

FCC - TEST REPORT

| Report Number | : | 60.792.22.002.02R01 | Date of Issue | : <u>May 18, 2022</u> |
|----------------------------------------|---|--------------------------|----------------------|-----------------------|
| 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 | , USA |
| Production Facility | : | Foshan Shunde JunYe E | electronic Co., Ltd. | |
| Address | : | Zhenghe South Road, Le | eliu Shunde, Foshan | , Guang 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, π/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 |



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 ⁻⁷ | | | |

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 | Pages | es Test Result | | ult |
| | | Pass | Fail | N/A |
| FCC Title 47 Part 15.205, 15.209 & 15.247(d) Spurious Radiated Emission | 12-18 | \square | | |
| FCC Title 47 Part 15.207(a) AC Line Conducted Emission | 19-20 | \boxtimes | | |
| FCC Title 47 Part 15.247(a)(2) 20dB & 99% Bandwidth | 21-26 | \boxtimes | | |
| 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 | \square | | |
| FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges | 45-48 | \square | | |
| FCC Title 47 Part 15.247(a)(1) Min. No. of Hopping Frequencies | 49-50 | \boxtimes | | |
| FCC Title 47 Part 15.247(a)(1) Min. of Hopping Channel Carrier Frequency Separation | 51-52 | \square | | |
| FCC Title 47 Part 15.247(a)(1) Average Time of Occupancy | 53-58 | \square | | |
| FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement | 59 | \square | | |



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, 15.205, 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
- O 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

since Lie

Hosea CHAN EMC Project Engineer

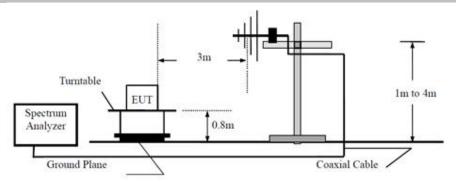
Louise Liu EMC Test Engineer

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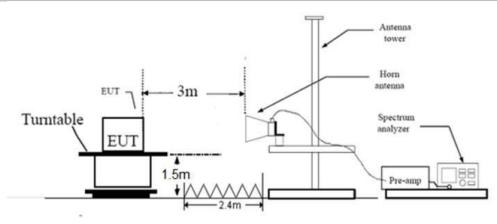


7 Test Setups

7.1 Radiated test setups Below 1GHz

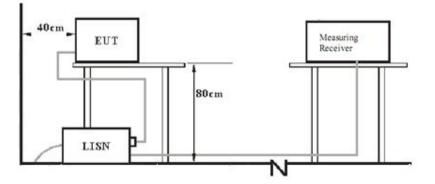


7.2 Radiated test setups Above 1GHz

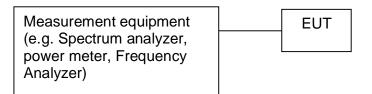




7.3 AC Power Line Conducted Emission test setups



7.4 Conducted RF test setups





8 Emission Test Results

8.1 Spurious Radiated Emission

| EUT: | |
|---------------|--|
| Op Condition: | |

Comment:

Remark:

Test Specification:

HG06608A-US Operated, TX Mode (2DH5) (Highest channel is the worst case) FCC15.205, 15.209 & 15.247(d) DC 5V Below 1GHz 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) |
| 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:

1. As the measured peak value not exceeded the Quasi-peak limit, Quasi-peak value no need to be measured.

 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)



Δnt

Spurious Radiated Emission

| EUT: | HG06608B-US | Test Result |
|---------------------|-----------------------------------|--------------|
| Op Condition: | Operated, TX Mode (2402MHz, 2DH5) | ☐ Passed |
| Test Specification: | FCC15.205, 15.209 & 15.247(d) | ☐ Not Passed |
| Comment: Remark: | DC 5V 1GHz to 25GHz | |

| Frequency | Result | Limit | Margin | Detector | 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)



Spurious Radiated Emission

| EUT:HG06608B-USOp Condition:Operated, TX Mode (2441MHz, 2DH5)Test Specification:FCC15.205, 15.209 & 15.247(d)Comment:DC 5VRemark:1GHz to 25GHz | Test Result |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------|

| 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)



Spurious Radiated Emission

EUT: Op Condition: Test Specification: Comment: Remark: HG06608B-US Operated, TX Mode (2480MHz, 2DH5) FCC15.205, 15.209 & 15.247(d) DC 5V 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)



Δnt

Spurious Radiated Emission

| EUT: | HG06608B-US | Test Result |
|---------------------|----------------------------------|--------------|
| Op Condition: | Operated, TX Mode (2402MHz, DH5) | ☐ Passed |
| Test Specification: | FCC15.205, 15.209 & 15.247(d) | ☐ Not Passed |
| Comment: Remark: | DC 5V 1GHz to 25GHz | |

| Frequency | Result | Limit | Margin | Detector | 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.
- 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)



Δnt

Spurious Radiated Emission

| EUT:HG06608B-USOp Condition:Operated, TX ModeTest Specification:FCC15.205, 15.209 & 7Comment:DC 5VRemark:1GHz to 25GHz | |
|------------------------------------------------------------------------------------------------------------------------|--|
|------------------------------------------------------------------------------------------------------------------------|--|

| Frequency | Result | Limit | Margin | Detector | 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.
- 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)



Spurious Radiated Emission

EUT: Op Condition: Test Specification: Comment: Remark: HG06608B-US Operated, TX Mode (2480MHz, DH5) FCC15.205, 15.209 & 15.247(d) DC 5V 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)



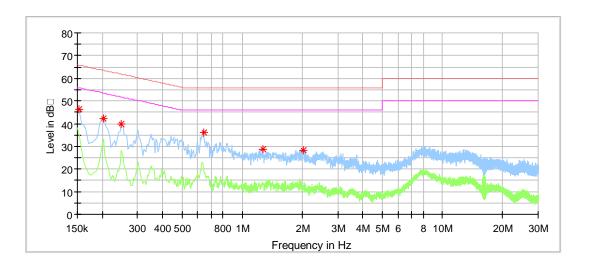
Test Result

 \boxtimes Passed

Not Passed

8.2 Conducted Emission at AC Power line

EUT: Op Condition: Test Specification: Comment: HG06608B-US BT Link AC Mains, L Line 120V AC, 60Hz (supporting adapter input)



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



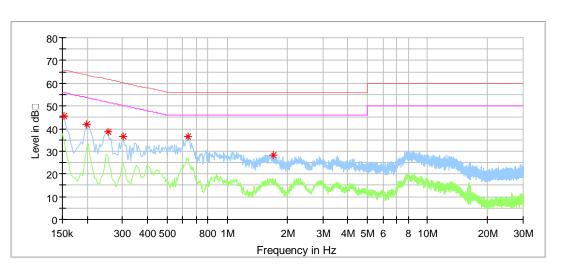
Test Result

 \boxtimes Passed

Not Passed

Conducted Emission Test

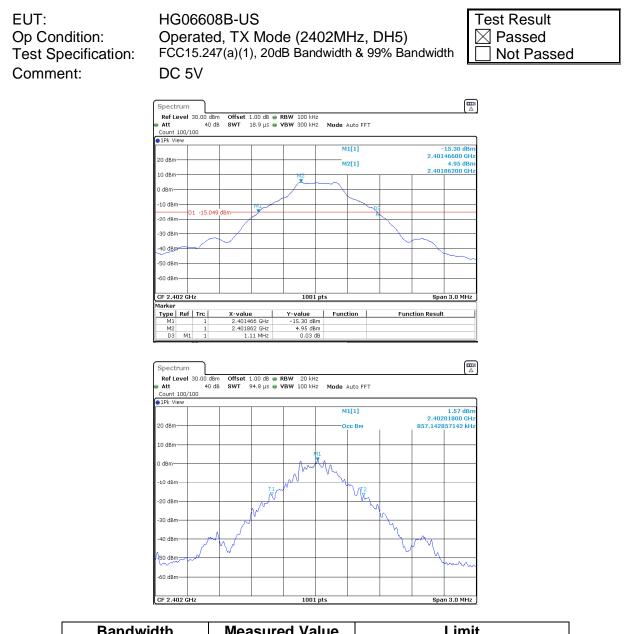
EUT: Op Condition: Test Specification: Comment: HG06608B-US BT Link AC Mains, N Line 120V AC, 60Hz (supporting adapter input)



| Frequency (MHz) | MaxPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (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 |

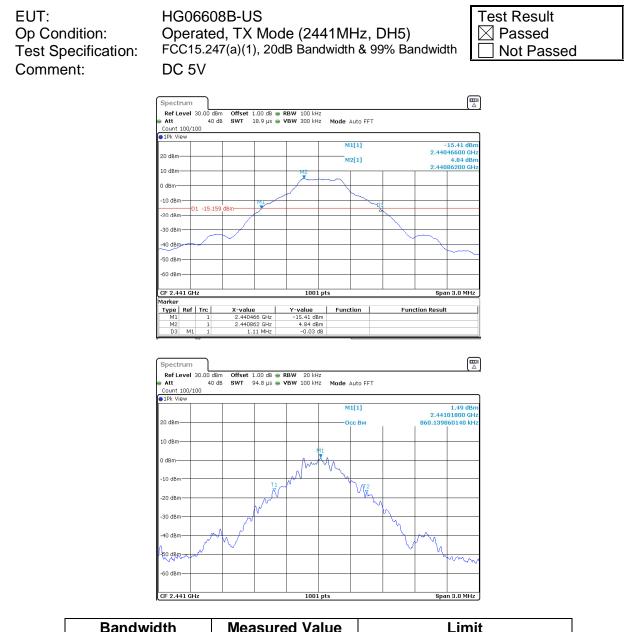


8.3 20dB & 99% Bandwidth



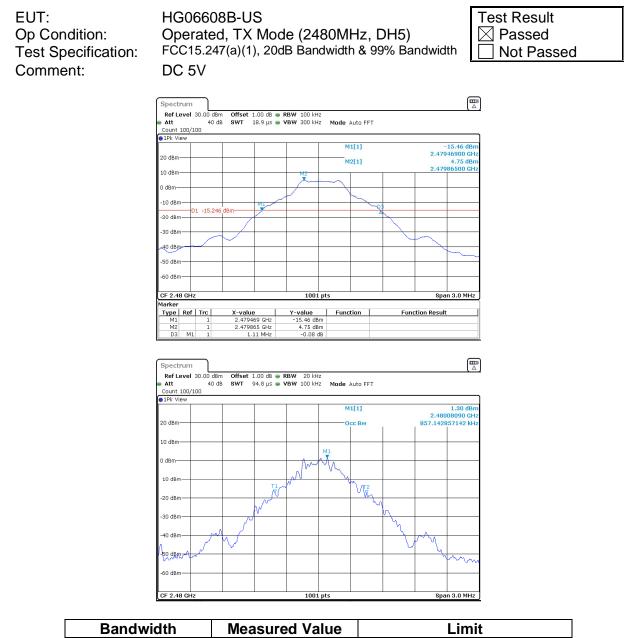
| Bandwidth | Measured Value | Limit |
|----------------|----------------|-------|
| 20dB bandwidth | 1.110 MHz | NA |
| 99% OCB | 0.857 MHz | NA |





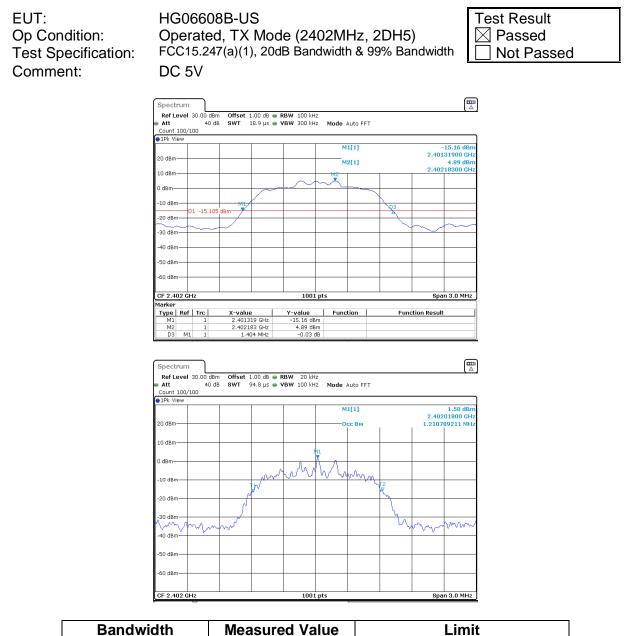
| Bandwidth | Measured Value | Limit |
|----------------|----------------|-------|
| 20dB bandwidth | 1.110 MHz | NA |
| 99% OCB | 0.860 MHz | NA |





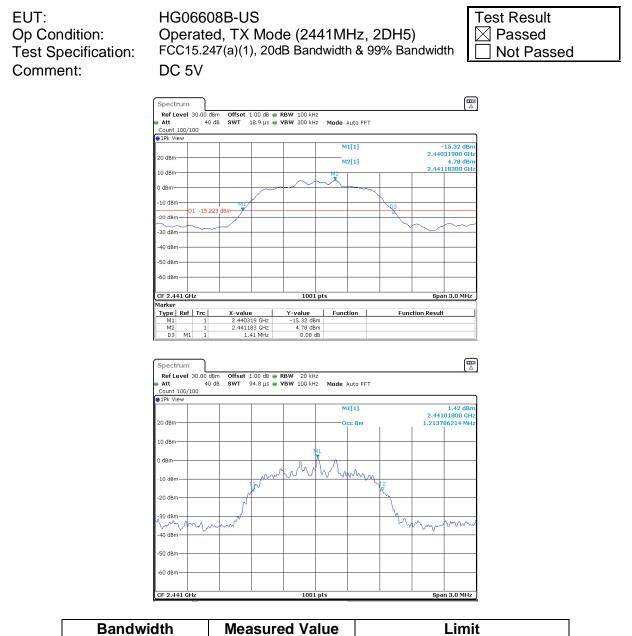
| Bandwidth | Measured Value | Limit |
|----------------|----------------|-------|
| 20dB bandwidth | 1.110 MHz | NA |
| 99% OCB | 0.857 MHz | NA |





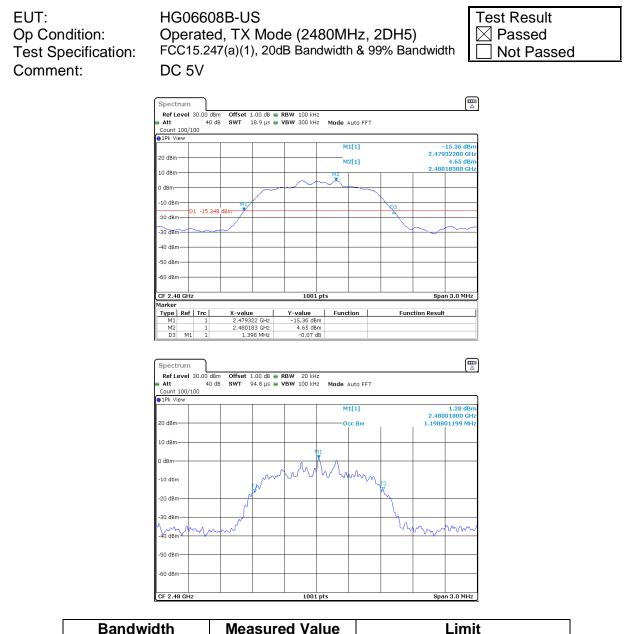
| Bandwidth | Measured Value | Limit |
|----------------|----------------|-------|
| 20dB bandwidth | 1.404 MHz | NA |
| 99% OCB | 1.211 MHz | NA |





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





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



| EUT: Op Condition: Test Specification: Comment: | HG06608B-US Operated, TX Mode (2402MHz, DH5) FCC15.247(b) DC 5V Test Result ⊠ Passed □ Not Passed |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | |
| | RefLevel 30.00 dBm Offset 1.00 dB ● RBW 3 MHz ● Att 40 dB SWT 1 ms ● VBW 10 MHz Mode Auto Sweep |
| | Count 100/100 bitPk View bitPk vi |
| | M1[1] 5.06 dBm |
| | 20 dBm 2,40182420 GHz |
| | |
| | 10 dBm |
| | D dBm |
| | |
| | -10,40m |
| | -20 dbm |
| | |
| | -30 dBm |
| | -40 dbm |
| | |
| | -50 dBm |
| | -60 dBm |
| | |
| | CF 2.402 GHz 1001 pts Span 8.0 MHz |
| | |
| | Conducted Output Power Limit |
| | |
| | 5.06 dBm < 30dBm |



| EUT: Op Condition: Test Specification: Comment: | HG06608B-US Operated, TX Mode (2441MHz, DH5) FCC15.247(b) DC 5V Test Result ⊠ Passed □ Not Passed |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| | Spectrum 🔟 |
| | RefLevel 30.00 dBm Offset 1.00 dB RBW 3 MHz Att 40 dB SWT 1 ms VBW 10 MHz Mode Auto Sweep |
| | Count 100/100 B 1PK View |
| | HA VIEW M1[1] 4.96 dBm |
| | 20 dBm |
| | |
| | 10 dBm M1 |
| | |
| | 0 dBm |
| | 19.48m |
| | |
| | -20 dBm |
| | -30 dBm- |
| | |
| | -40 dBm |
| | -50 dBm |
| | |
| | -60 dBm |
| | |
| | CF 2.441 GHz 1001 pts Span 8.0 MHz |
| | |
| | Conducted Output Power Limit |
| | |
| | 4.96 dBm < 30dBm |



| EUT: Op Condition: Test Specification: Comment: | HG06608B-US Operated, TX Mode (2480MHz, DH5) FCC15.247(b) DC 5V Test Result □ Passed □ Not Passed |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| | Spectrum 🔛 |
| | RefLevel 30.00 dBm Offset 1.00 dB RBW 3 MHz Att 40 dB SWT 1 ms VBW 10 MHz |
| | Count 100/100 |
| | 1Pk View 111 4.85 dBm |
| | 20 dBm |
| | |
| | 10 dBm M1 |
| | D dBm |
| | |
| | -10.46m |
| | -20 dBm |
| | -30 dBm |
| | -50 doin |
| | -40 dBm |
| | -50 dBm |
| | |
| | -60 dBm |
| | CF 2.48 GHz 1001 pts Span 8.0 MHz |
| | |
| | Conducted Output Power Limit |
| | |
| | 4.85 dBm < 30dBm |



| EUT: Op Condition: Test Specification: Comment: | HG06608B-US Operated, TX Mode (2402MHz, 2DH5) FCC15.247(b) DC 5V Test Result □ Passed □ Not Passed |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| | Spectrum 🚨 |
| | RefLevel 30.00 dBm Offset 1.00 dB RBW 3 MHz Att 40 dB SWF 1 ms VBW 10 MHz |
| | Count 100/100 |
| | ●1Pk View M1[1] 5.41 dBm |
| | 20 dBm 2.40216780 GHz |
| | |
| | |
| | 0 dBm |
| | -10 d8m |
| | |
| | -20 dBm |
| | -30 dBm |
| | |
| | -40 dBm |
| | -50 dBm |
| | -60 dBm |
| | |
| | CF 2.402 GHz 1001 pts Span 8.0 MHz |
| | |
| | Conducted Output Power Limit |
| | 5.41 dBm < 30dBm |
| | |



| EUT: Op Condition: Test Specification: Comment: | HG06608B-US Operated, TX Mode (2441MHz, 2DH5) FCC15.247(b) DC 5V Test Result ⊠ Passed □ Not Passed |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| | Spectrum 🛄 |
| | RefLevel 30.00 dBm Offset 1.00 dB RBW 3 MHz |
| | Att 40 dB SWT 1 ms VBW 10 MHz Mode Auto Sweep Count 100/100 |
| | ●1Pk View M1[1] 5.27 dBm |
| | 20 dBm 20 dBm |
| | |
| | 10 dBm |
| | 0 dBm |
| | -10.0Bm |
| | |
| | -20 dBm- |
| | -30 dBm |
| | -40 dBm |
| | |
| | -50 dBm- |
| | -60 dBm- |
| | CF 2.441 GHz 1001 pts Span 8.0 MHz |
| | GF 2.441 GHz 1001 pts Span 8.0 MHz |
| | Conducted Output Dower Limit |
| | Conducted Output Power Limit |
| | 5.27 dBm < 30dBm |

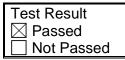


| EUT: Op Condition: Test Specification: Comment: | HG06608B-US Operated, TX Mode (2480MHz, 2DH5) FCC15.247(b) DC 5V Test Result ⊠ Passed □ Not Passed |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| | Spectrum 🛄 |
| | RefLevel 30.00 dBm Offset 1.00 dB B RBW 3 MHz Att 40 dB SWT 1 ms VBW 10 MHz Mode Auto Sweep |
| | Count 100/100 |
| | Irk View M1[1] 5.31 dBm |
| | 20.dbm |
| | |
| | 10 dBm |
| | D dBm |
| | -10-d0m |
| | |
| | -20 dBm |
| | -30 dBm |
| | |
| | -40 dBm |
| | -50 dBm |
| | -60 dBm |
| | |
| | CF 2.48 GHz 1001 pts Span 8.0 MHz |
| | |
| | Conducted Output Power Limit |
| | 5.31 dBm < 30dBm |
| | |

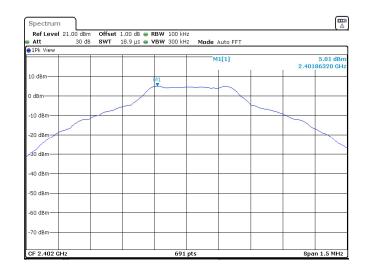


8.5 Spurious Emissions at Antenna Terminals

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2402MHz, DH5) FCC2.1051 & 15.247(d) DC 5V



| Channel | FreqRange MHz | RefLevel dBm | Result dBm | Limit dBm | Verdict |
|---------|------------------|-----------------|---------------|--------------|---------|
| 2402 | 2402 | 5.01 | 5.01 | | PASS |
| 2402 | 30~1000 | 5.01 | -66.75 | <=-14.99 | PASS |
| 2402 | 1000~26500 | 5.01 | -35.26 | <=-14.99 | PASS |





Test Result

 \boxtimes Passed

Not Passed

Spurious Emissions at Antenna Terminals

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2402MHz, DH5) FCC2.1051 & 15.247(d) DC 5V

| Spectrur | | | | | _ | | | | E Z |
|------------------------------|------------------------------|--------------------|-----------------------------------------|---------------------------|----------------------|-------------------------|------------------|--------------------|-----------------------------------|
| Ref Leve Att Count 10/ | el 11.00 dBn 20 dE /10 | | 1.00 dB 👄 🛿 30.1 ms 👄 🎙 | | | Auto Sweep | | | |
| ●1Pk Max | 1 | | | | | 1[1] | | | |
| | | | | | | -66.75 dB 960.0210 M | | | |
| 0 dBm | | | | | | | | | |
| | | | | | | | | | |
| -10 dBm | | | | | | | | | |
| -20 dBm- | D1 -14.990 | dBm | | | | | | | |
| -20 UBIII- | | | | | | | | | |
| -30 dBm- | | | | | | | | | |
| | | | | | | | | | |
| -40 dBm— | | | | | | | | | |
| -50 dBm | | | | | | | | | |
| 55 4511 | | | | | | | | | |
| -60 dBm— | | | | | | | | | |
| | | | | | | | | | M1 |
| | a cover protonol | يستغيبنا والمستعاص | And the second second second | Charle and a state of the | an the second second | and the second second | dilitida para de | hinner frieder | la Ulugʻini kuda Matarika basa |
| -80 dBm- | n alexadin de la Carpo | a substant days | a na ana ana ana ana ana ana ana ana an | and a sub-location | and an all and | and the second of | and the second | dive solution of 1 | |
| oo abiii | | | | | | | | | |
| Start 30.0 |) MHz | | 1 | 3000 | 1 pts | | | Sto | p 1.0 GH; |

| Att | 0.00 dBm: 30 dB | | | RBW 100 kHz VBW 300 kHz | | | | | |
|------------------------------|---------------------------|-----------------|----------------|----------------------------|------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|
| Att Count 9/10 | 30 dB | SWI | 255 ms 🖷 | VBW 300 KH2 | Mode / | Auto Sweep | | | |
| 1Pk Max | | | | | | | | | |
| | | | | | M | 1[1] | | | 35.26 dE 99100 G |
| 0 dBm | | | | | | | | 2.3 | 99100 G |
| 0 | | | | | | | | | |
| dBm | | | | | | | | | |
| | | | | | | | | | |
| 10 dBm | | | | | | | | | |
| 20 dBm | -14.990 | dBm | | | | | | | |
| 20 asm | | | | | | | | | |
| 30 d 6 m | | | | | | | | | |
| ₩1 | | | | | | | | | |
| 40 dBm | - | | | | | | | | |
| | | | 1.1 | | | | | | |
| 50 dBm | | | | | d de const | 1 | | | |
| | أستعليا عدرر | in politica app | بالقرم ويغتلى | dutte indiad | | "A "holes defined". Define | endido" yalanga | with the part | and a straight |
| 50 di mətəliri İstəradini | and the set of the set of | and the provest | ng dan samb da | - | Part P | | and the second se | 1 | and the second second |
| 70 dBm | | | | | | | | | |
| | | | | | | | | | |
| /o ubiii | | | | | | | | | |



Spurious Emissions at Antenna Terminals

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2441MHz, DH5) FCC2.1051 & 15.247(d) DC 5V

| Test Result | |
|-------------|--|
| 🛛 Passed | |
| Not Passed | |

| Channel | FreqRange MHz | RefLevel dBm | Result dBm | Limit dBm | Verdict |
|---------|------------------|-----------------|---------------|--------------|---------|
| 2441 | 2441 | 4.76 | 4.76 | | PASS |
| 2441 | 30~1000 | 4.76 | -66.3 | <=-15.24 | PASS |
| 2441 | 1000~26500 | 4.76 | -38.02 | <=-15.24 | PASS |





Test Result

Passed

Not Passed

Spurious Emissions at Antenna Terminals

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2441MHz, DH5) FCC2.1051 & 15.247(d) DC 5V

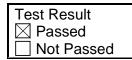
| Ref Leve | el 11.00 dBm 20 dB | | 1.00 dB 👄 H 30.1 ms 👄 🞙 | | Auto Sweep | | | | |
|------------|-------------------------|-----------------------|----------------------------|------------|------------|---|-------------------|--------------------|--|
| Count 10/ | | | | - Mode | Auto Sweep | | | | |
| 1Pk Max | | | - | M | 1[1] | | | -66.30 dB | |
| | | | | | -1-1 | | 960.0210 Mi | | |
|) dBm | | | | | | | | | |
| 10 dBm— | | | | | | | | | |
| -10 UBIII— | D1 -15.240 | dBm | | | | | | | |
| 20 dBm— | 01 10.210 | | | | | | | | |
| | | | | | | | | | |
| -30 dBm— | | | | | | | <u> </u> | <u> </u> | |
| -40 dBm | | | | | | | | | |
| | | | | | | | | | |
| -50 dBm— | | | | | | | | - | |
| -60 dBm | | | | | | | · . | | |
| -60 asm— | | | | | | | | M1 | |
| 70 dBm | and the state of states | L. Landerson | demonstales in | | - | - | allicontemptar | L. Martin | |
| - | | and the second second | | | | | -telperist-social | and shared a state | |
| 80 dBm— | + | | | | | | + | + | |

| 1Pk Max | | | | _ | | | | | | | |
|---------|-------|-------|------|-------|-------|----------|-------------------------|------------------|-----------------|---------|-------------------|
| | | | | | | | N N | 11[1] | | | 8.02 dE 1950 G |
| LO dBm | | | | | - | | | | + | | |
|) dBm | | | | | | | | | | | |
| | | | | | | | | | | | |
| 10 dBm | | | | | + | | | | | | |
| | D1 -1 | 5.240 | dBm- | | - | | | | | | |
| 20 dBm | | | | | | | | | | | |
| 30 dBm— | | | | | | | | | | _ | |
| | M | 1 | | | | | | | | | |
| 40 dBm | | | | | - | | | | | | |
| 50 dBm | | | | | | | | | | | |
| 00 020 | | | | 1 | | ين ار اه | يا ير مىرىمى | A Sharen as beer | الم المراجع الم | يعاسمون | الاستعمادة |
| | | | | | | 1.00.00 | | | | | |

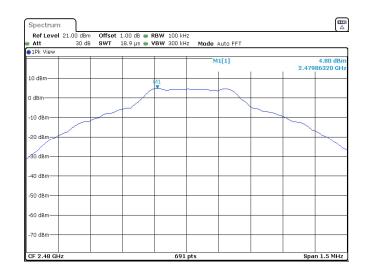


Spurious Emissions at Antenna Terminals

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2480MHz, DH5) FCC2.1051 & 15.247(d) DC 5V



| 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 |





 \boxtimes Passed

Not Passed

Spurious Emissions at Antenna Terminals

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2480MHz, DH5) FCC2.1051 & 15.247(d) DC 5V

| Ref Lev Att | el 11.00 dBm 20 dB | | 1.00 dB 👄 🛙 30.1 ms 👄 🎙 | | | Auto Sweep | | | |
|----------------|----------------------------------------------|---------------------|----------------------------------------------|--------------------------------------------|-----------------|---------------------------------|---------------------------|----------------------------|-------------------|
| Count 10, | | 3 9 9 1 | 50.1 ms 🖶 י | NDW SUUKH | 2 Moue | Auto Sweep | | | |
| ⊖1Pk Max | | | | | | | | | |
| | | | | | м | 1[1] | | | 66.40 dBn |
| 0 dBm | | | | | | | | | |
| | | | | | | | | | |
| -10 dBm— | | | | | | | | | |
| | D1 -15.200 | dBm | | | | | | | |
| -20 dBm— | | | | | | | | | |
| -30 dBm- | | | | | | | | | |
| -30 ubiii— | | | | | | | | | |
| -40 dBm— | | | | | | | | | |
| | | | | | | | | | |
| -50 dBm— | | | | | | | | | |
| | | | | | | | | | |
| -60 dBm— | | | | | | | | | M1 |
| -70 dBm- | a second sector | 1 | | | la la | | and the second | S. and M. A. | |
| | անվերությունը հերթարու Դերեսությունը էրու | and disard units of | (Jacobie e dis Addie Generalie (M) (M) | lenelagoilengelenel Obtonu die erfender | d assessment in | levery service and provide pro- | pullips of public balance | and a provide state of the | in a state of the |
| -80 dBm— | | | - ··· | | | | | | |
| | | | | | | | | | |
| Start 30. | 0 MHz | I | 1 | 3000 | 1 pts | I | I | Sto | p 1.0 GHz |

| Att | a 20. | 00 dBn 30 dB | | | | | BW 100 | | Mode | Auto Sweep | | | | |
|-----------|-----------|-------------------------------------------|---------------|----------|-------------|-----------|-----------------------|---|------|----------------------|-----------------|------------------------------------------|--------------|--|
| Count 8/1 | 0 | 00 at | | | | | 511 000 | | Mode | Addo officep | | | | |
| 1Pk Max | 1 | | | | | | | - | | 1[1] | | | 07.10.40 | |
| | | | | | | | | | IVI | 1[1] | | -37.19 dB 4.959300 G | | |
| 0 dBm | | | | | | | | _ | | | | | | |
| 1 | | | | | | | | | | | | | | |
| dBm | | | | | | | | | | | | | <u> </u> | |
| | | | | | | | | | | | | | | |
| 10 dBm— | - | | | | | | | | | | | | | |
| 20 dBm— | -D1 - | 15.200 | dBm- | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 30 dBm— | | | | | | | | | | | | | | |
| | | M1 | | | | | | | | | | | | |
| 40 dBm— | | _ | | | | | | | | | | | <u> </u> | |
| | | | | | | | | | | | | | | |
| 50 dBm— | | | | | | | | | | in in a | a kata | | | |
| | in last a | a bal | Marina. | harring | مرجع او او | (Internal | الهامين والاحدادة | | | la sin a sa sa sa sa | وقار الاراصاف ا | | 1.490 Albert | |
| 59,dE e-t | | in an | al and a star | a di pad | a state and | anistan) | and the second second | | | | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | |
| | T | | | | | | | | | | | | | |

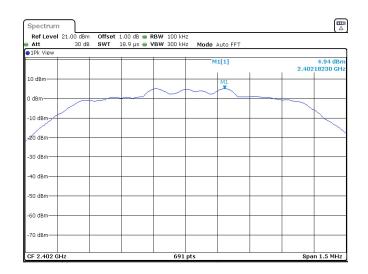


Spurious Emissions at Antenna Terminals

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2402MHz, 2DH5) FCC2.1051 & 15.247(d) DC 5V

| 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 |





 \boxtimes Passed

Not Passed

Spurious Emissions at Antenna Terminals

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2402MHz, DH5) FCC2.1051 & 15.247(d) DC 5V

| Spectrur | n | | | | | | | | |
|------------------|-------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------|------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|------------------|
| Att Count 10/ | 11.00 dBm 20 dB 10 | | 1.00 dB 👄 🖡 30.1 ms 👄 🛛 | | | Auto Sweep | | | |
| ●1Pk Max | | | | | M | 1[1] | | | 67.33 dBm |
| 0 dBm | | | | | | | L | 959 | .9890 MH: |
| | | | | | | | | | |
| -10 dBm | D1 -15.060 | dBm | | | | | | | |
| -20 dBm | | | | | | | | | |
| -30 dBm | | | | | | | | | |
| -40 dBm | | | | | | | | | |
| -50 dBm | | | | | | | | | |
| -60 dBm | | | | | | | | | |
| -70 dBm | | | | | | | | | M1 |
| | ang ng n | References and the state | and a start of the second s | and the statistical | Revenue printingen Ref Hinsteine Line. | land the the the | advection (Constrained | and the state of the | 14 ja kuntangaté |
| -80 dBm | | | | | | | | | |
| Start 30.0 | MHz | | 1 | 3000 | 1 pts | | 1 | Sto | p 1.0 GHz |

| Att | l 20.00 di 30 | | | | | | 100 kH 300 kH | | Auto Sweep | | | |
|--------------------------|-----------------------------------|----------------|--------|--------|---------|--------|-----------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|
| Count 9/10 | | ub 3 | ** 1 | 255 11 | 5 | 1011 | 300 KH | z Moue | karo sweeb | | | |
| 1Pk Max | | | | | | | | | | | | |
| | | | | | | | | M | 1[1] | | | 29.80 dE |
| 0 dBm | | | | | | | | | | | 2.3 | 99950 G |
| o dom | | | | | | | | | | | | |
| dBm- | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 10 dBm | | | | | | _ | | | | | | |
| | D1 -15.0 | 60 dBm | | | | _ | | | | | | |
| 20 dDm | | | | | | | | | | | | |
| м1 | | | | | | | | | | | | |
| 30 d <mark>8</mark> m | | | | - | | + | | | | | | |
| | | | | | | | | | | | | |
| 40 dBm | | - | | + | | + | | | | | | |
| | | | | 1.1 | | | | | | | | |
| 50 dBm | | | | | | - | | | | 1.1 | | |
| - L | and the state | Malake | 100.00 | Jan J | arikina | June | Andar | Market and Andre | A Charles and | CALLER MARK | بار و منالك السبا | الإرجاليط |
| iq,dl <mark>frank</mark> | مى بەر يەرىپى مەربارلىرىيە بىر | and the second | unity) | فيعنعه | and she | epos.k | per provide de la competencia de la com | then here also. | a iline a sur a | رمينيل التمركاني ا | a alian di sa d | alara di Kasara |
| the state | | | | | | | | | | | | |
| 70 dBm | | - | | - | | + | | | | | | |
| | | | | | | | | | 1 | | | |
| | | | | | | | | | | | | |



Spurious Emissions at Antenna Terminals

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2441MHz, 2DH5) FCC2.1051 & 15.247(d) DC 5V

| 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 |

| Att | 30 dB | SWT | 18.9 µs 😑 \ | /BW 300 kH | z Mode / | Auto FFT | | |
|-----------|-------|-----|--------------------|------------|----------|----------|-------|----------------------|
| JIPK VIEW | | | | | М | 1[1] | 2.441 | 4.69 dBr 18230 GH |
| 10 dBm | | | | | _ | M1 | | |
| 0 dBm | | | | \sim | | | | |
| -10 dBm | | | | | | | | |
| -20 dBm- | | | | | | | | |
| -30 dBm | | | | | | | | |
| -40 dBm | | | | | | | | |
| -50 dBm | | | | | | | | |
| -60 dBm | | | | | | | | |
| -70 dBm | | | | | | | | |



 \boxtimes Passed

Not Passed

Spurious Emissions at Antenna Terminals

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2441MHz, 2DH5) FCC2.1051 & 15.247(d) DC 5V

| Spectrum | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Reflevel 11.00 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 | |
| 1Pk Max M1[1] -66.36 | dBr |
| 960.0210 | |
| 0 dBm | |
| -10 dBm | |
| -10 dBin- | |
| -20 dBm | |
| | |
| -30 dBm | |
| -40 dBm | |
| | |
| -50 dBm | |
| -60 dBm | |
| -00 0011 | M1 |
| 70 gBpd rate of a second in the second state of the second se | t atta |
| | Sec. 50 |
| -80 dBm | |
| Start 30.0 MHz 30001 pts Stop 1.0 | 0112 |

| Count 9/1 | 30 di 0 | B SWT | 255 ms 👄 ۷ | . DW 300 KH | 2 Mode / | Auto Sweep | | | | |
|-------------------------------|------------|--------------------|----------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------|--|
| 1Pk Max | | 1 | 1 | | | | | | | |
| | | | | | M | 1[1] | | -42.20 dBi 4.881950 GH | | |
| LO dBm | | | | | | | | 1.0 | 01700 0 | |
| | | | | | | | | | | |
| dBm | | | | | | | | | | |
| | | | | | | | | | | |
| 10 dBm— | | | | | | | | | | |
| 20 dBm- | D1 -15.310 | dBm | | | | | | | | |
| 20 abm— | | | | | | | | | | |
| 30 dBm | | | | | | | | | | |
| | | | | | | | | | | |
| | M1 | | | | | | | | | |
| 40 dBm— | I I | | 1 | | | | | | | |
| 40 dBm— | | | | | | | | | | |
| | | | | | | | | يو الما لأأ أعاط لب | 1. A. | |
| 50 dBm | | and the states of | الدمعين السرير | the manifest of | والقار ألحقاقيل | a second s | | | e na serie de la companya de la comp | |
| 40 dBm— 50 dBm— 60 dBm— | lynni dete | and all a straight | and distant | an an an Arabatan Ann an Arabatan | and the party of the state of t | a second s | ىرىلىلەردا ئاتىرلىرى يىرىنىي <mark>ر</mark> ىسىتىر | | n an | |

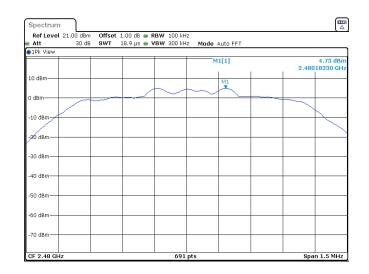


Spurious Emissions at Antenna Terminals

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2480MHz, 2DH5) FCC2.1051 & 15.247(d) DC 5V

| 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 |





 \boxtimes Passed

Not Passed

Spurious Emissions at Antenna Terminals

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2480MHz, 2DH5) FCC2.1051 & 15.247(d) DC 5V

| Spectrun | | | | | | | | | |
|-------------------|----------------------------|----------------------------|----------------------------|----------------------|-----------------------|-----------------------------|--------------------------|----------------|---------------------------------------------------------------------------|
| Att Count 10/: | l 11.00 dBm 20 dB 10 | | 1.00 dB 👄 🖡 30.1 ms 👄 🛛 | | | Auto Sweep | | | |
| ●1Pk Max | | | | | M | 1[1] | | - | 66.65 dBm |
| 0 dBm | | | | | | | | 960 | .0210 MH: |
| o abiii | | | | | | | | | |
| -10 dBm | | 10 | | | | | | | |
| -20 dBm | 01 -15.270 | asm- | | | | | | | |
| -30 dBm | | | | | | | | | |
| -40 dBm | | | | | | | | | |
| -50 dBm | | | | | | | | | |
| -60 dBm | | | | | | | | | M1 |
| -70 dBm | shironiophia | a lange the set | akana kana dala ka | <u>क्रम्स</u> ्रम् स | Description which the | n linh, dina alla | an and other states | | |
| -80 dBm | in some state of the sec | leaded private and and the | and the second second | nterptal reality pa | upper and the second | aption of the second second | Al a church is agles aig | and a superior | h <mark>iren an hanna an hanna an /mark> |
| -ou ubili | | | | | | | | | |
| Start 30.0 | MHz | | 1 | 3000 | 1 pts | I | | Sto | p 1.0 GHz |

| Att | el 20.00 dBm 30 dB | | | RBW 100 kH VBW 300 kH | | | | |
|----------------------------|-----------------------|-----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------|---------------|-------------------|
| Att Count 9/1 | | SWI | 255 ms 🖷 | ARM 300 KH | 2 Mode | Auto Sweep | | |
| 1Pk Max | | | | | | | | |
| | | | | | М | 1[1] | | 41.52 dE |
| 0 dBm | | | | | | | | |
| dBm | | | | | | | | |
| .0 dBm— | | | | | | | | |
| | | | | | | | | |
| io ubiii | 01 -15.270 | dBm | | | | | | |
| | -D1 -15.270 | dBm | | | | | | |
| 20 dBm— | -D1 -15.270 | dBm | | | | | | |
| 20 dBm | D1 -15.270 | dBm | | | | | | |
| 20 dBm | | dBm | | | | | | |
| 20 dBm 30 dBm 40 dBm | | dBm | | | | | | |
| 20 dBm | | dBm | | a la companya de la compa | | a thatas a that | | La stal burns |
| 20 dBm | M1 | dBm | | | | A ti natroport i la co | wind a window | Litest (Longer |



8.6 100kHz Bandwidth of band edges

| EUT: Op Condition: Test Specifica Comment: | | |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Spectrum | |
| | Ref Level 20.00 dBm Offset 1.00 dB RBW 100 | kHz |
| | Att 30 dB SWT 246.5 μs VBW 300 Count 300/300 | kHz Mode Auto FFT |
| | 1Pk View | |
| | 10 dBm | M1[1] 4.53 dBm 2.402190 GHz |
| | | M2[1] -45.76 dym 2.40000 0Hz |
| | 0 dBm | 2.40000 042 |
| | -10 dBm | |
| | -20 dBm | |
| | -30 dBm | |
| | | $\overline{7}$ |
| | -40 dBm | |
| | -50 dBm | along the W |
| | COUNTER when we were and a second of the sec | Martin Contraction of the Contra |
| | -70 dBm | |
| | | |
| | | 1 pts Stop 2.405 GHz |
| | Marker Type Ref Trc X-value Y-value | Function Function Result |
| | M1 1 2.40219 GHz 4.53 (M2 1 2.4 GHz -45.76 (| |
| | M3 1 2.39 GHz -56.22 0 | |
| | M4 1 2.399217 GHz -35.06 0 | iBm |
| | | |
| | Band edges | Limit |
| | | |
| | -35.06 dB | > 20dB |

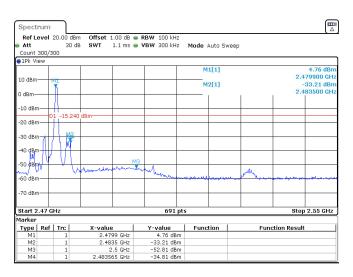


 \boxtimes Passed

Not Passed

100kHz Bandwidth of band edges

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2480MHz, DH5) FCC15.247(d), Conducted DC 5V



| Band edges | Limit |
|------------|--------|
| 34.81 dB | > 20dB |



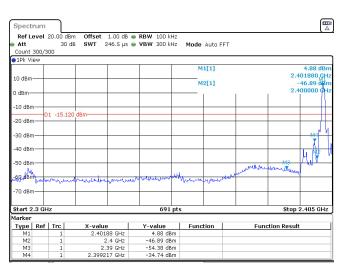
⊠ Passed

Not Passed

100kHz Bandwidth of band edges

| EUT: |
|---------------------|
| Op Condition: |
| Test Specification: |
| Comment: |

HG06608B-US Operated, TX Mode (2402MHz, 2DH5) FCC15.247(d), Conducted DC 5V



| Band edges | Limit |
|------------|--------|
| 34.74 dB | > 20dB |



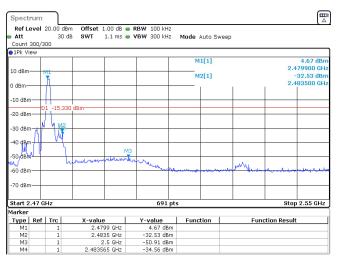
⊠ Passed

Not Passed

100kHz Bandwidth of band edges

| EUT: | HG0 |
|---------------------|------|
| Op Condition: | Oper |
| Test Specification: | FCC |
| Comment: | DC 5 |
| | |

IG06608B-US Operated, TX Mode (2480MHz, 2DH5) CC15.247(d), Conducted DC 5V



| Band edges | Limit |
|------------|--------|
| 34.56 dB | > 20dB |



8.7 Minimum. Number of Hopping Frequencies

| EUT: Op Condition: Test Specification: Comment: | HG06608B-US Operated, TX Mode (2402-2480MHz, DH5) FCC15.247(a)(1) DC 5V Test Result ⊠ Passed □ Not Passed |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| | Spectrum a |
| | Ref Level 30.00 dBm Offset 1.00 dB |
| | Att 40 dB SWT 1 ms VBW 300 kHz Mode Auto Sweep IPk View |
| | 20 dBm |
| | |
| | 10 ประกา |
| | D dam- |
| | -19,992 <u>6.4117476444644447414644664466446444444444</u> |
| | -20 dBm |
| | -B0 dBm |
| | 40 dBm |
| | -50 dBm |
| | -60 dBm- |
| | Start 2.4 GHz 691 pts Stop 2.4835 GHz |
| | |
| Γ | Hopping Channels Limit |
| | 79 ≥ 15 |



 \boxtimes Passed

Not Passed

Minimum. Number of Hopping Frequencies

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2402-2480MHz, 2DH5) FCC15.247(a)(1) DC 5V

| Spectrum | | | | | | | | | | |
|------------------|--------------------|-----------|-------------|--------------------------|----------|------------|-----------|----------|----------|------------|
| Ref Level Att | 30.00 dBm 40 dB | | 1.00 dB 👄 F | (BW 100 kH (BW 300 kH | | | | | | |
| 1Pk View | 40 GB | SWI | 1 ms 🖶 🕯 | BW 300 KH | 2 Mode | Auto Sweep | | | | |
| JIPK VIEW | | | | | | | | | | |
| | | | | | | | | | | |
| 20 dBm | | | | | | | | | | |
| | | | | | | | | | | |
| 10 dBm | | | | | | | | | | |
| ADAKKAA | AN MARK | ANA ANA A | UN WWW | ALANG. LA | NAMANA A | AANDAAAA | ANALANA | NANANAN | RUPY | |
| | | 11120100 | . <u>8</u> | <u> </u> | 11000100 | ALLANDA | 100809081 | aaanalka | AAAAA | 1 |
| 10 dBm | | | | | | | | | | |
| to abiii | | | | | | | | | | |
| -20 dBm | | | | | | | | | | |
| | | | | | | | | | | L |
| -30 dBm | | | | | | | | | | <u>h</u> . |
| | | | | | | | | | | -U |
| -40 dBm | | | - | | | | | | | 0. |
| | | | | | | | | | | |
| -50 dBm | | | | | | | | | | |
| | | | | | | | | | | |
| -60 dBm | | | | | | | | | | |
| | | | | | | | | | | |
| Start 2.4 G | Hz | | | 691 | pts | | | Stop 2. | .4835 GF | Hz |

| Hopping Channels | Limit |
|------------------|-------|
| 79 | ≥ 15 |



8.8 Minimum Hopping Channel Carrier Frequency Separation

| EUT: Op Condition: Test Specification: Comment: | HG06608B-US Operated, TX Mode (2441MHz, DH5) FCC15.247(a)(1) ☐ Not Passed DC 5V |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| | Spectrum 🛄 |
| | RefLevel 30.00 dBm Offset 1.00 dB ● RBW 100 kHz Att 40 dB SWT 18.9 µs ● VBW 300 kHz Mode Auto FFT Count 100/100 |
| | IPK View |
| | M1[1] 4-,74 dBm 2,44096222 GHZ |
| | 20 dBm D2[1] -0.02 dB |
| | 10 dBm |
| | |
| | D dBm |
| | 10.d8m |
| | |
| | -20 dBm- |
| | -30 dBm |
| | -40 dBm |
| | |
| | -50 dBm |
| | -60 dBm |
| | |
| | Start 2.4405 GHz 691 pts Stop 2.4425 GHz |
| | |
| | Chanel Separation Limit |
| | 1003 kHz 740 kHz |
| | |

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



 \boxtimes Passed

Not Passed

Minimum Hopping Channel Carrier Frequency Separation

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2441MHz, 2DH5) FCC15.247(a)(1) DC 5V

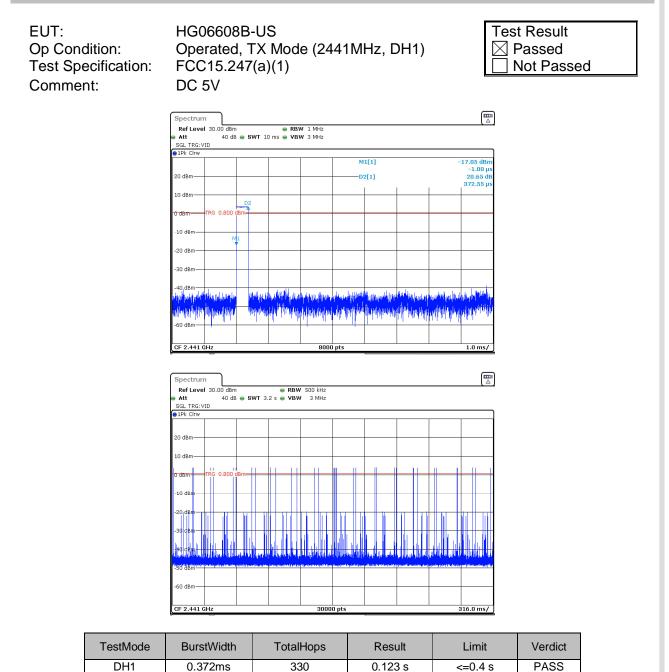
| Att 40 d Count 100/100 | | RBW 100 kHz VBW 300 kHz | Mode Auto FFT | |
|---------------------------|----------------------|------------------------------------------------------|---------------|---------------------------|
| 1Pk View | | | | |
| | | | M1[1] | 4.68 dBr 2.44118116 GH |
| 0 dBm | | | D2[1] | 0.03 d 1.00290 MH |
| 0 dBm | M1 | | | D2 |
| dBm | $\gamma\gamma\gamma$ | | | |
| 10 dBm | | | | |
| 20 dBm | | | | |
| 30 dBm | | | | |
| 40 dBm | | | | |
| 50 dBm | | | | |
| 60 dBm | | | | |

| Chanel Separation | Limit |
|-------------------|---------|
| 1003 kHz | 940 kHz |

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



8.9 Average Channel Occupancy Time





Passed

Not Passed

Average Channel Occupancy Time

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2441MHz, DH3) FCC15.247(a)(1) DC 5V

| Spectrum | | | |
|-----------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Ref Level 30.00 dBm | RBW 1 MHz | | · · · |
| Att 40 dB SWT SGL TRG:VID | 10 ms 🖷 VBW 3 MHz | | |
| 91Pk Cirw | | | |
| | | M1[1] | -3.55 dBm |
| | | | -1.00 µs |
| 20 dBm | | D2[1] | 7.16 dB |
| | | 1 1 | 1.62020 ms |
| 10 dBm | | | |
| | D2 | | |
| 0 dBm TRG 0.800 dBm | - | | |
| The second se | | | |
| -10 dBm | | | |
| | | | |
| -20 dBm | | | |
| | | | |
| -30 dBm | | | |
| | | | |
| -40 dBm; | | | |
| a find of the design of the | the case of a designed | ale (111) to de la basel de grades de pluj | فالمعطل البرابر الراعية والمتعادية |
| wate wat kiels at a | Abidi an and a | | a contrast that is a state |
| a particular y high particular | A THE REPORT OF A THE | (institution of the second second | Although the state of the second s |
| -60 dBm | | | |
| | | | |
| CF 2.441 GHz | 8000 | nte | 1.0 ms/ |
| 01 2.771 0112 | 8000 | pes | 1.0 ms/ |

| 1Pk Clrw | | | | | | | | | | _ | | | | | | | | | | |
|-----------|-----|-------|-----------------|-----------|----------------------|------|-----|----|-----|----|---|----------|------|---|---|---|---|-----|---|------|
| :0 dBm | | | | _ | | | | | | | | | | | | | | | - | |
| .0 dBm | | | | _ | | | | | | | | | | | | | | | + | |
| dBm | TRG | 0.800 | dBm | | | | | - | | + | | \vdash | _ | - | - | + | | | + | |
| 10 dBm | | | | _ | | | | | | | | | | | _ | + | | | | |
| 20 dBm— | | | | | | | _ | | | | | | | | | | _ | | | |
| 3C d3m- | | | | | | | | | | | | | | | | | | | | |
| | | Ì. | | | ц | | | | | | | | | | | | | | | |
| 4C d Brit | 1.1 | Milia | aria u | J. www. I | (dharaa aantaataa | 1.10 | ١., | μį | 1.0 | I. | 4 | n. | vill | | | | | Щ., | | 1,1 |

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



Passed

Not Passed

Average Channel Occupancy Time

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2441MHz, DH5) FCC15.247(a)(1) DC 5V

| Spectrum | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------|-------------------------------------|
| Ref Level 30.00 dBm | RBW 1 MHz | | |
| Att 40 dB SWT 10 ms | VBW 3 MHz | | |
| SGL TRG: VID | | | |
| ●1Pk Clrw | | | |
| | | M1[1] | -0.43 dBm |
| | | 1011 | -1.00 µs |
| 20 dBm | | D2[1] | 3.99 dB |
| | | 1 1 | 2.86036 ms |
| 10 dBm | | | |
| M | D2 | | |
| 0 dBm TRG 0.800 dBm | 4 | | |
| | | | |
| -10 dBm | | | |
| -10 dbin | | | |
| | | | |
| -20 dBm | | | |
| | | | |
| -30 dBm | | | |
| | | | |
| -40 dBm | | | |
| all all the state and the state of the state | store in the line is the state | a statute interaction of statute and a | ell president balante block (1986) |
| | | | |
| and the second | the ye | Allapadens Astronomical Aug | ha pelanya hitika di pang kaladi ka |
| -60 dBm | | | 1 1 |
| | | | |
| | | | |
| CF 2.441 GHz | 8000 pts | | 1.0 ms/ |

| Spectrur | | | | | | | | | | | | | | | |
|------------|---------|-----------|-----------|----------|--------|--------------------------------------|------|-----------------|----|------------------|---------------------------|------------------|---------------------|-------------------|-----------------------|
| Ref Leve | | | | wт з | | RBW VBW | | 00 kHz 3 MHz | | | | | | | |
| SGL TRG: \ | | | | | | | | | | | | | | | |
| 1Pk Clrw | | | | | | | | | Т | | | | | | |
| 20 dBm | | | | | - | | | | + | | | | | | |
| LO dBm | | | | | | | | | + | | | | | | |
| dBm | TRG C | .800 | dBm— | - | | | | - | | | | | | | - |
| 10 dBm- | | | | | | | | | | | | | | | - |
| 20 dBm- | | 1 | | | | | 1 | | | 1 | 1 | | | | |
| 30 dBm — | | | h | .1 | | <u> </u> | | | | | | 1 | . I. | | |
| ‡⊒ iBπr — | | 6.11 | la lui | UU. | t III, | Laine Juliu | γIJa | البولي | | 1 A LULI | and the mail | a political | N Dat 10 Da | ll _{est} | in the |
| sid dem | na la p | and given | uturiti), | Physical | 110 | et et en de la s | 10.0 | deres provide | Y | djamenta data pr | أحادر ووار المحمد والألبي | and partition of | dallin and defined. | alfopor | ul _{ta} tina |
| | | | | | | | | | | | | | | | |
| 60 dBm | | | | | | | | | l | | | | | | |
| CF 2.441 (| GHz | | | | | | I | 300 |)0 | pts | I | I | | 316.0 |) ms/ |

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

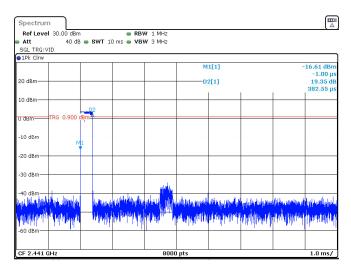


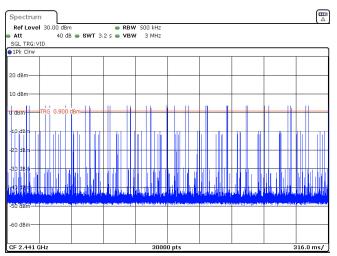
Passed

Not Passed

Average Channel Occupancy Time

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2441MHz, 2DH1) FCC15.247(a)(1) DC 5V





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

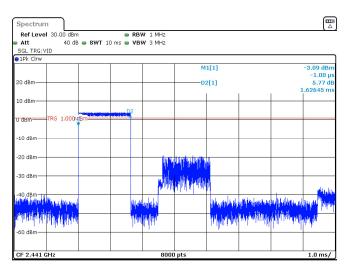


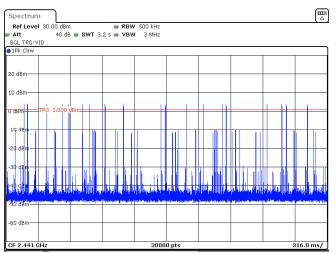
⊠ Passed

Not Passed

Average Channel Occupancy Time

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2441MHz, 2DH3) FCC15.247(a)(1) DC 5V





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



⊠ Passed

Not Passed

Average Channel Occupancy Time

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode (2441MHz, 2DH5) FCC15.247(a)(1) DC 5V

Spectrum
 Att
 40 db
 SWT
 10 ms
 VBW
 3 MHz
 9 MHz M1[1] 0.09 dBm -1.00 µs 2.57 dE 2.86661 ms 20 dBm D2[1] 10 dBrr U dBm-RG 0.900 -10 dBm -20 dBrr and the second secon -30 dBm line lacht l 40 dBm n de la cale dia del cu del al يلد بالمارة sta profiliti pi plathur protection 60 dBm-CF 2.441 GHz 8000 pts 1.0 ms/

| | al 30.00 dB | m 18 🕳 S' | | | RB | | | | | | | | | | | | | | | | | | |
|-----------------|-------------------------------------------------|--------------|----------|------------|---------|-------|-------|--------|----|-------|------|-------|---------|------|----------|-------|--------|-----|---------|---------|-----------|--------|-----|
| Att SGL TRG: | | B 🖷 S | WT 3 | 2 S 🖷 | N AR | w | 31 | MHz | | | | | | | | | | | | | | | |
| 1Pk Cirw | 1 | _ | | | | Т | | | _ | | | _ | | | _ | | | | | | _ | _ | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| :0 dBm | | | | | | 1 | | | T | | | | | | | | | 1 | | | F | | |
| .0 dBm | | | | | | | | | | | | | | | \vdash | | | + | | | \vdash | | |
| | | | | | | | | | | | | | | n. | | 1 | | | | i. | | | |
| dBm- | TRG 0.900 | asm= | | | | | | | | | | | | | | | | | | T | | | |
| 10 dBm— | | | | | | | | - | | | | | _ | | | + | | + | | + | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 20 dBm— | | | | | | | | | Π | t | | | | Ħ | \top | T | | T | | T | \square | | |
| 30 dBm— | | | | | 11. | | | | | + | | | _ | ₩ | | | | | | | | - | |
| | | | | . 1 | Ш | | | П., | | Ι. | | | | H. | | Ш | | | | | | | |
| HI, HED T | | 1.14 | np I | 140 | | | | | М | ų, | | 1,4 | 21. 115 | | | | a lla | | | | 4 | r. | J. |
| 50 dBm | n a para da | Section and | het flas | an America | hybild. | da ya | ann a | daaraa | 44 | u) er | ыдыя | puber | PUIA | ushi | le prim | as la | a digi | 444 | and the | -line p | plage. | (pedd) | Ab- |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 50 dBm— | | | | | | - | | | + | | | - | | | - | | | + | | | + | | |

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



8.10 Antenna Requirement

EUT: Op Condition: Test Specification: Comment: HG06608B-US Operated, TX Mode FCC15.203 & 15.247(b) 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 MHz | QP Limit dBμV | AV Limit dBµV |
|------------------|------------------|------------------|
| 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

1. Use the following spectrum analyzer settings:

RBW=100K, VBW \geq 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

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 MHz | Limit W | Limit dBm |
|--------------|------------------------|------------|--------------|
| | 2400-2483.5 | ≤1 | ≤30 |
| For e.i r.p: | | | |
| | Frequency Range MHz | Limit W | Limit dBm |
| | 2400-2483.5 | ≤4 | ≤36 |



9.5 Spurious Emissions at Antenna Terminals

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 $RBW = 100 \text{ kHz}, VBW \ge RBW$, 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 |



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 \geq 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



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) \ge 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.

Limit

Limit

 \geq 2/3 of 20dB bandwidth of hopping channel



9.9 Average Channel Occupancy Time

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) × (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 \leq 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 * $\sqrt{2.402GHz} \le 3.0$ Numeric threshold (2402MHz) $\le 9.678mW$
- >> Numeric threshold (2441MHz), mW / 5mm * $\sqrt{2.440}$ GHz \leq 3.0 Numeric threshold (2441MHz) \leq 9.602mW
- >> Numeric threshold (2480MHz), mW / 5mm * $\sqrt{2.480GHz} \le 3.0$ Numeric threshold (2480MHz) $\le 9.525mW$
- >> 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:

Eric LI EMC Project Manager

Prepared by:

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.

Date: 18 May 2022 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)

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