

FCC - TEST REPORT

Report Number	:	60.792.18.013.01E01	Date of Issue	: August 27, 2018	
Model	:	HG04641A-US-RX, HG0)4641A-US-RX		
Product Type	:	TEMPERATURE STATION LCD			
Applicant	:	Lidl US Trading, LLC			
Address	:	3500 S. Clark Street, Arlington, Virginia, United States			
Production Facility	:	PUTIAN DIOR INDUSTRIAL CO., LTD.			
Address	:	Linan Industrial Area, Xianyou County, Putian, Fujian, China			
Test Result	:	■Positive	□Negative		
Total pages		12			

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including Appendices



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2 Description of Equipment Under Test

Description of the Equipment Under Test

Product: TEMPERATURE STATION LCD

Model no.: HG04641A-US-RX, HG04641A-US-RX

FCC ID: 2AJ9O-HG4641RX

Rating: 3.0VDC (3 x 1.5VDC size "AA" batteries)

Frequency: 433.92MHz

Antenna gain: 0 dBi

Number of operated channel: 1

Modulation: FSK

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3 Summary of Test Standards

Test Standards

FCC Part 15 Subpart B 10-1-17 Edition

Federal Communications Commission, PART 15 — Radio Frequency Devices,

Subpart B — Unintentional Radiators



4 Details about the Test Laboratory

Site 1

Company name: TÜV SÜD Hong Kong Ltd.

3/F, West Wing, Lakeside 2, 10 Science Park West Avenue, Science Park, Shatin, Hong Kong

Site 2

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Building 12&13 Zhiheng Wisdomland Business Park,

Nantou Checkpoint Road 2, Shenzhen 518052, P.R.China FCC Registration Number: 502708

Emission Tests			
Test Item	Test Site		
FCC Part 15 Subpart B			
FCC Title 47 Part 15.109 Radiated Emission 30MHz-1000MHz	Site 2		
FCC Title 47 Part 15.107 Conduct Emission 150kHz-30MHz	N/A		



4.1 Test Equipment Site List

Radiated emission Test - Site 2

dalated efficient feet etc 2					
DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE	
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2019-7-6	
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2019-6-28	
Horn Antenna	Rohde & Schwarz	HF907	102294	2019-6-28	
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2019-7-6	
Signal Generator	Rohde & Schwarz	SMY01	839369/005	2019-7-6	
Attenuator	Agilent	8491A	MY39264334	2019-7-6	
3m Semi-anechoic chamber	TDK	9X6X6		2020-7-7	
Test software	Rohde & Schwarz	EMC32	Version 9.15.00	N/A	



4.2 Measurement System Uncertainty

Measurement System Uncertainty Emissions

System Measurement Uncertainty			
Items	Extended Uncertainty		
Uncertainty for Radiated Emission in 3m chamber	Horizontal: 4.83dB;		
30MHz-1000MHz	Vertical: 4.91dB;		
Uncertainty for Radiated Emission in 3m chamber	Horizontal: 4.89dB;		
1000MHz-25000MHz	Vertical: 4.88dB;		

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5 Summary of Test Results

Emission Tests				
FCC Part 15 Subpart B				
Test Condition	Pages	Test Result		t
		Pass	Fail	N/A
FCC Title 47 Part 15.109 Radiated Emission 30MHz-1000MHz	10-11	\boxtimes		
FCC Title 47 Part 15.107 Conduct Emission 150kHz-30MHz	NA			\boxtimes



6 General Remarks

Remarks

Client informs that the HG04641B-US-TX have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with TEMPERATURE STATION LCD, HG04641A-US-TX. The difference lies only on different color of the different models. (Client's conformation letter shown at appendix C)

EMC Tests were performed on model: HG04641A-US-TX

SUMMARY:

- All tests according to the regulations cited on page 5 were
 - Performed
 - ☐ Not Performed
- The Equipment Under Test
 - - Fulfills the general approval requirements.
 - ☐ **Does not** fulfill the general approval requirements.

Sample Received Date: August 1, 2018

Testing Start Date: August 7, 2018

Testing End Date: August 15, 2018

- TÜV SÜD HONG KONG LTD. -

Reviewed by:

Hosea CHAN EMC Project Engineer Eric LI

pared by:

EMC Senior Project Engineer

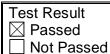


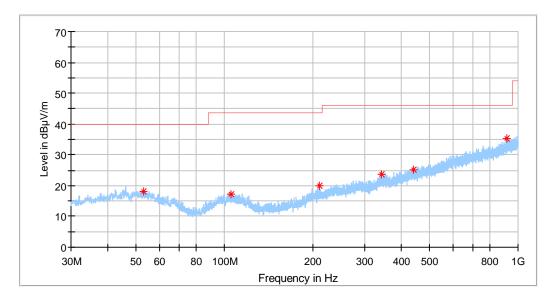
7 Emission Test Results

7.1 Radiated Emission

EUT: HG04641A-US-RX
Op Condition: Receive Mode
Test Specification: Antenna: Horizontal

Comment: 3 VDC





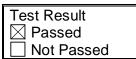
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
52.916250	18.12	40.00	21.88
104.932500	17.30	43.50	26.20
209.995625	20.03	43.50	23.47
344.037500	23.50	46.00	22.50
440.310000	25.18	46.00	20.82
917.792500	35.34	46.00	10.66

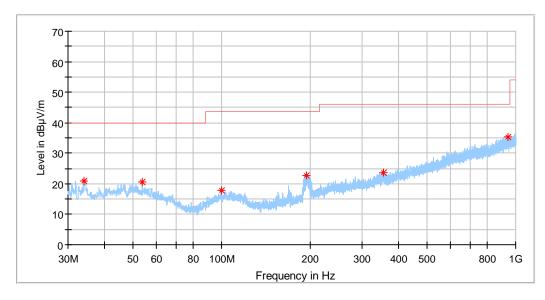


Radiated Emission

EUT: HG04641A-US-RX
Op Condition: Receive Mode
Test Specification: Antenna: Vertical

Comment: 3 VDC





Frequency	MaxPeak	Limit	Margin
(MHz)	(dBµV/m)	(dBµV/m)	(dB)
34.122500	20.91	40.00	19.09
53.704375	20.58	40.00	19.42
99.779375	17.76	43.50	25.74
193.930000	22.80	43.50	20.70
355.677500	23.63	46.00	22.37
940.708750	35.18	46.00	10.82



10 Appendix C - General Product Information

To: TÜV SÜD HKG Ltd.

Attention: Edmond Fung

From: Mr. Maxwell Hand

Fax No:

Date: September 6, 2018

Total Page (Cover Included): 1

Declaration Letter

Subject:

We:

Officially notify TÜV SÜD HKG Ltd. that the <<Additional Model>> have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with <<PRODUCT>>, <<Main Test Model>>. The difference lies only on the different on the non-metallic outlook case color of the different models.

<<Additional Model >>: HG04641B-US-TX , HG04641B-US-RX

<<Main Test Model >>: HG04641A-US-TX , HG04641A-US-RX

<< Product>>: TEMPERATURE STATION LCD

Applicant: LidI US, LCC

9/6/19

(Applicant's authorized signature and company Chop)

Mr. Maxwell Hand

Senior Quality Assurance Manager