

Address

FCC ID: 2AV7N-MEDO Report No.: 18220WC30222002 Page 1 of 39

FCC Test Report

GUANGZHOU RANTION TECHNOLOGY CO., LTD. Applicant

Room 7002 and 7003, 7th Floor, Digital

Entertainment Industrial Park, Greater Bay Area,

No. 28 Huangpu Park West Road, Huangpu

District, Guangzhou, China.

DONNER MEDO PORTABLE SYNTHESIZER **Product Name**

Report Date Nov. 10, 2023

Shenzhen Anbotek Compliance Laboratory Limited











Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 2 of 39

Contents

| 1. Gene | ral Information | npotek A | 100, | bi. | <u> </u> | ie. I | ⁷ UD. | otek (|
|----------------------|---|---------------|----------------------|----------------------|--------------------|--------------|---------------------|-------------------|
| 1.1 | . Client Information . Description of Device | | Vupo _{te} , | Anu | , o.y | botek | Aupo, | W. Whole |
| 1.3 | Auxiliary Equipment | t Used During | Test | | 1010r | AUP | r | de Yar |
| 14 | Operation channel I | iet | | | | | | |
| 0 15 | Description of Test | Modes | | | | | | La Office |
| 1.0 1.7 | . Measurement once Test Summary | rtainty | | hotek | Aupore | | rek | |
| 1.8 | . Measurement Unce . Test Summary . Description of Test | Facility | 00% | Vu. | ^{lodo} | 6. b | Up | 1 |
| 1 1 0 | MDia alaina ah | | | | | | | 12/11 |
| A'1.10 | 0. Test Equipment Lis | st | P. Polsk | | | otek | Vupake _k | 1 |
| 2. Anter | na requirement | Nyoro | VL. | 3/4 | ojek | 100 Var | ,00 | , ₀₂ , |
| 2.1 | Disclaimer | h Anbotek | k Aupo | otek r | Anbotek | Pupore | ek bu. | |
| 3. Cond | ucted Emission at A0 | C power line | An' | 7.ek | | | bi | 1 |
| 3.1 | ucted Emission at A0 . EUT Operation Test Setup | | ,otek | VUpo, | | 77R4 | 10046r. | .Anv1 |
| 3.2 | . Test Setup | ,00°, | ~0 ⁷ 8/4 | Aupoter | | -xek | yokek | |
| Angio | Test Setup Test Data pied Bandwidth EUT Operation Test Setup | Aupore | Xeh | " pot | Sk | | hotek | Anbotel |
| 4. Occu | pied Bandwidth | botek | | Nr N | -0 ¹⁸ / | YUPOJE, | 24 | 1 |
| 4.1 | EUT Operation | | Aupore | | | - Cupotek | | 18 |
| | | | | | | | | |
| 5. Maxir | num Conducted Out | out Power | zek. | nbotek | Anbor | r bi | potek | Anbores 20 |
| Anbore 5.1 | FUT Operation | ipotek Aup | | | | | | Anboten 2 |
| 5.2 | . Test Setup | A | 'upo, | | y 200 | o. | V. | 2 |
| 5.3 | Test Data | V., | - Alipoter | And | | Notek | bupor | 2 |
| 6. Chan | Test Setupnet Datanel Separation | Aug. Fek | | Anb | b | | poboti | 2 |
| 6.1 | . EUT Operation | Anbo. | p | itek (| Npoie, | Ans | Vo | otek 2 |
| o ^{tek} 6.2 | . Test Setup | ek Popole. | Ans | | botek | Anbo. | | 2 |
| 6.3 | . Test Data | | 10 h | α ^{lo} ~ | | | ,0 ⁷ | 2 |
| 7. Numb | per of Hopping Frequ | encies | -101e/t | Pupo _{se} , | An | 36× | botek | 2 |
| Anbo. 1 | . EUT Operation | Pupole V | | Kilpote | Yup, | ····· | | 2 |
| 7.2 | Test Setup | boter | | /0 | 4ej | ,b0,00 | Yu. | 2 |
| 7.3 | . Iest Data | | Anbar | 4 | · otek | Aupolet. | Kup | |
| 8. Dwell | Time | Al., | AURO | | up | 0000 | y | 24 |
| 8.1 | EUT Operation | Anba | .e. | 104ek | - Mpos | <i>b</i> 11. | | 2 |
| 8.2 2 a | . Iest Setup | olok Vipo | -/r | ~ ~otek | AUDOIGH | | _rek | 25 |
| 9 Emis | EUT Operation Test Setup Test Data Time EUT Operation Test Setup Test Data Test Data Test Data Sions in non-restricte EUT Operation Test Setup Test Data | d frequency b | ands - | Anti- | Anbo | iek l | 'upo, | |
| 0 | ELIT Operation | Sotek | Anbore | Ann | ek | botek | Anbo | ر د ا |
| 9.2 | . Test Setup | KUA | , potek | VUDO | | Yoron. | Aupote | 2 |
| 9.3 | . Test Data | Aupo, | | ek ps | 100re | Vu. | کوپیا | |





| Report No.: 18220WC30222002 | FCC ID: 2AV7N-MEDO | Page 3 of 39 |
|---|---|--------------|
| 10. Band edge emissions (Radiated) | anborek Anbore An | 28 |
| 10.1. EUT Operation10.2. Test Setup | Anborek Anborek An | 28 28 |
| 10.3. Test Data | | 29 |
| 11. Emissions in frequency bands (below 1GHz). | olek pullogram Ami | |
| 11.1. EUT Operation 11.2. Test Setup | upotek Popotek Vupo | 31 32 |
| 11.3. Test Data | | 33 |
| 12. Emissions in frequency bands (above 1GHz) | Modek Anbo, Ar | |
| 12.1. EUT Operation | Andree Andree An | 35 |
| 12.2. Test Setup 12.3. Test Data | 1900 A | 35 |
| 7 1 1 2 1 2 1 7 2 1 3 2 1 3 1 1 1 1 3 1 3 3 1 3 1 1 1 1 | obotek Anbotek Anbo | 39 |
| APPENDIX II EXTERNAL PHOTOGRAPH | | 39 30 |





Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 4 of 39

TEST REPORT

Applicant : GUANGZHOU RANTION TECHNOLOGY CO., LTD

Manufacturer : GUANGZHOU RANTION TECHNOLOGY CO., LTD.

Product Name : DONNER MEDO PORTABLE SYNTHESIZER

Test Model No. : MEDO

Reference Model No. : N/A

Trade Mark : DONNER

Rating(s) : Input: 5V= 1A(with DC 3.7V, 2000mAh battery inside)

Test Standard(s) : 47 CFR Part 15.247

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: | Oct. 18, 2023 |
|---|--------------------------------|
| Anbotek Anbotes Ans hotek Anbotek | |
| Date of Test: | Oct. 20, 2023 to Oct. 30, 2023 |
| Anbotek Anbotek Anbotek Anbotek Anbotek | Stella Zhu |
| Prepared By: | poter / Colorek Anborr An |
| | (Stella Zhu) |
| Anbotek Anbotek Anbotek Anbotek | Idward pan |
| Approved & Authorized Signer: | ek abotek Aubo, |
| k Anboter Anto | (Edward Pan) |



Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 5 of 39

Revision History

| | Report Version | Description | Issued Date |
|----|--------------------------|-------------------------|----------------------|
| | Anbore R00 botek An | Original Issue. | Nov. 10, 2023 |
| 76 | W. Aupotek Aupotek | Anbotek Anbotek Anbotek | K abotek Anbotek Ant |
| 10 | oro Alla Aupotek Aupoter | Anbotek Anbotek Anbot | otek Anbotek Anbotes |





Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 6 of 39

1. General Information

1.1. Client Information

| - A [] P | OF NO. | | | | |
|---|--|--|--|--|--|
| Applicant | : GUANGZHOU RANTION TECHNOLOGY CO., LTD. | | | | |
| Address : Room 7002 and 7003, 7th Floor, Digital Entertainment Industrial Greater Bay Area, No.28 Huangpu Park West Road, Huangpu Guangzhou, China. | | | | | |
| Manufacturer : GUANGZHOU RANTION TECHNOLOGY CO., LTD. | | | | | |
| Address | Room 7002 and 7003, 7th Floor, Digital Entertainment Industrial Park, : Greater Bay Area, No.28 Huangpu Park West Road, Huangpu District, Guangzhou, China. | | | | |
| Factory | : Jiangmen Duole Technology Co., Ltd. | | | | |
| Address | Building 9, No. 52, Baotang Road, Tangxia Town, Pengjiang District, Jiangmen City, China. | | | | |

1.2. Description of Device (EUT)

| Product Name | : | DONNER MEDO PORTABLE SYNTHESIZER |
|------------------------|---|---|
| Test Model No. | : | MEDO tek Anborek Anborek Anborek Anborek |
| Reference Model No. | : | N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek |
| Trade Mark | : | DONNER And |
| 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 potek Anbotek Anbotek Anbotek Anbotek |
| RF Specification | | |
| Operation Frequency | : | 2402MHz to 2480MHz |
| Number of Channel | : | 79 ak Anbotek Anbotek Anbotek Anbotek |
| Modulation Type | : | GFSK, π/4 DQPSK, 8DPSK |
| Antenna Type | : | PCB Antenna |
| Antenna Gain(Peak) | : | 1.9 dBi otek Anbotek Anbotek Anbotek Anbotek Anbotek |
| Domorki of CT |) | JK Poly William Jeen "Upp |

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.







Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 7 of 39

1.3. Auxiliary Equipment Used During Test

| Title Manufacturer | | Model No. | Serial No. | |
|--------------------|--------|-----------|-----------------|--|
| Xiaomi 33W adapter | Xiaomi | MDY-11-EX | SA62212LA04358J | |





Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 8 of 39

1.4. Operation channel list

| hoge. | | | | | | | |
|-----------------------|--------------------|----------------------|--------------------|------------|--------------------|---------------|--------------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| P.O. O. Sep | 2402 | 20 | 2422 | 40 borek | 2442 | 60 | 2462 |
| · 1 _{Anbote} | 2403 | × 21 00° | 2423 | 41 | 2443 hote | 61 | 2463 |
| tek 2 Anb | 2404 | 22 | otek 2424 Mbo | 42 | 2444 | 62 And | 2464 |
| New 3 | 2405 | 23 | 2425 | 43 | 2445 | 63 | 2465 |
| 4 | 2406 | ^{nb0} 24 | 2426 | Arrbo144 | 2446 | 64 | 2466 |
| Anbot 5 | 2407 | 25 | 2427 | 45 | 2447 | 65 | 2467 |
| A 6 | 2408 | 26 | 2428 | 46 | 2448 | 66 | 2468 |
| Zupore. | 2409 | 27, noote | 2429 | 47 bot | 2449 | 67 | 2469 |
| iek 8 Aupo | 2410 | 18 NO | 2430 | 48 | ote* 2450 Anb | 68 | 2470 |
| notek 9 | 2411 And | 29 | 2431 | 49 | 2451 | ⁶⁹ | 2471 |
| 10 | 2412 | 30 | 2432 | Anborso | 2452 | 70 no | 2472 |
| And 11,ek | 2413 | Anba 31 | 2433 | 51 | 2453 | 7.1 | 2473 |
| 12 | 2414 | 32 | 2434 | 52° | 2454 | 72 | 2474 |
| 13 | 2415 | 33 ^{1/2016} | 2435 | × 53, nbot | 2455 | 73 | 2475 botto |
| 14 Anbo | 2416 | rek 34 Anb | 2436 | sex 54 m | 2456 Maria | 74 | 2476 And |
| otek 15 An | 2417 | 35 | 2437 | 55 | 2457 | 75 | 2477 |
| 16 | 2418 | 36 | 2438 | 56 | 2458 | Anbot 76 | 2478 |
| 1704 | 2419 | And 37, 64 | 2439 | Anbore | 2459 | 777 | 2479 |
| 18 | 2420 | 38 | 2440 | 58 | 2460 | 78 | 2480 |
| 19 | 2421 | 39 | 2441 | 59 nbote | 2461 | ek - Mbot | - Anbor |

1.5. Description of Test Modes

| Pretest Modes | Descriptions |
|--------------------|---|
| Anhotek TM1°tek | Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. |
| Anborek TM2 nborek | Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation. |
| TM3 | Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation. |
| TM4 | Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. |
| TM5 | Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation. |
| And TM6 borek | Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation. |





Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 9 of 39

1.6. Measurement Uncertainty

| Parameter | Uncertainty |
|--|---|
| Conducted emissions (AMN 150kHz~30MHz) | 3.4dB |
| Occupied Bandwidth | 925Hz Anborek Anborek |
| Conducted Output Power | 0.76dB |
| Conducted Spurious Emission | 1.24dB |
| Radiated spurious emissions (above 1GHz) | 1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB |
| Radiated emissions (Below 30MHz) | 3.53dB |
| Radiated spurious emissions (30MHz~1GHz) | Horizontal: 3.92dB; Vertical: 4.52dB |

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.





FCC ID: 2AV7N-MEDO Report No.: 18220WC30222002 Page 10 of 39

1.7. Test Summary

| Test Items | Test Modes | Status |
|---|-------------------|------------------|
| Antenna requirement | Anbotek / Anboten | P |
| Conducted Emission at AC power line | Mode1,2,3 | P ^{Anb} |
| Occupied Bandwidth | Mode1,2,3 | P An |
| Maximum Conducted Output Power | Mode1,2,3 | upote Pk |
| Channel Separation | Mode4,5,6 | Wupos |
| Number of Hopping Frequencies | Mode4,5,6 | AP OF |
| Dwell Time | Mode4,5,6 | Panbo |
| Emissions in non-restricted frequency bands | Mode1,2,3,4,5,6 | P Ant |
| Band edge emissions (Radiated) | Mode1,2,3 | ipoles B |
| Emissions in frequency bands (below 1GHz) | Mode1,2,3 | Anbore P |
| Emissions in frequency bands (above 1GHz) | Mode1,2,3 | ATP |
| Note: P: Pass N: N/A, not applicable | Anbotek Anbotek | tek Aupone |





Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 11 of 39

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

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

- The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- The test report is invalid if there is any evidence and/or falsification.
- The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 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.
- 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.
- 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.





Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,



Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 12 of 39

1.10. Test Equipment List

| Cond | ucted Emission at A | C power line | Aupo | k spotel | Anbore | An |
|---------|--|------------------|-----------|------------------|--------------|--------------|
| 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 |
| 2 5016K | 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 | rek /Anbotek | Anborotek |

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
|---------|-----------------------------------|-----------------|-----------|-----------------|------------|--------------|
| 1 | Power Meter | Agilent | N1914A | MY500011 02 | 2023-10-20 | 2024-10-19 |
| 2 | DC Power Supply | IVYTECH | IV3605 | 1804D360 510 | 2023-10-20 | 2024-10-19 |
| 3 | Spectrum Analyzer | Rohde & Schwarz | FSV40-N | 101792 | 2023-05-26 | 2024-05-25 |
| Anbarab | MXA Spectrum Analysis | KEYSIGHT | N9020A | MY505318 23 | 2023-02-23 | 2024-02-22 |
| 5 | Oscilloscope | Tektronix | MDO3012 | C020298 | 2023-10-12 | 2024-10-11 |
| o⊁ 6 | MXG RF Vector Signal Generator | Agilent | N5182A | MY474206 47 | 2023-02-23 | 2024-10-22 |

Hotline

www.anbotek.com.cn

400-003-0500



Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 13 of 39

| ote. | And | otek pupo. | N. ak | -boye. | VU _P | ysio |
|------------------|---|------------------|----------------------|-----------------|-----------------|--------------|
| | edge emissions (Ra sions in frequency ba | | Auporgoiek | Anbotek | Aupoter. | Anbotek |
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 00 | EMI Test Receiver | Rohde & Schwarz | ESR26 | 101481 | 2023-10-12 | 2024-10-11 |
| 2 | EMI Preamplifier | SKET Electronic | LNPA- 0118G-45 | SKET-PA- 002 | 2023-10-12 | 2024-10-11 |
| 3 | Double Ridged Horn Antenna | SCHWARZBECK | BBHA 9120D | 02555 | 2022-10-16 | 2025-10-15 |
| nbole 4 | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | Anbotek | Aupolek |
| 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 |
| e ^k 7 | Amplifier | Talent Microwave | TLLA18G40 G-50-30 | 23022802 | 2023-05-25 | 2024-05-24 |

| Emis | sions in frequency ba | ands (below 1GHz) | Anborek | Augs Polek | Anbotek | Anbore |
|-------|-----------------------------|-------------------|-----------|------------|------------|--------------|
| 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 |
| 34 | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | 345 | 2022-10-23 | 2025-10-22 |
| Antel | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | PU. Joseph | Andrek |



Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 14 of 39

2. Antenna requirement

Test 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 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 shall be 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.





FCC ID: 2AV7N-MEDO Report No.: 18220WC30222002 Page 15 of 39

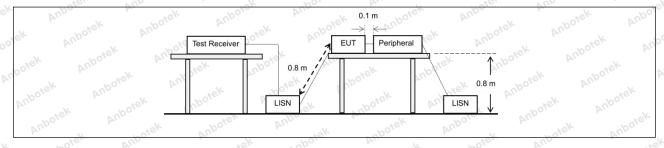
3. Conducted Emission at AC power line

| Test Requirement: | Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the reback onto the AC power line on ar band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN). | that is designed to be con adio frequency voltage tha by frequency or frequencie t exceed the limits in the fo | nected to the at is conducted as, within the collowing table, as |
|-------------------|--|---|--|
| spoick Aupon | Frequency of emission (MHz) | Conducted limit (dBµV) | V otek |
| YII. | Anbore Anbore | Quasi-peak | Average |
| Aupor Air | 0.15-0.5 | 66 to 56* | 56 to 46* |
| Test Limit: | 0.5-5 | 56 Hotek An | 46 |
| Will work | 5-30 And 1 | 60 | 50 ter And |
| k Anbors Ar. | *Decreases with the logarithm of t | ne frequency. | |
| Test Method: | ANSI C63.10-2020 section 6.2 | Projek Aupore | And |
| Procedure: | Refer to ANSI C63.10-2020 section line conducted emissions from unline conducted emissions from the conducted emission | | |

3.1. EUT Operation

| Operating Envi | ronment: | Aupo, ok | bojek . | Aupote, | And | nboiek | Anborr |
|----------------|--|--|--|------------------------|--|-----------------|--------|
| Test mode: | hopping) w 2: TX-π/4-I (non-hoppi 3: TX-8DP | rith GFSK ma DQPSK (Nor ng) with π/4 | odulation. n-Hopping): K DQPSK mod oping): Keep | eep the EU ulation. | ontinuously tran T in continuousl continuously tra | ly transmittino | g mode |

3.2. Test Setup





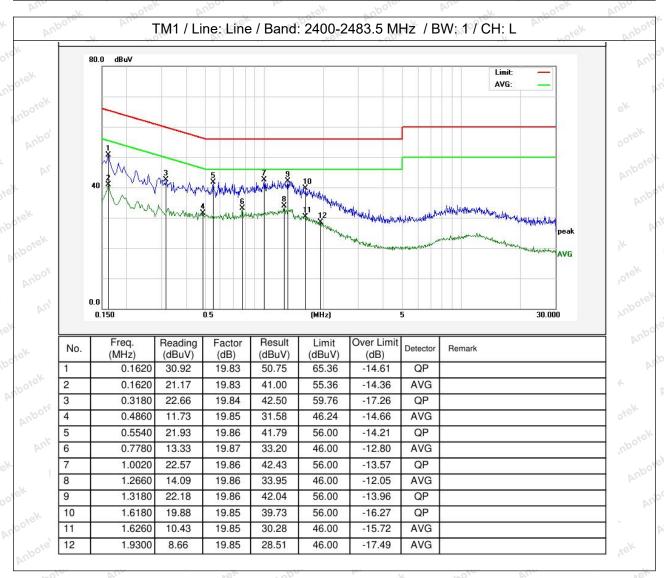
Hotline



Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 16 of 39

3.3. Test Data

Temperature: 22.1 °C Humidity: 53.9 % Atmospheric Pressure: 101 kPa

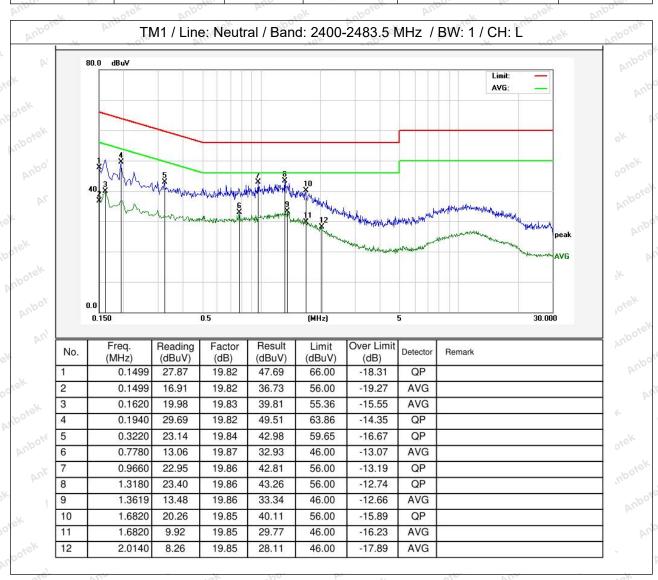






Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 17 of 39

Temperature: 22.1 °C Humidity: 53.9 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 18 of 39

4. Occupied Bandwidth

| Test Requirement: | 47 CFR 15.215(c) |
|---|--|
| Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | 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. |
| Anbotek | 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. |
| Anbotek Anbotek | 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. |
| otek Aupotek Au | 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 |
| Anbotek Anbotek Anbotek Anbotek Anbotek | 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 |
| k Anbotek Anbotek Anbot | total is reached; that 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 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 |

4.1. EUT Operation

| | Operating Envir | onment: | Anboiek | Aupo. | w. spotek | Anbore. | Yun | anboie |
|----|-----------------|-------------------------|---------|-------|--------------|----------------|-----------------|--------|
| e) | Test mode: | 1: TX-GFSK hopping) wit | | | ne EUT in co | ntinuously tra | ansmitting mode | (non- |





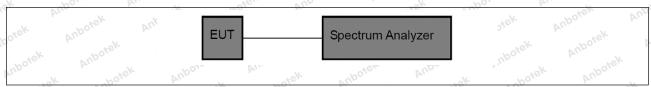


Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 19 of 39

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



4.3. Test Data

| Temperature: | 26.3 °C | AUD | Humidity: | 48 % | DUPO. | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----|---------------|------|-------|----------------------------|----------|
| Tomporataro. | _0.0 0 | | i idiliidity. | 1000 | | 7 turioopiiorio i roccaro. | 101 Ki G |





Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 20 of 39

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 |
| 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: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. |
| Procedure: | 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 external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in the test report. |
| Anbotek Anbotek Anbotek Anbotel | 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

| 70 | Operating Envi | nment: Anborek Anborek Anborek Anborek Anborek Anborek | . |
|----|----------------|--|---------------------|
| 7 | 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 mod (non-hopping) with π /4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation. | otek de mbote |

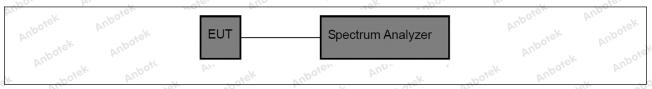






Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 21 of 39

5.2. Test Setup



5.3. Test Data

| | 20.2 00 | 11 | 10.000 | Pil. | 400 1.5 |
|--------------|---------|-----------|--------|-----------------------|---------|
| Temperature: | 26.3 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |





Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 22 of 39

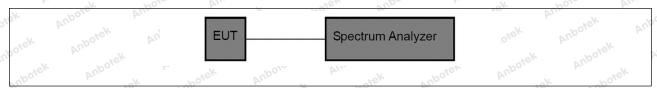
6. Channel Separation

| india in its | 1 700, W. A. 2046, W.D. 1 36K 700, |
|---|--|
| Test Requirement: | 47 CFR 15.247(a)(1) |
| Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | 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 |
| Anborek | 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. 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 Envir | ronment: | Aug | abotek | Aupor | Purplek | Anboi |
|-----------------|---|--|------------|---------------|----------------|-------|
| Test mode: | 4: TX-GFSK (Hopping): with GFSK modulation, 5: TX-π/4-DQPSK (Hopping) with π/4 DQF 6: TX-8DPSK (Hopping with 8DPSK modulation | pping): Keep the SK modulation.): Keep the EU | EUT in con | tinuously tra | nsmitting mode | 98k |

6.2. Test Setup



6.3. Test Data

| Temperature: | 26.3 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|
| 17 | 2010 | , | 10, | 1 17" | 0/10 |









Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 23 of 39

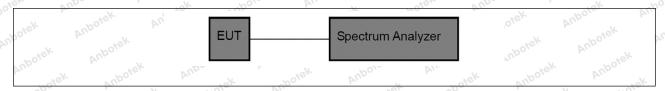
7. Number of Hopping Frequencies

| Test Requirement: | 47 CFR 15.247(a)(1)(iii) |
|---|---|
| Test Limit: Anbotek Anbotek Anbotek Anbotek | 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 |
| 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 Envi | ronment: Anborek Anborek Anborek Anborek |
|----------------|---|
| 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. |

7.2. Test Setup



7.3. Test Data

| Temperature: 26.3 °C | Humidity: 4 | 8 % | Atmospheric Pressure: | 101 kPa |
|----------------------|-------------|-----|-----------------------|---------|
|----------------------|-------------|-----|-----------------------|---------|









Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 24 of 39

8. Dwell Time

| Test Requirement: | 47 CFR 15.247(a)(1)(iii) |
|--|--|
| Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek | 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 |
| | 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 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. |
| Anborek Anborek Anborek 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 with 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 per |
| | 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. 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 = 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 the end of the last transmission. The dwell time per hop is the time between |









Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 25 of 39

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

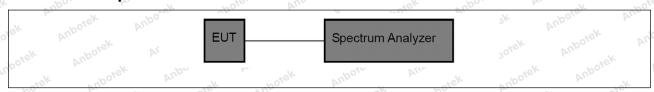
Operating Environment:

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.
- 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

8.2. Test Setup



8.3. Test Data

| Temperature: | 26.3 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa | 9 |
|--------------|---------|-----------|------|-----------------------|---------|---|
| | | | | | | |





Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 26 of 39

9. Emissions in non-restricted frequency bands

| Test Requirement: | 47 CFR 15.247(d), 15.209, 15.205 |
|---|---|
| Anbotek Anbotek Anbotek Anbotek Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | 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 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 |
| | 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. |
| | 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. |
| | 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 exception that the resolution bandwidth shall be 100 kHz, video bandwidth |







Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 27 of 39

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.

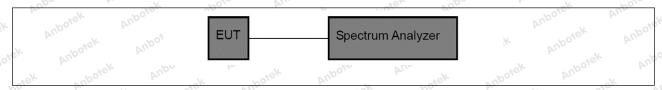
9.1. EUT Operation

Operating Environment:

- 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.
- 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.

9.2. Test Setup

Test mode:



9.3. Test Data

| Tempera | ture: 26.3 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|---------|---------------|-----------|------|-----------------------|---------|
|---------|---------------|-----------|------|-----------------------|---------|







Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 28 of 39

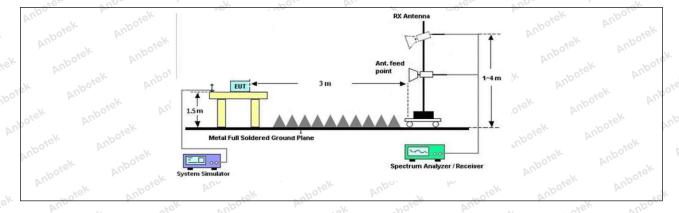
10. Band edge emissions (Radiated)

| 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 |
|--|---|---|-------------------------------------|
| k Aupotek Wilson | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| o. p. ciek | 0.009-0.490 | 2400/F(kHz) | 300 Mbore |
| aborek Anbo | 0.490-1.705 | 24000/F(kHz) | 30 Lotek |
| atek anboter | 1.705-30.0 | 30° , Albo | 30 |
| | 30-88 | 100 ** | 3,ek nbore |
| T- Haboter And | 88-216 | 150 ** | 3 |
| Test Limit: | 216-960 | 200 *** | 3 botes And |
| | Above 960 | 500 Morek Ambo | 3 rek ont |
| nbotek Anbotek Anbotek Anbotek 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 d hese frequency bands is permitt | e located in the 470-806 MHz. |
| Test Method: | ANSI C63.10-2020 section | 6.10 Andrew | Anbore. And |
| Procedure: | ANSI C63.10-2020 section | 6.10.5.2 | Aupoten Aup |

10.1. EUT Operation

| Operating Envi | ronment: | hotek Ar | poter. And | | anbotek | Anbo. |
|----------------|---|---|---------------------------|------------|-------------|--------------|
| Test mode: | hopping) with GFS 2: TX-π/4-DQPSk (non-hopping) wit | K (Non-Hopping): K h π/4 DQPSK mod n-Hopping): Keep t | eep the EUT i ulation. | n continuo | usly transm | nitting mode |

10.2. Test Setup





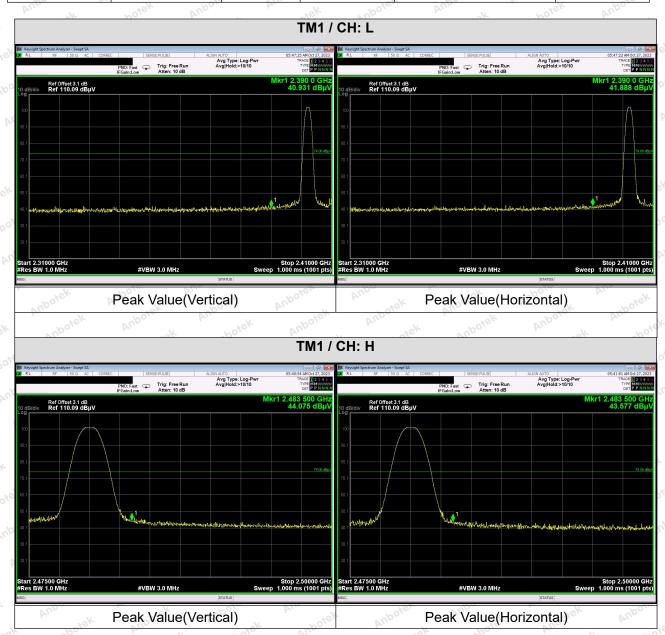




Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 29 of 39

10.3. Test Data

Temperature: 26.3 °C Humidity: 48 % Atmospheric Pressure: 101 kPa









Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 30 of 39

Average:

| Test Mode | Peak Value (dBuV/m) | DCCF | Average Value (dBuV/m) | Limit (dBuV/m) | Polarization | Verdict |
|---------------|------------------------|-------|------------------------------|-------------------|--------------|-----------|
| TMA / CLL. I | 40.931 | -2.32 | 38.608 | 54.00 | Vertical | Pass |
| TM1 / CH: L | 41.888 | -2.32 | 39.565 | 54.00 | Horizontal | Pass |
| TM4 / CLI, LL | 44.075 | -2.32 | 41.752 | 54.00 | Vertical | otel Pass |
| TM1 / CH: H | 43.577 | -2.32 | 41.254 | 54.00 | Horizontal | Pass |

Remark:

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 1. DCCF=20log(Duty Cycle)
- 2. Average Value=Peak Value+DCCF





Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 31 of 39

11. Emissions in frequency bands (below 1GHz)

| Test Method: Procedure: | ANSI C63.10-2020 section ANSI C63.10-2020 section | V 70° VIDO | Anboker Anbo |
|--|---|---|----------------------------------|
| nbotek Anbotek Anbotek Anbotek 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 4 hese frequency bands is permitt | e located in the 470-806 MHz. |
| Anboren Anbo | Above 960 | 500 potek Anborr | 3 rek |
| Test Limit: | 88-216 216-960 | 150 ** 200 ** | 3 Andrew Andrew |
| Anbe L. Spotek | 30-88 | 100 ** | 3 ek Anbore |
| ruek vupotek | 1.705-30.0 | 30° dek 000° | 30 |
| botek Anbore | 0.490-1.705 | 24000/F(kHz) | 30 |
| ote. Yun | 0.009-0.490 | 2400/F(kHz) | 300 |
| k Aupotek Aupo. | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| Test Requirement: | restricted bands, as defined | In addition, radiated emissions d in § 15.205(a), must also compecified in § 15.209(a)(see § 15.20 | ly with the |

11.1. EUT Operation

| Operating Env | ronment: | Pu. | Anborer | And | upojek | Anbo. |
|---------------|--|--|---|---------------|--------------|--------------|
| Test mode: | 1: TX-GFSK (Nor hopping) with GF 2: TX-π/4-DQPS (non-hopping) wi 3: TX-8DPSK (No hopping) with 8D | SK modulation. K (Non-Hopping) th π/4 DQPSK m on-Hopping): Ke |): Keep the E nodulation. ep the EUT ir | UT in continu | ously transr | mitting mode |

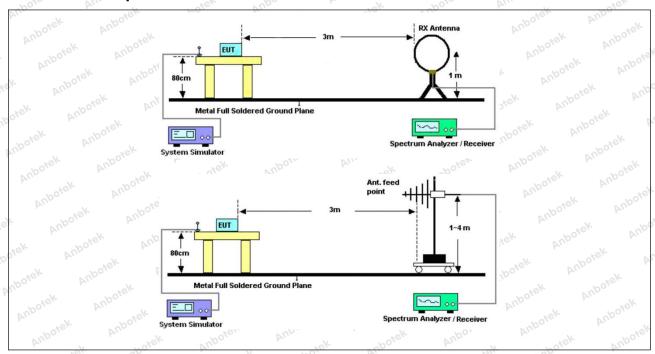






Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 32 of 39

11.2. Test Setup



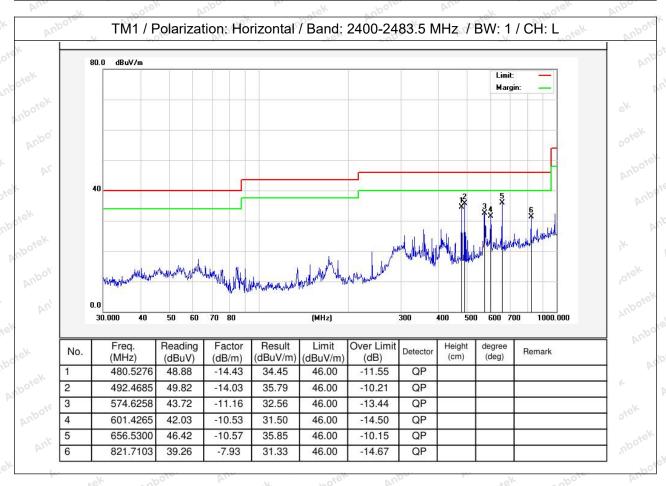




Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 33 of 39

11.3. Test Data

Temperature: 26.3 °C Humidity: 48 % Atmospheric Pressure: 101 kPa

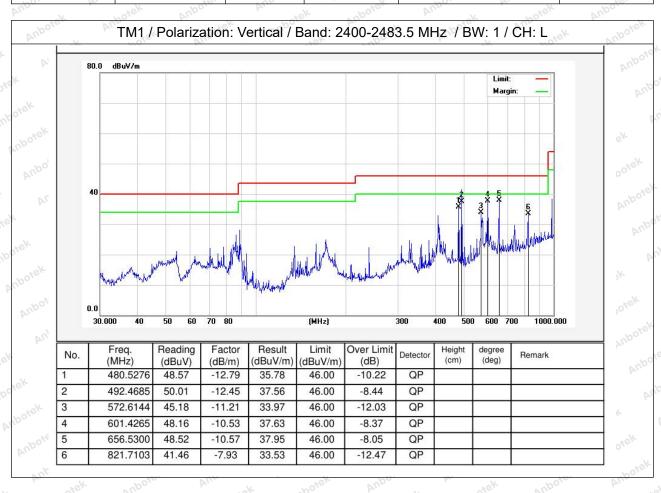






Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 34 of 39

Temperature: 26.3 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.





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Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 35 of 39

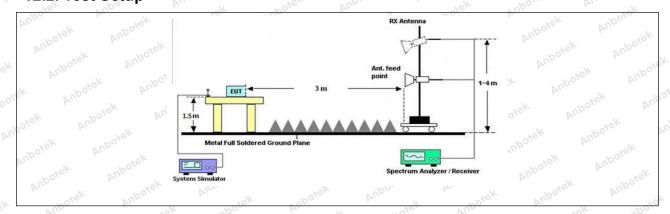
12. Emissions in frequency bands (above 1GHz)

| Test Requirement: | | ons which fall in the restricted background $5(c)$. | |
|--|---|---|----------------------------------|
| otek Vupotek Vupo. | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| o h hotek | 0.009-0.490 | 2400/F(kHz) | 300 Magaza |
| upoter And | 0.490-1.705 | 24000/F(kHz) | 30 |
| otek Anboten | 1.705-30.0 | 30° h | 30 |
| Anbo | 30-88 | 100 ** | 3,ek nbore |
| To attliment. | 88-216 | 150 ** | 3 |
| Test Limit: | 216-960 | 200 ** | 3 botes And |
| Yupo, W. | Above 960 | 500 Morel Ambou | 3 dek and |
| nbotek Anbotek Anbotek 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 4 hese frequency bands is permitt | e located in the 470-806 MHz. |
| Test Method: | ANSI C63.10-2020 section | 6.6.4 | |
| Procedure: | ANSI C63.10-2020 section | 6.6.4 Anbore | Aupolek Aup |

12.1. EUT Operation

| Operating Envi | ronment: | hotek Ar | poter And | | anbotek | Anbo. |
|----------------|---|---|-------------------------|------------|-------------|--------------|
| Test mode: | hopping) with GFS 2: TX-π/4-DQPSk (non-hopping) wit | ((Non-Hopping): Κ h π/4 DQPSK mod n-Hopping): Keep t | eep the EUT in ulation. | n continuo | usly transm | nitting mode |

12.2. Test Setup









FCC ID: 2AV7N-MEDO Report No.: 18220WC30222002 Page 36 of 39

12.3. Test Data

| Temperature: 26.3 °C | Humidity: 48 % | Atmospheric Pressure: | 101 kPa |
|----------------------|----------------|-----------------------|---------|
|----------------------|----------------|-----------------------|---------|

| K | HOTE AME | | The labor | | r hole | VL. |
|--------------------|-------------------|---|--------------------|------------------------|--------------------|--------------|
| | | | TM1 / CH: L | | | |
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4804.00 | 27.99 | 15.27 | 43.26 | 74.00 | -30.74 | Vertical |
| 7206.00 | 29.01 | 18.09 | 47.10 | 74.00 | -26.90 | Vertical |
| 9608.00 | 30.12 | 23.76 | 53.88 | 74.00 | -20.12 | Vertical |
| 12010.00 | Aupole * Al | 49: | abotek Anb | 74.00 | otek Anbote | Vertical |
| 14412.00 | "Upo#sk | Aupo | hotek p | 74.00 | iek ont | Vertical |
| 4804.00 | 28.30 | 15.27 | 43.57 | 74.00 | -30.43 | Horizontal |
| 7206.00 | 29.49 | 18.09 | 47.58 | 74.00 | -26.42 | Horizontal |
| 9608.00 | 28.59 | 23.76 | 52.35 | 74.00 | -21.65 | Horizontal |
| 12010.00 | otek * Aupo | <i>b</i> . | ick Vupose, | 74.00 | hotek | Horizontal |
| 14412.00 | woick* | poter Amb | sek spc | 74.00 | L bore | Horizontal |
| Average value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4804.00 | 17.37 | 15.27 | 32.64 | 54.00 | -21.36 | Vertical |
| 7206.00 | 18.04 | 18.09 | 36.13 | 54.00 | -17.87 | Vertical |
| 9608.00 | 19.14 | 23.76 | 42.90 | 54.00 | -11.10 otel | Vertical |
| 12010.00 | 1010× | Aupoter Au | , ek | 54.00 | V In C | Vertical |
| 14412.00 | And *ek | abotek | Anbo. A | 54.00 | ipole And | Vertical |
| 4804.00 | 16.65 | 15.27 | 31.92 | 54.00 | -22.08 | Horizontal |
| 7206.00 | 18.55 | 18.09 | 36.64 | 54.00 | -17.36 | Horizontal |
| 9608.00 | 17.90 000° | 23.76 | 41.66 | 54.00 | -12.34 | Horizontal |
| 12010.00 | *** * | otek Aupor | N 20% | 54.00 | Aug. *ek | Horizontal |
| 14412.00 | 4 × | otek ant | Oter And | 54.00 | ek Aupor | Horizontal |





Page 37 of 39 Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO

| | | | | hotek | Anbor | rek |
|--------------------|-------------------|------------------|--------------------|------------------------|--------------------|--------------|
| | | | ГМ1 / СН: М | | | |
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4882.00 | 28.01 | 15.42 | 43.43 | 74.00 | -30.57 | Vertical |
| 7323.00 | 28.86 | 18.02 | 46.88 | 74.00 | -27.12 | Vertical |
| 9764.00 | 29.13 | 23.80 | 52.93 | 74.00 | -21.07 | Vertical |
| 12205.00 | ek * nbotek | Anbor | hotek | 74.00 | Ando | Vertical |
| 14646.00 | * ** | ick Aupole | Pun Vie | 74.00 | Vupo | Vertical |
| 4882.00 | 28.00 | 15.42 | 43.42 | 74.00 | -30.58 | Horizontal |
| 7323.00 | 29.48 | 18.02 | 47.50 | 74.00 | -26.50 | Horizontal |
| 9764.00 | 28.29 | 23.80 | 52.09 | 74.00 | -21.91 | Horizontal |
| 12205.00 | * otek | Anboie | And | 74.00 | YUpo, ok | Horizontal |
| 14646.00 | Pur Siek | nbotek | Aupo. | 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 | 17.10 | 15.42 | 32.52 | 54.00 | -21.48 | Vertical |
| 7323.00 | 18.14 | 18.02 | 36.16 | 54.00 | -17.84 | Vertical |
| 9764.00 | 19.00 | 23.80 | 42.80 | 54.00 | -11.20 | Vertical |
| 12205.00 | k *upote | N Diek | anboter | 54.00 | aboiek | Vertical |
| 14646.00 | otek * Anboti | And | sk spojek | 54.00 | k otek | Vertical |
| 4882.00 | 16.56 | 15.42 | 31.98 | 54.00 | -22.02 | Horizontal |
| 7323.00 | 18.11 | 18.02 | 36.13 | 54.00 | -17.87 | Horizontal |
| 9764.00 | 18.41 | 23.80 | 42.21 | 54.00 | 11.79 And | Horizontal |
| 12205.00 | Anbotek | Aup. *ek | botek | 54.00 | wotek D | Horizontal |
| 14646.00 | * botek | Anbo | D. C. C. | 54.00 | And | Horizontal |



Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 38 of 39

| V. V. | Heli | "upo, | Dr. | hote | AUD | rek |
|--------------------|-------------------|-----------------------|--------------------|------------------------|--------------------|--------------|
| | | • | TM1 / CH: H | | | |
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4960.00 | 28.28 | 15.58 | 43.86 | 74.00 | -30.14 | Vertical |
| 7440.00 | 28.87 | 17.93 | 46.80 | 74.00 | -27.20 | Vertical |
| 9920.00 | 29.68 | 23.83 | 53.51 | 74.00 | -20.49 | Vertical |
| 12400.00 | * otek | anbotes | Anb. "ek | 74.00 | Aupor | Vertical |
| 14880.00 | * And | iek "potel | , Vupo, | 74.00 | Aupote | Vertical |
| 4960.00 | 28.07 | 15.58 | 43.65 | 74.00 | -30.35 | Horizontal |
| 7440.00 | 29.51 | 17.93 | 47.44 | 74.00 | -26.56 | Horizontal |
| 9920.00 | 28.97 | 23.83 | 52.80 | 74.00 | -21.20 | Horizontal |
| 12400.00 | Vup.* | abotek | Aupor b | 74.00 | rupoter Vul | Horizontal |
| 14880.00 | AC#DOLL | hotek | Aupoien | 74.00 | anbotek | Horizontal |
| Average value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4960.00 | 18.22 | 15.58 | 33.80 | 54.00 | -20.20 | Vertical |
| 7440.00 | 19.15 | 17.93 | 37.08 | 54.00 | 16.92 And | Vertical |
| 9920.00 | 19.55 | 23.83 | 43.38 | 54.00 | -10.62 | Vertical |
| 12400.00 | k * "potek | Aupo, | hotek | 54.00 | Aug | Vertical |
| 14880.00 | * * * | k Aupore | Aug | 54.00 | Vupo. | Vertical |
| 4960.00 | 18.00 | 15.58 No ⁰ | 33.58 | 54.00 | -20.42 | Horizontal |
| 7440.00 | 19.48 And | 17.93 | 37.41 M | 54.00 | -16.59 | Horizonta |
| 9920.00 | 18.31 | 23.83 | 42.14 | 54.00 | -11.86 | Horizonta |
| 12400.00 | * tek | Anbores | Aur | 54.00 | po, bu | Horizonta |
| 14880 00 | An* | bolek | Anbe. | 54 00 | Vupotes V | Horizontal |

Remark:

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







Report No.: 18220WC30222002 FCC ID: 2AV7N-MEDO Page 39 of 39

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 -----

