

Report No.: XZR/2021/3001402 Page: 1 of 29

TEST REPORT

| Application No: | ZR/2021/30014 |
|--------------------------|---|
| Applicant: | vivo Mobile Communication Co., Ltd. |
| Address of Applicant | No.168 Jinghai East Rd., Chang'an, Dongguan, Guangdong, China |
| Manufacturer: | vivo Mobile Communication Co., Ltd. |
| Address of Manufacturer: | No.168 Jinghai East Rd., Chang'an, Dongguan, Guangdong, China |
| EUT Description: | Mobile Phone |
| Model No.: | V2050 |
| Trade Mark: | vivo |
| FCC ID: | 2AUCY-V2066 |
| Standard(s) : | 47 CFR Part 15, Subpart B |
| Date of Receipt: | 2021/3/29 |
| Date of Test: | 2021/3/29 to 2021/4/14 |
| Date of Issue: | 2020/4/28(for original report XZR/2021/3001401) |
| | 2020/5/10(for report XZR/2021/3001402) |
| Test Result: | Pass* |

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

Authorized Signature:

Simon Ling

Simon Ling Wireless Laboratory Manager



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> Report No.: XZR/2021/3001402 Page: 2 of 29

| | Revision Record | | | |
|---------|-----------------|-----------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2021/5/10 | | Original |
| | | | | |
| | | | | |

| Authorized for issue by: | |
|--------------------------|--|
| Prepared By | Leah Chen (Leah Chen) / Engineer |
| Checked By | Daniel Wang (Daniel Wang) /Reviewer |



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Report No.: XZR/2021/3001402 Page: 3 of 29

Test Summary

| Emission Part | | | | |
|---|------------------------------|-----------------|-------------|--------|
| ltem | 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 |

Remark :

Model No.: V2050, V2066

This test report (Ref. No.: XZR/2021/3001402) is based on the original test report (Ref. No.: XZR/2021/3001401).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

| NO | Initial | Variant | Difference Description |
|----|---------|---------|--|
| 1 | V2066 | V2050 | The hardware is the same, V2050 the software turn on the 5G band |

Considering to the difference, pre-scan was performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report all items do not need to retest and all test data in this report are base on the previous report with report number XZR/2021/3001401.



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Report No.: XZR/2021/3001402 Page: 4 of 29

Contents

| 1 | GEN | ERAL INFORMATION | 5 |
|---|---|---|---|
| | 1.1 1.2 1.3 1.4 1.5 | DESCRIPTION OF SUPPORT UNITS TEST LOCATION TEST FACILITY DEVIATION FROM STANDARDS ABNORMALITIES FROM STANDARD CONDITIONS | 7 7 7 7 |
| 2 | EMIS | SION TEST RESULTS | 8 |
| | 2.1 2.1.2 2.1.3 2.2 2.2.1 2.2.2 2.2.3 2.3 2.3 2.3 2.3.1 2.3.2 2.3.3 | CONDUCTED EMISSIONS AT MAINS TERMINALS (150kHz-30MHz) E.U.T. Operation Test Setup Procedures Measurement Data RADIATED EMISSIONS (30MHz-1GHz) E.U.T. Operation Test Setup Procedures Measurement Data RADIATED EMISSIONS (ABOVE 1GHz) E.U.T. Operation Test Setup Procedures Measurement Data Test Setup Procedures Measurement Data | 8 9 9 12 14 15 15 18 20 21 21 |
| 3 | EQU | IPMENT LIST | 24 |
| 4 | MEA | SUREMENT UNCERTAINTY | 28 |
| 5 | PHO | TOGRAPHS | 29 |
| | 5.1 5.2 | TEST SETUP EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS) | 29 29 |



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Report No.: XZR/2021/3001402 Page: 5 of 29

General Information 1

| Product Name: | Mobile Phone | | |
|-------------------|--|-----------|-----------|
| Model No.(EUT): | V2050 | | |
| Trade Mark: | vivo | | |
| Hardware Version: | MP_0.1 | | |
| Software Version: | PD2083CF_EX_A_3.6.2 | | |
| | 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 |
| Frequency Bands: | LTE Band 12 | 699~716 | 729~746 |
| | LTE Band 17 | 704~716 | 734~746 |
| | 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 |
| | Wi-Fi 2.4G | 2412~2462 | 2412~2462 |
| | Bluetooth | 2402~2480 | 2402~2480 |
| | Wi-Fi 5G | 5150~5850 | 5150~5850 |
| | GNSS(GPS+Glonass + Beidou+Galileo+SBAS) | 1599~1610 | |



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Report No.: XZR/2021/3001402 Page: 6 of 29

Accessory:

| Adapter No. | Model No. | Specification | |
|--|--------------|----------------------|--|
| 1 | V3330L0A1-US | DC5V/2A-9V/2A-11V/3A | |
| 2 | V3330L0A1-EU | DC5V/2A-9V/2A-11V/3A | |
| 3 V3330L0A1-UK DC5V/2A-9V/2A-11V/3A | | | |
| Remark. Adapter 1 were selected to conduct test in this report the others are with same design to both | | | |

Remark: Adapter 1 were selected to conduct test in this report, the others are with same design to both adapters.

| Battery No. | Model No. | Manufacturer |
|-------------|-----------|---------------------------------|
| 1 | B-P9 | Dongguan NVT Technology Co.,Ltd |

| Cable No. | Model No. | Manufacturer |
|-----------|-----------|--------------|
| 1 | BK-C-33 | vivo |

| Earphone No. | Model No. | Manufacturer |
|--------------|-----------|--------------|
| 1 | XE160 | / |



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Report No.: XZR/2021/3001402 Page: 7 of 29

1.1 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|------------------|------------------|
| Laptop | Lenovo | L480 | REF. No.SEA1800 |
| Mouse | Lenovo | 3D optical Mouse | REF. No.:SEA2400 |
| Router | NETGEAR | R6020 | REF. No.SEA2200 |

1.2 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.

1.3 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.

| Test Site No.: | SG | S Xian Site No. | FCC Designation No. |
|----------------|---------|-----------------|---------------------|
| | CO01-XA | 03CH01-XA | CN1271 |

1.4 Deviation from Standards None

1.5 Abnormalities from Standard Conditions

None



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Report No.: XZR/2021/3001402 Page: 8 of 29

2 Emission Test Results

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

Cable+adapter/earphone

| Teet Beguirement: | 47 CEP Dort 15 Subport P |
|-------------------|--|
| rest 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 Environ | ment: | | | | | | | | | |
|-------------------------------|---|---------------------------|-----------------------------|-------------------------|------|------|--|--|--|--|
| Temperature: | 18.9 °C | Humidity: | 55.1 % RH | Atmospheric Pressure: | 1000 | mbar | | | | |
| Pretest these | a: Transfer data | a between th | e EUT and the P | C+USB cable | | | | | | |
| modes to find the worst case: | b: GSM 850 ldl +battery1+Cabl | e+BT+WLAI le+adapter/e | N +GPS Rx+playi earphone | ng MP4 (SD card) | | | | | | |
| | c: WCDMA Band V Idle +BT+WLAN +GPS Rx+playing MP4 (SD card) +battery1+Cable+adapter/earphone | | | | | | | | | |
| | d: LTE Band 5 Cable+adapter/ | ldle+BT+WL /earphone | AN +GPS Rx+ca | mera (Front) +battery1+ | | | | | | |
| | e: LTE Band 12 Cable+adapter/ | 2 Idle+BT+W /earphone | /LAN +GPS Rx+c | amera (Front) +battery1 | + | | | | | |
| | f: LTE Band 17 Cable+adapter/ | Idle+BT+W /earphone | LAN +GPS Rx+ca | amera (Back) +battery1+ | | | | | | |
| | g: LTE Band 26 Cable+adapter/ | ∂ Idle+BT+W ⁄earphone | /LAN +GPS Rx+c | amera (Back) +battery1- | F | | | | | |
| The worst case | a: Transfer data | a between th | ne EUT and the P | C+USB cable | | | | | | |
| for final test: | f: LTE Band 17 | Idle+BT+W | LAN +GPS Rx+ca | amera (Back) +battery1+ | | | | | | |



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Report No.: XZR/2021/3001402 Page: 9 of 29

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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Report No.: XZR/2021/3001402 Page: 10 of 29



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 | 0.1648 | 10.10 | 48.91 | 65.22 | 16.31 | 36.40 | 55.22 | 18.82 | | | | |
| 2 | 0.4189 | 10.10 | 41.24 | 57.47 | 16.23 | 32.35 | 47.47 | 15.12 | | | | |
| 3 | 1.1787 | 10.10 | 28.44 | 56.00 | 27.56 | 18.21 | 46.00 | 27.79 | | | | |
| 4 | 3.9783 | 10.10 | 32.21 | 56.00 | 23.79 | 23.45 | 46.00 | 22.55 | | | | |
| 5 | 11.7845 | 10.10 | 22.76 | 60.00 | 37.24 | 16.70 | 50.00 | 33.30 | | | | |
| 6 | 16.2104 | 10.11 | 28.76 | 60.00 | 31.24 | 21.60 | 50.00 | 28.40 | | | | |



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Report No.: XZR/2021/3001402 Page: 11 of 29



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 | 0.1555 | 10.10 | 50.43 | 65.70 | 15.27 | 38.19 | 55.70 | 17.51 | | | | |
| 2 | 0.3008 | 10.10 | 41.44 | 60.22 | 18.78 | 31.09 | 50.22 | 19.13 | | | | |
| 3 | 0.6915 | 10.10 | 28.51 | 56.00 | 27.49 | 19.46 | 46.00 | 26.54 | | | | |
| 4 | 3.8044 | 10.10 | 30.89 | 56.00 | 25.11 | 22.90 | 46.00 | 23.10 | | | | |
| 5 | 8.3263 | 10.10 | 23.31 | 60.00 | 36.69 | 16.94 | 50.00 | 33.06 | | | | |
| 6 | 16.2757 | 10.11 | 28.87 | 60.00 | 31.13 | 22.09 | 50.00 | 27.91 | | | | |



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Report No.: XZR/2021/3001402 Page: 12 of 29



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 | 0.1621 | 10.10 | 43.09 | 65.36 | 22.27 | 25.68 | 55.36 | 29.68 | | | | |
| 2 | 0.5396 | 10.10 | 39.96 | 56.00 | 16.04 | 26.08 | 46.00 | 19.92 | | | | |
| 3 | 1.0819 | 10.10 | 37.88 | 56.00 | 18.12 | 23.98 | 46.00 | 22.02 | | | | |
| 4 | 1.6768 | 10.10 | 35.98 | 56.00 | 20.02 | 19.36 | 46.00 | 26.64 | | | | |
| 5 | 4.7375 | 10.10 | 29.70 | 56.00 | 26.30 | 18.09 | 46.00 | 27.91 | | | | |
| 6 | 14.8557 | 10.11 | 42.04 | 60.00 | 17.96 | 28.17 | 50.00 | 21.83 | | | | |



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Report No.: XZR/2021/3001402 Page: 13 of 29



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 | 0.1612 | 10.10 | 40.75 | 65.40 | 24.65 | 27.17 | 55.40 | 28.23 | | | | |
| 2 | 0.6164 | 10.10 | 35.59 | 56.00 | 20.41 | 20.50 | 46.00 | 25.50 | | | | |
| 3 | 1.1830 | 10.10 | 40.01 | 56.00 | 15.99 | 28.25 | 46.00 | 17.75 | | | | |
| 4 | 3.4519 | 10.10 | 31.93 | 56.00 | 24.07 | 22.46 | 46.00 | 23.54 | | | | |
| 5 | 7.5397 | 10.10 | 27.72 | 60.00 | 32.28 | 17.25 | 50.00 | 32.75 | | | | |
| 6 | 14.8496 | 10.11 | 41.22 | 60.00 | 18.78 | 27.92 | 50.00 | 22.08 | | | | |



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Report No.: XZR/2021/3001402 Page: 14 of 29

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 ° | O. | Humidity: | 66.5 % RH | Atmospheric Pressure: | 1010 | mbar | | | | | |
|-------------------------------|---|-------------|------------|-----------------|-----------------------|------|------|--|--|--|--|--|
| Pretest these | a: Transfer data between the EUT and the PC+USB cable | | | | | | | | | | | |
| modes to find the worst case: | b: GSM 850 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +battery1+Cable+adapter/earphone | | | | | | | | | | | |
| | c: WCDMA Band V Idle +BT+WLAN +GPS Rx+playing MP4 (SD card) +battery1+Cable+adapter/earphone | | | | | | | | | | | |
| | d: LTE Band 5 Idle+BT+WLAN +GPS Rx+camera (Front) +battery1+ Cable+adapter/earphone | | | | | | | | | | | |
| | e: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front) +battery1+ Cable+adapter/earphone | | | | | | | | | | | |
| | f: LTE Band 17 Idle+BT+WLAN +GPS Rx+camera (Back) +battery1+ Cable+adapter/earphone | | | | | | | | | | | |
| | g: LTE Band 26 Idle+BT+WLAN +GPS Rx+camera (Back) +battery1+ Cable+adapter/earphone | | | | | | | | | | | |
| The worst case | a: Tra | ansfer data | between th | e EUT and the P | C+USB cable | | | | | | | |
| for final test: | d: LTE Band 5 Idle+BT+WLAN +GPS Rx+camera (Front) +battery1+ Cable+adapter/earphone | | | | | | | | | | | |



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Report No.: XZR/2021/3001402 Page: 15 of 29

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. Quasipeak 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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 邮编: 710086



Report No.: XZR/2021/3001402 Page: 16 of 29



Suspected List

QP Detector

- Horizontal PK

| Suspected List | | | | | | | | | | | | | |
|----------------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|--|--|--|--|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | | | | | |
| 1 | 68.6137 | 24.47 | -30.16 | 40.00 | 15.53 | 352 | 360 | Horizontal | | | | | |
| 2 | 100.630 | 21.76 | -28.13 | 43.50 | 21.74 | 294 | 179 | Horizontal | | | | | |
| 3 | 167.961 | 30.14 | -30.27 | 43.50 | 13.36 | 246 | 54 | Horizontal | | | | | |
| 4 | 304.370 | 32.12 | -25.77 | 46.00 | 13.88 | 258 | 1 | Horizontal | | | | | |
| 5 | 479.976 | 30.96 | -21.31 | 46.00 | 15.04 | 164 | 74 | Horizontal | | | | | |
| 6 | 884.935 | 31.50 | -14.45 | 46.00 | 14.50 | 381 | 79 | Horizontal | | | | | |



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Report No.: XZR/2021/3001402 Page: 17 of 29



Mode:a; Polarization:Vertical

- OP Limit — Vertical PK QP Detector

Suspected List

| Suspe | Suspected List | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | |
| 1 | 68.6137 | 20.74 | -30.16 | 40.00 | 19.26 | 152 | 156 | Vertical | |
| 2 | 111.496 | 19.93 | -28.35 | 43.50 | 23.57 | 351 | 164 | Vertical | |
| 3 | 167.961 | 26.26 | -30.27 | 43.50 | 17.24 | 382 | 57 | Vertical | |
| 4 | 362.776 | 30.66 | -23.20 | 46.00 | 15.34 | 246 | 8 | Vertical | |
| 5 | 589.996 | 34.49 | -18.97 | 46.00 | 11.51 | 254 | 21 | Vertical | |
| 6 | 948.967 | 37.75 | -13.88 | 46.00 | 8.25 | 102 | 178 | Vertical | |



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Report No.: XZR/2021/3001402 Page: 18 of 29



- QP Limit QP Detector

Suspected List

| Suspe | Suspected List | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | |
| 1 | 75.5991 | 21.48 | -31.51 | 40.00 | 18.52 | 320 | 245 | Horizontal | |
| 2 | 94.2268 | 27.31 | -29.11 | 43.50 | 16.19 | 290 | 103 | Horizontal | |
| 3 | 109.555 | 27.25 | -28.12 | 43.50 | 16.25 | 213 | 111 | Horizontal | |
| 4 | 196.097 | 23.52 | -28.31 | 43.50 | 19.98 | 225 | 230 | Horizontal | |
| 5 | 300.296 | 26.54 | -25.90 | 46.00 | 19.46 | 122 | 87 | Horizontal | |
| 6 | 447.765 | 27.19 | -22.05 | 46.00 | 18.81 | 200 | 286 | Horizontal | |



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Report No.: XZR/2021/3001402 Page: 19 of 29



Mode:d; Polarization:Vertical

- OP Limit — Vertical PK QP Detector

Suspected List

| Suspe | Suspected List | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | |
| 1 | 33.2987 | 24.99 | -29.20 | 40.00 | 15.01 | 261 | 337 | Vertical | |
| 2 | 40.0900 | 28.64 | -27.46 | 40.00 | 11.36 | 240 | 313 | Vertical | |
| 3 | 95.1970 | 28.56 | -28.95 | 43.50 | 14.94 | 325 | 267 | Vertical | |
| 4 | 218.217 | 20.34 | -27.56 | 46.00 | 25.66 | 330 | 348 | Vertical | |
| 5 | 447.765 | 27.24 | -22.05 | 46.00 | 18.76 | 228 | 40 | Vertical | |
| 6 | 948.967 | 34.18 | -13.88 | 46.00 | 11.82 | 273 | 47 | Vertical | |



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Report No.: XZR/2021/3001402 Page: 20 of 29

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 to18000MHz |

2.3.1 E.U.T. Operation

Operating Environment:

| Temperature: | 21.7 °C | Humidity: | 56.4 % RH | Atmospheric Pressure: | 1010 | mbar | | | | |
|-------------------------------|---|---|---------------------------|-------------------------|------|------|--|--|--|--|
| Pretest these | a: Transfer data | a between th | e EUT and the F | PC+USB cable | | | | | | |
| modes to find the worst case: | b: GSM 850 Idl +battery1+Cabl | e+BT+WLAN e+adapter/e | N +GPS Rx+play arphone | ving MP4 (SD card) | | | | | | |
| | c: WCDMA Bar +battery1+Cabl | nd V Idle +B ⁻ e+adapter/e | T+WLAN +GPS arphone | Rx+playing MP4 (SD carc | I) | | | | | |
| | d: LTE Band 5 Idle+BT+WLAN +GPS Rx+camera (Front) +battery1+ Cable+adapter/earphone | | | | | | | | | |
| | e: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front) +battery1+ Cable+adapter/earphone | | | | | | | | | |
| | f: LTE Band 17 Idle+BT+WLAN +GPS Rx+camera (Back) +battery1+ Cable+adapter/earphone | | | | | | | | | |
| | g: LTE Band 26 Idle+BT+WLAN +GPS Rx+camera (Back) +battery1+ Cable+adapter/earphone | | | | | | | | | |
| The worst case | a: Transfer data | a: Transfer data between the EUT and the PC+USB cable | | | | | | | | |
| for final test: | g: LTE Band 26 Idle+BT+WLAN +GPS Rx+camera (Back) +battery1+ Cable+adapter/earphone | | | | | | | | | |



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Report No.: XZR/2021/3001402 Page: 21 of 29

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.



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Report No.: XZR/2021/3001402 Page: 22 of 29



- PK Limit - AV Limit - Horizontal PK ---- Horizontal AV ✤ PK Detector * AV Detector

Suspected List

| Suspe | Suspected List | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | |
| 1 | 2094.00 | 27.13 | -26.66 | 54.00 | 26.87 | 152 | 162 | Horizontal | |
| 2 | 2268.26 | 37.61 | -26.05 | 74.00 | 36.39 | 351 | 197 | Horizontal | |
| 3 | 3695.48 | 37.34 | -20.57 | 54.00 | 16.66 | 260 | 206 | Horizontal | |
| 4 | 8312.06 | 53.33 | -6.31 | 74.00 | 20.67 | 228 | 20 | Horizontal | |
| 5 | 14782.5 | 58.35 | 1.99 | 74.00 | 15.65 | 276 | 110 | Horizontal | |
| 6 | 15108.1 | 48.89 | 1.93 | 54.00 | 5.11 | 121 | 170 | Horizontal | |



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Report No.: XZR/2021/3001402 Page: 23 of 29



- AV Limit - Vertical PK ---- Vertical AV - PK Limit * AV Detector ✤ PK Detector

Suspected List

| Suspe | Suspected List | | | | | | | | |
|-------|----------------|----------|--------|----------|--------|--------|-------|----------|--|
| NO. | Freq. | Level | Factor | Limit | Margin | Height | Angle | Polority | |
| | [MHz] | [dBµV/m] | [dB] | [dBµV/m] | [dB] | [cm] | [°] | Folanty | |
| 1 | 2102.50 | 27.50 | -26.61 | 54.00 | 26.50 | 261 | 308 | Vertical | |
| 2 | 2305.66 | 37.37 | -25.75 | 74.00 | 36.63 | 260 | 111 | Vertical | |
| 3 | 3511.87 | 36.01 | -21.02 | 54.00 | 17.99 | 194 | 274 | Vertical | |
| 4 | 6702.08 | 50.64 | -10.00 | 74.00 | 23.36 | 312 | 350 | Vertical | |
| 5 | 14143.3 | 57.93 | 2.92 | 74.00 | 16.07 | 205 | 274 | Vertical | |
| 6 | 14851.4 | 49.21 | 2.51 | 54.00 | 4.79 | 213 | 153 | Vertical | |



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Report No.: XZR/2021/3001402 Page: 24 of 29



Mode:g; Polarization:Horizontal

- PK Limit - AV Limit - Horizontal PK ---- Horizontal AV ✤ PK Detector * AV Detector

Suspected List

| Suspe | Suspected List | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | |
| 1 | 2485.87 | 38.87 | -25.05 | 74.00 | 35.13 | 150 | 154 | Horizontal | |
| 2 | 2530.92 | 29.34 | -24.59 | 54.00 | 24.66 | 126 | 358 | Horizontal | |
| 3 | 3743.08 | 35.84 | -19.96 | 54.00 | 18.16 | 320 | 328 | Horizontal | |
| 4 | 9248.81 | 53.53 | -4.22 | 74.00 | 20.47 | 254 | 28 | Horizontal | |
| 5 | 12113.4 | 47.00 | 0.47 | 54.00 | 7.00 | 268 | 39 | Horizontal | |
| 6 | 15278.1 | 58.41 | 1.69 | 74.00 | 15.59 | 121 | 258 | Horizontal | |



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Mode:g; Polarization:Vertical

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.

Report No.: XZR/2021/3001402 Page: 25 of 29



- PK Limit - AV Limit - Vertical PK - Vertical AV

Suspected List

| Suspe | Suspected List | | | | | | | | |
|-------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|--|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity | |
| 1 | 2438.27 | 39.47 | -25.19 | 74.00 | 34.53 | 251 | 2 | Vertical | |
| 2 | 2812.29 | 31.30 | -22.81 | 54.00 | 22.70 | 264 | 200 | Vertical | |
| 3 | 7437.37 | 42.51 | -8.15 | 54.00 | 11.49 | 394 | 139 | Vertical | |
| 4 | 7624.38 | 52.19 | -8.13 | 74.00 | 21.81 | 165 | 139 | Vertical | |
| 5 | 13958.8 | 48.81 | 3.13 | 54.00 | 5.19 | 245 | 166 | Vertical | |
| 6 | 14862.4 | 58.42 | 2.43 | 74.00 | 15.58 | 213 | 310 | Vertical | |



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Report No.: XZR/2021/3001402 Page: 26 of 29

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 | | | |



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Report No.: XZR/2021/3001402 Page: 27 of 29

| 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 applyzor | Kavaisht | NOODOA | | 2021-04-01 | 2022-03-31 | | | |
| MAA Signal analyzer | Keysight | N9020A | XAVV01-00-01 | 2020-04-02 | 2021-04-01 | | | |
| Spectrum Analyzer | Keysight | N9020B | XAW01-11-03 | 2020-04-15 | 2021-04-14 | | | |
| Radio communication | | | X A WO1 02 02 | 2021-04-01 | 2022-03-31 | | | |
| analyzer | RUNDE&SCHWARZ | | XAVV01-03-02 | 2020-04-02 | 2021-04-01 | | | |
| 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 | | | |



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Report No.: XZR/2021/3001402 Page: 28 of 29

4 Measurement Uncertainty

| No. | Item | Measurement Uncertainty | | |
|---------------------|---------------------|---------------------------|--|--|
| 1 | Conduction Emission | ± 3.0dB (150kHz to 30MHz) | | |
| 2 Radiated Emission | | ± 4.8dB (Below 1GHz) | | |
| | Padiated Emission | ± 4.8dB (1GHz to 6GHz) | | |
| | Radiated Emission | ± 4.5dB (6GHz to 18GHz) | | |
| | | ± 5.02dB (Above 18GHz) | | |



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Report No.: XZR/2021/3001402 Page: 29 of 29

5 Photographs

5.1 Test Setup

Refer to Appendix A JBP Setup Photos.

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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