

Report No.: SUHR/2022/1000607
Rev.: 01
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TEST REPORT

Application No.: HR/2022/10006
Applicant: SEUIC Technologies Co., Ltd.
Address of Applicant: NO.15 Xinghuo Road,Nanjing New & High Technology Industry Development Zone,210061,Nanjing City,Jiangsu Province,China
Manufacturer: SEUIC Technologies Co., Ltd.
Address of Manufacturer: NO.15 Xinghuo Road,Nanjing New & High Technology Industry Development Zone,210061,Nanjing City,Jiangsu Province,China
EUT Description: Portable Data Collection Terminal
Model No.: CRUISE2 5GA
Trade Mark: CRUISE
FCC ID: 2AC68-CRUISE25GA
Standard(s): 47 CFR Part 15, Subpart B
Date of Receipt: 2022/2/7
Date of Test: 2022/2/16 to 2022/2/18
Date of Issue: 2022/2/21

Test Result: **Pass***

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Panta Sun Wireless Laboratory Manager

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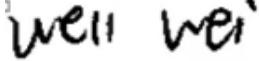
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| Revision Record | | | | |
|-----------------|---------|-----------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2022/2/21 | | Original |
| | | | | |
| | | | | |

| | | |
|-------------------------------|--|---|
| Prepared By | |  |
| <hr/> (Weller Liu) / Engineer | | |
| Checked By | |  |
| <hr/> (Well Wei) / Reviewer | | |



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Test Summary

| Emission Part | | | | |
|---|---------------------------|-----------------|-------------|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Emissions at Mains Terminals (150kHz-30MHz) | 47 CFR Part 15, Subpart B | ANSI C63.4:2014 | Class B | Pass |
| Radiated Emissions (30MHz-1GHz) | 47 CFR Part 15, Subpart B | ANSI C63.4:2014 | Class B | Pass |
| Radiated Emissions (above 1GHz) | 47 CFR Part 15, Subpart B | ANSI C63.4:2014 | Class B | Pass |

| Internal Source | Upper Frequency |
|--------------------|--|
| Below 1.705MHz | 30MHz |
| 1.705MHz to 108MHz | 1GHz |
| 108MHz to 500MHz | 2GHz |
| 500MHz to 1GHz | 5GHz |
| Above 1GHz | 5th harmonic of the highest frequency or 40GHz, whichever is lower |

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1 General Information

| | | | |
|-------------------|-----------------------------------|-----------|-----------|
| Product Name: | Portable Data Collection Terminal | | |
| Model No. (EUT): | CRUISE2 5GA | | |
| Trade Mark: | CRUISE | | |
| Hardware Version: | MC902A-4A_MB_PCBA_V1.01-A4A | | |
| Software Version: | D740_V1.0.76 | | |
| Frequency Bands: | Band | Tx (MHz) | Rx (MHz) |
| | GSM850 | 824~849 | 869~894 |
| | GSM1900 | 1850~1910 | 1930~1990 |
| | WCDMA Band II | 1850~1910 | 1930~1990 |
| | WCDMA Band IV | 1710~1755 | 2110~2155 |
| | WCDMA Band V | 824~849 | 869~894 |
| | LTE Band 2 | 1850~1910 | 1930~1990 |
| | LTE Band 4 | 1710~1755 | 2110~2155 |
| | LTE Band 5 | 824~849 | 869~894 |
| | LTE Band 7 | 2500~2570 | 2620~2690 |
| | LTE Band 12 | 699~716 | 729~746 |
| | LTE Band 13 | 777~787 | 746~756 |
| | LTE Band 17 | 704~716 | 734~746 |
| | LTE Band 25 | 1850~1915 | 1930~1995 |
| | LTE Band 26 | 814~849 | 859~894 |
| | LTE Band 38 | 2570~2620 | 2570~2620 |
| | LTE Band 41 | 2496~2690 | 2496~2690 |
| | LTE Band 66 | 1710~1780 | 2110~2200 |
| | NR Band n2 | 1850~1910 | 1930~1990 |
| | NR Band n5 | 824~849 | 869~894 |
| | NR Band n41 | 2496~2690 | 2496~2690 |
| | NR Band n66 | 1710~1780 | 2110~2180 |
| | NR Band n71 | 663~698 | 617~652 |
| | NR Band n77 | 3700~3980 | 3700~3980 |
| | | 3450~3550 | 3450~3550 |
| | NR Band n78 | 3700~3800 | 3700~3800 |
| | | 3450~3550 | 3450~3550 |

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| | | |
|--|-----------|-----------|
| Wi-Fi 2.4G | 2412~2462 | 2412~2462 |
| Bluetooth | 2402~2480 | 2402~2480 |
| Wi-Fi 5G | 5150~5850 | 5150~5850 |
| NFC | 13.56 | |
| GNSS (GPS+Glonass+ Beidou+Galileo) | 1559~1610 | 1164~1215 |

Accessory:

| Item No. | Mode No. | Manufacturer | Description |
|-----------------|---------------------|--|--|
| AC Adapter (US) | TPA-10R120150UU01 | Shenzhen Tianyin Electronics Co.,Ltd. | INPUT: 100-240V-50/60Hz 0.6A Output: 3.6-6.0VDC 3.0A/6.0- 9.0VDC 2.0A/9.0-12.0VDC 1.5A |
| Battery | BT01740CRUISE | DONGGUAN BOB ELECTRONICS CO.,LTD. | 3.85 Vdc, 5000mAh Type: Li-ion Polymer battery pack |
| USB Cable | D710S_TYPEC_WIRE_V1 | ACH ELECTRONICS CO., LTD | 1.0meter, non-shielded cable, with w/o ferrite core |

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1.1 Description of Support Units

| Description | Manufacturer | Model No. | Inventory No. |
|-------------|------------------------------|------------------|---------------|
| Router | Smaivwave Technology Co.,Ltd | SRT 421 | SUWI-04-34-01 |
| Computer | Lenovo | T14 | SUWI-03-33-04 |
| Mouse | Lenovo | 3D optical Mouse | SUWI-03-33-05 |
| Adaptor | Huawei | HW-050200C02 | SUWI-03-33-06 |

1.2 Test Location

All tests were performed at:

| | |
|----------------|--|
| Company: | SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. |
| Address: | South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone |
| Post code: | 215000 |
| Test engineer: | Weller Liu, King-p Li, Nature Shen, Tizzy Song |

1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

1.4 Deviation from Standards

None

1.5 Abnormalities from Standard Conditions

None

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2 Emission Test Results

2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

| | |
|-------------------|---|
| Test Requirement: | 47 CFR Part 15, Subpart B |
| Test Method: | ANSI C63.4:2014 |
| Frequency Range: | 150kHz to 30MHz |
| Limit: | |
| 0.15M-0.5MHz | 66dB(μ V)-56dB(μ V) quasi-peak, 56dB(μ V)-46dB(μ V) average |
| 0.5M-5MHz | 56dB(μ V) quasi-peak, 46dB(μ V) average |
| 5M-30MHz | 60dB(μ V) quasi-peak, 50dB(μ V) average |
| Detector: | Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz |

2.1.1 E.U.T. Operation

Operating Environment:

| Temperature: 22~23°C | Humidity: 44~46% RH | Atmospheric Pressure: 101.0 kPa |
|---|---|---------------------------------|
| Pretest these modes to find the worst case: | a: Adaptor+USB+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850 b: Adaptor+USB+BT Idle+WLAN(5G) +Camera (Front)+WCDMA 5 c: Adaptor+USB+BT Idle+WLAN(2.4G)+MP4+LTE Band 5 d: Adaptor+USB+BT Idle+WLAN(5G) +NFC On+LTE Band 12 e: Adaptor+USB+BT Idle+WLAN(2.4G)+Scan Code+LTE Band 13 f: Adaptor+USB+BT Idle+WLAN(5G) +GPS RX+LTE Band 17 g: Adaptor+USB+BT Idle+WLAN(2.4G)+GPS RX+LTE Band 26 h: Transfer data between the EUT and the PC+USB+WLAN(5G) +GPS RX SA Band 5 i: Transfer data between the EUT and the PC+USB+WLAN (2.4G) +GPS RX SA Band 71 | |
| The worst case for final test: | d: Adaptor+USB+BT Idle+WLAN(5G) +NFC On+LTE Band 12 i: Transfer data between the EUT and the PC+USB+WLAN (2.4G) +GPS RX SA Band 71 | |

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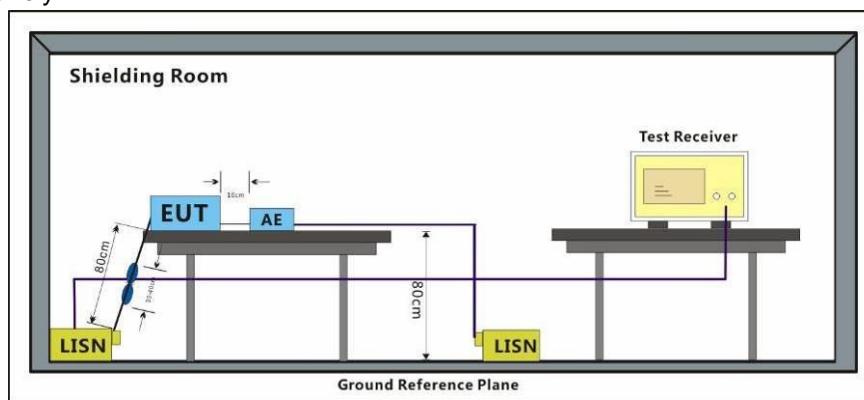
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2.1.2 Test Setup Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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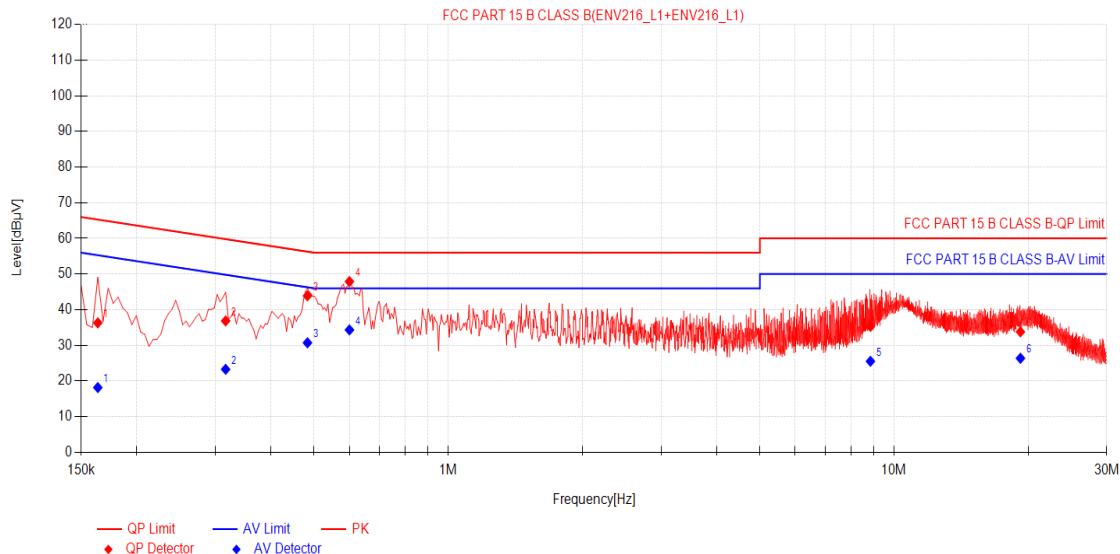
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Mode :d; Line:Live Line



| Final Data List | | | | | | | | | |
|-----------------|-----------------|-------------|-----------------------|-----------------------|----------------|-----------------------|-----------------------|----------------|---------|
| NO. | Frequency [MHz] | Factor [dB] | QP Value [dB μ V] | QP Limit [dB μ V] | QP Margin [dB] | AV Value [dB μ V] | AV Limit [dB μ V] | AV Margin [dB] | Verdict |
| 1 | 0.1635 | 10.69 | 36.31 | 65.28 | 28.97 | 18.17 | 55.28 | 37.11 | PASS |
| 2 | 0.3165 | 10.58 | 36.86 | 59.80 | 22.94 | 23.28 | 49.80 | 26.52 | PASS |
| 3 | 0.4830 | 10.60 | 43.91 | 56.29 | 12.38 | 30.72 | 46.29 | 15.57 | PASS |
| 4 | 0.6000 | 10.50 | 47.91 | 56.00 | 8.09 | 34.34 | 46.00 | 11.66 | PASS |
| 5 | 8.8530 | 10.66 | 35.32 | 60.00 | 24.68 | 25.52 | 50.00 | 24.48 | PASS |
| 6 | 19.2165 | 10.43 | 33.78 | 60.00 | 26.22 | 26.37 | 50.00 | 23.63 | PASS |

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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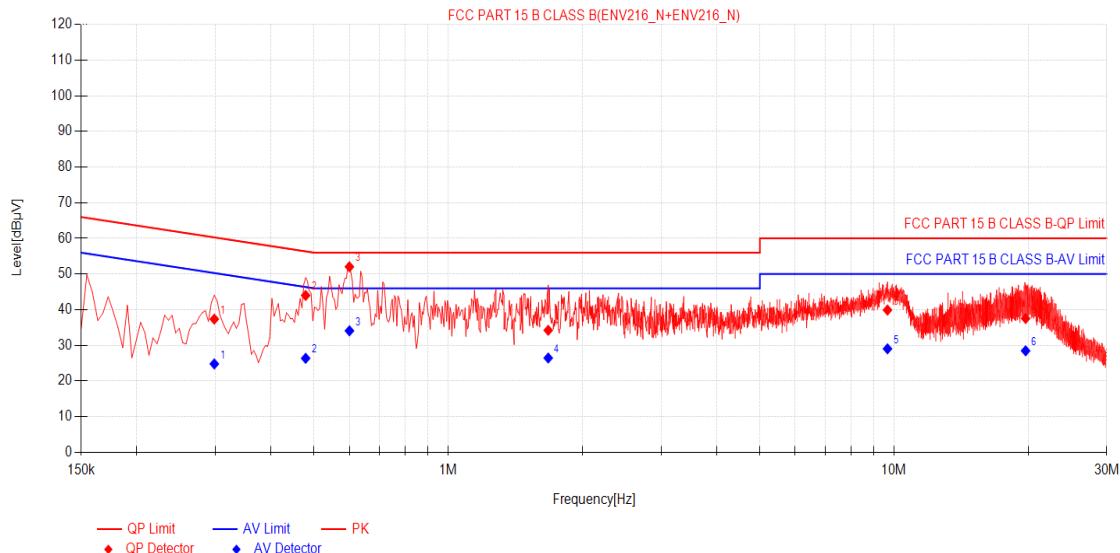
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Rev.: 01

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Mode :d; Line:Neutral Line



Final Data List

| NO. | Frequency [MHz] | Factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | Verdict |
|-----|-----------------|-------------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|---------|
| 1 | 0.2985 | 10.76 | 37.37 | 60.28 | 22.91 | 24.79 | 50.28 | 25.49 | PASS |
| 2 | 0.4785 | 10.81 | 44.00 | 56.37 | 12.37 | 26.37 | 46.37 | 20.00 | PASS |
| 3 | 0.6000 | 10.68 | 52.04 | 56.00 | 3.96 | 34.09 | 46.00 | 11.91 | PASS |
| 4 | 1.6755 | 10.77 | 34.23 | 56.00 | 21.77 | 26.45 | 46.00 | 19.55 | PASS |
| 5 | 9.6675 | 10.66 | 39.90 | 60.00 | 20.10 | 29.04 | 50.00 | 20.96 | PASS |
| 6 | 19.7340 | 10.41 | 37.54 | 60.00 | 22.46 | 28.47 | 50.00 | 21.53 | PASS |

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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Wireless Laboratory

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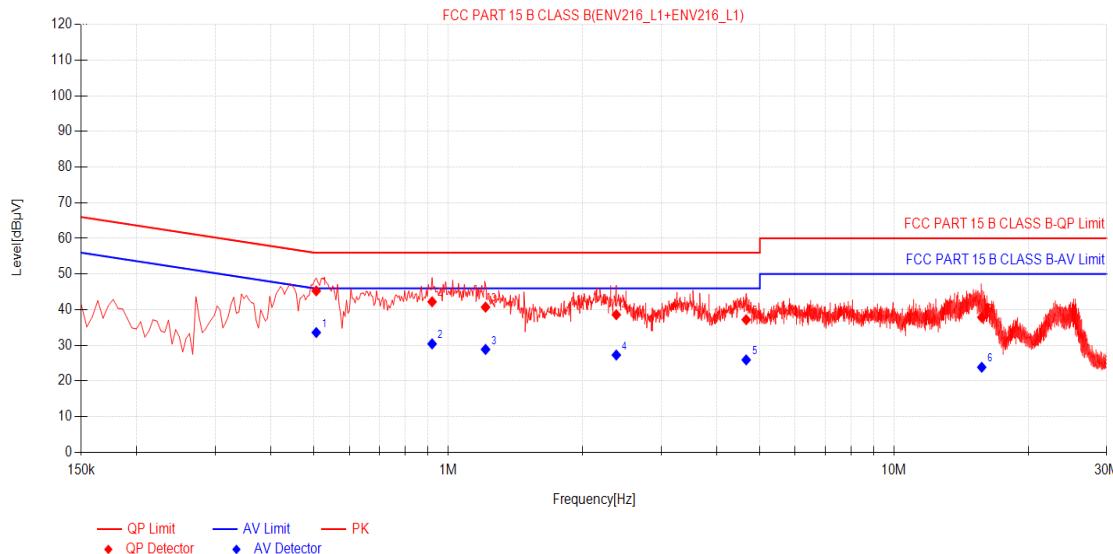
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Mode :i; Line:Live Line



Final Data List

| NO. | Frequency [MHz] | Factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | Verdict |
|-----|-----------------|-------------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|---------|
| 1 | 0.5055 | 10.61 | 45.27 | 56.00 | 10.73 | 33.59 | 46.00 | 12.41 | PASS |
| 2 | 0.9195 | 10.58 | 42.22 | 56.00 | 13.78 | 30.42 | 46.00 | 15.58 | PASS |
| 3 | 1.2120 | 10.78 | 40.73 | 56.00 | 15.27 | 28.86 | 46.00 | 17.14 | PASS |
| 4 | 2.3820 | 10.66 | 38.58 | 56.00 | 17.42 | 27.29 | 46.00 | 18.71 | PASS |
| 5 | 4.6590 | 10.67 | 37.19 | 56.00 | 18.81 | 25.93 | 46.00 | 20.07 | PASS |
| 6 | 15.7335 | 10.51 | 37.86 | 60.00 | 22.14 | 23.85 | 50.00 | 26.15 | PASS |

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Reading + Factor(Lisn factor + cable loss).

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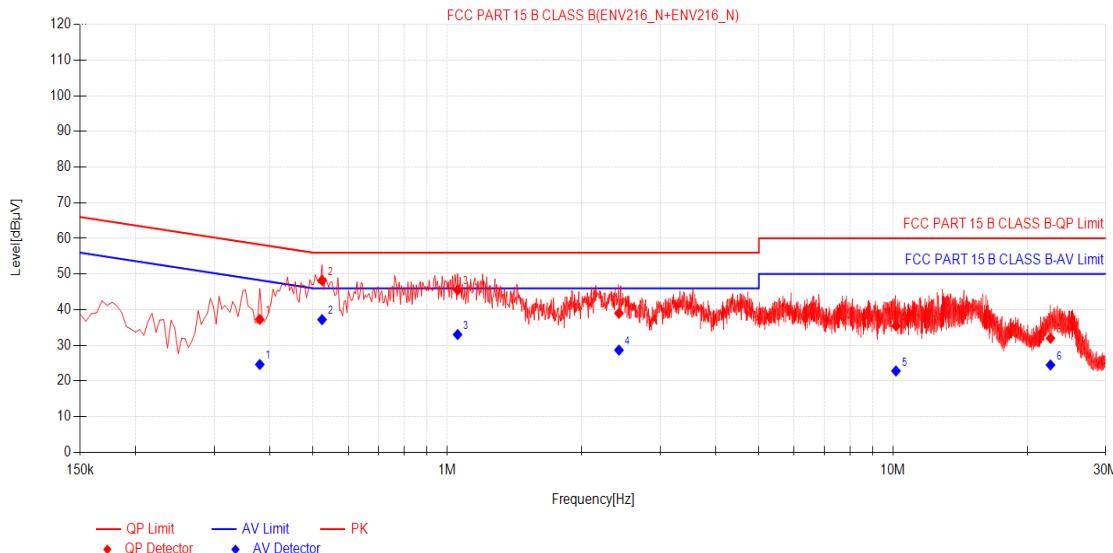
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Mode :i; Line:Neutral Line



| Final Data List | | | | | | | | | |
|-----------------|-----------------|-------------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|---------|
| NO. | Frequency [MHz] | Factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | Verdict |
| 1 | 0.3795 | 10.82 | 37.28 | 58.29 | 21.01 | 24.63 | 48.29 | 23.66 | PASS |
| 2 | 0.5235 | 10.78 | 48.21 | 56.00 | 7.79 | 37.21 | 46.00 | 8.79 | PASS |
| 3 | 1.0545 | 10.67 | 45.52 | 56.00 | 10.48 | 33.03 | 46.00 | 12.97 | PASS |
| 4 | 2.4270 | 10.78 | 39.01 | 56.00 | 16.99 | 28.66 | 46.00 | 17.34 | PASS |
| 5 | 10.1535 | 10.67 | 35.46 | 60.00 | 24.54 | 22.82 | 50.00 | 27.18 | PASS |
| 6 | 22.5555 | 10.46 | 31.97 | 60.00 | 28.03 | 24.49 | 50.00 | 25.51 | PASS |

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Reading + Factor(Lisn factor + cable loss).

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2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

Limit:

30MHz -88MHz 40.0(dB μ V/m) quasi-peak88MHz-216MHz 43.5(dB μ V/m) quasi-peak216MHz-960MHz 46.0(dB μ V/m) quasi-peak960MHz-1000MHz 54.0(dB μ V/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

2.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22~23°C Humidity: 44~46% RH Atmospheric Pressure: 101.0 kPa

Pretest these modes to find the worst case:

- a: Adaptor+USB+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850
- b: Adaptor+USB+BT Idle+WLAN(5G)+Camera(Front)+WCDMA 5
- c: Adaptor+USB+BT Idle+WLAN(2.4G)+MP4+LTE Band 5
- d: Adaptor+USB+BT Idle+WLAN(5G)+NFC On+LTE Band 12
- e: Adaptor+USB+BT Idle+WLAN(2.4G)+Scan Code+LTE Band 13
- f: Adaptor+USB+BT Idle+WLAN(5G)+GPS RX+LTE Band 17
- g: Adaptor+USB+BT Idle+WLAN(5G)+(Mode 1-6 worse)+LTE Band 26
- h: Transfer data between the EUT and the PC+USB+WLAN(2.4G)+(Mode 1-6 worse) SA Band 5
- i: Transfer data between the EUT and the PC+USB+WLAN(2.4G)+(Mode 1-6 worse) SA Band 71

The worst case for final test:

- f: Adaptor+USB+BT Idle+WLAN(5G)+GPS RX+LTE Band 17
- h: Transfer data between the EUT and the PC+USB+WLAN(2.4G)+(Mode 1-6 worse) SA Band 5

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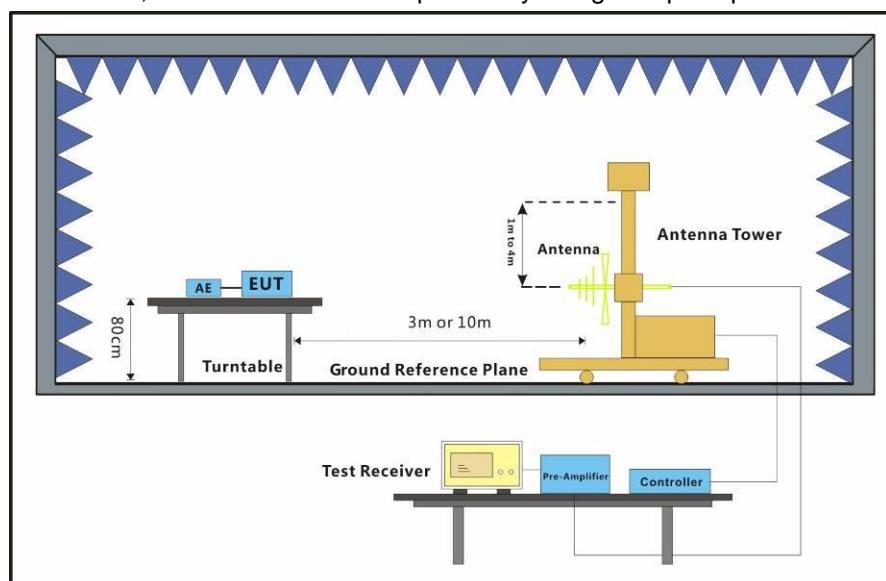
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2.2.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, 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.
6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.



2.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.

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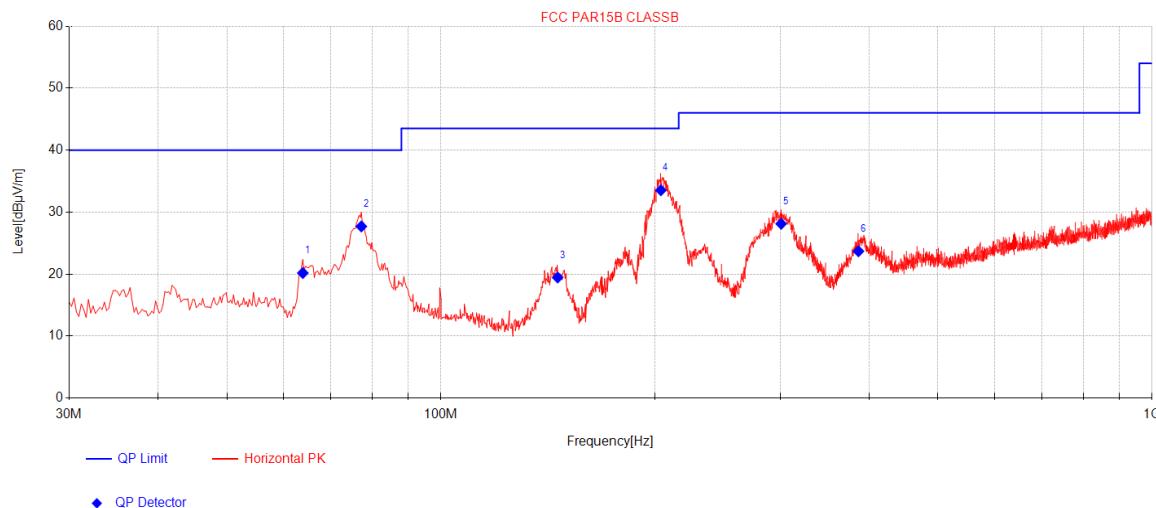
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Mode :f; Polarization:Horizontal



Remark:

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------------|-------------------|----------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 63.95 | 37.52 | -17.34 | 20.18 | 40.00 | 19.82 | 162 | 185 | Horizontal |
| 2 | 77.2875 | 48.11 | -20.42 | 27.69 | 40.00 | 12.31 | 196 | 96 | Horizontal |
| 3 | 145.915 | 39.56 | -20.10 | 19.46 | 43.50 | 24.04 | 248 | 28 | Horizontal |
| 4 | 203.8725 | 49.63 | -16.10 | 33.53 | 43.50 | 9.97 | 284 | 162 | Horizontal |
| 5 | 300.8725 | 41.03 | -12.91 | 28.12 | 46.00 | 17.88 | 185 | 185 | Horizontal |
| 6 | 386.475 | 33.86 | -10.17 | 23.69 | 46.00 | 22.31 | 166 | 261 | Horizontal |

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).

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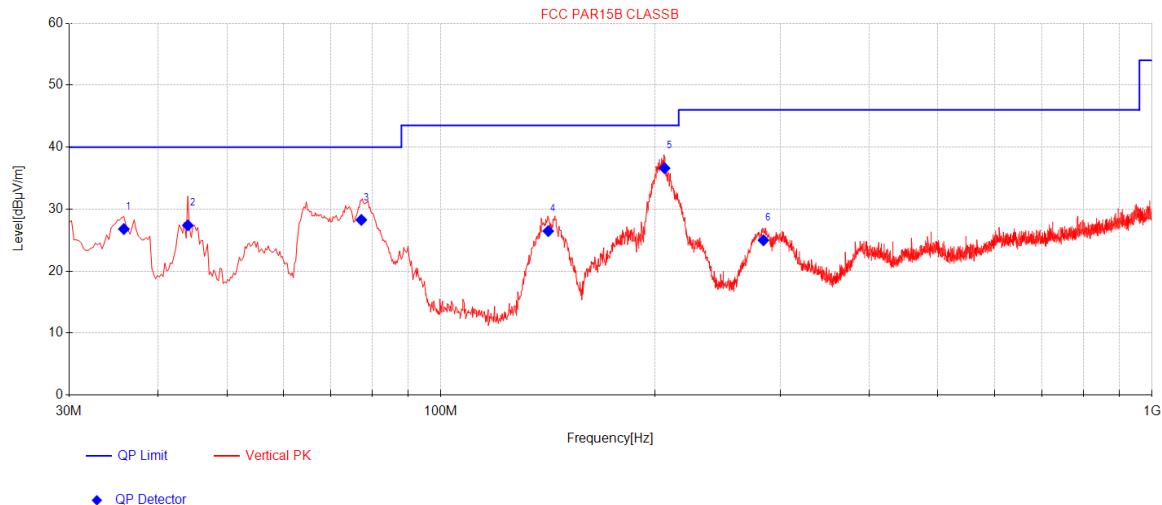
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Mode :f; Polarization:Vertical



| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------------|-------------------|----------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 35.82 | 44.15 | -17.36 | 26.79 | 40.00 | 13.21 | 162 | 19 | Vertical |
| 2 | 44.065 | 42.52 | -15.14 | 27.38 | 40.00 | 12.62 | 185 | 3 | Vertical |
| 3 | 77.2875 | 48.68 | -20.42 | 28.26 | 40.00 | 11.74 | 294 | 58 | Vertical |
| 4 | 141.55 | 46.22 | -19.76 | 26.46 | 43.50 | 17.04 | 185 | 136 | Vertical |
| 5 | 206.2975 | 52.52 | -15.92 | 36.60 | 43.50 | 6.90 | 245 | 165 | Vertical |
| 6 | 284.14 | 38.66 | -13.68 | 24.98 | 46.00 | 21.02 | 241 | 116 | Vertical |

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).

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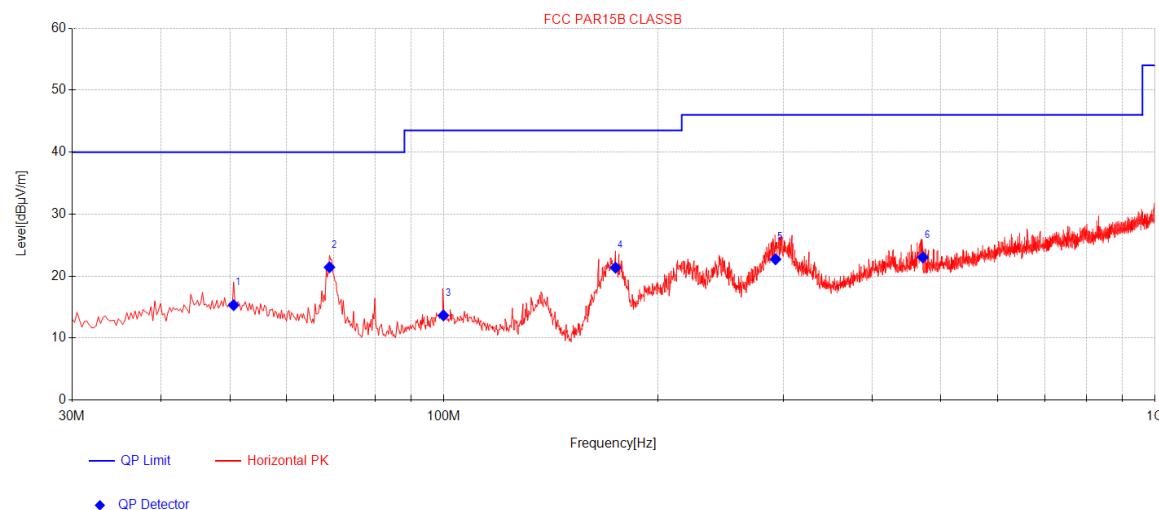
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Mode :h; Polarization:Horizontal



| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------------|-------------|-------------------------|-------------------------|----------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dB μ V] | Factor [dB] | QP Value [dB μ V/m] | QP Limit [dB μ V/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 50.6125 | 29.65 | -14.33 | 15.32 | 40.00 | 24.68 | 261 | 7 | Horizontal |
| 2 | 69.0425 | 40.2 | -18.77 | 21.43 | 40.00 | 18.57 | 284 | 332 | Horizontal |
| 3 | 99.84 | 30.26 | -16.59 | 13.67 | 43.50 | 29.83 | 152 | 137 | Horizontal |
| 4 | 174.2875 | 39.85 | -18.49 | 21.36 | 43.50 | 22.14 | 165 | 350 | Horizontal |
| 5 | 292.6275 | 35.75 | -13.03 | 22.72 | 46.00 | 23.28 | 196 | 283 | Horizontal |
| 6 | 471.35 | 31.52 | -8.49 | 23.03 | 46.00 | 22.97 | 241 | 292 | Horizontal |

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).

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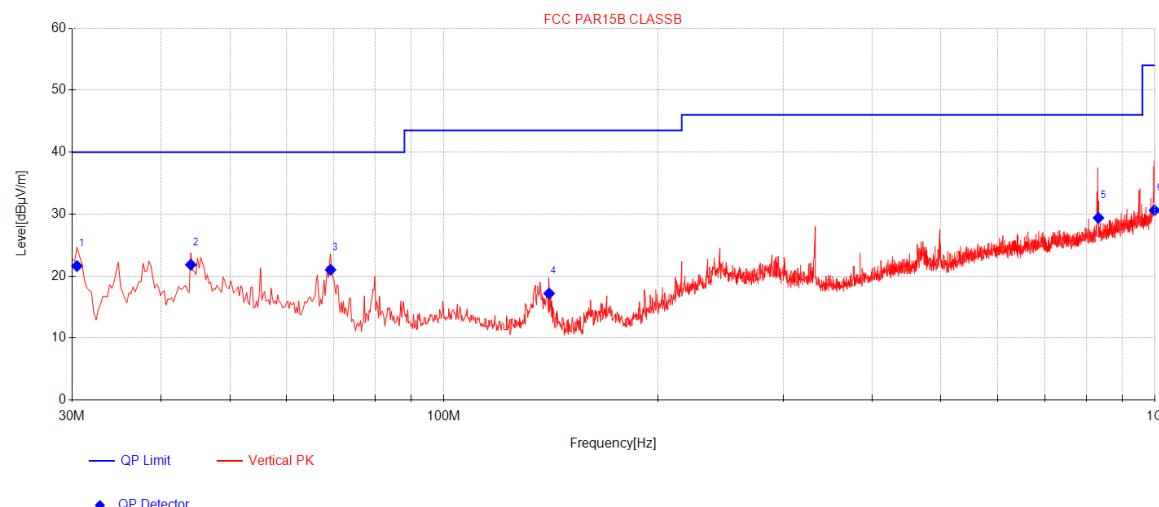
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Mode :h; Polarization:Vertical



| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------------|-------------|-------------------------|-------------------------|----------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dB μ V] | Factor [dB] | QP Value [dB μ V/m] | QP Limit [dB μ V/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 30.485 | 39.85 | -18.22 | 21.63 | 40.00 | 18.37 | 162 | 360 | Vertical |
| 2 | 44.065 | 36.98 | -15.14 | 21.84 | 40.00 | 18.16 | 185 | 3 | Vertical |
| 3 | 69.285 | 39.86 | -18.84 | 21.02 | 40.00 | 18.98 | 145 | 357 | Vertical |
| 4 | 140.58 | 36.88 | -19.68 | 17.20 | 43.50 | 26.30 | 246 | 273 | Vertical |
| 5 | 832.4325 | 31.85 | -2.45 | 29.40 | 46.00 | 16.60 | 175 | 187 | Vertical |
| 6 | 998.3025 | 30.96 | -0.33 | 30.63 | 54.00 | 23.37 | 156 | 359 | Vertical |

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).

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2.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Frequency Range: Above 1GHz

Measurement Distance: 3m

Limit:

Above 1GHz 74(dB μ V/m) peak, 54(dB μ V/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 40000MHz

2.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22~23°C Humidity: 44~46% RH Atmospheric Pressure: 101.0 kPa

Pretest these modes to find the worst case: a: Adaptor+USB+BT Idle+WLAN(2.4G)+Camera(Rear)+GSM850

b: Adaptor+USB+BT Idle+WLAN(5G)+Camera(Front)+WCDMA 5

c: Adaptor+USB+BT Idle+WLAN(2.4G)+MP4+LTE Band 5

d: Adaptor+USB+BT Idle+WLAN(5G)+NFC On+LTE Band 12

e: Adaptor+USB+BT Idle+WLAN(2.4G)+Scan Code+LTE Band 13

f: Adaptor+USB+BT Idle+WLAN(5G)+GPS RX+LTE Band 17

g: Adaptor+USB+BT Idle+WLAN(5G)+(Mode 1-6 worse)+LTE Band 26

h: Transfer data between the EUT and the PC+USB+WLAN(2.4G)+(Mode 1-6 worse) SA Band 5

i: Transfer data between the EUT and the PC+USB+WLAN(2.4G)+(Mode 1-6 worse) SA Band 71

The worst case for final test: f: Adaptor+USB+BT Idle+WLAN(5G)+GPS RX+LTE Band 17

h: Transfer data between the EUT and the PC+USB+WLAN(2.4G)+(Mode 1-6 worse) SA Band 5

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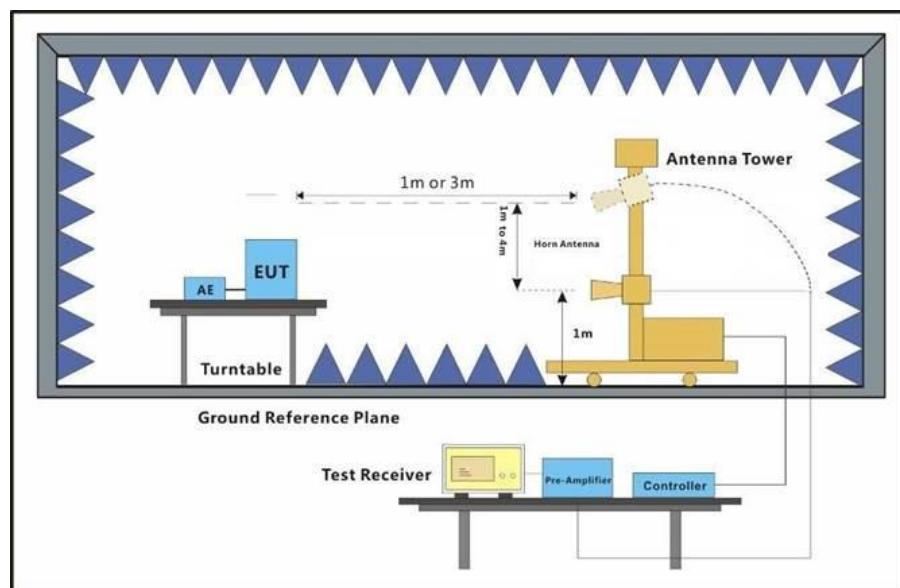
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2.3.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, 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.
6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.



2.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.

Scan from 1GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only points had been displayed.

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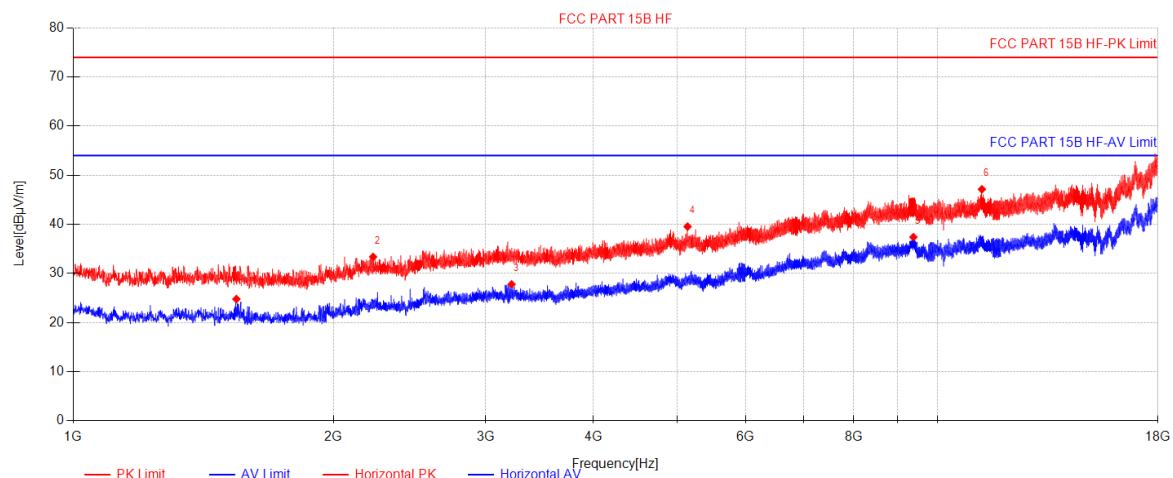
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Mode :f; Polarization:Horizontal



| Data List | | | | | | | | | |
|-----------|-----------------|----------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1544.5 | 47.65 | 24.77 | -22.88 | 54.00 | 29.23 | 155 | 36 | Horizontal |
| 2 | 2223.5 | 53.66 | 33.37 | -20.29 | 74.00 | 40.63 | 187 | 59 | Horizontal |
| 3 | 3215.5 | 44.47 | 27.78 | -16.69 | 54.00 | 26.22 | 192 | 0 | Horizontal |
| 4 | 5139 | 51.81 | 39.54 | -12.27 | 74.00 | 34.46 | 245 | 332 | Horizontal |
| 5 | 9380.5 | 38.72 | 37.39 | -1.33 | 54.00 | 16.61 | 286 | 141 | Horizontal |
| 6 | 11259.5 | 45.50 | 47.14 | 1.64 | 74.00 | 26.86 | 231 | 169 | Horizontal |

Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).

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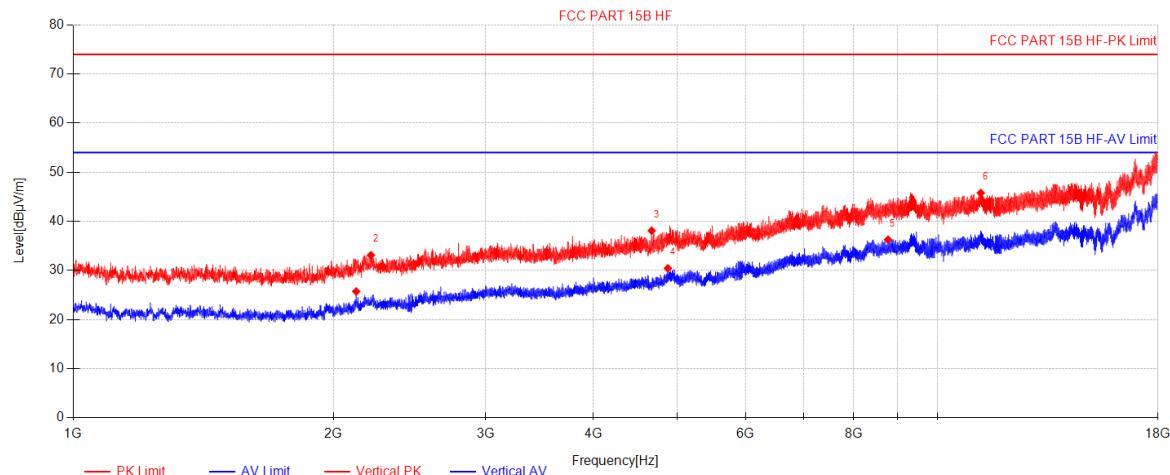
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Mode :f; Polarization:Vertical



| Data List | | | | | | | | | |
|-----------|-----------------|----------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2125.5 | 46.33 | 25.71 | -20.62 | 54.00 | 28.29 | 118 | 110 | Vertical |
| 2 | 2210.5 | 53.42 | 33.10 | -20.32 | 74.00 | 40.90 | 142 | 300 | Vertical |
| 3 | 4670.5 | 51.96 | 38.09 | -13.87 | 74.00 | 35.91 | 229 | 360 | Vertical |
| 4 | 4876 | 43.48 | 30.42 | -13.06 | 54.00 | 23.58 | 281 | 191 | Vertical |
| 5 | 8768.5 | 39.67 | 36.26 | -3.41 | 54.00 | 17.74 | 173 | 137 | Vertical |
| 6 | 11225 | 44.20 | 45.77 | 1.57 | 74.00 | 28.23 | 166 | 137 | Vertical |

Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).

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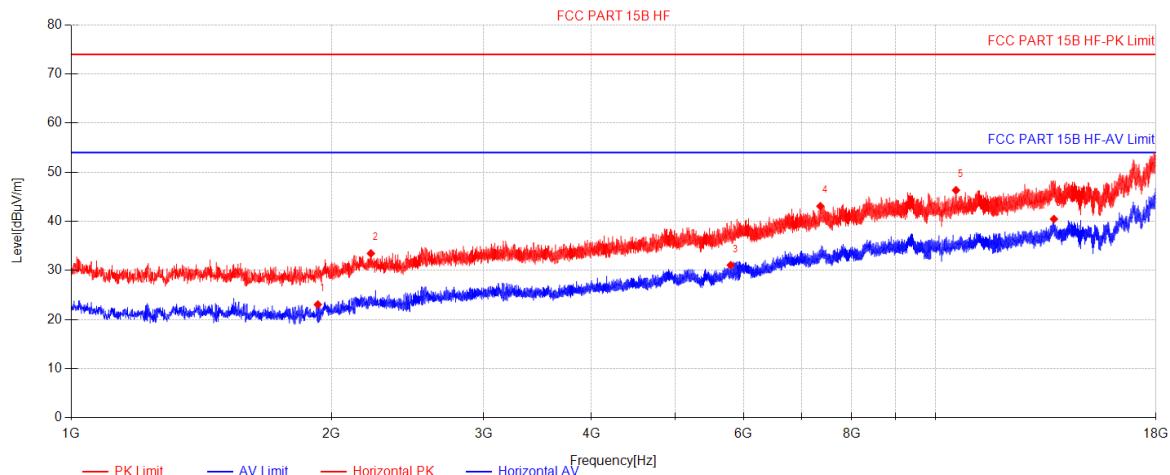
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Mode :h; Polarization:Horizontal



| Data List | | | | | | | | | |
|-----------|-----------------|----------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBµV] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1929 | 44.85 | 23.05 | -21.80 | 54.00 | 30.95 | 144 | 15 | Horizontal |
| 2 | 2222 | 53.75 | 33.46 | -20.29 | 74.00 | 40.54 | 255 | 356 | Horizontal |
| 3 | 5797 | 41.98 | 31.06 | -10.92 | 54.00 | 22.94 | 126 | 1 | Horizontal |
| 4 | 7360.5 | 49.91 | 43.08 | -6.83 | 74.00 | 30.92 | 291 | 304 | Horizontal |
| 5 | 10564 | 45.97 | 46.33 | 0.36 | 74.00 | 27.67 | 175 | 114 | Horizontal |
| 6 | 13715.5 | 36.61 | 40.47 | 3.86 | 54.00 | 13.53 | 134 | 30 | Horizontal |

Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.
2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).

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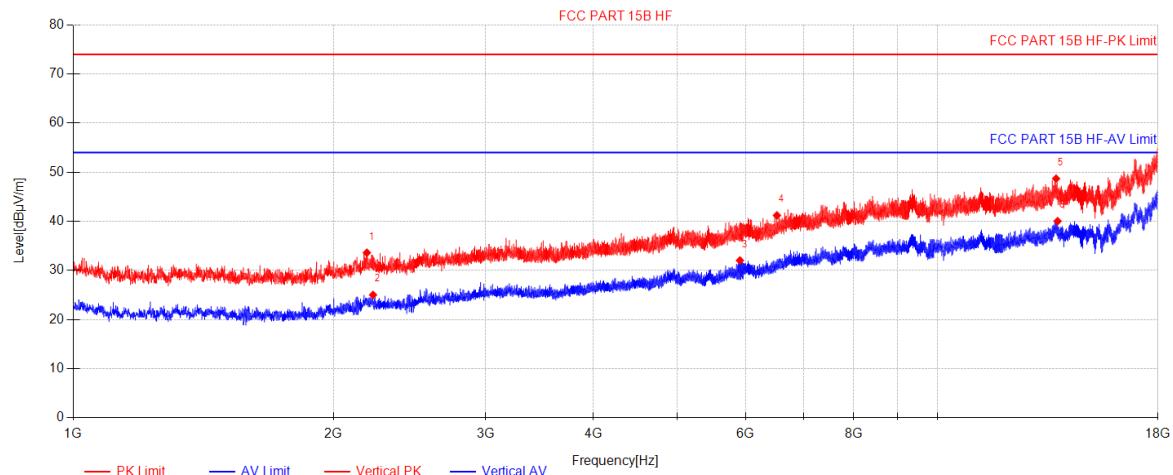
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Mode :h; Polarization:Vertical



| Data List | | | | | | | | | |
|-----------|-----------------|----------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBµV] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2186.5 | 53.99 | 33.60 | -20.39 | 74.00 | 40.40 | 128 | 165 | Vertical |
| 2 | 2223 | 45.30 | 25.01 | -20.29 | 54.00 | 28.99 | 194 | 4 | Vertical |
| 3 | 5909 | 42.99 | 32.03 | -10.96 | 54.00 | 21.97 | 172 | 82 | Vertical |
| 4 | 6521 | 50.70 | 41.20 | -9.50 | 74.00 | 32.80 | 132 | 275 | Vertical |
| 5 | 13721 | 44.87 | 48.70 | 3.83 | 74.00 | 25.30 | 233 | 138 | Vertical |
| 6 | 13775.5 | 36.48 | 40.04 | 3.56 | 54.00 | 13.96 | 265 | 275 | Vertical |

Remark:

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2. Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).

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3 Equipment List

| CE Test Equipment | | | | | |
|-------------------------------------|---------------|------------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Shielding Room | Brilliant-emc | N/A | SUWI-04-03-01 | 2021/5/8 | 2024/5/7 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | SUWI-01-19-01 | 2021/2/20 | 2022/2/19 |
| | | | | 2022/2/19 | 2023/2/18 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | SUWI-01-19-02 | 2021/2/20 | 2022/2/19 |
| | | | | 2022/2/19 | 2023/2/18 |
| Measurement Software | Tonscend | JS32-CE V4.0.0.2 | SUWI-02-09-05 | NCR | NCR |
| Wideband Radio Communication Tester | ROHDE&SCHWARZ | CMW500 | SUWI-01-16-05 | 2022/2/14 | 2023/2/13 |
| Radio Communication Analyzer | StarPoint | SP9500E | SUWI-01-28-02 | 2022/1/10 | 2022/1/9 |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2021/2/20 | 2022/2/19 |
| | | | | 2022/2/19 | 2023/2/18 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-06 | 2021/2/20 | 2022/2/19 |
| | | | | 2022/2/16 | 2023/2/15 |

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| RSE Test Equipment | | | | | |
|--------------------------------|----------------------------|------------------|---------------|-----------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Semi-Anechoic Chamber | Brilliant-emc | N/A | SUWI-04-02-01 | 2021/5/8 | 2024/5/7 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-05 | 2021/2/20 | 2022/2/19 |
| | | | | 2022/2/16 | 2023/2/15 |
| Signal Analyzer | ROHDE&SCHWARZ | FSW43 | SUWI-01-02-04 | 2021/5/28 | 2022/5/27 |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2021/2/20 | 2022/2/19 |
| | | | | 2022/2/19 | 2023/2/18 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | VULB 9163 | SUWI-01-11-01 | 2021/5/14 | 2022/5/13 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9120D | SUWI-01-11-02 | 2021/2/20 | 2022/2/19 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9170 | SUWI-01-11-03 | 2022/2/15 | 2023/2/14 |
| Amplifier | Tonscend | TAP9K3G40 | SUWI-01-14-01 | 2021/2/20 | 2022/2/19 |
| Amplifier | Tonscend | TAP01018050 | | 2022/2/15 | 2023/2/14 |
| Amplifier | Tonscend | TAP18040048 | SUWI-01-14-03 | 2021/2/20 | 2022/2/19 |
| | | | | 2022/2/19 | 2023/2/18 |
| Active Loop Antenna | SCHWRZBECK MESS-ELEKTRONIK | FMZB 1519B | SUWI-01-21-01 | 2021/6/10 | 2022/6/9 |
| Measurement Software | Tonscend | JS32-RE V3.0.0.3 | SUWI-02-09-04 | NCR | NCR |
| Radio Communication Analyzer | StarPoint | SP9500E | SUWI-01-28-02 | 2022/1/10 | 2022/1/9 |
| UXM 5G Wireless Test Platform | KEYSIGHT | E7515B | SUWI-01-04-01 | 2021/2/20 | 2022/2/19 |
| | | | | 2022/2/14 | 2023/2/13 |

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4 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------|----------------------------|
| 1 | Conduction Emission | ± 2.90dB (150kHz to 30MHz) |
| | | ± 4.8dB (30MHz to 1GHz) |
| 2 | Radiated Emission | ± 4.8dB (1GHz to 18GHz) |
| | | ± 4.8dB (Above 18GHz) |

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5 Photographs

5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -

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