# TEST REPORT

## No. I15Z42009-EMC01

**for**

**TCL Communication Ltd.**

**HSDPA/HSUPA/UMTS quad band / GSM quad band /LTE 6 bands mobile phone**

**Model Name: 5017E**

**FCC ID: 2ACCJH034**

**with**

**Hardware Version: PIO2**

**Software Version: vBD2**

**Issued Date: 2015-08-20**

**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:**

***FCC 2.948 Listed: No. 525429***

CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT

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

Tel: +86(0)10-62304633-2512, Fax: +86(0)10-62304633-2504

Email: cttl_terminals@catr.cn, website: www.chinattl.com

# REPORT HISTORY

| Report Number | Revision | Description | Issue Date |
|---|---|---|---|
| I15Z42009-EMC01 | Rev.0 | 1st edition | 2015-08-20 |

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# 1. Test Laboratory

## 1.1. Testing Location

**Location 1: CTTL(huayuan North Road)**

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

## 1.2. Testing Environment

Normal Temperature: 15-35℃

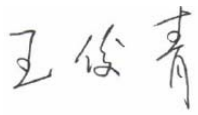
Relative Humidity: 20-75%

## 1.3. Project data

Testing Start Date: 2015-05-11

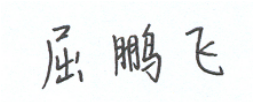
Testing End Date: 2015-05-14

## 1.4. Signature



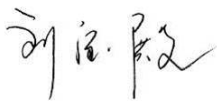
**Wang Junqing**

**(Prepared this test report)**



**Qu Pengfei**

**(Reviewed this test report)**



**Liu Baodian**

**Deputy Director of the laboratory**

**(Approved this test report)**

# 2. Client Information

## 2.1. Applicant Information

| | |
|---|---|
| Company Name: | TCL Communication Ltd. |
| Address /Post: | 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. |
| City: | Shanghai |
| Postal Code: | 201203 |
| Country: | China |
| Contact Person: | Gong Zhizhou |
| Contact Email | zhizhou.gong@tcl.com |
| Telephone: | 0086-21-51798260 |
| Fax: | 0086-21-61460602 |

## 2.2. Manufacturer Information

| | |
|---|---|
| Company Name: | TCL Communication Ltd. |
| Address /Post: | 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area Shanghai, P.R. China. |
| City: | Shanghai |
| Postal Code: | 201203 |
| Country: | China |
| Telephone: | 0086-21-51798260 |
| Fax: | 0086-21-61460602 |

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

## 3.1. About EUT

| | |
|---|---|
| Description | HSDPA/HSUPA/UMTS quad band / GSM quad band /LTE 6 bands mobile phone |
| Model Name | 5017E |
| FCC ID | 2ACCJH034 |
| Extreme vol. Limits | 3.5VDC to 4.2VDC (nominal: 3.8VDC) |

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MIIT of People's Republic of China.

## 3.2. Internal Identification of EUT used during the test

| EUT ID* | SN or IMEI | HW Version | SW Version |
|---|---|---|---|
| EUT1 | / | PIO2 | vBD2 |

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

## 3.3. Internal Identification of AE used during the test

| AE ID* | Description | SN | Remarks |
|---|---|---|---|
| AE1 | Battery | / | 15TCT-BA-0192 |
| AE2 | Battery | / | 15TCT-BA-0194 |
| AE3 | Battery | / | 15TCT-BA-0219 |
| AE4 | Battery | / | 15TCT-BA-0212 |
| AE7 | Travel charger | / | 15TCT-CH-0175 |
| AE8 | Travel charger | / | 15TCT-CH-0169 |
| AE9 | Travel charger | / | 15TCT-CH-0138 |
| AE10 | Travel charger | / | 15TCT-CH-0121 |
| AE11 | Travel charger | / | 15TCT-CH-0104 |
| AE12 | Travel charger | / | 15TCT-CH-0099 |
| AE13 | USB cable | / | 15TCT-DC-0047 |
| AE14 | USB cable | / | 15TCT-DC-0038 |
| AE15 | USB cable | / | / |
| AE16 | USB cable | / | / |
| AE17 | USB cable | / | / |

AE1, AE2

| | |
|---|---|
| Model | CAB1780002C1 |
| Manufacturer | BYD |
| Capacitance | 1780mAh |
| Nominal voltage | 3.8V |

AE3, AE4

| | |
|---|---|
| Model | CAB1780000C2 |
| Manufacturer | SCUD |
| Capacitance | 1780mAh |
| Nominal voltage | 3.8V |

AE7, AE8

| | |
|---|---|
| Model | CBA0066AG0C1 |
| Manufacturer | BYD |
| Length of cable | 122cm |

AE9, AE10

| | |
|---|---|
| Model | CBA3068AG0C1 |
| Manufacturer | BYD |
| Length of cable | / |

AE11, AE12

| | |
|---|---|
| Model | CBA3068AG0C4 |
| Manufacturer | Aohai |
| Length of cable | / |

AE13, AE14

| | |
|---|---|
| Model | CDA3122002C2 |
| Manufacturer | Shenghua |
| Length of cable | 98cm |

AE15

| | |
|---|---|
| Model | CDA3122002C1 |
| Manufacturer | JUWEI |
| Length of cable | 98cm |

AE16

| | |
|---|---|
| Model | CDA3122005C2 |
| Manufacturer | Shenghua |
| Length of cable | / |

AE17

| | |
|---|---|
| Model | CDA3122005C1 |
| Manufacturer | Juwei |
| Length of cable | / |

*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 +AE1/AE3 +AE7 | Charger |
| Set.3 | EUT1 +AE1/AE3 +AE9 +AE13/AE15 | Charger |
| Set.4 | EUT1 +AE1/AE3 +AE11 +AE13/AE15 | Charger |
| Set.5 | EUT1 +AE1/AE3 +AE13/AE15 | USB |

Note:
HSDPA/HSUPA/UMTS quad band / GSM quad band /LTE 6 bands mobile phone 5017E manufactured by TCL Communication Ltd is a variant model based on 5017A for conformance test. According to the declaration of changes, the results are inherited from the initial model. The report number of initial model is I15Z41055-EMC01.

# 4. Reference Documents

## 4.1. 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 | 10-1-13 Edition |
| ANSI C63.4 | Methods of Measurement of Radio-Noise Emissions from Low - Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | 2014 |

## 5. LABORATORY ENVIRONMENT

**Semi-anechoic chamber SAC-1** (23 meters×17meters×10meters) did not exceed following limits along the EMC testing:

| | |
|---|---|
| Temperature | Min. = 15 ℃, Max. = 35 ℃ |
| Relative humidity | Min. = 15 %, Max. = 75 % |
| Shielding effectiveness | 0.014MHz-1MHz, >60dB;<br>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 |
| Uniformity of field strength | Between 0 and 6 dB, from 80 to 3000 MHz |

**Shielded room** did not exceed following limits along the EMC testing:

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

# 6. SUMMARY OF TEST RESULTS

| Abbreviations used in this clause: | | |
|---|---|---|
| Verdict Column | P | Pass |
| | NA | Not applicable |
| | F | Fail |
| Location Column | 1/2/3/4 | The test is performed in test location 1, 2, 3 or 4 which are described in section 1.1 of this report |

| Clause | List | Clause in FCC rules | Verdict | Location |
|---|---|---|---|---|
| 1 | Radiated Emission | 15.109(a) | P | 1 |
| 2 | Conducted Emission | 15.107(a) | P | 1 |

## 7. Test Equipments Utilized

| NO. | NAME | TYPE | SERIES NUMBER | PRODUCER | CAL. DUE DATE | CAL. INTERVAL |
|---|---|---|---|---|---|---|
| 1. | Test Receiver | ESCI | 100344 | R&S | 2016-03-03 | 1 year |
| 2. | Test Receiver | ESCI 7 | 100948 | R&S | 2016-07-07 | 1 year |
| 3. | Universal Radio Communication Tester | CMU200 | 109914 | R&S | 2016-03-26 | 1 year |
| 4. | Test Receiver | FSV | 101047 | R&S | 2016-07-02 | 1 year |
| 5. | LISN | ESH2-Z5 | 829991/012 | R&S | 2016-04-12 | 1 year |
| 6. | EMI Antenna | VULB 9163 | 9163-234 | Schwarzbeck | 2016-09-16 | 3 years |
| 7. | EMI Antenna | 3115 | 9906-5827 | ETS-Lindgren | 2016-11-19 | 3 years |
| 8. | PC | OPTIPLEX 380 | 2X1YV2X | DELL | N/A | N/A |
| 9. | Monitor | E178FPc | CN-OWR979-64180 -7AJ-D2MS | DELL | N/A | N/A |
| 10. | Printer | P1606dn | VNC3L52122 | HP | N/A | N/A |
| 11. | Keyboard | L100 | CN0RH65965 8907 ATOI40 | DELL | N/A | N/A |
| 12. | Mouse | M-UAE119 | LZ935220ZRC | Lenovo | N/A | N/A |

# ANNEX A: MEASUREMENT RESULTS

## A.1 Radiated Emission (§15.109(a))

### A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (USB mode of MS and charging mode of MS) at distances of 10 meters(for 30MHz-1GHz) and 3 meters (for above 1GHz) is tested. Tested 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 a distance of 3/10 meters from the EUT. During the tests, 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.

### A.1.2 EUT Operating Mode:

The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode. The model of the PC is DELL OPTIPLEX 380, and the serial number of the PC is 2X1YV2X. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

### A.1.3 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. 10 meters' limit is got by converting.

### A.1.4 Test Condition

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

**A.1.5 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:

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

Where

$G_A$: Antenna factor of receive antenna

$G_{PL}$: Path Loss

$P_{Mea}$: Measurement result on receiver.

Measurement uncertainty (worst case): $U$ = 4.3 dB, $k$=2.

**Measurement results for Set.1**:

**Charging Mode/Average detector**

| Frequency(MHz) | Result(dBµV/m) | $G_{PL}$ (dB) | $G_A$ (dB/m) | $P_{Mea}$(dBµV) | Polarity |
|---|---|---|---|---|---|
| 8936.500 | 35.0 | -26.7 | 38.0 | 23.700 | H |
| 9848.200 | 35.0 | -24.8 | 38.0 | 21.800 | V |
| 9876.100 | 34.9 | -24.9 | 38.0 | 21.800 | V |
| 8927.200 | 34.9 | -26.7 | 38.0 | 23.600 | H |
| 9858.700 | 34.9 | -24.8 | 38.0 | 21.700 | H |
| 8941.300 | 34.9 | -26.7 | 38.0 | 23.600 | H |

**Charging Mode/Peak detector**

| Frequency(MHz) | Result(dBµV/m) | $G_{PL}$ (dB) | $G_A$ (dB/m) | $P_{Mea}$(dBµV) | Polarity |
|---|---|---|---|---|---|
| 9845.800 | 47.6 | -24.8 | 38.0 | 34.400 | H |
| 8932.000 | 47.4 | -26.7 | 38.0 | 36.100 | H |
| 9844.300 | 47.3 | -24.8 | 38.0 | 34.100 | V |
| 9714.700 | 47.3 | -24.5 | 38.0 | 33.800 | H |
| 8883.700 | 47.2 | -26.6 | 38.0 | 35.800 | H |
| 9664.300 | 47.1 | -25.4 | 38.0 | 34.500 | V |

**Measurement results for Set.3**:

**Charging Mode/Average detector**

| Frequency(MHz) | Result(dBμV/m) | $G_{PL}$ (dB) | $G_A$ (dB/m) | $P_{Mea}$(dBμV) | Polarity |
|---|---|---|---|---|---|
| 8924.800 | 35.0 | -26.6 | 38.0 | 23.600 | H |
| 8931.700 | 34.9 | -26.7 | 38.0 | 23.600 | V |
| 9879.400 | 34.9 | -24.9 | 38.0 | 21.800 | V |
| 8936.800 | 34.8 | -26.7 | 38.0 | 23.500 | H |
| 8940.400 | 34.8 | -26.7 | 38.0 | 23.500 | H |
| 8935.000 | 34.8 | -26.7 | 38.0 | 23.500 | V |

**Charging Mode/Peak detector**

| Frequency(MHz) | Result(dBμV/m) | $G_{PL}$ (dB) | $G_A$ (dB/m) | $P_{Mea}$(dBμV) | Polarity |
|---|---|---|---|---|---|
| 9716.800 | 47.6 | -24.5 | 38.0 | 34.100 | H |
| 9665.200 | 47.4 | -25.4 | 38.0 | 34.800 | V |
| 9674.200 | 47.4 | -24.5 | 38.0 | 33.900 | V |
| 9665.800 | 47.1 | -25.4 | 38.0 | 34.500 | V |
| 9768.100 | 47.1 | -24.8 | 38.0 | 33.900 | H |
| 8897.500 | 47.1 | -26.6 | 38.0 | 35.700 | V |

**Measurement results for Set.4**:

**Charging Mode/Average detector**

| Frequency(MHz) | Result(dBμV/m) | $G_{PL}$ (dB) | $G_A$ (dB/m) | $P_{Mea}$(dBμV) | Polarity |
|---|---|---|---|---|---|
| 8940.700 | 35.0 | -26.7 | 38.0 | 23.700 | V |
| 8939.500 | 35.0 | -26.7 | 38.0 | 23.700 | V |
| 8922.100 | 35.0 | -26.6 | 38.0 | 23.600 | H |
| 8953.000 | 34.9 | -26.7 | 38.0 | 23.600 | H |
| 8928.400 | 34.9 | -26.7 | 38.0 | 23.600 | H |
| 9856.900 | 34.8 | -24.8 | 38.0 | 21.600 | V |

**Charging Mode/Peak detector**

| Frequency(MHz) | Result(dBμV/m) | $G_{PL}$ (dB) | $G_A$ (dB/m) | $P_{Mea}$(dBμV) | Polarity |
|---|---|---|---|---|---|
| 9605.200 | 47.7 | -25.4 | 38.0 | 35.100 | V |
| 9810.700 | 47.4 | -24.8 | 38.0 | 34.200 | V |
| 9667.900 | 47.3 | -24.5 | 38.0 | 33.800 | V |
| 9716.500 | 47.3 | -24.5 | 38.0 | 33.800 | H |
| 9711.100 | 47.2 | -24.5 | 38.0 | 33.700 | H |
| 9145.900 | 47.2 | -26.1 | 38.4 | 34.900 | V |

**Measurement results for Set.5:**

**USB Mode/Average detector**

| Frequency(MHz) | Result(dBμV/m) | $G_{PL}$ (dB) | $G_A$ (dB/m) | $P_{Mea}$(dBμV) | Polarity |
|---|---|---|---|---|---|
| 9310.600 | 35.1 | -26.3 | 38.4 | 23.000 | H |
| 9356.800 | 35.0 | -26.3 | 38.4 | 22.900 | V |
| 9365.200 | 34.9 | -26.3 | 38.4 | 22.800 | V |
| 9378.700 | 34.9 | -26.3 | 38.4 | 22.800 | V |
| 9970.000 | 34.9 | -24.2 | 38.0 | 21.100 | V |
| 9974.500 | 34.9 | -24.2 | 38.0 | 21.100 | H |

**USB Mode/Peak detector**

| Frequency(MHz) | Result(dBμV/m) | $G_{PL}$ (dB) | $G_A$ (dB/m) | $P_{Mea}$(dBμV) | Polarity |
|---|---|---|---|---|---|
| 8980.000 | 47.8 | -26.7 | 38.0 | 36.500 | H |
| 9321.100 | 47.7 | -26.3 | 38.4 | 35.600 | V |
| 9369.400 | 47.5 | -26.3 | 38.4 | 35.400 | V |
| 9317.800 | 47.5 | -26.3 | 38.4 | 35.400 | H |
| 9959.200 | 47.4 | -24.9 | 38.0 | 34.300 | V |
| 9448.000 | 47.3 | -25.6 | 38.4 | 34.500 | H |

Note: The measurement results of Set.1 showed here are worst cases of the combinations of different batteries. The measurement results of Set.3, Set.4 and Set.5 showed here are worst cases of the combinations of different batteries and USB cables.

**Charging Mode, Set.1**

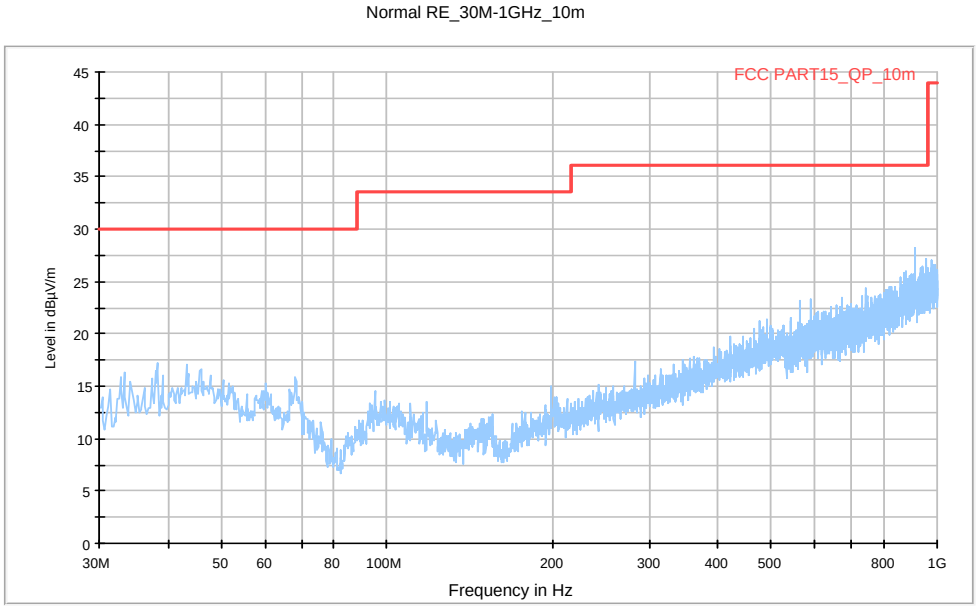



**Fig.1 Radiated Emission from 30MHz to 1GHz**

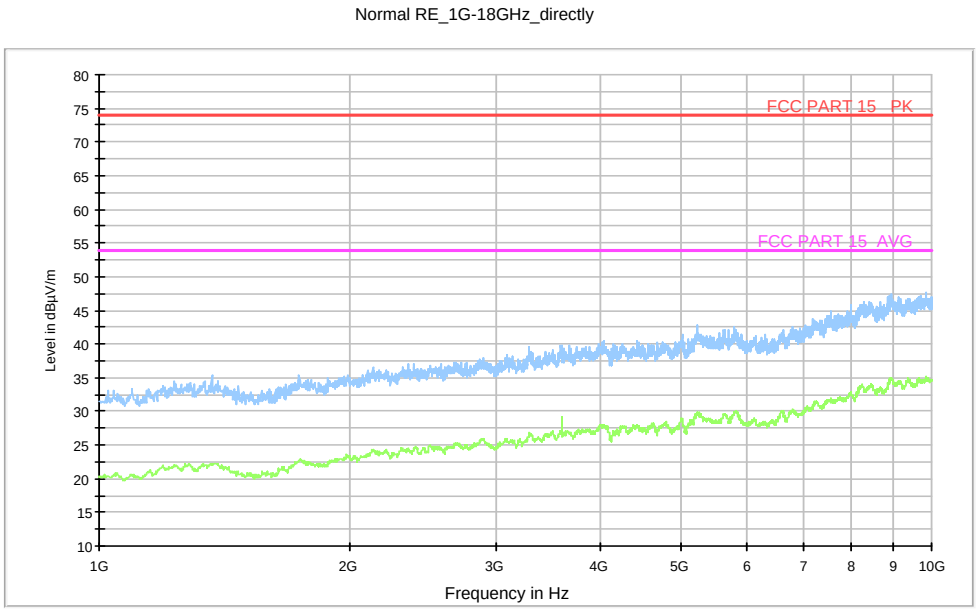



**Fig.2 Radiated Emission from 1GHz to 10GHz**

**Charging Mode, Set.3**

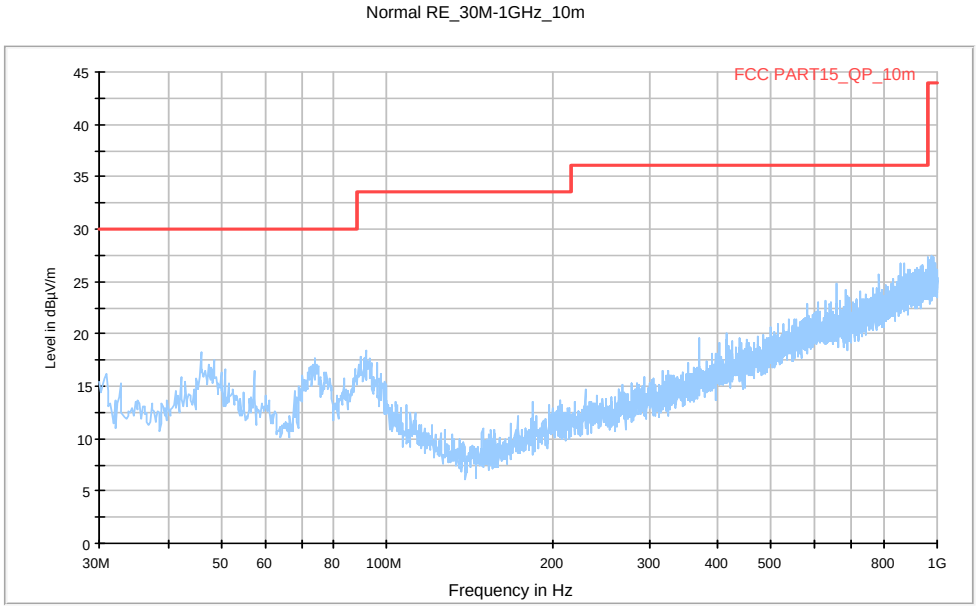



**Fig.3 Radiated Emission from 30MHz to 1GHz**

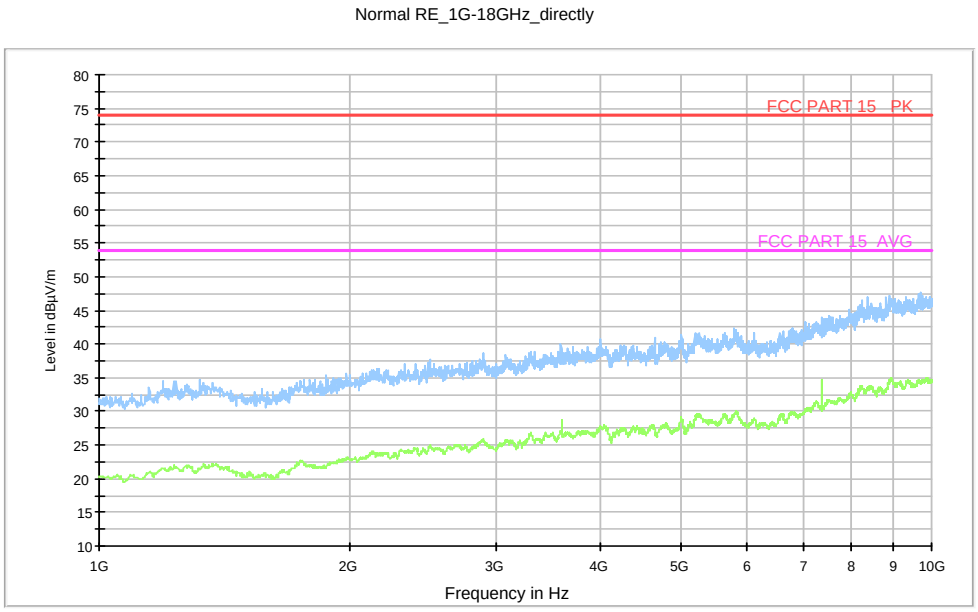



**Fig.4 Radiated Emission from 1GHz to 10GHz**

**Charging Mode, Set.4**

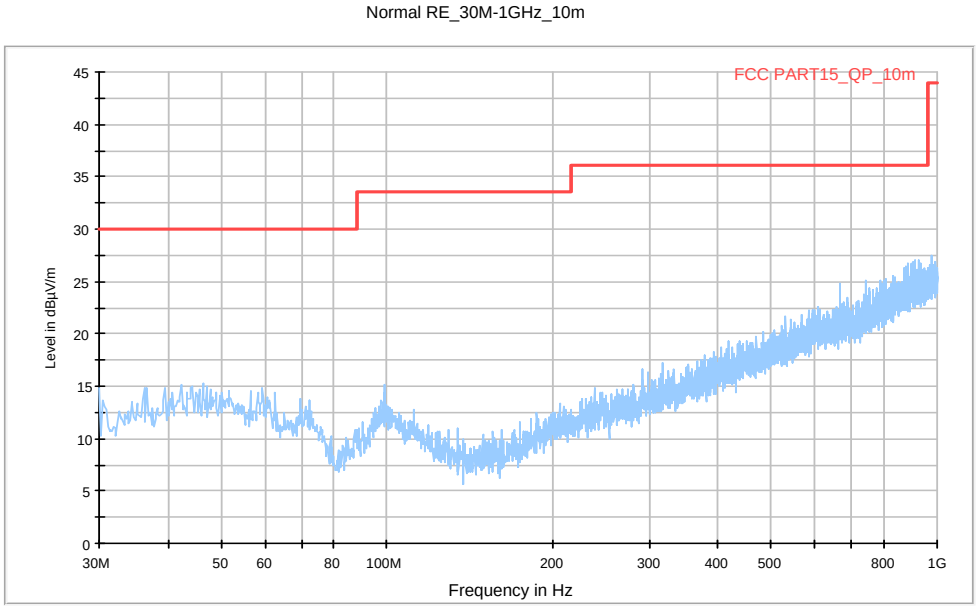



**Fig.5 Radiated Emission from 30MHz to 1GHz**

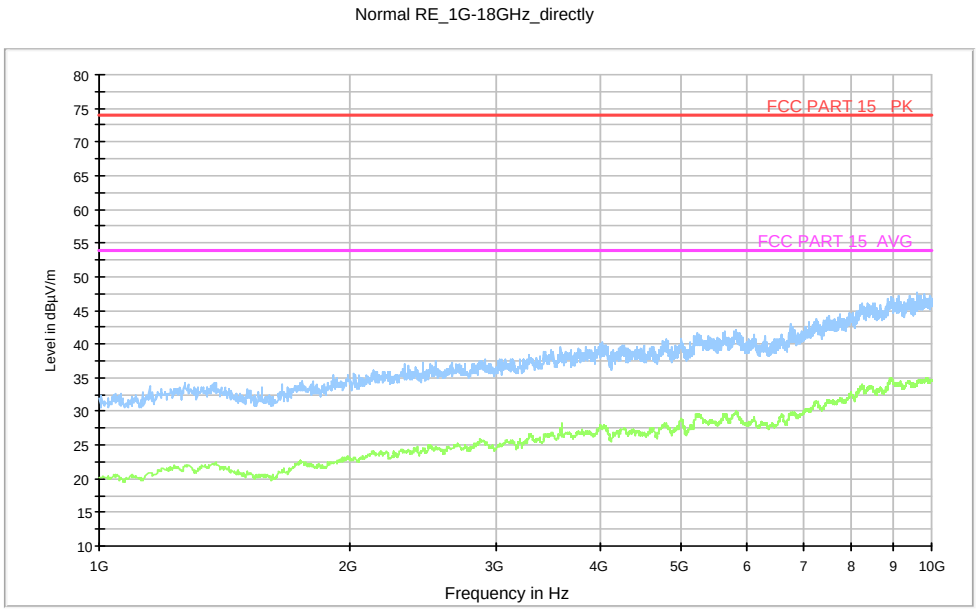



**Fig.6 Radiated Emission from 1GHz to 10GHz**

**USB Mode, Set.5**

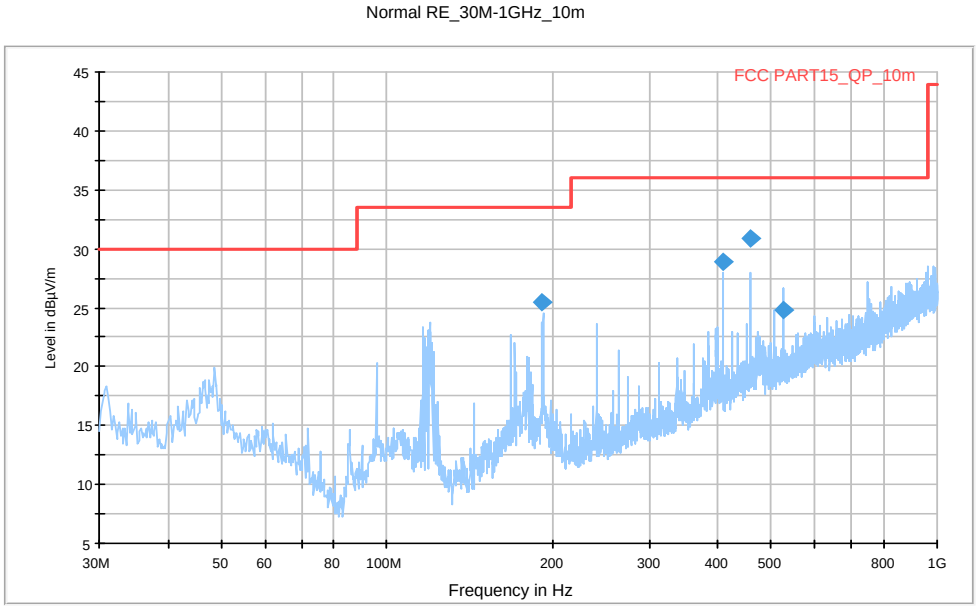



**Fig.7 Radiated Emission from 30MHz to 1GHz**

**Final Result 1**

| Frequency (MHz) | QuasiPeak (dBµV/m) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|---|---|---|---|---|---|---|---|
| 191.992500 | 25.5 | 395.0 | H | 182.0 | -13.6 | 8.0 | 33.5 |
| 408.542500 | 28.9 | 200.0 | H | 194.0 | -7.0 | 7.1 | 36.0 |
| 456.606000 | 30.8 | 175.0 | H | 201.0 | -6.0 | 5.2 | 36.0 |
| 524.979500 | 24.8 | 275.0 | V | 78.0 | -4.6 | 11.2 | 36.0 |

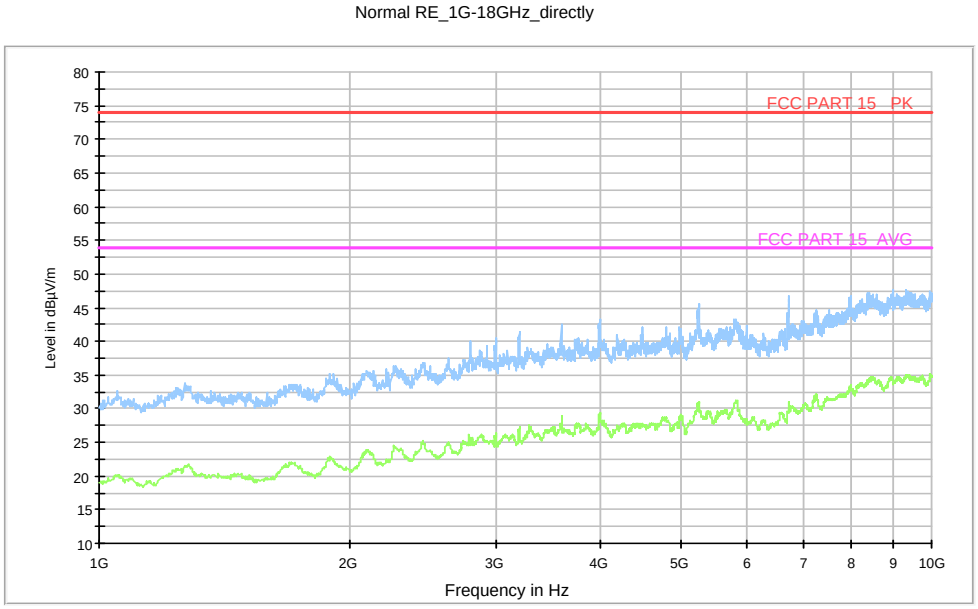



**Fig.8 Radiated Emission from 1GHz to 10GHz**

**A.2 Conducted Emission (§15.107(a))**

**A.2.1 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 7.2.

**A.2.2 EUT Operating Mode**

The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode. The model of the PC is DELL OPTIPLEX 380, and the serial number of the PC is 2X1YV2X. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

**A.2.3 Measurement Limit**

| Frequency of emission (MHz) | Conducted limit (dBμV) | |
|---|---|---|
| | 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 | | |

**A.2.4 Test Condition in charging mode**

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

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

### A.2.5 Measurement Results

Measurement uncertainty: *U*= 2.9 dB, *k*=2.

**Charging Mode, Set.1**

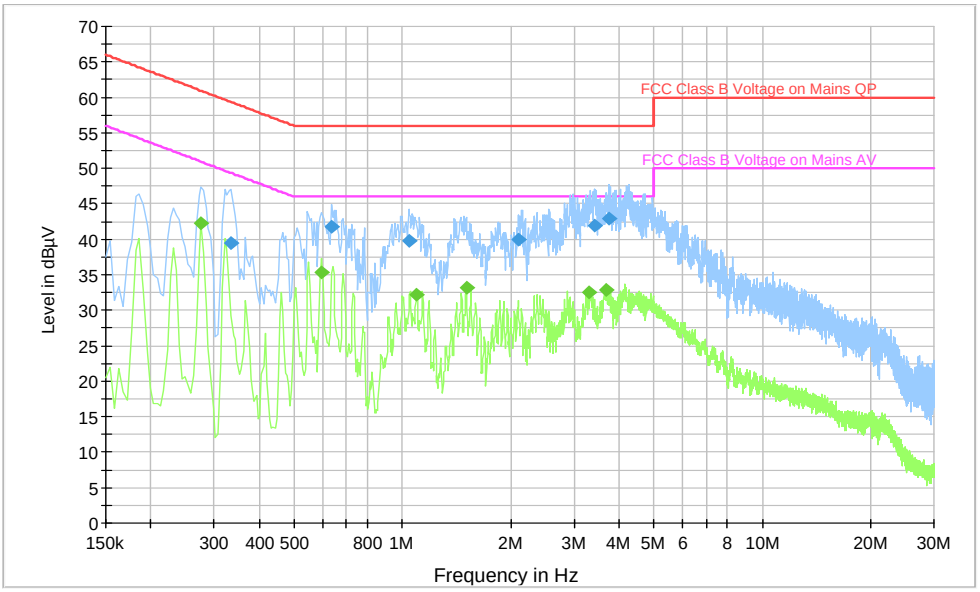



**Fig.9 Conducted Emission**

**Final Result 1**

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.334500 | 39.4 | GND | N | 19.8 | 19.9 | 59.3 |
| 0.636000 | 41.7 | GND | L1 | 19.8 | 14.3 | 56.0 |
| 1.041000 | 39.7 | GND | L1 | 19.7 | 16.3 | 56.0 |
| 2.103000 | 40.0 | GND | N | 19.6 | 16.0 | 56.0 |
| 3.421500 | 42.0 | GND | L1 | 19.7 | 14.0 | 56.0 |
| 3.745500 | 42.8 | GND | N | 19.7 | 13.2 | 56.0 |

**Final Result 2**

| Frequency (MHz) | CAverage (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.276000 | 42.3 | GND | L1 | 19.8 | 8.6 | 50.9 |
| 0.595500 | 35.3 | GND | L1 | 19.8 | 10.7 | 46.0 |
| 1.095000 | 32.1 | GND | N | 19.7 | 13.9 | 46.0 |
| 1.504500 | 33.3 | GND | N | 19.6 | 12.7 | 46.0 |
| 3.286500 | 32.5 | GND | N | 19.6 | 13.5 | 46.0 |
| 3.687000 | 32.9 | GND | N | 19.7 | 13.1 | 46.0 |

Note: The measurement results showed here are worst cases of the combinations of different batteries.

**Charging Mode, Set.3**

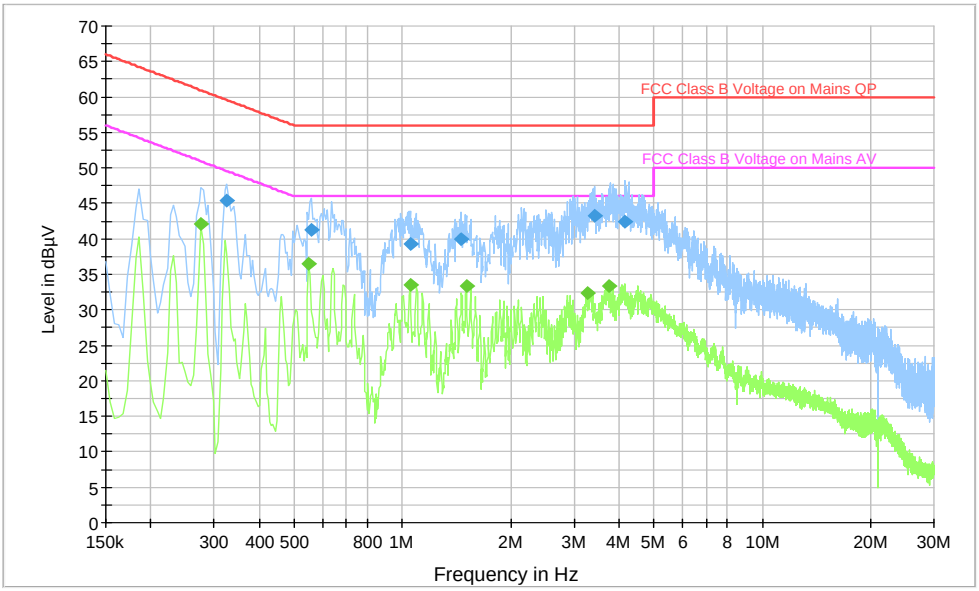



**Fig.10 Conducted Emission**

**Final Result 1**

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.325500 | 45.4 | GND | N | 19.8 | 14.2 | 59.6 |
| 0.559500 | 41.3 | GND | L1 | 19.8 | 14.7 | 56.0 |
| 1.050000 | 39.3 | GND | N | 19.7 | 16.7 | 56.0 |
| 1.455000 | 40.0 | GND | N | 19.7 | 16.0 | 56.0 |
| 3.430500 | 43.3 | GND | L1 | 19.7 | 12.7 | 56.0 |
| 4.159500 | 42.4 | GND | N | 19.7 | 13.6 | 56.0 |

**Final Result 2**

| Frequency (MHz) | CAverage (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.276000 | 42.2 | GND | N | 19.8 | 8.8 | 50.9 |
| 0.550500 | 36.6 | GND | L1 | 19.8 | 9.4 | 46.0 |
| 1.050000 | 33.6 | GND | N | 19.7 | 12.4 | 46.0 |
| 1.504500 | 33.3 | GND | N | 19.6 | 12.7 | 46.0 |
| 3.277500 | 32.3 | GND | N | 19.6 | 13.7 | 46.0 |
| 3.736500 | 33.3 | GND | L1 | 19.7 | 12.7 | 46.0 |

Note: The measurement results showed here are worst cases of the combinations of different batteries and USB cables.

**Charging Mode, Set.4**

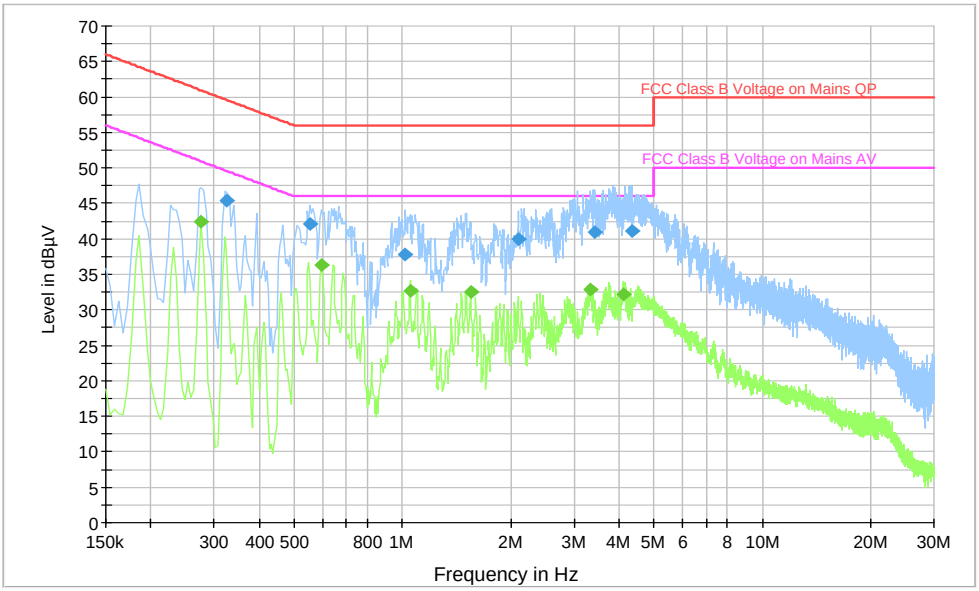



**Fig.11 Conducted Emission**

**Final Result 1**

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.325500 | 45.4 | GND | L1 | 19.8 | 14.2 | 59.6 |
| 0.555000 | 42.1 | GND | N | 19.8 | 13.9 | 56.0 |
| 1.018500 | 37.9 | GND | L1 | 19.7 | 18.1 | 56.0 |
| 2.098500 | 39.9 | GND | N | 19.6 | 16.1 | 56.0 |
| 3.412500 | 40.9 | GND | N | 19.7 | 15.1 | 56.0 |
| 4.348500 | 41.1 | GND | L1 | 19.7 | 14.9 | 56.0 |

**Final Result 2**

| Frequency (MHz) | CAverage (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.276000 | 42.4 | GND | L1 | 19.8 | 8.6 | 50.9 |
| 0.595500 | 36.3 | GND | L1 | 19.8 | 9.7 | 46.0 |
| 1.050000 | 32.8 | GND | N | 19.7 | 13.2 | 46.0 |
| 1.549500 | 32.6 | GND | L1 | 19.7 | 13.4 | 46.0 |
| 3.331500 | 32.9 | GND | N | 19.7 | 13.1 | 46.0 |
| 4.114500 | 32.2 | GND | L1 | 19.7 | 13.8 | 46.0 |

Note: The measurement results showed here are worst cases of the combinations of different batteries and USB cables.

**USB Mode, Set.5**

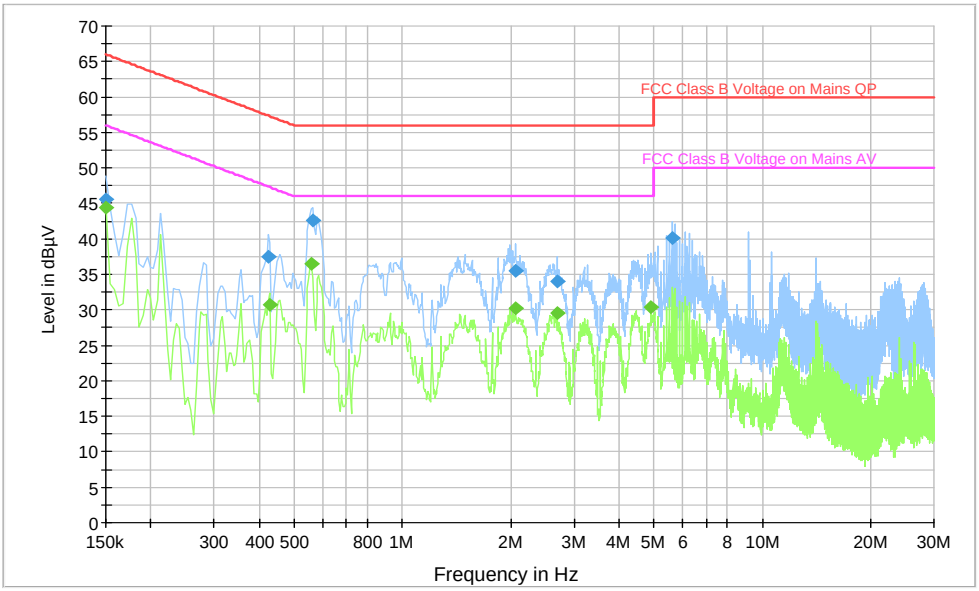



**Fig.12 Conducted Emission**

**Final Result 1**

| Frequency (MHz) | QuasiPeak (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.150000 | 45.6 | GND | N | 20.1 | 20.4 | 66.0 |
| 0.424500 | 37.5 | GND | L1 | 19.8 | 19.9 | 57.4 |
| 0.564000 | 42.5 | GND | N | 19.8 | 13.5 | 56.0 |
| 2.062500 | 35.5 | GND | N | 19.6 | 20.5 | 56.0 |
| 2.701500 | 34.0 | GND | L1 | 19.6 | 22.0 | 56.0 |
| 5.604000 | 40.1 | GND | L1 | 19.7 | 19.9 | 60.0 |

**Final Result 2**

| Frequency (MHz) | CAverage (dBµV) | PE | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.150000 | 44.5 | GND | N | 20.1 | 11.5 | 56.0 |
| 0.429000 | 30.8 | GND | N | 19.8 | 16.5 | 47.3 |
| 0.559500 | 36.4 | GND | N | 19.8 | 9.6 | 46.0 |
| 2.062500 | 30.3 | GND | L1 | 19.6 | 15.7 | 46.0 |
| 2.701500 | 29.6 | GND | N | 19.6 | 16.4 | 46.0 |
| 4.915500 | 30.4 | GND | N | 19.7 | 15.6 | 46.0 |

Note: The measurement results showed here are worst cases of the combinations of different batteries and USB cables.

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