



TEST REPORT

Application No: ZR/2021/50040
Applicant: Great Talent Technology Limited
Address of Applicant: 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Manufacturer: Great Talent Technology Limited
Address of Manufacturer: 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
EUT Description: smart phone
Model No.: U696CL
Trade Mark: UMX
FCC ID: 2ALZM- U696CL
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2021/7/2
Date of Test: 2021/7/2 to 2021/7/26
Date of Issue: 2021/8/3

| | |
|---------------------|--------------|
| Test Result: | Pass* |
|---------------------|--------------|

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

Authorized Signature:

Simon Ling

Wireless Laboratory Manager



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Wireless Laboratory

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| Revision Record | | | | |
|-----------------|---------|----------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2021/8/3 | | Original |
| | | | | |
| | | | | |

| | |
|-------------|------------------------------------------------------------------------------------|
| Prepared By |  |
| | (Leah Chen) / Engineer |
| Checked By |  |
| | (Daniel Wang) /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: | smart phone | | |
| Model No.(EUT): | U696CL | | |
| Trade Mark: | UMX | | |
| Hardware Version: | U696CL_V1.0 | | |
| Software Version: | UMX_U696CL_V11.01.01.01.061711 | | |
| 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 12 | 699~716 | 729~746 |
| | LTE Band 25 | 1850~1915 | 1930~1995 |
| | LTE Band 26 | 814~849 | 859~894 |
| | LTE Band 41 | 2496~2690 | 2496~2690 |
| | LTE Band 66 | 1710~1780 | 2110~2200 |
| | LTE Band 71 | 663~698 | 617~652 |
| | Wi-Fi 2.4G | 2412~2462 | 2412~2462 |
| | Bluetooth | 2402~2480 | 2402~2480 |
| | GNSS | 1599~1610 | |



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1.1 Accessory of E.U.T.

| Item No. | Mode No. | Manufacturer |
|---------------|-----------------------------|-----------------------------------------------|
| Adapter | TPA-5950100UU | ShenZhen Kingfulin Technology Co., Ltd. |
| USB cable | TYPE-C TO USB/A/M L0.8M BLK | Dongguan Guojun Plastic Electronics Co., Ltd. |
| Battery (EUT) | UBT2300 | Phenix New Energy(Hui Zhou)Co.,Ltd. |

1.2 Description of Support Units

| Description | Manufacturer | Model No. | Inventory No. |
|-------------|--------------|--------------|---------------|
| Router | NETGEAR | R6020 | No.XA1401 |
| Computer | Lenovo | L480 | No.XA1402 |
| Mouse | A4TECH | OP-520NU USB | No.XA1403 |

1.3 Test Location

All tests were performed at:

| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------|
| Company: | SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. |
| Address: | 1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China |
| Post code: | 710086 |
| Test engineer: | Leah Chen, Ken Liu, Andy Yao |

No tests were sub-contracted.

1.4 Test Facility

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

A2LA (Certificate No. 4854.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

FCC-Designation Number: CN1271.

1.5 Deviation from Standards

None

1.6 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(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average |
| 0.5M-5MHz | 56dB(μV) quasi-peak, 46dB(μV) average |
| 5M-30MHz | 60dB(μV) quasi-peak, 50dB(μV) average |
| Detector: | Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz |

2.1.1 E.U.T. Operation

Operating Environment:

Temperature: 18.9 °C Humidity: 55.1 % RH Atmospheric Pressure: 1000 mbar

- Pretest these modes to find the worst case:
- a: Transfer data between the EUT and the PC+USB cable
 - b: GSM 850 Idle+BT+WLAN+GNSS Rx+playing MP4 (SD card) + USB Cable+adapter
 - c: WCDMA Band V Idle +BT+WLAN+GNSS Rx+camera (Front) + USB Cable+adapter
 - d: LTE Band 5 Idle+BT+WLAN +GNSS Rx+ camera (Back)+ USB Cable+adapter
 - e: LTE Band 26 Idle+BT+WLAN +GNSS Rx+ camera (worst)+ USB Cable+adapter
 - f: LTE Band 71 Idle+BT+WLAN +GNSS Rx+ camera (worst)+ USB Cable+adapter

- The worst case for final test:
- a: Transfer data between the EUT and the PC+USB cable
 - d: LTE Band 5 Idle+BT+WLAN +GNSS Rx+ camera (Back)+ USB Cable+adapter



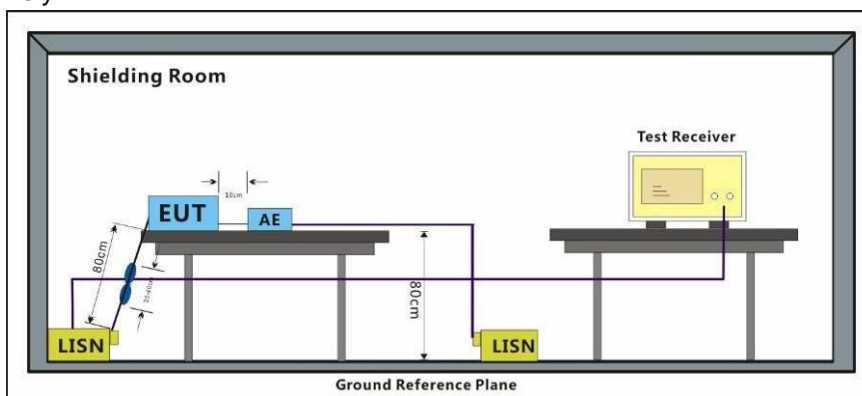
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2.1.2 Test Setup Procedures

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.

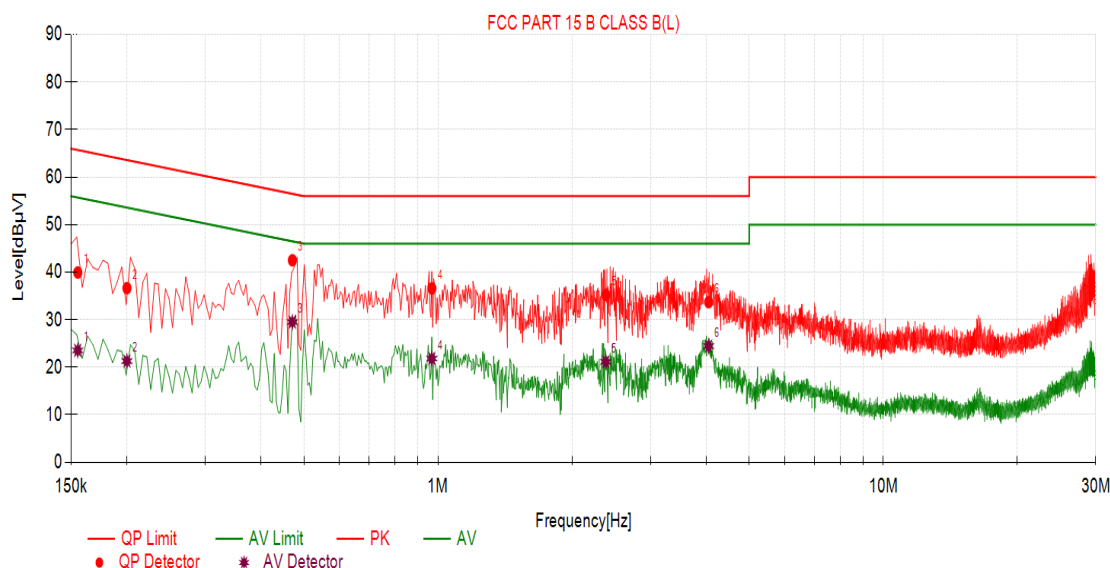


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Mode:a; Line:Live Line



Test Graph

Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] |
|-----|----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|
| 1 | 0.1553 | 10.10 | 39.94 | 65.71 | 25.77 | 23.55 | 55.71 | 32.16 |
| 2 | 0.2003 | 10.13 | 36.65 | 63.60 | 26.95 | 21.30 | 53.60 | 32.30 |
| 3 | 0.4711 | 10.15 | 42.52 | 56.49 | 13.97 | 29.51 | 46.49 | 16.98 |
| 4 | 0.9692 | 10.18 | 36.60 | 56.00 | 19.40 | 21.83 | 46.00 | 24.17 |
| 5 | 2.3829 | 10.12 | 35.22 | 56.00 | 20.78 | 21.14 | 46.00 | 24.86 |
| 6 | 4.0537 | 9.81 | 33.71 | 56.00 | 22.29 | 24.45 | 46.00 | 21.55 |



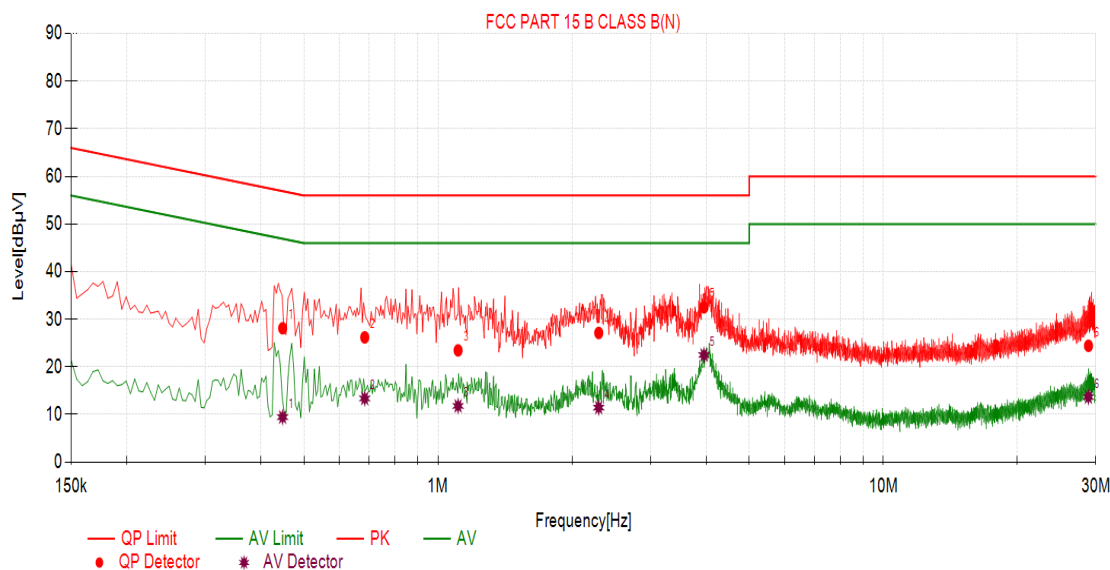
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Mode:a; Line:Neutral Line



Test Graph

Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] |
|-----|----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|
| 1 | 0.4480 | 10.15 | 28.12 | 56.91 | 28.79 | 9.45 | 46.91 | 37.46 |
| 2 | 0.6848 | 10.16 | 26.21 | 56.00 | 29.79 | 13.37 | 46.00 | 32.63 |
| 3 | 1.1098 | 10.18 | 23.47 | 56.00 | 32.53 | 11.80 | 46.00 | 34.20 |
| 4 | 2.2963 | 10.13 | 27.13 | 56.00 | 28.87 | 11.45 | 46.00 | 34.55 |
| 5 | 3.9569 | 9.83 | 32.51 | 56.00 | 23.49 | 22.50 | 46.00 | 23.50 |
| 6 | 28.8892 | 13.84 | 24.43 | 60.00 | 35.57 | 13.66 | 50.00 | 36.34 |



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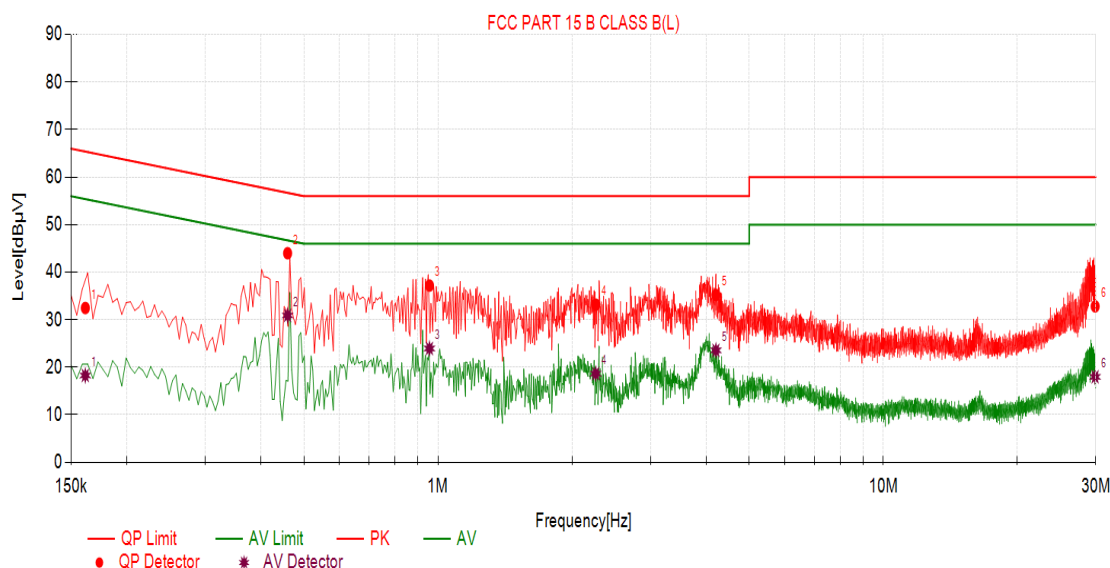
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Mode:d: Line:Live Line



Test Graph

| Final Data List | | | | | | | | |
|-----------------|----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|
| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] |
| 1 | 0.1615 | 10.10 | 32.47 | 65.39 | 32.92 | 18.27 | 55.39 | 37.12 |
| 2 | 0.4596 | 10.15 | 44.00 | 56.70 | 12.70 | 30.90 | 46.70 | 15.80 |
| 3 | 0.9572 | 10.18 | 37.19 | 56.00 | 18.81 | 23.95 | 46.00 | 22.05 |
| 4 | 2.2612 | 10.14 | 33.18 | 56.00 | 22.82 | 18.66 | 46.00 | 27.34 |
| 5 | 4.2099 | 9.77 | 35.22 | 56.00 | 20.78 | 23.56 | 46.00 | 22.44 |
| 6 | 29.9020 | 11.60 | 32.82 | 60.00 | 27.18 | 17.98 | 50.00 | 32.02 |



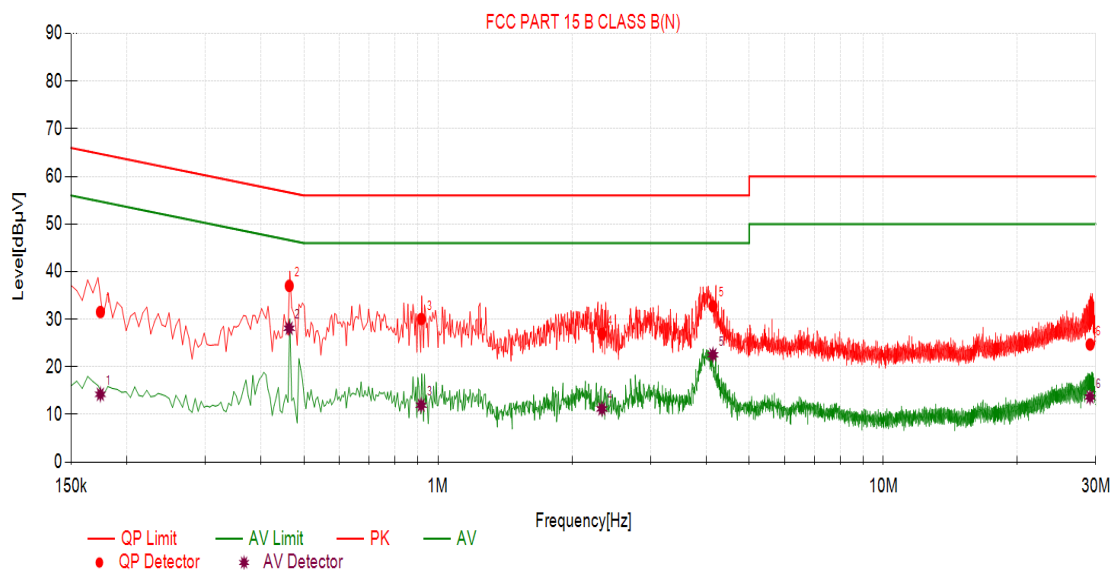
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Mode:d; Line:Neutral Line



Test Graph

Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] |
|-----|----------------|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|
| 1 | 0.1746 | 10.11 | 31.53 | 64.74 | 33.21 | 14.24 | 54.74 | 40.50 |
| 2 | 0.4635 | 10.15 | 37.02 | 56.63 | 19.61 | 28.12 | 46.63 | 18.51 |
| 3 | 0.9172 | 10.18 | 30.05 | 56.00 | 25.95 | 11.96 | 46.00 | 34.04 |
| 4 | 2.3347 | 10.13 | 26.93 | 56.00 | 29.07 | 11.18 | 46.00 | 34.82 |
| 5 | 4.1447 | 9.79 | 32.76 | 56.00 | 23.24 | 22.54 | 46.00 | 23.46 |
| 6 | 29.1303 | 13.86 | 24.71 | 60.00 | 35.29 | 13.68 | 50.00 | 36.32 |



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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(dBμV/m) quasi-peak
88MHz-216MHz 43.5(dBμV/m) quasi-peak
216MHz-960MHz 46.0(dBμV/m) quasi-peak
960MHz-1000MHz 54.0(dBμV/m) quasi-peak
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

2.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 66.5 % RH Atmospheric Pressure: 1010 mbar
Pretest these modes to find the worst case:
a: Transfer data between the EUT and the PC+USB cable
b: GSM 850 Idle+BT+WLAN+GNSS Rx+playing MP4 (SD card) + USB Cable+adapter
c: WCDMA Band V Idle +BT+WLAN+GNSS Rx+camera (Front) + USB Cable+adapter
d: LTE Band 5 Idle+BT+WLAN +GNSS Rx+ camera (Back)+ USB Cable+adapter
e: LTE Band 26 Idle+BT+WLAN +GNSS Rx+ camera (worst)+ USB Cable+adapter
f: LTE Band 71 Idle+BT+WLAN +GNSS Rx+ camera (worst)+ USB Cable+adapter

The worst case for final test:
a: Transfer data between the EUT and the PC+USB cable
c: WCDMA Band V Idle +BT+WLAN+GNSS Rx+camera (Front) + USB Cable+adapter



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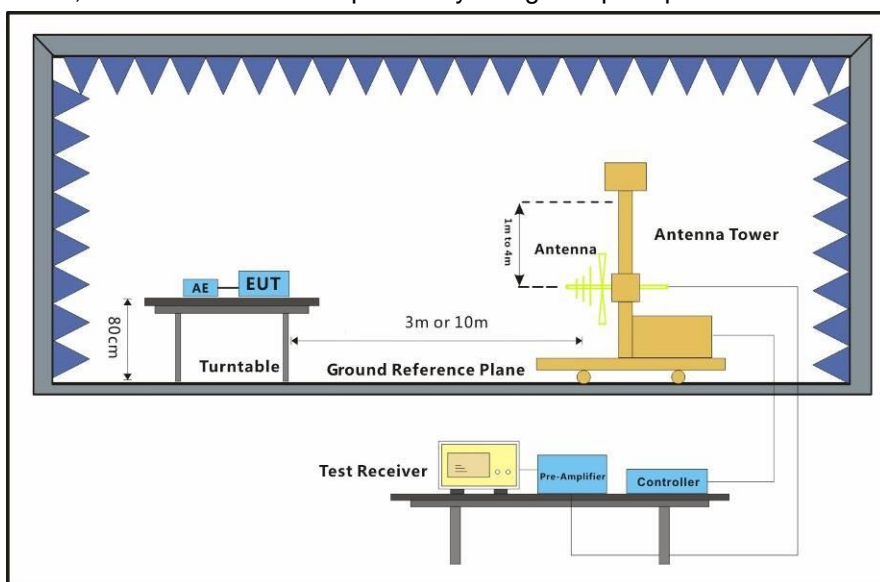
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2.2.2 Test Setup Procedures

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.

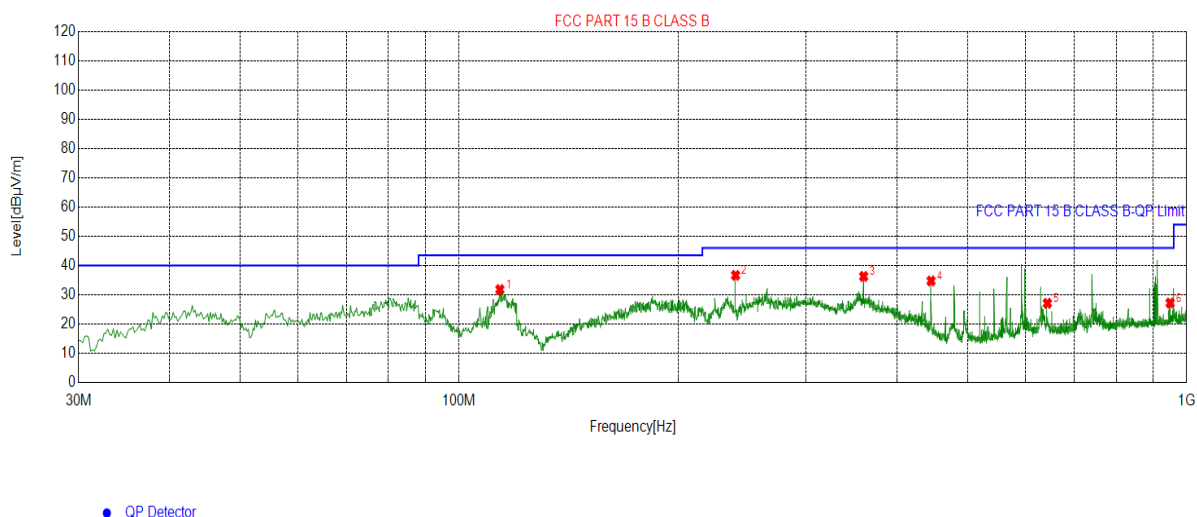


2.2.3 Measurement Data

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.

Mode:a; Polarization:Horizontal



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1 | 113.824 | 31.79 | -22.77 | 43.50 | 11.71 | 187 | 50 | Horizontal |
| 2 | 239.950 | 36.64 | -20.83 | 46.00 | 9.36 | 254 | 8 | Horizontal |
| 3 | 359.866 | 36.27 | -17.55 | 46.00 | 9.73 | 226 | 288 | Horizontal |
| 4 | 445.437 | 34.74 | -16.17 | 46.00 | 11.26 | 284 | 358 | Horizontal |
| 5 | 643.550 | 27.10 | -12.18 | 46.00 | 18.90 | 281 | 60 | Horizontal |
| 6 | 948.967 | 27.19 | -7.94 | 46.00 | 18.81 | 259 | 92 | Horizontal |

Final Data List

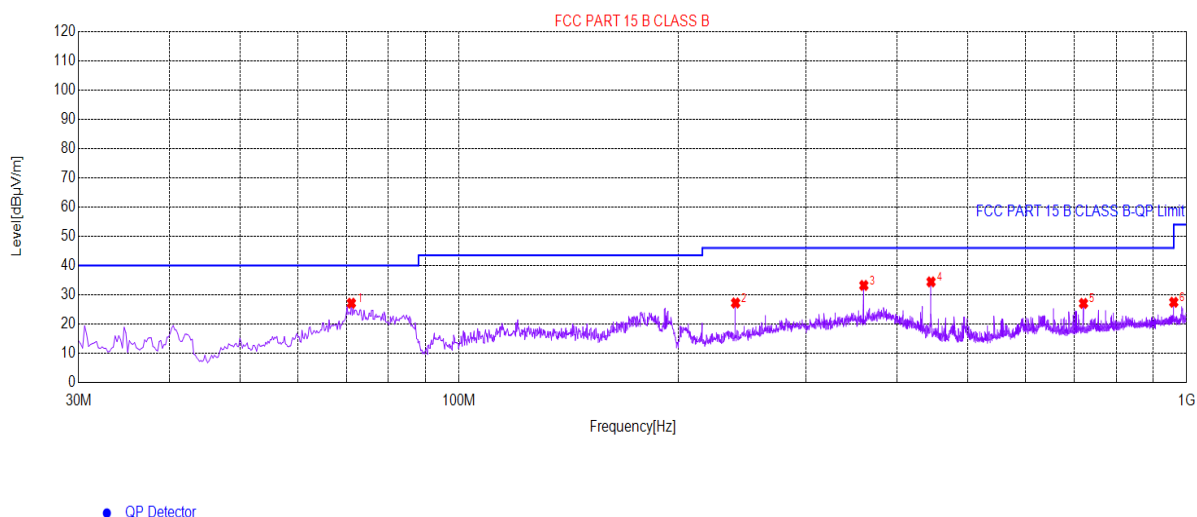


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Mode:a; Polarization:Vertical



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1 | 71.1362 | 27.13 | -23.88 | 40.00 | 12.87 | 284 | 49 | Vertical |
| 2 | 239.950 | 27.20 | -20.83 | 46.00 | 18.80 | 256 | 278 | Vertical |
| 3 | 360.060 | 33.19 | -17.55 | 46.00 | 12.81 | 287 | 358 | Vertical |
| 4 | 445.437 | 34.41 | -16.17 | 46.00 | 11.59 | 214 | 88 | Vertical |
| 5 | 721.554 | 27.05 | -11.38 | 46.00 | 18.95 | 177 | 194 | Vertical |
| 6 | 960.028 | 27.44 | -7.89 | 54.00 | 26.56 | 269 | 2 | Vertical |

Final Data List

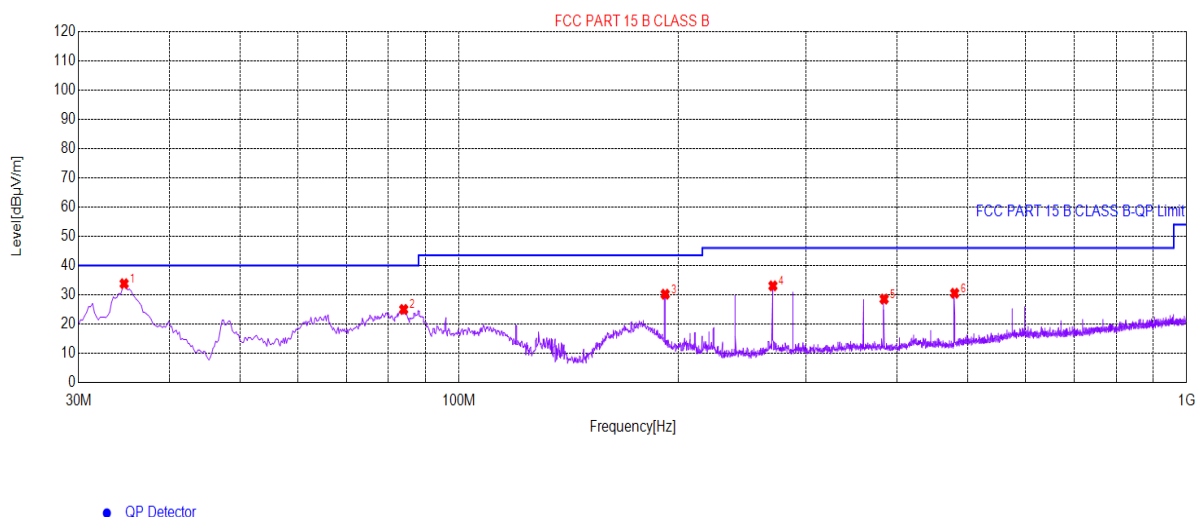


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Mode:c; Polarization: Vertical



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1 | 34.6569 | 33.79 | -31.46 | 40.00 | 6.21 | 187 | 2 | Vertical |
| 2 | 83.9428 | 24.99 | -32.14 | 40.00 | 15.01 | 254 | 234 | Vertical |
| 3 | 192.022 | 30.19 | -30.43 | 43.50 | 13.31 | 263 | 170 | Vertical |
| 4 | 270.026 | 33.04 | -27.24 | 46.00 | 12.96 | 287 | 360 | Vertical |
| 5 | 383.926 | 28.53 | -25.16 | 46.00 | 17.47 | 295 | 357 | Vertical |
| 6 | 479.976 | 30.52 | -23.58 | 46.00 | 15.48 | 284 | 278 | Vertical |

Final Data List

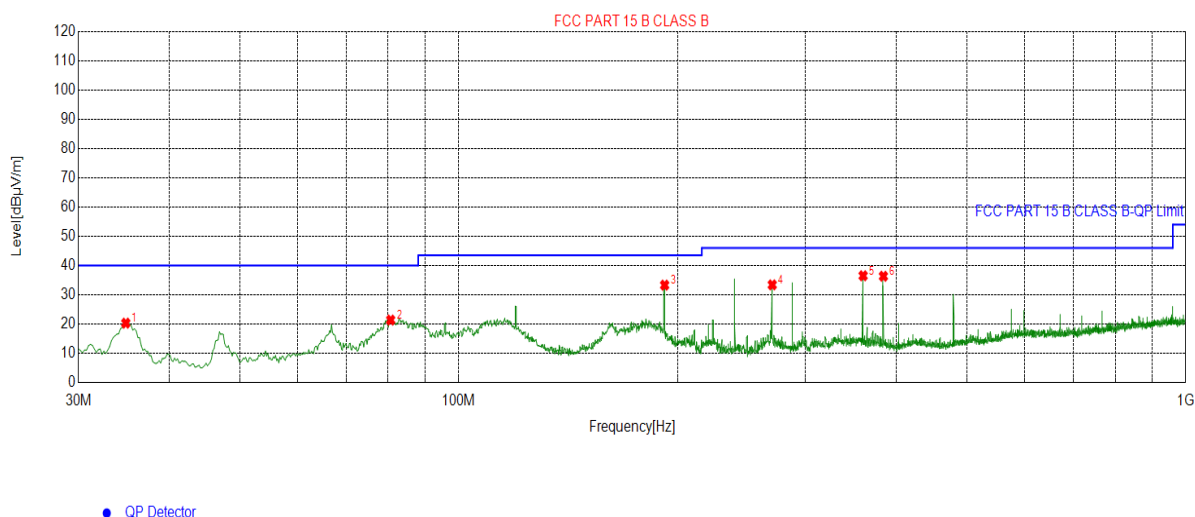


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Mode:c; Polarization: Horizontal



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1 | 34.8510 | 20.31 | -31.44 | 40.00 | 19.69 | 225 | 256 | Horizontal |
| 2 | 80.6441 | 21.37 | -32.26 | 40.00 | 18.63 | 263 | 75 | Horizontal |
| 3 | 192.022 | 33.30 | -30.43 | 43.50 | 10.20 | 284 | 220 | Horizontal |
| 4 | 270.026 | 33.39 | -27.24 | 46.00 | 12.61 | 271 | 50 | Horizontal |
| 5 | 360.060 | 36.50 | -25.17 | 46.00 | 9.50 | 259 | 43 | Horizontal |
| 6 | 383.926 | 36.33 | -25.16 | 46.00 | 9.67 | 187 | 50 | Horizontal |

Final Data List



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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(dBμV/m) peak, 54(dBμV/m) average
Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 40000MHz

2.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable
- b: GSM 850 Idle+BT+WLAN+GNSS Rx+playing MP4 (SD card) + USB Cable+adapter
- c: WCDMA Band V Idle +BT+WLAN+GNSS Rx+camera (Front) + USB Cable+adapter
- d: LTE Band 5 Idle+BT+WLAN +GNSS Rx+ camera (Back)+ USB Cable+adapter
- e: LTE Band 26 Idle+BT+WLAN +GNSS Rx+ camera (worst)+ USB Cable+adapter
- f: LTE Band 71 Idle+BT+WLAN +GNSS Rx+ camera (worst)+ USB Cable+adapter

The worst case for final test:

- a: Transfer data between the EUT and the PC+USB cable
- c: WCDMA Band V Idle +BT+WLAN+GNSS Rx+camera (Front) + USB Cable+adapter



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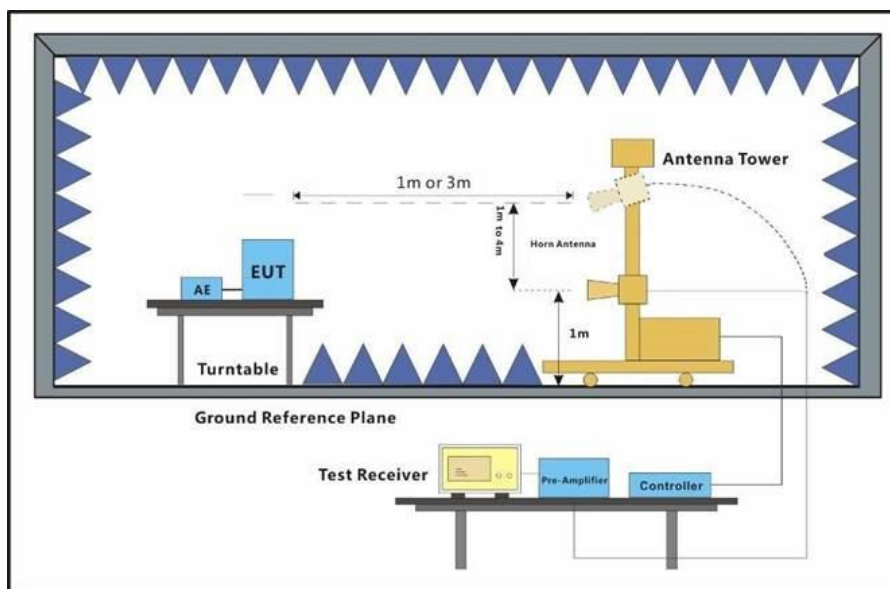
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2.3.2 Test Setup Procedures

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.



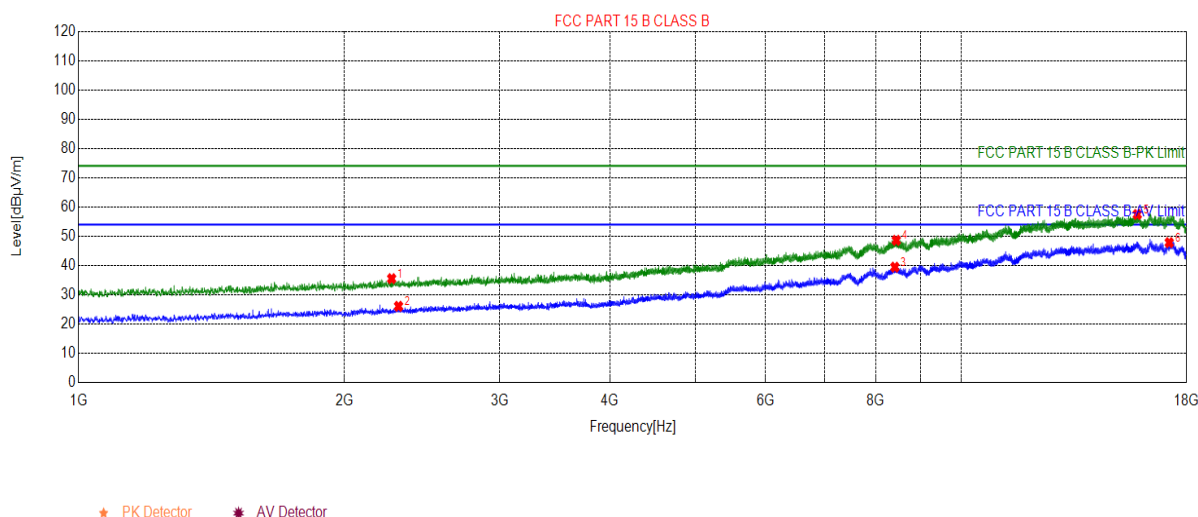
2.3.3 Measurement Data

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 30GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed.

Mode:a; Polarization:Horizontal



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1 | 2263.16 | 35.51 | -27.32 | 74.00 | 38.49 | 198 | 47 | Horizontal |
| 2 | 2303.96 | 26.08 | -27.05 | 54.00 | 27.92 | 175 | 184 | Horizontal |
| 3 | 8408.97 | 39.43 | -7.52 | 54.00 | 14.57 | 162 | 107 | Horizontal |
| 4 | 8439.57 | 48.60 | -7.52 | 74.00 | 25.40 | 187 | 329 | Horizontal |
| 5 | 15824.7 | 57.44 | 3.92 | 74.00 | 16.56 | 164 | 8 | Horizontal |
| 6 | 17200.9 | 47.82 | 1.07 | 54.00 | 6.18 | 172 | 351 | Horizontal |

Final Data List



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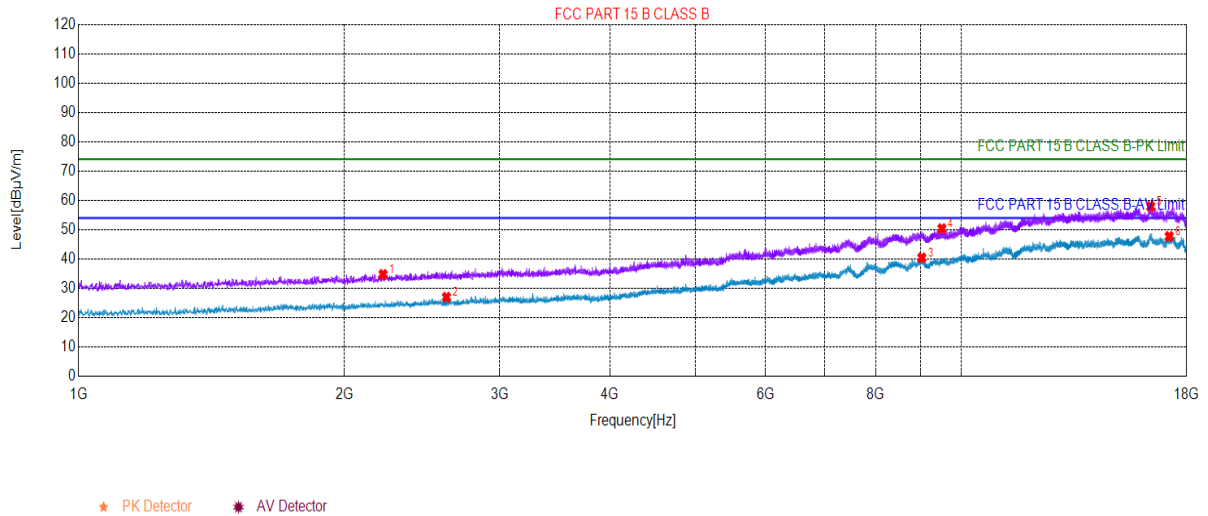


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Report No.: XZR/2021/5004001

Page: 22 of 28

Mode:a; Polarization:Vertical



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1 | 2213.01 | 34.73 | -27.40 | 74.00 | 39.27 | 200 | 16 | Vertical |
| 2 | 2610.83 | 26.98 | -26.15 | 54.00 | 27.02 | 100 | 222 | Vertical |
| 3 | 9021.85 | 40.42 | -6.19 | 54.00 | 13.58 | 100 | 260 | Vertical |
| 4 | 9508.07 | 50.35 | -5.02 | 74.00 | 23.65 | 200 | 215 | Vertical |
| 5 | 16390.0 | 57.90 | 2.38 | 74.00 | 16.10 | 100 | 54 | Vertical |
| 6 | 17200.9 | 47.67 | 1.07 | 54.00 | 6.33 | 100 | 222 | Vertical |

Final Data List



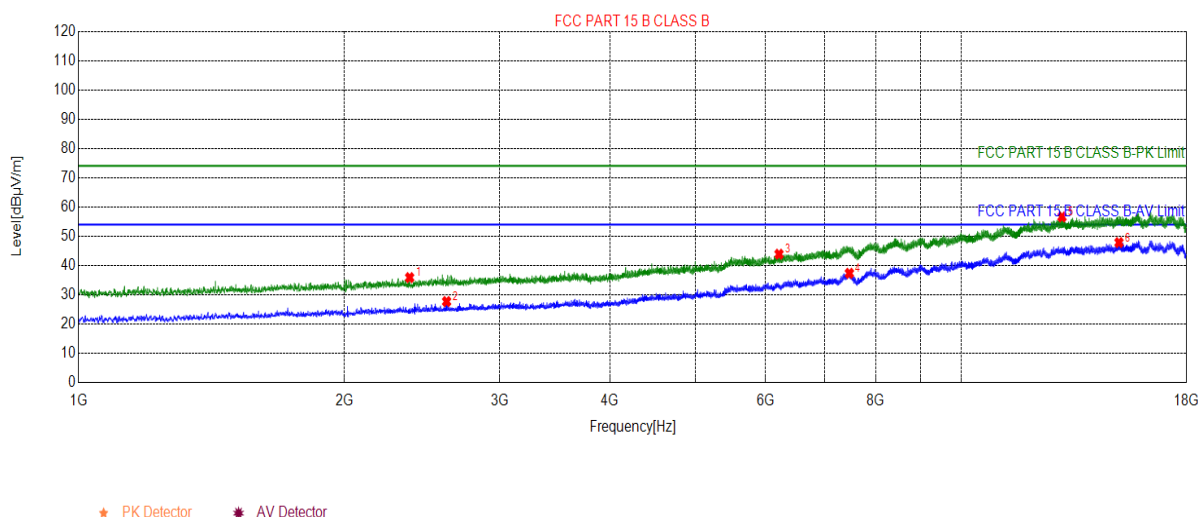
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Mode:c; Polarization:Horizontal



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1 | 2371.96 | 35.87 | -27.24 | 74.00 | 38.13 | 174 | 321 | Horizontal |
| 2 | 2611.68 | 27.69 | -26.14 | 54.00 | 26.31 | 195 | 48 | Horizontal |
| 3 | 6216.71 | 43.86 | -13.47 | 74.00 | 30.14 | 174 | 297 | Horizontal |
| 4 | 7468.82 | 37.33 | -9.80 | 54.00 | 16.67 | 165 | 290 | Horizontal |
| 5 | 13005.1 | 56.60 | 2.43 | 74.00 | 17.40 | 187 | 32 | Horizontal |
| 6 | 15089.4 | 47.83 | 3.42 | 54.00 | 6.17 | 192 | 358 | Horizontal |

Final Data List

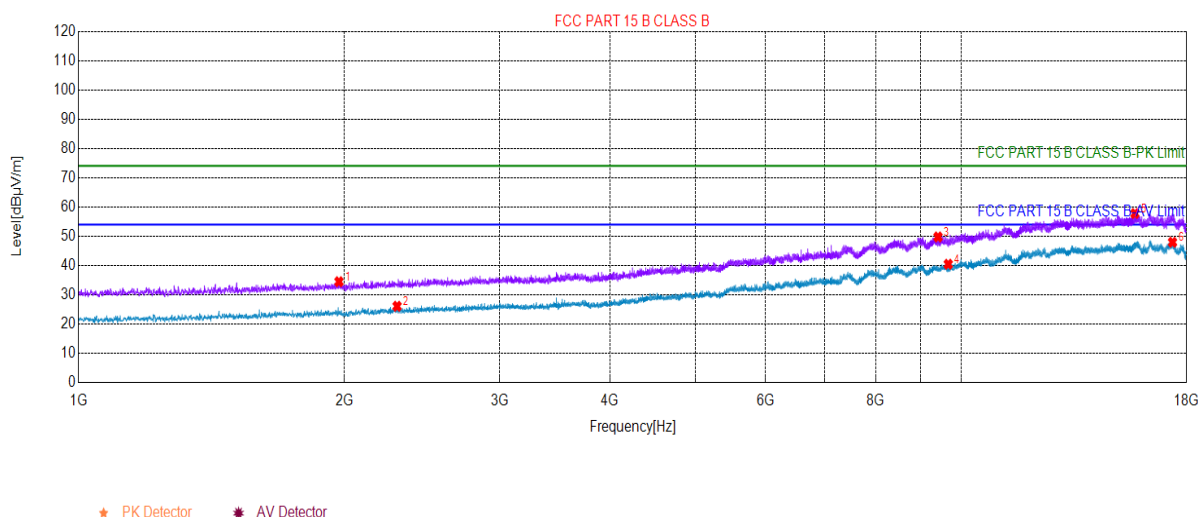


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Mode:c; Polarization:Vertical



Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1 | 1972.44 | 34.47 | -28.12 | 74.00 | 39.53 | 241 | 245 | Vertical |
| 2 | 2295.46 | 26.08 | -27.07 | 54.00 | 27.92 | 285 | 16 | Vertical |
| 3 | 9411.17 | 49.76 | -5.10 | 74.00 | 24.24 | 265 | 176 | Vertical |
| 4 | 9665.33 | 40.44 | -4.49 | 54.00 | 13.56 | 287 | 16 | Vertical |
| 5 | 15730.3 | 57.76 | 4.00 | 74.00 | 16.24 | 265 | 168 | Vertical |
| 6 | 17349.7 | 47.94 | 1.76 | 54.00 | 6.06 | 281 | 108 | Vertical |

Final Data List



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3 Equipment List

| CE Test System | | | | | |
|-----------------------------------|---------------|-------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Shielding Room | Brilliant-emc | N/A | XAW03-35-01 | 2019-09-11 | 2022-09-10 |
| Test receiver | ROHDE&SCHWARZ | ESR | XAW01-08-01 | 2020-09-11 | 2021-09-10 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | XAW01-04-01 | 2020-08-04 | 2021-08-03 |
| 5G UXM | Keysight | E7515B | XAW01-19-02 | 2020-09-11 | 2021-09-10 |
| Temperature and humidity meter | MingGao | TH101B | XAW01-01-01 | 2020-11-06 | 2021-11-05 |
| Measurement Software | Tonscend | TS+ CE V2.5 | XAW02-05-02 | NCR | NCR |
| CMW500 Wideband Radio Comm Tester | ROHDE&SCHWARZ | CMW 500 | XAW01-03-02 | 2021/4/1 | 2022/3/31 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | XAW01-04-01 | 2020/8/4 | 2021/8/3 |



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| RE Test System | | | | | |
|-------------------------------------|----------------|-----------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Semi-Anechoic Chamber | Brilliant-emc | N/A | XAW03-35-01 | 2019-09-11 | 2022-09-10 |
| MXA signal analyzer | Keysight | N9020A | XAW01-06-01 | 2021-04-01 | 2022-03-31 |
| Spectrum Analyzer | Keysight | N9020B | XAW01-11-03 | 2021-04-01 | 2022-03-31 |
| Spectrum Analyzer | ROHDE&SCHWARZ | FSV3044 | 101146 | 2021-06-08 | 2022-06-08 |
| Radio communication analyzer | ROHDE&SCHWARZ | CMW 500 | XAW01-03-02 | 2021-04-01 | 2022-03-31 |
| Test receiver | ROHDE&SCHWARZ | ESR | XAW01-08-01 | 2020-09-11 | 2021-09-10 |
| Receiving antenna (30MHz-3GHz) | Schwarzbeck | VULB 9163 | XAW01-09-01 | 2019-10-13 | 2021-10-12 |
| Receiving antenna (1GHz~18GHz) | Schwarzbeck | BBHA 9120D | XAW01-09-02 | 2019-10-13 | 2021-10-12 |
| Receiving antenna (15GHz~40GHz) | Schwarzbeck | BBHA 9170 | XAW01-09-03 | 2019-10-13 | 2021-10-12 |
| Directional antenna rack controller | Max-Full | MF-7802BS | XAW03-03-01 | NCR | NCR |
| High-speed antenna rack controller | Max-Full | MF-7802 | XAW03-04-01 | NCR | NCR |
| Amplifier | Tonscend | TAP00903040 | XAW01-41-01 | 2020-10-26 | 2021-10-25 |
| Amplifier | Tonscend | TAP01018048 | XAW01-41-02 | 2020-10-26 | 2021-10-25 |
| Amplifier | Tonscend | TAP18040048 | XAW01-41-03 | 2020-10-27 | 2021-10-26 |
| Amplifier | Shanghai Steed | YX28980930 | XAW01-41-06 | 2020-10-26 | 2021-10-25 |
| 5G UXM | Keysight | E7515B | XAW01-04-01 | 2020-09-11 | 2021-09-10 |
| Temperature and humidity meter | MingGao | TH101B | XAW01-01-01 | 2020-11-06 | 2021-11-05 |
| Measurement Software | Tonscend | TS+ RE V3.0.0.2 | XAW02-05-01 | NCR | NCR |
| Loop Antenna | Schwarzbeck | FMZB 1519B | XAW01-48-02 | 2021/6/10 | 2022/6/9 |



4 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------|--------------------------------------|
| 1 | Conduction Emission | $\pm 3.0\text{dB}$ (150kHz to 30MHz) |
| 2 | Radiated Emission | $\pm 4.8\text{dB}$ (Below 1GHz) |
| | | $\pm 4.8\text{dB}$ (1GHz to 6GHz) |
| | | $\pm 4.5\text{dB}$ (6GHz to 18GHz) |
| | | $\pm 5.02\text{dB}$ (Above 18GHz) |



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5 Photographs

5.1 Test Setup

Refer to Appendix A Setup Photos.

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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