



TEST REPORT

APPLICANT : Realme Chongqing Mobile
Telecommunications Corp., Ltd.

PRODUCT NAME : Mobile Phone

MODEL NAME : RMX3203

BRAND NAME : realme

STANDARD(S) : 47 CFR Part 15 Subpart B

FCC ID : 2AUYFRMX3203

RECEIPT DATE : 2020-12-30

TEST DATE : 2021-01-05 to 2021-01-07

ISSUE DATE : 2021-02-22

Edited by:

He sinuo

He Sinuo(Rapporteur)

Approved by:

Xiao Xiong

Xiao Xiong(Supervisor)

NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.





DIRECTORY

- 1. Technical Information..... 3
 - 1.1. Applicant and Manufacturer Information..... 3
 - 1.2. Equipment Under Test (EUT) Description 3
- 2. Test Results 7
 - 2.1. Applied Reference Documents 7
 - 2.2. EUT Setup and Operating Conditions..... 8
- 3. 47 CFR Part 15B Requirements 10
 - 3.1. Conducted Emission 10
 - 3.2. Radiated Emission 14
- Annex A Test Uncertainty 21
- Annex B Testing Laboratory Information 22

| Change History | | |
|----------------|------------|-------------------|
| Version | Date | Reason for Change |
| 1.0 | 2021-02-22 | First edition |
| | | |



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

| | |
|------------------------------|--|
| Applicant: | Realme Chongqing Mobile Telecommunications Corp., Ltd. |
| Applicant Address: | No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China |
| Manufacturer: | Realme Chongqing Mobile Telecommunications Corp., Ltd. |
| Manufacturer Address: | No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China |

1.2. Equipment Under Test (EUT) Description

| | |
|--------------------------|---|
| Product Name: | Mobile Phone |
| Serial No.: | (N/A, marked #1 by test site) |
| Hardware Version: | 11 |
| Software Version: | realme UI V1.0 |
| Tx Frequency: | GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band V: 824 MHz ~ 849 MHz WCDMA BandIV: 1710 MHz ~ 1755 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2535 MHz ~ 2655 MHz LTE Band 66: 1710 MHz ~ 1780 MHz Bluetooth 5.0: 2402 MHz ~ 2480 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz |
| Rx Frequency: | GSM850: 869 MHz ~ 894 MHz GSM1900: 1930 MHz ~ 1990 MHz WCDMA Band II: 1930 MHz ~ 1990 MHz WCDMA Band V: 869 MHz ~ 894 MHz |



| | | |
|-----------------------------|---|--|
| | <p>WCDMA Band IV: 2110 MHz ~ 2155 MHz LTE Band 2: 1930 MHz ~ 1990 MHz LTE Band 4: 2110 MHz ~ 2155 MHz LTE Band 5: 869 MHz ~ 894 MHz LTE Band 7: 2620 MHz ~ 2690 MHz LTE Band 12: 729 MHz ~ 746 MHz LTE Band 17: 734 MHz ~ 746 MHz LTE Band 26: 859 MHz ~894 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2535 MHz ~ 2655 MHz LTE Band 66: 2110 MHz ~ 2200 MHz Bluetooth 5.0: 2402 MHz ~ 2480 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz GPS: 1559 MHz ~ 1610 MHz Galileo/GLONASS/BeiDou/SBAS:1559 MHz ~ 1610 MHz</p> | |
| Ancillary Equipment: | AC Adapter 1 | |
| | Brand Name: | realme |
| | Model No.: | OP52CAEH |
| | Serial No.: | (N/A, marked #1 by test site) |
| | Rated Input: | 100-240V~ 50/60Hz 0.4A |
| | Rated Output: | 5.0V=2.0A |
| | Manufacturer: | Dongguan YOHO Electronic Technology Co., Limited |
| | AC Adapter 2 | |
| | Brand Name: | realme |
| | Model No.: | OP52KAEH |
| | Serial No.: | (N/A, marked #1 by test site) |
| | Rated Input: | 100-240V~ 50/60Hz 0.4A |
| | Rated Output: | 5.0V=2.0A |
| | Manufacturer: | ShenZhen KunXing Technology Co., Ltd |
| | AC Adapter 3 | |
| | Brand Name: | realme |
| | Model No.: | OP52JAEH |
| | Serial No.: | (N/A, marked #1 by test site) |
| | Rated Input: | 100-240V~ 50/60Hz 0.4A |
| | Rated Output: | 5.0V=2.0A |
| Manufacturer: | Ten Pao Electronics (Huizhou) Co., Ltd. | |
| AC Adapter 4 | | |
| Brand Name: | realme | |



| | |
|---------------------|--------------------------------------|
| Model No.: | OP52JAYH |
| Serial No.: | (N/A, marked #1 by test site) |
| Rated Input: | 100-240V~ 50/60Hz 0.4A |
| Rated Output: | 5.0V=2.0A |
| Manufacturer: | Ten Pao Industrial Co., Ltd. |
| AC Adapter 5 | |
| Brand Name: | realme |
| Model No.: | OP52KAYH |
| Serial No.: | (N/A, marked #1 by test site) |
| Rated Input: | 100-240V~ 50/60Hz 0.4A |
| Rated Output: | 5.0V=2.0A |
| Manufacturer: | ShenZhen KunXing Technology Co., Ltd |
| AC Adapter 6 | |
| Brand Name: | realme |
| Model No.: | OP52KAUH |
| Serial No.: | (N/A, marked #1 by test site) |
| Rated Input: | 100-240V~ 50/60Hz 0.4A |
| Rated Output: | 5.0V=2.0A |
| Manufacturer: | ShenZhen KunXing Technology Co., Ltd |
| AC Adapter 7 | |
| Brand Name: | realme |
| Model No.: | OP52JAUH |
| Serial No.: | (N/A, marked #1 by test site) |
| Rated Input: | 100-240V~ 50/60Hz 0.4A |
| Rated Output: | 5.0V=2.0A |
| Manufacturer: | Ten Pao Industrial Co., Ltd. |
| AC Adapter 8 | |
| Brand Name: | realme |
| Model No.: | OP52YAUH |
| Serial No.: | (N/A, marked #1 by test site) |
| Rated Input: | 100-240V~ 50/60Hz 0.4A |
| Rated Output: | 5.0V=2.0A |
| Manufacturer: | Jiangsu Chenyang Electron CO.,Ltd. |
| Battery 1 | |
| Brand Name: | realme |
| Model No.: | BLP729 |



| | | |
|--|------------------|-------------------------------|
| | Serial No.: | (N/A, marked #1 by test site) |
| | Capacity: | 4880mAh |
| | Rated Voltage: | 3.87V |
| | Charge Limit: | 4.45V |
| | Manufacturer: | Sunwoda Electronic Co., Ltd. |
| | Battery 2 | |
| | Brand Name: | realme |
| | Model No.: | BLP729 |
| | Serial No.: | (N/A, marked #1 by test site) |
| | Capacity: | 4880mAh |
| | Rated Voltage: | 3.87V |
| | Charge Limit: | 4.45V |
| | Manufacturer: | Huizhou Desay Battery Co.,Ltd |
| | USB Cable | |
| | Model No.: | DL122 |

Note:

1. There are two kinds of batteries. For the RE and CE, only the worst case (Battery 2) is recorded in this report.
2. There are eight kinds of adapters. For the RE and CE, only the worst case (Adapter 7) is recorded in this report.
3. For a more detailed description, please refer to specification or user's manual supplied by the applicant and/or manufacturer



2. Test Results

2.1. Applied Reference Documents

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

| No. | Identity | Document Title |
|-----|----------------|-------------------------|
| 1 | 47 CFR Part 15 | Radio Frequency Devices |

Test detailed items/section required by FCC rules and results are as below:

| No. | Section | Description | Test Date | Test Engineer | Result | Method Determination Remark |
|-----|---------|--------------------|------------|---------------|--------|-----------------------------|
| 1 | 15.107 | Conducted Emission | 2021.01.07 | Huang Zhiye | PASS | No deviation |
| 2 | 15.109 | Radiated Emission | 2021.01.05 | Lin Jiayong | PASS | No deviation |

Note 1: The tests were performed according to the method of measurements prescribed in ANSI C63.4-2014.

Note 2: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% risk level.



2.2. EUT Setup and Operating Conditions

Note: All of the following test modes are tested in all the test items.

| Test Modes | |
|---|---|
| Mode 1 | : GSM850 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card |
| Mode 2 | : WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card |
| Mode 3 | : LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card |
| Mode 4 | : WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + GPS Rx + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card |
| Mode 5 | : WCDMA BandV Idle + Bluetooth Idle + WLAN Idle + GLONASS Rx + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card |
| Mode 6 | : GSM1900 Idle + Bluetooth Idle + WLAN Idle + Galileo Rx + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card |
| Mode 7 | : LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + BeiDou Rx + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card |
| Mode 8 | : LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Camera + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card |
| Mode 9 | : LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + SBAS Rx + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card |
| Mode 10 | : LTE Band 38 Idle + Bluetooth Idle + WLAN Idle + PC + Battery + Earphone + USB Cable + SIM Card |
| Mode 11 | : LTE Band 26 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card |
| Mode 12 | : LTE Band 41 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card |
| Mode 11 | : LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card |
| Mode 12 | : LTE Band 17 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card |
| Mode 12 | : LTE Band 66 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card |
| Remark: | |
| The above test mode in boldface (Mode 8) was the worst case of conducted emission test, only the test data of these modes were reported. The above test mode in boldface (Mode 10) was the worst case of radiated emission test, only the test data of these modes were reported. | |



During the measurement, the environmental conditions were within the listed ranges:

| | |
|-----------------------------|----------|
| Temperature (°C): | 15 - 35 |
| Relative Humidity (%): | 30 - 60 |
| Atmospheric Pressure (kPa): | 86 - 106 |

3. 47 CFR Part 15B Requirements

3.1. Conducted Emission

3.1.1. Requirement

According to FCC section 15.107, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

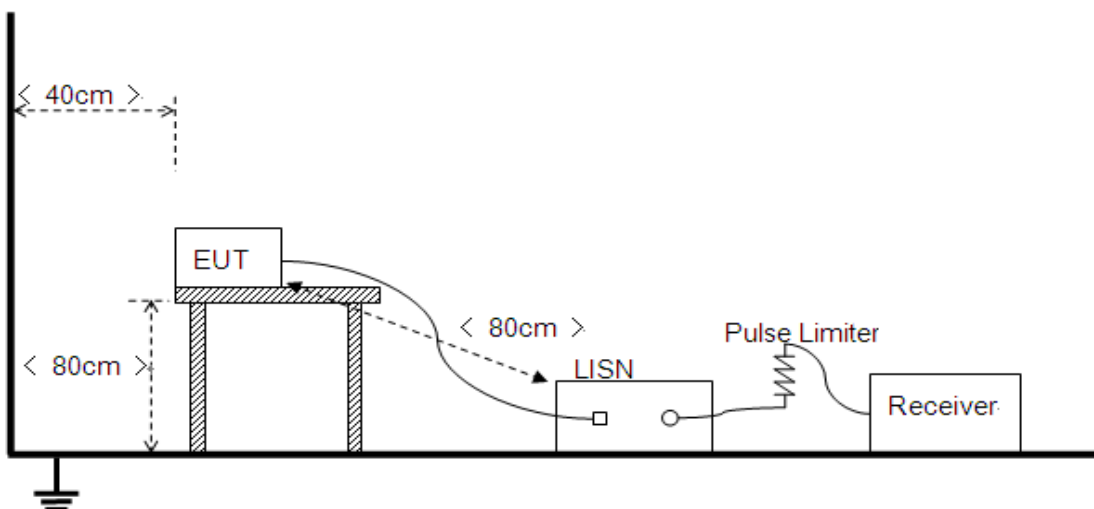
| Frequency Range (MHz) | Conducted Limit (dBμV) | |
|-----------------------|------------------------|----------|
| | Quasi-peak | Average |
| 0.15 - 0.50 | 66 to 56 | 56 to 46 |
| 0.50 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

Note:

- a) The limit subjects to the Class B digital device.
- b) The lower limit shall apply at the band edges.
- c) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.1.2. Test Setup

Please refer to Annex A for the photographs of the Test Configuration.





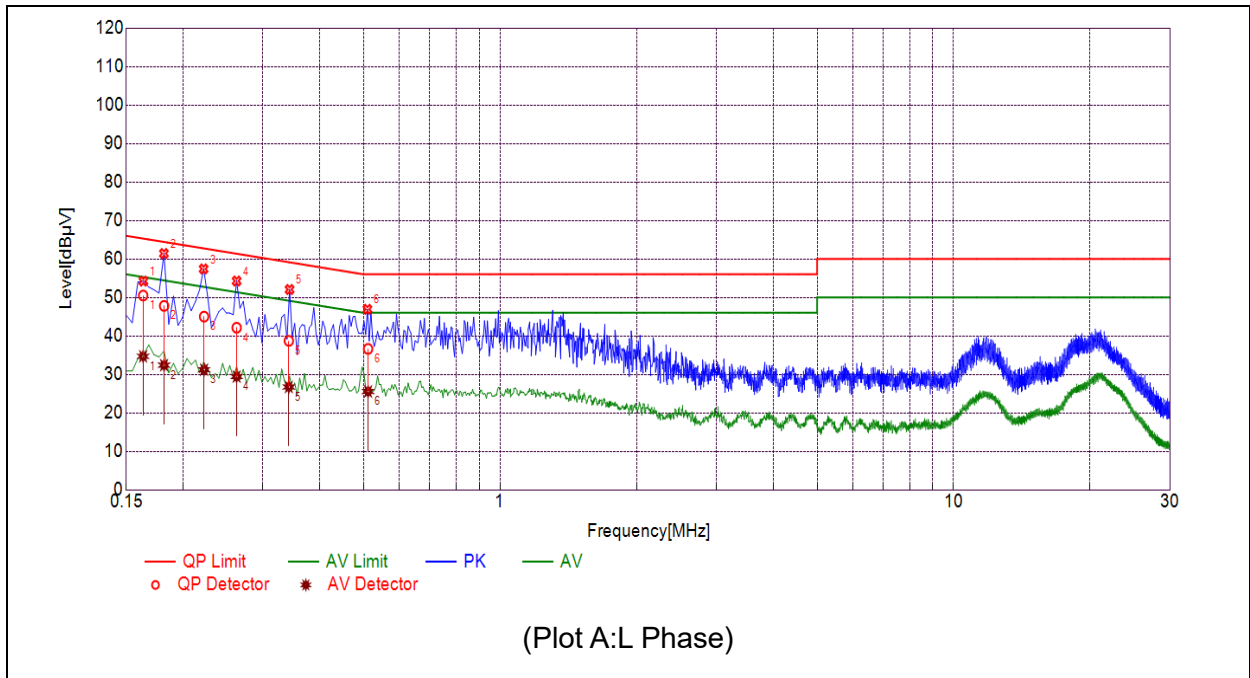
The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides $50\Omega/50\mu\text{H}$ of coupling impedance for the measuring instrument. A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

The power strip or extension cord has been investigated to make sure that the LISN integrity is maintained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

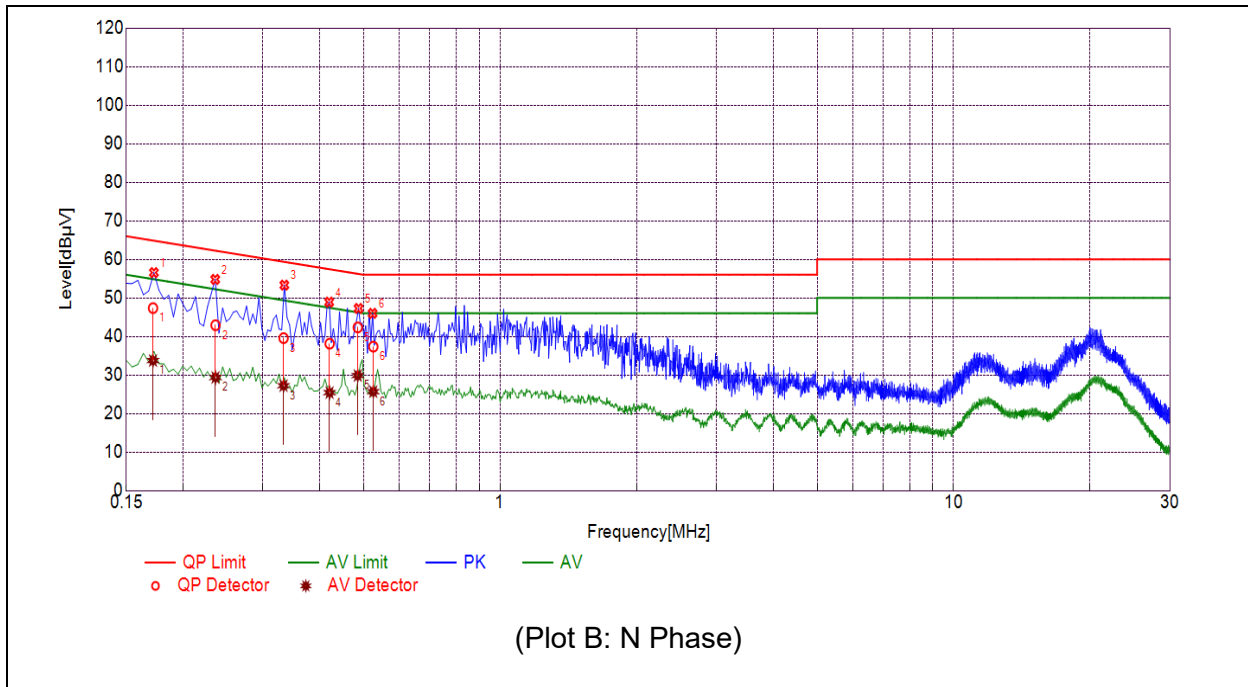
3.1.3. Test Result

The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. All test modes are considered, refer to recorded points and plots below.

A. Test Plot and Suspicious Points:



| NO. | Fre. (MHz) | Emission Level (dBµV) | | Limit (dBµV) | | Power-line | Verdict |
|-----|------------|-----------------------|---------|--------------|---------|------------|---------|
| | | Quai-peak | Average | Quai-peak | Average | | |
| 1 | 0.1633 | 50.49 | 34.69 | 65.30 | 55.30 | Line | PASS |
| 2 | 0.1816 | 47.81 | 32.39 | 64.41 | 54.41 | | PASS |
| 3 | 0.2225 | 45.01 | 31.21 | 62.72 | 52.72 | | PASS |
| 4 | 0.2625 | 42.13 | 29.43 | 61.35 | 51.35 | | PASS |
| 5 | 0.3421 | 38.72 | 26.72 | 59.15 | 49.15 | | PASS |
| 6 | 0.5116 | 36.64 | 25.56 | 56.00 | 46.00 | | PASS |



| NO. | Fre. (MHz) | Emission Level (dBµV) | | Limit (dBµV) | | Power-line | Verdict |
|-----|------------|-----------------------|---------|--------------|---------|------------|---------|
| | | Quai-peak | Average | Quai-peak | Average | | |
| 1 | 0.1717 | 47.36 | 33.74 | 64.88 | 54.88 | Neutral | PASS |
| 2 | 0.2358 | 42.91 | 29.35 | 62.24 | 52.24 | | PASS |
| 3 | 0.3331 | 39.56 | 27.23 | 59.37 | 49.37 | | PASS |
| 4 | 0.4208 | 38.13 | 25.43 | 57.43 | 47.43 | | PASS |
| 5 | 0.4855 | 42.34 | 29.86 | 56.24 | 46.24 | | PASS |
| 6 | 0.5253 | 37.35 | 25.68 | 56.00 | 46.00 | | PASS |



3.2. Radiated Emission

3.2.1. Requirement

According to FCC section 15.109 (a), the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency Range (MHz) | Field Strength Limitation at 3m Measurement Dist | |
|-----------------------|--|------------------------------|
| | ($\mu\text{V/m}$) | ($\text{dB}\mu\text{V/m}$) |
| 30.0 - 88.0 | 100 | 20log 100 |
| 88.0 - 216.0 | 150 | 20log 150 |
| 216.0 - 960.0 | 200 | 20log 200 |
| Above 960.0 | 500 | 20log 500 |

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Note:

- 1) The tighter limit shall apply at the boundary between two frequency range.
- 2) Limitation expressed in $\text{dB}\mu\text{V/m}$ is calculated by $20\log$ Emission Level($\mu\text{V/m}$).

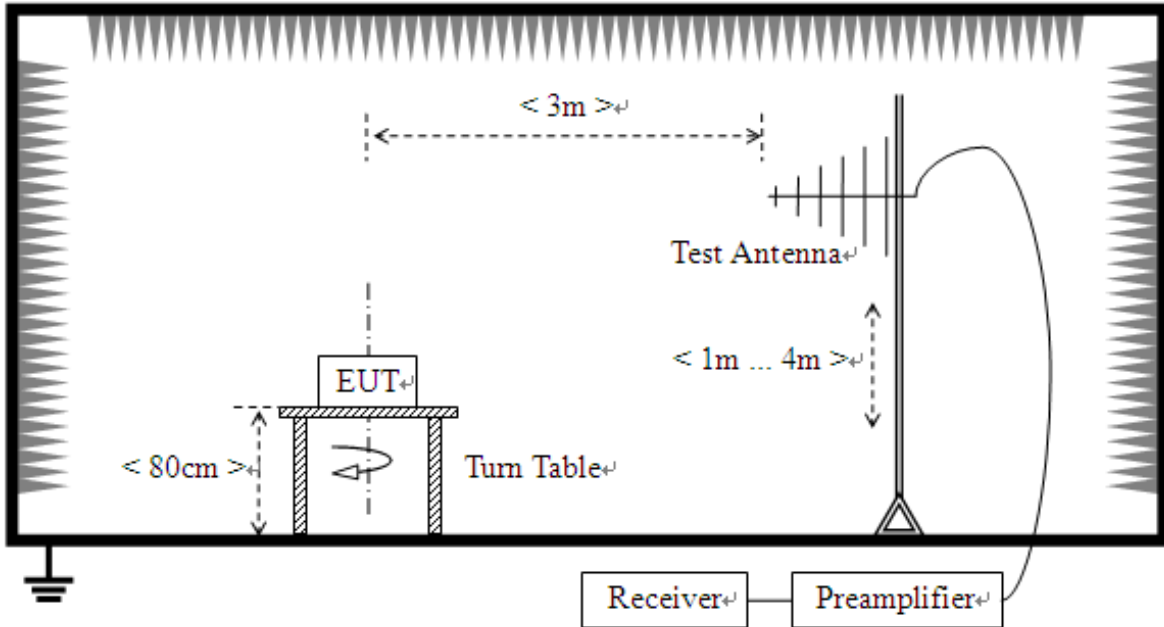
3.2.2. Frequency Range of Measurement

According to 15.33(b)(1), the frequency range of radiated measurement for the EUT is listed in the following table:

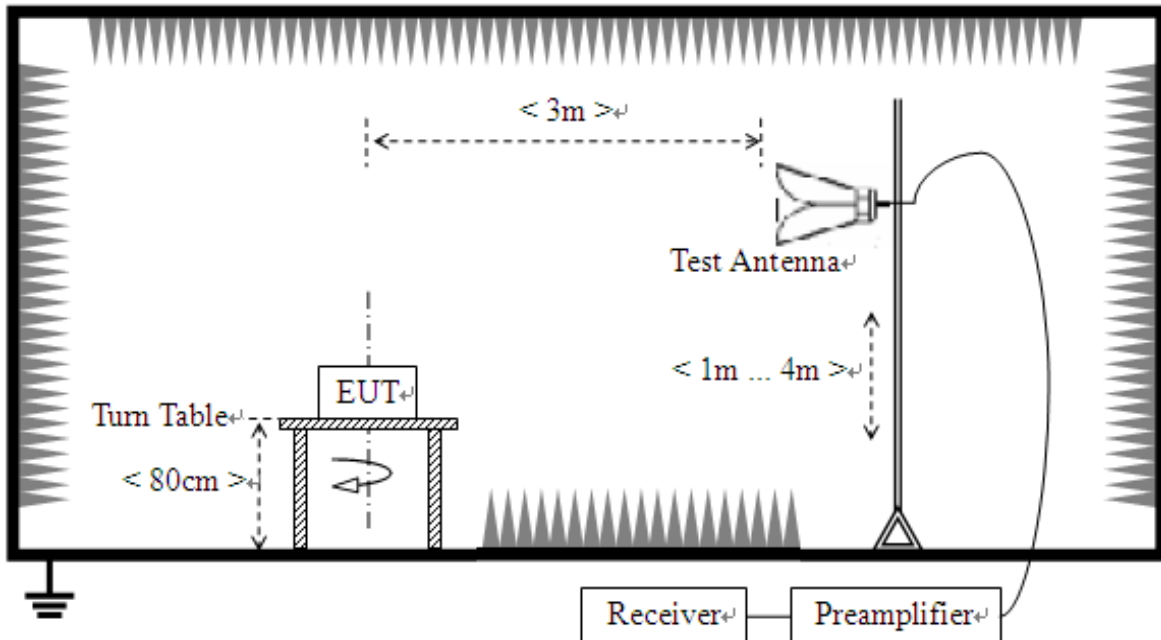
| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz) |
|--|--|
| Below 1.705 | 30. |
| 1.705-108 | 1000. |
| 108-500 | 2000. |
| 500-1000 | 5000. |
| Above 1000 | 5th harmonic of the highest frequency or 40 GHz, whichever is lower. |

3.2.3. Test Setup

- 1) For radiated emissions from 30MHz to1GHz



- 2) For radiated emissions above 1GHz





The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on variable-height antenna master tower.

For the test Antenna:

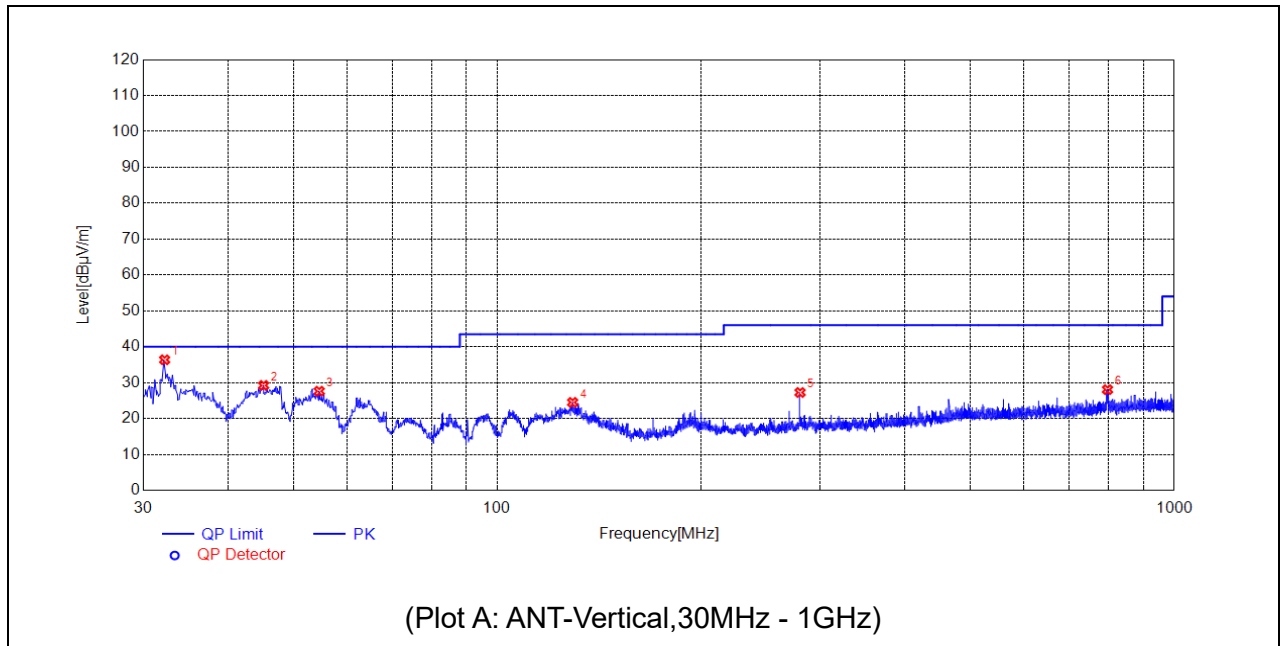
In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

3.2.4. Test Result

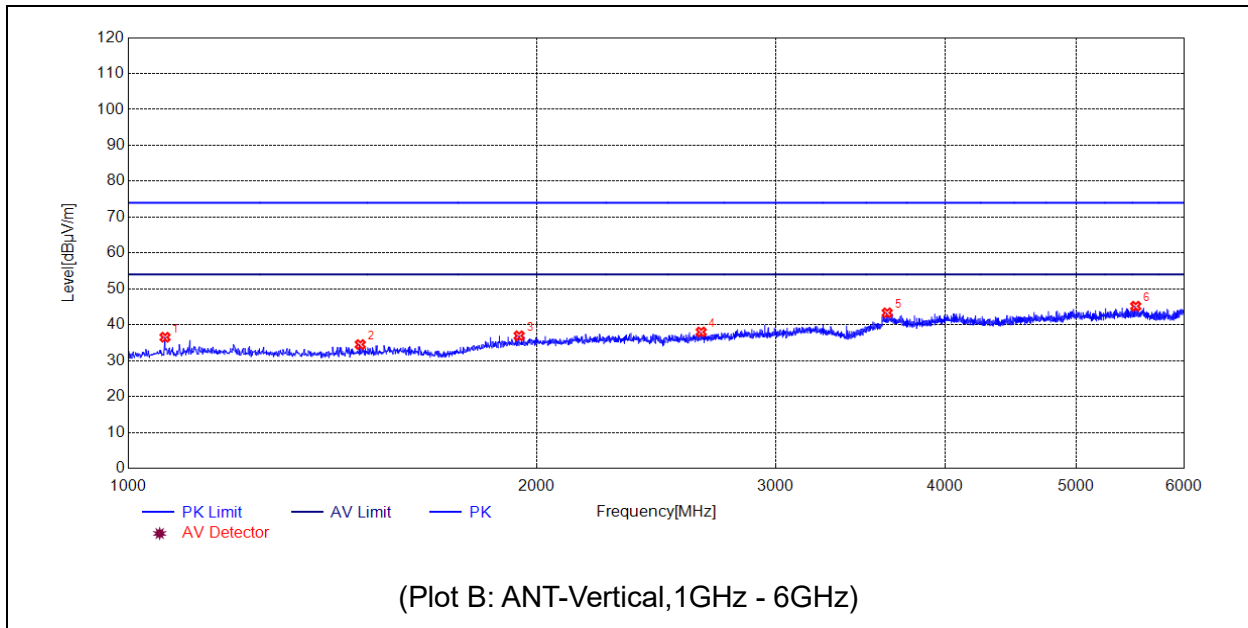
The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

The amplitude of emissions (6GHz-14GHz) which are attenuated more than 20 dB below the permissible value need not be reported.

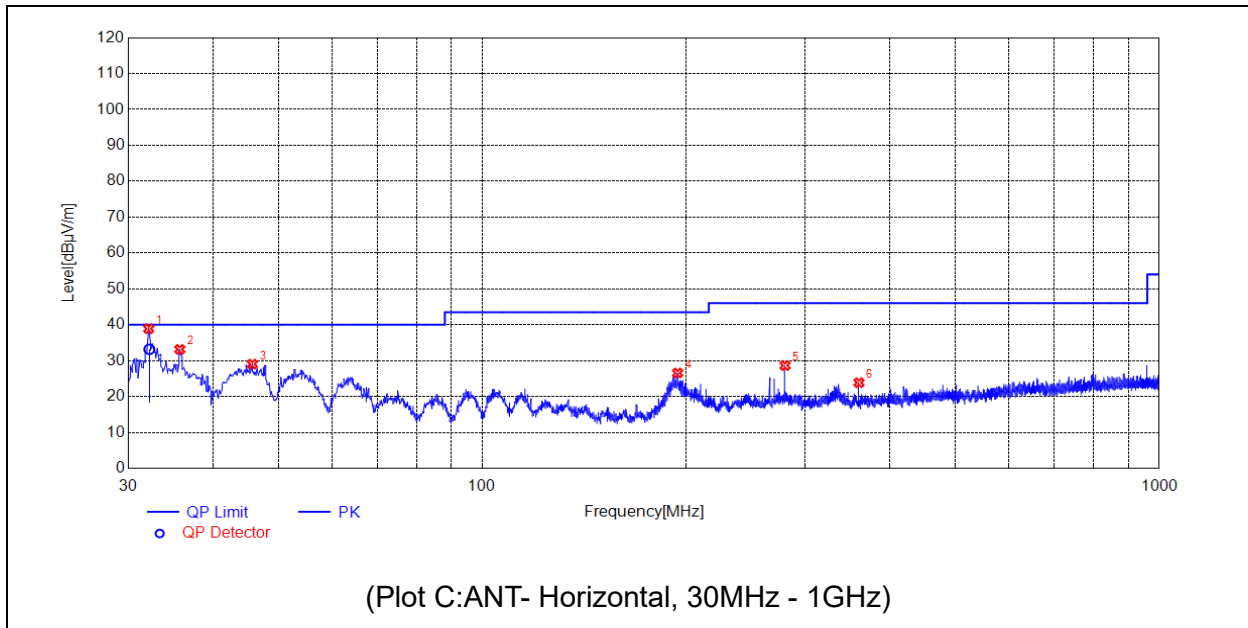
Note: All radiated emission tests were performed in X, Y, Z axis direction, and only the worst axis test condition was recorded in this test report.



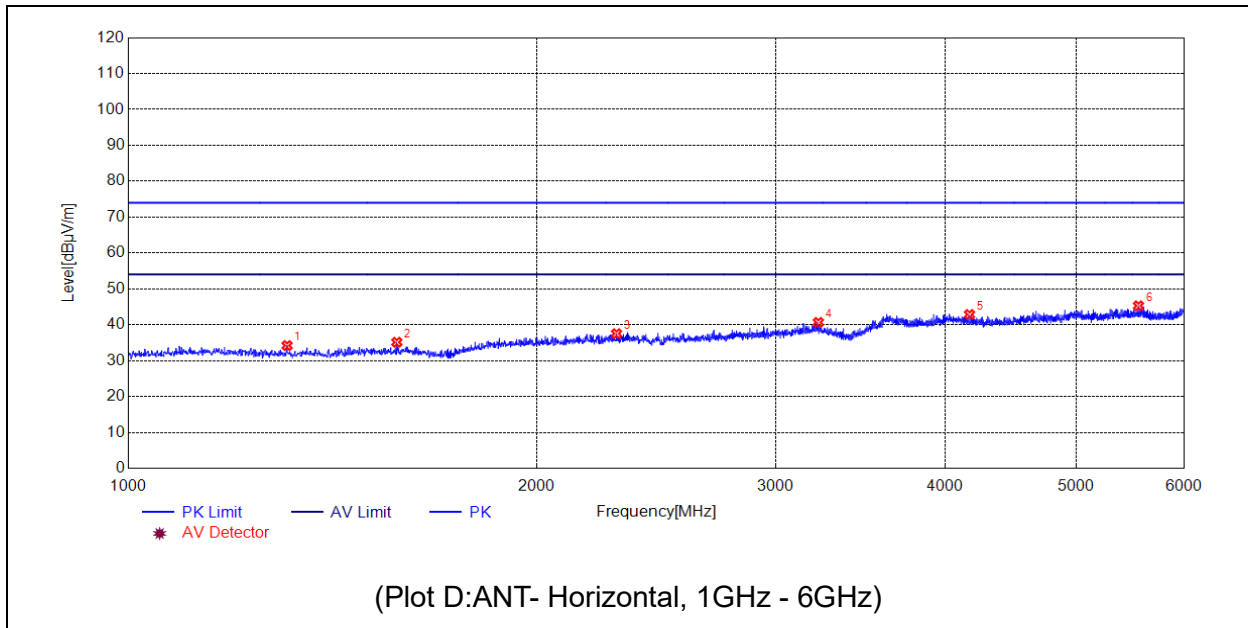
| No. | Fre. MHz | PK dBµV/m | QP dBµV/m | AV dBµV/m | Limit-PK dBµV/m | Limit-QP dBµV/m | Limit-AV dBµV/m | ANT | Verdict |
|-----|----------|-----------|-----------|-----------|-----------------|-----------------|-----------------|-----|---------|
| 1 | 32.2312 | 36.37 | N.A | N.A | N.A | 40.00 | N.A | V | PASS |
| 2 | 45.1335 | 29.23 | N.A | N.A | N.A | 40.00 | N.A | V | PASS |
| 3 | 54.5435 | 27.62 | N.A | N.A | N.A | 40.00 | N.A | V | PASS |
| 4 | 129.1439 | 24.51 | N.A | N.A | N.A | 43.50 | N.A | V | PASS |
| 5 | 279.9940 | 27.26 | N.A | N.A | N.A | 46.00 | N.A | V | PASS |
| 6 | 796.6677 | 28.06 | N.A | N.A | N.A | 46.00 | N.A | V | PASS |



| No. | Fre. MHz | PK dBµV/m | QP dBµV/m | AV dBµV/m | Limit-PK dBµV/m | Limit-QP dBµV/m | Limit-AV dBµV/m | ANT | Verdict |
|-----|-----------|-----------|-----------|-----------|-----------------|-----------------|-----------------|-----|---------|
| 1 | 1064.0128 | 36.52 | N.A | N.A | 74.00 | N.A | 54.00 | V | PASS |
| 2 | 1482.0964 | 34.49 | N.A | N.A | 74.00 | N.A | 54.00 | V | PASS |
| 3 | 1941.1882 | 36.93 | N.A | N.A | 74.00 | N.A | 54.00 | V | PASS |
| 4 | 2644.3289 | 37.99 | N.A | N.A | 74.00 | N.A | 54.00 | V | PASS |
| 5 | 3626.5253 | 43.32 | N.A | N.A | 74.00 | N.A | 54.00 | V | PASS |
| 6 | 5530.9062 | 45.17 | N.A | N.A | 74.00 | N.A | 54.00 | V | PASS |



| No. | Fre. MHz | PK dBµV/m | QP dBµV/m | AV dBµV/m | Limit-PK dBµV/m | Limit-QP dBµV/m | Limit-AV dBµV/m | ANT | Verdict |
|-----|----------|-----------|-----------|-----------|-----------------|-----------------|-----------------|-----|---------|
| 1 | 32.1342 | 38.90 | 33.18 | N.A | N.A | 40.00 | N.A | H | PASS |
| 2 | 35.7236 | 33.14 | N.A | N.A | N.A | 40.00 | N.A | H | PASS |
| 3 | 45.7156 | 29.03 | N.A | N.A | N.A | 40.00 | N.A | H | PASS |
| 4 | 194.2374 | 26.57 | N.A | N.A | N.A | 43.50 | N.A | H | PASS |
| 5 | 279.9940 | 28.63 | N.A | N.A | N.A | 46.00 | N.A | H | PASS |
| 6 | 359.9300 | 23.86 | N.A | N.A | N.A | 46.00 | N.A | H | PASS |



| No. | Fre. MHz | PK dBµV/m | QP dBµV/m | AV dBµV/m | Limit-PK dBµV/m | Limit-QP dBµV/m | Limit-AV dBµV/m | ANT | Verdict |
|-----|-----------|-----------|-----------|-----------|-----------------|-----------------|-----------------|-----|---------|
| 1 | 1309.0618 | 34.21 | N.A | N.A | 74.00 | N.A | 54.00 | H | PASS |
| 2 | 1577.1154 | 35.13 | N.A | N.A | 74.00 | N.A | 54.00 | H | PASS |
| 3 | 2290.2581 | 37.53 | N.A | N.A | 74.00 | N.A | 54.00 | H | PASS |
| 4 | 3226.4453 | 40.66 | N.A | N.A | 74.00 | N.A | 54.00 | H | PASS |
| 5 | 4170.6341 | 42.87 | N.A | N.A | 74.00 | N.A | 54.00 | H | PASS |
| 6 | 5556.9114 | 45.29 | N.A | N.A | 74.00 | N.A | 54.00 | H | PASS |



Annex A Test Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Uncertainty of Conducted Emission Measurement

| | | |
|--|--------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95%(U=2Uc(y)) | 9kHz-150kHz | ±3.3dB |
| | 150kHz-30MHz | ±2.8dB |

Uncertainty of Radiated Emission Measurement

| | | |
|--|----------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95%(U=2Uc(y)) | 30MHz-200MHz | ±5.06dB |
| | 200MHz-1000MHz | ±5.04dB |
| | 1GHz-6GHz | ±5.18dB |
| | 6GHz-18GHz | ±5.48dB |



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

| | |
|----------------------------|--|
| Laboratory Name: | Shenzhen Morlab Communications Technology Co., Ltd.Morlab Laboratory |
| Laboratory Address: | FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China |
| Telephone: | +86 755 36698555 |
| Facsimile: | +86 755 36698525 |

2. Identification of the Responsible Testing Location

| | |
|-----------------|--|
| Name: | Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory |
| Address: | FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China |

3. Accreditation Certificate

| | |
|---------------------------------------|--|
| Accredited Testing Laboratory: | The FCC designation number is CN1192. Test firm registration number is 226174. (Shenzhen Morlab Communications Technology Co., Ltd.) |
|---------------------------------------|--|

4. Test Software Utilized

| Model | Version Number | Producer |
|-----------------|-----------------------|-----------------|
| JS32-RE | Version 2.0.2.0 | Tonscend |
| TS+ -[JS32-CE] | Version2.5.0.0 | Tonscend |

**5. Test Equipments Utilized**

| Description | Manufacturer | Model | Serial No. | Cal. Date | Due. Date |
|-----------------------------------|--------------|--------------|--------------------|------------|------------|
| MXE EMI Receiver | Agilent | N9038A | MY54130016 | 2020.07.21 | 2021.07.20 |
| Test Receiver | R&S | ESPI | 101052 | 2020.07.21 | 2021.07.20 |
| LISN | Schwarzbeck | NSLK 8127 | 8127449 | 2020.03.26 | 2021.03.25 |
| Pulse Limiter (10dB) | Schwarzbeck | VTSD 9561-F | VTSD 9561 F-B #206 | 2020.07.24 | 2021.07.23 |
| Test Antenna - Bi-Log | Schwarzbeck | VULB 9163 | VULB 9163-519 | 2019.05.24 | 2022.05.23 |
| Test Antenna - Horn | Schwarzbeck | BBHA 9120D | 9120D-963 | 2019.05.24 | 2022.05.23 |
| Radiated Disturbance Preamplifier | rflight | S020180L3203 | 61171/61172 | 2020.07.21 | 2021.07.20 |
| Radiated Disturbance Preamplifier | rflight | S10M100L3802 | 46732 | 2020.07.21 | 2021.07.20 |
| Semi-Anechoic Chamber | CRT | 9m*6m*6m | N/A | 2020.01.06 | 2023.01.05 |

6. Ancillary Equipment Utilized

| Description | Manufacturer | Model | Serial No. |
|-------------|--------------|-------|------------|
| PC | APPLE | A1370 | N/A |
| Adapter | APPLE | A1374 | N/A |

_____ END OF REPORT _____