

Report No.: 18220WC30260101 FCC ID: 2ASUP-SW-BR998 Page 1 of 41

FCC Test Report

| Anborek | 1st Floor, Building 24, Longcheng Industrial Zone Gaofeng Community, Dalang Street, Longhua District, P.O. Box: 518109, |
|-----------------|--|
| Address Anborek | shenzhen, China |
| Product Name | : Bluetooth Receiver |



Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com Hotline 400-003-0500 www.anbotek.com.cn



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| Shenzhen Anbotek Compliance Laboratory Limited |
|---|
| Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, |
| Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. |
| Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com |



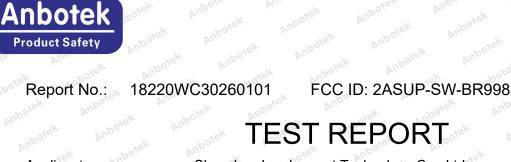


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Applicant:Shenzhen Leaderment Technology Co., Ltd.Manufacturer:Shenzhen Leaderment Technology Co., Ltd.Product Name:Bluetooth ReceiverTest Model No.:SW-BR998Reference Model No.:SW-BR999Trade Mark:SYNCWIRERating(s):Input: 5V= 2A

Test Standard(s)

47 CFR Part 15.247 ANSI C63.10-2020 KDB 558074 D01 15.247 Meas Guidance v05r02

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: Date of Test:

Prepared By:

Dec. 07, 2023 Dec. 07 ~ 18, 2023

Nian xiu Chen

(Nianxiu Chen)

Bolward pan

(Edward Pan)

ak hotek Anbort Ant

Approved & Authorized Signer:

Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com Hotline 400–003–0500 www.anbotek.com.cn



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Revision History

| Report Versi | on | | Description | | | Issued | Date | |
|--------------|----------|---------|-----------------|---------|---------|---------|---------|---------|
| Anbote R00 | otek Ant | otek | Original Issue. | Inbotek | Anbore. | Jan. 03 | , 2024 | Anboter |
| Anboi An | Inbotek | Anboien | Anbotek | Anbotek | K Anbo | botek | Anbotek | Anbo |
| ote Anbotek | Anboten | Anbo | k Anbotek | Anbore | atek Al | Anbotek | Anboten | ek K |

Anbc

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FCC ID: 2ASUP-SW-BR998

1. General Information

1.1. Client Information

| Applicant | : Shenzhen Leaderment Technology Co., Ltd. |
|--------------|--|
| Address | 1st Floor,Building 24,Longcheng Industrial Zone Gaofeng Community,Dalang Street,Longhua District, P.O. Box: 518109, shenzhen, China |
| Manufacturer | : Shenzhen Leaderment Technology Co., Ltd. |
| Address | 1st Floor,Building 24,Longcheng Industrial Zone Gaofeng Community,Dalang Street,Longhua District, P.O. Box: 518109, shenzhen, China |
| Factory | : Shenzhen Leaderment Technology Co., Ltd. |
| Address | 1st Floor,Building 24,Longcheng Industrial Zone Gaofeng Community,Dalang Street,Longhua District, P.O. Box: 518109, shenzhen, China |

1.2. Description of Device (EUT)

| Product Name | : | Bluetooth Receiver |
|------------------------|---|--|
| Test Model No. | : | SW-BR998 |
| Reference Model No. | : | SW-BR999 (Note: All samples are the same except the model number, so we prepare "SW-BR998" for test only.) |
| Trade Mark | : | SYNCWIRE STATES AND |
| Test Power Supply | : | DC 5V from Adapter input AC 120V/60Hz |
| Test Sample No. | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample) |
| Adapter | : | N/A Anborek Anborek Anborek Anborek Anborek Anbor |
| RF Specification | | |
| Operation Frequency | : | 2402MHz to 2480MHz |
| Number of Channel | : | 79 ortek Anbort An opotek Anborer Andre Anborek |
| | | |

| | | DA. | XG^1 | | N. | ~~~ I | 27. |
|--------------------|----|----------------|-----------|---------|---------|------------|---------|
| Modulation Type | | GFSK, π/4 DQPS | SK, 8DPSK | nbotek | Anbote. | And | Anbotek |
| Antenna Type | | PCB Antenna | Anbo | Anbotek | Anbore | Am | Anboth |
| Antenna Gain(Peak) | : | 1.9 dBi proven | Anbo | Anbotek | Anbor | k An abote | K Ant |
| Domorki | 20 | N. Not | 20c | | K | Per. | 57 |

Remark:

(1) All of the RF specification are provided by customer.(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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1.3. Auxiliary Equipment Used During Test

| Title | Manufacturer | Model No. | Serial No. |
|--------------------|--------------|-----------|------------------|
| HUAWEI Mobile | HUAWEI | JAT-AL00 | TMENW19925001206 |
| Xiaomi 33W adapter | Xiaomi | MDY-11-EX | SA62212LA04358J |

1.4. Operation channel list

Operation Band:

| Operation L | and. | 111 m | 10.4 | | r' v | - Solo | ans |
|------------------------------------|---|-------------------------|--------------------|-------------|--------------------|------------------------|---------------------------------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 0 potek | 2402 | 20 | 2422 | 40 | 2442 | 60,0010 | 2462 |
| ek 1 po | 2403 ¹⁰⁰¹⁶ | 21 | otek 2423 Moot | 41 Anbo | 2443 | tek 61 Anbe | 2463 |
| atek 2 | 10010 ² 2404 M ¹⁰ | 22 | 2424 | oten 42 An | 2444 | bote ^k 62 M | 2464 |
| 3 | 2405 | 23 | 2425 | Anbot 43 | 2445 | 63 M | 2465 |
| And 4 tek | 2406 | Anbore | 2426 | 44 | 2446 | 64 | 2466 |
| And 5 otek | 2407 | 25 | 2427 | 45 | 2447 | 65 potek | 2467 |
| 6 | 2408 | 26 ^{,1601} | 2428 | 46 Anboth | 2448 | et 66 Mod | 2468 |
| 7 And | 2409 | rek 27 Anb | 2429 | otek 47 Ant | 2449 | otet 67 | oo ^{tel} 2469 M ¹ |
| 8 | 2410 | 28 | 2430 | 48 | 2450 | 68 | 2470 |
| nbol 9 | 2411 | 29 | 2431 | 49 | 2451 | 69 | 2471 |
| M10 | 2412 | 30 | 2432 | 50 | 2452 | 70 potek | 2472 |
| 11 | 2413 | 31. bote | 2433 | 51 51 51 | 2453 | 71 | 2473 |
| 12Anbox | 2414 | ek 32 Anbo | 2434 | tek 52 Anb | 2454 | 72 | one ^k 2474 pr |
| tek 13 Ant | 2415 | pote ^k 33 pr | 2435 | 53 | 2455 | 73 | 2475 |
| 14 | 2416 | 34 | 2436 | 54 | 2456 | And 74 | 2476 |
| An 15 | 2417 | 35 | 2437 | 55 | 2457 | Anota tek | 2477 |
| 16 | 2418 | 36 otok | 2438 | 56 | 2458 | 76 | 2478 |
| 17 _{Anbore} | 2419 | ek 37 Anbot | 2439 | 57 | 2459 March | 77 ^{Anb} | otek 2479 |
| e ^k 18 pri ^b | 2420 | otek 38 An | potek 2440 And | 58 | 2460 | 78 | 2480 |
| bote 19 | 2421 | 39 | 2441 | 59 | 2461 | nbore- | Ann Potek |
| Ň | NOTO: | VUL | 19x | abo. | No. | hoter | DUT |

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1.5. Description of Test Modes

| Pretest Modes | Descriptions |
|---------------------|---|
| Anbotek TM1nboten | Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. |
| TM2 Anotek | Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation. |
| TM3 | Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation. |
| nborten TM4 ek Anb | Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. |
| Andorek TM5 ootek | Keep the EUT in continuously transmitting mode (hopping) with $π/4$ DQPSK modulation. |
| Anboret TM6 Anboret | Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation. |

1.6. Measurement Uncertainty

| Uncertainty |
|---|
| 3.4dB |
| 925Hz of house And house And house |
| 0.76dB |
| 1.24dB |
| 1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB |
| 3.53dB |
| Horizontal: 3.92dB; Vertical: 4.52dB |
| |

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

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1.7. Test Summary

| Test Items | Test Modes | Status |
|---|---------------------|-------------|
| Antenna requirement | An obotek / Anboten | Ante |
| Conducted Emission at AC power line | Mode1,2,3,4,5,6 | P |
| Occupied Bandwidth | Mode1,2,3 | PAN |
| Maximum Conducted Output Power | Mode1,2,3 | P |
| Channel Separation | Mode4,5,6 | Inbot Pk |
| Number of Hopping Frequencies | Mode4,5,6 | Anbot P tek |
| Dwell Time | Mode4,5,6 | P |
| Emissions in non-restricted frequency bands | Mode1,2,3,4,5,6 | PAND |
| Band edge emissions (Radiated) | Mode1,2,3,4,5,6 | PAN |
| Emissions in frequency bands (below 1GHz) | Mode1,2,3,4,5,6 | nbore P |
| Emissions in frequency bands (above 1GHz) | Mode1,2,3,4,5,6 | Anbore P.ek |
| Note: P: Pass | Anbotek Anbotek | Anbore |

N: N/A, not applicable

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1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.:434132

Shenzhen Anbotek Compliance Laboratory Limited, 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. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited. 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
 - 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
 - 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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1.10. Test Equipment List

Conducted Emission at AC power line

| 00 | , p. v | Lote. And | .0 | K | pr. V | in Oter |
|--------------------|--|------------------|-----------|------------------|--------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| × 1 | L.I.S.N. Artificial Mains Network | Rohde & Schwarz | ENV216 | 100055 | 2023-10-12 | 2024-10-11 |
| o ^{tek} 2 | Three Phase V- type Artificial Power Network | CYBERTEK | EM5040DT | E215040D T001 | 2023-07-05 | 2024-07-04 |
| 3 | EMI Test Receiver | Rohde & Schwarz | ESCI | 100627 | 2023-10-12 | 2024-10-11 |
| 4 | Software Name EZ-EMC | Farad Technology | ANB-03A | N/A Anbo | rek /Anbotek | Anboi |
| | you you | P. | yer vup | | Node No. | be. |

Occupied Bandwidth Maximum Conducted Output Power Channel Separation Number of Hopping Frequencies Dwell Time Emissions in non-restricted frequency bands

| - VA. | | | N. NU. | Per. | | |
|---|-----------------------------------|-----------------|----------------|-----------------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| Constant 1 Temperature ZHONG Humidity Chamber | | ZHONGJIAN | ZJ- KHWS80B | pote ^k N/A | 2023-10-16 | 2024-10-15 |
| 2 | DC Power Supply | IVYTECH | IV3605 | 1804D360 510 | 2023-10-20 | 2024-10-19 |
| Ani3ote | Spectrum Analyzer | Rohde & Schwarz | FSV40-N | 101792 | 2023-05-26 | 2024-05-25 |
| 4 . ^{nb} | MXA Spectrum Analysis | KEYSIGHT | N9020A | MY505318 23 | 2023-02-23 | 2024-02-22 |
| 5 🖻 | Oscilloscope | Tektronix | MDO3012 | C020298 | 2023-10-12 | 2024-10-11 |
| 6 | MXG RF Vector Signal Generator | Agilent | N5182A | MY474206 47 | 2023-02-23 | 2024-10-22 |

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| | edge emissions (Ra sions in frequency ba | | Anboro | Anbotek | Anbotek | Anbo |
|--|---|------------------------------|----------------------|-----------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | EMI Test Receiver | est Receiver Rohde & Schwarz | ESR26 | 101481 | 2023-10-12 | 2 2024-10-11 |
| 2 EMI Preamplifier SKET Electron | | SKET Electronic | LNPA- 0118G-45 | SKET-PA- 002 | 2023-10-12 | 2024-10-11 |
| 1 ⁰ 8 | 3 Double Ridged Horn Antenna SCHWARZBECK | | BBHA 9120D | 02555 | 2022-10-16 | 2025-10-15 |
| nbote 4 | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | Antotek | Anbotek |
| 5 | Horn Antenna | A-INFO | LB-180400- KF | J21106062 8 | 2023-10-12 | 2024-10-11 |
| 6 Spectrum Analyzer Rohde & Schwarz | | FSV40-N | 101792 | 2023-05-26 | 2024-05-25 | |
| ° [×] 7 | Amplifier | Talent Microwave | TLLA18G40 G-50-30 | 23022802 | 2023-05-25 | 2024-05-24 |

Emissions in frequency bands (below 1GHz)

| - 100 | biolic in inequelley be | | | | | |
|-------------------------------------|-----------------------------|--------------|---------------|------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 EMI Test Receiver Rohde & Schwarz | | ESR26 | 101481 | 2023-10-12 | 2024-10-11 | |
| 2 | Pre-amplifier | SONOMA | 310N | 186860 | 2023-10-12 | 2024-10-11 |
| 3 | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | 345 | 2022-10-23 | 2025-10-22 |
| Antore | Loop Antenna (9K- 30M) | Schwarzbeck | FMZB1519 B | 00053 | 2023-10-12 | 2024-10-11 |
| 5.nb | EMI Test Software EZ-EMC | SHURPLE | N/A N/A | N/A not | Anbo | k Anbotek |

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Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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2. Antenna requirement

| | | Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to |
|---|-------------------|--|
| | | ensure that no antenna other than that furnished by the responsible party |
| | Test Requirement: | shall be used with the device. The use of a permanently attached antenna or |
| | An wotek Anbot | of an antenna that uses a unique coupling to the intentional radiator shall be |
| 8 | AUD K | considered sufficient to comply with the provisions of this section. |

2.1. Conclusion

The antenna is a **PCB Antenna** which permanently attached, and the best case gain of the antenna is **1.9 dBi** . It complies with the standard requirement.

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Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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3. Conducted Emission at AC power line

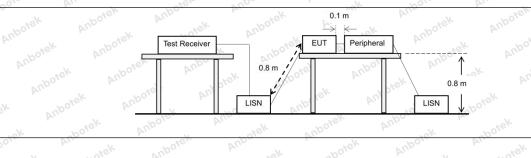
| Test Requirement: | Refer to 47 CFR 15.207(a), Excep section, for an intentional radiator to public utility (AC) power line, the ra- back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN). | that is designed to be con adio frequency voltage tha y frequency or frequencie exceed the limits in the fo | nected to the t is conducted s, within the blowing table, as |
|-------------------|---|--|---|
| abotek Anbo | Frequency of emission (MHz) | Conducted limit (dBµV) | N notek |
| hi. sek aboter | And k hotek Anboi | Quasi-peak | Average |
| Anbor An | 0.15-0.5 | 66 to 56* | 56 to 46* |
| Test Limit: | 0.5-5 det intore And | 56 poter An | 46 |
| Antesk | 5-30 × 10 | 60 | 50 ten And |
| K Anbore An | *Decreases with the logarithm of the | ne frequency. | pr. hotek Anbo |
| Test Method: | ANSI C63.10-2020 section 6.2 | botek Anboten | An. stek |
| Procedure: | Refer to ANSI C63.10-2020 section line conducted emissions from unli | | |

3.1. EUT Operation

Operating Environment:

| | North |
|-------------|---|
| Anbo | 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non- |
| tek aboter | hopping) with GFSK modulation. |
| di bi | 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode |
| hotek Anbor | (non-hopping) with $\pi/4$ DQPSK modulation. |
| a de la | 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non- |
| Test mode: | hopping) with 8DPSK modulation. |
| Test mode. | 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) |
| Anbo | with GFSK modulation,. |
| aboten | 5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode |
| All | (hopping) with $\pi/4$ DQPSK modulation. |
| ek Aupo, | 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) |
| botek | with 8DPSK modulation. |

3.2. Test Setup



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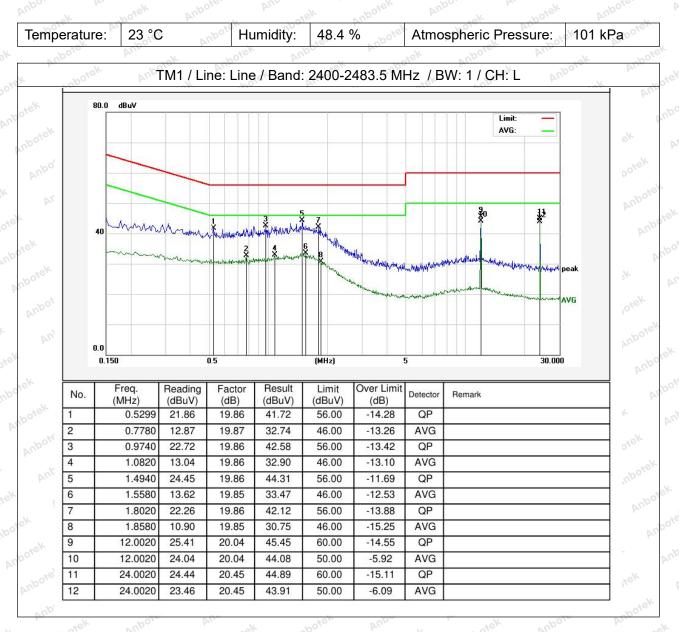
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3.3. Test Data

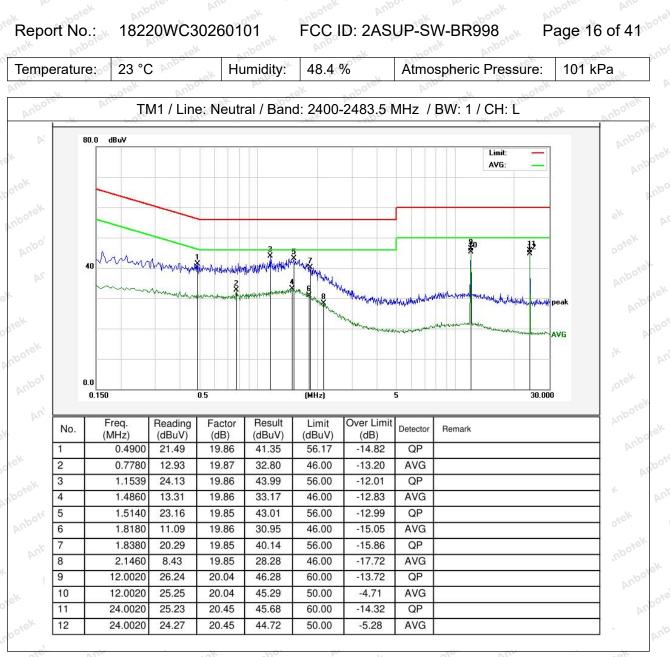


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Note:Only record the worst data in the report.

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Anbotek Product Safety

Report No.: 18220WC30260101

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4. Occupied Bandwidth

| Test Requirement: | 47 CFR 15.215(c) |
|---|---|
| Test Limit: | Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. |
| Test Method: | ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test. KDB 558074 D01 15.247 Meas Guidance v05r02 |
| hbotek Anbotek Anbo hbotek Anbotek Anb | The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth: a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between |
| | 1.5 times and 5.0 times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal |
| hotek Anbotek A Anbotek Anbotek A Anbotek Anbotek | from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2. d) Step a) through step c) might require iteration to adjust within the |
| Procedure: | specified range. e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold |
| | mode (until the trace stabilizes) shall be used. f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. |
| | g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are |
| | placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% neuron bandwidth is the difference between these two frequencies. |
| | power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to |
| Antotek Anbotek | the plot(s). |

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Anbot

4.1. EUT Operation

| Anbotek | 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. |
|------------|---|
| Test mode: | 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non- |
| 0 | hopping) with 8DPSK modulation. |

Anbotek

4.2. Test Setup

| EUT | Spec | trum Analyzer | |
|-----|-------|---------------|-----|
| Pur | hotek | Anbu. | h., |

PUR

4.3. Test Data

| Temperature: | 25.4 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|
|--------------|---------|-----------|------|-----------------------|---------|

nbotek

Please Refer to Appendix for Details.

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5. Maximum Conducted Output Power

| Test Requirement: | 47 CFR 15.247(b)(1) |
|---------------------------------------|--|
| Test Limit: | Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts. |
| Test Method: | ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Anbotek Anbotek Anbotek Anbotek | This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer |
| nbotek Anbotek Anb | settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. |
| Procedure: | c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. |
| | g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission. i) The indicated level is the peak output power, after any corrections for |
| Anbotek Anbotek | external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in the test report. |
| Anbotek Anbotek ek Anbotek Anbo | NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer. |

5.1. EUT Operation

| Operating Envi | ronment: Anboi k sotek Anboier Anboier abotek |
|----------------|---|
| Test mode: | 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation. |

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5.2. Test Setup

| ¢. | | | EUT | Spee | ctrum Analyzer | P ₁ | | Anbotek |
|--------|------------------|--------|------|---------|----------------|----------------|---------|---------|
| h orak | Anbo' Anbotek | Anbotc | A''' | Anboter | And- | Anbotek | Anbotek | Anbote |

5.3. Test Data

| Temperature: | 25.4 °C | -xek | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|------|-----------|------|-----------------------|---------|
| AV. | N. | ~O. | PA. | -10. | NOV NOV | NO. |

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6. Channel Separation

| Test Requirement: | 47 CFR 15.247(a)(1) |
|---|---|
| Test Limit: http://www.andorek | Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. |
| Test Method: | ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| hotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | 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. |
| Procedure: | c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. |
| hbotek Anbotek Anbotek Anbotek | 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 spectral plot of the data shall be included in the test report. |

6.1. EUT Operation

| Operating Envi | ronment: Anborek Anborek Anborek Anborek Anborek |
|-------------------|---|
| Test mode: Minore | 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation. 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation. |

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6.2. Test Setup

| P | | | EUT | Spec | trum Analyzer | PL | | Anbotek |
|------|------------|--------|-----|---------|---------------|---------|---------|---------|
| , dk | Antonbotek | Anborc | AI. | Anboter | And- | Anbotek | Anbotek | Anbo |

6.3. Test Data

| Temperature: | 25.4 °C | -xek | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|------|-----------|------|-----------------------|---------|
| AV. | N. | NO. | 124 | -10. | NOV NOV | NO. |

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7. Number of Hopping Frequencies

| Test Requirement: | 47 CFR 15.247(a)(1)(iii) |
|--|--|
| Test Limit: | Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400- 2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. |
| Test Method: | ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | 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 could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. |
| tek Anbore Ann hootek Anborek A Anborek Anborek Anborek Anborek | f) Trace: Max-hold. g) Allow the trace to stabilize. It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report. |

7.1. EUT Operation

| Operating Envi | ronment; otek Anbor Anborek Anborek Anborek A |
|----------------|--|
| Test mode: | 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. 5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation. 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation. |

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7.2. Test Setup

| | | | EUT | Spec | otrum Analyzer | AU | | Anbotek | |
|---------|-----------|--------------------|---------|---------|----------------|---------|---------|---------|--|
| - No | K Anbotek | Anbot ^c | Anbotek | Anboter | And | Anbotek | Anbotek | Anbore | |

7.3. Test Data

| Temperature: | 25.4 °C | _2.eK | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-------|-----------|------|-----------------------|---------|
| | | | | | | |

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8. Dwell Time

| tup h. | abote Ante inter and reading abote |
|-------------------|---|
| Test Requirement: | 47 CFR 15.247(a)(1)(iii) |
| Test Limit: | Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. |
| Test Method: | ANSI C63.10-2020, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| | The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of |
| | the last transmission. The time of occupancy is the total time that the device dwells on a channel |
| Anbotek Anbotek | over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period. |
| Procedure: | The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary wit the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels. |
| | Use the following spectrum analyzer settings to determine the dwell time pe hop: |
| | a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected transmission time per hop. |
| Anbotek Anbo | c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = |
| Anbotek Anbotek | 1/hopping rate) should achieve this.d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent |
| | channel. e) Detector function: Peak. f) Trace: Clear-write, single sweep. g) Place markers at the start of the first transmission on the channel and at |

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|----------|------|--------|--------|-----|-----------|-----------|--------|------|----------|
| Y9. | | | | | | | abort. | | |

the end of the last transmission. The dwell time per hop is the time between these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is $3 / 0.5 \times 10$, or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

8.1. EUT Operation

| Operating Envir | ronment: And have have have have have have have |
|-----------------|---|
| Test mode: | 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation. 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation. |

8.2. Test Setup

| 5 | pot ^{ek} | Anbotek | ₽ ^X EUT | | Spectrum Ana | lyzer | |
|---|-------------------|---------|--------------------|-----|--------------|-------|--|
| | Anbotek | | anboten | Anb | hotek | Anbor | |

8.3. Test Data

| | - A 0 P | de Maria | <u></u> | |
|--------------|---------|-----------|---------|-------------------------------|
| Temperature: | 25.4 °C | Humidity: | 48 % | Atmospheric Pressure: 101 kPa |
| ek por | Pr. | . Nor | 00V | sk son pr |

Please Refer to Appendix for Details.

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9. Emissions in non-restricted frequency bands

| Test Requirement: | 47 CFR 15.247(d), 15.209, 15.205 |
|--|--|
| Test Limit: | Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter |
| Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. |
| Test Method: | ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| oten Anbr Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote | 7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled. |
| hotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. |
| Procedure: | The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band |
| | measurements a separate spectral plot showing the in-band level shall be provided. |
| rek Anbotek An botek Anbotek An Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the |

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|---|---|
| Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | exception that the resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine |
| Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | compliance. 7.8.7.2 Band-edges Compliance with a relative limit at the band-edges (e.g., −20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels. |
| Anbotek Ant hek Anbotek | For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge. |
| | For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge. |

9.1. EUT Operation

| Operating Envir | onment: |
|----------------------|---|
| Anbotek Anbotek Anbo | 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation. |
| Test mode: | 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation. 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. |
| nbotek Anbotek | 5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation. 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation. |

9.2. Test Setup

| | Anbot | EUT | | Spectrum | Analyzer |
|--|-------|---------|----|----------|----------|
| | | ter Anb | F- | wotek | Anbor |

9.3. Test Data

| NN | | | V- 100. | | | de. NV | | |
|--------------|---------|--------|-----------|------|--------|-----------------------|---------|----|
| Temperature: | 25.4 °C | Anbore | Humidity: | 48 % | nboten | Atmospheric Pressure: | 101 kPa | .0 |
| 100 | - P | | -xe** | | | K NOT DI | | |

Please Refer to Appendix for Details.

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10. Band edge emissions (Radiated)

| Test Requirement: | restricted bands, as defined | , In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2 | ly with the |
|--|---|--|---|
| Anbotek Anbot | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| k hotek | 0.009-0.490 | 2400/F(kHz) | 300 mb ^{ote} |
| nboren Anbe | 0.490-1.705 | 24000/F(kHz) | 30 Jotek |
| atek unbore. | 1.705-30.0 | 30° hi atek noo | 30 |
| Anbo | 30-88 | 100 ** | 3tek Anbore |
| aboten Anbe | 88-216 | 150 ** | 3 |
| Al stek unbote | 216-960 | 200 ** | 3 boter Ant |
| Test Limit: | Above 960 | 500 poter Anibo | 3 otek and |
| nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek tek Anbotek Anbo | intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a | ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing | e located in the 470-806 MHz. aed under other band edges. measurements uency bands 9– ssion limits in |
| Test Method: | ANSI C63.10-2020 section KDB 558074 D01 15.247 M | | ek Anbote. |
| Procedure: | ANSI C63.10-2020 section | 6.10.5.2 | port An |

10.1. EUT Operation

| Operating Env | |
|---------------|---|
| potek Anbot | 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. |
| Anbotek An | 2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation. |
| Anboten | 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation. |
| Test mode: | 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation. |
| Anb Anb | 5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation. |
| over Ann | 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation. |

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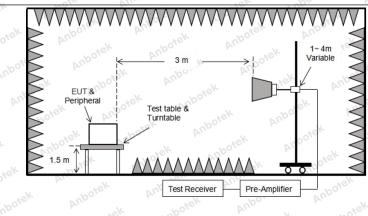
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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10.2. Test Setup



Shenzhen Anbotek Compliance Laboratory Limited

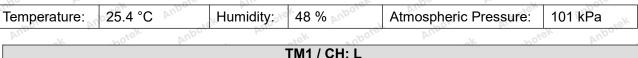
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com

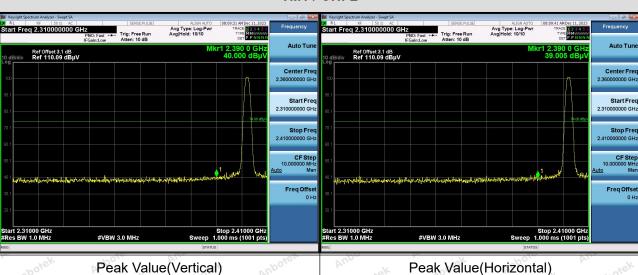


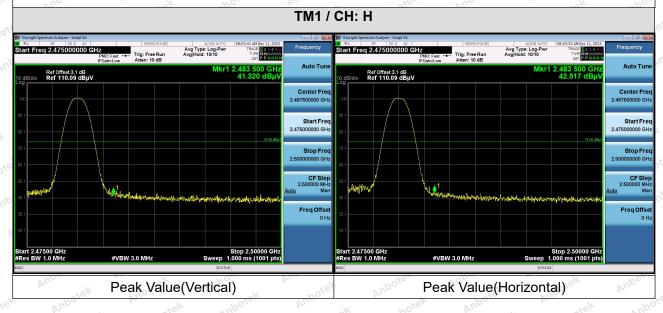


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10.3. Test Data







Note: When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.

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11. Emissions in frequency bands (below 1GHz)

| Test Requirement: | restricted bands, as defined | In addition, radiated emissions in § 15.205(a), must also comp cified in § 15.209(a)(see § 15.2 | ly with the |
|--|--|--|---|
| Anbotek Anbot otek Anbotek Ant | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| antek Anbotek | 0.009-0.490 0.490-1.705 | 2400/F(kHz) 24000/F(kHz) | 300 300 and 1 |
| inde tek nbotek | 1.705-30.0 | 30 | 30 |
| Anbo. A. botek | 30-88 | 100 ** | 3 et mbore |
| Anbote. And | 88-216 | 150 ** | 3 |
| k abotek Anbor | 216-960 Above 960 | 200 ** 500 | 3 |
| Test Limit: oren Anboren Anbor | intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a these three bands are base detector. | e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing | e located in the 470-806 MHz. aed under other band edges. measurements uency bands 9– ssion limits in |
| Test Method: | ANSI C63.10-2020 section KDB 558074 D01 15.247 M | | ek Anbois |
| Procedure: | ANSI C63.10-2020 section | 6.6.4 M | por An hotek |

11.1. EUT Operation

| Operating Envi | ronment: tek hobotek Anbot At hotek Anbote Anb |
|----------------|--|
| nbotek Anbote | 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. |
| Anbotek Anbr | 2: TX- $\pi/4$ -DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation. |
| Anboten A | 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation. |
| Test mode: | 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation. |
| ter And abotek | 5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation. |
| horek Anbo | 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation. |

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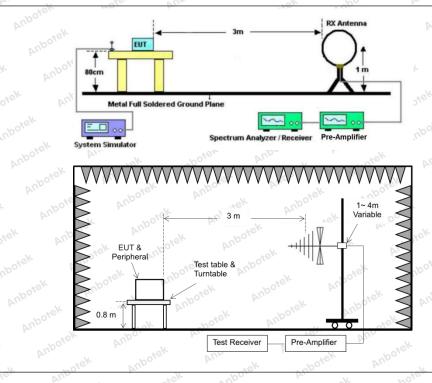
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11.2. Test Setup



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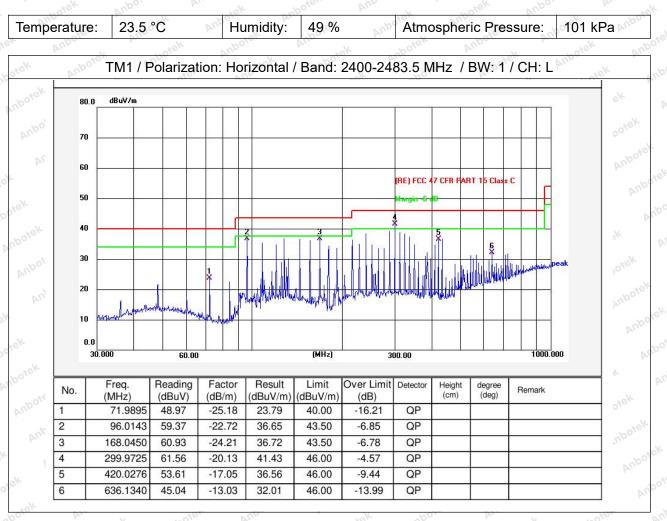




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11.3. Test Data

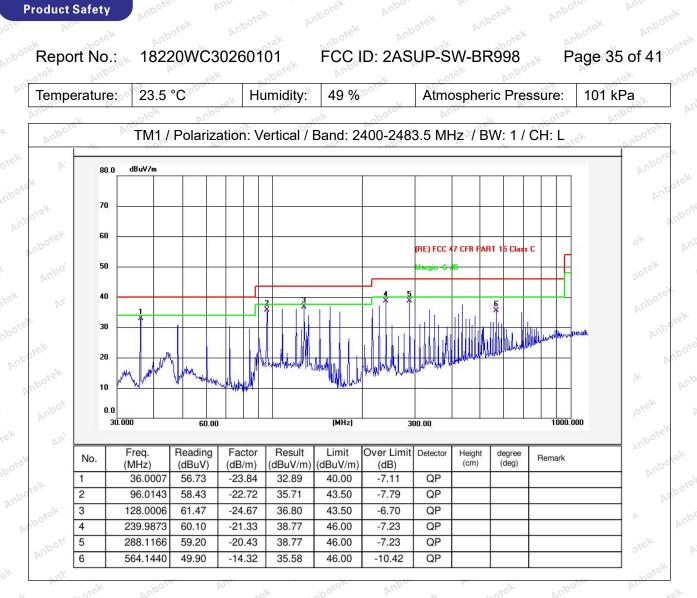
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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Note:Only record the worst data in the report.

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12. Emissions in frequency bands (above 1GHz)

| Test Requirement: | | ons which fall in the restricted background by the radiated emission $\overline{b}(c)$. | |
|--------------------------|---|---|---|
| k Anbotek Anbon | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| k hotek | 0.009-0.490 | 2400/F(kHz) | 300 000 |
| nboten And | 0.490-1.705 | 24000/F(kHz) | 30 Jose K |
| and anbore. | 1.705-30.0 | 30° At mo | 30 And |
| Anbo k hotek | 30-88 | 100 ** | 3 tek Anbore |
| aboten Anbe | 88-216 | 150 ** | 3 |
| A. stek unbore | 216-960 | 200 ** | 3 boten Ant |
| Anbo | Above 960 | 500 | 3 notek anb |
| Test Limit: Ster Anborek | intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a | ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emise of on measurements employing | e located in the 470-806 MHz. aed under other band edges. measurements uency bands 9– ssion limits in |
| Test Method: | ANSI C63.10-2020 section KDB 558074 D01 15.247 M | | ek Anbois |
| Procedure: | ANSI C63.10-2020 section | 6.6.4 Ant | po, Ar. |

12.1. EUT Operation

| Operating Env | |
|---------------|---|
| potek Anbot | 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. |
| Anbotek An | 2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation. |
| Anboten | 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non- hopping) with 8DPSK modulation. |
| Test mode: | 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation. |
| Anb Abot | 5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation. |
| nbotek Ant | 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation. |

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Report No.:

12.2. Test Setup

18220WC30260101

>

>

EUT &

Peripheral

1.5 m

3 m

Test Receiver

Test table & Turntable

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≻

P

Pre-Amplifier

WW

1~4m Variable

<

VVVV

 \leq

Anbotek Product Safety

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12.3. Test Data

| Temperature: | 23.5 °C | Humidity: | 49 % M ^{bore} | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------------------------|-----------------------|---------|
| 20V | ak no | . ×. | | NOV. | K No. |

| | | - | TM1 / CH: L | | | |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|--------------|
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4804.00 | 28.67 | 15.27 | 43.94 | 74.00 | -30.06 | Vertical |
| 7206.00 | 29.57 | 18.09 | 47.66 | 74.00 | -26.34 | Vertical |
| 9608.00 | 30.91 | 23.76 | 54.67 | 74.00 | -19.33 | Vertical |
| 12010.00 | Anbote * Af | in wek | abotek Anb | 74.00 | otek Anbott | Vertical |
| 14412.00 | Anbo*ek | Anbo | -botek P | 74.00 | atek ant | Vertical |
| 4804.00 | 28.91 | 15.27 | 44.18 | 74.00 | -29.82 | Horizontal |
| 7206.00 | 30.30 | 18.09 | 48.39 | 74.00 | -25.61 | Horizontal |
| 9608.00 | 28.88 | 23.76 | 52.64 | 74.00 | -21.36 | Horizontal |
| 12010.00 | potek * Anbo | ak ho | rek Anbore. | 74.00 | t nbotek | Horizontal |
| 14412.00 | botek* An | por Arm | atek anbo | 74.00 | walk woote | Horizontal |

Average value:

| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
|--------------------|-------------------|------------------|--------------------|---|--------------------|--------------|
| 4804.00 | 18.05 | 15.27 | 33.32 | 54.00 | -20.68 | Vertical |
| 7206.00 | 18.60 | 18.09 | 36.69 | 54.00 | -17.31 | Vertical |
| 9608.00 | 19.93 | 23.76 | 43.69 | 54.00 | -10.31 | Vertical |
| 12010.00 | notet | Anboten An | sek an | o ^{nek} 54.00 ph ^{bc} | -k | Vertical o |
| 14412.00 | Ant * tek | nbotek | Anbo. At | 54.00 | bote. And | Vertical |
| 4804.00 | 17.26 | 15.27 | 32.53 | 54.00 | -21.47 | Horizontal |
| 7206.00 | 19.36 | 18.09 | 37.45 | 54.00 | -16.55 | Horizontal |
| 9608.00 | 18.19 | 23.76 | 41.95 | 54.00 | -12.05 | Horizontal |
| 12010.00 | * * | otek Anbo. | N NOT | 54.00 | And | Horizontal |
| 14412.00 | upp. * | botek Ant | Jote And | 54.00 | ek Aupo | Horizontal |
| | | (n. | 19. | 5° | N | 110 |

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7323.00

9764.00

12205.00

14646.00

4882.00

7323.00

9764.00

12205.00

14646.00

| Кероп No.: | 1822000030 | 260101 | FUC ID: ZAS | SUP-SW-BRS | Pag | ge 39 of 41 |
|--------------------|-------------------|------------------|--------------------|-------------------|-----------------------|--------------|
| oter Ant | | vupo, | TM1 / CH: M | boter | AIND | Nek. |
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4882.00 | 28.69 | 15.42 | 44.11 M | 74.00 | -29.89 ¹⁰⁰ | Vertical |
| 7323.00 | 29.42 | 18.02 | 47.44 | 74.00 | -26.56 | Vertical |
| 9764.00 | 29.92 | 23.80 | 53.72 | 74.00 | -20.28 | Vertical |
| 12205.00 | ek * abotek | Anbore | Attinotek | 74.00 | Anbo | Vertical |
| 14646.00 | * ~ ~ | tek Anbore | Aup | 74.00 | Anbor | Vertical |
| 4882.00 | 28.61 | 15.42 | 44.03 | 74.00 | -29.97 | Horizontal |
| 7323.00 | 30.29 | 18.02 | 48.31 | 74.00 | -25.69 | Horizontal |
| 9764.00 | 28.58 | 23.80 | 52.38 | 74.00 | -21.62 | Horizontal |
| 12205.00 | * votek | Anboten | And | 74.00 | upor pr | Horizontal |
| 14646.00 | Art otek | Anbotek | Anbor | 74.00 | Anboton | Horizontal |
| Average value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4882.00 | 17.78 | 15.42 | 33.20 | 54.00 M | -20.80 | Vertical |
| 307 | 000- | No. | NOT P | | 101 00 | |

36.72

43.59

32.59

36.94

42.50

54.00

54.00

54.00

54.00

54.00

54.00

54.00

54.00

54.00

Report No.: 18220WC30260101

18.70

19.79

*

17.17

18.92

18.70

*

*

* ~ 0

18.02

23.80

15.42

18.02

23.80

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-17.28

-10.41

-21.41

-17.06

-11.50

Vertical

Vertical

Vertical

Vertical

Horizontal

Horizontal Horizontal

Horizontal

Horizontal



nbotek **Product Safety**

| | | ٦ | TM1 / CH: H | | | |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|--------------|
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarizatior |
| 4960.00 | 28.96 | 15.58 | 44.54 | 74.00 | -29.46 | Vertical |
| 7440.00 | 29.43 | 17.93 | 47.36 | 74.00 | -26.64 | Vertical |
| 9920.00 | 30.47 | 23.83 | 54.30 | 74.00 | -19.70 | Vertical |
| 12400.00 | A. wotek | Anboten | Anu | 74.00 | Anbor | Vertical |
| 14880.00 | * And | ek nootel | Anbo | 74.00 | Anbote | Vertical |
| 4960.00 | 28.68 M | 15.58 | 44.26 | 74.00 | -29.74 | Horizontal |
| 7440.00 | 30.32 | 17.93 | 48.25 | 74.00 | -25.75 | Horizonta |
| 9920.00 | 29.26 | 23.83 | 53.09 | 74.00 | -20.91 | Horizontal |
| 12400.00 | Anb * | abotek | Anbor | 74.00 | Inboten Ant | Horizontal |
| 14880.00 | Ar*Dor | A. hotek | Anboter | 74.00 | hotek | Horizontal |
| Average value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarizatio |
| 4960.00 | 18.90 | 15.58 | 34.48 | 54.00 | -19.52 | Vertical |
| 7440.00 | 19.71 | 17.93 | 37.64 | 54.00 | -16.36 | Vertical |
| 9920.00 | 20.34 | 23.83 | 44.17 | 54.00 | -9.83 | Vertical |
| 12400.00 | k * nbotek | Anbo. | hotek | 54.00 | And | Vertical |
| 14880.00 | * bot | Anboro. | Ant | 54.00 | Anbor | Vertical |
| 4960.00 | 18.61 | otek 15.58 moot | 34.19 | 54.00 | -19.81 | Horizonta |
| 7440,00 | 000000 | 17.00 | 00000 | | 1 | 10° |

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7440.00 20.29 17.93 38.22 54.00 -15.78 Horizontal 9920.00 18.60 42.43 54.00 -11.57 23.83 Horizontal 12400.00 * .0 54.00 Horizontal 14880.00 * 54.00 Horizontal

Remark:

- Result =Reading + Factor 1.
- 2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.
- Only the worst case is recorded in the report. 3.

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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report ----

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