

Global United Technology Services Co., Ltd.

Report No.: GTS202210000062F01

TEST REPORT

Applicant: ARTIKA FOR LIVING INC.

Address of Applicant: 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5

shenzhen kanlead electronic tech co.,ltd Manufacturer/ Factory:

Address of 2/F Building A, ShunJie Industrial Zone, DaWangShan,

ShaJin Town, Baoan District Shenzhen, China **Manufacturer/ Factory:**

Equipment Under Test (EUT)

Product Name: Callisto FM 5CCT IR Remote Control

Model No.: KD616B-A061-001, KD612T-A061-003, KD314D-A061-001

Trade Mark: Artika

FCC ID: 2AYFP-KD616B-A061

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: October 14, 2022

Date of Test: October 15-20, 2022

Date of report issued: October 21, 2022

Test Result: Pass *

Authorized Signature:



Robinson Luo **Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

^{*} In the configuration tested, the EUT complied with the standards specified above.



2 Version

Version No.	Date	Description
00	October 21, 2022	Original

Prepared by:

Date: October 21, 2022

Project Engineer

Reviewed by: October 21, 2022

Reviewer



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4 Test Summary

Test Item	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission	FCC Part15.107	ANSI C63.4a	Class B	N/A
Radiated Emissions #	FCC Part15.109	ANSI C63.4a	Class B	PASS

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not applicable.
- 3. # Refer to FCC Part 15.33 (b)(1) conditional testing procedure :

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes			
Radiated Emission	30MHz-200MHz	3.8039dB	(1)			
Radiated Emission	200MHz-1GHz	3.9679dB	(1)			
Radiated Emission	1GHz-18GHz	4.29dB	(1)			
AC Power Line Conducted 0.15MHz ~ 30MHz 3.44dB						
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.						



5 General Information

5.1 General Description of EUT

Product Name:	Callisto FM 5CCT IR Remote Control
Model No.:	KD616B-A061-001, KD612T-A061-003, KD314D-A061-001
Test Model No.:	KD616B-A061-001
Remark:	All above models are identical in the same PCB layout, interior structure and electrical circuits. The only difference is model name for commercial purpose.
Power supply:	DC 3V (Size "CR2032" button battery)

5.2 Test mode and Test voltage

Test mode:	
Operation mode	Keep the EUT in Operation mode.
Test voltage:	
DC 3V	

5.3 Description of Support Units

None.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC —Registration No.: 381383

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

• IC —Registration No.: 9079A

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.7 Test Location

Tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



6 Test Instruments list

Rad	Radiated Emission:					
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	July 02, 2020	July 01, 2025
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	ESU26	GTS203	April 22, 2022	April 21, 2023
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 21, 2022	March 20, 2023
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June 12, 2022	June 11, 2023
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 23, 2022	June 22, 2023
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	April 22, 2022	April 21, 2023
9	Coaxial Cable	GTS	N/A	GTS211	April 22, 2022	April 21, 2023
10	Coaxial cable	GTS	N/A	GTS210	April 22, 2022	April 21, 2023
11	Coaxial Cable	GTS	N/A	GTS212	April 22, 2022	April 21, 2023
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	April 22, 2022	April 21, 2023
13	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 23, 2022	June 22, 2023
14	Band filter	Amindeon	82346	GTS219	June 23, 2022	June 22, 2023
15	Power Meter	Anritsu	ML2495A	GTS540	June 23, 2022	June 22, 2023
16	Power Sensor	Anritsu	MA2411B	GTS541	June 23, 2022	June 22, 2023
17	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 22, 2022	April 21, 2023
18	Splitter	Agilent	11636B	GTS237	June 23, 2022	June 22, 2023
19	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 30, 2021	Nov. 29, 2022
20	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 22, 2022	April 21, 2023
21	Breitband hornantenna	SCHWARZBECK	BBHA 9170	GTS579	Oct. 16, 2022	Oct. 15, 2023
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 16, 2022	Oct. 15, 2023
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 16, 2022	Oct. 15, 2023
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June 23, 2022	June 22, 2023
25	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 22, 2022	April 21, 2023

Gen	eral 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	April 25, 2022	April 24, 2023	
2	Barometer	KUMAO	SF132	GTS647	July 26, 2022	July 25, 2023	



Test Results and Measurement Data

7.1 Radiated Emission

Test Requirement:	FCC Part15 B Sec	tion 15.109					
Test Method:	ANSI C63.4a:2017						
Test Frequency Range:	30MHz to 1GHz						
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Receiver setup:					Value		
	Frequency						
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak		
Limit:							
	Frequency		µV/m @3m)		Value		
	30MHz-88MHz		0.00		lasi-peak		
	88MHz-216MHz 216MHz-960MH		3.50 6.00		ıasi-peak ıasi-peak		
	960MHz-1GHz		4.00		iasi-peak		
					a con pount		
Test setup:	Antenna Tower Antenna Tower Test Receiver Angeler Controller						
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak 						

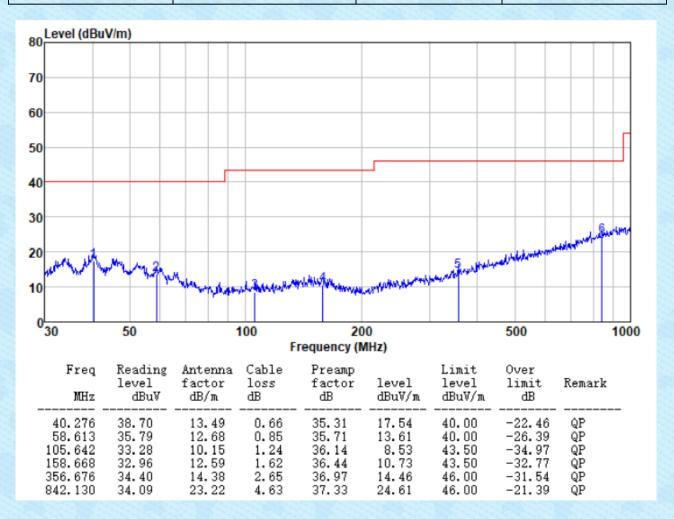
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	values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.			
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1 012mbar			
Test Instruments:	Refer to section 6 for details			
Test mode:	Refer to section 5.2 for details.			
Test results:	Pass			

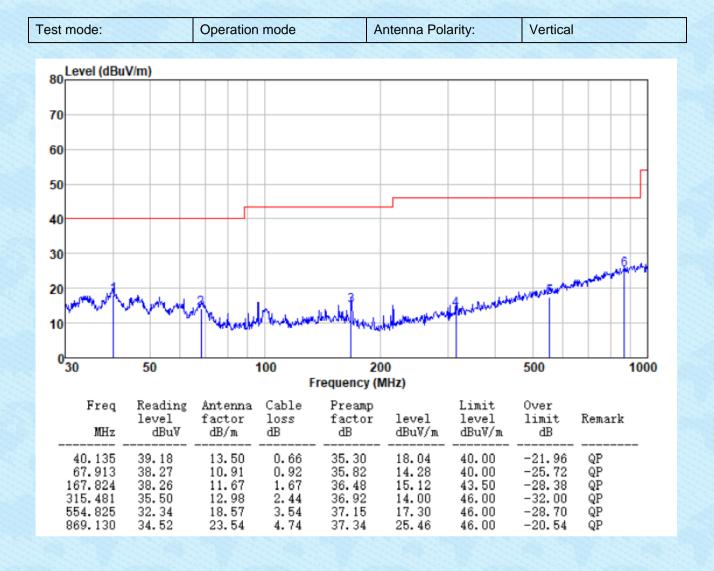
Measurement Data

Test mode: Operation mode Antenna Polarity: Horizontal	
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Note:

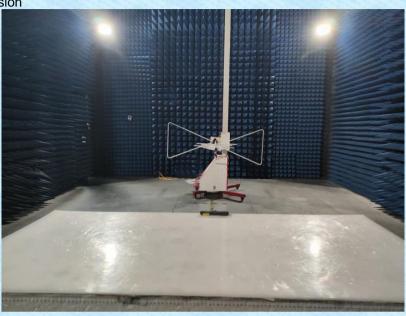
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



8 Test Setup Photo

Radiated Emission





9 EUT Constructional Details

















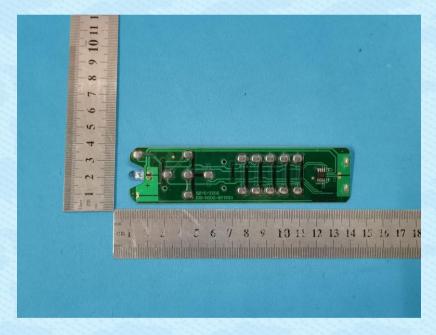
GTS



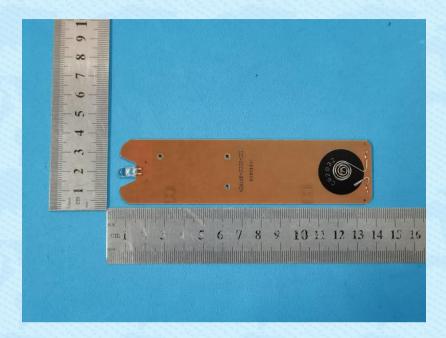












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