

FCC - TEST REPORT

Report Number : **60.792.18.015.01E01** Date of Issue : November 16, 2018

Model : HG04705-US-RX

Product Type : WIRELESS WEATHER STATION

Applicant : Lidl US Trading, LLC

Address : 3500 South Clark Street, Arlington, VA 22202, USA

Production Facility : PUTIAN DIOR INDUSTRIAL CO., LTD.

Address : Linan Industrial Area, Xianyou County, Putian, Fujian, China

Test Result : Positive Negative

Total pages including Appendices : 111

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2 Description of Equipment Under Test

Description of the Equipment Under Test

Product:	WIRELESS WEATHER STATION
Model no.:	HG04705-US-RX
FCC ID:	2AJ90-HG4705RX
Rating:	3.0VDC (3 x 1.5VDC size "AA" batteries)
Frequency:	433.92MHz
Modulation:	FSK



3 Summary of Test Standards

Test Standards
FCC Part 15 Subpart B 10-1-18 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 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 1
FCC Title 47 Part 15.107 Conduct Emission 150kHz-30MHz	N/A

4.1 Test Equipment Site List

Radiated emission Test – Site 1

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

5 Summary of Test Results

Emission Tests				
FCC Part 15 Subpart B				
Test Condition	Pages	Test Result		
		Pass	Fail	N/A
FCC Title 47 Part 15.109 Radiated Emission 30MHz-1000MHz	10-11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCC Title 47 Part 15.107 Conduct Emission 150kHz-30MHz	NA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

6 General Remarks

Remarks

All mode has been tested, only worst case has shown.

SUMMARY:

- All tests according to the regulations cited on page 5 were

- Performed

- **Not** Performed

- The Equipment Under Test

- **Fulfills** the general approval requirements.

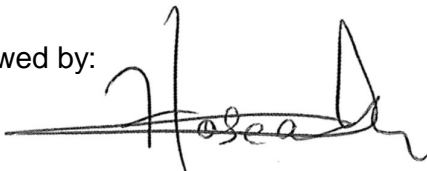
- **Does not** fulfill the general approval requirements.

Sample Received Date: November 1, 2018

Testing Start Date: November 2, 2018

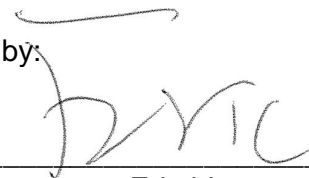
Testing End Date: November 12, 2018

Reviewed by:



Hosea CHAN
EMC Project Engineer

Prepared by:



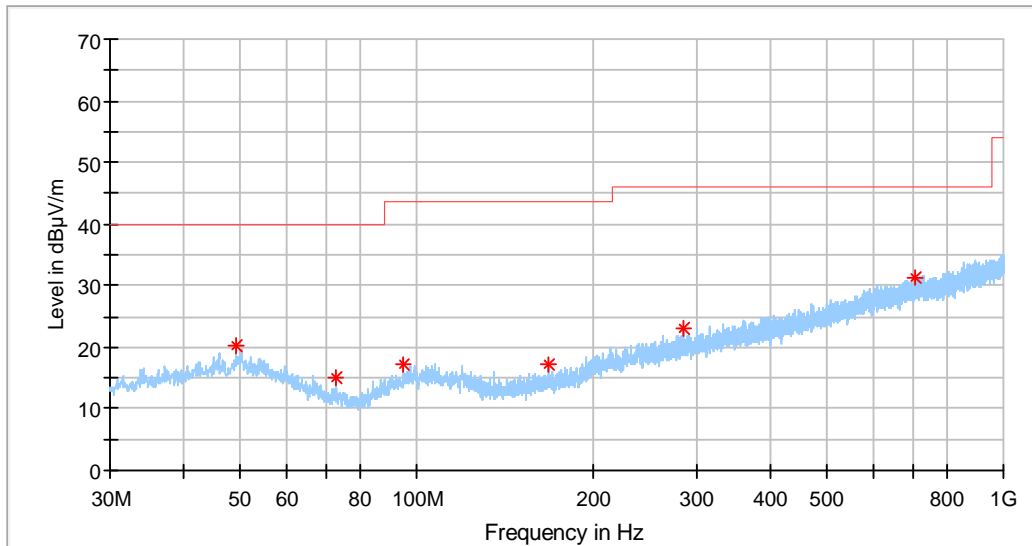
Eric LI
EMC Senior Project Engineer

7 Emission Test Results

7.1 Radiated Emission

EUT: HG04705-US-RX
 Op Condition: Receive Mode
 Test Specification: Antenna: Horizontal
 Comment: 3 VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

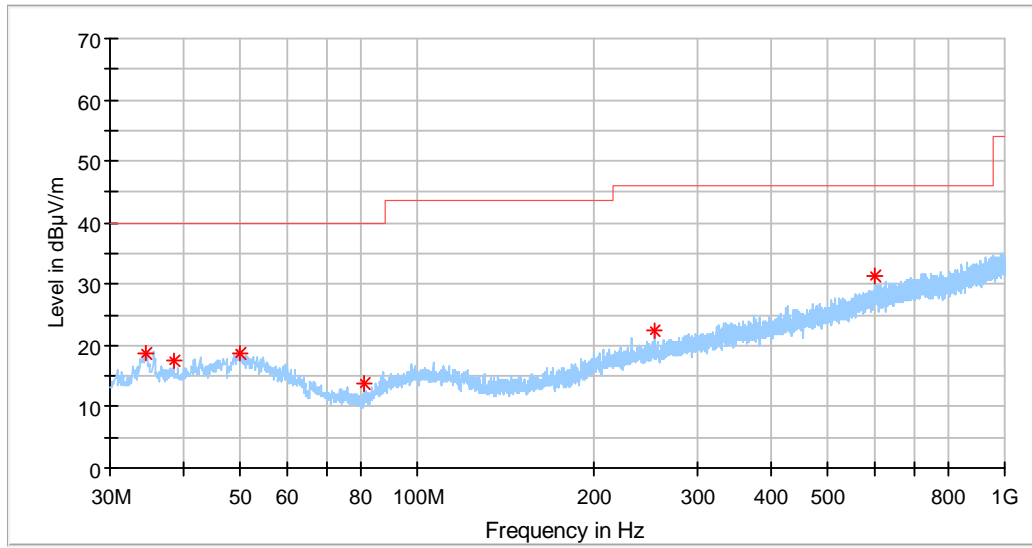


Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
49.278750	20.35	40.00	-19.65
72.922500	14.93	40.00	-25.07
94.686875	17.33	43.50	-26.17
168.103750	17.20	43.50	-26.30
285.291875	23.15	46.00	-22.85
706.878125	31.21	46.00	-14.79

Radiated Emission

EUT: HG04705-US-RX
 Op Condition: Receive Mode
 Test Specification: Antenna: Vertical
 Comment: 3 VDC

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
34.607500	18.59	40.00	-21.41
38.548125	17.50	40.00	-22.50
49.824375	18.77	40.00	-21.23
81.288750	13.82	40.00	-26.18
252.978750	22.39	46.00	-23.61
600.663125	31.31	46.00	-14.69