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Report Template Version: V04 Report Template Revision Date: 2018-07-06

TEST REPORT

Report No.: CQASZ20201201530E-01

Applicant: Tech4home International, Lda

Address of Applicant: Startup Madeira, Campus da Penteada 9020-105 Funchal Portugal

Equipment Under Test (EUT):

EUT Name: Remote Control Unit

Model No.: T4HiU2002 32k Gen8 Lite for ADO, T4HiU2001 32k Gen8 Lite for HOT

Test Model No.: T4HiU2002 32k Gen8 Lite for ADO **Brand Name:** Tech4home International, Lda

FCC ID: 2AYLW-G8LTBLE01

Standards: 47 CFR Part 15, Subpart C

Date of Receipt: 2020-12-23

Date of Test: 2020-12-23 to 2020-12-30

Date of Issue: 2020-12-30
Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above

7.

| Tested By: | Imy lou | |
|--------------|--------------|--|
| | (Tiny You) | |
| Reviewed By: | Ans lin | |
| • | (Ares Liu) | |
| Approved By: | Sheek, Luo | |
| | (Sheek Luo) | |



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.





1 Version

Revision History Of Report

| Report No. | Version | Description | Issue Date |
|----------------------|---------|----------------|------------|
| CQASZ20201201530E-01 | Rev.01 | Initial report | 2020-12-30 |





2 Test Summary

| Test Item | Test Requirement | Test method | Result |
|---|--|------------------|--------|
| Antenna Requirement | 47 CFR Part 15, Subpart C Section 15.203/15.247 (c) | ANSI C63.10 2013 | PASS |
| AC Power Line Conducted Emission | 47 CFR Part 15, Subpart C Section 15.207 | ANSI C63.10 2013 | N/A |
| Conducted Peak Output Power | 47 CFR Part 15, Subpart C Section 15.247 (b)(3) | ANSI C63.10 2013 | PASS |
| 6dB Occupied Bandwidth | 47 CFR Part 15, Subpart C Section 15.247 (a)(2) | ANSI C63.10 2013 | PASS |
| Power Spectral Density | 47 CFR Part 15, Subpart C Section 15.247 (e) | ANSI C63.10 2013 | PASS |
| Band-edge for RF Conducted Emissions | 47 CFR Part 15, Subpart C Section 15.247(d) | ANSI C63.10 2013 | PASS |
| RF Conducted Spurious Emissions | 47 CFR Part 15, Subpart C Section 15.247(d) | ANSI C63.10 2013 | PASS |
| Radiated Spurious Emissions | 47 CFR Part 15, Subpart C Section 15.205/15.209 | ANSI C63.10 2013 | PASS |
| Restricted bands around fundamental frequency (Radiated Emission) | 47 CFR Part 15, Subpart C Section 15.205/15.209 | ANSI C63.10 2013 | PASS |

N/A: When the EUT is powered by DC , So Not Applicable

Model No.: T4HiU2002 32k Gen8 Lite for ADO, T4HiU2001 32k Gen8 Lite for HOT

Only the model T4HiU2002 32k Gen8 Lite for ADO was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance, pack and model name.



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4 General Information

4.1 Client Information

| Applicant: | Tech4home International, Lda |
|--------------------------|---|
| Address of Applicant: | Startup Madeira, Campus da Penteada 9020-105 Funchal Portugal |
| Manufacturer: | Jiangsu Huitong Group Co.,Ltd. |
| Address of Manufacturer: | No.24, Block 2,Taohuawu New District Zhenjiang Jiangsu P.R.C |
| Factory: | Jiangsu Huitong Group Co.,Ltd. |
| Address of Factory: | No.24, Block 2,Taohuawu New District Zhenjiang Jiangsu P.R.C |

4.2 General Description of EUT

| Product Name: | Remote Control Unit |
|-----------------------|--|
| All Model No.: | T4HiU2002 32k Gen8 Lite for ADO, T4HiU2001 32k Gen8 Lite for HOT |
| Test Model No.: | T4HiU2002 32k Gen8 Lite for ADO |
| Trade Mark: | Tech4home International, Lda |
| Hardware Version: | GWA7.820.1071-5(V0.0) |
| Software Version: | 4HiU2002_32k_0231.01.01_APP_PLUS_BIM_PLUS_UDB_18.03.08.02 |
| Operation Frequency: | 2402MHz~2480MHz |
| Bluetooth Version: | V4.0 |
| Modulation Type: | GFSK |
| Transfer Rate: | 1Mbps |
| Number of Channel: | 40 |
| Product Type: | ☐ Mobile ☐ Portable ☐ Fix Location |
| Test Software of EUT: | Non_Signaling_Test_Tool (manufacturer declare) |
| Antenna Type: | PCB antenna |
| Antenna Gain: | 3.3dBi |
| EUT Power Supply: | 2XAAA battery:DC 3V |



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| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 0 | 2402MHz | 10 | 2422MHz | 20 | 2442MHz | 30 | 2462MHz |
| 1 | 2404MHz | 11 | 2424MHz | 21 | 2444MHz | 31 | 2464MHz |
| 2 | 2406MHz | 12 | 2426MHz | 22 | 2446MHz | 32 | 2466MHz |
| 3 | 2408MHz | 13 | 2428MHz | 23 | 2448MHz | 33 | 2468MHz |
| 4 | 2410MHz | 14 | 2430MHz | 24 | 2450MHz | 34 | 2470MHz |
| 5 | 2412MHz | 15 | 2432MHz | 25 | 2452MHz | 35 | 2472MHz |
| 6 | 2414MHz | 16 | 2434MHz | 26 | 2454MHz | 36 | 2474MHz |
| 7 | 2416MHz | 17 | 2436MHz | 27 | 2456MHz | 37 | 2476MHz |
| 8 | 2418MHz | 18 | 2438MHz | 28 | 2458MHz | 38 | 2478MHz |
| 9 | 2420MHz | 19 | 2440MHz | 29 | 2460MHz | 39 | 2480MHz |

Note

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel | Frequency |
|----------------------------|-----------|
| The lowest channel (CH0) | 2402MHz |
| The middle channel (CH19) | 2440MHz |
| The highest channel (CH39) | 2480MHz |

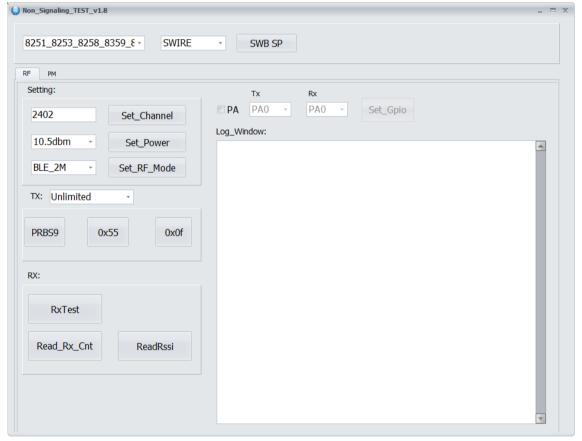


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4.3 Additional Instructions

| EUT Test Software Settings: | | | | | |
|---|---|--|--|--|--|
| Mode: | Special software is used. ☐Through engineering command into the engineering mode. engineering command: *#*#3646633#*#* | | | | |
| EUT Power level: | Class2 (Power level is built-in set para selected) | Class2 (Power level is built-in set parameters and cannot be changed and selected) | | | |
| Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT. | | | | | |
| Mode Channel Frequency(MHz) | | | | | |
| | СНО | 2402 | | | |
| GFSK | CH19 2440 | | | | |
| | CH39 | CH39 2480 | | | |

Run Software:







4.4 Test Environment

| Operating Environment | : |
|------------------------|--|
| Radiated Emissions: | |
| Temperature: | 25.1 °C |
| Humidity: | 54 % RH |
| Atmospheric Pressure: | 1009mbar |
| Radio conducted item t | est (RF Conducted test room): |
| Temperature: | 25.0 °C |
| Humidity: | 53 % RH |
| Atmospheric Pressure: | 1009mbar |
| Test mode: | |
| Transmitting mode: | Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT. Note: In the process of transmitting of EUT, the duty cycle >98%. |

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

| | Supplied by |
|---------------------------------|-------------|
| PC Lenovo ThinkPad E450c FCC ID | CQA |

2) Cable

| Cable No. | Description | Manufacturer | Cable Type/Length | Supplied by |
|-----------|-------------|--------------|-------------------|-------------|
| / | / | / | / | / |





4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** guality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

| No. | Item | Uncertainty | Notes |
|-----|------------------------------------|--------------------|-------|
| 1 | Radiated Emission (Below 1GHz) | 5.12dB | (1) |
| 2 | Radiated Emission (Above 1GHz) | 4.60dB | (1) |
| 3 | Conducted Disturbance (0.15~30MHz) | 3.34dB | (1) |
| 4 | Radio Frequency | 3×10 ⁻⁸ | (1) |
| 5 | Duty cycle | 0.6 %. | (1) |
| 6 | Occupied Bandwidth | 1.1% | (1) |
| 7 | RF conducted power | 0.86dB | (1) |
| 8 | RF power density | 0.74 | (1) |
| 9 | Conducted Spurious emissions | 0.86dB | (1) |
| 10 | Temperature test | 0.8℃ | (1) |
| 11 | Humidity test | 2.0% | (1) |
| 12 | Supply voltages | 0.5 %. | (1) |
| 13 | Frequency Error | 5.5 Hz | (1) |

⁽¹⁾This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.7 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.8 Test Facility

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.9 Deviation from Standards

None.

4.10Other Information Requested by the Customer

None.





4.11 Equipment List

| Test Equipment | Manufacturer | Model No. | Instrument No. | Calibration Date | Calibration Due Date |
|-------------------------------|--------------|----------------------------|-------------------|---------------------|-------------------------|
| EMI Test Receiver | R&S | ESR7 | CQA-005 | 2020/10/25 | 2021/10/24 |
| Spectrum analyzer | R&S | FSU26 | CQA-038 | 2020/10/25 | 2021/10/24 |
| Preamplifier | MITEQ | AFS4-00010300-18- 10P-4 | CQA-035 | 2020/10/25 | 2021/10/24 |
| Preamplifier | MITEQ | AMF-6D-02001800- 29-20P | CQA-036 | 2020/10/25 | 2021/10/24 |
| Preamplifier | EMCI | EMC184055SE | CQA-089 | 2020/9/25 | 2021/9/24 |
| Loop antenna | Schwarzbeck | FMZB1516 | CQA-060 | 2020/10/21 | 2021/10/20 |
| Bilog Antenna | R&S | HL562 | CQA-011 | 2020/9/26 | 2021/9/25 |
| Horn Antenna | R&S | HF906 | CQA-012 | 2020/9/26 | 2021/9/25 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | CQA-088 | 2020/9/25 | 2021/9/24 |
| Coaxial Cable (Above 1GHz) | CQA | N/A | C007 | 2020/9/26 | 2021/9/25 |
| Coaxial Cable (Below 1GHz) | CQA | N/A | C013 | 2020/9/26 | 2021/9/25 |
| Antenna Connector | CQA | RFC-01 | CQA-080 | 2020/9/26 | 2021/9/25 |
| RF cable(9KHz~40GHz) | CQA | RF-01 | CQA-079 | 2020/9/26 | 2021/9/25 |
| Power divider | MIDWEST | PWD-2533-02-SMA- 79 | CQA-067 | 2020/9/26 | 2021/9/25 |

Test software:

| | Manufacturer | Software brand |
|-----------------------------------|--------------|----------------|
| Radiated Emissions test software | Tonscend | JS1120-3 |
| Conducted Emissions test software | Audix | e3 |
| RF Conducted test software | Audix | e3 |

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.





5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

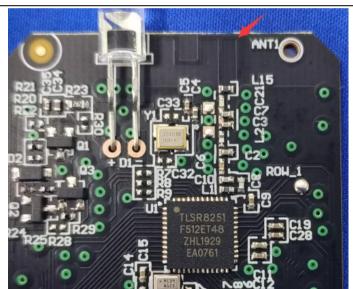
15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

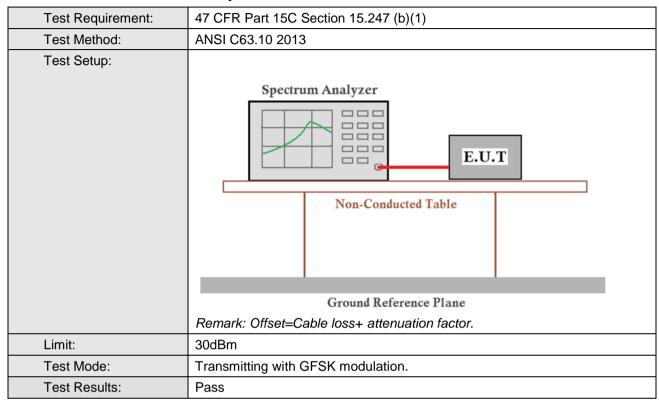
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is PCB antenna. The best case gain of the antenna is 3.3dBi.

5.2 Conducted Peak Output Power

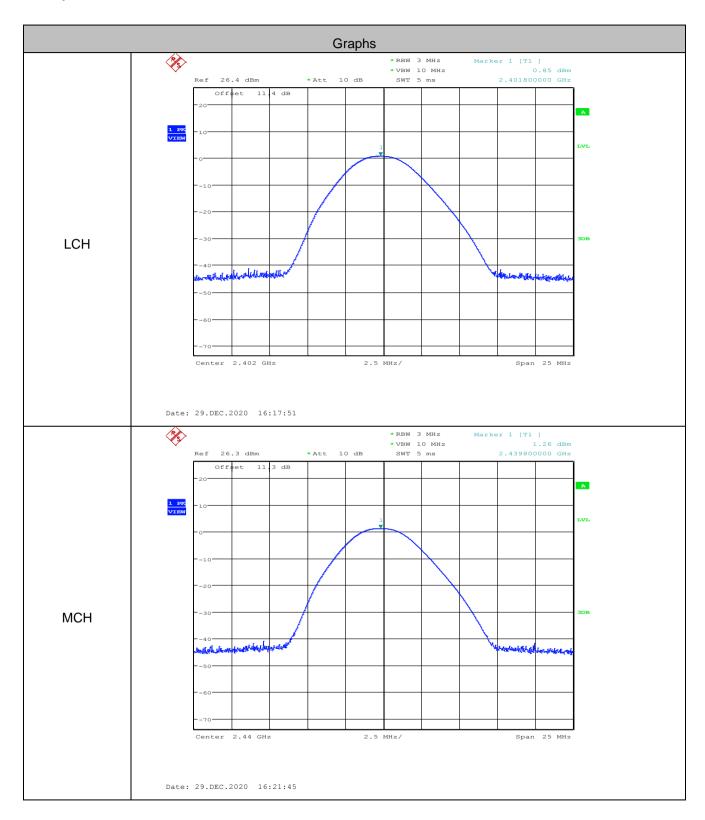


Measurement Data

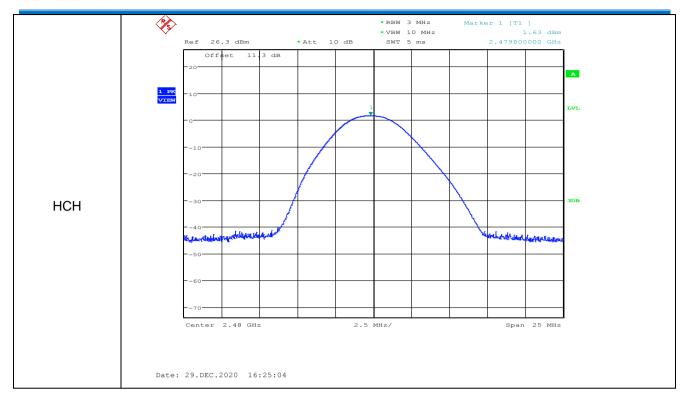
| | GFSK mode | | | | | | | |
|--------------|-------------------------|-------------|--------|--|--|--|--|--|
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result | | | | | |
| Lowest | 0.85 | 30.00 | Pass | | | | | |
| Middle | 1.26 | 30.00 | Pass | | | | | |
| Highest | 1.63 | 30.00 | Pass | | | | | |



Test plot as follows:

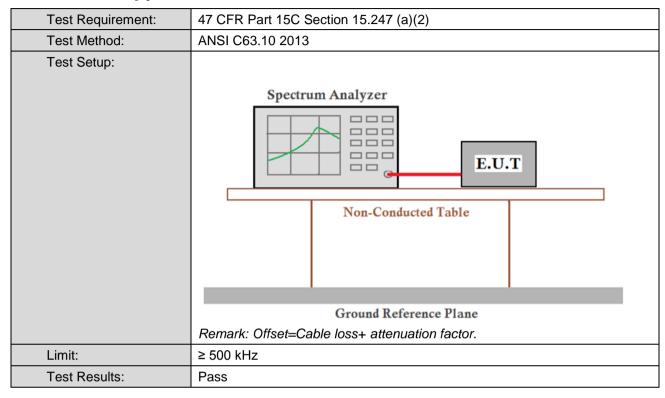








5.3 6dB Occupy Bandwidth

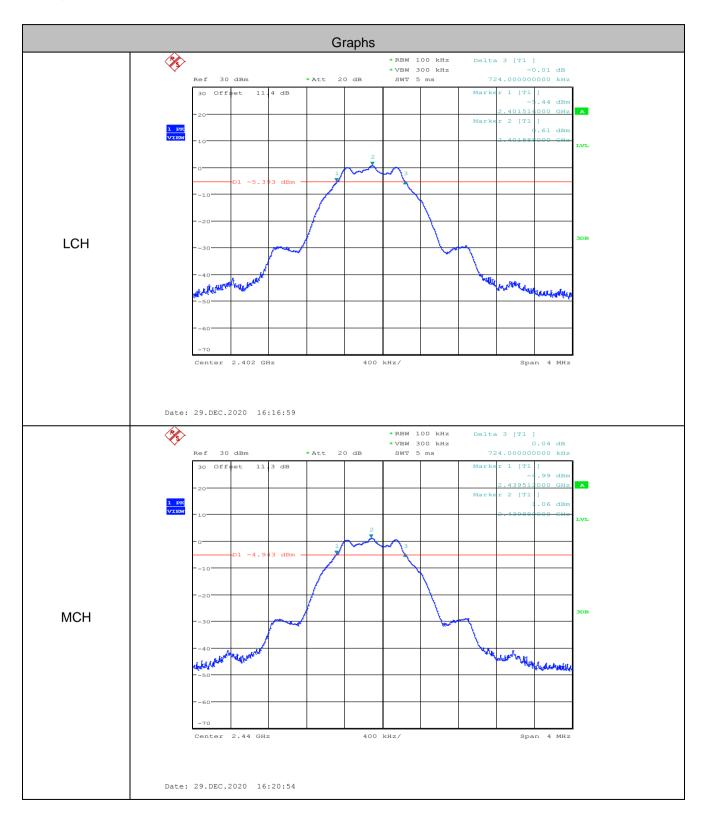


Measurement Data

| | GFSK mode | | | | | | | |
|--------------|----------------------------|-------------|--------|--|--|--|--|--|
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (MHz) | Result | | | | | |
| Lowest | 0.724 | ≥0.5 | Pass | | | | | |
| Middle | 0.724 | ≥0.5 | Pass | | | | | |
| Highest | 0.724 | ≥0.5 | Pass | | | | | |



Test plot as follows:



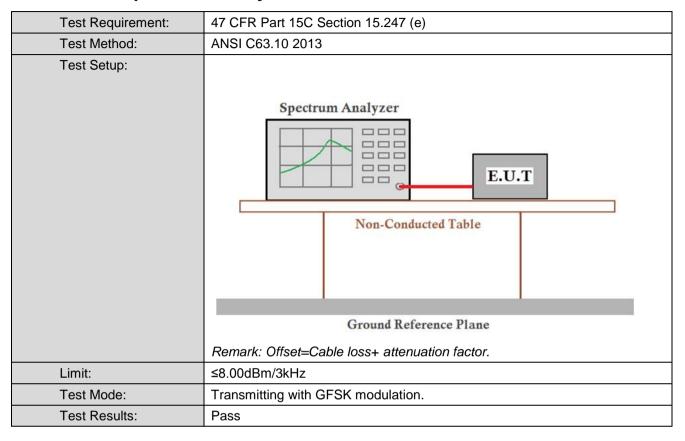








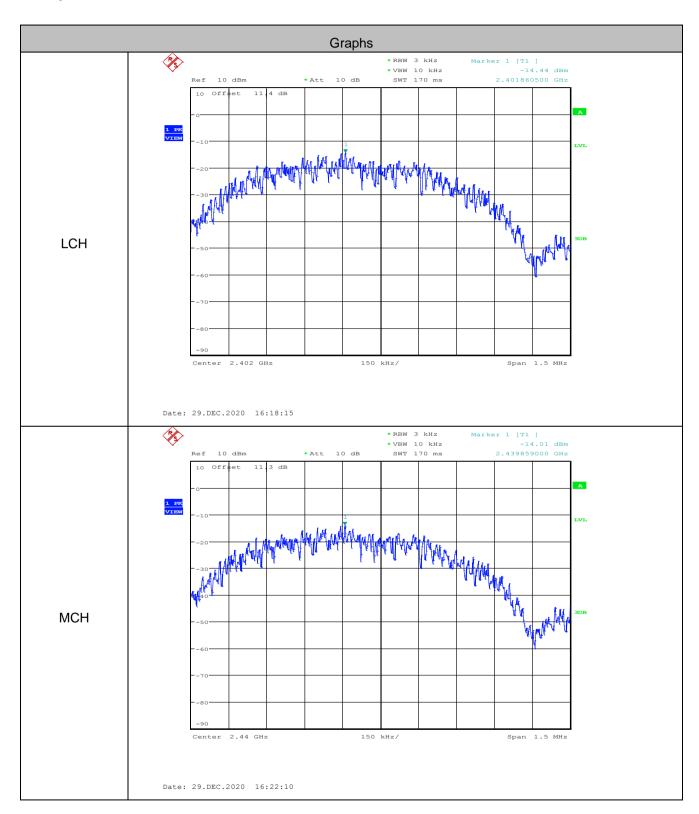
5.4 Power Spectral Density



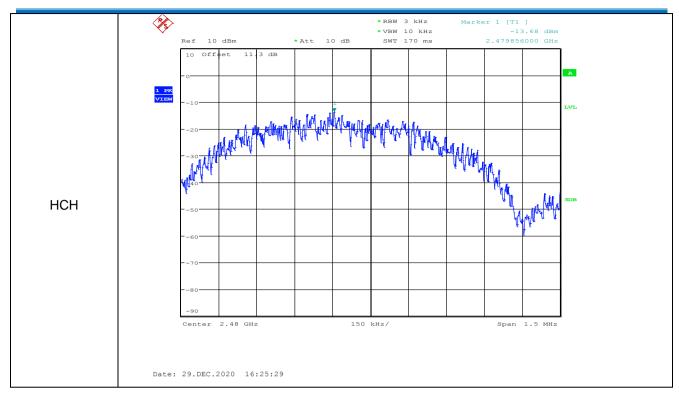
Measurement Data

| Weasurement Data | | | | | | | | |
|------------------|-----------------------------------|------------------|--------|--|--|--|--|--|
| | GFSK mode | | | | | | | |
| Test channel | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result | | | | | |
| Lowest | -14.440 | ≤8.00 | Pass | | | | | |
| Middle | -14.010 | ≤8.00 | Pass | | | | | |
| Highest | -13.680 | ≤8.00 | Pass | | | | | |

Test plot as follows:



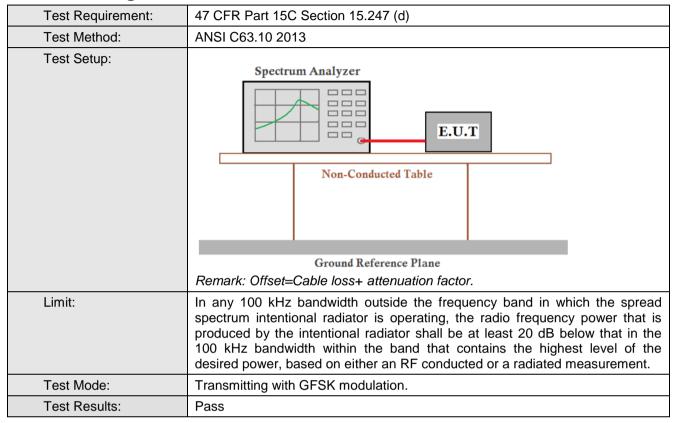






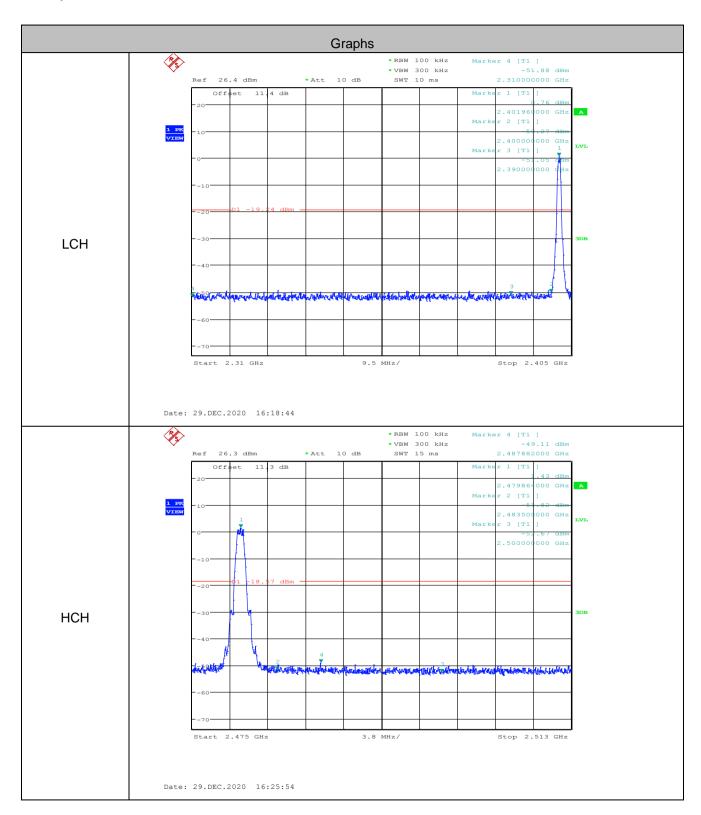


5.5 Band-edge for RF Conducted Emissions



| GFSK mode | GFSK mode | | | | | | | | | |
|-----------|----------------|---------------------|------------|--------|--|--|--|--|--|--|
| Test | | | | | | | | | | |
| channel | Frequency(MHz) | Emission Level(dBm) | Limit(dBm) | Result | | | | | | |
| Lowest | 2400 | -50.270 | -19.24 | Pass | | | | | | |
| Highest | 2483.5 | -51.820 | -18.57 | Pass | | | | | | |

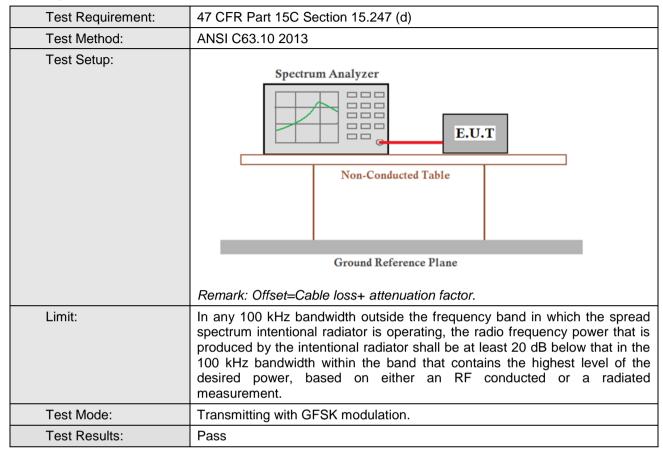
Test plot as follows:





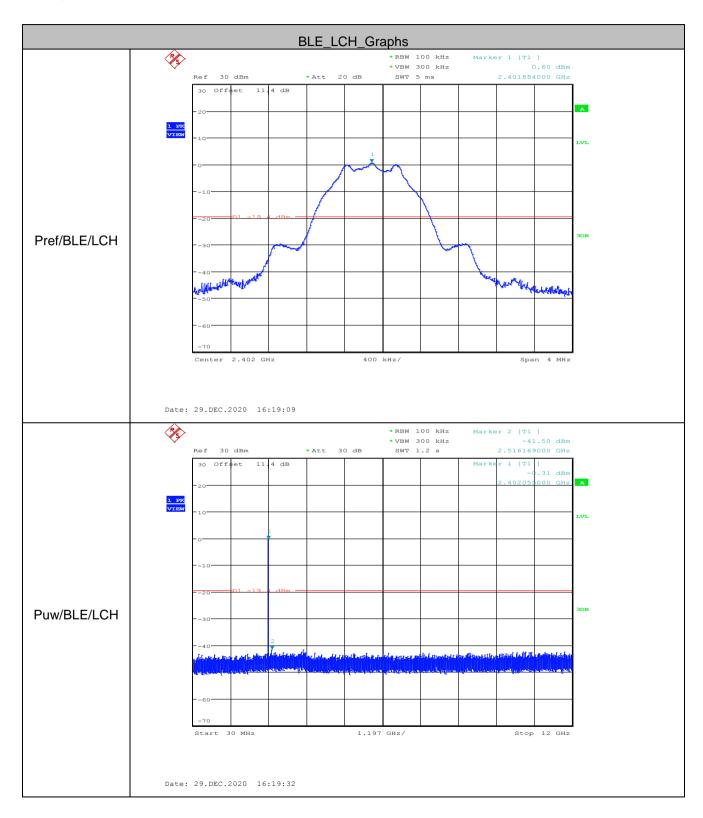


5.6 Spurious RF Conducted Emissions

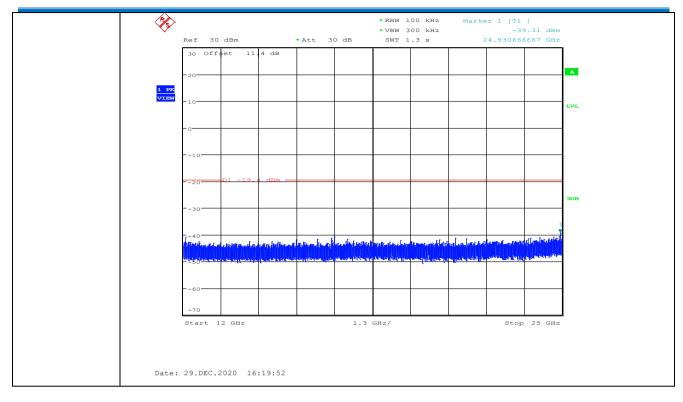




Test plot as follows:

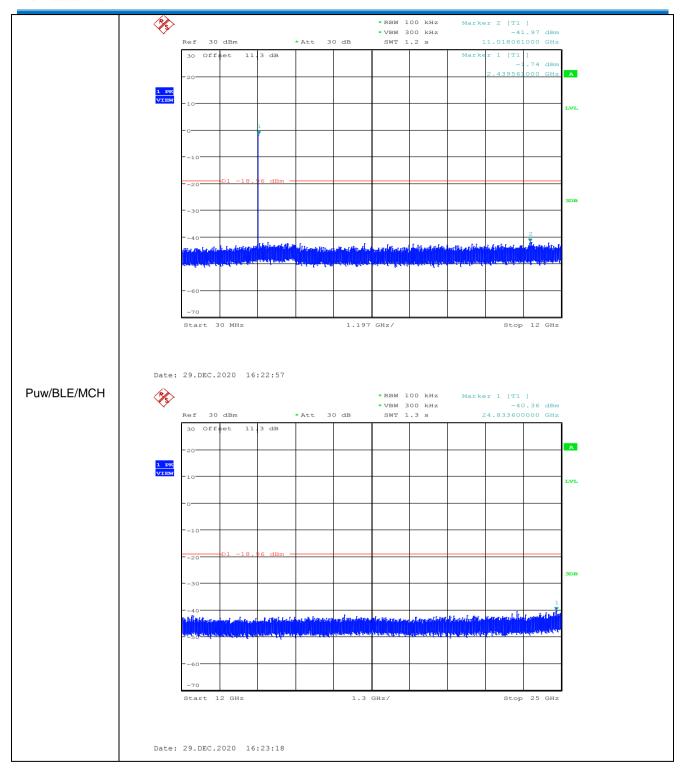




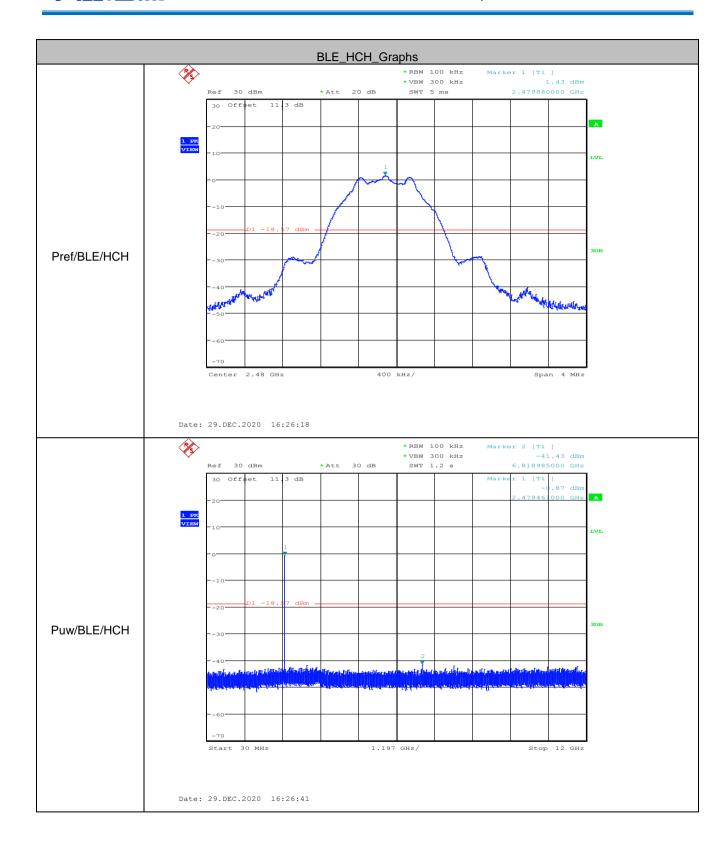






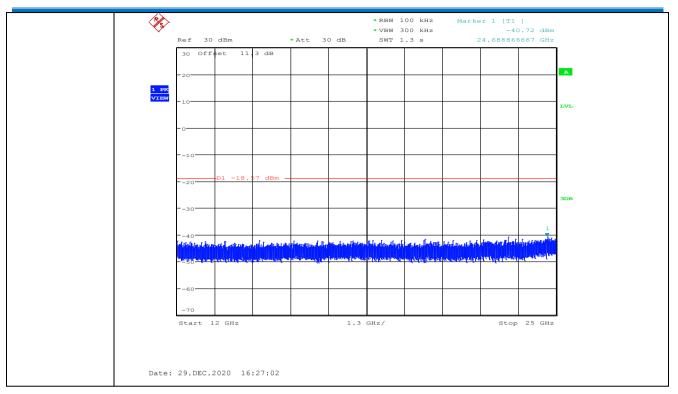








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Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



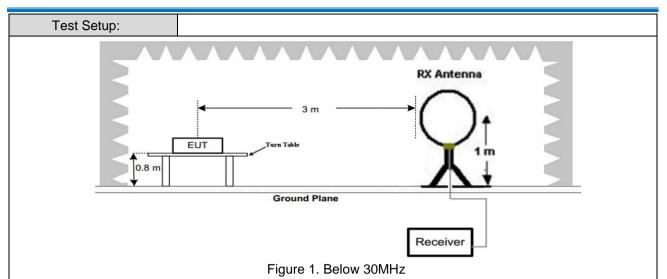


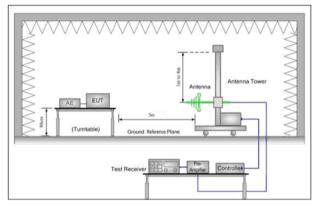
5.7 Radiated Spurious Emission & Restricted bands

| 5.7.1 Spurious Emissions | | | | | | | | | |
|--------------------------|--|--|--------------------------------|------------------------|----------|------------|----------------------------|--|--|
| Test Requirement: | 47 CFR Part 15C Secti | on 1 | 5.209 and 15 | .205 | | | | | |
| Test Method: | ANSI C63.10 2013 | | | | | | | | |
| Test Site: | Measurement Distance | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | | | | |
| Receiver Setup: | Frequency Detect | | Detector | RBW | | VBW | Remark | | |
| | 0.009MHz-0.090MHz | | Peak | 10kHz | Z | 30kHz | Peak | | |
| | 0.009MHz-0.090MH | z | Average | 10kHz | <u>z</u> | 30kHz | Average | | |
| | 0.090MHz-0.110MH | Z | Quasi-peak | 10kHz | <u>z</u> | 30kHz | Quasi-peak | | |
| | 0.110MHz-0.490MH | Z | Peak | 10kHz | <u>z</u> | 30kHz | Peak | | |
| | 0.110MHz-0.490MH | Z | Average | 10kHz | Z | 30kHz | Average | | |
| | 0.490MHz -30MHz Quasi-p | | | 10kHz | Z | 30kHz | Quasi-peak | | |
| | 30MHz-1GHz | | Quasi-peak | 100 kHz | | 300kHz | Quasi-peak | | |
| | Abovo 1CHz | | Peak | 1MHz | <u>'</u> | 3MHz | Peak | | |
| | Above 1GHz | | Peak | 1MHz | <u>-</u> | 10Hz | Average | | |
| Limit: | Frequency | | eld strength crovolt/meter) | Limit (dBuV/m) | | Remark | Measuremen distance (m) | | |
| | 0.009MHz-0.490MHz | 2 | 400/F(kHz) | ı | | - | 300 | | |
| | 0.490MHz-1.705MHz | 24 | 1000/F(kHz) | ı | | - | 30 | | |
| | 1.705MHz-30MHz | | 30 | ı | | - | 30 | | |
| | 30MHz-88MHz | | 100 | 40.0 | Q | uasi-peak | 3 | | |
| | 88MHz-216MHz | | 150 | 43.5 | Q | uasi-peak | 3 | | |
| | 216MHz-960MHz | | 200 | 46.0 | Q | uasi-peak | 3 | | |
| | 960MHz-1GHz 500 | | 500 | 54.0 | Q | uasi-peak | 3 | | |
| | Above 1GHz 500 | | 54.0 | | Average | 3 | | | |
| | Note: 15.35(b), frequency emissions is limit applicable to the epeak emission level race | 20d quip | IB above the loment under t | maximum est. This p | per | mitted ave | rage emission | | |



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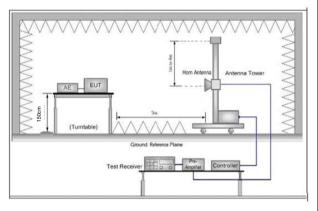


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height 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

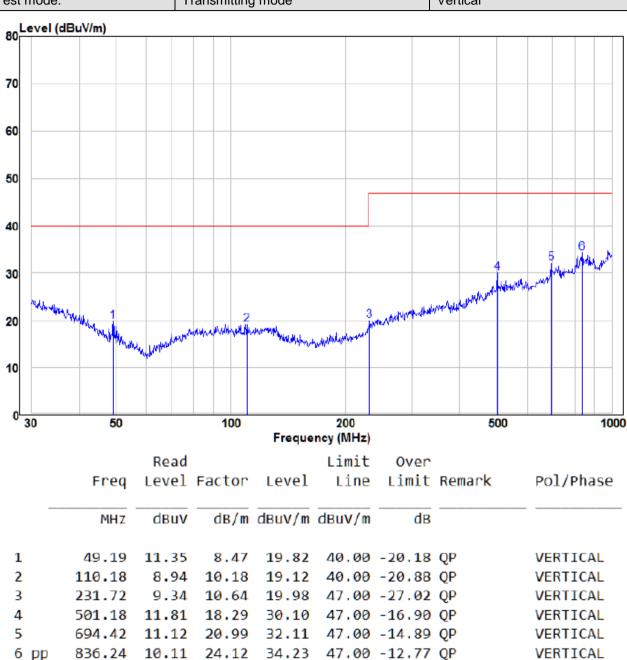


| | measurement. |
|------------------|--|
| | d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified |
| | Bandwidth with Maximum Hold Mode. |
| | f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) |
| | h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. |
| | i. Repeat above procedures until all frequencies measured was complete. |
| Exploratory Test | Transmitting with GFSK modulation. |
| Mode: | Transmitting mode |
| Final Test Mode: | Transmitting with GFSK modulation. |
| | For below 1GHz part, through pre-scan, the worst case is the highest channel. |
| | Only the worst case is recorded in the report. |
| Test Results: | Pass |

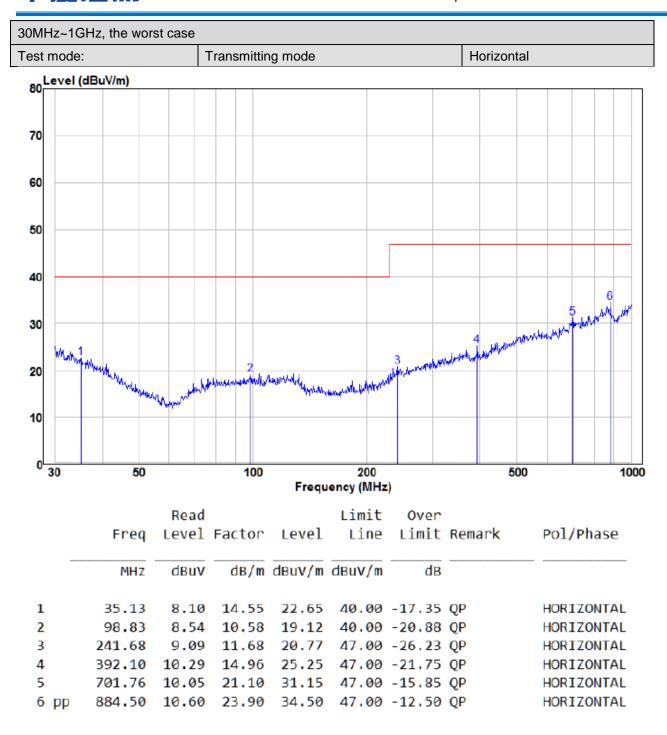




| Radiated Emission below 1GHz | | | | | |
|---------------------------------------|--|--|--|--|--|
| 30MHz~1GHz, the worst case | | | | | |
| Test mode: Transmitting mode Vertical | | | | | |











Transmitter Emission above 1GHz

| Worse case mode: | | GFSK | | Test chann | el: | Lowest | |
|------------------|------------------|--------|-------------------|------------|--------|------------------|-----------|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Over | Detector Type | Ant. Pol. |
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | | H/V |
| 2390 | 55.76 | -9.2 | 46.56 | 74 | -27.44 | Peak | Н |
| 2400 | 56.90 | -9.39 | 47.51 | 74 | -26.49 | Peak | Н |
| 4804 | 51.74 | -4.33 | 47.41 | 74 | -26.59 | Peak | Н |
| 7206 | 51.07 | 1.01 | 52.08 | 74 | -21.92 | Peak | Н |
| 2390 | 53.80 | -9.2 | 44.60 | 74 | -29.40 | Peak | V |
| 2400 | 51.96 | -9.39 | 42.57 | 74 | -31.43 | Peak | V |
| 4804 | 53.79 | -4.33 | 49.46 | 74 | -24.54 | Peak | V |
| 7206 | 50.33 | 1.01 | 51.34 | 74 | -22.66 | Peak | V |

| Worse case mode: | | GFSK | | Test channel: | | Middle | |
|------------------|------------------|--------|-------------------|---------------|--------|------------------|-----------|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Over | Detector Type | Ant. Pol. |
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | | H/V |
| 4880 | 52.30 | -4.11 | 48.19 | 74 | -25.81 | peak | Н |
| 7320 | 49.87 | 1.51 | 51.38 | 74 | -22.62 | peak | Н |
| 4880 | 52.76 | -4.11 | 48.65 | 74 | -25.35 | peak | V |
| 7320 | 50.46 | 1.51 | 51.97 | 74 | -22.03 | peak | V |

| Worse case mode: | | GFSK | | Test channel: | | Highest | |
|------------------|------------------|--------|-------------------|---------------|--------|------------------|-----------|
| Frequency | Meter Reading | Factor | Emission Level | Limits | Over | Detector Type | Ant. Pol. |
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | | H/V |
| 2483.5 | 56.87 | -9.29 | 47.58 | 74 | -26.42 | Peak | Н |
| 4960 | 51.53 | -4.04 | 47.49 | 74 | -26.51 | Peak | Н |
| 7440 | 48.72 | 1.57 | 50.29 | 74 | -23.71 | Peak | Н |
| 2483.5 | 57.69 | -9.29 | 48.40 | 74 | -25.60 | Peak | V |
| 4960 | 49.92 | -4.04 | 45.88 | 74 | -28.12 | Peak | V |
| 7440 | 49.50 | 1.57 | 51.07 | 74 | -22.93 | Peak | V |

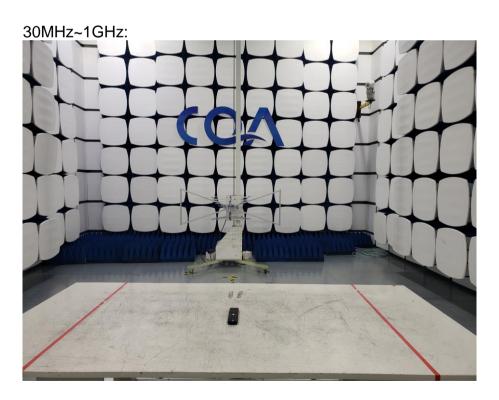
Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

6 Photographs - EUT Test Setup

6.1 Radiated Spurious Emission







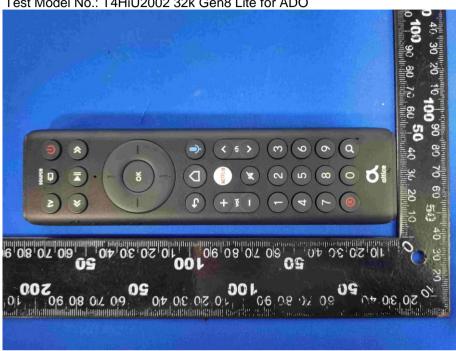


Above 1GHz:



Photographs - EUT Constructional Details 7

Test Model No.: T4HiU2002 32k Gen8 Lite for ADO







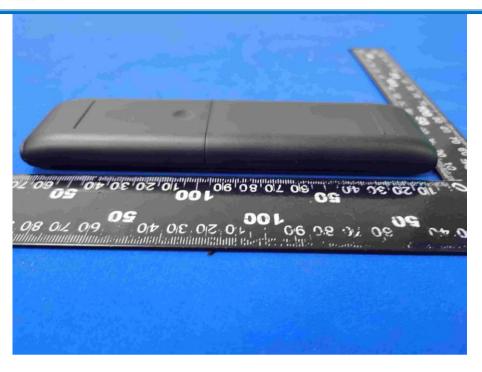


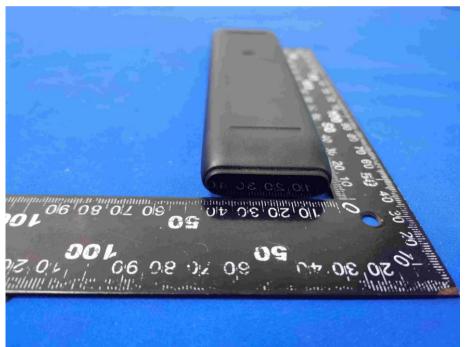






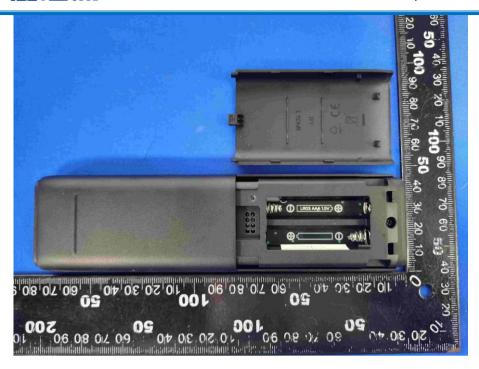


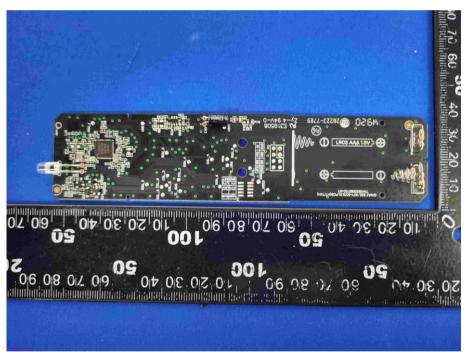






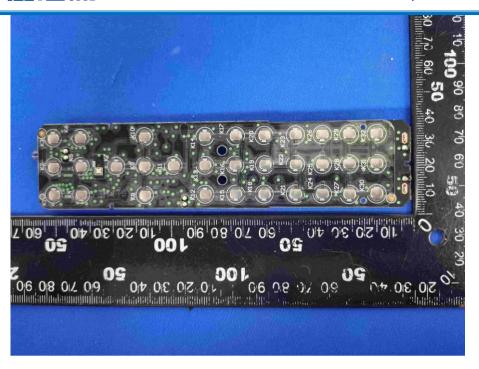














The End