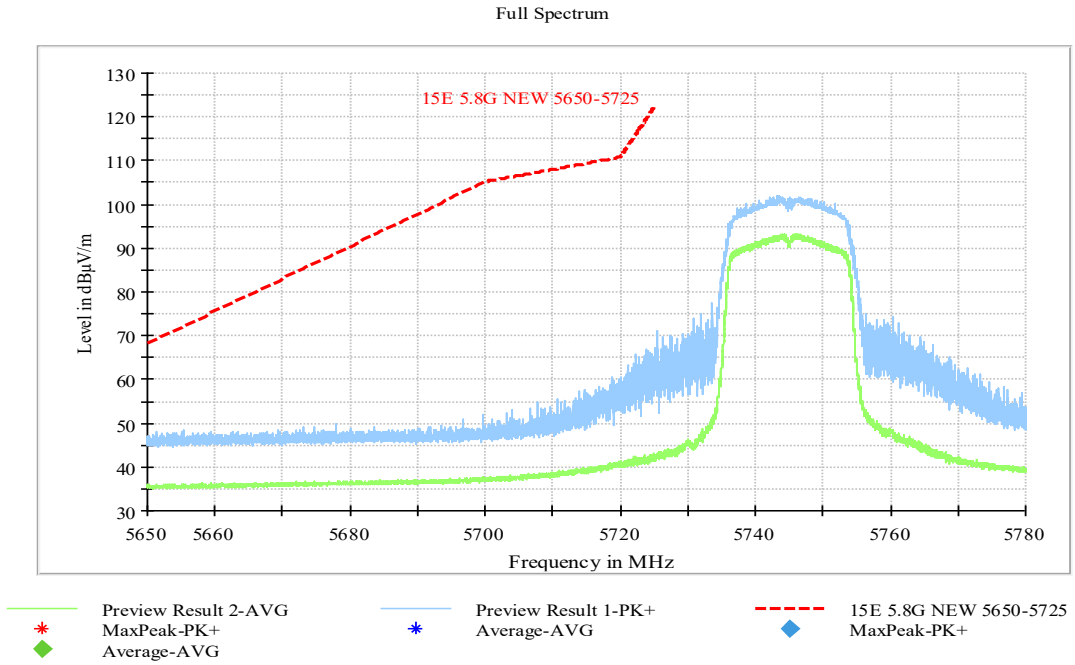



**Fig. 16 Band Edges (802.11ac-HT20, 5745MHz)**

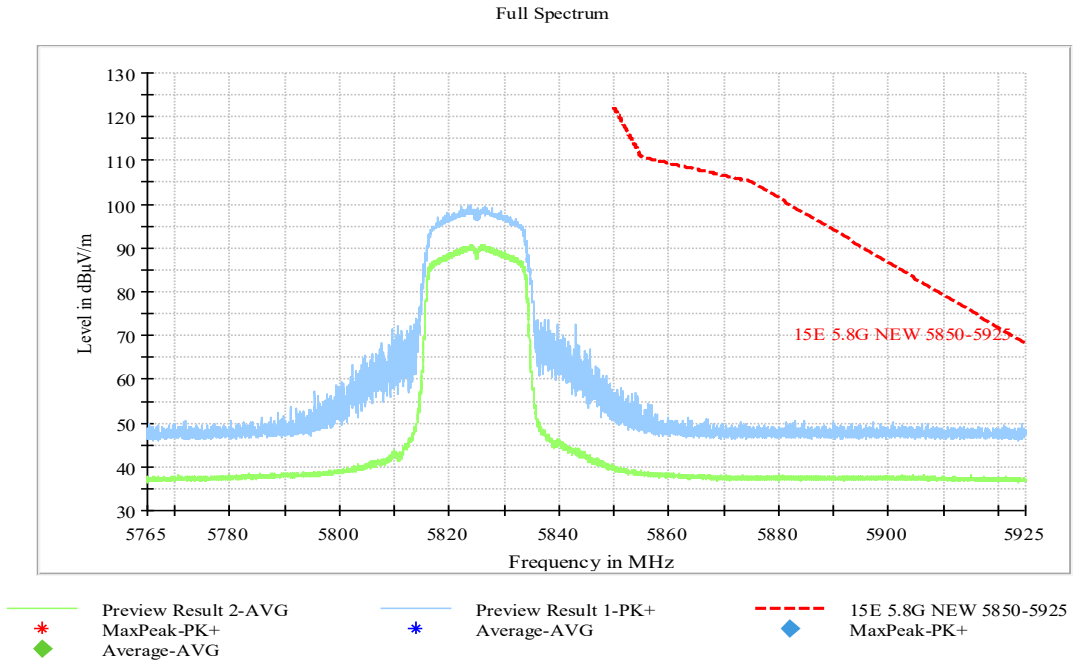



**Fig. 17 Band Edges (802.11ac-HT20, 5825MHz)**

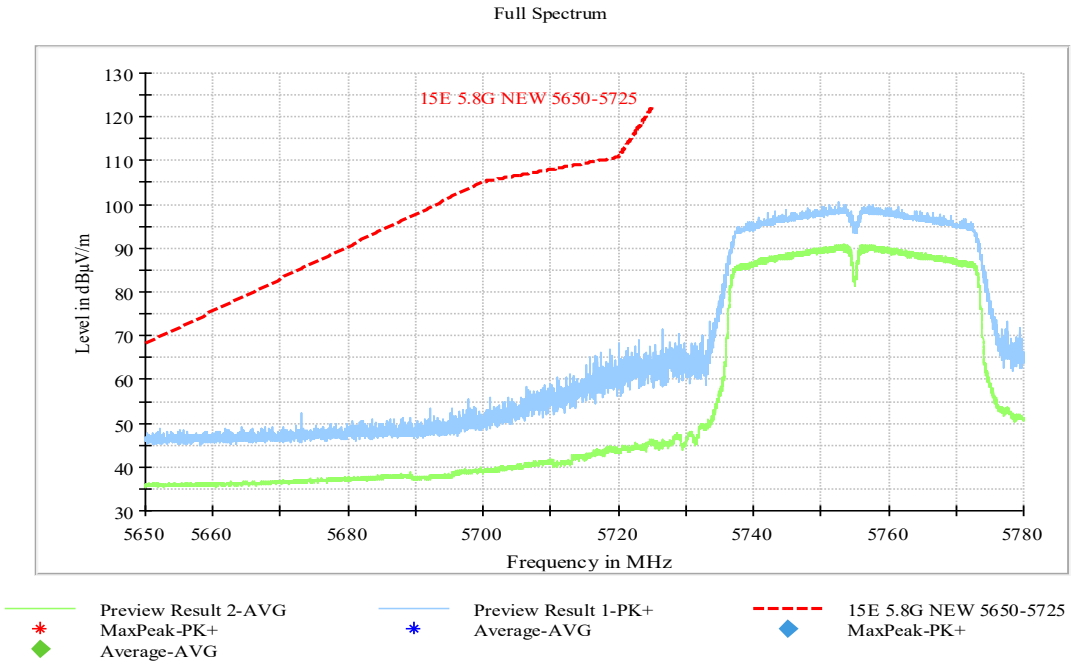



**Fig. 18 Band Edges (802.11ac-HT40, 5755MHz)**

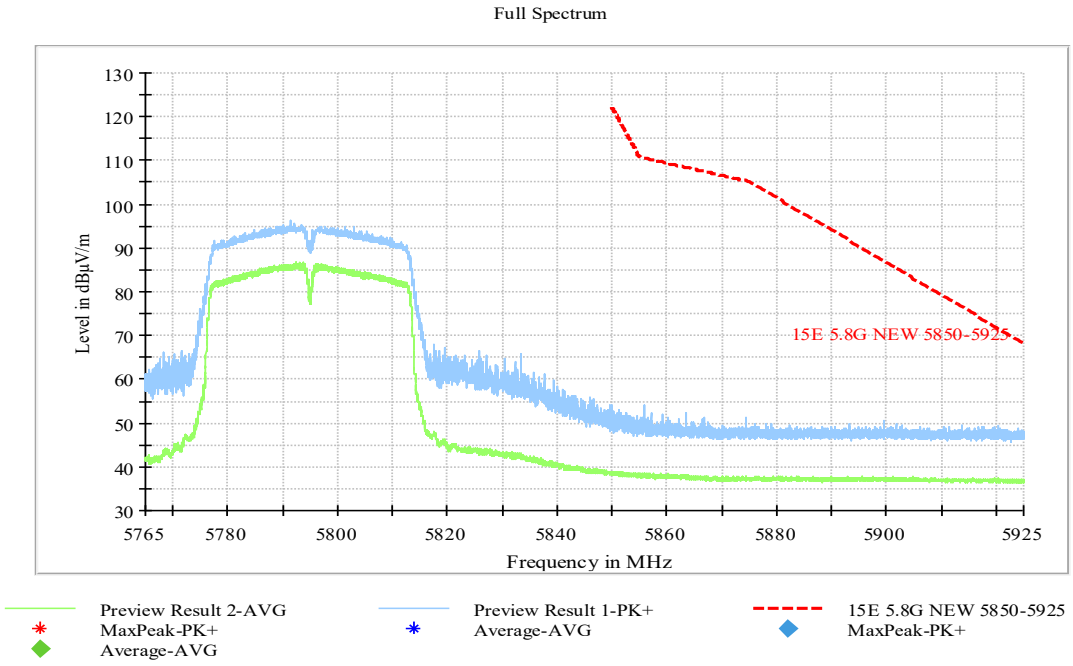



**Fig. 19 Band Edges (802.11ac-HT40, 5795MHz)**

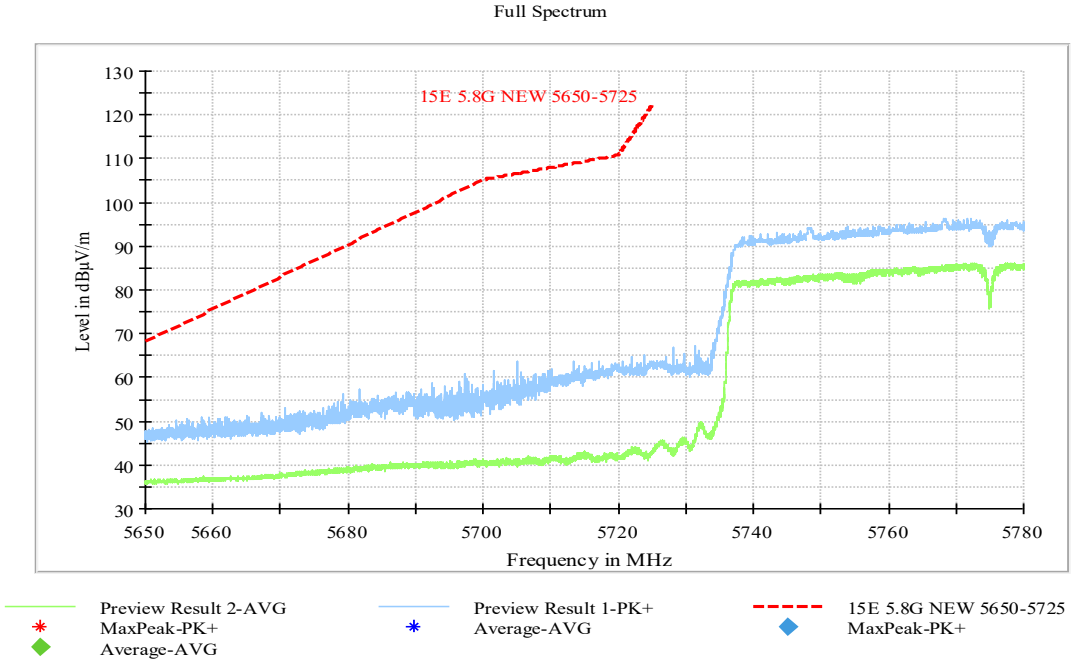



**Fig. 20 Band Edges (802.11ac-HT80, 5775MHz)**

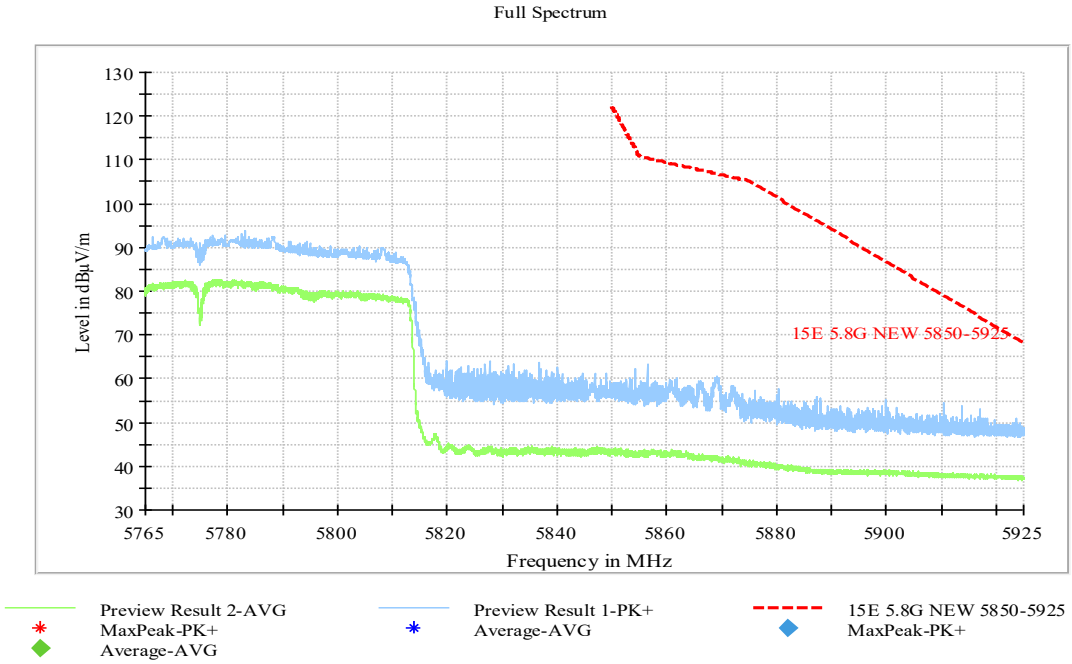



**Fig. 21 Band Edges (802.11ac-HT80, 5775MHz)**

## B.7. AC Powerline Conducted Emission

**Test Condition:**

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

**Measurement uncertainty:**

Expanded measurement uncertainty for this test item is U =3.08dB, k=2.

**Measurement Result and limit:**

WLAN (Quasi-peak Limit)

| Frequency range (MHz) | Quasi-peak Limit (dBμV) | Result (dBμV) | | Conclusion |
|---|---|---|---|---|
| | | With charger | | |
| | | 802.11a | Idle | |
| 0.15 to 0.5 | 66 to 56 | Fig.22 | Fig.23 | P |
| 0.5 to 5 | 56 | | | |
| 5 to 30 | 60 | | | |
| NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz. | | | | |

WLAN (Average Limit)

| Frequency range (MHz) | Average Limit (dBμV) | Result (dBμV) | | Conclusion |
|---|---|---|---|---|
| | | With charger | | |
| | | 802.11a | Idle | |
| 0.15 to 0.5 | 56 to 46 | Fig.22 | Fig.23 | P |
| 0.5 to 5 | 46 | | | |
| 5 to 30 | 50 | | | |
| NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz. | | | | |

The measurement is made according to ANSI C63.10 .

**Conclusion: PASS**

**Test graphs as below:**

**Traffic:**

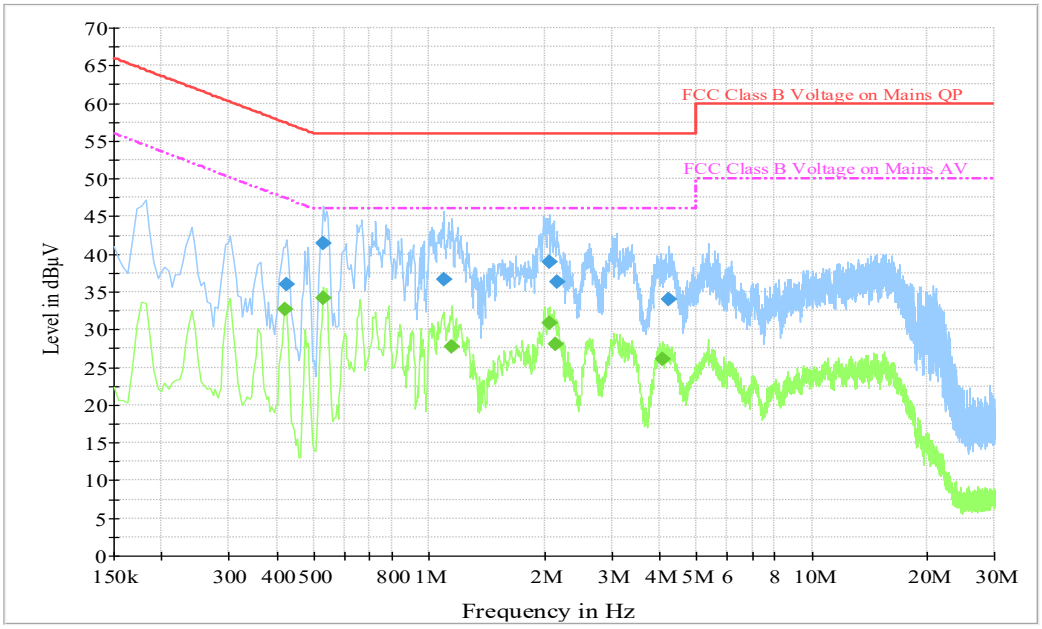



**Fig. 22 AC Power line Conducted Emission-802.11a**

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

## Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|---|
| 0.424500 | 35.9 | 1000.0 | 9.000 | L1 | 19.6 | 21.4 | 57.4 |
| 0.528000 | 41.5 | 1000.0 | 9.000 | L1 | 19.6 | 14.5 | 56.0 |
| 1.090500 | 36.6 | 1000.0 | 9.000 | L1 | 19.6 | 19.4 | 56.0 |
| 2.062500 | 39.0 | 1000.0 | 9.000 | L1 | 19.5 | 17.0 | 56.0 |
| 2.152500 | 36.3 | 1000.0 | 9.000 | L1 | 19.6 | 19.7 | 56.0 |
| 4.245000 | 34.0 | 1000.0 | 9.000 | L1 | 19.8 | 22.0 | 56.0 |

## Final Result 2

| Frequency (MHz) | Average (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|---|
| 0.420000 | 32.6 | 1000.0 | 9.000 | L1 | 19.6 | 14.8 | 47.4 |
| 0.528000 | 34.2 | 1000.0 | 9.000 | L1 | 19.6 | 11.8 | 46.0 |
| 1.149000 | 27.7 | 1000.0 | 9.000 | L1 | 19.6 | 18.3 | 46.0 |
| 2.062500 | 30.8 | 1000.0 | 9.000 | L1 | 19.5 | 15.2 | 46.0 |
| 2.139000 | 28.1 | 1000.0 | 9.000 | L1 | 19.5 | 17.9 | 46.0 |
| 4.069500 | 26.1 | 1000.0 | 9.000 | L1 | 19.7 | 19.9 | 46.0 |

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

**Idle:**

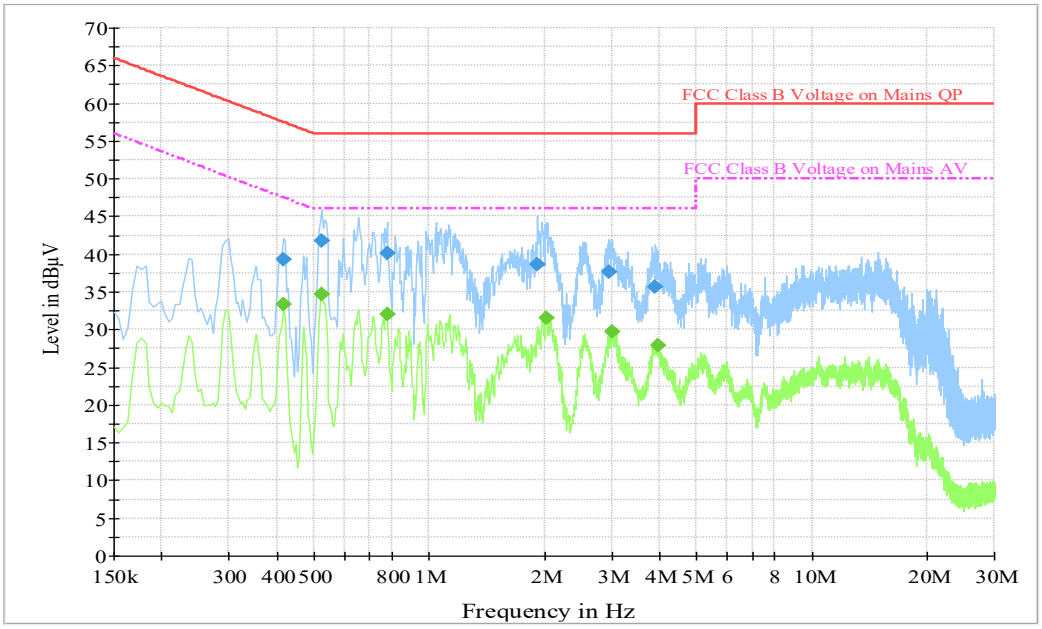



**Fig. 23 AC Power line Conducted Emission-Idle**

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

## Final Result 1

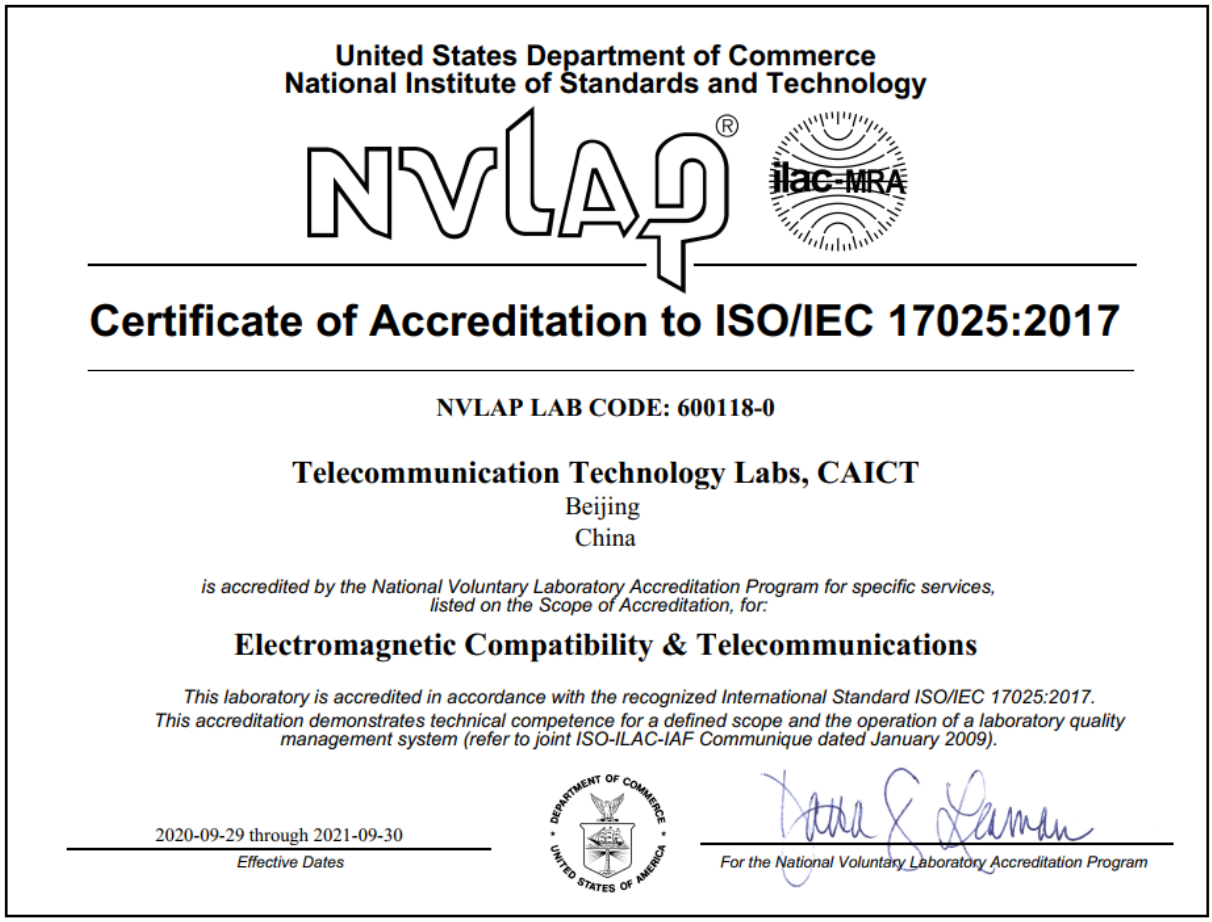
| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|---|
| 0.415500 | 39.3 | 1000.0 | 9.000 | L1 | 19.6 | 18.2 | 57.5 |
| 0.523500 | 41.8 | 1000.0 | 9.000 | L1 | 19.6 | 14.2 | 56.0 |
| 0.775500 | 40.2 | 1000.0 | 9.000 | L1 | 19.6 | 15.8 | 56.0 |
| 1.918500 | 38.6 | 1000.0 | 9.000 | L1 | 19.5 | 17.4 | 56.0 |
| 2.944500 | 37.6 | 1000.0 | 9.000 | L1 | 19.6 | 18.4 | 56.0 |
| 3.907500 | 35.6 | 1000.0 | 9.000 | L1 | 19.7 | 20.4 | 56.0 |

## Final Result 2

| Frequency (MHz) | Average (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|---|
| 0.415500 | 33.3 | 1000.0 | 9.000 | L1 | 19.6 | 14.3 | 47.5 |
| 0.523500 | 34.7 | 1000.0 | 9.000 | L1 | 19.6 | 11.3 | 46.0 |
| 0.775500 | 32.0 | 1000.0 | 9.000 | L1 | 19.6 | 14.0 | 46.0 |
| 2.026500 | 31.6 | 1000.0 | 9.000 | L1 | 19.5 | 14.4 | 46.0 |
| 3.007500 | 29.7 | 1000.0 | 9.000 | L1 | 19.6 | 16.3 | 46.0 |
| 3.961500 | 27.9 | 1000.0 | 9.000 | L1 | 19.7 | 18.1 | 46.0 |

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

## ANNEX C: Accreditation Certificate



United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ilac-MRA

**Certificate of Accreditation to ISO/IEC 17025:2017**

**NVLAP LAB CODE: 600118-0**

**Telecommunication Technology Labs, CAICT**
Beijing
China

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:*

**Electromagnetic Compatibility & Telecommunications**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2020-09-29 through 2021-09-30
*Effective Dates*

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

*For the National Voluntary Laboratory Accreditation Program*

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