

CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 2 (DTS)

TEST REPORT

For

Portable Power Station

MODEL NUMBER: SR0KW6L-SG1-US, PS600-US, ALM-600USCA, XP2W600USCA, PW601-600

REPORT NUMBER: E04A23080505F00802

ISSUE DATE: December 27, 2023

FCC ID: 2BBDT-SR0KW6L-SG1

IC: 30669-SR0KW6L

Prepared for

CE LINK LIMITED

ROOM 2204 22/F TUNG CHIU COMMERCIAL CENTER 193 LOCKHART ROAD WANCHAI HONG KONG SAR CHINA

Prepared by

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TRF No.: 04-E001-1A Global Testing, Great Quality.

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Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|-------------------|---------------|------------|
| V0 | December 27, 2023 | Initial Issue | Joson |

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| Summary of Test Results | | | | | |
|--|--|---|--------|--|--|
| Test Item | Clause | Limit/Requirement | Result | | |
| Antenna Requirement | N/A | FCC Part 15.203/15.247 (c) RSS-GEN Clause 6.8 | Pass | | |
| AC Power Line Conducted Emission | ANSI C63.10-2013, Clause 6.2 | FCC Part 15.207 RSS-GEN Clause 8.8 | Pass | | |
| Conducted Output Power | ANSI C63.10-2013, Clause 11.9.1.3 | FCC Part 15.247 (b)(3) RSS-247 Clause 5.4 (d) | Pass | | |
| 6dB Bandwidth and 99% Occupied Bandwidth | ANSI C63.10-2013, Clause 11.8.1 | FCC Part 15.247 (a)(2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7 | Pass | | |
| Power Spectral Density | ANSI C63.10-2013, Clause 11.10.2 | FCC Part 15.247 (e) RSS-247 Clause 5.2 (b) | Pass | | |
| Conducted Band edge and spurious emission | ANSI C63.10-2013, Clause 11.11 | FCC Part 15.247(d) RSS-247 Clause 5.5 | Pass | | |
| Radiated Band edge and Spurious Emission | ANSI C63.10-2013, Clause 11.11 & Clause 11.12 | FCC Part 15.247 (d) FCC Part 15.205/15.209 RSS-247 Clause 5.5 RSS-GEN Clause 8.9 | Pass | | |
| Duty Cycle | ANSI C63.10-2013, Clause 11.6 | None; for reporting purposes only. | Pass | | |

^{*}The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C

ISED RSS-247 ISSUE 2 (DTS)> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: CE LINK LIMITED

Address: ROOM 2204 22/F TUNG CHIU COMMERCIAL CENTER 193

LOCKHART ROAD WANCHAI HONG KONG SAR CHINA

Manufacturer Information

Company Name: Dongguan Hinen New Energy Technology Co., Ltd

Address: No.24 Dongkang Road, Dalingshan Town, Dongguan City,

Guangdong Province, China

EUT Information

EUT Name: Portable Power Station

Model: SR0KW6L-SG1-US, PS600-US, ALM-600USCA,

XP2W600USCA, PW601-600

(All models have the same technical construction including circuit diagram, PCB layout and component layout, except for the model

San I Ce

name and trade mark, All tests was performed on model

SR0KW6L-SG1-US)

Brand: See the model list for details

Sample Received Date: August 30, 2023

Sample Status: Normal

Sample ID: A23080505 002

Date of Tested: August 30, 2023 to December 26, 2023

CERTIFICA

| APPLICABLE STANDARDS | | | | |
|------------------------------|------|--|--|--|
| STANDARD TEST RESULTS | | | | |
| CFR 47 FCC PART 15 SUBPART C | Door | | | |
| ISED RSS-247 ISSUE 2 (DTS) | Pass | | | |

Prepared By:

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Project Engineer

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General Manager

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 2 (DTS), SS

3. FACILITIES AND ACCREDITATION

| | A2LA (Certificate No.: 6947.01) |
|---------------------------|--|
| | Guangdong Global Testing Technology Co., Ltd. |
| | has been assessed and proved to be in compliance with A2LA. |
| | FCC (FCC Designation No.: CN1343) |
| | Guangdong Global Testing Technology Co., Ltd. |
| | has been recognized to perform compliance testing on equipment |
| Accreditation Certificate | subject to Supplier's Declaration of Conformity (SDoC) and Certification |
| | rules |
| | ISED (Company No.: 30714) |
| | Guangdong Global Testing Technology Co., Ltd. |
| | has been registered and fully described in a report filed with ISED. The |
| | Company Number is 30714 and the test lab Conformity Assessment |
| | Body Identifier (CABID) is CN0148. |

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Test Items | k | Uncertainty |
|------------------------------|------|-----------------------------|
| DTS Bandwidth | 1.96 | ±9.2 PPM |
| 20dB Emission Bandwidth | 1.96 | ±9.2 PPM |
| Carrier Frequency Separation | 1.96 | ±9.2 PPM |
| Time of Occupancy | 1.96 | ±0.57% |
| Conducted Output Power | 1.96 | ±1.5 dB |
| Power Spectral Density Level | 1.96 | ±1.9 dB |
| | | 9 kHz-30 MHz: ± 0.95 dB |
| Conducted Spurious Emission | 1.96 | 30 MHz-1 GHz: ± 1.5 dB |
| Conducted Spunous Emission | 1.90 | 1GHz-12.75GHz: ± 1.8 dB |
| | | 12.75 GHz-26.5 GHz: ± 2.1dB |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

| Test Item | Measurement Frequency Range | К | U(dB) |
|---|-----------------------------|---|-------|
| Conducted emissions from the AC mains power ports (AMN) | 150 kHz ~ 30 MHz | 2 | 3.37 |
| Radiated emissions | 9 kHz ~ 30 MHz | 2 | 4.16 |
| Radiated emissions | 30 MHz ~ 1 GHz | 2 | 3.79 |
| Radiated emissions | 1 GHz ~ 18 GHz | 2 | 5.62 |
| Radiated emissions | 18 GHz ~ 40 GHz | 2 | 5.54 |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

| EUT Name | | Portable Power Station |
|---------------|---------|---|
| Model | | SR0KW6L-SG1-US |
| Ratings | | AC Input: 100-120V~,60Hz, 10A max., 1200W max. Solar/Car input:12-20V === 10A max., 200W max. |
| Power Supply | DC | 120V~ |
| r ower Supply | Battery | / |

| Frequency Band: | 2400 MHz to 2483.5 MHz |
|---------------------|------------------------|
| Frequency Range: | 2402 MHz to 2480 MHz |
| Bluetooth Version: | Bluetooth 5.2 |
| Bluetooth Mode: | Bluetooth LE |
| Type of Modulation: | GFSK |
| Number of Channels: | 40 |
| Channel Separation: | 2 MHz |
| Maximum Peak Power: | 1.54 dBm |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | 2.2 dBi |
| Hardware version: | V1.0 |
| Software version: | V1.0 |

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Model list:

| Model No. | Ratings | Tra | de mark |
|--------------------|--|--------------|----------|
| SR0KW6L-SG1- US | Battery capacity: 512Wh, 25.6V === 20Ah Discharge temperature range: -20-45°C Charge temperature range: 0-45°C | CE-LINK | CE-LINK° |
| PS600-US | AC Input: 100-120V~,60Hz, 10A max., 1200W max. Solar/Car input:12-20V ===10A max., 200W max. AC socket output x2 (Inverter Mode): 100-120V~, | HINEN | hinen |
| ALM-600USCA | 60Hz, 6A max., Total 600W max. AC socket output x2 (Bypass Mode): 100-120V~, 60Hz, 6A max., Total 600W max. | BOLT | BOLT |
| XP2W600USCA | Cigarette lighter output/DC 5521 total: 126W max. Cigarette lighter output: 12.6V === 10A max. DC 5521 output x2:126V === 3A max. | xtorm | xtorm |
| PW601-600 | USB-C1/C2 output:5/9/12/15V==3A, 20V==5A, 100W max. USB-A1/A2 output: 5V==2,4A, 12W max. | WECON NEX | WECONNEX |

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5.2. CHANNEL LIST

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|
| 0 | 2402 | 11 | 2424 | 22 | 2446 | 33 | 2468 |
| 1 | 2404 | 12 | 2426 | 23 | 2448 | 34 | 2470 |
| 2 | 2406 | 13 | 2428 | 24 | 2450 | 35 | 2472 |
| 3 | 2408 | 14 | 2430 | 25 | 2452 | 36 | 2474 |
| 4 | 2410 | 15 | 2432 | 26 | 2454 | 37 | 2476 |
| 5 | 2412 | 16 | 2434 | 27 | 2456 | 38 | 2478 |
| 6 | 2414 | 17 | 2436 | 28 | 2458 | 39 | 2480 |
| 7 | 2416 | 18 | 2438 | 29 | 2460 | / | / |
| 8 | 2418 | 19 | 2440 | 30 | 2462 | / | / |
| 9 | 2420 | 20 | 2442 | 31 | 2464 | / | / |
| 10 | 2422 | 21 | 2444 | 32 | 2468 | / | / |

5.3. MAXIMUM PEAK EIRP

| Test Mode | Frequency (MHz) | Channel Number | Maximum Peak Output Power (dBm) | Maximum EIRP (dBm) |
|-----------|--------------------|----------------|---------------------------------------|--------------------------|
| LE 1M | 2402 ~ 2480 | 0-39[40] | 1.54 | 3.74 |

5.4. TEST CHANNEL CONFIGURATION

| Test Mode | Test Channel | Frequency |
|-----------|---|------------------------------|
| LE 1M | CH 0(Low Channel), CH 19(MID Channel), CH 39(High Channel) | 2402 MHz, 2440 MHz, 2480 MHz |

5.5. THE WORSE CASE POWER SETTING PARAMETER

| The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band | | | | | |
|--|-------------------|-------------------------------|-------|-------|--|
| Test Softwar | e Version | Wifi Test Tool v1.6.0 release | | | |
| Modulation | Transmit | Test Software setting value | | | |
| Type | Antenna Number | CH 0 | CH 19 | CH 39 | |
| GFSK(1Mbps) | 1 | 1 1 1 | | | |

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5.6. DESCRIPTION OF AVAILABLE ANTENNAS

| Antenna | Frequency (MHz) | Antenna Type | MAX Antenna Gain (dBi) |
|---------|-----------------|--------------|------------------------|
| 1 | 2402-2480 | PCB Antenna | 2.2 |

| Test Mode | Transmit and Receive Mode | Description |
|-----------|---------------------------|--|
| LE 1M | ⊠1TX, 1RX | Antenna 1 can be used as transmitting/receiving antenna. |
| Note: | | |

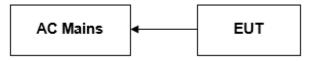
5.7. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit

| Equipment | Manufacturer | Model No. |
|------------------------|-----------------|----------------|
| Portable Power Station | CE LINK LIMITED | SR0KW6L-SG1-US |
| PC | Lenovo | T14 |

5.8. SETUP DIAGRAM

AC conducted emission



Radiated Emission:



RF conducted:



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6. MEASURING EQUIPMENT AND SOFTWARE USED

| Test Equipment of Conducted RF | | | | | |
|---|--------------------|-------------------------|-------------|------------|------------|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Due Date |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 102257 | 2023/09/18 | 2024/09/17 |
| Spectrum Analyzer | KEYSIGHT | N9020A | MY51285127 | 2023/09/18 | 2024/09/17 |
| EXG Analog Signal Generator | KEYSIGHT | N5173B | MY61253075 | 2023/09/18 | 2024/09/17 |
| Vector Signal Generator | Rohde & Schwarz | SMM100A | 101899 | 2023/09/18 | 2024/09/17 |
| RF Control box | MWRF-test | MW100-RFCB | MW220926GTG | 2023/09/18 | 2024/09/17 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW270 | 102792 | 2023/09/18 | 2024/09/17 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW500 | 103235 | 2023/09/18 | 2024/09/17 |
| temperature humidity chamber | Espec | SH-241 | SH-241-2014 | 2023/09/18 | 2024/09/17 |
| RF Test Software | MWRF-test | MTS8310E (Ver. V2/0) | N/A | N/A | N/A |

| Test Equipment of Radiated emissions below 1GHz | | | | | |
|---|--------------------|-----------------------------|------------|------------|------------|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Due Date |
| 3m Semi-anechoic Chamber | ETS | 9m*6m*6m | Q2146 | 2022/08/30 | 2025/08/29 |
| EMI Test Receiver | Rohde & Schwarz | ESCI3 | 101409 | 2023/09/18 | 2024/09/17 |
| Spectrum Analyzer | KEYSIGHT | N9020A | MY51283932 | 2023/09/18 | 2024/09/17 |
| Pre-Amplifier | HzEMC | HPA-9K0130 | HYPA21001 | 2023/09/18 | 2024/09/17 |
| Biconilog Antenna | Schwarzbeck | VULB 9168 | 01315 | 2022/10/10 | 2025/10/09 |
| Biconilog Antenna | ETS | 3142E | 00243646 | 2022/03/23 | 2025/03/22 |
| Loop Antenna | ETS | 6502 | 243668 | 2022/03/30 | 2025/03/29 |
| Test Software | Farad | EZ-EMC (Ver.FA- 03A2 RE) | N/A | N/A | N/A |

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| Test Equipment of Radiated emissions above 1GHz | | | | | | |
|---|--------------------|------------------------------|------------|------------|------------|--|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Due Date | |
| 3m Semi-anechoic Chamber | ETS | 9m*6m*6m | Q2149 | 2022/08/30 | 2025/08/29 | |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 101413 | 2023/09/18 | 2024/09/17 | |
| Spectrum Analyzer | KEYSIGHT | N9020A | MY51283932 | 2023/09/18 | 2024/09/17 | |
| Pre-Amplifier | A-INFO | HPA-1G1850 | HYPA21003 | 2023/09/18 | 2024/09/17 | |
| Horn antenna | A-INFO | 3117 | 246069 | 2022/03/11 | 2025/03/10 | |
| Pre-Amplifier | ZKJC | HPA-184057 | HYPA21004 | 2023/09/18 | 2024/09/17 | |
| Horn antenna | ZKJC | 3116C | 246265 | 2022/03/29 | 2025/03/28 | |
| Test Software | Farad | EZ-EMC (Ver.FA- 03A2 RE+) | N/A | N/A | N/A | |

| Test Equipment of Conducted emissions | | | | | | |
|---------------------------------------|--------------------|------------------------------------|------------|------------|------------|--|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Due Date | |
| Shielded Room | CHENG YU | 8m*5m*4m | N/A | 2022/10/29 | 2025/10/28 | |
| EMI Test Receiver | Rohde & Schwarz | ESR3 | 102647 | 2023/09/18 | 2024/09/17 | |
| LISN/AMN | Rohde & Schwarz | ENV216 | 102843 | 2023/09/18 | 2024/09/17 | |
| NNLK 8129 RC | Schwarzbeck | NNLK 8129 RC | 5046 | 2023/09/18 | 2024/09/17 | |
| Test Software | Farad | EZ-EMC (Ver. EMC-con-3A1 1+) | N/A | N/A | N/A | |

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7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

| CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2 | | | | | |
|--|------------------------------|------------------|-------------|--|--|
| Section Test Item Limit Frequency Range (MHz) | | | | | |
| CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d) | Peak Conduct Output Power | 1 watt or 30 dBm | 2400-2483.5 | | |

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST ENVIRONMENT

| Temperature | 24 ℃ | Relative Humidity | 55% |
|---------------------|-------------|-------------------|-----|
| Atmosphere Pressure | 101kPa | | |

TEST RESULTS

Please refer to section "Test Data" - Appendix A

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7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

| CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2 | | | | | | |
|--|----------------------------|------------------------------|--------------------------|--|--|--|
| Section | Test Item | Limit | Frequency Range (MHz) | | | |
| CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a) | 6 dB Bandwidth | ≥ 500 kHz | 2400-2483.5 | | | |
| ISED RSS-Gen Clause 6.7 | 99 % Occupied Bandwidth | For reporting purposes only. | 2400-2483.5 | | | |

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

| Center Frequency | The center frequency of the channel under test |
|------------------|--|
| Frequency Span | For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW |
| Detector | Peak |
| RBW | For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth |
| VBW | For 6 dB Bandwidth: ≥3 × RBW For 99 % Occupied Bandwidth: ≥3 × RBW |
| Trace | Max hold |
| Sweep | Auto couple |

- a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST ENVIRONMENT

| Temperature | 24℃ | Relative Humidity | 55% |
|---------------------|--------|-------------------|-----|
| Atmosphere Pressure | 101kPa | | |

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TEST RESULTS

Please refer to section "Test Data" - Appendix A

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7.3. POWER SPECTRAL DENSITY

LIMITS

| CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2 | | | |
|--|------------------------|----------------------------|-------------|
| Section Test Item Limit Frequency Range (MHz) | | | |
| CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b) | Power Spectral Density | 8 dBm in any 3 kHz band | 2400-2483.5 |

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.

Connect the EUT to the spectrum analyser and use the following settings:

| Center Frequency | The center frequency of the channel under test |
|------------------|--|
| Detector | PEAK |
| RBW | 3 kHz ≤ RBW ≤ 100 kHz |
| VBW | ≥3 × RBW |
| Span | 1.5 x DTS bandwidth |
| Trace | Max hold |
| Sweep time | Auto couple |

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST ENVIRONMENT

| Temperature | 24 ℃ | Relative Humidity | 55% |
|---------------------|-------------|-------------------|-----|
| Atmosphere Pressure | 101kPa | | |

TEST RESULTS

Please refer to section "Test Data" - Appendix A

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7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

| CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2 | | | |
|--|---|---|--|
| Section Test Item Limit | | | |
| CFR 47 FCC §15.247 (d) ISED RSS-247 5.5 | Conducted Bandedge and Spurious Emissions | at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power | |

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

| Center Frequency | The center frequency of the channel under test | |
|------------------|--|--|
| Detector | Peak | |
| RBW | 100 kHz | |
| VBW | ≥3 × RBW | |
| Span | 1.5 x DTS bandwidth | |
| Trace | Max hold | |
| Sweep time | Auto couple. | |

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Change the settings for emission level measurement:

| Span | Set the center frequency and span to encompass frequency range to be measured |
|--------------------|---|
| Detector | Peak |
| RBW | 100 kHz |
| VBW | ≥3 × RBW |
| measurement points | ≥span/RBW |
| Trace | Max hold |
| Sweep time | Auto couple. |

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST ENVIRONMENT

| Temperature | 24 ℃ | Relative Humidity | 55% |
|---------------------|-------------|-------------------|-----|
| Atmosphere Pressure | 101kPa | | |

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TEST RESULTS

Please refer to section "Test Data" - Appendix A

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7.5. DUTY CYCLE

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST ENVIRONMENT

| Temperature | 24 ℃ | Relative Humidity | 55% |
|---------------------|-------------|-------------------|-----|
| Atmosphere Pressure | 101kPa | | |

TEST RESULTS

Please refer to section "Test Data" - Appendix A

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8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

| Emissions radiated outside of the specified frequency bands above 30 MHz | | | |
|--|---------------------------------------|-------------------------|---------|
| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Stren (dBuV/m) | |
| | | Quasi-I | Peak |
| 30 - 88 | 100 | 40 | |
| 88 - 216 | 150 | 43. | 5 |
| 216 - 960 | 200 | 46 | |
| Above 960 | 500 | 54 | |
| Above 1000 | 500 | Peak | Average |
| | | 74 | 54 |

| FCC Emissions radiated outside of the specified frequency bands below 30 MHz | | | |
|---|--------------|-----|--|
| Frequency (MHz) Field strength (microvolts/meter) Measurement distance (meters) | | | |
| 0.009-0.490 | 2400/F(kHz) | 300 | |
| 0.490-1.705 | 24000/F(kHz) | 30 | |
| 1.705-30.0 | 30 | 30 | |

ISED General field strength limits at frequencies below 30 MHz

| Table 6 – General field strength limits at frequencies below 30 MHz | | | | | | |
|---|--|--------------------------|--|--|--|--|
| Frequency | Magnetic field strength (H-Field) (μA/m) | Measurement distance (m) | | | | |
| 9 - 490 kHz ^{Note 1} | 6.37/F (F in kHz) | 300 | | | | |
| 490 - 1705 kHz | 63.7/F (F in kHz) | 30 | | | | |
| 1.705 - 30 MHz | 0.08 | 30 | | | | |

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

| MHz | MHz | GHz |
|---------------------------|--|------------------------------|
| 0.090 - 0.110 | 149.9 - 150.05 | 9.0 - 9.2 |
| 0.495 - 0.505 | 158.52475 - 156.52525 | 9.3 - 9.5 |
| 2.1735 - 2.1905 | 156.7 - 156.9 | 10.6 - 12.7 |
| 3.020 - 3.026 | 162.0125 - 167.17 | 13.25 - 13.4 |
| 4.125 - 4.128 | 167.72 - 173.2 | 14.47 - 14.5 |
| 4.17725 - 4.17775 | 240 – 285 | 15.35 - 16.2 |
| 4.20725 - 4.20775 | 322 - 335.4 | 17.7 - 21.4 |
| 5.677 - 5.683 | 399.9 - 410 | 22.01 - 23.12 |
| 6.215 - 6.218 | 608 - 614 | 23.6 - 24.0 |
| 6.26775 - 6.26825 | 960 - 1427 | 31.2 - 31.8 |
| 6.31175 - 6.31225 | 1435 - 1626.5 | 36.43 - 36.5 |
| 8.291 - 8.294 | 1645.5 - 1646.5 | Above 38.6 |
| 8.362 - 8.366 | 1680 - 1710 | |
| 8.37625 - 8.38675 | 1718.8 - 1722.2 | |
| 8.41425 - 8.41475 | 2200 - 2300 | |
| 12.29 - 12.293 | 2310 - 2390 | |
| 12.51975 - 12.52025 | 2483.5 - 2500 | |
| 12.57675 - 12.57725 | 2655 - 2900 | |
| 13.36 - 13.41 | 3260 - 3267 | |
| 16.42 - 16.423 | 3332 - 3339 | |
| 16.69475 - 16.69525 | 3345.8 - 3358 | |
| 16.80425 - 16.80475 | 3500 - 4400 | |
| 25.5 - 25.67 | 4500 - 5150 | |
| 37.5 - 38.25 | 5350 - 5480 | |
| 73 - 74.6 | 7250 - 7750 | |
| 74.8 - 75.2 | 8025 - 8500 | |
| 108 – 138 | | |
| loto 4. Cartain fragues h | ds listed in table 7 and in bands above 38.6 | Olla are decimated for lices |

FCC Restricted bands of operation refer to FCC §15.205 (a):

| MHz | MHz | MHz | GHz |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| ¹ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (²) |
| 13.36-13.41 | | | |

Note:1. Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. 2. Above 38.6c

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TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

| RBW | 200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz) |
|-------|--|
| VBW | 200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz) |
| Sweep | Auto |

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then 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. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except 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.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. 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 and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
- 8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

| RBW | 120 kHz |
|-------|---------|
| VBW | 300 kHz |
| Sweep | Auto |

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| Detector | Peak/QP |
|----------|----------|
| Trace | Max hold |

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
- 2. 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. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. 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.

Above 1G

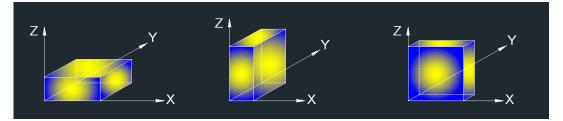
The setting of the spectrum analyser

| RBW | 1 MHz |
|----------|--------------------------------|
| VBW | PEAK: 3 MHz AVG: see note 6 |
| Sweep | Auto |
| Detector | Peak |
| Trace | Max hold |

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
- 2. 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. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5 m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

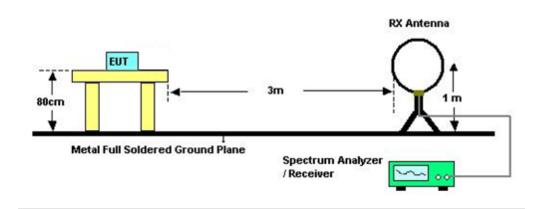
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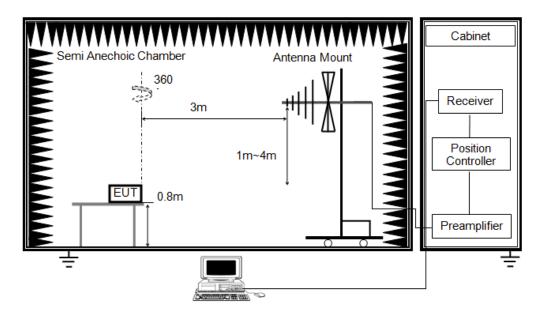
X axis, Y axis, Z axis positions:



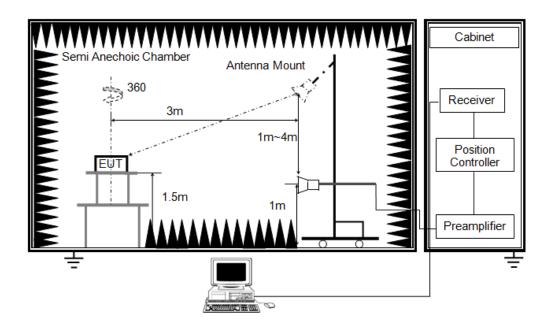
Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST SETUP





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TEST ENVIRONMENT

| Temperature | 23 ℃ | Relative Humidity | 56% |
|---------------------|-------------|-------------------|-----|
| Atmosphere Pressure | 101kPa | | |

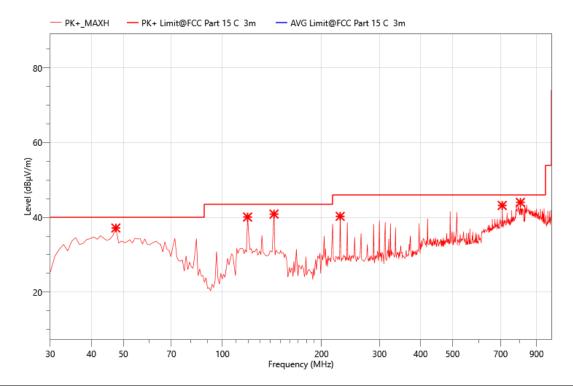
TEST RESULTS

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Radiated Spurious Emission:

The data of the mode (2402MHz) are recorded in the following pages.

The worst result as bellow:



Site: LAB Antenna: Temperature(C):23(C)
Horizontal

Test Time:

Limit: FCC Part 15 C 3m Radiation(QP)

EUT: Portable Power Station M/N.: SR0KW6L-SG1-US

Mode: 2402MHz Note:

KW6L-SG1-USPower Rating:MHzTest Engineer:

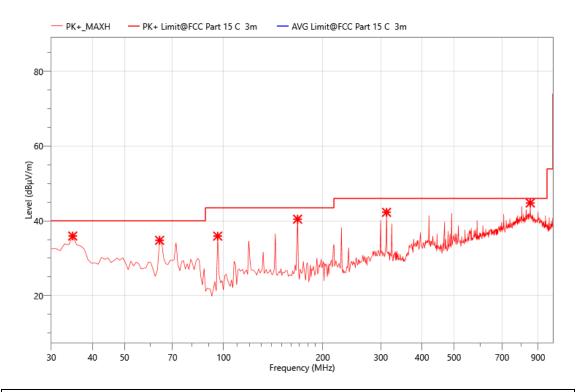
| No. | Freq. (MHz) | Reading (dBµV) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. | Corr. (dB) |
|-----|----------------|-------------------|-------------------|-------------------|----------------|------|------|---------------|
| 1 | 47.460 | 41.17 | 37.16 | 40.00 | 2.84 | PK+ | Н | -4.01 |
| 2 | 119.240 | 45.96 | 40.09 | 43.50 | 3.41 | PK+ | Н | -5.87 |
| 3 | 143.490 | 46.52 | 40.87 | 43.50 | 2.63 | PK+ | Н | -5.65 |
| 4 | 227.880 | 44.45 | 40.27 | 46.00 | 5.73 | PK+ | Н | -4.18 |
| 5 | 708.030 | 33.01 | 43.18 | 46.00 | 2.82 | PK+ | Н | 10.17 |
| 6 | 804.060 | 31.22 | 44.00 | 46.00 | 2.00 | PK+ | Н | 12.78 |

Humidity(%):56%

2023-09-08 AC 120V

Luffy

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Site: LAB Antenna: Vertical Temperature(C):23(C)

Limit: FCC Part 15 C 3m Radiation(QP) Humidity(%):56%
EUT: Portable Power Station Test Time: 2023-09-08
M/N.: SR0KW6L-SG1-US Power Rating: AC 120V

Mode: 2402MHz Test Engineer: Luffy
Note:

| No. | Freq. (MHz) | Reading (dBµV) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. | Corr. (dB) |
|-----|----------------|-------------------|-------------------|-------------------|----------------|------|------|---------------|
| 1 | 34.850 | 41.43 | 35.95 | 40.00 | 4.05 | PK+ | V | -5.48 |
| 2 | 63.950 | 38.38 | 34.80 | 40.00 | 5.20 | PK+ | V | -3.58 |
| 3 | 95.960 | 42.11 | 35.92 | 43.50 | 7.58 | PK+ | V | -6.19 |
| 4 | 167.740 | 45.79 | 40.46 | 43.50 | 3.04 | PK+ | V | -5.33 |
| 5 | 312.270 | 42.78 | 42.28 | 46.00 | 3.72 | PK+ | V | -0.5 |
| 6 | 852.560 | 31.38 | 44.78 | 46.00 | 1.22 | PK+ | V | 13.4 |

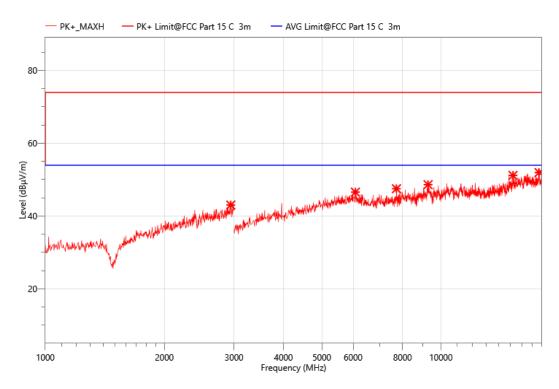
Note: Result Level = Read Level+ Antenna Factor+ Cable Loss- Amp. Factor

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Above 1000MHz~10th Harmonics:

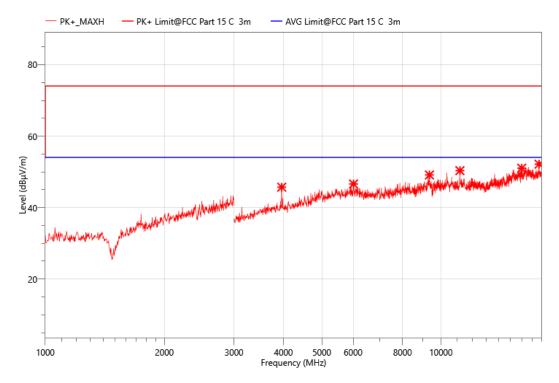
Temperature : 24° C Test Date : 2023-09-08

Humidity: 55 % Test By: Vier Test mode: BLE Frequency(MHz): 2402



| No. | Freq. (MHz) | Reading (dBµV) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. | Corr. (dB) |
|-----|----------------|-------------------|-------------------|-------------------|----------------|------|------|---------------|
| 1 | 2944.000 | 52.93 | 43.03 | 74.00 | 30.97 | PK+ | Н | -9.9 |
| 2 | 6080.000 | 51.72 | 46.57 | 74.00 | 27.43 | PK+ | Н | -5.15 |
| 3 | 7720.000 | 50.29 | 47.51 | 74.00 | 26.49 | PK+ | Н | -2.78 |
| 4 | 9280.000 | 49.21 | 48.61 | 74.00 | 25.39 | PK+ | Н | -0.6 |
| 5 | 15215.000 | 48.45 | 51.17 | 74.00 | 22.83 | PK+ | Н | 2.72 |
| 6 | 17700.000 | 47.20 | 51.95 | 74.00 | 22.05 | PK+ | Н | 4.75 |

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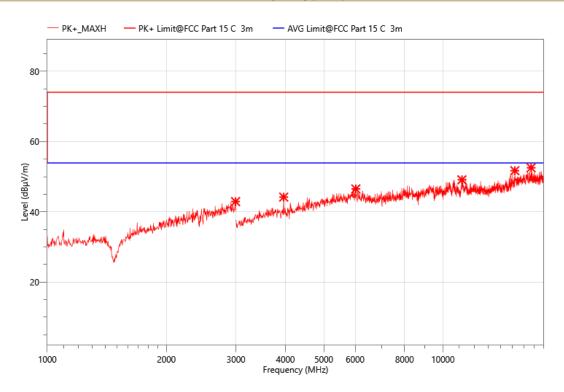


| No. | Freq. (MHz) | Reading (dBµV) | Meas. (dΒμV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. | Corr. (dB) |
|-----|----------------|-------------------|-------------------|-------------------|----------------|------|------|---------------|
| 1 | 3960.000 | 58.50 | 45.73 | 74.00 | 28.27 | PK+ | V | -12.77 |
| 2 | 6015.000 | 52.20 | 46.63 | 74.00 | 27.37 | PK+ | V | -5.57 |
| 3 | 9355.000 | 50.19 | 49.15 | 74.00 | 24.85 | PK+ | V | -1.04 |
| 4 | 11170.000 | 49.57 | 50.36 | 74.00 | 23.64 | PK+ | V | 0.79 |
| 5 | 16010.000 | 48.15 | 51.05 | 74.00 | 22.95 | PK+ | V | 2.9 |
| 6 | 17705.000 | 47.50 | 52.16 | 74.00 | 21.84 | PK+ | V | 4.66 |

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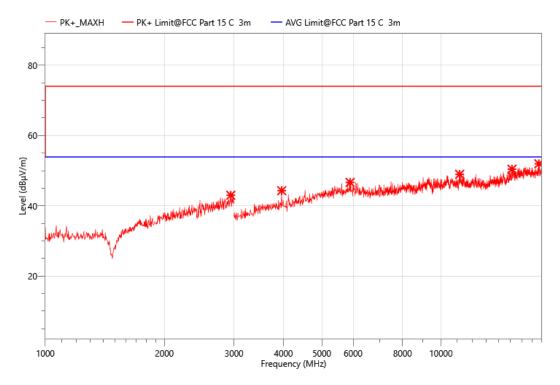
Temperature : 24° Test Date : 2023-09-08

Humidity: 55 % Test By: Vier Test mode: BLE Frequency(MHz): 2440



| No. | Freq. (MHz) | Reading (dBµV) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. | Corr. (dB) |
|-----|----------------|-------------------|-------------------|-------------------|----------------|------|------|---------------|
| 1 | 2992.000 | 52.23 | 42.91 | 74.00 | 31.09 | PK+ | Н | -9.32 |
| 2 | 3960.000 | 56.95 | 44.18 | 74.00 | 29.82 | PK+ | Н | -12.77 |
| 3 | 6025.000 | 51.93 | 46.51 | 74.00 | 27.49 | PK+ | Н | -5.42 |
| 4 | 11170.000 | 48.31 | 49.10 | 74.00 | 24.90 | PK+ | Н | 0.79 |
| 5 | 15200.000 | 49.09 | 51.70 | 74.00 | 22.30 | PK+ | Н | 2.61 |
| 6 | 16710.000 | 48.06 | 52.53 | 74.00 | 21.47 | PK+ | Н | 4.47 |

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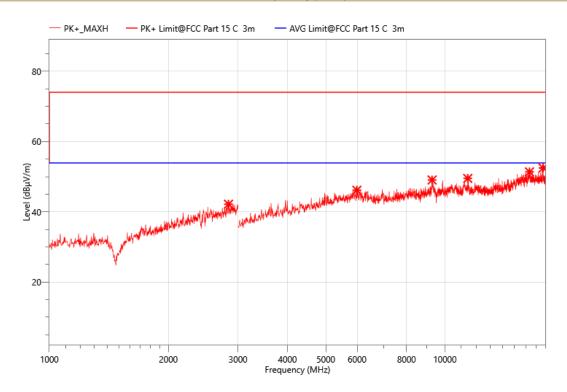


| No. | Freq. (MHz) | Reading (dBµV) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. | Corr. (dB) |
|-----|----------------|-------------------|-------------------|-------------------|----------------|------|------|---------------|
| 1 | 2944.000 | 52.91 | 43.01 | 74.00 | 30.99 | PK+ | V | -9.9 |
| 2 | 3960.000 | 57.08 | 44.31 | 74.00 | 29.69 | PK+ | V | -12.77 |
| 3 | 5895.000 | 52.13 | 46.66 | 74.00 | 27.34 | PK+ | V | -5.47 |
| 4 | 11155.000 | 48.06 | 48.97 | 74.00 | 25.03 | PK+ | V | 0.91 |
| 5 | 15125.000 | 48.07 | 50.42 | 74.00 | 23.58 | PK+ | V | 2.35 |
| 6 | 17690.000 | 47.06 | 51.97 | 74.00 | 22.03 | PK+ | V | 4.91 |

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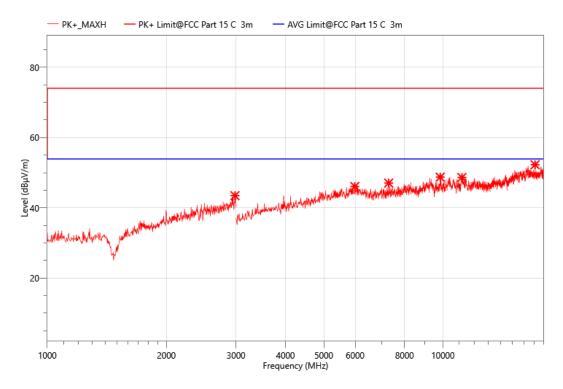
Temperature : 24° Test Date : 2023-09-08

Humidity: 55 % Test By: Vier
Test mode: BLE Frequency(MHz): 2480



| No. | Freq. (MHz) | Reading (dBµV) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. | Corr. (dB) |
|-----|----------------|-------------------|-------------------|-------------------|----------------|------|------|---------------|
| 1 | 2838.000 | 52.42 | 42.16 | 74.00 | 31.84 | PK+ | Н | -10.26 |
| 2 | 5990.000 | 51.56 | 46.15 | 74.00 | 27.85 | PK+ | Н | -5.41 |
| 3 | 9280.000 | 49.66 | 49.06 | 74.00 | 24.94 | PK+ | Н | -0.6 |
| 4 | 11425.000 | 49.06 | 49.51 | 74.00 | 24.49 | PK+ | Н | 0.45 |
| 5 | 16360.000 | 47.74 | 51.36 | 74.00 | 22.64 | PK+ | Η | 3.62 |
| 6 | 17705.000 | 47.80 | 52.46 | 74.00 | 21.54 | PK+ | Н | 4.66 |

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| No. | Freq. (MHz) | Reading (dBµV) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. | Corr. (dB) |
|-----|----------------|-------------------|-------------------|-------------------|----------------|------|------|---------------|
| 1 | 2982.000 | 52.77 | 43.45 | 74.00 | 30.55 | PK+ | ٧ | -9.32 |
| 2 | 5990.000 | 51.48 | 46.07 | 74.00 | 27.93 | PK+ | V | -5.41 |
| 3 | 7295.000 | 49.95 | 47.04 | 74.00 | 26.96 | PK+ | V | -2.91 |
| 4 | 9845.000 | 50.38 | 48.72 | 74.00 | 25.28 | PK+ | V | -1.66 |
| 5 | 11170.000 | 47.84 | 48.63 | 74.00 | 25.37 | PK+ | V | 0.79 |
| 6 | 17100.000 | 47.95 | 52.25 | 74.00 | 21.75 | PK+ | V | 4.3 |

Other harmonics emissions are lower than 20dB below the allowable limit.

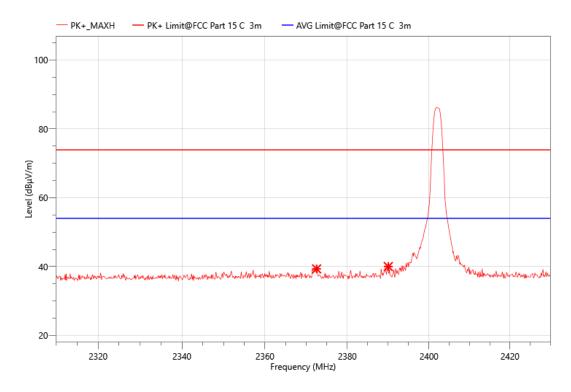
Note: (1) All Readings are Peak Value.

- (2) Emission Level= Reading Level+ Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) Measuring frequencies from 1GHz to 25GHz.

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Band edge:

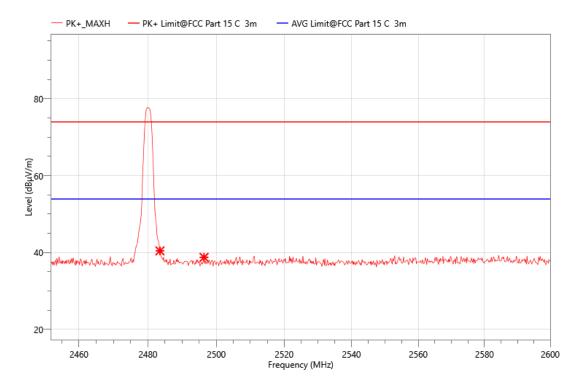
BLE 2402MHz



| | No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|---|-----|----------------|-------------------|---------------|-------------------|-------------------|----------------|------|------|
| Ī | 1 | 2372.520 | 60.07 | -20.74 | 39.33 | 74.00 | 34.67 | PK+ | Н |
| | 2 | 2390.000 | 60.75 | -20.73 | 40.02 | 74.00 | 33.98 | PK+ | Н |

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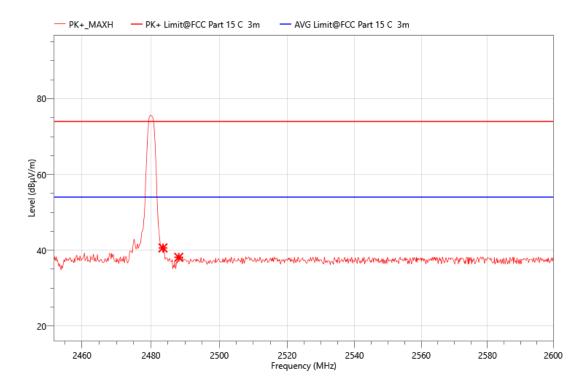
BLE 2402MHz



| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|----------------|-------------------|---------------|-------------------|-------------------|----------------|------|------|
| 1 | 2483.500 | 60.75 | -20.3 | 40.45 | 74.00 | 33.55 | PK+ | V |
| 2 | 2496.400 | 59.02 | -20.26 | 38.76 | 74.00 | 35.24 | PK+ | V |

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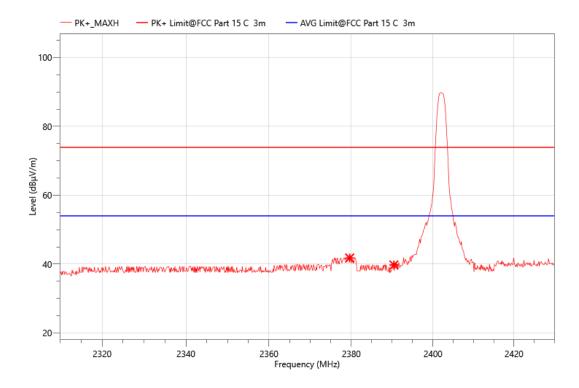
BLE 2480MHz



| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|----------------|-------------------|---------------|-------------------|-------------------|----------------|------|------|
| 1 | 2483.500 | 60.91 | -20.3 | 40.61 | 74.00 | 33.39 | PK+ | Н |
| 2 | 2488.112 | 58.41 | -20.28 | 38.13 | 74.00 | 35.87 | PK+ | Н |

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BLE 2480MHz



| | No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|---|-----|----------------|-------------------|---------------|-------------------|-------------------|----------------|------|------|
| Ī | 1 | 2379.600 | 62.51 | -20.75 | 41.76 | 74.00 | 32.24 | PK+ | V |
| | 2 | 2390.400 | 60.47 | -20.73 | 39.74 | 74.00 | 34.26 | PK+ | V |

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9. ANTENNA REQUIREMENT

REQUIREMENT

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and 15.247 and RSS-Gen issue 5 6.8.

FCC part 15C section 15.247 and RSS 247 requirements:

Systems operating in the 2402-2480MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

DESCRIPTION

Pass

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10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

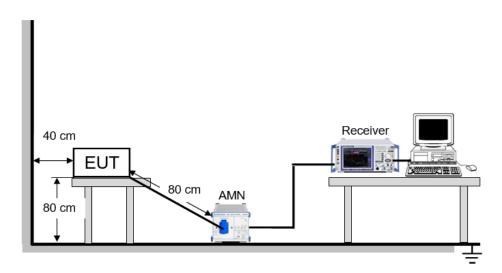
| FREQUENCY (MHz) | Quasi-peak | Average |
|-----------------|------------|-----------|
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * |
| 0.50 -5.0 | 56.00 | 46.00 |
| 5.0 -30.0 | 60.00 | 50.00 |

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP

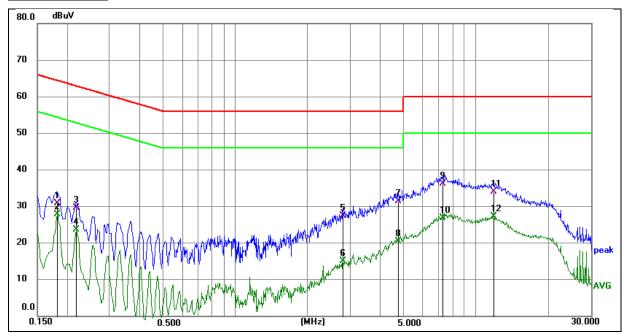


TEST ENVIRONMENT

| Temperature | 26℃ | Relative Humidity | 54.3% |
|---------------------|--------|-------------------|-------|
| Atmosphere Pressure | 101kPa | | |

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TEST RESULTS



Site:
Limit: FCC Part 15 B Conduction(QP)

EUT: Portable Power Station M/N.: SR0KW6L-SG1-US Mode: BLE 2402MHz

Mode: BLE 2402M Note: Phase:N Temperature(C):25(C)

Humidity(%):54%

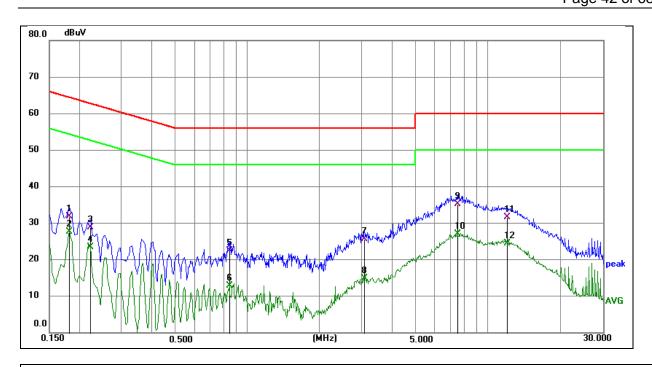
Test Time: 2023/9/6
Power Rating: AC 120V/60Hz

Test Engineer: Fink

| No. | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measure- ment(dBuV) | Limit (dBuV) | Margin (dB) | Detector | Comment |
|-----|--------------------|------------------------|----------------|------------------------|-----------------|----------------|----------|---------|
| 1 | 0.1815 | 20.88 | 9.92 | 30.80 | 64.42 | -33.62 | QP | |
| 2 | 0.1815 | 17.95 | 9.92 | 27.87 | 54.42 | -26.55 | AVG | |
| 3 | 0.2175 | 19.80 | 9.90 | 29.70 | 62.91 | -33.21 | QP | |
| 4 | 0.2175 | 13.81 | 9.90 | 23.71 | 52.91 | -29.20 | AVG | |
| 5 | 2.8005 | 17.32 | 10.08 | 27.40 | 56.00 | -28.60 | QP | |
| 6 | 2.8005 | 5.01 | 10.08 | 15.09 | 46.00 | -30.91 | AVG | |
| 7 | 4.7625 | 21.26 | 10.24 | 31.50 | 56.00 | -24.50 | QP | |
| 8 | 4.7625 | 10.27 | 10.24 | 20.51 | 46.00 | -25.49 | AVG | |
| 9 | 7.2690 | 25.59 | 10.61 | 36.20 | 60.00 | -23.80 | QP | |
| 10 | 7.2690 | 16.29 | 10.61 | 26.90 | 50.00 | -23.10 | AVG | |
| 11 | 11.8545 | 23.11 | 10.99 | 34.10 | 60.00 | -25.90 | QP | |
| 12 | 11.8545 | 16.20 | 10.99 | 27.19 | 50.00 | -22.81 | AVG | |

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

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Site:
Limit: FCC Part 15 B Conduction(QP)

EUT: Portable Power Station M/N.: SR0KW6L-SG1-US Mode: BLE 2402MHz

Note:

Phase:L1 Temperature(C):25(C)

Humidity(%):54%

Test Time: 2023/9/6
Power Rating: AC 120V/60Hz

Test Engineer: Fink

| No. | Frequency | Reading | Factor | Measure- | Limit | Margin | Detector | Comment |
|-----|-----------|-------------|--------|------------|--------|--------|----------|---------|
| | (MHz) | Level(dBuV) | (dB) | ment(dBuV) | (dBuV) | (dB) | | |
| 1 | 0.1814 | 21.88 | 9.92 | 31.80 | 64.42 | -32.62 | QP | |
| 2 | 0.1814 | 17.75 | 9.92 | 27.67 | 54.42 | -26.75 | AVG | |
| 3 | 0.2220 | 19.02 | 9.88 | 28.90 | 62.74 | -33.84 | QP | |
| 4 | 0.2220 | 13.48 | 9.88 | 23.36 | 52.74 | -29.38 | AVG | |
| 5 | 0.8430 | 12.40 | 10.10 | 22.50 | 56.00 | -33.50 | QP | |
| 6 | 0.8430 | 2.77 | 10.10 | 12.87 | 46.00 | -33.13 | AVG | |
| 7 | 3.0660 | 15.63 | 10.07 | 25.70 | 56.00 | -30.30 | QP | |
| 8 | 3.0660 | 4.85 | 10.07 | 14.92 | 46.00 | -31.08 | AVG | |
| 9 | 7.4580 | 24.57 | 10.63 | 35.20 | 60.00 | -24.80 | QP | |
| 10 | 7.4580 | 16.33 | 10.63 | 26.96 | 50.00 | -23.04 | AVG | |
| 11 | 12.0165 | 20.61 | 10.99 | 31.60 | 60.00 | -28.40 | QP | |
| 12 | 12.0165 | 13.46 | 10.99 | 24.45 | 50.00 | -25.55 | AVG | |

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

Note: 1. Result = Reading + Correct Factor.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

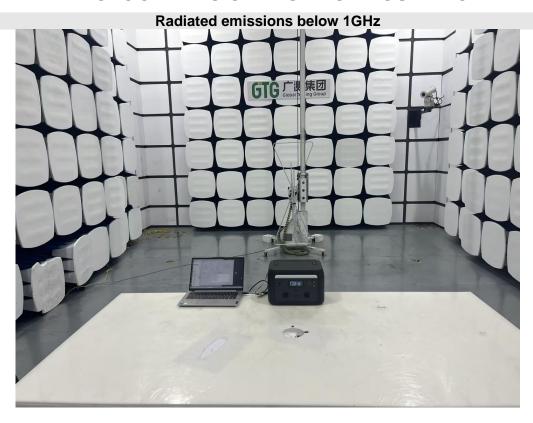
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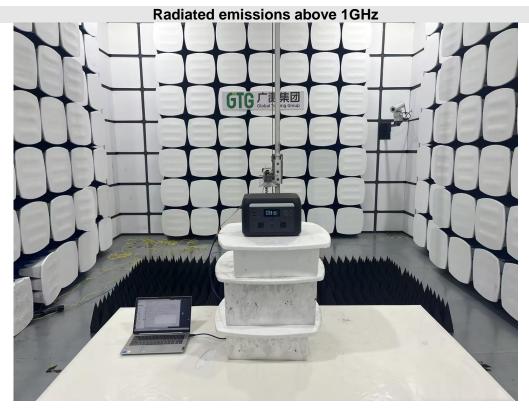
11. TEST DATA

Please refer to section "Test Data" - Appendix A

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APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION







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APPENDIX: PHOTOGRAPHS OF THE EUT

External photos



Model: SR0KW6L-SG1-US



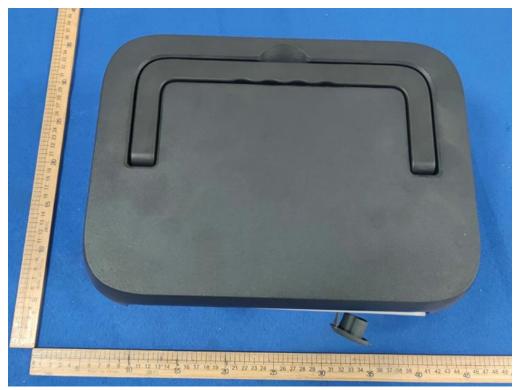
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Model: SR0KW6L-SG1-US



Model: SR0KW6L-SG1-US



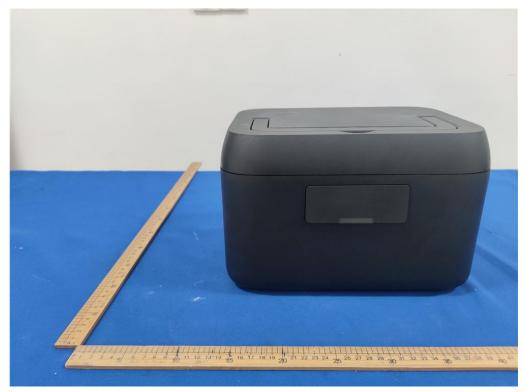
Model: SR0KW6L-SG1-US



Model: SR0KW6L-SG1-US



Model: PS600-US



Model: PS600-US



Model: PS600-US



Model: PS600-US



Model: PS600-US



Model: PS600-US



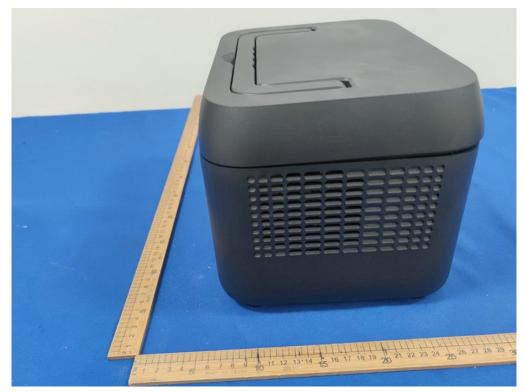
Model: ALM-600USCA



Model: ALM-600USCA



Model: ALM-600USCA



Model: ALM-600USCA



Model: ALM-600USCA



Model: ALM-600USCA



Model: XP2W600USCA



Model: XP2W600USCA



Model: XP2W600USCA



Model: XP2W600USCA



Model: XP2W600USCA



Model: XP2W600USCA



Model: PW601-600



Model: PW601-600



Model: PW601-600



Model: PW601-600



Model: PW601-600

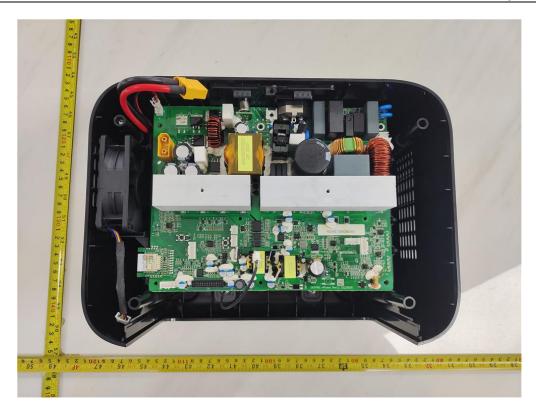


Model: PW601-600

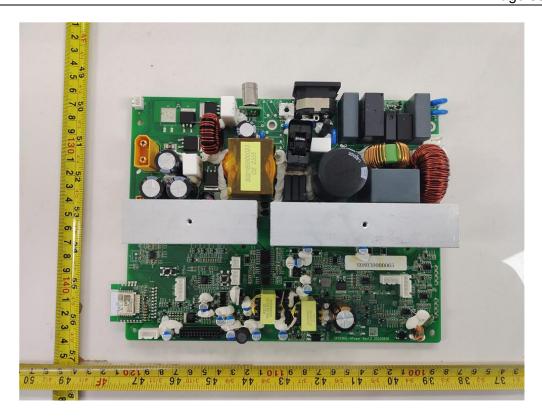




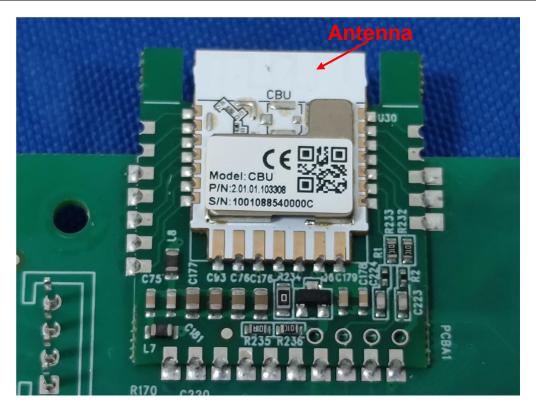


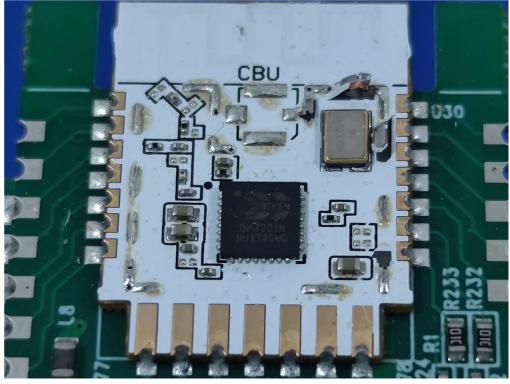


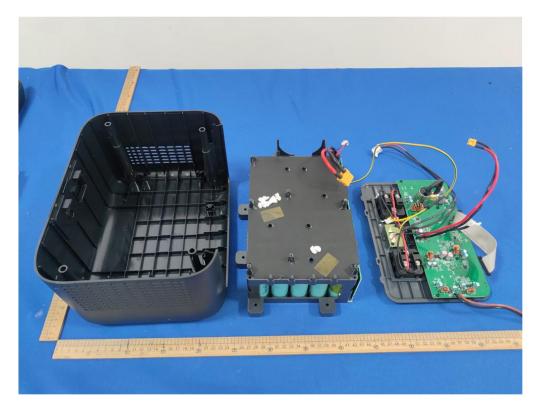


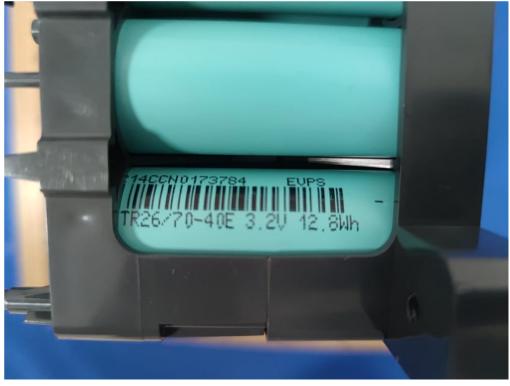


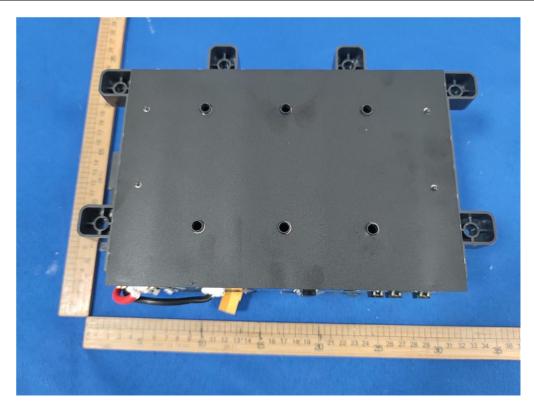


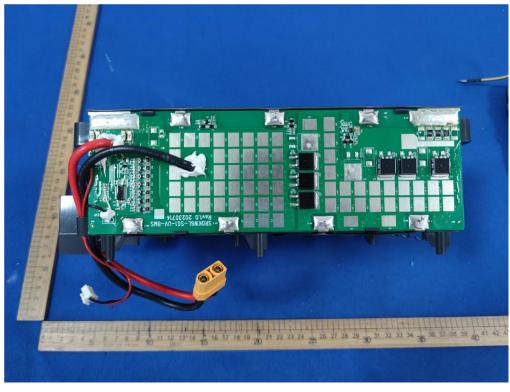


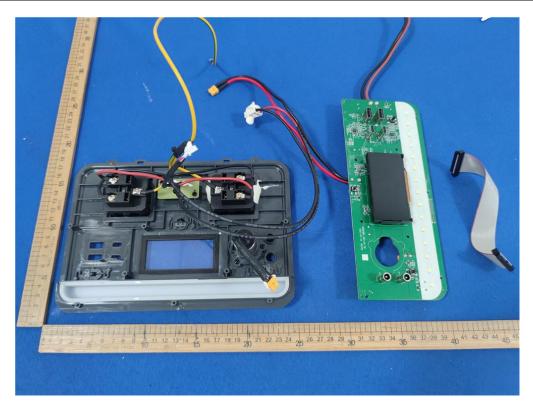


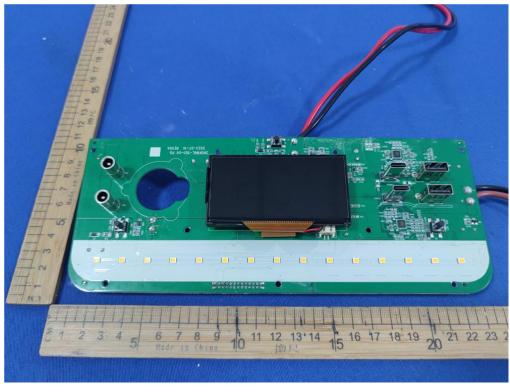


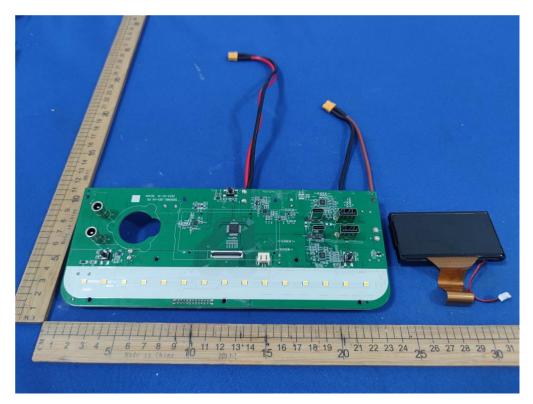


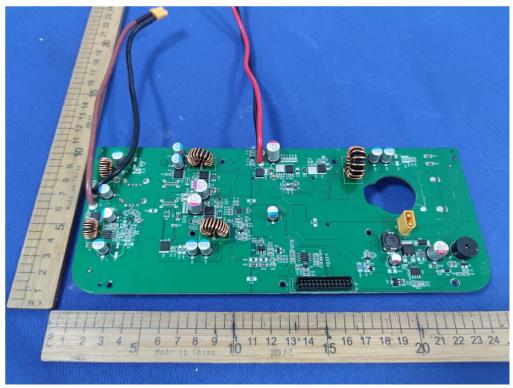












END OF REPORT