# TEST REPORT

| | |
|---|---|
| **Application No:** | ZR/202070004 |
| **Applicant:** | LG Electronics USA, Inc. |
| **Address of Applicant** | 111 Sylvan Avenue, North Building Englewood Cliffs, NJ 07632 |
| **Manufacturer:** | Huaqin Telecom Technology Co.,Ltd. |
| **Address of Manufacturer:** | No.1 Building, No.9 Building, No.399,Keyuan Road,Zhangjiang Hi-tech Park,Shanghai,P.R.China |
| **EUT Name:** | Mobile handset |
| **Model No.:** | LM-K520EMW |
| **Trade mark:** | LG |
| **Standard(s) :** | 47 CFR Part 15, Subpart B |
| **Date of Receipt:** | 2020/7/2 |
| **Date of Test:** | 2020/7/3 to 2020/7/23 |
| **Date of Issue:** | 2021/8/16 |
| **Test Result:** | **Pass*** |

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

Authorized Signature:

Derek Yang
Wireless Laboratory Manager

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| Revision Record | | | | |
|---|---|---|---|---|
| **Version** | **Chapter** | **Date** | **Modifier** | **Remark** |
| 01 | | 2020/7/31 | | Original |
| 02 | | 2021/5/26 | Sherlock Fang | 1. The test site information of lab B(XI 'AN) added in section 4.5 and 4.6<br>2. Modify data conversion error of antenna height<br>3.Update equipment list |
| 03 | | 2021/8/16 | Sherlock Fang | 1. Update Support Units<br>2. Remove the information of lab A(SZ) in section 4.5 and 4.6 |

| **Authorized for issue by:** | | | |
|---|---|---|---|
| **Prepared By** | | Sherlock Fang<br>**(Sherlock Fang) /Project Engineer** | |
| **Checked By** | | **(Jim Huang) / Reviewer** | |

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# 2 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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# 3 Contents

Page

**1 COVER PAGE ..... 1**

**2 TEST SUMMARY ..... 3**

**3 CONTENTS ..... 4**

**4 GENERAL INFORMATION ..... 5**

4.1 GENERAL DESCRIPTION OF EUT ..... 5
4.2 DESCRIPTION OF SUPPORT UNITS ..... 5
4.3 TEST MODES ..... 6
4.4 MEASUREMENT UNCERTAINTY ..... 6
4.5 TEST LOCATION ..... 6
4.6 TEST FACILITY ..... 7
4.7 DEVIATION FROM STANDARDS ..... 7
4.8 ABNORMALITIES FROM STANDARD CONDITIONS ..... 7

**5 EQUIPMENT LIST ..... 8**

**6 EMISSION TEST RESULTS ..... 9**

6.1 CONDUCTED EMISSIONS AT MAINS TERMINALS (150KHZ-30MHZ) ..... 9
*6.1.1 E.U.T. Operation ..... 9*
*6.1.2 Test Setup Diagram ..... 9*
*6.1.3 Measurement Data ..... 9*
6.2 RADIATED EMISSIONS (30MHZ-1GHZ) ..... 12
*6.2.1 E.U.T. Operation ..... 12*
*6.2.2 Test Setup Diagram ..... 12*
*6.2.3 Measurement Data ..... 12*
6.3 RADIATED EMISSIONS (ABOVE 1GHZ) ..... 15
*6.3.1 E.U.T. Operation ..... 15*
*6.3.2 Test Setup Diagram ..... 15*
*6.3.3 Measurement Data ..... 15*

**7 PHOTOGRAPHS ..... 18**

7.1 TEST SETUP PHOTOS ..... 18
7.2 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS) ..... 18

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# 4 General Information

## 4.1 General Description of EUT

| | |
|---|---|
| EUT Description:: | Mobile handset |
| Model No.: | LM-K520EMW |
| Trade Mark: | LG |
| Sample Type: | ☒ Portable Device, ☐Module |
| Antenna Type: | ☐ External, ☒ Integrated |

| | | | |
|---|---|---|---|
| Battery | | | |
| Battery | ATL | BL-T51 | 3.87V; 3900mAh |
| Earphone | | | |
| Earphone | Cresyn | EAB64468444 | |
| USB Cable | | | |
| USB Cable1 | Ningbo Broad | DC15WB-G | 1.0m shielded cable without core |
| USB Cable2 | Luxshare | DC15WX-G | 1.0m shielded cable without core |
| Adapter | | | |
| Adapter1 (US) | Phihong | MCS-V02WH | I/P: 100-240 Vac, 0.4A ,50/60HZ<br>O/P: 5Vdc 2A |
| Adapter2 (US) | Aohai | MCS-V02WA2 | I/P: 100-240 Vac, 0.4A ,50/60HZ<br>O/P: 5Vdc 2A |
| Adapter3 (US) | Sunlin | MCS-V02WR | I/P: 100-240 Vac, 0.4A ,50/60HZ<br>O/P: 5Vdc 2A |

## 4.2 Description of Support Units

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

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## 4.3 Test modes

| | |
|---|---|
| Pretest these modes to find the worst case and show the worse data in the test items: | a: Transfer data between the EUT and the PC+USB cable1<br>b: Transfer data between the EUT and the PC+USB cable2<br>c: GSM 850 Idle+BT+WLAN+USB cable(worst)+GPS RX+FM RX+playing MP4+earphone+Adaptor1<br>d: GSM 1900 Idle+BT+WLAN+USB cable(worst)+GPS RX+FM RX+camera(Front)+earphone+Adaptor2<br>e: WCDMA Band II Idle+BT+WLAN+USB cable(worst)+GPS RX+FM RX+camera(rear)+earphone+Adaptor3<br>f: WCDMA Band V Idle+BT+WLAN +USB cable(worst)+GPS RX+FM RX+earphone+Adaptor(worst) |

## 4.4 Measurement Uncertainty

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

## 4.5 Test Location

| | |
|---|---|
| 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: | Ben Huang, Leah Chen |

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## 4.6 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.**

## 4.7 Deviation from Standards

None

## 4.8 Abnormalities from Standard Conditions

None

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# 5 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 |
| Radio communication analyzer | ROHDE&SCHWARZ | CMW 500 | XAW01-03-02 | 2020-04-02 | 2021-04-01 |
| Test receiver | ROHDE&SCHWARZ | ESR | XAW01-08-01 | 2019-09-07 | 2020-09-06 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | XAW01-04-03 | 2019-12-11 | 2020-12-10 |
| Temperature and humidity meter | MingGao | TH101B | XAW01-01-01 | 2019-12-06 | 2020-12-05 |
| Measurement Software | Tonscend | TS+ CE V2.5 | XAW02-05-02 | NCR | NCR |

| 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 | 2020-04-02 | 2021-04-01 |
| Radio communication analyzer | ROHDE&SCHWARZ | CMW 500 | XAW01-03-02 | 2020-04-02 | 2021-04-01 |
| Test receiver | ROHDE&SCHWARZ | ESR | XAW01-08-01 | 2019-09-07 | 2020-09-06 |
| 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 | 2019-11-18 | 2020-11-17 |
| Amplifier | Tonscend | TAP01018048 | XAW01-41-02 | 2019-11-18 | 2020-11-17 |
| Amplifier | Tonscend | TAP18040048 | XAW01-41-03 | 2019-12-03 | 2020-12-02 |
| Amplifier | Shanghai Steed | YX28980930 | XAW01-41-06 | 2019-11-18 | 2020-11-17 |
| Temperature and humidity meter | MingGao | TH101B | XAW01-01-01 | 2019-12-06 | 2020-12-05 |
| Measurement Software | Tonscend | TS+ RE V3.0.0.2 | XAW02-05-01 | NCR | NCR |

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# 6 Emission Test Results

## 6.1 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 |

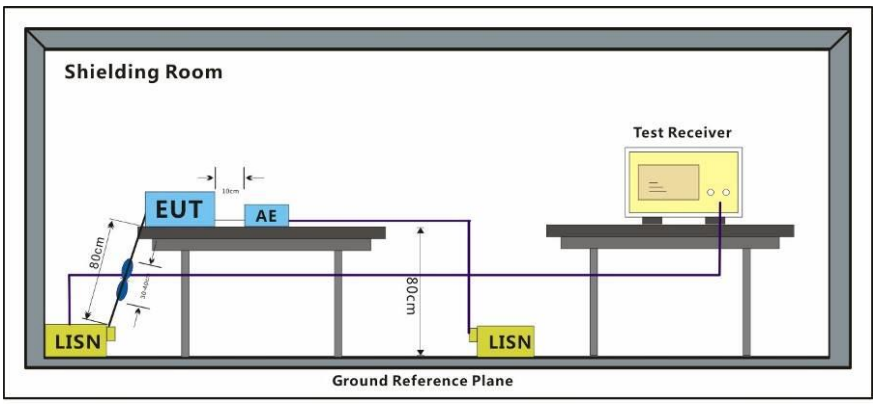
### 2.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.3 °C Humidity: 58.1 % RH Atmospheric Pressure: 1005 mbar

The worst case for final test: e: WCDMA Band V Idle+BT+WLAN +USB cable(worst)+GPS RX+FM RX+earphone+Adaptor(worst)

### 2.1.2 Test Setup Diagram




### 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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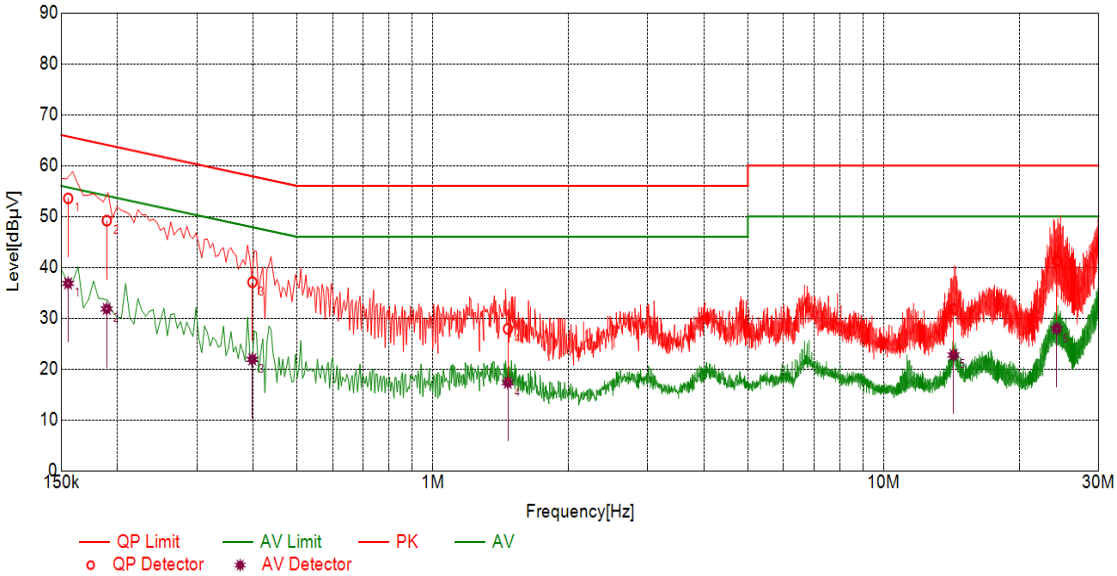
Mode:e; Line:Live Line




**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] | Type |
| 1 | 0.1554 | 10.10 | 53.56 | 65.71 | 12.15 | 36.83 | 55.71 | 18.88 | L |
| 2 | 0.1893 | 10.10 | 49.17 | 64.07 | 14.90 | 31.82 | 54.07 | 22.25 | L |
| 3 | 0.3982 | 10.10 | 37.09 | 57.89 | 20.80 | 21.90 | 47.89 | 25.99 | L |
| 4 | 1.4679 | 10.10 | 27.91 | 56.00 | 28.09 | 17.33 | 46.00 | 28.67 | L |
| 5 | 14.2958 | 10.11 | 31.82 | 60.00 | 28.18 | 22.77 | 50.00 | 27.23 | L |
| 6 | 24.2012 | 10.11 | 41.28 | 60.00 | 18.72 | 27.94 | 50.00 | 22.06 | L |

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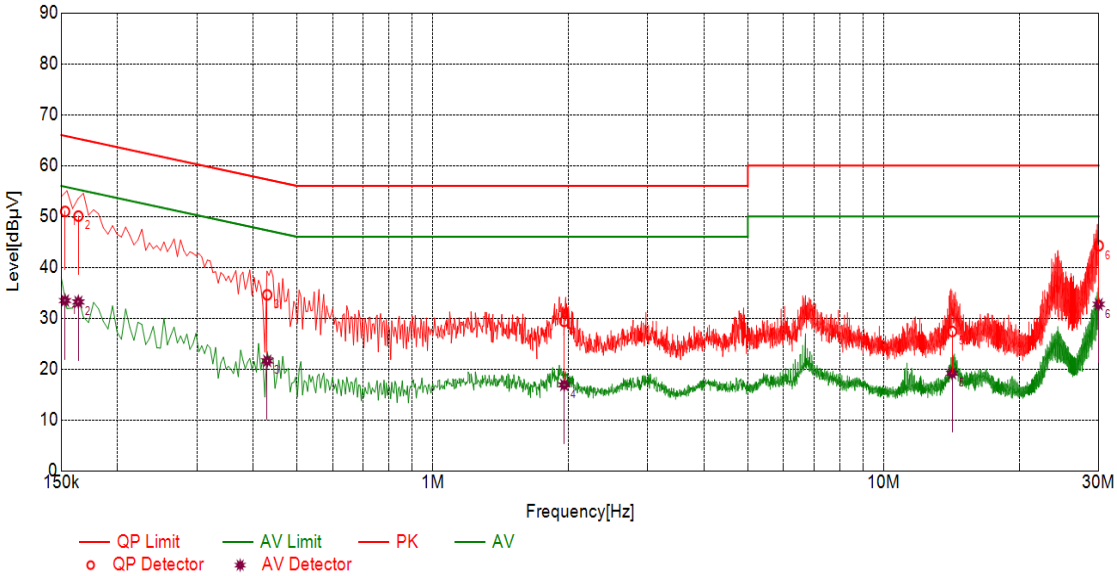
Mode:e; Line:Neutral Line




**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] | Type |
| 1 | 0.1530 | 10.10 | 50.99 | 65.83 | 14.84 | 33.46 | 55.83 | 22.37 | N |
| 2 | 0.1638 | 10.10 | 50.07 | 65.27 | 15.20 | 33.19 | 55.27 | 22.08 | N |
| 3 | 0.4296 | 10.10 | 34.59 | 57.26 | 22.67 | 21.61 | 47.26 | 25.65 | N |
| 4 | 1.9572 | 10.10 | 29.39 | 56.00 | 26.61 | 16.88 | 46.00 | 29.12 | N |
| 5 | 14.1892 | 10.11 | 27.39 | 60.00 | 32.61 | 19.18 | 50.00 | 30.82 | N |
| 6 | 29.9989 | 10.11 | 44.26 | 60.00 | 15.74 | 32.73 | 50.00 | 17.27 | N |

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## 6.2 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 |

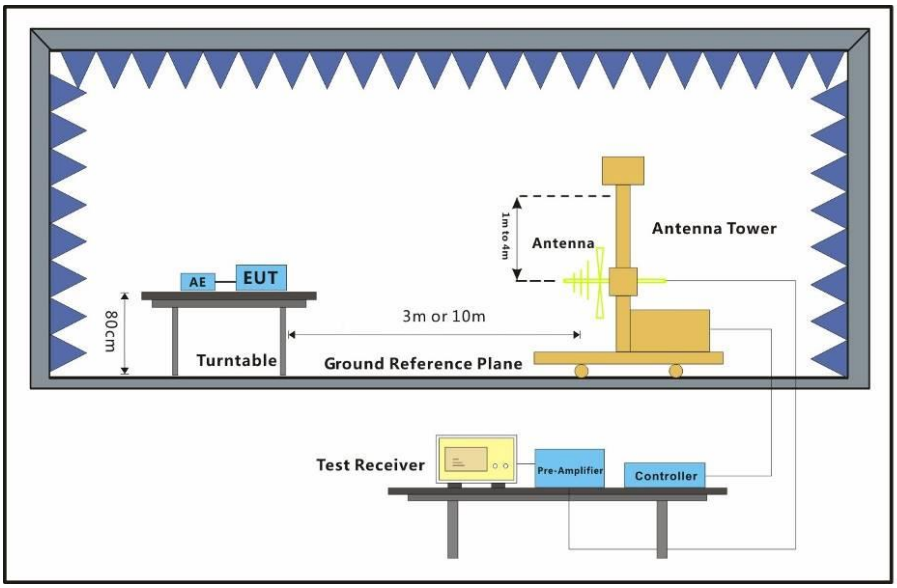
### 2.1.4 E.U.T. Operation

Operating Environment:

Temperature: 25.4 °C Humidity: 51 % RH Atmospheric Pressure: 1005 mbar

The worst case for final test: a: Transfer data between the EUT and the PC+USB cable1

### 2.1.5 Test Setup Diagram




### 2.1.6 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.

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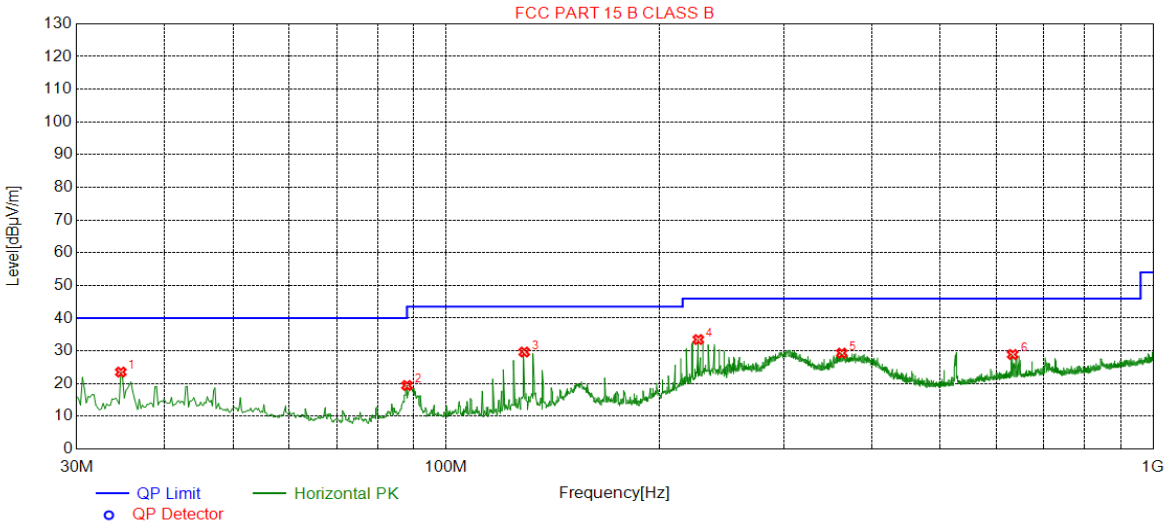
Mode:a; Polarization:Horizontal




**Suspected List**

| Suspected List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 34.6569 | 23.53 | -29.97 | 40.00 | 16.47 | 131 | 310 | Horizontal |
| 2 | 88.0176 | 19.43 | -34.20 | 43.50 | 24.07 | 205 | 255 | Horizontal |
| 3 | 128.959 | 29.65 | -34.92 | 43.50 | 13.85 | 155 | 64 | Horizontal |
| 4 | 227.337 | 33.47 | -30.49 | 46.00 | 12.53 | 216 | 51 | Horizontal |
| 5 | 362.776 | 29.32 | -26.53 | 46.00 | 16.68 | 106 | 48 | Horizontal |
| 6 | 632.878 | 28.90 | -20.24 | 46.00 | 17.10 | 202 | 54 | Horizontal |

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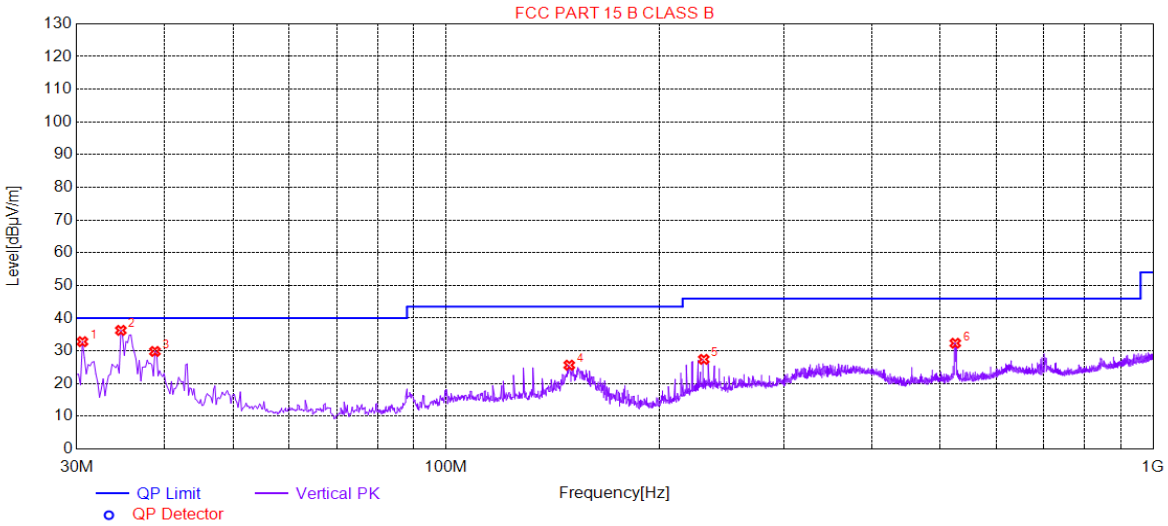
Mode:a; Polarization:Vertical




**Suspected List**

| Suspected List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 30.5821 | 32.82 | -30.07 | 40.00 | 7.18 | 227 | 76 | Vertical |
| 2 | 34.6569 | 36.28 | -29.97 | 40.00 | 3.72 | 266 | 85 | Vertical |
| 3 | 38.7317 | 29.84 | -28.75 | 40.00 | 10.16 | 270 | 300 | Vertical |
| 4 | 149.333 | 25.65 | -35.11 | 43.50 | 17.85 | 195 | 0 | Vertical |
| 5 | 231.412 | 27.42 | -30.36 | 46.00 | 18.58 | 180 | 14 | Vertical |
| 6 | 524.993 | 32.35 | -22.68 | 46.00 | 13.65 | 192 | 338 | Vertical |

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## 6.3 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 |

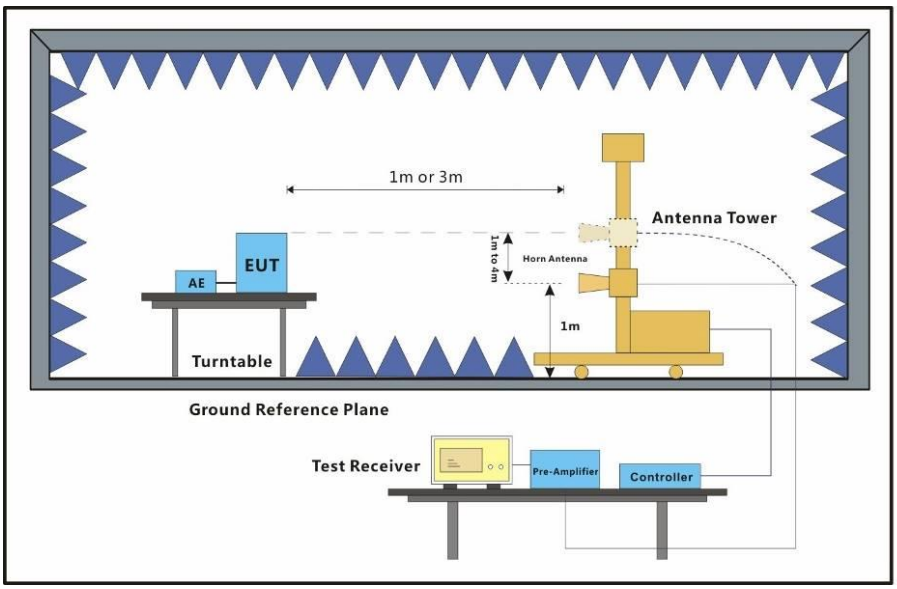
### 2.1.7 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Humidity: 56.2 % RH Atmospheric Pressure: 1005 mbar

The worst case for final test: e: WCDMA Band V Idle+BT+WLAN +USB cable(worst)+GPS RX+FM RX+earphone+Adaptor(worst)

### 2.1.8 Test Setup Diagram




### 2.1.9 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.

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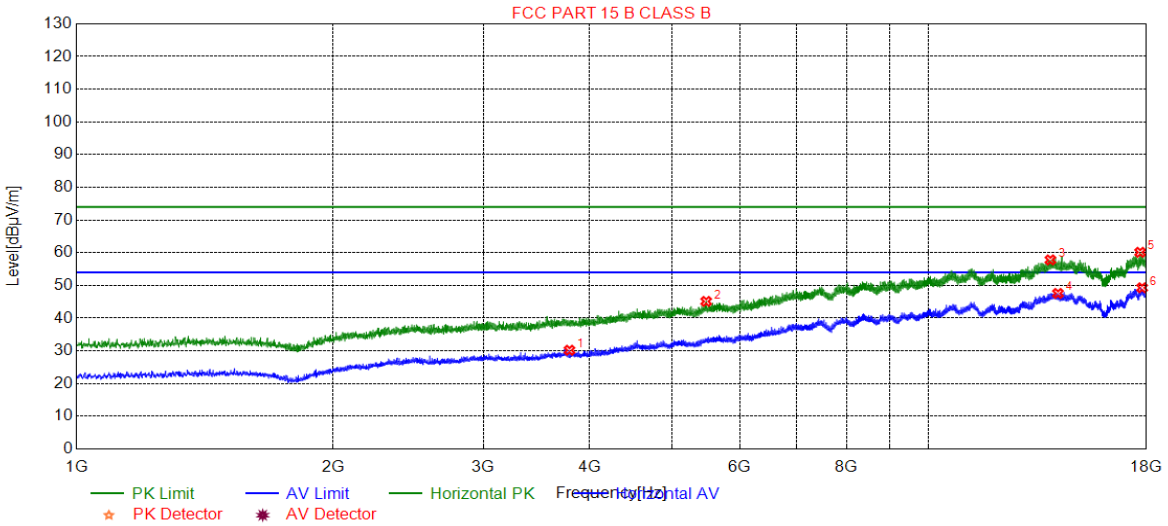
Mode:e; Polarization:Horizontal




**Suspected List**

| Suspected List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3787.28 | 30.20 | -22.19 | 54.00 | 23.80 | 151 | 156 | Horizontal |
| 2 | 5478.87 | 45.14 | -16.10 | 74.00 | 28.86 | 154 | 355 | Horizontal |
| 3 | 13883.2 | 57.82 | 2.10 | 74.00 | 16.18 | 245 | 42 | Horizontal |
| 4 | 14171.4 | 47.57 | 2.15 | 54.00 | 6.43 | 246 | 344 | Horizontal |
| 5 | 17694.8 | 60.15 | 1.03 | 74.00 | 13.85 | 156 | 231 | Horizontal |
| 6 | 17788.3 | 49.30 | 0.73 | 54.00 | 4.70 | 177 | 4 | Horizontal |

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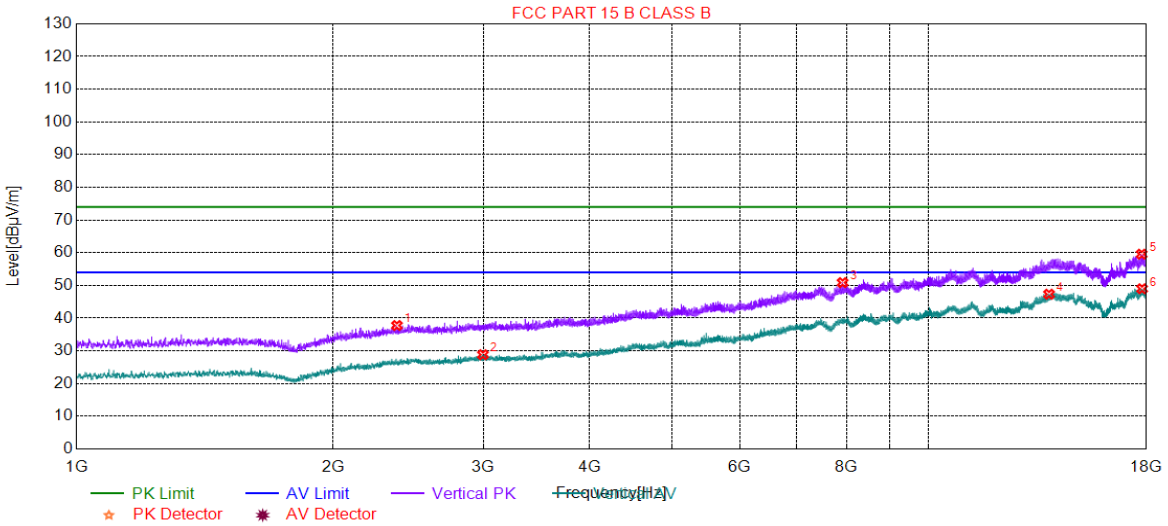
Mode:e; Polarization:Vertical




**Suspected List**

| Suspected List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 2376.21 | 37.77 | -26.57 | 74.00 | 36.23 | 184 | 242 | Vertical |
| 2 | 2997.59 | 28.84 | -24.53 | 54.00 | 25.16 | 244 | 90 | Vertical |
| 3 | 7920.19 | 50.87 | -8.64 | 74.00 | 23.13 | 237 | 90 | Vertical |
| 4 | 13833.9 | 47.34 | 1.91 | 54.00 | 6.66 | 150 | 156 | Vertical |
| 5 | 17768.7 | 59.58 | 0.80 | 74.00 | 14.42 | 283 | 156 | Vertical |
| 6 | 17786.6 | 49.00 | 0.74 | 54.00 | 5.00 | 191 | 204 | Vertical |

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# 7 Photographs

## 7.1 Test Setup Photos

Refer to Photographs of Appendix A - Photographs of Set-Up for ZR/2020/70004

## 7.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -

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