

Report Version: 1.0

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# **TEST REPORT**

Applicant: BRAYTRON S.R.L.

Address of Applicant: B.DUL IULIU MANIU, NR.616, CORP B, ETAJ 1 SECTOR 6,

061129, BUCHAREST, ROMANIA

# **Equipment Under Test (EUT)**

Product Name: OUTDOOR LIGHTING FIXTURE

Brand Name: Braytron

Model No.: Please Refer To Page 5-6.

Applicable standards: EN IEC 55015:2019+A11:2020

EN 61547:2009

EN IEC 61000-3-2:2019

EN 61000-3-3:2013+A1:2019

Date of sample receipt: October 8, 2021

Date of Test: October 8, 2021 To October 14, 2021

Date of report issued: October 15, 2021

Test Result: PASS \*

\*In the configuration tested, the EUT complied with the standards specified above

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

**Authorized Signature** 

Kevin Wang Laboratory Manager CE



Shenzhen EBO Testing Center
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# 2 Version

Version No.	Date	Description
00	October 15, 2021	Original

Prepared By:

Gary Wang

**Project Engineer** 

Date:

Reviewed By:

0

Reviewer

Date:

October 15, 2021

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# 4 Test Summary

Test Item	Test Requirement	Test Method	Class / Severity	Result
Radiated Emissions (30MHz-1000MHz)	EN IEC 55015	EN IEC 55015	Table 10	Pass
Radiated Emissions (9kHz-30MHz)	EN IEC 55015	EN IEC 55015	Table 8	Pass
Conducted Emissions	EN IEC 55015	EN IEC 55015	Table 1	Pass
Harmonic Current Emission	EN IEC 61000-3-2	EN IEC 61000-3-2	Class C	Pass
Voltage Fluctuations and Flicker	EN 61000-3-3	EN 61000-3-3	Clause 5 of EN61000-3-3	Pass
Electrostatic discharges	EN 61547	EN 61000-4-2	Contact 4 kV Air 8 kV	Pass
Radiated Immunity	EN 61547	EN 61000-4-3	3V/m 80%, 1kHz, AM	Pass
Electrical Fast Transients	EN 61547	EN 61000-4-4	AC 1.0kV	Pass
Surges	EN 61547	EN 61000-4-5	0.5kV Line to Line 1kV Line to Ground	Pass
Conducted Immunity	EN 61547	EN 61000-4-6	3Vrms (emf), 80%, 1kHz Amp. Mod.	Pass
Voltage ding and			0 % UT for 0.5per	
Voltage dips and Interruptions	EN 61547	EN 61000-4-11	70 % UT for 10per UT is Supply Voltage	Pass

Remark:

UT\* is the nominal supply voltage.

N/A: Not applicable.



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### Model No.:

Model No.:			
BG32-001XX	BG32-002XX	BG32-003XX	BG32-004XX
BG32-005XX	BG32-006XX	BG32-007XX	BG32-008XX
BG32-009XX	BG32-010XX	BG32-011XX	BG32-012XX
BG32-013XX	BG32-014XX	BG32-015XX	BG32-016XX
BG32-017XX	BG32-018XX	BG32-019XX	BG32-020XX
BG32-021XX	BG32-022XX	BG32-023XX	BG32-024XX
BG32-025XX	BG32-026XX	BG32-028XX	BG32-029XX
BG32-030XX	BG32-031XX	BG32-032XX	BG32-033XX
BG32-034XX	BG32-035XX	BG32-036XX	BG32-037XX
BG32-038XX	BG32-039XX	BG32-040XX	BG32-041XX
BG32-042XX	BG32-043XX	BG32-044XX	BG32-045XX
BG32-046XX	BG32-047XX	BG32-048XX	BG32-049XX
BG32-050XX	BG32-051XX	BG32-052XX	BG32-053XX
BG32-054XX	BG32-056XX	BG32-057XX	BG32-058XX
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BG32-063XX	BG32-064XX	BG32-065XX	BG32-066XX
BG32-067XX	BG32-068XX	BG32-069XX	BG32-070XX
BG32-071XX	BG32-072XX	BG32-073XX	BG32-074XX
BG32-075XX	BG32-076XX	BG32-078XX	BG32-079XX
BG32-080XX	BG32-081XX	BG32-082XX	BG32-083XX
BG32-084XX	BG32-085XX	BG32-086XX	BG32-087XX
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BG33-071XX	BG33-072XX	BG33-073XX	BG33-074XX



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BG33-080XX         BG33-081XX         BG33-082XX         BG33-083XX           BG33-084XX         BG33-085XX         BG33-086XX         BG33-087XX           BG33-088XX         BG33-089XX         BG33-090XX         BG33-091XX           BG33-092XX         BG33-093XX         BG33-094XX         BG33-095XX           BG33-096XX         BG33-097XX         BG33-098XX         BG33-099XX           BG44-001XX         BG44-002XX         BG44-003XX         BG44-004XX           BG44-005XX         BG44-005XX         BG44-007XX         BG44-008XX           BG44-009XX         BG44-010XX         BG44-011XX         BG44-012XX           BG44-013XX         BG44-014XX         BG44-015XX         BG44-016XX           BG44-017XX         BG44-014XX         BG44-019XX         BG44-020XX           BG44-021XX         BG44-018XX         BG44-019XX         BG44-020XX           BG44-021XX         BG44-022XX         BG44-023XX         BG44-024XX           BG44-025XX         BG44-025XX         BG44-023XX         BG44-029XX           BG44-030XX         BG44-031XX         BG44-032XX         BG44-033XX           BG44-034XX         BG44-035XX         BG44-037XX         BG44-037XX           BG44-0403XX         BG44-0404XX			T	
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BG44-030XX         BG44-031XX         BG44-032XX         BG44-033XX           BG44-034XX         BG44-035XX         BG44-036XX         BG44-037XX           BG44-038XX         BG44-039XX         BG44-040XX         BG44-041XX           BG44-042XX         BG44-043XX         BG44-044XX         BG44-045XX           BG44-046XX         BG44-047XX         BG44-048XX         BG44-049XX           BG44-050XX         BG44-051XX         BG44-052XX         BG44-053XX           BG44-054XX         BG44-056XX         BG44-057XX         BG44-058XX           BG44-059XX         BG44-060XX         BG44-061XX         BG44-062XX           BG44-063XX         BG44-064XX         BG44-065XX         BG44-066XX           BG44-067XX         BG44-068XX         BG44-069XX         BG44-070XX           BG44-071XX         BG44-072XX         BG44-073XX         BG44-074XX           BG44-075XX         BG44-076XX         BG44-078XX         BG44-079XX           BG44-080XX         BG44-081XX         BG44-082XX         BG44-083XX           BG44-084XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-080XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG	BG44-021XX	BG44-022XX	BG44-023XX	BG44-024XX
BG44-034XX         BG44-035XX         BG44-036XX         BG44-037XX           BG44-038XX         BG44-039XX         BG44-040XX         BG44-041XX           BG44-042XX         BG44-043XX         BG44-044XX         BG44-045XX           BG44-046XX         BG44-047XX         BG44-048XX         BG44-049XX           BG44-050XX         BG44-051XX         BG44-052XX         BG44-053XX           BG44-054XX         BG44-056XX         BG44-057XX         BG44-058XX           BG44-059XX         BG44-060XX         BG44-061XX         BG44-062XX           BG44-063XX         BG44-064XX         BG44-065XX         BG44-066XX           BG44-067XX         BG44-068XX         BG44-069XX         BG44-070XX           BG44-071XX         BG44-072XX         BG44-073XX         BG44-074XX           BG44-075XX         BG44-075XX         BG44-078XX         BG44-079XX           BG44-080XX         BG44-081XX         BG44-082XX         BG44-083XX           BG44-084XX         BG44-085XX         BG44-080XX         BG44-087XX           BG44-089XX         BG44-090XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG44-094XX         BG44-095XX           BG44-096XX         BG44-093XX         BG	BG44-025XX	BG44-026XX	BG44-028XX	BG44-029XX
BG44-038XX         BG44-039XX         BG44-040XX         BG44-041XX           BG44-042XX         BG44-043XX         BG44-044XX         BG44-045XX           BG44-046XX         BG44-047XX         BG44-048XX         BG44-049XX           BG44-050XX         BG44-051XX         BG44-052XX         BG44-053XX           BG44-054XX         BG44-056XX         BG44-057XX         BG44-058XX           BG44-059XX         BG44-060XX         BG44-061XX         BG44-062XX           BG44-063XX         BG44-064XX         BG44-065XX         BG44-062XX           BG44-067XX         BG44-068XX         BG44-069XX         BG44-070XX           BG44-071XX         BG44-072XX         BG44-073XX         BG44-074XX           BG44-075XX         BG44-076XX         BG44-078XX         BG44-079XX           BG44-080XX         BG44-081XX         BG44-082XX         BG44-083XX           BG44-084XX         BG44-085XX         BG44-080XX         BG44-087XX           BG44-088XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG44-094XX         BG44-095XX           BG44-096XX         BG44-097XX         BG44-099XX         BG44-099XX           BG44-0903X1         BG44-099XX         B	BG44-030XX	BG44-031XX	BG44-032XX	BG44-033XX
BG44-042XX         BG44-043XX         BG44-044XX         BG44-045XX           BG44-046XX         BG44-047XX         BG44-048XX         BG44-049XX           BG44-050XX         BG44-051XX         BG44-052XX         BG44-053XX           BG44-054XX         BG44-056XX         BG44-057XX         BG44-058XX           BG44-059XX         BG44-060XX         BG44-061XX         BG44-062XX           BG44-063XX         BG44-064XX         BG44-065XX         BG44-066XX           BG44-067XX         BG44-068XX         BG44-069XX         BG44-070XX           BG44-071XX         BG44-072XX         BG44-073XX         BG44-074XX           BG44-075XX         BG44-076XX         BG44-078XX         BG44-079XX           BG44-080XX         BG44-081XX         BG44-082XX         BG44-083XX           BG44-084XX         BG44-085XX         BG44-086XX         BG44-087XX           BG44-088XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG44-090XX         BG44-095XX           BG44-096XX         BG44-097XX         BG44-098XX         BG44-099XX           BG44-090XX         BG44-090XX         BG44-099XX         BG44-099XX           BG44-090XX         BG44-090XX         BG	BG44-034XX	BG44-035XX	BG44-036XX	BG44-037XX
BG44-046XX         BG44-047XX         BG44-048XX         BG44-049XX           BG44-050XX         BG44-051XX         BG44-052XX         BG44-053XX           BG44-054XX         BG44-056XX         BG44-057XX         BG44-058XX           BG44-059XX         BG44-060XX         BG44-061XX         BG44-062XX           BG44-063XX         BG44-064XX         BG44-065XX         BG44-066XX           BG44-067XX         BG44-068XX         BG44-069XX         BG44-070XX           BG44-071XX         BG44-072XX         BG44-073XX         BG44-074XX           BG44-075XX         BG44-075XX         BG44-079XX         BG44-079XX           BG44-080XX         BG44-081XX         BG44-082XX         BG44-083XX           BG44-084XX         BG44-085XX         BG44-086XX         BG44-087XX           BG44-088XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG44-094XX         BG44-095XX           BG44-096XX         BG44-097XX         BG44-098XX         BG44-099XX           BG44-090XX         BG44-099XX         BG44-099XX           BG44-090XX         BG44-090XX         BG44-099XX           BG44-090XX         BG44-090XX         BG44-099XX	BG44-038XX	BG44-039XX	BG44-040XX	BG44-041XX
BG44-050XX         BG44-051XX         BG44-052XX         BG44-053XX           BG44-054XX         BG44-056XX         BG44-057XX         BG44-058XX           BG44-059XX         BG44-060XX         BG44-061XX         BG44-062XX           BG44-063XX         BG44-064XX         BG44-065XX         BG44-066XX           BG44-067XX         BG44-068XX         BG44-069XX         BG44-070XX           BG44-071XX         BG44-072XX         BG44-073XX         BG44-074XX           BG44-075XX         BG44-076XX         BG44-078XX         BG44-079XX           BG44-080XX         BG44-081XX         BG44-082XX         BG44-083XX           BG44-084XX         BG44-085XX         BG44-086XX         BG44-087XX           BG44-088XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG44-094XX         BG44-095XX           BG44-096XX         BG44-097XX         BG44-098XX         BG44-099XX           BG44-00301         BG44-20100         BG44-20101         BG44-20300	BG44-042XX	BG44-043XX	BG44-044XX	BG44-045XX
BG44-054XX         BG44-056XX         BG44-057XX         BG44-058XX           BG44-059XX         BG44-060XX         BG44-061XX         BG44-062XX           BG44-063XX         BG44-064XX         BG44-065XX         BG44-066XX           BG44-067XX         BG44-068XX         BG44-069XX         BG44-070XX           BG44-071XX         BG44-072XX         BG44-073XX         BG44-074XX           BG44-075XX         BG44-076XX         BG44-078XX         BG44-079XX           BG44-080XX         BG44-081XX         BG44-082XX         BG44-083XX           BG44-084XX         BG44-085XX         BG44-086XX         BG44-087XX           BG44-088XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG44-094XX         BG44-095XX           BG44-096XX         BG44-097XX         BG44-098XX         BG44-099XX           BG44-00301         BG44-20100         BG44-20101         BG44-20300	BG44-046XX	BG44-047XX	BG44-048XX	BG44-049XX
BG44-059XX         BG44-060XX         BG44-061XX         BG44-062XX           BG44-063XX         BG44-064XX         BG44-065XX         BG44-066XX           BG44-067XX         BG44-068XX         BG44-069XX         BG44-070XX           BG44-071XX         BG44-072XX         BG44-073XX         BG44-074XX           BG44-075XX         BG44-076XX         BG44-078XX         BG44-079XX           BG44-080XX         BG44-081XX         BG44-082XX         BG44-083XX           BG44-084XX         BG44-085XX         BG44-086XX         BG44-087XX           BG44-088XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG44-094XX         BG44-095XX           BG44-096XX         BG44-097XX         BG44-098XX         BG44-099XX           BG44-090X1         BG44-097XX         BG44-099XX         BG44-099XX           BG44-090X1         BG44-090XX         BG44-099XX         BG44-099XX           BG44-090X1         BG44-090XX         BG44-090XX         BG44-099XX           BG44-090X1         BG44-090XX         BG44-090XX         BG44-090XX	BG44-050XX	BG44-051XX	BG44-052XX	BG44-053XX
BG44-063XX         BG44-064XX         BG44-065XX         BG44-066XX           BG44-067XX         BG44-068XX         BG44-069XX         BG44-070XX           BG44-071XX         BG44-072XX         BG44-073XX         BG44-074XX           BG44-075XX         BG44-076XX         BG44-078XX         BG44-079XX           BG44-080XX         BG44-081XX         BG44-082XX         BG44-083XX           BG44-084XX         BG44-085XX         BG44-086XX         BG44-087XX           BG44-088XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG44-094XX         BG44-095XX           BG44-096XX         BG44-097XX         BG44-098XX         BG44-099XX           BG44-00301         BG44-20100         BG44-20101         BG44-20300	BG44-054XX	BG44-056XX	BG44-057XX	BG44-058XX
BG44-067XX         BG44-068XX         BG44-069XX         BG44-070XX           BG44-071XX         BG44-072XX         BG44-073XX         BG44-074XX           BG44-075XX         BG44-076XX         BG44-078XX         BG44-079XX           BG44-080XX         BG44-081XX         BG44-082XX         BG44-083XX           BG44-084XX         BG44-085XX         BG44-086XX         BG44-087XX           BG44-088XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG44-094XX         BG44-095XX           BG44-096XX         BG44-097XX         BG44-098XX         BG44-099XX           BG44-00301         BG44-20100         BG44-20101         BG44-20300	BG44-059XX	BG44-060XX	BG44-061XX	BG44-062XX
BG44-071XX         BG44-072XX         BG44-073XX         BG44-074XX           BG44-075XX         BG44-076XX         BG44-078XX         BG44-079XX           BG44-080XX         BG44-081XX         BG44-082XX         BG44-083XX           BG44-084XX         BG44-085XX         BG44-086XX         BG44-087XX           BG44-088XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG44-094XX         BG44-095XX           BG44-096XX         BG44-097XX         BG44-098XX         BG44-099XX           BG44-00301         BG44-20100         BG44-20101         BG44-20300	BG44-063XX	BG44-064XX	BG44-065XX	BG44-066XX
BG44-075XX         BG44-076XX         BG44-078XX         BG44-079XX           BG44-080XX         BG44-081XX         BG44-082XX         BG44-083XX           BG44-084XX         BG44-085XX         BG44-086XX         BG44-087XX           BG44-088XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG44-094XX         BG44-095XX           BG44-096XX         BG44-097XX         BG44-098XX         BG44-099XX           BG44-00301         BG44-20100         BG44-20101         BG44-20300	BG44-067XX	BG44-068XX	BG44-069XX	BG44-070XX
BG44-080XX         BG44-081XX         BG44-082XX         BG44-083XX           BG44-084XX         BG44-085XX         BG44-086XX         BG44-087XX           BG44-088XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG44-094XX         BG44-095XX           BG44-096XX         BG44-097XX         BG44-098XX         BG44-099XX           BG44-00301         BG44-20100         BG44-20101         BG44-20300	BG44-071XX	BG44-072XX	BG44-073XX	BG44-074XX
BG44-084XX         BG44-085XX         BG44-086XX         BG44-087XX           BG44-088XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG44-094XX         BG44-095XX           BG44-096XX         BG44-097XX         BG44-098XX         BG44-099XX           BG44-00301         BG44-20100         BG44-20101         BG44-20300	BG44-075XX	BG44-076XX	BG44-078XX	BG44-079XX
BG44-088XX         BG44-089XX         BG44-090XX         BG44-091XX           BG44-092XX         BG44-093XX         BG44-094XX         BG44-095XX           BG44-096XX         BG44-097XX         BG44-098XX         BG44-099XX           BG44-00301         BG44-20100         BG44-20101         BG44-20300	BG44-080XX	BG44-081XX	BG44-082XX	BG44-083XX
BG44-092XX         BG44-093XX         BG44-094XX         BG44-095XX           BG44-096XX         BG44-097XX         BG44-098XX         BG44-099XX           BG44-00301         BG44-20100         BG44-20101         BG44-20300	BG44-084XX	BG44-085XX	BG44-086XX	BG44-087XX
BG44-096XX         BG44-097XX         BG44-098XX         BG44-099XX           BG44-00301         BG44-20100         BG44-20101         BG44-20300	BG44-088XX	BG44-089XX	BG44-090XX	BG44-091XX
BG44-00301 BG44-20100 BG44-20101 BG44-20300	BG44-092XX	BG44-093XX	BG44-094XX	BG44-095XX
	BG44-096XX	BG44-097XX	BG44-098XX	BG44-099XX
BG44-20301 X=0,1,2,3,4,5,6,7,8,9	BG44-00301	BG44-20100	BG44-20101	BG44-20300
	BG44-20301			X=0,1,2,3,4,5,6,7,8,9

Remark: All models are identical in the same PCB layout, interior structure and electrical circuits. The only differences are the model name and appearance color for commercial purpose.

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# 5 General Information

#### 5.1 Client Information

Applicant:	BRAYTRON S.R.L.
Address of Applicant:	B.DUL IULIU MANIU, NR.616, CORP B, ETAJ 1 SECTOR 6, 061129, BUCHAREST, ROMANIA
Manufacturer:	DEMGRUP INTERNATIONAL LIGHTING LIMITED
Address of Manufacturer:	UNIT D 16/F, ONE CAPITAL PLACE, 18 LUARD ROAD, WAN CHAI, HONG KONG

## 5.2 General Description of E.U.T

	•	
	Product Name:	OUTDOOR LIGHTING FIXTURE
Brand Name: Braytron		Braytron
	Model No.:	Please Refer To Page 5-6.
	Test Model No.:	BG44-00301
	Power Supply:	AC220-240V, 50/60Hz, Max. 23W

## 5.3 Test mode

On mode Keep the EUT lighting	On mode
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# 5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number
Customer Furnished Equipment	LED light	BA38-0062	N/A

### 5.5 Deviation from Standards

None.

## 5.6 Abnormalities from Standard Conditions

None.

# 5.7 Monitoring of EUT for All Immunity Test

Visual:	Monitor the lighting of EUT
Audio:	N/A

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# **6** Test Instruments List

Rad	Radiated Emission: (30MHz-1000MHz):							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	N/A	N/A		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	EMI Test Receiver	ROHDE & SCHWARZ	ESRP	GTS602	Mar. 19 2021	Mar. 18 2022		
4	BiConiLog Antenna	SCHWARZBECK	VULB 9168	GTS606	Mar. 19 2021	Mar. 18 2022		
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 24 2021	June. 23 2022		
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 24 2021	June. 23 2022		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
8	Coaxial Cable	GTS	N/A	GTS213	June. 24 2021	June. 23 2022		
9	Coaxial Cable	GTS	N/A	GTS211	June. 24 2021	June. 23 2022		
10	Coaxial cable	GTS	N/A	GTS210	June. 24 2021	June. 23 2022		
11	Coaxial Cable	GTS	N/A	GTS212	June. 24 2021	June. 23 2022		
12	Amplifier(100kHz-3GHz)	N/A	LNA 0920N	GTS605	Mar. 19 2021	Mar. 18 2022		
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 24 2021	June. 23 2022		
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 24 2021	June. 23 2022		
15	Band filter	Amindeon	82346	GTS219	June. 24 2021	June. 23 2022		
16	Power Meter	Anritsu	ML2495A	GTS540	June. 24 2021	June. 23 2022		
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 24 2021	June. 23 2022		
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 24 2021	June. 23 2022		
19	Splitter	Agilent	11636B	GTS237	June. 24 2021	June. 23 2022		
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 24 2021	June. 23 2022		
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 8 2021	Oct. 7 2022		
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 8 2021	Oct. 7 2022		
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 8 2021	Oct. 7 2022		
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 24 2021	June. 23 2022		

Cor	Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 24 2021	June. 23 2022
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 24 2021	June. 23 2022
4	ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 24 2021	June. 23 2022
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 24 2021	June. 23 2022
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 24 2021	June. 23 2022



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9	ISN	SCHWARZBECK	NTFM 8158	GTS565	June. 24 2021	June. 23 2022
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Rac	Radiated Emissions (9kHz-30MHz):										
Item	Tool Faviorement	Manufacturar	Model No	Inventory	Cal.Date	Cal.Due date					
item	rest Equipment	Test Equipment Manufacturer Model No.		No.	(mm-dd-yy)	(mm-dd-yy)					
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022					
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 24 2021	June. 23 2022					
3	TPIPLE-LOOP ANTENNA	EVERFINE	LLA-2	GTS539	June. 24 2021	June. 23 2022					

ESE	ESD										
Item Test Equipment		Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)					
1	ESD Simulator	KIKUSUI	KES4021A	GTS242	June. 24 2021	June. 23 2022					
2	Thermo meter	KTJ	TA328	GTS243	June. 24 2021	June. 23 2022					

Con	Conducted Immunity										
Item	Test Equipment	est Equipment Manufacturer		Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)					
1	Signal Generator	ROHDE & SCHWARZ	SMB 100A	GTS553	June. 24 2021	June. 23 2022					
2	CDN	LionCEL	CDN-M3-16	GTS554	June. 24 2021	June. 23 2022					
3	CDN	CYBERTEK	EM 5070	GTS559	June. 24 2021	June. 23 2022					
4	Power amplifier	rflight	NTWPA-00010475	GTS555	June. 24 2021	June. 23 2022					
5	ATT	SUNWAVE	SJ-50-06DB	GTS556	June. 24 2021	June. 23 2022					
6	Clamp	SCHAFFNER	KEMZ 801	GTS558	June. 24 2021	June. 23 2022					

Har	Harmonic/ Flicker										
Item	Test Equipment	Manufacturer	Model No.	Inventory	Cal.Date	Cal.Due date					
iteiii		Manufacturer	woder No.	No.	(mm-dd-yy)	(mm-dd-yy)					
1	Power Analyzer H/F	EMTEST	DPA500	GTS235	June. 24 2021	June. 23 2022					
2	AC POWER SUPPLY	EMTEST	ACS500	GTS236	June. 24 2021	June. 23 2022					
3	Thermo meter	KTJ	TA328	GTS256	June. 24 2021	June. 23 2022					

EFT, S	EFT, Surge, Voltage dips and Interruption										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date	Cal.Due date					
item		Manaraotaror	Model No.	mvontory ito:	(mm-dd-yy)	(mm-dd-yy)					
1	EMTEST system	EMTEST	UCS500N	GTS239	June. 24 2021	June. 23 2022					
2	Clamp	EMTEST	HFK	GTS557	June. 24 2021	June. 23 2022					
3	Thermo meter	KTJ	TA328	GTS238	June. 24 2021	June. 23 2022					

Rad	Radiated Immunity										
ltem	tem Test Equipment Manufactu		lanufacturer Model No. Inventory No.		Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)					
1	Fully-Anechoic Chamber 2	Chang Zhou Zhong Shuo	854	SEM001-05	May. 08 2021	May. 07 2022					
2	Power Sensor	Rohde & Schwarz	NRP-Z91	SEM009-09	Mar. 31 2021	Mar. 30 2022					
3	Stacked LogPer Broadband Antenna (70MHz-10GHz)	Schwarzbeck	STLP 9129	SEM003-25	N/A	N/A					
4	Signal Generator	Rohde & Schwarz	SMB100A	SEM006-11	Mar. 31 2021	Mar. 30 2022					



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	(9kHz-6GHz)					
5	Broadband Amplifier (80MHz-1GHz)	Rohde & Schwarz	BBA150-BC250	SEM005-12	Sep. 22 2021	Sep. 21 2022
6	Broadband Amplifier(800MHz- 3GHz)	Rohde & Schwarz	BBA150-D110	SEM005-13	Mar. 31 2021	Mar. 30 2022
7	Broadband Amplifier(2.5GHz- 6GHz)	Rohde & Schwarz	BBA150-E60	SEM005-16	April. 10 2021	April. 09 2022
8	Measurement Software	Rohde & Schwarz	EMC32 V9.25.00	N/A	N/A	N/A

Ge	General used equipment:									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)				
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 24 2021	June. 23 2022				
2	Barometer	ChangChun	DYM3	GTS255	June. 24 2021	June. 23 2022				

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# 7 Emission Test Results

# 7.1 Radiated Emissions (9kHz-30MHz)

Test Requirement:	EN IEC 55015				
Test Method:	EN IEC 55015				
Test Frequency Range:	9kHz to 30MHz				
Limit:	Frequency range (I	MHz) l	for loop diameter		
	0.009-0.070		88		
	0.070-0.150		88 to 58*		
	0.15-3.0		58 to22*		
	3.0-30		22		
	*Decreasing linearly with the logarithm of the frequency.				
	For electrodeless lamps and luminaires, the limit in the frequency range of 2,2 MHz to 3,0 MHz is 58 dB( $\mu$ A) for 2 m, 51dB( $\mu$ A) for 3 m and 45 dB( $\mu$ A) for 4 m loop diameter.				
Test Setup:	Test Receives	Polarization Switcher			
Test procedure		n was performed in the er in peak detection mo	2m loop antenna using the de.		
	2. The EUT was me	easured for X(A), Y(B),	Z(C) polarities.		
			ere performed since no cted within 6dB of the limit		
Test Instruments:	Temp.: 25 C	Humid.: 50%	Press.: 1012mbar		
Measurement Record:			Uncertainty: ☑ 4.5dB		
Test Instruments:	Refer to section 6 for	details			
Test mode:	Refer to section 5.3 for details.				
Test results:	Pass				



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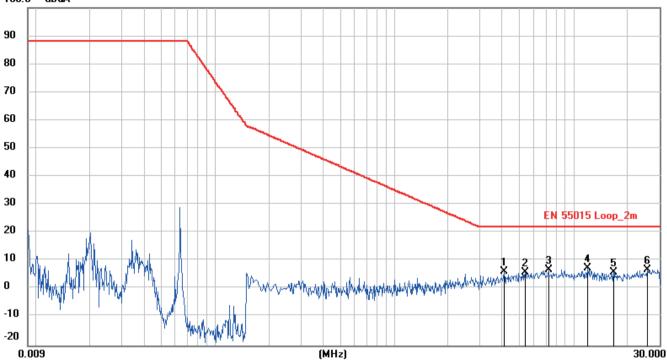
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#### **Measurement Data**





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuA)	dB	(dBuA)	(dBuA)	(dB)	
1	4.0876	-27.90	34.23	6.33	22.00	-15.67	QP
2	5.3566	-28.53	34.55	6.02	22.00	-15.98	QP
3	7.2286	-27.96	34.84	6.88	22.00	-15.12	QP
4	11.9086	-27.46	34.90	7.44	22.00	-14.56	QP
5	16.6471	-28.98	34.87	5.89	22.00	-16.11	QP
6	25.8451	-28.36	35.08	6.72	22.00	-15.28	QP



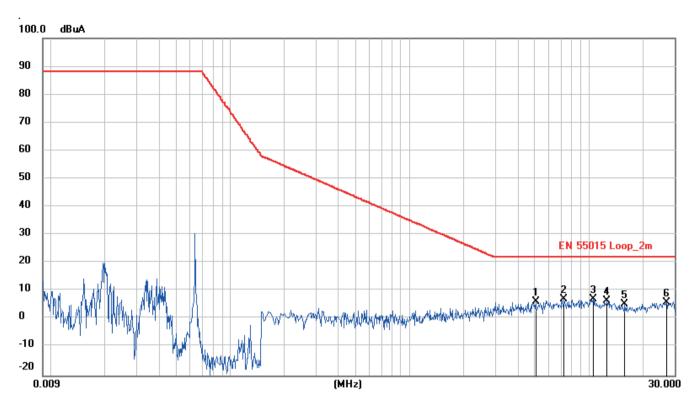
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Axial: Y



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuA)	dB	(dBuA)	(dBuA)	(dB)	
1	5.0461	-28.33	34.71	6.38	22.00	-15.62	QP
2	7.3006	-27.82	35.04	7.22	22.00	-14.78	QP
3	10.5856	-28.02	35.05	7.03	22.00	-14.97	QP
4	12.6151	-28.36	34.83	6.47	22.00	-15.53	QP
5	15.8281	-29.15	34.48	5.33	22.00	-16.67	QP
6	27.1996	-28.46	34.44	5.98	22.00	-16.02	QP



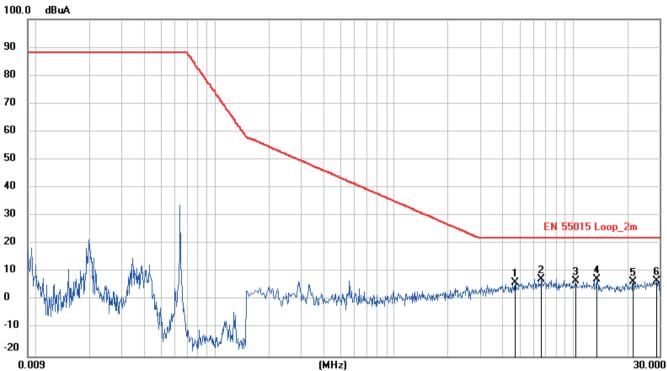
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuA)	dB	(dBuA)	(dBuA)	(dB)	
1	4.6906	-27.98	34.38	6.40	22.00	-15.60	QP
2	6.5851	-27.21	34.78	7.57	22.00	-14.43	QP
3	10.2346	-28.19	34.92	6.73	22.00	-15.27	QP
4	13.3576	-27.36	34.88	7.52	22.00	-14.48	QP
5	21.4891	-28.51	34.94	6.43	22.00	-15.57	QP
6	29.0131	-28.23	35.12	6.89	22.00	-15.11	QP

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# 7.2 Radiated Emissions (30MHz-1000MHz)

			1	
Test Requirement:	EN IEC 55015			
Test Method:	EN IEC 55015			
Test Frequency Range:	30MHz to 1000MHz			
Measurement Distance:	3m			
Limit:	Frequency range(MHz	z)	Limit (dBuV/m)	
	30 to 230		40.00	
	230 to 1000		47.00	
	<u>'</u>			
Test setup:	Test Receiver 10 market 100000000			
Test procedure	<ol> <li>The radiated emissions test was conducted in a semi-anechoic chamber.</li> <li>The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.</li> <li>Before final measurements of radiated emissions, a pre-scan was</li> </ol>			
	performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT.  4. The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance.  Measurements were performed for both horizontal and vertical antenna polarization.			
Test Instruments:	Temp.: 25 C Humid	l.: 50%	Press.: 1012mbar	
Measurement Record:			Uncertainty:   4.50dB	
Test Instruments:	Refer to section 6 for details		-	
Test mode:	Refer to section 5.3 for detai	ls.		
Test results:	Pass			



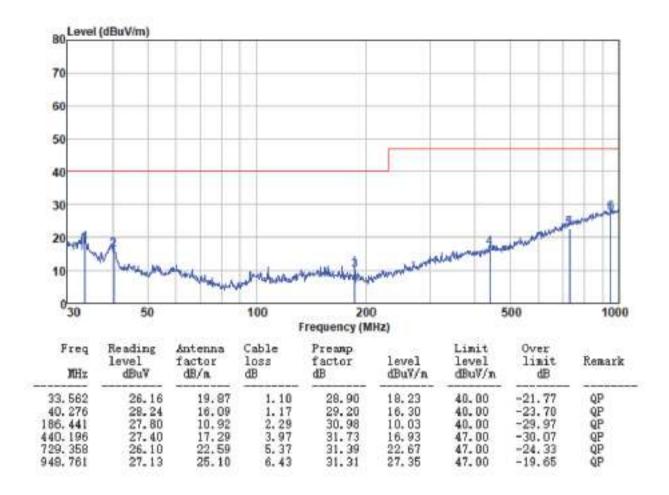
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#### **Measurement Data**

Test mode:	On mode	Antenna Polarity:	Horizontal	
------------	---------	-------------------	------------	--





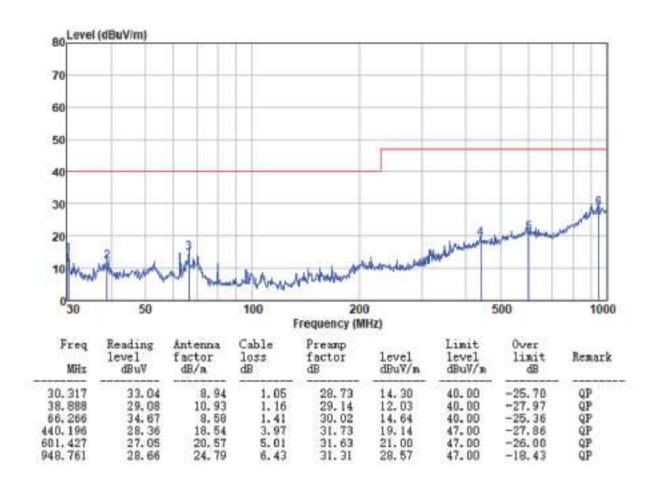
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Test mode: On mode Antenna Polarity: Vertical



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### 7.3 Conducted Emissions

Test Requirement:	EN IEC 55015				
Test Method:	EN IEC 55015				
Test Frequency Range:	9kHz to 30MHz				
Limit:	Face and (MIL)	Limit (	(dBuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.009-0.05	110	-		
	0.05-0.15	90-80*	-		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarith	m of the frequency.			
Test setup:	Reference	e Plane			
	AUX Equipment    E.U.T				
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment.				
	2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs).				
	3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to EN55022 Class B on conducted measurement.				
Test Instruments:	Temp.: 25 C Humid.	: 50% Pres	ss.: 1012mbar		
Measurement Record:		Und	certainty: 3.45dB		
Test Instruments:	Refer to section 6 for details				
Test mode:	Refer to section 5.3 for details.				
Test results:	Pass				



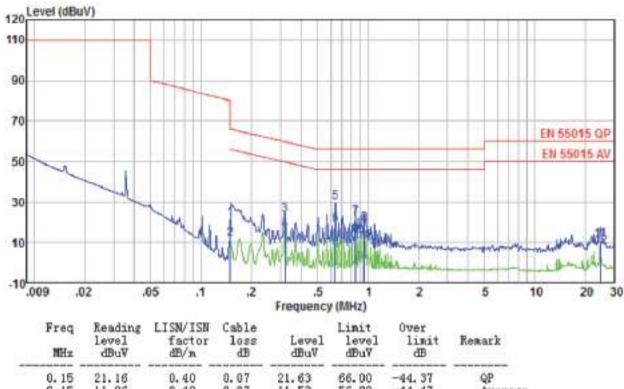
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#### **Measurement Data**





Freq MHz	level dBuV	factor dB/m	loss dB	Level dBuV	level dBuV	limit dB	Remark
0.15	21.16	0.40	0.07	21.63	66.00	-44. 37	QP
0.15	11.06	0.40	0.07	11.53	56.00	-44.47	Average
0.32	23.09	0.39	0.10	23.58	59.71	-36, 13	QP
0.32	15.36	0.39	0.10	15.85	49.71	-33, 86	Average
0.64	29.24	0.28	0.12	29.64	56.00	-26, 36	QP
0.64	18.40	0.28	0.12	18.80	46.00	-27, 20	Average
0.84	21.56	0.23	0.14	21.93	56.00	-34.07	QP
0.84	13.18	0.23	0.14	13.55	46.80	-32.45	Average
0.95	18.66	0.21	0.15	19.02	56.00	-36.98	QP
0.95	9.64	0.21	0.15	10.00	46.00	-36,00	Average
24.79	10.71	0.35	0.23	11.29	60.00	-48.71	QP
24.79	7. 25	0.35	0.23	7.83	50.00	-42.17	Average



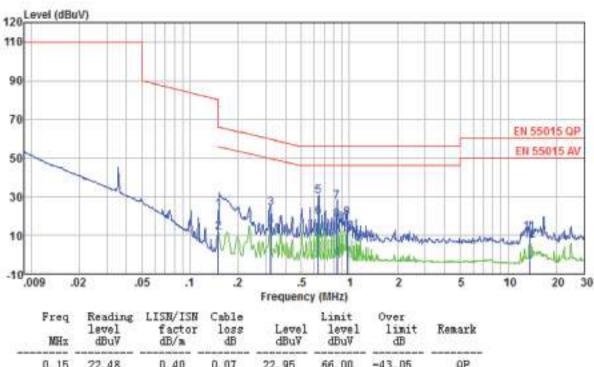
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Test mode: On mode Antenna Polarity: Neutral



Freq	Reading level dBuV	factor dB/a	Cable loss dB	Level dBuV	limit level dBuV	Over limit dB	Remark
0. 15 0. 15 0. 32 0. 32 0. 64 0. 64 0. 84 0. 84 0. 97 0. 97	22. 48 11. 27 23. 52 14. 61 30. 02 18. 98 27. 09 17. 32 18. 20 11. 32 11. 05	0. 40 0. 40 0. 39 0. 39 0. 28 0. 28 0. 23 0. 23 0. 21 0. 21	0.07 0.07 0.10 0.10 0.12 0.12 0.14 0.14 0.15 0.15	22. 95 11. 74 24. 01 15. 10 30. 42 19. 38 27. 46 17. 69 18. 56 11. 68 11. 46	66.00 56.00 59.66 49.66 56.00 46.00 56.00 46.00 56.00 60.00	-43.05 -44.26 -35.65 -34.56 -25.58 -26.62 -28.54 -28.31 -37.44 -34.32 -48.54	QP Average QP Average QP Average QP Average QP Average
13.55	6.71	0.20	0.21	7. 12	50.00	-42.88	Average

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### 7.4 Harmonics Current Emission

Test Requirement:	EN IEC 61000-3-2	EN IEC 61000-3-2				
Test Method:	EN IEC 61000-3-2	EN IEC 61000-3-2				
Frequency range:	100Hz to 2kHz	100Hz to 2kHz				
Measurement Time:	2.5 min	2.5 min				
Class/Severity:	Class C					
Detector:	As per EN 61000-3	As per EN 61000-3-2				
Test environment:	Temp.:24 C	Temp.:24 C Humid.: 51% Press.: 1012mbar				
Test Instruments:	Refer to section 6 f	Refer to section 6 for details				
Test mode:	Refer to section 5.3	Refer to section 5.3 for details				
Test results:	Pass					

# 7.5 Voltage Fluctuations and Flicker

Test Requirement:	EN 61000-3-3			
Test Method:	EN 61000-3-3			
Class/Severity:	Clause 5 of EN 61000-3-3			
Measurement Time:	10 min			
Detector:	As per EN 61000-3-3			
Test environment:	Temp.:24 C	Humid.: 51%	Press.: 1012mbar	
Test Instruments:	Refer to section 6 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			

## **Measurement Data**

	EUT values	Limit	Result
Pst	0.032	1.00	PASS
dc [%]	0.000	3.30	PASS
dmax [%]	0.057	4.00	PASS
dt [s]	0.000	0.50	PASS

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# 8 Immunity Test Results

# 8.1 Performance Criteria Description of EN 61547

Criterion A:	During the test no change of the luminous intensity shall be observed and the regulating control, if any, shall operate during the test as intended.
Criterion B:	During the test the luminous intensity may change to any value. After the test the luminous intensity shall be restored to its initial value within 1 min.
	Regulating controls need not function during the test, but after the test the mode of the control shall be the same as before the test provided that during the test no mode changing commands were given.
Criterion C:	During and after the test any change of the luminous intensity is allowed and the lamp(s) may be extinguished. After the test, within 30 min, all functions shall return to normal if necessary by temporary interruption of the mains supply and/or operating the regulating control.

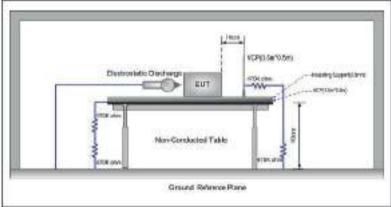
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# 8.2 Electrostatic Discharge

Test Requirement:	EN 61547		
Test Method:	EN 61000-4-2		
Discharge Voltage:	Contact Discharge: ±4kV		
	Air Discharge: ±8kV		
	HCP/VCP: ±4kV		
Polarity:	Positive & Negative		
Number of Discharge:	Minimum 10 times at each test point.		
Discharge Mode:	Single Discharge		
Discharge Period:	1 second minimum		
Performance Criterion:	В		
Test setup:			

## rest setup.



### **Test Procedure:**

#### Air discharge:

The test was applied on non-conductive surfaces of EUT. The round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT. After each discharge, the discharge electrode was removed from the EUT. The generator was re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure was repeated until all the air discharge completed

### 2. Contact Discharge:

The test was applied on conductive surfaces of EUT. the generator was re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. the tip of the discharge electrode was touch the EUT before the discharge switch was operated.

## 3. Indirect discharge for horizontal coupling plane

At least 10 single discharges shall be applied at the front edge of each HCP opposite the centre point of each unit of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

Consideration should be given to exposing all sides of the EUT.

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	4. Indirect discharge for vertical coupling plane At least 10 single discharges were applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, was placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges were applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.				
Test environment:	Temp.: 24 C Humid.: 51% Press.: 1012mbar				
Test mode:	Refer to section 5.3 for detail				
Test Instruments:	Refer to section 6 for details				
Test results:	Pass				

#### Measurement Record:

Measurement Record								
Toot points:	I: Screw							
Test points:	II: Seams							
Direct discharge								
Discharge Voltage (KV)	Type of discharge	Test points	Observations (Performance Criterion)	Result				
4	Contact	I	А	Pass				
8	Air	II	А	Pass				
Indirect discharge								
Discharge Voltage (KV)	Type of discharge	Test points	Observation Performance	Result				
4	HCP-Bottom/Top/ Front/Back/Left/Right	Edge of the HCP	А	Pass				
4	VCP-Front/Back /Left/Right	Center of the VCP	А	Pass				

Remark:

Performance Criteria: A, B, C: Refer to section 8.1 for details

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# 8.3 Radiated Immunity

Test Requirement:	EN 61547			
Test Method:	EN 61000-4-3			
Frequency range:	80MHz to 1GHz			
Test Level:	3V/m			
Modulation:	80%, 1kHz Amplitude Modulation			
Performance Criterion:	A			
Test setup:				
τεσι σειαμ.	Careers  Asserting Towner  (Turntselle)  Ground Reference Plane Signal Generalize Amplifice			
Test Procedure:	<ol> <li>For table-top equipment, the EUT was placed in the chamber on a non-conductive table 0.8m high. For arrangement of floor-standing equipment, the EUT was mounted on a non-conductive support 0.1m above the supporting plane. For human body-mounted equipment, the EUT may be tested in the same manner as table top items.</li> <li>If possible, a minimum of 1 m of cable is exposed to the electromagnetic field. Excess length of cables interconnecting units of the EUT shall be bundled low-inductively in the approximate center of the cable to form a bundle 30 cm to 40 cm in length.</li> </ol>			
	3. The EUT was initially placed with one face coincident with the calibration plane. The EUT face being illuminated was contained within the UFA (Uniform Field Area).			
	4. The frequency ranges to be considered were swept with the signal modulated and pausing to adjust the RF signal level or to switch oscillators and antennas as necessary. Where the frequency range was swept incrementally, the step size was not exceed 1 % of the preceding frequency value.			
	5. The dwell time of the amplitude modulated carrier at each frequency was not be less than the time necessary for the EUT to be exercised and to respond, and was not less than 0,5 s.			
	6. The test normally was performed with the generating antenna facing			

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	each side of the EUT	each side of the EUT.				
	7. The polarization of the field generated by each antenna necessitatesting each selected side twice, once with the antenna positioned vertically and again with the antenna positioned horizontally.					
	8. The EUT was performed in a configuration to actual installation conditions, a video camera and/or a audio monitor were used to monitor the performance of the EUT.					
Test environment:	Temp.: 25 C Humid.: 52% Press.: 1012mbar					
Test Instruments:	Refer to section 6 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass	Pass				

#### Measurement Record:

Frequency Level		Modulation	Antenna	EUT Face	Observations
Frequency Level	Level	Modulation	Polarization	LOTTACE	(Performance Criterion)
			V	Front	A
			Н	Front	A
		V	Rear	A A	
		1 kHz,	Н	Real	А
			V	Left	А
80 MHz-1 GHz	3 V/m	80 % Amp. Mod,	Н	Leit	A
60 MHZ-1 GHZ	3 V/III	1 % increment, dwell	V	Diabt	А
		time=3seconds	Н	Right	A
			V	Ton	А
			Н	Тор	Α
			V	Pottom	A
			Н	Bottom	A

Remarks:

Performance Criteria: A, B, C: Refer to section 8.1 for details

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## 8.4 Electrical fast transients

Test Requirement:	EN 61547			
Test Method:	EN 61000-4-4			
Test Level:	1.0kV on AC port			
Polarity:	Positive & Negative			
Repetition Frequency:	5kHz			
Burst Duration:	15ms			
Burst Period:	300ms			
Test Duration:	2 minute per level & polarity			
Performance Criterion:	В			
Test setup:	Bocm Non-conducted table Ground Reference Plane  Ground Reference Plane			
Test Procedure:	<ol> <li>The EUT and its simulators were placed on the ground reference plane and were insulated from it by a wood support 0.1m + 0.01m thick.</li> <li>The ground reference plane was 1m*1m metallic sheet with 0.65mm minimum thickness.</li> <li>This reference ground plane was project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane was more than 0.5m. All cables to the EUT was placed on the wood support, cables not subject to EFT/B was routed as far as possible from the cable under test to minimize the coupling between the cables.</li> <li>The EUT is connected to the power mains through a coupling device that directly couples the EFT/B interference signal.</li> <li>Each of the Line and Neutral conductors is impressed with burst noise for 2 minutes.</li> <li>The length of the signal and power lines between the coupling device and the EUT is 0.5m</li> </ol>			
Test environment:	Temp.: 26 C Humid.: 54% Press.: 1012mbar			
Test Instruments:	Refer to section 6 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			



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#### **Measurement Record:**

Lead under Test	Level (⊠kV)	Coupling Direct/Clamp	Observations (Performance Criterion)	Result
L	1.0	Direct	А	Pass
N	1.0	Direct	А	Pass
L-N	1.0	Direct	A	Pass

Remarks:

Performance Criteria: A, B, C: Refer to section 8.1 for details

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# 8.5 Surges

Test Requirement:	EN 61547					
Test Method:	EN 61000-4-5					
Test Level:	Characteristics	Self-ballas	emi-	res and independent auxiliaries		
		luminaire	es ≤25W	>25W		
	Line to line	±0.5kV	±0.5kV	±1.0kV		
	Line to ground	±1.0kV	±1.0kV	±2.0kV		
	Note: In addition to IEC 61000-4-5 sho			test levels as detailed in		
Polarity:	Positive & Negative	е				
Generator source impedance:	$2\Omega$ (line-line coupling)					
No. of surges:	5 positive at 90 , 5 negative at 270					
Performance Criterion:	С					
Test setup:	Stoungus eabl	n-conducted to	able Ground Reference	e-Plane		
Test procedure	open-circuit con points, and for points, and for 2. At least 5 pos repetition rate 3. Different phas 4. Record the EU	ondition) and 8 ractive line / ractive line / ractive and 5 negare applied do see angles are of the an	8/20us current surg- neutral lines to grou gative (polarity) test uring test. done individually.	nd. s with a maximum 1/min upliance test and decide		
Test environment:	Temp.: 26 C	Hur	mid.: 53%	Press.: 1012mbar		
Test Instruments:	Refer to section 6	for details				
Test mode:	Refer to section 5.3	3 for details				
Test results:	Pass					



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#### **Measurement Record:**

Location	Level(kV)	Pulse No	Surge Interval	Phase(deg)	Observations (Performance Criterion)	Result
L-N	+0.5	E	60s	90	٨	Door
L-IN	-0.5	5	005	270	A	Pass

Remarks:

Performance Criteria: A, B, C: Refer to section 8.1 for details

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# 8.6 Conducted Immunity

Test Requirement:	EN 61547				
Test Method:	EN 61000-4-6				
Frequency range:	0.15MHz to 80MHz				
Test Level:	3V rms on AC Ports (unmodulated emf into 150 )				
Modulation:	80%, 1kHz Amplitude Modulation				
Performance Criterion:	A				
Test setup:	Shielding Room  Signal timenater  Preser  Amplifier  Fixed Pad  CNO  EUT  Landading Sayson  Ground Reference Plane				
Test Procedure:	<ol> <li>The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).</li> <li>The disturbance signal described below is injected to EUT through CDN.</li> </ol>				
	3. The EUT operates within its operational mode(s) under intended climatic conditions after power on.				
	4. Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.				
Test environment:	Temp.: 24 C Humid.: 51% Press.: 1012mbar				
Test Instruments:	Refer to section 6 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				



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#### Measurement Record:

Frequency	Injected Position	Level	Modulation	Observations (Performance Criterion)	Result
150kHz to 80MHz	AC Mains	3Vrms	1 kHz, 80 % Amp. Mod, 1 % increment, dwell time=2seconds	А	Pass

Remark:

Performance Criteria: A, B, C: Refer to section 8.1 for details

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# 8.7 Voltage Dips and Interruptions

Test Requirement:	EN 61547				
Test Method:	EN 61000-4-11				
Test Level:	0% of U <sub>T</sub> (Supply Voltage) for 0.5 Periods				
	70 % of U <sub>T</sub> (Supply Voltage) for 10 Periods				
No. of Dips / Interruptions:	3 per Level				
Performance Criterion:	100% VDPerformance criterion: B				
	30% VDPerformance criterion: C				
Test setup:	B0cm Non-conducted table Ground Reference Plane  Ground Reference Plane				
Test Procedure:	<ol> <li>The EUT and test generator were setup as shown on above setup photo.</li> <li>The interruptions are introduced at selected phase angles with specified duration.</li> </ol>				
Test environment:	3. Record any degradation of performance.  Temp.: 26 C Humid.: 53% Press.: 1 012mbar				
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
Test Instruments:	Refer to section 6 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

## **Measurement Record:**

Test Level % UT	Duration (Periods)	Phase angle	No. of drop out	Time between dropout	Observations (Performance Criterion)	Result
0	0.5	0 ,90 ,180 ,270	3	10s	А	Pass
70	10	0 ,90 ,180 ,270	3	10s	В	Pass

Remark:

Performance Criteria: A, B, C: Refer to section 8.1 for details

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# 9 EUT Constructional Details





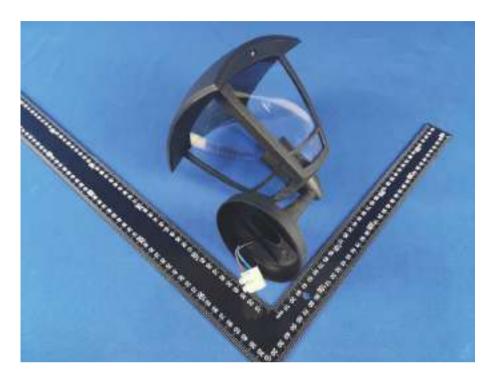


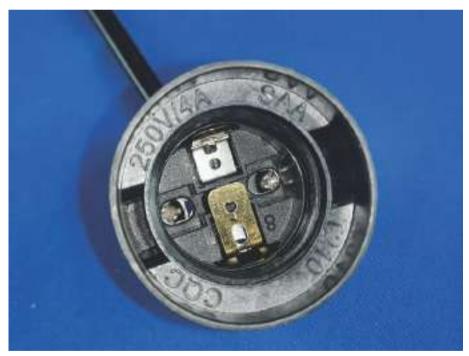
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