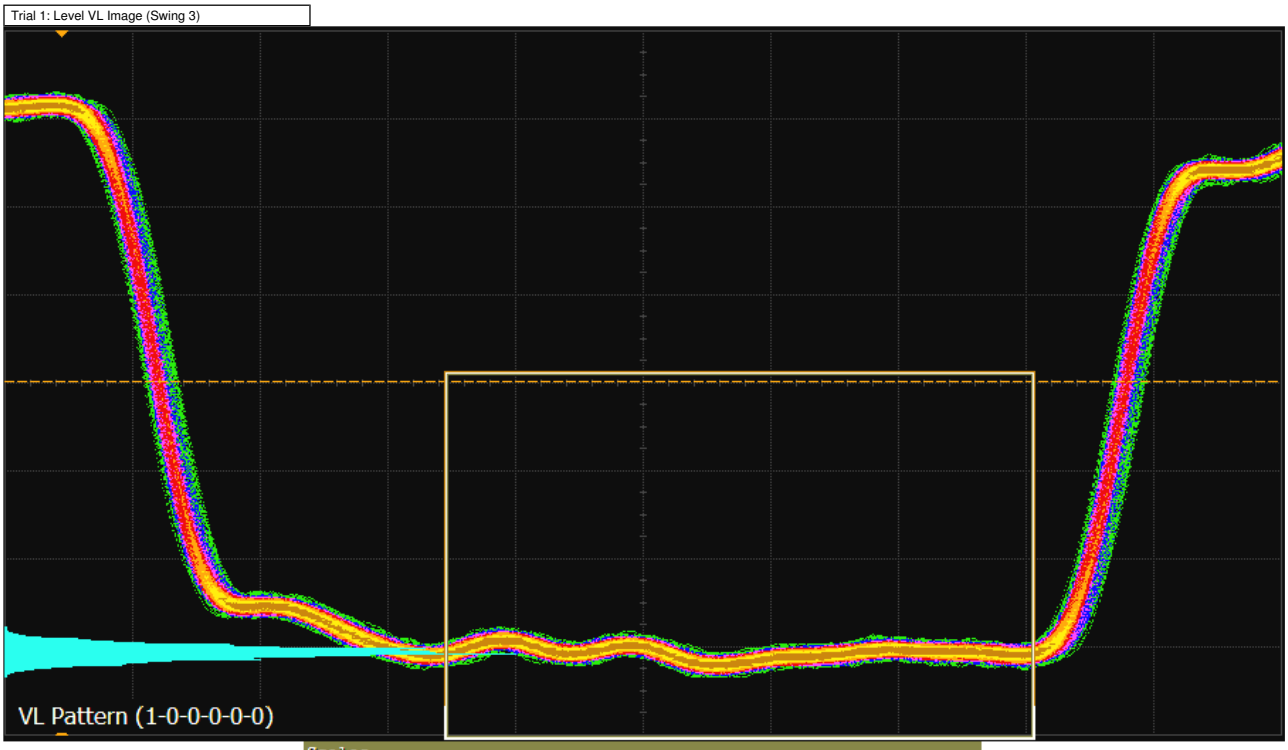
**Trial 1**

Trial 1: Level VH Image (Swing 3)

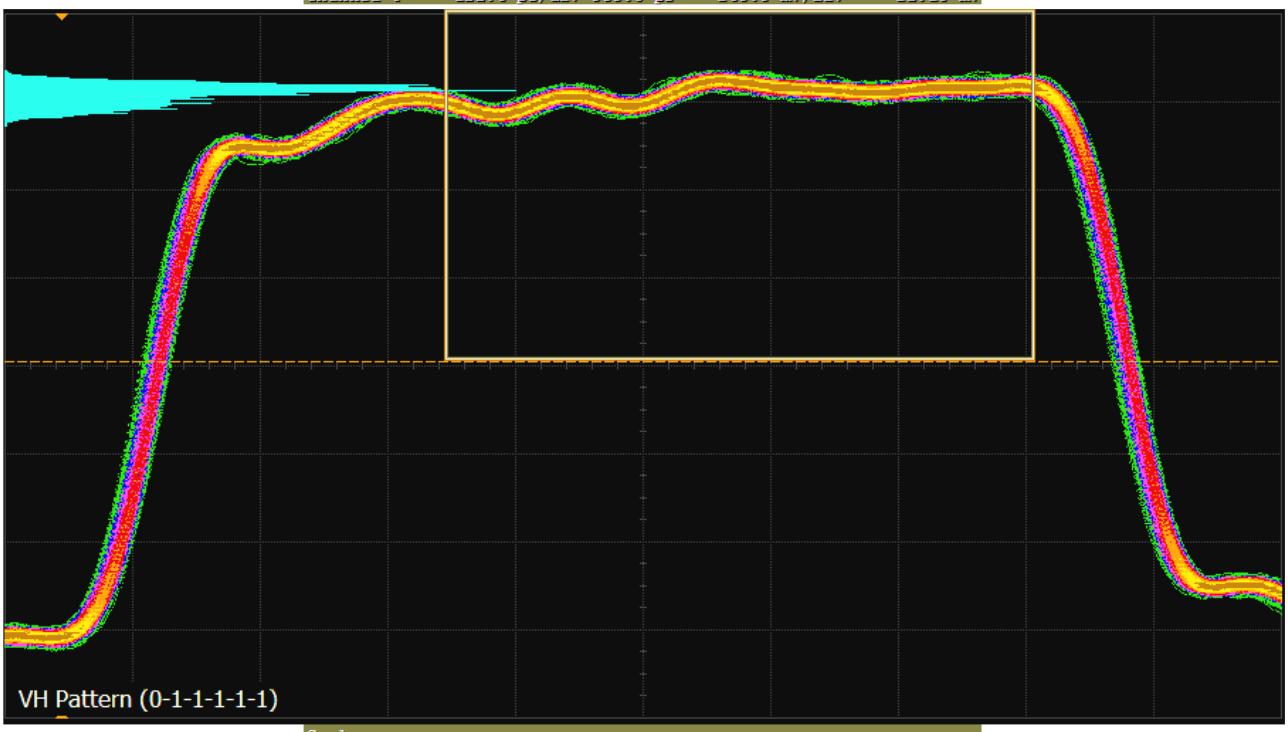



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 165.0 mV/div | -12.10 mV |

Trial 1: Level VL Image (Swing 3)

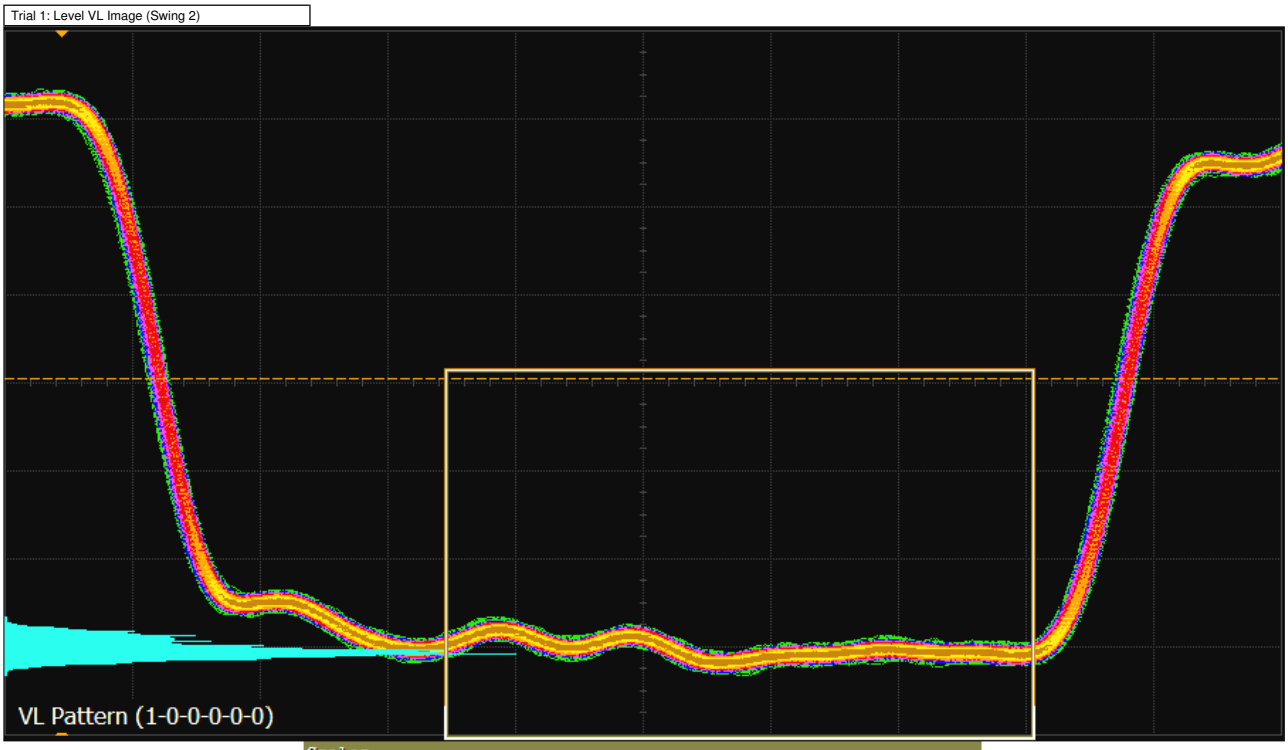



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 165.0 mV/div | -12.10 mV |




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 130.0 mV/div | -9.500 mV |

Trial 1: Level VL Image (Swing 2)




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 122.0 ps/div | 555.6 ps | 130.0 mV/div | -9.500 mV |

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## Lane 0 - Peak to Peak Voltage Test

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass  Test Description: To evaluate the Peak to Peak Voltage.

**Pass Limits:** <= 1.380 V | **Peak to Peak Voltage (Worst of 20 Trials)** 1.172 V | **# Trials Run:** 20 | **Worst Trial:** Trial 12

**Overall Summary + details of 20 worst trials**

| Pass | Trial | Actual Value | Margin | VMax | VMin | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *905.6 mV* | *34.38 %* | | | | | | | | | | | | | |
| | *StdDev* | *223.3 mV* | *16.19 %* | | | | | | | | | | | | | |
| | *Range* | *687.7 mV* | *49.86 %* | | | | | | | | | | | | | |
| | *Min* | *484.3 mV* | *15.07 %* | | | | | | | | | | | | | |
| | *Max* | *1.172 V* | *64.93 %* | | | | | | | | | | | | | |
| | *Sum* | *18.11 V* | *687.6 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 | 924 mV | 33.0% | 447.100 mV | -476.540 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 1.130 V | 18.1% | 553.540 mV | -576.340 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | 686 mV | 50.3% | 330.000 mV | -356.030 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | 969 mV | 29.8% | 471.950 mV | -496.750 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 5 | 1.018 V | 26.2% | 494.150 mV | -523.890 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 6 | 484 mV | 64.9% | 231.460 mV | -252.790 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 7 | 694 mV | 49.7% | 332.310 mV | -362.110 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 8 | 738 mV | 46.5% | 355.690 mV | -382.690 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 9 | 1.081 V | 21.7% | 527.650 mV | -553.640 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 10 | 1.146 V | 17.0% | 559.840 mV | -586.290 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 11 | 960 mV | 30.4% | 464.670 mV | -494.980 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 12 (Worst) | 1.172 V | 15.1% | 575.660 mV | -596.280 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 13 | 708 mV | 48.7% | 342.340 mV | -365.540 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 14 | 1.020 V | 26.1% | 499.320 mV | -521.150 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 15 | 1.077 V | 22.0% | 527.510 mV | -549.580 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 16 | 492 mV | 64.3% | 231.960 mV | -259.660 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 17 | 726 mV | 47.4% | 352.080 mV | -374.310 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 18 | 786 mV | 43.0% | 384.470 mV | -401.980 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 19 | 1.133 V | 17.9% | 554.440 mV | -578.110 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 20 | 1.167 V | 15.4% | 567.140 mV | -600.340 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

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## Lane 1 - Peak to Peak Voltage Test

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass  Test Description: To evaluate the peak to peak voltage.

**Pass Limits:** <= 1.380 V | **Peak to Peak Voltage (Worst of 20 Trials)** 1.180 V | **# Trials Run:** 20 | **Worst Trial:** Trial 20

**Overall Summary + details of 20 worst trials**

| Pass | Trial | Actual Value | Margin | VMax | VMin | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *870.9 mV* | *36.89 %* | | | | | | | | | | | | | |
| | *StdDev* | *217.7 mV* | *15.77 %* | | | | | | | | | | | | | |
| | *Range* | *685.9 mV* | *49.71 %* | | | | | | | | | | | | | |
| | *Min* | *494.0 mV* | *14.49 %* | | | | | | | | | | | | | |
| | *Max* | *1.180 V* | *64.20 %* | | | | | | | | | | | | | |
| | *Sum* | *17.42 V* | *737.8 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 | 944 mV | 31.6% | 462.820 mV | -480.920 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 1.045 V | 24.3% | 517.500 mV | -527.500 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | 704 mV | 49.0% | 347.450 mV | -356.670 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | 849 mV | 38.5% | 418.070 mV | -431.410 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 5 | 1.021 V | 26.0% | 493.950 mV | -527.020 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 6 | 499 mV | 63.8% | 241.660 mV | -257.220 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 7 | 601 mV | 56.4% | 292.780 mV | -308.010 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 8 | 744 mV | 46.1% | 355.510 mV | -388.150 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 9 | 1.048 V | 24.1% | 522.400 mV | -525.800 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 10 | 1.150 V | 16.7% | 571.540 mV | -578.580 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 11 | 951 mV | 31.1% | 474.530 mV | -476.080 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 12 | 1.070 V | 22.5% | 539.710 mV | -530.610 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 13 | 708 mV | 48.7% | 348.080 mV | -359.790 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 14 | 862 mV | 37.5% | 430.510 mV | -431.860 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 15 | 1.085 V | 21.4% | 537.810 mV | -546.980 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 16 | 494 mV | 64.2% | 241.560 mV | -252.390 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 17 | 604 mV | 56.2% | 300.000 mV | -303.740 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 18 | 784 mV | 43.2% | 383.750 mV | -400.190 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 19 | 1.075 V | 22.1% | 539.560 mV | -535.860 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 20 (Worst) | 1.180 V | 14.5% | 589.270 mV | -590.560 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

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## Lane 2 - Peak to Peak Voltage Test

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass  Test Description: To evaluate the peak to peak voltage.

**Pass Limits:** <= 1.380 V | **Peak to Peak Voltage (Worst of 20 Trials)** 1.176 V | **# Trials Run:** 20 | **Worst Trial:** Trial 20

**Overall Summary + details of 20 worst trials**

| Pass | Trial | Actual Value | Margin | VMax | VMin | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *900.4 mV* | *34.75 %* | | | | | | | | | | | | | |
| | *StdDev* | *211.5 mV* | *15.33 %* | | | | | | | | | | | | | |
| | *Range* | *667.3 mV* | *48.33 %* | | | | | | | | | | | | | |
| | *Min* | *508.6 mV* | *14.78 %* | | | | | | | | | | | | | |
| | *Max* | *1.176 V* | *63.12 %* | | | | | | | | | | | | | |
| | *Sum* | *18.01 V* | *695.0 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 | 964 mV | 30.1% | 474.670 mV | -489.560 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 1.086 V | 21.3% | 529.040 mV | -557.420 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | 716 mV | 48.1% | 349.340 mV | -366.870 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | 915 mV | 33.7% | 446.060 mV | -468.460 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 5 | 1.100 V | 20.3% | 534.710 mV | -565.320 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 6 | 509 mV | 63.1% | 245.960 mV | -262.630 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 7 | 653 mV | 52.7% | 314.950 mV | -337.670 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 8 | 833 mV | 39.6% | 404.010 mV | -429.210 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 9 | 1.069 V | 22.5% | 530.540 mV | -538.070 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 10 | 1.146 V | 17.0% | 567.520 mV | -578.610 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 11 | 964 mV | 30.1% | 476.730 mV | -487.530 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 12 | 1.093 V | 20.8% | 537.420 mV | -555.820 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 13 | 720 mV | 47.8% | 354.330 mV | -365.440 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 14 | 908 mV | 34.2% | 442.910 mV | -464.830 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 15 | 1.084 V | 21.4% | 531.150 mV | -552.720 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 16 | 509 mV | 63.1% | 244.080 mV | -265.060 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 17 | 657 mV | 52.4% | 319.510 mV | -337.580 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 18 | 835 mV | 39.5% | 408.600 mV | -426.610 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 19 | 1.072 V | 22.3% | 532.120 mV | -539.750 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 20 (Worst) | 1.176 V | 14.8% | 588.450 mV | -587.450 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

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## Lane 3 - Peak to Peak Voltage Test

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass  Test Description: To evaluate the peak to peak voltage.

**Pass Limits:** <= 1.380 V | **Peak to Peak Voltage (Worst of 20 Trials)** 1.154 V | **# Trials Run:** 20 | **Worst Trial:** Trial 10

**Overall Summary + details of 20 worst trials**

| Pass | Trial | Actual Value | Margin | VMax | VMin | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *843.1 mV* | *38.91 %* | | | | | | | | | | | | | |
| | *StdDev* | *224.3 mV* | *16.24 %* | | | | | | | | | | | | | |
| | *Range* | *685.1 mV* | *49.64 %* | | | | | | | | | | | | | |
| | *Min* | *469.2 mV* | *16.38 %* | | | | | | | | | | | | | |
| | *Max* | *1.154 V* | *66.01 %* | | | | | | | | | | | | | |
| | *Sum* | *16.86 V* | *778.3 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 | 921 mV | 33.3% | 441.600 mV | -479.830 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 1.033 V | 25.1% | 500.460 mV | -532.830 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | 683 mV | 50.5% | 324.940 mV | -357.800 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | 836 mV | 39.4% | 399.600 mV | -436.400 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 5 | 962 mV | 30.3% | 463.450 mV | -498.530 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 6 | 480 mV | 65.2% | 224.750 mV | -255.080 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 7 | 591 mV | 57.2% | 280.300 mV | -310.500 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 8 | 683 mV | 50.5% | 324.530 mV | -358.040 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 9 | 1.096 V | 20.6% | 532.570 mV | -563.740 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 10 (Worst) | 1.154 V | 16.4% | 565.190 mV | -589.160 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 11 | 917 mV | 33.6% | 447.860 mV | -468.840 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 12 | 1.042 V | 24.5% | 514.690 mV | -527.240 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 13 | 673 mV | 51.2% | 327.020 mV | -345.820 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 14 | 826 mV | 40.1% | 403.330 mV | -423.130 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 15 | 964 mV | 30.1% | 472.660 mV | -491.570 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 16 | 469 mV | 66.0% | 224.500 mV | -244.740 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 17 | 585 mV | 57.6% | 283.550 mV | -301.150 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 18 | 679 mV | 50.8% | 331.670 mV | -347.640 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 19 | 1.119 V | 18.9% | 555.820 mV | -563.080 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 20 | 1.147 V | 16.9% | 566.130 mV | -581.330 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

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## Lane 0 - Eye Diagram Test

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass

Test Description: To evaluate the waveform to ensure that timing variabilities and amplitude trajectories are such to support the overall DisplayPort system objectives of Bit Error Rate in data transmission.

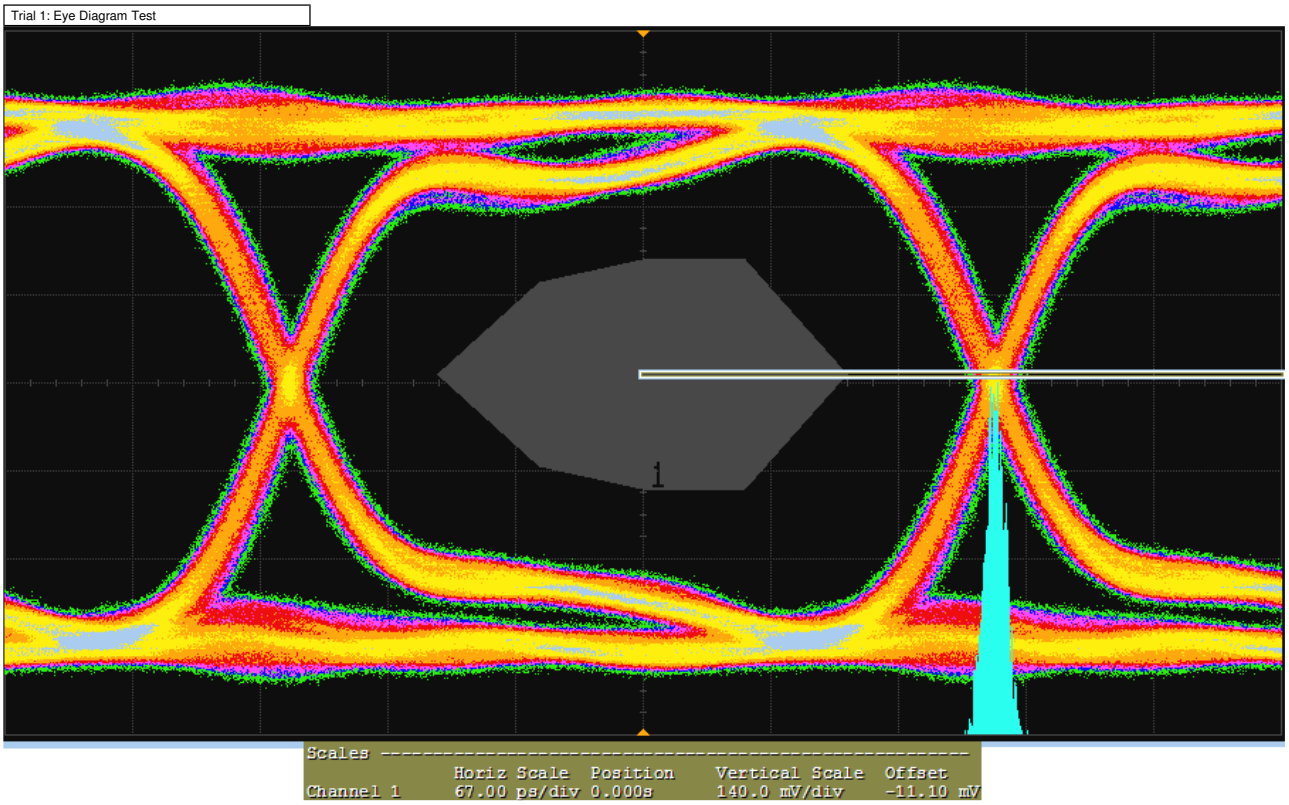
**Pass Limits:** [-500 m to 500 m] | **Eye Diagram Test (Worst of 2 Trials)** 0.000 | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | Number of UI | Left Jitter | Right Jitter | VTop | VBase | VSwing | Mask Type | Mask Scalling Option | Mask Movement Option | Mask Movement Margin (Horizontal) | Mask Movement Margin (Vertical) | Measured Eye Height | Measured Eye Width | Vertical Scale | Test Mode | Test Layer | Test Condition | DUT Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *0.000* | *50.00 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *0.000* | *0.000 %* | | | | | | | | | | | | | | | | | | |
| | *Range* | *0.000* | *0.000 %* | | | | | | | | | | | | | | | | | | |
| | *Min* | *0.000* | *50.00 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *0.000* | *50.00 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *0.000* | *100.0 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 0.000 | 50.0% | 256000 | 32.7600 ps | 33.5000 ps | 397.440 mV | -422.410 mV | 819.850 mV | TP2 | Absolute | Fixed | 0.0000000000000 s | 0.000 V | 590.040 mV | 337.601 ps | 140.000 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source |
| ✓ | Trial 2 | 0.000 | 50.0% | 256000 | 40.7000 ps | 39.4700 ps | 396.092 mV | -418.110 mV | 814.202 mV | TP2 | Absolute | Fixed | 0.0000000000000 s | 0.000 V | 702.730 mV | 576.574 ps | 142.500 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source |

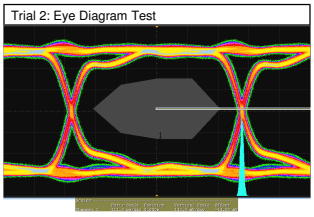
**Trial 1**

Trial 1: Eye Diagram Test




**Trial 2**

Trial 2: Eye Diagram Test



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## Lane 1 - Eye Diagram Test

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass

Test Description: To evaluate the waveform to ensure that timing variabilities and amplitude trajectories are such to support the overall DisplayPort system objectives of Bit Error Rate in data transmission.

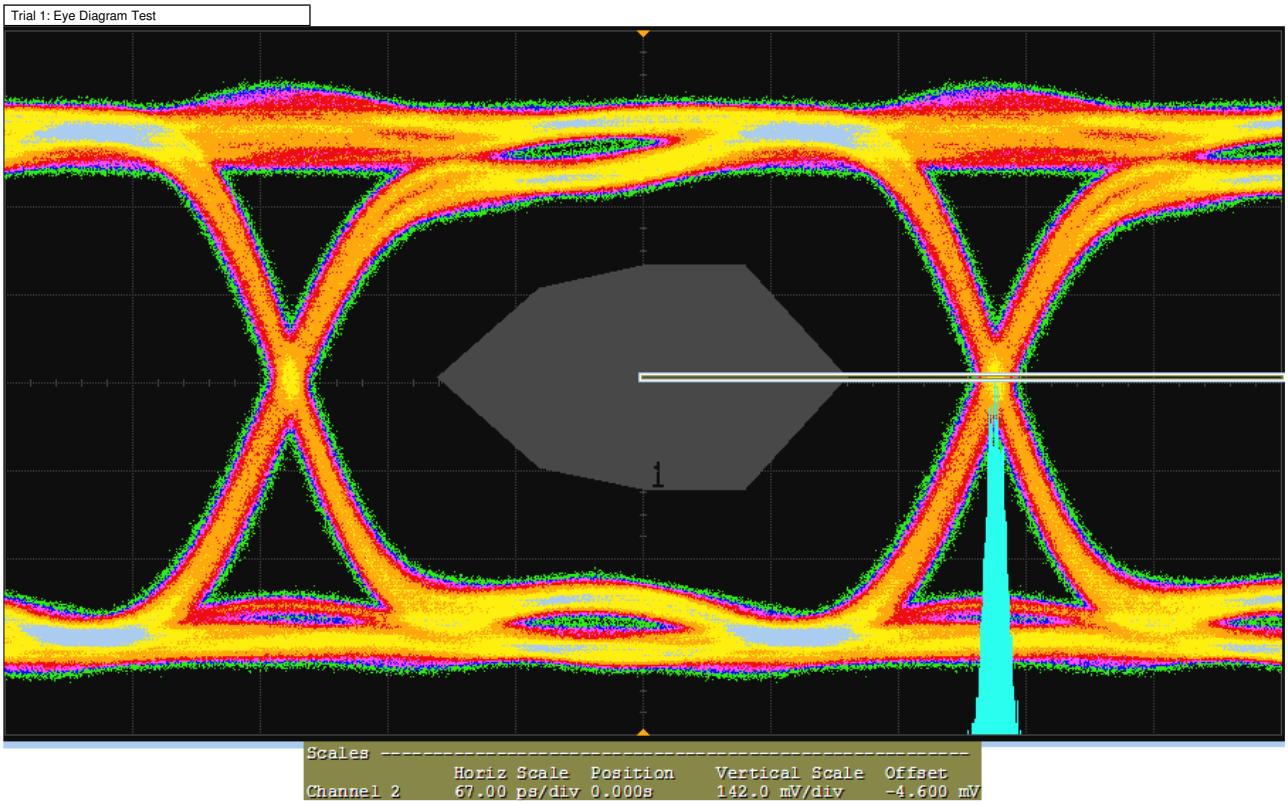
**Pass Limits:** [-500 m to 500 m] | **Eye Diagram Test (Worst of 2 Trials)** 0.000 | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | Number of UI | Left Jitter | Right Jitter | VTop | VBase | VSwing | Mask Type | Mask Scalling Option | Mask Movement Option | Mask Movement Margin (Horizontal) | Mask Movement Margin (Vertical) | Measured Eye Height | Measured Eye Width | Vertical Scale | Test Mode | Test Layer | Test Condition | DUT Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *0.000* | *50.00 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *0.000* | *0.000 %* | | | | | | | | | | | | | | | | | | |
| | *Range* | *0.000* | *0.000 %* | | | | | | | | | | | | | | | | | | |
| | *Min* | *0.000* | *50.00 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *0.000* | *50.00 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *0.000* | *100.0 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 0.000 | 50.0% | 256000 | 27.5400 ps | 26.8000 ps | 401.220 mV | -418.548 mV | 819.768 mV | TP2 | Absolute | Fixed | 0.0000000000000 s | 0.000 V | 618.710 mV | 342.821 ps | 142.500 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source |
| ✓ | Trial 2 | 0.000 | 50.0% | 256000 | 39.4700 ps | 39.4700 ps | 398.058 mV | -416.513 mV | 814.571 mV | TP2 | Absolute | Fixed | 0.0000000000000 s | 0.000 V | 678.870 mV | 577.806 ps | 142.500 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source |

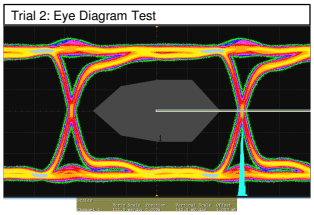
**Trial 1**

Trial 1: Eye Diagram Test




**Trial 2**

Trial 2: Eye Diagram Test



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## Lane 2 - Eye Diagram Test

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass

Test Description: To evaluate the waveform to ensure that timing variabilities and amplitude trajectories are such to support the overall DisplayPort system objectives of Bit Error Rate in data transmission.

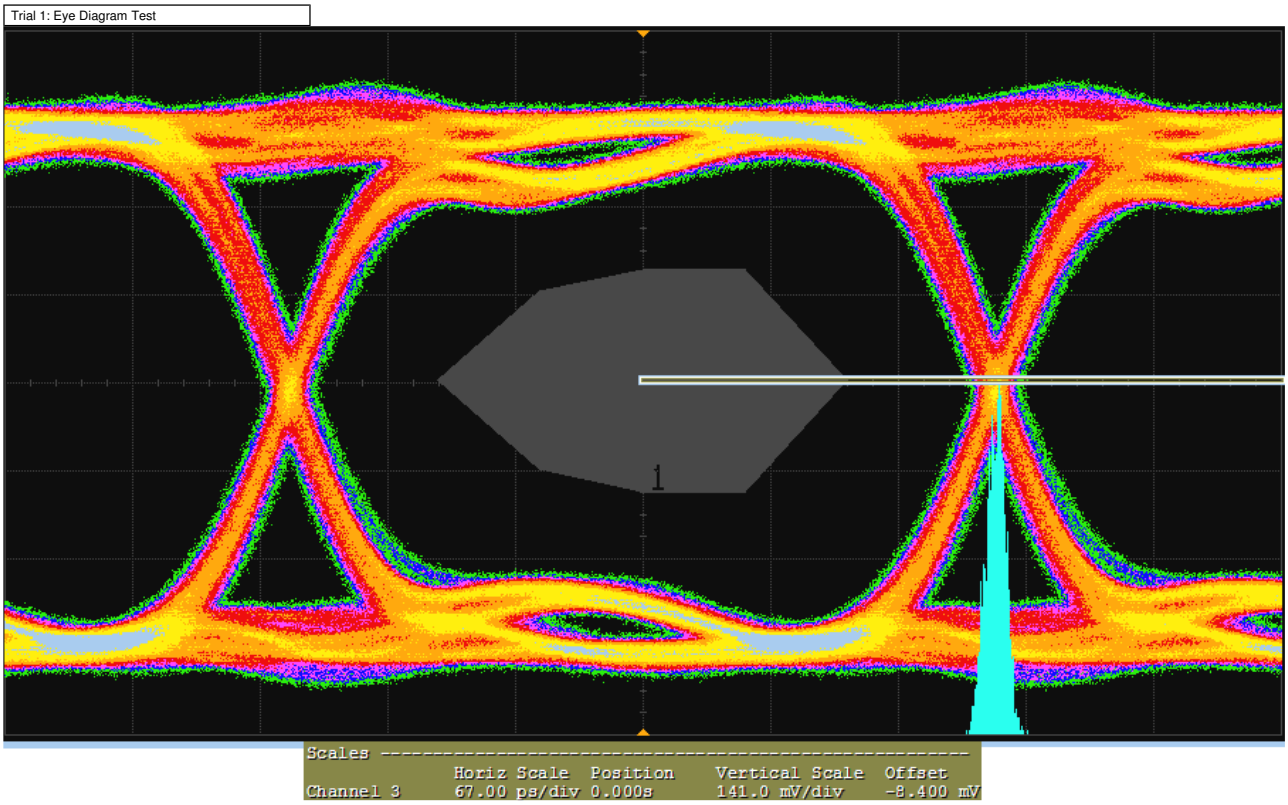
**Pass Limits:** [-500 m to 500 m] | **Eye Diagram Test (Worst of 2 Trials)** 0.000 | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | Number of UI | Left Jitter | Right Jitter | VTop | VBase | VSwing | Mask Type | Mask Scalling Option | Mask Movement Option | Mask Movement Margin (Horizontal) | Mask Movement Margin (Vertical) | Measured Eye Height | Measured Eye Width | Vertical Scale | Test Mode | Test Layer | Test Condition | DUT Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *0.000* | *50.00 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *0.000* | *0.000 %* | | | | | | | | | | | | | | | | | | |
| | *Range* | *0.000* | *0.000 %* | | | | | | | | | | | | | | | | | | |
| | *Min* | *0.000* | *50.00 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *0.000* | *50.00 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *0.000* | *100.0 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 0.000 | 50.0% | 256000 | 32.0100 ps | 32.0100 ps | 401.228 mV | -427.992 mV | 829.219 mV | TP2 | Absolute | Fixed | 0.0000000000000 s | 0.000 V | 632.130 mV | 338.350 ps | 141.250 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source |
| ✓ | Trial 2 | 0.000 | 50.0% | 256000 | 40.7000 ps | 40.7000 ps | 398.274 mV | -416.661 mV | 814.935 mV | TP2 | Absolute | Fixed | 0.0000000000000 s | 0.000 V | 686.450 mV | 576.572 ps | 145.000 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source |

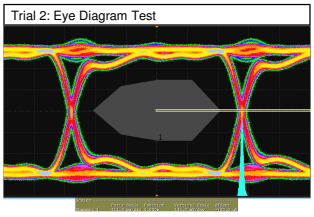
**Trial 1**

Trial 1: Eye Diagram Test




**Trial 2**

Trial 2: Eye Diagram Test



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## Lane 3 - Eye Diagram Test

*Reference: DisplayPort CTS Sec. 3.1*

Test Summary: Pass

Test Description: To evaluate the waveform to ensure that timing variabilities and amplitude trajectories are such to support the overall DisplayPort system objectives of Bit Error Rate in data transmission.

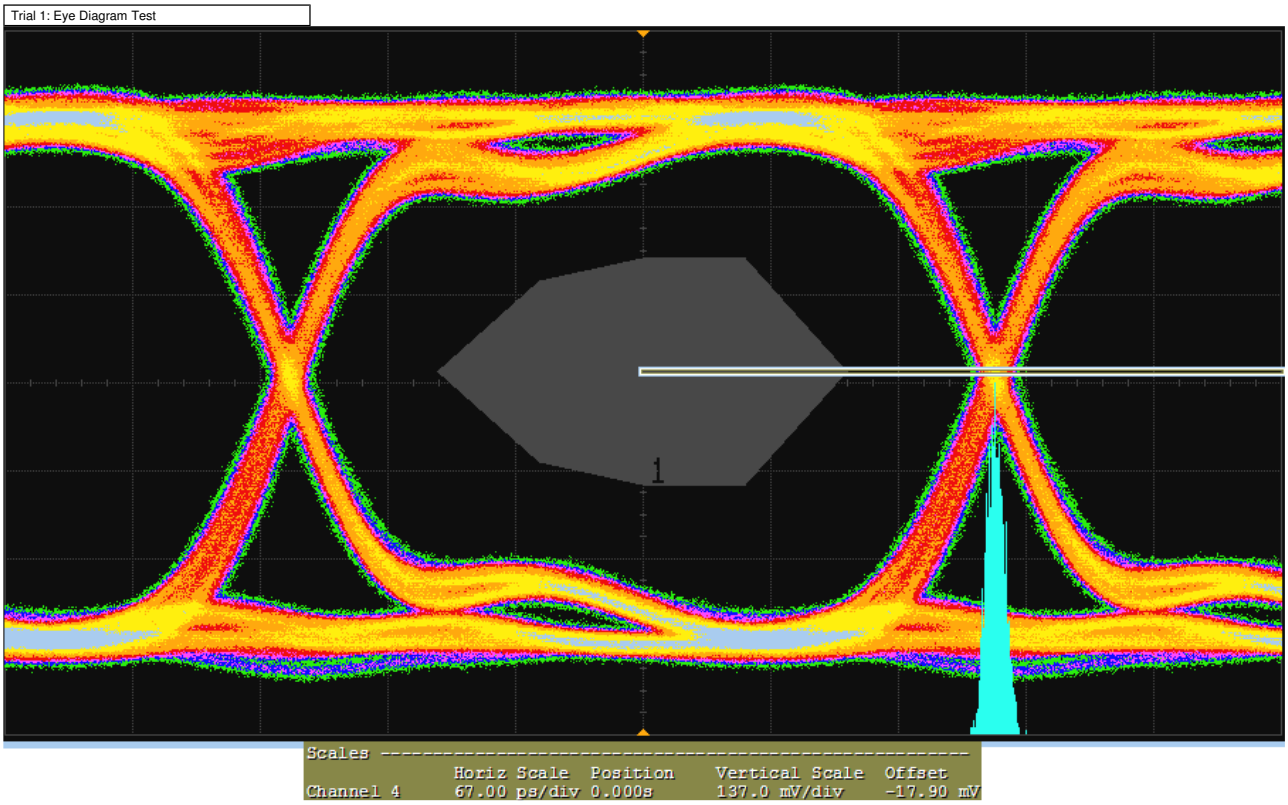
**Pass Limits:** [-500 m to 500 m] | **Eye Diagram Test (Worst of 2 Trials)** 0.000 | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | Number of UI | Left Jitter | Right Jitter | VTop | VBase | VSwing | Mask Type | Mask Scalling Option | Mask Movement Option | Mask Movement Margin (Horizontal) | Mask Movement Margin (Vertical) | Measured Eye Height | Measured Eye Width | Vertical Scale | Test Mode | Test Layer | Test Condition | DUT Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *0.000* | *50.00 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *0.000* | *0.000 %* | | | | | | | | | | | | | | | | | | |
| | *Range* | *0.000* | *0.000 %* | | | | | | | | | | | | | | | | | | |
| | *Min* | *0.000* | *50.00 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *0.000* | *50.00 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *0.000* | *100.0 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 0.000 | 50.0% | 256000 | 29.0300 ps | 28.2900 ps | 395.694 mV | -419.681 mV | 815.375 mV | TP2 | Absolute | Fixed | 0.0000000000000 s | 0.000 V | 673.420 mV | 341.333 ps | 137.500 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source |
| ✓ | Trial 2 | 0.000 | 50.0% | 256000 | 33.3000 ps | 33.3000 ps | 395.436 mV | -418.812 mV | 814.248 mV | TP2 | Absolute | Fixed | 0.0000000000000 s | 0.000 V | 672.160 mV | 583.974 ps | 137.500 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source |

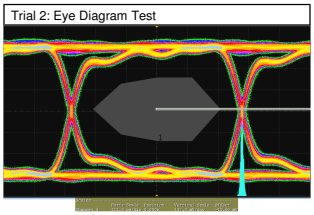
**Trial 1**

Trial 1: Eye Diagram Test




**Trial 2**

Trial 2: Eye Diagram Test



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## Lane 0 - Total Jitter Test (High BitRate)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass

Test Description: To evaluate the total jitter accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

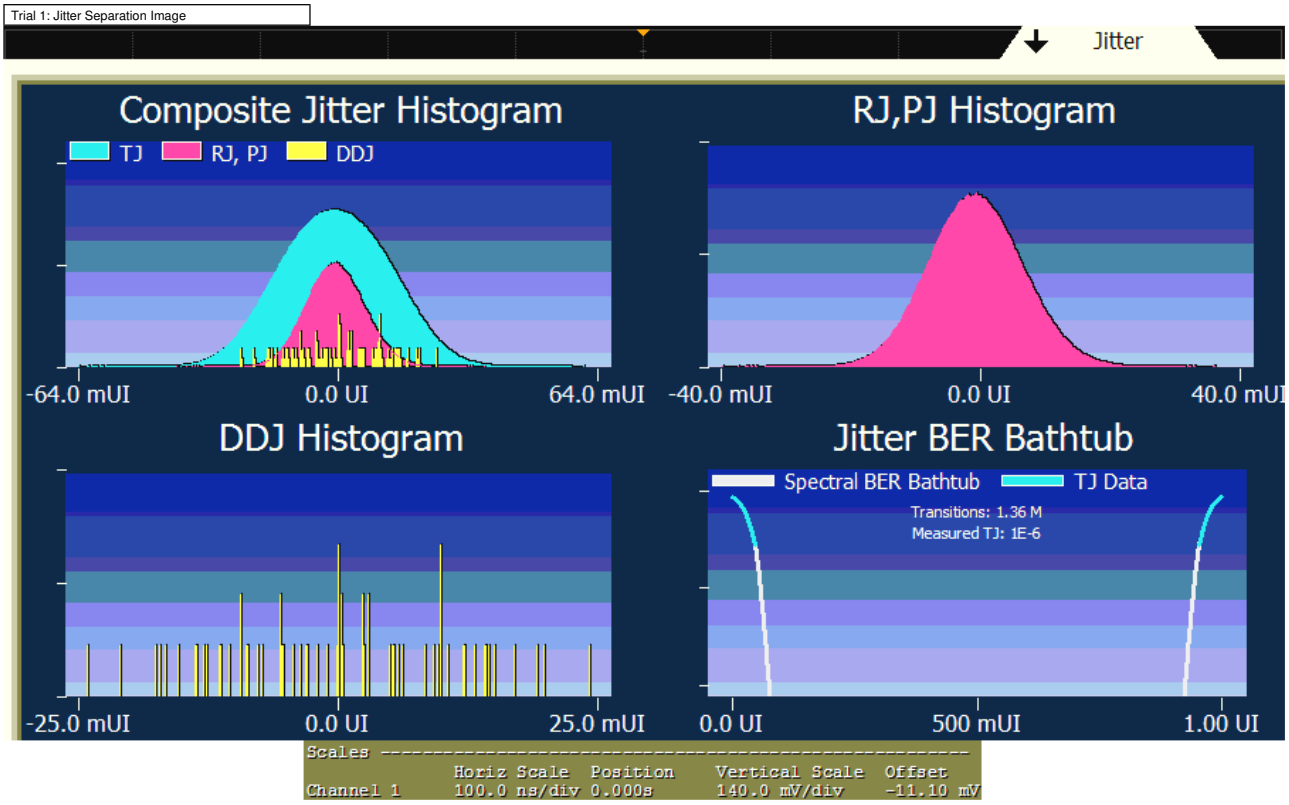
**Pass Limits:** <= 420.000 mUI | **Lane 0 Total Jitter Test (High BitRate) (Worst of 4 Trials)** 118.700 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 2

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Total Jitter (TJ) | Total Jitter (TJ) in ps | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *117.4 mUI* | *72.06 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *1.439 mUI* | *342.6 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *3.000 mUI* | *714.3 m%* | | | | | | | | | | | | | | | | | | |
| | *Min* | *115.7 mUI* | *71.74 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *118.7 mUI* | *72.45 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *469.4 mUI* | *288.2 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 118.400 mUI | 71.8% | (See image) | 1.00000000 M | 118.4 mUI | 43.8508 ps | 3.7 mUI | 10.0 mUI | 45.4 mUI | 6.1 mUI | 43.5 mUI | 48.6 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 2 (Worst) | 118.700 mUI | 71.7% | (See image) | 1.00000000 M | 118.7 mUI | 43.9630 ps | 3.8 mUI | 10.7 mUI | 45.4 mUI | 6.1 mUI | 40.5 mUI | 48.3 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 3 | 116.600 mUI | 72.2% | (See image) | 1.00000000 M | 116.6 mUI | 43.1852 ps | 3.8 mUI | 10.3 mUI | 43.2 mUI | 6.1 mUI | 39.6 mUI | 45.4 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 4 | 115.700 mUI | 72.5% | (See image) | 1.00000000 M | 115.7 mUI | 42.8519 ps | 3.8 mUI | 11.0 mUI | 44.5 mUI | 5.9 mUI | 44.7 mUI | 45.1 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |

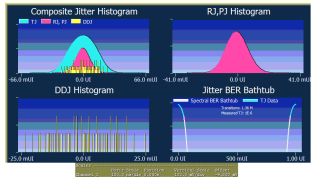
**Trial 1**

Trial 1: Jitter Separation Image



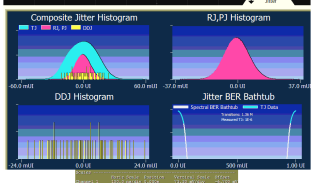

**Trial 2**

Trial 2: Jitter Separation Image



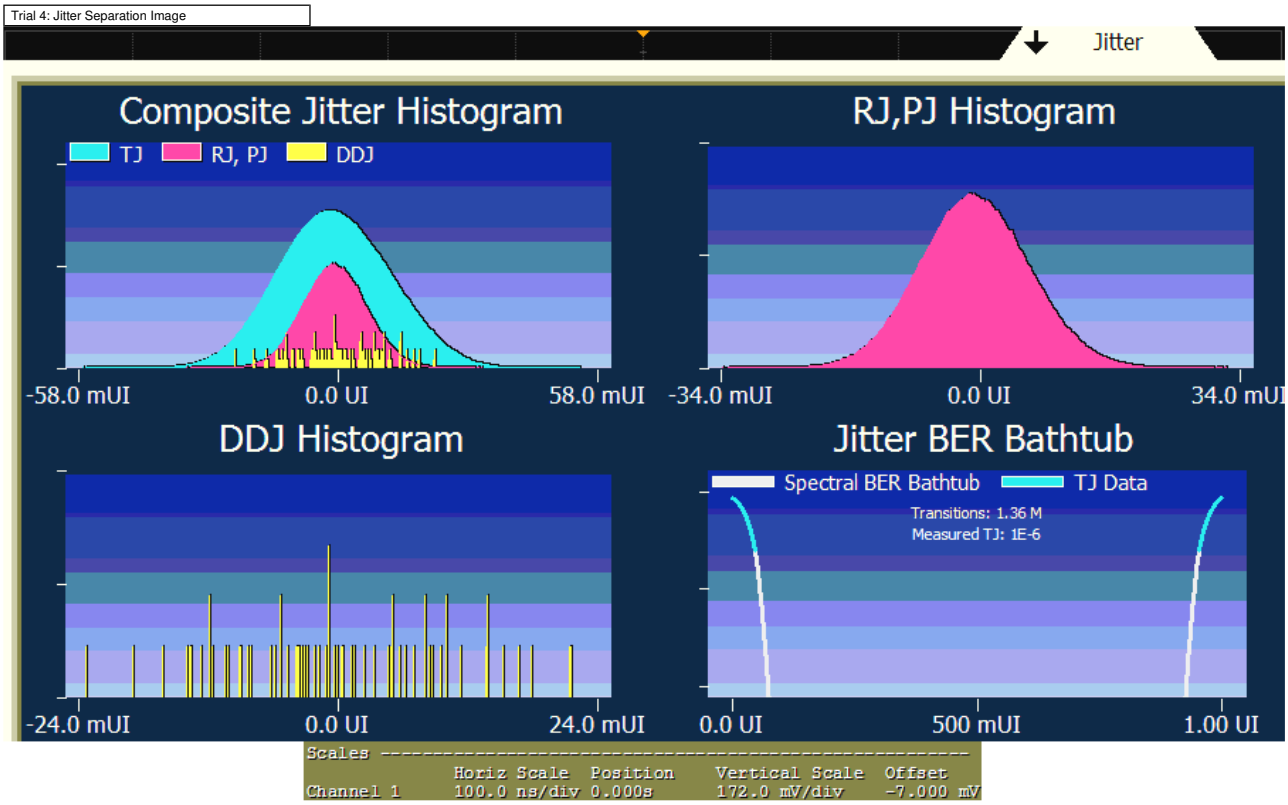
**Trial 3**

Trial 3: Jitter Separation Image



**Trial 4**

Trial 4: Jitter Separation Image




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 100.0 ns/div | 0.000s | 172.0 mV/div | -7.000 mV |

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## Lane 1 - Total Jitter Test (High BitRate)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass

Test Description: To evaluate the total jitter accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

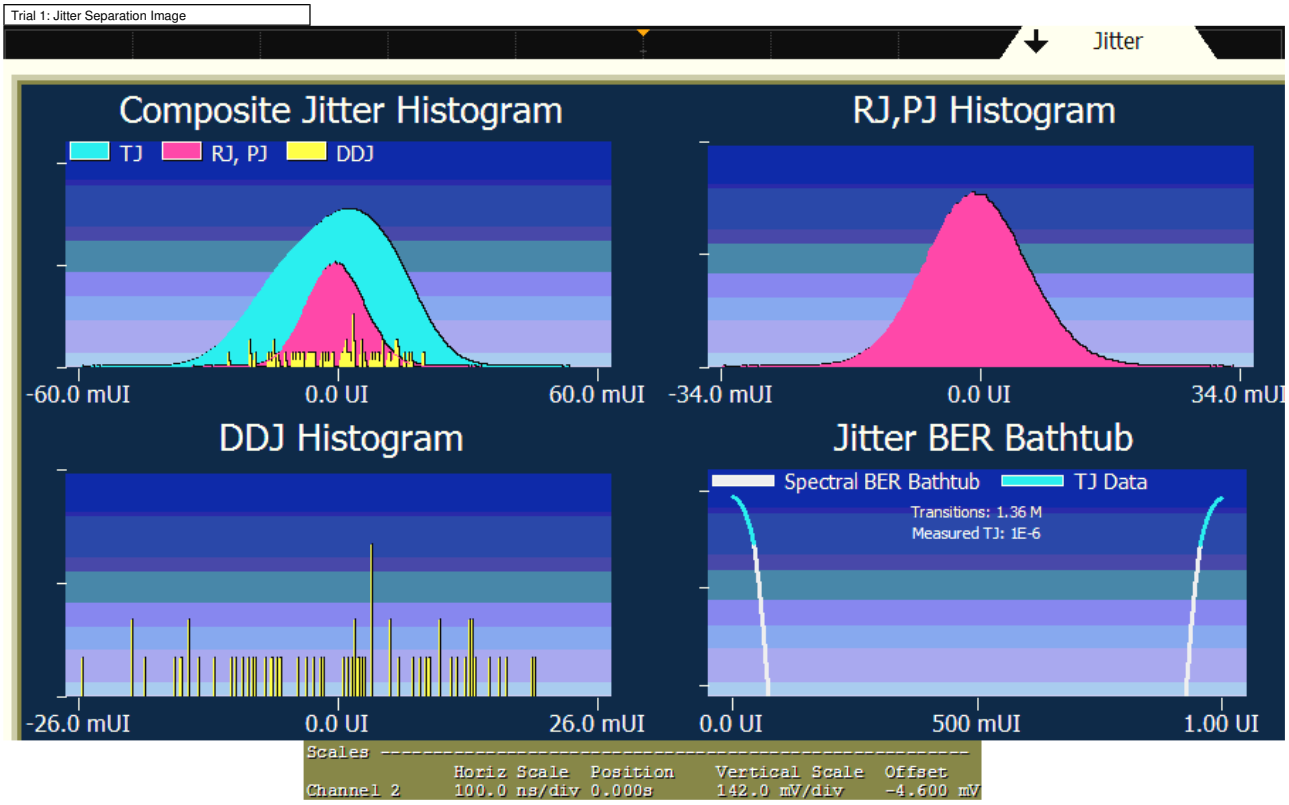
**Pass Limits:** <= 420.000 mUI | **Lane 1 Total Jitter Test (High BitRate) (Worst of 4 Trials)** 114.100 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 3

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Total Jitter (TJ) | Total Jitter (TJ) in ps | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *113.7 mUI* | *72.93 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *287.2 µUI* | *68.39 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *600.0 µUI* | *142.9 m%* | | | | | | | | | | | | | | | | | | |
| | *Min* | *113.5 mUI* | *72.83 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *114.1 mUI* | *72.98 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *454.7 mUI* | *291.7 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 113.500 mUI | 73.0% | (See image) | 1.00000000 M | 113.5 mUI | 42.0360 ps | 2.7 mUI | 7.1 mUI | 40.9 mUI | 6.0 mUI | 45.0 mUI | 45.6 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 2 | 113.600 mUI | 73.0% | (See image) | 1.00000000 M | 113.6 mUI | 42.0732 ps | 3.0 mUI | 8.5 mUI | 41.1 mUI | 6.0 mUI | 43.8 mUI | 45.1 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 3 (Worst) | 114.100 mUI | 72.8% | (See image) | 1.00000000 M | 114.1 mUI | 42.2583 ps | 2.7 mUI | 6.9 mUI | 39.0 mUI | 6.3 mUI | 43.9 mUI | 43.9 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 4 | 113.500 mUI | 73.0% | (See image) | 1.00000000 M | 113.5 mUI | 42.0361 ps | 2.8 mUI | 8.2 mUI | 41.9 mUI | 6.0 mUI | 45.5 mUI | 45.5 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |

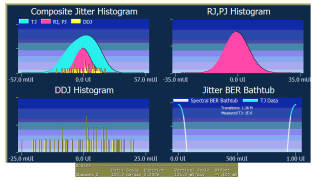
**Trial 1**

Trial 1: Jitter Separation Image



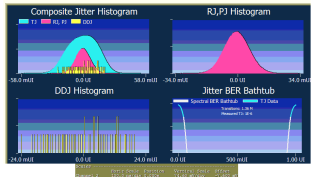

**Trial 2**

Trial 2: Jitter Separation Image



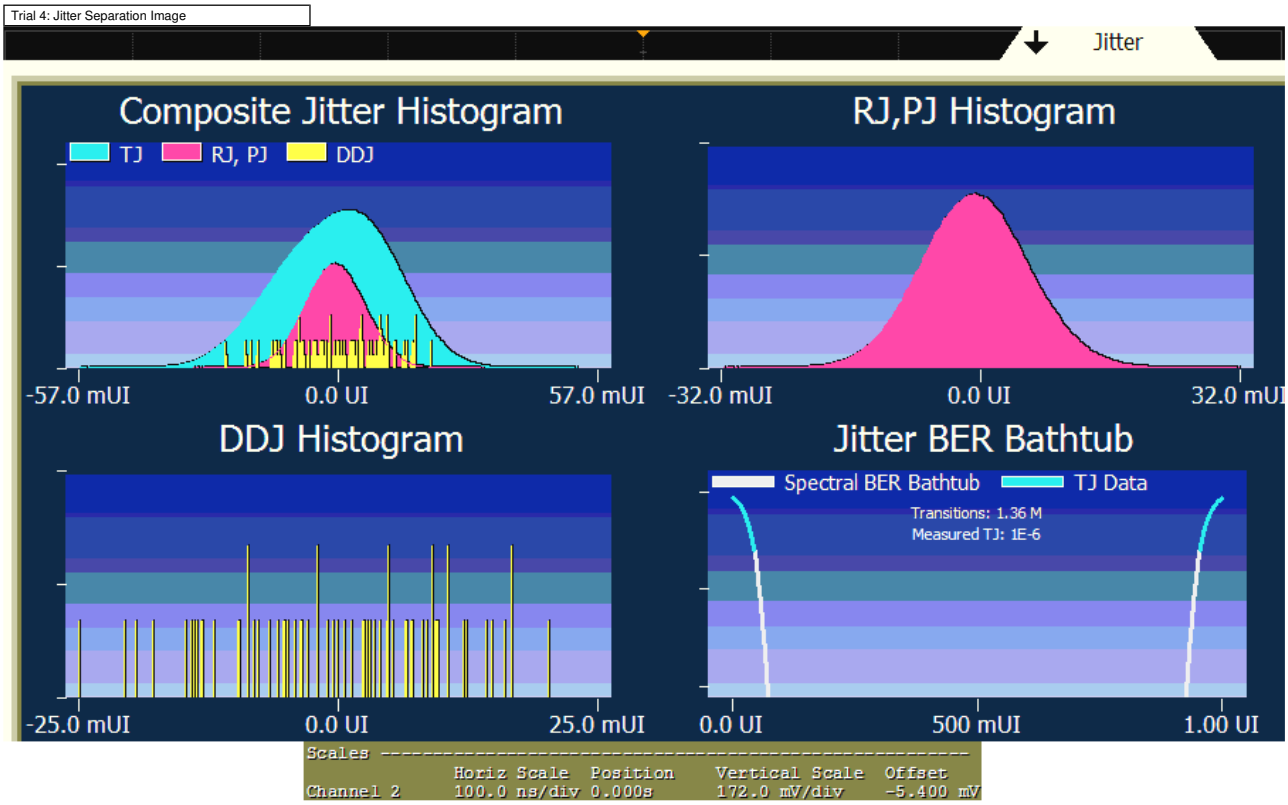

**Trial 3**

Trial 3: Jitter Separation Image




**Trial 4**

Trial 4: Jitter Separation Image

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## Lane 2 - Total Jitter Test (High BitRate)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass

Test Description: To evaluate the total jitter accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

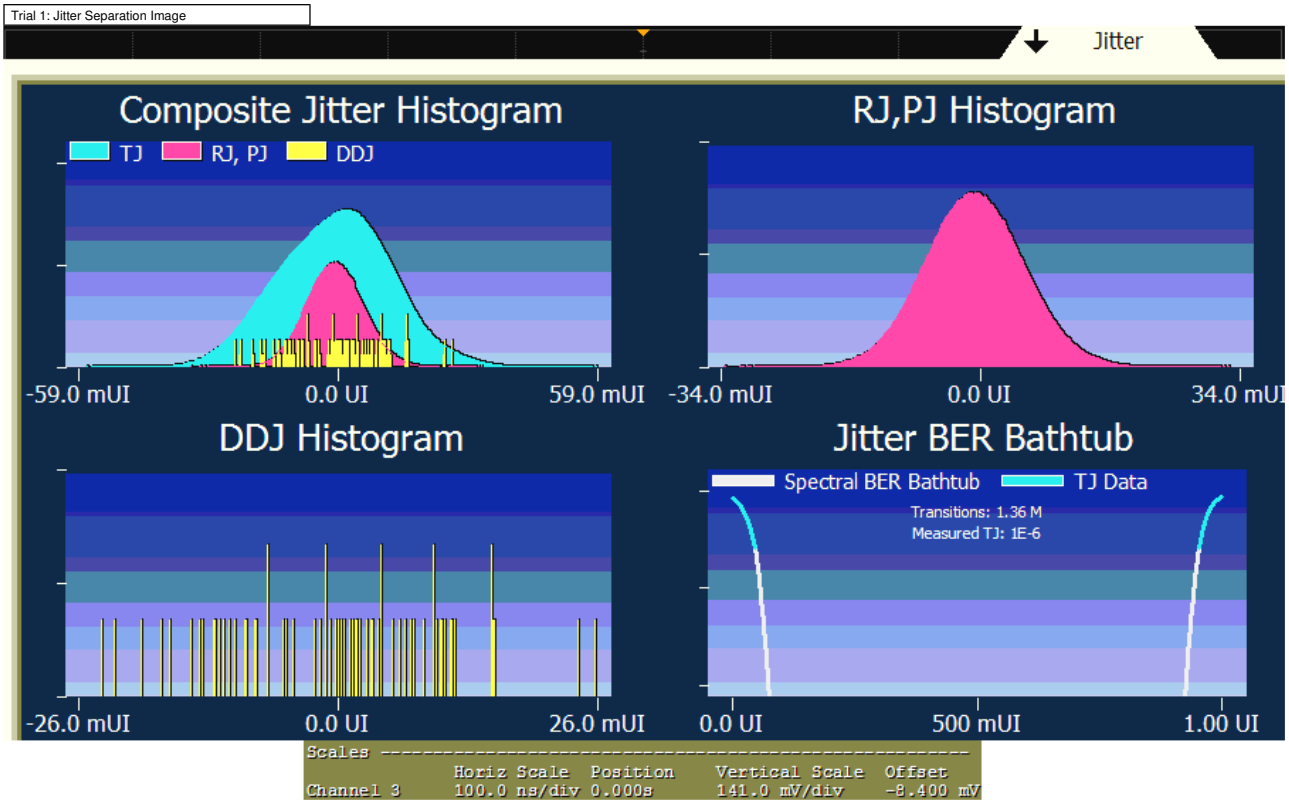
**Pass Limits:** <= 420.000 mUI | **Lane 2 Total Jitter Test (High BitRate) (Worst of 4 Trials)** 122.700 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 3

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Total Jitter (TJ) | Total Jitter (TJ) in ps | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *117.6 mUI* | *72.01 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *4.019 mUI* | *956.8 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *9.800 mUI* | *2.333 %* | | | | | | | | | | | | | | | | | | |
| | *Min* | *112.9 mUI* | *70.79 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *122.7 mUI* | *73.12 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *470.2 mUI* | *288.0 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 117.000 mUI | 72.1% | (See image) | 1.00000000 M | 117.0 mUI | 43.3321 ps | 2.4 mUI | 7.8 mUI | 45.2 mUI | 6.0 mUI | 47.9 mUI | 49.8 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 2 | 117.600 mUI | 72.0% | (See image) | 1.00000000 M | 117.6 mUI | 43.5547 ps | 2.5 mUI | 6.4 mUI | 45.8 mUI | 6.0 mUI | 49.6 mUI | 50.1 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 3 (Worst) | 122.700 mUI | 70.8% | (See image) | 1.00000000 M | 122.7 mUI | 45.4436 ps | 2.3 mUI | 6.8 mUI | 49.0 mUI | 6.1 mUI | 53.2 mUI | 54.2 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 4 | 112.900 mUI | 73.1% | (See image) | 1.00000000 M | 112.9 mUI | 41.8140 ps | 2.5 mUI | 7.4 mUI | 42.2 mUI | 5.9 mUI | 44.5 mUI | 45.5 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |

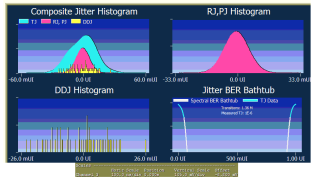
**Trial 1**

Trial 1: Jitter Separation Image



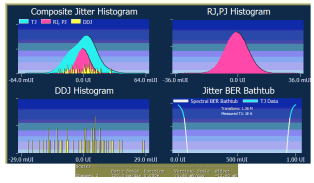

**Trial 2**

Trial 2: Jitter Separation Image



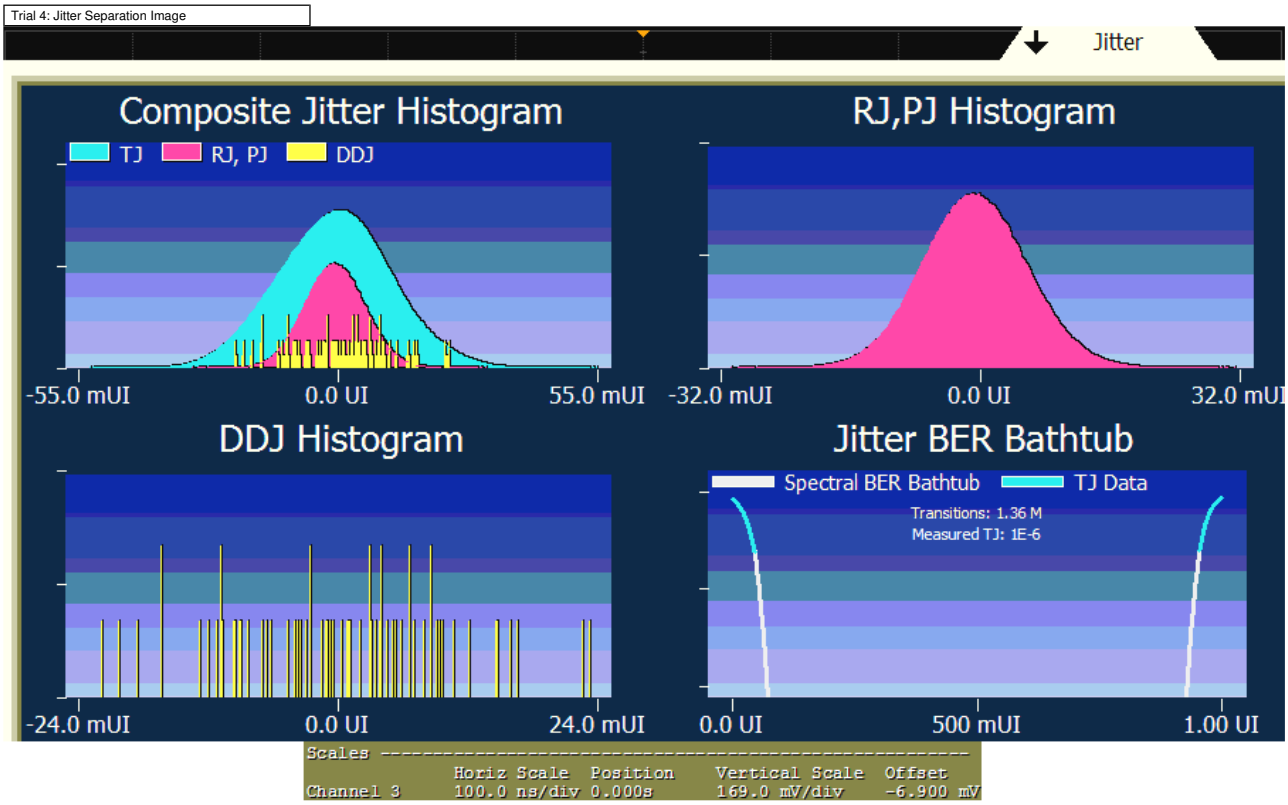
**Trial 3**

Trial 3: Jitter Separation Image



**Trial 4**

Trial 4: Jitter Separation Image




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 100.0 ns/div | 0.000s | 169.0 mV/div | -6.900 mV |

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## Lane 3 - Total Jitter Test (High BitRate)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass

Test Description: To evaluate the total jitter accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

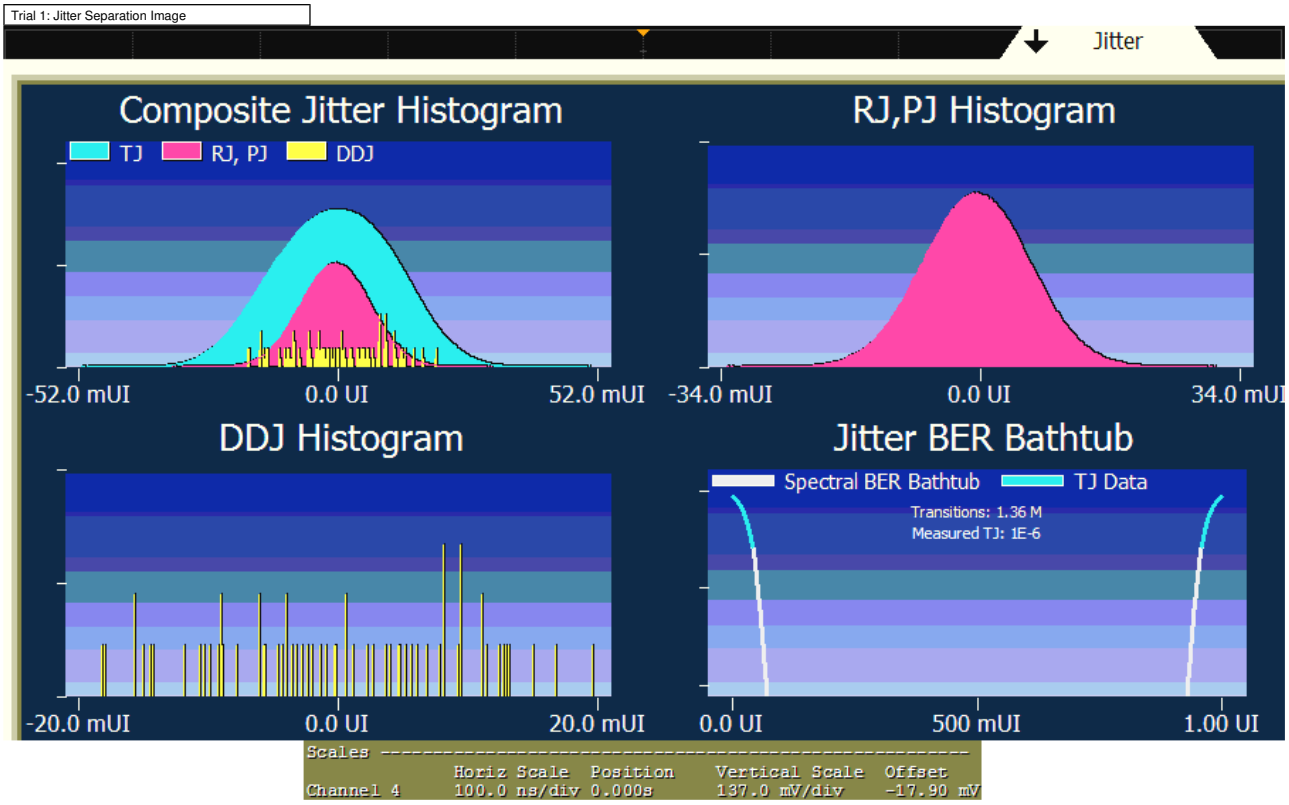
**Pass Limits:** <= 420.000 mUI | **Lane 3 Total Jitter Test (High BitRate) (Worst of 4 Trials)** 111.800 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 3

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Total Jitter (TJ) | Total Jitter (TJ) in ps | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *109.4 mUI* | *73.95 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *1.782 mUI* | *424.3 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *4.200 mUI* | *1.000 %* | | | | | | | | | | | | | | | | | | |
| | *Min* | *107.6 mUI* | *73.38 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *111.8 mUI* | *74.38 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *437.7 mUI* | *295.8 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 107.600 mUI | 74.4% | (See image) | 1.00000000 M | 107.6 mUI | 39.8510 ps | 3.4 mUI | 8.5 mUI | 35.5 mUI | 6.0 mUI | 35.4 mUI | 38.0 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 2 | 108.700 mUI | 74.1% | (See image) | 1.00000000 M | 108.7 mUI | 40.2582 ps | 3.4 mUI | 9.1 mUI | 36.0 mUI | 6.1 mUI | 37.6 mUI | 38.9 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 3 (Worst) | 111.800 mUI | 73.4% | (See image) | 1.00000000 M | 111.8 mUI | 41.4063 ps | 3.4 mUI | 8.8 mUI | 37.9 mUI | 6.2 mUI | 40.5 mUI | 40.6 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 4 | 109.600 mUI | 73.9% | (See image) | 1.00000000 M | 109.6 mUI | 40.5915 ps | 3.7 mUI | 10.4 mUI | 38.1 mUI | 6.0 mUI | 36.3 mUI | 39.5 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |

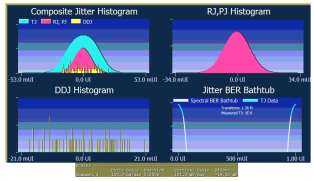
**Trial 1**

Trial 1: Jitter Separation Image



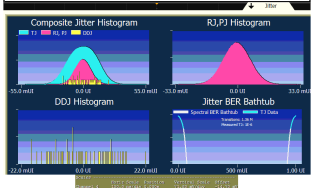

**Trial 2**

Trial 2: Jitter Separation Image



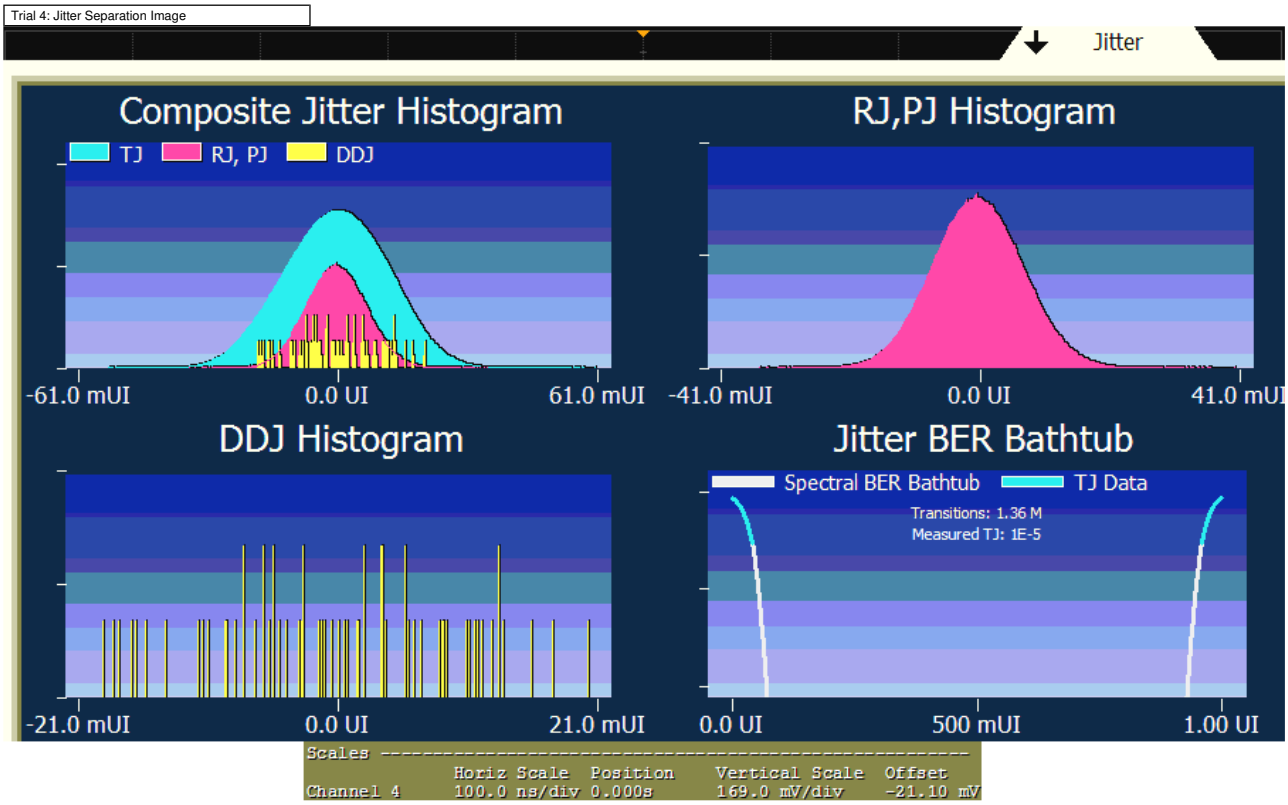
**Trial 3**

Trial 3: Jitter Separation Image



**Trial 4**

Trial 4: Jitter Separation Image

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## Lane 0 - Non-ISI Jitter Test (High BitRate)

*Reference: DisplayPort CTS Sec. 3.11: Figure 3.18 and Figure 3.19 in the VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the amount of Non-ISI jitter accompanying the data transmission.

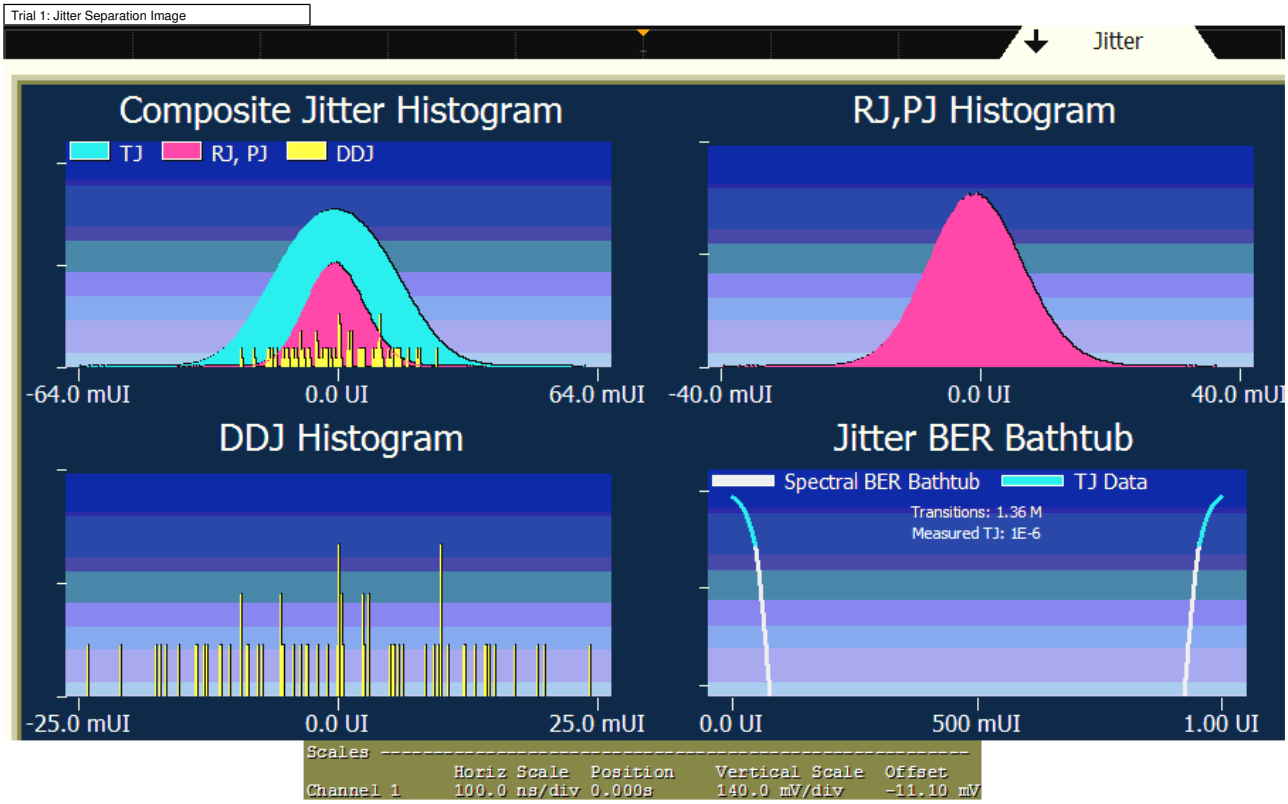
**Pass Limits:** <= 276.0000 mUI | **Lane 0 Non ISI Jitter Test (High BitRate) (Worst of 4 Trials)** 78.2000 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 2

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Non-ISI Jitter in ps | Total Jitter (TJ) | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *75.28 mUI* | *72.73 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *3.160 mUI* | *1.145 %* | | | | | | | | | | | | | | | | | | |
| | *Range* | *7.200 mUI* | *2.609 %* | | | | | | | | | | | | | | | | | | |
| | *Min* | *71.00 mUI* | *71.67 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *78.20 mUI* | *74.28 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *301.1 mUI* | *290.9 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 74.9000 mUI | 72.9% | (See image) | 1.00000000 M | 27.7401 ps | 118.4 mUI | 3.7 mUI | 10.0 mUI | 45.4 mUI | 6.1 mUI | 43.5 mUI | 48.6 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 2 (Worst) | 78.2000 mUI | 71.7% | (See image) | 1.00000000 M | 28.9630 ps | 118.7 mUI | 3.8 mUI | 10.7 mUI | 45.4 mUI | 6.1 mUI | 40.5 mUI | 48.3 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 3 | 77.0000 mUI | 72.1% | (See image) | 1.00000000 M | 28.5185 ps | 116.6 mUI | 3.8 mUI | 10.3 mUI | 43.2 mUI | 6.1 mUI | 39.6 mUI | 45.4 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 4 | 71.0000 mUI | 74.3% | (See image) | 1.00000000 M | 26.2963 ps | 115.7 mUI | 3.8 mUI | 11.0 mUI | 44.5 mUI | 5.9 mUI | 44.7 mUI | 45.1 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |

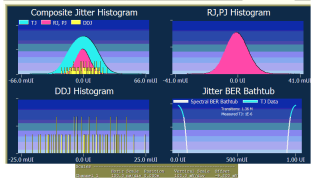
**Trial 1**

Trial 1: Jitter Separation Image



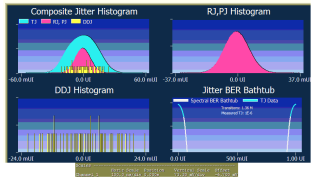

**Trial 2**

Trial 2: Jitter Separation Image



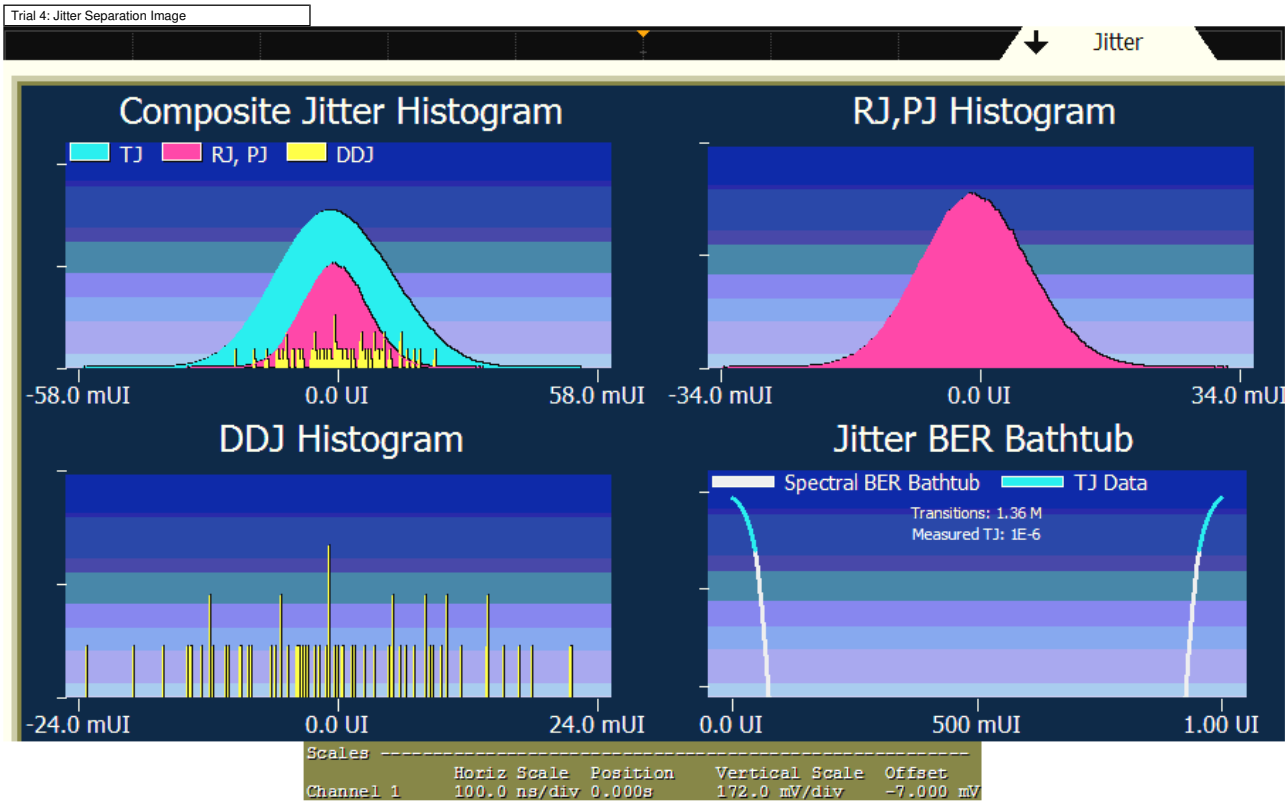
**Trial 3**

Trial 3: Jitter Separation Image



**Trial 4**

Trial 4: Jitter Separation Image




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 100.0 ns/div | 0.000s | 172.0 mV/div | -7.000 mV |

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## Lane 1 - Non-ISI Jitter Test (High BitRate)

*Reference: DisplayPort CTS Sec. 3.11: Figure 3.18 and Figure 3.19 in the VESA DisplayPort Standard specification*

Test Summary: Pass

Test Description: To evaluate the amount of Non-ISI jitter accompanying the data transmission.

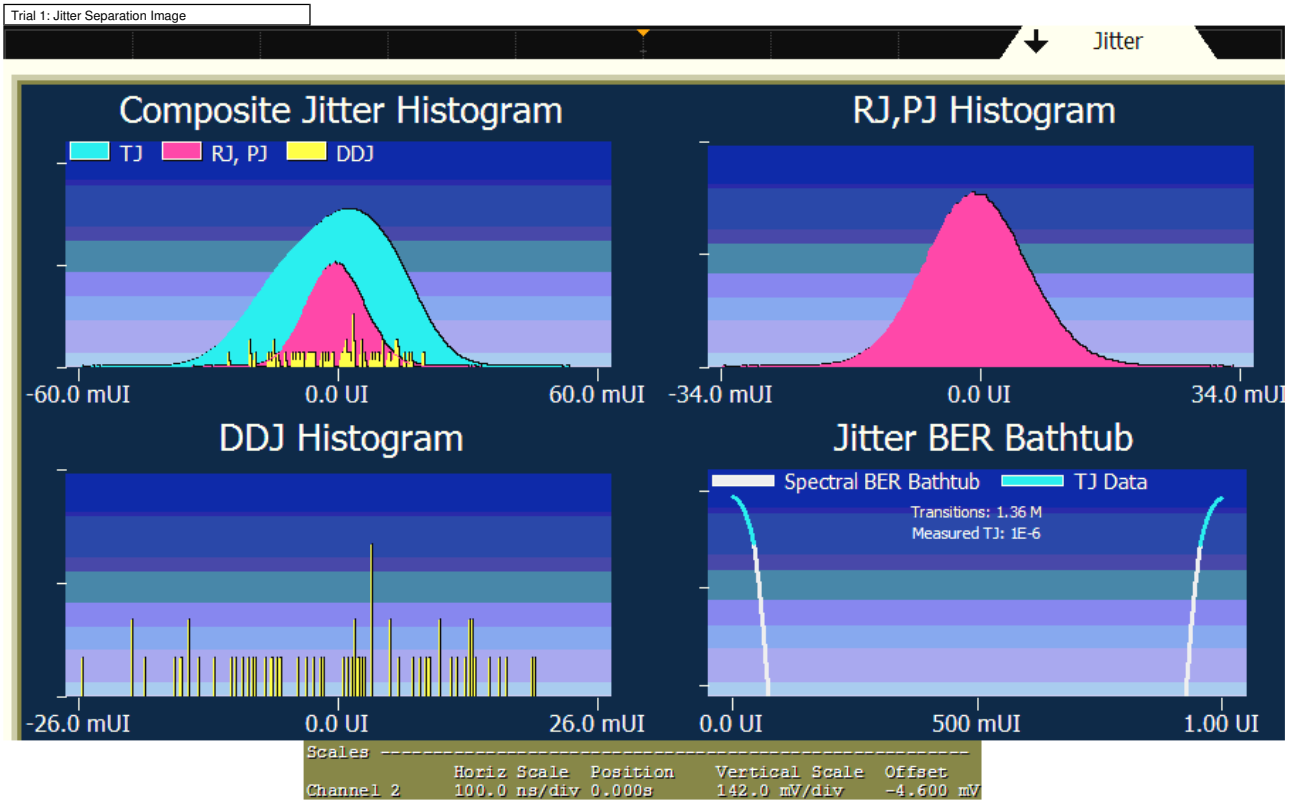
**Pass Limits:** <= 276.0000 mUI | **Lane 1 Non ISI Jitter Test (High BitRate) (Worst of 4 Trials)** 70.2000 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 3

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Non-ISI Jitter in ps | Total Jitter (TJ) | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *69.13 mUI* | *74.95 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *1.044 mUI* | *378.1 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *2.200 mUI* | *797.1 m%* | | | | | | | | | | | | | | | | | | |
| | *Min* | *68.00 mUI* | *74.57 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *70.20 mUI* | *75.36 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *276.5 mUI* | *299.8 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 68.5000 mUI | 75.2% | (See image) | 1.00000000 M | 25.3698 ps | 113.5 mUI | 2.7 mUI | 7.1 mUI | 40.9 mUI | 6.0 mUI | 45.0 mUI | 45.6 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 2 | 69.8000 mUI | 74.7% | (See image) | 1.00000000 M | 25.8513 ps | 113.6 mUI | 3.0 mUI | 8.5 mUI | 41.1 mUI | 6.0 mUI | 43.8 mUI | 45.1 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 3 (Worst) | 70.2000 mUI | 74.6% | (See image) | 1.00000000 M | 25.9994 ps | 114.1 mUI | 2.7 mUI | 6.9 mUI | 39.0 mUI | 6.3 mUI | 43.9 mUI | 43.9 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 4 | 68.0000 mUI | 75.4% | (See image) | 1.00000000 M | 25.1846 ps | 113.5 mUI | 2.8 mUI | 8.2 mUI | 41.9 mUI | 6.0 mUI | 45.5 mUI | 45.5 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |

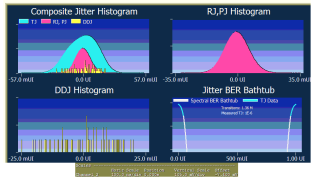
**Trial 1**

Trial 1: Jitter Separation Image



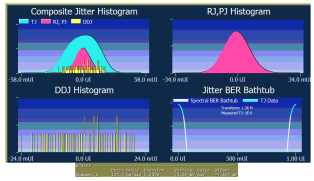

**Trial 2**

Trial 2: Jitter Separation Image



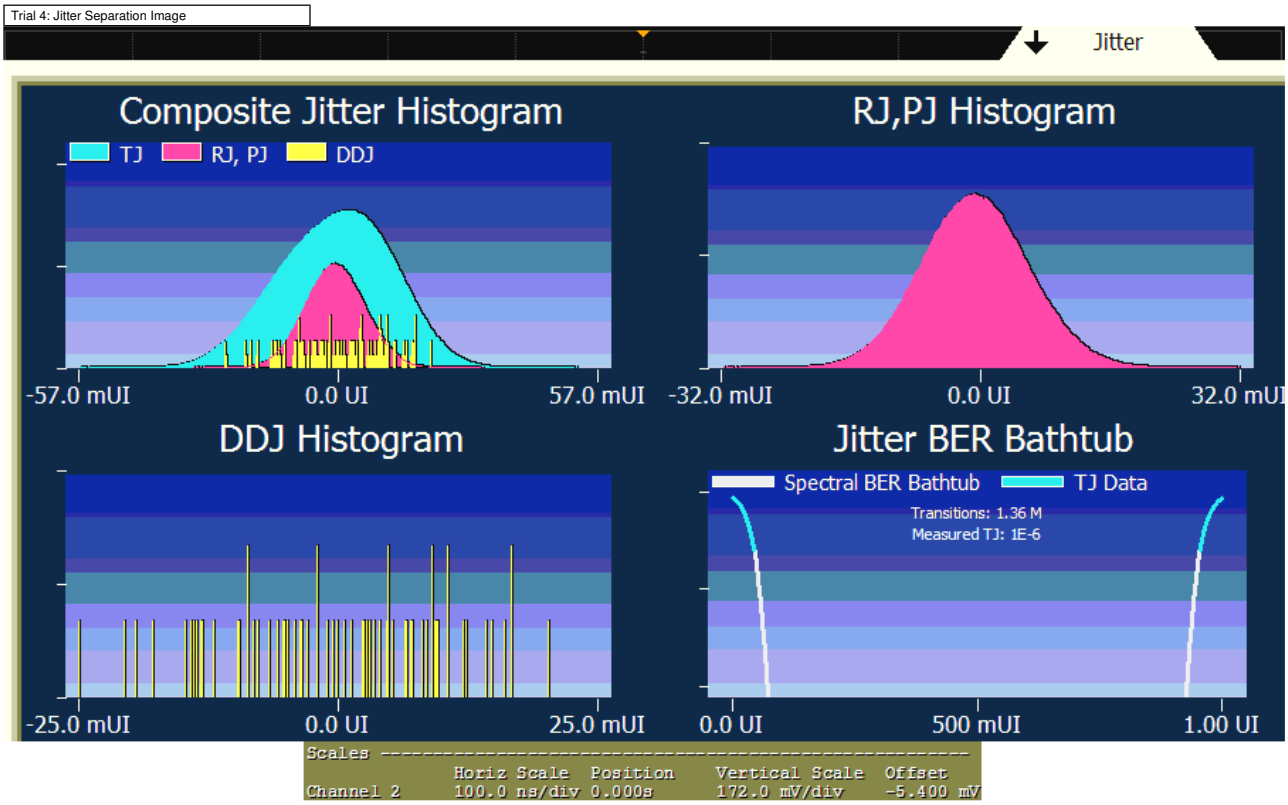
**Trial 3**

Trial 3: Jitter Separation Image



**Trial 4**

Trial 4: Jitter Separation Image

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## Lane 2 - Non-ISI Jitter Test (High BitRate)

*Reference: DisplayPort CTS Sec. 3.11: Figure 3.18 and Figure 3.19 in the VESA DisplayPort Standard specification*

Test Summary: Pass

Test Description: To evaluate the amount of Non-ISI jitter accompanying the data transmission.

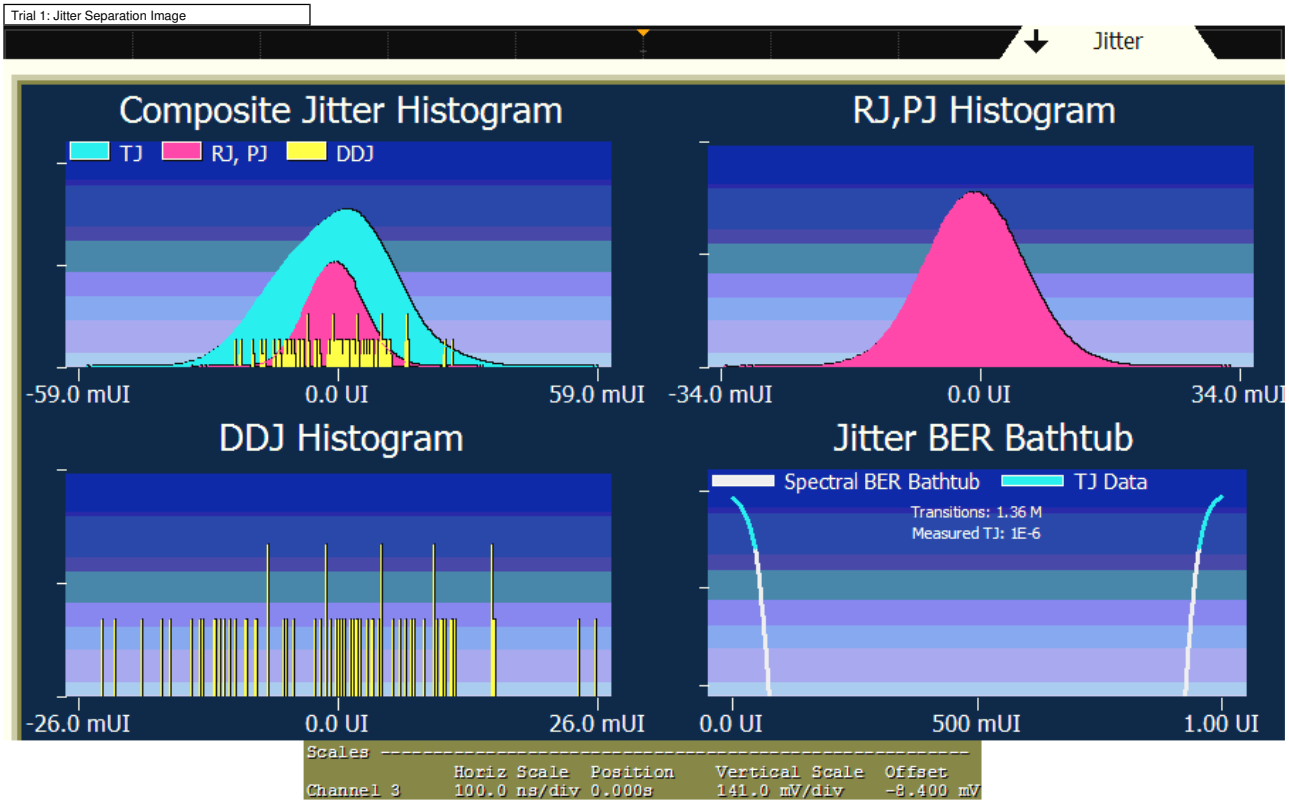
**Pass Limits:** <= 276.0000 mUI | **Lane 2 Non ISI Jitter Test (High BitRate) (Worst of 4 Trials)** 69.5000 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 3

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Non-ISI Jitter in ps | Total Jitter (TJ) | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *68.75 mUI* | *75.09 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *675.8 µUI* | *244.8 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *1.500 mUI* | *543.5 m%* | | | | | | | | | | | | | | | | | | |
| | *Min* | *68.00 mUI* | *74.82 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *69.50 mUI* | *75.36 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *275.0 mUI* | *300.4 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 69.1000 mUI | 75.0% | (See image) | 1.00000000 M | 25.5919 ps | 117.0 mUI | 2.4 mUI | 7.8 mUI | 45.2 mUI | 6.0 mUI | 47.9 mUI | 49.8 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 2 | 68.0000 mUI | 75.4% | (See image) | 1.00000000 M | 25.1847 ps | 117.6 mUI | 2.5 mUI | 6.4 mUI | 45.8 mUI | 6.0 mUI | 49.6 mUI | 50.1 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 3 (Worst) | 69.5000 mUI | 74.8% | (See image) | 1.00000000 M | 25.7403 ps | 122.7 mUI | 2.3 mUI | 6.8 mUI | 49.0 mUI | 6.1 mUI | 53.2 mUI | 54.2 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 4 | 68.4000 mUI | 75.2% | (See image) | 1.00000000 M | 25.3329 ps | 112.9 mUI | 2.5 mUI | 7.4 mUI | 42.2 mUI | 5.9 mUI | 44.5 mUI | 45.5 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |

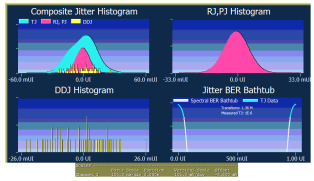
**Trial 1**

Trial 1: Jitter Separation Image



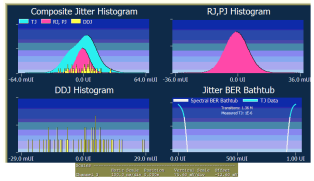

**Trial 2**

Trial 2: Jitter Separation Image



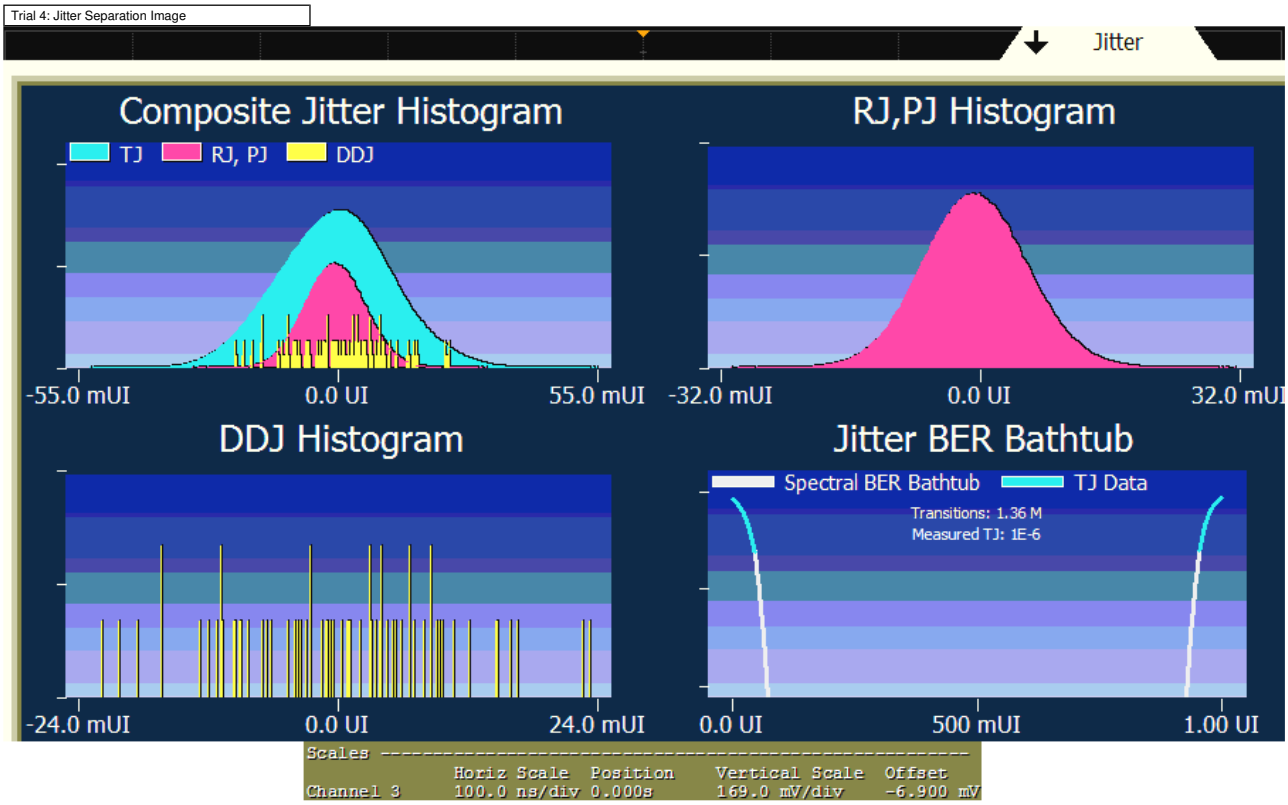
**Trial 3**

Trial 3: Jitter Separation Image



**Trial 4**

Trial 4: Jitter Separation Image




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 100.0 ns/div | 0.000s | 169.0 mV/div | -6.900 mV |

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## Lane 3 - Non-ISI Jitter Test (High BitRate)

*Reference: DisplayPort CTS Sec. 3.11: Figure 3.18 and Figure 3.19 in the VESA DisplayPort Standard specification*

Test Summary: Pass

Test Description: To evaluate the amount of Non-ISI jitter accompanying the data transmission.

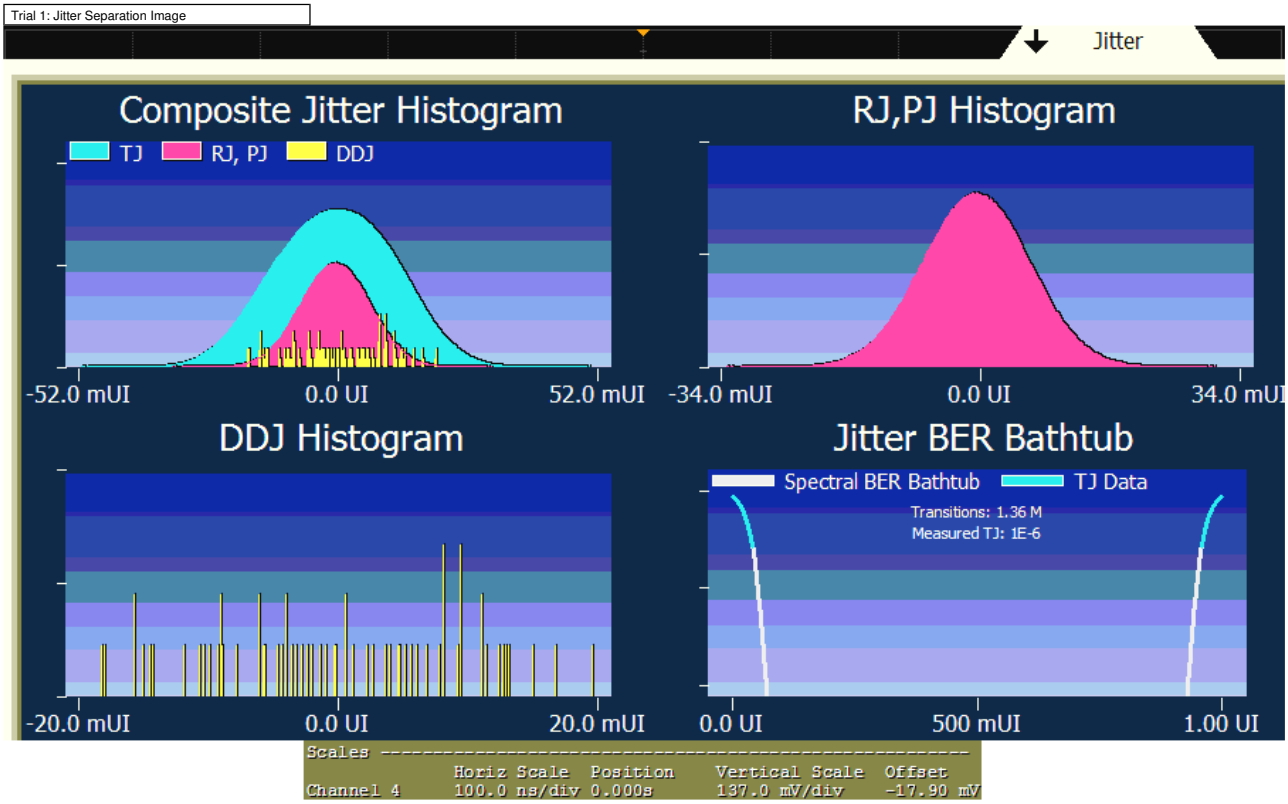
**Pass Limits:** <= 276.0000 mUI | **Lane 3 Non ISI Jitter Test (High BitRate) (Worst of 4 Trials)** 73.3000 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 4

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Non-ISI Jitter in ps | Total Jitter (TJ) | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *71.98 mUI* | *73.92 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *1.005 mUI* | *364.0 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *2.200 mUI* | *797.1 m%* | | | | | | | | | | | | | | | | | | |
| | *Min* | *71.10 mUI* | *73.44 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *73.30 mUI* | *74.24 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *287.9 mUI* | *295.7 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 72.2000 mUI | 73.8% | (See image) | 1.00000000 M | 26.7402 ps | 107.6 mUI | 3.4 mUI | 8.5 mUI | 35.5 mUI | 6.0 mUI | 35.4 mUI | 38.0 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 2 | 71.1000 mUI | 74.2% | (See image) | 1.00000000 M | 26.3327 ps | 108.7 mUI | 3.4 mUI | 9.1 mUI | 36.0 mUI | 6.1 mUI | 37.6 mUI | 38.9 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 3 | 71.3000 mUI | 74.2% | (See image) | 1.00000000 M | 26.4067 ps | 111.8 mUI | 3.4 mUI | 8.8 mUI | 37.9 mUI | 6.2 mUI | 40.5 mUI | 40.6 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |
| ✓ | Trial 4 (Worst) | 73.3000 mUI | 73.4% | (See image) | 1.00000000 M | 27.1474 ps | 109.6 mUI | 3.7 mUI | 10.4 mUI | 38.1 mUI | 6.0 mUI | 36.3 mUI | 39.5 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbps |

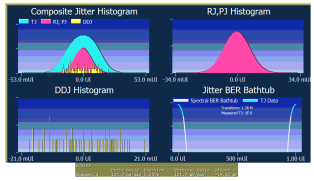
**Trial 1**

Trial 1: Jitter Separation Image



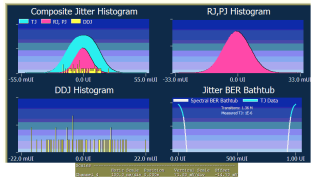

**Trial 2**

Trial 2: Jitter Separation Image



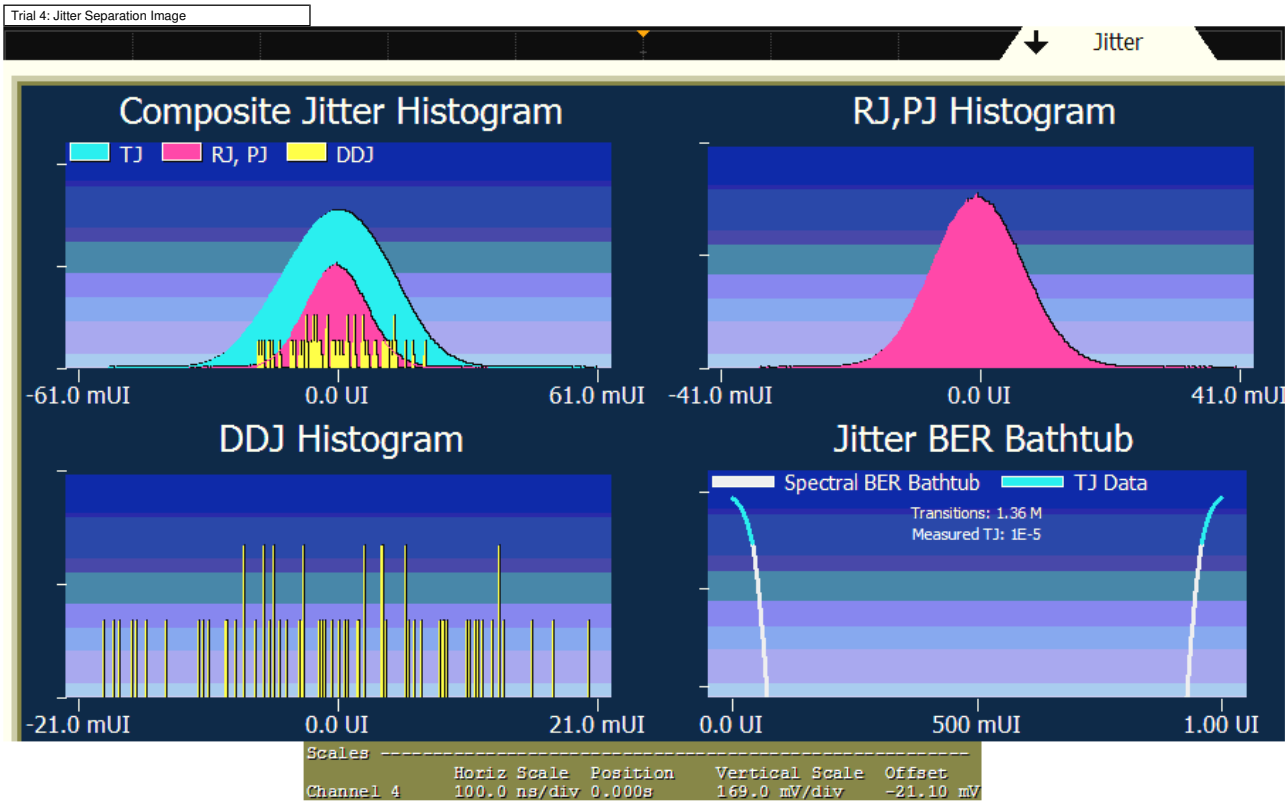
**Trial 3**

Trial 3: Jitter Separation Image



**Trial 4**

Trial 4: Jitter Separation Image




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 100.0 ns/div | 0.000s | 169.0 mV/div | -21.10 mV |

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## 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: Pass

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

**Pass Limits:** [100.0 mdB to 5.1000 dB] | **Lane 0 Non-PreEmphasis Level Test (Swing 2/Swing 1) (Worst of 2 Trials)** 2.6131 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 2

**Overall Summary + details of 2 worst trials**

| Pass | 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 | BitR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *2.601 dB* | *49.76 %* | | | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *17.16 mdB* | *28.28 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Range* | *24.27 mdB* | *40.00 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Min* | *2.589 dB* | *49.74 %* | | | | | | | | | | | | | | | | | | | | |
| | *Max* | *2.613 dB* | *49.78 %* | | | | | | | | | | | | | | | | | | | | |
| | *Sum* | *5.202 dB* | *99.52 %* | | | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 2.5889 dB | 49.8% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 397.440 mV | -422.410 mV | 819.850 mV | 291.842 mV | -316.701 mV | 608.543 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbp |
| ✓ | Trial 2 (Worst) | 2.6131 dB | 49.7% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 396.092 mV | -418.110 mV | 814.202 mV | 290.671 mV | -311.993 mV | 602.664 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbp |

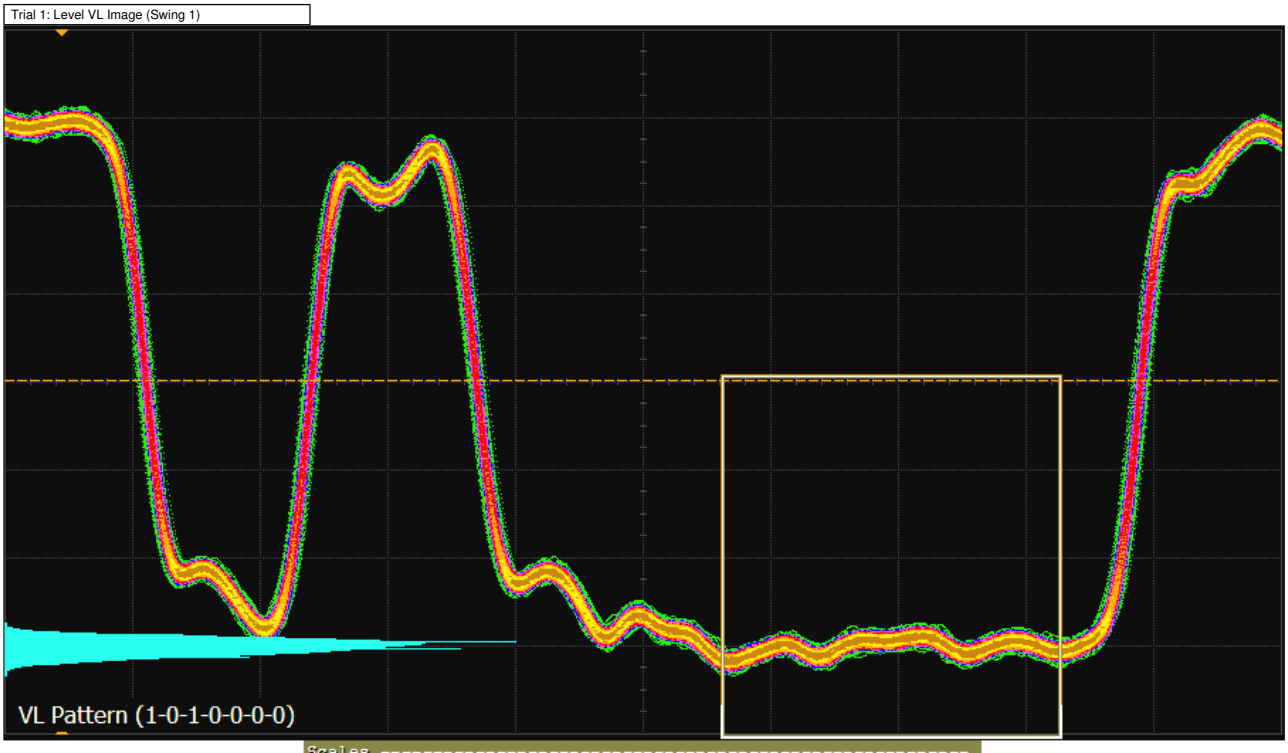
**Trial 1**

Trial 1: Level VH Image (Swing 2)

Trial 1: Level VL Image (Swing 2)


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 285.0 ps/div | 1.296 ns | 140.0 mV/div | -11.10 mV |

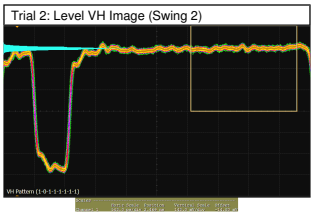
Trial 1: Level VL Image (Swing 1)



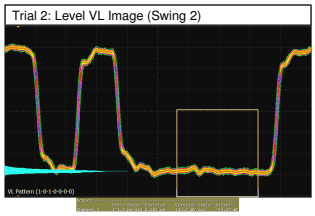

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 285.0 ps/div | 1.296 ns | 103.0 mV/div | -11.30 mV |

**Trial 2**

Trial 2: Level VH Image (Swing 2)

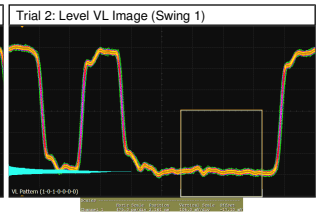


Trial 2: Level VL Image (Swing 2)



Trial 2: Level VH Image (Swing 1)

Trial 2: Level VL Image (Swing 1)



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

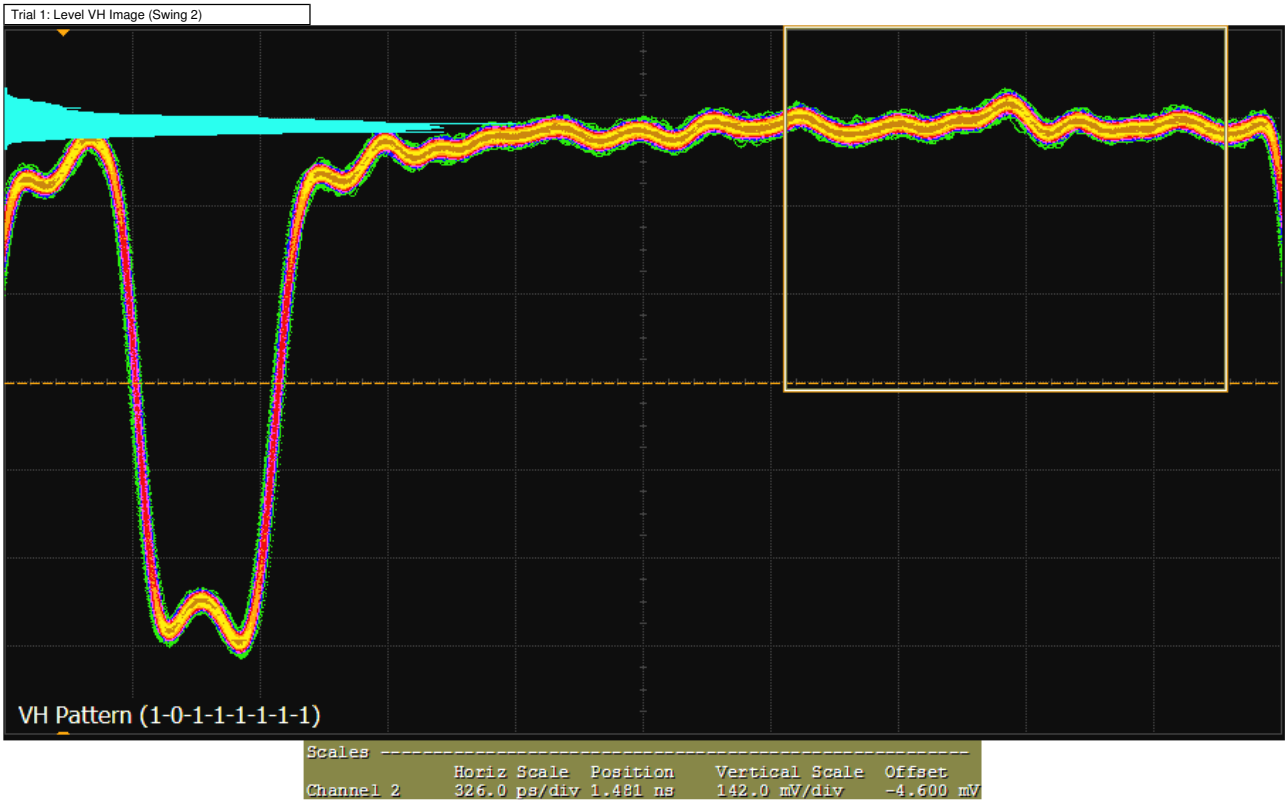
**Pass Limits:** [100.0 mdB to 5.1000 dB] | **Lane 1 Non-PreEmphasis Level Test (Swing 2/Swing 1) (Worst of 2 Trials)** 2.5650 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

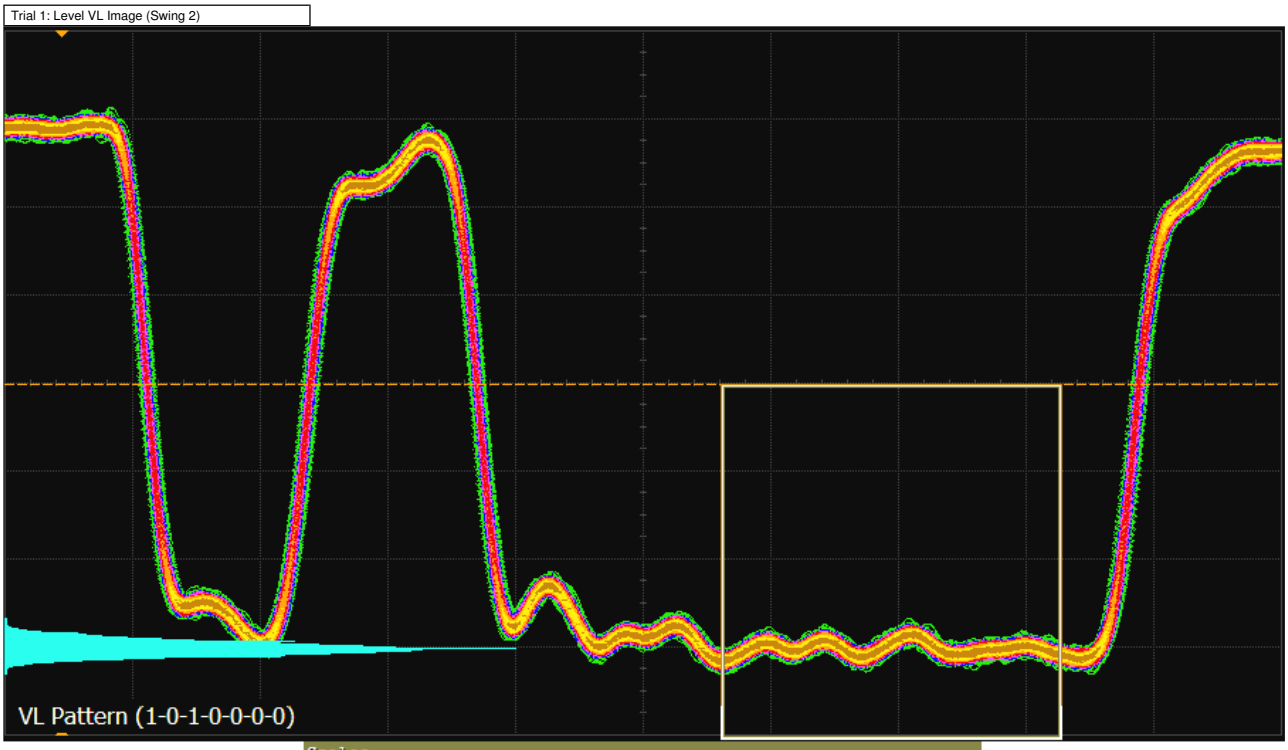
| Pass | Trial | Actual Value | Margin | Level VH Image (Swing 2) | Level VL Image (Swing 2) | Level VH Image (Swing 1) | Level VL Image (Swing 1) | Number of UI | VH Trigger Pattern | VL Trigger Pattern | VTop (Swing 2) | VBase (Swing 2) | VSwing (Swing 2) | VTop (Swing 1) | VBase (Swing 1) | VSwing (Swing 1) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *2.578 dB* | *49.56 %* | | | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *18.30 mdB* | *366.3 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Range* | *25.87 mdB* | *518.0 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Min* | *2.565 dB* | *49.30 %* | | | | | | | | | | | | | | | | | | | | |
| | *Max* | *2.591 dB* | *49.82 %* | | | | | | | | | | | | | | | | | | | | |
| | *Sum* | *5.156 dB* | *99.12 %* | | | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 2.5650 dB | 49.3% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 401.220 mV | -418.548 mV | 819.768 mV | 296.202 mV | -313.953 mV | 610.155 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbp |
| ✓ | Trial 2 | 2.5909 dB | 49.8% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 398.058 mV | -416.513 mV | 814.571 mV | 293.032 mV | -311.452 mV | 604.484 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbp |

**Trial 1**

Trial 1: Level VH Image (Swing 2)

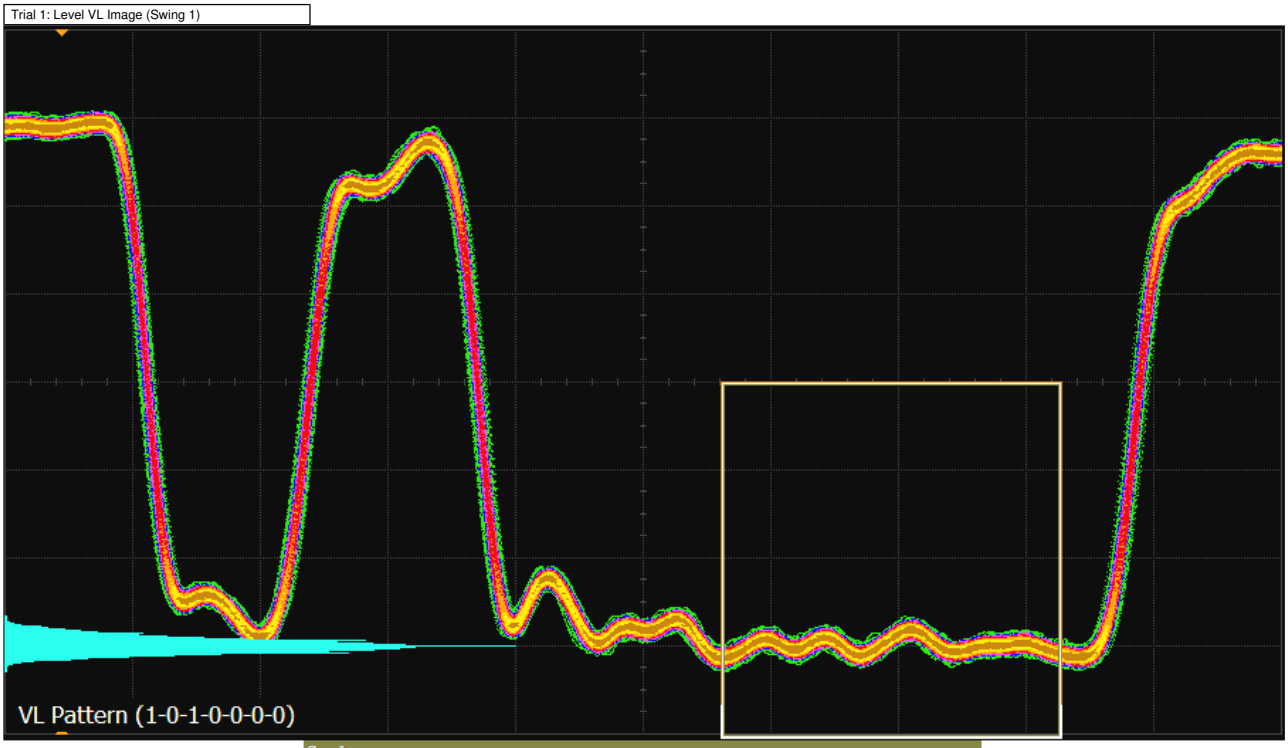


Trial 1: Level VL Image (Swing 2)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 285.0 ps/div | 1.296 ns | 142.0 mV/div | -4.600 mV |

Trial 1: Level VL Image (Swing 1)

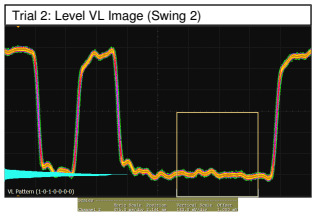



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 285.0 ps/div | 1.296 ns | 105.0 mV/div | -6.000 mV |

**Trial 2**

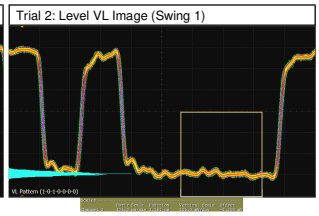
Trial 2: Level VH Image (Swing 2)

Trial 2: Level VL Image (Swing 2)



Trial 2: Level VH Image (Swing 1)

Trial 2: Level VL Image (Swing 1)



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

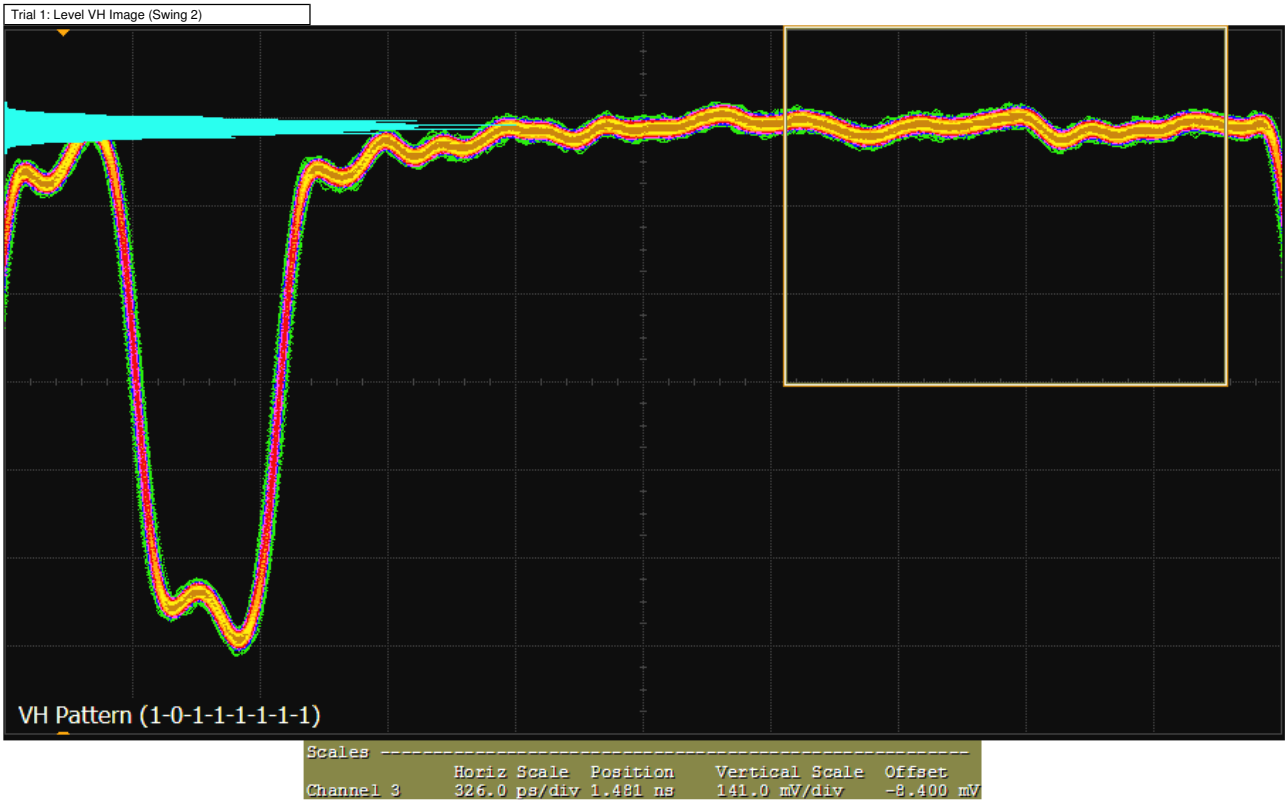
**Pass Limits:** [100.0 mdB to 5.1000 dB] | **Lane 2 Non-PreEmphasis Level Test (Swing 2/Swing 1) (Worst of 2 Trials)** 2.5002 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | 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 | BitR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *2.508 dB* | *48.16 %* | | | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *11.34 mdB* | *226.3 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Range* | *16.04 mdB* | *320.0 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Min* | *2.500 dB* | *48.00 %* | | | | | | | | | | | | | | | | | | | | |
| | *Max* | *2.516 dB* | *48.32 %* | | | | | | | | | | | | | | | | | | | | |
| | *Sum* | *5.016 dB* | *96.33 %* | | | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 2.5002 dB | 48.0% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 401.228 mV | -427.992 mV | 829.219 mV | 298.874 mV | -322.942 mV | 621.816 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbp |
| ✓ | Trial 2 | 2.5162 dB | 48.3% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 398.274 mV | -416.661 mV | 814.935 mV | 296.021 mV | -313.957 mV | 609.977 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbp |

**Trial 1**

Trial 1: Level VH Image (Swing 2)



Trial 1: Level VL Image (Swing 2)

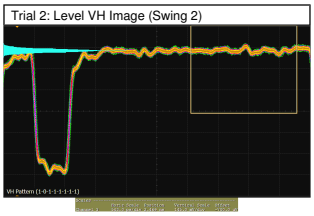

```
Scales ------------------------------------------------------
                Horiz Scale  Position    Vertical Scale  Offset
Channel 3       285.0 ps/div 1.296 ns    141.0 mV/div    -8.400 mV
```

Trial 1: Level VL Image (Swing 1)

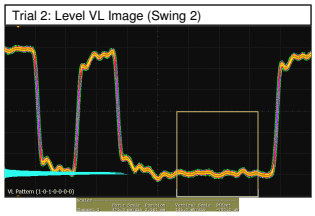

```
Scales ------------------------------------------------------
                Horiz Scale  Position    Vertical Scale  Offset
Channel 3       285.0 ps/div 1.296 ns    106.0 mV/div    -11.30 mV
```

**Trial 2**

Trial 2: Level VH Image (Swing 2)

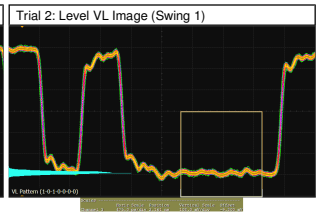


Trial 2: Level VL Image (Swing 2)



Trial 2: Level VH Image (Swing 1)

Trial 2: Level VL Image (Swing 1)



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

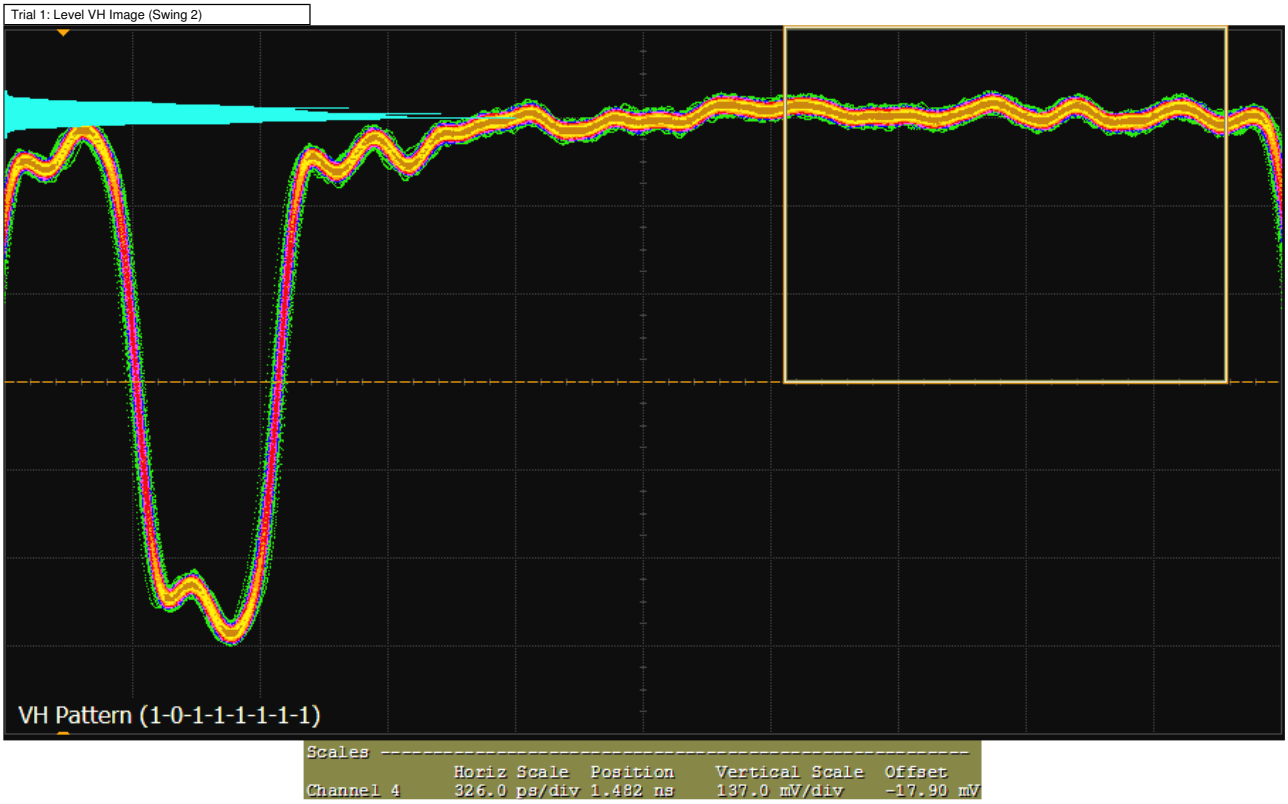
**Pass Limits:** [100.0 mdB to 5.1000 dB] | **Lane 3 Non-PreEmphasis Level Test (Swing 2/Swing 1) (Worst of 2 Trials)** 2.6964 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 2

**Overall Summary + details of 2 worst trials**

| Pass | 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 | BitR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *2.678 dB* | *48.44 %* | | | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *25.97 mdB* | *519.0 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Range* | *36.72 mdB* | *734.0 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Min* | *2.660 dB* | *48.07 %* | | | | | | | | | | | | | | | | | | | | |
| | *Max* | *2.696 dB* | *48.81 %* | | | | | | | | | | | | | | | | | | | | |
| | *Sum* | *5.356 dB* | *96.88 %* | | | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 2.6597 dB | 48.8% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 395.694 mV | -419.681 mV | 815.375 mV | 288.867 mV | -311.442 mV | 600.309 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbp |
| ✓ | Trial 2 (Worst) | 2.6964 dB | 48.1% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 395.436 mV | -418.812 mV | 814.248 mV | 286.992 mV | -309.957 mV | 596.950 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbp |

**Trial 1**

Trial 1: Level VH Image (Swing 2)



Trial 1: Level VL Image (Swing 2)

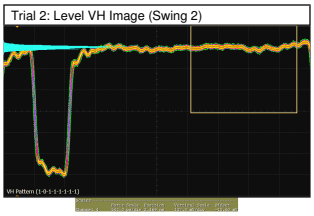

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 285.0 ps/div | 1.296 ns | 137.0 mV/div | -17.90 mV |

Trial 1: Level VL Image (Swing 1)

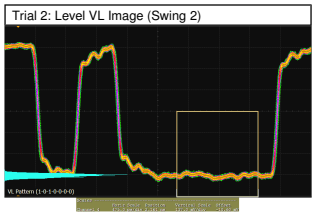

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 285.0 ps/div | 1.296 ns | 102.0 mV/div | -17.30 mV |

**Trial 2**

Trial 2: Level VH Image (Swing 2)

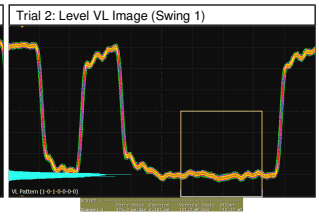


Trial 2: Level VL Image (Swing 2)



Trial 2: Level VH Image (Swing 1)

Trial 2: Level VL Image (Swing 1)



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## Lane 0 - Pre-Emphasis Level Test (Pre-emphasis 0)

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

Test Summary: Pass

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

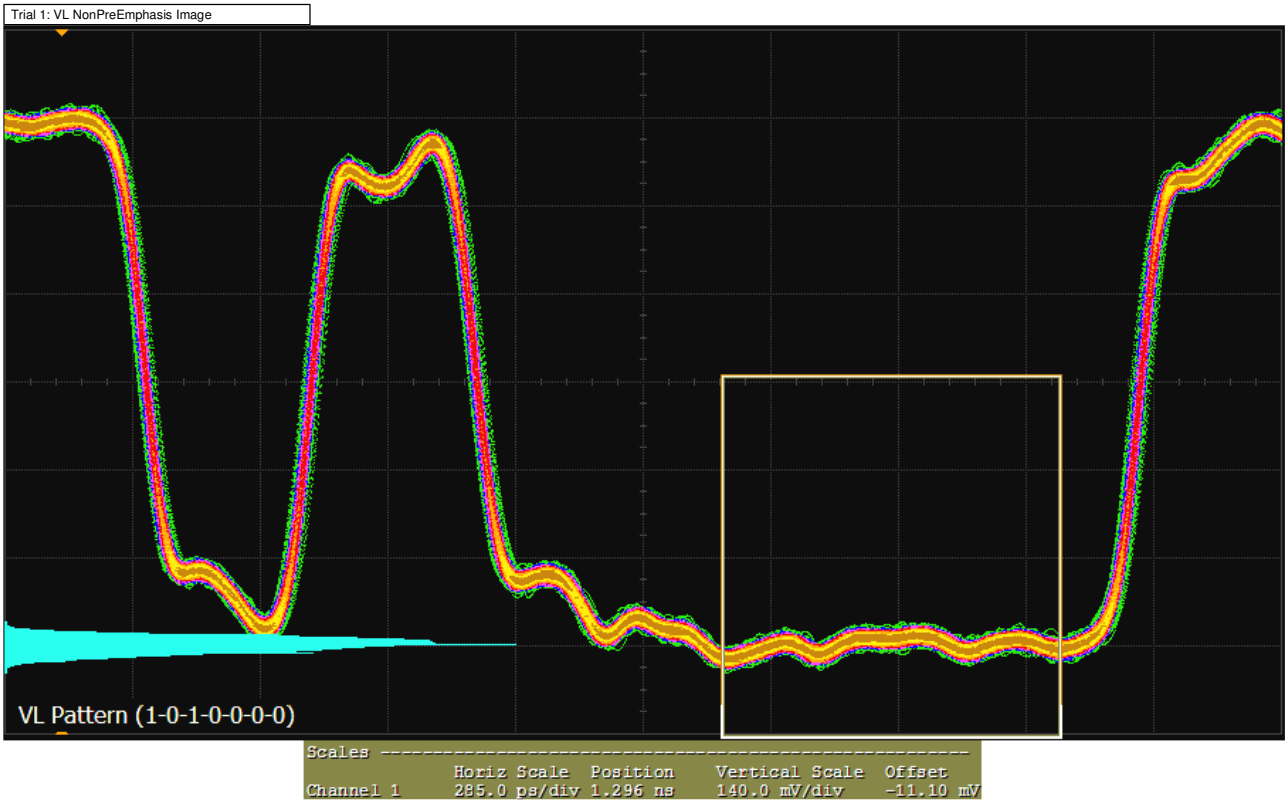
**Pass Limits:** <= 250 mdB | **PreEmphasis (Pre-emphasis 0) (Worst of 8 Trials)** -546 mdB | **# Trials Run:** 8 | **Worst Trial:** Trial 8

**Overall Summary + details of 8 worst trials**

| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VH NonPreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-1.277 dB* | *610.8 %* | | | | | | | | | | | |
| | *StdDev* | *705.2 mdB* | *282.1 %* | | | | | | | | | | | |
| | *Range* | *1.517 dB* | *607.2 %* | | | | | | | | | | | |
| | *Min* | *-2.064 dB* | *318.4 %* | | | | | | | | | | | |
| | *Max* | *-546.4 mdB* | *925.6 %* | | | | | | | | | | | |
| | *Sum* | *-10.21 dB* | *4.886 k%* | | | | | | | | | | | |
| ✓ | Trial 1 | -1.894 dB | 857.6% | (See image) | (See image) | 1000 | 659.238 mV | 819.850 mV | -1.894 dB | 2.7 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | -2.024 dB | 909.6% | (See image) | (See image) | 1000 | 482.050 mV | 608.543 mV | -2.024 dB | 2.7 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | -2.064 dB | 925.6% | (See image) | (See image) | 1000 | 338.319 mV | 429.059 mV | -2.064 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | -1.733 dB | 793.2% | (See image) | (See image) | 1000 | 829.258 mV | 1.012316 V | -1.733 dB | 2.7 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 5 | -595 mdB | 338.0% | (See image) | (See image) | 1000 | 760.296 mV | 814.202 mV | -595 mdB | 1.62 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 6 | -642 mdB | 356.8% | (See image) | (See image) | 1000 | 559.753 mV | 602.664 mV | -642 mdB | 1.62 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 7 | -717 mdB | 386.8% | (See image) | (See image) | 1000 | 389.368 mV | 422.883 mV | -717 mdB | 1.62 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 8 (Worst) | -546 mdB | 318.4% | (See image) | (See image) | 1000 | 944.975 mV | 1.006326 V | -546 mdB | 1.62 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image

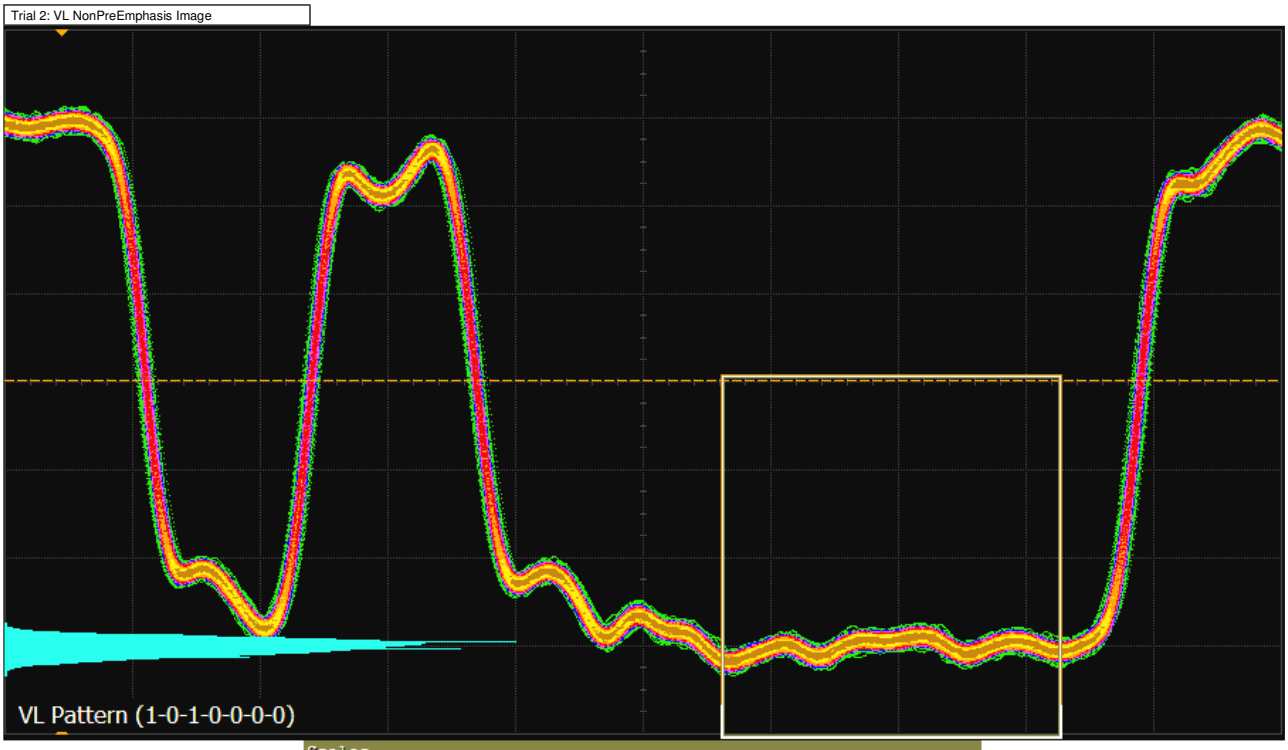


Trial 1: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 326.0 ps/div | 1.481 ns | 140.0 mV/div | -11.10 mV |

Trial 2

Trial 2: VL NonPreEmphasis Image



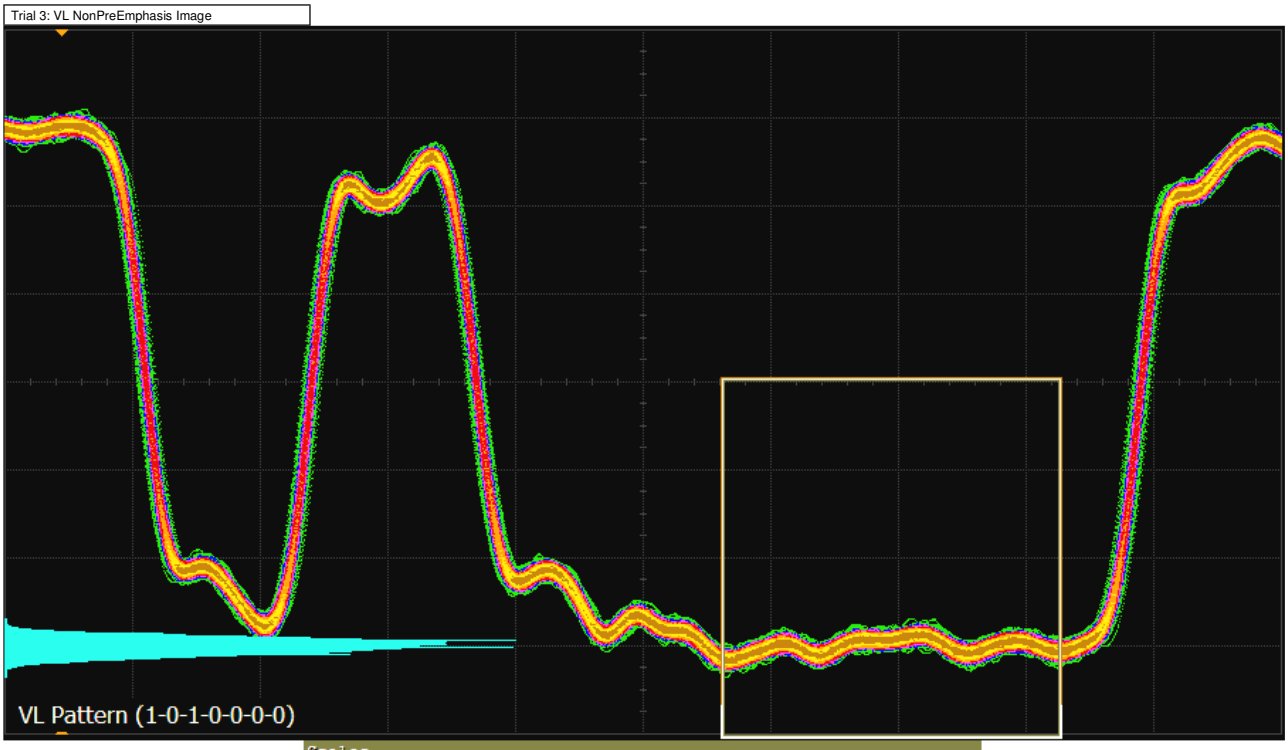

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 285.0 ps/div | 1.296 ns | 103.0 mV/div | -11.30 mV |

Trial 2: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 326.0 ps/div | 1.481 ns | 103.0 mV/div | -11.30 mV |

Trial 3

Trial 3: VL NonPreEmphasis Image



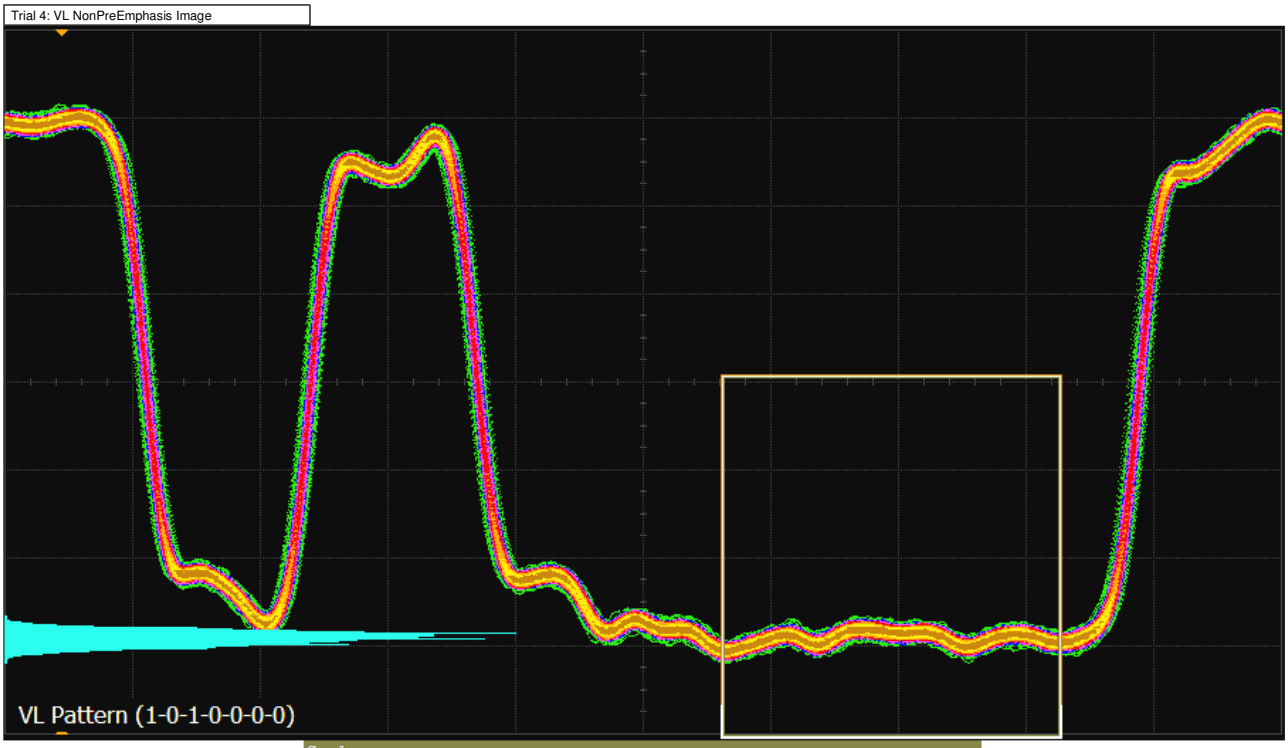

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 285.0 ps/div | 1.296 ns | 73.50 mV/div | -9.300 mV |

Trial 3: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 326.0 ps/div | 1.482 ns | 73.50 mV/div | -9.300 mV |

**Trial 4**

Trial 4: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 285.0 ps/div | 1.296 ns | 171.0 mV/div | -11.40 mV |

Trial 4: VH NonPreEmphasis Image

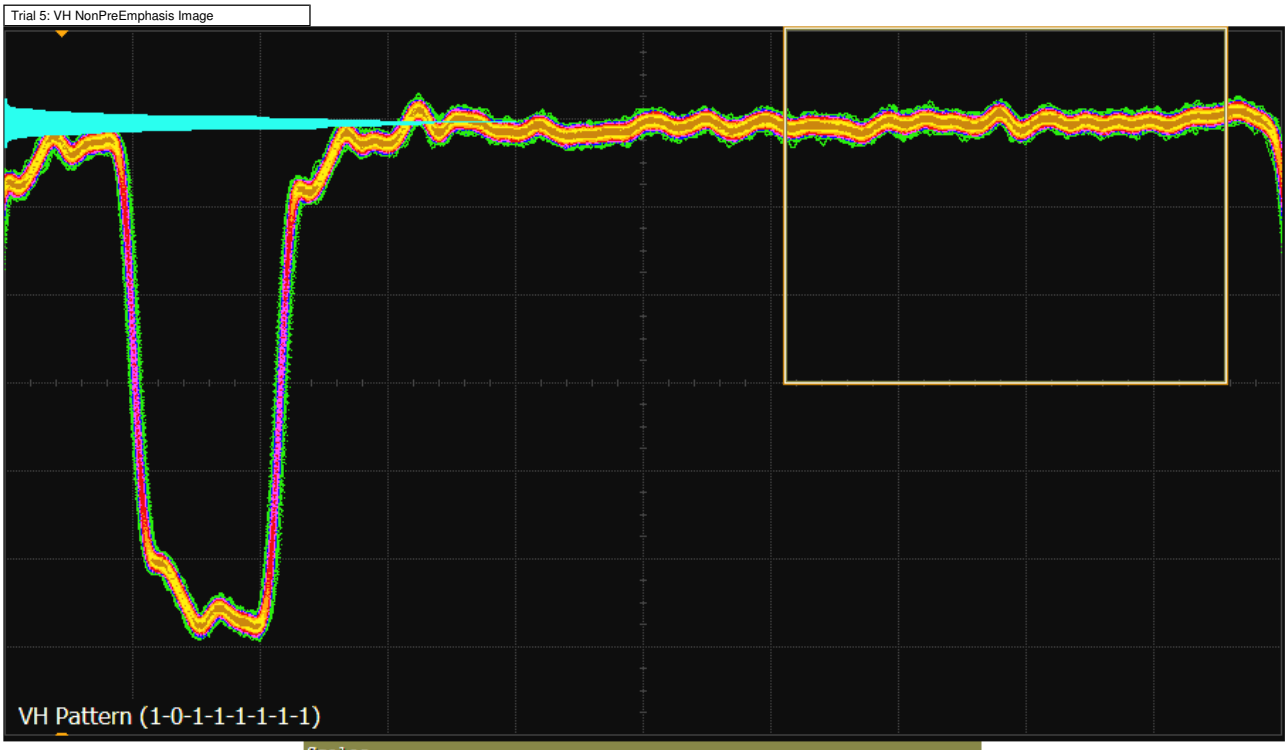

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 326.0 ps/div | 1.482 ns | 171.0 mV/div | -11.40 mV |

Trial 5

Trial 5: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 475.0 ps/div | 2.161 ns | 143.0 mV/div | -14.80 mV |

Trial 5: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 543.0 ps/div | 2.469 ns | 143.0 mV/div | -14.80 mV |

**Trial 6**

Trial 6: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 475.0 ps/div | 2.161 ns | 106.0 mV/div | -17.10 mV |

Trial 6: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 543.0 ps/div | 2.469 ns | 106.0 mV/div | -17.10 mV |

Trial 7

Trial 7: VL NonPreEmphasis Image

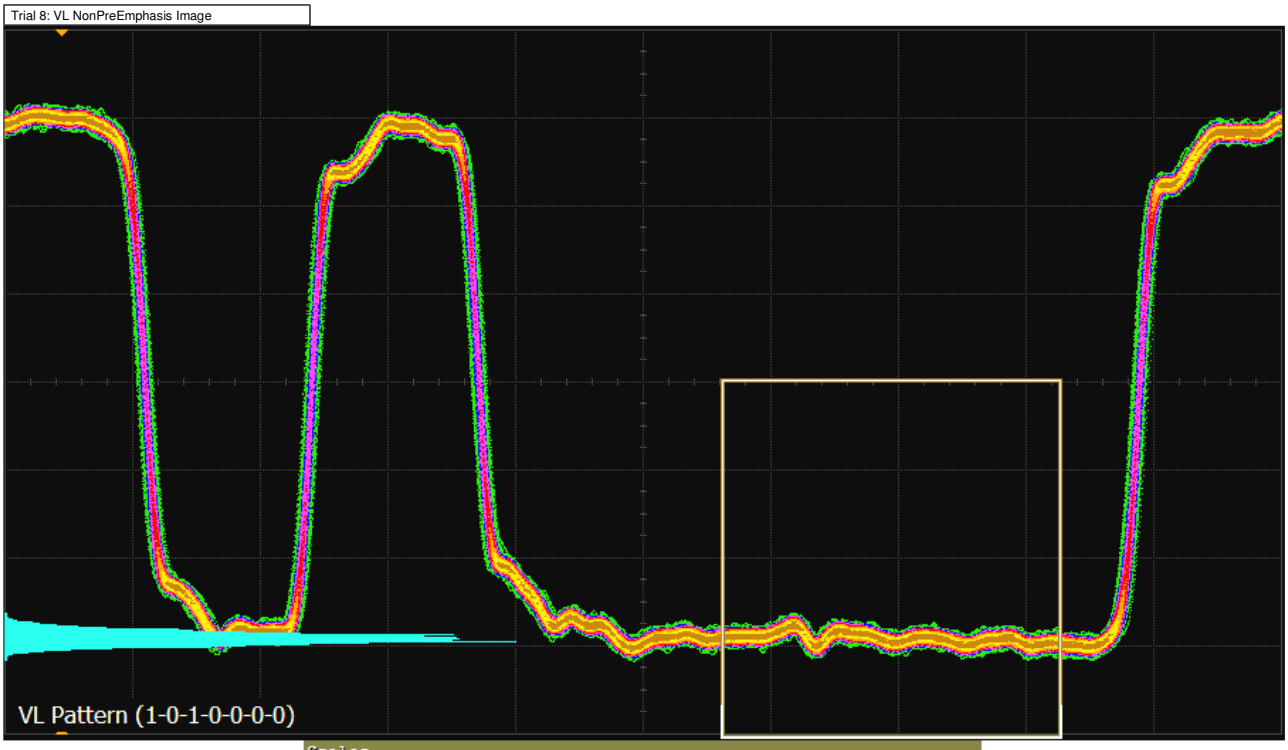

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 475.0 ps/div | 2.161 ns | 74.20 mV/div | -13.20 mV |

Trial 7: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 543.0 ps/div | 2.469 ns | 74.20 mV/div | -13.20 mV |

Trial 8

Trial 8: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 475.0 ps/div | 2.161 ns | 173.0 mV/div | -19.40 mV |

Trial 8: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 543.0 ps/div | 2.469 ns | 173.0 mV/div | -19.40 mV |

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## Lane 1 - Pre-Emphasis Level Test (Pre-emphasis 0)

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

Test Summary: Pass

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

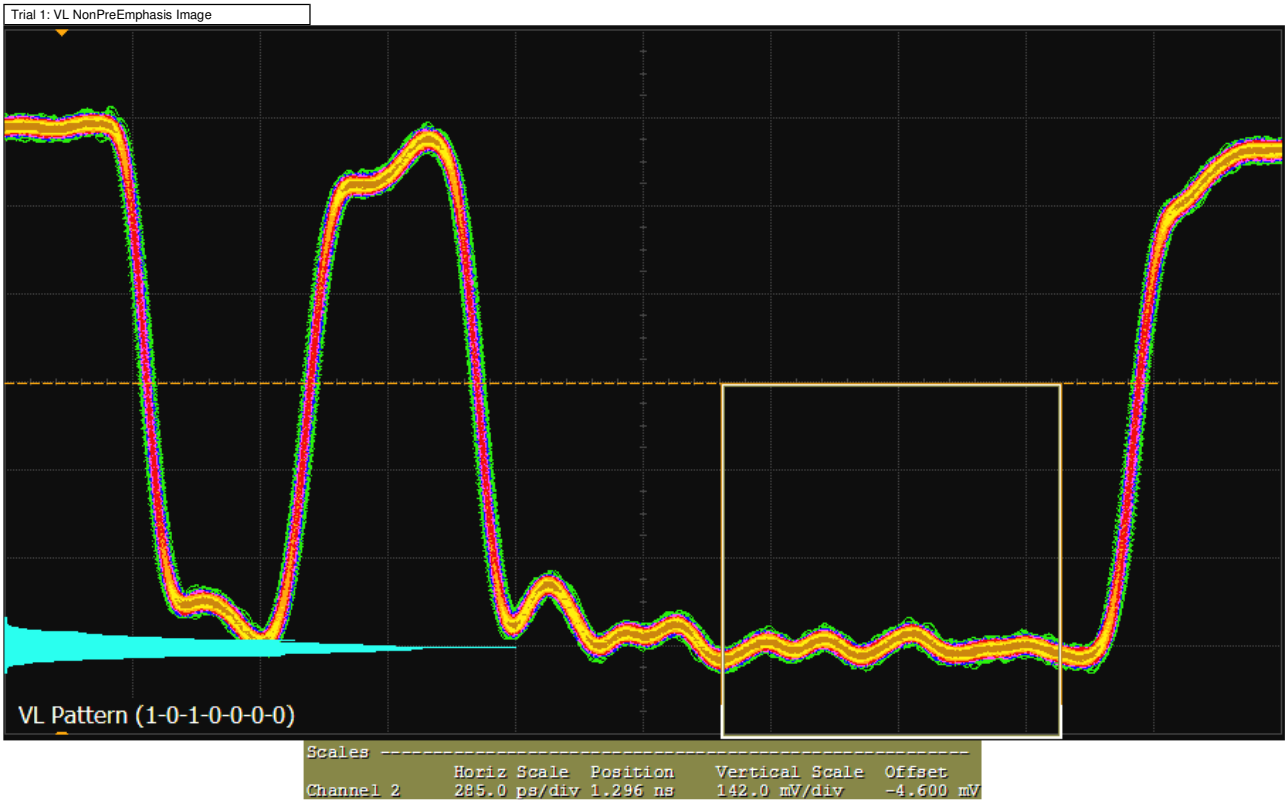
**Pass Limits:** <= 250 mdB | **PreEmphasis(Pre-emphasis 0) (Worst of 8 Trials)** -514 mdB | **# Trials Run:** 8 | **Worst Trial:** Trial 8

**Overall Summary + details of 8 worst trials**

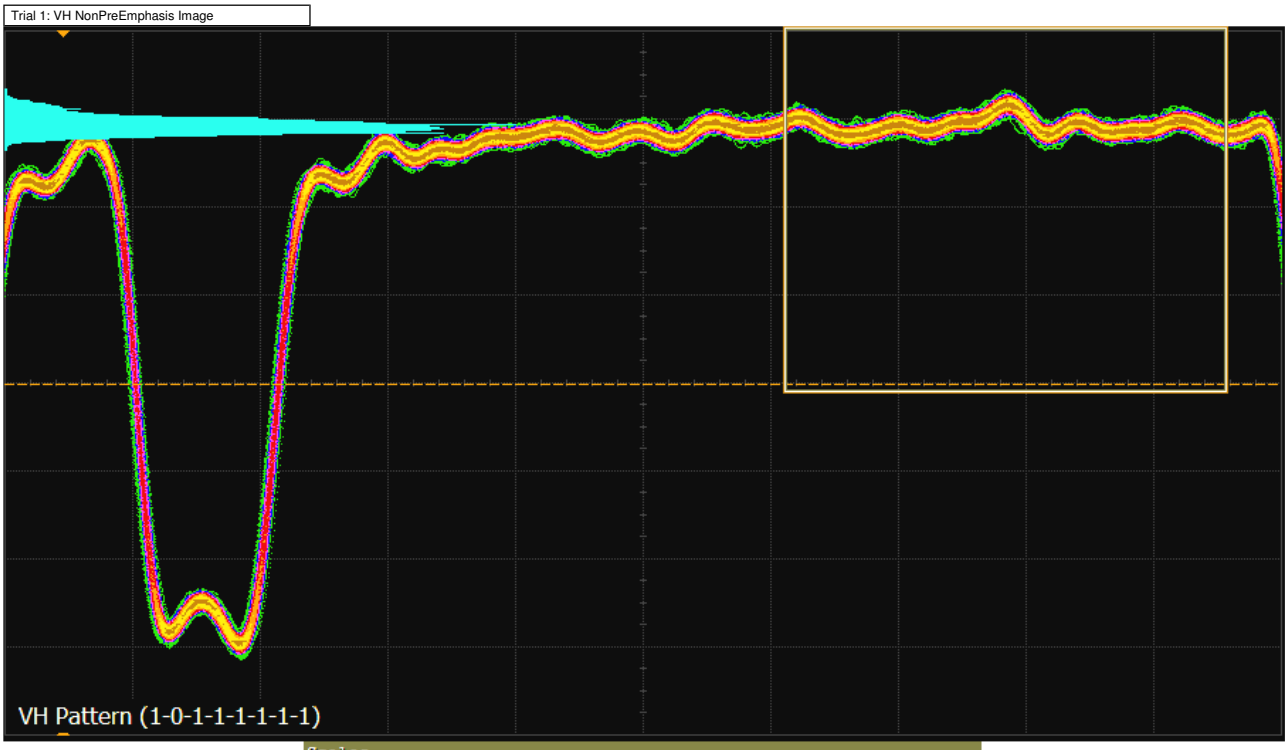
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VH NonPreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-1.053 dB* | *521.3 %* | | | | | | | | | | | |
| | *StdDev* | *454.2 mdB* | *181.8 %* | | | | | | | | | | | |
| | *Range* | *1.086 dB* | *434.4 %* | | | | | | | | | | | |
| | *Min* | *-1.600 dB* | *305.6 %* | | | | | | | | | | | |
| | *Max* | *-514.2 mdB* | *740.0 %* | | | | | | | | | | | |
| | *Sum* | *-8.426 dB* | *4.170 k%* | | | | | | | | | | | |
| ✓ | Trial 1 | -1.426 dB | 670.4% | (See image) | (See image) | 1000 | 695.662 mV | 819.768 mV | -1.426 dB | 2.7 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | -1.524 dB | 709.6% | (See image) | (See image) | 1000 | 511.980 mV | 610.155 mV | -1.524 dB | 2.7 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | -1.600 dB | 740.0% | (See image) | (See image) | 1000 | 357.736 mV | 430.084 mV | -1.600 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | -1.319 dB | 627.6% | (See image) | (See image) | 1000 | 868.602 mV | 1.010999 V | -1.319 dB | 2.7 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 5 | -617 mdB | 346.8% | (See image) | (See image) | 1000 | 758.683 mV | 814.571 mV | -617 mdB | 1.62 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 6 | -674 mdB | 369.6% | (See image) | (See image) | 1000 | 559.335 mV | 604.484 mV | -674 mdB | 1.62 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 7 | -752 mdB | 400.8% | (See image) | (See image) | 1000 | 390.075 mV | 425.355 mV | -752 mdB | 1.62 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 8 (Worst) | -514 mdB | 305.6% | (See image) | (See image) | 1000 | 949.266 mV | 1.007163 V | -514 mdB | 1.62 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image



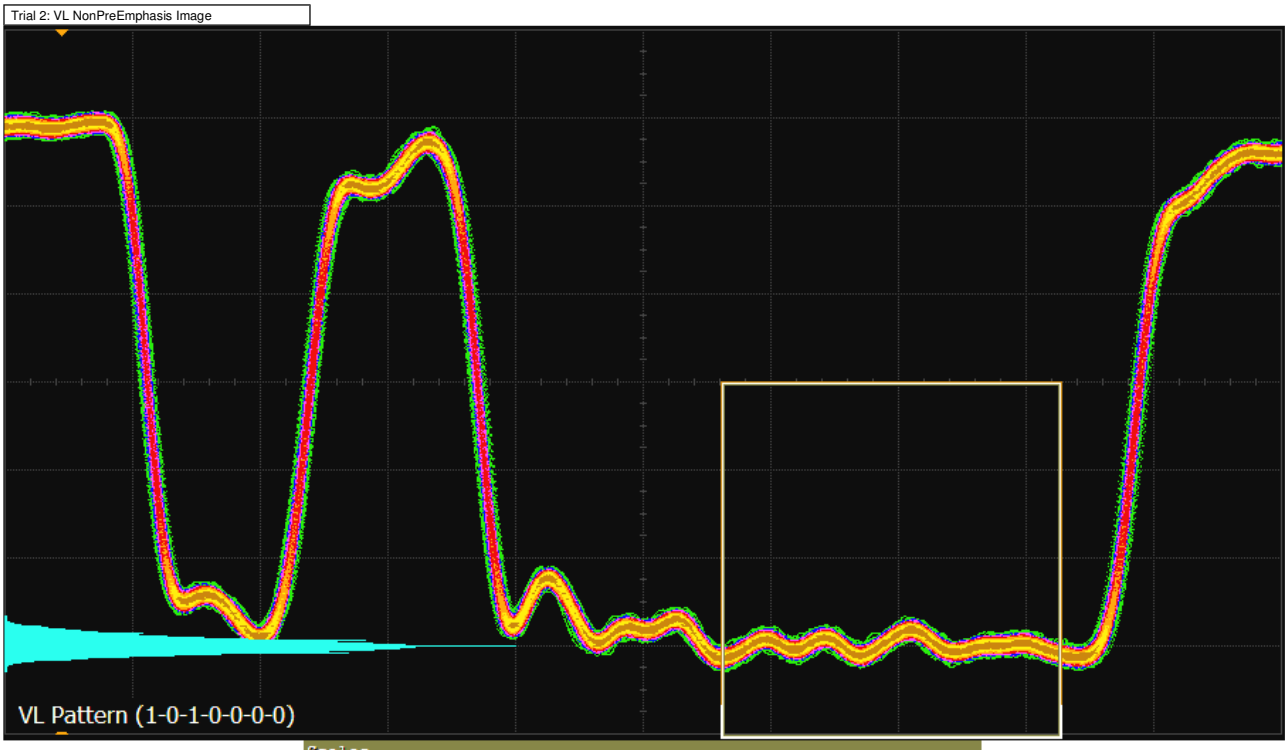
Trial 1: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 326.0 ps/div | 1.481 ns | 142.0 mV/div | -4.600 mV |

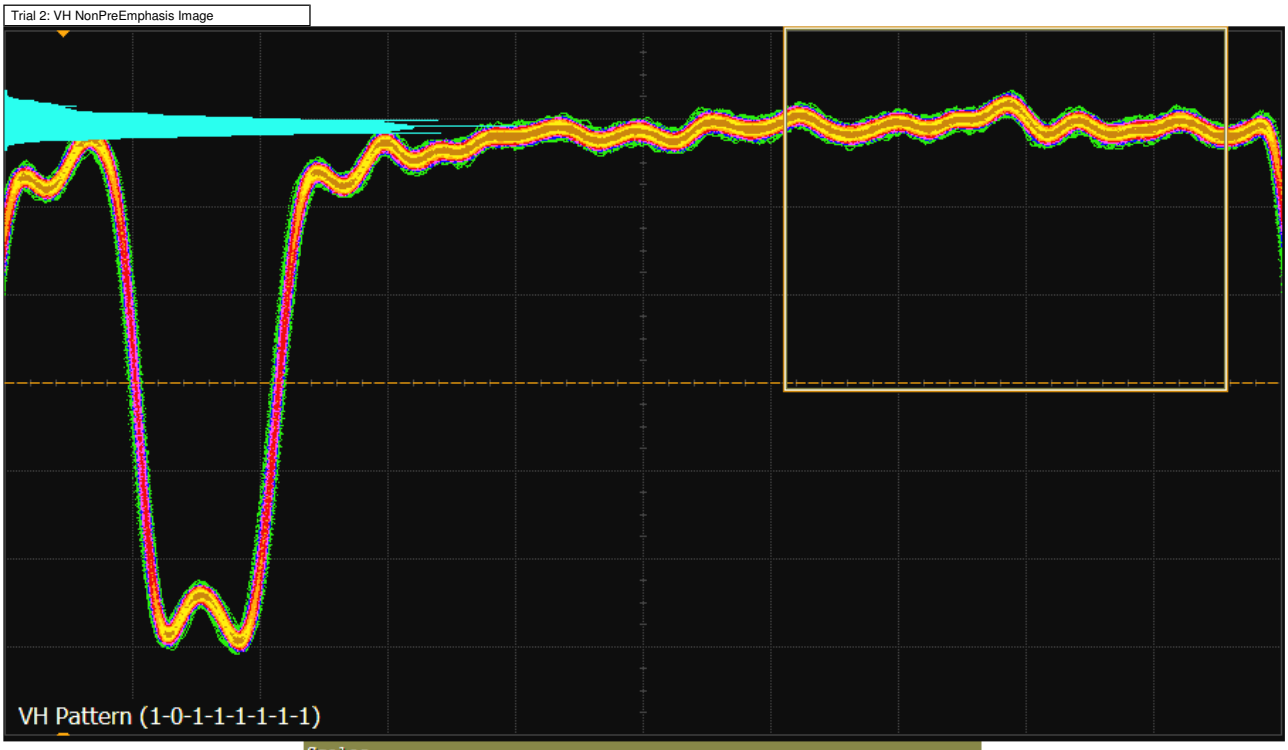
Trial 2

Trial 2: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 285.0 ps/div | 1.296 ns | 105.0 mV/div | -6.000 mV |

Trial 2: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 326.0 ps/div | 1.481 ns | 105.0 mV/div | -6.000 mV |

Trial 3

Trial 3: VL NonPreEmphasis Image

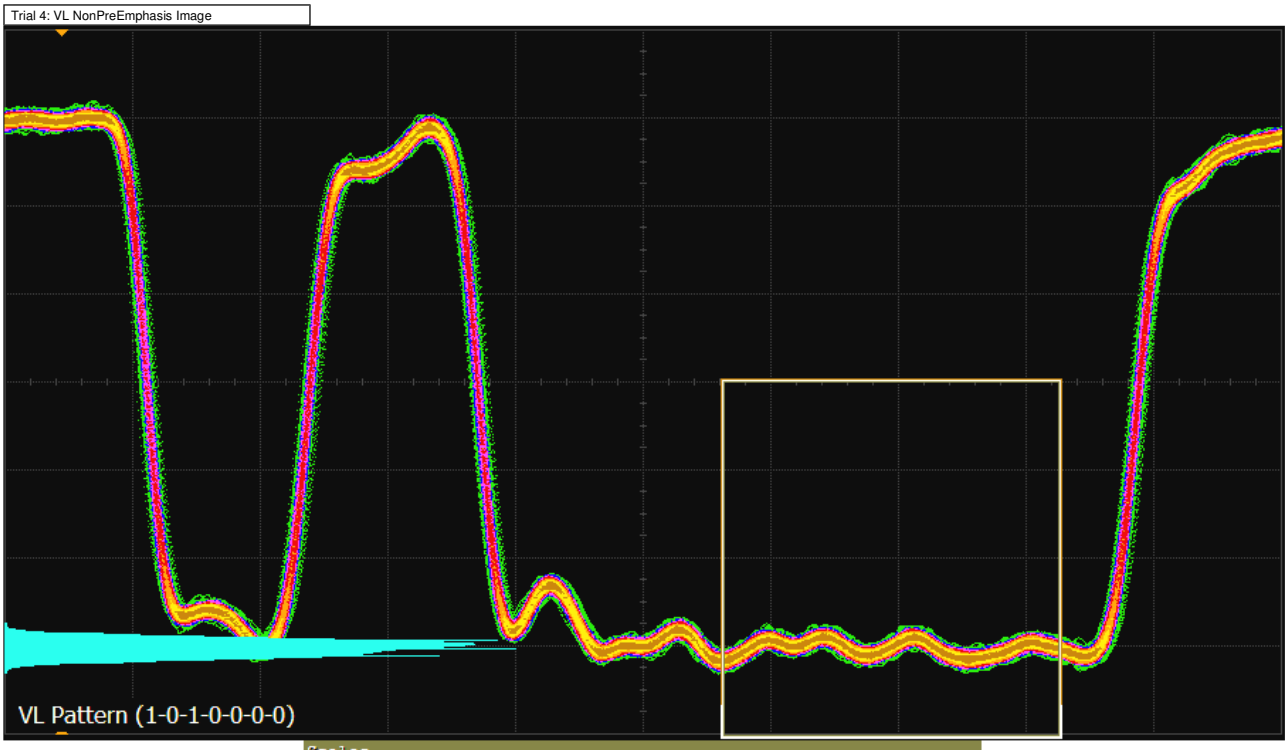

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 285.0 ps/div | 1.296 ns | 73.50 mV/div | -8.300 mV |

Trial 3: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 326.0 ps/div | 1.481 ns | 73.50 mV/div | -8.300 mV |

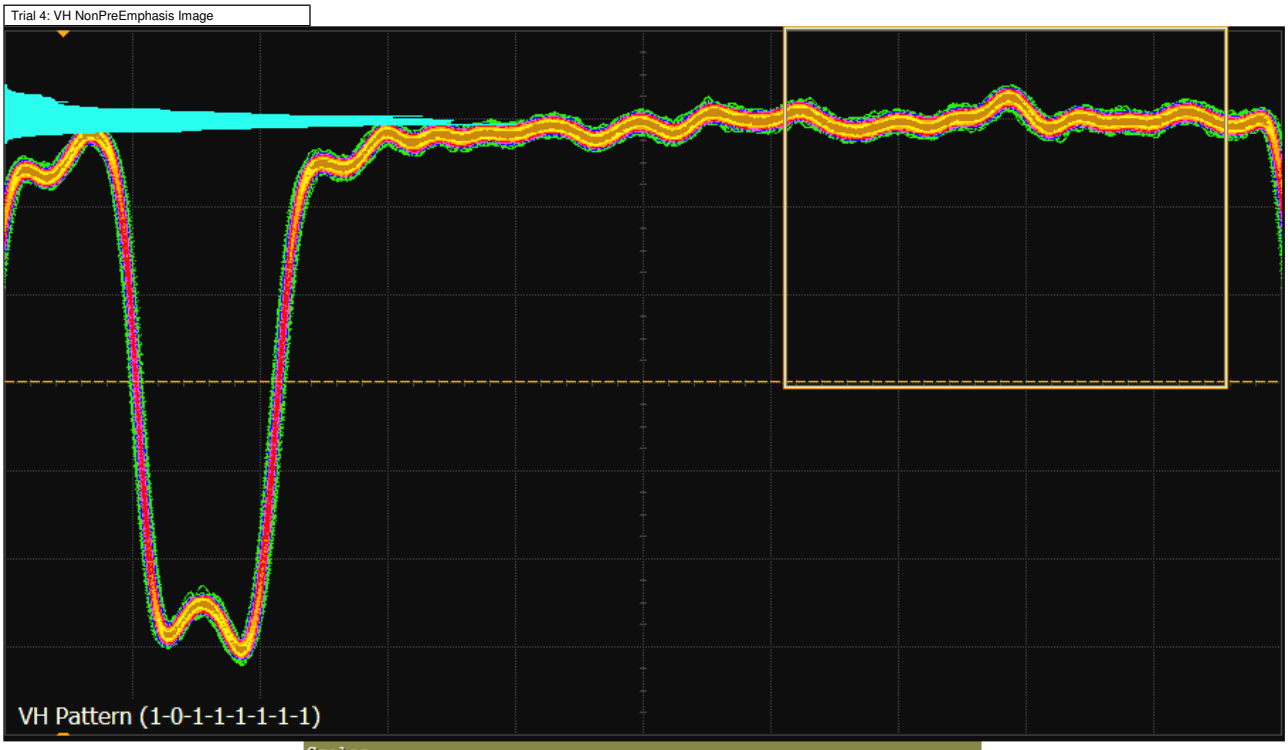
**Trial 4**

Trial 4: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 285.0 ps/div | 1.296 ns | 172.0 mV/div | -4.700 mV |

Trial 4: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 326.0 ps/div | 1.481 ns | 172.0 mV/div | -4.700 mV |

**Trial 5**

Trial 5: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 475.0 ps/div | 2.161 ns | 143.0 mV/div | 1.000 mV |

Trial 5: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 543.0 ps/div | 2.469 ns | 143.0 mV/div | 1.000 mV |

**Trial 6**

Trial 6: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 475.0 ps/div | 2.161 ns | 105.0 mV/div | -2.300 mV |

Trial 6: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 543.0 ps/div | 2.469 ns | 105.0 mV/div | -2.300 mV |

Trial 7

Trial 7: VL NonPreEmphasis Image

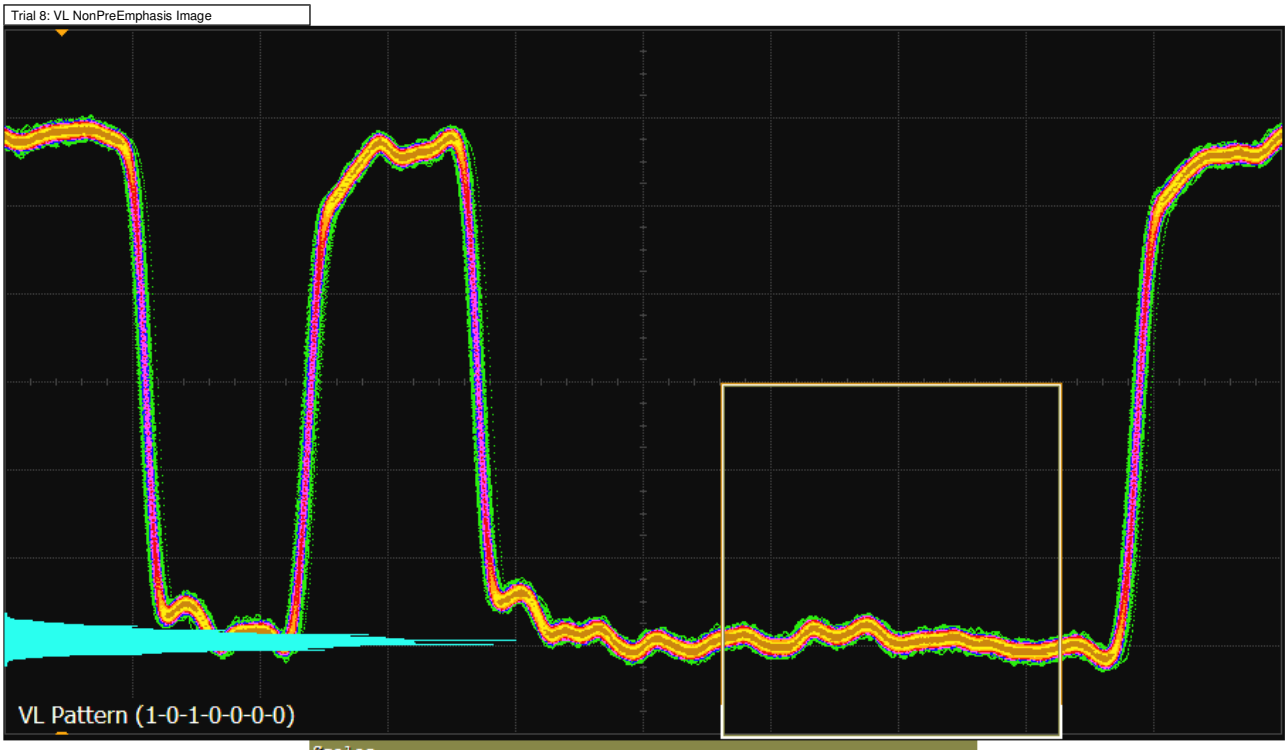

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 475.0 ps/div | 2.161 ns | 75.10 mV/div | -4.800 mV |

Trial 7: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 543.0 ps/div | 2.469 ns | 75.10 mV/div | -4.800 mV |

Trial 8

Trial 8: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 475.0 ps/div | 2.161 ns | 175.0 mV/div | 1.100 mV |

Trial 8: VH NonPreEmphasis Image


Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 543.0 ps/div | 2.469 ns | 175.0 mV/div | 1.100 mV |

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## Lane 2 - Pre-Emphasis Level Test (Pre-emphasis 0)

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

Test Summary: Pass

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

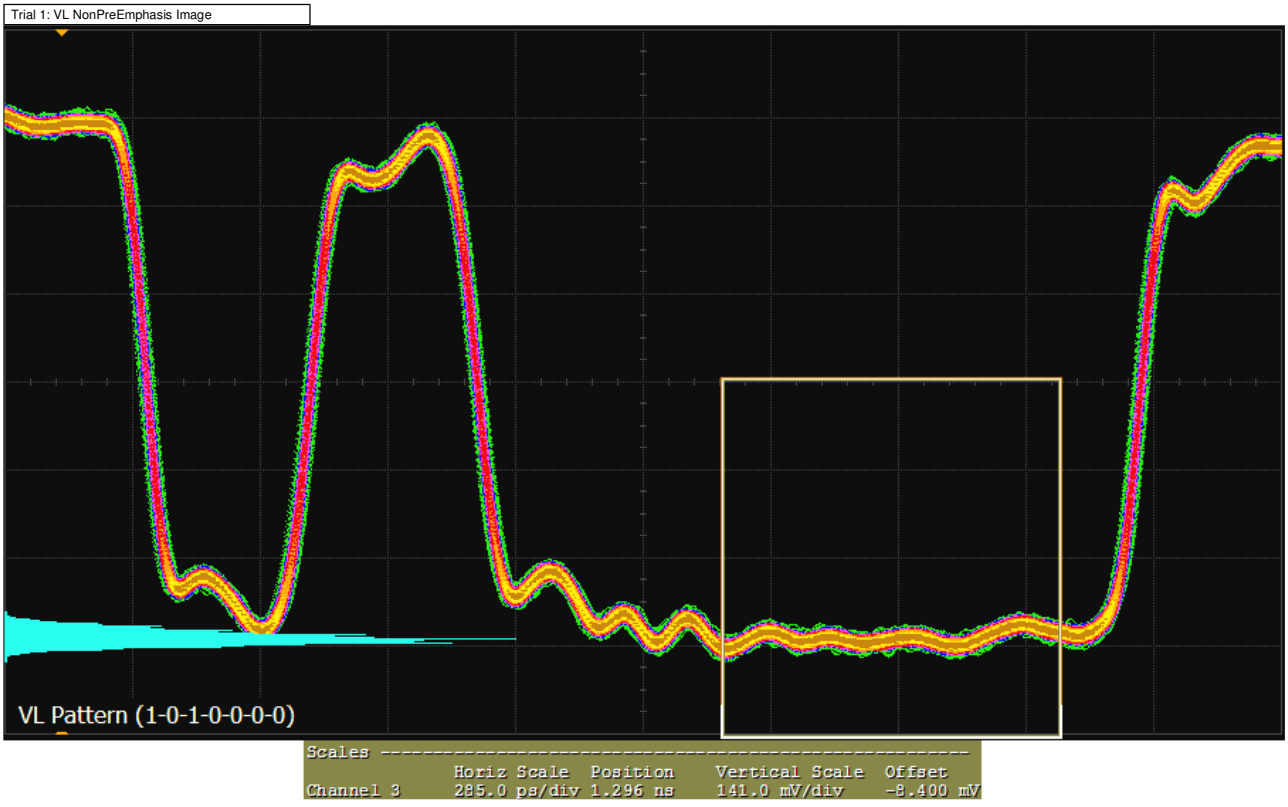
**Pass Limits:** <= 250 mdB | **PreEmphasis(Pre-emphasis 0) (Worst of 8 Trials)** -641 mdB | **# Trials Run:** 8 | **Worst Trial:** Trial 8

**Overall Summary + details of 8 worst trials**

| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VH NonPreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-1.170 dB* | *567.9 %* | | | | | | | | | | | |
| | *StdDev* | *445.9 mdB* | *178.4 %* | | | | | | | | | | | |
| | *Range* | *1.095 dB* | *438.0 %* | | | | | | | | | | | |
| | *Min* | *-1.736 dB* | *356.4 %* | | | | | | | | | | | |
| | *Max* | *-641.4 mdB* | *794.4 %* | | | | | | | | | | | |
| | *Sum* | *-9.357 dB* | *4.543 k%* | | | | | | | | | | | |
| ✓ | Trial 1 | -1.528 dB | 711.2% | (See image) | (See image) | 1000 | 695.474 mV | 829.219 mV | -1.528 dB | 2.7 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | -1.641 dB | 756.4% | (See image) | (See image) | 1000 | 514.796 mV | 621.816 mV | -1.641 dB | 2.7 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | -1.736 dB | 794.4% | (See image) | (See image) | 1000 | 362.682 mV | 442.925 mV | -1.736 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | -1.386 dB | 654.4% | (See image) | (See image) | 1000 | 853.109 mV | 1.000731 V | -1.386 dB | 2.7 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 5 | -767 mdB | 406.8% | (See image) | (See image) | 1000 | 746.089 mV | 814.935 mV | -767 mdB | 1.62 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 6 | -852 mdB | 440.8% | (See image) | (See image) | 1000 | 552.960 mV | 609.977 mV | -852 mdB | 1.62 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 7 | -806 mdB | 422.4% | (See image) | (See image) | 1000 | 385.586 mV | 423.088 mV | -806 mdB | 1.62 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 8 (Worst) | -641 mdB | 356.4% | (See image) | (See image) | 1000 | 925.083 mV | 995.978 mV | -641 mdB | 1.62 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image



Trial 1: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 326.0 ps/div | 1.481 ns | 141.0 mV/div | -8.400 mV |

**Trial 2**

Trial 2: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 285.0 ps/div | 1.296 ns | 106.0 mV/div | -11.30 mV |

Trial 2: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 326.0 ps/div | 1.481 ns | 106.0 mV/div | -11.30 mV |

Trial 3

Trial 3: VL NonPreEmphasis Image

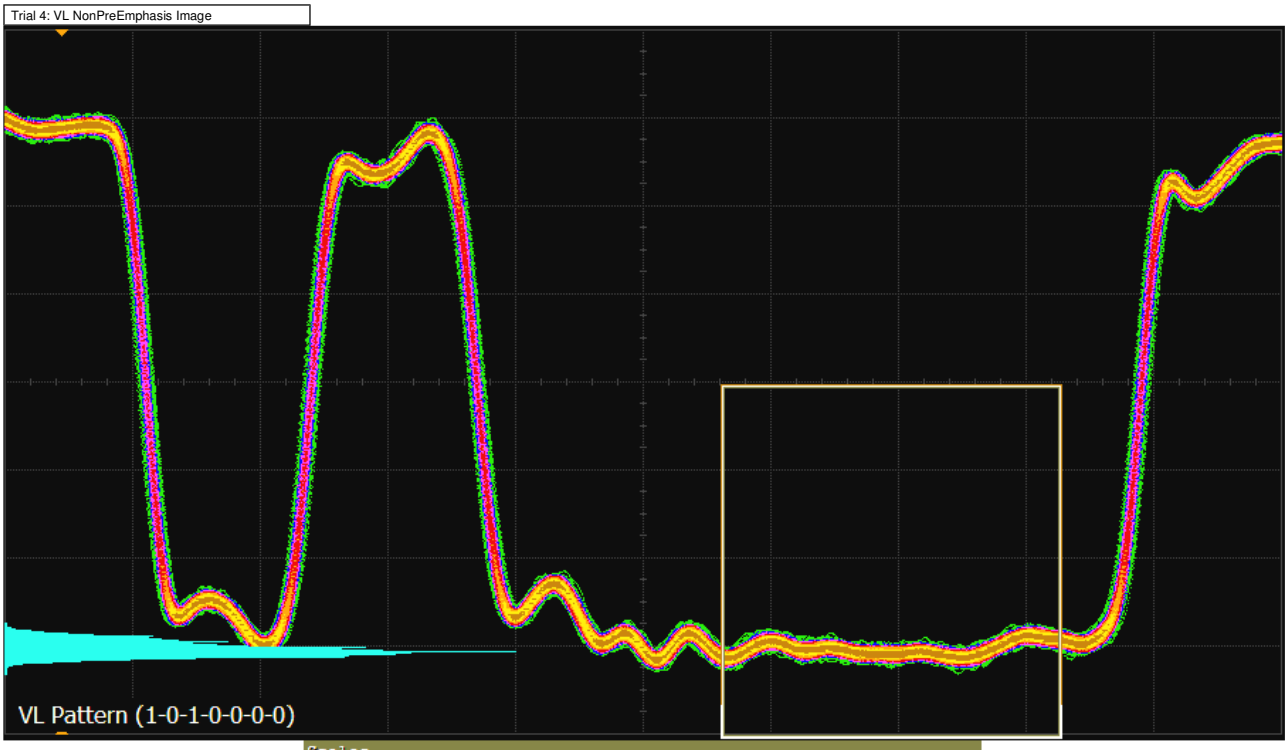

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 285.0 ps/div | 1.296 ns | 74.80 mV/div | -9.300 mV |

Trial 3: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 326.0 ps/div | 1.482 ns | 74.80 mV/div | -9.300 mV |

Trial 4

Trial 4: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 285.0 ps/div | 1.296 ns | 171.0 mV/div | -3.400 mV |

Trial 4: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 326.0 ps/div | 1.482 ns | 171.0 mV/div | -3.400 mV |

**Trial 5**

Trial 5: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 475.0 ps/div | 2.161 ns | 145.0 mV/div | -700.0 µV |

Trial 5: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 543.0 ps/div | 2.469 ns | 145.0 mV/div | -700.0 µV |

Trial 6

Trial 6: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 475.0 ps/div | 2.161 ns | 108.0 mV/div | -9.300 mV |

Trial 6: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 543.0 ps/div | 2.469 ns | 108.0 mV/div | -9.300 mV |

Trial 7

Trial 7: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 475.0 ps/div | 2.161 ns | 73.40 mV/div | -11.30 mV |

Trial 7: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 543.0 ps/div | 2.469 ns | 73.40 mV/div | -11.30 mV |

Trial 8

Trial 8: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 475.0 ps/div | 2.161 ns | 174.0 mV/div | -1.300 mV |

Trial 8: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 543.0 ps/div | 2.469 ns | 174.0 mV/div | -1.300 mV |

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## Lane 3 - Pre-Emphasis Level Test (Pre-emphasis 0)

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

Test Summary: Pass

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

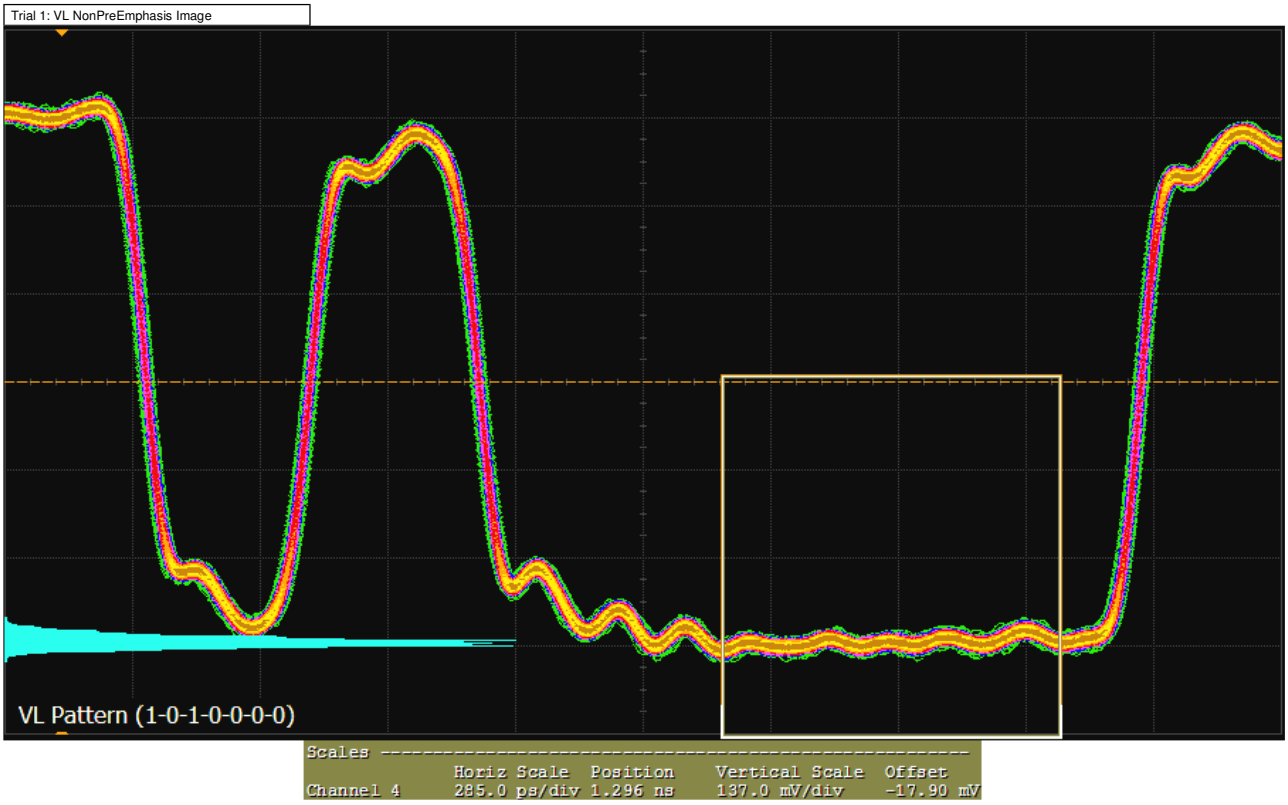
**Pass Limits:** <= 250 mdB | **PreEmphasis(Pre-emphasis 0) (Worst of 8 Trials)** -727 mdB | **# Trials Run:** 8 | **Worst Trial:** Trial 8

**Overall Summary + details of 8 worst trials**

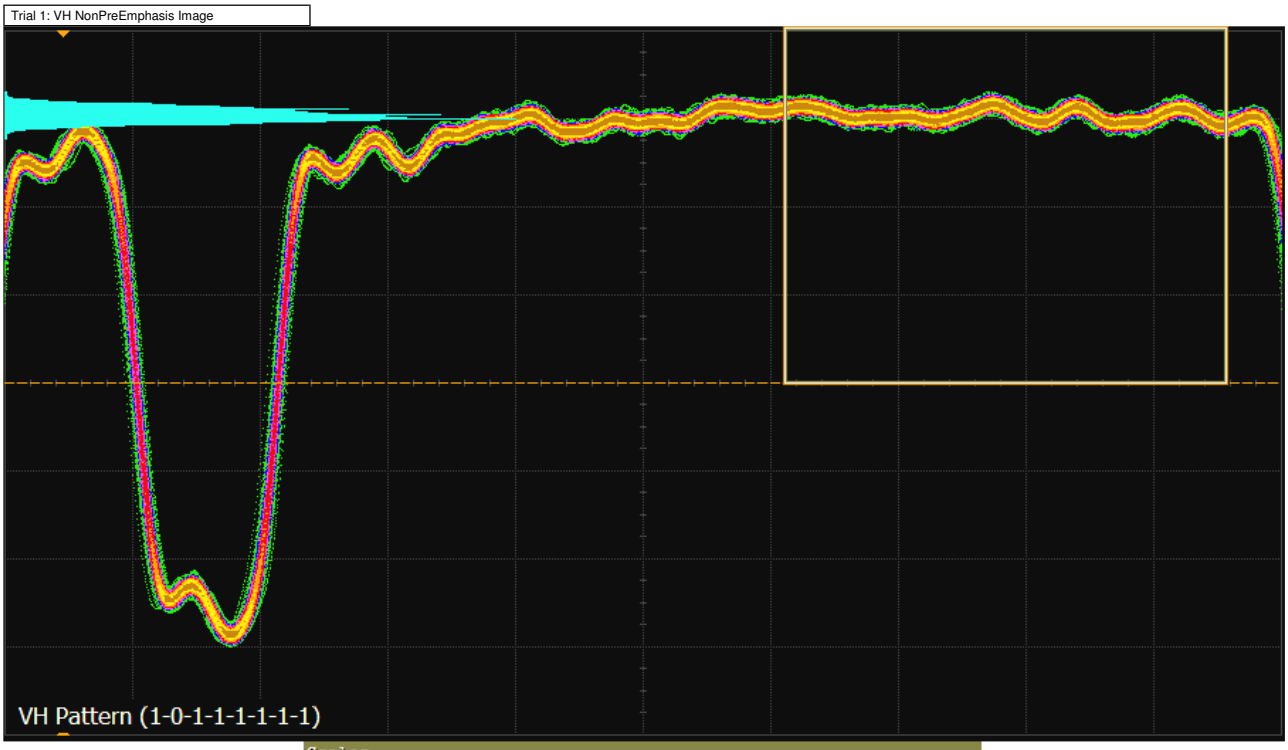
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VH NonPreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-1.088 dB* | *535.3 %* | | | | | | | | | | | |
| | *StdDev* | *255.7 mdB* | *102.3 %* | | | | | | | | | | | |
| | *Range* | *713.6 mdB* | *285.2 %* | | | | | | | | | | | |
| | *Min* | *-1.440 dB* | *390.8 %* | | | | | | | | | | | |
| | *Max* | *-726.9 mdB* | *676.0 %* | | | | | | | | | | | |
| | *Sum* | *-8.706 dB* | *4.282 k%* | | | | | | | | | | | |
| ✓ | Trial 1 | -1.255 dB | 602.0% | (See image) | (See image) | 1000 | 705.712 mV | 815.375 mV | -1.255 dB | 2.7 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | -1.399 dB | 659.6% | (See image) | (See image) | 1000 | 510.985 mV | 600.309 mV | -1.399 dB | 2.7 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | -1.440 dB | 676.0% | (See image) | (See image) | 1000 | 354.068 mV | 417.935 mV | -1.440 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | -1.079 dB | 531.6% | (See image) | (See image) | 1000 | 899.368 mV | 1.018339 V | -1.079 dB | 2.7 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 5 | -862 mdB | 444.8% | (See image) | (See image) | 1000 | 737.290 mV | 814.248 mV | -862 mdB | 1.62 Gbps | Swing 2 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 6 | -957 mdB | 482.8% | (See image) | (See image) | 1000 | 534.680 mV | 596.950 mV | -957 mdB | 1.62 Gbps | Swing 1 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 7 | -986 mdB | 494.4% | (See image) | (See image) | 1000 | 370.512 mV | 415.061 mV | -986 mdB | 1.62 Gbps | Swing 0 | Pre-emphasis 0 | SSC Disabled | Level 0 |
| ✓ | Trial 8 (Worst) | -727 mdB | 390.8% | (See image) | (See image) | 1000 | 929.405 mV | 1.010531 V | -727 mdB | 1.62 Gbps | Swing 3 | Pre-emphasis 0 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image



Trial 1: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 326.0 ps/div | 1.482 ns | 137.0 mV/div | -17.90 mV |

Trial 2

Trial 2: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 285.0 ps/div | 1.296 ns | 102.0 mV/div | -17.30 mV |

Trial 2: VH NonPreEmphasis Image

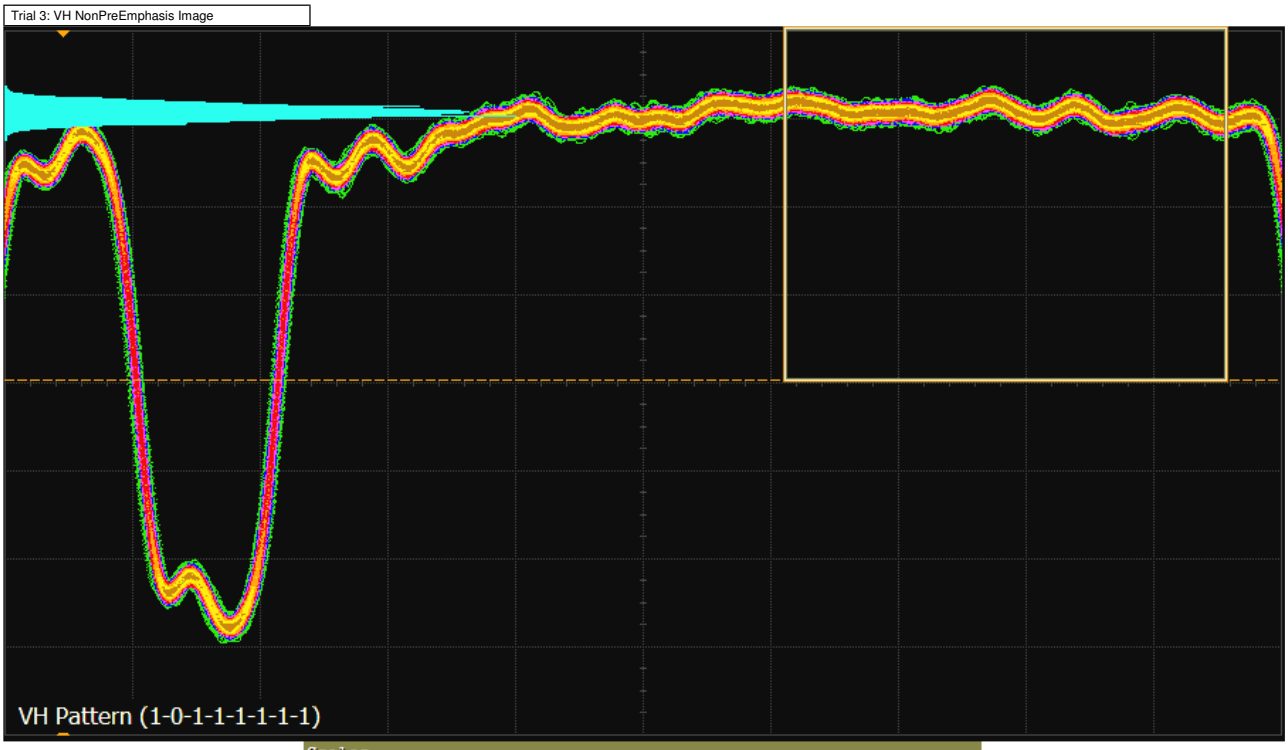

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 326.0 ps/div | 1.482 ns | 102.0 mV/div | -17.30 mV |

Trial 3

Trial 3: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 285.0 ps/div | 1.296 ns | 72.40 mV/div | -14.00 mV |

Trial 3: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 326.0 ps/div | 1.481 ns | 72.40 mV/div | -14.00 mV |

**Trial 4**

Trial 4: VL NonPreEmphasis Image

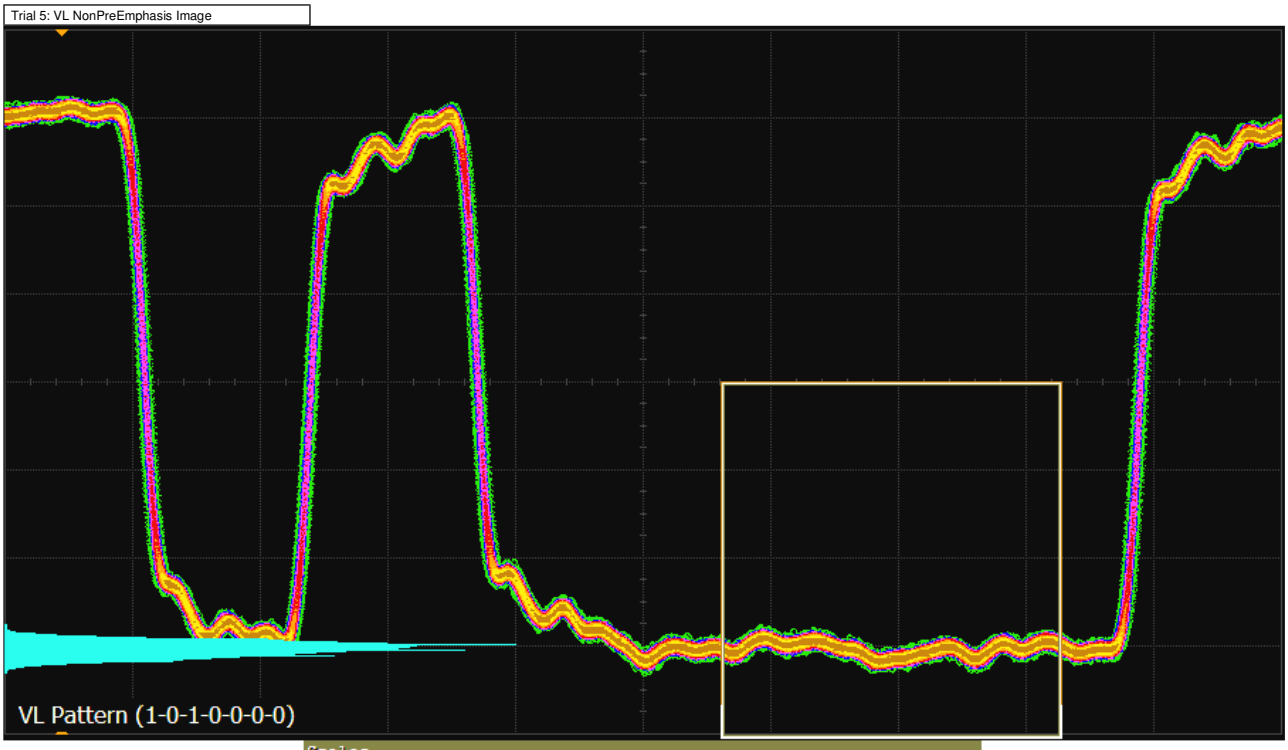

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 285.0 ps/div | 1.296 ns | 169.0 mV/div | -22.90 mV |

Trial 4: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 326.0 ps/div | 1.481 ns | 169.0 mV/div | -22.90 mV |

**Trial 5**

Trial 5: VL NonPreEmphasis Image



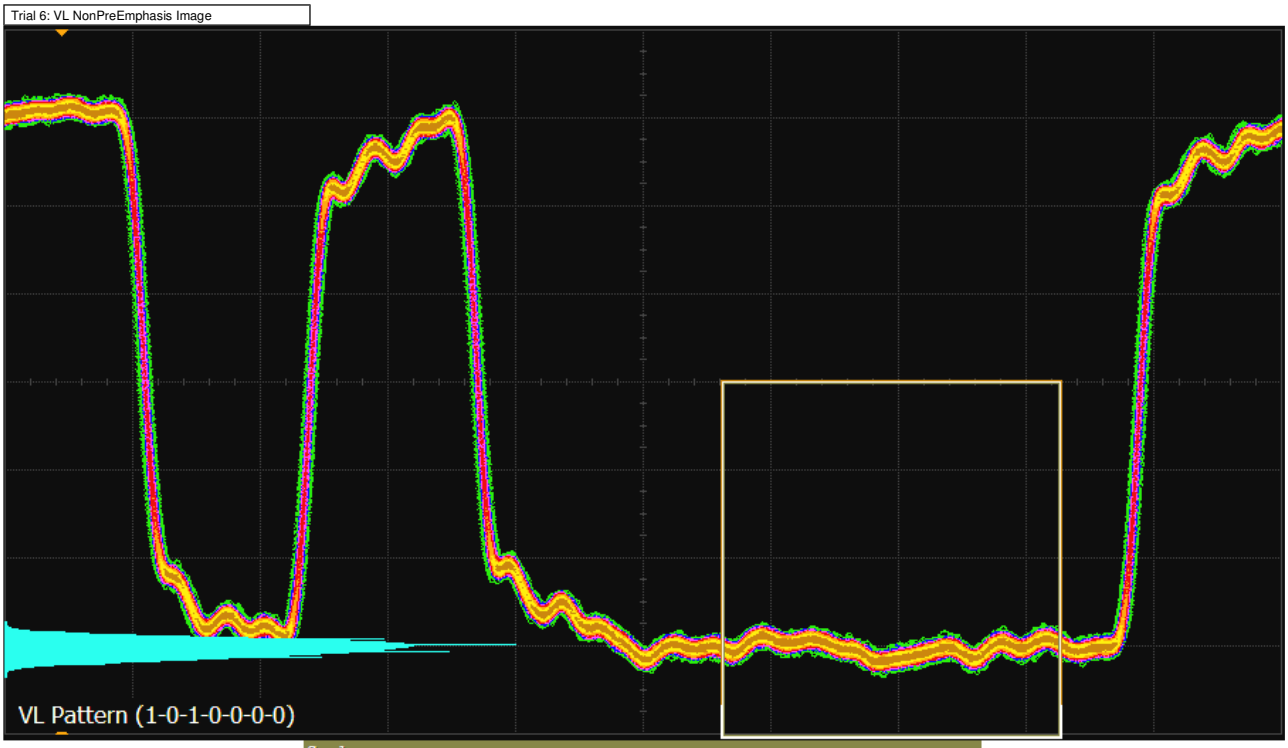

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 475.0 ps/div | 2.161 ns | 137.0 mV/div | -10.60 mV |

Trial 5: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 543.0 ps/div | 2.469 ns | 137.0 mV/div | -10.60 mV |

**Trial 6**

Trial 6: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 475.0 ps/div | 2.161 ns | 101.0 mV/div | -10.70 mV |

Trial 6: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 543.0 ps/div | 2.469 ns | 101.0 mV/div | -10.70 mV |

Trial 7

Trial 7: VL NonPreEmphasis Image

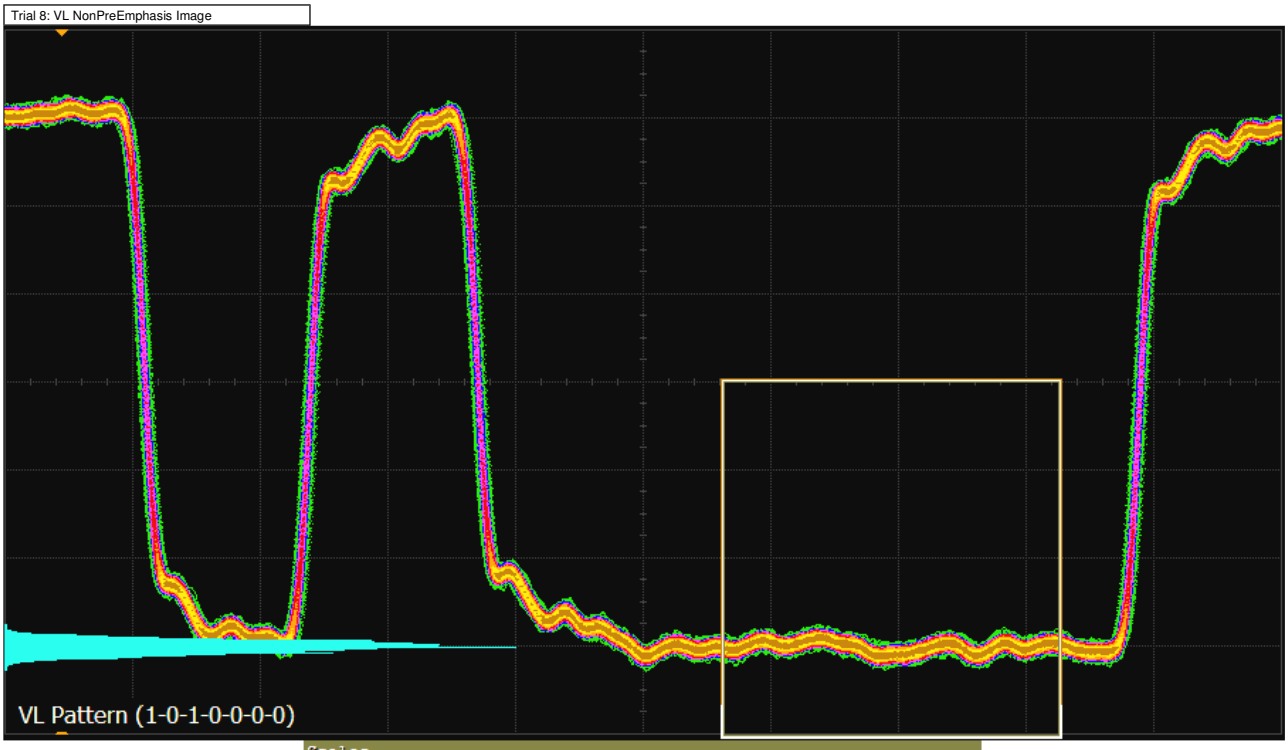

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 475.0 ps/div | 2.161 ns | 71.70 mV/div | -11.90 mV |

Trial 7: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 543.0 ps/div | 2.469 ns | 71.70 mV/div | -11.90 mV |

Trial 8

Trial 8: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 475.0 ps/div | 2.161 ns | 171.0 mV/div | -10.70 mV |

Trial 8: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 543.0 ps/div | 2.469 ns | 171.0 mV/div | -10.70 mV |

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## 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: Pass

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

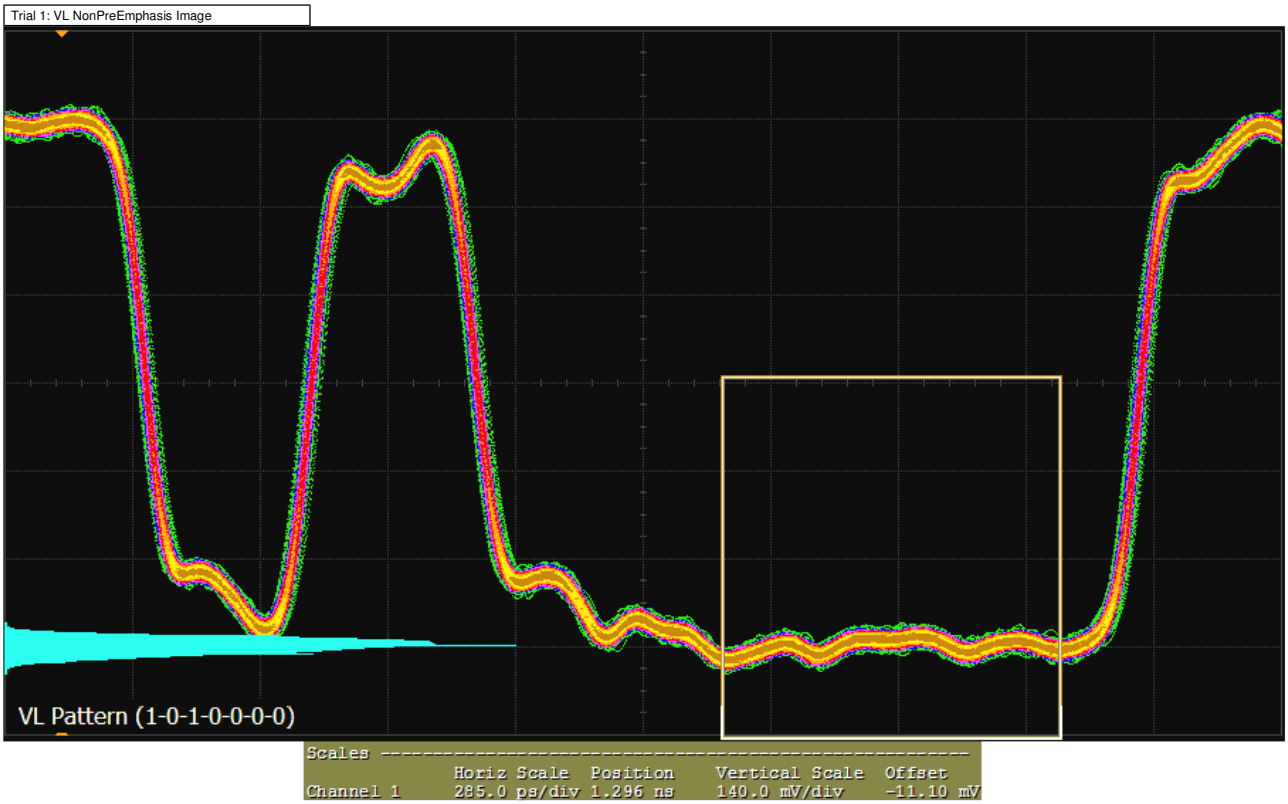
**Pass Limits:** >= 2.000 dB | **PreEmphasis (Pre-emphasis 1) (Worst of 6 Trials)** 5.253 dB | **# Trials Run:** 6 | **Worst Trial:** Trial 1

**Overall Summary + details of 6 worst trials**

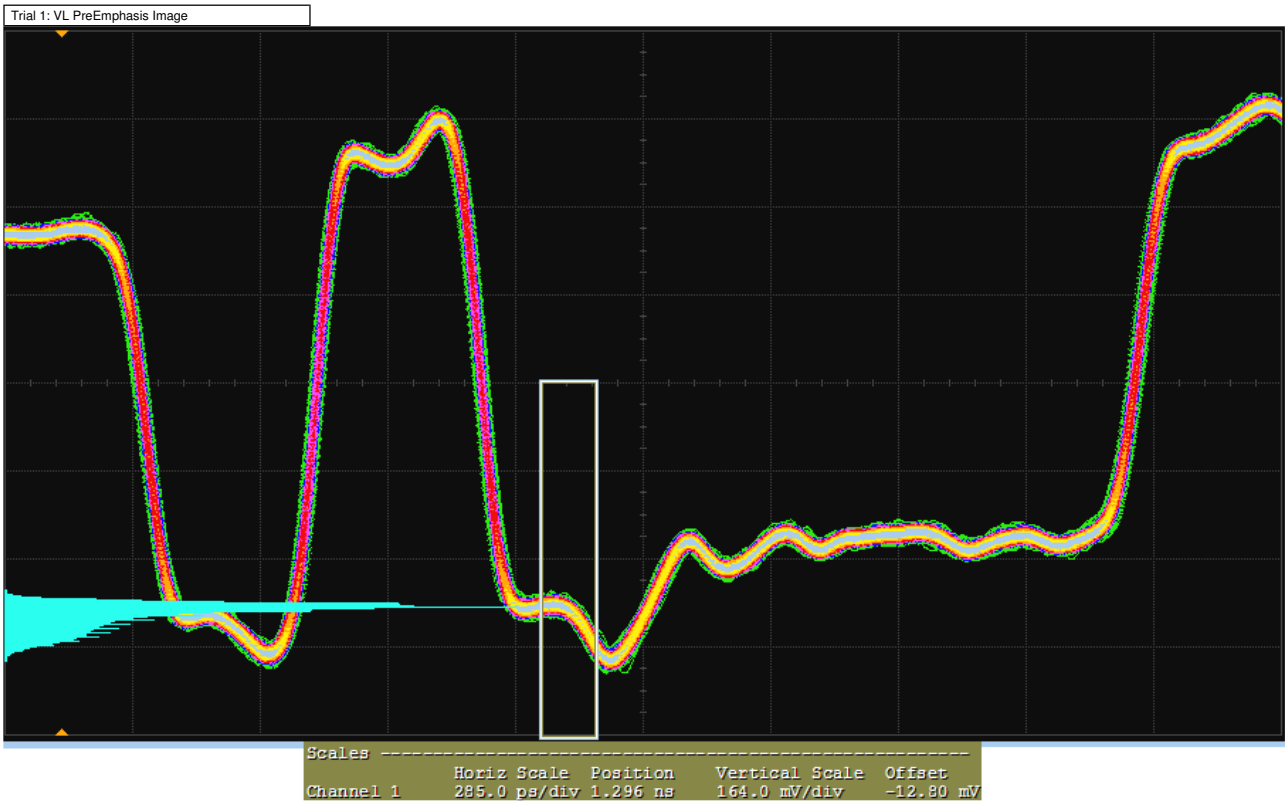
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *5.519 dB* | *175.9 %* | | | | | | | | | | | | | |
| | *StdDev* | *210.9 mdB* | *10.54 %* | | | | | | | | | | | | | |
| | *Range* | *566.2 mdB* | *28.30 %* | | | | | | | | | | | | | |
| | *Min* | *5.253 dB* | *162.7 %* | | | | | | | | | | | | | |
| | *Max* | *5.819 dB* | *191.0 %* | | | | | | | | | | | | | |
| | *Sum* | *33.11 dB* | *1.056 k%* | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 5.253 dB | 162.7% | (See image) | (See image) | (See image) | (See image) | 1000 | 878.642 mV | 596.851 mV | 3.359 dB | 2.7 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 5.528 dB | 176.4% | (See image) | (See image) | (See image) | (See image) | 1000 | 747.753 mV | 499.512 mV | 3.504 dB | 2.7 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | 5.606 dB | 180.3% | (See image) | (See image) | (See image) | (See image) | 1000 | 527.867 mV | 351.082 mV | 3.542 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | 5.303 dB | 165.2% | (See image) | (See image) | (See image) | (See image) | 1000 | 1.016644 V | 591.239 mV | 4.708 dB | 1.62 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 5 | 5.603 dB | 180.2% | (See image) | (See image) | (See image) | (See image) | 1000 | 872.906 mV | 493.028 mV | 4.962 dB | 1.62 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 6 | 5.819 dB | 191.0% | (See image) | (See image) | (See image) | (See image) | 1000 | 619.112 mV | 344.096 mV | 5.102 dB | 1.62 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image



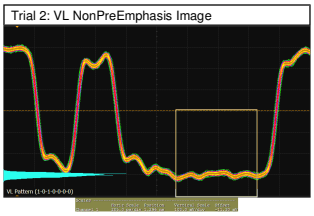
Trial 1: VL PreEmphasis Image



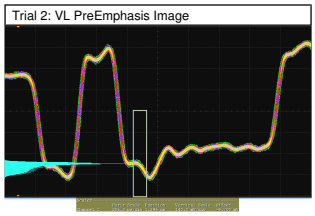

Trial 1: VH PreEmphasis Image


**Trial 2**

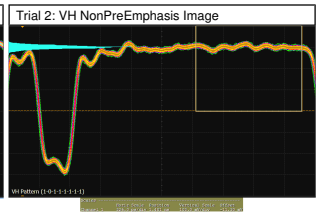
Trial 2: VL NonPreEmphasis Image



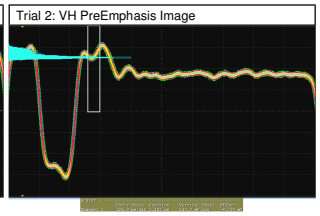
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image

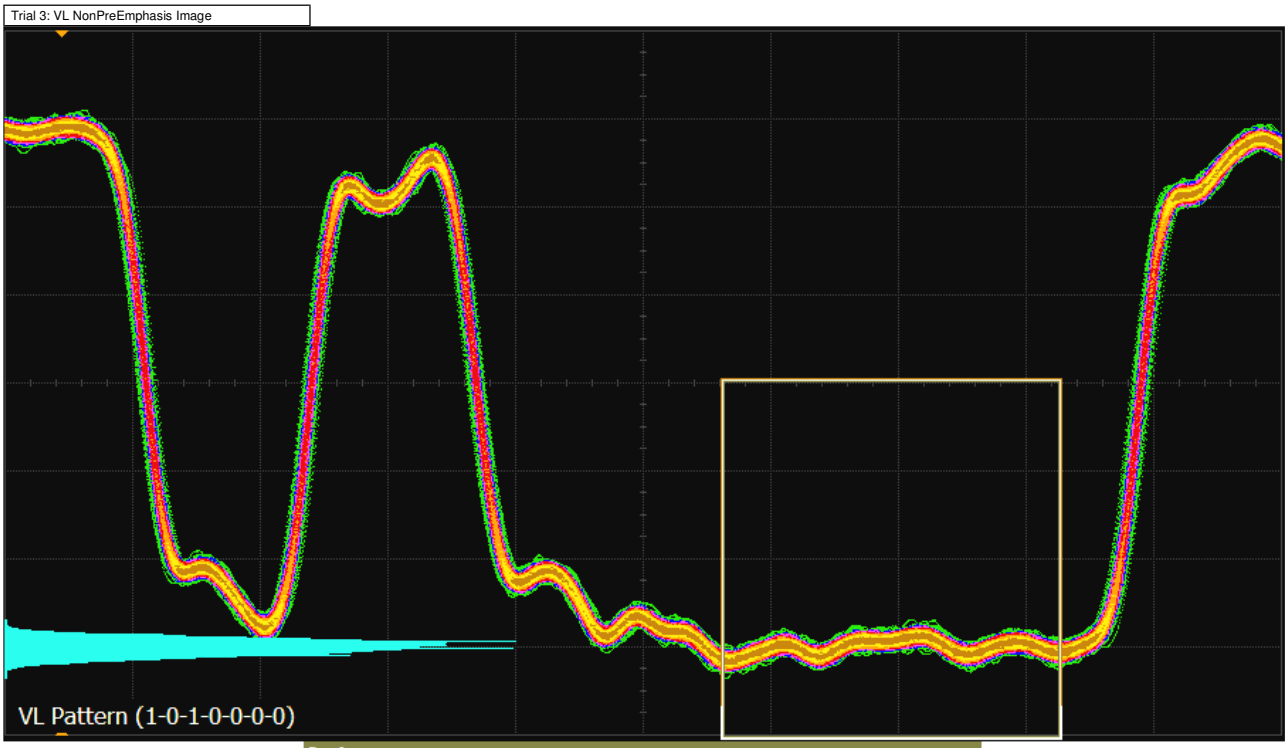


Trial 2: VH PreEmphasis Image



**Trial 3**

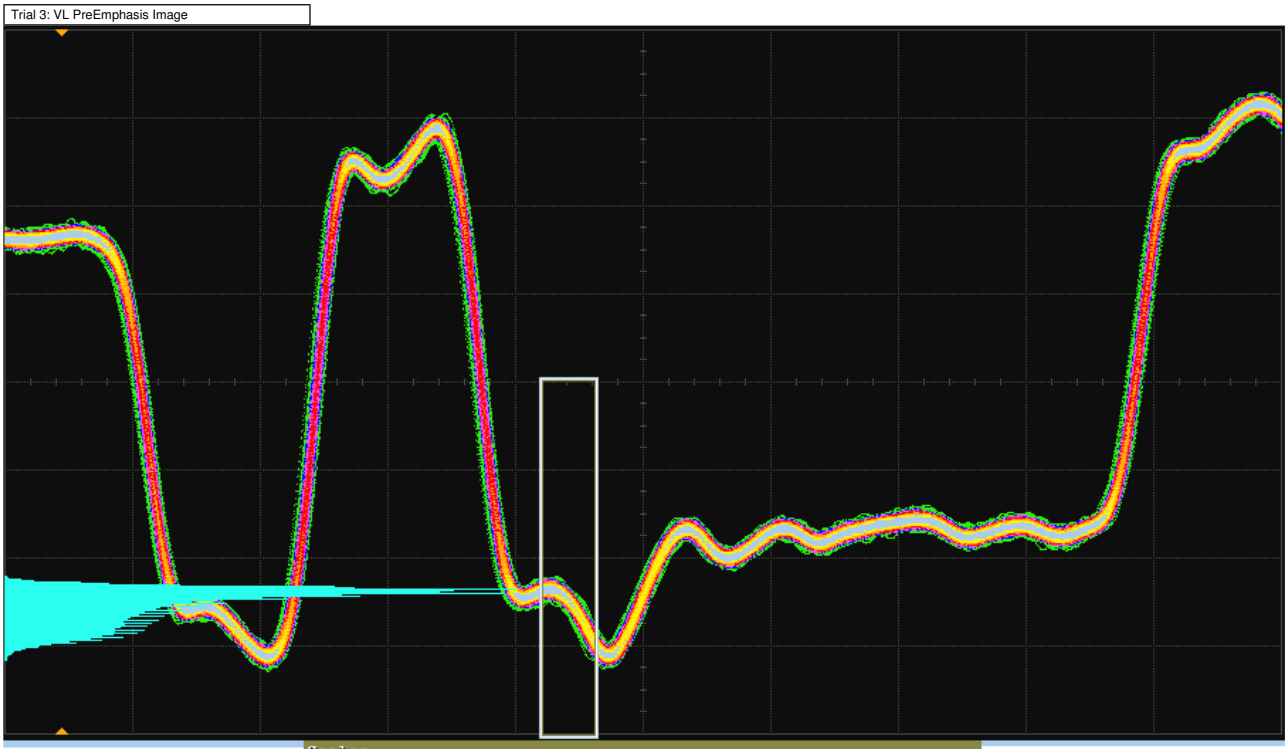
Trial 3: VL NonPreEmphasis Image




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 285.0 ps/div | 1.296 ns | 73.50 mV/div | -9.300 mV |

Trial 3: VL PreEmphasis Image



Scales

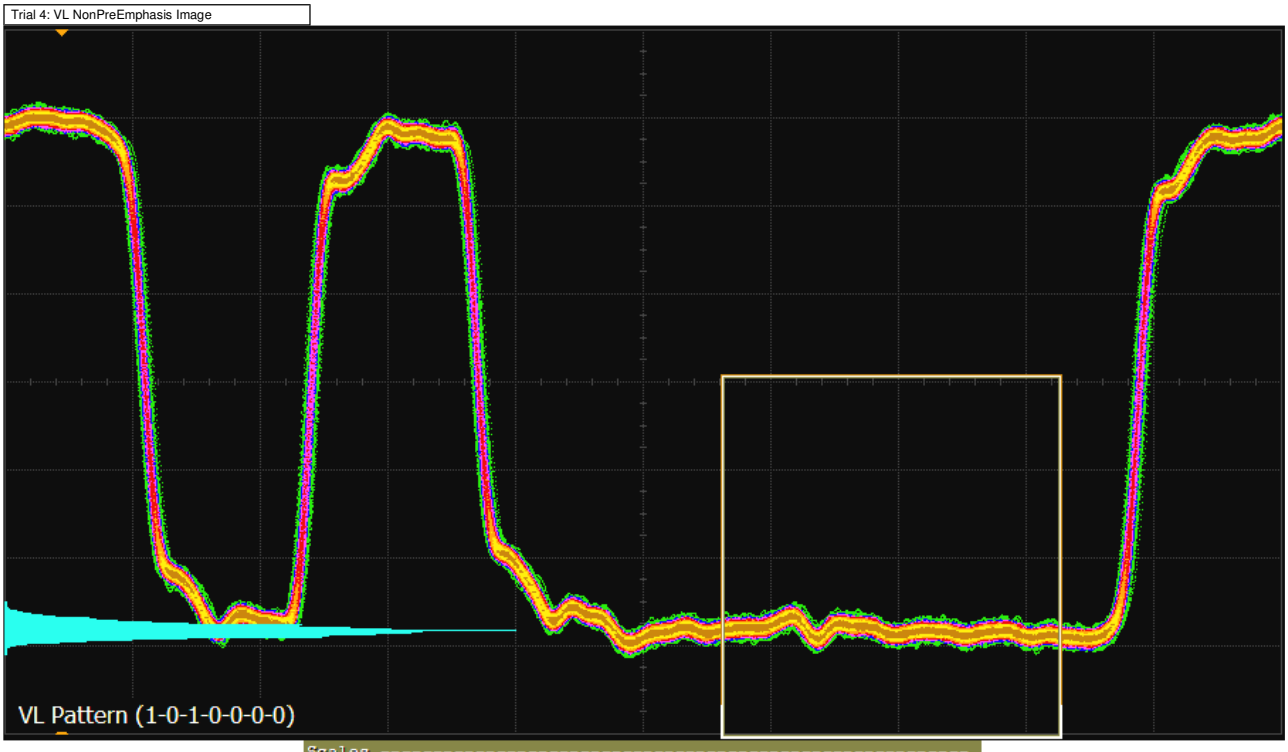
| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 285.0 ps/div | 1.296 ns | 99.70 mV/div | -11.90 mV |

Trial 3: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 326.0 ps/div | 1.482 ns | 73.50 mV/div | -9.300 mV |

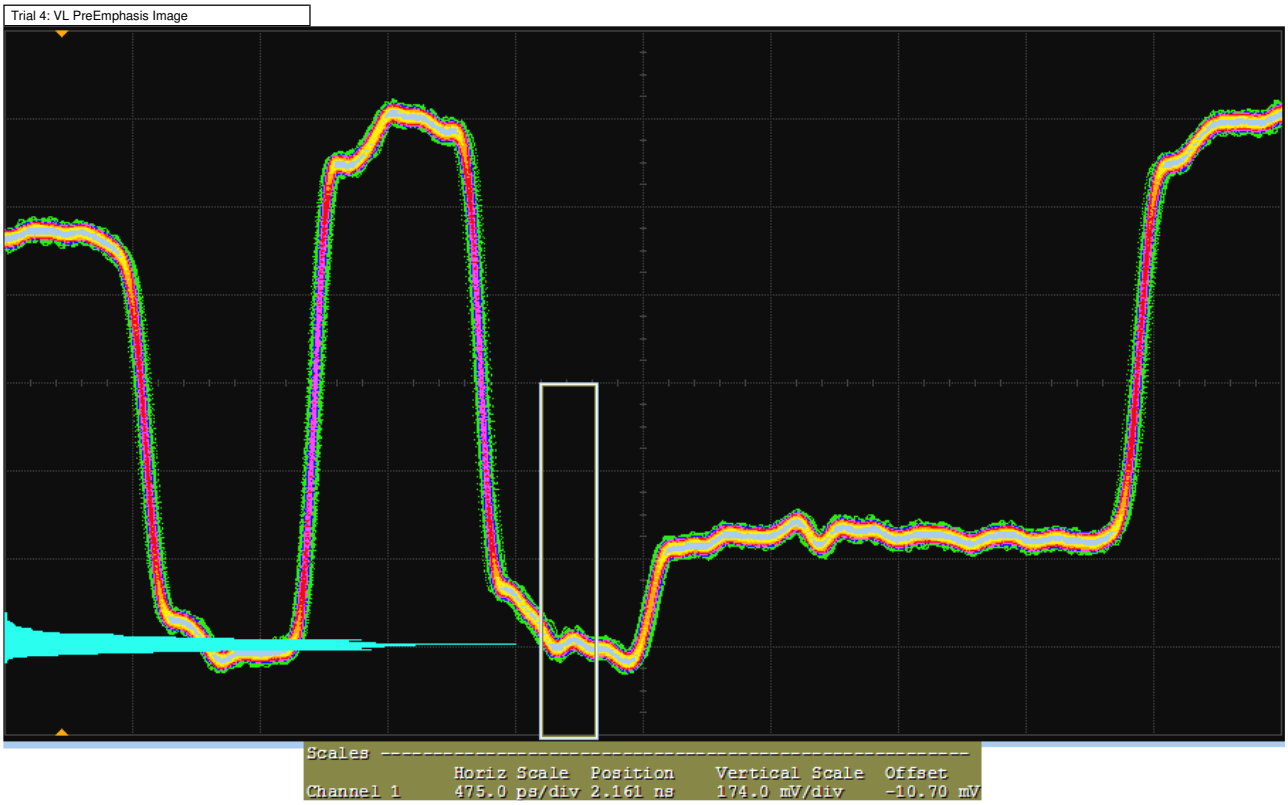
Trial 4

Trial 4: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 475.0 ps/div | 2.161 ns | 143.0 mV/div | -14.80 mV |

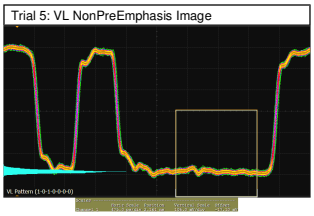
Trial 4: VL PreEmphasis Image



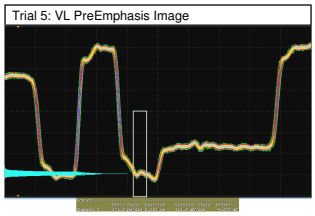

Trial 4: VH PreEmphasis Image


**Trial 5**

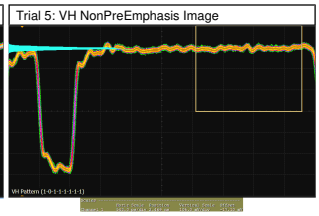
Trial 5: VL NonPreEmphasis Image



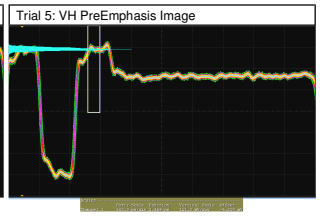
Trial 5: VL PreEmphasis Image



Trial 5: VH NonPreEmphasis Image



Trial 5: VH PreEmphasis Image

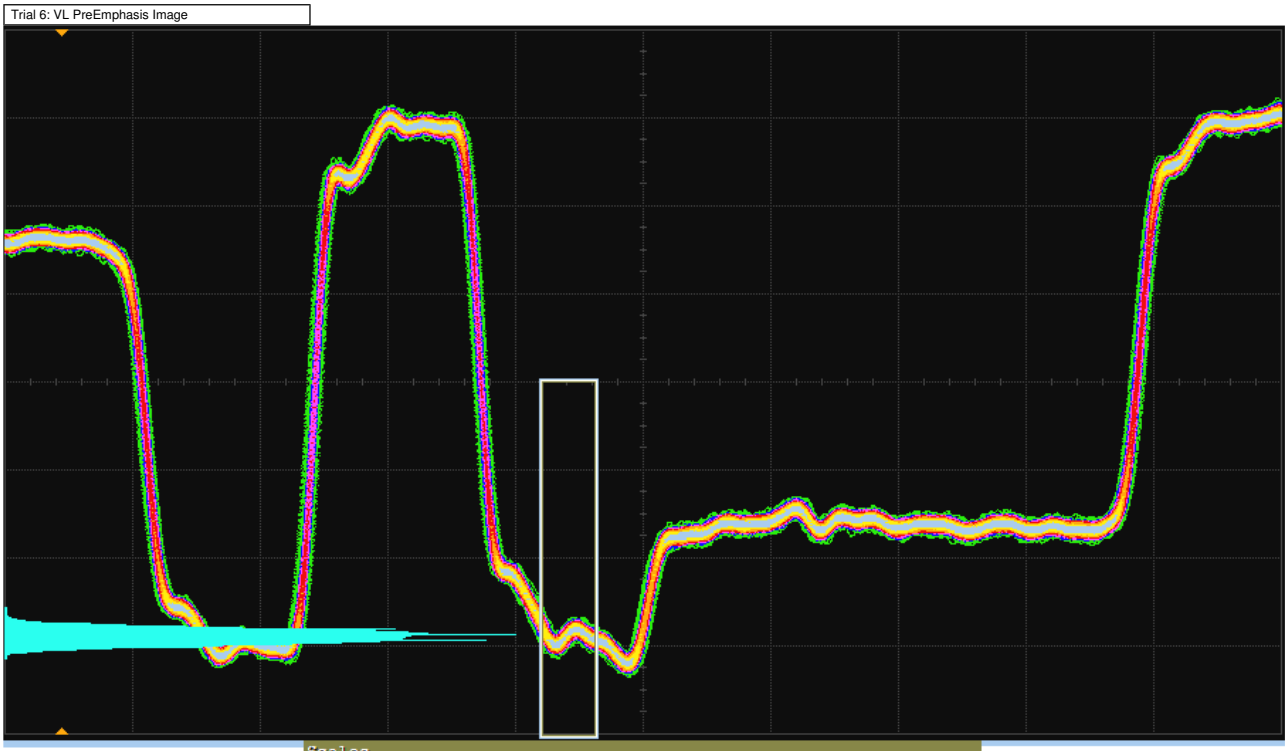


**Trial 6**

Trial 6: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 475.0 ps/div | 2.161 ns | 74.20 mV/div | -13.20 mV |

Trial 6: VL PreEmphasis Image



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 475.0 ps/div | 2.161 ns | 108.0 mV/div | -12.10 mV |

Trial 6: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 543.0 ps/div | 2.469 ns | 74.20 mV/div | -13.20 mV |

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## 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.

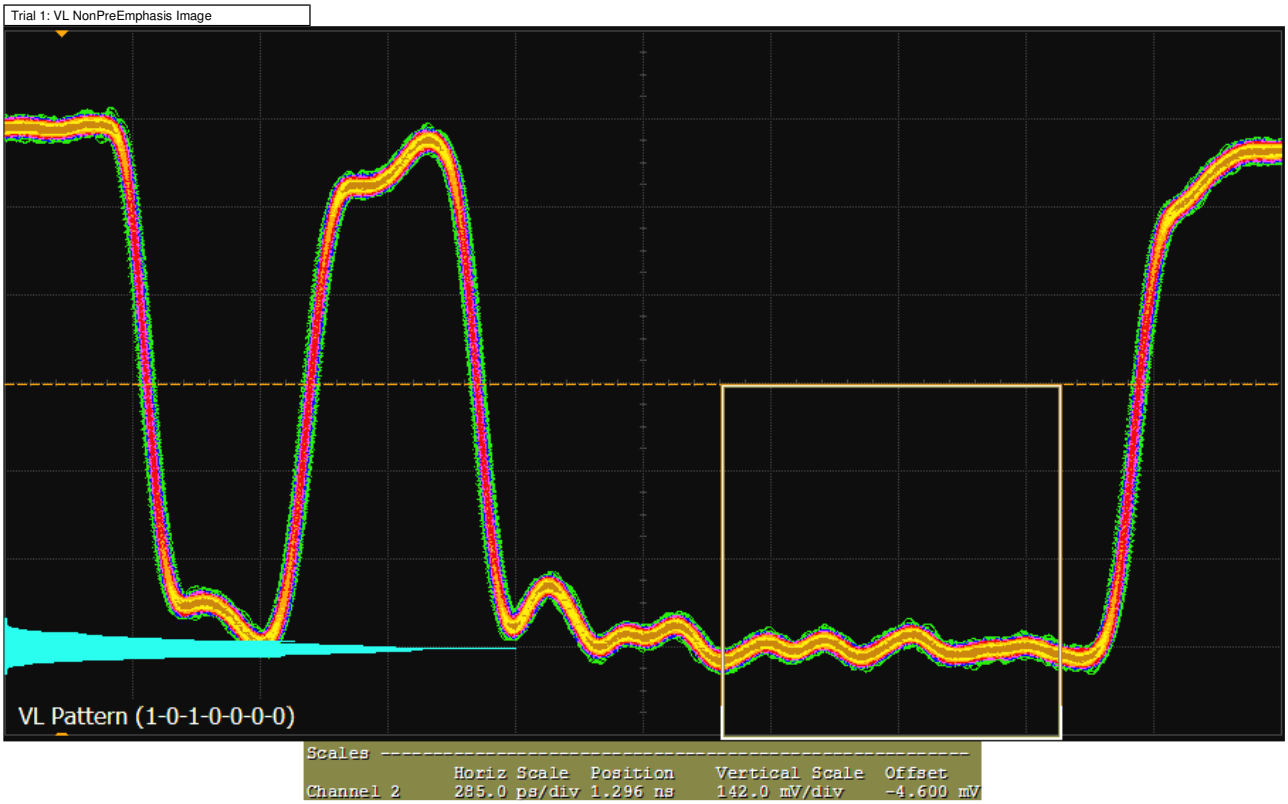
**Pass Limits:** >= 2.000 dB | **PreEmphasis(Pre-emphasis 1) (Worst of 6 Trials)** 15 mdB | **# Trials Run:** 6 | **Worst Trial:** Trial 1

**Overall Summary + details of 6 worst trials**

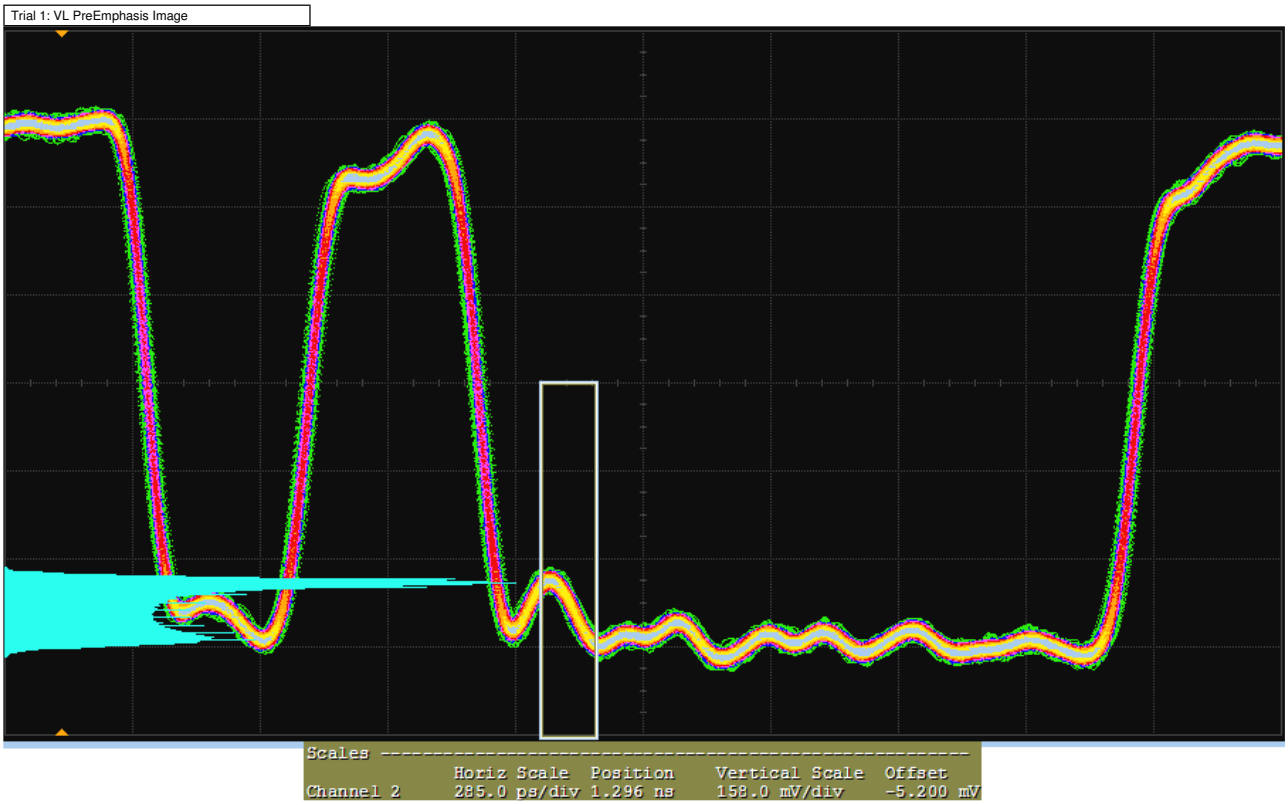
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *44.35 mdB* | *-97.78 %* | | | | | | | | | | | | | |
| | *StdDev* | *17.80 mdB* | *895.4 m%* | | | | | | | | | | | | | |
| | *Range* | *51.73 mdB* | *2.600 %* | | | | | | | | | | | | | |
| | *Min* | *15.16 mdB* | *-99.25 %* | | | | | | | | | | | | | |
| | *Max* | *66.88 mdB* | *-96.65 %* | | | | | | | | | | | | | |
| | *Sum* | *266.1 mdB* | *-586.7 %* | | | | | | | | | | | | | |
| ✗ | Trial 1 (Worst) | 15 mdB | **-99.3%** | (See image) | (See image) | (See image) | (See image) | 1000 | 775.392 mV | 912.128 mV | -1.411 dB | 2.7 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✗ | Trial 2 | 67 mdB | **-96.7%** | (See image) | (See image) | (See image) | (See image) | 1000 | 626.012 mV | 740.331 mV | -1.457 dB | 2.7 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✗ | Trial 3 | 36 mdB | **-98.2%** | (See image) | (See image) | (See image) | (See image) | 1000 | 433.699 mV | 519.236 mV | -1.564 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✗ | Trial 4 | 43 mdB | **-97.9%** | (See image) | (See image) | (See image) | (See image) | 1000 | 853.063 mV | 911.391 mV | -574 mdB | 1.62 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✗ | Trial 5 | 56 mdB | **-97.2%** | (See image) | (See image) | (See image) | (See image) | 1000 | 684.714 mV | 735.223 mV | -618 mdB | 1.62 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✗ | Trial 6 | 49 mdB | **-97.6%** | (See image) | (See image) | (See image) | (See image) | 1000 | 475.384 mV | 515.472 mV | -703 mdB | 1.62 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image



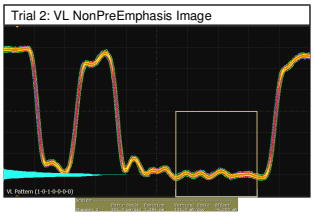
Trial 1: VL PreEmphasis Image



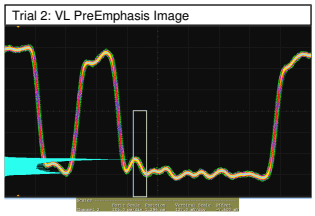

Trial 1: VH PreEmphasis Image


**Trial 2**

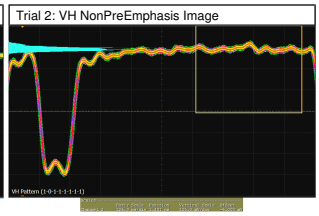
Trial 2: VL NonPreEmphasis Image



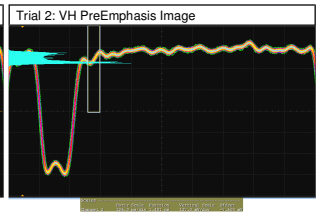
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



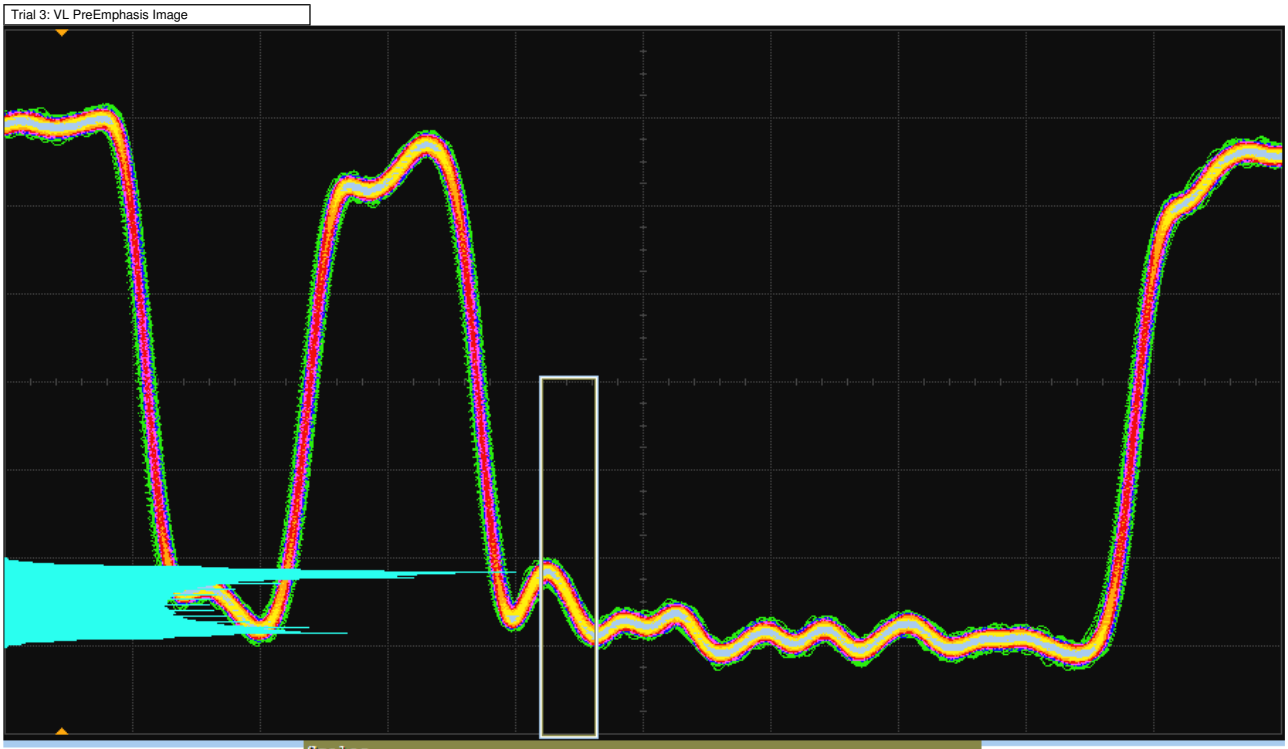
**Trial 3**

Trial 3: VL NonPreEmphasis Image


Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 285.0 ps/div | 1.296 ns | 73.50 mV/div | -8.300 mV |

Trial 3: VL PreEmphasis Image



Scales

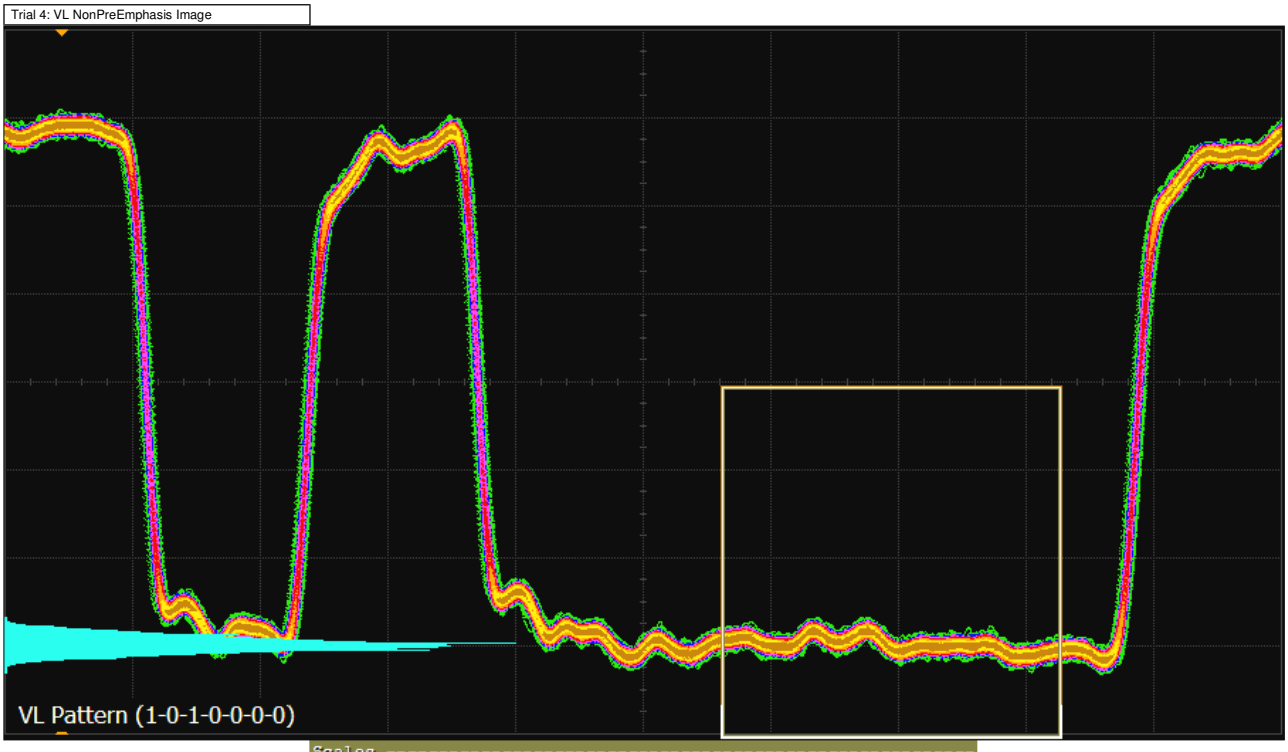
| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 285.0 ps/div | 1.296 ns | 89.20 mV/div | -5.900 mV |

Trial 3: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 326.0 ps/div | 1.481 ns | 73.50 mV/div | -8.300 mV |

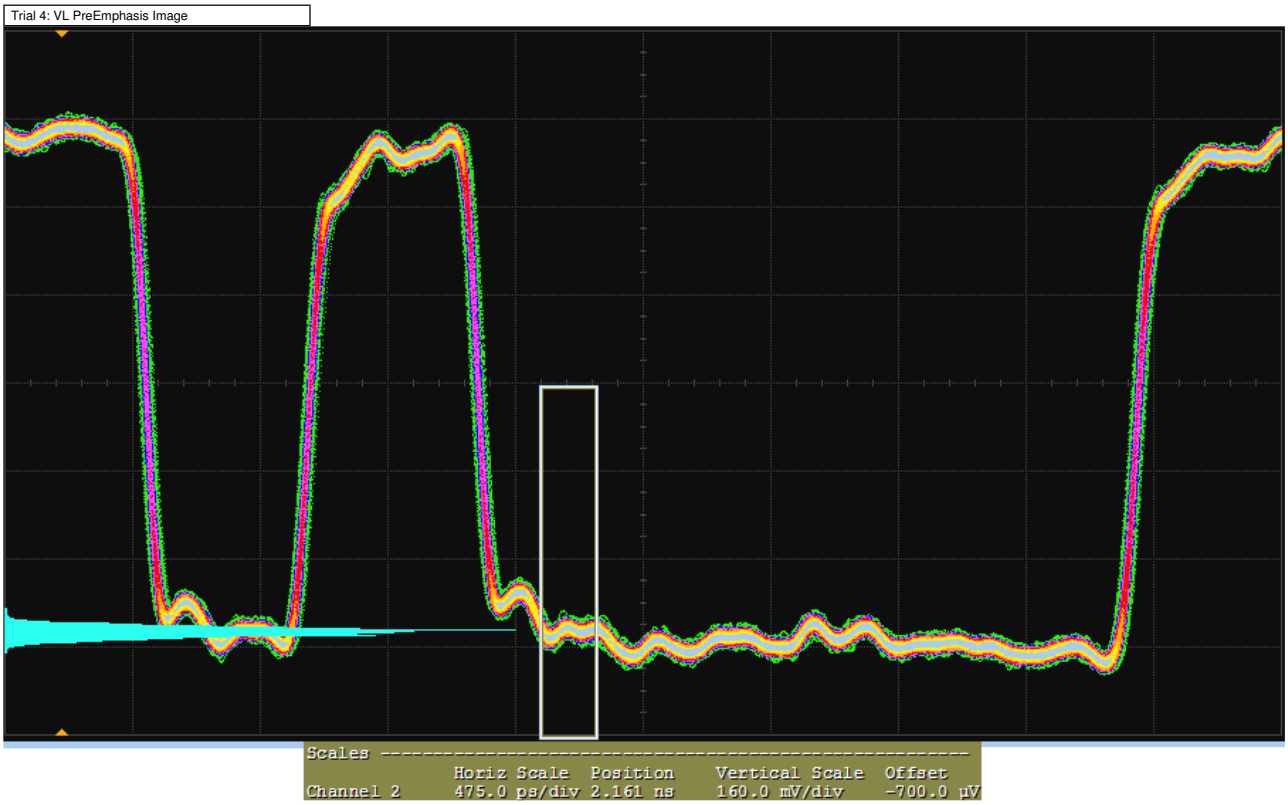
Trial 4

Trial 4: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 475.0 ps/div | 2.161 ns | 143.0 mV/div | 1.000 mV |

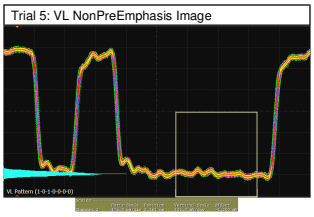
Trial 4: VL PreEmphasis Image



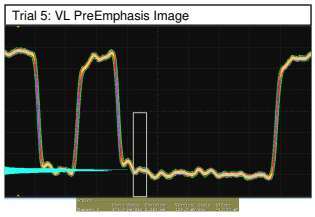

Trial 4: VH PreEmphasis Image


**Trial 5**

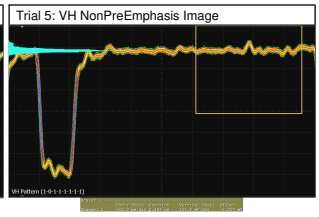
Trial 5: VL NonPreEmphasis Image



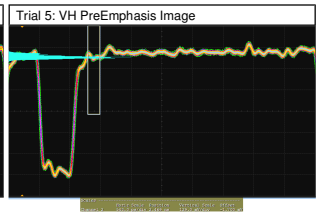
Trial 5: VL PreEmphasis Image



Trial 5: VH NonPreEmphasis Image



Trial 5: VH PreEmphasis Image

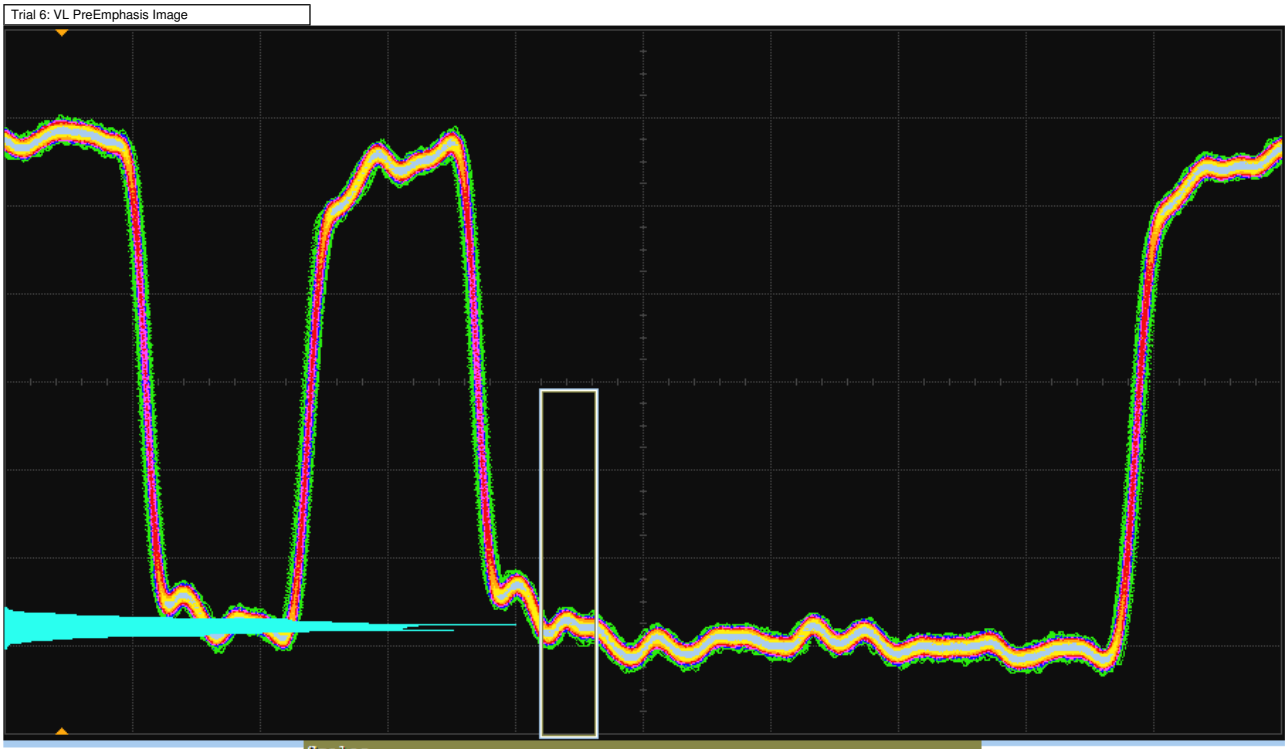


**Trial 6**

Trial 6: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 475.0 ps/div | 2.161 ns | 75.10 mV/div | -4.800 mV |

Trial 6: VL PreEmphasis Image



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 475.0 ps/div | 2.161 ns | 90.40 mV/div | -3.100 mV |

Trial 6: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 543.0 ps/div | 2.469 ns | 75.10 mV/div | -4.800 mV |

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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: Pass

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

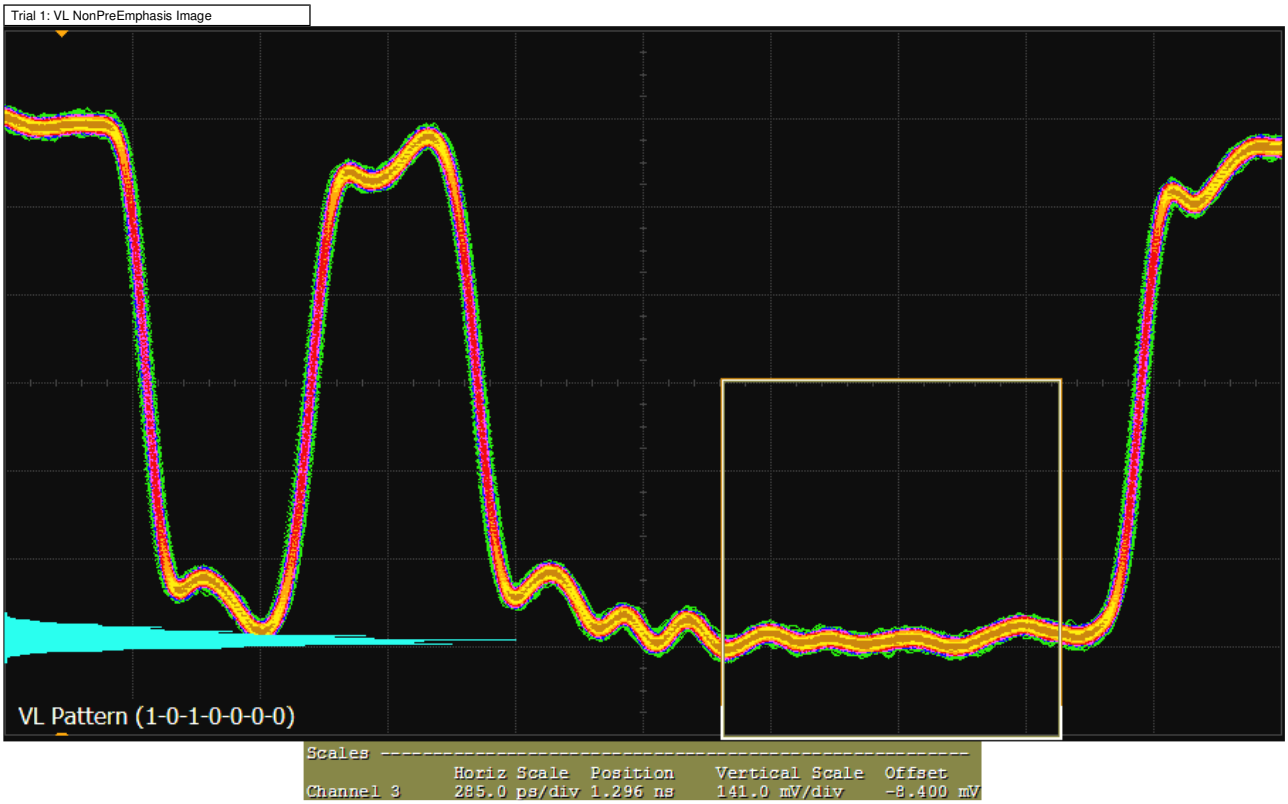
**Pass Limits:** >= 2.000 dB | **PreEmphasis(Pre-emphasis 1) (Worst of 6 Trials)** 3.021 dB | **# Trials Run:** 6 | **Worst Trial:** Trial 1

**Overall Summary + details of 6 worst trials**

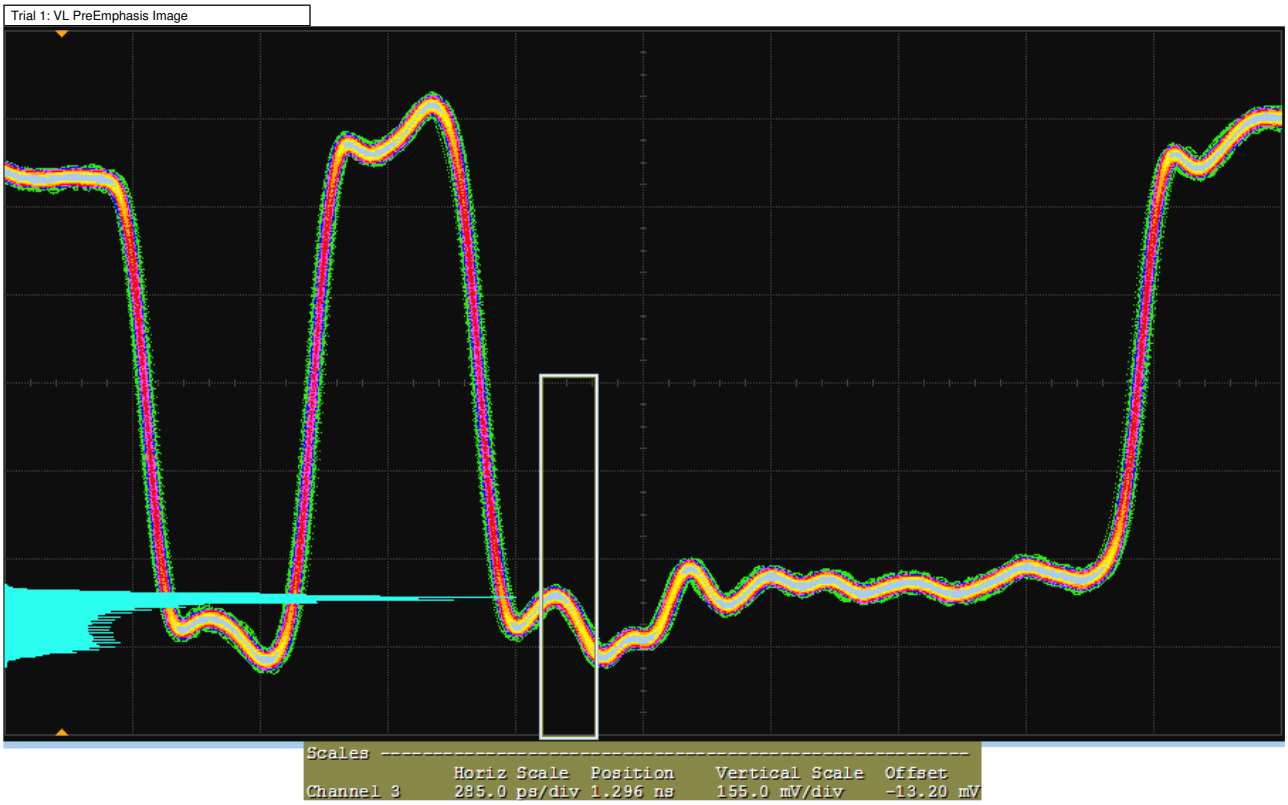
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *3.219 dB* | *60.95 %* | | | | | | | | | | | | | |
| | *StdDev* | *139.3 mdB* | *6.977 %* | | | | | | | | | | | | | |
| | *Range* | *334.5 mdB* | *16.75 %* | | | | | | | | | | | | | |
| | *Min* | *3.021 dB* | *51.05 %* | | | | | | | | | | | | | |
| | *Max* | *3.356 dB* | *67.80 %* | | | | | | | | | | | | | |
| | *Sum* | *19.31 dB* | *365.7 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 3.021 dB | 51.1% | (See image) | (See image) | (See image) | (See image) | 1000 | 871.690 mV | 733.983 mV | 1.494 dB | 2.7 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 3.251 dB | 62.6% | (See image) | (See image) | (See image) | (See image) | 1000 | 727.948 mV | 604.781 mV | 1.610 dB | 2.7 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | 3.332 dB | 66.6% | (See image) | (See image) | (See image) | (See image) | 1000 | 515.858 mV | 429.295 mV | 1.595 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | 3.072 dB | 53.6% | (See image) | (See image) | (See image) | (See image) | 1000 | 941.217 mV | 721.783 mV | 2.306 dB | 1.62 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 5 | 3.356 dB | 67.8% | (See image) | (See image) | (See image) | (See image) | 1000 | 777.791 mV | 583.037 mV | 2.503 dB | 1.62 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 6 | 3.282 dB | 64.1% | (See image) | (See image) | (See image) | (See image) | 1000 | 553.754 mV | 416.393 mV | 2.476 dB | 1.62 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |

**Trial 1**

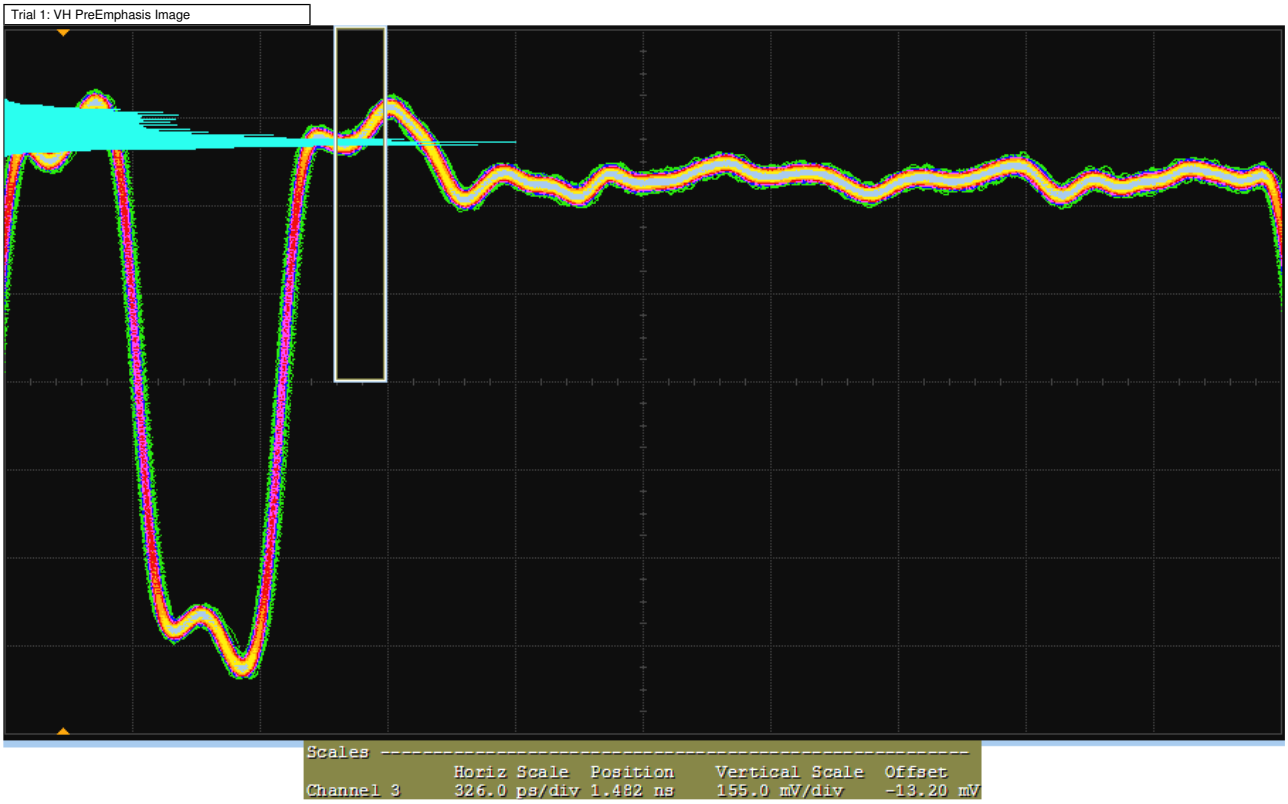
Trial 1: VL NonPreEmphasis Image



Trial 1: VL PreEmphasis Image

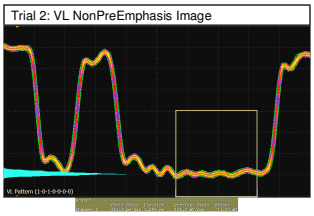



Trial 1: VH PreEmphasis Image

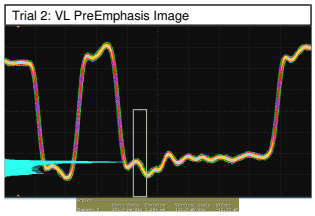



**Trial 2**

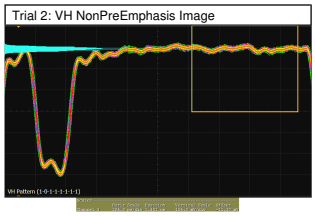
Trial 2: VL NonPreEmphasis Image



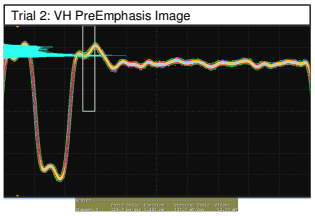
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



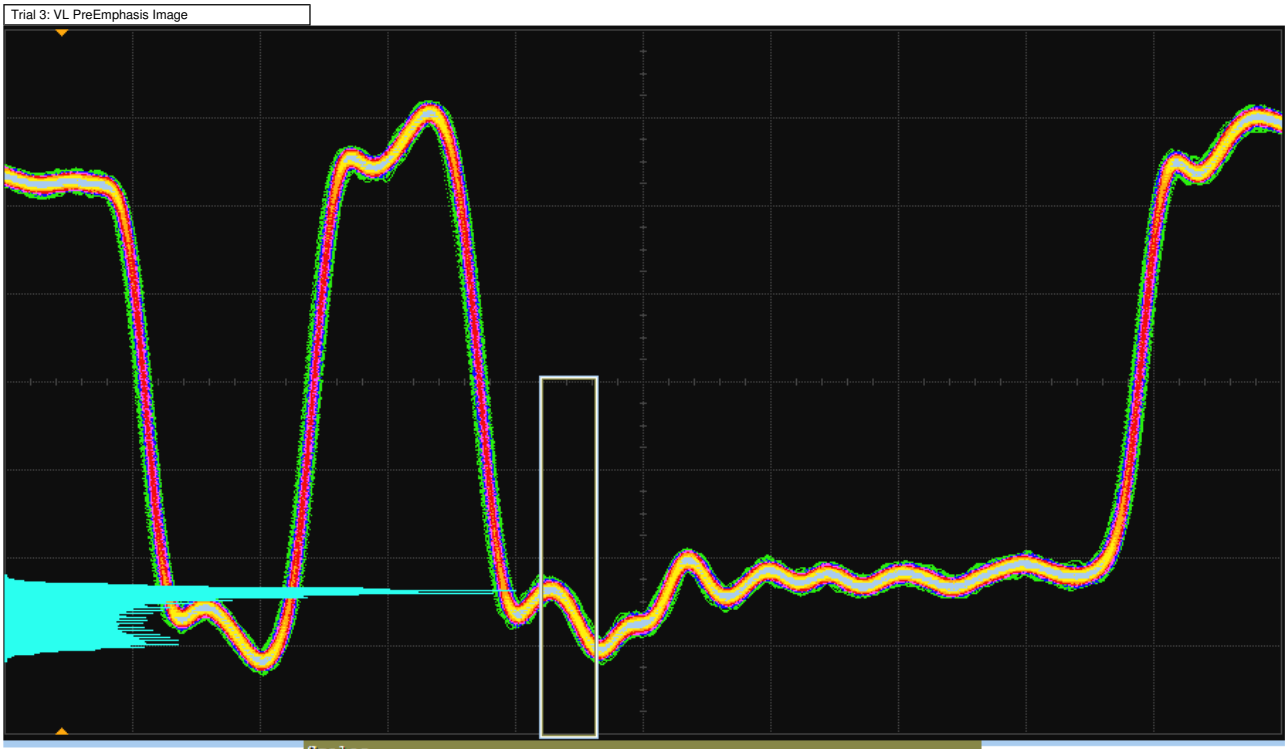
**Trial 3**

Trial 3: VL NonPreEmphasis Image


Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 285.0 ps/div | 1.296 ns | 74.80 mV/div | -9.300 mV |

Trial 3: VL PreEmphasis Image



Scales

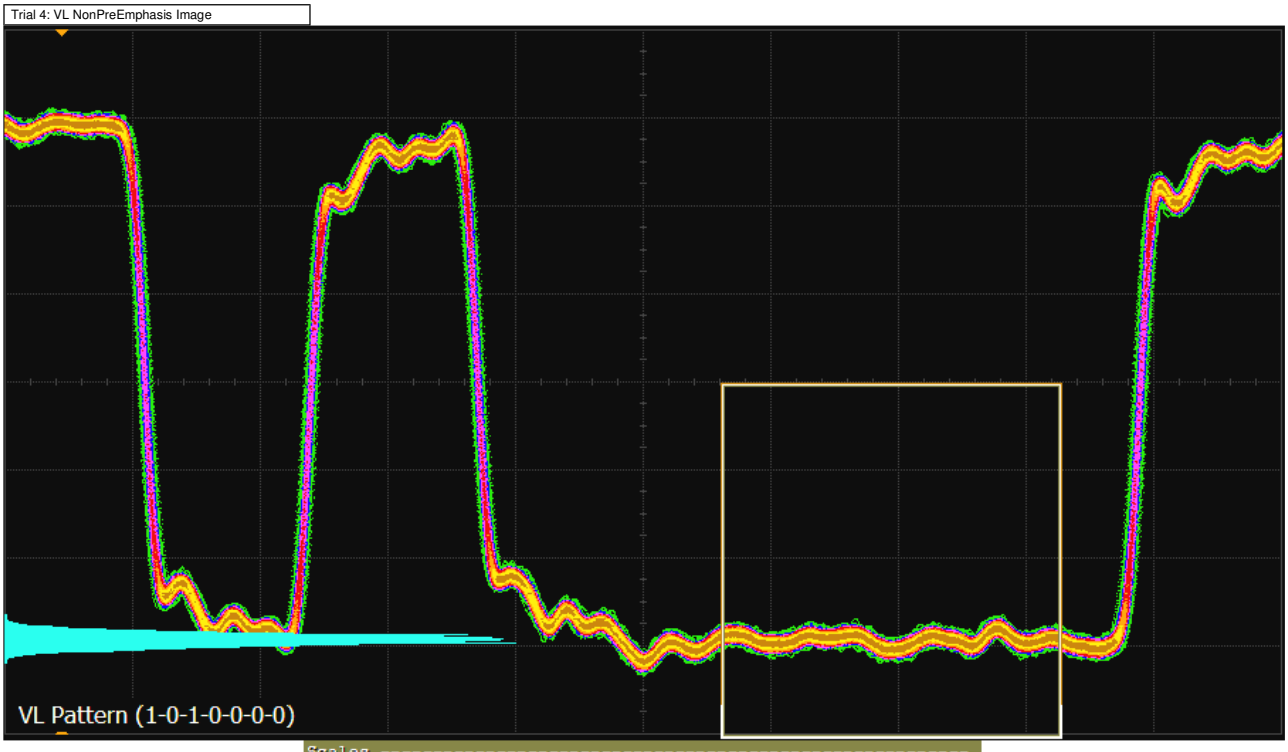
| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 285.0 ps/div | 1.296 ns | 93.60 mV/div | -11.40 mV |

Trial 3: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 326.0 ps/div | 1.482 ns | 74.80 mV/div | -9.300 mV |

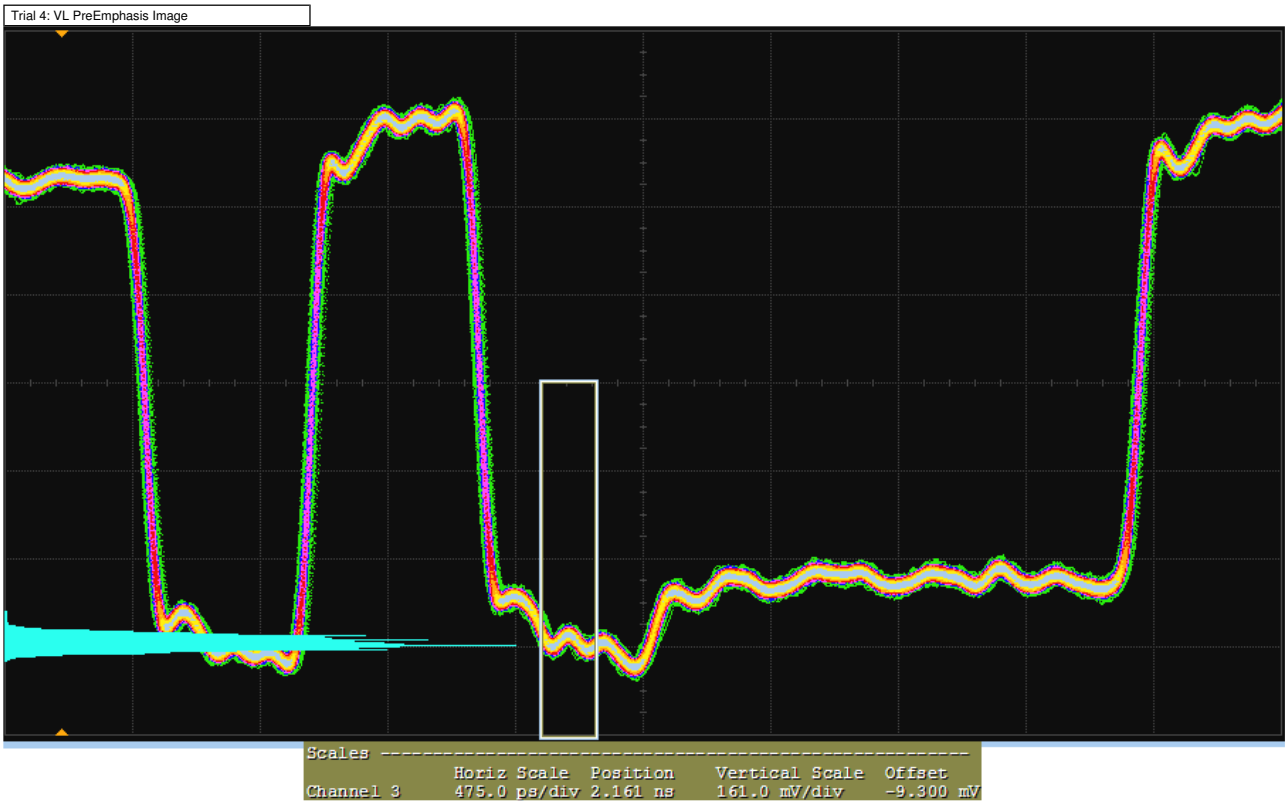
Trial 4

Trial 4: VL NonPreEmphasis Image

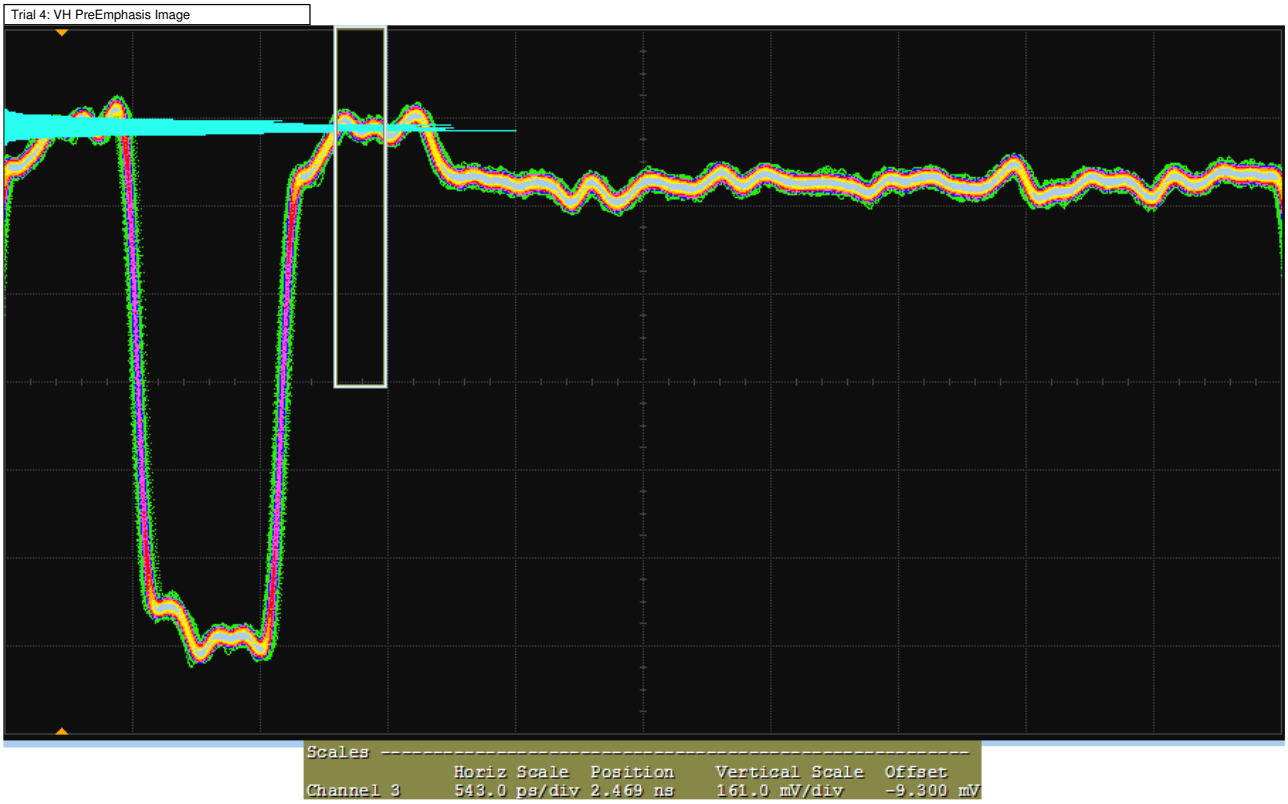



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 475.0 ps/div | 2.161 ns | 145.0 mV/div | -700.0 µV |

Trial 4: VL PreEmphasis Image

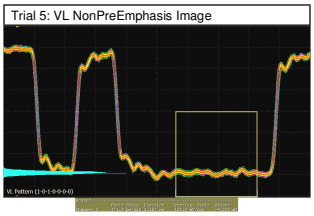



Trial 4: VH PreEmphasis Image

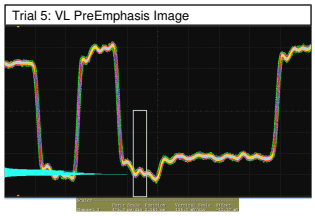



**Trial 5**

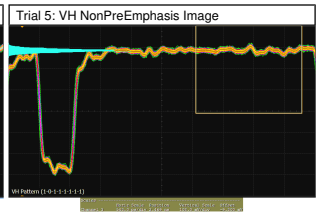
Trial 5: VL NonPreEmphasis Image



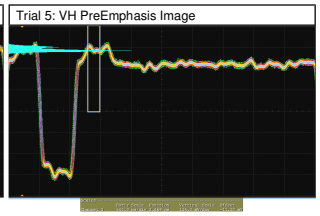
Trial 5: VL PreEmphasis Image



Trial 5: VH NonPreEmphasis Image



Trial 5: VH PreEmphasis Image

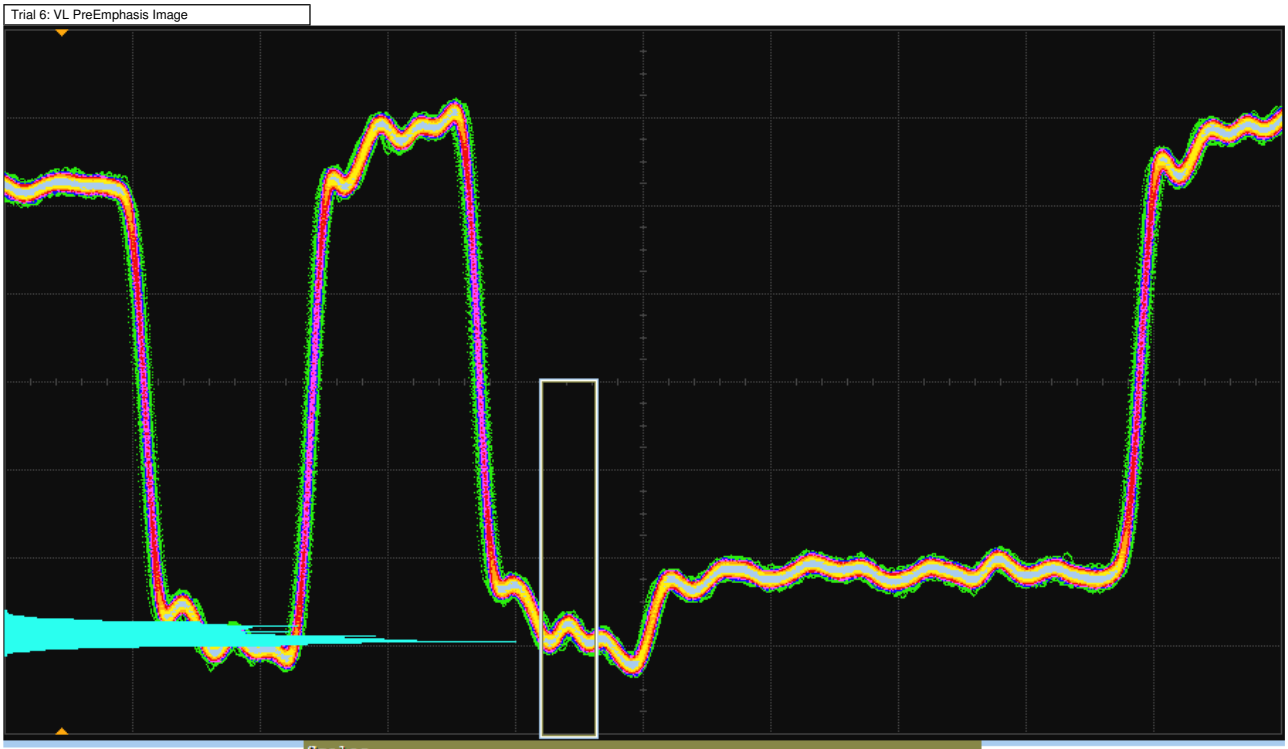


**Trial 6**

Trial 6: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 475.0 ps/div | 2.161 ns | 73.40 mV/div | -11.30 mV |

Trial 6: VL PreEmphasis Image



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 475.0 ps/div | 2.161 ns | 96.50 mV/div | -8.600 mV |

Trial 6: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 543.0 ps/div | 2.469 ns | 73.40 mV/div | -11.30 mV |

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## 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.

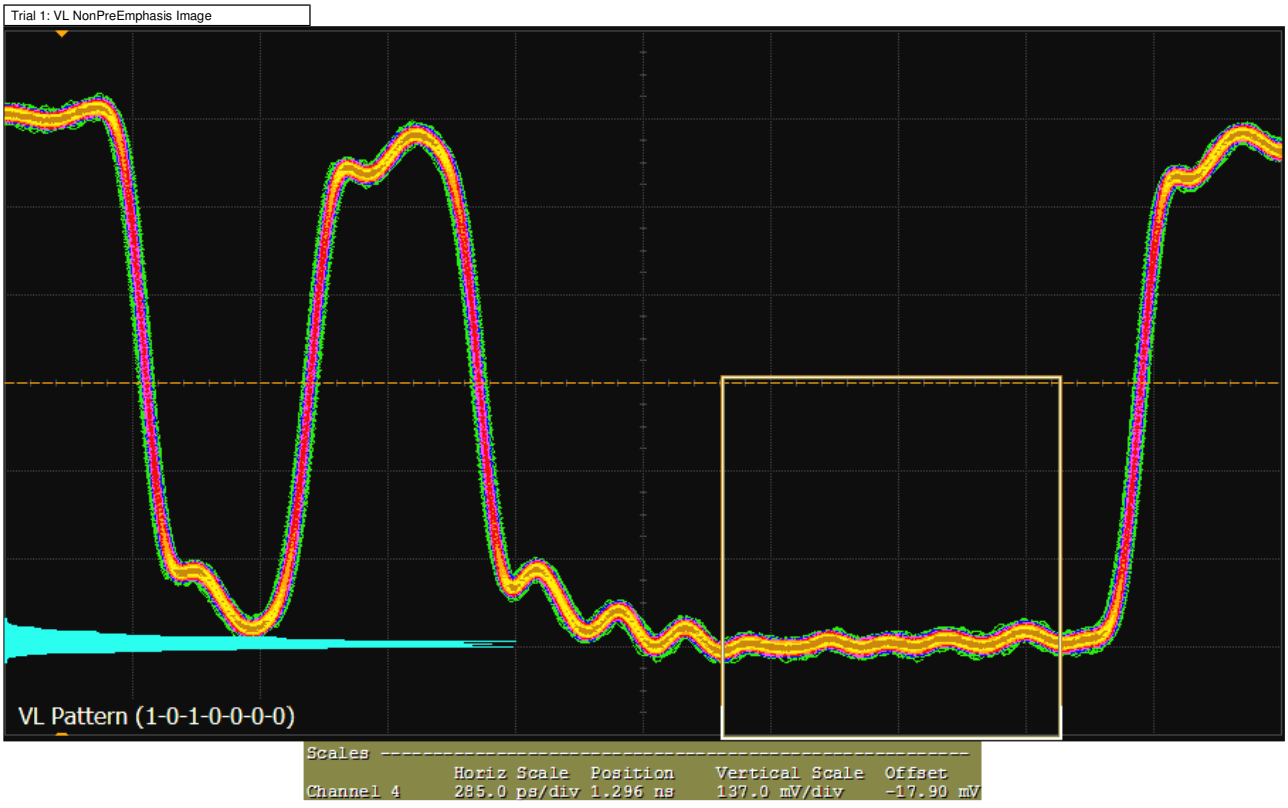
**Pass Limits:** >= 2.000 dB | **PreEmphasis(Pre-emphasis 1) (Worst of 6 Trials)** -600 µdB | **# Trials Run:** 6 | **Worst Trial:** Trial 3

**Overall Summary + details of 6 worst trials**

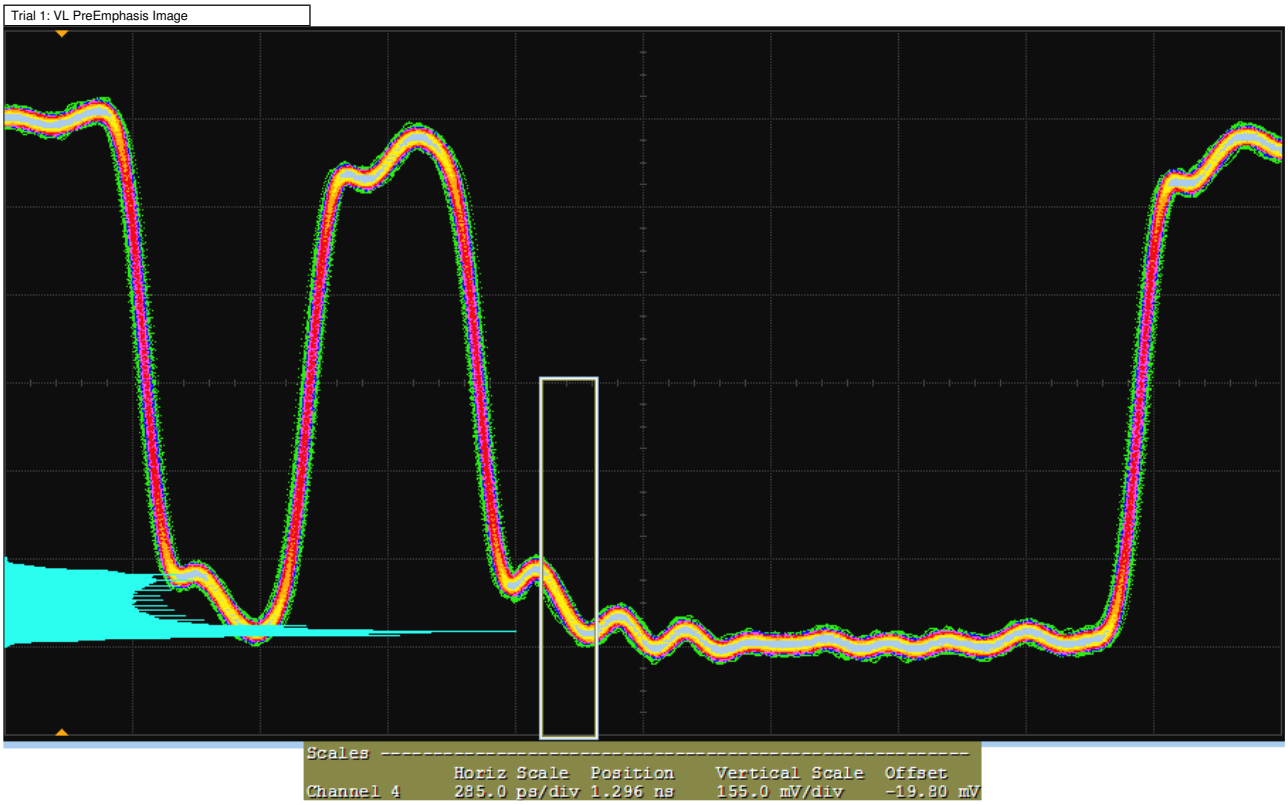
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *32.83 mdB* | *-98.36 %* | | | | | | | | | | | | | |
| | *StdDev* | *27.63 mdB* | *1.385 %* | | | | | | | | | | | | | |
| | *Range* | *64.58 mdB* | *3.250 %* | | | | | | | | | | | | | |
| | *Min* | *-624.2 µdB* | *-100.1 %* | | | | | | | | | | | | | |
| | *Max* | *63.96 mdB* | *-96.80 %* | | | | | | | | | | | | | |
| | *Sum* | *197.0 mdB* | *-590.2 %* | | | | | | | | | | | | | |
| | Trial 1 | 29 mdB | **-98.6%** | (See image) | (See image) | (See image) | (See image) | 1000 | 795.480 mV | 916.042 mV | -1.226 dB | 2.7 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| | Trial 2 | 64 mdB | **-96.8%** | (See image) | (See image) | (See image) | (See image) | 1000 | 628.990 mV | 733.522 mV | -1.335 dB | 2.7 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| | Trial 3 (Worst) | -600 µdB | **-100.1%** | (See image) | (See image) | (See image) | (See image) | 1000 | 435.656 mV | 514.278 mV | -1.441 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| | Trial 4 | 46 mdB | **-97.7%** | (See image) | (See image) | (See image) | (See image) | 1000 | 835.247 mV | 917.565 mV | -816 mdB | 1.62 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| | Trial 5 | 57 mdB | **-97.2%** | (See image) | (See image) | (See image) | (See image) | 1000 | 660.137 mV | 732.199 mV | -900 mdB | 1.62 Gbps | Swing 1 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| | Trial 6 | 2 mdB | **-99.9%** | (See image) | (See image) | (See image) | (See image) | 1000 | 457.570 mV | 512.476 mV | -984 mdB | 1.62 Gbps | Swing 0 | Pre-emphasis 1 | SSC Disabled | Level 0 |

**Trial 1**

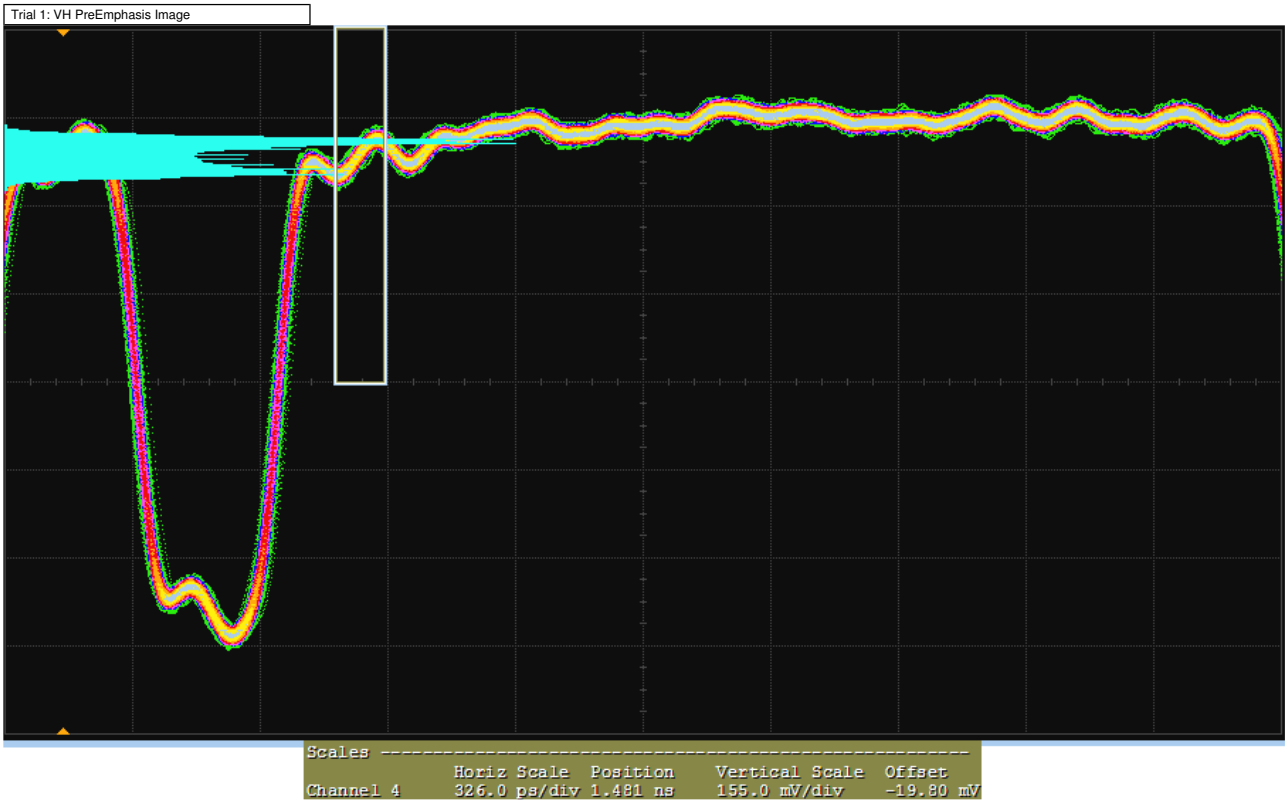
Trial 1: VL NonPreEmphasis Image



Trial 1: VL PreEmphasis Image

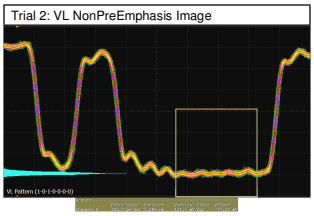



Trial 1: VH PreEmphasis Image

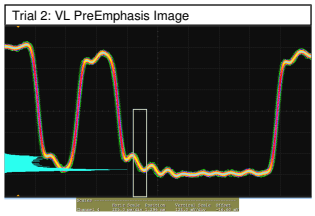



**Trial 2**

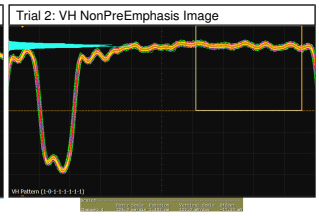
Trial 2: VL NonPreEmphasis Image



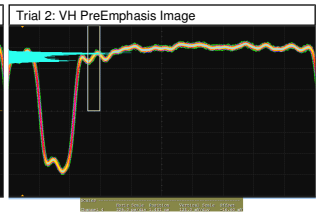
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



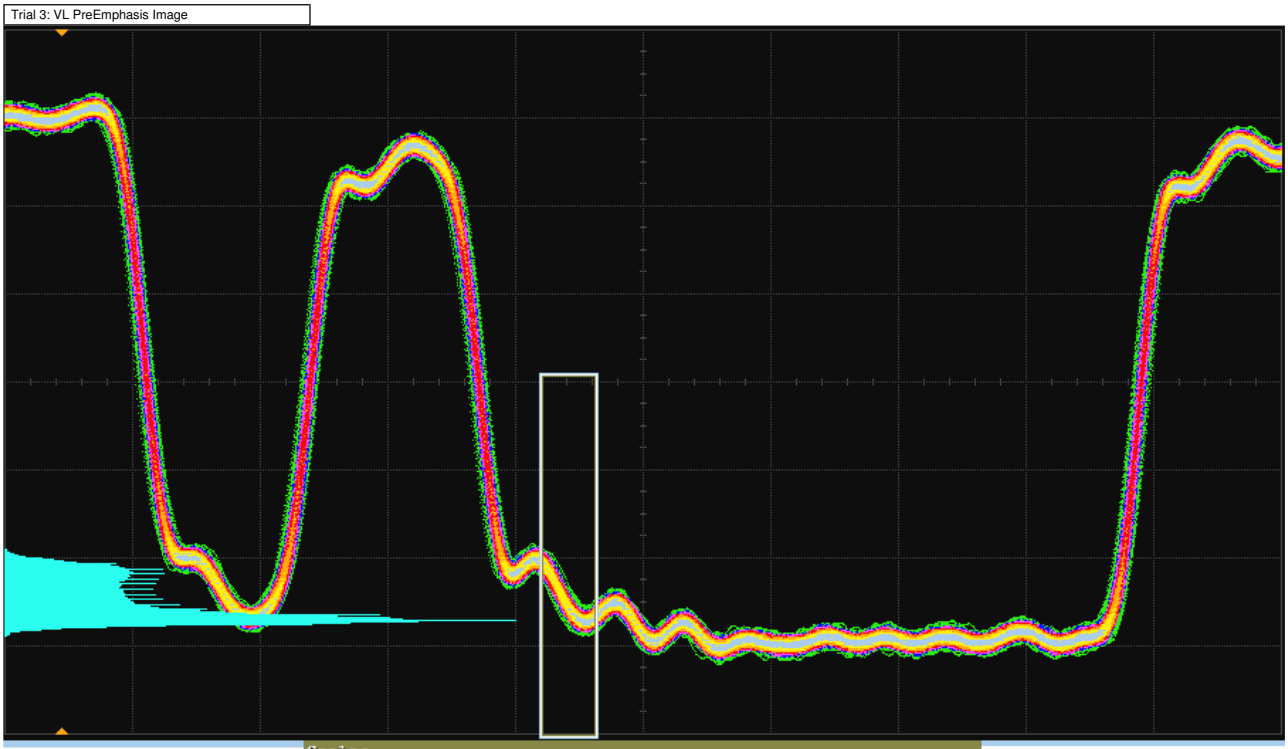
**Trial 3**

Trial 3: VL NonPreEmphasis Image


Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 285.0 ps/div | 1.296 ns | 72.40 mV/div | -14.00 mV |

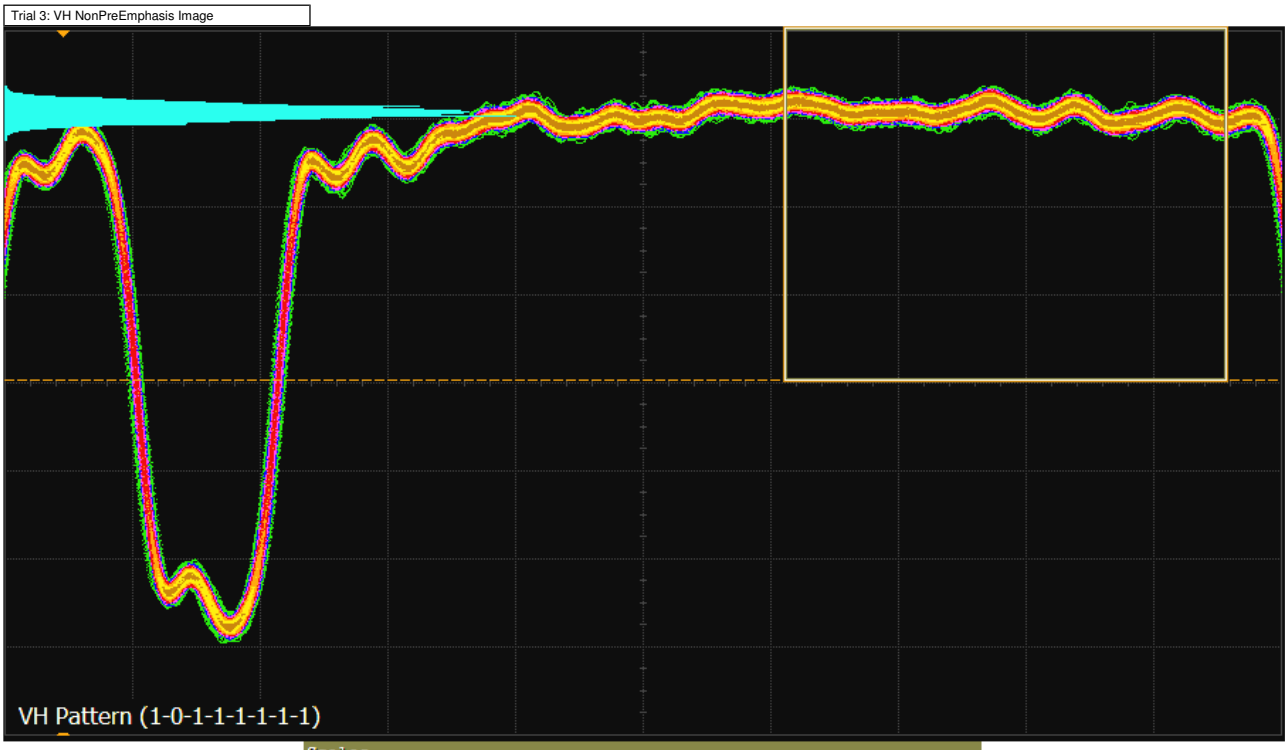
Trial 3: VL PreEmphasis Image



Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 285.0 ps/div | 1.296 ns | 87.00 mV/div | -15.50 mV |

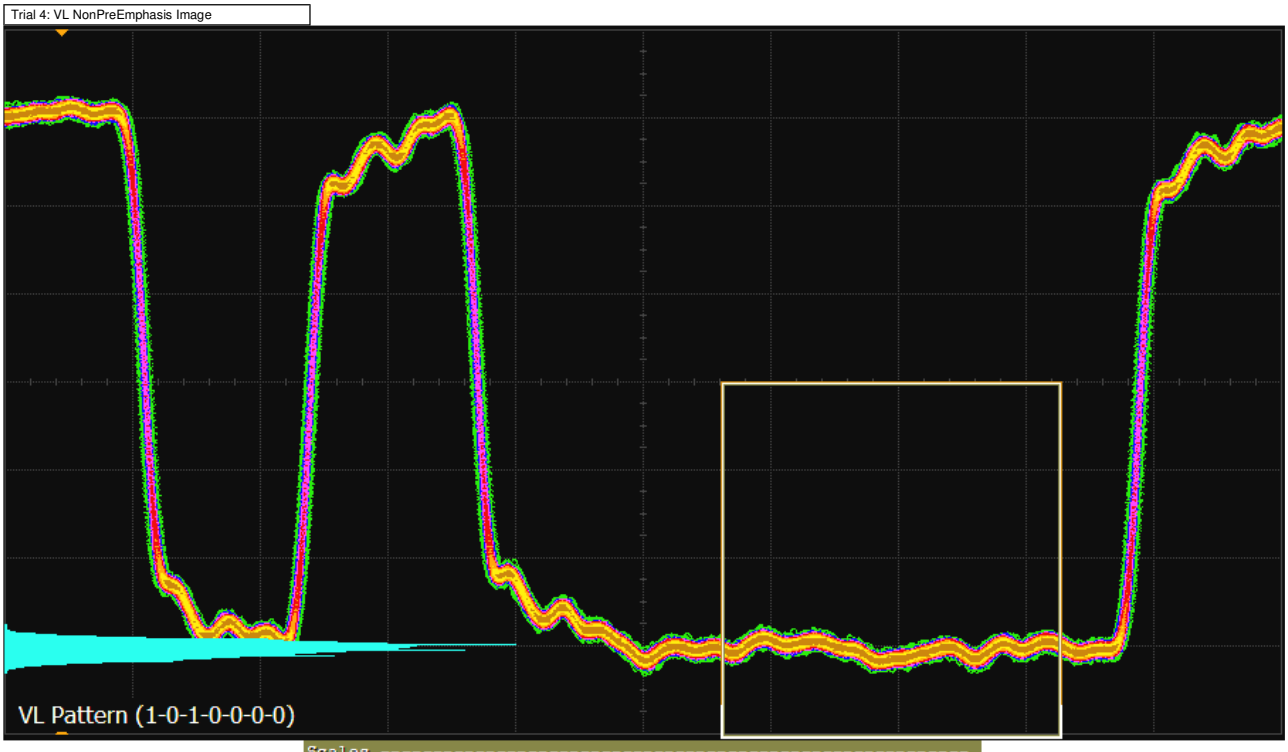
Trial 3: VH NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 326.0 ps/div | 1.481 ns | 72.40 mV/div | -14.00 mV |

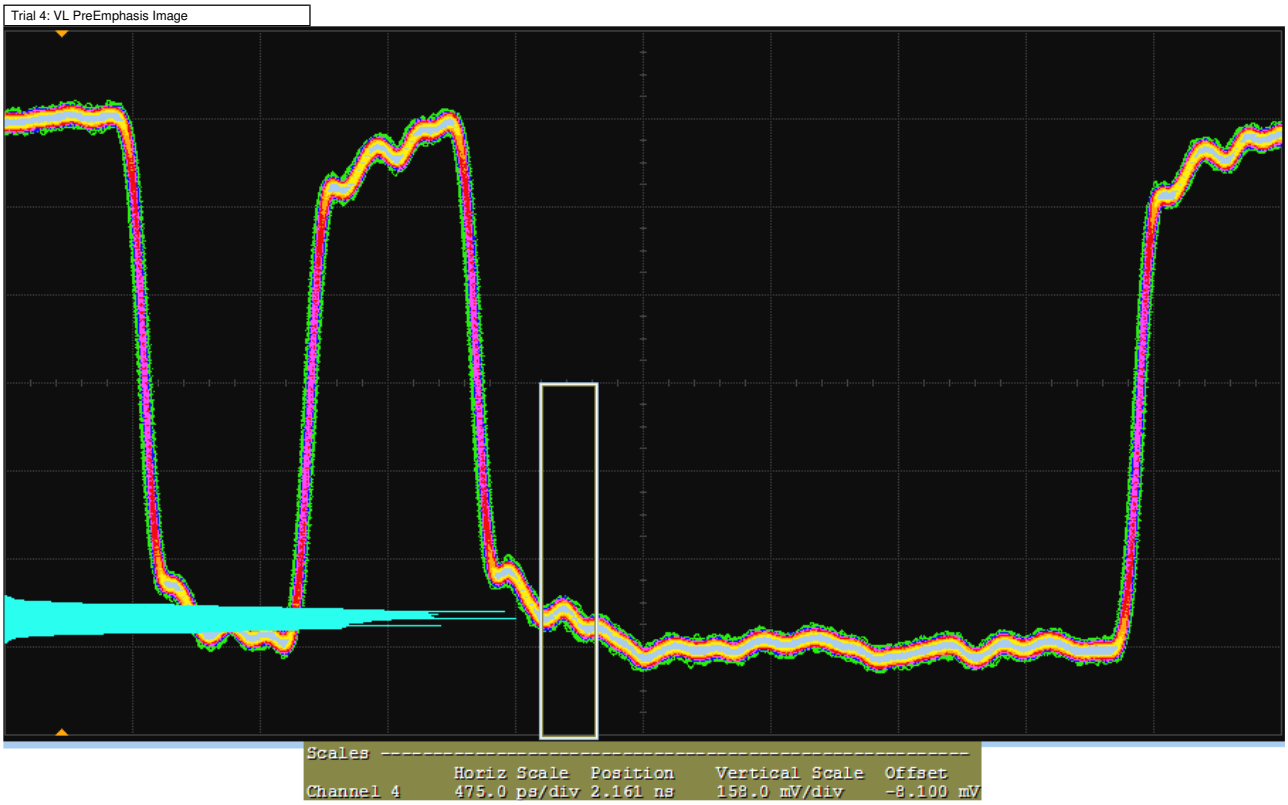
Trial 4

Trial 4: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 475.0 ps/div | 2.161 ns | 137.0 mV/div | -10.60 mV |

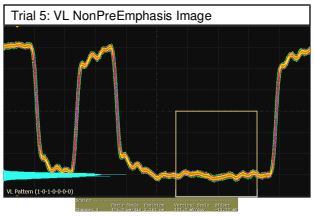
Trial 4: VL PreEmphasis Image



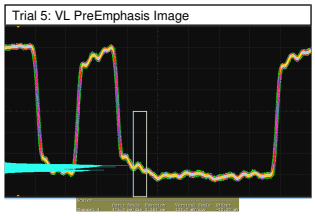

Trial 4: VH PreEmphasis Image


**Trial 5**

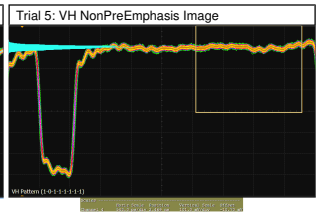
Trial 5: VL NonPreEmphasis Image



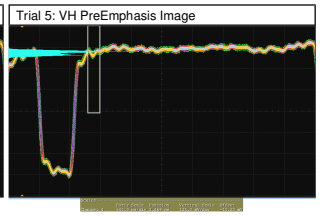
Trial 5: VL PreEmphasis Image



Trial 5: VH NonPreEmphasis Image



Trial 5: VH PreEmphasis Image



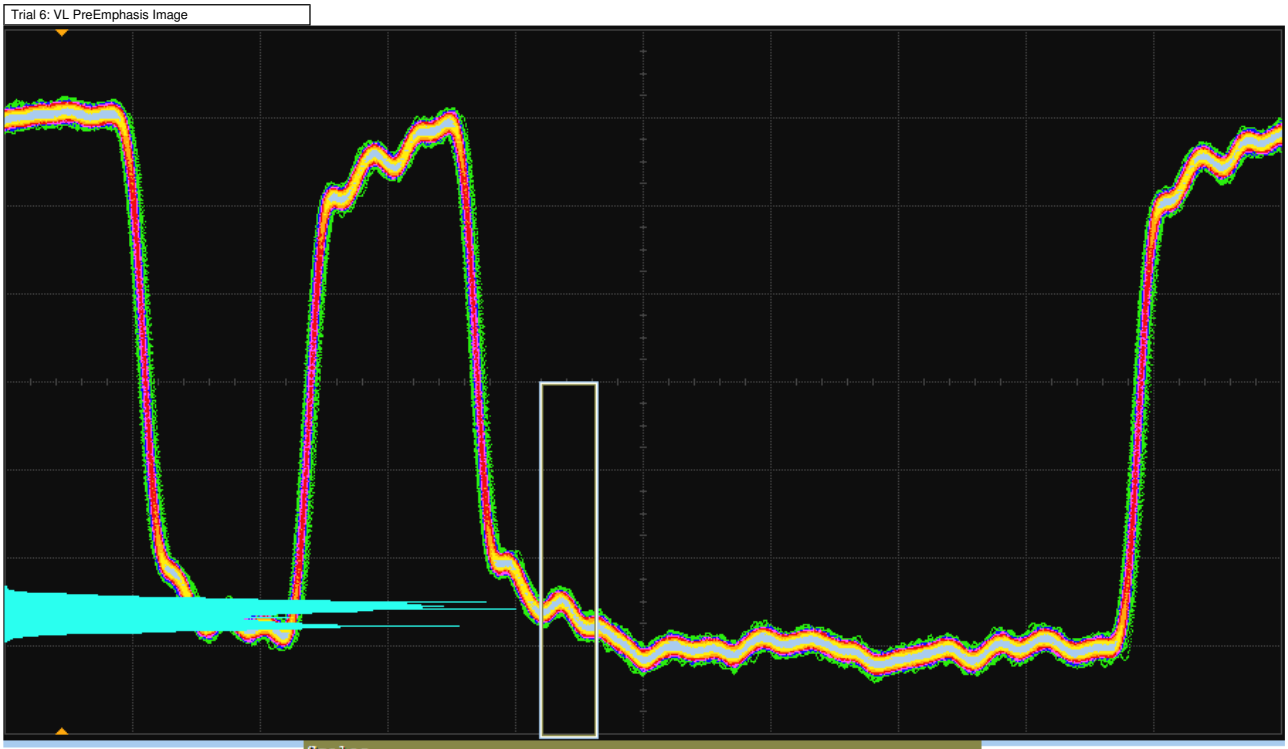
**Trial 6**

Trial 6: VL NonPreEmphasis Image


Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 475.0 ps/div | 2.161 ns | 71.70 mV/div | -11.90 mV |

Trial 6: VL PreEmphasis Image



Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 475.0 ps/div | 2.161 ns | 88.00 mV/div | -11.90 mV |

Trial 6: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 543.0 ps/div | 2.469 ns | 71.70 mV/div | -11.90 mV |

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## Lane 0 - Non-Transition Voltage Range Measurement (Swing 2)

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

Test Summary: Pass

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

**Pass Limits:** >= 708 m | **Non-Transition Voltage Range (Worst of 2 Trials)** 726 m | **# Trials Run:** 2 | **Worst Trial:** Trial 2

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | VSwing Non-Transition Bit(Pre-emphasis 2) (V) | VSwing Non-Transition Bit(Pre-emphasis 3) (V) | VSwing Non-Transition Bit(Pre-emphasis 0) | VSwing Non-Transition Bit(Pre-emphasis 1) | VSwing Non-Transition Bit (Max) | VSwing Non-Transition Bit (Min) | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *727.1 m* | *2.684 %* | *NaN V* | *NaN V* | | | | | | | | | |
| | *StdDev* | *1.304 m* | *199.7 m%* | *NaN V* | *NaN V* | | | | | | | | | |
| | *Range* | *1.844 m* | *282.5 m%* | *-Infinity V* | *-Infinity V* | | | | | | | | | |
| | *Min* | *726.2 m* | *2.542 %* | *Infinity V* | *Infinity V* | | | | | | | | | |
| | *Max* | *728.0 m* | *2.825 %* | *-Infinity V* | *-Infinity V* | | | | | | | | | |
| | *Sum* | *1.454* | *5.367 %* | *0.000 V* | *0.000 V* | | | | | | | | | |
| ✓ | Trial 1 | 728 m | 2.8% | (no value) | (no value) | 819.850 mV | 596.851 mV | 596.851 mV | 596.851 mV | 2.7 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 2 (Worst) | 726 m | 2.5% | (no value) | (no value) | 814.202 mV | 591.239 mV | 591.239 mV | 591.239 mV | 1.62 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |

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## Lane 1 - Non-Transition Voltage Range Measurement (Swing 2)

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

Test Summary: Pass

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

**Pass Limits:** >= 708 m | **Non-Transition Voltage Range (Worst of 2 Trials)** 1.113 | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | VSwing Non-Transition Bit(Pre-emphasis 2) (V) | VSwing Non-Transition Bit(Pre-emphasis 3) (V) | VSwing Non-Transition Bit(Pre-emphasis 0) | VSwing Non-Transition Bit(Pre-emphasis 1) | VSwing Non-Transition Bit (Max) | VSwing Non-Transition Bit (Min) | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *1.116* | *57.63 %* | *NaN V* | *NaN V* | | | | | | | | | |
| | *StdDev* | *4.379 m* | *599.2 m%* | *NaN V* | *NaN V* | | | | | | | | | |
| | *Range* | *6.193 m* | *847.5 m%* | *-Infinity V* | *-Infinity V* | | | | | | | | | |
| | *Min* | *1.113* | *57.20 %* | *Infinity V* | *Infinity V* | | | | | | | | | |
| | *Max* | *1.119* | *58.05 %* | *-Infinity V* | *-Infinity V* | | | | | | | | | |
| | *Sum* | *2.232* | *115.3 %* | *0.000 V* | *0.000 V* | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 1.113 | 57.2% | (no value) | (no value) | 819.768 mV | 912.128 mV | 912.128 mV | 912.128 mV | 2.7 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 1.119 | 58.1% | (no value) | (no value) | 814.571 mV | 911.391 mV | 911.391 mV | 911.391 mV | 1.62 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |

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## Lane 2 - Non-Transition Voltage Range Measurement (Swing 2)

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

Test Summary: Pass

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

**Pass Limits:** >= 708 m | **Non-Transition Voltage Range (Worst of 2 Trials)** 885 m | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | VSwing Non-Transition Bit(Pre-emphasis 2) (V) | VSwing Non-Transition Bit(Pre-emphasis 3) (V) | VSwing Non-Transition Bit(Pre-emphasis 0) | VSwing Non-Transition Bit(Pre-emphasis 1) | VSwing Non-Transition Bit (Max) | VSwing Non-Transition Bit (Min) | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *885.4 m* | *25.07 %* | *NaN V* | *NaN V* | | | | | | | | | |
| | *StdDev* | *385.1 µ* | *99.87 m%* | *NaN V* | *NaN V* | | | | | | | | | |
| | *Range* | *544.6 µ* | *141.2 m%* | *-Infinity V* | *-Infinity V* | | | | | | | | | |
| | *Min* | *885.1 m* | *25.00 %* | *Infinity V* | *Infinity V* | | | | | | | | | |
| | *Max* | *885.7 m* | *25.14 %* | *-Infinity V* | *-Infinity V* | | | | | | | | | |
| | *Sum* | *1.771* | *50.14 %* | *0.000 V* | *0.000 V* | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 885 m | 25.0% | (no value) | (no value) | 829.219 mV | 733.983 mV | 733.983 mV | 733.983 mV | 2.7 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 886 m | 25.1% | (no value) | (no value) | 814.935 mV | 721.783 mV | 721.783 mV | 721.783 mV | 1.62 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |

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## Lane 3 - Non-Transition Voltage Range Measurement (Swing 2)

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

Test Summary: Pass

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

**Pass Limits:** >= 708 m | **Non-Transition Voltage Range (Worst of 2 Trials)** 1.123 | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | VSwing Non-Transition Bit(Pre-emphasis 2) (V) | VSwing Non-Transition Bit(Pre-emphasis 3) (V) | VSwing Non-Transition Bit(Pre-emphasis 0) | VSwing Non-Transition Bit(Pre-emphasis 1) | VSwing Non-Transition Bit (Max) | VSwing Non-Transition Bit (Min) | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *1.125* | *58.90 %* | *NaN V* | *NaN V* | | | | | | | | | |
| | *StdDev* | *2.423 m* | *399.5 m%* | *NaN V* | *NaN V* | | | | | | | | | |
| | *Range* | *3.427 m* | *565.0 m%* | *-Infinity V* | *-Infinity V* | | | | | | | | | |
| | *Min* | *1.123* | *58.62 %* | *Infinity V* | *Infinity V* | | | | | | | | | |
| | *Max* | *1.127* | *59.18 %* | *-Infinity V* | *-Infinity V* | | | | | | | | | |
| | *Sum* | *2.250* | *117.8 %* | *0.000 V* | *0.000 V* | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 1.123 | 58.6% | (no value) | (no value) | 815.375 mV | 916.042 mV | 916.042 mV | 916.042 mV | 2.7 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 1.127 | 59.2% | (no value) | (no value) | 814.248 mV | 917.565 mV | 917.565 mV | 917.565 mV | 1.62 Gbps | Swing 2 | Pre-emphasis 1 | SSC Disabled | Level 0 |

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

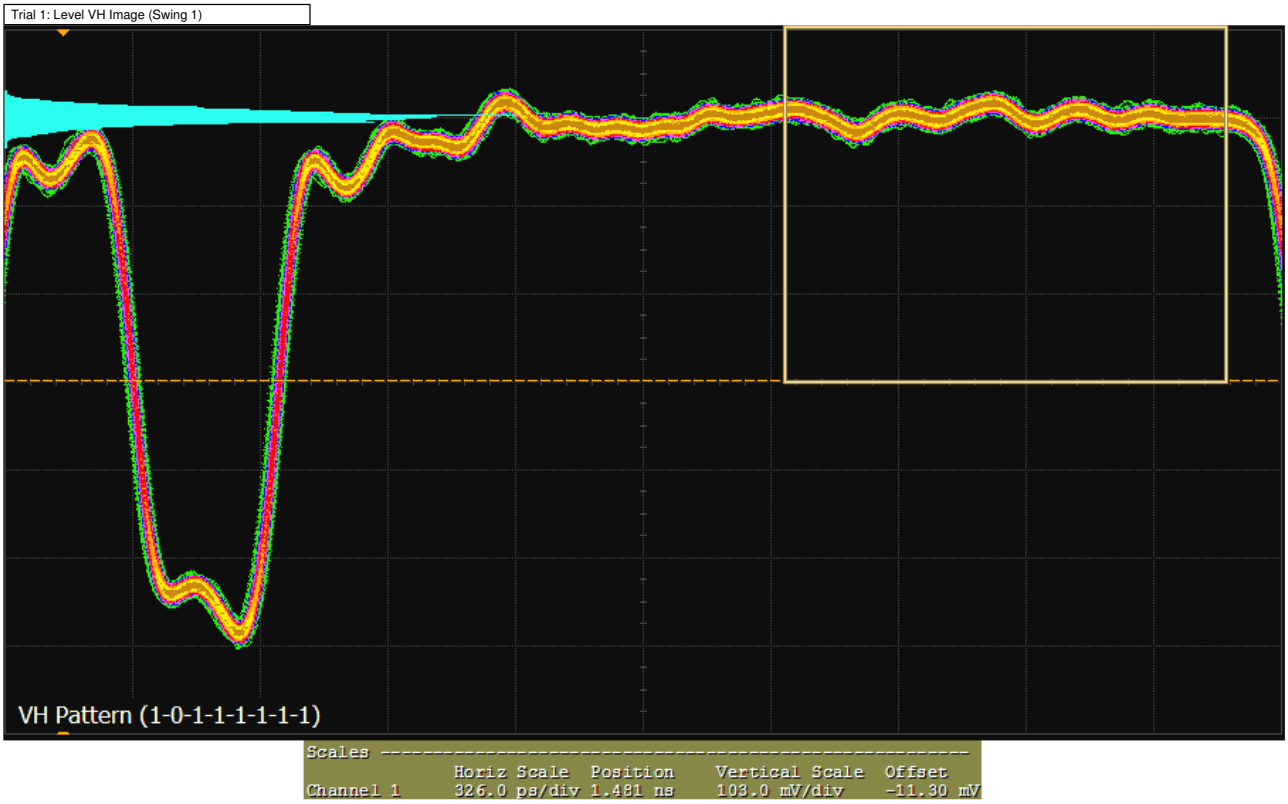
**Pass Limits:** [800.0 mdB to 6.0000 dB] | **Lane 0 Non-PreEmphasis Level Test (Swing 1/Swing 0) (Worst of 2 Trials)** 3.0355 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

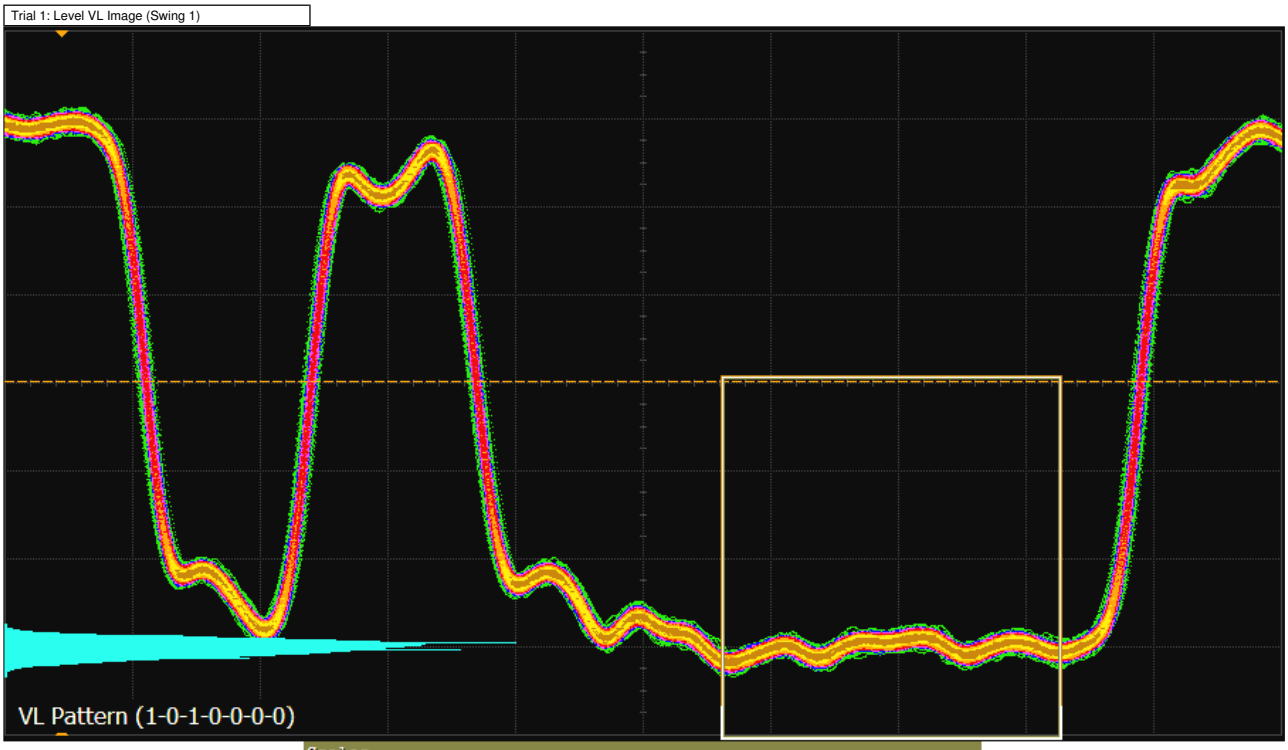
| Pass | Trial | Actual Value | Margin | Level VH Image (Swing 1) | Level VL Image (Swing 1) | Level VH Image (Swing 0) | Level VL Image (Swing 0) | Number of UI | VH Trigger Pattern | VL Trigger Pattern | VTop (Swing 1) | VBase (Swing 1) | VSwing (Swing 1) | VTop (Swing 0) | VBase (Swing 0) | VSwing (Swing 0) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *3.056 dB* | *43.39 %* | | | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *29.43 mdB* | *565.7 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Range* | *41.62 mdB* | *800.0 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Min* | *3.035 dB* | *42.99 %* | | | | | | | | | | | | | | | | | | | | |
| | *Max* | *3.077 dB* | *43.79 %* | | | | | | | | | | | | | | | | | | | | |
| | *Sum* | *6.113 dB* | *86.78 %* | | | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 3.0355 dB | 43.0% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 291.842 mV | -316.701 mV | 608.543 mV | 203.674 mV | -225.385 mV | 429.059 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbp |
| ✓ | Trial 2 | 3.0771 dB | 43.8% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 290.671 mV | -311.993 mV | 602.664 mV | 201.265 mV | -221.618 mV | 422.883 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbp |

**Trial 1**

Trial 1: Level VH Image (Swing 1)

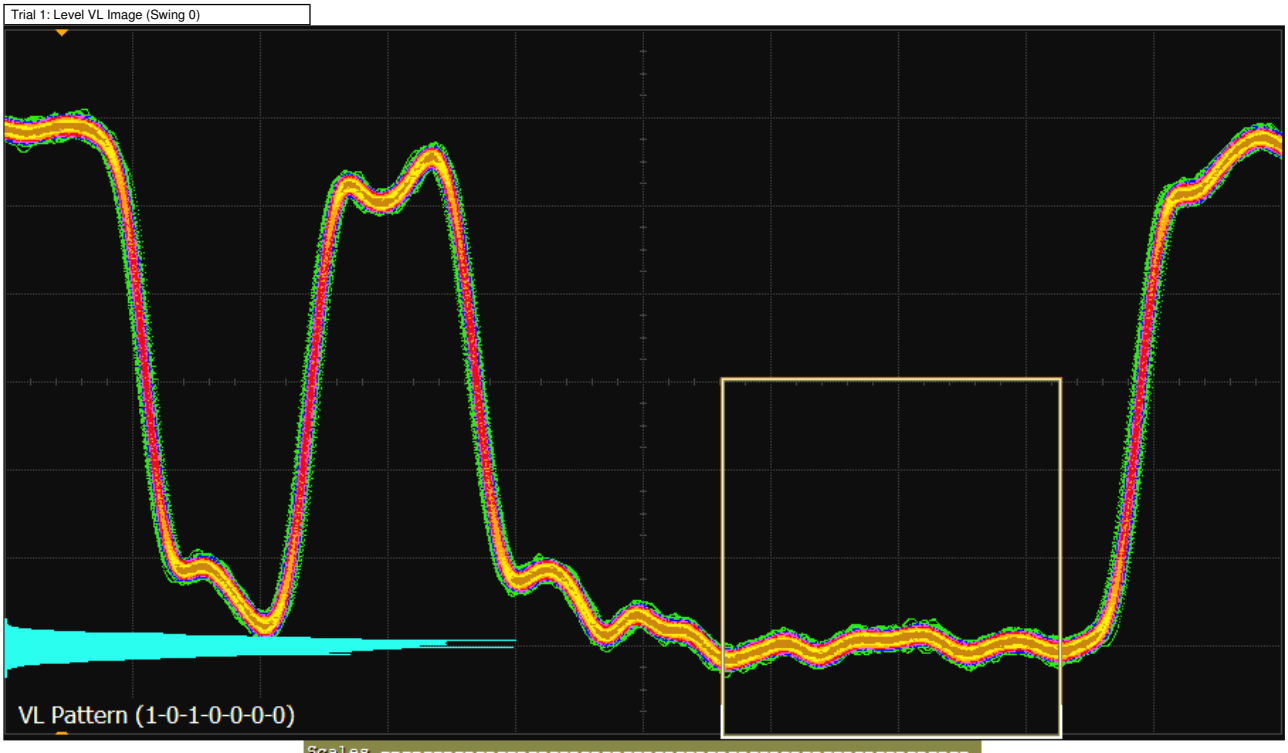


Trial 1: Level VL Image (Swing 1)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 285.0 ps/div | 1.296 ns | 103.0 mV/div | -11.30 mV |

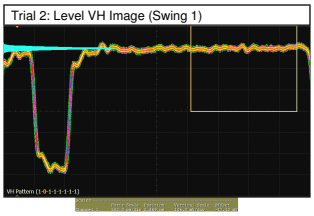
Trial 1: Level VL Image (Swing 0)



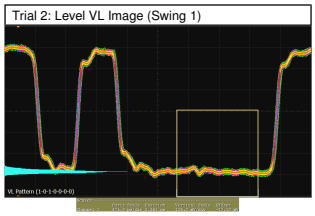

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 285.0 ps/div | 1.296 ns | 73.50 mV/div | -9.300 mV |

**Trial 2**

Trial 2: Level VH Image (Swing 1)

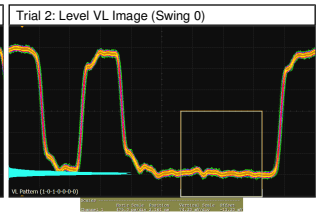


Trial 2: Level VL Image (Swing 1)



Trial 2: Level VH Image (Swing 0)

Trial 2: Level VL Image (Swing 0)



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

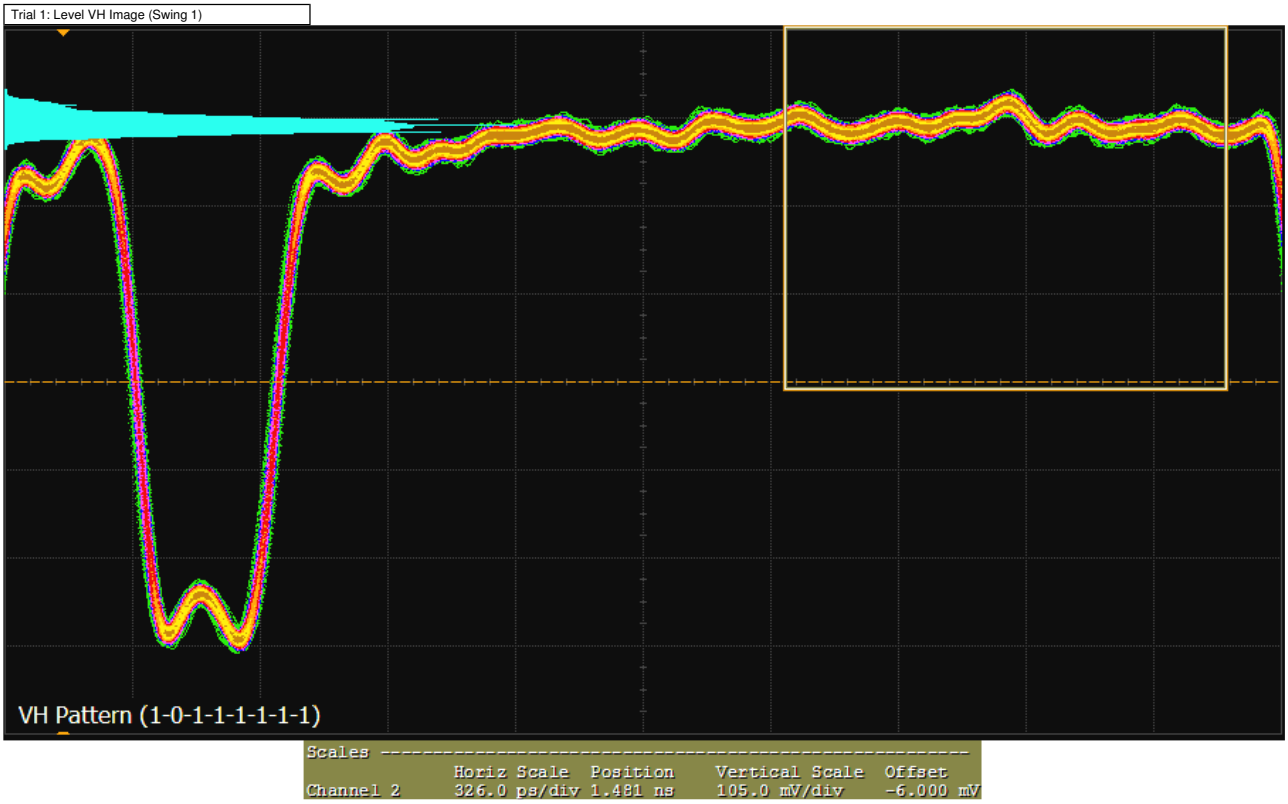
**Pass Limits:** [800.0 mdB to 6.0000 dB] | **Lane 1 Non-PreEmphasis Level Test (Swing 1/Swing 0) (Worst of 2 Trials)** 3.0377 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | 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 | BitR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *3.045 dB* | *43.18 %* | | | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *10.56 mdB* | *204.0 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Range* | *14.94 mdB* | *288.5 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Min* | *3.038 dB* | *43.03 %* | | | | | | | | | | | | | | | | | | | | |
| | *Max* | *3.053 dB* | *43.32 %* | | | | | | | | | | | | | | | | | | | | |
| | *Sum* | *6.090 dB* | *86.35 %* | | | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 3.0377 dB | 43.0% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 296.202 mV | -313.953 mV | 610.155 mV | 206.583 mV | -223.501 mV | 430.084 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbp |
| ✓ | Trial 2 | 3.0527 dB | 43.3% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 293.032 mV | -311.452 mV | 604.484 mV | 203.201 mV | -222.154 mV | 425.355 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbp |

**Trial 1**

Trial 1: Level VH Image (Swing 1)



Trial 1: Level VL Image (Swing 1)

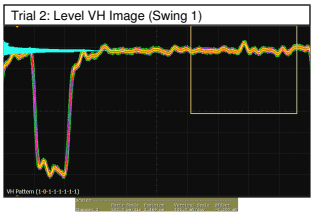

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 285.0 ps/div | 1.296 ns | 105.0 mV/div | -6.000 mV |

Trial 1: Level VL Image (Swing 0)

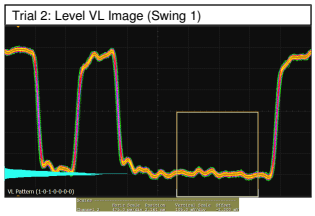

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 285.0 ps/div | 1.296 ns | 73.50 mV/div | -8.300 mV |

**Trial 2**

Trial 2: Level VH Image (Swing 1)

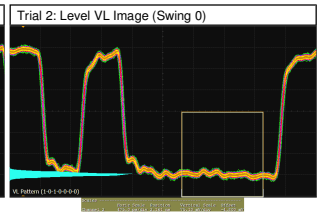


Trial 2: Level VL Image (Swing 1)



Trial 2: Level VH Image (Swing 0)

Trial 2: Level VL Image (Swing 0)



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

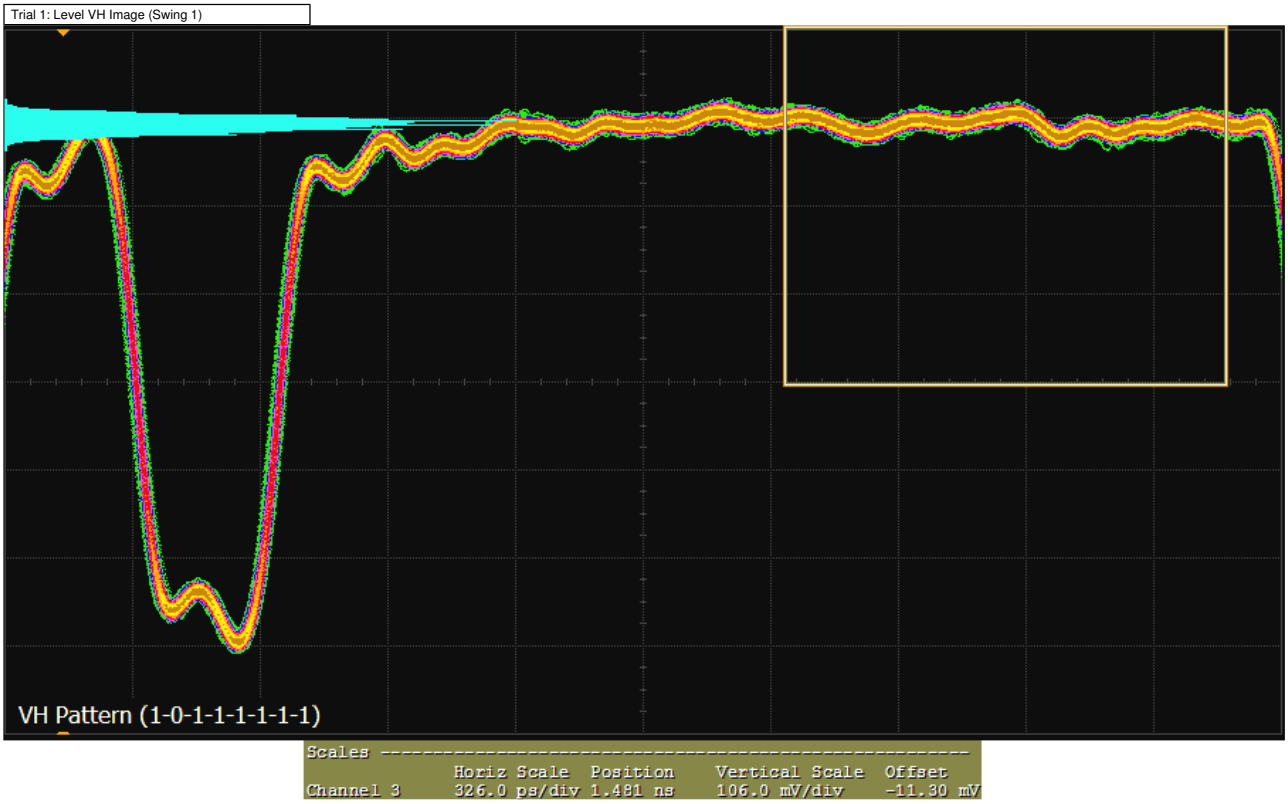
**Pass Limits:** [800.0 mdB to 6.0000 dB] | **Lane 2 Non-PreEmphasis Level Test (Swing 1/Swing 0) (Worst of 2 Trials)** 2.9466 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | 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 | BitR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *3.062 dB* | *43.50 %* | | | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *163.4 mdB* | *3.143 %* | | | | | | | | | | | | | | | | | | | | |
| | *Range* | *231.0 mdB* | *4.444 %* | | | | | | | | | | | | | | | | | | | | |
| | *Min* | *2.947 dB* | *41.28 %* | | | | | | | | | | | | | | | | | | | | |
| | *Max* | *3.178 dB* | *45.73 %* | | | | | | | | | | | | | | | | | | | | |
| | *Sum* | *6.124 dB* | *87.01 %* | | | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 2.9466 dB | 41.3% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 298.874 mV | -322.942 mV | 621.816 mV | 210.916 mV | -232.009 mV | 442.925 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbp |
| ✓ | Trial 2 | 3.1777 dB | 45.7% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 296.021 mV | -313.957 mV | 609.977 mV | 202.957 mV | -220.131 mV | 423.088 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbp |

**Trial 1**

Trial 1: Level VH Image (Swing 1)



Trial 1: Level VL Image (Swing 1)

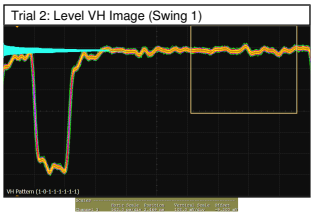

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 285.0 ps/div | 1.296 ns | 106.0 mV/div | -11.30 mV |

Trial 1: Level VL Image (Swing 0)

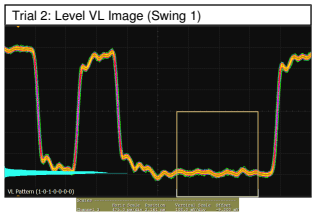

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 285.0 ps/div | 1.296 ns | 74.80 mV/div | -9.300 mV |

**Trial 2**

Trial 2: Level VH Image (Swing 1)

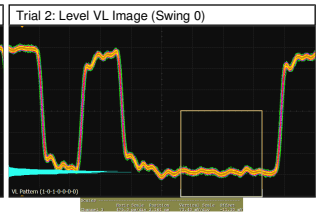


Trial 2: Level VL Image (Swing 1)



Trial 2: Level VH Image (Swing 0)

Trial 2: Level VL Image (Swing 0)



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## 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: Pass

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

**Pass Limits:** [800.0 mdB to 6.0000 dB] | **Lane 3 Non-PreEmphasis Level Test (Swing 1/Swing 0) (Worst of 2 Trials)** 3.1453 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | 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 | BitR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *3.151 dB* | *45.21 %* | | | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *7.915 mdB* | *152.3 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Range* | *11.19 mdB* | *215.4 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Min* | *3.145 dB* | *45.10 %* | | | | | | | | | | | | | | | | | | | | |
| | *Max* | *3.157 dB* | *45.32 %* | | | | | | | | | | | | | | | | | | | | |
| | *Sum* | *6.302 dB* | *90.42 %* | | | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 3.1453 dB | 45.1% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 288.867 mV | -311.442 mV | 600.309 mV | 198.768 mV | -219.168 mV | 417.935 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gbp |
| ✓ | Trial 2 | 3.1565 dB | 45.3% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 286.992 mV | -309.957 mV | 596.950 mV | 196.925 mV | -218.137 mV | 415.061 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbp |

**Trial 1**

Trial 1: Level VH Image (Swing 1)

Trial 1: Level VL Image (Swing 1)

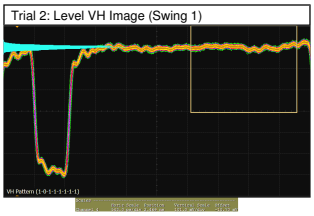

```
Scales ------------------------------------------------------
                Horiz Scale  Position    Vertical Scale  Offset
Channel 4       285.0 ps/div 1.296 ns    102.0 mV/div    -17.30 mV
```

Trial 1: Level VL Image (Swing 0)

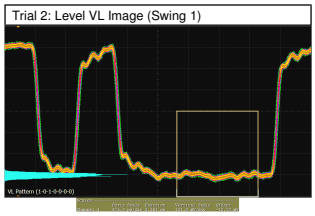

```
Scales ------------------------------------------------------
                Horiz Scale  Position    Vertical Scale  Offset
Channel 4       285.0 ps/div 1.296 ns    72.40 mV/div    -14.00 mV
```

**Trial 2**

Trial 2: Level VH Image (Swing 1)

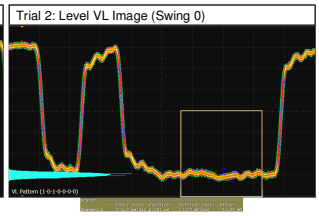


Trial 2: Level VL Image (Swing 1)



Trial 2: Level VH Image (Swing 0)

Trial 2: Level VL Image (Swing 0)



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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.

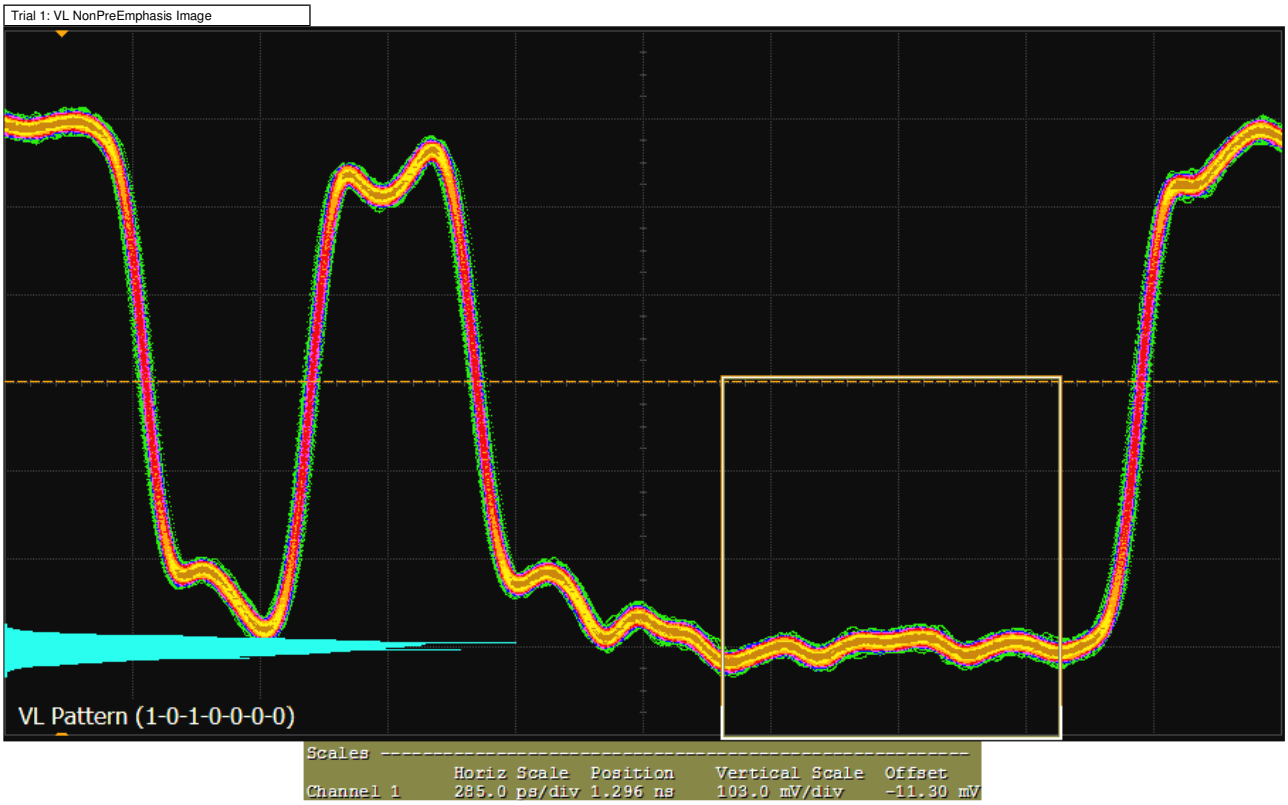
**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 2) - PreEmphasis(Pre-emphasis 1) (Worst of 4 Trials)** -2.424 dB | **# Trials Run:** 4 | **Worst Trial:** Trial 3

**Overall Summary + details of 4 worst trials**

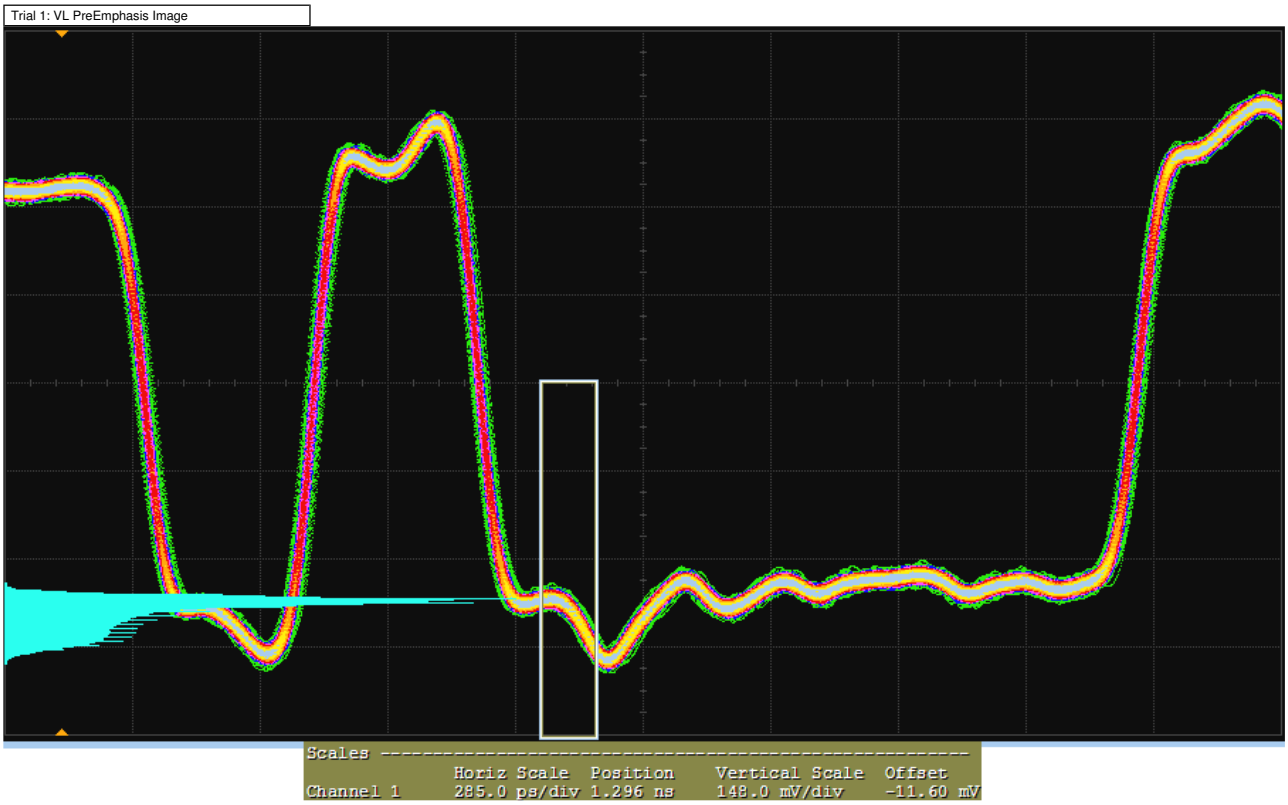
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-2.375 dB* | *-248.5 %* | | | | | | | | | | | | | |
| | *StdDev* | *47.35 mdB* | *2.943 %* | | | | | | | | | | | | | |
| | *Range* | *104.7 mdB* | *6.500 %* | | | | | | | | | | | | | |
| | *Min* | *-2.424 dB* | *-251.5 %* | | | | | | | | | | | | | |
| | *Max* | *-2.320 dB* | *-245.0 %* | | | | | | | | | | | | | |
| | *Sum* | *-9.501 dB* | *-993.8 %* | | | | | | | | | | | | | |
| | Trial 1 | -2.320 dB | **-245.0%** | (See image) | (See image) | (See image) | (See image) | 1000 | 790.553 mV | 689.765 mV | 1.185 dB | 2.7 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| | Trial 2 | -2.354 dB | **-247.1%** | (See image) | (See image) | (See image) | (See image) | 1000 | 563.304 mV | 491.273 mV | 1.188 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| | Trial 3 (Worst) | -2.424 dB | **-251.5%** | (See image) | (See image) | (See image) | (See image) | 1000 | 915.695 mV | 683.712 mV | 2.538 dB | 1.62 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| | Trial 4 | -2.403 dB | **-250.2%** | (See image) | (See image) | (See image) | (See image) | 1000 | 660.318 mV | 483.965 mV | 2.699 dB | 1.62 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image



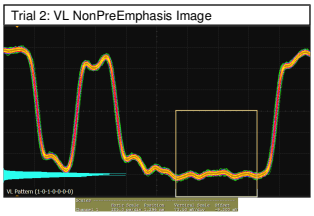
Trial 1: VL PreEmphasis Image



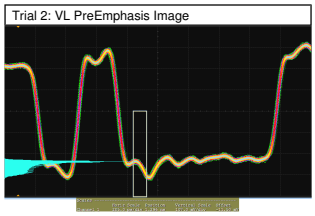

Trial 1: VH PreEmphasis Image


**Trial 2**

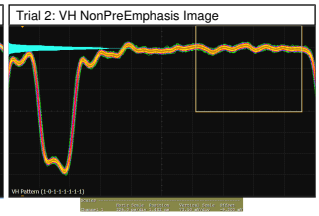
Trial 2: VL NonPreEmphasis Image



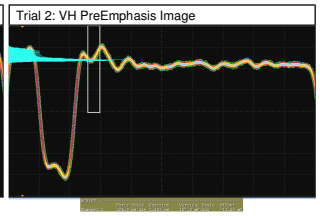
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



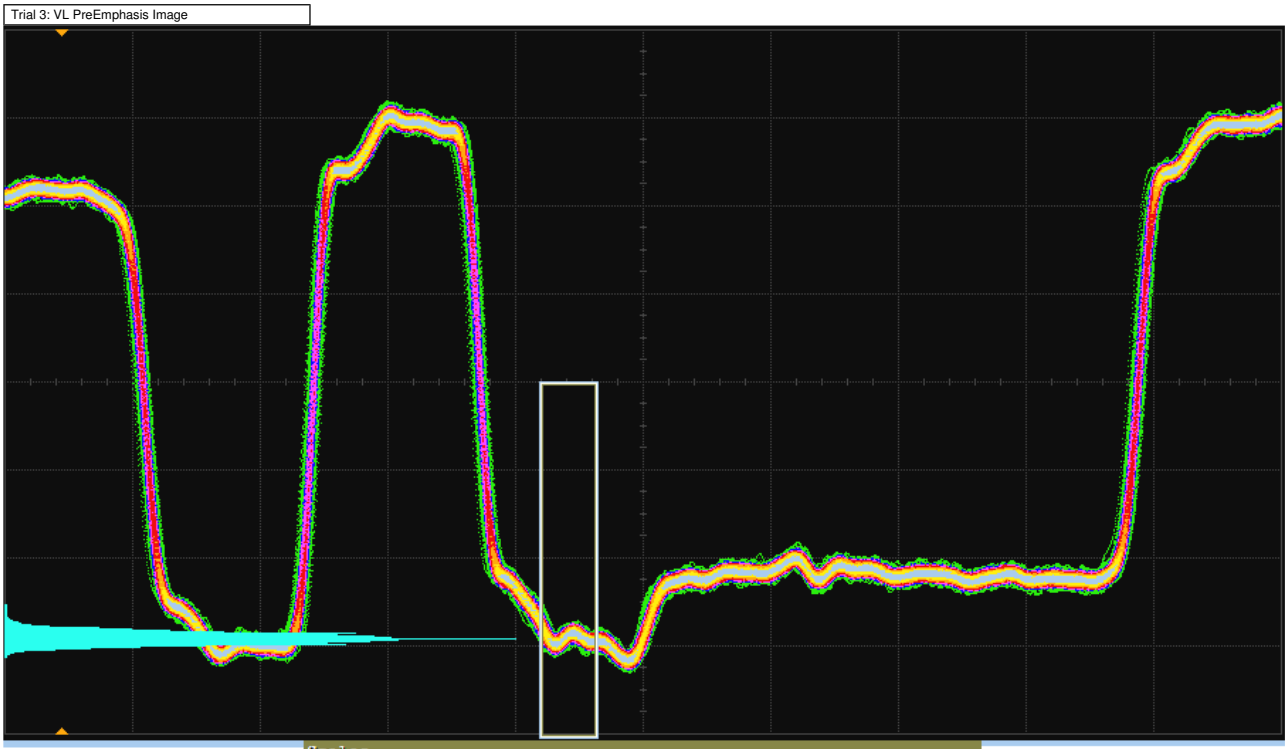
**Trial 3**

Trial 3: VL NonPreEmphasis Image


Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 475.0 ps/div | 2.161 ns | 106.0 mV/div | -17.10 mV |

Trial 3: VL PreEmphasis Image



Scales

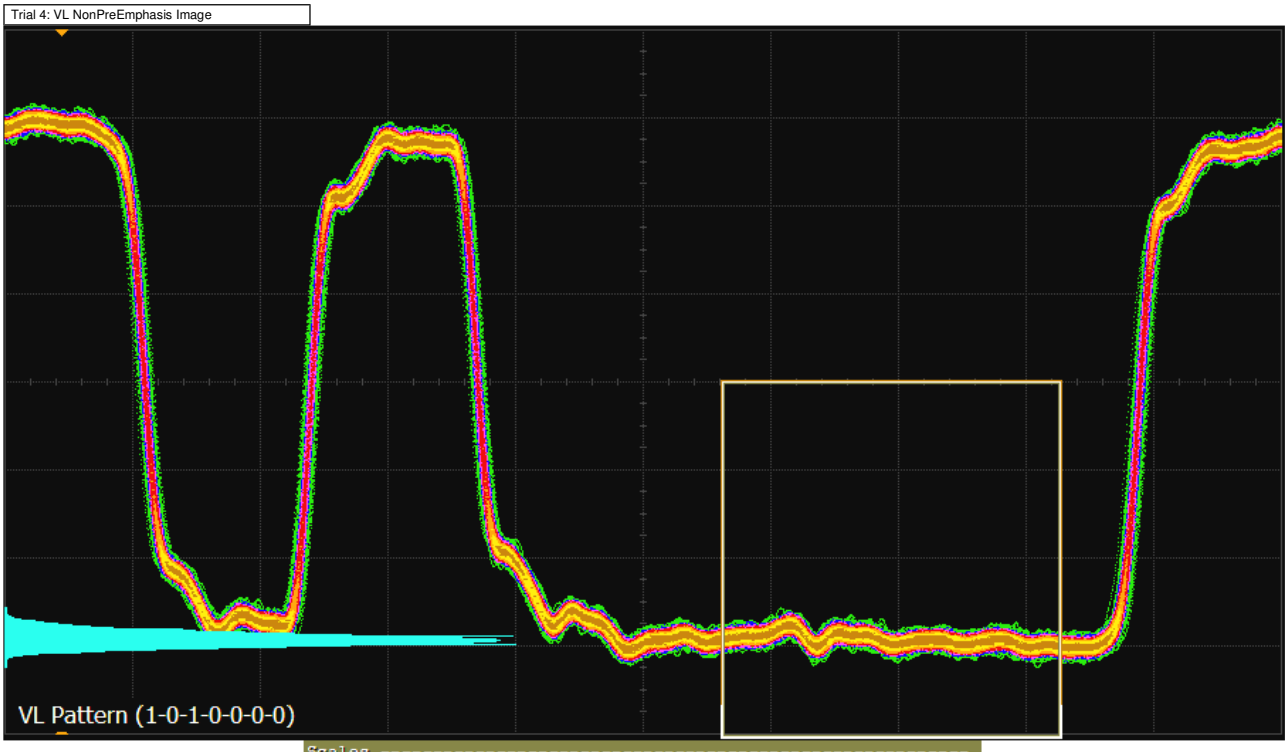
| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 475.0 ps/div | 2.161 ns | 159.0 mV/div | -9.800 mV |

Trial 3: VH NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 543.0 ps/div | 2.469 ns | 106.0 mV/div | -17.10 mV |

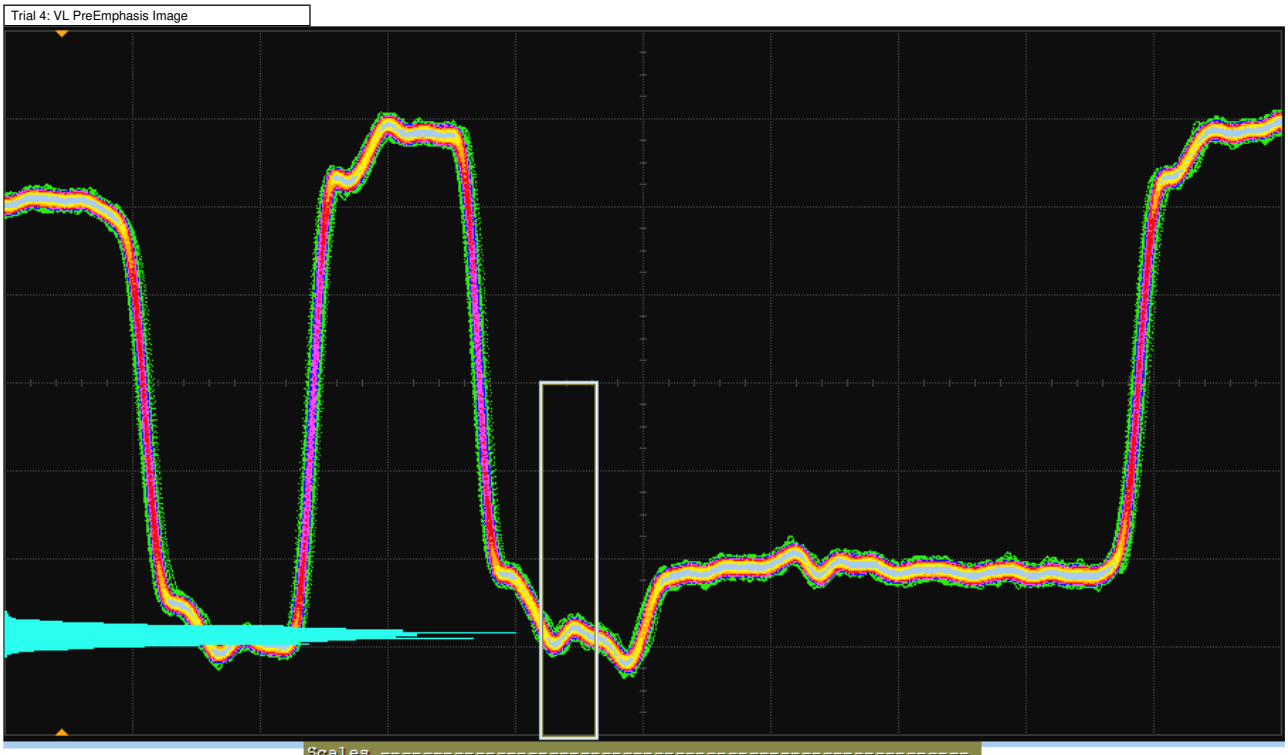
Trial 4

Trial 4: VL NonPreEmphasis Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 475.0 ps/div | 2.161 ns | 74.20 mV/div | -13.20 mV |

Trial 4: VL PreEmphasis Image



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 475.0 ps/div | 2.161 ns | 117.0 mV/div | -10.10 mV |

Trial 4: VH PreEmphasis Image

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 543.0 ps/div | 2.469 ns | 117.0 mV/div | -10.10 mV |

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## 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: Pass

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

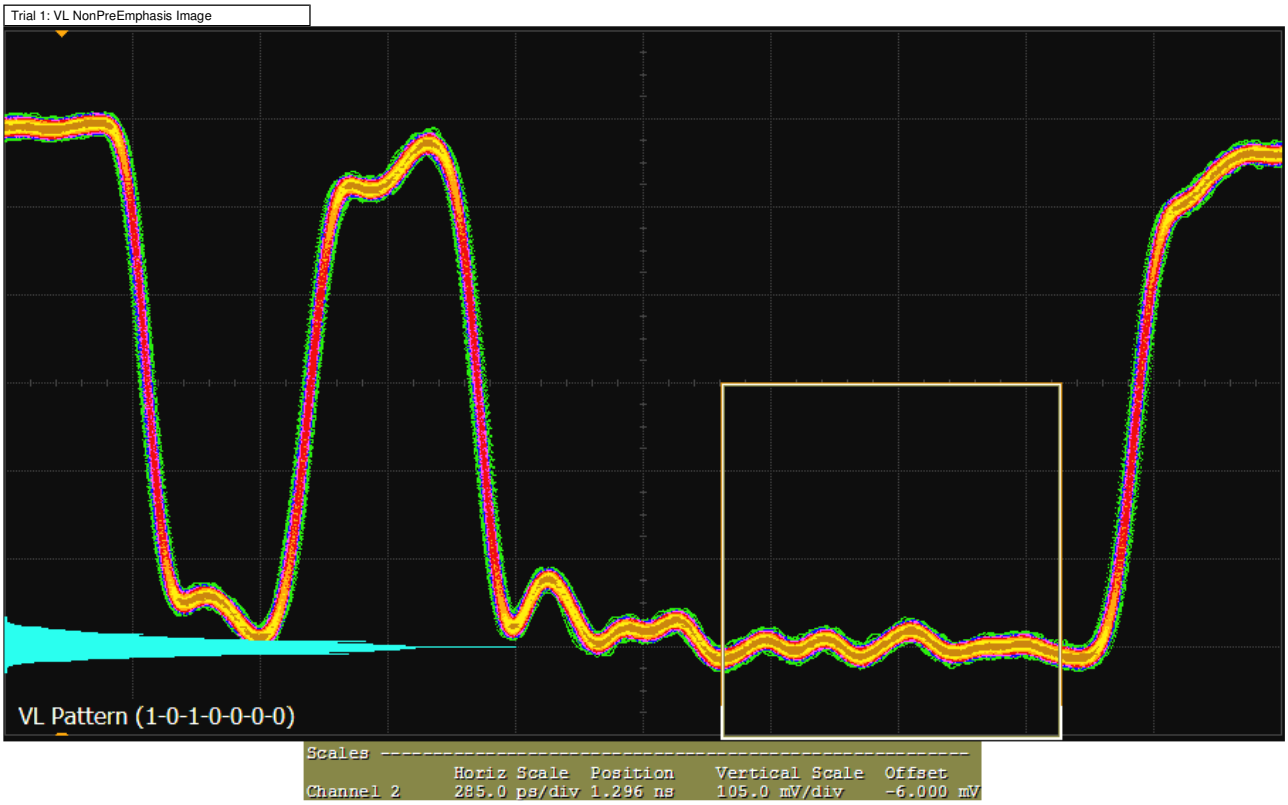
**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 2) - PreEmphasis(Pre-emphasis 1) (Worst of 4 Trials)** 3.026 dB | **# Trials Run:** 4 | **Worst Trial:** Trial 1

**Overall Summary + details of 4 worst trials**

| Pass | 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 | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *3.181 dB* | *98.80 %* | | | | | | | | | | | | | |
| | *StdDev* | *123.5 mdB* | *7.703 %* | | | | | | | | | | | | | |
| | *Range* | *300.6 mdB* | *18.75 %* | | | | | | | | | | | | | |
| | *Min* | *3.026 dB* | *89.13 %* | | | | | | | | | | | | | |
| | *Max* | *3.326 dB* | *107.9 %* | | | | | | | | | | | | | |
| | *Sum* | *12.72 dB* | *395.2 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 3.026 dB | 89.1% | (See image) | (See image) | (See image) | (See image) | 1000 | 823.091 mV | 687.069 mV | 1.569 dB | 2.7 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 3.201 dB | 100.1% | (See image) | (See image) | (See image) | (See image) | 1000 | 592.110 mV | 490.382 mV | 1.637 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | 3.170 dB | 98.1% | (See image) | (See image) | (See image) | (See image) | 1000 | 906.273 mV | 675.602 mV | 2.551 dB | 1.62 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | 3.326 dB | 107.9% | (See image) | (See image) | (See image) | (See image) | 1000 | 658.294 mV | 486.701 mV | 2.623 dB | 1.62 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image

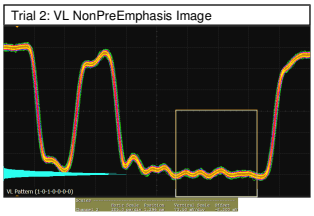


Trial 1: VL PreEmphasis Image

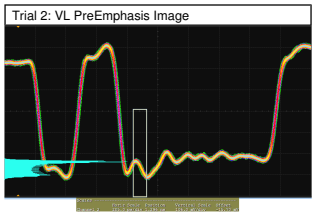

Trial 1: VH PreEmphasis Image


**Trial 2**

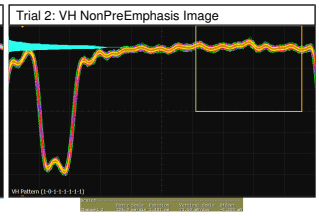
Trial 2: VL NonPreEmphasis Image



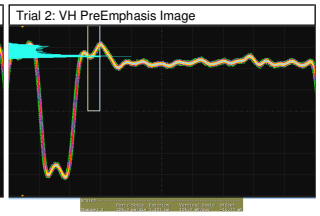
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



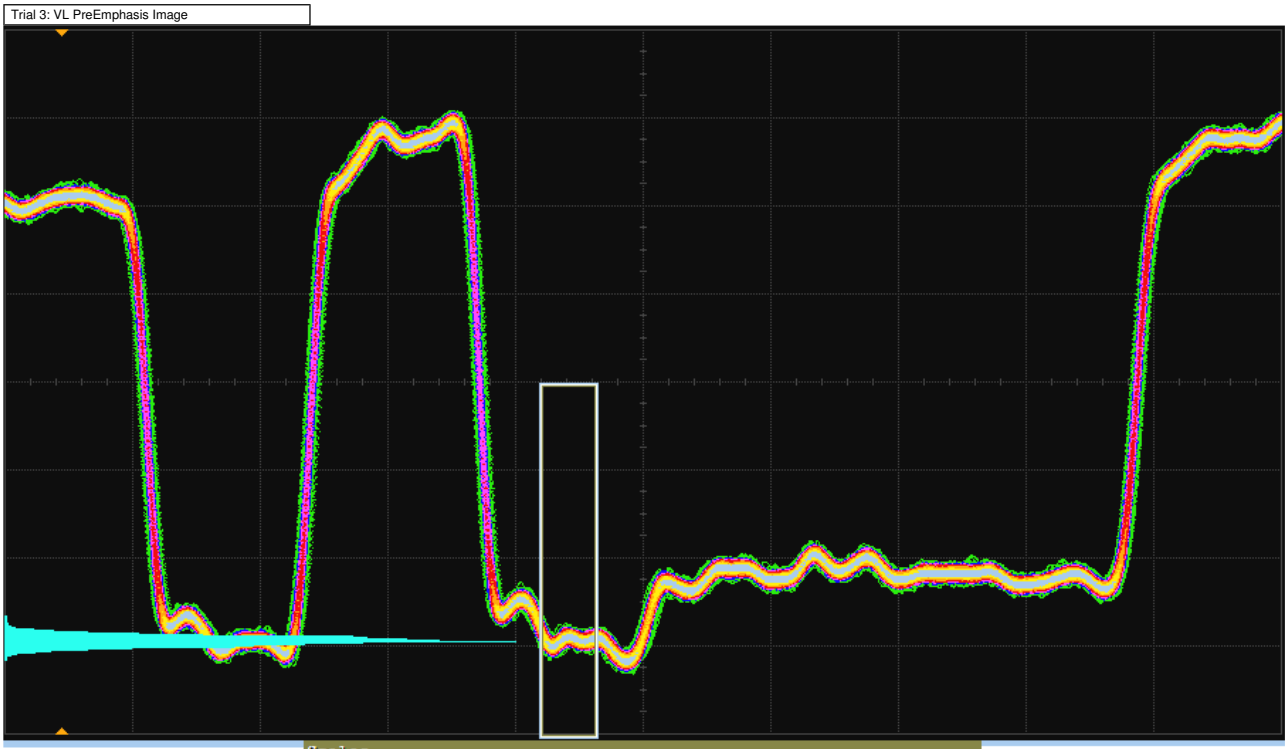
**Trial 3**

Trial 3: VL NonPreEmphasis Image


Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 475.0 ps/div | 2.161 ns | 105.0 mV/div | -2.300 mV |

Trial 3: VL PreEmphasis Image



Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 475.0 ps/div | 2.161 ns | 161.0 mV/div | -7.500 mV |

Trial 3: VH NonPreEmphasis Image


Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 543.0 ps/div | 2.469 ns | 105.0 mV/div | -2.300 mV |

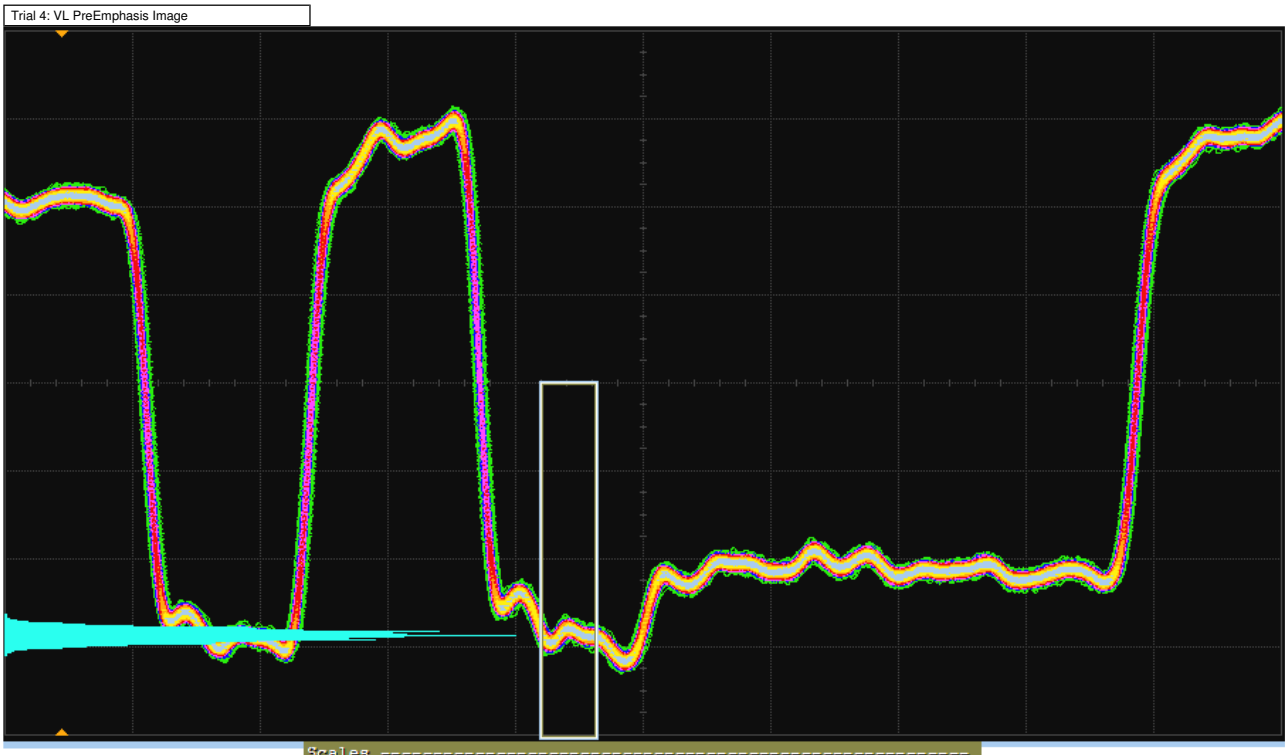
**Trial 4**

Trial 4: VL NonPreEmphasis Image


Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 475.0 ps/div | 2.161 ns | 75.10 mV/div | -4.800 mV |

Trial 4: VL PreEmphasis Image



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 475.0 ps/div | 2.161 ns | 115.0 mV/div | -8.100 mV |

Trial 4: VH PreEmphasis Image

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 543.0 ps/div | 2.469 ns | 115.0 mV/div | -8.100 mV |

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## 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: Pass

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

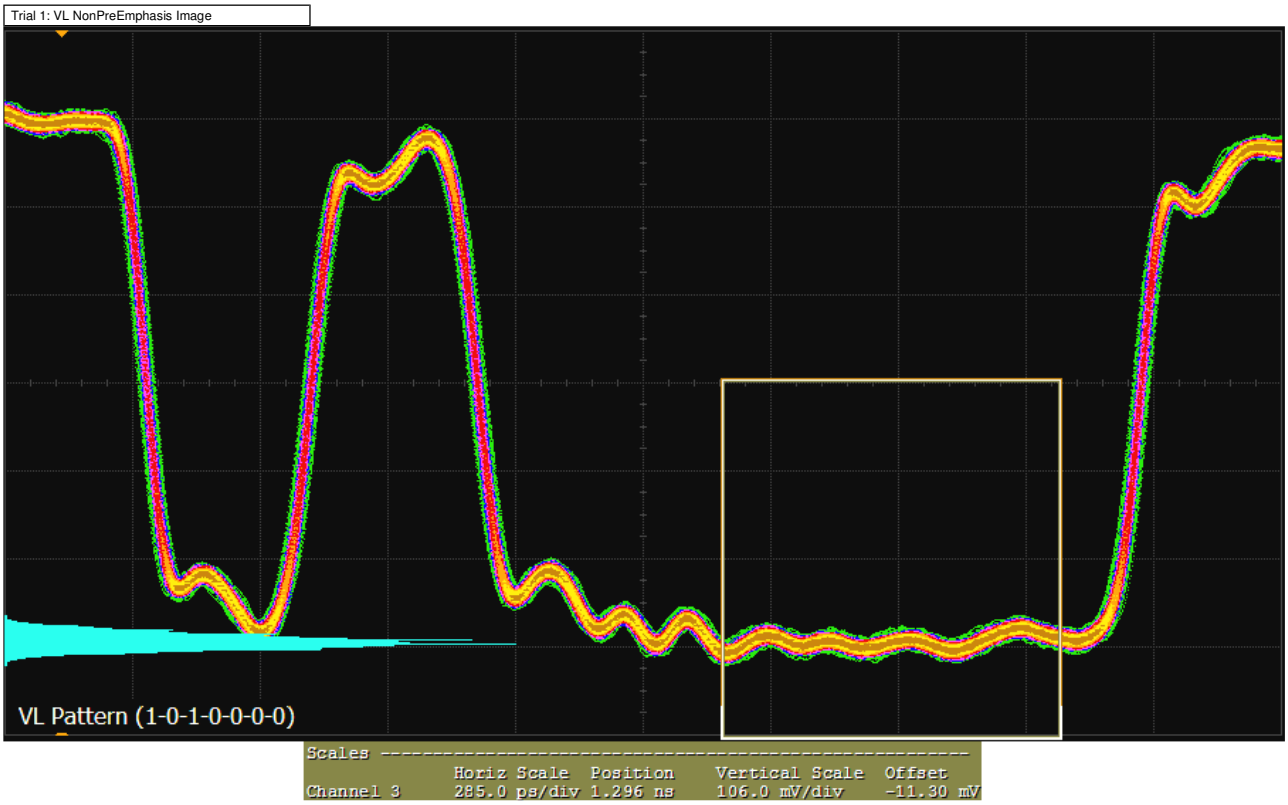
**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 2) - PreEmphasis(Pre-emphasis 1) (Worst of 4 Trials)** 2.133 dB | **# Trials Run:** 4 | **Worst Trial:** Trial 1

**Overall Summary + details of 4 worst trials**

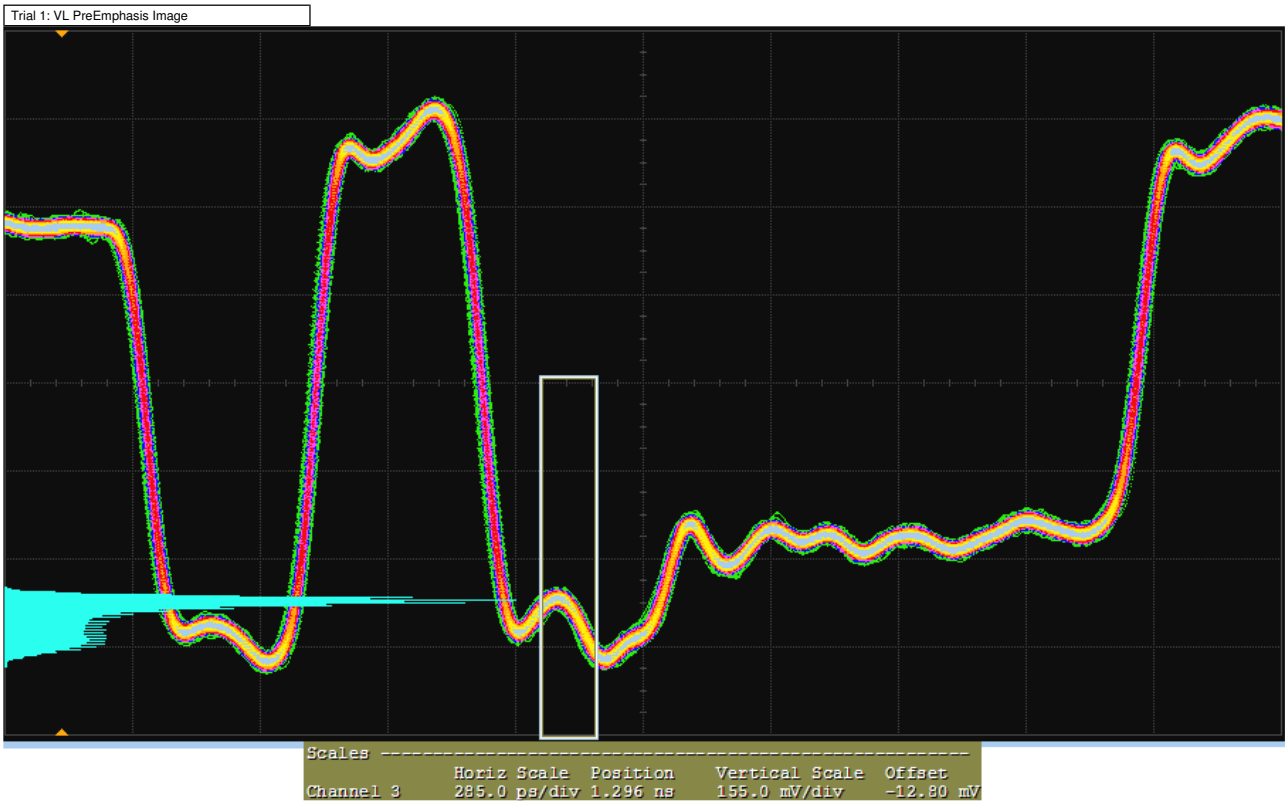
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *2.293 dB* | *43.31 %* | | | | | | | | | | | | | |
| | *StdDev* | *145.1 mdB* | *9.066 %* | | | | | | | | | | | | | |
| | *Range* | *305.2 mdB* | *19.06 %* | | | | | | | | | | | | | |
| | *Min* | *2.133 dB* | *33.31 %* | | | | | | | | | | | | | |
| | *Max* | *2.438 dB* | *52.38 %* | | | | | | | | | | | | | |
| | *Sum* | *9.171 dB* | *173.3 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 2.133 dB | 33.3% | (See image) | (See image) | (See image) | (See image) | 1000 | 874.309 mV | 568.237 mV | 3.743 dB | 2.7 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 2.391 dB | 49.4% | (See image) | (See image) | (See image) | (See image) | 1000 | 662.205 mV | 418.478 mV | 3.986 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 3 | 2.210 dB | 38.1% | (See image) | (See image) | (See image) | (See image) | 1000 | 944.908 mV | 549.198 mV | 4.713 dB | 1.62 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 4 | 2.438 dB | 52.4% | (See image) | (See image) | (See image) | (See image) | 1000 | 713.911 mV | 405.453 mV | 4.914 dB | 1.62 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image



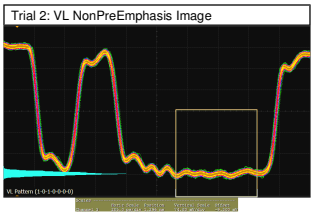
Trial 1: VL PreEmphasis Image



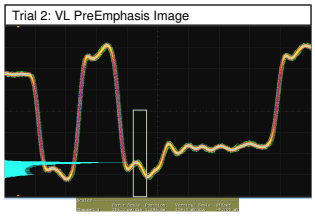

Trial 1: VH PreEmphasis Image


**Trial 2**

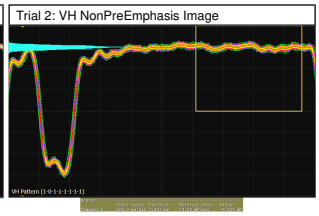
Trial 2: VL NonPreEmphasis Image



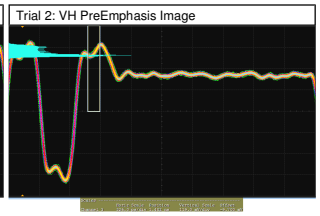
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



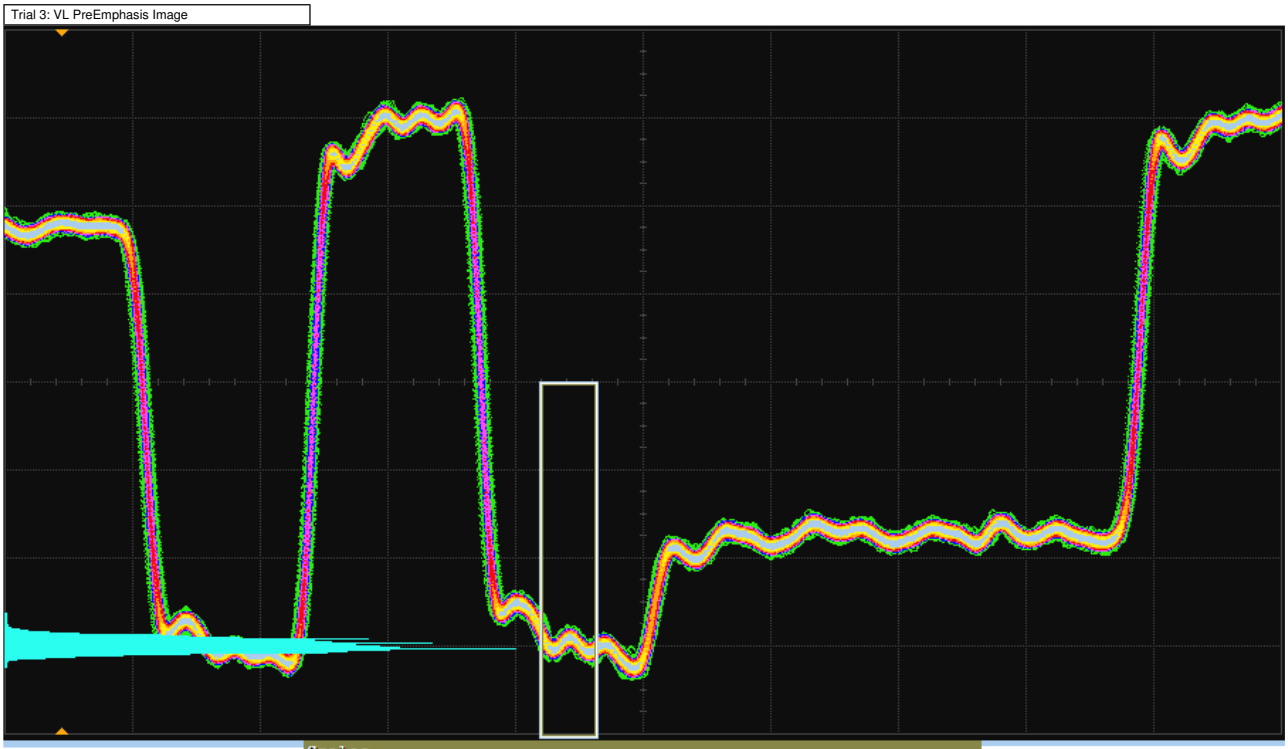
**Trial 3**

Trial 3: VL NonPreEmphasis Image


Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 475.0 ps/div | 2.161 ns | 108.0 mV/div | -9.300 mV |

Trial 3: VL PreEmphasis Image



Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 475.0 ps/div | 2.161 ns | 160.0 mV/div | -8.900 mV |

Trial 3: VH NonPreEmphasis Image

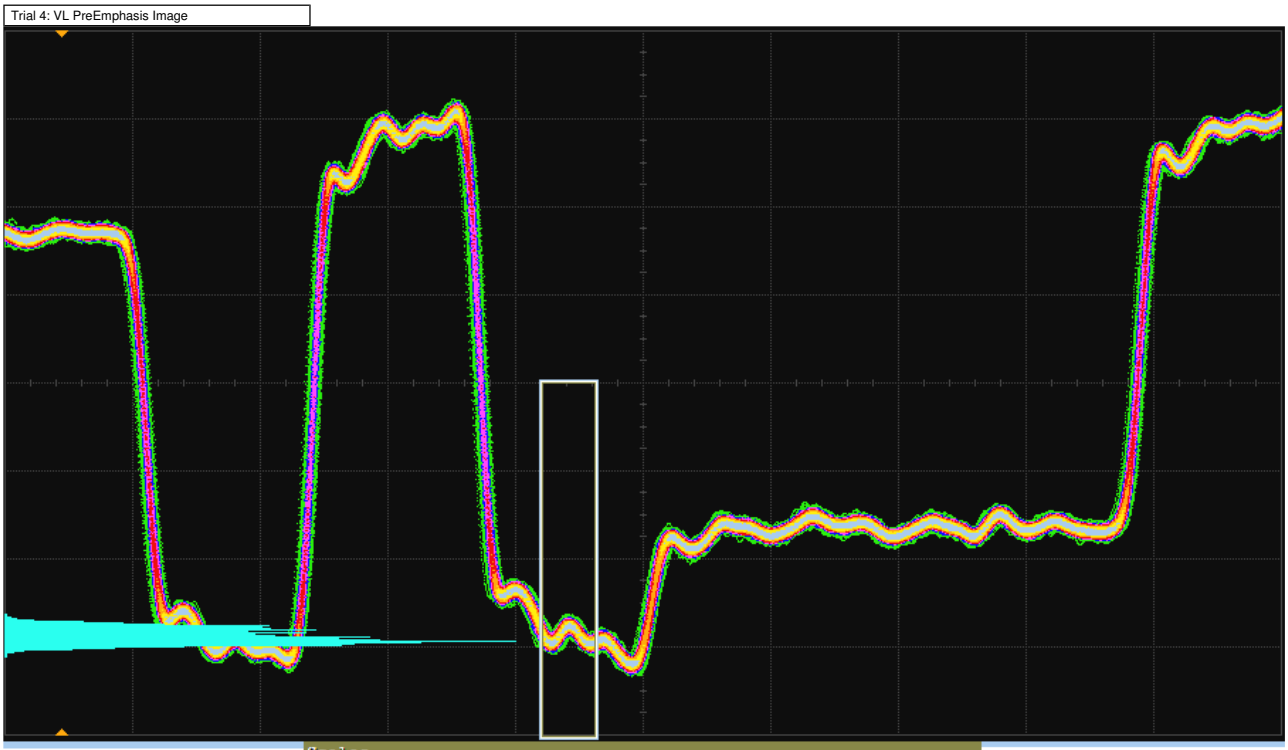

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 543.0 ps/div | 2.469 ns | 108.0 mV/div | -9.300 mV |

Trial 4

Trial 4: VL NonPreEmphasis Image


| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 475.0 ps/div | 2.161 ns | 73.40 mV/div | -11.30 mV |

Trial 4: VL PreEmphasis Image



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 475.0 ps/div | 2.161 ns | 122.0 mV/div | -11.60 mV |

Trial 4: VH PreEmphasis Image

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 543.0 ps/div | 2.469 ns | 122.0 mV/div | -11.60 mV |

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## 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.

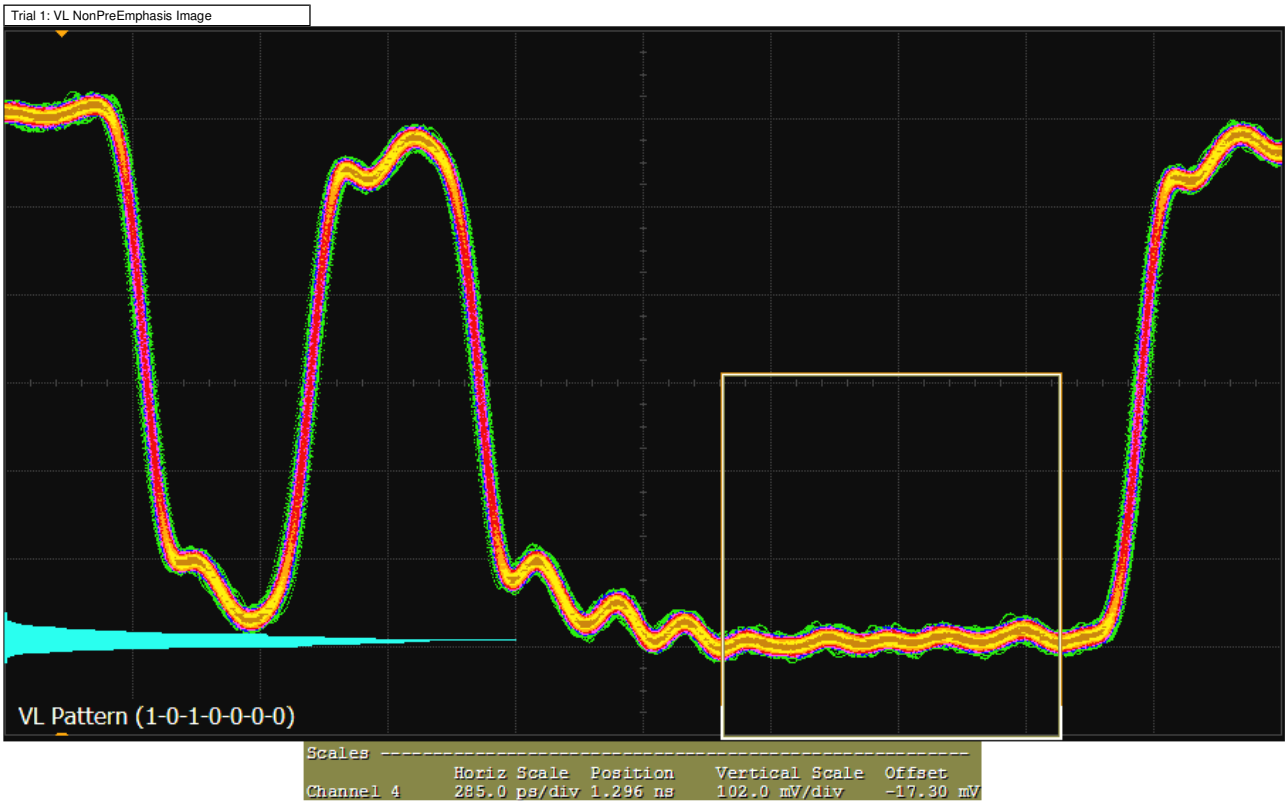
**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 2) - PreEmphasis(Pre-emphasis 1) (Worst of 4 Trials)** 25 mdB | **# Trials Run:** 4 | **Worst Trial:** Trial 4

**Overall Summary + details of 4 worst trials**

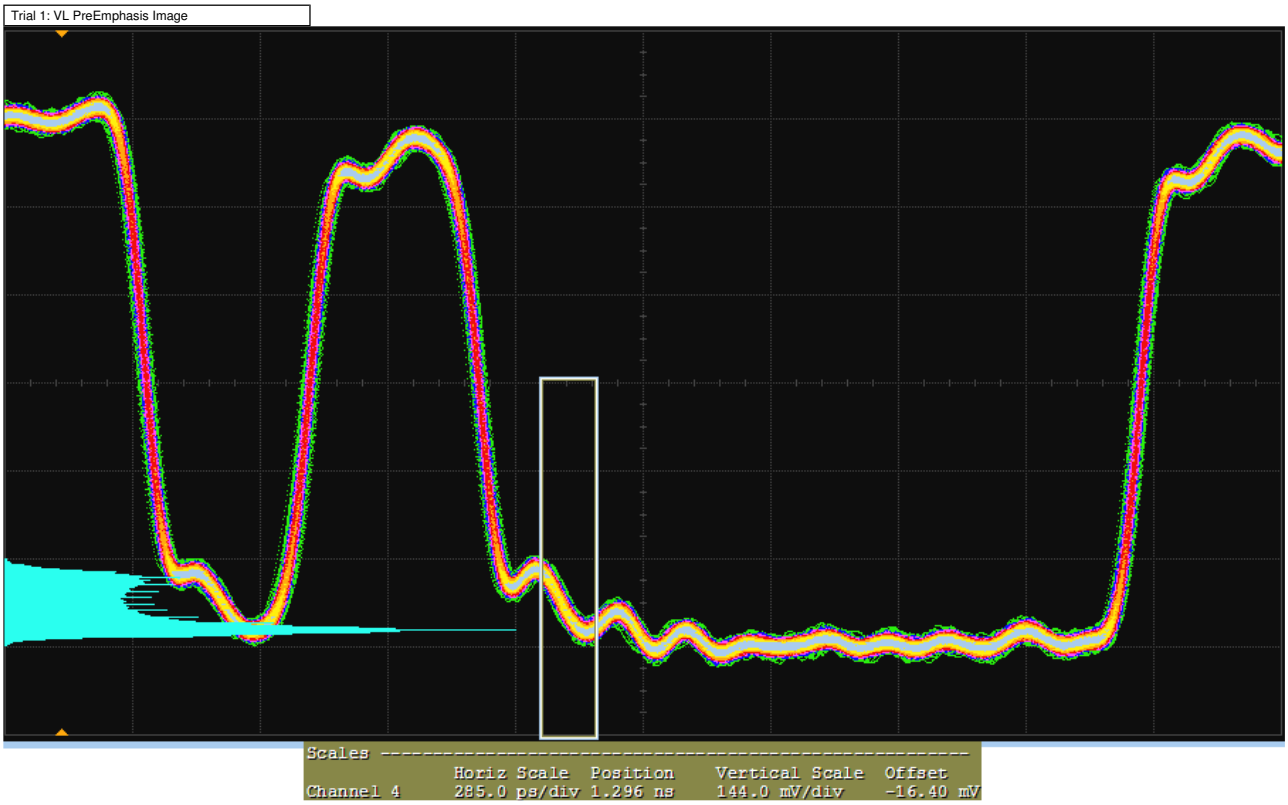
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *51.05 mdB* | *-96.81 %* | | | | | | | | | | | | | |
| | *StdDev* | *29.76 mdB* | *1.869 %* | | | | | | | | | | | | | |
| | *Range* | *68.59 mdB* | *4.313 %* | | | | | | | | | | | | | |
| | *Min* | *25.23 mdB* | *-98.44 %* | | | | | | | | | | | | | |
| | *Max* | *93.82 mdB* | *-94.13 %* | | | | | | | | | | | | | |
| | *Sum* | *204.2 mdB* | *-387.3 %* | | | | | | | | | | | | | |
| ✗ | Trial 1 | 94 mdB | **-94.1%** | (See image) | (See image) | (See image) | (See image) | 1000 | 731.738 mV | 844.177 mV | -1.242 dB | 2.7 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✗ | Trial 2 | 45 mdB | **-97.2%** | (See image) | (See image) | (See image) | (See image) | 1000 | 508.781 mV | 597.463 mV | -1.396 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✗ | Trial 3 | 40 mdB | **-97.5%** | (See image) | (See image) | (See image) | (See image) | 1000 | 765.131 mV | 844.786 mV | -860 mdB | 1.62 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✗ | Trial 4 (Worst) | 25 mdB | **-98.4%** | (See image) | (See image) | (See image) | (See image) | 1000 | 533.143 mV | 595.386 mV | -959 mdB | 1.62 Gbps | Swing 0 | Pre-emphasis 2 | SSC Disabled | Level 0 |

**Trial 1**

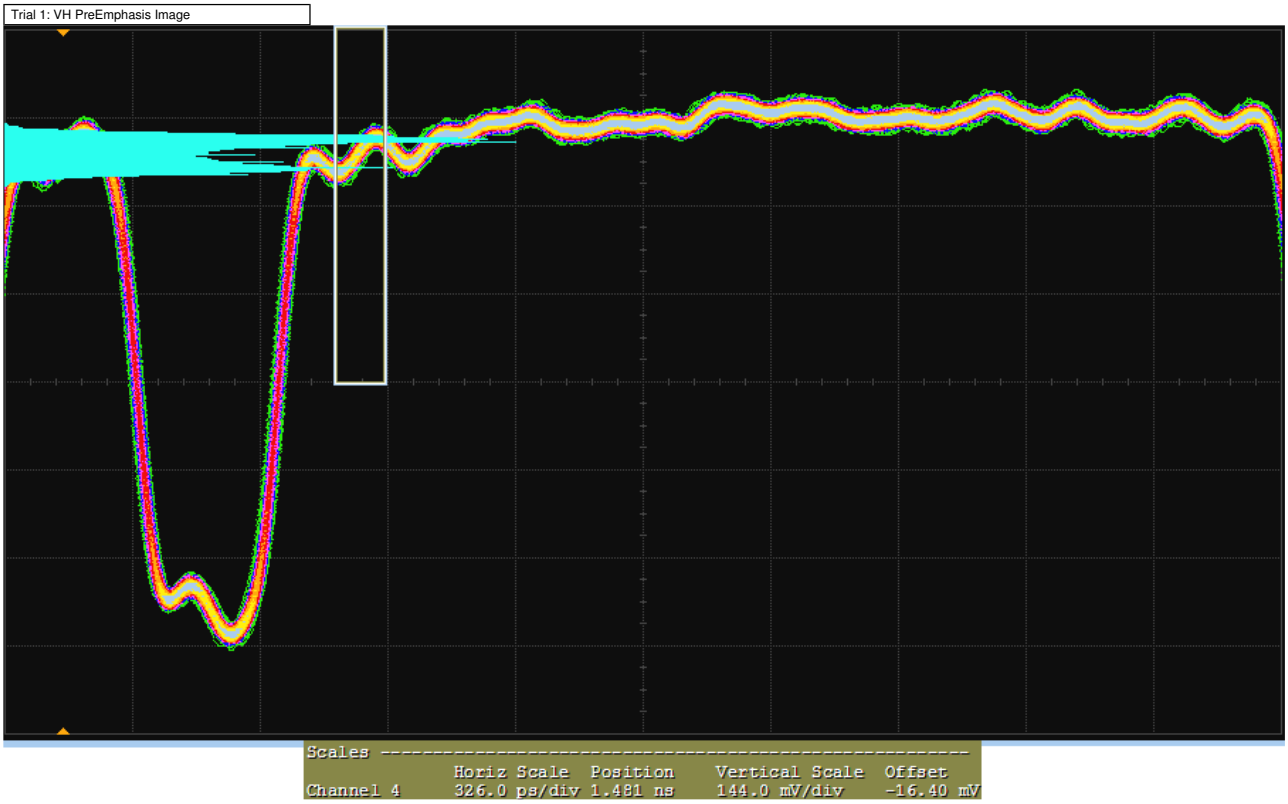
Trial 1: VL NonPreEmphasis Image



Trial 1: VL PreEmphasis Image

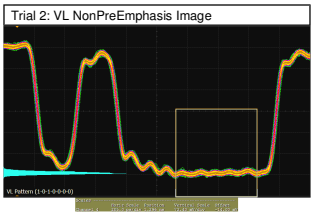



Trial 1: VH PreEmphasis Image

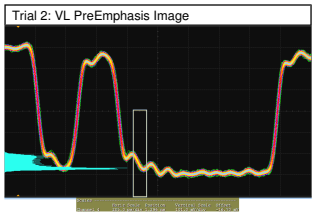



**Trial 2**

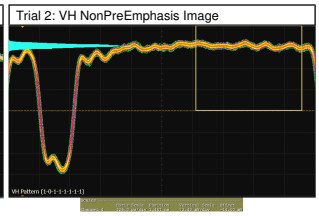
Trial 2: VL NonPreEmphasis Image



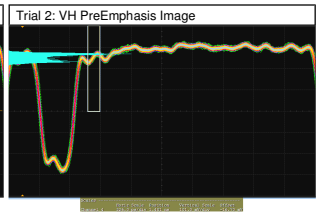
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image

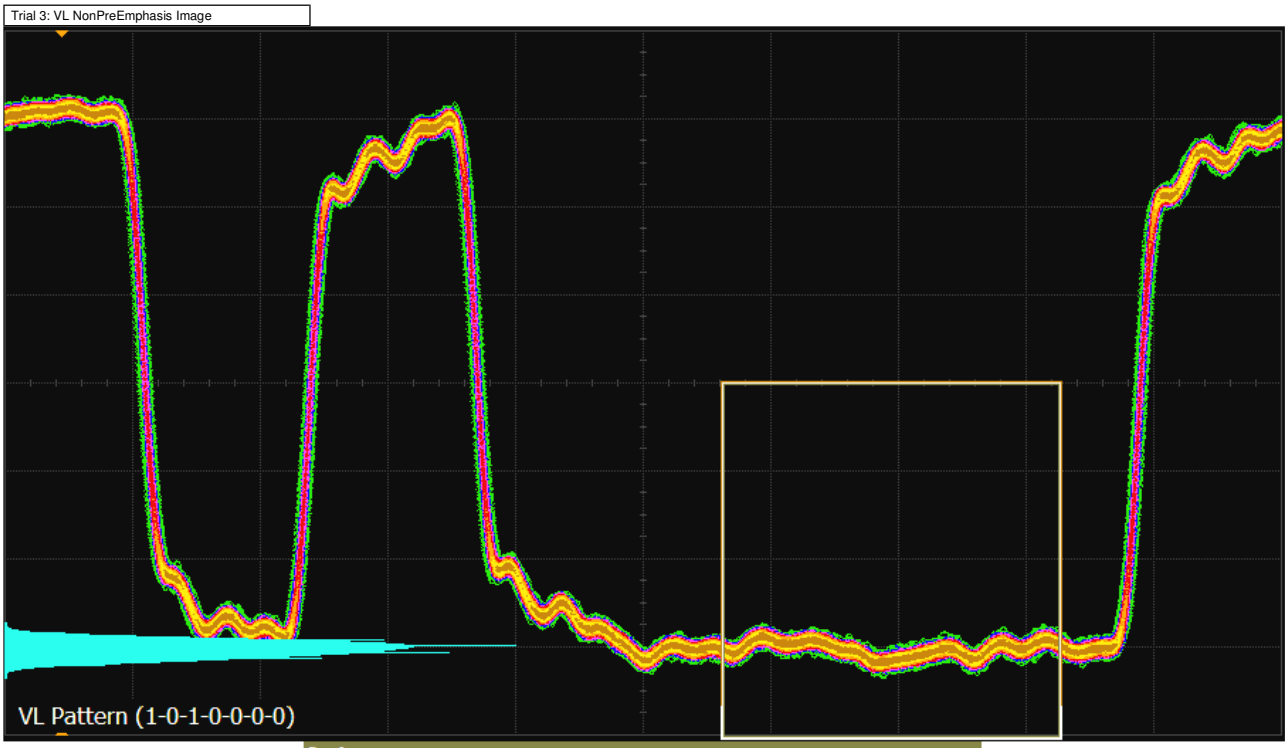


Trial 2: VH PreEmphasis Image



**Trial 3**

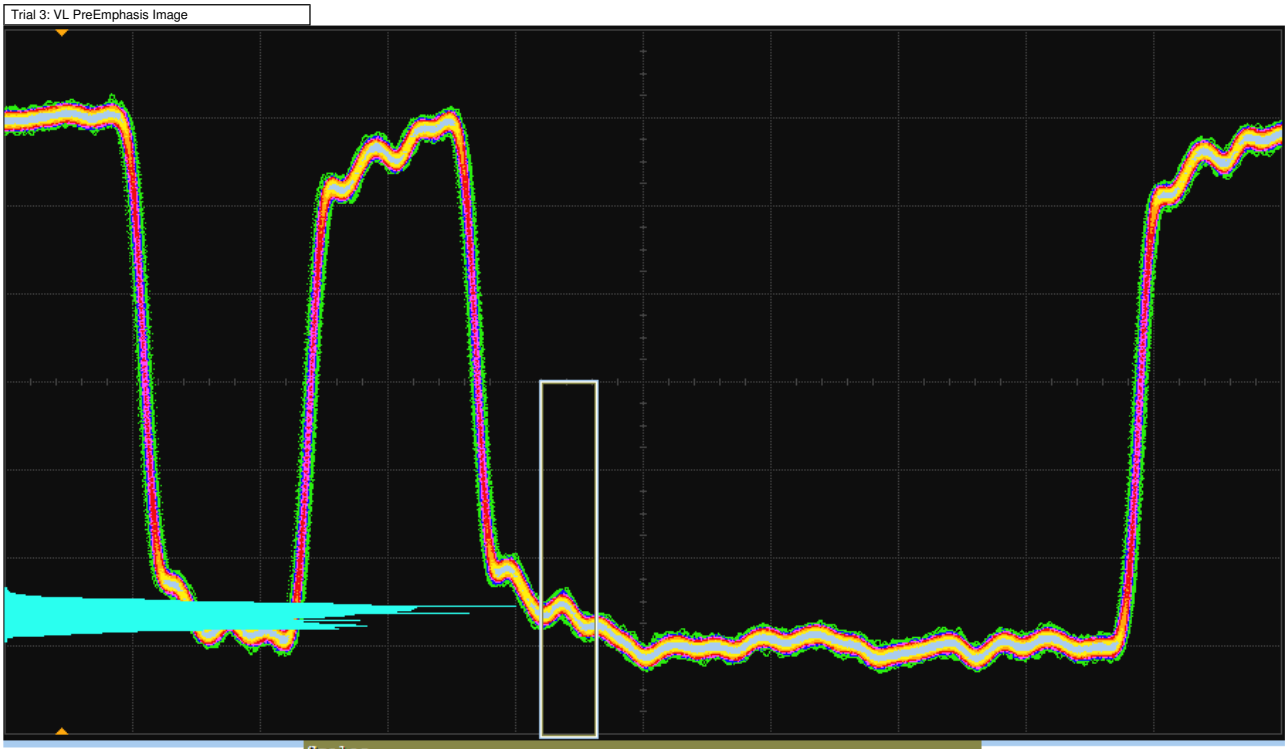
Trial 3: VL NonPreEmphasis Image




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 475.0 ps/div | 2.161 ns | 101.0 mV/div | -10.70 mV |

Trial 3: VL PreEmphasis Image



Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 475.0 ps/div | 2.161 ns | 146.0 mV/div | -10.80 mV |

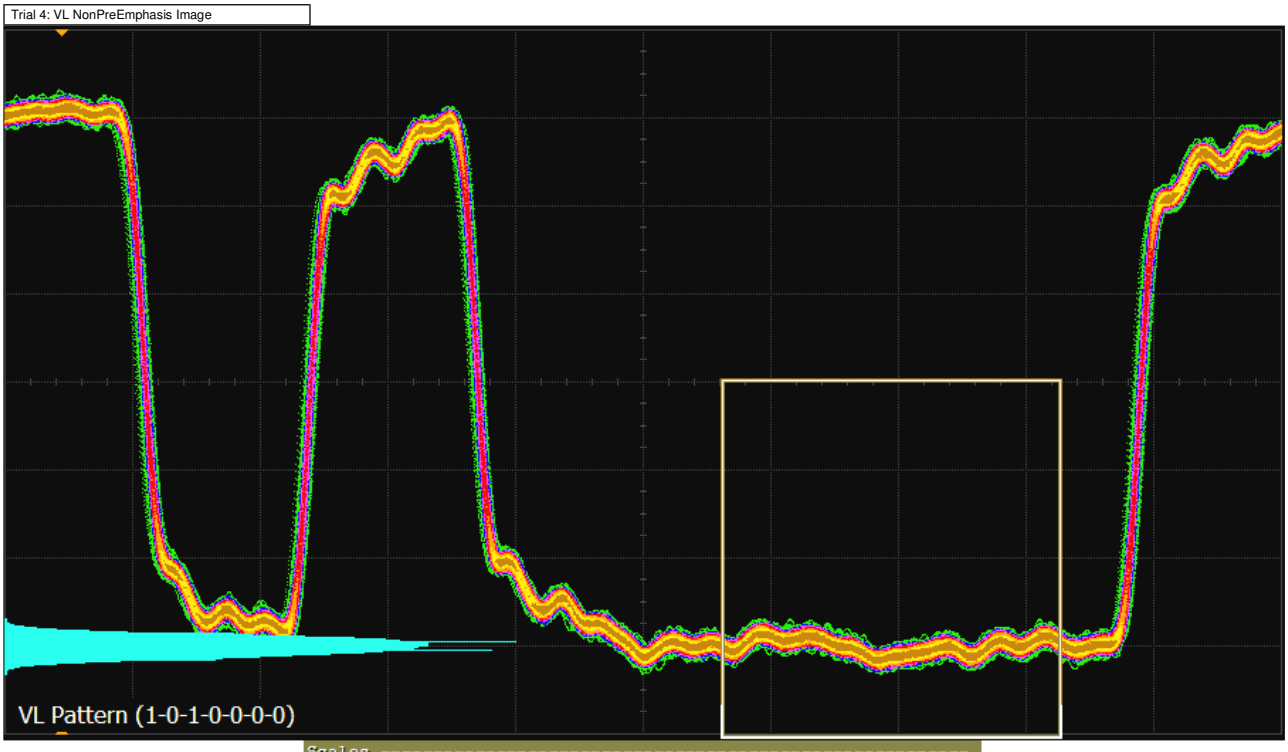
Trial 3: VH NonPreEmphasis Image


Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 543.0 ps/div | 2.469 ns | 101.0 mV/div | -10.70 mV |

Trial 4

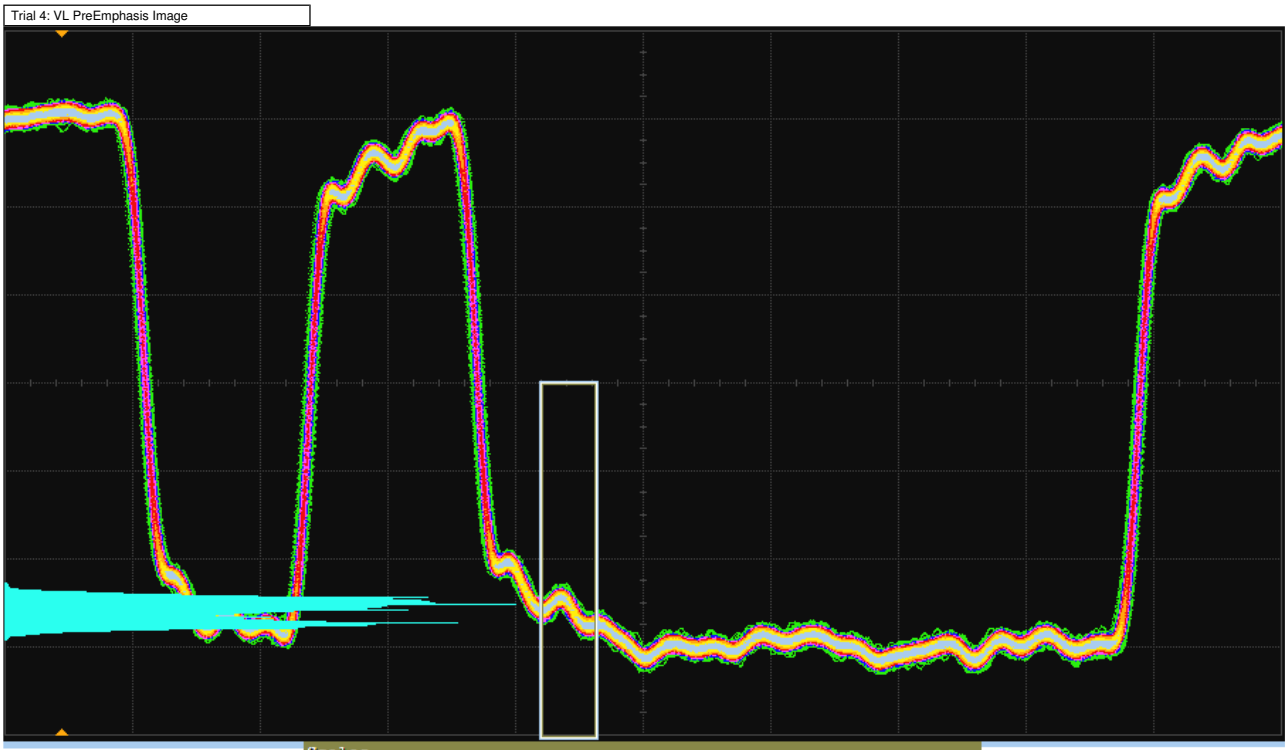
Trial 4: VL NonPreEmphasis Image




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 475.0 ps/div | 2.161 ns | 71.70 mV/div | -11.90 mV |

Trial 4: VL PreEmphasis Image



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 475.0 ps/div | 2.161 ns | 102.0 mV/div | -10.90 mV |

Trial 4: VH PreEmphasis Image

| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 543.0 ps/div | 2.469 ns | 102.0 mV/div | -10.90 mV |

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## Lane 0 - Non-Transition Voltage Range Measurement (Swing 1)

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

Test Summary: Pass

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

**Pass Limits:** >= 708 m | **Non-Transition Voltage Range (Worst of 2 Trials)** 818 m | **# Trials Run:** 2 | **Worst Trial:** Trial 2

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | VSwing Non-Transition Bit(Pre-emphasis 3) (V) | VSwing Non-Transition Bit(Pre-emphasis 0) | VSwing Non-Transition Bit(Pre-emphasis 1) | VSwing Non-Transition Bit(Pre-emphasis 2) | VSwing Non-Transition Bit (Max) | VSwing Non-Transition Bit (Min) | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *819.5 m* | *15.75 %* | *NaN V* | | | | | | | | | | |
| | *StdDev* | *1.945 m* | *299.6 m%* | *NaN V* | | | | | | | | | | |
| | *Range* | *2.751 m* | *423.7 m%* | *-Infinity V* | | | | | | | | | | |
| | *Min* | *818.1 m* | *15.54 %* | *Infinity V* | | | | | | | | | | |
| | *Max* | *820.8 m* | *15.96 %* | *-Infinity V* | | | | | | | | | | |
| | *Sum* | *1.639* | *31.50 %* | *0.000 V* | | | | | | | | | | |
| ✓ | Trial 1 | 821 m | 16.0% | (no value) | 608.543 mV | 499.512 mV | 689.765 mV | 689.765 mV | 499.512 mV | 2.7 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 2 (Worst) | 818 m | 15.5% | (no value) | 602.664 mV | 493.028 mV | 683.712 mV | 683.712 mV | 493.028 mV | 1.62 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |

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## Lane 1 - Non-Transition Voltage Range Measurement (Swing 1)

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

Test Summary: Pass

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

**Pass Limits:** >= 708 m | **Non-Transition Voltage Range (Worst of 2 Trials)** 1.118 | **# Trials Run:** 2 | **Worst Trial:** Trial 2

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | VSwing Non-Transition Bit(Pre-emphasis 3) (V) | VSwing Non-Transition Bit(Pre-emphasis 0) | VSwing Non-Transition Bit(Pre-emphasis 1) | VSwing Non-Transition Bit(Pre-emphasis 2) | VSwing Non-Transition Bit (Max) | VSwing Non-Transition Bit (Min) | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *1.122* | *58.47 %* | *NaN V* | | | | | | | | | | |
| | *StdDev* | *5.943 m* | *799.0 m%* | *NaN V* | | | | | | | | | | |
| | *Range* | *8.404 m* | *1.130 %* | *-Infinity V* | | | | | | | | | | |
| | *Min* | *1.118* | *57.91 %* | *Infinity V* | | | | | | | | | | |
| | *Max* | *1.126* | *59.04 %* | *-Infinity V* | | | | | | | | | | |
| | *Sum* | *2.244* | *116.9 %* | *0.000 V* | | | | | | | | | | |
| ✓ | Trial 1 | 1.126 | 59.0% | (no value) | 610.155 mV | 740.331 mV | 687.069 mV | 740.331 mV | 687.069 mV | 2.7 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 2 (Worst) | 1.118 | 57.9% | (no value) | 604.484 mV | 735.223 mV | 675.602 mV | 735.223 mV | 675.602 mV | 1.62 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |

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## Lane 2 - Non-Transition Voltage Range Measurement (Swing 1)

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

Test Summary: Pass

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

**Pass Limits:** >= 708 m | **Non-Transition Voltage Range (Worst of 2 Trials)** 900 m | **# Trials Run:** 2 | **Worst Trial:** Trial 2

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | VSwing Non-Transition Bit(Pre-emphasis 3) (V) | VSwing Non-Transition Bit(Pre-emphasis 0) | VSwing Non-Transition Bit(Pre-emphasis 1) | VSwing Non-Transition Bit(Pre-emphasis 2) | VSwing Non-Transition Bit (Max) | VSwing Non-Transition Bit (Min) | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *907.1 m* | *28.11 %* | *NaN V* | | | | | | | | | | |
| | *StdDev* | *9.531 m* | *1.398 %* | *NaN V* | | | | | | | | | | |
| | *Range* | *13.48 m* | *1.977 %* | *-Infinity V* | | | | | | | | | | |
| | *Min* | *900.4 m* | *27.12 %* | *Infinity V* | | | | | | | | | | |
| | *Max* | *913.8 m* | *29.10 %* | *-Infinity V* | | | | | | | | | | |
| | *Sum* | *1.814* | *56.21 %* | *0.000 V* | | | | | | | | | | |
| ✓ | Trial 1 | 914 m | 29.1% | (no value) | 621.816 mV | 604.781 mV | 568.237 mV | 604.781 mV | 568.237 mV | 2.7 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 2 (Worst) | 900 m | 27.1% | (no value) | 609.977 mV | 583.037 mV | 549.198 mV | 583.037 mV | 549.198 mV | 1.62 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |

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## Lane 3 - Non-Transition Voltage Range Measurement (Swing 1)

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

Test Summary: Pass

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

**Pass Limits:** >= 708 m | **Non-Transition Voltage Range (Worst of 2 Trials)** 1.222 | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | VSwing Non-Transition Bit(Pre-emphasis 3) (V) | VSwing Non-Transition Bit(Pre-emphasis 0) | VSwing Non-Transition Bit(Pre-emphasis 1) | VSwing Non-Transition Bit(Pre-emphasis 2) | VSwing Non-Transition Bit (Max) | VSwing Non-Transition Bit (Min) | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *1.224* | *72.95 %* | *NaN V* | | | | | | | | | | |
| | *StdDev* | *3.296 m* | *499.4 m%* | *NaN V* | | | | | | | | | | |
| | *Range* | *4.661 m* | *706.2 m%* | *-Infinity V* | | | | | | | | | | |
| | *Min* | *1.222* | *72.60 %* | *Infinity V* | | | | | | | | | | |
| | *Max* | *1.227* | *73.31 %* | *-Infinity V* | | | | | | | | | | |
| | *Sum* | *2.448* | *145.9 %* | *0.000 V* | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 1.222 | 72.6% | (no value) | 600.309 mV | 733.522 mV | 844.177 mV | 844.177 mV | 733.522 mV | 2.7 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 1.227 | 73.3% | (no value) | 596.950 mV | 732.199 mV | 844.786 mV | 844.786 mV | 732.199 mV | 1.62 Gbps | Swing 1 | Pre-emphasis 2 | SSC Disabled | Level 0 |

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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.

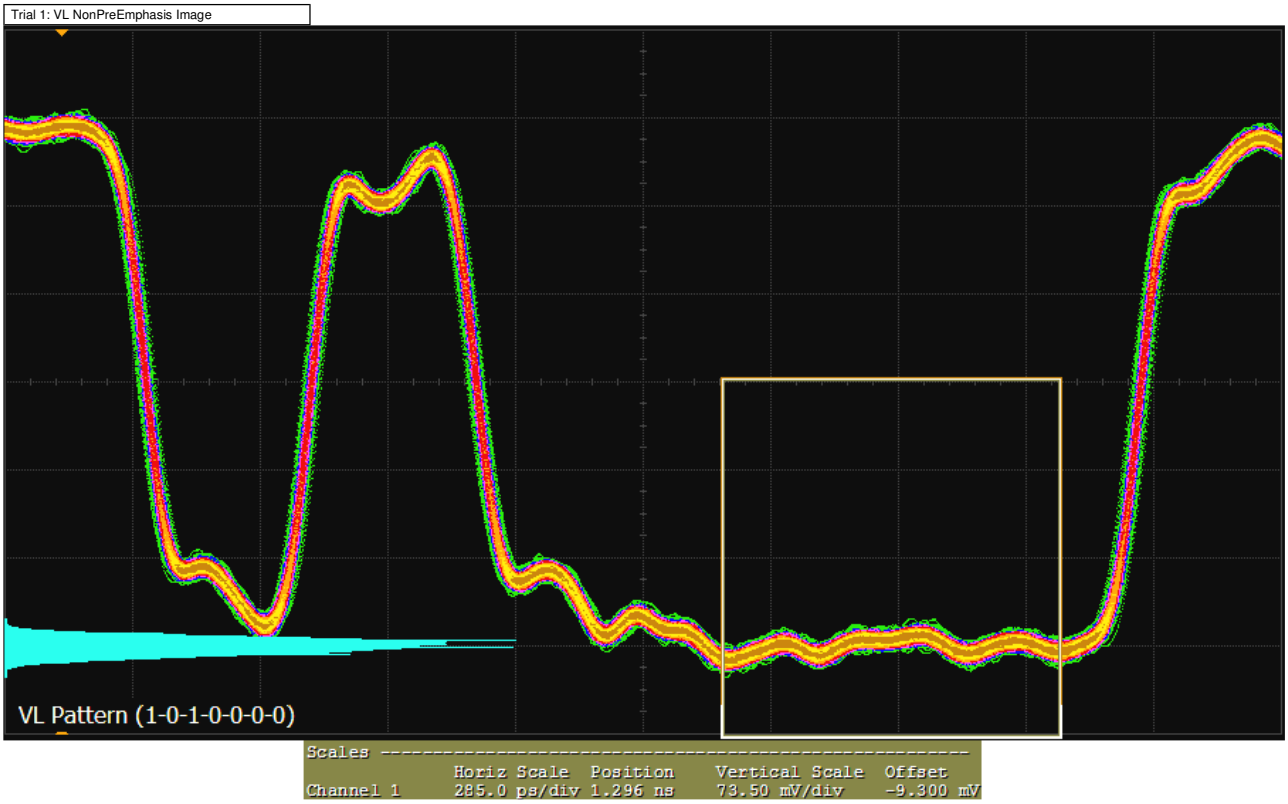
**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 3) - PreEmphasis(Pre-emphasis 2) (Worst of 2 Trials)** -235 mdB | **# Trials Run:** 2 | **Worst Trial:** Trial 2

**Overall Summary + details of 2 worst trials**

| Pass | 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 | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-154.3 mdB* | *-109.7 %* | | | | | | | | | | | | | |
| | *StdDev* | *114.0 mdB* | *7.115 %* | | | | | | | | | | | | | |
| | *Range* | *161.2 mdB* | *10.06 %* | | | | | | | | | | | | | |
| | *Min* | *-234.9 mdB* | *-114.7 %* | | | | | | | | | | | | | |
| | *Max* | *-73.71 mdB* | *-104.6 %* | | | | | | | | | | | | | |
| | *Sum* | *-308.6 mdB* | *-219.3 %* | | | | | | | | | | | | | |
| ✗ | Trial 1 | -74 mdB | **-104.6%** | (See image) | (See image) | (See image) | (See image) | 1000 | 840.505 mV | 739.274 mV | 1.115 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✗ | Trial 2 (Worst) | -235 mdB | **-114.7%** | (See image) | (See image) | (See image) | (See image) | 1000 | 961.052 mV | 723.691 mV | 2.464 dB | 1.62 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image

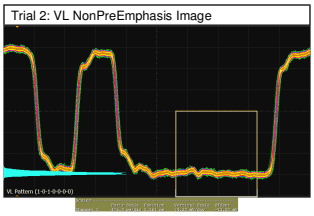


Trial 1: VL PreEmphasis Image

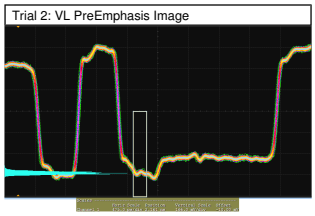

Trial 1: VH PreEmphasis Image


**Trial 2**

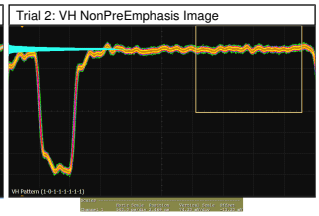
Trial 2: VL NonPreEmphasis Image



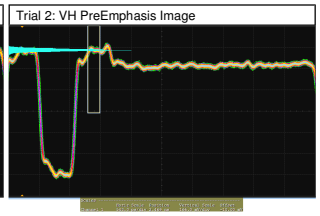
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



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## 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.

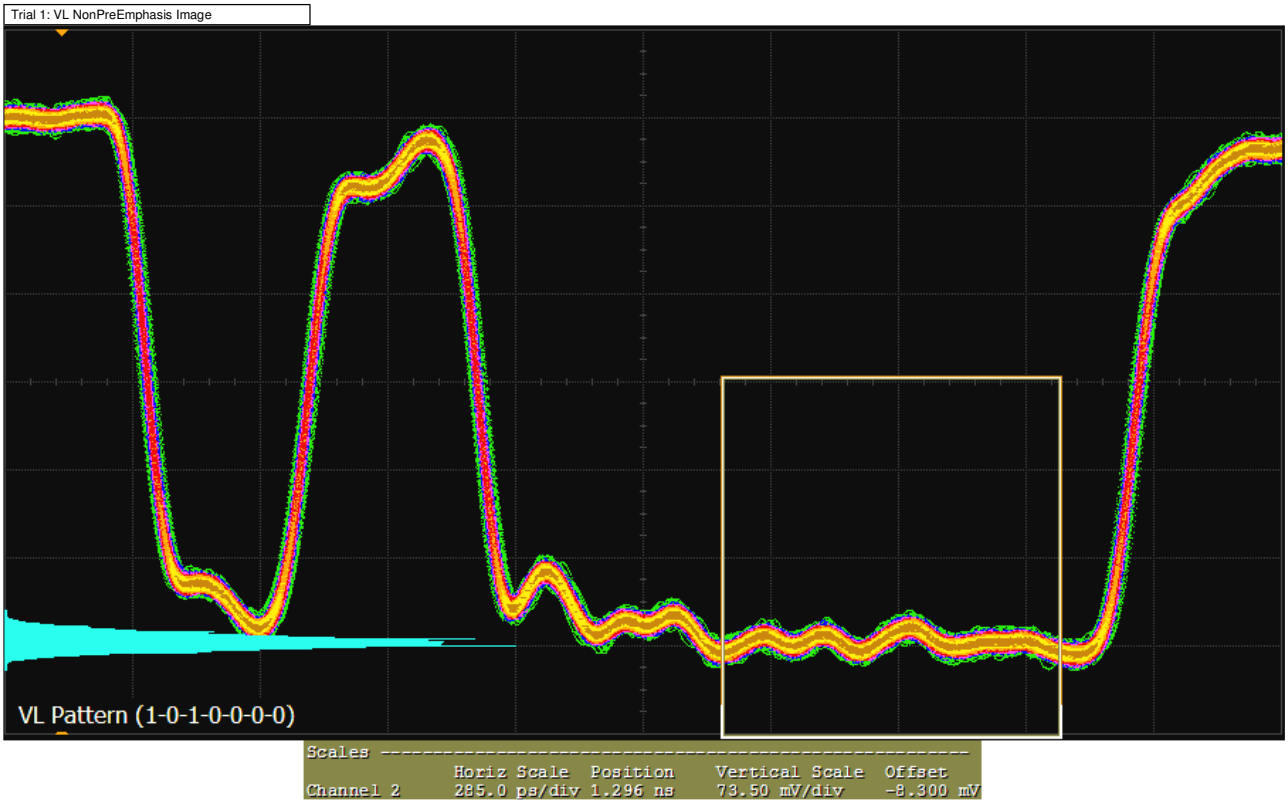
**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 3) - PreEmphasis(Pre-emphasis 2) (Worst of 2 Trials)** -3.200 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 2

**Overall Summary + details of 2 worst trials**

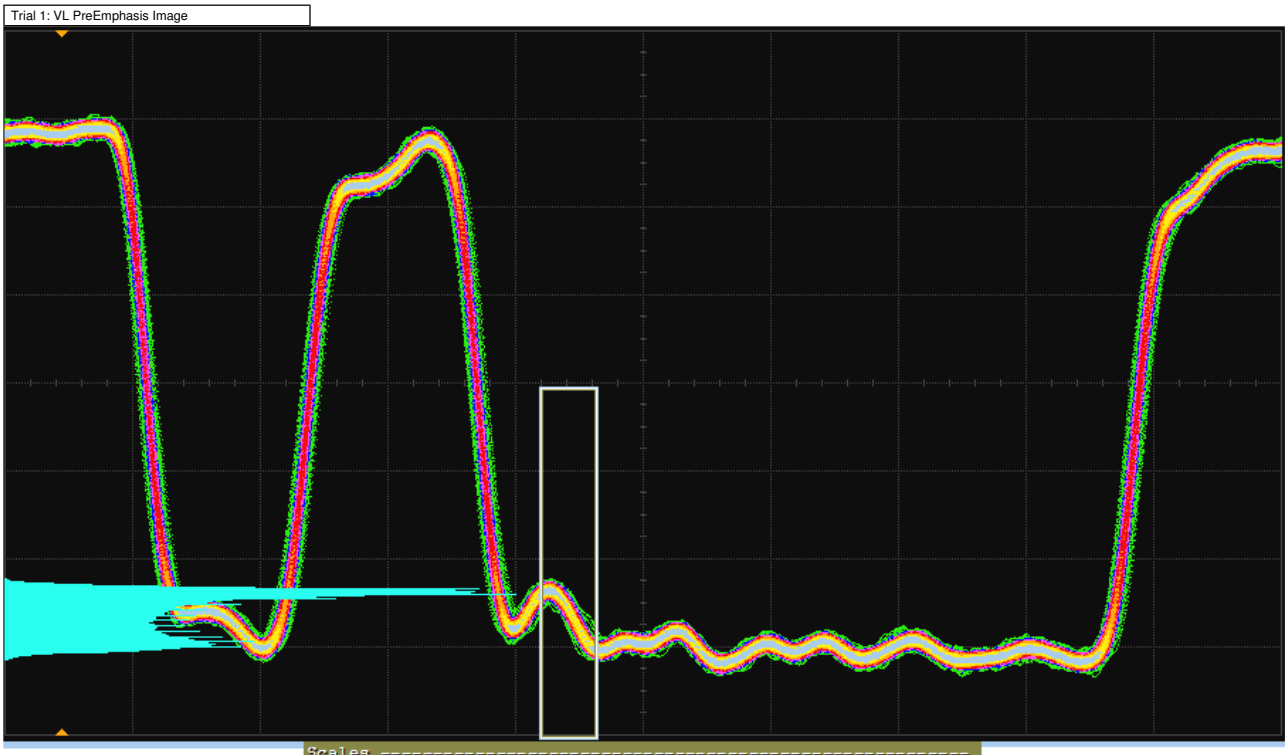
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-3.099 dB* | *-293.7 %* | | | | | | | | | | | | | |
| | *StdDev* | *142.7 mdB* | *8.927 %* | | | | | | | | | | | | | |
| | *Range* | *201.9 mdB* | *12.63 %* | | | | | | | | | | | | | |
| | *Min* | *-3.200 dB* | *-300.0 %* | | | | | | | | | | | | | |
| | *Max* | *-2.998 dB* | *-287.4 %* | | | | | | | | | | | | | |
| | *Sum* | *-6.197 dB* | *-587.4 %* | | | | | | | | | | | | | |
| ✗ | Trial 1 | -2.998 dB | **-287.4%** | (See image) | (See image) | (See image) | (See image) | 1000 | 786.676 mV | 920.058 mV | -1.360 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✗ | Trial 2 (Worst) | -3.200 dB | **-300.0%** | (See image) | (See image) | (See image) | (See image) | 1000 | 852.466 mV | 910.964 mV | -576 mdB | 1.62 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image



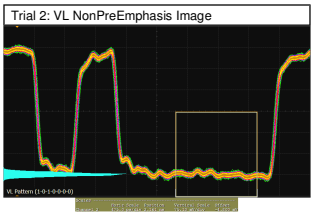
Trial 1: VL PreEmphasis Image



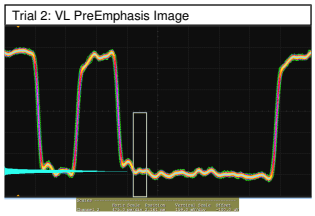

Trial 1: VH PreEmphasis Image


**Trial 2**

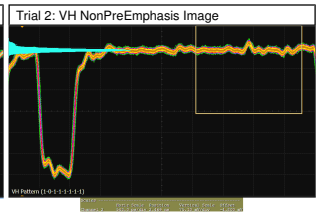
Trial 2: VL NonPreEmphasis Image



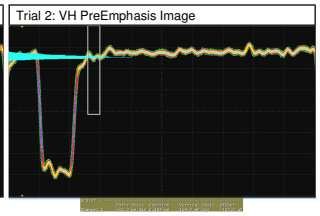
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



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## 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.

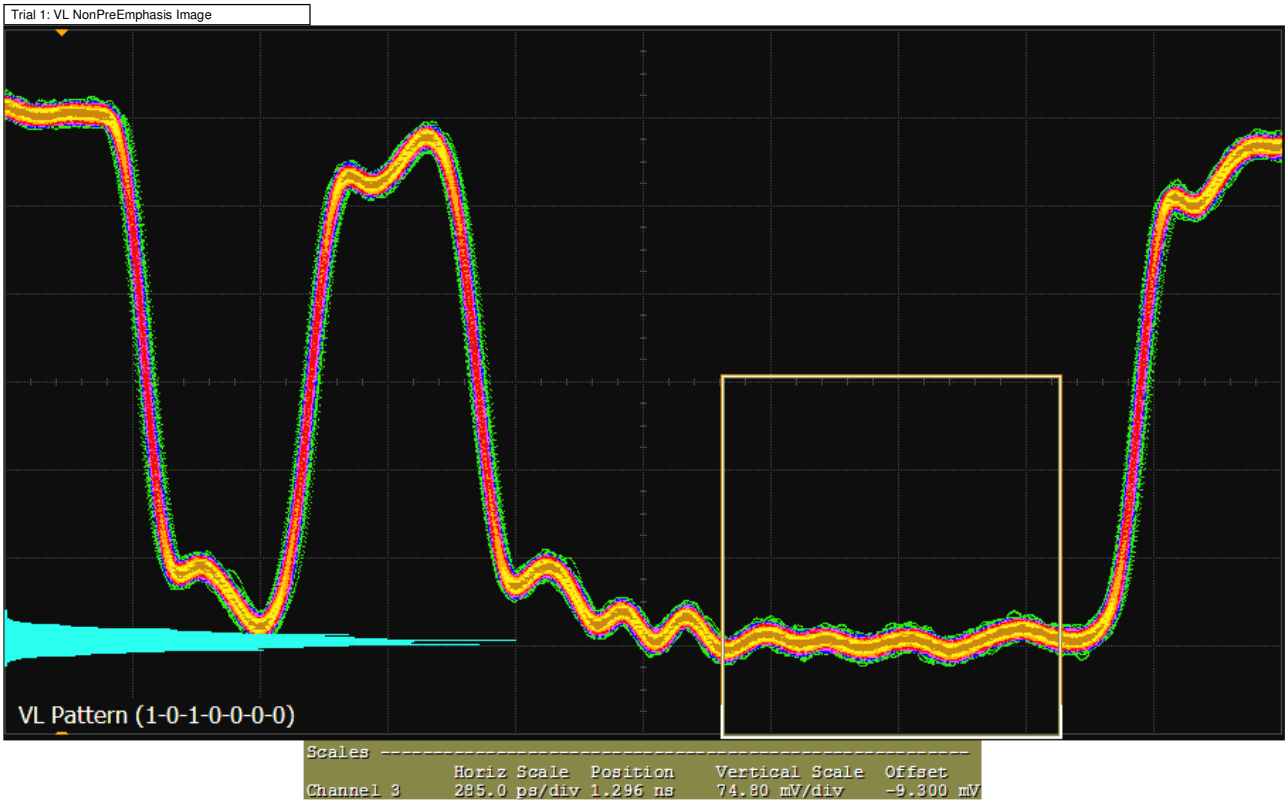
**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 3) - PreEmphasis(Pre-emphasis 2) (Worst of 2 Trials)** -5.641 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 2

**Overall Summary + details of 2 worst trials**

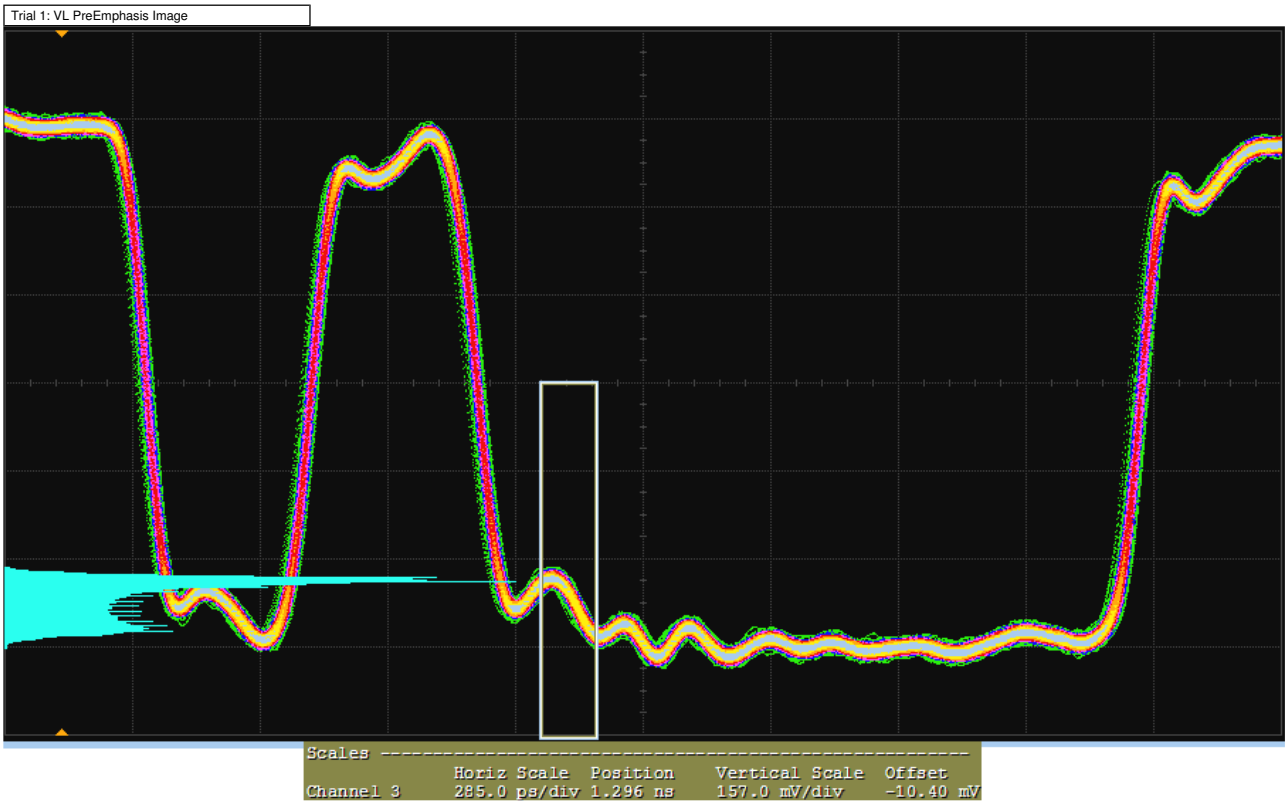
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *-5.553 dB* | *-447.1 %* | | | | | | | | | | | | | |
| | *StdDev* | *124.5 mdB* | *7.778 %* | | | | | | | | | | | | | |
| | *Range* | *176.1 mdB* | *11.00 %* | | | | | | | | | | | | | |
| | *Min* | *-5.641 dB* | *-452.6 %* | | | | | | | | | | | | | |
| | *Max* | *-5.465 dB* | *-441.6 %* | | | | | | | | | | | | | |
| | *Sum* | *-11.11 dB* | *-894.1 %* | | | | | | | | | | | | | |
| ✗ | Trial 1 | -5.465 dB | **-441.6%** | (See image) | (See image) | (See image) | (See image) | 1000 | 777.883 mV | 922.273 mV | -1.479 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✗ | Trial 2 (Worst) | -5.641 dB | **-452.6%** | (See image) | (See image) | (See image) | (See image) | 1000 | 830.194 mV | 902.707 mV | -727 mdB | 1.62 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |

**Trial 1**

Trial 1: VL NonPreEmphasis Image



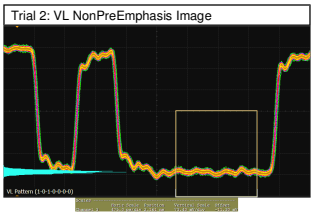
Trial 1: VL PreEmphasis Image



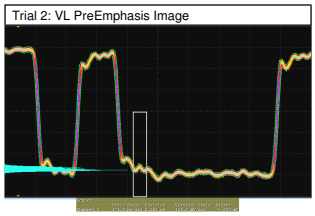

Trial 1: VH PreEmphasis Image


**Trial 2**

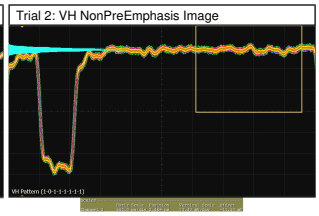
Trial 2: VL NonPreEmphasis Image



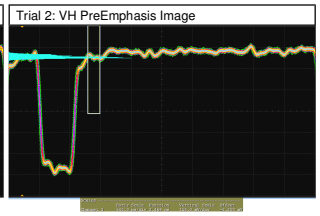
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



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## 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: Pass

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

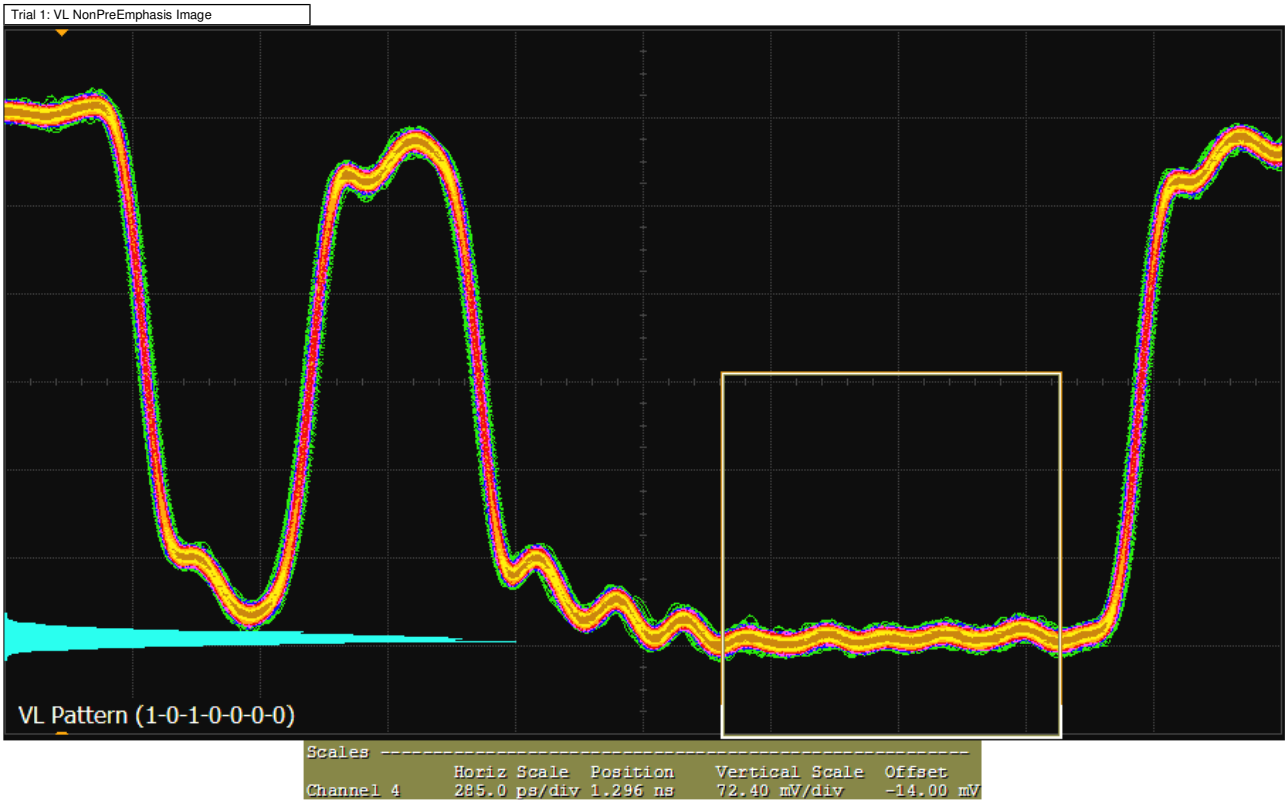
**Pass Limits:** >= 1.600 dB | **PreEmphasis(Pre-emphasis 3) - PreEmphasis(Pre-emphasis 2) (Worst of 2 Trials)** 3.149 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

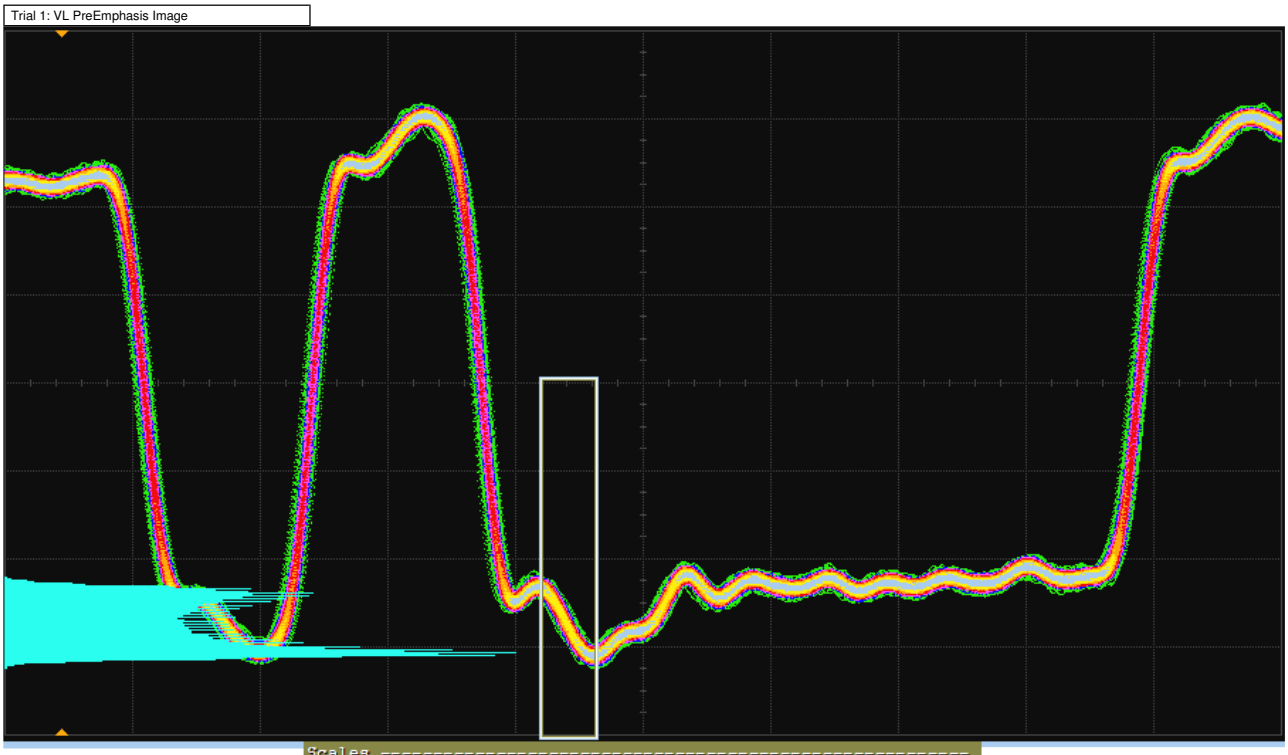
| Pass | Trial | Actual Value | Margin | VL NonPreEmphasis Image | VL PreEmphasis Image | VH NonPreEmphasis Image | VH PreEmphasis Image | Number of UI | VSwing PreEmphasis (Transition Bit) | VSwing PreEmphasis (Non Transition Bit) | PreEmphasis Result | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *3.179 dB* | *98.69 %* | | | | | | | | | | | | | |
| | *StdDev* | *42.59 mdB* | *2.652 %* | | | | | | | | | | | | | |
| | *Range* | *60.23 mdB* | *3.750 %* | | | | | | | | | | | | | |
| | *Min* | *3.149 dB* | *96.81 %* | | | | | | | | | | | | | |
| | *Max* | *3.209 dB* | *100.6 %* | | | | | | | | | | | | | |
| | *Sum* | *6.358 dB* | *197.4 %* | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 3.149 dB | 96.8% | (See image) | (See image) | (See image) | (See image) | 1000 | 899.839 mV | 735.382 mV | 1.753 dB | 2.7 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 3.209 dB | 100.6% | (See image) | (See image) | (See image) | (See image) | 1000 | 952.414 mV | 735.085 mV | 2.250 dB | 1.62 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |

**Trial 1**

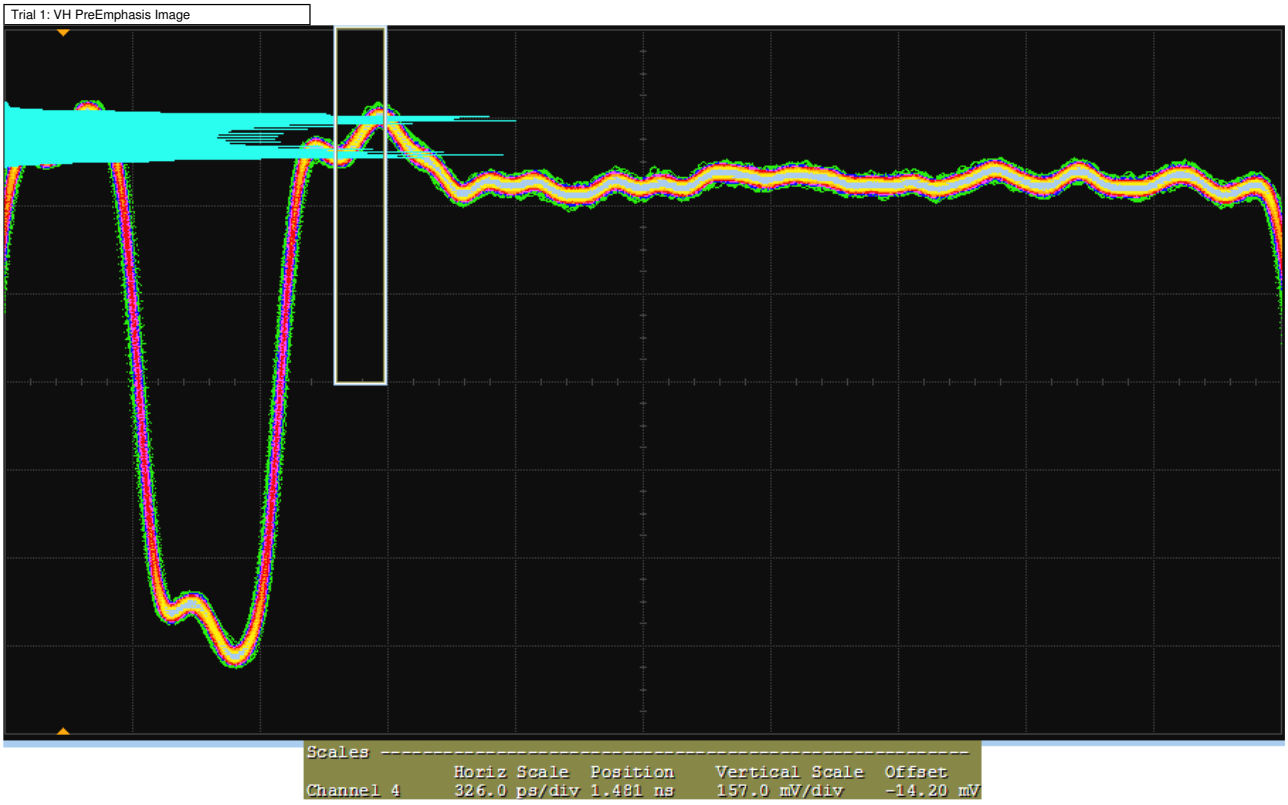
Trial 1: VL NonPreEmphasis Image



Trial 1: VL PreEmphasis Image

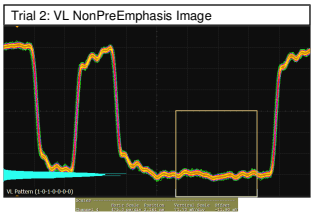



Trial 1: VH PreEmphasis Image

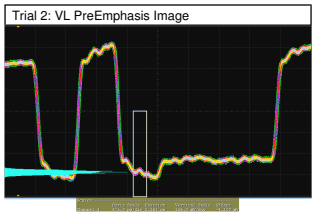



**Trial 2**

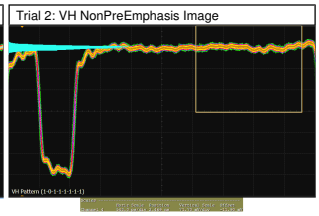
Trial 2: VL NonPreEmphasis Image



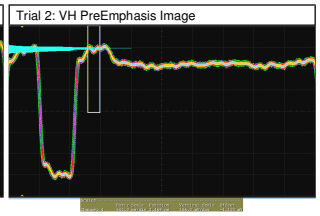
Trial 2: VL PreEmphasis Image



Trial 2: VH NonPreEmphasis Image



Trial 2: VH PreEmphasis Image



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## Lane 0 - Non-Transition Voltage Range Measurement (Swing 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.

**Pass Limits:** >= 850 m | **Non-Transition Voltage Range (Worst of 2 Trials)** 814 m | **# Trials Run:** 2 | **Worst Trial:** Trial 2

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | VSwing Non-Transition Bit(Pre-emphasis 0) | VSwing Non-Transition Bit(Pre-emphasis 1) | VSwing Non-Transition Bit(Pre-emphasis 2) | VSwing Non-Transition Bit(Pre-emphasis 3) | VSwing Non-Transition Bit (Max) | VSwing Non-Transition Bit (Min) | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *816.0 m* | *-4.000 %* | | | | | | | | | | | |
| | *StdDev* | *3.232 m* | *332.8 m%* | | | | | | | | | | | |
| | *Range* | *4.571 m* | *470.6 m%* | | | | | | | | | | | |
| | *Min* | *813.7 m* | *-4.235 %* | | | | | | | | | | | |
| | *Max* | *818.3 m* | *-3.765 %* | | | | | | | | | | | |
| | *Sum* | *1.632* | *-8.000 %* | | | | | | | | | | | |
| ✗ | Trial 1 | 818 m | **-3.8%** | 429.059 mV | 351.082 mV | 491.273 mV | 739.274 mV | 739.274 mV | 351.082 mV | 2.7 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✗ | Trial 2 (Worst) | 814 m | **-4.2%** | 422.883 mV | 344.096 mV | 483.965 mV | 723.691 mV | 723.691 mV | 344.096 mV | 1.62 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |

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## Lane 1 - Non-Transition Voltage Range Measurement (Swing 0)

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

Test Summary: Pass

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

**Pass Limits:** >= 850 m | **Non-Transition Voltage Range (Worst of 2 Trials)** 1.140 | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | VSwing Non-Transition Bit(Pre-emphasis 0) | VSwing Non-Transition Bit(Pre-emphasis 1) | VSwing Non-Transition Bit(Pre-emphasis 2) | VSwing Non-Transition Bit(Pre-emphasis 3) | VSwing Non-Transition Bit (Max) | VSwing Non-Transition Bit (Min) | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *1.142* | *34.35 %* | | | | | | | | | | | |
| | *StdDev* | *2.846 m* | *332.8 m%* | | | | | | | | | | | |
| | *Range* | *4.025 m* | *470.6 m%* | | | | | | | | | | | |
| | *Min* | *1.140* | *34.12 %* | | | | | | | | | | | |
| | *Max* | *1.144* | *34.59 %* | | | | | | | | | | | |
| | *Sum* | *2.284* | *68.71 %* | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 1.140 | 34.1% | 430.084 mV | 519.236 mV | 490.382 mV | 920.058 mV | 920.058 mV | 490.382 mV | 2.7 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 1.144 | 34.6% | 425.355 mV | 515.472 mV | 486.701 mV | 910.964 mV | 910.964 mV | 486.701 mV | 1.62 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |

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## Lane 2 - Non-Transition Voltage Range Measurement (Swing 0)

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

Test Summary: Pass

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

**Pass Limits:** >= 850 m | **Non-Transition Voltage Range (Worst of 2 Trials)** 945 m | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | VSwing Non-Transition Bit(Pre-emphasis 0) | VSwing Non-Transition Bit(Pre-emphasis 1) | VSwing Non-Transition Bit(Pre-emphasis 2) | VSwing Non-Transition Bit(Pre-emphasis 3) | VSwing Non-Transition Bit (Max) | VSwing Non-Transition Bit (Min) | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *951.6 m* | *11.94 %* | | | | | | | | | | | |
| | *StdDev* | *9.555 m* | *1.081 %* | | | | | | | | | | | |
| | *Range* | *13.51 m* | *1.529 %* | | | | | | | | | | | |
| | *Min* | *944.8 m* | *11.18 %* | | | | | | | | | | | |
| | *Max* | *958.3 m* | *12.71 %* | | | | | | | | | | | |
| | *Sum* | *1.903* | *23.88 %* | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 945 m | 11.2% | 442.925 mV | 429.295 mV | 418.478 mV | 922.273 mV | 922.273 mV | 418.478 mV | 2.7 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 958 m | 12.7% | 423.088 mV | 416.393 mV | 405.453 mV | 902.707 mV | 902.707 mV | 405.453 mV | 1.62 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |

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## Lane 3 - Non-Transition Voltage Range Measurement (Swing 0)

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

Test Summary: Pass

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

**Pass Limits:** >= 850 m | **Non-Transition Voltage Range (Worst of 2 Trials)** 1.231 | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | VSwing Non-Transition Bit(Pre-emphasis 0) | VSwing Non-Transition Bit(Pre-emphasis 1) | VSwing Non-Transition Bit(Pre-emphasis 2) | VSwing Non-Transition Bit(Pre-emphasis 3) | VSwing Non-Transition Bit (Max) | VSwing Non-Transition Bit (Min) | BitRate | Level | PreEmphasis | SSC | PostCursor2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *1.233* | *45.06 %* | | | | | | | | | | | |
| | *StdDev* | *2.956 m* | *332.8 m%* | | | | | | | | | | | |
| | *Range* | *4.180 m* | *470.6 m%* | | | | | | | | | | | |
| | *Min* | *1.231* | *44.82 %* | | | | | | | | | | | |
| | *Max* | *1.235* | *45.29 %* | | | | | | | | | | | |
| | *Sum* | *2.465* | *90.12 %* | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 1.231 | 44.8% | 417.935 mV | 514.278 mV | 597.463 mV | 735.382 mV | 735.382 mV | 514.278 mV | 2.7 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |
| ✓ | Trial 2 | 1.235 | 45.3% | 415.061 mV | 512.476 mV | 595.386 mV | 735.085 mV | 735.085 mV | 512.476 mV | 1.62 Gbps | Swing 0 | Pre-emphasis 3 | SSC Disabled | Level 0 |

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## Lane 0 - Non-PreEmphasis Level Test (Swing 3/ Swing 2)

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

Test Summary: Pass

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

**Pass Limits:** [800.0 mdB to 6.0000 dB] | **Lane 0 Non-PreEmphasis Level Test (Swing 3/Swing 2) (Worst of 2 Trials)** 1.8316 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 1

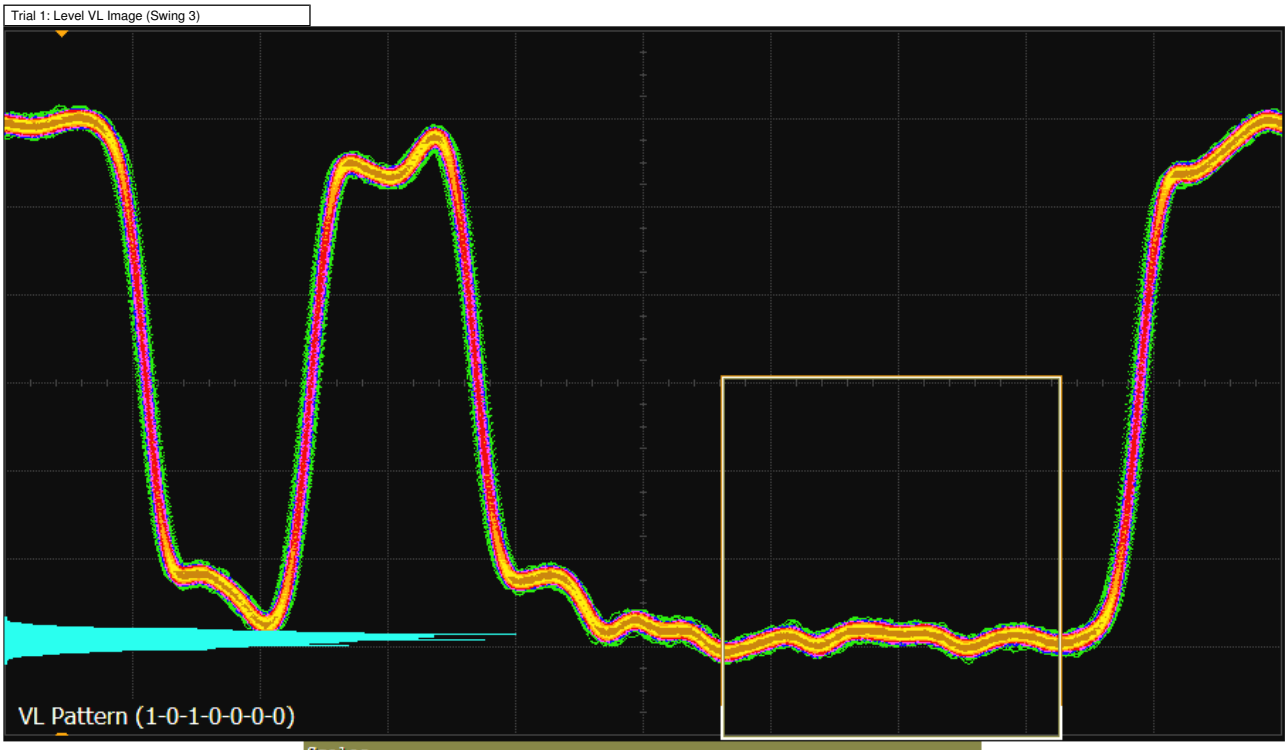
**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | Level VH Image (Swing 3) | Level VL Image (Swing 3) | Level VH Image (Swing 2) | Level VL Image (Swing 2) | Number of UI | VH Trigger Pattern | VL Trigger Pattern | VTop (Swing 3) | VBase (Swing 3) | VSwing (Swing 3) | VTop (Swing 2) | VBase (Swing 2) | VSwing (Swing 2) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | Bit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *1.836 dB* | *19.92 %* | | | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *6.005 mdB* | *115.6 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Range* | *8.492 mdB* | *163.5 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Min* | *1.832 dB* | *19.84 %* | | | | | | | | | | | | | | | | | | | | |
| | *Max* | *1.840 dB* | *20.00 %* | | | | | | | | | | | | | | | | | | | | |
| | *Sum* | *3.672 dB* | *39.84 %* | | | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 1.8316 dB | 19.8% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 491.530 mV | -520.786 mV | 1.012316 V | 397.440 mV | -422.410 mV | 819.850 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gb |
| ✓ | Trial 2 | 1.8401 dB | 20.0% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 491.759 mV | -514.567 mV | 1.006326 V | 396.092 mV | -418.110 mV | 814.202 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.6 Gb |

**Trial 1**

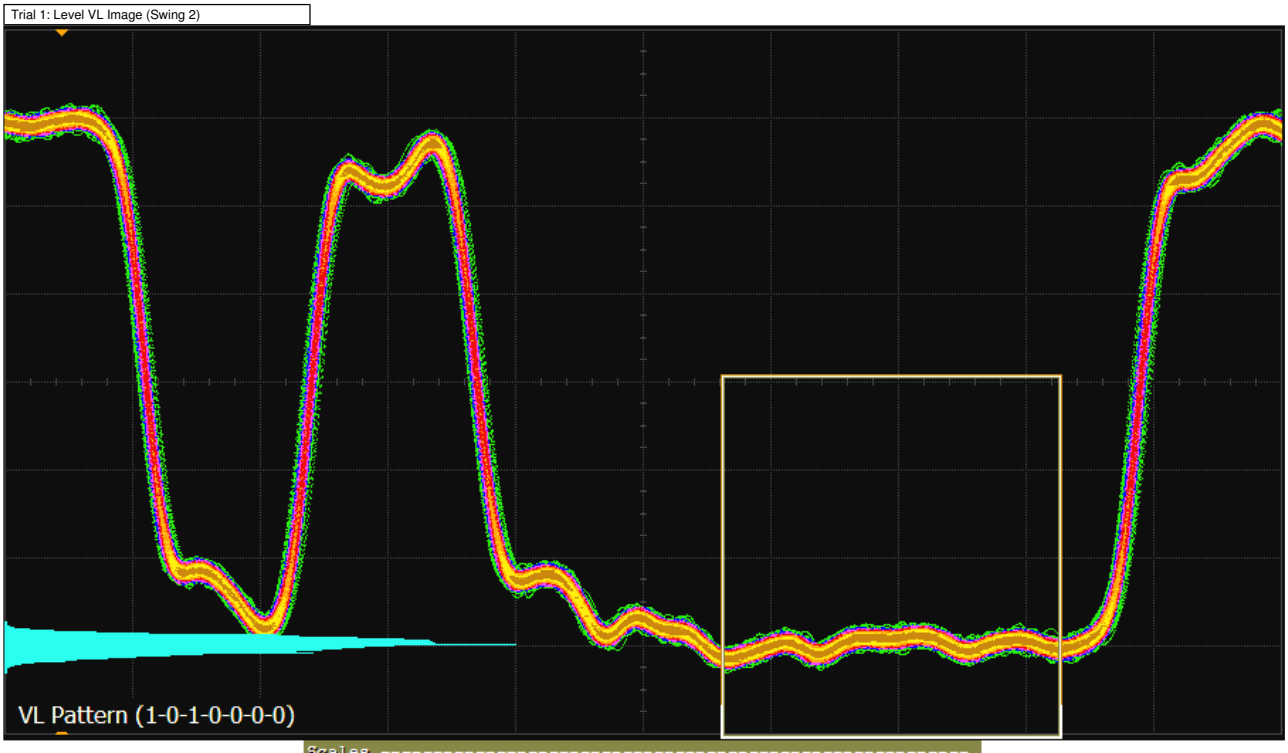
Trial 1: Level VH Image (Swing 3)

Trial 1: Level VL Image (Swing 3)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 285.0 ps/div | 1.296 ns | 171.0 mV/div | -11.40 mV |

Trial 1: Level VL Image (Swing 2)

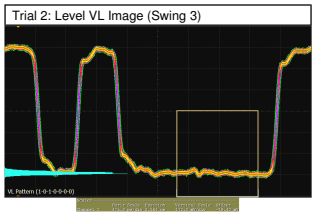



| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 285.0 ps/div | 1.296 ns | 140.0 mV/div | -11.10 mV |

**Trial 2**

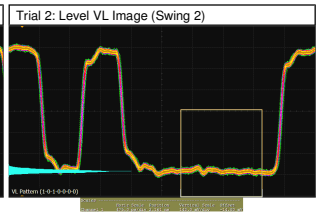
Trial 2: Level VH Image (Swing 3)

Trial 2: Level VL Image (Swing 3)



Trial 2: Level VH Image (Swing 2)

Trial 2: Level VL Image (Swing 2)



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

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

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

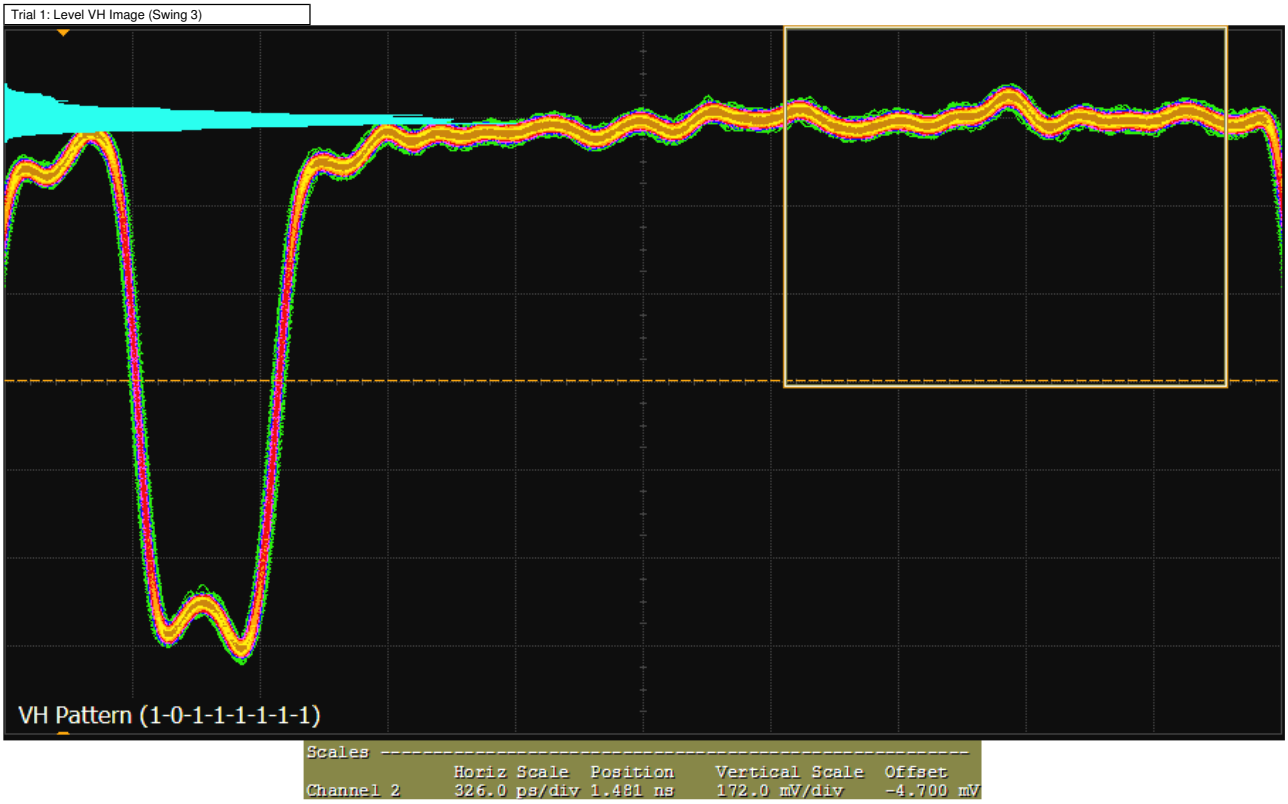
**Pass Limits:** [800.0 mdB to 6.0000 dB] | **Lane 1 Non-PreEmphasis Level Test (Swing 3/Swing 2) (Worst of 2 Trials)** 1.8212 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 1

**Overall Summary + details of 2 worst trials**

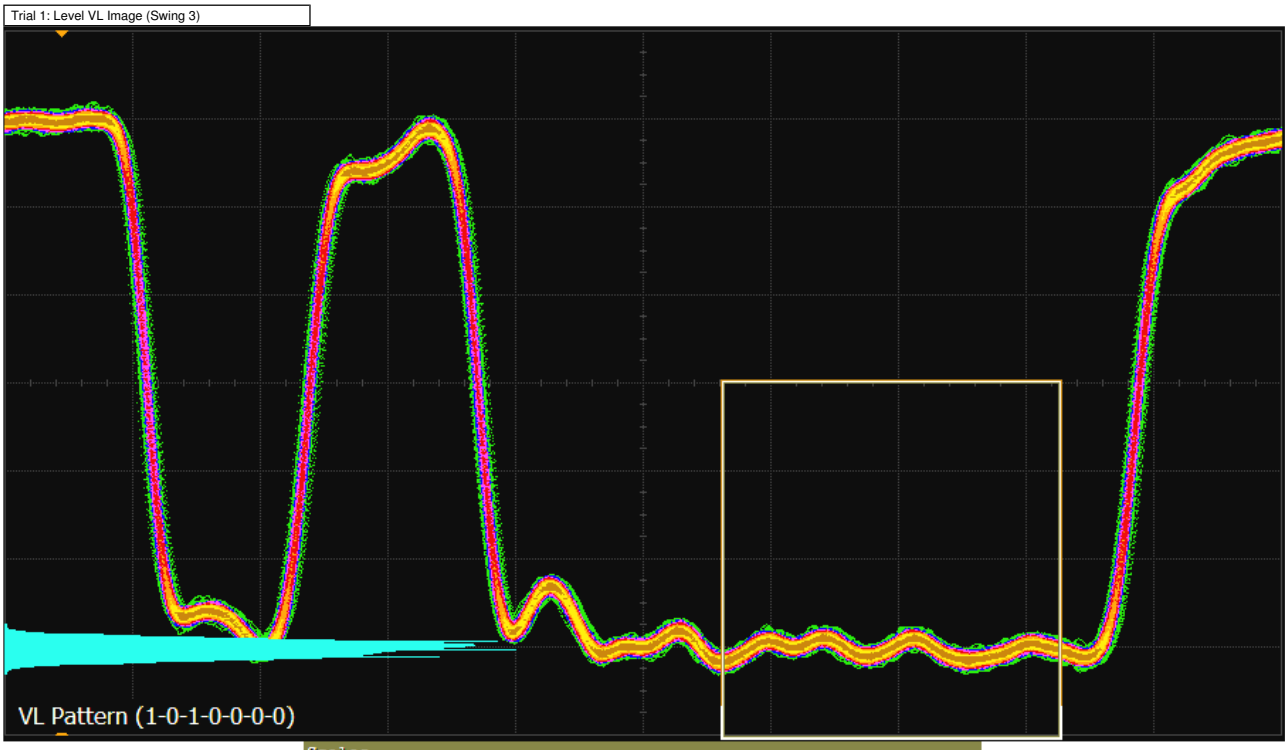
| Pass | Trial | Actual Value | Margin | Level VH Image (Swing 3) | Level VL Image (Swing 3) | Level VH Image (Swing 2) | Level VL Image (Swing 2) | Number of UI | VH Trigger Pattern | VL Trigger Pattern | VTop (Swing 3) | VBase (Swing 3) | VSwing (Swing 3) | VTop (Swing 2) | VBase (Swing 2) | VSwing (Swing 2) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | Bit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *1.832 dB* | *19.85 %* | | | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *15.71 mdB* | *301.9 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Range* | *22.22 mdB* | *426.9 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Min* | *1.821 dB* | *19.64 %* | | | | | | | | | | | | | | | | | | | | |
| | *Max* | *1.843 dB* | *20.07 %* | | | | | | | | | | | | | | | | | | | | |
| | *Sum* | *3.665 dB* | *39.70 %* | | | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 1.8212 dB | 19.6% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 496.328 mV | -514.672 mV | 1.010999 V | 401.220 mV | -418.548 mV | 819.768 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gb |
| ✓ | Trial 2 | 1.8434 dB | 20.1% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 494.402 mV | -512.761 mV | 1.007163 V | 398.058 mV | -416.513 mV | 814.571 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.6 Gb |

**Trial 1**

Trial 1: Level VH Image (Swing 3)

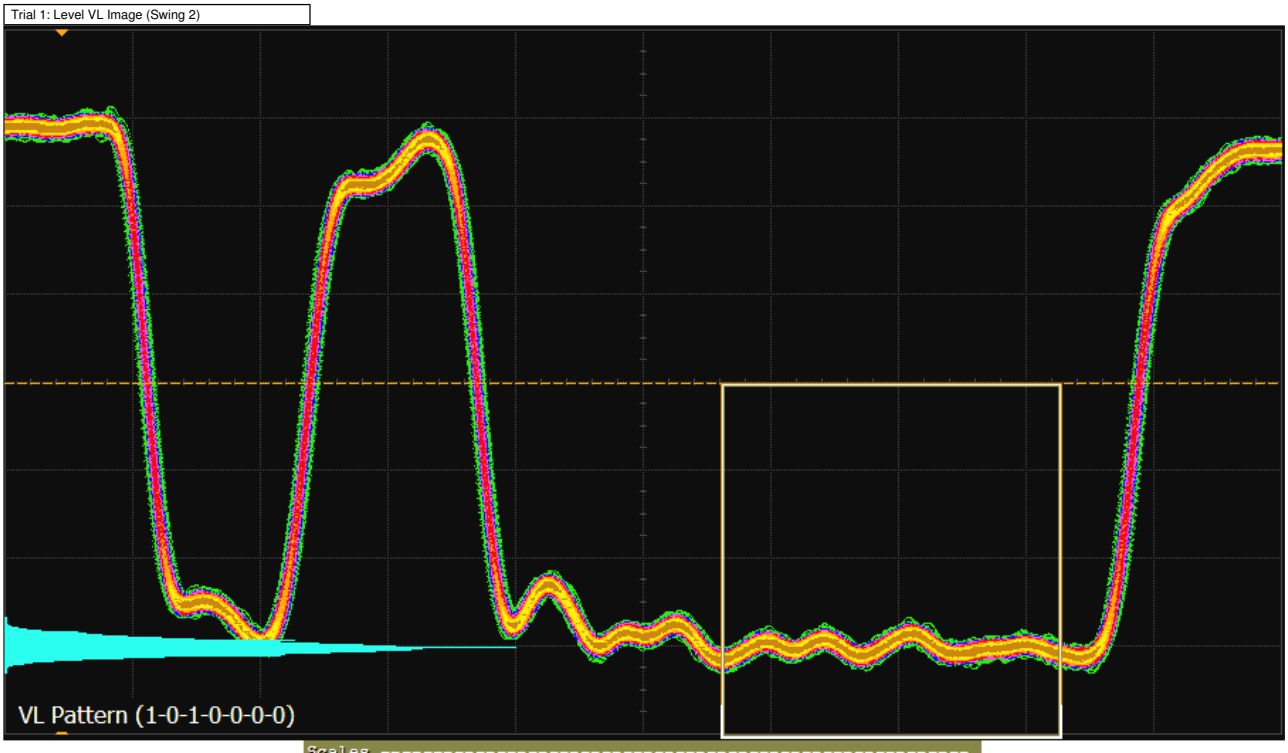


Trial 1: Level VL Image (Swing 3)




```
Scales ------------------------------------------------------
                Horiz Scale  Position    Vertical Scale  Offset
Channel 2       285.0 ps/div 1.296 ns    172.0 mV/div    -4.700 mV
```

Trial 1: Level VL Image (Swing 2)

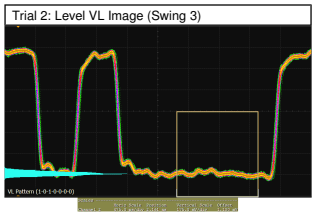



```
Scales ------------------------------------------------------
                Horiz Scale  Position    Vertical Scale  Offset
Channel 2       285.0 ps/div 1.296 ns    142.0 mV/div    -4.600 mV
```

**Trial 2**

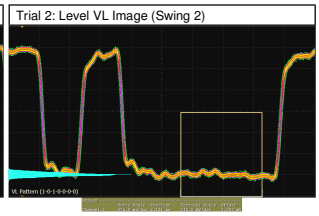
Trial 2: Level VH Image (Swing 3)

Trial 2: Level VL Image (Swing 3)



Trial 2: Level VH Image (Swing 2)

Trial 2: Level VL Image (Swing 2)



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

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

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

**Pass Limits:** [800.0 mdB to 6.0000 dB] | **Lane 2 Non-PreEmphasis Level Test (Swing 3/Swing 2) (Worst of 2 Trials)** 1.6330 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 1

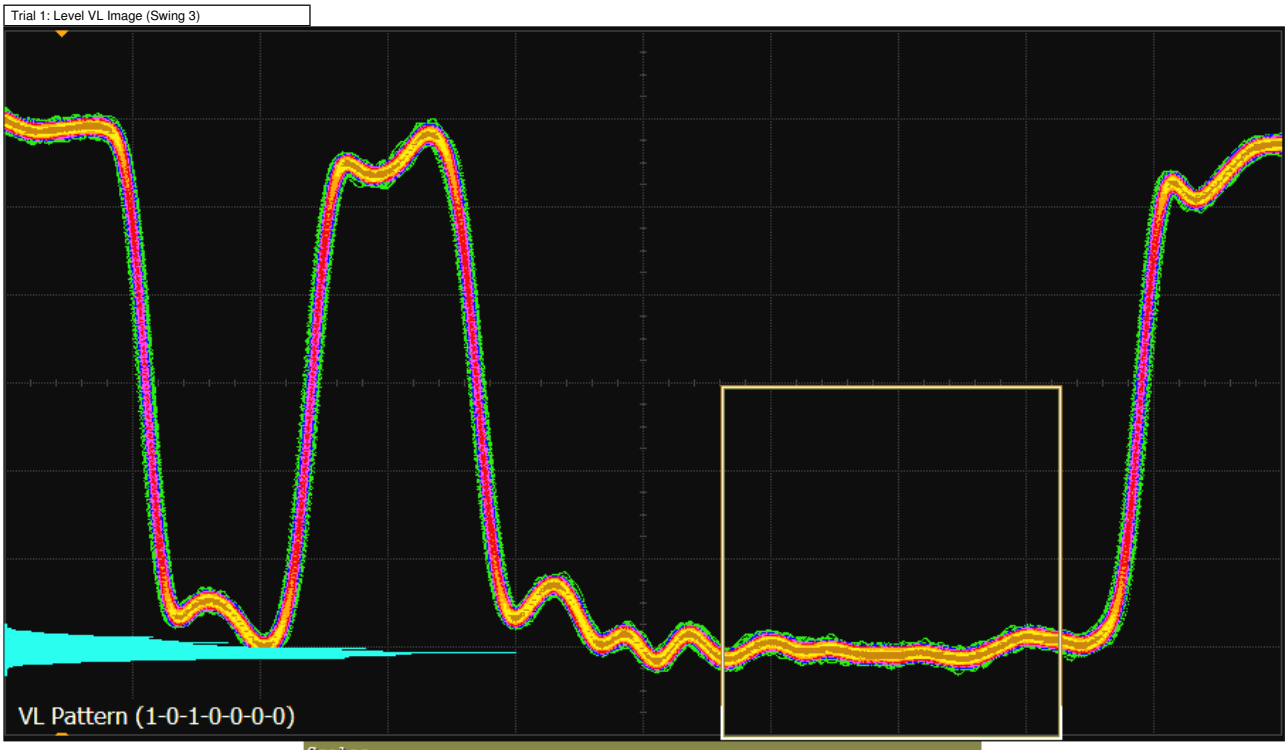
**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | Level VH Image (Swing 3) | Level VL Image (Swing 3) | Level VH Image (Swing 2) | Level VL Image (Swing 2) | Number of UI | VH Trigger Pattern | VL Trigger Pattern | VTop (Swing 3) | VBase (Swing 3) | VSwing (Swing 3) | VTop (Swing 2) | VBase (Swing 2) | VSwing (Swing 2) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | Bit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *1.688 dB* | *17.07 %* | | | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *77.48 mdB* | *1.489 %* | | | | | | | | | | | | | | | | | | | | |
| | *Range* | *109.6 mdB* | *2.106 %* | | | | | | | | | | | | | | | | | | | | |
| | *Min* | *1.633 dB* | *16.02 %* | | | | | | | | | | | | | | | | | | | | |
| | *Max* | *1.743 dB* | *18.13 %* | | | | | | | | | | | | | | | | | | | | |
| | *Sum* | *3.375 dB* | *34.14 %* | | | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 (Worst) | 1.6330 dB | 16.0% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 484.229 mV | -516.502 mV | 1.000731 V | 401.228 mV | -427.992 mV | 829.219 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gb |
| ✓ | Trial 2 | 1.7425 dB | 18.1% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 488.305 mV | -507.674 mV | 995.978 mV | 398.274 mV | -416.661 mV | 814.935 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.6 Gb |

**Trial 1**

Trial 1: Level VH Image (Swing 3)

Trial 1: Level VL Image (Swing 3)



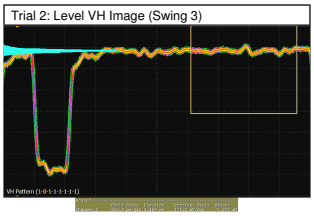

```
Scales ------------------------------------------------------
                Horiz Scale  Position    Vertical Scale  Offset
Channel 3       285.0 ps/div 1.296 ns    171.0 mV/div    -3.400 mV
```

Trial 1: Level VL Image (Swing 2)

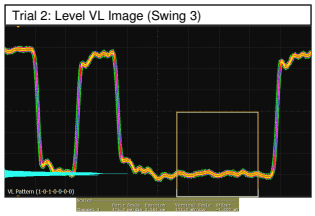

```
Scales ------------------------------------------------------
                Horiz Scale  Position    Vertical Scale  Offset
Channel 3       285.0 ps/div 1.296 ns    141.0 mV/div    -8.400 mV
```

**Trial 2**

Trial 2: Level VH Image (Swing 3)

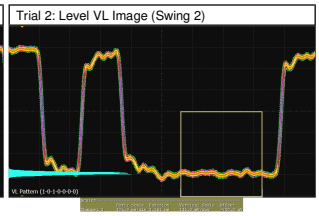


Trial 2: Level VL Image (Swing 3)



Trial 2: Level VH Image (Swing 2)

Trial 2: Level VL Image (Swing 2)



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

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

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

**Pass Limits:** [800.0 mdB to 6.0000 dB] | **Lane 3 Non-PreEmphasis Level Test (Swing 3/Swing 2) (Worst of 2 Trials)** 1.8759 dB | **# Trials Run:** 2 | **Worst Trial:** Trial 2

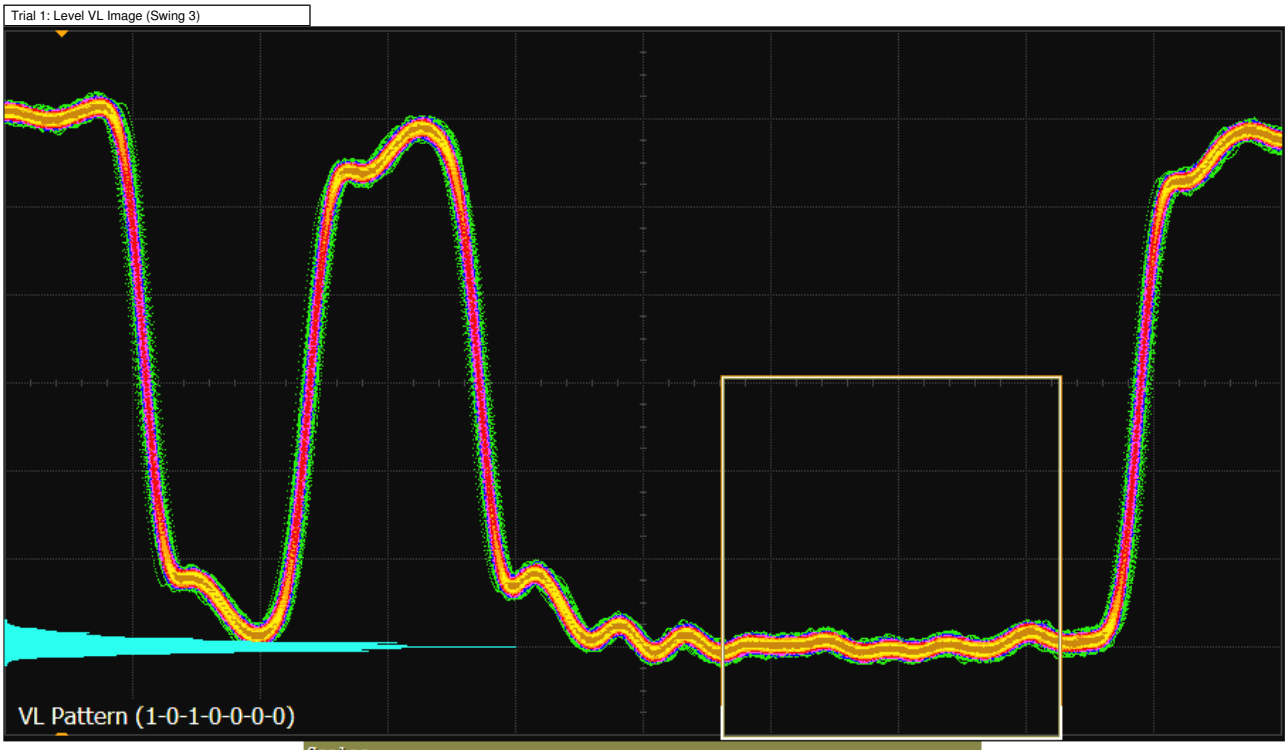
**Overall Summary + details of 2 worst trials**

| Pass | Trial | Actual Value | Margin | Level VH Image (Swing 3) | Level VL Image (Swing 3) | Level VH Image (Swing 2) | Level VL Image (Swing 2) | Number of UI | VH Trigger Pattern | VL Trigger Pattern | VTop (Swing 3) | VBase (Swing 3) | VSwing (Swing 3) | VTop (Swing 2) | VBase (Swing 2) | VSwing (Swing 2) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | Bit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *1.903 dB* | *21.22 %* | | | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *38.77 mdB* | *745.2 m%* | | | | | | | | | | | | | | | | | | | | |
| | *Range* | *54.83 mdB* | *1.054 %* | | | | | | | | | | | | | | | | | | | | |
| | *Min* | *1.876 dB* | *20.69 %* | | | | | | | | | | | | | | | | | | | | |
| | *Max* | *1.931 dB* | *21.74 %* | | | | | | | | | | | | | | | | | | | | |
| | *Sum* | *3.807 dB* | *42.43 %* | | | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 1.9307 dB | 21.7% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 495.407 mV | -522.932 mV | 1.018339 V | 395.694 mV | -419.681 mV | 815.375 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 2.7 Gb |
| ✓ | Trial 2 (Worst) | 1.8759 dB | 20.7% | (See image) | (See image) | (See image) | (See image) | 1000 | 10111111 | 1010000 | 491.964 mV | -518.567 mV | 1.010531 V | 395.436 mV | -418.812 mV | 814.248 mV | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.6 Gb |

**Trial 1**

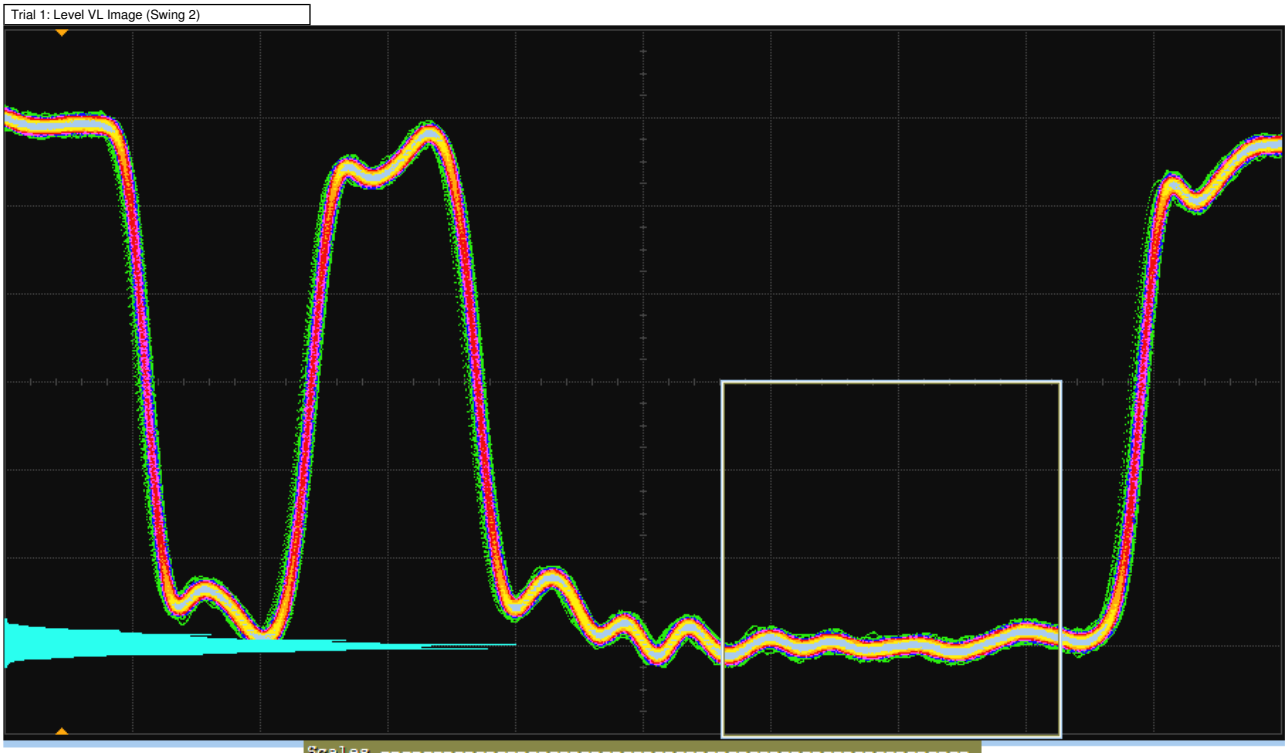
Trial 1: Level VH Image (Swing 3)

Trial 1: Level VL Image (Swing 3)




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 4 | 285.0 ps/div | 1.296 ns | 169.0 mV/div | -22.90 mV |

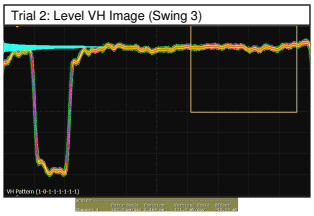
Trial 1: Level VL Image (Swing 2)



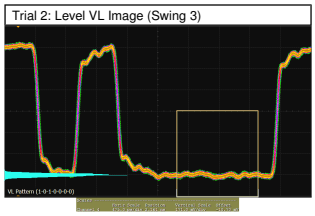
| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 3 | 285.0 ps/div | 1.296 ns | 157.0 mV/div | -10.40 mV |

**Trial 2**

Trial 2: Level VH Image (Swing 3)

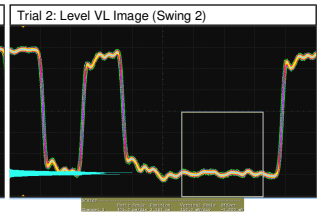


Trial 2: Level VL Image (Swing 3)



Trial 2: Level VH Image (Swing 2)

Trial 2: Level VL Image (Swing 2)



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## Lane 0 - Total Jitter Test (Low BitRate)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass

Test Description: To evaluate the total jitter accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

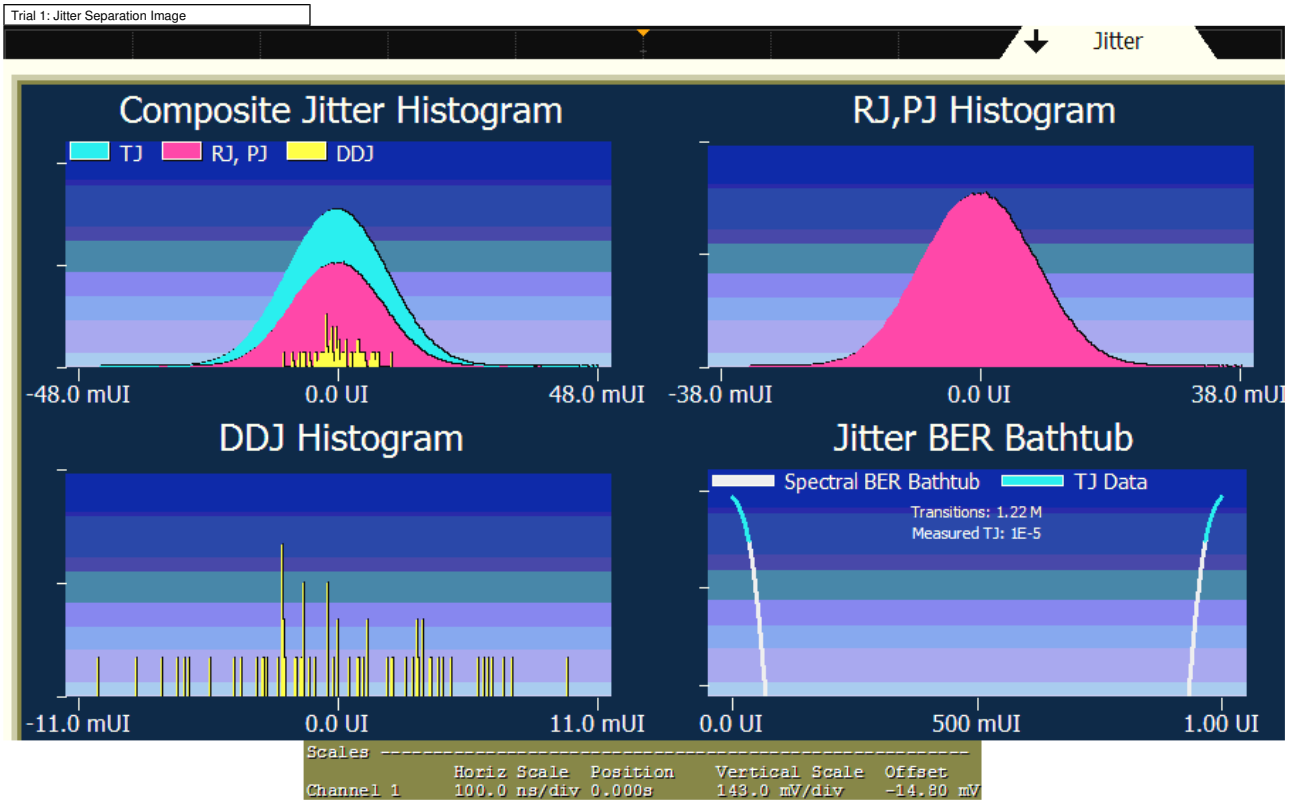
**Pass Limits:** <= 270.000 mUI | **Lane 0 Total Jitter Test (Low BitRate) (Worst of 4 Trials)** 99.200 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 3

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Total Jitter (TJ) | Total Jitter (TJ) in ps | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *98.45 mUI* | *63.54 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *544.7 µUI* | *201.7 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *1.300 mUI* | *481.5 m%* | | | | | | | | | | | | | | | | | | |
| | *Min* | *97.90 mUI* | *63.26 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *99.20 mUI* | *63.74 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *393.8 mUI* | *254.1 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 98.400 mUI | 63.6% | (See image) | 1.00000000 M | 98.4 mUI | 60.7397 ps | 4.3 mUI | 9.7 mUI | 18.1 mUI | 6.7 mUI | 17.6 mUI | 20.0 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | |
| ✓ | Trial 2 | 98.300 mUI | 63.6% | (See image) | 1.00000000 M | 98.3 mUI | 60.6789 ps | 4.3 mUI | 10.3 mUI | 18.0 mUI | 6.7 mUI | 17.4 mUI | 19.1 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | |
| ✓ | Trial 3 (Worst) | 99.200 mUI | 63.3% | (See image) | 1.00000000 M | 99.2 mUI | 61.2345 ps | 4.2 mUI | 9.2 mUI | 17.3 mUI | 6.8 mUI | 19.0 mUI | 19.0 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | |
| ✓ | Trial 4 | 97.900 mUI | 63.7% | (See image) | 1.00000000 M | 97.9 mUI | 60.4320 ps | 4.5 mUI | 8.8 mUI | 18.1 mUI | 6.7 mUI | 19.6 mUI | 19.6 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps | |

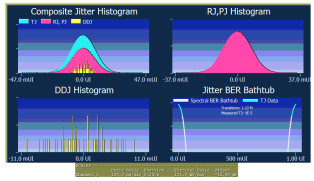
**Trial 1**

Trial 1: Jitter Separation Image



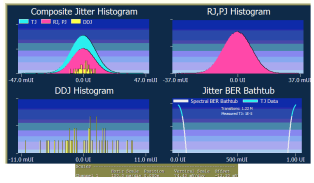

**Trial 2**

Trial 2: Jitter Separation Image



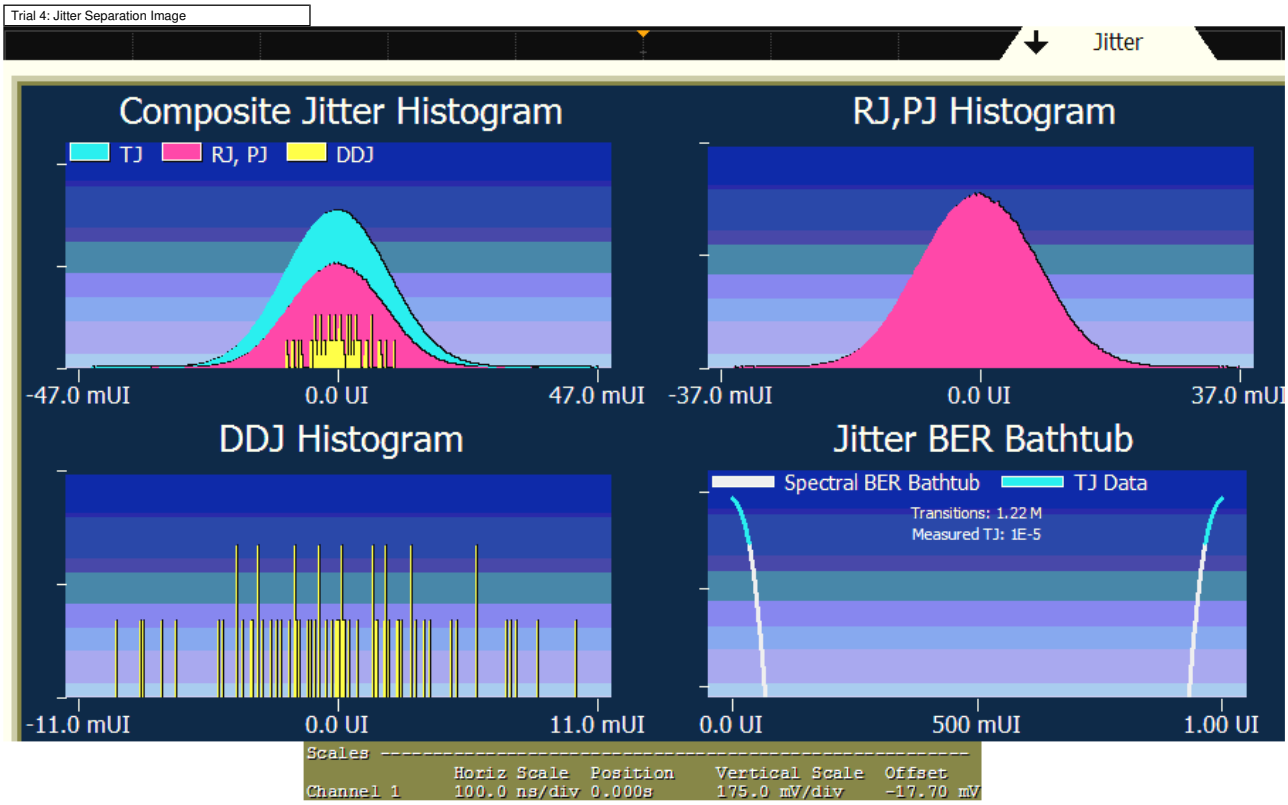

**Trial 3**

Trial 3: Jitter Separation Image




**Trial 4**

Trial 4: Jitter Separation Image




| Scales | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 1 | 100.0 ns/div | 0.000s | 175.0 mV/div | -17.70 mV |

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## Lane 1 - Total Jitter Test (Low BitRate)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass

Test Description: To evaluate the total jitter accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

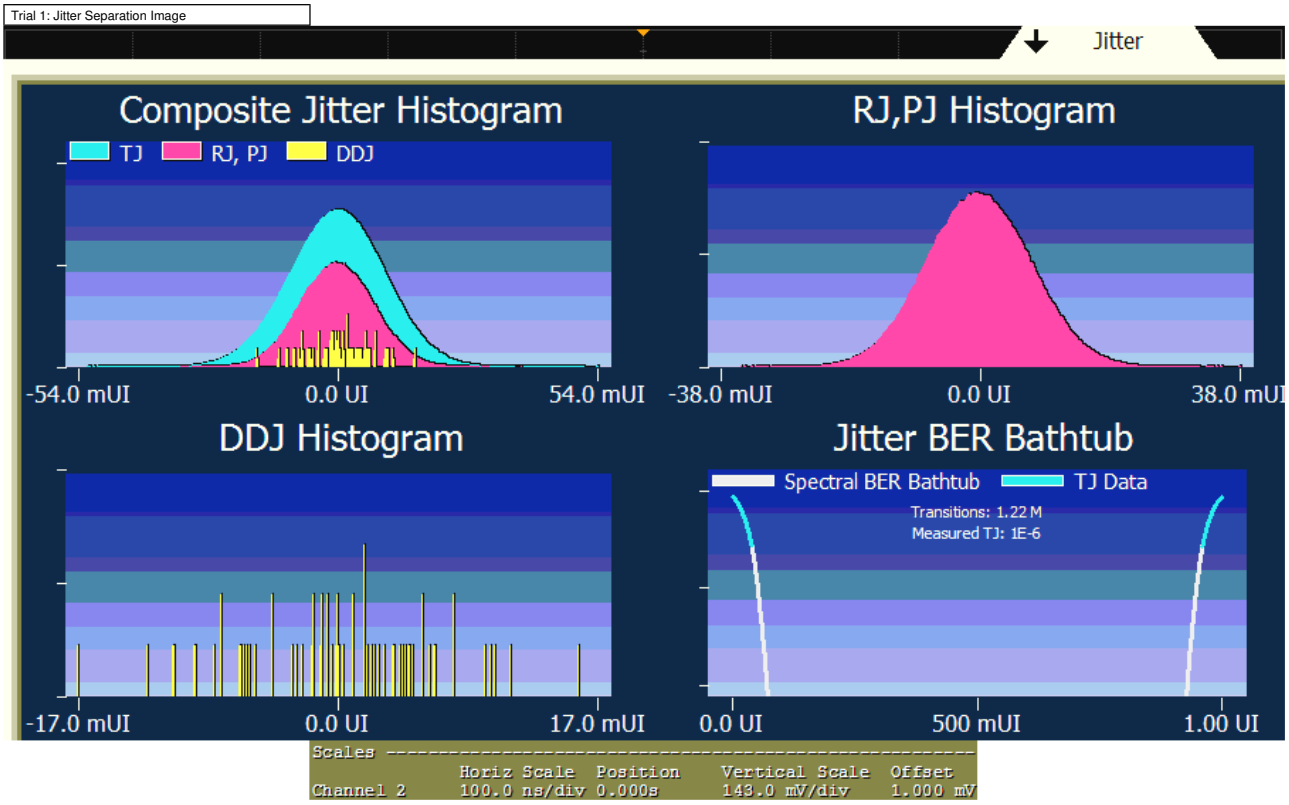
**Pass Limits:** <= 270.000 mUI | **Lane 1 Total Jitter Test (Low BitRate) (Worst of 4 Trials)** 108.100 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 3

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Total Jitter (TJ) | Total Jitter (TJ) in ps | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *106.4 mUI* | *60.60 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *1.914 mUI* | *708.8 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *4.400 mUI* | *1.630 %* | | | | | | | | | | | | | | | | | | |
| | *Min* | *103.7 mUI* | *59.96 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *108.1 mUI* | *61.59 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *425.5 mUI* | *242.4 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 107.300 mUI | 60.3% | (See image) | 1.00000000 M | 107.3 mUI | 66.2337 ps | 3.5 mUI | 7.4 mUI | 26.7 mUI | 6.7 mUI | 26.7 mUI | 33.0 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 2 | 106.400 mUI | 60.6% | (See image) | 1.00000000 M | 106.4 mUI | 65.6780 ps | 3.7 mUI | 8.3 mUI | 26.3 mUI | 6.7 mUI | 26.9 mUI | 32.3 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 3 (Worst) | 108.100 mUI | 60.0% | (See image) | 1.00000000 M | 108.1 mUI | 66.7274 ps | 3.6 mUI | 8.6 mUI | 27.1 mUI | 6.7 mUI | 27.3 mUI | 31.5 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 4 | 103.700 mUI | 61.6% | (See image) | 1.00000000 M | 103.7 mUI | 64.0114 ps | 3.7 mUI | 7.9 mUI | 24.1 mUI | 6.6 mUI | 25.2 mUI | 29.5 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |

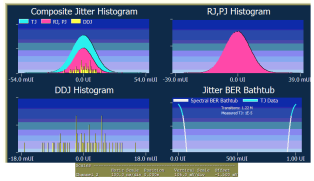
**Trial 1**

Trial 1: Jitter Separation Image



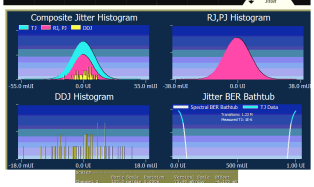

**Trial 2**

Trial 2: Jitter Separation Image



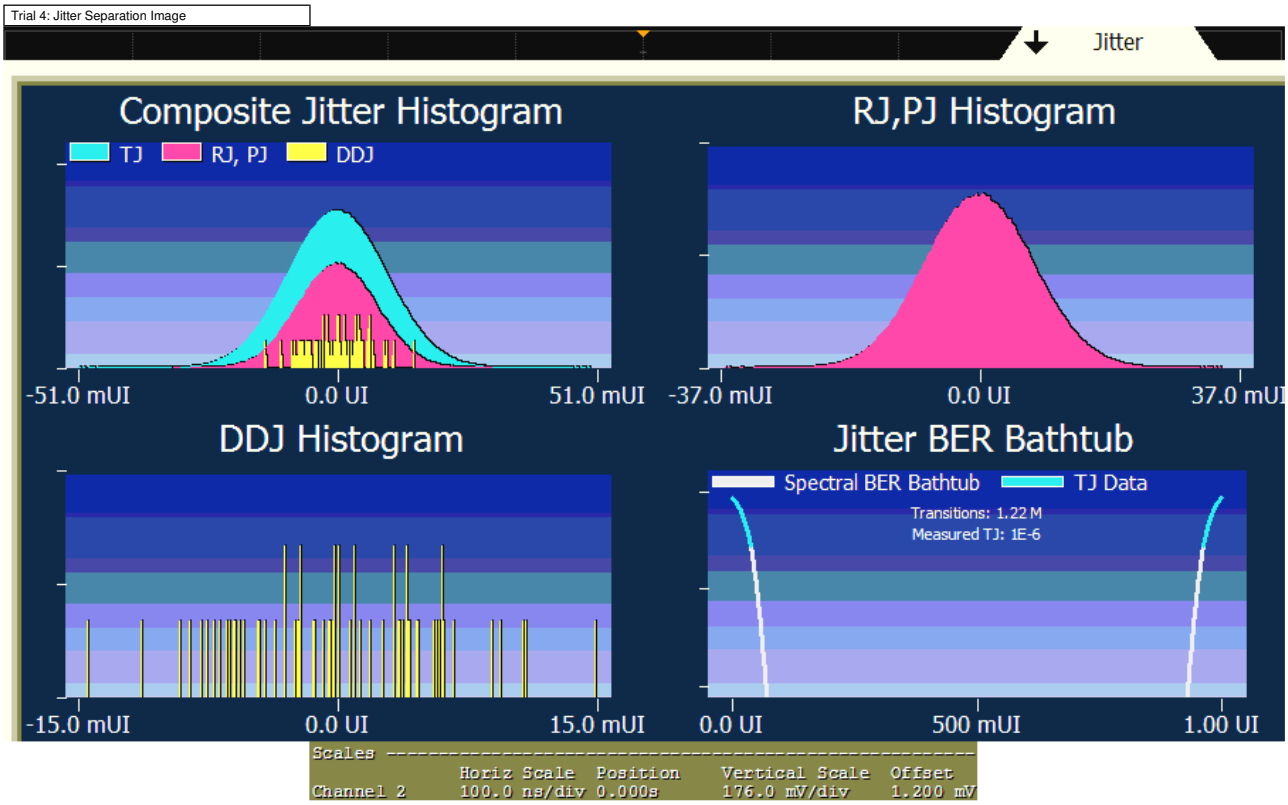
**Trial 3**

Trial 3: Jitter Separation Image



**Trial 4**

Trial 4: Jitter Separation Image




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 100.0 ns/div | 0.000s | 176.0 mV/div | 1.200 mV |

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## Lane 2 - Total Jitter Test (Low BitRate)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass

Test Description: To evaluate the total jitter accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

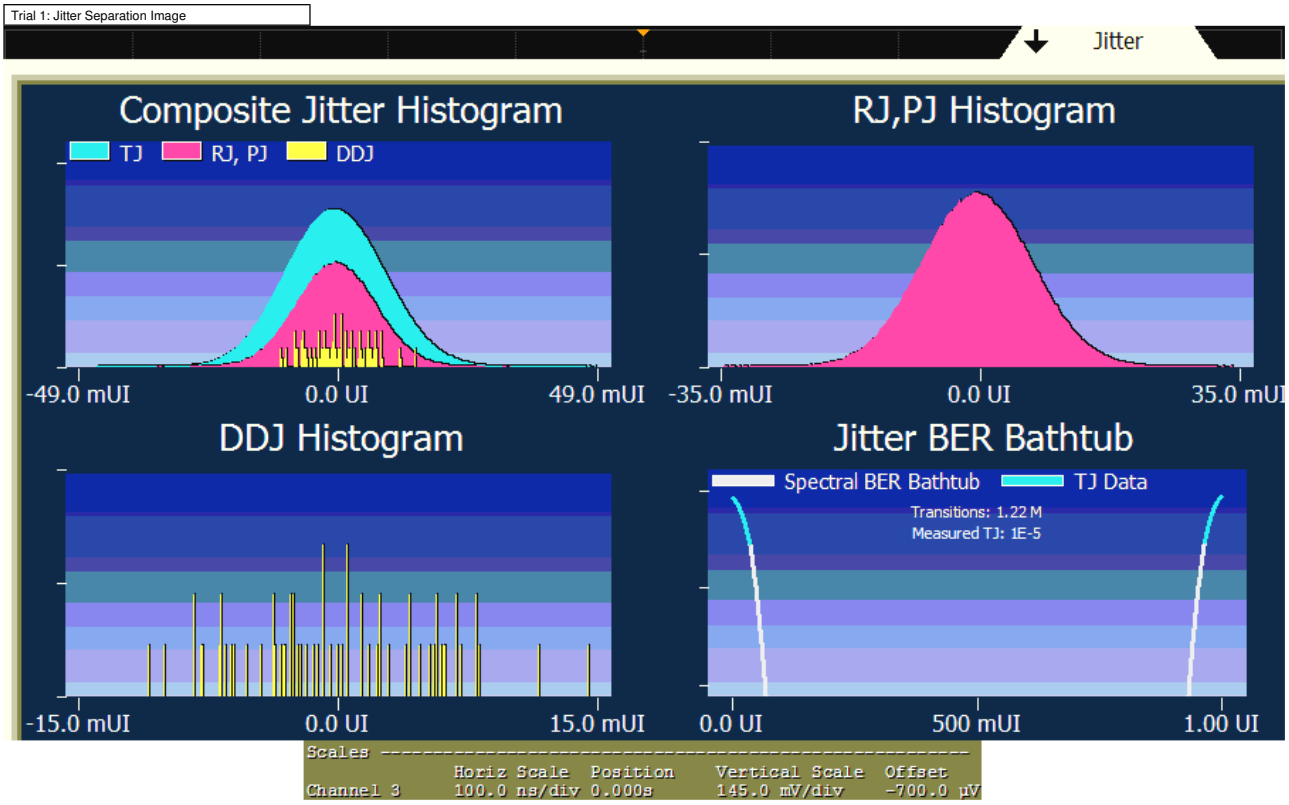
**Pass Limits:** <= 270.000 mUI | **Lane 2 Total Jitter Test (Low BitRate) (Worst of 4 Trials)** 101.200 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 3

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Total Jitter (TJ) | Total Jitter (TJ) in ps | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *99.90 mUI* | *63.00 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *1.023 mUI* | *378.9 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *2.500 mUI* | *925.9 m%* | | | | | | | | | | | | | | | | | | |
| | *Min* | *98.70 mUI* | *62.52 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *101.2 mUI* | *63.44 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *399.6 mUI* | *252.0 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 99.900 mUI | 63.0% | (See image) | 1.00000000 M | 99.9 mUI | 61.6655 ps | 3.0 mUI | 6.2 mUI | 20.2 mUI | 6.6 mUI | 24.6 mUI | 25.6 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 2 | 99.800 mUI | 63.0% | (See image) | 1.00000000 M | 99.8 mUI | 61.6040 ps | 3.0 mUI | 6.8 mUI | 19.9 mUI | 6.7 mUI | 24.7 mUI | 25.9 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 3 (Worst) | 101.200 mUI | 62.5% | (See image) | 1.00000000 M | 101.2 mUI | 62.4682 ps | 3.0 mUI | 6.2 mUI | 21.5 mUI | 6.6 mUI | 24.9 mUI | 26.9 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 4 | 98.700 mUI | 63.4% | (See image) | 1.00000000 M | 98.7 mUI | 60.9250 ps | 3.1 mUI | 7.0 mUI | 19.8 mUI | 6.6 mUI | 23.3 mUI | 24.4 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |

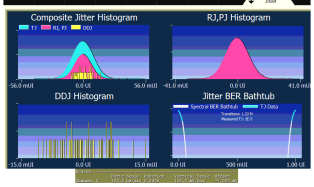
**Trial 1**

Trial 1: Jitter Separation Image



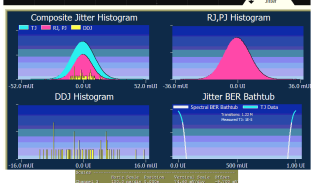

**Trial 2**

Trial 2: Jitter Separation Image



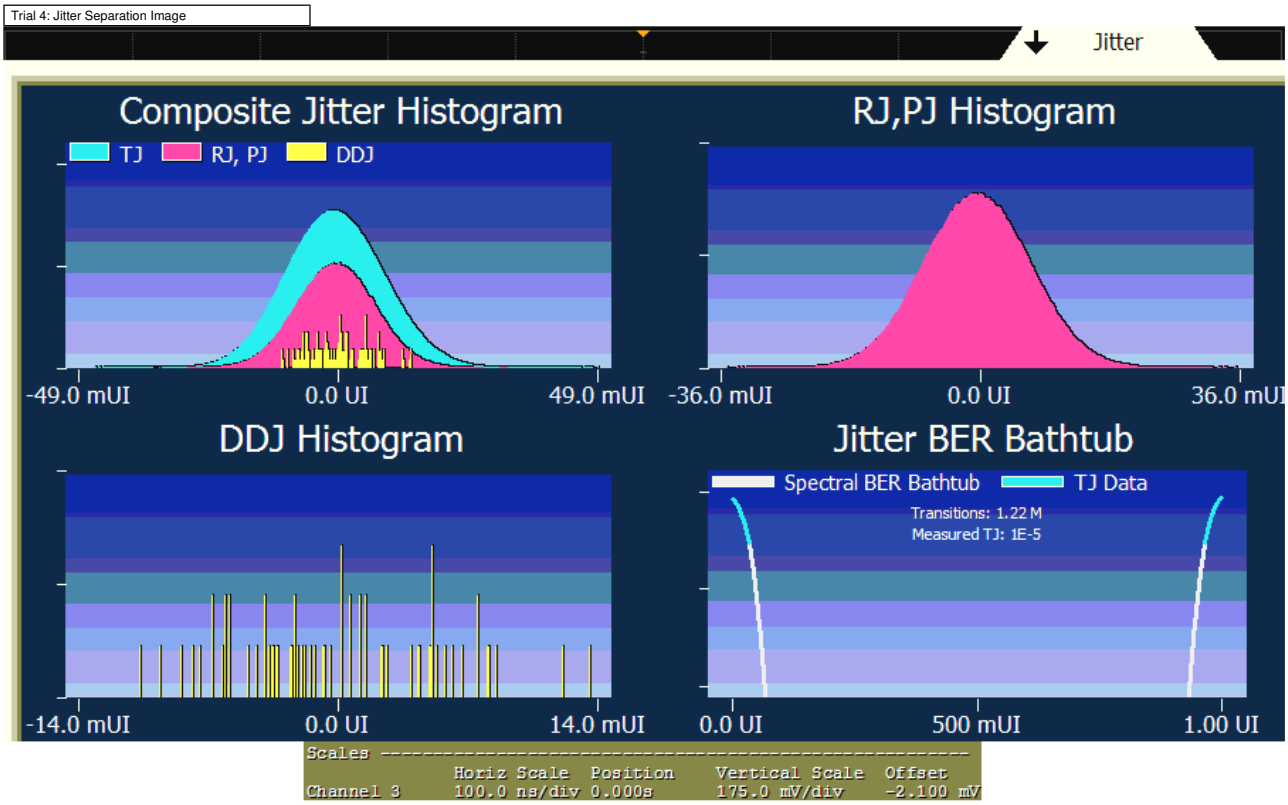
**Trial 3**

Trial 3: Jitter Separation Image



**Trial 4**

Trial 4: Jitter Separation Image

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## Lane 3 - Total Jitter Test (Low BitRate)

*Reference: DisplayPort Spec v1.2: Table 3.23 VESA DisplayPort Standard specification*

Test Summary: Pass

Test Description: To evaluate the total jitter accompanying the data transmission at either an explicit bit error rate of 1E-9 or through an approved estimation technique . This measurement is a data time interval error (Data-TIE) jitter measurement.

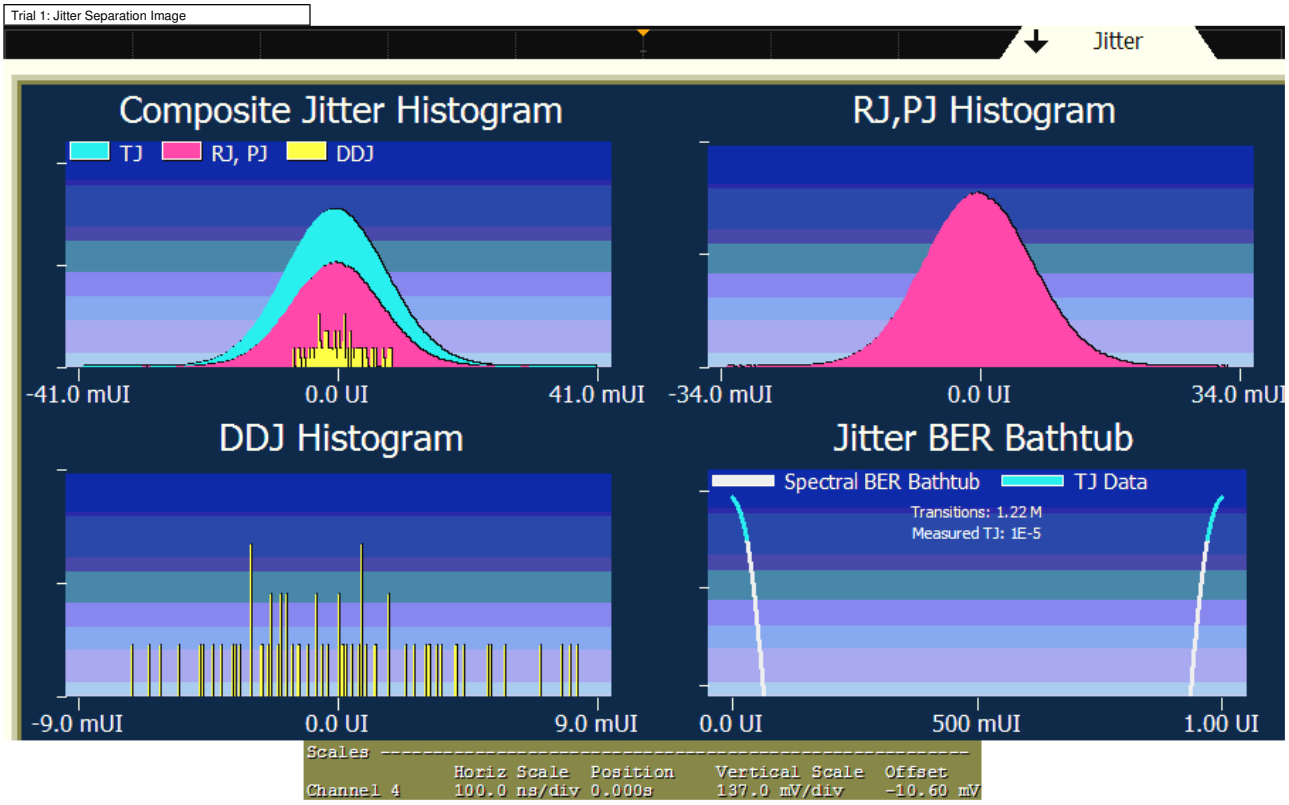
**Pass Limits:** <= 270.000 mUI | **Lane 3 Total Jitter Test (Low BitRate) (Worst of 4 Trials)** 93.600 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 3

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Total Jitter (TJ) | Total Jitter (TJ) in ps | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *92.08 mUI* | *65.90 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *1.345 mUI* | *498.2 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *2.800 mUI* | *1.037 %* | | | | | | | | | | | | | | | | | | |
| | *Min* | *90.80 mUI* | *65.33 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *93.60 mUI* | *66.37 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *368.3 mUI* | *263.6 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 90.800 mUI | 66.4% | (See image) | 1.00000000 M | 90.8 mUI | 56.0485 ps | 2.3 mUI | 4.9 mUI | 11.5 mUI | 6.6 mUI | 15.2 mUI | 15.5 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 2 | 92.800 mUI | 65.6% | (See image) | 1.00000000 M | 92.8 mUI | 57.2829 ps | 2.4 mUI | 6.4 mUI | 13.2 mUI | 6.6 mUI | 17.2 mUI | 17.7 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 3 (Worst) | 93.600 mUI | 65.3% | (See image) | 1.00000000 M | 93.6 mUI | 57.7768 ps | 2.2 mUI | 4.3 mUI | 13.3 mUI | 6.7 mUI | 20.0 mUI | 20.0 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 4 | 91.100 mUI | 66.3% | (See image) | 1.00000000 M | 91.1 mUI | 56.2336 ps | 2.4 mUI | 5.8 mUI | 11.6 mUI | 6.6 mUI | 14.2 mUI | 14.3 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |

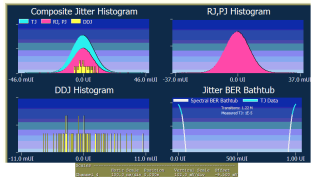
**Trial 1**

Trial 1: Jitter Separation Image



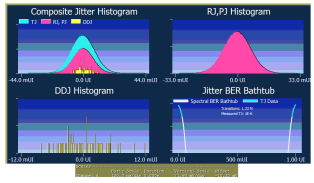

**Trial 2**

Trial 2: Jitter Separation Image



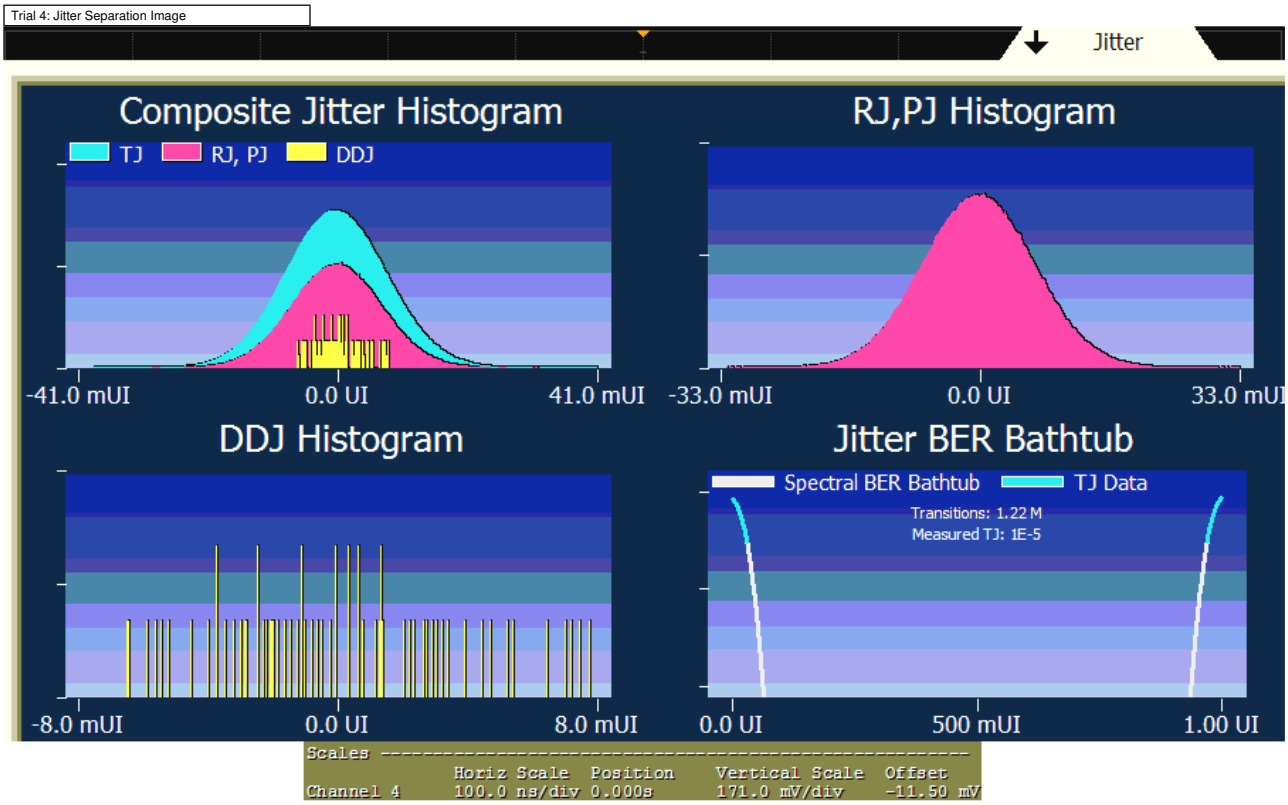
**Trial 3**

Trial 3: Jitter Separation Image



**Trial 4**

Trial 4: Jitter Separation Image

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## Lane 0 - Non-ISI Jitter Test (Low BitRate)

*Reference: DisplayPort CTS Sec. 3.11: Figure 3.18 and Figure 3.19 in the VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the amount of Non-ISI jitter accompanying the data transmission.

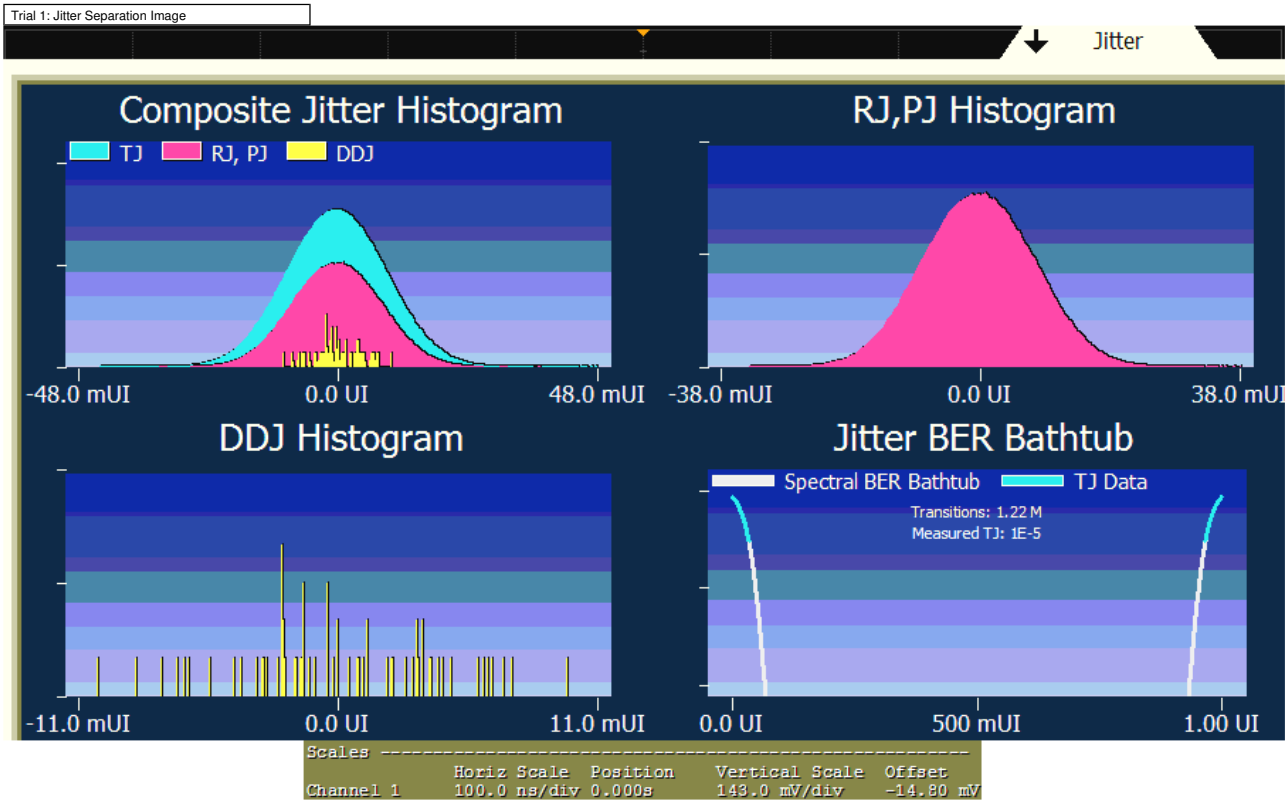
**Pass Limits:** <= 210.0000 mUI | **Lane 0 Non ISI Jitter Test (Low BitRate) (Worst of 4 Trials)** 80.9000 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 2

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Non-ISI Jitter in ps | Total Jitter (TJ) | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *80.05 mUI* | *61.88 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *1.207 mUI* | *574.7 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *2.600 mUI* | *1.238 %* | | | | | | | | | | | | | | | | | | |
| | *Min* | *78.30 mUI* | *61.48 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *80.90 mUI* | *62.71 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *320.2 mUI* | *247.5 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 80.8000 mUI | 61.5% | (See image) | 1.00000000 M | 49.8757 ps | 98.4 mUI | 4.3 mUI | 9.7 mUI | 18.1 mUI | 6.7 mUI | 17.6 mUI | 20.0 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 2 (Worst) | 80.9000 mUI | 61.5% | (See image) | 1.00000000 M | 49.9382 ps | 98.3 mUI | 4.3 mUI | 10.3 mUI | 18.0 mUI | 6.7 mUI | 17.4 mUI | 19.1 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 3 | 80.2000 mUI | 61.8% | (See image) | 1.00000000 M | 49.5061 ps | 99.2 mUI | 4.2 mUI | 9.2 mUI | 17.3 mUI | 6.8 mUI | 19.0 mUI | 19.0 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 4 | 78.3000 mUI | 62.7% | (See image) | 1.00000000 M | 48.3332 ps | 97.9 mUI | 4.5 mUI | 8.8 mUI | 18.1 mUI | 6.7 mUI | 19.6 mUI | 19.6 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |

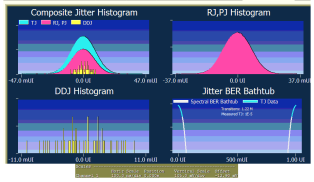
**Trial 1**

Trial 1: Jitter Separation Image



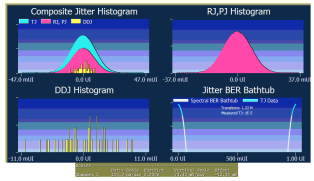

**Trial 2**

Trial 2: Jitter Separation Image



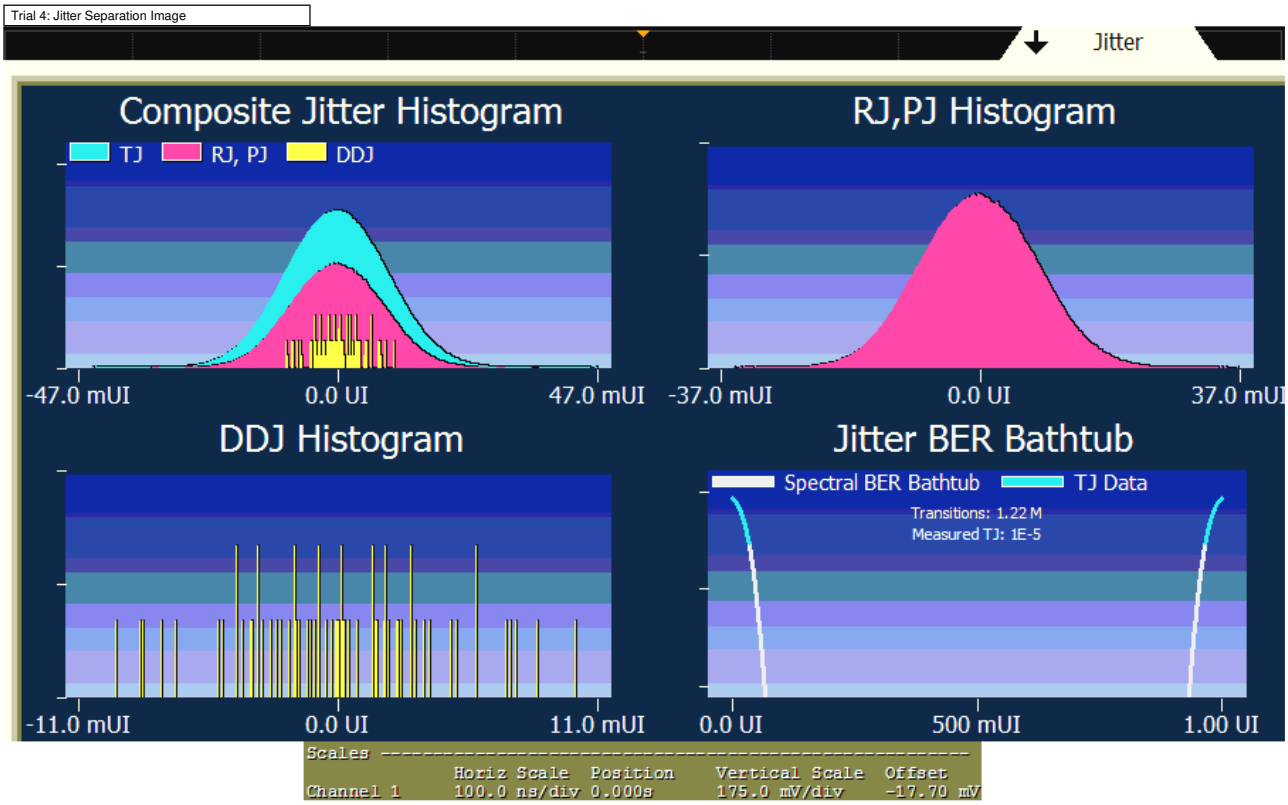
**Trial 3**

Trial 3: Jitter Separation Image



**Trial 4**

Trial 4: Jitter Separation Image

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## Lane 1 - Non-ISI Jitter Test (Low BitRate)

*Reference: DisplayPort CTS Sec. 3.11: Figure 3.18 and Figure 3.19 in the VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the amount of Non-ISI jitter accompanying the data transmission.

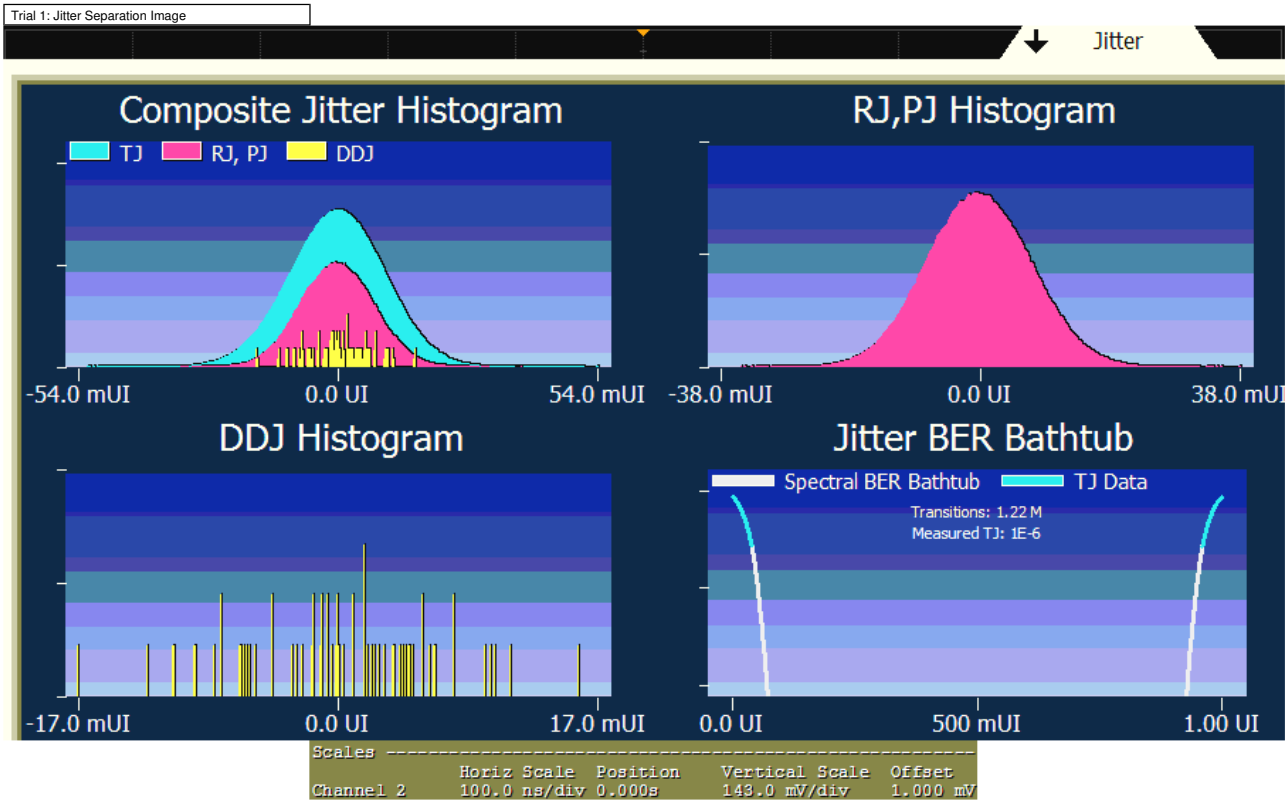
**Pass Limits:** <= 210.0000 mUI | **Lane 1 Non ISI Jitter Test (Low BitRate) (Worst of 4 Trials)** 80.8000 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 3

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Non-ISI Jitter in ps | Total Jitter (TJ) | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *79.85 mUI* | *61.98 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *1.066 mUI* | *507.7 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *2.300 mUI* | *1.095 %* | | | | | | | | | | | | | | | | | | |
| | *Min* | *78.50 mUI* | *61.52 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *80.80 mUI* | *62.62 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *319.4 mUI* | *247.9 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 80.6000 mUI | 61.6% | (See image) | 1.00000000 M | 49.7524 ps | 107.3 mUI | 3.5 mUI | 7.4 mUI | 26.7 mUI | 6.7 mUI | 26.7 mUI | 33.0 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 2 | 79.5000 mUI | 62.1% | (See image) | 1.00000000 M | 49.0733 ps | 106.4 mUI | 3.7 mUI | 8.3 mUI | 26.3 mUI | 6.7 mUI | 26.9 mUI | 32.3 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 3 (Worst) | 80.8000 mUI | 61.5% | (See image) | 1.00000000 M | 49.8758 ps | 108.1 mUI | 3.6 mUI | 8.6 mUI | 27.1 mUI | 6.7 mUI | 27.3 mUI | 31.5 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 4 | 78.5000 mUI | 62.6% | (See image) | 1.00000000 M | 48.4560 ps | 103.7 mUI | 3.7 mUI | 7.9 mUI | 24.1 mUI | 6.6 mUI | 25.2 mUI | 29.5 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |

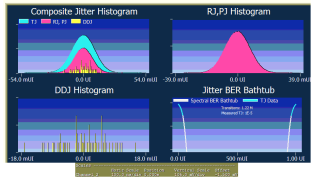
**Trial 1**

Trial 1: Jitter Separation Image



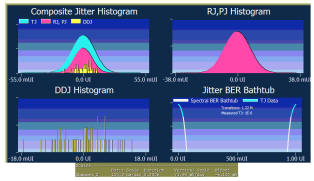

**Trial 2**

Trial 2: Jitter Separation Image



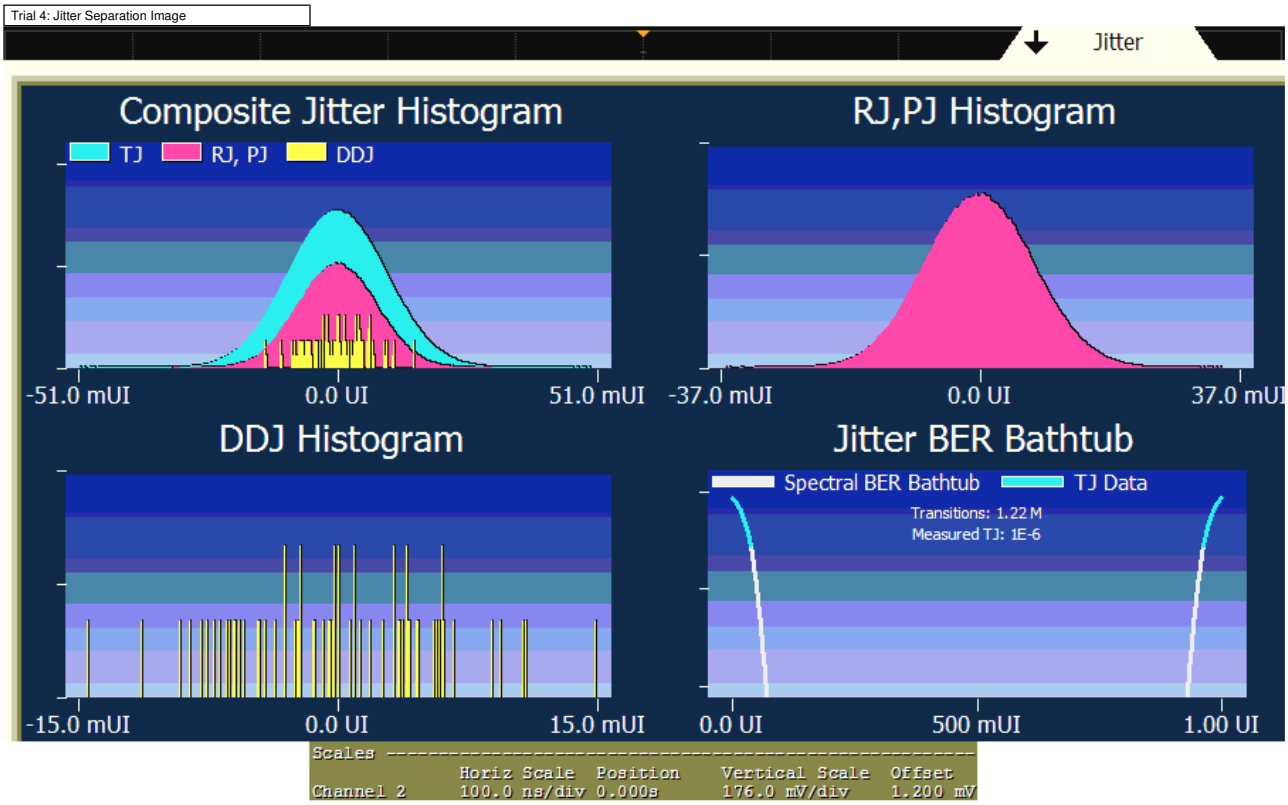
**Trial 3**

Trial 3: Jitter Separation Image



**Trial 4**

Trial 4: Jitter Separation Image




Scales

| | Horiz Scale | Position | Vertical Scale | Offset |
|---|---|---|---|---|
| Channel 2 | 100.0 ns/div | 0.000s | 176.0 mV/div | 1.200 mV |

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## Lane 2 - Non-ISI Jitter Test (Low BitRate)

*Reference: DisplayPort CTS Sec. 3.11: Figure 3.18 and Figure 3.19 in the VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the amount of Non-ISI jitter accompanying the data transmission.

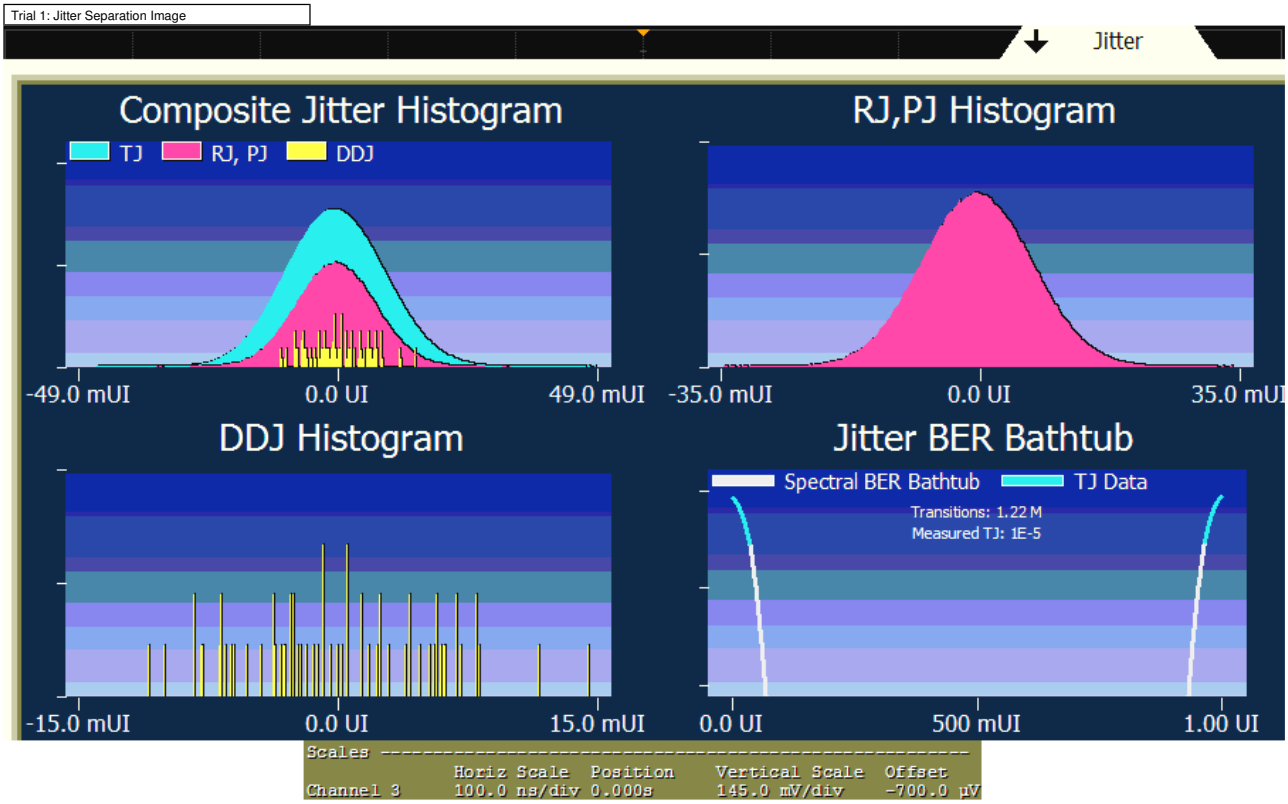
**Pass Limits:** <= 210.0000 mUI | **Lane 2 Non ISI Jitter Test (Low BitRate) (Worst of 4 Trials)** 76.3000 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 3

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Non-ISI Jitter in ps | Total Jitter (TJ) | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *75.53 mUI* | *64.04 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *531.5 µUI* | *253.1 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *1.200 mUI* | *571.4 m%* | | | | | | | | | | | | | | | | | | |
| | *Min* | *75.10 mUI* | *63.67 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *76.30 mUI* | *64.24 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *302.1 mUI* | *256.1 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 75.3000 mUI | 64.1% | (See image) | 1.00000000 M | 46.4806 ps | 99.9 mUI | 3.0 mUI | 6.2 mUI | 20.2 mUI | 6.6 mUI | 24.6 mUI | 25.6 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 2 | 75.1000 mUI | 64.2% | (See image) | 1.00000000 M | 46.3573 ps | 99.8 mUI | 3.0 mUI | 6.8 mUI | 19.9 mUI | 6.7 mUI | 24.7 mUI | 25.9 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 3 (Worst) | 76.3000 mUI | 63.7% | (See image) | 1.00000000 M | 47.0981 ps | 101.2 mUI | 3.0 mUI | 6.2 mUI | 21.5 mUI | 6.6 mUI | 24.9 mUI | 26.9 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 4 | 75.4000 mUI | 64.1% | (See image) | 1.00000000 M | 46.5425 ps | 98.7 mUI | 3.1 mUI | 7.0 mUI | 19.8 mUI | 6.6 mUI | 23.3 mUI | 24.4 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |

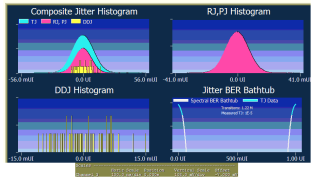
**Trial 1**

Trial 1: Jitter Separation Image



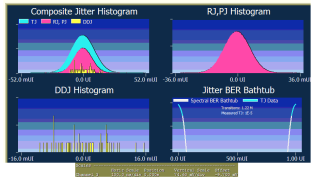

**Trial 2**

Trial 2: Jitter Separation Image



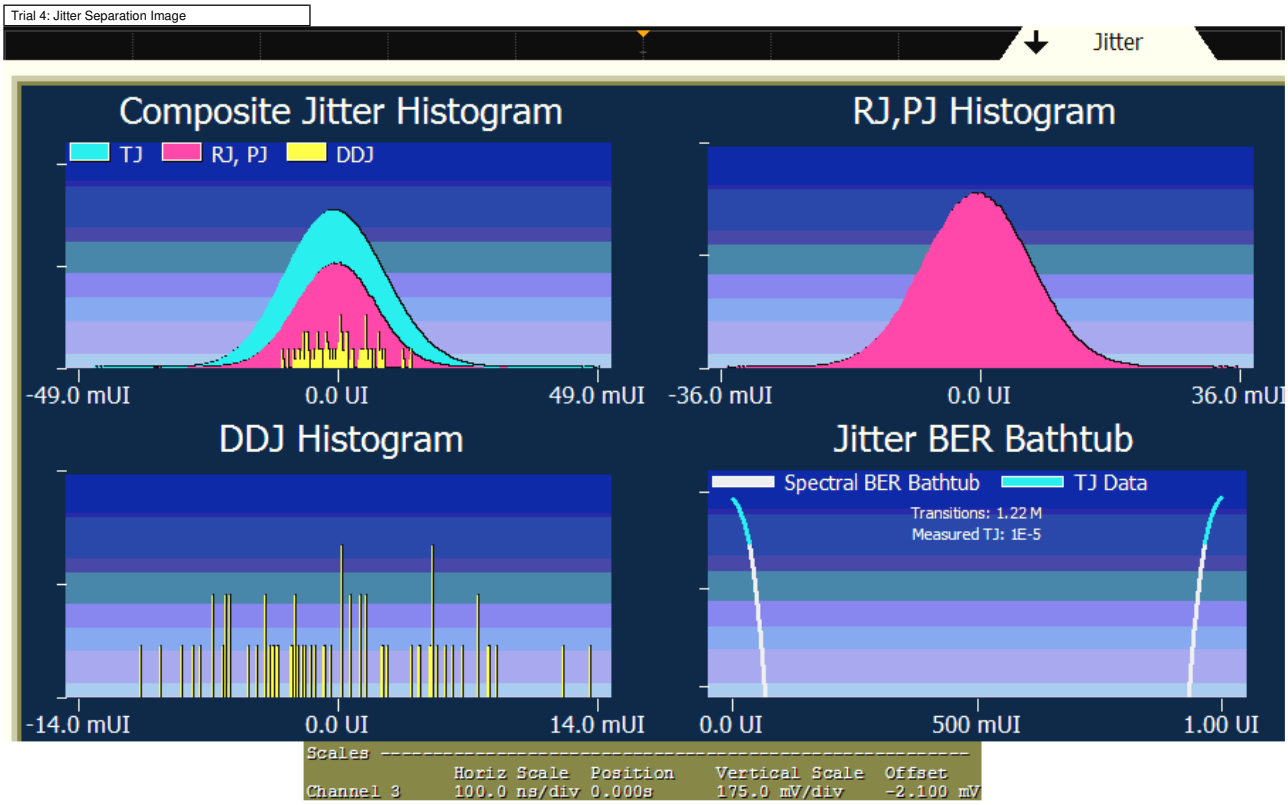
**Trial 3**

Trial 3: Jitter Separation Image



**Trial 4**

Trial 4: Jitter Separation Image

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## Lane 3 - Non-ISI Jitter Test (Low BitRate)

*Reference: DisplayPort CTS Sec. 3.11: Figure 3.18 and Figure 3.19 in the VESA DisplayPort Standard specification*

Test Summary: Pass  Test Description: To evaluate the amount of Non-ISI jitter accompanying the data transmission.

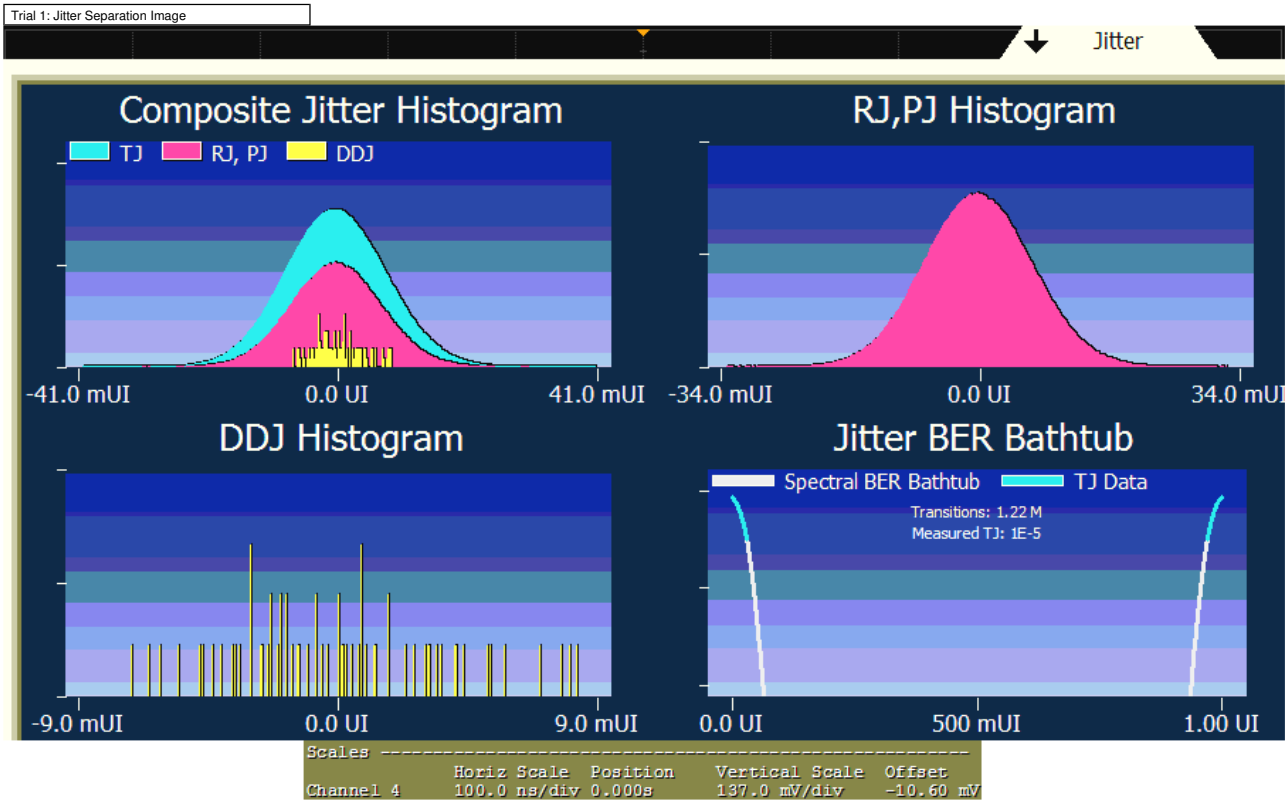
**Pass Limits:** <= 210.0000 mUI | **Lane 3 Non ISI Jitter Test (Low BitRate) (Worst of 4 Trials)** 76.9000 mUI | **# Trials Run:** 4 | **Worst Trial:** Trial 4

**Overall Summary + details of 4 worst trials**

| Pass | Trial | Actual Value | Margin | Jitter Separation Image | Edges | Non-ISI Jitter in ps | Total Jitter (TJ) | Periodic Jitter (PJ rms) | Periodic Jitter (PJ p-p) | Deterministic Jitter (DJ) | Random Jitter (RJ) | ISI Jitter (ISI) | Data Dependent Jitter (DDJ) | Bit Error Rate (BER) | Test Mode | Test Layer | Test Condition | DUT Type | Test Type | Connection Type | BitRate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Avg* | *75.43 mUI* | *64.08 %* | | | | | | | | | | | | | | | | | | |
| | *StdDev* | *1.362 mUI* | *648.7 m%* | | | | | | | | | | | | | | | | | | |
| | *Range* | *3.300 mUI* | *1.571 %* | | | | | | | | | | | | | | | | | | |
| | *Min* | *73.60 mUI* | *63.38 %* | | | | | | | | | | | | | | | | | | |
| | *Max* | *76.90 mUI* | *64.95 %* | | | | | | | | | | | | | | | | | | |
| | *Sum* | *301.7 mUI* | *256.3 %* | | | | | | | | | | | | | | | | | | |
| ✓ | Trial 1 | 75.6000 mUI | 64.0% | (See image) | 1.00000000 M | 46.6659 ps | 90.8 mUI | 2.3 mUI | 4.9 mUI | 11.5 mUI | 6.6 mUI | 15.2 mUI | 15.5 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 2 | 75.6000 mUI | 64.0% | (See image) | 1.00000000 M | 46.6658 ps | 92.8 mUI | 2.4 mUI | 6.4 mUI | 13.2 mUI | 6.6 mUI | 17.2 mUI | 17.7 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 3 | 73.6000 mUI | 65.0% | (See image) | 1.00000000 M | 45.4313 ps | 93.6 mUI | 2.2 mUI | 4.3 mUI | 13.3 mUI | 6.7 mUI | 20.0 mUI | 20.0 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |
| ✓ | Trial 4 (Worst) | 76.9000 mUI | 63.4% | (See image) | 1.00000000 M | 47.4683 ps | 91.1 mUI | 2.4 mUI | 5.8 mUI | 11.6 mUI | 6.6 mUI | 14.2 mUI | 14.3 mUI | E9 | Compliance | Physical Layer Tests | Compliance Conditions Only | Source | Differential Tests | Differential Probe | 1.62 Gbps |

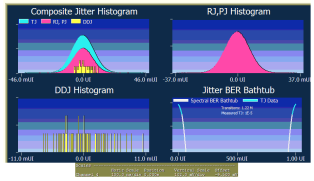
**Trial 1**

Trial 1: Jitter Separation Image



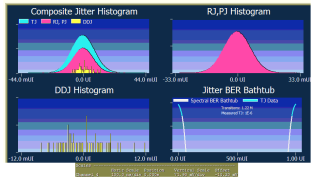

**Trial 2**

Trial 2: Jitter Separation Image



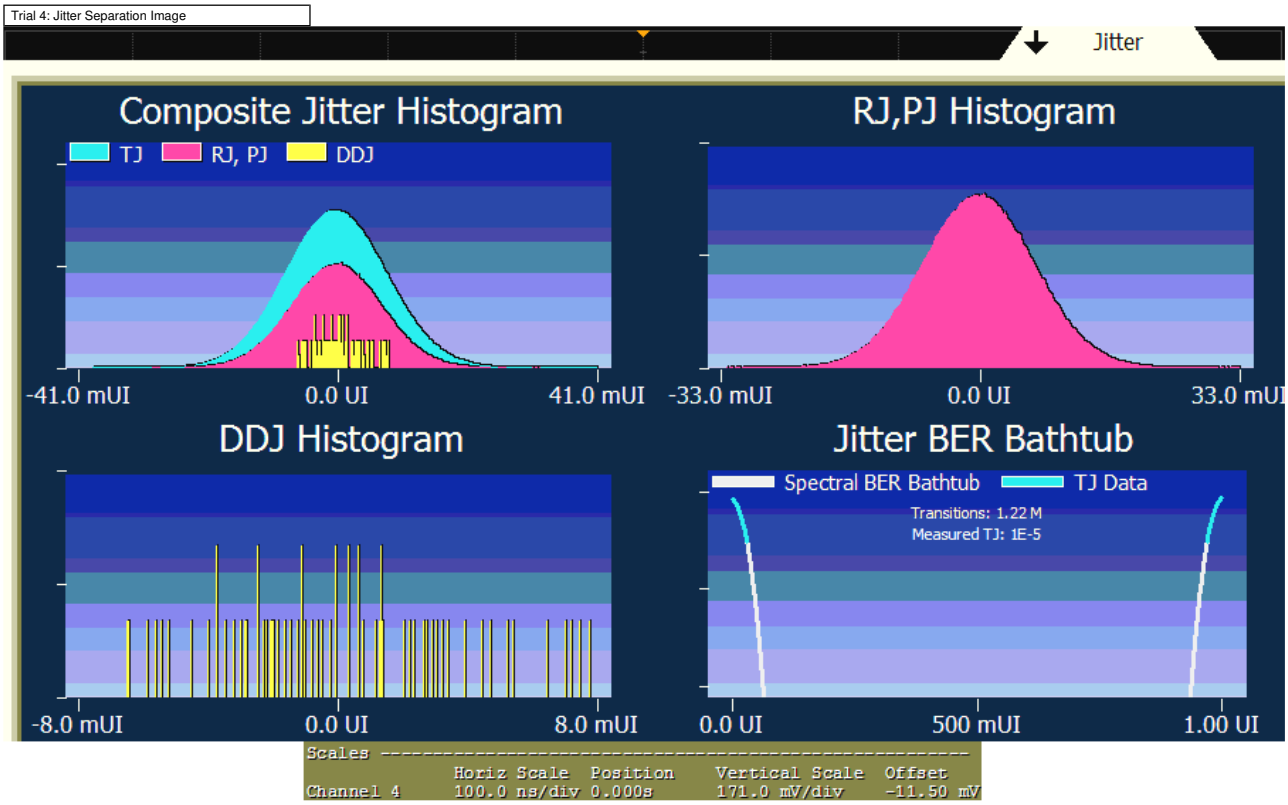
**Trial 3**

Trial 3: Jitter Separation Image



**Trial 4**

Trial 4: Jitter Separation Image

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