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FCC TEST REPORT

For

GOLDSHELL PTE. LTD.

GS WATCH

Test Model: V1

Prepared for : GOLDSHELL PTE. LTD.

Address 1 Jalan Kilang Timor, #06-01 Pacific Tech Center,

Singapore 159303

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

Room 101, 201, Building A and Room 301, Building C,

Address : Juji Industrial Park, Yabianxueziwei, Shajing Street,

Bao'an District, Shenzhen, Guangdong, China

Tel : +(86) 0755-82591330 Fax : +(86) 0755-82591332

Web: www.lcs-cert.com

Mail : webmaster@lcs-cert.com

Date of receipt of test sample : September 6, 2023

Number of tested samples : 1

Serial number : Prototype

Date of Test : September 6, 2023 to September 11, 2023

Date of Report : September 11, 2023





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TEST REPORT

Report No. LCSA09063025E

Date of Issue.....: September 11, 2023

Testing Laboratory Name...... Shenzhen LCS Compliance Testing Laboratory Ltd.

Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen,

Guangdong, China

Testing Location/ Procedure.....: Full application of Harmonised standards ■

Other standard testing method

Applicant's Name..... : GOLDSHELL PTE. LTD.

Address......: 1 Jalan Kilang Timor, #06-01 Pacific Tech Center, Singapore 159303

Test Specification

Standard.....: FCC 47 CFR Part 18

FCC/OST MP-5

Test Report Form No.....: LCSEMC-1.0

TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

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Supervised by:

Test Item Description..... : GS WATCH

Trade Mark.....: N/A Test Model.....: V1

Result..... : Positive

Compiled by:

Jelly Li / File Administrator

Baron Wen / Technique principal

Gavin Liang / Manager

Approved by:







TEST REPORT

Test Report No.: LCSA09063025E September 11, 2023
Date of issue

Test Model..... : V1

EUT.....: : GS WATCH

Applicant : GOLDSHELL PTE. LTD.

Address : 1 Jalan Kilang Timor, #06-01 Pacific Tech Center,

Singapore 159303

Telephone.....:: /

Fax.....: : /

Manufacturer.....: Shenzhen Zhenglink Microelectronics Co.,LTD.

Address...... : Room 508, Huiyi Building, No. 9 Zhongxin Road, Taoyuan

Community, Dalang Street, Longhua District,

Shenzhen

Telephone.....: : /

Fax.....: /

Factory.....: Shenzhen Yihu Technology Co, Ltd

Address...... : Building 401, No. 4, Alianhaoshida, 5022 Wuhe Avenue,

Gangtou community, Bantian Street, Longgang

District, Shenzhen

Telephone.....: : /

Fax.....: : /

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Test Result	VS 105 Testing Lab	ositive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



Shenzhen LCS Compliance Testing Laboratory Ltd.





Revision History

Report Version	eport Version Issue Date Revision Content		Revised By
000	September 11, 2023	Initial Issue	1











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Scan code to check authenticity





1. SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

Description of Test Item	Standard	Limits	Result
Conducted Emissions on AC Power Line	FCC 47 CFR Part 18 FCC/OST MP-5	18.307	Pass
Radiated Emissions (9kHz- 30MHz)	FCC 47 CFR Part 18 FCC/OST MP-5	18.305	Pass











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1.2 Description of Test Modes

No	Title	Description
TM1	Working(DC 5V From USB Host Unit)	Record

















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2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT : GS WATCH

Test Model : V1

Power Supply : Input DC 5V Highest Internal Frequency : <1.705MHz

2.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
OPPO	Adapter	OP52KAUH		

2.3 Description of Test Facility

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16-4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

2.4 Measurement Uncertainty

Test Item	Measurement Uncertainty		
Conducted Emission (150kHz to 30MHz)	± 2.35 dB		
Radiated Emission (9kHz to 30MHz)	± 3.68 dB		

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



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3. MEASURING DEVICES AND TEST EQUIPMENT

Conducted Emissions on AC Power Line									
Equipment Manufacturer Model No Serial No. Cal Date Due Date									
EMI Test Software	Farad	EZ	/	/	/				
Artificial Mains	R&S	ENV216	101288	2023-06-09	2024-06-08				
Pulse Limiter	R&S	ESH3-Z2	102750-NB	2023-08-15	2024-08-14				
EMI Test Receiver	R&S	ESR3	102312	2023-02-25	2024-02-24				

Radiated Emissions (9kHz-30MHz)								
Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date			
EMI Test Software	AUDIX	E3	1	1	/			
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11			
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04			
EMI Test Receiver	R&S	ESR3	102311	2023-08-15	2024-08-14			
Broadband Preamplifier	1	BP-01M18G	P190501	2023-06-09	2024-06-08			
EMI Test Software	Farad	EZ	1	/	1			
Loop antenna	SchwarzZBECK	FMZB 1519B	5	2021-08-29	2024-08-28			











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4. EMISSION TEST RESULTS (EMI)

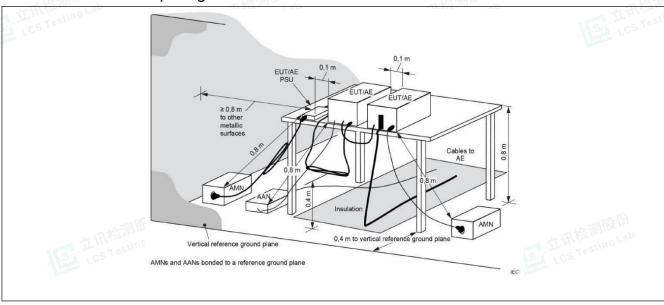
4.1 Conducted Emissions on AC Power Line

Test Requirement:	18.307				
Test Limit:	Frequency of emission (MHz) Conducted		ΒμV)		
		Quasi-peak	Average		
	0.15-0.5	66 to 56 *	56 to 46 *		
	0.5-5	56	46		
	5-30	60	50		
	*Decreases with the logarithm of the frequency.				
Test Method:	MP-5 Clause 7	ing Fan	Till Tilling Lan		
Procedure:	An initial pre-scan was performed with peak detector.Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: Level= Read Level+ Cable Loss+ LISN Factor				

E.U.T. Operation: 4.1.1

Operating Environment:					
Temperature:	23.7 °C			Humidity:	52.9 %
Pre test mode:		TM1			
Final test mode:		TM1			

4.1.2 Test Setup Diagram:





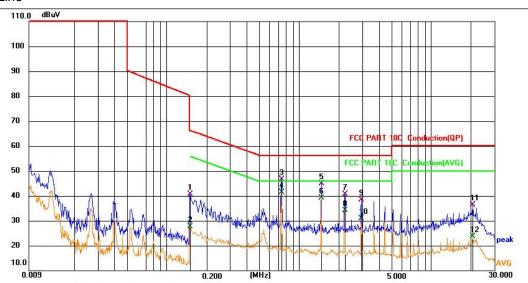
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4.1.3 Test Data:

TM1 / Line: Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1501	21.02	19.63	40.65	65.99	-25.34	QP	
2		0.1501	7.99	19.63	27.62	55.99	-28.37	AVG	
3		0.7351	26.86	19.65	46.51	56.00	-9.49	QP	
4	*	0.7351	21.62	19.65	41.27	46.00	-4.73	AVG	
5		1.4731	25.19	19.66	44.85	56.00	-11.15	QP	
6		1.4731	19.36	19.66	39.02	46.00	-6.98	AVG	
7		2.2111	20.94	19.68	40.62	56.00	-15.38	QP	
8		2.2111	14.44	19.68	34.12	46.00	-11.88	AVG	
9		2.9491	18.58	19.68	38.26	56.00	-17.74	QP	
10		2.9491	11.14	19.68	30.82	46.00	-15.18	AVG	
11		20.6656	16.28	20.17	36.45	60.00	-23.55	QP	
12		20.6656	3.48	20.17	23.65	50.00	-26.35	AVG	

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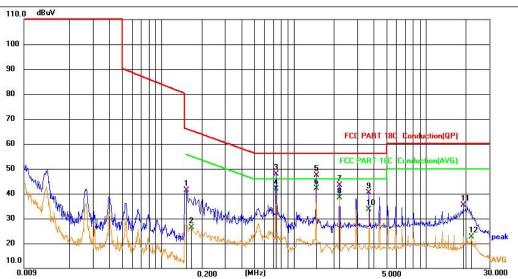
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TM1 / Line: Neutral



				0.000	3 39	- FD		
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1544	21.80	19.63	41.43	65.76	-24.33	QP	
2	0.1680	6.66	19.63	26.29	55.06	-28.77	AVG	
3	0.7347	28.14	19.65	47.79	56.00	-8.21	QP	
4	0.7347	22.26	19.65	41.91	46.00	-4.09	AVG	
5	1.4683	27.76	19.66	47.42	56.00	-8.58	QP	
6 *	1.4683	22.39	19.66	42.05	46.00	-3.95	AVG	
7	2.2065	23.67	19.69	43.36	56.00	-12.64	QP	
8	2.2065	18.76	19.69	38.45	46.00	-7.55	AVG	
9	3.6825	20.56	19.78	40.34	56.00	-15.66	QP	
10	3.6825	13.77	19.78	33.55	46.00	-12.45	AVG	
11	19.1716	15.14	20.19	35.33	60.00	-24.67	QP	
12	22.1189	2.62	20.09	22.71	50.00	-27.29	AVG	

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4.2 Radiated Emissions (9kHz-30MHz)

	11SSIONS (9KHZ-3UMHZ)				
Test Requirement: Test Limit:	18.305 Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distanc e (meters	
	Any ISM frequency	Below 500	25	300	
		500 or more	25 × SQRT(power/500)	300 (1)	
	Any non-ISM frequency	Below 500	15	300	
	o VS I	500 or more	15 × SQRT(power/500)	300 (1)	
	On or below 5,725 MHz	Any	10	1,600	
	Above 5,725 MHz	Any	(2)	(2)	
	Any ISM frequency	Any	25	300	
	Any non-ISM frequency	Any	15	300	
	Below 490 kHz	Below 500	2,400/F(kHz)	300	
		500 or more	2,400/F(kHz) × SQRT(power/500)	300 (3)	
	490 to 1,600 kHz	Any	24,000/F(kHz)	30	
	Above 1,600 kHz	Any	15	30	
	Below 90 kHz	Any	1,500	30 (4)	
	On or above 90 kHz	Any	300	30 (4)	
	(1) Field strength may not equipment operating below strength otherwise permitted (2) Reduced to the greated (3) Field strength may not equipment is not permitted here for over 500 watts. (4) Induction cooking rangues be subject to the field strength may not equipment is not permitted here for over 500 watts.	w 1000 MHz is not ted here for power st extent possible. exceed 10 µV/m at the increase in figes manufactured	permitted the increase over 500 watts. at 1600 meters. Consuled eld strength otherwise prior to February 1, 198	mer permitted	
Test Method:	MP-5 Clause 5/6				
Procedure:	Frequency range: 9KHz-30 An initial pre-scan was perf peak detection mode. Aver- sweep graph. The EUT was The red line show in graphi Level=Read Level + Anteni	ormed in the cham age measurements s measured by loo c is the limit in sta	s were conducted base p antenna with 2 orthoo ndard used in this sect	ed on the peal gonal polaritie	

4.2.1 E.U.T. Operation:

Operating Environment:								
Temperature: 23.6 °C		>		Humidity:	52.2 %			
Pre test mode:		TM1						
Final test mode:		TM1						

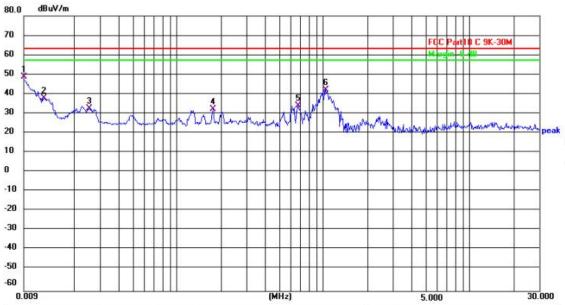






4.2.2 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark	
1	0.0090	57.94	-9.02	48.92	63.52	-14.60	QP	Р		
2	0.0123	47.20	-9.19	38.01	63.52	-25.51	QP	Р		
3	0.0252	42.22	-9.31	32.91	63.52	-30.61	QP	Р		
4	0.1766	42.21	-9.77	32.44	63.52	-31.08	QP	Р		
5	0.6733	43.97	-9.55	34.42	63.52	-29.10	QP	Р		
6	1.0438	51.54	-9.25	42.29	63.52	-21.23	QP	Р		

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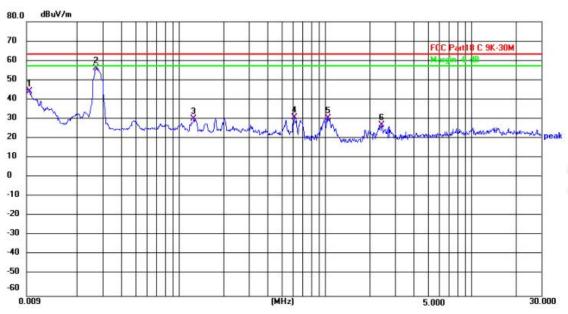


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TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	0.0094	53.46	-9.08	44.38	63.52	-19.14	QP	Р	
2	0.0269	65.85	-9.32	56.53	63.52	-6.99	QP	Р	
3	0.1255	40.31	-9.77	30.54	63.52	-32.98	QP	Р	
4	0.6108	40.87	-9.60	31.27	63.52	-32.25	QP	Р	
5	1.0438	40.04	-9.25	30.79	63.52	-32.73	QP	Р	2
6	2.4266	36.90	-9.41	27.49	63.52	-36.03	QP	Р	3

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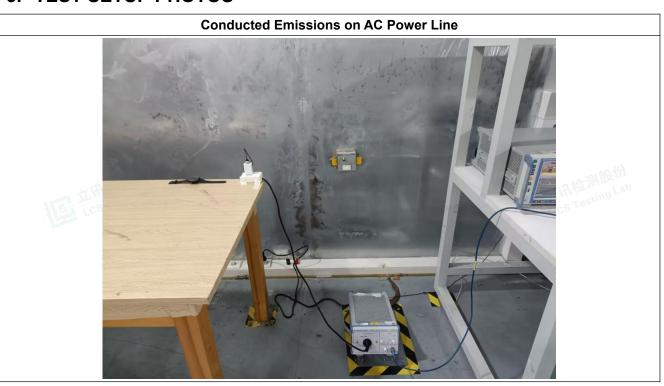
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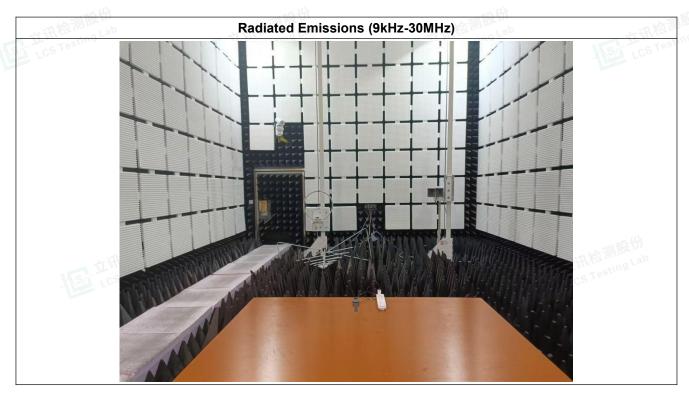


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5. TEST SETUP PHOTOS







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6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)







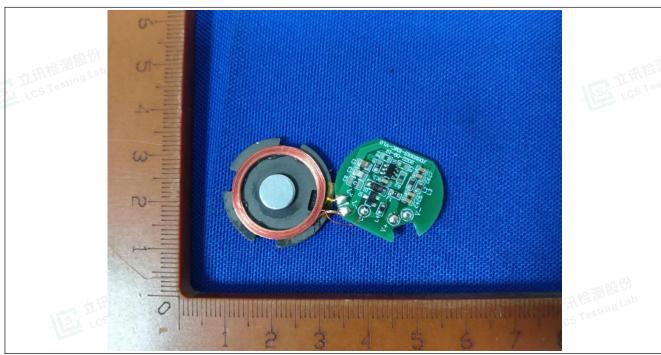
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--- End of Report ---















