

# Test Report for VESA Display HDR

Company Name : Top Victory Investments Limited

Model Name : AOC AG274QZM

Display HDR Tier : 1000

Test Start Date : 10/07/2021

Report Date : 10/12/2021

Test Result : Pass

**Notice:**

Test result is valid only to the original tested device model. Allion reserves the right to prohibit others to distort, isolate, falsify, copied and/or by any process to change the content of this test report unless it is prior approved by Allion.



**Company**

Company Name: Top Victory Investments Limited

Company Address: 8F., No. 230, Liancheng Rd., Zhonghe Dist., New Taipei City 23553, Taiwan (R.O.C.)

**Contact**

Name: Masa.Hung

Phone Number: 02-8226-1668 ext. 2004

E-Mail: masa.hung@tpv-tech.com

**Product Information:**

Target HDR Tier: 1000

Provided DUT Information Form:  Yes  No

Display Firmware Version: V001

Panel Driver IC model name: NT60902FH

Panel Driver IC FW: NA

HDR mode OSD settings: OSD menu -> Image Setup -> HDR -> Display HDR

DP Certificaion status: Yes

\*\*\* This is a required field, the test project will be held until the information provided. \*\*\*

Version of Test Specification: Ver 1.1, 29 Aug, 2019

Test interface port: DisplayPort,USB-C,HDMI 1, HDMI 2

All external inputs: DP\*1,USB-C\*1,HDMI\*2

Tester: Tommy Chen

Authorized Signature: Lexus Lee

**Overall Test Result:** Pass

Project ID: MOR-AOC-VSH-172  
Document Number : VSH-RPT-002



**Certified Product Website Posting Information**

If this section is left blank, device(s) will not be posted publicly on the VESA site(s).

At a later date, you may choose to send a copy of your certification and this information to [moderator@vesa.org](mailto:moderator@vesa.org) for posting.

If you would like the product listing to hyperlink to an associated product page but do not currently know the URL, you may send the URL at a later date to [moderator@vesa.org](mailto:moderator@vesa.org).

<b>Exact product name(s) to be listed:</b>	AOC AG274QZM
<b>Date which the certified product listing should appear on the VESA site(s) [DD/MM/YYYY]</b>	30/10/2021
<b>Product URL to be hyperlinked to the certified product listing (if known)</b>	NA
<i>In order to be listed, the company must be a current member of VESA and have executed a Trademark License Agreement.</i>	



## Test Equipment for Display HDR

Model Name	Type	Manufacture	Comment
CA-410	Spectroradiometer	Konica Minolta	Last date of calibration: Nov. 9, 2020
K10-A	Light Measurement Device	Klein	
Intel UHD Graphics 630	Graphcis Card	Intel	Driver Ver. 27.20.100.9684
Windows 10x64	System OS	Microsoft	Ver 20H2, Build 19042
DPM Tool	Pattern tool	VESA	Ver 1.11

## Summary of Test Result

Test ID	DP	USB-C	HDMI1	HDMI2
5.1.1 Minimum-white Luminance– 10% Center Patch Test	Pass	Pass	Pass	Pass
5.1.2 Minimum-white Luminance– Full-screen Flash Test	Pass	Pass	Pass	Pass
5.1.3 Minimum-white Luminance– Full-screen Long - duration Test	Pass	Pass	Pass	Pass
5.2.1 Dual Corner Box Test– Black-level Test	Pass	Pass	Pass	Pass
5.2.2 Checkerboard tests– Black-level Test	Pass	Pass	Pass	Pass
6.1 Color Gamut Specifications	Pass	Pass	Pass	Pass
7.1 Bit-depth Specification	Pass	Pass	Pass	Pass
8.3 Rise-time	Pass	Pass	Pass	Pass
9.3 Luminance and White Point Accuracy	Pass	Pass	Pass	Pass



**Test Results-HDR 1000      Port : DP      2560x1440      60 Hz      RGB**

ID	Pass / Fail	Comment or Value																																																												
5.1.1 Minimum-white Luminance- 10% Center Patch Test	Pass	Minimum of all samples: <b>1163.04</b> nits Maximum range between high and low <10% : <b>2.1%</b>  Detailed Measured Value <table border="1"> <tr><td>1</td><td>1187.37</td><td>16</td><td>1171.06</td></tr> <tr><td>2</td><td>1176.61</td><td>17</td><td>1175.02</td></tr> <tr><td>3</td><td>1170.89</td><td>18</td><td>1174.00</td></tr> <tr><td>4</td><td>1166.78</td><td>19</td><td>1176.13</td></tr> <tr><td>5</td><td>1163.04</td><td>20</td><td>1173.64</td></tr> <tr><td>6</td><td>1164.20</td><td>21</td><td>1176.03</td></tr> <tr><td>7</td><td>1164.67</td><td>22</td><td>1175.54</td></tr> <tr><td>8</td><td>1164.61</td><td>23</td><td>1177.01</td></tr> <tr><td>9</td><td>1164.57</td><td>24</td><td>1177.63</td></tr> <tr><td>10</td><td>1163.66</td><td>25</td><td>1176.54</td></tr> <tr><td>11</td><td>1165.37</td><td>26</td><td>1177.26</td></tr> <tr><td>12</td><td>1164.59</td><td>27</td><td>1177.35</td></tr> <tr><td>13</td><td>1167.40</td><td>28</td><td>1178.71</td></tr> <tr><td>14</td><td>1167.90</td><td>29</td><td>1177.53</td></tr> <tr><td>15</td><td>1169.18</td><td>30</td><td>1179.90</td></tr> </table> <b>Criteria:</b> Please refer to P.30 of VESA Display HDR CTS Ver 1.1 for details.	1	1187.37	16	1171.06	2	1176.61	17	1175.02	3	1170.89	18	1174.00	4	1166.78	19	1176.13	5	1163.04	20	1173.64	6	1164.20	21	1176.03	7	1164.67	22	1175.54	8	1164.61	23	1177.01	9	1164.57	24	1177.63	10	1163.66	25	1176.54	11	1165.37	26	1177.26	12	1164.59	27	1177.35	13	1167.40	28	1178.71	14	1167.90	29	1177.53	15	1169.18	30	1179.90
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5.1.2 Minimum-white Luminance- Full-screen Flash Test	Pass	Minimum of all samples: <b>1274.48</b> nits  Detailed Measured Value <table border="1"> <tr><td>1</td><td>1274.48</td></tr> <tr><td>2</td><td>1275.80</td></tr> <tr><td>3</td><td>1278.62</td></tr> <tr><td>4</td><td>1277.94</td></tr> <tr><td>5</td><td>1279.52</td></tr> </table> <b>Criteria:</b> Please refer to P.31 of VESA Display HDR CTS Ver 1.1 for details.	1	1274.48	2	1275.80	3	1278.62	4	1277.94	5	1279.52																																																		
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5.1.3 Minimum-white Luminance– Full-screen Long-duration Test	Pass	<p>Minimum of all samples: <b>1270.52</b> nits</p> <p>Detailed Measured Value</p> <table border="1"> <tr><td>1</td><td>1342.88</td><td>16</td><td>1297.95</td></tr> <tr><td>2</td><td>1339.39</td><td>17</td><td>1295.59</td></tr> <tr><td>3</td><td>1335.26</td><td>18</td><td>1294.11</td></tr> <tr><td>4</td><td>1332.84</td><td>19</td><td>1290.79</td></tr> <tr><td>5</td><td>1329.72</td><td>20</td><td>1288.58</td></tr> <tr><td>6</td><td>1328.08</td><td>21</td><td>1286.54</td></tr> <tr><td>7</td><td>1324.57</td><td>22</td><td>1284.83</td></tr> <tr><td>8</td><td>1320.20</td><td>23</td><td>1282.19</td></tr> <tr><td>9</td><td>1317.50</td><td>24</td><td>1280.83</td></tr> <tr><td>10</td><td>1315.37</td><td>25</td><td>1280.18</td></tr> <tr><td>11</td><td>1312.72</td><td>26</td><td>1277.04</td></tr> <tr><td>12</td><td>1309.28</td><td>27</td><td>1275.26</td></tr> <tr><td>13</td><td>1307.93</td><td>28</td><td>1272.42</td></tr> <tr><td>14</td><td>1305.21</td><td>29</td><td>1274.33</td></tr> <tr><td>15</td><td>1301.29</td><td>30</td><td>1270.52</td></tr> </table> <p><b>Criteria:</b> Please refer to P.32 of VESA display HDR CTS Ver 1.1 for details.</p>	1	1342.88	16	1297.95	2	1339.39	17	1295.59	3	1335.26	18	1294.11	4	1332.84	19	1290.79	5	1329.72	20	1288.58	6	1328.08	21	1286.54	7	1324.57	22	1284.83	8	1320.20	23	1282.19	9	1317.50	24	1280.83	10	1315.37	25	1280.18	11	1312.72	26	1277.04	12	1309.28	27	1275.26	13	1307.93	28	1272.42	14	1305.21	29	1274.33	15	1301.29	30	1270.52
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5.2.1 Dual Corner Box Test Black-level Test	Pass	<p>Screen center value: <b>0.0163</b> nits                      White corners value: <b>1120.86</b> nits</p> <p>Detailed Measured Value</p> <table border="1"> <tr><td>Center</td><td>0.0163</td></tr> <tr><td>Left</td><td>1191.33</td></tr> <tr><td>Right</td><td>1120.86</td></tr> </table> <p><b>Criteria:</b> Please refer to P.34 of VESA Display HDR CTS Ver 1.1 for details.</p>	Center	0.0163	Left	1191.33	Right	1120.86																																																						
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5.2.2 Checkerboard tests Black-level Test	Pass	<p>Active Dimming Stops Required at 50 cd/m<sup>2</sup> :  <b>13.19</b></p> <p>Active Dimming Stops Required at 5 cd/m<sup>2</sup> :  <b>14.30</b></p> <p><i>Detailed Measured Value</i>                      Active Dimming at 50 cd/m<sup>2</sup> :</p> <table border="1"> <tr><td>Top White</td><td>50.91</td></tr> <tr><td>Bottom White</td><td>53.88</td></tr> <tr><td>Top Black</td><td>0.1152</td></tr> <tr><td>Bottom Black</td><td>0.1365</td></tr> </table> <p>Active Dimming at 5 cd/m<sup>2</sup> :</p> <table border="1"> <tr><td>Top White</td><td>5.07</td></tr> <tr><td>Bottom White</td><td>5.41</td></tr> <tr><td>Top Black</td><td>0.0537</td></tr> <tr><td>Bottom Black</td><td>0.0622</td></tr> </table> <p><b>Criteria:</b>                      Please refer to P.39 of VESA Display HDR CTS Ver 1.1 for details.</p>	Top White	50.91	Bottom White	53.88	Top Black	0.1152	Bottom Black	0.1365	Top White	5.07	Bottom White	5.41	Top Black	0.0537	Bottom Black	0.0622												
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6.1 Color Gamut Specifications	Pass	<p>10% Patch Color Luminance Sum: <b>1150</b> nits                      BT.709 Coverage u'v' : <b>99.25%</b>                      DCI-P3 Coverage u'v' : <b>95.58%</b></p> <table border="1"> <thead> <tr><th></th><th>x</th><th>y</th><th>Luminance</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.6920</td><td>0.3001</td><td>242.76</td></tr> <tr><td>Green</td><td>0.2121</td><td>0.6805</td><td>815.27</td></tr> <tr><td>Blue</td><td>0.1591</td><td>0.0538</td><td>91.94</td></tr> </tbody> </table> <table border="1"> <thead> <tr><th></th><th>u'</th><th>v'</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.53050</td><td>0.51772</td></tr> <tr><td>Green</td><td>0.07897</td><td>0.57015</td></tr> <tr><td>Blue</td><td>0.19131</td><td>0.14544</td></tr> </tbody> </table> <p>Full Screen Color Luminance Sum: <b>1313</b> nits                      BT.709 Coverage u'v' : <b>99.12%</b>                      DCI-P3 Coverage u'v' : <b>95.64%</b></p>		x	y	Luminance	Red	0.6920	0.3001	242.76	Green	0.2121	0.6805	815.27	Blue	0.1591	0.0538	91.94		u'	v'	Red	0.53050	0.51772	Green	0.07897	0.57015	Blue	0.19131	0.14544
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6.1 Color Gamut Specifications		<p>Full Screen Color detail value</p> <table border="1"> <thead> <tr> <th></th> <th>x</th> <th>y</th> <th>Luminance</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>0.6927</td> <td>0.3003</td> <td>289.95</td> </tr> <tr> <td>Green</td> <td>0.2140</td> <td>0.6826</td> <td>921.69</td> </tr> <tr> <td>Blue</td> <td>0.1601</td> <td>0.0558</td> <td>101.71</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th>u'</th> <th>v'</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>0.53100</td> <td>0.51793</td> </tr> <tr> <td>Green</td> <td>0.07954</td> <td>0.57079</td> </tr> <tr> <td>Blue</td> <td>0.19114</td> <td>0.15001</td> </tr> </tbody> </table> <p>Please refer to P.9 of report for coverage picture.</p> <p><b>Criteria:</b> Please refer to P.40 of VESA Display HDR CTS Ver 1.1 for details.</p>		x	y	Luminance	Red	0.6927	0.3003	289.95	Green	0.2140	0.6826	921.69	Blue	0.1601	0.0558	101.71		u'	v'	Red	0.53100	0.51793	Green	0.07954	0.57079	Blue	0.19114	0.15001
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7.1 Bit-depth Specification	Pass	<p>Driver IC Display Claims (Min) <b>8+2</b> bits</p> <p><b>Criteria:</b> Please refer to P.44 of VESA Display HDR CTS Ver 1.1 for details.</p>																												
8.3 Rise-time Specifications	Pass	<p>Rise Time (Max) at 60 refresh rate(Hz): <b>18 ms</b> Measuring 5 sequential rises.</p> <table border="1"> <tbody> <tr><td>1</td><td>16</td></tr> <tr><td>2</td><td>18</td></tr> <tr><td>3</td><td>18</td></tr> <tr><td>4</td><td>18</td></tr> <tr><td>5</td><td>18</td></tr> </tbody> </table> <p><b>Criteria:</b> Please refer to P.48 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	16	2	18	3	18	4	18	5	18																		
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3	18																													
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5	18																													



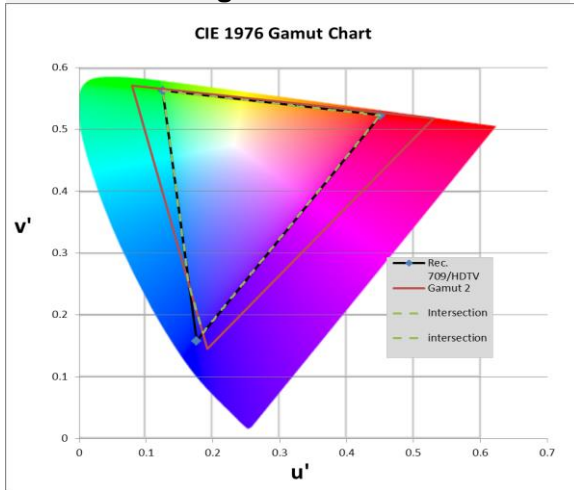


ID	Pass / Fail	Comment or Value																																	
9.3 Luminance and White Point Accuracy	Pass	<p><b>Delta-ITP Value</b></p> <table border="1"> <tr><td>5.172 cd/m2</td><td>9.3</td></tr> <tr><td>14.958 cd/m2</td><td>11.9</td></tr> <tr><td>50.825 cd/m2</td><td>11.9</td></tr> <tr><td>100.23 cd/m2</td><td>13.6</td></tr> <tr><td>199.15 cd/m2</td><td>12.9</td></tr> <tr><td>50% of Tier Level Maximum</td><td>11.95</td></tr> </table> <p><b>Detailed Measured Value</b></p> <table border="1"> <thead> <tr><th>x</th><th>y</th><th>Y</th></tr> </thead> <tbody> <tr><td>0.2905</td><td>0.3089</td><td>5.33</td></tr> <tr><td>0.2901</td><td>0.3081</td><td>16.14</td></tr> <tr><td>0.2909</td><td>0.3094</td><td>51.61</td></tr> <tr><td>0.2912</td><td>0.3096</td><td>91.96</td></tr> <tr><td>0.2917</td><td>0.3102</td><td>190.12</td></tr> <tr><td>0.2932</td><td>0.3116</td><td>493.49</td></tr> </tbody> </table> <p><b>Criteria:</b> Please refer to P.52 of VESA Display HDR CTS Ver 1.1 for details.</p>	5.172 cd/m2	9.3	14.958 cd/m2	11.9	50.825 cd/m2	11.9	100.23 cd/m2	13.6	199.15 cd/m2	12.9	50% of Tier Level Maximum	11.95	x	y	Y	0.2905	0.3089	5.33	0.2901	0.3081	16.14	0.2909	0.3094	51.61	0.2912	0.3096	91.96	0.2917	0.3102	190.12	0.2932	0.3116	493.49
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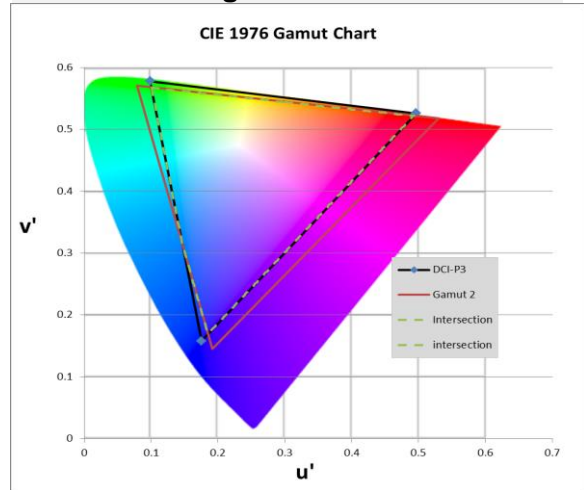


**DP**

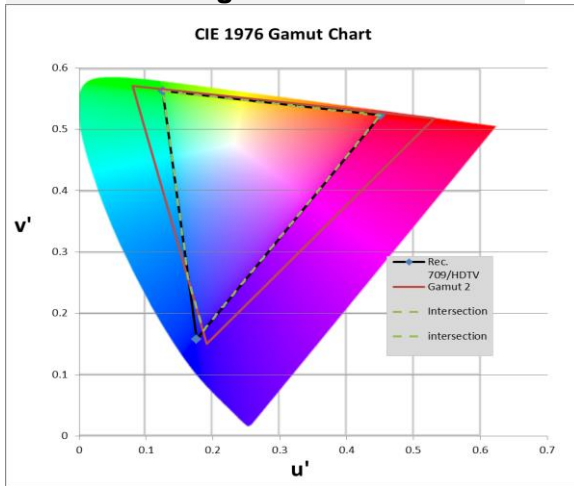
**BT.709 Coverage u'v' for the 10% Patch**



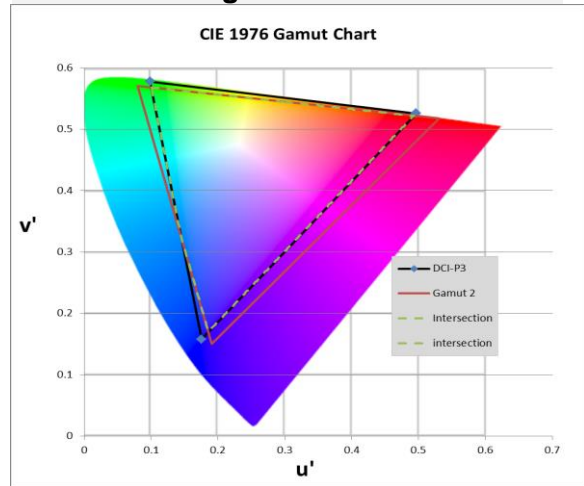
**DCI-P3 Coverage u'v' for the 10% Patch**



**BT.709 Coverage u'v' for Full screen**



**DCI-P3 Coverage u'v' for Full screen**





**Test Results-HDR 1000      Port : USB-C      2560x1440      60 Hz      RGB**

ID	Pass / Fail	Comment or Value																																																												
5.1.1 Minimum-white Luminance– 10% Center Patch Test	Pass	Minimum of all samples: <b>1169.61</b> nits Maximum range between high and low <10% : <b>2.8%</b>  Detailed Measured Value <table border="1"> <tr><td>1</td><td>1202.80</td><td>16</td><td>1173.84</td></tr> <tr><td>2</td><td>1191.44</td><td>17</td><td>1173.53</td></tr> <tr><td>3</td><td>1182.76</td><td>18</td><td>1173.19</td></tr> <tr><td>4</td><td>1177.05</td><td>19</td><td>1175.37</td></tr> <tr><td>5</td><td>1172.59</td><td>20</td><td>1178.89</td></tr> <tr><td>6</td><td>1170.73</td><td>21</td><td>1179.36</td></tr> <tr><td>7</td><td>1169.61</td><td>22</td><td>1179.40</td></tr> <tr><td>8</td><td>1169.91</td><td>23</td><td>1178.68</td></tr> <tr><td>9</td><td>1173.60</td><td>24</td><td>1178.77</td></tr> <tr><td>10</td><td>1172.93</td><td>25</td><td>1178.31</td></tr> <tr><td>11</td><td>1172.90</td><td>26</td><td>1177.87</td></tr> <tr><td>12</td><td>1172.90</td><td>27</td><td>1178.05</td></tr> <tr><td>13</td><td>1171.43</td><td>28</td><td>1177.06</td></tr> <tr><td>14</td><td>1173.86</td><td>29</td><td>1177.80</td></tr> <tr><td>15</td><td>1174.13</td><td>30</td><td>1177.50</td></tr> </table> <p><b>Criteria:</b> Please refer to P.30 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	1202.80	16	1173.84	2	1191.44	17	1173.53	3	1182.76	18	1173.19	4	1177.05	19	1175.37	5	1172.59	20	1178.89	6	1170.73	21	1179.36	7	1169.61	22	1179.40	8	1169.91	23	1178.68	9	1173.60	24	1178.77	10	1172.93	25	1178.31	11	1172.90	26	1177.87	12	1172.90	27	1178.05	13	1171.43	28	1177.06	14	1173.86	29	1177.80	15	1174.13	30	1177.50
1	1202.80	16	1173.84																																																											
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14	1173.86	29	1177.80																																																											
15	1174.13	30	1177.50																																																											
5.1.2 Minimum-white Luminance– Full-screen Flash Test	Pass	Minimum of all samples: <b>1282.37</b> nits  Detailed Measured Value <table border="1"> <tr><td>1</td><td>1317.49</td></tr> <tr><td>2</td><td>1319.25</td></tr> <tr><td>3</td><td>1323.31</td></tr> <tr><td>4</td><td>1282.37</td></tr> <tr><td>5</td><td>1326.41</td></tr> </table> <p><b>Criteria:</b> Please refer to P.31 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	1317.49	2	1319.25	3	1323.31	4	1282.37	5	1326.41																																																		
1	1317.49																																																													
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3	1323.31																																																													
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5	1326.41																																																													



ID	Pass / Fail	Comment or Value																																																												
5.1.3 Minimum-white Luminance– Full-screen Long-duration Test	Pass	<p>Minimum of all samples: <b>1303.84</b> nits</p> <p>Detailed Measured Value</p> <table border="1"> <tr><td>1</td><td>1368.82</td><td>16</td><td>1333.51</td></tr> <tr><td>2</td><td>1361.29</td><td>17</td><td>1331.23</td></tr> <tr><td>3</td><td>1358.50</td><td>18</td><td>1329.71</td></tr> <tr><td>4</td><td>1357.12</td><td>19</td><td>1326.66</td></tr> <tr><td>5</td><td>1356.62</td><td>20</td><td>1327.25</td></tr> <tr><td>6</td><td>1354.64</td><td>21</td><td>1324.10</td></tr> <tr><td>7</td><td>1351.20</td><td>22</td><td>1321.45</td></tr> <tr><td>8</td><td>1350.15</td><td>23</td><td>1319.91</td></tr> <tr><td>9</td><td>1347.66</td><td>24</td><td>1317.30</td></tr> <tr><td>10</td><td>1345.97</td><td>25</td><td>1316.43</td></tr> <tr><td>11</td><td>1345.54</td><td>26</td><td>1313.10</td></tr> <tr><td>12</td><td>1342.28</td><td>27</td><td>1310.23</td></tr> <tr><td>13</td><td>1340.14</td><td>28</td><td>1308.43</td></tr> <tr><td>14</td><td>1338.40</td><td>29</td><td>1305.71</td></tr> <tr><td>15</td><td>1336.87</td><td>30</td><td>1303.84</td></tr> </table> <p><b>Criteria:</b> Please refer to P.32 of VESA DisplayHDR CTS Ver 1.1 for details.</p>	1	1368.82	16	1333.51	2	1361.29	17	1331.23	3	1358.50	18	1329.71	4	1357.12	19	1326.66	5	1356.62	20	1327.25	6	1354.64	21	1324.10	7	1351.20	22	1321.45	8	1350.15	23	1319.91	9	1347.66	24	1317.30	10	1345.97	25	1316.43	11	1345.54	26	1313.10	12	1342.28	27	1310.23	13	1340.14	28	1308.43	14	1338.40	29	1305.71	15	1336.87	30	1303.84
1	1368.82	16	1333.51																																																											
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15	1336.87	30	1303.84																																																											
5.2.1 Dual Corner Box Test Black-level Test	Pass	<p>Screen center value: <b>0.0171</b> nits                      White corners value: <b>1189.54</b> nits</p> <p>Detailed Measured Value</p> <table border="1"> <tr><td>Center</td><td>0.0171</td></tr> <tr><td>Left</td><td>1227.94</td></tr> <tr><td>Right</td><td>1189.54</td></tr> </table> <p><b>Criteria:</b> Please refer to P.34 of VESA Display HDR CTS Ver 1.1 for details.</p>	Center	0.0171	Left	1227.94	Right	1189.54																																																						
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ID	Pass / Fail	Comment or Value																												
5.2.2 Checkerboard tests Black-level Test	Pass	<p>Active Dimming Stops Required at 50 cd/m<sup>2</sup> :  <b>13.18</b></p> <p>Active Dimming Stops Required at 5 cd/m<sup>2</sup> :  <b>14.33</b></p> <p><i>Detailed Measured Value</i>                      Active Dimming at 50 cd/m<sup>2</sup> :</p> <table border="1"> <tr><td>Top White</td><td>49.44</td></tr> <tr><td>Bottom White</td><td>52.09</td></tr> <tr><td>Top Black</td><td>0.1197</td></tr> <tr><td>Bottom Black</td><td>0.1333</td></tr> </table> <p>Active Dimming at 5 cd/m<sup>2</sup> :</p> <table border="1"> <tr><td>Top White</td><td>5.17</td></tr> <tr><td>Bottom White</td><td>5.48</td></tr> <tr><td>Top Black</td><td>0.0497</td></tr> <tr><td>Bottom Black</td><td>0.0642</td></tr> </table> <p><b>Criteria:</b>                      Please refer to P.39 of VESA Display HDR CTS Ver 1.1 for details.</p>	Top White	49.44	Bottom White	52.09	Top Black	0.1197	Bottom Black	0.1333	Top White	5.17	Bottom White	5.48	Top Black	0.0497	Bottom Black	0.0642												
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Bottom White	5.48																													
Top Black	0.0497																													
Bottom Black	0.0642																													
6.1 Color Gamut Specifications	Pass	<p>10% Patch Color Luminance Sum: <b>1202</b> nits                      BT.709 Coverage u'v' : <b>99.22%</b>                      DCI-P3 Coverage u'v' : <b>95.57%</b></p> <table border="1"> <thead> <tr><th></th><th>x</th><th>y</th><th>Luminance</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.6921</td><td>0.3002</td><td>257.50</td></tr> <tr><td>Green</td><td>0.2115</td><td>0.6813</td><td>849.52</td></tr> <tr><td>Blue</td><td>0.1594</td><td>0.0539</td><td>95.20</td></tr> </tbody> </table> <table border="1"> <thead> <tr><th></th><th>u'</th><th>v'</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.53050</td><td>0.51780</td></tr> <tr><td>Green</td><td>0.07868</td><td>0.57026</td></tr> <tr><td>Blue</td><td>0.19158</td><td>0.14579</td></tr> </tbody> </table> <p>Full Screen Color Luminance Sum: <b>1368</b> nits                      BT.709 Coverage u'v' : <b>99.10%</b>                      DCI-P3 Coverage u'v' : <b>95.63%</b></p>		x	y	Luminance	Red	0.6921	0.3002	257.50	Green	0.2115	0.6813	849.52	Blue	0.1594	0.0539	95.20		u'	v'	Red	0.53050	0.51780	Green	0.07868	0.57026	Blue	0.19158	0.14579
	x	y	Luminance																											
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ID	Pass / Fail	Comment or Value																												
6.1 Color Gamut Specifications		<p>Full Screen Color detail value</p> <table border="1"> <thead> <tr> <th></th> <th>x</th> <th>y</th> <th>Luminance</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>0.6928</td> <td>0.3003</td> <td>305.69</td> </tr> <tr> <td>Green</td> <td>0.2136</td> <td>0.6833</td> <td>957.38</td> </tr> <tr> <td>Blue</td> <td>0.1603</td> <td>0.0559</td> <td>105.09</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th>u'</th> <th>v'</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>0.53105</td> <td>0.51798</td> </tr> <tr> <td>Green</td> <td>0.07930</td> <td>0.57087</td> </tr> <tr> <td>Blue</td> <td>0.19140</td> <td>0.15014</td> </tr> </tbody> </table> <p>Please refer to P.15 of report for coverage picture.</p> <p><b>Criteria:</b> Please refer to P.40 of VESA Display HDR CTS Ver 1.1 for details.</p>		x	y	Luminance	Red	0.6928	0.3003	305.69	Green	0.2136	0.6833	957.38	Blue	0.1603	0.0559	105.09		u'	v'	Red	0.53105	0.51798	Green	0.07930	0.57087	Blue	0.19140	0.15014
	x	y	Luminance																											
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7.1 Bit-depth Specification	Pass	<p>Driver IC Display Claims (Min) <b>8+2</b> bits</p> <p><b>Criteria:</b> Please refer to P.44 of VESA Display HDR CTS Ver 1.1 for details.</p>																												
8.3 Rise-time Specifications	Pass	<p>Rise Time (Max) at 60 refresh rate(Hz): <b>18 ms</b> Measuring 5 sequential rises.</p> <table border="1"> <tbody> <tr><td>1</td><td>18</td></tr> <tr><td>2</td><td>18</td></tr> <tr><td>3</td><td>18</td></tr> <tr><td>4</td><td>18</td></tr> <tr><td>5</td><td>18</td></tr> </tbody> </table> <p><b>Criteria:</b> Please refer to P.48 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	18	2	18	3	18	4	18	5	18																		
1	18																													
2	18																													
3	18																													
4	18																													
5	18																													

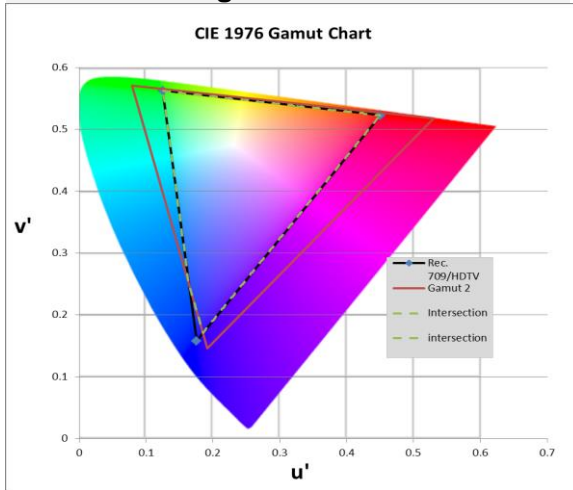


ID	Pass / Fail	Comment or Value																																	
9.3 Luminance and White Point Accuracy	Pass	<p><b>Delta-ITP Value</b></p> <table border="1"> <tr><td>5.172 cd/m2</td><td>9.5</td></tr> <tr><td>14.958 cd/m2</td><td>12.6</td></tr> <tr><td>50.825 cd/m2</td><td>11.9</td></tr> <tr><td>100.23 cd/m2</td><td>11.3</td></tr> <tr><td>199.15 cd/m2</td><td>11.5</td></tr> <tr><td>50% of Tier Level Maximum</td><td>11.30</td></tr> </table> <p><b>Detailed Measured Value</b></p> <table border="1"> <thead> <tr><th>x</th><th>y</th><th>Y</th></tr> </thead> <tbody> <tr><td>0.2923</td><td>0.3096</td><td>5.61</td></tr> <tr><td>0.2924</td><td>0.3100</td><td>16.97</td></tr> <tr><td>0.2930</td><td>0.3107</td><td>54.57</td></tr> <tr><td>0.2933</td><td>0.3109</td><td>97.13</td></tr> <tr><td>0.2935</td><td>0.3112</td><td>201.29</td></tr> <tr><td>0.2951</td><td>0.3127</td><td>520.28</td></tr> </tbody> </table> <p><b>Criteria:</b> Please refer to P.52 of VESA Display HDR CTS Ver 1.1 for details.</p>	5.172 cd/m2	9.5	14.958 cd/m2	12.6	50.825 cd/m2	11.9	100.23 cd/m2	11.3	199.15 cd/m2	11.5	50% of Tier Level Maximum	11.30	x	y	Y	0.2923	0.3096	5.61	0.2924	0.3100	16.97	0.2930	0.3107	54.57	0.2933	0.3109	97.13	0.2935	0.3112	201.29	0.2951	0.3127	520.28
5.172 cd/m2	9.5																																		
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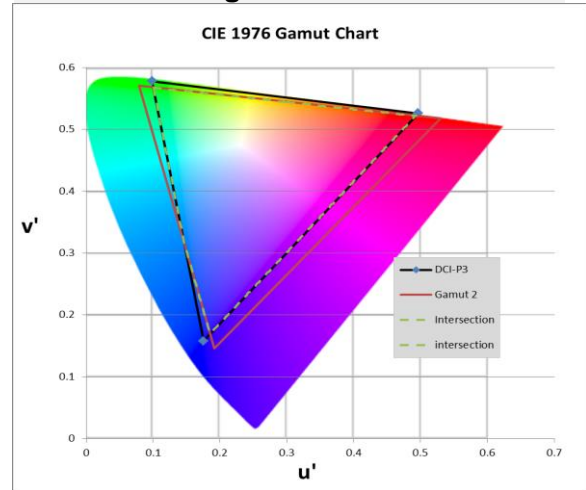


## USB-C

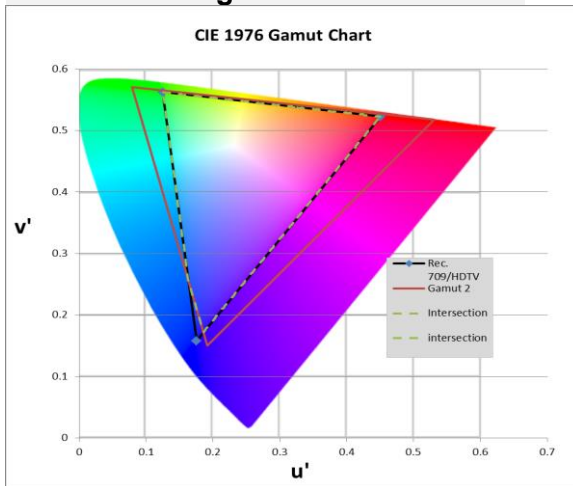
**BT.709 Coverage u'v' for the 10% Patch**



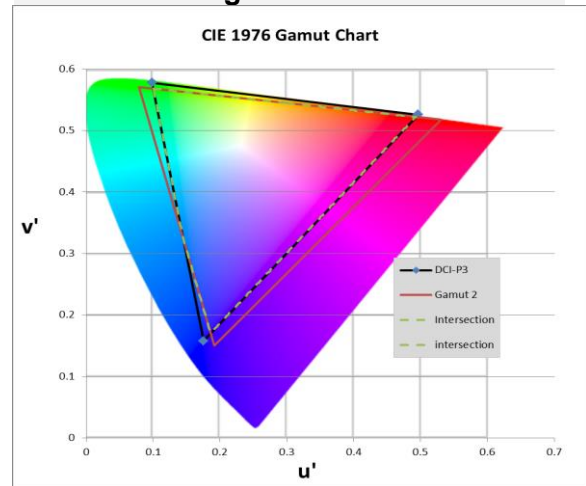
**DCI-P3 Coverage u'v' for the 10% Patch**



**BT.709 Coverage u'v' for Full screen**



**DCI-P3 Coverage u'v' for Full screen**







**Test Results-HDR 1000      Port : HDMI1      2560x1440      60 Hz      RGB**

ID	Pass / Fail	Comment or Value																																																												
5.1.1 Minimum-white Luminance– 10% Center Patch Test	Pass	<p>Minimum of all samples:    <b>1134.54</b> nits                      Maximum range between high and low &lt;10% :  <b>3.6%</b></p> <p>Detailed Measured Value</p> <table border="1"> <tr><td>1</td><td>1175.13</td><td>16</td><td>1138.91</td></tr> <tr><td>2</td><td>1169.88</td><td>17</td><td>1136.72</td></tr> <tr><td>3</td><td>1163.02</td><td>18</td><td>1135.67</td></tr> <tr><td>4</td><td>1150.14</td><td>19</td><td>1135.38</td></tr> <tr><td>5</td><td>1149.33</td><td>20</td><td>1135.99</td></tr> <tr><td>6</td><td>1145.09</td><td>21</td><td>1137.30</td></tr> <tr><td>7</td><td>1143.14</td><td>22</td><td>1136.13</td></tr> <tr><td>8</td><td>1141.54</td><td>23</td><td>1135.02</td></tr> <tr><td>9</td><td>1141.09</td><td>24</td><td>1134.83</td></tr> <tr><td>10</td><td>1139.39</td><td>25</td><td>1136.07</td></tr> <tr><td>11</td><td>1139.91</td><td>26</td><td>1134.54</td></tr> <tr><td>12</td><td>1139.94</td><td>27</td><td>1136.51</td></tr> <tr><td>13</td><td>1139.13</td><td>28</td><td>1136.51</td></tr> <tr><td>14</td><td>1138.35</td><td>29</td><td>1136.65</td></tr> <tr><td>15</td><td>1138.83</td><td>30</td><td>1136.22</td></tr> </table> <p><b>Criteria:</b>                      Please refer to P.30 of VESA Display HDR CTS                      Ver 1.1 for details.</p>	1	1175.13	16	1138.91	2	1169.88	17	1136.72	3	1163.02	18	1135.67	4	1150.14	19	1135.38	5	1149.33	20	1135.99	6	1145.09	21	1137.30	7	1143.14	22	1136.13	8	1141.54	23	1135.02	9	1141.09	24	1134.83	10	1139.39	25	1136.07	11	1139.91	26	1134.54	12	1139.94	27	1136.51	13	1139.13	28	1136.51	14	1138.35	29	1136.65	15	1138.83	30	1136.22
1	1175.13	16	1138.91																																																											
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5.1.2 Minimum-white Luminance– Full-screen Flash Test	Pass	<p>Minimum of all samples:    <b>1261.29</b> nits</p> <p>Detailed Measured Value</p> <table border="1"> <tr><td>1</td><td>1261.29</td></tr> <tr><td>2</td><td>1263.80</td></tr> <tr><td>3</td><td>1266.33</td></tr> <tr><td>4</td><td>1266.42</td></tr> <tr><td>5</td><td>1267.46</td></tr> </table> <p><b>Criteria:</b>                      Please refer to P.31 of VESA Display HDR CTS                      Ver 1.1 for details.</p>	1	1261.29	2	1263.80	3	1266.33	4	1266.42	5	1267.46																																																		
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5	1267.46																																																													



ID	Pass / Fail	Comment or Value																																																												
5.1.3 Minimum-white Luminance– Full-screen Long-duration Test	Pass	Minimum of all samples: <b>1273.41</b> nits  Detailed Measured Value <table border="1"> <tr><td>1</td><td>1327.31</td><td>16</td><td>1298.47</td></tr> <tr><td>2</td><td>1324.45</td><td>17</td><td>1296.63</td></tr> <tr><td>3</td><td>1322.91</td><td>18</td><td>1297.52</td></tr> <tr><td>4</td><td>1319.09</td><td>19</td><td>1294.42</td></tr> <tr><td>5</td><td>1317.68</td><td>20</td><td>1292.63</td></tr> <tr><td>6</td><td>1318.91</td><td>21</td><td>1290.94</td></tr> <tr><td>7</td><td>1315.15</td><td>22</td><td>1287.50</td></tr> <tr><td>8</td><td>1314.46</td><td>23</td><td>1284.61</td></tr> <tr><td>9</td><td>1312.63</td><td>24</td><td>1286.03</td></tr> <tr><td>10</td><td>1309.75</td><td>25</td><td>1283.11</td></tr> <tr><td>11</td><td>1307.79</td><td>26</td><td>1279.86</td></tr> <tr><td>12</td><td>1306.08</td><td>27</td><td>1279.45</td></tr> <tr><td>13</td><td>1304.99</td><td>28</td><td>1276.36</td></tr> <tr><td>14</td><td>1302.33</td><td>29</td><td>1274.57</td></tr> <tr><td>15</td><td>1300.84</td><td>30</td><td>1273.41</td></tr> </table> <p><b>Criteria:</b> Please refer to P.32 of VESA DisplayHDR CTS Ver 1.1 for details.</p>	1	1327.31	16	1298.47	2	1324.45	17	1296.63	3	1322.91	18	1297.52	4	1319.09	19	1294.42	5	1317.68	20	1292.63	6	1318.91	21	1290.94	7	1315.15	22	1287.50	8	1314.46	23	1284.61	9	1312.63	24	1286.03	10	1309.75	25	1283.11	11	1307.79	26	1279.86	12	1306.08	27	1279.45	13	1304.99	28	1276.36	14	1302.33	29	1274.57	15	1300.84	30	1273.41
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5.2.1 Dual Corner Box Test Black-level Test	Pass	Screen center value: <b>0.0165</b> nits White corners value: <b>1168.85</b> nits  Detailed Measured Value <table border="1"> <tr><td>Center</td><td>0.0165</td></tr> <tr><td>Left</td><td>1168.85</td></tr> <tr><td>Right</td><td>1183.28</td></tr> </table> <p><b>Criteria:</b> Please refer to P.34 of VESA Display HDR CTS Ver 1.1 for details.</p>	Center	0.0165	Left	1168.85	Right	1183.28																																																						
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ID	Pass / Fail	Comment or Value																												
5.2.2 Checkerboard tests Black-level Test	Pass	<p>Active Dimming Stops Required at 50 cd/m<sup>2</sup> :  <b>13.11</b></p> <p>Active Dimming Stops Required at 5 cd/m<sup>2</sup> :  <b>14.33</b></p> <p><i>Detailed Measured Value</i>                      Active Dimming at 50 cd/m<sup>2</sup> :</p> <table border="1"> <tr><td>Top White</td><td>49.95</td></tr> <tr><td>Bottom White</td><td>52.38</td></tr> <tr><td>Top Black</td><td>0.1215</td></tr> <tr><td>Bottom Black</td><td>0.1367</td></tr> </table> <p>Active Dimming at 5 cd/m<sup>2</sup> :</p> <table border="1"> <tr><td>Top White</td><td>5.19</td></tr> <tr><td>Bottom White</td><td>5.49</td></tr> <tr><td>Top Black</td><td>0.0505</td></tr> <tr><td>Bottom Black</td><td>0.0604</td></tr> </table> <p><b>Criteria:</b>                      Please refer to P.39 of VESA Display HDR CTS Ver 1.1 for details.</p>	Top White	49.95	Bottom White	52.38	Top Black	0.1215	Bottom Black	0.1367	Top White	5.19	Bottom White	5.49	Top Black	0.0505	Bottom Black	0.0604												
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Top Black	0.0505																													
Bottom Black	0.0604																													
6.1 Color Gamut Specifications	Pass	<p>10% Patch Color Luminance Sum: <b>1124</b> nits                      BT.709 Coverage u'v' : <b>99.21%</b>                      DCI-P3 Coverage u'v' : <b>95.46%</b></p> <table border="1"> <thead> <tr><th></th><th>x</th><th>y</th><th>Luminance</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.6920</td><td>0.2999</td><td>235.06</td></tr> <tr><td>Green</td><td>0.2132</td><td>0.6789</td><td>799.18</td></tr> <tr><td>Blue</td><td>0.1593</td><td>0.0535</td><td>89.94</td></tr> </tbody> </table> <table border="1"> <thead> <tr><th></th><th>u'</th><th>v'</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.53079</td><td>0.51757</td></tr> <tr><td>Green</td><td>0.07954</td><td>0.56995</td></tr> <tr><td>Blue</td><td>0.19168</td><td>0.14498</td></tr> </tbody> </table> <p>Full Screen Color Luminance Sum: <b>1311</b> nits                      BT.709 Coverage u'v' : <b>99.09%</b>                      DCI-P3 Coverage u'v' : <b>95.64%</b></p>		x	y	Luminance	Red	0.6920	0.2999	235.06	Green	0.2132	0.6789	799.18	Blue	0.1593	0.0535	89.94		u'	v'	Red	0.53079	0.51757	Green	0.07954	0.56995	Blue	0.19168	0.14498
	x	y	Luminance																											
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ID	Pass / Fail	Comment or Value																												
6.1 Color Gamut Specifications		<p>Full Screen Color detail value</p> <table border="1"> <thead> <tr> <th></th> <th>x</th> <th>y</th> <th>Luminance</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>0.6926</td> <td>0.3003</td> <td>291.20</td> </tr> <tr> <td>Green</td> <td>0.2141</td> <td>0.6834</td> <td>919.07</td> </tr> <tr> <td>Blue</td> <td>0.1602</td> <td>0.0556</td> <td>100.83</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th>u'</th> <th>v'</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>0.53082</td> <td>0.51794</td> </tr> <tr> <td>Green</td> <td>0.07949</td> <td>0.57094</td> </tr> <tr> <td>Blue</td> <td>0.19156</td> <td>0.14943</td> </tr> </tbody> </table> <p>Please refer to P.21 of report for coverage picture.</p> <p><b>Criteria:</b> Please refer to P.40 of VESA Display HDR CTS Ver 1.1 for details.</p>		x	y	Luminance	Red	0.6926	0.3003	291.20	Green	0.2141	0.6834	919.07	Blue	0.1602	0.0556	100.83		u'	v'	Red	0.53082	0.51794	Green	0.07949	0.57094	Blue	0.19156	0.14943
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7.1 Bit-depth Specification	Pass	<p>Driver IC Display Claims (Min) <b>8+2</b> bits</p> <p><b>Criteria:</b> Please refer to P.44 of VESA Display HDR CTS Ver 1.1 for details.</p>																												
8.3 Rise-time Specifications	Pass	<p>Rise Time (Max) at 60 refresh rate(Hz): <b>18 ms</b> Measuring 5 sequential rises.</p> <table border="1"> <tbody> <tr><td>1</td><td>18</td></tr> <tr><td>2</td><td>18</td></tr> <tr><td>3</td><td>18</td></tr> <tr><td>4</td><td>18</td></tr> <tr><td>5</td><td>18</td></tr> </tbody> </table> <p><b>Criteria:</b> Please refer to P.48 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	18	2	18	3	18	4	18	5	18																		
1	18																													
2	18																													
3	18																													
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5	18																													

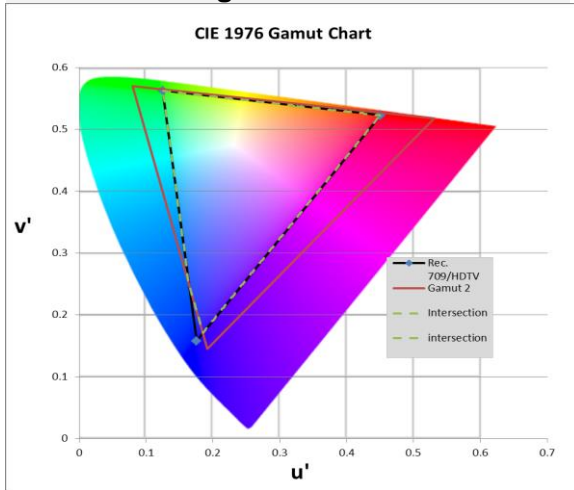


ID	Pass / Fail	Comment or Value																																	
9.3 Luminance and White Point Accuracy	Pass	<p><b>Delta-ITP Value</b></p> <table border="1"> <tr><td>5.172 cd/m2</td><td>9.6</td></tr> <tr><td>14.958 cd/m2</td><td>12.2</td></tr> <tr><td>50.825 cd/m2</td><td>12.3</td></tr> <tr><td>100.23 cd/m2</td><td>13.6</td></tr> <tr><td>199.15 cd/m2</td><td>13.2</td></tr> <tr><td>50% of Tier Level Maximum</td><td>12.31</td></tr> </table> <p><b>Detailed Measured Value</b></p> <table border="1"> <thead> <tr><th>x</th><th>y</th><th>Y</th></tr> </thead> <tbody> <tr><td>0.2898</td><td>0.3083</td><td>5.35</td></tr> <tr><td>0.2899</td><td>0.3086</td><td>16.26</td></tr> <tr><td>0.2904</td><td>0.3093</td><td>52.28</td></tr> <tr><td>0.2906</td><td>0.3092</td><td>93.00</td></tr> <tr><td>0.2909</td><td>0.3097</td><td>191.71</td></tr> <tr><td>0.2926</td><td>0.3113</td><td>494.62</td></tr> </tbody> </table> <p><b>Criteria:</b> Please refer to P.52 of VESA Display HDR CTS Ver 1.1 for details.</p>	5.172 cd/m2	9.6	14.958 cd/m2	12.2	50.825 cd/m2	12.3	100.23 cd/m2	13.6	199.15 cd/m2	13.2	50% of Tier Level Maximum	12.31	x	y	Y	0.2898	0.3083	5.35	0.2899	0.3086	16.26	0.2904	0.3093	52.28	0.2906	0.3092	93.00	0.2909	0.3097	191.71	0.2926	0.3113	494.62
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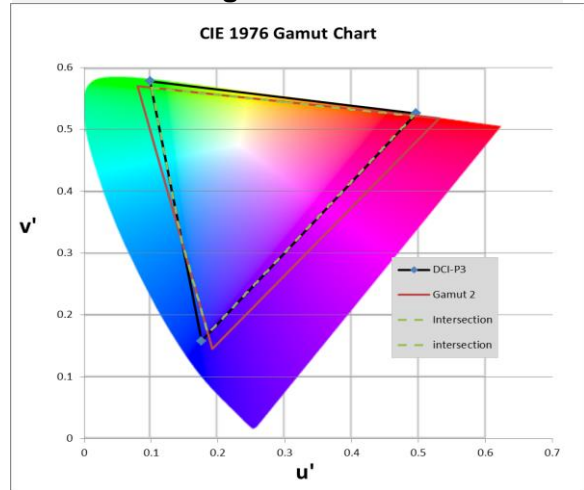


## HDMI1

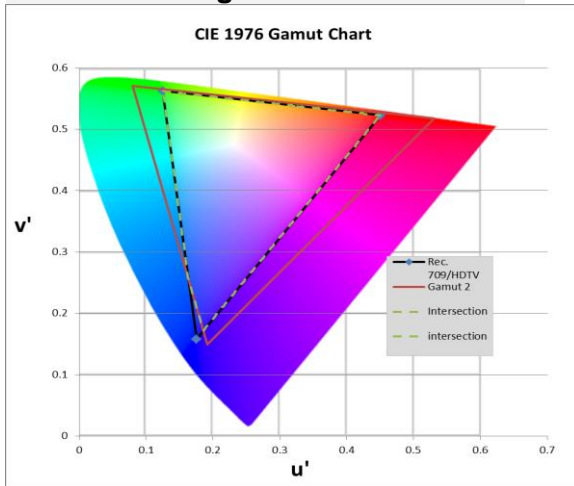
**BT.709 Coverage u'v' for the 10% Patch**



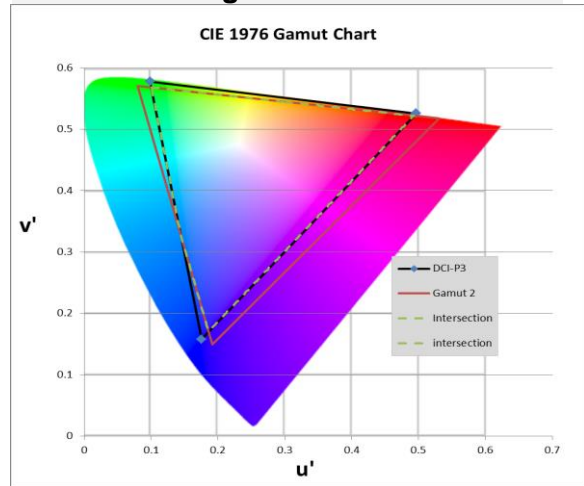
**DCI-P3 Coverage u'v' for the 10% Patch**



**BT.709 Coverage u'v' for Full screen**



**DCI-P3 Coverage u'v' for Full screen**





**Test Results-HDR 1000    Port : HDMI2    2560x1440    60 Hz    RGB**

ID	Pass / Fail	Comment or Value																																																												
5.1.1 Minimum-white Luminance– 10% Center Patch Test	Pass	Minimum of all samples: <b>1125.10</b> nits Maximum range between high and low <10% : <b>3.5%</b>  Detailed Measured Value <table border="1"> <tr><td>1</td><td>1164.33</td><td>16</td><td>1129.99</td></tr> <tr><td>2</td><td>1153.93</td><td>17</td><td>1129.68</td></tr> <tr><td>3</td><td>1143.56</td><td>18</td><td>1131.98</td></tr> <tr><td>4</td><td>1136.87</td><td>19</td><td>1129.77</td></tr> <tr><td>5</td><td>1133.70</td><td>20</td><td>1131.19</td></tr> <tr><td>6</td><td>1132.27</td><td>21</td><td>1130.80</td></tr> <tr><td>7</td><td>1128.95</td><td>22</td><td>1129.31</td></tr> <tr><td>8</td><td>1129.75</td><td>23</td><td>1130.69</td></tr> <tr><td>9</td><td>1127.36</td><td>24</td><td>1130.74</td></tr> <tr><td>10</td><td>1126.69</td><td>25</td><td>1131.30</td></tr> <tr><td>11</td><td>1126.59</td><td>26</td><td>1131.91</td></tr> <tr><td>12</td><td>1125.10</td><td>27</td><td>1130.73</td></tr> <tr><td>13</td><td>1126.79</td><td>28</td><td>1132.23</td></tr> <tr><td>14</td><td>1127.64</td><td>29</td><td>1132.40</td></tr> <tr><td>15</td><td>1128.86</td><td>30</td><td>1132.31</td></tr> </table> <p><b>Criteria:</b> Please refer to P.30 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	1164.33	16	1129.99	2	1153.93	17	1129.68	3	1143.56	18	1131.98	4	1136.87	19	1129.77	5	1133.70	20	1131.19	6	1132.27	21	1130.80	7	1128.95	22	1129.31	8	1129.75	23	1130.69	9	1127.36	24	1130.74	10	1126.69	25	1131.30	11	1126.59	26	1131.91	12	1125.10	27	1130.73	13	1126.79	28	1132.23	14	1127.64	29	1132.40	15	1128.86	30	1132.31
1	1164.33	16	1129.99																																																											
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15	1128.86	30	1132.31																																																											
5.1.2 Minimum-white Luminance– Full-screen Flash Test	Pass	Minimum of all samples: <b>1282.83</b> nits  Detailed Measured Value <table border="1"> <tr><td>1</td><td>1282.83</td></tr> <tr><td>2</td><td>1283.96</td></tr> <tr><td>3</td><td>1286.63</td></tr> <tr><td>4</td><td>1289.30</td></tr> <tr><td>5</td><td>1287.91</td></tr> </table> <p><b>Criteria:</b> Please refer to P.31 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	1282.83	2	1283.96	3	1286.63	4	1289.30	5	1287.91																																																		
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ID	Pass / Fail	Comment or Value																																																												
5.1.3 Minimum-white Luminance– Full-screen Long-duration Test	Pass	<p>Minimum of all samples: <b>1277.69</b> nits</p> <p>Detailed Measured Value</p> <table border="1"> <tr><td>1</td><td>1319.53</td><td>16</td><td>1302.74</td></tr> <tr><td>2</td><td>1319.60</td><td>17</td><td>1299.78</td></tr> <tr><td>3</td><td>1320.25</td><td>18</td><td>1299.49</td></tr> <tr><td>4</td><td>1320.17</td><td>19</td><td>1296.78</td></tr> <tr><td>5</td><td>1318.97</td><td>20</td><td>1296.39</td></tr> <tr><td>6</td><td>1319.60</td><td>21</td><td>1291.28</td></tr> <tr><td>7</td><td>1317.93</td><td>22</td><td>1292.32</td></tr> <tr><td>8</td><td>1315.91</td><td>23</td><td>1289.33</td></tr> <tr><td>9</td><td>1313.78</td><td>24</td><td>1288.27</td></tr> <tr><td>10</td><td>1311.31</td><td>25</td><td>1285.78</td></tr> <tr><td>11</td><td>1312.19</td><td>26</td><td>1283.61</td></tr> <tr><td>12</td><td>1308.27</td><td>27</td><td>1284.55</td></tr> <tr><td>13</td><td>1307.03</td><td>28</td><td>1280.67</td></tr> <tr><td>14</td><td>1304.11</td><td>29</td><td>1281.48</td></tr> <tr><td>15</td><td>1303.83</td><td>30</td><td>1277.69</td></tr> </table> <p><b>Criteria:</b> Please refer to P.32 of VESA DisplayHDR CTS Ver 1.1 for details.</p>	1	1319.53	16	1302.74	2	1319.60	17	1299.78	3	1320.25	18	1299.49	4	1320.17	19	1296.78	5	1318.97	20	1296.39	6	1319.60	21	1291.28	7	1317.93	22	1292.32	8	1315.91	23	1289.33	9	1313.78	24	1288.27	10	1311.31	25	1285.78	11	1312.19	26	1283.61	12	1308.27	27	1284.55	13	1307.03	28	1280.67	14	1304.11	29	1281.48	15	1303.83	30	1277.69
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15	1303.83	30	1277.69																																																											
5.2.1 Dual Corner Box Test Black-level Test	Pass	<p>Screen center value: <b>0.0173</b> nits White corners value: <b>1222.86</b> nits</p> <p>Detailed Measured Value</p> <table border="1"> <tr><td>Center</td><td>0.0173</td></tr> <tr><td>Left</td><td>1250.27</td></tr> <tr><td>Right</td><td>1222.86</td></tr> </table> <p><b>Criteria:</b> Please refer to P.34 of VESA Display HDR CTS Ver 1.1 for details.</p>	Center	0.0173	Left	1250.27	Right	1222.86																																																						
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5.2.2 Checkerboard tests Black-level Test	Pass	<p>Active Dimming Stops Required at 50 cd/m2 : <b>13.14</b></p> <p>Active Dimming Stops Required at 5 cd/m2 : <b>14.36</b></p> <p><i>Detailed Measured Value</i> Active Dimming at 50 cd/m2 :</p> <table border="1"> <tr><td>Top White</td><td>50.02</td></tr> <tr><td>Bottom White</td><td>53.39</td></tr> <tr><td>Top Black</td><td>0.1179</td></tr> <tr><td>Bottom Black</td><td>0.1339</td></tr> </table> <p>Active Dimming at 5 cd/m2 :</p> <table border="1"> <tr><td>Top White</td><td>5.17</td></tr> <tr><td>Bottom White</td><td>5.26</td></tr> <tr><td>Top Black</td><td>0.0476</td></tr> <tr><td>Bottom Black</td><td>0.0601</td></tr> </table> <p><b>Criteria:</b> Please refer to P.39 of VESA Display HDR CTS Ver 1.1 for details.</p>	Top White	50.02	Bottom White	53.39	Top Black	0.1179	Bottom Black	0.1339	Top White	5.17	Bottom White	5.26	Top Black	0.0476	Bottom Black	0.0601												
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6.1 Color Gamut Specifications	Pass	<p>10% Patch Color Luminance Sum: <b>1179</b> nits                      BT.709 Coverage u'v' : <b>99.3%</b>                      DCI-P3 Coverage u'v' : <b>95.8%</b></p> <table border="1"> <thead> <tr><th></th><th>x</th><th>y</th><th>Luminance</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.6917</td><td>0.3008</td><td>257.87</td></tr> <tr><td>Green</td><td>0.2093</td><td>0.6847</td><td>828.13</td></tr> <tr><td>Blue</td><td>0.1592</td><td>0.0536</td><td>93.21</td></tr> </tbody> </table> <table border="1"> <thead> <tr><th></th><th>u'</th><th>v'</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.52939</td><td>0.51804</td></tr> <tr><td>Green</td><td>0.07752</td><td>0.57070</td></tr> <tr><td>Blue</td><td>0.19145</td><td>0.14519</td></tr> </tbody> </table> <p>Full Screen Color Luminance Sum: <b>1348</b> nits                      BT.709 Coverage u'v' : <b>99.1%</b>                      DCI-P3 Coverage u'v' : <b>95.8%</b></p>		x	y	Luminance	Red	0.6917	0.3008	257.87	Green	0.2093	0.6847	828.13	Blue	0.1592	0.0536	93.21		u'	v'	Red	0.52939	0.51804	Green	0.07752	0.57070	Blue	0.19145	0.14519
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7.1 Bit-depth Specification	Pass	<p>Driver IC Display Claims (Min) <b>8+2</b> bits</p> <p><b>Criteria:</b> Please refer to P.44 of VESA Display HDR CTS Ver 1.1 for details.</p>																												
8.3 Rise-time Specifications	Pass	<p>Rise Time (Max) at 60 refresh rate(Hz): <b>18 ms</b> Measuring 5 sequential rises.</p> <table border="1"> <tbody> <tr><td>1</td><td>18</td></tr> <tr><td>2</td><td>18</td></tr> <tr><td>3</td><td>18</td></tr> <tr><td>4</td><td>18</td></tr> <tr><td>5</td><td>18</td></tr> </tbody> </table> <p><b>Criteria:</b> Please refer to P.48 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	18	2	18	3	18	4	18	5	18																		
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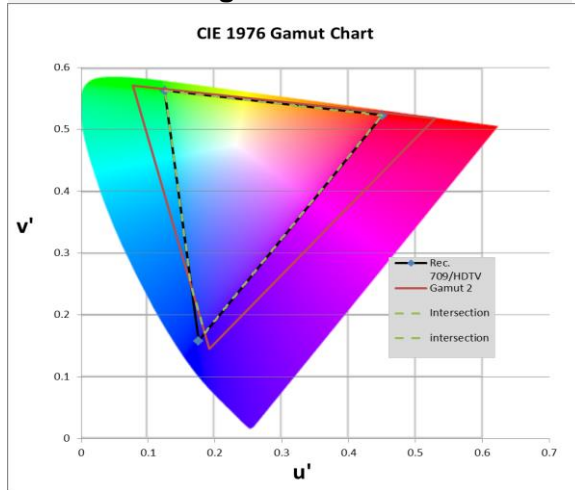


ID	Pass / Fail	Comment or Value																																	
9.3 Luminance and White Point Accuracy	Pass	<p><b>Delta-ITP Value</b></p> <table border="1"> <tr><td>5.172 cd/m2</td><td>7.3</td></tr> <tr><td>14.958 cd/m2</td><td>9.1</td></tr> <tr><td>50.825 cd/m2</td><td>9.7</td></tr> <tr><td>100.23 cd/m2</td><td>12.2</td></tr> <tr><td>199.15 cd/m2</td><td>11.1</td></tr> <tr><td>50% of Tier Level Maximum</td><td>9.92</td></tr> </table> <p><b>Detailed Measured Value</b></p> <table border="1"> <thead> <tr><th>x</th><th>y</th><th>Y</th></tr> </thead> <tbody> <tr><td>0.2949</td><td>0.3109</td><td>5.17</td></tr> <tr><td>0.2948</td><td>0.3109</td><td>15.62</td></tr> <tr><td>0.2949</td><td>0.3112</td><td>50.79</td></tr> <tr><td>0.2952</td><td>0.3114</td><td>90.66</td></tr> <tr><td>0.2953</td><td>0.3116</td><td>188.98</td></tr> <tr><td>0.2966</td><td>0.3129</td><td>496.32</td></tr> </tbody> </table> <p><b>Criteria:</b> Please refer to P.52 of VESA Display HDR CTS Ver 1.1 for details.</p>	5.172 cd/m2	7.3	14.958 cd/m2	9.1	50.825 cd/m2	9.7	100.23 cd/m2	12.2	199.15 cd/m2	11.1	50% of Tier Level Maximum	9.92	x	y	Y	0.2949	0.3109	5.17	0.2948	0.3109	15.62	0.2949	0.3112	50.79	0.2952	0.3114	90.66	0.2953	0.3116	188.98	0.2966	0.3129	496.32
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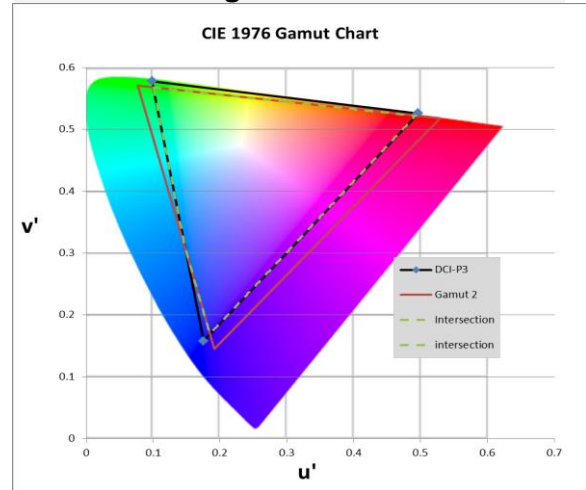


## HDMI2

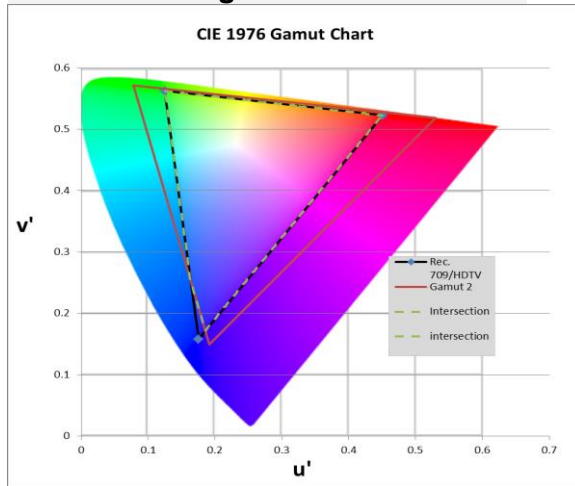
**BT.709 Coverage u'v' for the 10% Patch**



**DCI-P3 Coverage u'v' for the 10% Patch**



**BT.709 Coverage u'v' for Full screen**



**DCI-P3 Coverage u'v' for Full screen**

