

 Report No.: 18220WC20119501
 FCC ID: 2ATWU-A1617A
 Page 1 of 21

FCC Test Report

| Client Name | P.n | Mei Shun He Electronic Limited |
|----------------|-------|--|
| | | 301, 8th Building, No.69 Xikeng Road, Xikeng |
| Client Address | otelt | Community, Fucheng Street, Longhua |
| | | District, 518110, Shenzhen City, China |
| Product Name | part | Power Bank with Docking Station |

Report Date

Aug. 22, 2022



Shenzhen Anbotek Compliance Laboratory Limited

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

Code:AB-RF-05-b





 Report No.: 18220WC20119501
 FCC ID: 2ATWU-A1617A
 Page 2 of 21

Contents

| 1. General Information | otek Anbor | | aboten Anbo | 4 |
|--|--------------|---|--|-----|
| 1.1. Client Information | tek obote | Anu | notek pr | |
| 1.2. Description of Device (EUT). | Ano | stek Anbor | | |
| 1.3. Auxiliary Equipment Used Du | uring Test | undek poboter | Anu | 5 |
| 1.4. Description of Test Modes | A hopeday | o ² | ak Aupo | 5 |
| 1.5. Description Of Test Setup | | Acho. A. | utek popote. | 6 |
| 1.6. Test Equipment List | | pobote. An | | 7 |
| 1.7. Measurement Uncertainty | pote. Anu | ubotek. | Anbo. A. | |
| 1.2. Description of Device (EUT). 1.3. Auxiliary Equipment Used Du 1.4. Description of Test Modes 1.5. Description Of Test Setup 1.6. Test Equipment List 1.7. Measurement Uncertainty 1.8. Description of Test Facility 2. Summary of Test Results | Anbu Anbu | and the second se | polore An | 8 |
| 2. Summary of Test Results 3. Conducted Emission Test 3.1. Test Standard and Limit 2.2. Test Seture | m palek palo | No. No. | Arthotek | |
| 3. Conducted Emission Test | Alle Mak | hoten Anbo | and the second second | |
| 3.1. Test Standard and Limit | Ando | potek pubor | Man Mark | |
| 3.2. Test Setup 3.3. Test Procedure | k pupore | Pro- | oten And | 10 |
| 3.3. Test Procedure | welt unboten | Ano | and the second | |
| 3.4 Test Data | | | | P11 |
| 4. Radiation Spurious Emission | upor pri | et unboten | AUD | |
| 4.1. Test Standard and Limit | kaboten Ant | | Anbo. | 14 |
| 4.2. Test Setup | 014 | 00° | 4 kaboter | |
| 4.3. Test Procedure | | huppores. Pure | with an and a start of the star | 15 |
| 4.4. Test Data | Ans | Anbitek Anbi | | |
| 4.1. Test Standard and Limit 4.2. Test Setup 4.3. Test Procedure 4.4. Test Data 5. Antenna Requirement 5.1. Test Standard and Requirem | stek Anbo | | abote Anu | 20 |
| 5.1. Test Standard and Requirem | nent | An- | Anbi | 20 |
| 5.2. Antenna Connected Construct APPENDIX I TEST SETUP PHOTO | ction | Anbo | | 20 |
| APPENDIX I TEST SETUP PHOTO | OGRAPH | patek pabote | Pun | |
| APPENDIX II EXTERNAL PHOTOG | GRAPH | hotel | Anbo | |
| APPENDIX III INTERNAL PHOTOG | GRAPH | Anda- | rek pupore | 21 |
| | | | | |

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Report No.: 18220WC20119501 FCC ID: 2ATWU-A1617A Pag

Page 3 of 21

TEST REPORT

| Applicant : | Mei Shun He Electronic Limited |
|----------------|--|
| Manufacturer : | Mei Shun He Electronic Limited |
| Product Name : | Power Bank with Docking Station |
| Model No. : | TR015001, LIM-10PBDS-001, LIM-10PBDS-002,TR307, PB059, TR338 |
| Trade Mark : | N.A. botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek |
| Rating(s) : | Please refer to page 8 |

Test Standard(s):FCC Part15 Subpart C, Paragraph 15.209Test Method(s):ANSI C63.10: 2020

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 the FCC Part 15 Subpart C 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 Jun. 06, 2022 Jun. 06~15 2022

Tu Tu Hong

Prepared By

(TuTu Hong)

(Kingkong Jin)

Approved & Authorized Signer

An

Shenzhen Anbotek Compliance Laboratory Limited

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Code:AB-RF-05-b





Report No.: 18220WC20119501 FCC ID

FCC ID: 2ATWU-A1617A

Page 4 of 21

1. General Information

1.1. Client Information

| × | Applicant | : | Mei Shun He Electronic Limited |
|----|--------------|---|--|
| ੰ | Address | : | 301, 8th Building, No.69 Xikeng Road, Xikeng Community, Fucheng Street, Longhua District, 518110, Shenzhen City, China |
| 5 | Manufacturer | • | Mei Shun He Electronic Limited |
| | Address | : | 301, 8th Building, No.69 Xikeng Road, Xikeng Community, Fucheng Street, Longhua District, 518110, Shenzhen City, China |
| 6 | Factory | : | Mei Shun He Electronic Limited |
| 54 | Address | : | 301, 8th Building, No.69 Xikeng Road, Xikeng Community, Fucheng Street, Longhua District, 518110, Shenzhen City, China |

1.2. Description of Device (EUT)

| w0 | Mote An | stek hope h. wore | | | | |
|------------------------|---|--|--|--|--|--|
| Product Name | : Power Bank with Docking S | | | | | |
| Model No. | (Note:These are the models Power Bank and Docking S Power Bank with Docking S | Station for model no.TR015001, LIM-10PBDS-001 nodels are identical with each other except for TR307; PB059; no.TR338 | | | | |
| Trade Mark | : N.A probates And | ek Anbotek Anbo, Anbotek An | | | | |
| Test Power Supply | AC 120V, 60Hz for adapter | AC 120V, 60Hz for adapter | | | | |
| Test Sample No. | : 1-2-1(Normal Sample), 1-2- | -2(Engineering Sample) | | | | |
| | Operation Frequency: | 110.1-205KHz | | | | |
| | Modulation Type: | FSK Anbolek Anbolek Anbole | | | | |
| Product Description | . Antenna Type: | Inductive loop coil Antenna | | | | |
| | Antenna Gain(Peak): | 0 dBi (Provided by customer) | | | | |
| | Adapter: | Input: AC 120V/60Hz Output: 5V2A | | | | |

or the User's Manual.

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Report No.: 18220WC20119501 FCC ID: 2ATWU-A1617A Page 5 of 21

1.3. Auxiliary Equipment Used During Test

| Mobile phone | : | I Phone 11 | Anbor | Pu. | otek Anbo | ter Anbo | tek abotek |
|--------------|-----|------------|-------|-----|-----------|----------|------------|
| | NO. | per. | 250 | 100 | | 1 alt | No. b. |

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|--------------|-------------------------------|
| Mode 1 | WPT Mode |
| Mode 2 | WPT Mode with Docking Station |

| M NOV | D.V. | 10.0 T | N. N. | (h=0) |
|-----------------|-------------|--------------------|--------------|--------|
| | For Cond | lucted Emission | | |
| Final Test Mode | | Description | n | |
| Mode 1 | botek Anbot | WPT Mode | enbotek Anbr | ore pr |
| Mode 2 | abotek An | WPT Mode with Dock | king Station | nbor |
| botek Anbor | An | unboten And | botek | Pupo. |

| | For Radiated Emission |
|-----------------|-------------------------------|
| Final Test Mode | Description |
| Mode 1 | WPT Mode |
| Mode 2 | WPT Mode with Docking Station |

Note: (1)Test channel is 0.1275MHz.

(2) All the situation(full load, half load and empty load) has been tested,only the worst situation (full load 10W) was recorded in the report.

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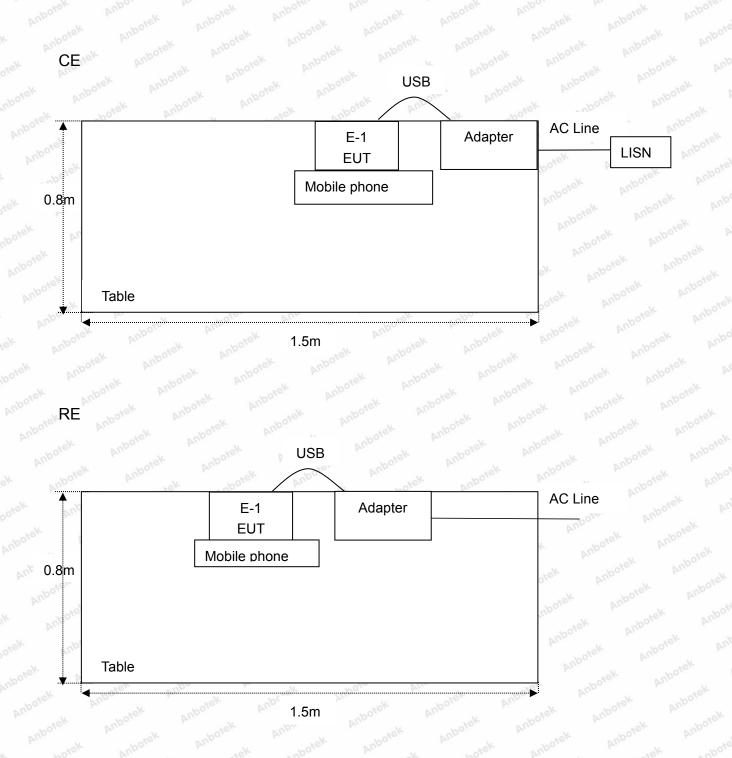






Report No.: 18220WC20119501 FCC ID: 2ATWU-A1617A Page 6 of 21

1.5. Description Of Test Setup



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Code:AB-RF-05-b



Report No.: 18220WC20119501 FCC ID: 2ATWU-A1617A Page 7 of 21

1.6. Test Equipment List

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. |
|--------------|---|-------------------------|------------------|---------------|---------------|--------|
| 1. 1. | Three Phase V-type Artificial Power Network | CYBERTEK | EM5040DT | E215040DT001 | Jul 05, 2021 | 1 Year |
| 2. | EMI Test Receiver | Rohde & Schwarz | ESCI | 100627 | Oct. 22, 2021 | 1 Year |
| × 3. | EMI Test Receiver | Rohde & Schwarz | ESR26 | 101481 | Oct. 22, 2021 | 1 Year |
| Anbote 4. | RF Switching Unit | Compliance Direction | RSU-M2 | 38303 | Oct. 22, 2021 | 1 Year |
| 5. | MAX Spectrum Analysis | Agilent | N9020A | MY51170037 | Oct. 22, 2021 | 1 Year |
| 6. | Preamplifier | SKET Electronic | BK1G18G30 D | KD17503 | Oct. 22, 2021 | 1 Year |
| Ant7.tek | Double Ridged Horn Antenna | Instruments corporation | GTH-0118 | 351600 | Oct. 22, 2021 | 2 Year |
| 8. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | VULB 9163-289 | Oct. 22, 2021 | 2 Year |
| 9. | Loop Antenna | Schwarzbeck | FMZB1519B | 00053 | Oct. 22, 2021 | 2 Year |
| 10. | Horn Antenna | A-INFO | LB-180400-K F | J211060628 | Oct. 22, 2021 | 2 Year |
| 11. | Pre-amplifier | SONOMA | 310N | 186860 | Oct. 22, 2021 | 1 Year |
| 12. | EMI Test Software EZ-EMC | SHURPLE | N/A hoose | N/A | N/A | N/A |
| 13. | RF Test Control System | YIHENG | YH3000 | 2017430 | Oct. 22, 2021 | 1 Year |
| 14. | Power Sensor | DAER | RPR3006W | 15100041SN045 | Oct. 22, 2021 | 1 Year |
| 15. | Power Sensor | DAER | RPR3006W | 15100041SN046 | Oct. 22, 2021 | 1 Year |
| 16. | MXA Spectrum Analysis | KEYSIGHT | N9020A | MY53280032 | Oct. 22, 2021 | 1 Year |
| 17. | MXG RF Vector Signal Generator | Agilent | N5182A | MY48180656 | Oct. 22, 2021 | 1 Year |
| 18. | Signal Generator | Agilent | E4421B | MY41000743 | Oct. 22, 2021 | 1 Year |
| 19. | DC Power Supply | IVYTECH | IV3605 | 1804D360510 | Oct. 22, 2021 | 1 Year |
| 20. | Constant Temperature Humidity Chamber | ZHONGJIAN | ZJ-KHWS80 B | ek N/A otek | Oct. 22, 2021 | 1 Year |

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Report No.: 18220WC20119501

FCC ID: 2ATWU-A1617A

Page 8 of 21

1.7. Measurement Uncertainty

| Radiation Uncertainty | : | Ur = 3.9 dB (Horizontal) | Anborn | Annabotek | Anbotek |
|------------------------|---|--------------------------|------------|------------|---------|
| | | Ur = 3.8 dB (Vertical) | Anbo. stek | A. nbotek | Anbote. |
| Conduction Uncertainty | : | Uc = 3.4 dB | Anbu | ek Anbotek | Anbore |

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.

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| - U.U. | |
|-------------|---|
| Rating(s) : | : For model no.TR015001, LIM-10PBDS-001, LIM-10PBDS-002 |
| Anbore | Input: 12V 3.67A (with DC 3.7V, 1000mAh Battery inside) |
| y wotek | wireless output power: 5W/7.5W/10W MAX |
| ANDC ANDC | For model no.TR307 |
| tek abot | Input:110-240VAC,50/60Hz,1.6A |
| Por Pri | Output:12VDC/3.67A 44W |
| hotek Ant | For model no.PB059 |
| 2m2 | Input (Type-C1):5VDC/3A,9VDC/2A,12VDC/1.5A |
| Anbore | Output:Type-C1:5VDC/3A,9VDC/2A,12VDC/1.5A (18W Max.) |
| wotek. | USB-A1:5VDC/2.4A 12W |
| Ano | USB-A2:5VDC/3A,9VDC/2A,12VDC/1.5A (18W Max.) |
| K anboten | Wireless:5W/7.5W/10W |
| Pri ate | Total Output Power:18W Max. |
| otek Anbo | Battery Rating: 10000mAh, 3.7Vdc, 37Wh |
| Not No | For model no.TR338 |
| inboit An | Input (Type-C3):12VDC/3.67A |
| hotek | Output:Type-C1:5VDC/3A,9VDC/2.22A,12VDC/1.67A (20W Max.) |
| And | Type-C2:5VDC/3A,9VDC/2.22A,12VDC/1.67A (20W Max.) |
| Anbore | USB-A1:5VDC/3A,9VDC/2A,12VDC/1.5A (18W Max.) |
| - otek | USB-A2:5VDC/3A,9VDC/2A,12VDC/1.5A (18W Max.) |
| Anbo | USB-A1+Type-C1:5VDC/3A 15W Max. |
| ek bote | USB-A2+Type-C2:5VDC/3A 15W Max. |
| | well abote Anto a steel Anton Att Apple of the or the orter |

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Report No.: 18220WC20119501 FCC ID: 2ATWU-A1617A Page 9 of 21

2. Summary of Test Results

| Standard Section | Test Item | Result | | |
|--|-------------------------|--------|--|--|
| FCC Part 15, Paragraph 15.207 | Conducted Emission Test | PASS | | |
| FCC Part 15, Paragraph 15.209(a)(f) | Spurious Emission | PASS | | |
| Part 15.203 | Antenna Requirement | PASS | | |

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Code:AB-RF-05-b



Report No.: 18220WC20119501 FCC ID: 2ATWU-A1617A Page 10 of 21

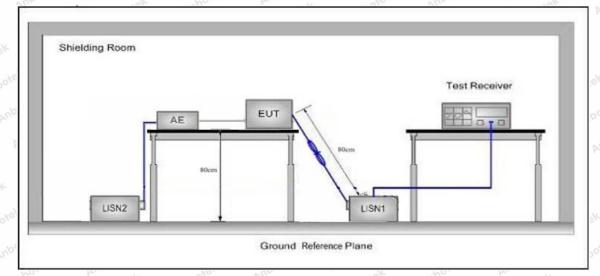
3. Conducted Emission Test

3.1. Test Standard and Limit

| Test Standard | FCC Part15 Section 15.20 |)7 tek unbotek Anbo | |
|---------------|--------------------------|---------------------|------------------|
| 4 | Frequency | Maximum RF Lin | e Voltage (dBuV) |
| 3 | Frequency | Quasi-peak Level | Average Level |
| Test Limit | 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * |
| | 500kHz~5MHz | 56 | 46 |
| | 5MHz~30MHz | 60 | Anboi 50, botek |

Remark: (1) *Decreasing linearly with logarithm of the frequency.(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz. The frequency range from 150kHz to 30MHz is checked.

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Code:AB-RF-05-b





 Report No.: 18220WC20119501
 FCC ID: 2ATWU-A1617A
 Page 11 of 21

 3.4. Test Data Page 11 of 21
 Page 11 of 21

Only the worst case data was showed in the report, please to see the following pages.

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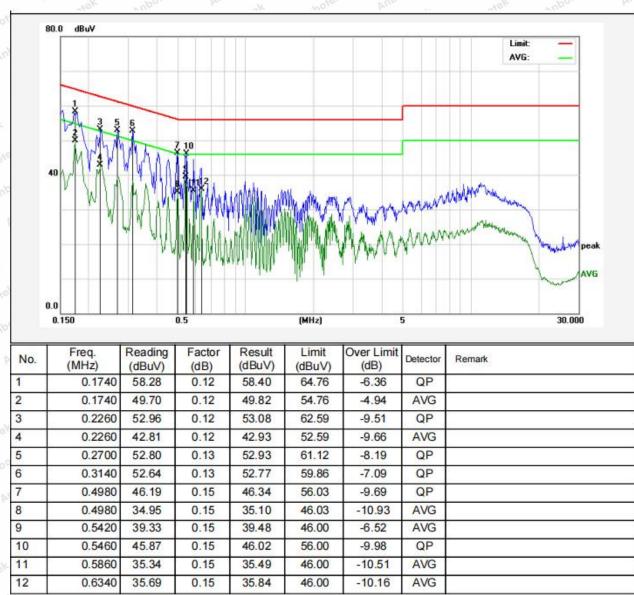
Code:AB-RF-05-b



Report No.: 18220WC20119501 FCC ID: 2ATWU-A1617A Page 12 of 21

Conducted Emission Test Data

| Test Site: | 1# Shielded Room |
|----------------------|---------------------------|
| Operating Condition: | Mode 1 |
| Test Specification: | AC 120V, 60Hz for adapter |
| Comment: | Live Line |
| | Tem.: 22.8℃ Hum.: 47% |



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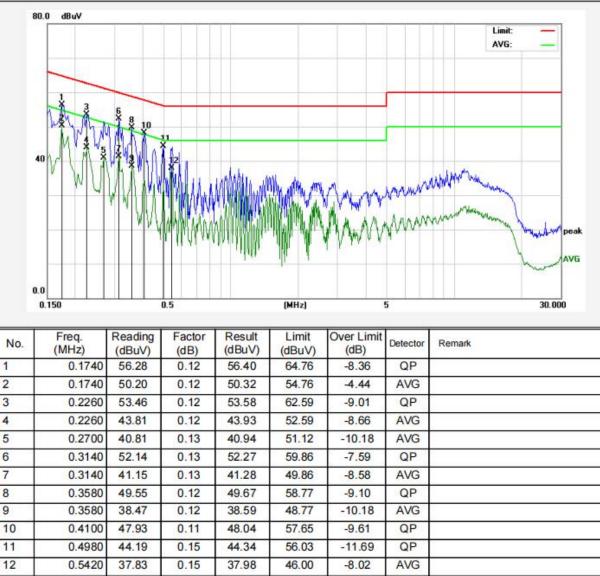
Report No.: 18220WC20119501 FCC ID: 2ATWU-A1617A

Page 13 of 21

Conducted Emission Test Data

Anbotek Product Safety

| Test Site: | 1# Shielded Room |
|----------------------|---------------------------|
| Operating Condition: | Mode 1 |
| Test Specification: | AC 120V, 60Hz for adapter |
| Comment: | Neutral Line |
| Anbote Ant Ant | Tem.: 22.8°C Hum.: 47% |



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Report No.: 18220WC20119501 FCC ID: 2ATWU-A1617A Page 14 of 21

4. Radiation Spurious Emission

4.1. Test Standard and Limit

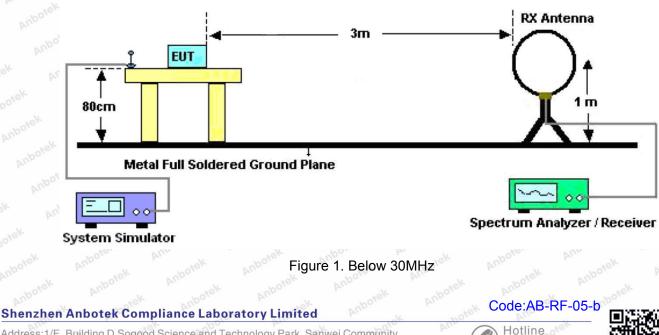
| Test Standard | FCC Part15 C Section 1 | 5.209 and 15.205 | potek Anbor | All bo | tek Anboten |
|---------------|------------------------|-------------------------------------|-------------------|------------|--------------------------|
| | Frequency (MHz) | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) |
| | 0.009MHz~0.490MHz | 2400/F(kHz) | Anu "otek | Anbotek | 300 |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | k hotek | Anteotek | 30 |
| Test Limit | 1.705MHz-30MHz | 30 M | per pore | k Anbotek | 30 |
| | 30MHz~88MHz | 100 | 40.0 | Quasi-peak | 3 |
| | 88MHz~216MHz | 150 | 43.5 | Quasi-peak | 3 Annu |
| | 216MHz~960MHz | 200 | 46.0 | Quasi-peak | Anton 3 |
| | 960MHz~1000MHz | 500 | 54.0 | Quasi-peak | Ambol 3 .ek |
| | Above 1000MUT | 500 | 54.0 | Average | Ang stek |
| | Above 1000MHz | Anbotek Anb | 74.0 | Peak | 3 |

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup



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Report No.: 18220WC20119501 FCC ID: 2ATWU-A1617A Page



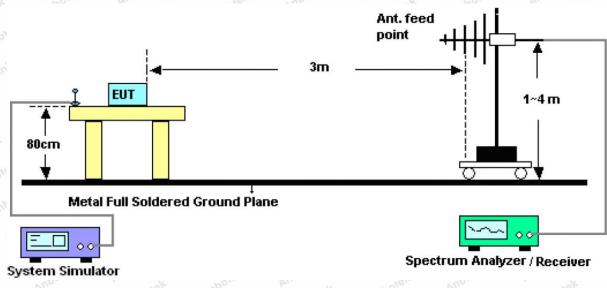


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as: RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as: RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as: RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

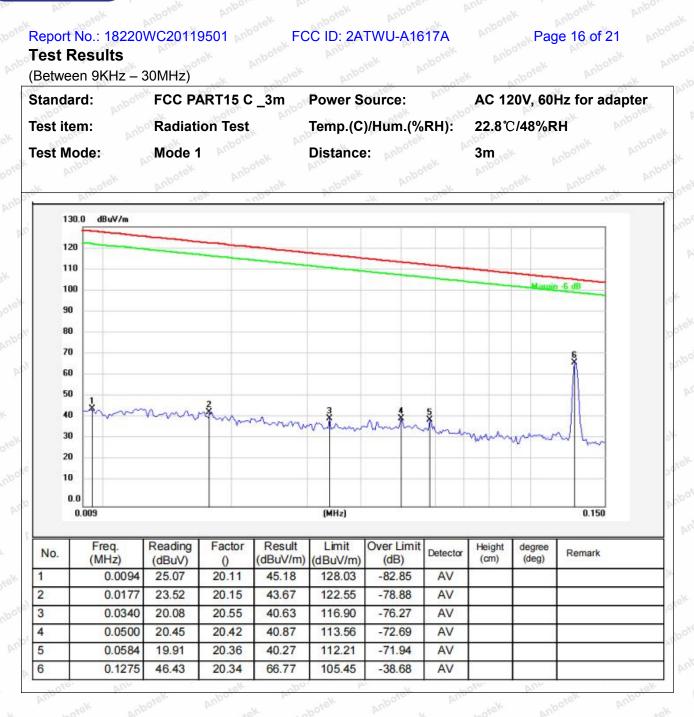
Only the worst case data was showed in the report, please to see the following pages. Note: The data is in TX mode, and this is the worst mode.

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Report No.: 18220WC20119501 FCC ID: 2ATWU-A1617A Page 17 of 21 110.0 dBuV/m 100 90 80 70 Margin -6 dB 60 50 40 30 20 10 0.0 0.150 0.5 (MHz) 30.000 5 Freq. Reading Factor Result Limit Over Limit Height degree Detector No. Remark dBuV/m) (MHz) (cm) (deg) (dBuV) 0 (dBuV/m) (dB) 52.33 1 0.7549 32.08 20.25 70.06 -17.73 QP 2 1.3702 20.04 20.26 40.30 64.89 -24.59 QP 3 17.43 -31.80 QP 1.7391 20.27 37.70 69.50 20.29 4 2.2968 18.64 38.93 69.50 -30.57 QP 5 9.3518 13.78 20.50 34.28 69.50 -35.22 QP

Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

-34.07

QP

69.50

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10.6763

6

14.91

20.52

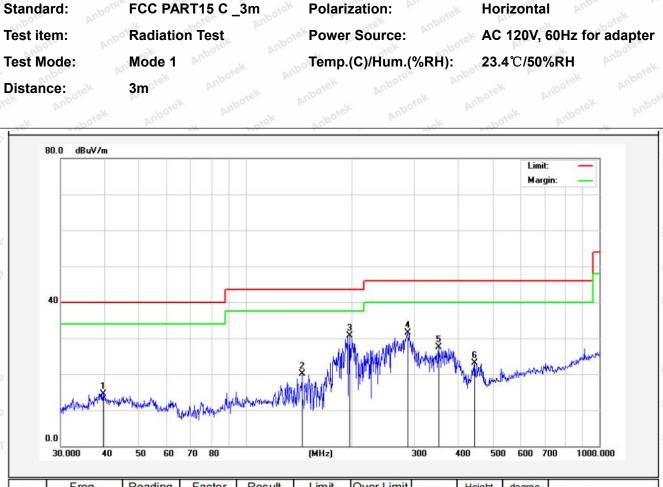
35.43

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Code:AB-RF-05-b



Anbotek Product Safety Report No.: 18220WC20119501 FCC ID: 2ATWU-A1617A (Between 30MHz –1000 MHz) Standard: FCC PART15 C _3m Polarization:



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark | |
|-----|----------------|-------------------|------------------|--------------------|-------------------|--------------------|----------|----------------|-----------------|--------|---|
| 1 | 39.5756 | 30.83 | -16.24 | 14.59 | 40.00 | -25.41 | QP | 12 | | | |
| 2 | 144.3348 | 42.99 | -22.97 | 20.02 | 43.50 | -23.48 | QP | | | | 1 |
| 3 | 196.5098 | 53.14 | -22.48 | 30.66 | 43.50 | -12.84 | QP | | | | |
| 4 | 286.9823 | 49.82 | -18.29 | 31.53 | 46.00 | -14.47 | QP | s. (8 | 8 | | |
| 5 | 351.7078 | 43.53 | -16.00 | 27.53 | 46.00 | -18.47 | QP | 3 | | | |
| 6 | 444.8514 | 38.74 | -15.54 | 23.20 | 46.00 | -22.80 | QP | | | | |

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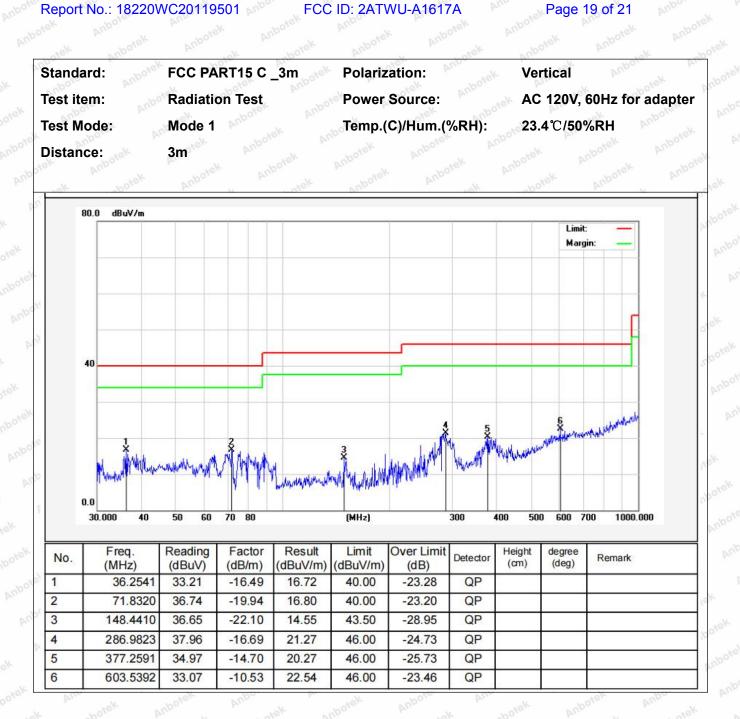
Page 18 of 21





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Anbotek Product Safety



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Report No.: 18220WC20119501

FCC ID: 2ATWU-A1617A

Page 20 of 21

5. Antenna Requirement

5.1. Test Standard and Requirement

| Test Standard | FCC Part15 Section 15.203 |
|---------------|---|
| Requirement | An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. |

5.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.

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Code:AB-RF-05-b





Report No.: 18220WC20119501 FCC ID: 2ATWU-A1617A Page 21 of 21

APPENDIX I -- TEST SETUP PHOTOGRAPH

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

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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