

ANALYTICAL LABORATORIES PVT. LTD.

Lab: Reliable House, 125 Indian Corporation, Dapoda Road, Mankoli Naka, Bhiwandi, Thane - 421302, Maharashtra (INDIA) Phone: 02522 - 662907 / 662908 / 07400084589 / 7400084590 Website: www.reliablelabs.org, E-mail: info@reliablelabs.org

	TEST REPORT
	(CUSTOMISED TESTING)
Test Report Number	RAL/THW/EO24020035
Report issue date (DD/MM/YYYY:	07/06/2024
Total number of pages	13
Test Report Issuing Lab	Reliable Analytical Laboratories Pvt. Ltd.
Testing / Witness Testing Location.:	Bldg. No. 125-139, Indian Corporation Complex, Mankoli, Gundwali, Bhiwandi.
Location of Performance of Testing.:	Bldg. No. 125-139, Indian Corporation Complex, Mankoli, Gundwali, Bhiwandi.
Customer / Applicant'sname	Reliance Retail Ltd Reliance Corporate Park, Ghansoli Naka, Thane Belapur road, Nav
Discipline Product Group	Mumbai -400701 : Electronics : Audio/ Video & Similar Electronics Apparatus
Test specification: Standard	N/A As per Customer Specifications
Test Report Form No	
Test item description	LED TV (LED Television size 55")
Manufacturer	Reliance Retail Ltd
Model/Type reference	55U-E5330 AC 100-240V~, 50/60Hz
Tested by (Name + Signature+ Function)	Sonali Dhongade (Sr. Engineer)
Reviewed & Authorized by (Name + Signature + Function)	Onkareshwar Pandey (Tech. Manager)

An independent organization testing for safety, performance, and certification.

This report is for the exclusive use of Reliable Client and is provided pursuant to the agreement between Reliable and its Client. Reliable responsibility and liability are limited to the terms and conditions of the agreement. Reliable assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to copying or distribution this report and then only in its entirety. Any use of the Reliable name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Reliable. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under a Reliable certification program.

Registered Office: Reliable Analytical Laboratories Pvt. Ltd.

Bldg. No. 125-139, Indian corporation Complex, Mankoli, Gundwali, Bhiwandi

Page 1 of 13

Test Report No.: RAL/THW/ EQ24020035

P 96758



ANALYTICAL LABORATORIES PVT. LTD.

Lab: Reliable House, 125 Indian Corporation, Dapoda Road, Mankoli Naka, Bhiwandi, Thane - 421302, Maharashtra (INDIA)
Phone: 02522 - 662907 / 662908 / 07400084589 / 7400084590 Website: www.reliablelabs.org, E-mail: info@reliablelabs.org

General product information:

The Equipment under test (EUT) is a LED TV SIZE 55" for use in general home environment and for indoor use only. Appliance inlet is considered as the disconnect device and the apparatus is considered as class II.

Testing.....

Condition of Sample Received...... Good

Sample Identification no(s)...... 55U-E5330

Sample Serial no(s).....

Date (s) of performance of tests....... 15/02/2024 to 07/06/2024

Laboratory conditions:

Ambient Temperature...... 23+4°C

Relative humidity 55±10%

Possible test case verdicts:

- test case does not apply to the test object......... N/A
- test object does meet the requirementP (Pass)
- test object does not meet the requirement......F (Fail)

General remarks (If any):

The test results presented in this report relate only to the sample tested.

This report shall not be reproduced, except in full, without the written approval of report issuing testing laboratory.

Reliable is responsible only for reporting measured value (results). Rest information is reported as provided by customer.

Remarks:

Please refer to individual test verdict for Compliance for each test.

Possible test case verdicts:

- test object does meet the requirementP (Pass)
- test object does not meet the requirement F (Fail)



Page 2 of 13

Test Report No.: RAL/THW/ EO24020035

Gul



ANALYTICAL LABORATORIES PVT. LTD.

Lab: Reliable House, 125 Indian Corporation, Dapoda Road, Mankoli Naka, Bhiwandi, Thane - 421302, Maharashtra (INDIA) Phone: 02522 - 662907 / 662908 / 07400084589 / 7400084590 Website: www.reliablelabs.org, E-mail: info@reliablelabs.org

Test Condition:

Sr.	Test	Test condition	Observation	Verdict
No		自由自由主义的 医多种毒素 医神经神经病 医神经病		
1	ESD test	Video signal at ambient temperature, Standard Mode Check Air as well as contact discharge to all input ports. (10Kv contact & 12Kv air)	As given below	Р

Note:

Category A: - No degradation in performance or loss of function during and after the test.

Category B: - Allowable temporary degradation during the test. Self recovers after the test. No change in operating state or stored data is allowed.

Category C: - Temporary loss of function or degradation in performance the correction of which requires operator intervention.

Category D: - EUT malfunctions and fails to recover.

S.No	Area	Points	Air/Contact	Mode	Voltage	Times	Remarks
1		Control P. Hor	Contact	Stand by	± 10 (KV)	30	Α
2	External Accessible		Air	Stand by	± 12 (KV)	30	Α
3	points	Control Button	Contact	Operation	± 10 (KV)	30	Α
4			Air	Operation	± 12 (KV)	30	Α
5		Top Center	Contact	Operation	± 10 (KV)	10	А
6		Bottom Center	Contact	Operation	± 10 (KV)	10	Α
7	Metal Cabinet	Left Center	Contact	Operation	± 10 (KV)	10	Α
8		Right Center	Contact	Operation	± 10 (KV)	10	Α
9		Center	Contact	Operation	± 10 (KV)	10	Α
10	Open Cell	Top Left	Contact	Operation	± 10 (KV)	10	Α
11		Top Right	Contact	Operation	± 10 (KV)	10	Α
12		Top Center	Contact	Operation	± 10 (KV)	10	Α
13		Center Left	Contact	Operation	± 10 (KV)	10	Α
14		Center Right	Contact	Operation	± 10 (KV)	10	Α
15		Center Center	Contact	Operation	± 10 (KV)	10	Α
16		Bottom-1	Contact	Operation	± 10 (KV)	10	Α
17		Bottom-2	Contact	Operation	± 10 (KV)	10	Α
18		Bottom-3	Contact	Operation	± 10 (KV)	10	Α
19		Bottom-4	Contact	Operation	± 10 (KV)	10	Α
20] [-1]	Bottom-5	Contact	Operation	± 10 (KV)	10	Α
21		Bottom-6	Contact	Operation	± 10 (KV)	10	Α
22		Bottom-7	Contact	Operation	± 10 (KV)	10	Α
23		Bottom-8	Contact	Operation	± 10 (KV)	10	Α



Page 3 of 13

Test Report No.: RAL/THW/ EQ24020035

Gud



ANALYTICAL LABORATORIES PVT. LTD.

Lab : Reliable House, 125 Indian Corporation, Dapoda Road, Mankoli Naka, Bhiwandi, Thane - 421302, Maharashtra (INDIA) Phone: 02522 - 662907 / 662908 / 07400084589 / 7400084590 Website : www.reliablelabs.org, E-mail : info@reliablelabs.org

24	Bottom-9	Contact	Operation	± 10 (KV)	10	А
25	Tuner	Contact	Operation	± 10 (KV)	10	B(During the test display flickered for very short duration and automatically recovered back)
26		Air	Operation	± 12 (KV)	10	Α
27	HDMI-1	Contact	Operation	± 10 (KV)	10	B(During the test display flickered for very short duration and automatically recovered back)
28		Air	Operation	± 12 (KV)	10	Α
29	HDMI-2	Contact	Operation	± 10 (KV)	10	B(During the test display flickered for very short duration and automatically recovered back)
30 All Ports Signal		Air	Operation	± 12 (KV)	10	А
31		Contact	Operation	± 10 (KV)	10	B(During the test display flickered for very short duration and automatically recovered back)
32	The latest the same of	Air	Operation	± 12 (KV)	10	A
33	A/V - In (Video)	Contact	Operation	± 10 (KV)	10	B(During the test display flickered for very short duration and automatically recovered back)
34		Air	Operation	± 12 (KV)	10	Α
35	LICP 4	Contact	Operation	± 10 (KV)	10	Α
36	USB-1	Air	Operation	± 12 (KV)	10	Α
37	LICE 2	Contact	Operation	± 10 (KV)	10	А
38	USB-2	Air	Operation	± 12 (KV)	10	А
39	AVIN	Contact	Operation	± 10 (KV)	10	B(During the test display

Page 4 of 13

Test Report No.: RAL/THW/ EO24020035





ANALYTICAL LABORATORIES PVT. LTD.

Lab: Reliable House, 125 Indian Corporation, Dapoda Road, Mankoli Naka, Bhiwandi, Thane - 421302, Maharashtra (INDIA) Phone: 02522 - 662907 / 662908 / 07400084589 / 7400084590 Website: www.reliablelabs.org, E-mail: info@reliablelabs.org

4	Low Voltage test (80VAC)	Video signal a Set is continu Duration: 168	Unit is the tes		ally ok after	Р			
3	Cold Test	- 10°C , set in OFF condition for duration of 16 Hours + 8 Hours recovery. As per IS 10662				Unit fur test.	nctionally	y ok after the	Р
2	Line surge test	Disignal & complete magneture Disc standard status					nctionally	y ok after the	Р
49				Air	Operation	± 12 (KV)	10	A	
48	— Port Ground	A/V (Vide		Contact	Operation	± 10 (KV)	10	B(During the test display flickered for very short duration and automatically recovered back)	
47	1			Air	Operation	± 12 (KV)	10	A A	-
46		Tune	er	Contact	Operation	± 10 (KV)	10	B(During the test display flickered for very short duration and automatically recovered back)	
45			THE STATE OF	Air	Operation	± 12 (KV)	10	A	
44		LAN		Contact	Operation	± 10 (KV)	10	B(During the test display flickered for very short duration and automatically recovered back)	
43		Optio	cal Out	Air	Operation	± 12 (KV)	10	А	
47		0.11		Contact	Operation	± 10 (KV)	10	Α	7
42	-	Earp	hone Out	Air	Operation	± 12 (KV)	10	A	-
40	-			Contact	Operation Operation	± 12 (KV)	10	A	\dashv
40				Air	Occastica	± 12 (KV)	10	flickered for very short duration and automatically recovered back)	

Page 5 of 13

Test Report No.: RAL/THW/ EO24020035

Qui



ANALYTICAL LABORATORIES PVT. LTD.

Lab: Reliable House, 125 Indian Corporation, Dapoda Road, Mankoli Naka, Bhiwandi, Thane - 421302, Maharashtra (INDIA) Phone: 02522 - 662907 / 662908 / 07400084589 / 7400084590 Website: www.reliablelabs.org, E-mail: info@reliablelabs.org

High Voltage test (300VAC)	Video signal at 45 deg C temperature, Standard Mode Set is continuously ON at 300V ac with all controls max. Duration: 168 Hrs.	Unit is functionally ok after the test.	Р		
Dry Heat Test	At 50°C , set in OFF condition Duration: 16 Hours + 8 Hours recovery	Unit is functionally ok after the test.	Р		
Dust chamber test	As per IEC60529, 13.4 (Dust chamber enclosure)	Unit is functionally ok after the test.	Р		
Humidity test	RH 95%, 40°C set in On condition Duration: 8 HrOn, 16 Hr recovery. Test period will be 30 days	Unit is functionally ok after the test			
Bump Test	500 Bumps, 1 bump /sec @Height 25mm	Unit is functionally ok after the test.			
Wall mount	Equivalent to three times the weight of the product / 150N whichever is more is suspended on the hook for 72 Hrs.	360N Applied for 72 Hours, No damage found.	Р		
Vibration Shield	Sine vibration on x , y & z axis. Frequency : 5-250Hz , Duration : 1 Hr/axis. Acceleration - 1.15G, Sweep time - 10 oscillations/min	EUT working properly during & after the test	Р		
Drop Test	(Refer drop test Sheet for test SOP & report format) as per ISTA 2Astandard Broo Precedure Sequence # Observation Specific face, edge or conser				
	2 Edge shorten edge radioting from the corner tested 3 Edge and longest edge radioting from the corner tested 4 Edge longest edge radioting from the corner tested 5 Face one of the smallest faces 6 Face opposite small face 7 Face one of the medium faces one of the medium faces 0 Face opposite small face 0 Face one of the medium faces 0 Face opposite small face				
	test (300VAC) Dry Heat Test Dust chamber test Humidity test Bump Test Wall mount Vibration Shield	Set is continuously ON at 300V ac with all controls max. Duration: 168 Hrs. At 50°C, set in OFF condition Duration: 16 Hours + 8 Hours recovery Dust chamber test Humidity test Humidity test Humidity test Humidity test Chamber test Humidity test Humidity test Humidity test Humidity test Humidity test Humidity test Soo Bumps, 1 bump /sec @Height 25mm Wall mount Equivalent to three times the weight of the product / 150N Whichever is more is suspended on the hook for 72 Hrs. Vibration Sine vibration on x, y & z axis. Frequency: 5-250Hz, Duration: 1 Hr/axis. Acceleration - 1.15G, Sweep time - 10 oscillations/min Drop Test Check Drop test details sheet (Refer drop test Sheet for test SOP & report format) as per ISTA 2Astandard Results of the maller ficer - from and fagic ficer-3 come, if not known, test 3-1-3 Edge duration digit ficer-3 come, if not known, test 3-1-3 Edge duration digit ficer-3 come, if not known, test 3-1-3 Edge duration digit ficer-3 come, if not known, test 3-1-3 Edge duration digit ficer-3 come, if not known, test 3-1-3 Edge duration digit ficer-3 come, if not known, test 3-1-3 Edge duration digit ficer-3 come, if not known, test 3-1-3 Edge duration digit ficer-3 come, if not known, test 3-1-3 Edge duration digit ficer-3 come, if not known, test 3-1-3 Edge come of the maller ficer Fixex one of the maller fic	Set is continuously ON at 300V ac with all controls max. Duration: 168 Hrs. At 50°C, set in OFF condition Duration: 16 Hours + 8 Hours recovery Dust Chamber test As per IEC60529, 13.4 (Dust chamber enclosure) Dust Chamber test Humidity test RH 95%, 40°C set in On condition Duration: 8 HrOn, 16 Hr recovery. Test period will be 30 days Bump Test S00 Bumps, 1 bump /sec @Height 25mm Unit is functionally ok after the test. Wall mount Equivalent to three times the weight of the product / 150N Whichever is more is suspended on the hook for 72 Hrs. Vibration Sine vibration on x, y & z axis. Frequency: 5-250Hz, Shield Duration: 1 Hr/axis. Acceleration - 1.15G, Sweep time - 10 oscillations/min Drop Test Check Drop test details sheet (Refer drop test Sheet for test SOP & report format) as per ISTA 2Astandard Data Pascettes Set is continuously ON at 300V ac with all controls max. the test. Unit is functionally ok after the test. Unit is functionally ok after the test. EUT working properly during & after the test Unit is functionally ok after the test oscillations/min Drop Test Check Drop test details sheet (Refer drop test Sheet for test SOP & report format) as per ISTA 2Astandard Data Pascettes Set is continuously of after ones read for the test ones read for the cone read for the test ones read for the cone read for the		



Page 6 of 13

Test Report No.: RAL/THW/ EO24020035

Gd.

ANALYTICAL LABORATORIES PVT. LTD.

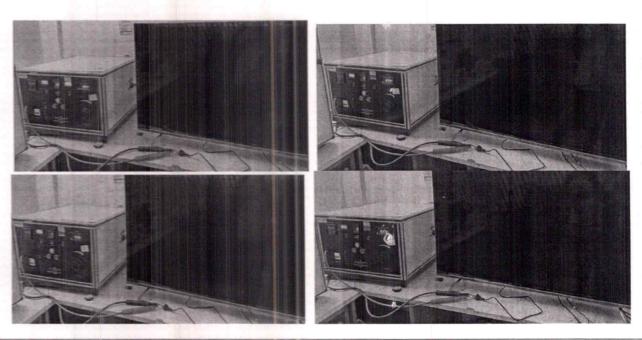


Lab: Reliable House, 125 Indian Corporation, Dapoda Road, Mankoli Naka, Bhiwandi, Thane - 421302, Maharashtra (INDIA) Phone: 02522 - 662907 / 662908 / 07400084589 / 7400084590 Website: www.reliablelabs.org, E-mail: info@reliablelabs.org

Photograph:



Setup for ESD test



Setup for Line surge Test

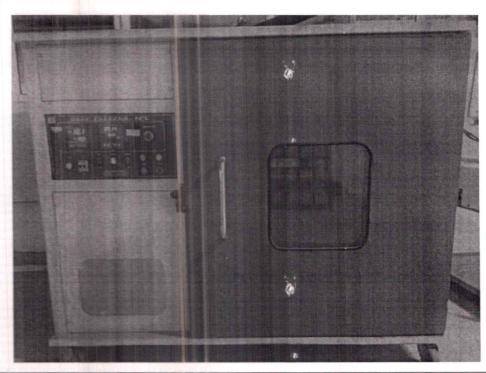
Page 7 of 13

Test Report No.: RAL/THW/ EO24020035

ANALYTICAL LABORATORIES PVT. LTD.



Lab: Reliable House, 125 Indian Corporation, Dapoda Road, Mankoli Naka, Bhiwandi, Thane - 421302, Maharashtra (INDIA) Phone: 02522 - 662907 / 662908 / 07400084589 / 7400084590 Website: www.reliablelabs.org, E-mail: info@reliablelabs.org



Setup for Cold test



Page 8 of 13

Test Report No.: RAL/THW/ EO24020035

Que

ANALYTICAL LABORATORIES PVT. LTD.



Lab: Reliable House, 125 Indian Corporation, Dapoda Road, Mankoli Naka, Bhiwandi, Thane - 421302, Maharashtra (INDIA) Phone: 02522 - 662907 / 662908 / 07400084589 / 7400084590 Website: www.reliablelabs.org, E-mail: info@reliablelabs.org





Setup for Low Voltage test (80VAC)





Setup for High Voltage test (300VAC)



Page 9 of 13

Test Report No.: RAL/THW/ EO24020035

Quel

ANALYTICAL LABORATORIES PVT. LTD.



Lab : Reliable House, 125 Indian Corporation, Dapoda Road, Mankoli Naka, Bhiwandi, Thane - 421302, Maharashtra (INDIA) Phone: 02522 - 662907 / 662908 / 07400084589 / 7400084590 Website : www.reliablelabs.org, E-mail : info@reliablelabs.org





Setup for Dry Heat Test



Setup for Dust chamber test



Page 10 of 13

Test Report No.: RAL/THW/ EO24020035



ANALYTICAL LABORATORIES PVT. LTD.



Lab: Reliable House, 125 Indian Corporation, Dapoda Road, Mankoli Naka, Bhiwandi, Thane - 421302, Maharashtra (INDIA) Phone: 02522 - 662907 / 662908 / 07400084589 / 7400084590 Website: www.reliablelabs.org, E-mail: info@reliablelabs.org



Setup for Humidity test



Setup for Bump Test



Page 11 of 13

Test Report No.: RAL/THW/ EO24020035

Cod

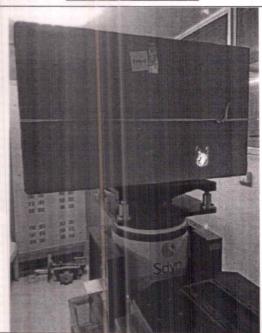
ANALYTICAL LABORATORIES PVT. LTD.



Lab: Reliable House, 125 Indian Corporation, Dapoda Road, Mankoli Naka, Bhiwandi, Thane - 421302, Maharashtra (INDIA) Phone: 02522 - 662907 / 662908 / 07400084589 / 7400084590 Website: www.reliablelabs.org, E-mail: info@reliablelabs.org



Setup for Wall mount



Setup for Vibration Shield

Thane Thane

Page 12 of 13

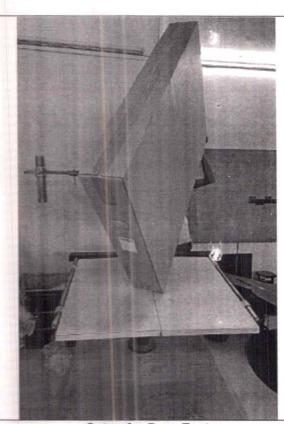
Test Report No.: RAL/THW/ EO24020035

Cod

ANALYTICAL LABORATORIES PVT. LTD.



Lab: Reliable House, 125 Indian Corporation, Dapoda Road, Mankoli Naka, Bhiwandi, Thane - 421302, Maharashtra (INDIA) Phone: 02522 - 662907 / 662908 / 07400084589 / 7400084590 Website: www.reliablelabs.org, E-mail: info@reliablelabs.org



Setup for Drop Test

***END OF TEST REPORT **



Page 13 of 13

Test Report No.: RAL/THW/ EO24020035

and a