

Test Report for VESA Display HDR

Company Name : Top Victory Investments Limited

Model Name : AOC AG274UXP

Display HDR Tier : 600

Test Start Date : 01/12/2021

Report Date : 02/04/2021

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: 10.,No.230.LianChen Rd., zhonghe City, Taipei County 23553 Taiwan

Contact

Name: Owen Hsiao

Phone Number: +886-02-8226-1668 ext. 2913

E-Mail: owen.hsiao@tpv-tech.com

Product Information:

Target HDR Tier: 600

Provided DUT Information Form: Yes No

Display Firmware Version: 20210121 V005

Panel Driver IC model name: SW98012A

Panel Driver IC FW: N/A

HDR mode OSD settings: Display HDR Auto on

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, HDMI 1, HDMI 2

All external inputs: DP x1, HDMI x2, USB-C x1(not support HDR)

Tester: Karen Chen

Authorized Signature: *Lexus Lee*

Overall Test Result: Pass

Project ID: MOR-AOC-VSH-112
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 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.

Exact product name(s) to be listed:	AOC AG274UXP
Date which the certified product listing should appear on the VESA site(s) [DD/MM/YYYY]	04/02/2021
Product URL to be hyperlinked to the certified product listing (if known)	N/A
<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
CS-2000a	Spectroradiometer	Konica Minolta	
K10-A	Light Measurement Device	Klein	
Intel UHD Graphics 630	Graphcis Card	Intel	Driver Ver. 27.20.100.9168
Windows 10x64	System OS	Microsoft	Ver 20H2 ,Build 19042
DPM Tool	Pattern tool	VESA	Ver 1.10
CA-410	Spectroradiometer	Konica Minolta	

Summary of Test Result

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



Test Results-HDR 600 Port : DP 3840x2160 60 Hz RGB

ID	Pass / Fail	Comment or Value																																																												
5.1.1 Minimum-white Luminance- 10% Center Patch Test	Pass	Minimum of all samples: 665.36 nits Maximum range between high and low <10% : 1.0% Detailed Measured Value <table border="1" data-bbox="794 611 1123 1126"> <tr><td>1</td><td>672.21</td><td>16</td><td>666.54</td></tr> <tr><td>2</td><td>667.77</td><td>17</td><td>666.53</td></tr> <tr><td>3</td><td>667.21</td><td>18</td><td>666.53</td></tr> <tr><td>4</td><td>667.18</td><td>19</td><td>666.60</td></tr> <tr><td>5</td><td>667.04</td><td>20</td><td>666.21</td></tr> <tr><td>6</td><td>667.17</td><td>21</td><td>666.02</td></tr> <tr><td>7</td><td>667.29</td><td>22</td><td>666.06</td></tr> <tr><td>8</td><td>667.37</td><td>23</td><td>665.95</td></tr> <tr><td>9</td><td>667.26</td><td>24</td><td>665.73</td></tr> <tr><td>10</td><td>667.39</td><td>25</td><td>665.60</td></tr> <tr><td>11</td><td>667.34</td><td>26</td><td>665.65</td></tr> <tr><td>12</td><td>667.07</td><td>27</td><td>665.82</td></tr> <tr><td>13</td><td>667.02</td><td>28</td><td>665.36</td></tr> <tr><td>14</td><td>667.27</td><td>29</td><td>665.44</td></tr> <tr><td>15</td><td>666.99</td><td>30</td><td>665.39</td></tr> </table> Criteria: Please refer to P.30 of VESA Display HDR CTS Ver 1.1 for details.	1	672.21	16	666.54	2	667.77	17	666.53	3	667.21	18	666.53	4	667.18	19	666.60	5	667.04	20	666.21	6	667.17	21	666.02	7	667.29	22	666.06	8	667.37	23	665.95	9	667.26	24	665.73	10	667.39	25	665.60	11	667.34	26	665.65	12	667.07	27	665.82	13	667.02	28	665.36	14	667.27	29	665.44	15	666.99	30	665.39
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5.1.2 Minimum-white Luminance- Full-screen Flash Test	Pass	Minimum of all samples: 688.03 nits Detailed Measured Value <table border="1" data-bbox="794 1431 948 1603"> <tr><td>1</td><td>688.03</td></tr> <tr><td>2</td><td>688.89</td></tr> <tr><td>3</td><td>689.24</td></tr> <tr><td>4</td><td>690.17</td></tr> <tr><td>5</td><td>689.91</td></tr> </table> Criteria: Please refer to P.31 of VESA Display HDR CTS Ver 1.1 for details.	1	688.03	2	688.89	3	689.24	4	690.17	5	689.91																																																		
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5.1.3 Minimum-white Luminance– Full-screen Long-duration Test	Pass	<p>Minimum of all samples: 674.38 nits</p> <p>Detailed Measured Value</p> <table border="1" data-bbox="794 510 1123 1021"> <tr><td>1</td><td>693.76</td><td>16</td><td>678.73</td></tr> <tr><td>2</td><td>684.99</td><td>17</td><td>678.43</td></tr> <tr><td>3</td><td>684.07</td><td>18</td><td>677.88</td></tr> <tr><td>4</td><td>684.07</td><td>19</td><td>677.55</td></tr> <tr><td>5</td><td>683.79</td><td>20</td><td>677.40</td></tr> <tr><td>6</td><td>682.97</td><td>21</td><td>676.67</td></tr> <tr><td>7</td><td>682.48</td><td>22</td><td>676.66</td></tr> <tr><td>8</td><td>681.98</td><td>23</td><td>676.21</td></tr> <tr><td>9</td><td>681.62</td><td>24</td><td>676.12</td></tr> <tr><td>10</td><td>681.10</td><td>25</td><td>675.73</td></tr> <tr><td>11</td><td>680.92</td><td>26</td><td>675.50</td></tr> <tr><td>12</td><td>680.38</td><td>27</td><td>675.06</td></tr> <tr><td>13</td><td>679.86</td><td>28</td><td>674.87</td></tr> <tr><td>14</td><td>679.47</td><td>29</td><td>674.55</td></tr> <tr><td>15</td><td>679.21</td><td>30</td><td>674.38</td></tr> </table> <p>Criteria: Please refer to P.32 of VESA display HDR CTS Ver 1.1 for details.</p>	1	693.76	16	678.73	2	684.99	17	678.43	3	684.07	18	677.88	4	684.07	19	677.55	5	683.79	20	677.40	6	682.97	21	676.67	7	682.48	22	676.66	8	681.98	23	676.21	9	681.62	24	676.12	10	681.10	25	675.73	11	680.92	26	675.50	12	680.38	27	675.06	13	679.86	28	674.87	14	679.47	29	674.55	15	679.21	30	674.38
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5.2.1 Dual Corner Box Test Black-level Test	Pass	<p>Screen center value: 0.01694 nits White corners value: 564.45 nits</p> <p>Detailed Measured Value</p> <table border="1" data-bbox="831 1361 1075 1464"> <tr><td>Center</td><td>0.02</td></tr> <tr><td>Left</td><td>618.5272</td></tr> <tr><td>Right</td><td>564.453</td></tr> </table> <p>Criteria: Please refer to P.34 of VESA Display HDR CTS Ver 1.1 for details.</p>	Center	0.02	Left	618.5272	Right	564.453																																																						
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5.2.2 Checkerboard tests Black-level Test	Pass	<p>Active Dimming Stops Required at 50 cd/m² : 12.37</p> <p>Active Dimming Stops Required at 5 cd/m² : 14.46</p> <p><i>Detailed Measured Value</i> Active Dimming at 50 cd/m² :</p> <table border="1" data-bbox="794 640 1075 779"> <tr><td>Top White</td><td>51.93</td></tr> <tr><td>Bottom White</td><td>53.09</td></tr> <tr><td>Top Black</td><td>0.1233</td></tr> <tr><td>Bottom Black</td><td>0.1281</td></tr> </table> <p>Active Dimming at 5 cd/m² :</p> <table border="1" data-bbox="794 846 1075 985"> <tr><td>Top White</td><td>5.24</td></tr> <tr><td>Bottom White</td><td>5.38</td></tr> <tr><td>Top Black</td><td>0.0290</td></tr> <tr><td>Bottom Black</td><td>0.0303</td></tr> </table> <p>Criteria: Please refer to P.39 of VESA Display HDR CTS Ver 1.1 for details.</p>	Top White	51.93	Bottom White	53.09	Top Black	0.1233	Bottom Black	0.1281	Top White	5.24	Bottom White	5.38	Top Black	0.0290	Bottom Black	0.0303												
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Bottom Black	0.0303																													
6.1 Color Gamut Specifications	Pass	<p>10% Patch Color Luminance Sum: 696.2 nits BT.709 Coverage u'v' : 99.99% DCI-P3 Coverage u'v' : 98.05%</p> <table border="1" data-bbox="794 1328 1251 1467"> <thead> <tr><th></th><th>x</th><th>y</th><th>Luminance</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.6740</td><td>0.3114</td><td>146.52</td></tr> <tr><td>Green</td><td>0.2653</td><td>0.6817</td><td>497.38</td></tr> <tr><td>Blue</td><td>0.1497</td><td>0.0547</td><td>52.32</td></tr> </tbody> </table> <table border="1" data-bbox="794 1467 1123 1606"> <thead> <tr><th></th><th>u'</th><th>v'</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.50030</td><td>0.52008</td></tr> <tr><td>Green</td><td>0.09965</td><td>0.57610</td></tr> <tr><td>Blue</td><td>0.17837</td><td>0.14665</td></tr> </tbody> </table> <p>Full Screen Color Luminance Sum: 693.6 nits BT.709 Coverage u'v' : 100.00% DCI-P3 Coverage u'v' : 98.07%</p>		x	y	Luminance	Red	0.6740	0.3114	146.52	Green	0.2653	0.6817	497.38	Blue	0.1497	0.0547	52.32		u'	v'	Red	0.50030	0.52008	Green	0.09965	0.57610	Blue	0.17837	0.14665
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6.1 Color Gamut Specifications		<p>Full Screen Color detail value</p> <table border="1" data-bbox="794 443 1251 577"> <thead> <tr> <th></th> <th>x</th> <th>y</th> <th>Luminance</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>0.6741</td> <td>0.3115</td> <td>146.92</td> </tr> <tr> <td>Green</td> <td>0.2656</td> <td>0.6813</td> <td>495.32</td> </tr> <tr> <td>Blue</td> <td>0.1496</td> <td>0.0550</td> <td>51.39</td> </tr> </tbody> </table> <table border="1" data-bbox="794 584 1123 714"> <thead> <tr> <th></th> <th>u'</th> <th>v'</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>0.50028</td> <td>0.52015</td> </tr> <tr> <td>Green</td> <td>0.09981</td> <td>0.57605</td> </tr> <tr> <td>Blue</td> <td>0.17805</td> <td>0.14729</td> </tr> </tbody> </table> <p>Please refer to P.9 of report for coverage picture.</p> <p>Criteria: Please refer to P.40 of VESA Display HDR CTS Ver 1.1 for details.</p>		x	y	Luminance	Red	0.6741	0.3115	146.92	Green	0.2656	0.6813	495.32	Blue	0.1496	0.0550	51.39		u'	v'	Red	0.50028	0.52015	Green	0.09981	0.57605	Blue	0.17805	0.14729
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7.1 Bit-depth Specification	Pass	<p>Driver IC Display Claims (Min) 8+2 bits</p> <p>Criteria: 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): 16 ms Measuring 5 sequential rises.</p> <table border="1" data-bbox="831 1503 991 1675"> <tbody> <tr><td>1</td><td>16</td></tr> <tr><td>2</td><td>13</td></tr> <tr><td>3</td><td>13</td></tr> <tr><td>4</td><td>16</td></tr> <tr><td>5</td><td>16</td></tr> </tbody> </table> <p>Criteria: Please refer to P.48 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	16	2	13	3	13	4	16	5	16																		
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4	16																													
5	16																													

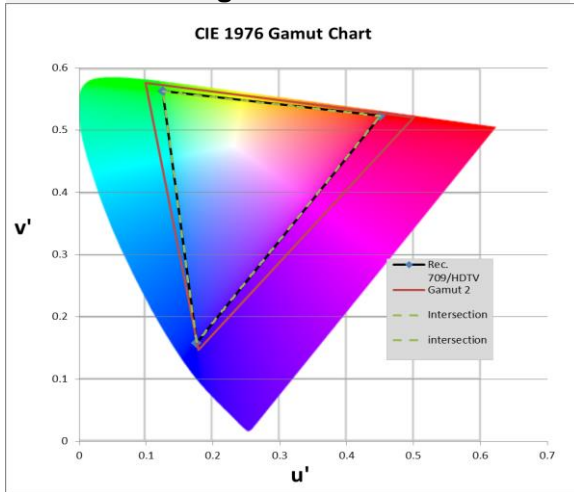


ID	Pass / Fail	Comment or Value																																	
9.3 Luminance and White Point Accuracy	Pass	<p>Delta-ITP Value</p> <table border="1"> <tr><td>5.172 cd/m2</td><td>2.2</td></tr> <tr><td>14.958 cd/m2</td><td>2.3</td></tr> <tr><td>50.825 cd/m2</td><td>3.2</td></tr> <tr><td>100.23 cd/m2</td><td>3.0</td></tr> <tr><td>199.15 cd/m2</td><td>3.5</td></tr> <tr><td>50% of Tier Level Maximum</td><td>3.41</td></tr> </table> <p>Detailed Measured Value</p> <table border="1"> <thead> <tr><th>x</th><th>y</th><th>Y</th></tr> </thead> <tbody> <tr><td>0.3129</td><td>0.3265</td><td>5.37</td></tr> <tr><td>0.3115</td><td>0.3252</td><td>15.44</td></tr> <tr><td>0.3111</td><td>0.3249</td><td>52.91</td></tr> <tr><td>0.3109</td><td>0.3247</td><td>103.69</td></tr> <tr><td>0.3100</td><td>0.3244</td><td>206.53</td></tr> <tr><td>0.3097</td><td>0.3240</td><td>309.48</td></tr> </tbody> </table> <p>Criteria: Please refer to P.52 of VESA Display HDR CTS Ver 1.1 for details.</p>	5.172 cd/m2	2.2	14.958 cd/m2	2.3	50.825 cd/m2	3.2	100.23 cd/m2	3.0	199.15 cd/m2	3.5	50% of Tier Level Maximum	3.41	x	y	Y	0.3129	0.3265	5.37	0.3115	0.3252	15.44	0.3111	0.3249	52.91	0.3109	0.3247	103.69	0.3100	0.3244	206.53	0.3097	0.3240	309.48
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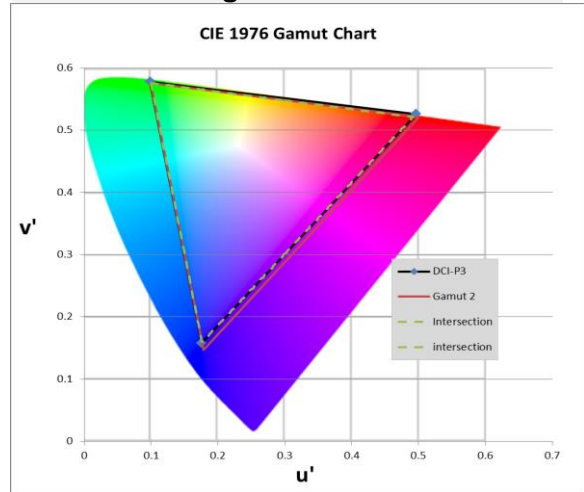


DP

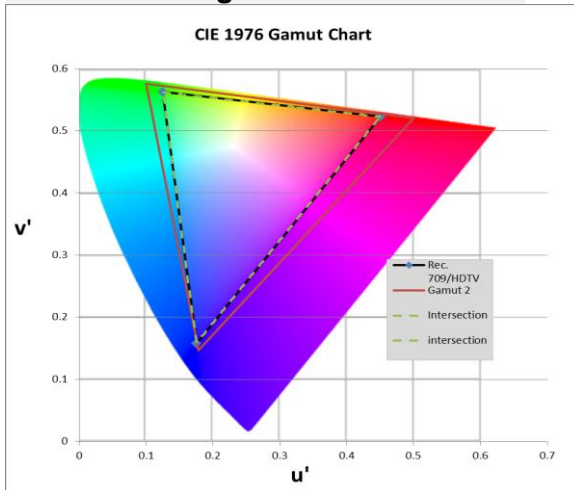
BT.709 Coverage u'v' for the 10% Patch



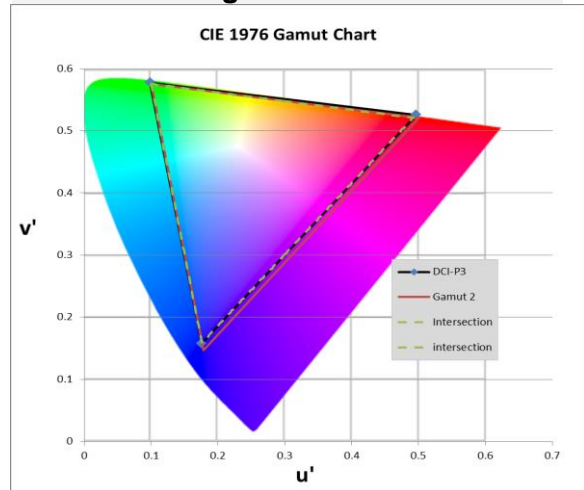
DCI-P3 Coverage u'v' for the 10% Patch



BT.709 Coverage u'v' for Full screen



DCI-P3 Coverage u'v' for Full screen





Test Results-HDR 600 Port : HDMI1 1920x1080 60 Hz RGB

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5.1.1 Minimum-white Luminance– 10% Center Patch Test	Pass	Minimum of all samples: 665.51 nits Maximum range between high and low <10% : 2.4% Detailed Measured Value <table border="1" data-bbox="794 611 1123 1124"> <tr><td>1</td><td>681.17</td><td>16</td><td>668.09</td></tr> <tr><td>2</td><td>670.88</td><td>17</td><td>667.84</td></tr> <tr><td>3</td><td>670.42</td><td>18</td><td>667.64</td></tr> <tr><td>4</td><td>669.97</td><td>19</td><td>667.49</td></tr> <tr><td>5</td><td>670.05</td><td>20</td><td>667.22</td></tr> <tr><td>6</td><td>669.96</td><td>21</td><td>667.15</td></tr> <tr><td>7</td><td>669.83</td><td>22</td><td>666.99</td></tr> <tr><td>8</td><td>669.56</td><td>23</td><td>666.43</td></tr> <tr><td>9</td><td>669.61</td><td>24</td><td>666.35</td></tr> <tr><td>10</td><td>669.49</td><td>25</td><td>666.45</td></tr> <tr><td>11</td><td>669.20</td><td>26</td><td>666.19</td></tr> <tr><td>12</td><td>668.79</td><td>27</td><td>665.98</td></tr> <tr><td>13</td><td>669.04</td><td>28</td><td>666.05</td></tr> <tr><td>14</td><td>668.49</td><td>29</td><td>665.57</td></tr> <tr><td>15</td><td>668.37</td><td>30</td><td>665.51</td></tr> </table> Criteria: Please refer to P.30 of VESA Display HDR CTS Ver 1.1 for details.	1	681.17	16	668.09	2	670.88	17	667.84	3	670.42	18	667.64	4	669.97	19	667.49	5	670.05	20	667.22	6	669.96	21	667.15	7	669.83	22	666.99	8	669.56	23	666.43	9	669.61	24	666.35	10	669.49	25	666.45	11	669.20	26	666.19	12	668.79	27	665.98	13	669.04	28	666.05	14	668.49	29	665.57	15	668.37	30	665.51
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6	669.96	21	667.15																																																											
7	669.83	22	666.99																																																											
8	669.56	23	666.43																																																											
9	669.61	24	666.35																																																											
10	669.49	25	666.45																																																											
11	669.20	26	666.19																																																											
12	668.79	27	665.98																																																											
13	669.04	28	666.05																																																											
14	668.49	29	665.57																																																											
15	668.37	30	665.51																																																											
5.1.2 Minimum-white Luminance– Full-screen Flash Test	Pass	Minimum of all samples: 694.65 nits Detailed Measured Value <table border="1" data-bbox="794 1431 948 1603"> <tr><td>1</td><td>695.29</td></tr> <tr><td>2</td><td>694.65</td></tr> <tr><td>3</td><td>695.22</td></tr> <tr><td>4</td><td>695.76</td></tr> <tr><td>5</td><td>695.71</td></tr> </table> Criteria: Please refer to P.31 of VESA Display HDR CTS Ver 1.1 for details.	1	695.29	2	694.65	3	695.22	4	695.76	5	695.71																																																		
1	695.29																																																													
2	694.65																																																													
3	695.22																																																													
4	695.76																																																													
5	695.71																																																													



ID	Pass / Fail	Comment or Value																																																												
5.1.3 Minimum-white Luminance– Full-screen Long-duration Test	Pass	<p>Minimum of all samples: 675.25 nits</p> <p>Detailed Measured Value</p> <table border="1" data-bbox="794 510 1123 1021"> <tr><td>1</td><td>694.37</td><td>16</td><td>680.05</td></tr> <tr><td>2</td><td>687.08</td><td>17</td><td>679.37</td></tr> <tr><td>3</td><td>686.64</td><td>18</td><td>679.22</td></tr> <tr><td>4</td><td>685.91</td><td>19</td><td>679.00</td></tr> <tr><td>5</td><td>685.28</td><td>20</td><td>678.76</td></tr> <tr><td>6</td><td>684.34</td><td>21</td><td>678.28</td></tr> <tr><td>7</td><td>683.76</td><td>22</td><td>678.02</td></tr> <tr><td>8</td><td>683.39</td><td>23</td><td>677.62</td></tr> <tr><td>9</td><td>682.65</td><td>24</td><td>677.04</td></tr> <tr><td>10</td><td>682.63</td><td>25</td><td>676.73</td></tr> <tr><td>11</td><td>682.07</td><td>26</td><td>676.48</td></tr> <tr><td>12</td><td>681.86</td><td>27</td><td>676.11</td></tr> <tr><td>13</td><td>681.31</td><td>28</td><td>675.91</td></tr> <tr><td>14</td><td>680.84</td><td>29</td><td>675.51</td></tr> <tr><td>15</td><td>680.58</td><td>30</td><td>675.25</td></tr> </table> <p>Criteria: Please refer to P.32 of VESA DisplayHDR CTS Ver 1.1 for details.</p>	1	694.37	16	680.05	2	687.08	17	679.37	3	686.64	18	679.22	4	685.91	19	679.00	5	685.28	20	678.76	6	684.34	21	678.28	7	683.76	22	678.02	8	683.39	23	677.62	9	682.65	24	677.04	10	682.63	25	676.73	11	682.07	26	676.48	12	681.86	27	676.11	13	681.31	28	675.91	14	680.84	29	675.51	15	680.58	30	675.25
1	694.37	16	680.05																																																											
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14	680.84	29	675.51																																																											
15	680.58	30	675.25																																																											
5.2.1 Dual Corner Box Test Black-level Test	Pass	<p>Screen center value: 0.01646 nits White corners value: 579.61 nits</p> <p>Detailed Measured Value</p> <table border="1" data-bbox="831 1361 1075 1464"> <tr><td>Center</td><td>0.02</td></tr> <tr><td>Left</td><td>614.8075</td></tr> <tr><td>Right</td><td>579.6101</td></tr> </table> <p>Criteria: Please refer to P.34 of VESA Display HDR CTS Ver 1.1 for details.</p>	Center	0.02	Left	614.8075	Right	579.6101																																																						
Center	0.02																																																													
Left	614.8075																																																													
Right	579.6101																																																													



ID	Pass / Fail	Comment or Value																												
5.2.2 Checkerboard tests Black-level Test	Pass	<p>Active Dimming Stops Required at 50 cd/m² : 12.77</p> <p>Active Dimming Stops Required at 5 cd/m² : 14.47</p> <p><i>Detailed Measured Value</i> Active Dimming at 50 cd/m² :</p> <table border="1" data-bbox="794 640 1075 779"> <tr><td>Top White</td><td>52.56</td></tr> <tr><td>Bottom White</td><td>52.78</td></tr> <tr><td>Top Black</td><td>0.0951</td></tr> <tr><td>Bottom Black</td><td>0.0958</td></tr> </table> <p>Active Dimming at 5 cd/m² :</p> <table border="1" data-bbox="794 846 1075 985"> <tr><td>Top White</td><td>5.07</td></tr> <tr><td>Bottom White</td><td>5.32</td></tr> <tr><td>Top Black</td><td>0.0289</td></tr> <tr><td>Bottom Black</td><td>0.0299</td></tr> </table> <p>Criteria: Please refer to P.39 of VESA Display HDR CTS Ver 1.1 for details.</p>	Top White	52.56	Bottom White	52.78	Top Black	0.0951	Bottom Black	0.0958	Top White	5.07	Bottom White	5.32	Top Black	0.0289	Bottom Black	0.0299												
Top White	52.56																													
Bottom White	52.78																													
Top Black	0.0951																													
Bottom Black	0.0958																													
Top White	5.07																													
Bottom White	5.32																													
Top Black	0.0289																													
Bottom Black	0.0299																													
6.1 Color Gamut Specifications	Pass	<p>10% Patch Color Luminance Sum: 698.3 nits BT.709 Coverage u'v' : 99.98% DCI-P3 Coverage u'v' : 98.00%</p> <table border="1" data-bbox="794 1323 1251 1462"> <thead> <tr><th></th><th>x</th><th>y</th><th>Luminance</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.6745</td><td>0.3113</td><td>147.19</td></tr> <tr><td>Green</td><td>0.2653</td><td>0.6828</td><td>500.62</td></tr> <tr><td>Blue</td><td>0.1502</td><td>0.0549</td><td>50.51</td></tr> </tbody> </table> <table border="1" data-bbox="794 1462 1123 1601"> <thead> <tr><th></th><th>u'</th><th>v'</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.50087</td><td>0.52012</td></tr> <tr><td>Green</td><td>0.09952</td><td>0.57631</td></tr> <tr><td>Blue</td><td>0.17889</td><td>0.14712</td></tr> </tbody> </table> <p>Full Screen Color Luminance Sum: 697.5 nits BT.709 Coverage u'v' : 99.98% DCI-P3 Coverage u'v' : 98.05%</p>		x	y	Luminance	Red	0.6745	0.3113	147.19	Green	0.2653	0.6828	500.62	Blue	0.1502	0.0549	50.51		u'	v'	Red	0.50087	0.52012	Green	0.09952	0.57631	Blue	0.17889	0.14712
	x	y	Luminance																											
Red	0.6745	0.3113	147.19																											
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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" data-bbox="794 443 1252 577"> <thead> <tr> <th></th> <th>x</th> <th>y</th> <th>Luminance</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>0.6747</td> <td>0.3114</td> <td>147.87</td> </tr> <tr> <td>Green</td> <td>0.2655</td> <td>0.6826</td> <td>500.11</td> </tr> <tr> <td>Blue</td> <td>0.1501</td> <td>0.0553</td> <td>49.56</td> </tr> </tbody> </table> <table border="1" data-bbox="794 584 1123 712"> <thead> <tr> <th></th> <th>u'</th> <th>v'</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>0.50095</td> <td>0.52021</td> </tr> <tr> <td>Green</td> <td>0.09962</td> <td>0.57629</td> </tr> <tr> <td>Blue</td> <td>0.17851</td> <td>0.14798</td> </tr> </tbody> </table> <p>Please refer to P.15 of report for coverage picture.</p> <p>Criteria: Please refer to P.40 of VESA Display HDR CTS Ver 1.1 for details.</p>		x	y	Luminance	Red	0.6747	0.3114	147.87	Green	0.2655	0.6826	500.11	Blue	0.1501	0.0553	49.56		u'	v'	Red	0.50095	0.52021	Green	0.09962	0.57629	Blue	0.17851	0.14798
	x	y	Luminance																											
Red	0.6747	0.3114	147.87																											
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Red	0.50095	0.52021																												
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Blue	0.17851	0.14798																												
7.1 Bit-depth Specification	Pass	<p>Driver IC Display Claims (Min) 8+2 bits</p> <p>Criteria: 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): 18 ms Measuring 5 sequential rises.</p> <table border="1" data-bbox="831 1503 991 1675"> <tbody> <tr><td>1</td><td>18</td></tr> <tr><td>2</td><td>16</td></tr> <tr><td>3</td><td>16</td></tr> <tr><td>4</td><td>13</td></tr> <tr><td>5</td><td>13</td></tr> </tbody> </table> <p>Criteria: Please refer to P.48 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	18	2	16	3	16	4	13	5	13																		
1	18																													
2	16																													
3	16																													
4	13																													
5	13																													

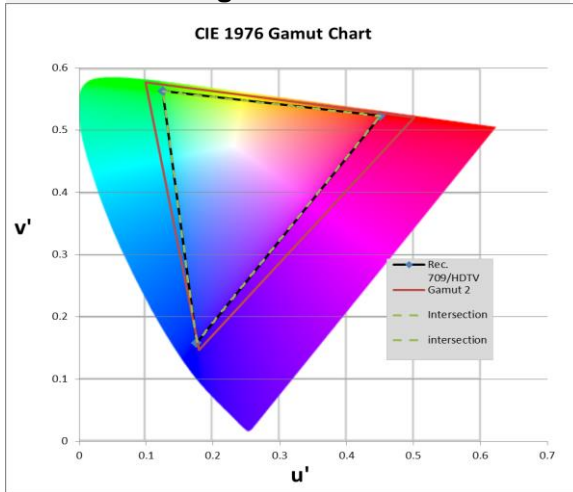


ID	Pass / Fail	Comment or Value																																	
9.3 Luminance and White Point Accuracy	Pass	<p>Delta-ITP Value</p> <table border="1"> <tr><td>5.172 cd/m2</td><td>2.9</td></tr> <tr><td>14.958 cd/m2</td><td>3.9</td></tr> <tr><td>50.825 cd/m2</td><td>4.7</td></tr> <tr><td>100.23 cd/m2</td><td>4.3</td></tr> <tr><td>199.15 cd/m2</td><td>4.0</td></tr> <tr><td>50% of Tier Level Maximum</td><td>3.94</td></tr> </table> <p>Detailed Measured Value</p> <table border="1"> <thead> <tr><th>x</th><th>y</th><th>Y</th></tr> </thead> <tbody> <tr><td>0.3138</td><td>0.3376</td><td>5.04</td></tr> <tr><td>0.3127</td><td>0.3375</td><td>14.41</td></tr> <tr><td>0.3124</td><td>0.3373</td><td>48.78</td></tr> <tr><td>0.3127</td><td>0.3372</td><td>97.35</td></tr> <tr><td>0.3119</td><td>0.3368</td><td>198.24</td></tr> <tr><td>0.3118</td><td>0.3364</td><td>303.61</td></tr> </tbody> </table> <p>Criteria: Please refer to P.52 of VESA Display HDR CTS Ver 1.1 for details.</p>	5.172 cd/m2	2.9	14.958 cd/m2	3.9	50.825 cd/m2	4.7	100.23 cd/m2	4.3	199.15 cd/m2	4.0	50% of Tier Level Maximum	3.94	x	y	Y	0.3138	0.3376	5.04	0.3127	0.3375	14.41	0.3124	0.3373	48.78	0.3127	0.3372	97.35	0.3119	0.3368	198.24	0.3118	0.3364	303.61
5.172 cd/m2	2.9																																		
14.958 cd/m2	3.9																																		
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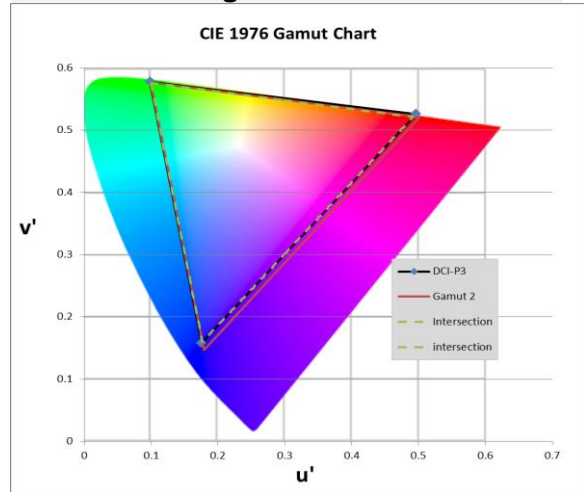


HDMI1

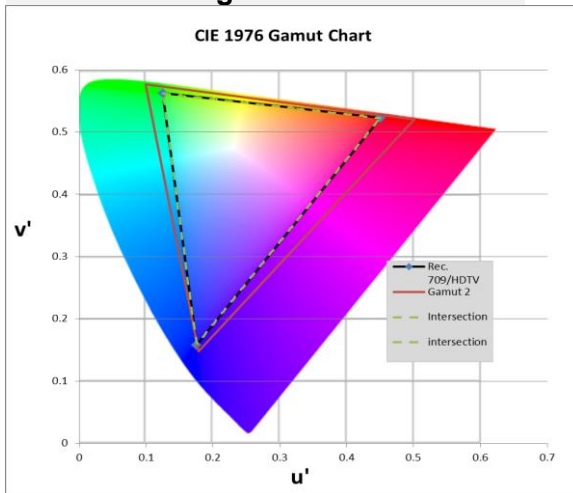
BT.709 Coverage u'v' for the 10% Patch



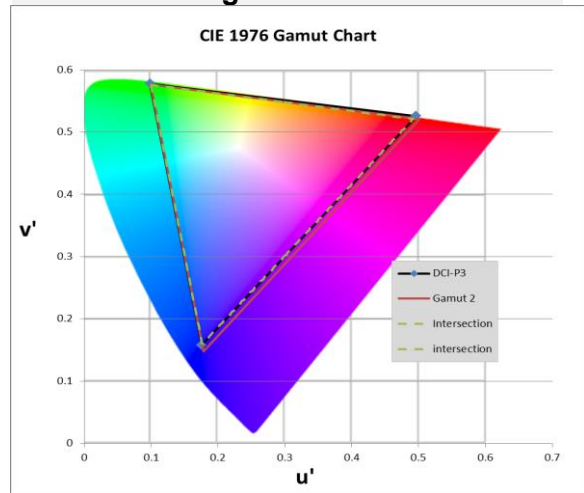
DCI-P3 Coverage u'v' for the 10% Patch



BT.709 Coverage u'v' for Full screen



DCI-P3 Coverage u'v' for Full screen





Test Results-HDR 600 Port : HDMI2 1920x1080 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: 661.65 nits Maximum range between high and low <10% : 2.2%</p> <p>Detailed Measured Value</p> <table border="1" data-bbox="794 611 1123 1122"> <tr><td>1</td><td>676.38</td><td>16</td><td>663.77</td></tr> <tr><td>2</td><td>666.46</td><td>17</td><td>663.41</td></tr> <tr><td>3</td><td>665.57</td><td>18</td><td>663.32</td></tr> <tr><td>4</td><td>665.08</td><td>19</td><td>663.20</td></tr> <tr><td>5</td><td>664.73</td><td>20</td><td>662.85</td></tr> <tr><td>6</td><td>664.72</td><td>21</td><td>662.82</td></tr> <tr><td>7</td><td>664.74</td><td>22</td><td>662.74</td></tr> <tr><td>8</td><td>664.54</td><td>23</td><td>662.66</td></tr> <tr><td>9</td><td>664.46</td><td>24</td><td>662.45</td></tr> <tr><td>10</td><td>664.39</td><td>25</td><td>662.21</td></tr> <tr><td>11</td><td>664.19</td><td>26</td><td>662.01</td></tr> <tr><td>12</td><td>664.16</td><td>27</td><td>662.11</td></tr> <tr><td>13</td><td>664.03</td><td>28</td><td>661.93</td></tr> <tr><td>14</td><td>664.10</td><td>29</td><td>661.76</td></tr> <tr><td>15</td><td>663.66</td><td>30</td><td>661.65</td></tr> </table> <p>Criteria: Please refer to P.30 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	676.38	16	663.77	2	666.46	17	663.41	3	665.57	18	663.32	4	665.08	19	663.20	5	664.73	20	662.85	6	664.72	21	662.82	7	664.74	22	662.74	8	664.54	23	662.66	9	664.46	24	662.45	10	664.39	25	662.21	11	664.19	26	662.01	12	664.16	27	662.11	13	664.03	28	661.93	14	664.10	29	661.76	15	663.66	30	661.65
1	676.38	16	663.77																																																											
2	666.46	17	663.41																																																											
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13	664.03	28	661.93																																																											
14	664.10	29	661.76																																																											
15	663.66	30	661.65																																																											
5.1.2 Minimum-white Luminance– Full-screen Flash Test	Pass	<p>Minimum of all samples: 703.16 nits</p> <p>Detailed Measured Value</p> <table border="1" data-bbox="794 1429 948 1603"> <tr><td>1</td><td>703.16</td></tr> <tr><td>2</td><td>703.89</td></tr> <tr><td>3</td><td>703.18</td></tr> <tr><td>4</td><td>703.24</td></tr> <tr><td>5</td><td>703.53</td></tr> </table> <p>Criteria: Please refer to P.31 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	703.16	2	703.89	3	703.18	4	703.24	5	703.53																																																		
1	703.16																																																													
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5	703.53																																																													



ID	Pass / Fail	Comment or Value																																																												
5.1.3 Minimum-white Luminance– Full-screen Long-duration Test	Pass	<p>Minimum of all samples: 671.76 nits</p> <p>Detailed Measured Value</p> <table border="1" data-bbox="794 510 1123 1021"> <tr><td>1</td><td>689.82</td><td>16</td><td>676.10</td></tr> <tr><td>2</td><td>682.91</td><td>17</td><td>675.64</td></tr> <tr><td>3</td><td>682.05</td><td>18</td><td>675.58</td></tr> <tr><td>4</td><td>681.51</td><td>19</td><td>675.06</td></tr> <tr><td>5</td><td>680.80</td><td>20</td><td>674.58</td></tr> <tr><td>6</td><td>680.24</td><td>21</td><td>674.58</td></tr> <tr><td>7</td><td>679.75</td><td>22</td><td>674.00</td></tr> <tr><td>8</td><td>679.30</td><td>23</td><td>673.60</td></tr> <tr><td>9</td><td>678.58</td><td>24</td><td>673.23</td></tr> <tr><td>10</td><td>678.31</td><td>25</td><td>673.08</td></tr> <tr><td>11</td><td>677.81</td><td>26</td><td>672.83</td></tr> <tr><td>12</td><td>677.47</td><td>27</td><td>672.45</td></tr> <tr><td>13</td><td>676.95</td><td>28</td><td>672.25</td></tr> <tr><td>14</td><td>676.92</td><td>29</td><td>671.89</td></tr> <tr><td>15</td><td>676.47</td><td>30</td><td>671.76</td></tr> </table> <p>Criteria: Please refer to P.32 of VESA DisplayHDR CTS Ver 1.1 for details.</p>	1	689.82	16	676.10	2	682.91	17	675.64	3	682.05	18	675.58	4	681.51	19	675.06	5	680.80	20	674.58	6	680.24	21	674.58	7	679.75	22	674.00	8	679.30	23	673.60	9	678.58	24	673.23	10	678.31	25	673.08	11	677.81	26	672.83	12	677.47	27	672.45	13	676.95	28	672.25	14	676.92	29	671.89	15	676.47	30	671.76
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14	676.92	29	671.89																																																											
15	676.47	30	671.76																																																											
5.2.1 Dual Corner Box Test Black-level Test	Pass	<p>Screen center value: 0.01680 nits White corners value: 574.07 nits</p> <p>Detailed Measured Value</p> <table border="1" data-bbox="831 1361 1075 1464"> <tr><td>Center</td><td>0.016803</td></tr> <tr><td>Left</td><td>620.5799</td></tr> <tr><td>Right</td><td>574.0714</td></tr> </table> <p>Criteria: Please refer to P.34 of VESA Display HDR CTS Ver 1.1 for details.</p>	Center	0.016803	Left	620.5799	Right	574.0714																																																						
Center	0.016803																																																													
Left	620.5799																																																													
Right	574.0714																																																													



ID	Pass / Fail	Comment or Value																												
5.2.2 Checkerboard tests Black-level Test	Pass	<p>Active Dimming Stops Required at 50 cd/m² : 12.35</p> <p>Active Dimming Stops Required at 5 cd/m² : 14.43</p> <p><i>Detailed Measured Value</i> Active Dimming at 50 cd/m² :</p> <table border="1" data-bbox="794 640 1075 779"> <tr><td>Top White</td><td>51.27</td></tr> <tr><td>Bottom White</td><td>52.79</td></tr> <tr><td>Top Black</td><td>0.1233</td></tr> <tr><td>Bottom Black</td><td>0.1308</td></tr> </table> <p>Active Dimming at 5 cd/m² :</p> <table border="1" data-bbox="794 846 1075 985"> <tr><td>Top White</td><td>5.18</td></tr> <tr><td>Bottom White</td><td>5.38</td></tr> <tr><td>Top Black</td><td>0.0293</td></tr> <tr><td>Bottom Black</td><td>0.0307</td></tr> </table> <p>Criteria: Please refer to P.39 of VESA Display HDR CTS Ver 1.1 for details.</p>	Top White	51.27	Bottom White	52.79	Top Black	0.1233	Bottom Black	0.1308	Top White	5.18	Bottom White	5.38	Top Black	0.0293	Bottom Black	0.0307												
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6.1 Color Gamut Specifications	Pass	<p>10% Patch Color Luminance Sum: 695.9 nits BT.709 Coverage u'v' : 99.99% DCI-P3 Coverage u'v' : 97.97%</p> <table border="1" data-bbox="794 1328 1251 1467"> <thead> <tr><th></th><th>x</th><th>y</th><th>Luminance</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.6742</td><td>0.3115</td><td>147.12</td></tr> <tr><td>Green</td><td>0.2658</td><td>0.6815</td><td>497.48</td></tr> <tr><td>Blue</td><td>0.1499</td><td>0.0549</td><td>51.26</td></tr> </tbody> </table> <table border="1" data-bbox="794 1467 1123 1606"> <thead> <tr><th></th><th>u'</th><th>v'</th></tr> </thead> <tbody> <tr><td>Red</td><td>0.50037</td><td>0.52017</td></tr> <tr><td>Green</td><td>0.09986</td><td>0.57611</td></tr> <tr><td>Blue</td><td>0.17851</td><td>0.14710</td></tr> </tbody> </table> <p>Full Screen Color Luminance Sum: 701.5 nits BT.709 Coverage u'v' : 99.99% DCI-P3 Coverage u'v' : 98.05%</p>		x	y	Luminance	Red	0.6742	0.3115	147.12	Green	0.2658	0.6815	497.48	Blue	0.1499	0.0549	51.26		u'	v'	Red	0.50037	0.52017	Green	0.09986	0.57611	Blue	0.17851	0.14710
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7.1 Bit-depth Specification	Pass	<p>Driver IC Display Claims (Min) 8+2 bits</p> <p>Criteria: 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): 16 ms Measuring 5 sequential rises.</p> <table border="1" data-bbox="831 1496 991 1671"> <tbody> <tr><td>1</td><td>16</td></tr> <tr><td>2</td><td>13</td></tr> <tr><td>3</td><td>16</td></tr> <tr><td>4</td><td>16</td></tr> <tr><td>5</td><td>16</td></tr> </tbody> </table> <p>Criteria: Please refer to P.48 of VESA Display HDR CTS Ver 1.1 for details.</p>	1	16	2	13	3	16	4	16	5	16																		
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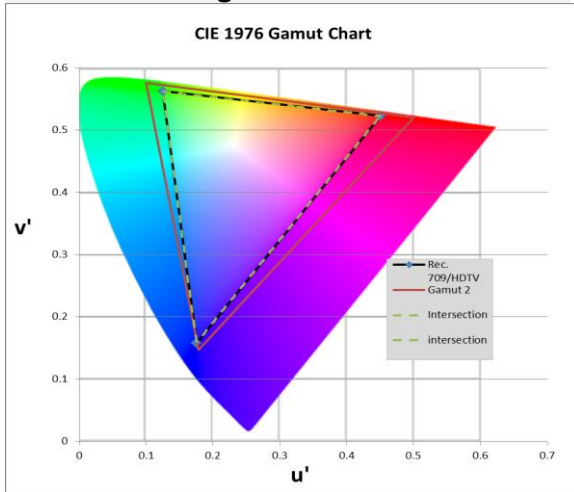


ID	Pass / Fail	Comment or Value																																	
9.3 Luminance and White Point Accuracy	Pass	<p>Delta-ITP Value</p> <table border="1" data-bbox="794 434 1075 674"> <tr><td>5.172 cd/m2</td><td>3.8</td></tr> <tr><td>14.958 cd/m2</td><td>3.5</td></tr> <tr><td>50.825 cd/m2</td><td>5.1</td></tr> <tr><td>100.23 cd/m2</td><td>4.6</td></tr> <tr><td>199.15 cd/m2</td><td>4.1</td></tr> <tr><td>50% of Tier Level Maximum</td><td>3.95</td></tr> </table> <p>Detailed Measured Value</p> <table border="1" data-bbox="794 741 1165 981"> <thead> <tr><th>x</th><th>y</th><th>Y</th></tr> </thead> <tbody> <tr><td>0.3143</td><td>0.3377</td><td>4.90</td></tr> <tr><td>0.3130</td><td>0.3376</td><td>14.61</td></tr> <tr><td>0.3129</td><td>0.3374</td><td>48.26</td></tr> <tr><td>0.3129</td><td>0.3373</td><td>96.53</td></tr> <tr><td>0.3120</td><td>0.3369</td><td>196.77</td></tr> <tr><td>0.3118</td><td>0.3366</td><td>301.30</td></tr> </tbody> </table> <p>Criteria: Please refer to P.52 of VESA Display HDR CTS Ver 1.1 for details.</p>	5.172 cd/m2	3.8	14.958 cd/m2	3.5	50.825 cd/m2	5.1	100.23 cd/m2	4.6	199.15 cd/m2	4.1	50% of Tier Level Maximum	3.95	x	y	Y	0.3143	0.3377	4.90	0.3130	0.3376	14.61	0.3129	0.3374	48.26	0.3129	0.3373	96.53	0.3120	0.3369	196.77	0.3118	0.3366	301.30
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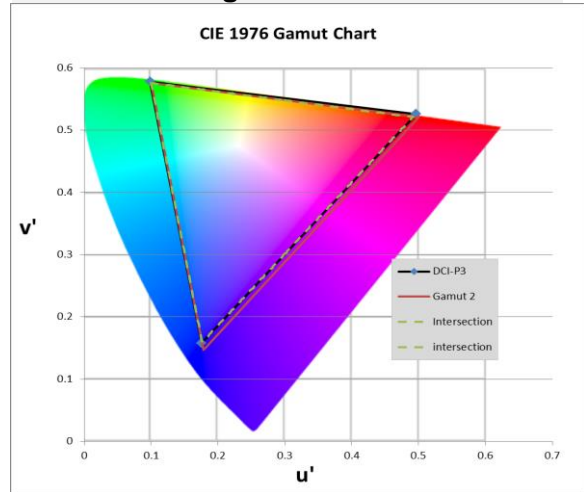


HDMI2

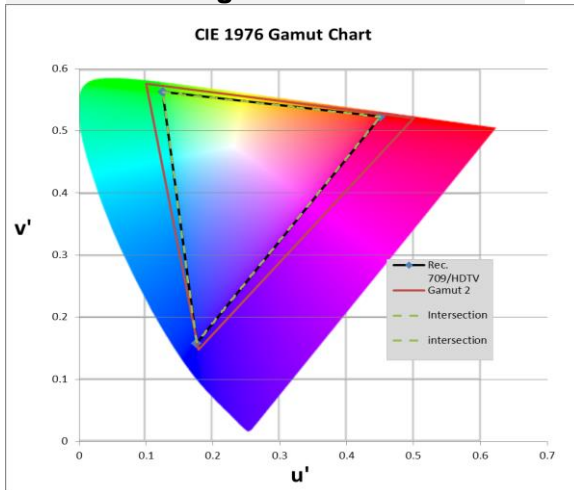
BT.709 Coverage u'v' for the 10% Patch



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

