

FCC TEST REPORT FCC ID: 2ACWB-TRV6K

On Behalf of

mophie LLC

mophie powerstation hub

Model No.: TRVLSTION-WRLS-6K

Prepared for : mophie LLC

Address : 6244 Technology Ave. Kalamazoo, MI 49009 U.S.A.

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, Address

518103, Shenzhen, Guangdong, China

Report Number : T1904085-C01-R03

Date of Receipt : April 19, 2019

Date of Test : April 19, 2019 – May 25, 2019

Date of Report : May 28, 2019

Version Number : V0

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TEST REPORT DECLARATION

Applicant : mophie LLC

Address : 6244 Technology Ave. Kalamazoo, MI 49009 U.S.A.

Manufacturer : mophie LLC

Address : 6244 Technology Ave. Kalamazoo, MI 49009 U.S.A.

EUT

Description : mophie powerstation hub

(A) Model No. : TRVLSTION-WRLS-6K

(B) Trademark : Tr

Measurement Standard Used:

FCC CFR Title 47 Part 15 Subpart C Section 15.209

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC CFR Title 47 Part 15 Subpart C Section 15.209 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature)...... Ella Liang Project Engineer

Approved by (name + signature)......: Simple Guan
Project Manager

Date of issue..... May 28, 2019

Revision History

| Revision | Issue Date | Revisions | Revised By |
|----------|--------------|------------------------|-------------|
| V0 | May 28, 2019 | Initial released Issue | Simple Guan |

1. Test Result Summary

| Requirement | CFR 47 Section | Result |
|----------------------------------|----------------|--------|
| Antenna requirement | §15.203 | PASS |
| AC Power Line Conducted Emission | §15.207 | PASS |
| Spurious Emission | §15.209(a)(f) | PASS |
| Occupied Bandwidth | §15.215 (c) | PASS |

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

2. General Information

2.1. Description of Device (EUT)

EUT Name : mophie powerstation hub

Model No. : TRVLSTION-WRLS-6K

DIFF. : N/A

Trademark : mophie

Power supply : Input voltage (AC): AC 100V-240V~50/60Hz, 0.55A

Input voltage (DC): DC 5V/3A, DC 9V/2A, DC12V/1.5A

Total Output: 23W Output(QI): 5W

Output(USB-C PD): DC 5V/3A, DC 9V/2A, DC 12V/1.5A Output(USB-A QC): DC 5V/3A, DC 9V/2A, DC 12V/1.5A

Output(USB-A): DC 5V/3A

Battery: DC 3.6V, 6100mAh, 21.96Wh

Operation frequency : 127KHz

Modulation : ASK

Antenna Type : Coil Antenna

Software version : V1.0

Hardware version : FPB1-AC-DC-DVT2-V02

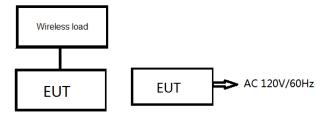
2.2. Accessories of Device (EUT)

Accessories1 : /
Manufacturer : /
Model : /
Ratings : /

2.3. Tested Supporting System Details

| No. | Description | Manufacturer | Model | Serial Number | Certification or DOC |
|-----|---------------|--------------|-------|---------------|----------------------|
| 1 | Load | | | | |
| 2 | Wireless load | | | | |

2.4. Block Diagram of connection between EUT and simulators



2.5. Description of Test Modes

| Channel | Frequency (KHz) | | | |
|---------|--------------------|--|--|--|
| 1 | 127 | | | |

2.6. Test Conditions

| Items | Required | Actual | |
|--------------------|-----------|--------|--|
| Temperature range: | 15-35℃ | 24℃ | |
| Humidity range: | 25-75% | 56% | |
| Pressure range: | 86-106kPa | 98kPa | |

2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission

Registration Number: 293961

July 25, 2017 Certificated by IC Registration Number: 12135A

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

| Item | MU | Remark |
|---|----------------------|-------------|
| Uncertainty for Conducted Emission Test | 2.74dB | |
| Uncertainty for Radiation Emission test in 3m chamber | 2.13 dB | Polarize: V |
| (below 30MHz) | 2.57dB | Polarize: H |
| Uncertainty for Radiation Emission test in 3m chamber | 3.77dB | Polarize: V |
| (30MHz to 1GHz) | 3.80dB | Polarize: H |
| Uncertainty for Radiation Emission test in 3m chamber | 4.16dB | Polarize: H |
| (1GHz to 25GHz) | 4.13dB | Polarize: V |
| Uncertainty for radio frequency | 5.4×10 ⁻⁸ | |
| Uncertainty for conducted RF Power | 0.37dB | |

| Equipment | Manufacture | Model No. | Serial No. | Last cal. | Cal Interval |
|------------------------|-------------------|-----------------------------|-------------------|------------|--------------|
| 9*6*6 anechoic chamber | CHENYU | 9*6*6 | N/A | 2018.09.21 | 1Year |
| Spectrum analyzer | ROHDE&SCHW ARZ | FSU | 1166.1660.26 | 2018.09.21 | 1Year |
| Spectrum analyzer | Agilent | N9020A | MY499100060 | 2018.09.11 | 1Year |
| Receiver | R&S | ESCI | 1166.5950K03-1011 | 2018.09.21 | 1Year |
| Receiver | R&S | ESCI | 101202 | 2018.09.21 | 1Year |
| Bilog Antenna | Schwarzbeck | VULB 9168 | VULB9168-438 | 2018.04.13 | 2Year |
| Loop Antenna | SCHWARZBEC K | FMZB 1519B | 00059 | 2018.09.26 | 2Year |
| Cable | Resenberger | N/A | No.1 | 2018.09.21 | 1Year |
| Cable | SCHWARZBEC K | N/A | No.2 | 2018.09.21 | 1Year |
| Cable | SCHWARZBEC K | N/A | No.3 | 2018.09.21 | 1Year |
| Pre-amplifier | Schwarzbeck | BBV9743 | 9743-019 | 2018.09.21 | 1Year |
| Pre-amplifier | R&S | AFS33-18002650- 30-8P-44 | SEL0080 | 2018.09.21 | 1Year |
| Temperature controller | Terchy | MHQ | 120 | 2018.09.21 | 1Year |
| L.I.S.N.#1 | Schwarzbeck | NSLK8126 | 8126466 | 2018.09.21 | 1Year |
| L.I.S.N.#2 | ROHDE&SCHW ARZ | ENV216 | 101043 | 2018.09.21 | 1 Year |
| 20db Attenuator | ICPROBING | IATS1 | 82347 | 2018.09.21 | 1 Year |

3. Test Results and Measurement Data

3.1. Conducted Emission

3.1.1. Test Specification

| Tool Dominoss suf- | EOO Danida O O/' | 45.007 | | | | |
|--------------------|--|-----------------|---------------|--|--|--|
| Test Requirement: | FCC Part15 C Section | 15.207 | | | | |
| Test Method: | ANSI C63.10:2013 | | | | | |
| Frequency Range: | 150 kHz to 30 MHz | | | | | |
| Receiver setup: | RBW=9 kHz, VBW=30 kHz, Sweep time=auto | | | | | |
| | Frequency range | Limit (d | dBuV) | | | |
| | (MHz) | Quasi-peak | Áverage | | | |
| Limits: | 0.15-0.5 | 66 to 56* | 56 to 46* | | | |
| | 0.5-5 | 56 | 46 | | | |
| | 5-30 | 60 | 50 | | | |
| | Refere | nce Plane | | | | |
| Test Setup: | Remark: E.U.T Adap Remark: E.U.T Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m | EMI Receiver | er — AC power | | | |
| Test Mode: | Charging + Transmitting | g Mode | | | | |
| Test Procedure: | The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. | | | | | |
| Test Result: | PASS | | | | | |

3.1.2. Test data

Please refer to following diagram for individual

Test Mode : Charging

Test Results : PASS

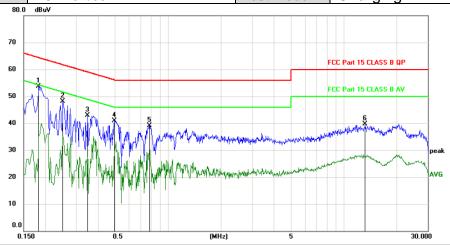
Note: The test results are listed in next pages.

This mode is worst case mode, so this report only reflected the worst mode.

If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out.

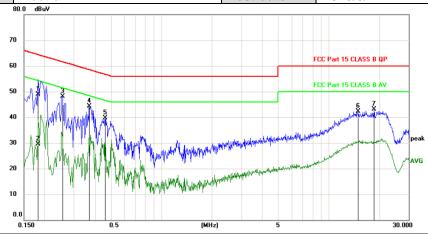
If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

| EUT Description | mophie powerstation hub | Model No. | TRVLSTION-WRLS-6K |
|------------------------|-------------------------|-----------|-------------------|
| Temperature | 24 °C | Humidity | 56% |
| Pol | Line | Test date | 2019/5/7 |
| Test Voltage | AC 120V/60Hz | Test mode | Charging |



| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margii | า | |
|---------|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBu∀ | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 * | 0.1830 | 44.07 | 9.67 | 53.74 | 64.35 | -10.61 | peak | |
| 2 | 0.2519 | 38.34 | 9.69 | 48.03 | 61.69 | -13.66 | peak | |
| 3 | 0.3480 | 33.18 | 9.70 | 42.88 | 59.01 | -16.13 | peak | |
| 4 | 0.4950 | 31.28 | 9.71 | 40.99 | 56.08 | -15.09 | peak | |
| 5 | 0.7830 | 29.41 | 9.73 | 39.14 | 56.00 | -16.86 | peak | |
| 6 | 13.2510 | 29.28 | 10.35 | 39.63 | 60.00 | -20.37 | peak | |

Pol Neutral Test date 2019/5/7



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margir | 1 | |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1830 | 39.30 | 9.67 | 48.97 | 64.35 | -15.38 | QP | |
| 2 | | 0.1830 | 19.90 | 9.67 | 29.57 | 54.35 | -24.78 | AVG | |
| 3 | * | 0.2550 | 38.42 | 9.69 | 48.11 | 61.59 | -13.48 | peak | |
| 4 | | 0.3690 | 34.65 | 9.70 | 44.35 | 58.52 | -14.17 | peak | |
| 5 | | 0.4590 | 30.00 | 9.71 | 39.71 | 56.71 | -17.00 | peak | |
| 6 | | 14.9220 | 31.96 | 10.39 | 42.35 | 60.00 | -17.65 | peak | |
| 7 | | 18.7200 | 32.75 | 10.44 | 43.19 | 60.00 | -16.81 | peak | |
| | | | | | | | | | |

^{*:}Maximum data x:Over limit !:over margin

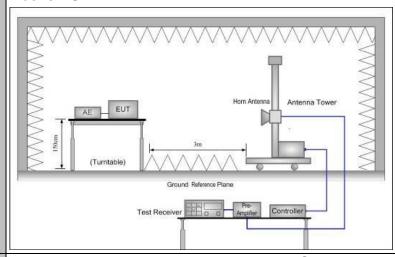
Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

3.2. Radiated Spurious Emission Measurement

3.2.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.209 | | | | | | | |
|-----------------------|--------------------------------------|--------------------------|----------------------------------|--------------|-----------------------------|-------------------------------|--|--|
| Test Method: | ANSI C63.10 |): 2013 | 3 | | | | | |
| Frequency Range: | 9 kHz to 25 GHz | | | | | | | |
| Measurement Distance: | 3 m | | | | | | | |
| Antenna Polarization: | Horizontal & Vertical | | | | | | | |
| Operation mode: | Refer to item 4.1 | | | | | | | |
| December Setum. | Frequency 9kHz- 150kHz 150kHz- | Dete Quasi- Quasi- | peak | | VBW 1kHz 30kHz | 1 | Remark si-peak Value si-peak Value | |
| Receiver Setup: | 30MHz 30MHz-1GHz | Quasi- | ·peak | 100KHz | 300KHz | Qua | si-peak Value | |
| | Above 1GHz | Pea | | 1MHz | 3MHz | | eak Value | |
| | Above 1GHz | Pea | ak | 1MHz | 10Hz | Ave | erage Value | |
| | Frequency | | | Field Stre | - | Measurement Distance (meters) | | |
| | 0.009-0.490 | | | 2400/F(l | | 300 | | |
| | 0.490-1.705 | | | 24000/F(KHz) | | 30 | | |
| | 1.705-30 30-88 | | | 30 100 | | 30 3 | | |
| | 88-216 | | | 150 | | 3 | | |
| Limit: | 216-960 | | | 200 | | 3 | | |
| | Above 960 | | | 500 | | | 3 | |
| | II Fredilency I | | Field Strength microvolts/meter) | | Measure Distan (meter | се | Detector | |
| | Above 1GHz | | | 500 | 3 | | Average | |
| | 5000 | | | 3 | | Peak | | |
| | For radiated emissions below 30MHz | | | | | | | |
| | Distance = 3m Computer | | | | | | | |
| Test setup: | Pre -Amplifier EUT | | | | | | Amplifier | |
| | | Turn ta | ble | | | | Receiver | |
| | | | Gro | ound Plane | | L | | |
| | 30MHz to 10 | 3Hz | | | _ | | | |

Above 1GHz



1. For the radiated emission test below 1GHz:

Test Procedure:

The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT. depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which

| | maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW 承BW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f □ 1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. |
|---------------|---|
| Test mode: | Refer to section 4.1 for details |
| Test results: | PASS |

3.2.2. Test Data

Please refer to following diagram for individual

Frequency : 9KHz~30MHz

Test Mode : TX: 127KHz (Full Load)

Test Results : PASS

Note: 1. The test results are listed in next pages.

2. This mode is worst case mode, so this report only reflected the worst mode.

3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out.

| Freq. | Reading | Antenna Factor | Cable loss | Amp Factor | Result | Limit | Margin | Detect | State |
|-------|----------|-------------------|------------|---------------|----------|--------------------|--------|--------|-------|
| (MHz) | (dBuV/m) | dB/m | dB | dB | (dBuV/m) | (dBuV/m) at 3 m | (dB) | or | P/F |
| 0.127 | 42.52 | 48.34 | 0.16 | 29.87 | 61.15 | 125.53 | -64.38 | PK | PASS |
| 0.127 | 35.93 | 48.34 | 0.16 | 29.87 | 54.56 | 105.53 | -50.97 | AV | PASS |
| 0.276 | 34.85 | 48.34 | 0.16 | 29.87 | 53.48 | 118.79 | -65.30 | PK | PASS |
| 0.395 | 34.38 | 48.38 | 0.17 | 29.89 | 53.04 | 115.67 | -62.63 | PK | PASS |
| 0.482 | 32.67 | 48.44 | 0.19 | 29.89 | 51.41 | 113.94 | -62.53 | PK | PASS |
| 0.539 | 30.37 | 48.47 | 0.19 | 29.89 | 49.14 | 112.97 | -63.84 | PK | PASS |
| 1.929 | 18.38 | 49.12 | 0.2 | 29.94 | 37.76 | 60 | -22.24 | QP | PASS |

Frequency 30MHz~1000MHz Range

Test Mode Full Load, Half Load, Empty Load

PASS Test Results

Note: 1. The test results are listed in next pages.

2. All test modes has been tested, this report only reflected the worst mode.

3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out.

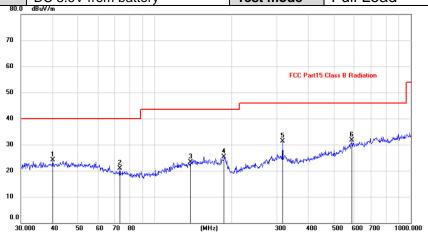
| Frequency Range | : Above 1GHz | |
|--------------------|--------------|-----------------|
| EUT | : / | Test Date : / |
| M/N | : / | Temperature : / |
| Test Engineer | : / | Humidity : / |
| Test Mode | : / | |
| Test Results | : N/A | |

Note:

1. The highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. So the frequency rang above 1GHz radiation test not applicable.

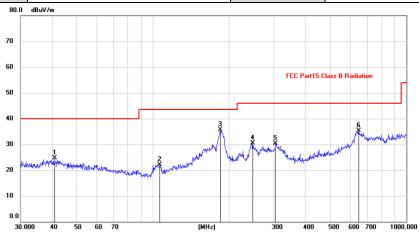
30MHz-1GHz

| EUT Description | mophie powerstation hub | Model No. | TRVLSTION-WRLS-6K |
|------------------------|-------------------------|-----------|-------------------|
| Temperature | 24 °C | Humidity | 56% |
| Pol | Vertical | Test date | 2019/5/6 |
| Test Voltage | DC 3.6V from battery | Test mode | Full Load |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBu∀ | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 39.9941 | 9.95 | 14.24 | 24.19 | 40.00 | -15.81 | peak | | | |
| 2 | | 73.1025 | 10.45 | 10.42 | 20.87 | 40.00 | -19.13 | peak | | | |
| 3 | | 137.9028 | 9.57 | 13.71 | 23.28 | 43.50 | -20.22 | peak | | | |
| 4 | | 187.0955 | 14.04 | 11.28 | 25.32 | 43.50 | -18.18 | peak | | | |
| 5 | | 316.5889 | 17.59 | 13.79 | 31.38 | 46.00 | -14.62 | peak | | | |
| 6 | * | 588.9048 | 12.69 | 18.98 | 31.67 | 46.00 | -14.33 | peak | | | |

Pol Horizontal Test date 2019/5/6



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | Antenna Height | Table Degree | |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 40.9881 | 10.61 | 14.11 | 24.72 | 40.00 | -15.28 | peak | | | |
| 2 | | 106.3850 | 10.97 | 11.19 | 22.16 | 43.50 | -21.34 | peak | | | |
| 3 | * | 184.4898 | 24.02 | 11.61 | 35.63 | 43.50 | -7.87 | peak | | | |
| 4 | | 247.6819 | 18.57 | 12.03 | 30.60 | 46.00 | -15.40 | peak | | | |
| 5 | | 305.6800 | 16.81 | 13.58 | 30.39 | 46.00 | -15.61 | peak | | | |
| 6 | | 649.6597 | 14.91 | 20.33 | 35.24 | 46.00 | -10.76 | peak | | | |

^{*:}Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

| Test Requirement: | FCC Part15 C Section 15.215(c) |
|-------------------|---|
| Test Method: | ANSI C63.10: 2013 |
| | |
| Limit: | N/A |
| Test Procedure: | According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW > 1% of the 20 dB bandwidth; VBW > RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report. |
| Test setup: | Spectrum Analyzer EUT |
| Test Mode: | Refer to section 4.1 for details |
| Test results: | PASS |

3.3.1. Test data

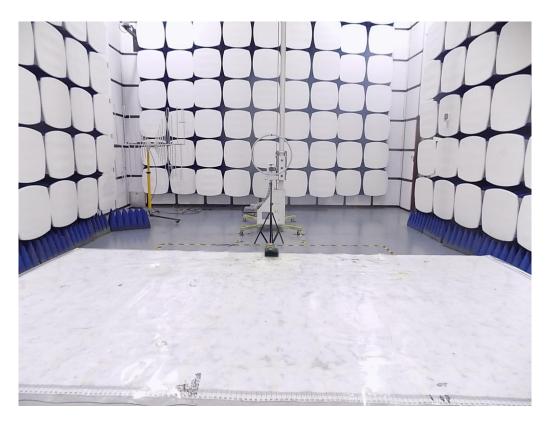
| Frequency(KHz) | 20dB Occupy Bandwidth (kHz) | Limit (kHz) | Conclusion |
|----------------|--------------------------------|-------------|------------|
| 127 | 16.95 | | PASS |

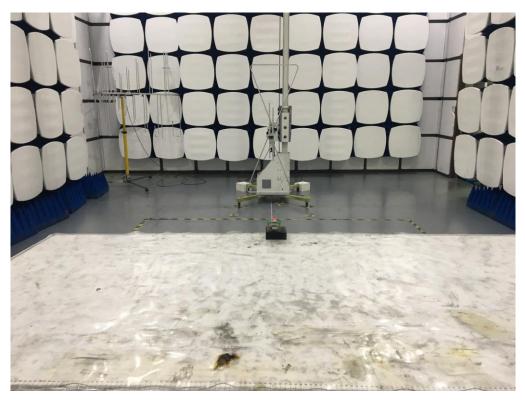
Test plots as follows:



4. Photos of test setup

Radiated Emission



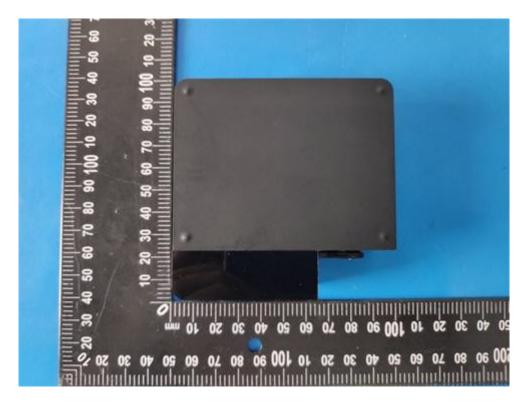


Conducted Emission

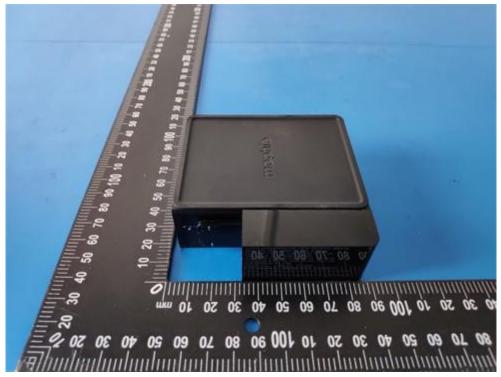


5. Photographs of EUT

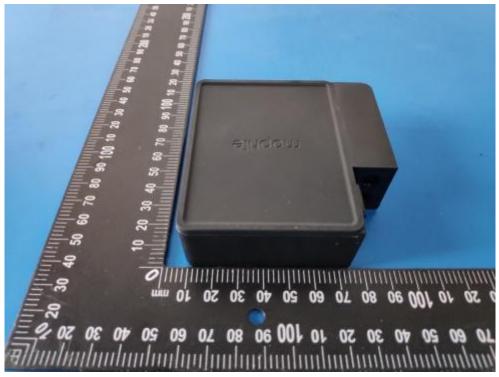






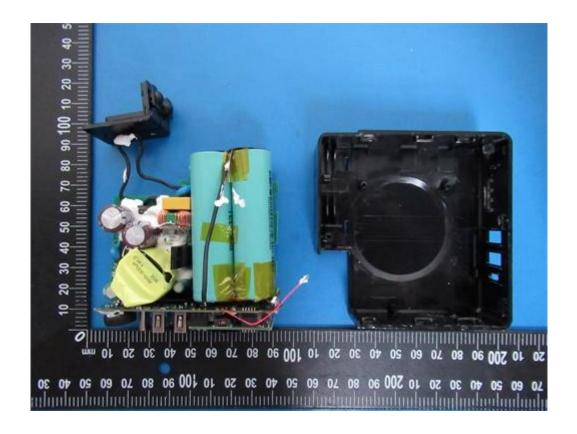


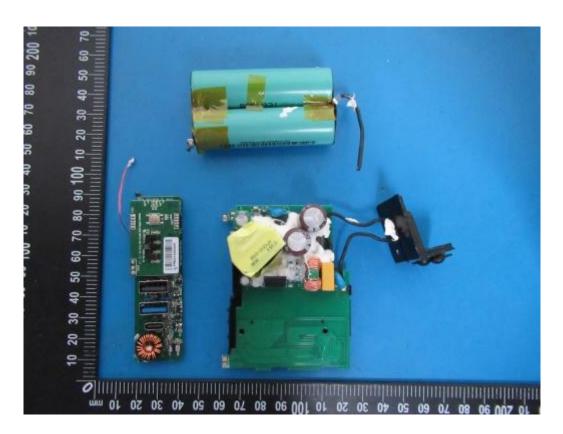


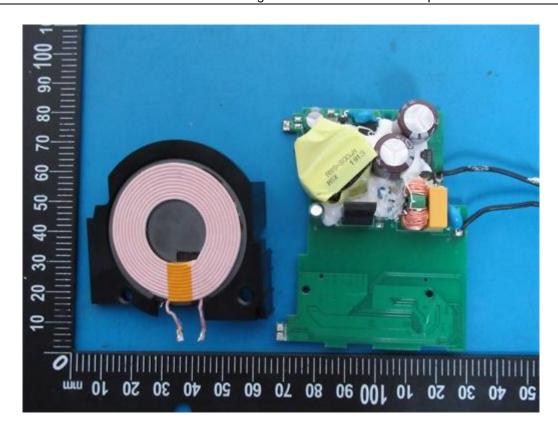


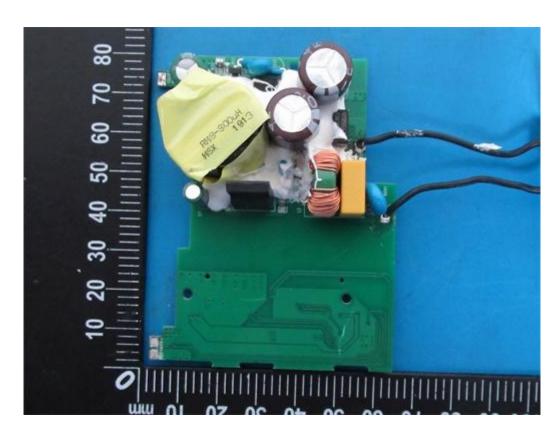


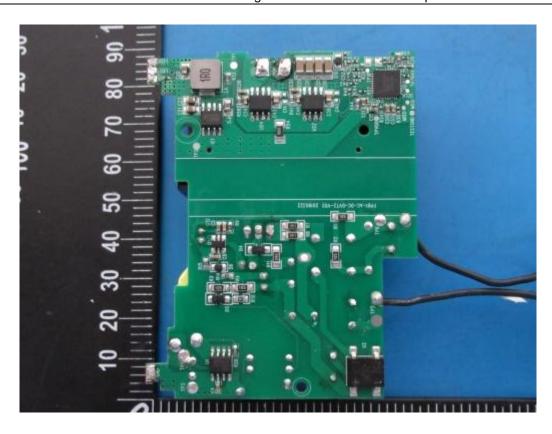


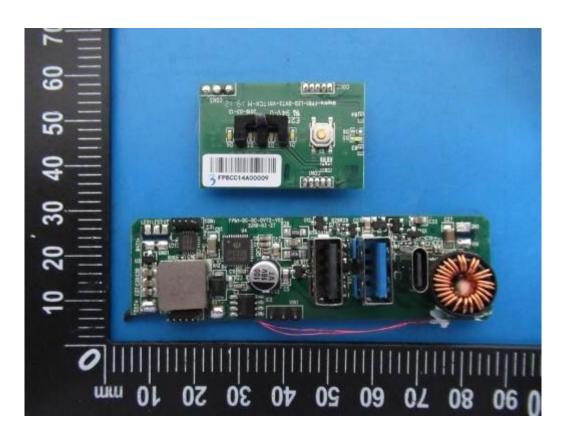


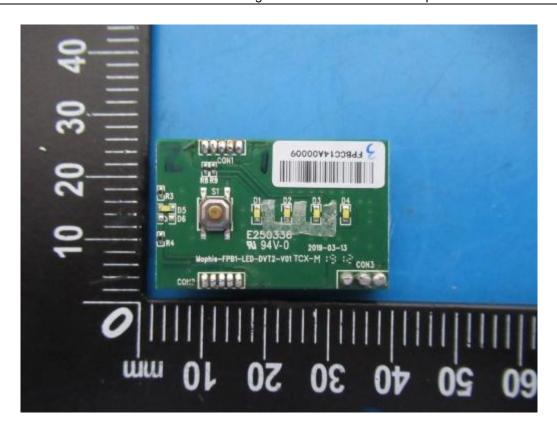


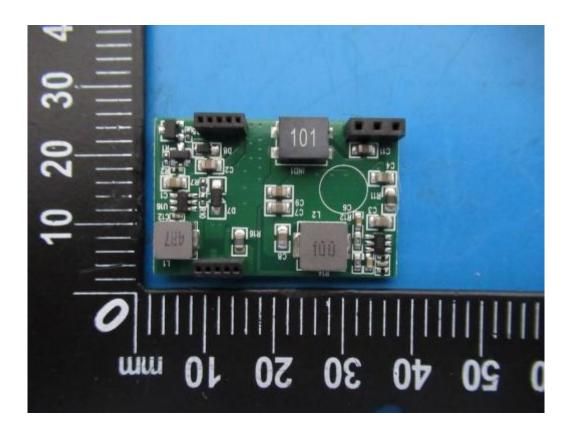


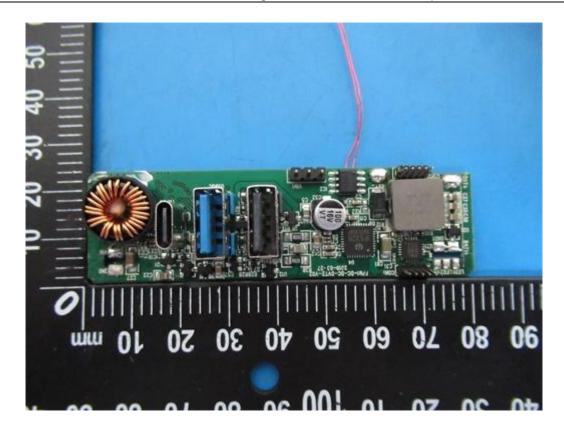


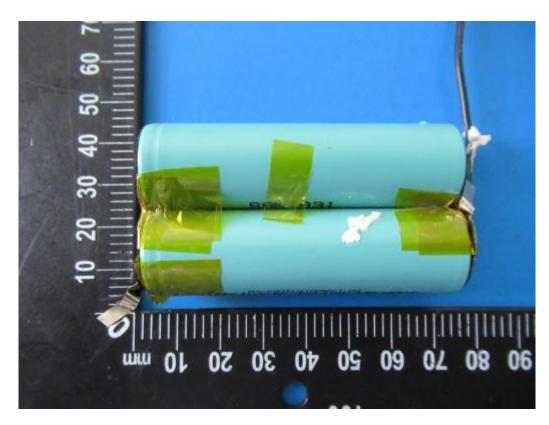












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