

# Test Report

Overall Result: **FAIL**

| Test Configuration Details |                                                                                                                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application                |                                                                                                                                                                                        |
| Name                       | D9021HDMC HDMI Test                                                                                                                                                                    |
| Version                    | 2.36.2.0                                                                                                                                                                               |
| Device Description         |                                                                                                                                                                                        |
| HDMITestType               | TMDS Physical Layer                                                                                                                                                                    |
| FixtureType                | Wilder HDMI2 TPA-P 12 inch                                                                                                                                                             |
| Probe Head Type            | N5444A/N28XXA                                                                                                                                                                          |
| Probe Connection Choice    | 4 Probes                                                                                                                                                                               |
| Lane Connection            | 3 Data Lanes                                                                                                                                                                           |
| DeviceID                   | Transmitter                                                                                                                                                                            |
| Device Name                | Device1                                                                                                                                                                                |
| Comments                   | User comments                                                                                                                                                                          |
| Test Session Details       |                                                                                                                                                                                        |
| Infiniium SW Version       | 06.74.00701                                                                                                                                                                            |
| Infiniium Model Number     | DSOX93204A                                                                                                                                                                             |
| Infiniium Serial Number    | MY51270003                                                                                                                                                                             |
| Debug Mode Used            | No                                                                                                                                                                                     |
| Probe (Channel 1)          | Model: N2802A<br>Serial: US54094800<br>Head: N5444A<br>Atten: Calibrated (6 JAN 2025 20:09:22), Using Cal Atten (5.8272E+00)<br>Skew: Calibrated (6 JAN 2025 20:09:32), Using Cal Skew |
| Probe (Channel 2)          | Model: N2802A<br>Serial: US54095134<br>Head: N5444A<br>Atten: Calibrated (6 JAN 2025 20:10:31), Using Cal Atten (5.6528E+00)<br>Skew: Calibrated (6 JAN 2025 20:10:41), Using Cal Skew |
| Probe (Channel 3)          | Model: N2802A<br>Serial: US54095193<br>Head: N5444A<br>Atten: Calibrated (6 JAN 2025 20:11:41), Using Cal Atten (5.8611E+00)<br>Skew: Calibrated (6 JAN 2025 20:11:51), Using Cal Skew |
| Probe (Channel 4)          | Model: N7003A<br>Serial: US57312057<br>Head: N5444A<br>Atten: Calibrated (6 JAN 2025 20:13:24), Using Cal Atten (1.0133E+01)<br>Skew: Calibrated (6 JAN 2025 20:16:17), Using Cal Skew |

|                |                                |
|----------------|--------------------------------|
| Last Test Date | 2025-01-06 21:15:23 UTC -08:00 |
|----------------|--------------------------------|

Summary of Results

| Test Statistics |   |
|-----------------|---|
| Failed          | 1 |
| Passed          | 0 |
| Total           | 1 |

| Margin Thresholds |       |
|-------------------|-------|
| Warning           | < 5 % |
| Critical          | < 0 % |

| Pass | # Failed | # Trials | Test Name          | Actual Value | Margin     | Pass Limits      |
|------|----------|----------|--------------------|--------------|------------|------------------|
| ✖    | 1        | 1        | 7-10: D0 Mask Test | 2.854000 k   | -285E+03 % | No Mask Failures |

Report Detail

Next

|                     |                         |
|---------------------|-------------------------|
| ✖7-10: D0 Mask Test | Reference: Test ID 7-10 |
|---------------------|-------------------------|

|                    |                                                                                                                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Summary: FAIL | Test Description: For all channels under all operating conditions specified in Table 4-11 . The Source shall have output levels at TP1, which meet the normalized eye diagram requirements. |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                               |                                          |
|-------------------------------|------------------------------------------|
| Pass Limits: No Mask Failures | 7-10 Total # failures D0 Lane 2.854000 k |
|-------------------------------|------------------------------------------|

Result Details

|                               |  |         |                       |                         |           |                      |                |                         |                     |             |        |                                   |                     |        |                |                                   |    |             |                      |    |              |  |        |
|-------------------------------|--|---------|-----------------------|-------------------------|-----------|----------------------|----------------|-------------------------|---------------------|-------------|--------|-----------------------------------|---------------------|--------|----------------|-----------------------------------|----|-------------|----------------------|----|--------------|--|--------|
| HDMIAutomationConfig          |  | Timing  | 100                   | Eye Width(ps)           |           | 247.790              | Eye Height(mV) |                         | 454.000             | Data Lane A |        | D0                                | Test Frequency(MHz) |        | 297.000 MHz    | Mask Moved(ps)                    |    | 14.690      | # Acquisitions Point |    | 16000000     |  |        |
| Tbit(ps)                      |  | 336.704 | RightJitterData(Tbit) |                         | 264.059 m | LeftJitterData(Tbit) |                | 264.059 m               | RightJitterData(ps) |             | 88.910 | LeftJitterData(ps)                |                     | 88.910 | Maximum Margin |                                   | NA | Left Margin |                      | NA | Right Margin |  | NA     |
| Maximum Margin (Vertical)     |  |         | NA                    | Upper Margin (Vertical) |           |                      | NA             | Lower Margin (Vertical) |                     |             | NA     | Differential Swing Voltage, VH(V) |                     |        | 674 m          | Differential Swing Voltage,VL (V) |    |             |                      |    |              |  | -663 m |
| Differential Swing Voltage(V) |  |         | 1.337                 |                         |           |                      |                |                         |                     |             |        |                                   |                     |        |                |                                   |    |             |                      |    |              |  |        |

Trial 1

Trial 1: 7-10 Total # failures D0 Lane

Keysight Infiniium : Monday, January 06, 2025 9:15:22 PM



