

EMC TEST REPORT

Applicant	:	Mid Ocean Brands B.V.	
Address of Applicant	:	7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong	
Manufacturer	:	Mid Ocean Brands B.V.	
Address of Manufacturer	:	7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong	
Equipment under Test	:	Star shaped MDF wood ornament with led light and hanging cord	
Model No.	:	CX1527	
Test Standard(s)	:	EN IEC 55015:2019+A11:2020 EN IEC 61547:2023	
Report No.	:	A2504276-C03-R01	
Issue Date	:	2025/05/07	
Issued By	•	Shenzhen Alpha Product Testing Co., Ltd. Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen City, Guangdong Province, P.R. China.	

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Equipment under Test	:	Star shaped MDF wood ornament with led light and hanging cord
Model No.	:	CX1527
Trade Mark	:	1

Test Standard Used:

EN IEC 55015:2019+A11:2020

Lily Wang/Engineer

EN IEC 61547:2023

We Declare:

The equipment described above is tested by Shenzhen Alpha Product Testing Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	A2504276-C03-R01		
Date of Receipt:	2025/04/25	Date of Test:	2025/04/25-2025/04/25
P	repared By:		Approved By:
)	ily wang		Tango

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Jack Xu/EMC Manager

Revision History

Rev.	Revisions	Issue Date	Revised By
V0	Initial issue	2025/05/07	Lily Wang

1. Summary of Test Results

EMISSION (EMI)				
Description of Test Item	Standard	Result	Memo	
Radiated emissions test (9 kHz- 30 MHz)	EN IEC 55015:2019+A11:2020	PASS	1	
Radiated emissions test (30 MHz-1000MHz)	EN IEC 55015:2019+A11:2020	PASS	1	
IMMUNITY (EMS)				
Description of Test Item	Standard	Result	Memo	
Electrostatic Discharge Test	EN IEC 61547:2023, IEC 61000-4-2:2008	PASS	1	
Continuous Radio Frequency Disturbances Test	EN IEC 61547:2023, IEC 61000-4-3:2020	PASS	1	

Note 1: N/A or / is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.

Note 2: For the EMI measurements have made the EUT operated in a mode producing the highest emission level, and attempted to vary the configuration of the EUT radiated the highest emission. For the EMS measurements have made the EUT operated in the most sensitive mode.

2. General Test Information

2.1. Description of EUT

EUT* Name	:	Star shaped MDF wood ornament with led light and hanging cord
Model Number	:	CX1527
Difference of model number	:	/
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	DC 4.5V From Battery
EUT Class (Only For EMI)	:	/
Maximum Work Frequency	:	/
Sample Number	:	A2504276-S0003

Note 1: EUT is the abbreviation of equipment under test.

Note 2: " \boxtimes " means to be chosen or applicable; " \square " means don't to be chosen or not applicable; This note applies to entire report.

2.2. Primary function of EUT

Function	Description
⊠Lighting	N/A

2.3. Port of EUT

Port	Description
	/

2.4. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

2.5. Test mode description

Mode 1 Lighting	DC 4.5V From Battery
-----------------	----------------------

2.6. Decision of final test mode

According pre-test, the worst test modes were reported as below.

Emission	Radiated emissions test (9 kHz-30 MHz)	Mode 1: Lighting
	Radiated emissions test (30 MHz-1000MHz)	Mode 1: Lighting
Immunity	Electrostatic Discharge Test	Mode 1: Lighting
,	Continuous Radio Frequency Disturbances Test	Mode 1: Lighting

2.7. Deviations of test standard

No deviation.

2.8. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	20-25℃
Humidity range:	40-75%
Pressure range:	86-106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.9. Test laboratory

Shenzhen Alpha Product Testing Co., Ltd.

Add.: Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen City,

Guangdong Province, P.R. China.

Tel.: 4008-3008-95, Website: http://www.a-lab.cn, Email: service@a-lab.cn

2.10. Measurement uncertainty

Test Item	Uncertainty	
Uncertainty in conducted measurements	1.63dB	
Uncertainty for radiation emission	3.74 dB (Distance: 3m Polarize: V)	
test(30 MHz-1 GHz)	3.76 dB (Distance: 3m Polarize: H)	
Uncertainty for radiation disturbance test	3.77 dB (Distance: 3m Polarize: V)	
(1 GHz to 18 GHz)	3.80 dB (Distance: 3m Polarize: H)	

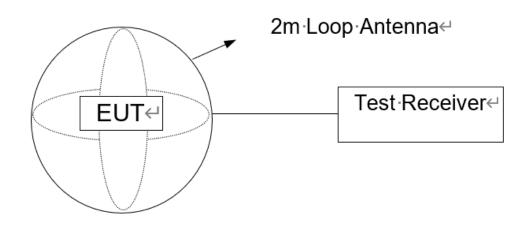
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Radiated emissions test (9 kHz-30 MHz)

3.1. Test equipment

Equipment	Manufacturer	Model No.	Equipment No.	Cal Due To
TRIPLE-LOOP ANTENNA	EVERFINE	LLA-2	Aa-EE008	2025/08/07
Test Receiver	ROHDE&SCHWARZ	ESPI	Aa-EE002	2025/08/07

3.2. Block diagram of test setup



3.3. Limits

Limits for loop diameter (dBµA)		
2m		
88		
88 ~ 58*		
58 ~ 26*		
58		
22		

Notes:

- 1. * Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

3.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description
/	/	/	/

3.5. Test procedure

The EUT was placed on a wood table in the center of a loop antenna. The induced current in the loop antenna is measured by means of a current probe and the test receiver. A three-field component was checked by means of a coaxial switch.

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The frequency range from 9 kHz to 30 MHz was checked. The receiver was measured with the quasi-peak detector. For frequency band 9 kHz to 150 kHz.

The bandwidth of the field strength meter (R&S test receiver ESCI) is set at 200Hz for frequency 9 kHz to 150 kHz and 10 kHz for frequency 150 kHz to 30 MHz.

3.6. Test result

PASS. (See below detailed test result)

Note 1: All emissions not reported below are too low against the prescribed limits.

Note 2: "----" means Peak detection; "----" means Average detection.

3.7. Test data



深圳阿尔法商品检验有限公司

Shenzhen Alpha Product Testing Co., Ltd.

地址: ALPHA 广东省深圳市宝安区福永街道立新路 2 号 i 栋

TEL: 4008-3008-95

Site LAB 966 Chamber 2

Limit: EN IEC 55015 EM-2M EUT/Task No : A2504276-C03

M/N/Sample No: A2504276-S0003

: Mode 1 Mode

Note:

Engineer Signature:

Polarization: X

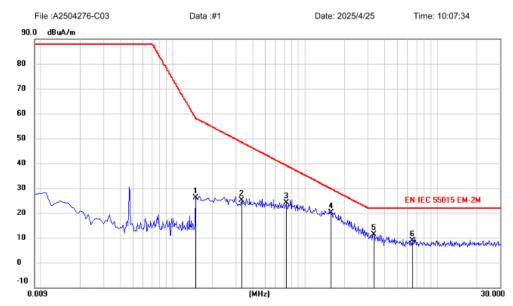
Power: DC 4.5V From Battery

Temperature: 22.3

Humidity: 56 %

Distance: 3m

Radiated Emission Measurement



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
	MHz	dBuA/m	dB	dBuA/m	dBuA/m	dB	Detector	cm	degree	Comment
1	0.1500	26.02	0.00	26.02	58.00	-31.98	peak			
2	0.3300	25.07	0.00	25.07	48.53	-23.46	peak			
3	0.7215	24.22	0.00	24.22	39.12	-14.90	peak			
4 *	1.5805	20.16	0.08	20.24	29.70	-9.46	peak			
5	3.3205	11.36	0.12	11.48	22.00	-10.52	peak			
6	6.5205	8.80	0.17	8.97	22.00	-13.03	peak			

Note:1. *: Maximum data; x: Over limit; !: over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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Shenzhen Alpha Product Testing Co.,Ltd.

地址: ALPHA 广东省深圳市宝安区福永街道立新路 2 号 i 栋

Power: DC 4.5V From Battery

TEL: 4008-3008-95

Site LAB 966 Chamber 2

Limit: EN IEC 55015 EM-2M EUT/Task No : A2504276-C03

M/N/Sample No: A2504276-S0003

Mode : Mode 1

Note:

Engineer Signature:

Polarization:

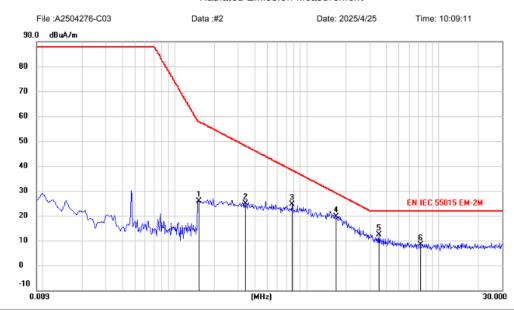
Distance: 3m

Temperature:

22.3

Humidity: 56 %

Radiated Emission Measurement



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
	MHz	dBuA/m	dB	dBuA/m	dBuA/m	dB	Detector	cm	degree	Comment
1	0.1527	25.99	0.00	25.99	57.79	-31.80	peak			
2	0.3435	24.76	0.00	24.76	48.04	-23.28	peak			
3	0.7755	24.56	0.00	24.56	38.26	-13.70	peak			
4 *	1.6605	19.49	0.08	19.57	29.11	-9.54	peak			
5	3.5005	12.33	0.13	12.46	22.00	-9.54	peak			
6	7.2405	8.21	0.18	8.39	22.00	-13.61	peak			

Note:1. *: Maximum data; x: Over limit; !: over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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深圳阿尔法商品检验有限公司

地址: ALPHA 广东省深圳市宝安区福永街道立新路 2 号 i 栋

TEL: 4008-3008-95

Site LAB 966 Chamber 2 Limit: EN IEC 55015 EM-2M

EUT/Task No : A2504276-C03

M/N/Sample No: A2504276-S0003

Mode : Mode 1

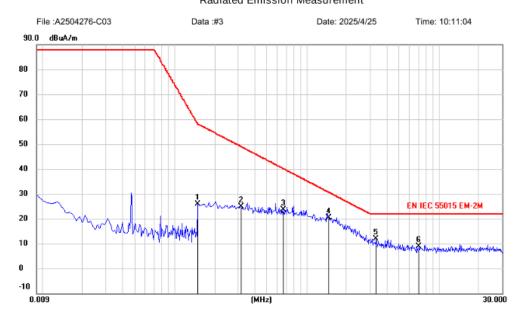
Note:

Engineer Signature:

22.3 Polarization: Z Temperature: Power: DC 4.5V From Battery Humidity: 56 %

Distance: 3m

Radiated Emission Measurement



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
	MHz	dBuA/m	dB	dBuA/m	dBuA/m	dB	Detector	cm	degree	Comment
1	0.1500	25.95	0.00	25.95	58.00	-32.05	peak			
2	0.3168	24.99	0.00	24.99	49.02	-24.03	peak			
3	0.6675	23.60	0.00	23.60	40.06	-16.46	peak			
4	1.4605	20.21	0.07	20.28	30.65	-10.37	peak			
5 *	3.3405	11.65	0.13	11.78	22.00	-10.22	peak			
6	7.0605	8.61	0.18	8.79	22.00	-13.21	peak			

Note:1. *: Maximum data; x: Over limit; !: over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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3.8. Test photo

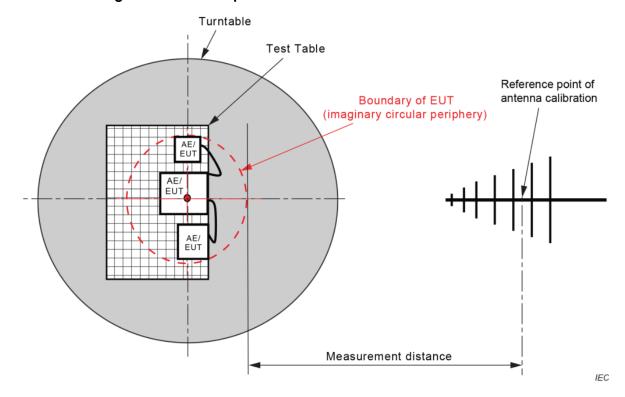


4. Radiated emissions test (30 MHz-1000MHz)

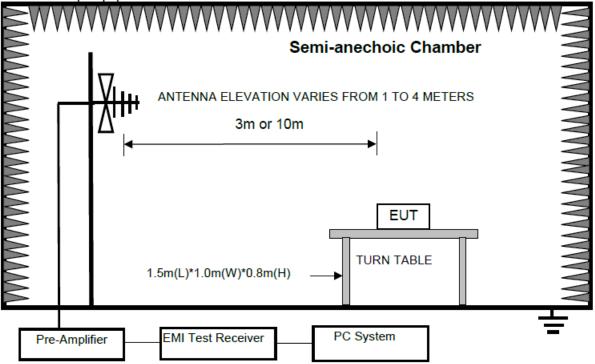
4.1. Test equipment

Equipment	Manufacturer	Model No.	Equipment No.	Cal Due To
Bilog Antenna	SCHWARZBECK	VULB 9168	Aa-EE001	2025/08/27
Test Receiver	ROHDE&SCHWARZ	ESR	Aa-EE048	2025/08/07
Horn Antenna	SCHWARZBECK	BBHA 9120 D	Aa-EE076	2025/08/18
Horn Antenna	SCHWARZBECK	BBHA 9170	Aa-EE077	2025/08/18
RF Cable	Resenberger	Cable 1	Aa-EE052	2025/08/07
Spectrum analyzer	ROHDE&SCHWARZ	FSU	Aa-EE075	2025/08/07
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	Aa-EE081	2025/08/07
Amplifier	SKET	LNPA_0118G-45	Aa-EE087	2025/08/07
Preamplifier	SKET	LNPA_1840-50	Aa-EE079	2025/08/07

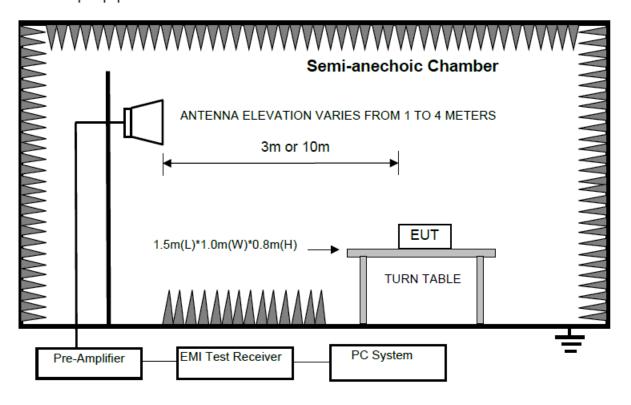
4.2. Block diagram of test setup



Below 1 GHz For table-top equipment



Above 1 GHz For table-top equipment



4.3. Limits

Frequency	Field Strengths Limits at 10m measuring distance dB(µV)/m	Field Strengths Limits at 3m measuring distance dB(µV)/m
30 MHz to 230 MHz	30	40

230 MHz to 1000 MHz	37	47
Note:		

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- (1) The smaller limit shall apply at the cross point between two frequency bands.
- (2) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description
1	/	/	/

4.5. Test procedure

The EUT was placed on a non-metallic table (Refer to the 'Block diagram of test setup'). above the ground plane inside an anechoic chamber.

Setup the EUT and assistant equipment as shown above block diagram and equipment list.

Test antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to EN IEC 55015 on radiated emission test.

The bandwidth setting of the test receiver is 120 kHz.

The frequency range from 30 MHz to 300 MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values.

4.6. Test result

PASS. (See below detailed test result)

Note 1: All emissions not reported below are too low against the prescribed limits.

Note 2: "----" means Peak detection; "----" means Average detection.

4.7. Test data



深圳阿尔法商品检验有限公司

Shenzhen Alpha Product Testing Co.,Ltd.

地址: ALPHA 广东省深圳市宝安区福永街道立新路 2 号 i 栋

TEL: 4008-3008-95

Site LAB 966 Chamber 1 Limit: EN IEC 55015 Radiation

EUT/Task No : A2504276-C03 M/N/Sample No: A2504276-S0003

: Mode 1 Mode

Note:

Engineer Signature:

Polarization: Vertical

Temperature: Humidity: 56 %

22.3

Power: DC 4.5V From Battery

Distance: 3m

Radiated Emission Measurement

80.0	dBuV.	/m																			
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No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		38.4135	14.37	14.25	28.62	40.00	-11.38	peak			
2		48.3528	13.94	14.03	27.97	40.00	-12.03	peak			
3		114.8161	14.26	12.38	26.64	40.00	-13.36	peak			
4		154.3461	13.09	14.99	28.08	40.00	-11.92	peak			
5		420.3960	13.83	16.77	30.60	47.00	-16.40	peak			
6	*	772.8022	14.38	22.79	37.17	47.00	-9.83	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.

^{2.}Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.



深圳阿尔法商品检验有限公司 Shenzhen Alpha Product Testing Co., Ltd.

地址: ALPHA 广东省深圳市宝安区福永街道立新路 2 号 i 栋

TEL: 4008-3008-95

Site LAB 966 Chamber 1 Polarization: Horizontal Limit: EN IEC 55015 Radiation Power: DC 4.5V From Battery

EUT/Task No : A2504276-C03

M/N/Sample No: A2504276-S0003 Mode : Mode 1

Note:

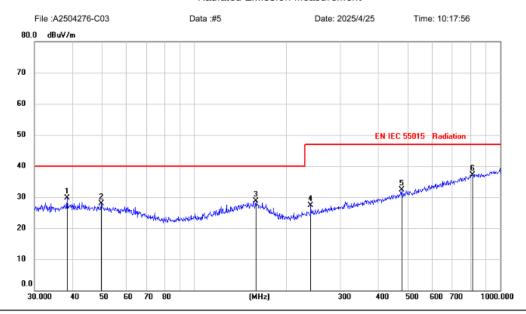
Engineer Signature:

22.3 Temperature:

Humidity: 56 %

Distance: 3m

Radiated Emission Measurement

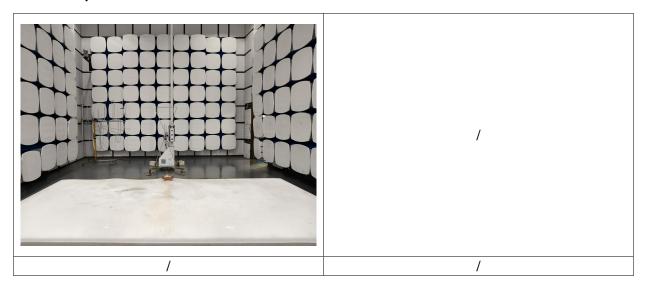


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		38.3799	15.44	14.24	29.68	40.00	-10.32	peak			
2		49.6412	13.81	14.00	27.81	40.00	-12.19	peak			
3		159.1552	13.74	15.00	28.74	40.00	-11.26	peak			
4		240.8302	14.82	12.56	27.38	47.00	-19.62	peak			
5		476.9601	14.43	17.88	32.31	47.00	-14.69	peak			
6	*	812.3990	13.96	23.11	37.07	47.00	-9.93	peak			

Note:1. *: Maximum data; x: Over limit; !: over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

4.8. Test photo



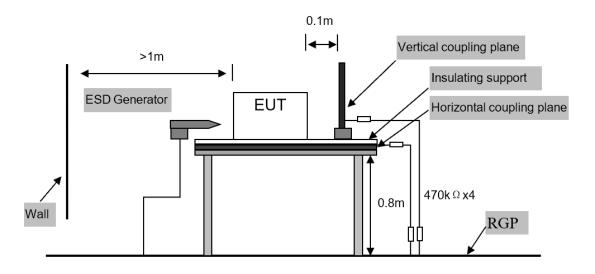
5. Electrostatic Discharge Test

5.1. Test equipment

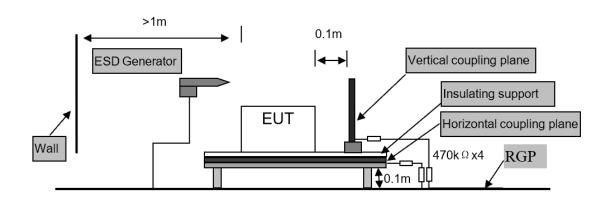
Equipment	Manufacturer	Model No.	Equipment No.	Cal. Due to
ESD Tester	HAEFELY	PESD1610	Aa-EE009	2025/08/12
ESD Tester	3ctest	EDS 30V	Aa-EE113	2026/03/06

5.2. Block diagram of test setup

Table-top equipment



Floor-standing equipment



5.3. Test levels and performance criterion

	Performance Criteria	
Air Discharge	±2kV, ±4kV and ±8kV	D
Contact Discharge	±4kV	В

Performance criteria B description: During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test. After the test, the EUT shall continue to operate as intended without operator intervention. No degradation

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of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the EUT is used as intended.

5.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description
/	/	/	/

5.5. 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 20 times for each pre-selected test point. This procedure was repeated until all the air discharge completed.

Contact Discharge:

All the procedure was same as air discharge. Except that the generator was re-triggered for a new single discharge. The tip of the discharge electrode was touching the EUT before the discharge switch was operated.

Indirect discharge for horizontal coupling plane:

At least 20 single discharges were applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

Indirect discharge for vertical coupling plane:

At least 20 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.

5.6. Test result

Test Site: ESD Laboratory	Test Date: 2025/04/252025/04/25
Condition: 23.4°C,57%RH,101.6kPa	Test Engineer: Lily Wang
Memo: /	

EUT Name: Star shaped MDF wood ornament with led light and hanging cord	EUT Model: CX1527						
Sample No.: A2504276-S0003	Test Mode: Lighting						
Power supply: DC 4.5V From Battery	Memo:/						
Measure parameters: 20 times at each point for contact discharge; 20 times at each point for air							

Measure parameters: 20 times at each point for contact discharge; 20 times at each point for air discharge. 1 second interval for each discharge.

Type of discharge	Test level	Test point	Required	Observation	Result
Contact to EUT	±4kV	Δ	В	N/A	N/A
Contact to coupling planes	±4kV	Coupling planes	В	А	Pass
Air	±2 kV /±4 kV /±8kV	0	В	А	Pass

Observation description:

A: Normal performance within limits specified by the manufacturer requestor or purchaser.

B: Temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention.

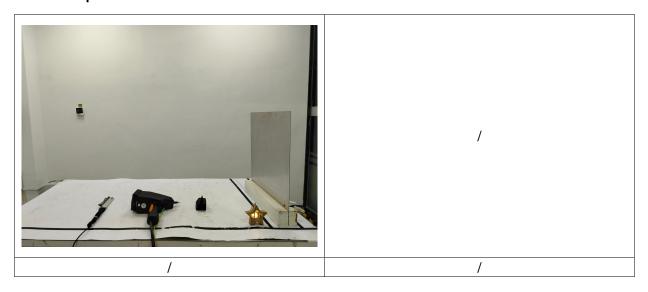
Note: "▲"---contact discharge, "O"---air discharge.

EUT does not contain metal contact points, not need to contact discharge measurement

5.7. ESD test points



5.8. Test photo

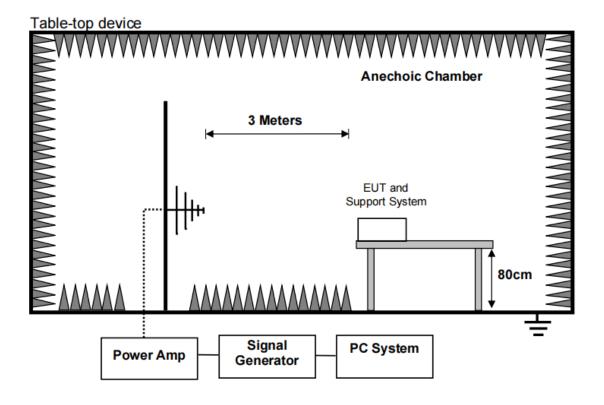


6. Continuous Radio Frequency Disturbances Test

6.1. Test equipment

Equipment	Manufacturer	Model No.	Equipment No.	Cal. Due to
Vector Signal Generator	Agilent	N5182A	Aa-EE040	2025/08/07
Vector Signal Generator	Agilent	E4438C	Aa-EE041	2025/08/07
Power meter	Agilent	E4419B	Aa-EE045	2025/08/07
Power Sensor	Agilent	E9300A	Aa-EE046	2025/08/07
Power Sensor	Agilent	E9304A	Aa-EE047	2025/08/07
RF power Amplifier	OPHIR	5225R	Aa-EE065	2025/08/07
RF power Amplifier	OPHIR	5273R	Aa-EE066	2025/08/07
RF power Amplifier	Micotop	MPA-3000-6000-100	Aa-EE084	2025/08/07
Antenna	SCHWARZBECK	STLP9128E-special	Aa-EE068	/
Antenna	SCHWARZBECK	STLP 9149	Aa-EE069	/
Isotropic Electric Field Probe	narda	EP-601	Aa-EE067	2025/08/10

6.2. Block diagram of test setup



6.3. Test levels and performance criterion

	Swept frequency test				
Frequency (MHz)	80 to 1000				
Field Strength	3V/m rms voltage level of the unmodulated signal				
Modulation	AM modulated to a depth of 80% by a sine wave of □1 kHz	A			
Step Size	1% increments				

Dwell time

nzhen Alpha Product Testing	Co., Ltd.	Report No.: A2504276-C03-R01
		•

1 Sec.

Performance criteria A description for other devices: During and after the test the EUT shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a minimum performance level specified by the manufacturer when the EUT is used as intended.

6.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description
/	/	/	/

6.5. Test procedure

The field sensor is placed on the EUT table (Ground clearance height reference "block diagram of test setup") which is 3 meters away from the transmitting antenna. Through the signal generator, power amplifier and transmitting antenna to produce a uniformity field strength around the EUT table from frequency range specified and records the signal generator 's output level at the same time for whole measured frequency range. Then, put EUT and its simulators on the EUT turn table and keep them 3 meters away from the transmitting antenna which is mounted on an antenna tower and fixes at 1 meter height above the ground. Using the recorded signal generator's output level to measure the EUT from frequency range specified and both horizontal & vertical polarization of antenna must be set and measured. Each of the four sides of EUT must be faced this transmitting antenna and measures individually.

6.6. Test result

Test Site: Chamber 1#(RE/RS)	Test Date: 2025/04/252025/04/25
Condition: 23.2°C,56%RH,101.6kPa	Test Engineer: Lily Wang
Memo: /	

EUT Name: Star shaped MDF wood ornament with led light and hanging cord	EUT Model: CX1527
Sample No.: A2504276-S0003	Test Mode: Lighting
Power supply: DC 4.5V From Battery	Memo:/

Swept test: 80MHz to 1GHz, Steps: 1%, Dwell time 1s, 1kHz 80% AM modulation

owept test. John 12 to 10112, Steps. 176, Dwell time 13, 1KH2 5576 Ain modulation							
Test frequency	Level	EUT position	Antenna polarization	Required	Observation	Result	
80MHz to 1000MHz 3V/m		Front	Н	Α	Α	Pass	
			V	Α	Α	Pass	
		Left	Н	Α	Α	Pass	
	2\//m		V	Α	Α	Pass	
	30/111	Rear	Н	А	А	Pass	
			V	А	А	Pass	
			Н	А	А	Pass	
			V	А	Α	Pass	

Observation description:

A: Normal performance within limits specified by the manufacturer requestor or purchaser.

6.7. Test photo



Appendix I: Photos of the EUT







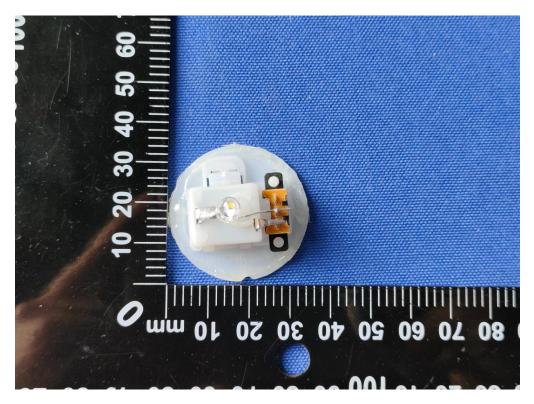


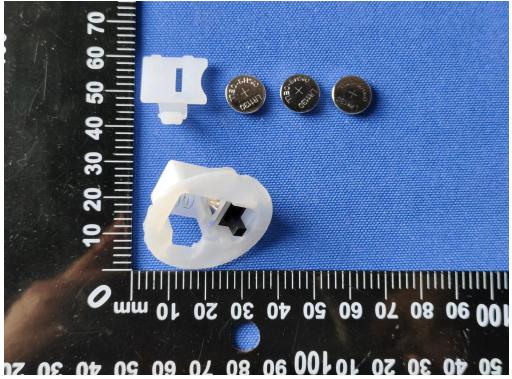














-----End Report-----