

FCC Test Report

Applicant : TRUSTSTONE GROUP, LLC

Address 1370 Broadway, 9th floor, New York, NY 10018, United States

Product Name : KARAOKE-DUET SET-WIRELESS MIC

Report Date : Aug. 21, 2023



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





Report No.: 18220WC30149301

FCC ID: 2BBPLPY2PKR

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| <u>_</u> 10. | . Band edge emissions (Radiated) | Anu | 03.0 ^{1/} | phote | r Pi | upo. | | nbotek | Anbot | 28 |
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|---|
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|--|--|--------------------|-------------|
| 10.2. Test Setup 10.3. Test Data | k kribotek Anbotek | Anuatek Anuatek | |
| 11. Emissions in restricted frequency bands | (below 1GHz) | otek Anbo. | |
| 11.1. EUT Operation 11.2. Test Setup 11.3. Test Data | Antonio Antoni | hupolot Aupol | |
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| 12.1. EUT Operation 12.2. Test Setup 12.3. Test Data | her and | f | |
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Test Standard(s)

Anbotek

47 CFR Part 15.247 2022

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:

Jul. 21, 2023 Jul. 21, 2023 to Jul. 26, 2023

Nian xiu Chen

(Nianxiu Chen)

Idward pan

(Edward Pan)

Approved & Authorized Signer:

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Revision History

| Report Ve | rsion | | Description | | Issued Date | | | |
|------------|------------|------------|-----------------|---------|--------------|--------------|--------|--|
| R00 | abotek Ant | otek d | Driginal Issue. | Inbotek | Anbote | ug. 21, 2023 | Anbote | |
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Report No.: 18220WC30149301

FCC ID: 2BBPLPY2PKR

1. General Information

1.1. Client Information

| Applicant | : | TRUSTSTONE GROUP, LLC |
|--------------|---|---|
| Address | : | 1370 Broadway, 9th floor, New York, NY 10018, United States |
| Manufacturer | : | TRUSTSTONE GROUP, LLC |
| Address | : | 1370 Broadway, 9th floor, New York, NY 10018, United States |
| Factory | : | TRUSTSTONE GROUP, LLC |
| Address | : | 1370 Broadway, 9th floor, New York, NY 10018, United States |

1.2. Description of Device (EUT)

| N. | 100 | |
|--|-----|--|
| Product Name | : | KARAOKE-DUET SET-WIRELESS MIC |
| Test Model No. | : | PY-2PKR |
| Reference Model No. | : | N/A otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek |
| Trade Mark | : | N/A Anborek Anborek Anborek Anborek Anborek Anborek |
| Test Power Supply | : | AC 120V, 60Hz for Adapter/ DC 3.7V battery inside |
| Test Sample No. | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample) |
| Adapter | : | N/A* Anbotek Anbotek Anbotek Anbotek |
| RF Specification | | |
| Operation Frequency | • | 2402MHz to 2480MHz |
| Number of Channel | : | 79 Channels |
| Modulation Type | : | GFSK, π/4 DQPSK, 8DPSK |
| Antenna Type | : | PCB Antenna |
| Antenna Gain(Peak) | : | -0.6 dBi (Provided by customer) |
| Remark: (1) For a mospecifications or the U | | detailed features description, please refer to the manufacturer's r's Manual. |

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1.3. Auxiliary Equipment Used During Test

| Title Manufacturer | | | | urer | Мо | del No. | | Serial No. | | |
|-----------------------------------|----------------|----------|----------------|---------------------|----------------|-----------------------------------|---------------------|-----------------|----------------|--|
| Xiaomi 3 | 3W adapt | er Anv | Xiaomi | Anbotek | MD | Y-11-EX | ote ^X SA | SA62212LA04358J | | |
| 1.4. Char | nnel List | poten P | Anbotek | Anbotek | Aupc | botek | Anbotek | Anboten | Anbo | |
| Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) | |
| 00 ^{° * 0} 0 | 2402 | 17 Dote | 2419 | 34 | 2436 | A51 ten | 2453 | 68 | 2470 | |
| An ⁰ 01 | 2403 | K 18 Anb | 2420 | 35 | 2437 | 52 offe | 2454 | 69 | 2471 | |
| 02 | 2404 | otek 19 | 2421 | Anto 36 | 2438 | et 53 prob | 2455 | 70 | 2472 | |
| 03 not | 2405 | 20 | 2422 | 37 | 2439 | po ^{tek} 54 | 2456 | And 71 tek | 2473 | |
| ^{ek} 04 pri ^k | 2406 | 21 | 2423 | 38 | 2440 | nb 55 | 2457 | 72 | 2474 | |
| o ^{tek} 05 | 2407 | 22 ote | 2424 | 39 An | 2441 | 56 | 2458 | 73 | 2475 | |
| 06 | 2408 | 23 | 2425 | 40 | 2442 | 57.001e | 2459 | 74 | 2476 | |
| 07 ¹⁰ | 2409 | 24 | 2426 | Anbota 41 | 2443 | × 58 Anor | 2460 | 75 | 2477 | |
| 08.0019 | 2410 | 25 | 2427 | 42 | 2444 | o ^{xe^x 59} | 2461 | 26 tek | 2478 | |
| × 09 pm | 2411 | 26 | 2428 | 43 | 2445 | 60 | 2462 | 77 | 2479 | |
| o ^{tek} 10 p | 2412 | 27 tek | 2429 | 44 Ant | 2446 | 61 | 2463 | 78 | 2480 | |
| nbº11 | 2413 | 28 | × 2430 pr | 45 | 2447 | 62 otek | 2464 | | | |
| 12 [°] | 2414 | 29 | 2431 | 46 | 2448 | 63 ₀₀ 0 | 2465 | | | |
| 13 ot e | 2415 | 30 | 2432 | 47 | 2449 | ste ^k 64 _{№1} | 2466 | Anderstek | anboy | |
| < 14 Antos | 2416 | 31 | 2433 | 48 000 | 2450 | 65 etc. | 2467 | | | |
| stek 15 p | 2417 | 32 | 2434 | 49 Anb | 2451 | 66 | 2468 | | | |
| 16 | 2418 | 33 | 2435 | o ^{tek} 50 | 2452 | 67 | 2469 ^{°°} | | | |

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1.5. Description of Test Modes

| Pretest Modes | Descriptions Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. | | | | |
|---------------------|---|--|--|--|--|
| Anbotek TM1nboten A | | | | | |
| TM2 | Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation. | | | | |
| otek Anbore Andrew | Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation. | | | | |
| TM4 et Anto | Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. | | | | |
| And the TM5 botek | Keep the EUT in continuously transmitting mode (hopping) with $π/4$ DQPSK modulation. | | | | |
| Anborek TM6 Anbore | Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation. | | | | |

1.6. Measurement Uncertainty

| Parameter | Uncertainty |
|--|--|
| Conducted emissions (AMN 150kHz~30MHz) | 3.4dB |
| Occupied Bandwidth | 925Hz |
| Conducted Output Power | 0.76dB |
| Conducted Spurious Emission | 1.24dB |
| Radiated spurious emissions (above 1GHz) | 1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB |
| Radiated spurious emissions (30MHz~1GHz) | Horizontal: 3.92dB; Vertical: 4.52dB |
| This uncertainty represents an expanded uncertain confidence level using a coverage factor of k=2. | nty expressed at approximately the 95% |

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1.7. Test Summary

| Test Items | Test Modes | Status |
|--|-------------------|----------|
| Antenna requirement | An abotek Anboten | P |
| Conducted Emission at AC power line | Mode1,2,3 | PAND |
| Occupied Bandwidth | Mode1,2,3 | P |
| Maximum Conducted Output Power | Mode1,2,3 | nbole P |
| Channel Separation | Mode4,5,6 | Anborn P |
| Number of Hopping Frequencies | Mode4,5,6 | P |
| Dwell Time | Mode4,5,6 | Pinbo |
| Emissions in non-restricted frequency bands | Mode1,2,3,4,5,6 | P An |
| Band edge emissions (Radiated) | Mode1,2,3 | nbote P |
| Emissions in restricted frequency bands (below 1GHz) | Mode1,2,3 | Anboie P |
| Emissions in restricted frequency bands (above 1GHz) | Mode1,2,3 | P'A |
| Note: Anborek Anborek Anborek Anborek | Anbo stek nbotek | Aupor |

P: Pass

N: N/A, not applicable

1.8. Description of Test Facility

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

FCC-Registration No.:184111

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. 184111.

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

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1.9. Test Equipment List

Conducted Emission at AC power line

| - Ver | 100 PT. | K NOTE | PUD. | A CHARTER AND A CHART AND A | ~ (b0)- |
|--|--|--|---|---|---|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| L.I.S.N. Artificial Mains Network | Rohde & Schwarz | ENV216 | 100055 | 2022-10-23 | 2023-10-22 |
| Three Phase V- type Artificial Power Network | CYBERTEK | EM5040DT | E215040D T001 | 2023-07-05 | 2024-07-04 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 100627 | 2022-10-13 | 2023-10-12 |
| RF Switching Unit | Compliance Direction | RSU-M2 | 38303 | 2022-10-22 | 2023-10-21 |
| Software Name EZ-EMC | Farad Technology | ANB-03A | N/A N | botek / Anbo | otek Anbot |
| | Mains Network Three Phase V- type Artificial Power Network EMI Test Receiver RF Switching Unit Software Name | L.I.S.N. Artificial Mains NetworkRohde & SchwarzThree Phase V- type Artificial Power NetworkCYBERTEKEMI Test ReceiverRohde & SchwarzRF Switching UnitCompliance DirectionSoftware NameEarad Technology | L.I.S.N. Artificial Mains NetworkRohde & SchwarzENV216Three Phase V- type Artificial Power NetworkCYBERTEKEM5040DTEMI Test ReceiverRohde & SchwarzESCIRF Switching UnitCompliance DirectionRSU-M2Software NameEarad TechnologyANB-03A | L.I.S.N. Artificial Mains NetworkRohde & SchwarzENV216100055Three Phase V- type Artificial Power NetworkCYBERTEKEM5040DTE215040D T001EMI Test ReceiverRohde & SchwarzESCI100627RF Switching UnitCompliance DirectionRSU-M238303Software NameEarad TechnologyANB-03AN/A | L.I.S.N. Artificial Mains NetworkRohde & SchwarzENV2161000552022-10-23Three Phase V- type Artificial Power NetworkCYBERTEKEM5040DTE215040D T0012023-07-05EMI Test ReceiverRohde & SchwarzESCI1006272022-10-13RF Switching UnitCompliance DirectionRSU-M2383032022-10-22Software NameEarad TechnologyANB-03AN/A// |

| | edge emissions (Ra sions in restricted fre | adiated) equency bands (above | e 1GHz) | Anbo | Anbotek | Anbort Ar |
|-----------------|---|----------------------------------|----------------------|-----------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | EMI Test Receiver | Rohde & Schwarz | ESR26 | 101481 | 2022-10-23 | 2023-10-22 |
| 2 | EMI Preamplifier | SKET Electronic | LNPA- 0118G-45 | SKET-PA- 002 | 2022-10-13 | 2023-10-12 |
| 3 | Double Ridged Horn Antenna | SCHWARZBECK | BBHA 9120D | 02555 | 2022-10-16 | 2025-10-15 |
| ^{otek} | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | Anboy | Anbotek |
| 5 | Horn Antenna | A-INFO | LB-180400- KF | J21106062 8 | 2022-10-23 | 2023-10-22 |
| 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 |

| Emis | sions in restricted fre | equency bands (below | 1GHz) | Anbo | h. Anbotek | Anbore P |
|------|-----------------------------|----------------------|-----------|------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 9nor | EMI Test Receiver | Rohde & Schwarz | ESR26 | 101481 | 2022-10-23 | 2023-10-22 |
| 2 | Pre-amplifier | SONOMA | 310N M | 186860 | 2022-10-23 | 2023-10-22 |
| 3 | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | 345 | 2022-10-23 | 2025-10-22 |
| 4.ek | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | Anbytek | Anborn |

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| Emiss Occu Maxir Chan | l Time sions in non-restricte pied Bandwidth num Conducted Out nel Separation per of Hopping Frequ | tput Power | Anborek Anborek eek Anbore horek Anb | Anbotek Anbotek otek Anbotek | Anbotek Anbotek htek Anbotek | Anbotek Anbotek Anbotek |
|--------------------------------|---|--------------|---|------------------------------------|------------------------------------|-------------------------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 1 | MXG RF Vector Signal Generator | Agilent | N5182A | MY481806 56 | 2022-10-13 | 2023-10-12 |
| 2 | Power Meter | Agilent | N1914A | MY500011 02 | 2022-10-26 | 2023-10-25 |
| 3 | DC Power Supply | IVYTECH | IV3605 | 1804D360 510 | 2022-10-22 | 2023-10-21 |
| 4 | MXA Spectrum Analysis | KEYSIGHT | N9020A | MY505318 23 | 2023-02-23 | 2024-02-22 |
| ×°*5 | Oscilloscope | Tektronix | MDO3012 | C020298 | 2022-10-19 | 2023-10-18 |

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2. Antenna requirement

| Test Standard | FCC Part15 Section 15.203 /247(c) |
|-------------------|--|
| Arr. boten | 1) 15.203 requirement: |
| | An intentional radiator shall be designed to ensure that no antenna other |
| k botek Anbo. | 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 |
| Test Requirement: | of a standard antenna jack or electrical connector is prohibited. |
| | 2) 15.247(c) (1)(i) requirement: |
| And k botek | Systems operating in the 2400-2483.5 MHz band that is used exclusively for |
| | fixed. Point-to-point operations may employ transmitting antennas with |
| | directional gain greater than 6dBi provided the maximum conducted output |
| And | power of the intentional radiator is reduced by 1 dB for every 3 dB that the |
| tek mboten And | directional gain of the antenna exceeds 6 dBi. |

3. Conducted Emission at AC power line

| Anbotek Anbotek Anbotek | Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted | | | | | |
|-------------------------------|---|----------------------------|------------------|--|--|--|
| Test Requirement: | back onto the AC power line on ar | ny frequency or frequencie | s, within the | | | |
| otek Anbotek Anb | band 150 kHz to 30 MHz, shall no measured using a 50 μH/50 ohms (LISN). | | | | | |
| bet botek | Frequency of emission (MHz) | Conducted limit (dBµV) | | | | |
| Anbors An. | aboter Anbo | Quasi-peak | Average | | | |
| - totek Anbo | 0.15-0.5 | 66 to 56* | 56 to 46* | | | |
| Test Limit: | 0.5-5 | 56 | 46 | | | |
| Anbore An | 5-30 And And | 60.ek Anbor | 50 | | | |
| ek nbotek Anbo | *Decreases with the logarithm of t | he frequency. | Anbo. A. | | | |
| Test Method: | ANSI C63.10-2020 section 6.2 | Anbo Lek abotek | Anbore An | | | |
| Procedure: | Refer to ANSI C63.10-2020 sectio line conducted emissions from unl | | od for ac power- | | | |

3.1. EUT Operation

| Operating Environment: | anborek | Anbor | putotek | Anboten | Annotek | anbo |
|------------------------|-------------------------------|--|----------------------------------|----------|-------------|---------|
| ek Anboten Anbo | | Non-Hopping) opping) with G PSK (Non-Hop | FSK modulation | on. | rek noo | nitting |
| Test mode: | transmitting n 3: TX-8DPSK | ode (non-hop (Non-Hopping | ping) with π/4 g): Keep the E | DQPSK mc | dulation. 💉 | mitting |
| Anbotek Anbo | mode (non-ho | opping) with 8 | DPSK modulat | And tek | Anbornotek | Anbotek |

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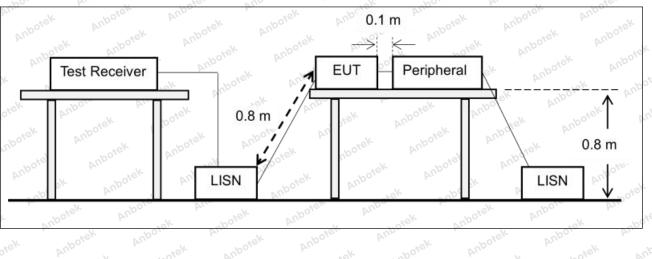
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3.2. Test Setup



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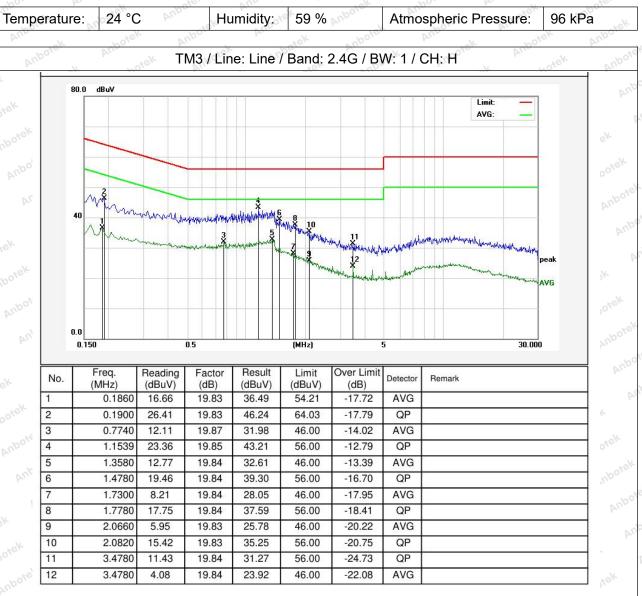
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3.3. Test Data

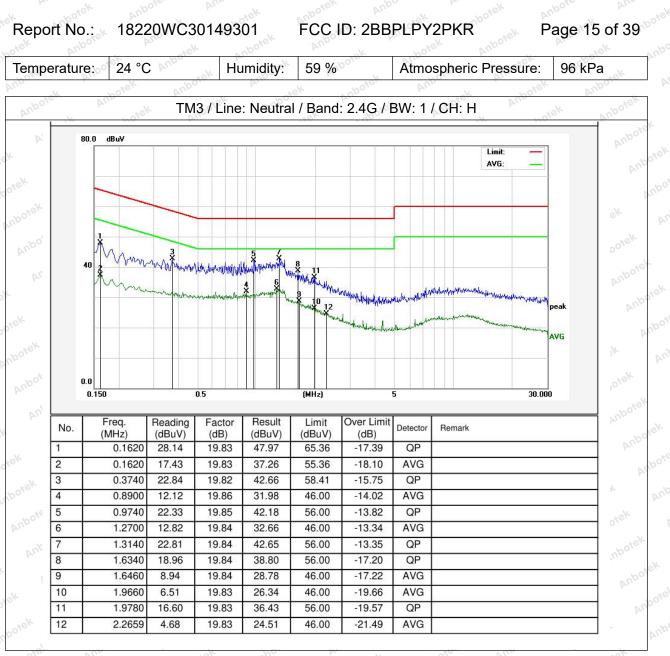


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Note: Only record the worst data in the report.

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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. |
| Anborek | 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 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 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 |
| potek Anbotek | 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 lower frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing spectral plot(s) of |
| potek Anborek Al | 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 the plot(s). |

4.1. EUT Operation

Operating Environment:

Test mode:1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting
mode (non-hopping) with GFSK modulation.

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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.

4.2. Test Setup

| EUT | Spectrum Analyzer |
|-----|-------------------|
| | |

4.3. Test Data

| 0. k. | N N N N N N N N N N N N N N N N N N N | 002 | -0.5 | ho. h. | A AND |
|--------------|--|-----------|---------|-----------------------|---|
| Temperature: | 24.2 °C | Humidity: | 48.9 % | Atmospheric Pressure: | 102 kPa |
| 10r | where where we have a second s | P | a allow | DUP - CK | 200. |

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: ^{rek} Anboren | 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 |
| Anbotek Anbotek 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 settings: |
| Anto Antorek An | a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. |
| nbotek Anbotek | c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. |
| Procedure: | f) Trace: Max-hold.g) Allow trace to stabilize. |
| tek Anbotek Ant | h) Use the marker-to-peak function to set the marker to the peak of the emission. |
| botek Anbotek | i) The indicated level is the peak output power, after any corrections for external attenuators and cables. |
| Anbotek Anboten | j) A spectral plot of the test results and setup description shall be included in the test report. |
| Anbotek Anbote Anbotek Anbote | 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 |
| A. notek Anb | analyzer. |

5.1. EUT Operation

| Operating Environment: | Anboit Air hotek Anboten Anbe tek abotek Anboit |
|------------------------|--|
| Anbotek Anbotek | 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. |
| All sek aboter | 2: TX-π/4 DQPSK (Non-Hopping): Keep the EUT in continuously |
| Test mode: | transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation. |
| k botek Anbor | 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting |
| And ak be | mode (non-hopping) with 8DPSK modulation. |
| botek Anbote, And | notek Anboren Anbor A. potek Anbore, Ant |

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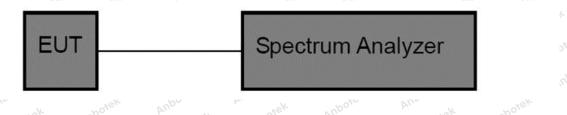




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5.2. Test Setup



5.3. Test Data

| 5.3. Test Dat | arek | | Anborek | Anbotek | Anboten | Anbe | Anbotek |
|---------------|---------|--------|-----------|---------|-------------|-----------|---------|
| Temperature: | 24.2 °C | Anbors | Humidity: | 48.9 % | Atmospheric | Pressure: | 102 kPa |

Please Refer to Appendix for Details.

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6. Channel Separation

| Test Requirement: | 47 CFR 15.247(a)(1) |
|--|---|
| Test Limit: Anborek | 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 |
| Procedure: | The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. |
| tek Anbor An hotek Anbotek A 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 Environment: | k Anboten And tek Anbotek Anbot At botek Anbot |
|------------------------|---|
| tek Anbore Ani | 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. |
| pote Ant Lek | 5: TX- $\pi/4$ DQPSK (Hopping): Keep the EUT in continuously transmitting |
| Test mode: | mode (hopping) with $\pi/4$ DQPSK modulation. |
| Anbo | 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode |
| anboten Anbo | (hopping) with 8DPSK modulation. |
| A. otek Anbote. | And lak abotek Anbo, An otek Anboten And |

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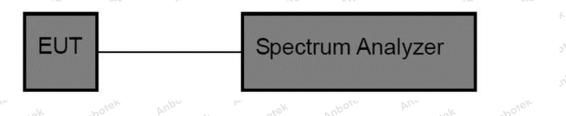




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6.2. Test Setup



6.3. Test Data

| 6.3. Test Dat | astek | | Anborek | Anbotek | Anboten | Anbo | Anbotek |
|---------------|---------|--------|-----------|---------|-------------|-----------|---------|
| Temperature: | 24.2 °C | Anbors | Humidity: | 48.9 % | Atmospheric | Pressure: | 102 kPa |

Please Refer to Appendix for Details.

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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 |
| Procedure: Anborek Anborek Procedure: Anborek Anborek Anborek Anborek Anborek Anborek Anborek | 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. 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 Environment: | wak wotek Anbote, And tek Anbotek Anbot |
|------------------------|---|
| potek Anbotek Ant | 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. |
| botek Anbo | 5: TX- $\pi/4$ DQPSK (Hopping): Keep the EUT in continuously transmitting |
| Test mode: | mode (hopping) with $\pi/4$ DQPSK modulation. |
| aboten And | 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode |
| All otek Anboten | (hopping) with 8DPSK modulation. |
| Anbo. A. wote | Anbote. And sek abotek Anbor k satek Anbot |

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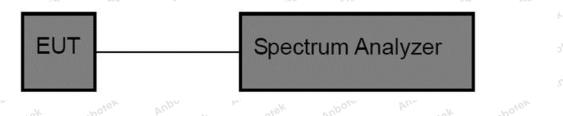




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7.2. Test Setup



7.3. Test Data

| 7.3. Test Data | a _{ot} ek | Anbotek | Anbore botel | Anbotek | Anboten | Anbo | Anbotek |
|----------------|--------------------|---------|--------------|---------------------------|-------------|-----------|---------|
| Temperature: | 24.2 °C | Anbort | Humidity: | 48.9 % Mo ^{ster} | Atmospheric | Pressure: | 102 kPa |

Please Refer to Appendix for Details.

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8. Dwell Time

| 10 ⁰ | 5.247(a)(1)(iii) | And | 4 _bott | | pr. |
|--|---|---|---|--|---|
| Refer to 4 | | | | | V |
| occupancy period of (employed) transmissi | Hz band shall y on any chan).4 seconds m . Frequency ho ons on a parti | use at least 1 nel shall not l ultiplied by th opping system | 5 channels be greater the ne number o ms may avo | . The averag han 0.4 seco of hopping ch bid or suppres | nds within a annels ss |
| ANSI C63 | .10-2020, sec | ion 7.8.4 | . Inbote | Aupo. | Ar bote |
| transmissi a single tra transmissi dwell time the last tra The time o over an ot determine measure t | on to the end ansmission pe on. If the devic is measured f ansmission. of occupancy i oservation peri the time of oc both the dwell | of the last tra r hop then th ce has a mul- rom the start s the total tim od specified cupancy the time per hop | nsmission f e dwell time tiple transm of the first ne that the c in the regul spectrum a and the nu | for that hop. e is the durat issions per h transmission device dwells atory require nalyzer will t mber of time | If the device ha ion of that op then the to the end of on a channel ment. To be configured t |
| transmits | on a specific c | hannel in a g | liven period | in | |
| requirement number of the number based on dwell time for 1, 3 or | nts shall be m channels ena of channels the minimum r s per channel 5 time slots) ti | ade with the bled. If the d than complia number of ch (example Blu nen measure | minimum an well time pe ince with the annels. If th uetooth devi iments can | nd with the n er channel do e requiremer ne device sup ices can dwe be limited to | naximum bes not vary wi hts may be ports different Il on a channe |
| hotek | Inbote. An | otek | nbotek | Anbo | h. hotek |
| Use the fo hop: | llowing spectr | um analyzer | settings to o | | e dwell time pe |
| b) RBW sl set >> 1 / c) Sweep last transminist transminist be slightly 1/hopping d) Use a visit to reduce channel. e) Detector f) Trace: C | nall be ≤ chann T, where T is t time: Set so th nission for the longer than th rate) should a rideo trigger, w nission is clear the chance of or function: Pea clear-write, sin | nel spacing a he expected hat the start o hop are clea he hopping pa chieve this. there possible ly observed. triggering wh ak. gle sweep. | and where p transmissio of the first tra rly captured eriod per ch e with a trig The trigger nen the syst | oossible RBW on time per he ansmission a d. Setting the annel (hoppi ger delay, so level might r em hops on | op. nd end of the sweep time to ng period = that the start of need adjustme an adjacent |
| | period of 0 employed transmissi 15 channe ANSI C63 The dwell transmissi a single transmissi dwell time the last transmissi dwell time the last transmits The time of determine measure to transmits of The EUT s requiremenumber of the number based on dwell time for 1, 3 or dwell time for 1, 3 or dwell time for 1, 3 or dwell time Use the for hop: a) Span: Z b) RBW sl set >> 1 / c) Sweep last transmit be slightly 1/hopping d) Use a v the transmit to reduce channel. e) Detector f) Trace: O g) Place n | period of 0.4 seconds m employed. Frequency has transmissions on a partia 15 channels are used. ANSI C63.10-2020, sect The dwell time per hop of transmission to the end a single transmission per transmission. If the devid dwell time is measured f the last transmission. The time of occupancy is over an observation period determine the time of occupancy is over an observation period based on the minimum r dwell times per channels ena the number of channels ena the number of channels ena the number of channels ena the number of channels of the transmission for the be slightly longer than the 1/hopping rate) should a d) Use a video trigger, we the transmission is clear to reduce the chance of channel. e) Detector function: Pea f) Trace: Clear-write, sin g) Place markers at the | period of 0.4 seconds multiplied by themployed. Frequency hopping system transmissions on a particular hopping 15 channels are used. ANSI C63.10-2020, section 7.8.4 The dwell time per hop on a channel transmission to the end of the last transmission. If the device has a muld well time is measured from the start the last transmission. The time of occupancy is the total time over an observation period specified determine the time of occupancy the measure both the dwell time per hop transmits on a specific channel in a generative shall be made with the number of channels enabled. If the duelt times per channel (example Blue for 1, 3 or 5 time slots) then measured dwell time with the minimum number of channel spacing a set >> 1 / T, where T is the expected c) Sweep time: Set so that the start of last transmission for the hop are clear be slightly longer than the hopping per 1/hopping rate) should achieve this. d) Use a video trigger, where possibl the transmission is clearly observed. to reduce the chance of triggering whechannel. e) Detector function: Peak. f) Trace: Clear-write, single sweep. g) Place markers at the start of the fin | period of 0.4 seconds multiplied by the number of employed. Frequency hopping systems may avoid transmissions on a particular hopping frequency 15 channels are used. ANSI C63.10-2020, section 7.8.4 The dwell time per hop on a channel is the time transmission to the end of the last transmission a single transmission per hop then the dwell time transmission. If the device has a multiple transmidwell time is measured from the start of the first the last transmission. The time of occupancy is the total time that the of over an observation period specified in the reguld determine the time of occupancy the spectrum at measure both the dwell time per hop and the nut transmits on a specific channel in a given period. The EUT shall have its hopping function enabled requirements shall be made with the minimum a number of channels than compliance with the based on the minimum number of channels. If the dwell times per channel (example Bluetooth dev for 1, 3 or 5 time slots) then measurements can dwell time with the minimum number of channels. Use the following spectrum analyzer settings to hop: a) Span: Zero span, centered on a hopping charred b) RBW shall be ≤ channel spacing and where p is et >> 1 / T, where T is the expected transmission for the hop are clearly captured be slightly longer than the hopping period per channel. (a) Use a video trigger, where possible with a trigg the transmission is clearly observed. The trigger to reduce the chance of triggering when the syst channel. (b) Detector function: Peak. (f) Trace: Clear-write, single sweep. (g) Place markers at the start of the first transmission is clearly observed. The trigger to reduce the chance of triggering when the syst channel. | ANSI C63.10-2020, section 7.8.4 The dwell time per hop on a channel is the time from the start transmission to the end of the last transmission for that hop. I a single transmission per hop then the dwell time is the durat transmission. If the device has a multiple transmissions per how dwell time is measured from the start of the first transmission the last transmission. The time of occupancy is the total time that the device dwells over an observation period specified in the regulatory require determine the time of occupancy the spectrum analyzer will the measure both the dwell time per hop and the number of times transmits on a specific channel in a given period. The EUT shall have its hopping function enabled. Compliance requirements shall be made with the minimum and with the minumber of channels enabled. If the dwell time per channel do the number of channels than compliance with the requirement based on the minimum number of channels. If the device sup dwell times per channel (example Bluetooth devices can dwe for 1, 3 or 5 time slots) then measurements can be limited to dwell time with the minimum number of channels. Use the following spectrum analyzer settings to determine the hop: a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW set >> 1 / T, where T is the expected transmission time per hop: a) Sweep time: Set so that the start of the first transmission a last transmission for the hop are clearly captured. Setting the be slightly longer than the hopping period per channel (hopping rate) should achieve this. d) Use a video trigger, where possible with a trigger delay, so the transmission is clearly observed. The trigger level might r to reduce the chance of triggering when the system hops on channel. e) Detector function: Peak. |

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| | 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 |
| Anbotek Anb | 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 |
| ootek Anbotek | 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 |
| And | 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. |

| Operating Environment. | |
|------------------------|--|
| tek Anbotek Anbot | 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. |
| Test mode: | 5: TX-π/4 DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation. |
| Anbotek Anbo. | 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation. |
| anbo. A | |

8.2. Test Setup

| oolek | | 20. VVA | - <u>- </u> - <u>C</u> | | |
|-------|----------|---------|------------------------|------|----|
| AUDO | EUT | Sp | ectrum Analy | /zer | |
| Pr | | | , | | |
| | tek nbo. | | Ann | | p. |

Anbe

Anbotek

8.3. Test Data

| Temperature: | 24.2 °C | Humidity: | 48.9 % | Atmospheric Pressure: | 102 kPa |
|--------------|---------|-----------|--------|-----------------------|---------|
| | Ker MP- | Ja. | 00 | Pr. Ser | 200 |

Anbo

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Anbot



Anbote

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9. Emissions in non-restricted frequency bands

| Test Requirement: | 47 CFR 15.247(d) |
|---|--|
| 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 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 |
| Anbotek Anbor | 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 |
| potek Anbore Anborek Anbotek Anborek Anbotek Anborek Anbotek Anbore | 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. |
| Anborek Anborek A Anborek Anborek A Anborek Anborek Anborek Anborek Anborek Anborek | 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 |
| nbotek Anbotek Anbotek Anbotek Anbotek Anbotek | 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. |
| 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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| | 4000000000440004 | |
|---------------------|------------------|---------------------|
| Report No 1 | 18220WC30149301 | FCC ID: 2BBPLPY2PKR |
| 1 top of the top of | | |
| | | |

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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 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.

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 Environment: | And ak botek Anbo, A otek nobote, And |
|----|------------------------|--|
| C | tek Anbortek Ant | 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. |
| 2 | bor hanbotek | 2: TX-π/4 DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation. |
| | Anbotek Anbotek | 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation. |
| 2 | Test mode: | 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. |
| °, | | 5: TX- $\pi/4$ DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation. |
| 2 | | 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode |
| | Anbotek Anbol P | (hopping) with 8DPSK modulation. |

9.2. Test Setup

| ek Anbo | EU | т | | Spe | ctrum | Analyzer | | |
|---------------|---------|---------|-----------|--------|--------|---------------|-----------|------------|
| Anbotek An- | potek A | nboten | Anbu | ek anb | otek | Anbor- | An- | Anbotek |
| 9.3. Test Dat | anbotek | Anboten | K Anbe | otek p | nbotek | Anbort | An | ek Anboten |
| Temperature: | 24.2 °C | Aupor | lumidity: | 48.9 % | Anbote | Atmospheric F | Pressure: | 102 kPa 🔊 |

Please Refer to Appendix for Details.

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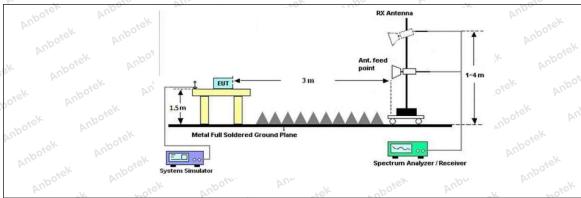
10. Band edge emissions (Radiated)

| Test Requirement: | restricted bands, as defined | In addition, radiated emissions I in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2 | ly with the woo |
|-----------------------------------|------------------------------|--|---|
| K Anbotek Anbot | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| nbotek Anbotek | 0.009-0.490 0.490-1.705 | 2400/F(kHz) 24000/F(kHz) | 300 300 100 100 100 100 100 100 100 100 |
| Anbotek Anboten | 1.705-30.0 30-88 | 30 100 ** | 30 And 3 at anbore |
| Test Limit: | 88-216 216-960 | 150 ** 200 ** | 3 3 00100 Ano |
| otek Anbotek Anb | | 500 ragraph (g), fundamental emissi ng under this section shall not b | |
| nbotek Anbotek Anbotek Anbotek | frequency bands 54-72 MH | z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt | 470-806 MHz. |
| Test Method: | ANSI C63.10-2020 section | 6.10 Anboren Andrew | Anbotek Anbote |
| Procedure: | ANSI C63.10-2020 section | 6.10.5.2 | Anbotek Anbo |

10.1. EUT Operation

| mod 2: T | K-GFSK (Non-Hopping): Κε e (non-hopping) with GFSk K-π/4 DQPSK (Non-Hoppin | K modulation. | Ant | wote |
|---------------------|--|---------------------|------------------|----------|
| Test mode: trans | | iy). Neep life EU i | in continuously | Pr. |
| | smitting mode (non-hopping | g) with π/4 DQPS | K modulation. | |
| ek spoten Anbo 3: T | K-8DPSK (Non-Hopping): k | Keep the EUT in c | ontinuously tran | smitting |
| mod | e (non-hopping) with 8DPS | SK modulation. | | |
| notek Anbor Ar | | | | |

10.2. Test Setup



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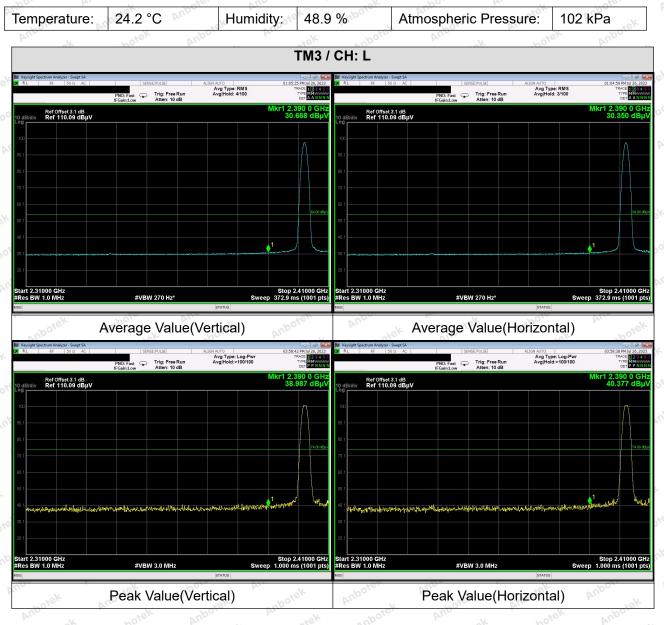
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10.3. Test Data

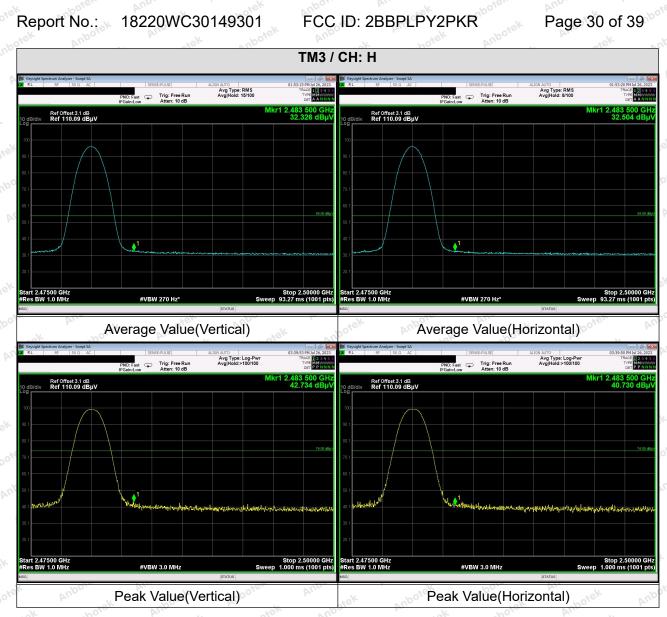


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Remark:

1. Only the worst case is recorded in the report.

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11. Emissions in restricted 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 § 15.20 | ly with the woo |
|--|--|---|-------------------------------------|
| k Anbotek Anbot | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| otek unbotek | 0.009-0.490 0.490-1.705 | 2400/F(kHz) 24000/F(kHz) | 300 30 |
| inbo. A. Anbotek | 1.705-30.0 | 30° det ave | 30 Antone |
| Anbo kek sobotek | 30-88 | 100 ** | 3 ek Anbore |
| Test Limit: | 88-216 216-960 | 150 ** 200 ** | 3 And And And |
| Anboir Air | Above 960 | 500 potek Antoo | 3 notek prib |
| nbotek Anbotek Anu nbotek Anbotek f | intentional radiators operati frequency bands 54-72 MH However, operation within t | ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt | e located in the 470-806 MHz. |
| Anbotek Anbotek | sections of this part, e.g., §§ 15.231 and 15.241. | | potek Anbor |
| Test Method: | ANSI C63.10-2020 section | 6.6.4 March 100 | Anboten And |
| Procedure: | ANSI C63.10-2020 section | 6.6.4 Anbolt Ann hotek | Anboten Anbo |

11.1. EUT Operation

| Operating Environment: | Anbor Ak hotek Anbore And stek unborek Anbor |
|--|---|
| Anbotek Anbotek Anbotek Anbotek | TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. TX-π/4 DQPSK (Non-Hopping): Keep the EUT in continuously |
| Test mode: | transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation. |
| ek soten Anbe | 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting |
| Antick | mode (non-hopping) with 8DPSK modulation. |
| potek Anbor Ar | stek unboten And ak botek Anbor An |
| the shoter | Anbo Landek Anbore Ann Lek poorer Anbo |

Shenzhen Anbotek Compliance Laboratory Limited

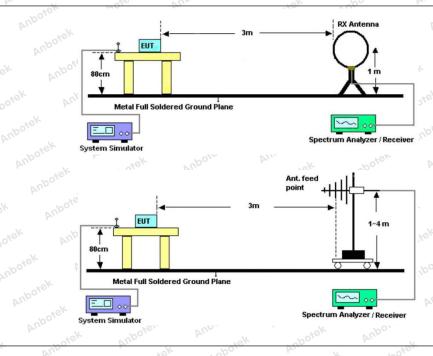
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11.2. Test Setup



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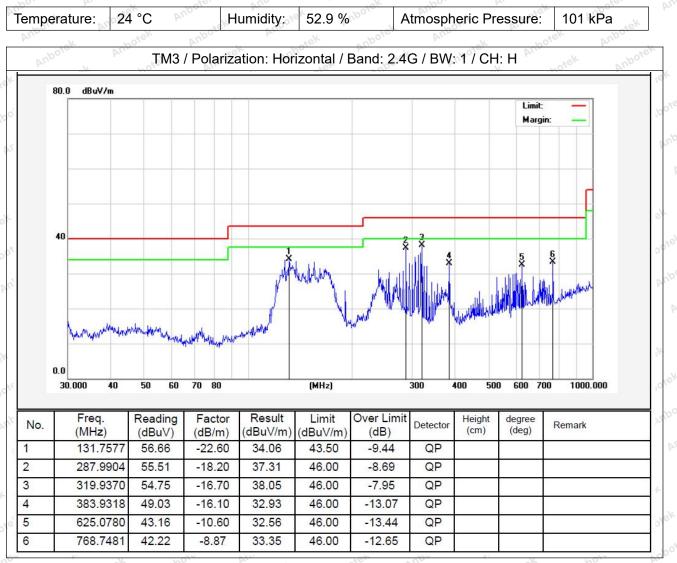
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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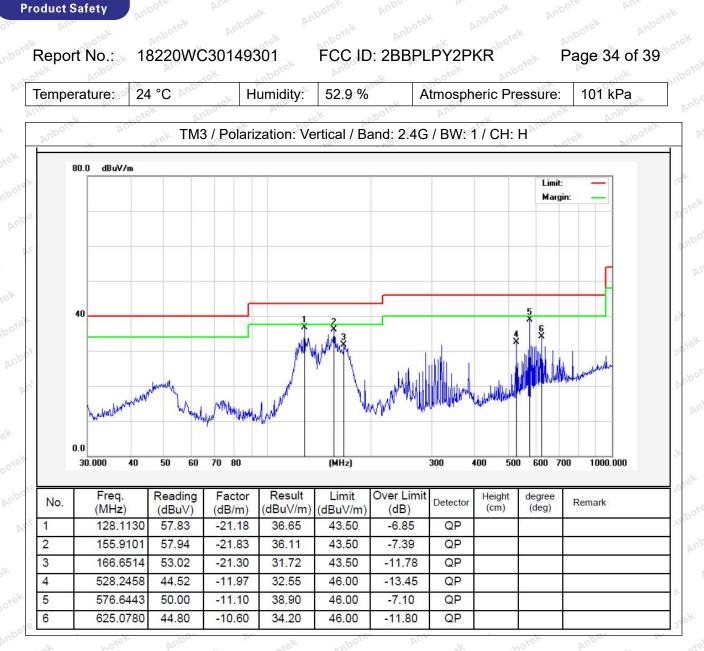
11.3. Test Data



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Note: Only record the worst data in the report.

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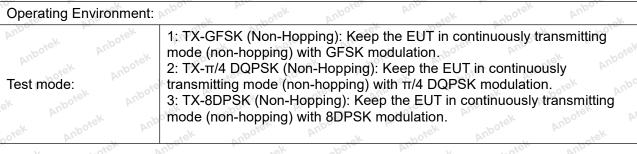
Report No.: 18220WC30149301 FCC ID: 2BBPLPY2PKR

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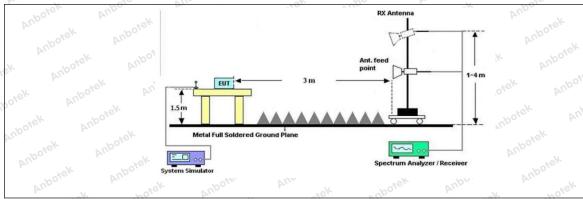
12. Emissions in restricted frequency bands (above 1GHz)

| Test Requirement: | | ons which fall in the restricted background by the radiated emission $\overline{b}(c)$. | |
|---|---|---|-------------------------------------|
| k Anbotek Anbot | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| v hotek | 0.009-0.490 | 2400/F(kHz) | 300 Anboro |
| nboten And | 0.490-1.705 | 24000/F(kHz) | 30 |
| arek anborer | 1.705-30.0 | 30° All atek mbo | 30 |
| Anbo | 30-88 | 100 ** | 3 et noore |
| T. Hoten Anbe | 88-216 | 150 ** Noter N | 3 |
| Test Limit: | 216-960 | 200 ** | 3 boten And |
| Aupo, M. | Above 960 | 500 Martek Mabo | 3 dek pro |
| otek Anbotek Anb nbotek Anbotek I Anbotek Anbotek | intentional radiators operati frequency bands 54-72 MH | ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt | e located in the 470-806 MHz. |
| abotek Anbo | §§ 15.231 and 15.241. | Ant abotek An | bu h. hotek |
| Test Method: | ANSI C63.10-2020 section | 6.6.4 potek | Anboten And |
| Procedure: | ANSI C63.10-2020 section | 6.6.4 Antonia Antonia | Anboten Anbo |
| Procedure: | ANSI C63.10-2020 section | 6.6.4 And the Andrew | Anbore Ans |

12.1. EUT Operation



12.2. Test Setup



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FCC ID: 2BBPLPY2PKR

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12.3. Test Data

| Temperature: | 24.2 °C | Humidity: | 48.9 % | Atmospheric Pressure: | 102 kPa |
|--------------|---------|-----------|--------|-----------------------|---------|
| AUR | . As | 100. P. | V SON | DUP. | ek soo. |

| | TM3 / CH: L | | | | | | | |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|--------------|--|--|
| Peak value: | | | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization | | |
| 4804.00 | 28.81 | 15.27 | 44.08 | 74.00 | -29.92 | Vertical | | |
| 7206.00 | 29.70 | 18.09 | 47.79 | 74.00 | -26.21 | Vertical | | |
| 9608.00 | 31.08 | 23.76 | 54.84 | 74.00 | -19.16 | Vertical | | |
| 12010.00 | Anbote * Ar | in the second | abotek Anb | 74.00 | otek Anbott | Vertical | | |
| 14412.00 | Anbo*ek | Anbo | -botek P | 74.00 | atek ant | Vertical | | |
| 4804.00 | 29.05 | 15.27 | 44.32 | 74.00 | -29.68 | Horizontal | | |
| 7206.00 | 30.48 | 18.09 | 48.57 | 74.00 | -25.43 | Horizontal | | |
| 9608.00 | 28.94 | 23.76 | 52.70 | 74.00 | -21.30 | Horizontal | | |
| 12010.00 | potek * Anbo | n h | rek Anbore | 74.00 | k anborek | Horizontal | | |
| 14412.00 | botek* An | pore Ann | atek anbr | 74.00 | at abote | Horizontal | | |

Average value:

| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
|--------------------|-------------------|---|--------------------|--|--------------------|--------------|
| 4804.00 | 18.19 | 15.27 | 33.46 | 54.00 | -20.54 | Vertical |
| 7206.00 | 18.73 | 18.09 | 36.82 | 54.00 | -17.18 | Vertical |
| 9608.00 | 20.10 | 23.76 | 43.86 | 54.00 | -10.14 | Vertical |
| 12010.00 | hot tot | Anboten An | sek s | o ^{nex} 54.00 pm ^{boo} | -k - ve | Vertical ** |
| 14412.00 | And * tek | nbotek | Anbo, Ar | 54.00 | bote. And | Vertical |
| 4804.00 | 17.40 | 15.27 | 32.67 | 54.00 | -21.33 | Horizontal |
| 7206.00 | 19.54 | 18.09 | 37.63 | 54.00 | -16.37 | Horizontal |
| 9608.00 | 18.25 | 23.76 | 42.01 | 54.00 | -11.99 | Horizontal |
| 12010.00 | tek * | otek Anbor | ak not | 54.00 | And | Horizontal |
| 14412.00 | hoo * | botek Ant | ore And | 54.00 | ek Anbo | Horizontal |
| | | Clark Contraction of the Clark Contraction of | 10. | 69 M | N | 10 |

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Report No.:

14646.00

18220WC30149301

| otek Anbor | Annatek | anboten | And | botek | Anbor A | |
|--------------------|-------------------|--|--------------------|-------------------------|-------------------------|--------------|
| | | - | TM3 / CH: M | | | |
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4882.00 | 28.83 | 15.42 | 44.25 | 74.00 | -29.75 -29.75 | Vertical |
| 7323.00 | 29.55 | 18.02 | 47.57 | 74.00 | -26.43 | Vertical |
| 9764.00 | 30.09 | 23.80 | 53.89 | 74.00 | -20.11 | Vertical |
| 12205.00 | ek * nbotek | Anbo. | h notek | 74.00 | And | Vertical |
| 14646.00 | * | rek Anbore | And | 74.00 | Anbo | Vertical |
| 4882.00 | 28.75 | 15.42 | 44.17 | 74.00 | -29.83 | Horizontal |
| 7323.00 | 30.47 | 18.02 | 48.49 | 74.00 | -25.51 mo st | Horizontal |
| 9764.00 | 28.64 | 23.80 | 52.44 | 100 ¹⁰ 74.00 | -21.56 | Horizontal |
| 12205.00 | * * tek | Anbore | And | 74.00 | NUPO. W. | Horizontal |
| 14646.00 | AG* | Anbotek | Anbo | 74.00 | Anbore | Horizontal |
| Average value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4882.00 | 17.92 | 15.42 | 33.34 | 54.00 | -20.66 | Vertical |
| 7323.00 | 18.83 | 18.02 | 36.85 | 54.00 | -17.15 And | Vertical |
| 9764.00 | 19.96 | 23.80 | 43.76 | 54.00 | -10.24 | Vertical |
| 12205.00 | K *nbor | Alter | anboten | 54.00 | abotek | Vertical |
| 14646.00 | otek * Anboth | And | ek obotek | 54.00 | Althotek | Vertical |
| 4882.00 | 17.31 | o ^{rek} 15.42 m ^{b0} | 32.73 | 54.00 | -21.27 | Horizontal |
| 7323.00 | 19.10 | 18.02 | 37.12 | 54.00 | -16.88 | Horizontal |
| 9764.00 | 18.76 | 23.80 | 42.56 | 54.00 | bote -11.44 prof | Horizontal |
| 12205.00 | Anboten | And | nbotek | 54.00 | hotek A | Horizontal |
| | | . OV | 12.1. | 6.62.N | | N/ |

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54.00



Horizontal

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| | | - | TM3 / CH: H | | | |
|--------------------|-------------------|------------------|---|---------------------|--------------------|--------------|
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4960.00 | 29.10 | 15.58 | 44.68 | 74.00 | -29.32 | Vertical |
| 7440.00 | 29.56 | 17.93 | 47.49 | 74.00 | -26.51 | Vertical |
| 9920.00 | 30.64 | 23.83 | 54.47 | 74.00 | -19.53 | Vertical |
| 12400.00 | P* wotek | Anbotet | Anbe | 74.00 | Anbore | Vertical |
| 14880.00 | * Anb | ek spotel | Aupor | 74.00 | Anboten | Vertical |
| 4960.00 | 28.82 M | 15.58 | 44.40 ⁰⁰¹⁶ | 74.00 | -29.60 | Horizontal |
| 7440.00 | 30.50 | 17.93 | 48.43 | 74.00 | -25.57 | Horizontal |
| 9920.00 | 29.32 | 23.83 | 53.15 | 74.00 | -20.85 | Horizontal |
| 12400.00 | And * | abotek | Anbor | 74.00 | Inboten Ant | Horizontal |
| 14880.00 | Althor- | pri hotek | Anboten | 74.00 | nbotek | Horizontal |
| Average value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4960.00 | 19.04 | 15.58 | 34.62 | 54.00 | -19.38 | Vertical |
| 7440.00 | 19.84 | 17.93 | 37.77 | 54.00 | -16.23 | Vertical |
| 9920.00 | 20.51 | 23.83 | 44.34 | 54.00 | -9.66 | Vertical |
| 12400.00 | k nbotek | Anbor | pri notek | 54.00 | And | Vertical |
| 14880.00 | with whoth | anboro. | Ann | 54.00 | Anbor | Vertical |
| 4960.00 | 18.75 | 15.58 | 34.33 | 54.00 | -19.67 | Horizontal |
| 7440.00 | 20.47 M | 17.93 | o ^{to⁶ 38.40 ph⁰⁰} | 54.00 | -15.60 | Horizontal |
| 9920.00 | 18.66 | 23.83 | 42.49 | 54.00 ^{MM} | -11.51 | Horizontal |
| 12400.00 | * tek | Anbore | Annotek | 54.00 | loo ha | Horizontal |
| 267 | | | WV. | | | |

Remark:

14880.00

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

54.00

3. Only the worst case is recorded in the report.

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Horizontal



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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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