



TEST REPORT

No.24T04Z100387-002

for

TCL Communication Ltd.

Mobile Hot Spot

MW513U

FCC ID: 2ACCJB183

with

Hardware Version: 06

Software Version: MW513U_ZZ_02.00_06

Issued Date: 2024-03-08

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

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Ver.3.3.22



No.24T04Z100387-002

REPORT HISTORY

| Report Number | Revision | Description | Issue Date |
|----------------------|-----------------|--------------------|-------------------|
| 24T04Z100387-002 | Rev.0 | 1st edition | 2024-03-08 |

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Location 1: CTTL(Huayuan North Road)

Address: No. 52 Huayuan North Road, Haidian District, Beijing,
100191, P. R. China

Location 2: CTTL(Kangding)

Address: No.18A, Kangding Street, Beijing Economic-Technology
Development Area, Beijing, 100176, P. R. China

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2022-05-23

Testing End Date: 2024-03-07

1.5. Signature



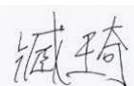
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2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

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Contact: Annie Jiang
Telephone: +86 755 3661 1621
Email: nianxiang.jiang@tcl.com

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

| | |
|-------------|-----------------|
| Description | Mobile Hot Spot |
| Model Name | MW513U |

Note: The EUT functions are described in Annex A of this test report. Specifications of the EUT were provided to fulfil the test. Samples undergoing test were selected by the client. Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL, Telecommunication Technology Labs, CAICT

3.2. Internal Identification of EUT

| EUT ID* | SN or IMEI | HW Version | SW Version | Date of receipt |
|----------------|-------------------|-------------------|--------------------|------------------------|
| EUT1 | 352950940201148 | 06 | MW513U_ZZ_02.00_06 | 2022-05-11 |
| EUT2 | 352950940208549 | 06 | MW513U_ZZ_02.00_06 | 2022-06-29 |
| EUT3 | 352950941178436 | 06 | MW513U_ZZ_02.00_06 | 2024-03-01 |

*EUT ID: is used to identify the test sample in the lab internally. The HW and SW version information were provided by the applicant.

3.3. Internal Identification of AE

| AE ID* | Description | Model | Manufacturer | Note |
|---------------|--------------------|--------------|---------------------|-------------|
| AE1 | Charger | QC13US | PUAN | --- |
| AE2 | Battery | TLi044A7 | veken | --- |
| AE3 | USB Cable | CDA0000196C1 | Juwei | --- |
| AE4 | USB Cable | CDA3122013C1 | Juwei CDA3122013C1 | 2024 added |

*AE ID: is used to identify the test sample in the lab internally.

3.4. EUT set-ups

| EUT set-up No. | Combination of EUT and AE | Remarks |
|-----------------------|----------------------------------|---------------------------------------|
| Set.1 | EUT1/2 + AE2 + AE3 + AE1 | Charger |
| Set.2 | EUT1/2 + AE2 + AE3 + PC | USB and LAN to PC |
| Set.3 | EUT1/2 + AE2 + AE3 + AE1 + PC | Charger, LAN to PC |
| Set.4 | EUT3 + AE2 + AE3 + AE1 | Charger |
| Set.5 | EUT3 + AE2 + AE3 + AE1 + PC | Charger with AE3 USB cable, LAN to PC |
| Set.6 | EUT3 + AE2 + AE4 + AE1 + PC | Charger with AE4 USB cable, LAN to PC |

4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters, referring to Annex A for detailed information, were supplied by the client or manufacturer, which is the basis of testing. CAICT is not responsible for the accuracy of customer supplied technical information that may affect the test results (for example, antenna gain and loss of customer supplied cable).

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

| Reference | Title | Version |
|------------------------|---|----------------|
| FCC Part 15, Subpart B | Radio frequency devices - Unintentional Radiators | 2023 |
| ANSI C63.4 | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | 2014 |

Note: The test methods have no deviation with standards.

5. Test Results

| Abbreviations used in this clause: | | |
|------------------------------------|----|---|
| Verdict Column | P | Pass |
| | F | Fail |
| | BR | Re-use test data from basic model report. |
| | NA | Not applicable |
| | NM | Not measured |

| Items | Test Name | Clause in FCC rules | Section in this report | Verdict | Test Location |
|-------|--------------------|---------------------|------------------------|---------|--------------------------|
| 1 | Radiated Emission | 15.109(a) | B.1 | P | CTTL(Huayuan North Road) |
| 2 | Conducted Emission | 15.107(a) | B.2 | P | CTTL(Huayuan North Road) |

Note: the test results of EUT1 and EUT2 were from report I22Z60940-EMC01. According to the declaration of client, the tests related to the change of EUT were performed on EUT3 with original charger, battery, cable AE3 and new added cable AE4.

6. Test Facilities Utilized

Test instruments list:

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration Period | Calibration Due date |
|-----|--------------------------------------|-----------|---------------|--------------|--------------------|----------------------|
| 1 | LISN | ENV216 | 101200 | R&S | 1 year | 2024-07-04 |
| 2 | Test Receiver | ESCI | 100344 | R&S | 1 year | 2024-03-20 |
| 3 | Universal Radio Communication Tester | CMW500 | 116588 | R&S | 1 year | 2022-12-20 |
| 4 | Test Receiver | ESW44 | 103023 | R&S | 1 year | 2022-10-28 |
| 5 | Test Receiver | ESW44 | 103015 | R&S | 1 year | 2023-01-23 |
| 6 | BiLog Antenna | VULB9163 | 483 | Schwarzbeck | 1 year | 2022-08-24 |
| 7 | BiLog Antenna | 9163 | 302 | ETS-Lindgren | 1 year | 2022-12-28 |
| 8 | Universal Radio Communication Tester | CMW500 | 150344 | R&S | 1 year | 2025-02-03 |
| 9 | Test Receiver | ESW44 | 103144 | R&S | 1 year | 2024-07-08 |
| 10 | BiLog Antenna | VULB9163 | 01223 | Schwarzbeck | 1 year | 2024-08-18 |
| 11 | EMI Antenna | 3115 | 6914 | ETS-Lindgren | 1 year | 2024-06-07 |
| 12 | PC With mouse and keyboard | M4000e-17 | M706GWXD | Lenovo | N/A | N/A |
| 13 | Printer | P1606dn | VNC3L52122 | HP | N/A | N/A |

Note: Equipment with No.3,4,5,6,7 were in calibration due dates when used for testing before 2022-07-15.

Test software list:

| Test Item | Test Software | Software Vendor |
|--------------------|---------------|-----------------|
| Radiated Emission | EMC32 | R&S |
| Conducted Emission | EMC32 | R&S |

Semi-anechoic chamber utilized did not exceed following limits along the testing:

| | |
|---|---|
| Temperature | Min. = 15 °C, Max. = 35 °C |
| Relative humidity | Min. = 15 %, Max. = 75 % |
| Shielding effectiveness | 0.014MHz-1MHz, >60dB; 1MHz - 1000MHz, >90dB. |
| Electrical insulation | > 2 MΩ |
| Ground system resistance | < 4 Ω |
| Normalised site attenuation (NSA) | < ±4 dB, 10 m distance |
| Site voltage standing-wave ratio (S_{VSWR}) | Between 0 and 6 dB, from 1GHz to 6GHz |

Shielded room utilized did not exceed following limits along the testing:

| | |
|--------------------------|---|
| Temperature | Min. = 15 °C, Max. = 35 °C |
| Relative humidity | Min. = 20 %, Max. = 75 % |
| Shielding effectiveness | 0.014MHz-1MHz, >60dB; 1MHz—1000MHz, >90dB. |
| Electrical insulation | > 2 M Ω |
| Ground system resistance | < 4 Ω |

7. Measurement Uncertainty

Where relevant, the following measurement uncertainty(worse case) levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Location 1: CTTL(huayuan North Road)

| Test item | Frequency ranges | Measurement uncertainty |
|--------------------|------------------|--------------------------------|
| Radiated Emission | 30MHz-1GHz | 5.15dB($k=2$) |
| | 1GHz-18GHz | 5.54dB($k=2$) |
| Conducted Emission | 150kHz-30MHz | AC Power Line: 3.08dB($k=2$) |

Location 2: CTTL(BDA)

| Test item | Frequency ranges | Measurement uncertainty |
|--------------------|------------------|--------------------------------|
| Radiated Emission | 30MHz-1GHz | 5.73dB($k=2$) |
| | 1GHz-18GHz | 5.58dB($k=2$) |
| Conducted Emission | 150kHz-30MHz | AC Power Line: 3.10dB($k=2$) |

ANNEX A: EUT parameters

| | | |
|---|---|--------------|
| Cellular Bands operate between 30MHz-960MHz | <input type="checkbox"/> GSM | Band |
| | <input type="checkbox"/> WCDMA | Band |
| | <input checked="" type="checkbox"/> LTE | Band 5/12/13 |
| | <input checked="" type="checkbox"/> 5G NR SA | Band 5 |
| Other FCC Part 15B related features | <input type="checkbox"/> FM <input type="checkbox"/> MP3 <input type="checkbox"/> Video <input type="checkbox"/> Camera <input checked="" type="checkbox"/> USB data/charging | |

ANNEX B: Detailed Test Results

B.1. Radiated Emission

Reference: FCC Part 15.109(a).

Method of measurement: The field strength of radiated emissions from the unintentional radiator at distances of 10 meters (for 30MHz-1GHz) and 3 meters (for above 1GHz) were tested. The test was in accordance with the procedures of ANSI C63.4 – 2014, section 8.3.

The EUT was placed on a non-conductive table. The measurement antenna was placed at the specified distance from the EUT. During the test, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

EUT operating mode: The EUT was operating in the USB data and/or charging mode. During the test, the EUT was connected to a charger in the case of charging mode. The EUT was tested while operating in licensed band Rx mode. All licensed band receivers that tune in the range of 30MHz-960MHz, as listed in Annex A, were investigated. Only the worst case emissions are reported. All equipment was placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions.

Measurement limit:

| Frequency range (MHz) | Field strength limit (µV/m) | | |
|-----------------------|-----------------------------|---------|------|
| | Quasi-peak | Average | Peak |
| 30-88 | 100 | | |
| 88-216 | 150 | | |
| 216-960 | 200 | | |
| 960-1000 | 500 | | |
| >1000 | | 500 | 5000 |

Note: the above limit is for 3 meters test distance. The limits for 10 meters distance is got by converting: $\text{Limit}(10\text{m}) = \text{Limit}(3\text{m}) + 20[\log(3/10)]$, which is according to FCC 15.109(g)(2)

Test settings:

| Frequency range (MHz) | RBW/VBW | Sweep Time (s) | Detector |
|-----------------------|-----------------------|----------------|-----------------|
| 30-1000 | 120kHz (IF Bandwidth) | 5 | Peak/Quasi-peak |
| Above 1000 | 1MHz/3MHz | 15 | Peak, Average |

Measurement results:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss". It includes the antenna factor of receive antenna and the path loss.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{\text{Rpl}} = P_{\text{Mea}} + G_A + G_{\text{PL}}$$

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Note: The measurement results showed as followed are worst cases, and the combinations of different batteries, cables and headsets were considered if applicable.

EUT1 Charger and LTE Band 12 idle mode, Set.1

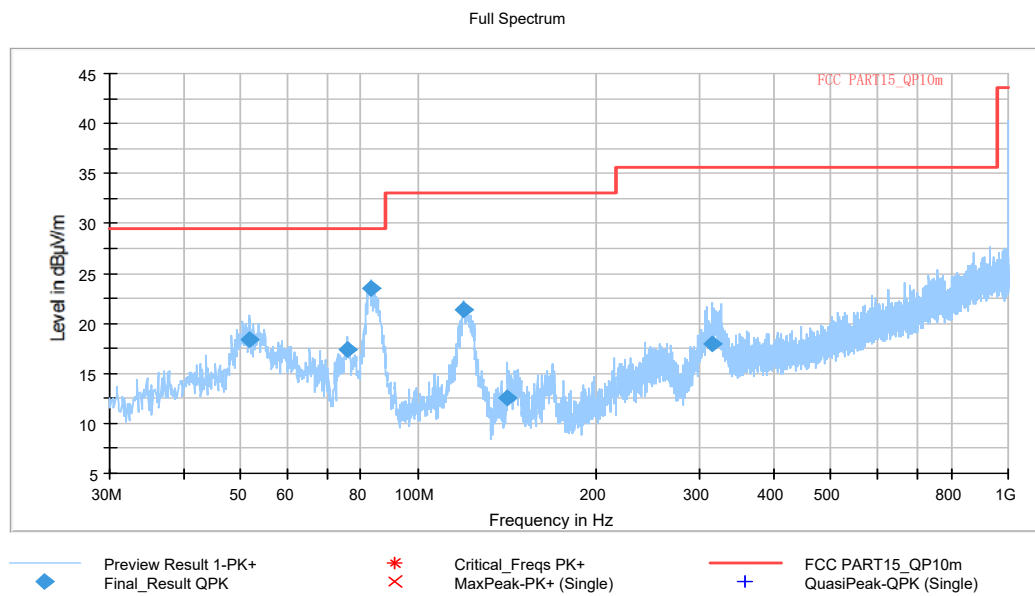


Figure B.1 Radiated Emission from 30MHz to 1GHz

QP detector

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|
| 51.728000 | 18.35 | 29.54 | 11.19 | 2000.0 | 120.000 | 100.0 | V | 226.0 |
| 75.881000 | 17.43 | 29.54 | 12.11 | 2000.0 | 120.000 | 175.0 | V | 315.0 |
| 82.962000 | 23.52 | 29.54 | 6.02 | 2000.0 | 120.000 | 186.0 | V | 291.0 |
| 119.046000 | 21.39 | 33.06 | 11.67 | 2000.0 | 120.000 | 112.0 | V | 45.0 |
| 141.647000 | 12.53 | 33.06 | 20.53 | 2000.0 | 120.000 | 100.0 | V | 46.0 |
| 315.665000 | 17.98 | 35.56 | 17.58 | 2000.0 | 120.000 | 325.0 | H | 72.0 |

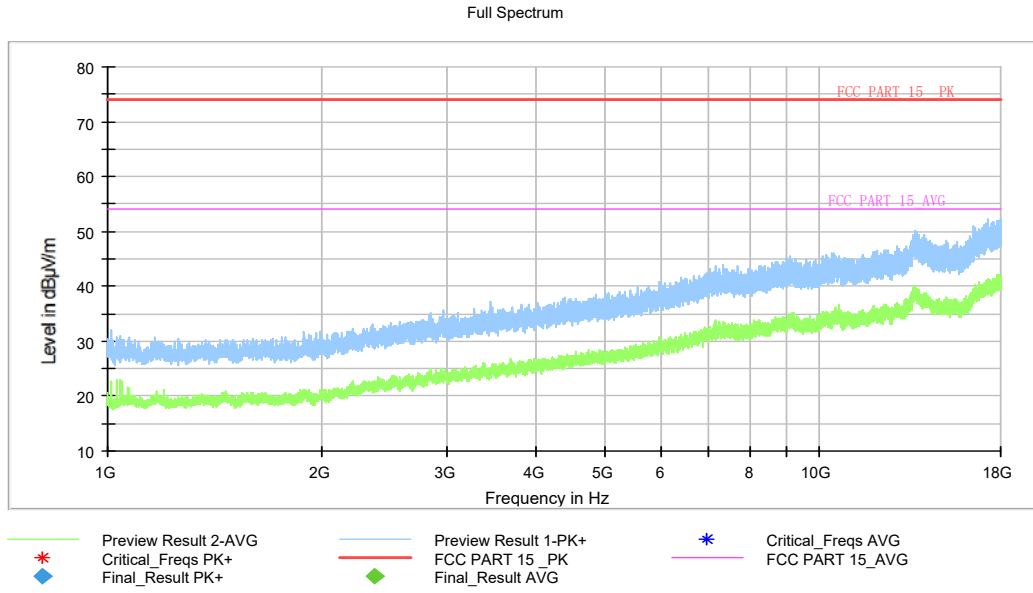


Figure B.2 Radiated Emission from 1GHz to 18GHz

Average detector

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Limit (dBµV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17888.140 | 42.0 | -29.5 | 46.0 | 25.580 | 54.000 | 12.000 | V |
| 17857.880 | 41.8 | -29.3 | 46.0 | 25.182 | 54.000 | 12.200 | H |
| 17852.440 | 41.6 | -29.3 | 46.0 | 24.982 | 54.000 | 12.400 | V |
| 17797.360 | 41.5 | -29.9 | 46.0 | 25.432 | 54.000 | 12.500 | H |
| 17745.340 | 41.5 | -29.6 | 46.0 | 25.156 | 54.000 | 12.500 | H |
| 17262.200 | 41.5 | -29.7 | 43.4 | 27.890 | 54.000 | 12.500 | H |

Peak detector

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Limit (dBµV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17272.060 | 52.3 | -29.7 | 43.4 | 38.690 | 74.000 | 21.700 | V |
| 17954.780 | 52.1 | -28.9 | 46.7 | 34.383 | 74.000 | 21.900 | V |
| 17751.120 | 51.9 | -29.6 | 46.0 | 35.556 | 74.000 | 22.100 | V |
| 17908.540 | 51.9 | -29.3 | 46.0 | 35.272 | 74.000 | 22.100 | V |
| 17629.740 | 51.7 | -29.4 | 45.2 | 35.852 | 74.000 | 22.300 | V |
| 17596.420 | 51.6 | -29.7 | 45.2 | 36.049 | 74.000 | 22.400 | H |

EUT2 Charger and LTE Band 12 idle mode, Set.1

Full Spectrum

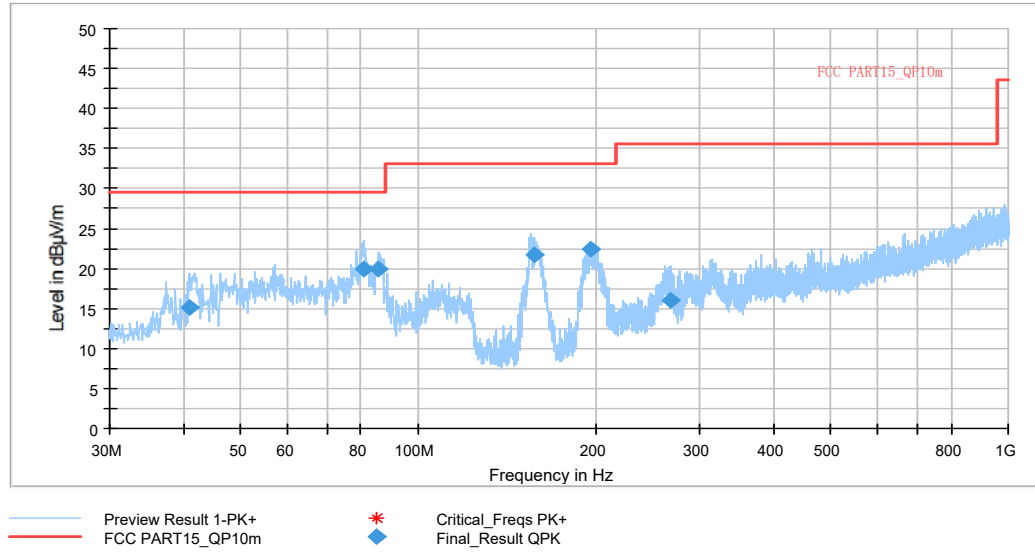


Figure B.3 Radiated Emission from 30MHz to 1GHz

QP detector

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|
| 40.864000 | 15.13 | 29.54 | 14.41 | 2000.0 | 120.000 | 175.0 | V | 221.0 |
| 80.925000 | 19.97 | 29.54 | 9.57 | 2000.0 | 120.000 | 323.0 | V | 266.0 |
| 85.872000 | 19.97 | 29.54 | 9.57 | 2000.0 | 120.000 | 175.0 | V | 293.0 |
| 157.652000 | 21.69 | 33.06 | 11.37 | 2000.0 | 120.000 | 100.0 | V | 72.0 |
| 195.482000 | 22.49 | 33.06 | 10.57 | 2000.0 | 120.000 | 100.0 | V | 59.0 |
| 267.650000 | 16.07 | 35.56 | 19.49 | 2000.0 | 120.000 | 108.0 | V | 136.0 |

EUT1 USB and LAN to PC, Set.2

Full Spectrum

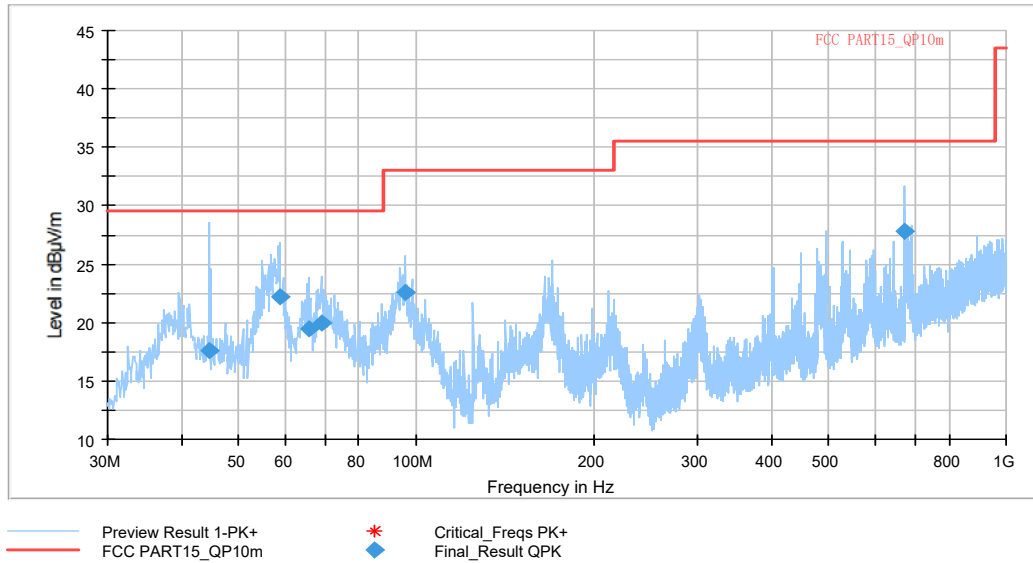


Figure B.4 Radiated Emission from 30MHz to 1GHz

QP detector

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|
| 44.550000 | 17.64 | 29.54 | 11.90 | 2000.0 | 120.000 | 225.0 | V | 165.0 |
| 58.809000 | 22.26 | 29.54 | 7.28 | 2000.0 | 120.000 | 125.0 | V | 66.0 |
| 65.890000 | 19.50 | 29.54 | 10.04 | 2000.0 | 120.000 | 296.0 | V | 76.0 |
| 68.994000 | 19.93 | 29.54 | 9.61 | 2000.0 | 120.000 | 106.0 | V | 66.0 |
| 95.960000 | 22.52 | 33.06 | 10.54 | 2000.0 | 120.000 | 125.0 | V | 5.0 |
| 672.431000 | 27.80 | 35.56 | 7.76 | 2000.0 | 120.000 | 175.0 | V | -5.0 |

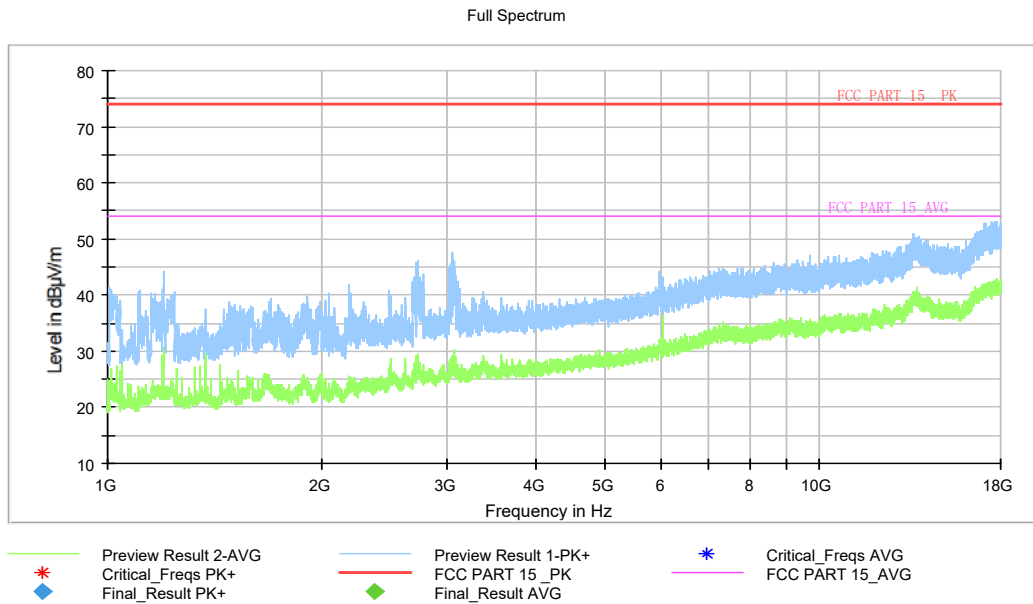


Figure B.5 Radiated Emission from 1GHz to 18GHz

Average detector

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Limit (dBµV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17812.320 | 42.8 | -29.6 | 46.0 | 26.476 | 54.000 | 11.200 | V |
| 17760.640 | 42.8 | -29.6 | 46.0 | 26.472 | 54.000 | 11.200 | V |
| 17762.680 | 42.7 | -29.6 | 46.0 | 26.372 | 54.000 | 11.300 | H |
| 17642.320 | 42.7 | -29.6 | 45.2 | 27.053 | 54.000 | 11.300 | V |
| 17988.780 | 42.6 | -29.1 | 46.7 | 24.998 | 54.000 | 11.400 | H |
| 17608.660 | 42.4 | -29.5 | 45.2 | 26.672 | 54.000 | 11.600 | V |

Peak detector

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Limit (dBµV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17639.260 | 53.1 | -29.4 | 45.2 | 37.252 | 74.000 | 20.900 | H |
| 17821.840 | 53.0 | -29.7 | 46.0 | 36.724 | 74.000 | 21.000 | H |
| 17518.560 | 52.9 | -29.3 | 44.4 | 37.803 | 74.000 | 21.100 | V |
| 17966.000 | 52.7 | -29.1 | 46.7 | 35.101 | 74.000 | 21.300 | H |
| 17162.240 | 52.7 | -29.8 | 42.4 | 40.117 | 74.000 | 21.300 | V |
| 17083.700 | 52.7 | -29.4 | 42.4 | 39.710 | 74.000 | 21.300 | V |

EUT1 charger and LAN to PC, Set.3

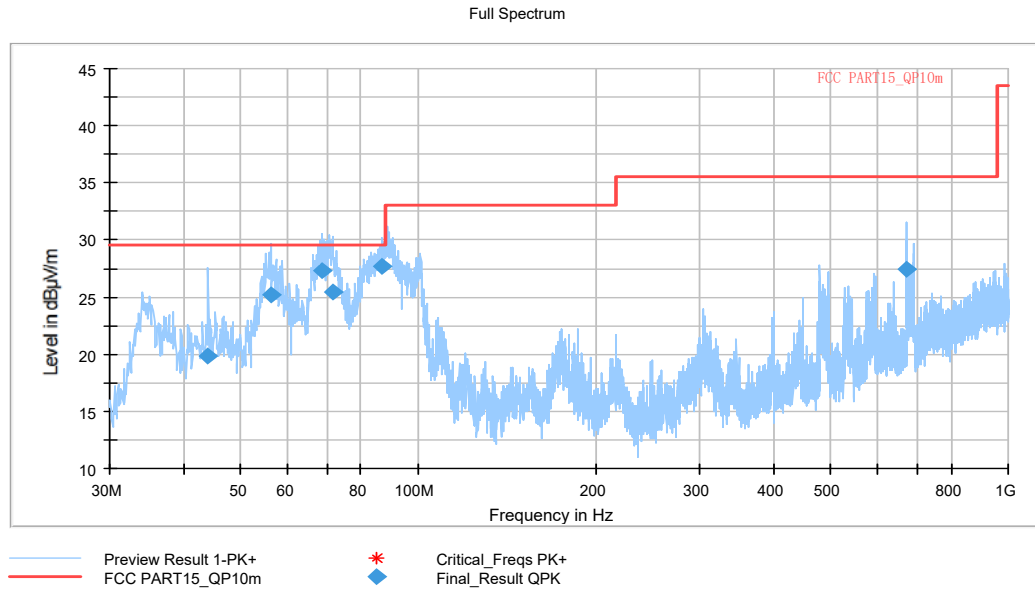


Figure B.6 Radiated Emission from 30MHz to 1GHz

QP detector

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------|----------------|-------------|-----------------|-----------------|-------------|-----|---------------|
| 44.065000 | 19.84 | 29.54 | 9.70 | 2000.0 | 120.000 | 325.0 | V | 225.0 |
| 56.384000 | 25.20 | 29.54 | 4.34 | 2000.0 | 120.000 | 196.0 | V | 135.0 |
| 68.800000 | 27.36 | 29.54 | 2.18 | 2000.0 | 120.000 | 181.0 | V | 117.0 |
| 71.807000 | 25.39 | 29.54 | 4.15 | 2000.0 | 120.000 | 100.0 | V | 105.0 |
| 86.648000 | 27.69 | 29.54 | 1.85 | 2000.0 | 120.000 | 125.0 | V | -14.0 |
| 672.334000 | 27.41 | 35.56 | 8.15 | 2000.0 | 120.000 | 189.0 | V | -24.0 |

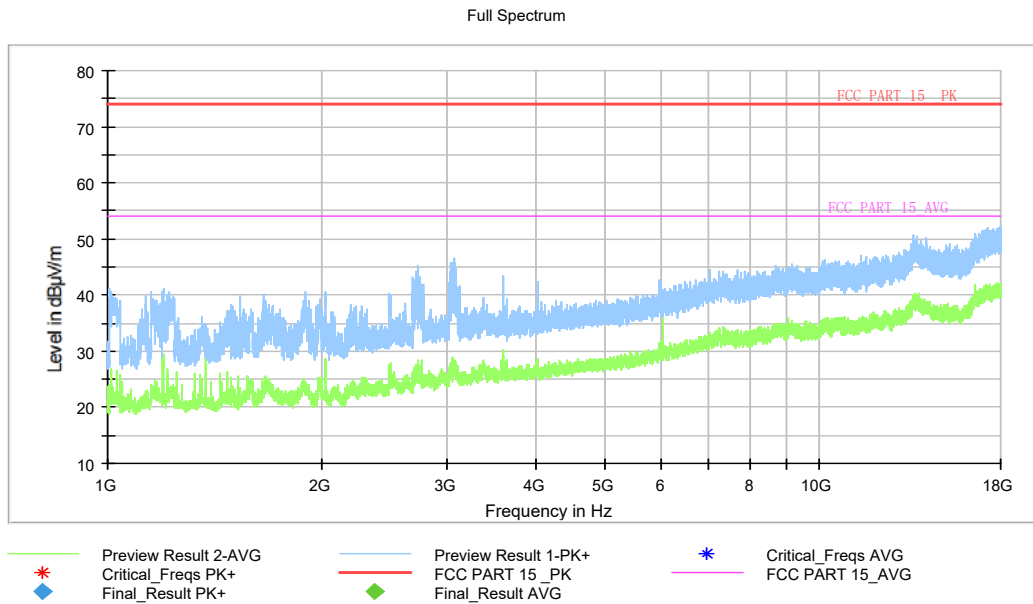


Figure B.7 Radiated Emission from 1GHz to 18GHz

Average detector

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Limit (dBµV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17743.300 | 42.1 | -29.6 | 46.0 | 25.756 | 54.000 | 11.900 | H |
| 17972.800 | 42.0 | -29.1 | 46.7 | 24.401 | 54.000 | 12.000 | V |
| 17941.860 | 42.0 | -28.9 | 46.7 | 24.283 | 54.000 | 12.000 | H |
| 17770.840 | 41.9 | -29.6 | 46.0 | 25.572 | 54.000 | 12.100 | H |
| 17952.740 | 41.9 | -28.9 | 46.7 | 24.183 | 54.000 | 12.100 | V |
| 17150.340 | 41.8 | -29.9 | 42.4 | 29.314 | 54.000 | 12.200 | V |

Peak detector

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Limit (dBµV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17976.540 | 52.3 | -29.1 | 46.7 | 34.701 | 74.000 | 21.700 | H |
| 17235.340 | 52.0 | -29.6 | 43.4 | 38.209 | 74.000 | 22.000 | V |
| 17881.340 | 52.0 | -29.5 | 46.0 | 35.580 | 74.000 | 22.000 | V |
| 17256.760 | 51.9 | -30.0 | 43.4 | 38.564 | 74.000 | 22.100 | H |
| 17550.860 | 51.8 | -29.5 | 44.4 | 36.934 | 74.000 | 22.200 | V |
| 17951.380 | 51.8 | -28.9 | 46.7 | 34.083 | 74.000 | 22.200 | V |

EUT3 charger and LTE band 12 idle mode, Set.4

Full Spectrum

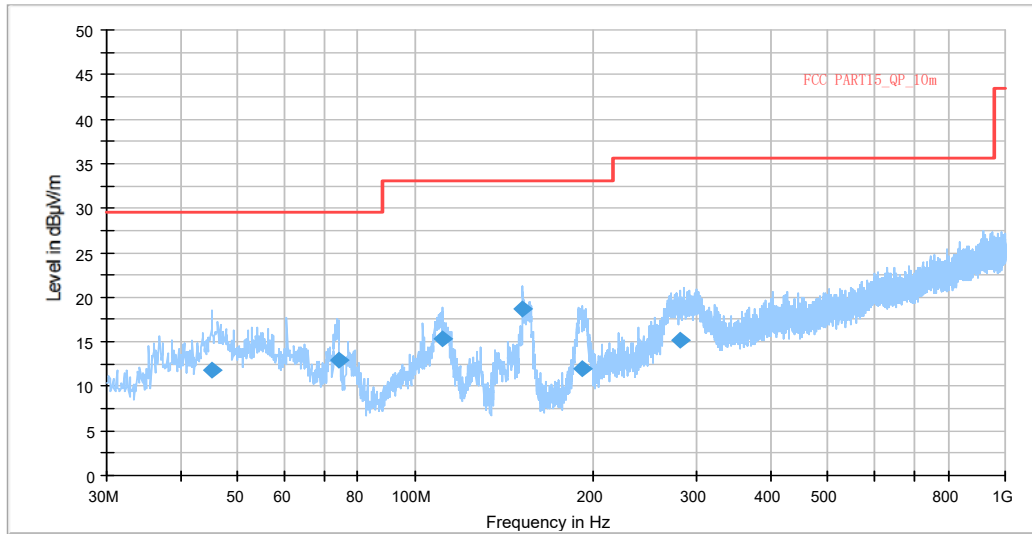


Figure B.8 Radiated Emission from 30MHz to 1GHz

QP detector

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------|----------------|-------------|-----------------|-------------|-----|---------------|
| 45.229000 | 11.76 | 29.54 | 17.78 | 120.000 | 322.0 | V | 302.0 |
| 74.135000 | 12.90 | 29.54 | 16.64 | 120.000 | 175.0 | V | 245.0 |
| 111.189000 | 15.34 | 33.06 | 17.72 | 120.000 | 100.0 | V | -25.0 |
| 152.026000 | 18.63 | 33.06 | 14.43 | 120.000 | 100.0 | V | -21.0 |
| 191.408000 | 12.02 | 33.06 | 21.04 | 120.000 | 176.0 | V | 245.0 |
| 281.715000 | 15.18 | 35.56 | 20.38 | 120.000 | 100.0 | V | 245.0 |

Full Spectrum

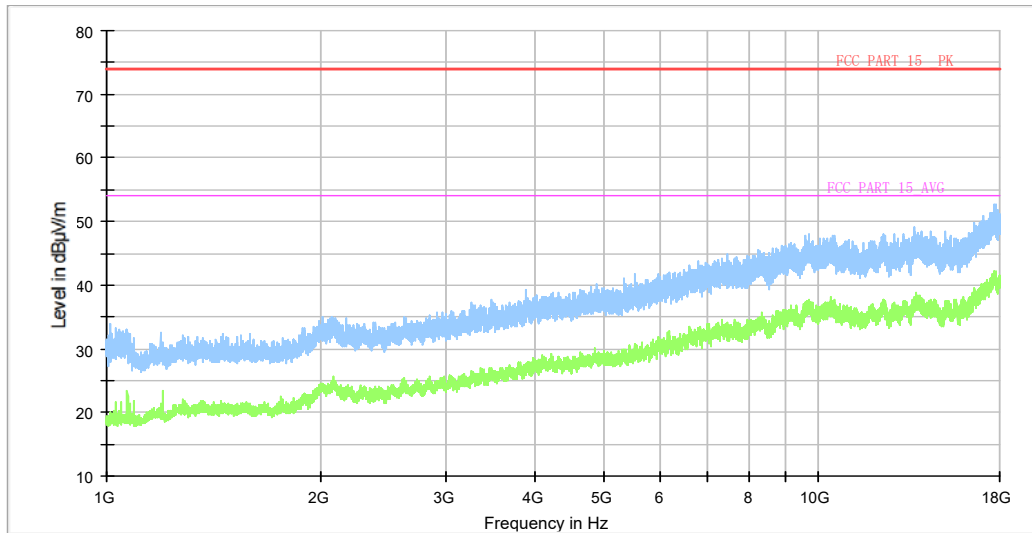


Figure B.9 Radiated Emission from 1GHz to 18GHz

Average detector

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Limit (dBµV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17689.580 | 42.1 | -30.0 | 45.2 | 26.834 | 54.000 | 11.900 | H |
| 17703.180 | 42.0 | -29.7 | 45.2 | 26.487 | 54.000 | 12.000 | H |
| 17730.380 | 41.9 | -29.7 | 45.2 | 26.321 | 54.000 | 12.100 | H |
| 17694.000 | 41.9 | -30.0 | 45.2 | 26.634 | 54.000 | 12.100 | H |
| 17745.680 | 41.8 | -29.6 | 46.0 | 25.456 | 54.000 | 12.200 | H |
| 17696.720 | 41.7 | -30.0 | 45.2 | 26.434 | 54.000 | 12.300 | V |

Peak detector

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Limit (dBµV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17702.500 | 52.7 | -29.7 | 45.2 | 37.187 | 74.000 | 21.300 | V |
| 17776.620 | 52.7 | -29.6 | 46.0 | 36.372 | 74.000 | 21.300 | V |
| 17680.740 | 52.3 | -30.0 | 45.2 | 37.034 | 74.000 | 21.700 | H |
| 17671.220 | 52.1 | -29.9 | 45.2 | 36.750 | 74.000 | 21.900 | H |
| 17787.500 | 52.0 | -29.9 | 46.0 | 35.932 | 74.000 | 22.000 | H |
| 17769.480 | 52.0 | -29.6 | 46.0 | 35.672 | 74.000 | 22.000 | V |

EUT3 charger and LAN to PC mode, Set.5

Full Spectrum

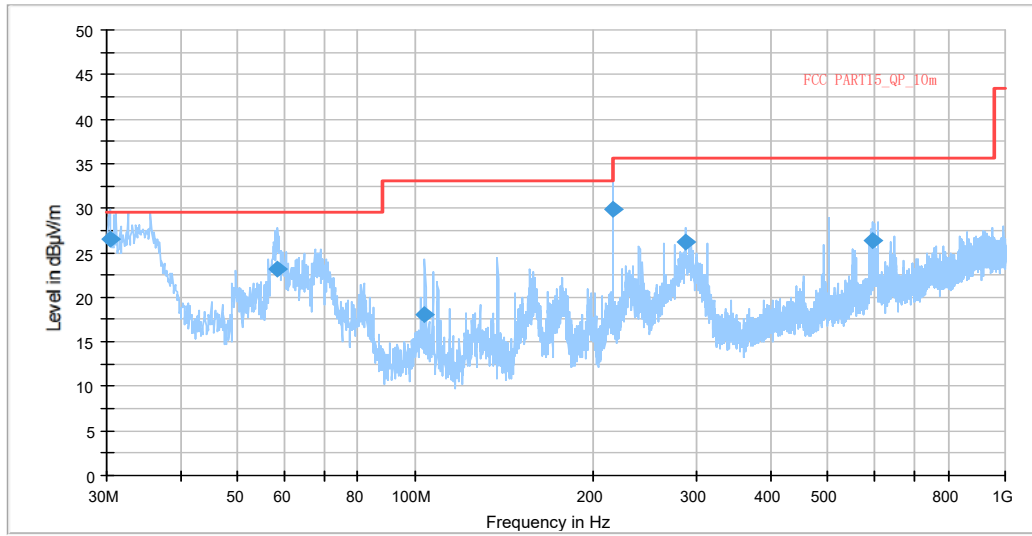


Figure B.10 Radiated Emission from 30MHz to 1GHz

QP detector

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------|----------------|-------------|-----------------|-------------|-----|---------------|
| 30.388000 | 26.50 | 29.54 | 3.04 | 120.000 | 275.0 | V | 45.0 |
| 58.518000 | 23.20 | 29.54 | 6.34 | 120.000 | 209.0 | V | -6.0 |
| 103.914000 | 18.06 | 33.06 | 15.00 | 120.000 | 276.0 | V | 283.0 |
| 215.949000 | 29.90 | 33.06 | 3.16 | 120.000 | 100.0 | V | 85.0 |
| 288.020000 | 26.20 | 35.56 | 9.36 | 120.000 | 225.0 | H | 173.0 |
| 597.159000 | 26.33 | 35.56 | 9.23 | 120.000 | 210.0 | V | 315.0 |

Full Spectrum

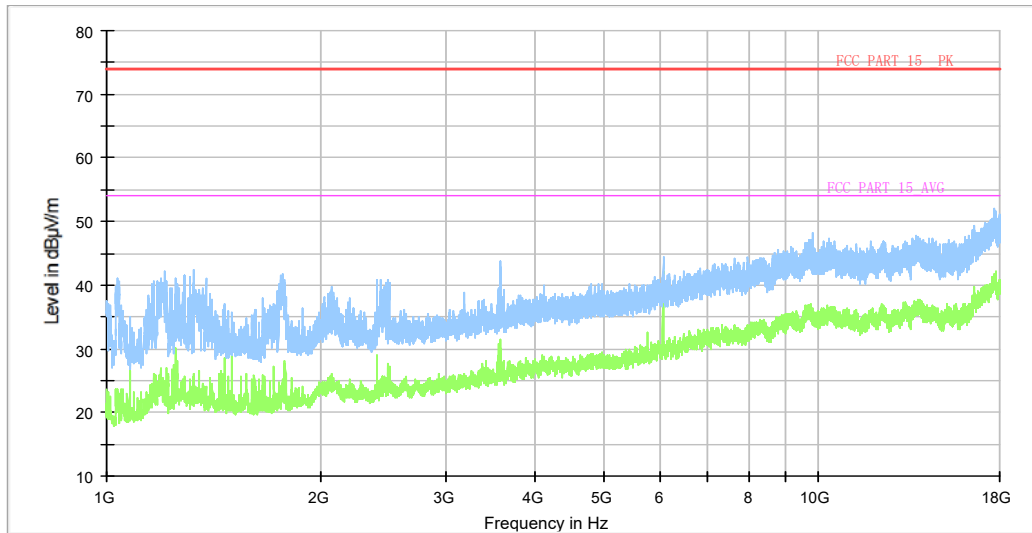


Figure B.11 Radiated Emission from 1GHz to 18GHz

Average detector

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Limit (dBµV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 6053.760 | 42.3 | -37.8 | 34.4 | 45.717 | 54.000 | 11.700 | V |
| 17737.180 | 41.8 | -29.7 | 46.0 | 25.515 | 54.000 | 12.200 | V |
| 17691.280 | 41.5 | -30.0 | 45.2 | 26.234 | 54.000 | 12.500 | H |
| 17626.000 | 41.2 | -29.4 | 45.2 | 25.352 | 54.000 | 12.800 | H |
| 17535.560 | 41.2 | -29.3 | 44.4 | 26.167 | 54.000 | 12.800 | V |
| 17716.440 | 41.2 | -29.7 | 45.2 | 25.687 | 54.000 | 12.800 | V |

Peak detector

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Limit (dBµV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17644.020 | 52.1 | -29.6 | 45.2 | 36.453 | 74.000 | 21.900 | H |
| 17634.500 | 51.8 | -29.4 | 45.2 | 35.952 | 74.000 | 22.200 | H |
| 17732.080 | 51.8 | -29.7 | 45.2 | 36.221 | 74.000 | 22.200 | H |
| 17747.040 | 51.6 | -29.6 | 46.0 | 35.256 | 74.000 | 22.400 | V |
| 17696.720 | 51.6 | -30.0 | 45.2 | 36.334 | 74.000 | 22.400 | H |
| 17739.900 | 51.4 | -29.7 | 46.0 | 35.115 | 74.000 | 22.600 | V |

EUT3 charger and LAN to PC mode, Set.6

Full Spectrum

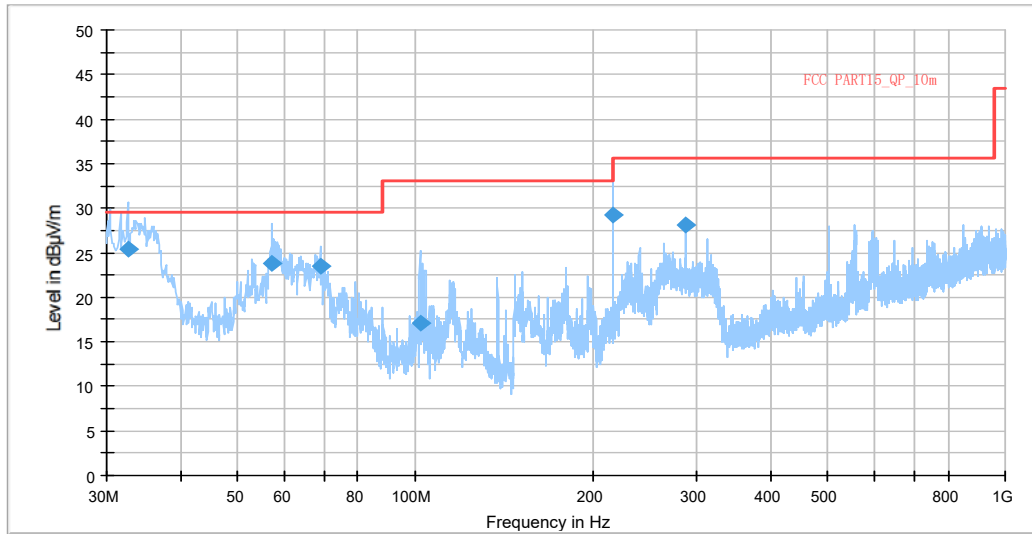


Figure B.12 Radiated Emission from 30MHz to 1GHz

QP detector

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) |
|-----------------|--------------------|----------------|-------------|-----------------|-------------|-----|---------------|
| 32.619000 | 25.38 | 29.54 | 4.16 | 120.000 | 100.0 | V | 65.0 |
| 57.160000 | 23.79 | 29.54 | 5.75 | 120.000 | 287.0 | V | -6.0 |
| 69.091000 | 23.48 | 29.54 | 6.06 | 120.000 | 222.0 | V | 227.0 |
| 101.877000 | 17.02 | 33.06 | 16.04 | 120.000 | 113.0 | V | 283.0 |
| 215.949000 | 29.31 | 33.06 | 3.75 | 120.000 | 100.0 | V | 84.0 |
| 288.020000 | 28.10 | 35.56 | 7.46 | 120.000 | 100.0 | V | 102.0 |

Full Spectrum

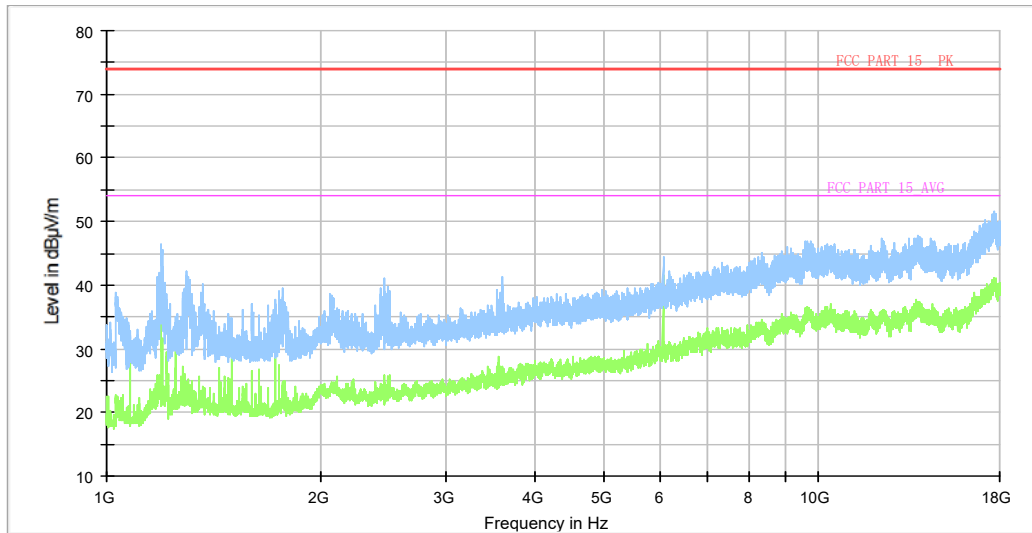


Figure B.13 Radiated Emission from 1GHz to 18GHz

Average detector

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Limit (dBµV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17689.580 | 41.1 | -30.0 | 45.2 | 25.834 | 54.000 | 12.900 | H |
| 17718.140 | 41.0 | -29.7 | 45.2 | 25.487 | 54.000 | 13.000 | H |
| 17672.920 | 41.0 | -29.9 | 45.2 | 25.650 | 54.000 | 13.000 | H |
| 17685.500 | 41.0 | -30.0 | 45.2 | 25.734 | 54.000 | 13.000 | V |
| 17777.300 | 40.9 | -29.6 | 46.0 | 24.572 | 54.000 | 13.100 | V |
| 17750.780 | 40.9 | -29.6 | 46.0 | 24.556 | 54.000 | 13.100 | V |

Peak detector

| Frequency (MHz) | Measurement Result (dBµV/m) | Cable loss (dB) | Antenna Factor (dB/m) | Receiver Reading (dBµV) | Limit (dBµV/m) | Margin (dB) | Antenna Pol. (H/V) |
|-----------------|-----------------------------|-----------------|-----------------------|-------------------------|----------------|-------------|--------------------|
| 17734.800 | 51.5 | -29.7 | 45.2 | 35.921 | 74.000 | 22.500 | V |
| 17779.000 | 51.2 | -29.6 | 46.0 | 34.872 | 74.000 | 22.800 | V |
| 17569.900 | 51.1 | -29.8 | 45.2 | 35.646 | 74.000 | 22.900 | V |
| 17755.540 | 51.1 | -29.6 | 46.0 | 34.756 | 74.000 | 22.900 | V |
| 17746.360 | 51.0 | -29.6 | 46.0 | 34.656 | 74.000 | 23.000 | H |
| 17723.240 | 50.9 | -29.7 | 45.2 | 35.321 | 74.000 | 23.100 | V |

B.2. Conducted Emission

Reference: FCC: Part 15.107(a).

Method of measurement: For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 – 2014, section 7.3.

EUT operating mode: The EUT is operating in the charging mode and USB data mode if applicable.

Measurement limit:

| Frequency of emission (MHz) | Conducted limit (dB μ V) | |
|-----------------------------|------------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency

Test Settings:

| Voltage(V) | Frequency(Hz) |
|------------|---------------|
| 120 | 60 |

| RBW/IF bandwidth | Sweep Time(s) |
|------------------|---------------|
| 9kHz | 1 |

Measurement results:

The measurement results showed as followed are worst cases, and the combinations of different batteries, cables and headsets were considered if applicable.

EUT1 Charger and LTE Band 12 idle mode, Set.1

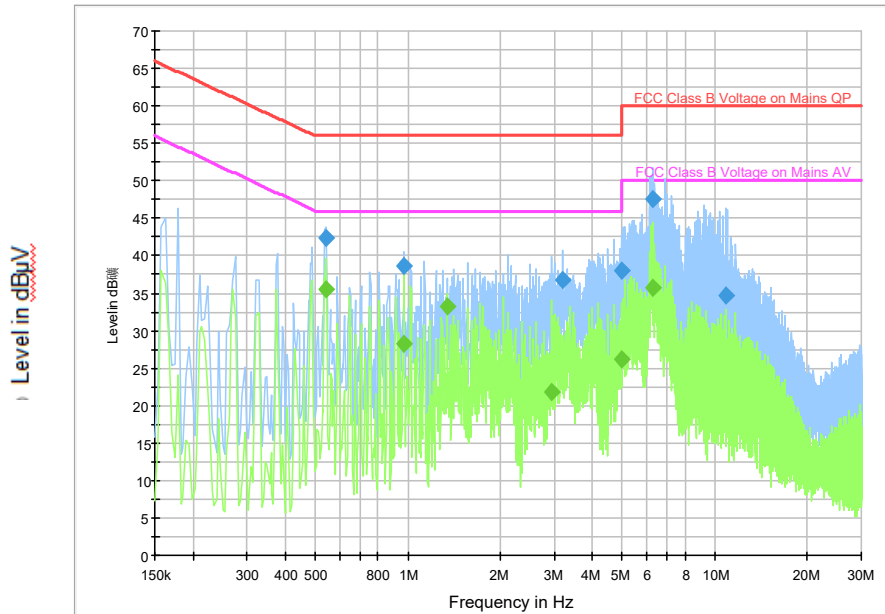


Figure B.14 Conducted Emission

Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.542000 | 42.3 | 5000.0 | 9.000 | On | N | 19.8 | 13.7 | 56.0 |
| 0.970000 | 38.7 | 5000.0 | 9.000 | On | N | 19.6 | 17.3 | 56.0 |
| 3.182000 | 36.8 | 5000.0 | 9.000 | On | L1 | 19.6 | 19.2 | 56.0 |
| 4.998000 | 38.0 | 5000.0 | 9.000 | On | N | 19.5 | 18.0 | 56.0 |
| 6.262000 | 47.6 | 5000.0 | 9.000 | On | L1 | 19.7 | 12.4 | 60.0 |
| 10.874000 | 34.7 | 5000.0 | 9.000 | On | N | 19.5 | 25.3 | 60.0 |

Final Result 2

| Frequency (MHz) | CAverage (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.542000 | 35.5 | 5000.0 | 9.000 | On | N | 19.8 | 10.5 | 46.0 |
| 0.970000 | 28.3 | 5000.0 | 9.000 | On | N | 19.6 | 17.7 | 46.0 |
| 1.346000 | 33.3 | 5000.0 | 9.000 | On | L1 | 19.7 | 12.7 | 46.0 |
| 2.934000 | 21.8 | 5000.0 | 9.000 | On | N | 19.6 | 24.2 | 46.0 |
| 4.970000 | 26.2 | 5000.0 | 9.000 | On | N | 19.6 | 19.8 | 46.0 |
| 6.262000 | 35.7 | 5000.0 | 9.000 | On | L1 | 19.7 | 14.3 | 50.0 |

EUT1 USB and LAN to PC, Set.2

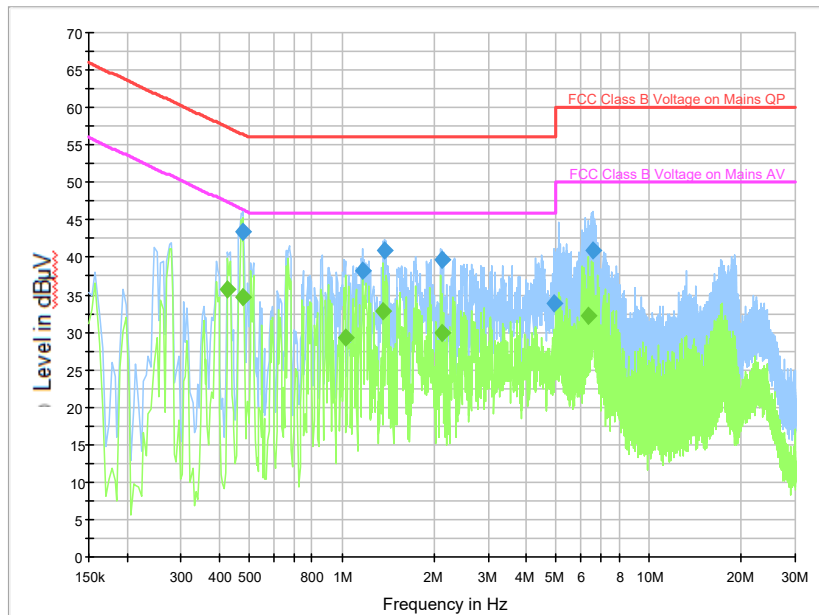


Figure B.15 Conducted Emission

Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.478000 | 43.5 | 5000.0 | 9.000 | On | N | 19.8 | 12.9 | 56.4 |
| 1.170000 | 38.2 | 5000.0 | 9.000 | On | N | 19.6 | 17.8 | 56.0 |
| 1.378000 | 41.0 | 5000.0 | 9.000 | On | L1 | 19.7 | 15.0 | 56.0 |
| 2.126000 | 39.7 | 5000.0 | 9.000 | On | N | 19.7 | 16.3 | 56.0 |
| 4.910000 | 33.9 | 5000.0 | 9.000 | On | L1 | 19.6 | 22.1 | 56.0 |
| 6.546000 | 40.9 | 5000.0 | 9.000 | On | L1 | 19.7 | 19.1 | 60.0 |

Final Result 2

| Frequency (MHz) | CAverage (dBμV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.426000 | 35.7 | 5000.0 | 9.000 | On | L1 | 19.7 | 11.7 | 47.3 |
| 0.478000 | 34.7 | 5000.0 | 9.000 | On | N | 19.8 | 11.7 | 46.4 |
| 1.030000 | 29.2 | 5000.0 | 9.000 | On | L1 | 19.8 | 16.8 | 46.0 |
| 1.366000 | 32.9 | 5000.0 | 9.000 | On | L1 | 19.7 | 13.1 | 46.0 |
| 2.126000 | 29.8 | 5000.0 | 9.000 | On | N | 19.7 | 16.2 | 46.0 |
| 6.322000 | 32.2 | 5000.0 | 9.000 | On | L1 | 19.7 | 17.8 | 50.0 |

EUT1 Charger and LAN to PC mode, Set.3

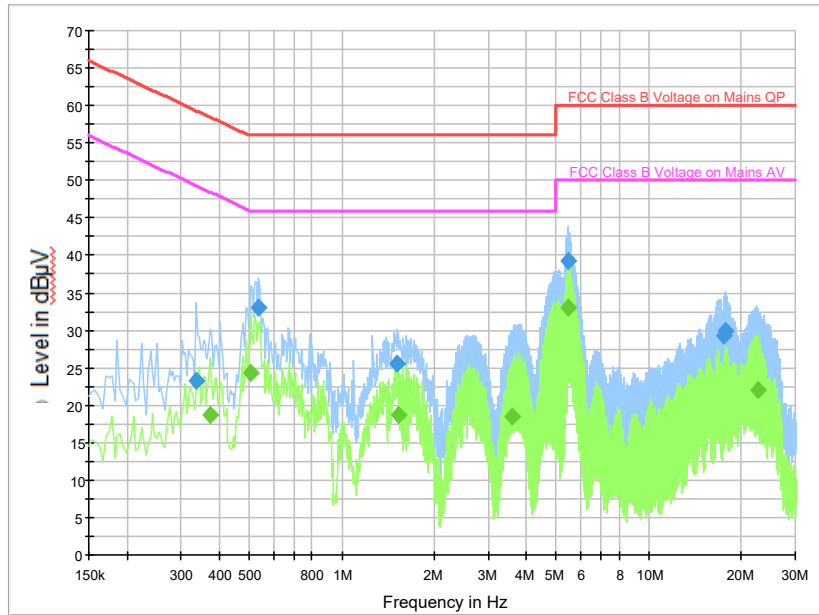


Figure B.16 Conducted Emission

Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.334000 | 23.2 | 5000.0 | 9.000 | On | N | 19.8 | 36.2 | 59.4 |
| 0.538000 | 33.0 | 5000.0 | 9.000 | On | L1 | 19.7 | 23.0 | 56.0 |
| 1.518000 | 25.6 | 5000.0 | 9.000 | On | L1 | 19.7 | 30.4 | 56.0 |
| 5.466000 | 39.4 | 5000.0 | 9.000 | On | L1 | 19.6 | 20.6 | 60.0 |
| 17.578000 | 29.3 | 5000.0 | 9.000 | On | N | 19.9 | 30.7 | 60.0 |
| 17.670000 | 30.0 | 5000.0 | 9.000 | On | N | 19.9 | 30.0 | 60.0 |

Final Result 2

| Frequency (MHz) | CAverage (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.374000 | 18.7 | 5000.0 | 9.000 | On | L1 | 19.8 | 29.7 | 48.4 |
| 0.506000 | 24.3 | 5000.0 | 9.000 | On | L1 | 19.7 | 21.7 | 46.0 |
| 1.522000 | 18.7 | 5000.0 | 9.000 | On | L1 | 19.7 | 27.3 | 46.0 |
| 3.578000 | 18.5 | 5000.0 | 9.000 | On | L1 | 19.6 | 27.5 | 46.0 |
| 5.438000 | 33.0 | 5000.0 | 9.000 | On | L1 | 19.6 | 17.0 | 50.0 |
| 22.566000 | 22.0 | 5000.0 | 9.000 | On | L1 | 19.8 | 28.0 | 50.0 |

EUT3 charger and LTE band 12 idle mode, Set.4

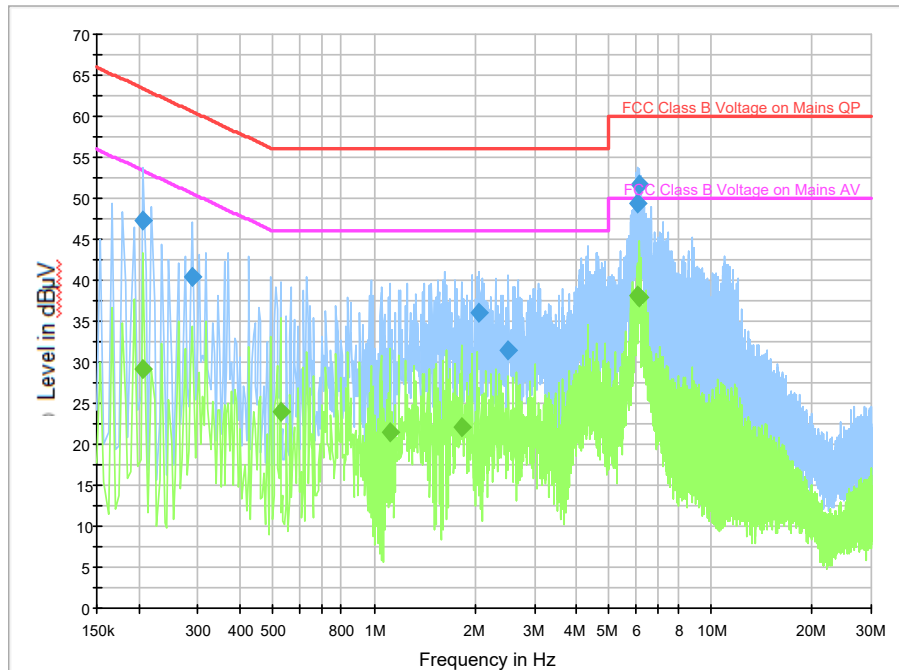


Figure B.17 Conducted Emission

Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.206000 | 47.3 | 2000.0 | 9.000 | On | L1 | 19.7 | 16.0 | 63.4 |
| 0.290000 | 40.4 | 2000.0 | 9.000 | On | L1 | 19.7 | 20.1 | 60.5 |
| 2.046000 | 36.0 | 2000.0 | 9.000 | On | L1 | 19.6 | 20.0 | 56.0 |
| 2.510000 | 31.5 | 2000.0 | 9.000 | On | L1 | 19.6 | 24.5 | 56.0 |
| 6.050000 | 49.4 | 2000.0 | 9.000 | On | L1 | 19.6 | 10.6 | 60.0 |
| 6.134000 | 51.8 | 2000.0 | 9.000 | On | L1 | 19.6 | 8.2 | 60.0 |

Final Result 2

| Frequency (MHz) | CAverage (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.206000 | 29.1 | 2000.0 | 9.000 | On | N | 19.7 | 24.3 | 53.4 |
| 0.526000 | 23.9 | 2000.0 | 9.000 | On | L1 | 19.7 | 22.1 | 46.0 |
| 1.114000 | 21.5 | 2000.0 | 9.000 | On | L1 | 19.7 | 24.5 | 46.0 |
| 1.814000 | 22.1 | 2000.0 | 9.000 | On | L1 | 19.6 | 23.9 | 46.0 |
| 6.098000 | 38.0 | 2000.0 | 9.000 | On | L1 | 19.6 | 12.0 | 50.0 |
| 6.134000 | 37.9 | 2000.0 | 9.000 | On | L1 | 19.6 | 12.1 | 50.0 |

EUT3 charger and LTE band 12 idle mode, Set.5

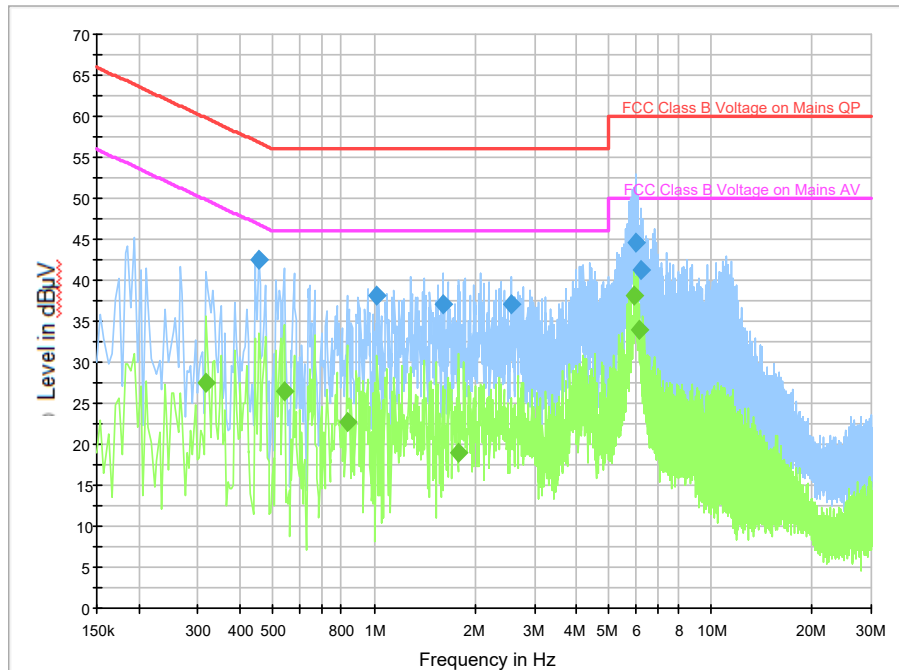


Figure B.18 Conducted Emission

Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.454000 | 42.5 | 2000.0 | 9.000 | On | L1 | 19.7 | 14.3 | 56.8 |
| 1.022000 | 38.0 | 2000.0 | 9.000 | On | L1 | 19.7 | 18.0 | 56.0 |
| 1.602000 | 37.1 | 2000.0 | 9.000 | On | L1 | 19.6 | 18.9 | 56.0 |
| 2.554000 | 37.1 | 2000.0 | 9.000 | On | L1 | 19.6 | 18.9 | 56.0 |
| 5.974000 | 44.5 | 2000.0 | 9.000 | On | L1 | 19.6 | 15.5 | 60.0 |
| 6.218000 | 41.2 | 2000.0 | 9.000 | On | L1 | 19.6 | 18.8 | 60.0 |

Final Result 2

| Frequency (MHz) | CAverage (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.318000 | 27.6 | 2000.0 | 9.000 | On | L1 | 19.7 | 22.2 | 49.8 |
| 0.542000 | 26.5 | 2000.0 | 9.000 | On | L1 | 19.7 | 19.5 | 46.0 |
| 0.830000 | 22.6 | 2000.0 | 9.000 | On | L1 | 19.7 | 23.4 | 46.0 |
| 1.778000 | 19.0 | 2000.0 | 9.000 | On | L1 | 19.6 | 27.0 | 46.0 |
| 5.950000 | 38.1 | 2000.0 | 9.000 | On | L1 | 19.6 | 11.9 | 50.0 |
| 6.142000 | 33.9 | 2000.0 | 9.000 | On | L1 | 19.6 | 16.1 | 50.0 |

ANNEX C: Persons involved in this testing

| Test Item | Tester |
|--------------------|---|
| Radiated Emission | Yan Hanchen Chen Tianwei Zhang Tian Li |
| Conducted Emission | Chen Tianwei Li Pengfei Yan Hanchen Ding Zai |

*****END OF REPORT*****