

### **FCC - TEST REPORT**

Report Number	:	60.792.22.002.02R01	Date of Issue	:	May 18, 2022
Model	:	HG06608A-US, HG0660	8B-US		
Product Type	:	Ear muffs with Bluetoo	th PKB 5 A1		
Applicant	:	Lidl US, LLC			
Address	:	3500 S Clark Street, ARI	LINGTON VA 22202	2, USA	
Production Facility	:	Foshan Shunde JunYe E	Electronic Co., Ltd.		
Address	:	Zhenghe South Road, Le	eliu Shunde, Foshar	n, Guar	ng Dong, China.
Test Result	:	nPositive	○Negative		
Total pages including Appendices	:	71			

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# 2 Description of Equipment Under Test

### **Description of the Equipment Under Test**

Product: Ear muffs with Bluetooth PKB 5 A1

Model no.: HG06608A-US, HG06608B-US

FCC ID: **2AJ9O-HG6608** 

Rating: 5.0 VDC form USB port

or

3.7 VDC, 500 mAh rechargeable Li-ion battery

Frequency: 2402MHz-2480MHz (Tx and Rx)

Antenna gain: 0 dBi

Number of operated channel: 79

Modulation: GFSK,  $\pi/4DQPSK$ 

Auxiliary Equipment and Software Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
Adaptor	Apple	A1357	EMC-126
Smart Phone	Apple	iPhone 11	/

Auxiliary Software Used during Test:

DESCRIPTION	SOFTWARE NAME	VERSION	REMARK
RF Test Mode Software			Provided by applicant

Report Number: 60.792.22.002.02R01



# 3 Summary of Test Standards

#### **Test Standards**

FCC Part 15 Subpart C 10-1-20 Edition

Federal Communications Commission, PART 15 — Radio Frequency Devices, Subpart C —Intentional Radiators

All the test methods were according to ANSI C63.10 (2013).



# 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: 514049 ISED test site number: 10320A

Emission Tests				
Test Item	Test Site			
FCC Part 15 Subpart C				
FCC Title 47 Part 15.205, 15.209 & 15.247(d) Spurious Radiated Emission	Site 1			
FCC Title 47 Part 15.207(a) AC Line Conducted Emission	Site 1			
FCC Title 47 Part 15.247(a)(1) 20dB & 99% Bandwidth	Site 1			
FCC Title 47 Part 15.247(b) Peak Output Power	Site 1			
FCC Title 47 Part 2.1051 & 15.247(d) Spurious Emissions at Antenna Terminals	Site 1			
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	Site 1			
FCC Title 47 Part 15.247(a)(1) Minimum Number of Hopping Frequencies	Site 1			
FCC Title 47 Part 15.247(a)(1) Minimum Hopping Channel Carrier Frequency Separation	Site 1			
FCC Title 47 Part 15.247(a)(1) Average Time of Occupancy	Site 1			
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	Site 1			



# **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	2022-6-4
Signal Analyzer	Rohde & Schwarz	FSV40	101031	2022-6-3
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100398	2022-8-25
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2022-7-23
Horn Antenna	Rohde & Schwarz	HF907	102294	2022-6-23
Wideband Horn Antenna	Q-PAR	QWH-SL-18- 40-K-SG	12827	2022-7-21
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2022-6-6
Pre-amplifier	Rohde & Schwarz	SCU 40A	100432	2022-7-27
Attenuator	Mini-circuits	UNAT-6+	15542	2022-8-23
3m Semi-anechoic chamber	TDK	9X6X6		2023-5-28
Test software	Rohde & Schwarz	EMC32	Version 9.15.00	N/A

#### **Conducted Emission Test - Site 1**

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	101782	2022-6-4
LISN	Rohde & Schwarz	ENV4200	100249	2022-6-5
LISN	Rohde & Schwarz	ENV432	101318	2022-6-5
LISN	Rohde & Schwarz	ENV216	100326	2022-6-5
ISN	Rohde & Schwarz	ENY81	100177	2022-6-5
ISN	Rohde & Schwarz	ENY81-CA6	101664	2022-6-5
High Voltage Probe	Schwarzbeck	TK9420(VT9420)	9420-584	2022-6-5
RF Current Probe	Rohde & Schwarz	EZ-17	100816	2022-6-5
Attenuator	Shanghai Huaxiang	TS2-26-3	080928189	2022-6-3
Test software	Rohde & Schwarz	EMC32	Version9.15.00	N/A
Shielding Room	TDK	CSR #1		2022-11-07

# 20dB & 99% Bandwidth, Peak Output Power, Spurious Emissions at Antenna Terminals, 100kHz Bandwidth of band edges, hopping items – Site 1

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	101030	2022-6-3
RF Switch Module	Rohde & Schwarz	OSP120/OSP- B157	101226/100851	2022-6-3



# **4.2 Measurement System Uncertainty**

## **Measurement System Uncertainty Emissions**

System Measurement Uncertainty					
Items	Extended Uncertainty				
Uncertainty for Radiated Emission in 3m chamber 9kHz-30MHz	4.76dB				
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 5.12dB; Vertical: 5.10dB;				
Uncertainty for Radiated Emission in 3m chamber 1000MHz-25000MHz	Horizontal: 5.01dB; Vertical: 5.00dB;				
Uncertainty for Conducted Emission at AC Power Line 150kHz-30MHz	3.21dB				
Uncertainty for conducted power test	1.16dB				
Uncertainty for frequency test	0.6×10 <sup>-7</sup>				

#### Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2007, clause 4.4.3 and 4.5.1.



# 5 Summary of Test Results

Emission Tests					
FCC Part 15 Subpart C					
Test Condition		Te	Test Result		
		Pass	Fail	N/A	
FCC Title 47 Part 15.205, 15.209 & 15.247(d) Spurious Radiated Emission	12-18	$\boxtimes$			
FCC Title 47 Part 15.207(a) AC Line Conducted Emission	19-20				
FCC Title 47 Part 15.247(a)(2) 20dB & 99% Bandwidth	21-26				
FCC Title 47 Part 15.247(b) Peak Output Power	27-32	$\square$			
FCC Title 47 Part 2.1051 & 15.247(d) Spurious Emissions at Antenna Terminals	33-44	$\boxtimes$			
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	45-48	$\boxtimes$			
FCC Title 47 Part 15.247(a)(1) Min. No. of Hopping Frequencies	49-50				
FCC Title 47 Part 15.247(a)(1) Min. of Hopping Channel Carrier Frequency Separation	51-52	$\boxtimes$			
FCC Title 47 Part 15.247(a)(1) Average Time of Occupancy	53-58				
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	59				



## 6 General Remarks

#### Remarks

Client informs that the **HG06608A-US** has the same technical construction including circuit diagram and electrical construction, with the product **Ear muffs with Bluetooth PKB 5 A1**, model **HG06608B-US**, The difference lies only in color of different models. (Client's conformation letter shown at Appendix B)

All tests were performed on model: **HG06608B-US**. All data packet type modes have been tested, only the worst case is shown on the report.

This submittal(s) (test report) is intended for **FCC ID: 2AJ9O-HG6608**, complies with Section 15.203, 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules for the DSS grant.

The TX and RX range is 2402MHz-2480MHz.

#### SUMMARY:

- All tests according to the regulations cited on page 8 were
  - n Performed
  - Not Performed
- The Equipment Under Test
  - n Fulfills the general approval requirements.
  - Does not fulfill the general approval requirements.

Sample Received Date: March 03, 2022

Testing Start Date: March 03, 2022

Testing End Date: April 02, 2022

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by: Prepared by: Tested by:

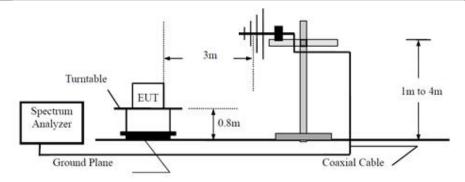
Eric LI EMC Project Manager Hosea CHAN EMC Project Engineer

Louise Liu EMC Test Engineer

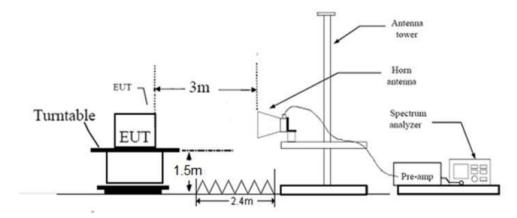


# 7 Test Setups

## 7.1 Radiated test setups Below 1GHz

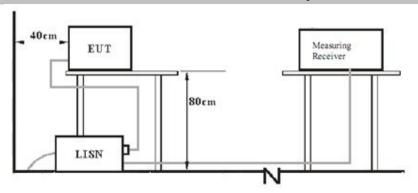


# 7.2 Radiated test setups Above 1GHz

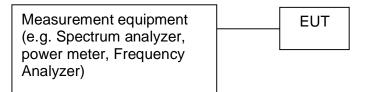




# 7.3 AC Power Line Conducted Emission test setups



## 7.4 Conducted RF test setups





Test Result

Passed

Not Passed

## 8 Emission Test Results

## 8.1 Spurious Radiated Emission

EUT: HG06608A-US

Op Condition: Operated, TX Mode (2DH5)

(Highest channel is the worst case)

Test Specification: FCC15.205, 15.209 & 15.247(d)

Comment: DC 5V

Remark: Below 1GHz

Frequency	Result	Limit	Margin	Detector	Ant. Polarity	Corr.
MHz	dBµV/m	dBµV/m	dB	PK/QP/AV	H/V	(dB)
168.009444	34.28	43.50	9.22	PK	Н	15.85
179.972778	30.93	43.50	12.57	PK	Н	16.60
263.985556	35.73	46.00	10.27	PK	Н	20.07
276.003978	43.59	46.00	2.41	QP	Н	20.22
287.966111	39.35	46.00	6.65	PK	Н	20.57
299.983333	36.93	46.00	9.07	PK	Н	20.85
168.009444	25.86	43.50	17.64	PK	V	15.85
195.708333	21.42	43.50	22.08	PK	V	18.75
263.985556	27.95	46.00	18.05	PK	V	20.07
275.948889	33.81	46.00	12.19	PK	V	20.22
287.966111	29.51	46.00	16.49	PK	V	20.57
612.000000	34.10	46.00	11.90	PK	V	27.69

#### Remark:

- As the measured peak value not exceeded the Quasi-peak limit, Quasi-peak value no need to be measured.
- 2. Result Level=Reading Level + Correction Factor

Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain

Below 1GHz: Corrector factor = Antenna Factor + Cable Loss

(The Reading Level is recorded by software which is not shown in the sheet)



EUT: HG06608B-US

Op Condition: Operated, TX Mode (2402MHz, 2DH5)

Test Specification: FCC15.205, 15.209 & 15.247(d)

Comment: DC 5V

Remark: 1GHz to 25GHz

Test Result	
□ Passed	
☐ Not Passed	

Frequency	Result	Limit	Margin	Detector	Ant. Polarity	Corr.
MHz	dBµV/m	dBµV/m	dB	PK/QP/AV	H/V	(dB)
1872.000000	42.45	74.00	31.55	PK	Н	-4.51
2384.000000	45.76	74.00	28.24	PK	Н	-2.25
3964.500000	47.47	74.00	26.53	PK	Н	1.86
4596.000000	49.72	74.00	24.28	PK	Н	3.90
7643.000000	42.25	74.00	31.75	PK	Н	9.52
9602.000000	46.02	74.00	27.98	PK	Н	12.19
1360.000000	38.19	74.00	35.81	PK	V	-8.20
1999.500000	43.84	74.00	30.16	PK	V	-3.78
2577.000000	44.84	74.00	29.16	PK	V	-1.54
3911.000000	46.82	74.00	27.18	PK	V	1.55
7194.000000	41.75	74.00	32.25	PK	V	8.38
9951.500000	45.23	74.00	28.77	PK	V	12.27

- 1. According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in data table if the peak value complies with average limit.
- Consequence Level=Reading Level + Correction Factor
   Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain
   Below 1GHz: Corrector factor = Antenna Factor + Cable Loss
   (The Reading Level is recorded by software which is not shown in the sheet)



EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, 2DH5)

Test Specification: FCC15.205, 15.209 & 15.247(d)

Comment: DC 5V

Remark: 1GHz to 25GHz

Test Result	
□ Passed	
☐ Not Passed	

Frequency	Result	Limit	Margin	Detector	Ant. Polarity	Corr.
MHz	dBµV/m	dBµV/m	dB	PK/QP/AV	H/V	(dB)
1880.500000	42.08	74.00	31.92	PK	Н	-4.42
3111.500000	46.11	74.00	27.89	PK	Н	0.16
4131.000000	47.26	74.00	26.74	PK	Н	2.43
4821.000000	48.05	74.00	25.95	PK	Н	4.39
7917.500000	42.58	74.00	31.42	PK	Н	9.45
9758.000000	50.35	74.00	23.65	PK	Н	12.53
1672.500000	40.18	74.00	33.82	PK	Н	-7.01
2354.000000	44.31	74.00	29.69	PK	V	-2.38
3164.000000	45.91	74.00	28.09	PK	V	0.32
5063.000000	50.36	74.00	23.64	PK	V	4.72
9758.000000	46.45	74.00	27.55	PK	V	12.53
17092.500000	51.34	74.00	22.66	PK	V	22.13

- 1. According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in data table if the peak value complies with average limit.
- Consequence Level=Reading Level + Correction Factor
   Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain
   Below 1GHz: Corrector factor = Antenna Factor + Cable Loss
   (The Reading Level is recorded by software which is not shown in the sheet)



EUT: HG06608B-US

Op Condition: Operated, TX Mode (2480MHz, 2DH5)

Test Specification: FCC15.205, 15.209 & 15.247(d)

Comment: DC 5V

Remark: 1GHz to 25GHz

Test Result	
□ Passed	
☐ Not Passed	

Frequency	Result	Limit	Margin	Detector	Ant. Polarity	Corr.
MHz	dBµV/m	dBµV/m	dB	PK/QP/AV	H/V	(dB)
1388.500000	36.56	74.00	37.44	PK	Н	-8.37
2505.500000	43.24	74.00	30.76	PK	Н	-1.80
3684.000000	45.30	74.00	28.70	PK	Н	0.92
4960.500000	49.88	74.00	24.12	PK	Н	4.54
6604.500000	43.14	74.00	30.86	PK	Н	9.27
9914.000000	51.02	74.00	22.98	PK	Н	12.21
1340.500000	37.51	74.00	36.49	PK	Н	-8.02
1669.500000	42.70	74.00	31.30	PK	V	-7.04
2496.500000	44.09	74.00	29.91	PK	V	-1.82
3647.500000	46.57	74.00	27.43	PK	V	0.77
5748.500000	50.85	74.00	23.15	PK	V	6.36
9914.000000	49.36	74.00	24.64	PK	V	12.21

- 1. According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in data table if the peak value complies with average limit.
- Consequence Level=Reading Level + Correction Factor
   Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain
   Below 1GHz: Corrector factor = Antenna Factor + Cable Loss
   (The Reading Level is recorded by software which is not shown in the sheet)



EUT: HG06608B-US

Op Condition: Operated, TX Mode (2402MHz, DH5)

Test Specification: FCC15.205, 15.209 & 15.247(d)

Comment: DC 5V

Remark: 1GHz to 25GHz

Test Result	
□ Passed	
☐ Not Passed	

Frequency	Result	Limit	Margin	Detector	Ant. Polarity	Corr.
MHz	dBµV/m	dBµV/m	dB	PK/QP/AV	H/V	(dB)
1462.000000	38.30	74.00	35.70	PK	Н	-8.50
2381.500000	45.95	74.00	28.05	PK	Н	-2.26
3161.500000	46.14	74.00	27.86	PK	Н	0.30
6655.000000	42.62	74.00	31.38	PK	Н	9.13
9602.500000	46.22	74.00	27.78	PK	Н	12.19
12877.500000	48.71	74.00	25.29	PK	Н	15.71
1891.000000	42.59	74.00	31.41	PK	V	-4.30
2320.000000	43.63	74.00	30.37	PK	V	-2.34
2783.500000	45.07	74.00	28.93	PK	V	-1.22
4169.000000	47.89	74.00	26.11	PK	V	2.48
7965.000000	42.44	74.00	31.56	PK	V	9.89
10222.500000	44.72	74.00	29.28	PK	V	12.79

- 3. According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in data table if the peak value complies with average limit.
- 4. Consequence Level=Reading Level + Correction Factor Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain Below 1GHz: Corrector factor = Antenna Factor + Cable Loss (The Reading Level is recorded by software which is not shown in the sheet)



EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, DH5)

Test Specification: FCC15.205, 15.209 & 15.247(d)

Comment: DC 5V

Remark: 1GHz to 25GHz

Test Result	
□ Passed	
☐ Not Passed	

Frequency	Result	Limit	Margin	Detector	Ant. Polarity	Corr.
MHz	dBµV/m	dBµV/m	dB	PK/QP/AV	H/V	(dB)
1779.000000	40.23	74.00	33.77	PK	Н	-5.56
2387.500000	43.51	74.00	30.49	PK	Н	-2.24
3183.000000	46.57	74.00	27.43	PK	Н	0.29
5008.000000	48.91	74.00	25.09	PK	Н	4.76
7174.500000	42.23	74.00	31.77	PK	Н	8.20
9758.000000	48.49	74.00	25.51	PK	Н	12.53
1901.500000	41.39	74.00	32.61	PK	Н	-4.18
2440.000000	48.24	74.00	25.76	PK	V	-2.15
3544.500000	44.53	74.00	29.47	PK	V	0.54
4921.500000	49.38	74.00	24.62	PK	V	4.55
6946.500000	41.80	74.00	32.20	PK	V	8.86
8821.500000	44.31	74.00	29.69	PK	V	11.76

- 3. According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in data table if the peak value complies with average limit.
- 4. Consequence Level=Reading Level + Correction Factor Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain Below 1GHz: Corrector factor = Antenna Factor + Cable Loss (The Reading Level is recorded by software which is not shown in the sheet)



EUT: HG06608B-US

Op Condition: Operated, TX Mode (2480MHz, DH5)

Test Specification: FCC15.205, 15.209 & 15.247(d)

Comment: DC 5V

Remark: 1GHz to 25GHz

Test Result	
⊠ Passed	
☐ Not Passed	

Frequency	Result	Limit	Margin	Detector	Ant. Polarity	Corr.
MHz	dBμV/m	dBµV/m	dB	PK/QP/AV	H/V	(dB)
1337.000000	38.67	74.00	35.33	PK	Н	-7.99
1875.000000	41.43	74.00	32.57	PK	Н	-4.48
2575.500000	46.21	74.00	27.79	PK	Н	-1.54
4720.500000	50.39	74.00	23.61	PK	Н	4.33
6593.000000	44.08	74.00	29.92	PK	Н	9.16
9914.000000	49.39	74.00	24.61	PK	Н	12.21
1750.000000	44.90	74.00	29.10	PK	Н	-6.04
2501.500000	44.31	74.00	29.69	PK	V	-1.81
3819.000000	45.32	74.00	28.68	PK	V	1.25
7837.500000	42.91	74.00	31.09	PK	V	9.27
9914.000000	49.80	74.00	24.20	PK	V	12.21
12835.000000	48.01	74.00	25.99	PK	V	15.49

- 3. According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in data table if the peak value complies with average limit.
- 4. Consequence Level=Reading Level + Correction Factor Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain Below 1GHz: Corrector factor = Antenna Factor + Cable Loss (The Reading Level is recorded by software which is not shown in the sheet)



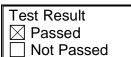
## 8.2 Conducted Emission at AC Power line

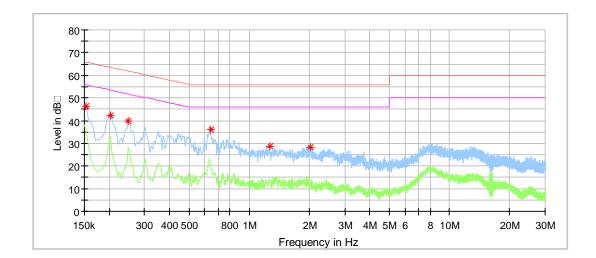
EUT: HG06608B-US

Op Condition: BT Link

Test Specification: AC Mains, L Line

Comment: 120V AC, 60Hz (supporting adapter input)





	Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)
Ī	0.154000	46.54		65.78	19.24
ſ	0.202000	42.43		63.53	21.10
ſ	0.250000	39.76		61.76	22.00
ſ	0.642000	36.10		56.00	19.90
Ī	1.266000	28.83		56.00	27.17
Ī	2.018000	28.43		56.00	27.57



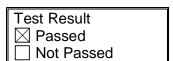
#### **Conducted Emission Test**

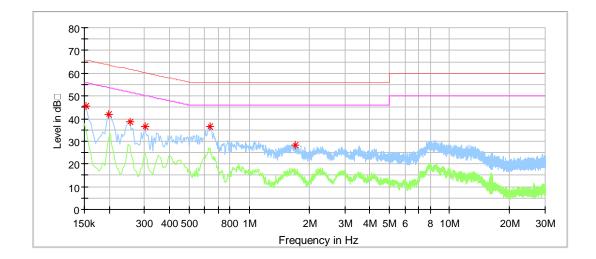
EUT: HG06608B-US

Op Condition: BT Link

Test Specification: AC Mains, N Line

Comment: 120V AC, 60Hz (supporting adapter input)





Frequency	MaxPeak	Average	Limit	Margin
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)
0.154000	45.65		65.78	20.14
0.198000	41.96		63.69	21.73
0.254000	38.47		61.63	23.16
0.302000	36.49		60.19	23.70
0.634000	36.53		56.00	19.47
1.702000	28.25		56.00	27.75

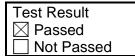


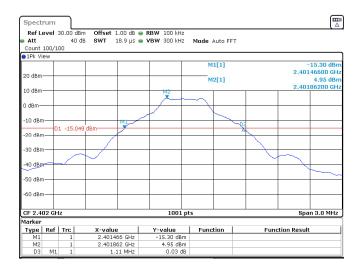
## 8.3 20dB & 99% Bandwidth

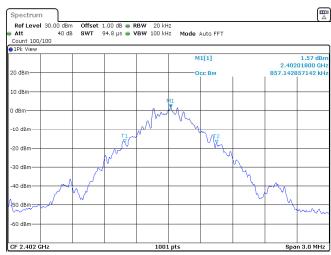
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2402MHz, DH5)

Test Specification: FCC15.247(a)(1), 20dB Bandwidth & 99% Bandwidth







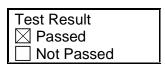
Bandwidth	Measured Value	Limit
20dB bandwidth	1.110 MHz	NA
99% OCB	0.857 MHz	NA

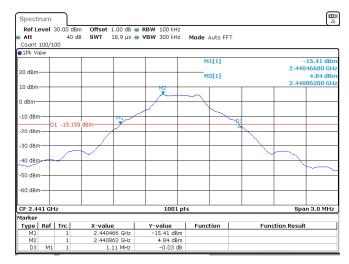


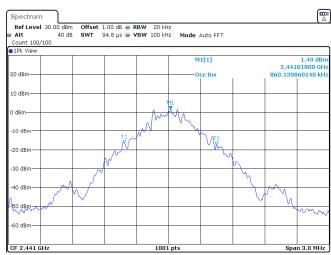
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, DH5)

Test Specification: FCC15.247(a)(1), 20dB Bandwidth & 99% Bandwidth







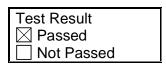
Bandwidth	Measured Value	Limit
20dB bandwidth	1.110 MHz	NA
99% OCB	0.860 MHz	NA

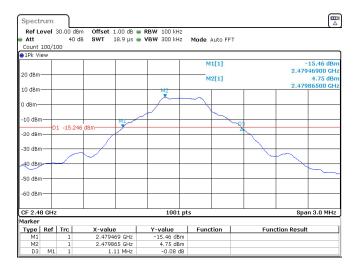


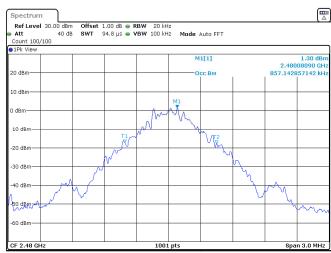
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2480MHz, DH5)

Test Specification: FCC15.247(a)(1), 20dB Bandwidth & 99% Bandwidth







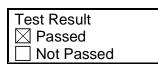
Bandwidth	Measured Value	Limit
20dB bandwidth	1.110 MHz	NA
99% OCB	0.857 MHz	NA

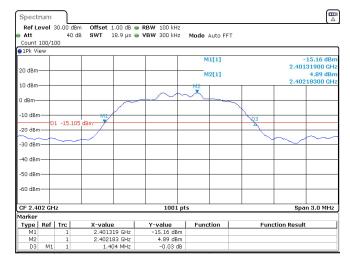


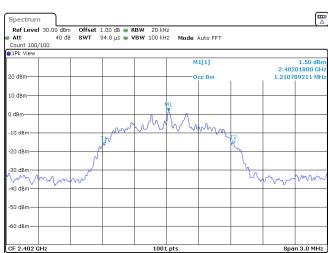
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2402MHz, 2DH5)

Test Specification: FCC15.247(a)(1), 20dB Bandwidth & 99% Bandwidth







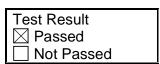
Bandwidth	Measured Value	Limit
20dB bandwidth	1.404 MHz	NA
99% OCB	1.211 MHz	NA

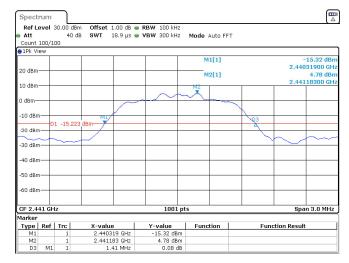


EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, 2DH5)

Test Specification: FCC15.247(a)(1), 20dB Bandwidth & 99% Bandwidth







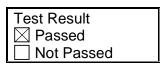
Bandwidth	Measured Value	Limit
20dB bandwidth	1.410 MHz	NA
99% OCB	1.214 MHz	NA

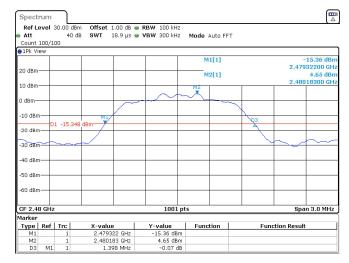


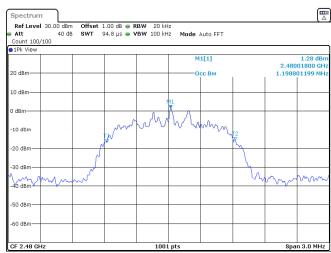
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2480MHz, 2DH5)

Test Specification: FCC15.247(a)(1), 20dB Bandwidth & 99% Bandwidth







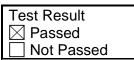
Bandwidth	Measured Value	Limit
20dB bandwidth	1.398 MHz	NA
99% OCB	1.199 MHz	NA

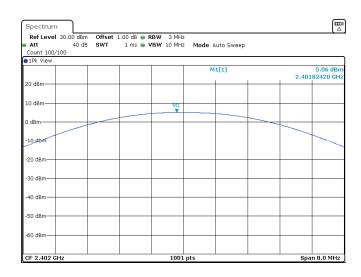


EUT: HG06608B-US

Op Condition: Operated, TX Mode (2402MHz, DH5)

Test Specification: FCC15.247(b)





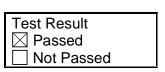
<b>Conducted Output Power</b>	Limit
5.06 dBm	< 30dBm

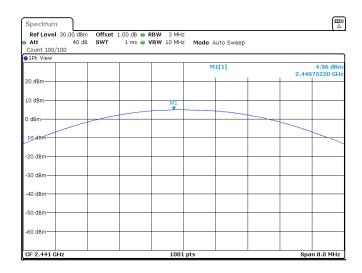


EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, DH5)

Test Specification: FCC15.247(b)





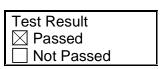
<b>Conducted Output Power</b>	Limit
4.96 dBm	< 30dBm

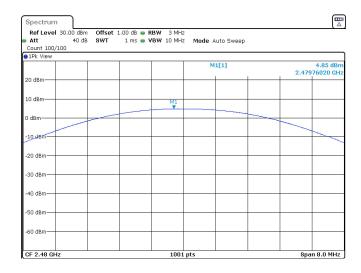


EUT: HG06608B-US

Op Condition: Operated, TX Mode (2480MHz, DH5)

Test Specification: FCC15.247(b)





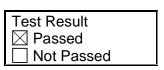
<b>Conducted Output Power</b>	Limit
4.85 dBm	< 30dBm

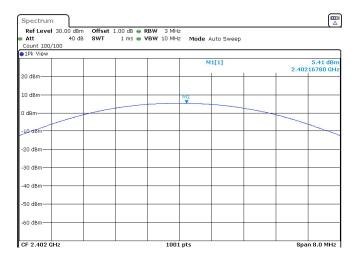


EUT: HG06608B-US

Op Condition: Operated, TX Mode (2402MHz, 2DH5)

Test Specification: FCC15.247(b)





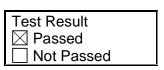
<b>Conducted Output Power</b>	Limit
5.41 dBm	< 30dBm

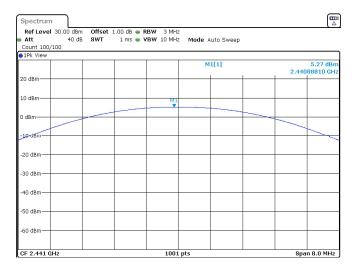


EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, 2DH5)

Test Specification: FCC15.247(b)





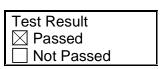
<b>Conducted Output Power</b>	Limit
5.27 dBm	< 30dBm

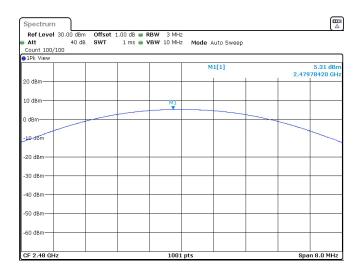


EUT: HG06608B-US

Op Condition: Operated, TX Mode (2480MHz, 2DH5)

Test Specification: FCC15.247(b)





<b>Conducted Output Power</b>	Limit
5.31 dBm	< 30dBm



# 8.5 Spurious Emissions at Antenna Terminals

EUT: HG06608B-US

Op Condition: Operated, TX Mode (2402MHz, DH5)

Test Specification: FCC2.1051 & 15.247(d)

Test Result	
□ Passed	
☐ Not Passed	





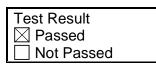


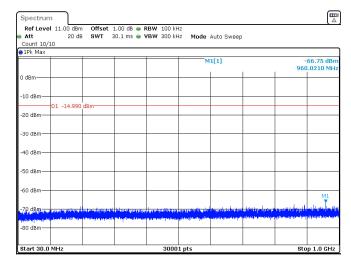
## **Spurious Emissions at Antenna Terminals**

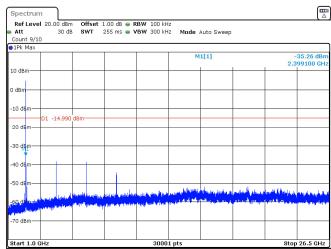
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2402MHz, DH5)

Test Specification: FCC2.1051 & 15.247(d)









## **Spurious Emissions at Antenna Terminals**

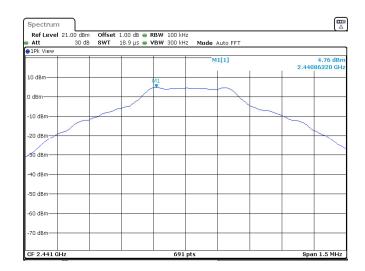
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, DH5)

Test Specification: FCC2.1051 & 15.247(d)

Test Result	
□ Passed	
☐ Not Passed	





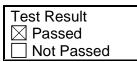


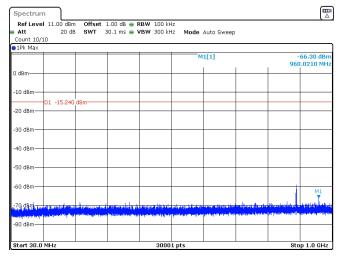
## **Spurious Emissions at Antenna Terminals**

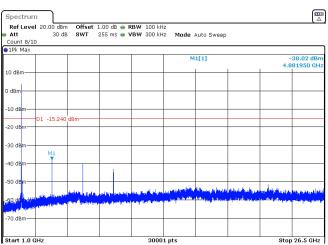
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, DH5)

Test Specification: FCC2.1051 & 15.247(d)









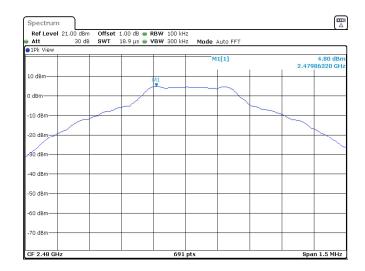
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2480MHz, DH5)

Test Specification: FCC2.1051 & 15.247(d)

Test Result	
□ Passed	
☐ Not Passed	

Channel	FreqRange MHz	RefLevel dBm	Result dBm	Limit dBm	Verdict
2480	2480	4.80	4.80	4.80	PASS
2480	30~1000	4.80	-67.56	-67.56	PASS
2480	1000~26500	4.80	-37.19	-37.19	PASS

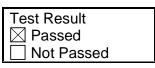


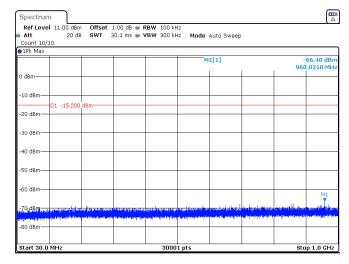


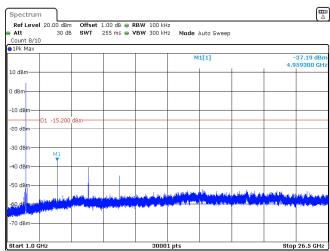
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2480MHz, DH5)

Test Specification: FCC2.1051 & 15.247(d)









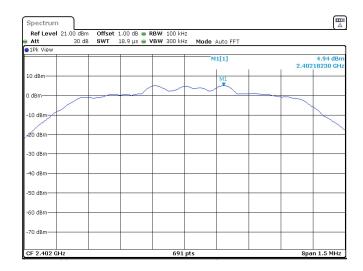
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2402MHz, 2DH5)

Test Specification: FCC2.1051 & 15.247(d)

Test Result	
□ Passed	
☐ Not Passed	

Channel	FreqRange MHz	RefLevel dBm	Result dBm	Limit dBm	Verdict
2402	2402	4.94	4.94		PASS
2402	30~1000	4.94	-67.33	<=-15.06	PASS
2402	1000~26500	4.94	-29.8	<=-15.06	PASS

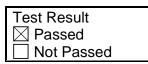


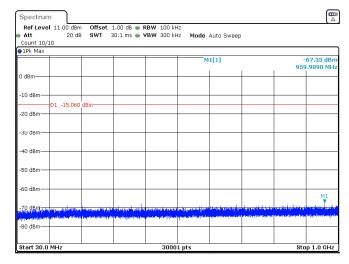


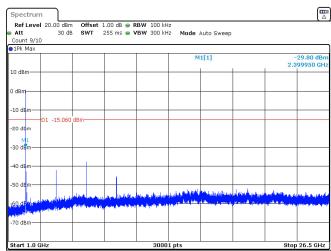
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2402MHz, DH5)

Test Specification: FCC2.1051 & 15.247(d)









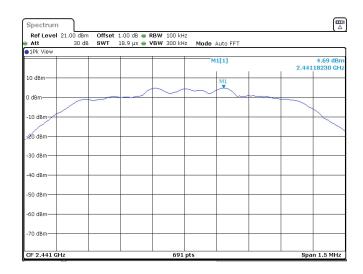
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, 2DH5)

Test Specification: FCC2.1051 & 15.247(d)

Test Result	
□ Passed	
☐ Not Passed	

Channel	FreqRange MHz	RefLevel dBm	Result dBm	Limit dBm	Verdict
2441	2441	4.69	4.69		PASS
2441	30~1000	4.69	-66.36	<=-15.31	PASS
2441	1000~26500	4.69	-42.2	<=-15.31	PASS

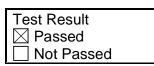


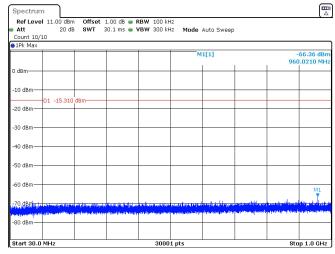


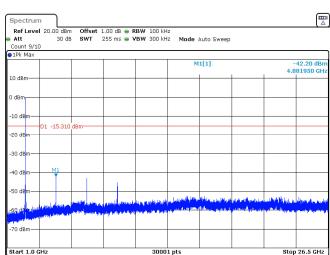
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, 2DH5)

Test Specification: FCC2.1051 & 15.247(d)









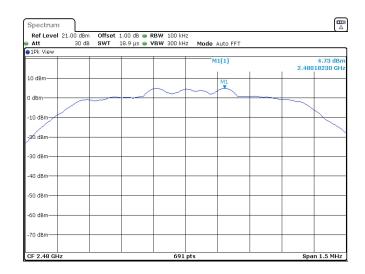
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2480MHz, 2DH5)

Test Specification: FCC2.1051 & 15.247(d)

Test Result	
□ Passed	
☐ Not Passed	

Channel	FreqRange MHz	RefLevel dBm	Result dBm	Limit dBm	Verdict
2480	2480	4.73	4.73		PASS
2480	30~1000	4.73	-66.77	<=-15.27	PASS
2480	1000~26500	4.73	-41.52	<=-15.27	PASS

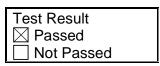


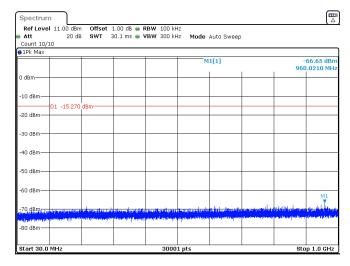


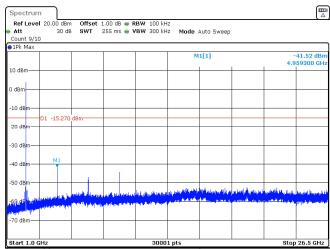
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2480MHz, 2DH5)

Test Specification: FCC2.1051 & 15.247(d)







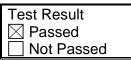


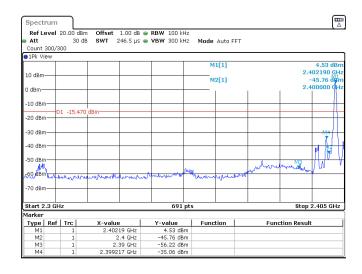
# 8.6 100kHz Bandwidth of band edges

EUT: HG06608B-US

Op Condition: Operated, TX Mode (2402MHz, DH5)

Test Specification: FCC15.247(d), Conducted





Band edges	Limit
-35.06 dB	> 20dB

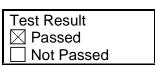


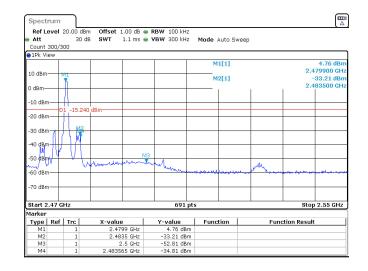
# 100kHz Bandwidth of band edges

EUT: HG06608B-US

Op Condition: Operated, TX Mode (2480MHz, DH5)

Test Specification: FCC15.247(d), Conducted





Band edges	Limit
34.81 dB	> 20dB

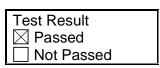


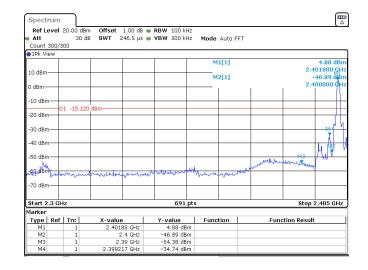
# 100kHz Bandwidth of band edges

EUT: HG06608B-US

Op Condition: Operated, TX Mode (2402MHz, 2DH5)

Test Specification: FCC15.247(d), Conducted





Band edges	Limit
34.74 dB	> 20dB

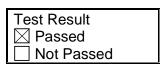


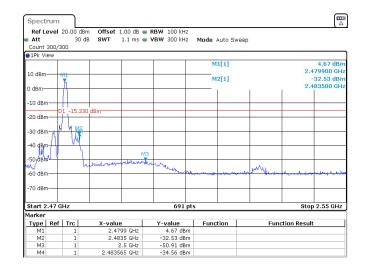
# 100kHz Bandwidth of band edges

EUT: HG06608B-US

Op Condition: Operated, TX Mode (2480MHz, 2DH5)

Test Specification: FCC15.247(d), Conducted





Band edges	Limit
34.56 dB	> 20dB

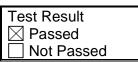


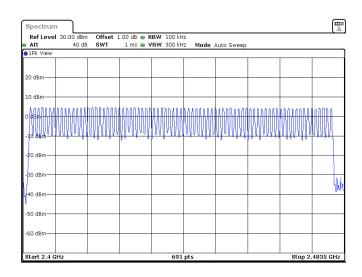
# 8.7 Minimum. Number of Hopping Frequencies

EUT: HG06608B-US

Op Condition: Operated, TX Mode (2402-2480MHz, DH5)

Test Specification: FCC15.247(a)(1)





Hopping Channels	Limit
79	≥ 15

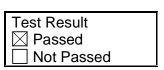


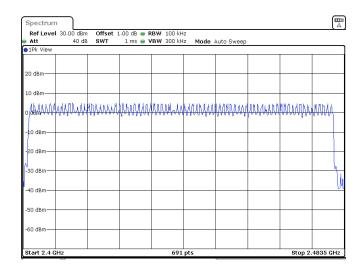
# **Minimum. Number of Hopping Frequencies**

EUT: HG06608B-US

Op Condition: Operated, TX Mode (2402-2480MHz, 2DH5)

Test Specification: FCC15.247(a)(1)





Hopping Channels	Limit
79	≥ 15



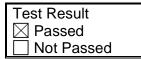
# 8.8 Minimum Hopping Channel Carrier Frequency Separation

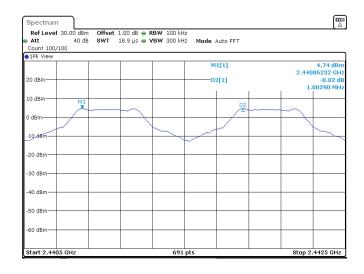
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, DH5)

Test Specification: FCC15.247(a)(1)

Comment: DC 5V





Chanel Separation	Limit
1003 kHz	740 kHz

Limit: 2/3 of 20dB bandwidth of hopping channel



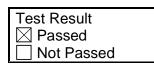
# **Minimum Hopping Channel Carrier Frequency Separation**

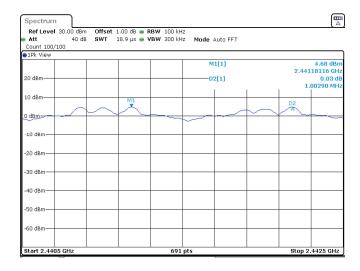
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, 2DH5)

Test Specification: FCC15.247(a)(1)

Comment: DC 5V





Chanel Separation	Limit
1003 kHz	940 kHz

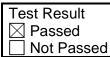
Limit: 2/3 of 20dB bandwidth of hopping channel

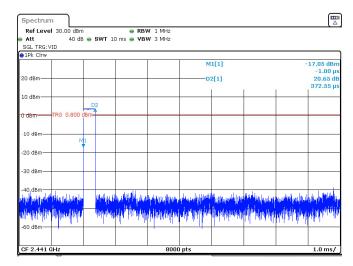


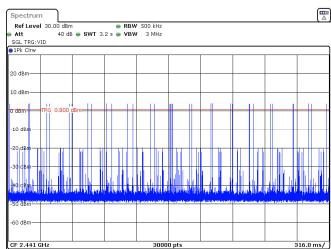
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, DH1)

Test Specification: FCC15.247(a)(1)







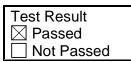
TestMode	BurstWidth	TotalHops	Result	Limit	Verdict
DH1	0.372ms	330	0.123 s	<=0.4 s	PASS

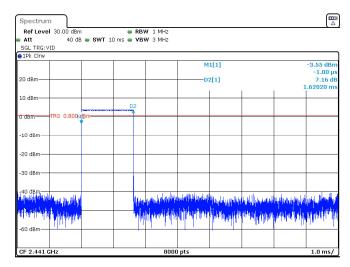


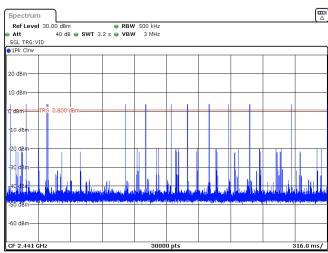
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, DH3)

Test Specification: FCC15.247(a)(1)







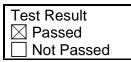
TestMode	BurstWidth	TotalHops	Result	Limit	Verdict
DH3	1.62ms	130	0.211 s	<=0.4 s	PASS

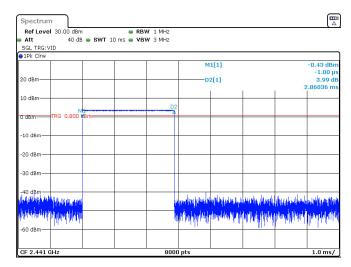


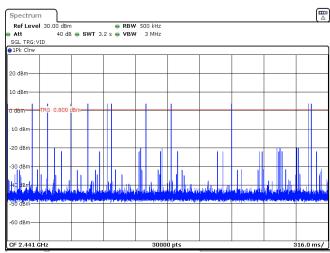
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, DH5)

Test Specification: FCC15.247(a)(1)







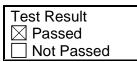
TestMode	BurstWidth	TotalHops	Result	Limit	Verdict
DH5	2.86ms	120	0.343 s	<=0.4 s	PASS

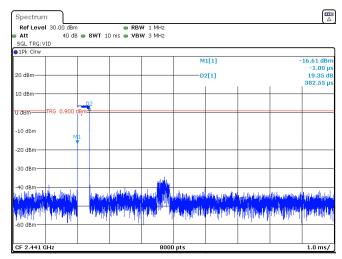


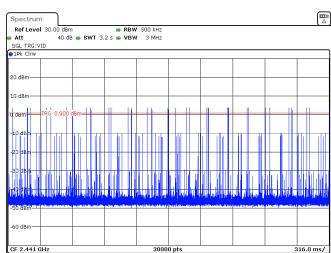
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, 2DH1)

Test Specification: FCC15.247(a)(1)







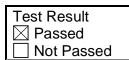
TestMode	BurstWidth	TotalHops	Result	Limit	Verdict
2DH1	0.38ms	320	0.122 s	<=0.4 s	PASS

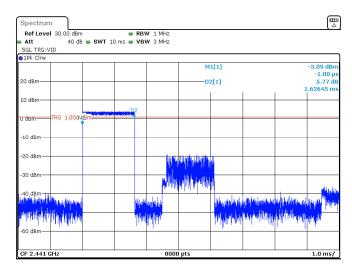


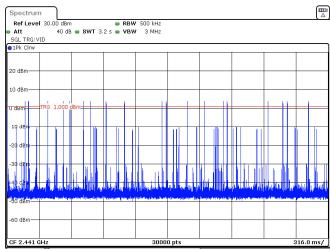
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, 2DH3)

Test Specification: FCC15.247(a)(1)







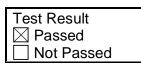
TestMode	BurstWidth	TotalHops	Result	Limit	Verdict
2DH3	1.63ms	200	0.325 s	<=0.4 s	PASS

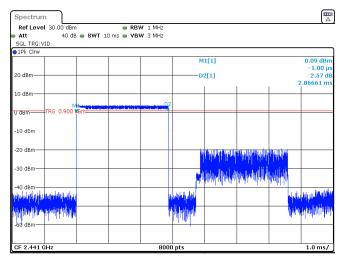


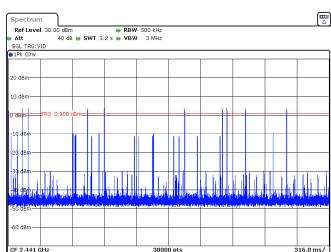
EUT: HG06608B-US

Op Condition: Operated, TX Mode (2441MHz, 2DH5)

Test Specification: FCC15.247(a)(1)







TestMode	BurstWidth	TotalHops	Result	Limit	Verdict
2DH5	2.87ms	100	0.287 s	<=0.4 s	PASS

Report Number: 60.792.22.002.02R01



# 8.10 Antenna Requirement

EUT: HG06608B-US
Op Condition: Operated, TX Mode
Test Specification: FCC15.203 & 15.247(b)

Comment: DC 5V

Test Result	
□ Passed	
☐ Not Passed	

#### Limit

For intentional device, according to FCC Title 47 Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC Title 47 Part 15.247(b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **Antenna Connector Construction**

The antenna used in this product is an integrated antenna on PCB, and the maximum gain of this antenna is 0dBi.



# 9 Test setup procedure

## 9.1 Spurious Radiated Emission

#### **Test Method**

- 1: The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3: The height of antenna 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.
- 4: 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.
- 5: Use the following spectrum analyzer settings According to C63.10: For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 KHz to 120KHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement, Sweep = auto,

Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW=10Hz, Sweep = auto, Detector function = peak, Trace = max hold. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit.

If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correct factor, derived from the appropriate the duty cycle calculation.

The setting method can refer to DA00-705.



#### **Spurious Radiated Emission**

#### Limit

The radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section15.205, must comply with the radiated emission limits specified in section 15.209.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Frequency MHz	Field Strength uV/m	Field Strength dBµV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.



# 9.2 Conducted Emission at AC Power line

#### **Test Method**

- 1. The EUT was placed on a table, which is 0.8m above ground plane
- 2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
- 3. Maximum procedure was performed to ensure EUT compliance
- 4. A EMI test receiver is used to test the emissions from both sides of AC line

#### Limit

According to §15.207 & RSS-GEN 8.8, conducted emissions limit as below:

Frequency	QP Limit	AV Limit
MHz	dΒμV	dΒμV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Remark: "\*" Decreasing linearly with logarithm of the frequency



## 9.3 20dB & 99% Bandwidth

#### **Test Method**

Limit

- 1. Use the following spectrum analyzer settings:
- RBW=100K, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 20 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be  $\geq$  20 dB.
- 3. Allow the trace to stabilize, record the X dB Bandwidth value.

Limit [kHz]
NA



## 9.4 Peak Output Power

#### **Test Method**

- 1. Connect the spectrum analyzer to the EUT
  - a) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.
  - b) At all times the EUT is transmitting at its maximum power control level.
  - c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- 2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- 3. Adjust the measurement in dBm by adding 10log (1/x), where x is the duty cycle to the measurement result.

#### Limits

According to §15.247 (b) (1) & RSS-247 5.4(d), conducted peak output power limit as below:

Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30

### For e.i r.p:

Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤4	≤36



#### **Test Method**

- 1. Establish a reference level by using the following procedure:
  - a. Set RBW=100 kHz. VBW≥3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
  - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
- 2. Use the maximum PSD level to establish the reference level.
  - a. Set the center frequency and span to encompass frequency range to be measured.
  - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
- 3. Repeat above procedures until other frequencies measured were completed.

#### Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20



# 9.6 100kHz Bandwidth of band edges

#### **Test Method**

- 1 Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

## Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

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# 9.7 Number of hopping frequencies

#### **Test Method**

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c) VBW ≥ RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize.
- h) Count the number of hopping frequencies

Limit		
	Limit	
	> 15	

Report Number: 60.792.22.002.02R01



# 9.8 Minimum Hopping Channel Carrier Frequency Separation

#### **Test Method**

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: Wide enough to capture the peaks of two adjacent channels.
- b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c) Video (or average) bandwidth (VBW) ≥ RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

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	Limit
_	≥ 2/3 of 20dB bandwidth of hopping channel



#### **Test Method**

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be  $\leq$  channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
- c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- d) Detector function: Peak.
- e) Trace: Max hold.

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this testfor each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements) =

(number of hops on spectrum analyzer)  $\times$  (period specified in the requirements / analyzer sweep time)

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

## Limit

 Limit
≤0.4s



# 10 Appendix A - General Product Information

#### Radiofrequency radiation exposure evaluation

This exposure evaluation is intended for FCC ID: 2AJ9O-HG6608

According to KDB 447498 D01v06 section 4.3.1, For frequencies between 100 MHz to 6GHz and test separation distances ≤ 50 mm, the Numeric threshold is determined as:

#### Step a)

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR

>> The fundamental frequency of the EUT is 2402-2480MHz, the test separation distance is ≤ 50mm. (Manufacturer specified the separation distance is: 5mm) (5mm is the worst case according to the KDB)

#### Step b)

- >> Numeric threshold (2402MHz), mW / 5mm \*  $\sqrt{2.402}$ GHz  $\leq 3.0$  Numeric threshold (2402MHz)  $\leq 9.678$ mW
- >> Numeric threshold (2441MHz), mW / 5mm \*  $\sqrt{2.440}$ GHz  $\leq 3.0$  Numeric threshold (2441MHz)  $\leq 9.602$ mW
- >> Numeric threshold (2480MHz), mW / 5mm \*  $\sqrt{2.480}$ GHz  $\leq 3.0$  Numeric threshold (2480MHz)  $\leq 9.525$ mW
- >> The power (measured + tune up tolerance) of EUT at 2402MHz is: 5.41dBm = 3.48mW The power (measured + tune up tolerance) of EUT at 2441MHz is: 5.27dBm = 3.37mW The power (measured + tune up tolerance) of EUT at 2480MHz is: 5.31dBm = 3.40mW

Which is smaller than the Numeric threshold.

Therefore, the device is exempt from stand-alone SAR test requirements.

Reviewed by:

Prepared by:

Eric LI EMC Project Manager Hosea CHAN EMC Project Engineer



# 11 Appendix B - DECLARATION

#### **DECLARATION LETTER FOR MODEL DIFFERENCE**

# SILVER CREST

To: TÜV SÜD Hong Kong Limited.

Attention: Eric Li

From: Ben Leung

Fax No: N.A. Total Page (Cover Included): 1

#### **Declaration Letter**

We: Lidi US, LLC

3500 South Clark Street, Arlington, VA 22202, US

Officially notify TÜV SÜD Hong Kong Limited. 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 in color of the different models.

<<Additional Model >>: HG06608A-US

<<Main Test Model >>: HG06608B-US

<< Product>>: Ear muffs with Bluetooth PKB 5 A1

18 May 2022 (Date)

(Applicant's authorized signature and company Chop)

Date: 18 May 2022