

Report No.: SEWM2212000309RG06  
 Rev.: 02  
 Page: 1 of 29

# TEST REPORT

**Application No.:** SEWM2212000309RG  
**Applicant:** Sony Corporation  
**Address of Applicant:** 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan  
**Manufacturer:** Sony Corporation  
**Address of Manufacturer:** 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan  
**EUT Description:** GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, NFC and GNSS  
**Trade Mark:** Sony  
**FCC ID:** PY7-97087H  
**Standard(s):** FCC 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2022/11/30  
**Date of Test:** 2023/01/06 to 2023/01/10  
**Date of Issue:** 2023/03/09

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

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

Authorized Signature:

Panta Sun  
 Wireless Laboratory Manager



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| Revision Record |         |            |          |   |
|-----------------|---------|------------|----------|---|
| Version         | Chapter | Date       | Modifier | Remark  |
| 01              |         | 2023/01/13 |          | Original  |
| 02              |         | 2023/03/09 |          | Add remark in the chapter "E.U.T. Operation" on page 14 |

This report supersedes our previous report SEWM2212000309RG06, issued on 2023/01/13, which is hereby deemed null and void.

|                    |  |                                       |
|--------------------|--|---------------------------------------|
| <b>Prepared By</b> |  | <br><hr/> (King-p Li) / Test Engineer |
| <b>Checked By</b>  |  | <br><hr/> (Well Wei) / Reviewer       |



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### Test Summary

| Emission Part   |                               |                 |             |        |
|---|-------------------------------|-----------------|-------------|--------|
| Item  | Standard                      | Method          | Requirement | Result |
| Conducted Emissions at Mains Terminals (150kHz-30MHz) | FCC 47 CFR Part 15, Subpart B | ANSI C63.4:2014 | Class B     | Pass   |
| Radiated Emissions (30MHz-1GHz)                       | FCC 47 CFR Part 15, Subpart B | ANSI C63.4:2014 | Class B     | Pass   |
| Radiated Emissions (above 1GHz)                       | FCC 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         | 5 <sup>th</sup> harmonic of the highest frequency or 40GHz, whichever is lower |



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# 1 General Information

|  |  |           |           |
|--|--|-----------|-----------|
| EUT Description:   | GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, NFC and GNSS |           |           |
| Trade Mark:  | Sony   |           |           |
| Hardware Version:  | A  |           |           |
| Software Version:  | 0.129  |           |           |
| SN:  | HQ62B2066A   |           |           |
| Frequency Bands:   | Band   | Tx (MHz)  | Rx (MHz)  |
|  | GSM850   | 824~849   | 869~894   |
|  | GSM1900  | 1850~1910 | 1930~1990 |
|  | WCDMA Band V   | 824~849   | 869~894   |
|  | LTE Band 5   | 824~849   | 869~894   |
|  | LTE Band 12  | 699~716   | 729~746   |
|  | Wi-Fi 2.4G   | 2412~2462 | 2412~2462 |
|  | Bluetooth  | 2402~2480 | 2402~2480 |
|  | Wi-Fi 5G   | 5150~5850 | 5150~5850 |
|  | NFC  | 13.56     | 13.56     |
| GNSS (GPS L1C/A+Glonass G1+ Beidou B1I+Galileo E1)   | /  | 1559~1610 |           |
| <p>Remark:<br/>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p> |  |           |           |



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**Accessory:**

| Adapter No. | Model No. | Manufacturer     |
|-------------|-----------|------------------|
| 1           | XQZ-UC1   | Sony Corporation |

| USB cable no. | Model no. | Manufacturer     |
|---------------|-----------|------------------|
| 1             | XQZ-UB1   | Sony Corporation |
| 2             | UCB20     | Sony Corporation |

| Earphone No. | Model No.  | Manufacturer     |
|--------------|------------|------------------|
| 1            | MDR-EX15AP | Sony Corporation |



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**1.1 Description of Support Units**

| Description | Manufacturer                | Model No.        | Inventory No. |
|-------------|-----------------------------|------------------|---------------|
| Router      | Smavwave 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 |

**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: | King-p Li  |

**1.3 Test Facility**

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

|   |
|---|
| <p><b>• A2LA (Certificate No. 6336.01)</b><br/>                 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. Is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.</p> <p><b>• Innovation, Science and Economic Development Canada</b><br/>                 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. Has been recognized by ISED as an accredited testing laboratory.<br/>                 CAB identifier: CN0120.<br/>                 IC#: 27594.</p> <p><b>• FCC –Designation Number: CN1312</b><br/>                 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. Has been recognized as an accredited testing laboratory.<br/>                 Designation Number: CN1312.<br/>                 Test Firm Registration Number: 717327</p> |
|---|

**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           |             |          |
| Receiver Setup:  | RBW = 9kHz, VBW = 30kHz   |             |          |
| Limit:   | Frequency Range (MHz)     | Limit(dBμV) |          |
|  |                           | Quasi-peak  | average  |
|  | 0.15M-0.5MHz              | 66 ~ 56*    | 56 ~ 46* |
|  | 0.5M-5MHz                 | 56          | 46       |
|  | 5M-30MHz                  | 60          | 50       |
| *Decreases with the logarithm of the frequency<br>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: adapter+usb Cable+BT+2.4GWLAN +Camera(Rear)+GSM850<br>b: adapter+usb Cable+BT+5GWLAN +Camera(Front)+WCDMA Band 5<br>c: adapter+usb Cable+BT+2.4GWLAN +MP4+LTE Band 5<br>d: adapter+usb Cable+BT+5GWLAN +GPS RX+LTE Band 12<br>e: adapter+usb Cable+BT+2.4GWLAN +NFC ON+GSM1900<br>f: Transfer data between the EUT and the PC+USB cable |
| The worst case for final test:              | e: adapter+usb Cable+BT+2.4GWLAN +NFC ON+GSM1900<br>f: Transfer data between the EUT and the PC+USB cable  |
| Remark:                                     | Select the GSM/WCDMA/LTE with the worst power for the pre-test (TX&RX), and only the worst data will be reflected in the report.   |



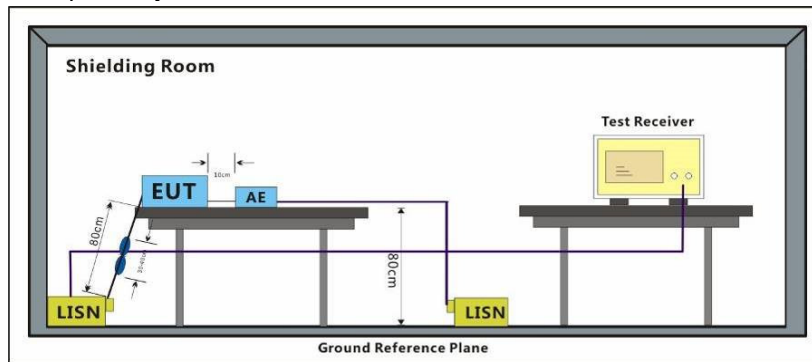
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**2.1.2 Test Setup Procedures**

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**

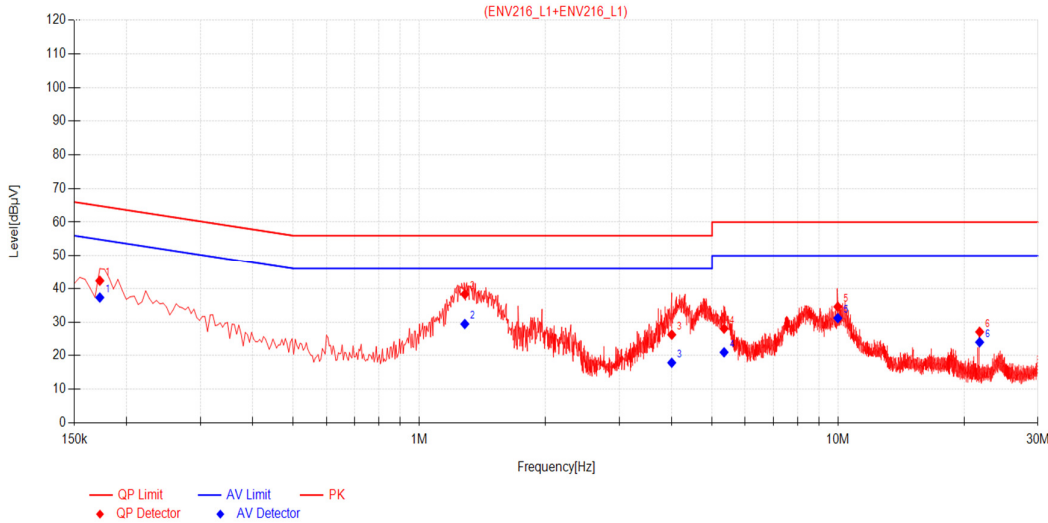
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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|                  |        |        |      |
|------------------|--------|--------|------|
| Final Test Mode: | Mode e | Phase: | Line |
|------------------|--------|--------|------|



Final Data List

| NO | Frequency [MHz] | Factor [Db] | QP Reading [dBµV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [Db] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [Db] | Verdict |
|----|-----------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1  | 0.1725          | 10.73       | 31.58             | 42.31           | 64.84           | 22.53          | 26.58             | 37.31           | 54.84           | 17.53          | PASS    |
| 2  | 1.2840          | 10.78       | 27.53             | 38.31           | 56.00           | 17.69          | 18.64             | 29.42           | 46.00           | 16.58          | PASS    |
| 3  | 4.0065          | 10.74       | 15.50             | 26.24           | 56.00           | 29.76          | 7.13              | 17.87           | 46.00           | 28.13          | PASS    |
| 4  | 5.3430          | 10.66       | 17.38             | 28.04           | 60.00           | 31.96          | 10.32             | 20.98           | 50.00           | 29.02          | PASS    |
| 5  | 9.9870          | 10.63       | 23.93             | 34.56           | 60.00           | 25.44          | 20.52             | 31.15           | 50.00           | 18.85          | PASS    |
| 6  | 21.7860         | 10.36       | 16.70             | 27.06           | 60.00           | 32.94          | 13.64             | 24.00           | 50.00           | 26.00          | PASS    |

Remark:

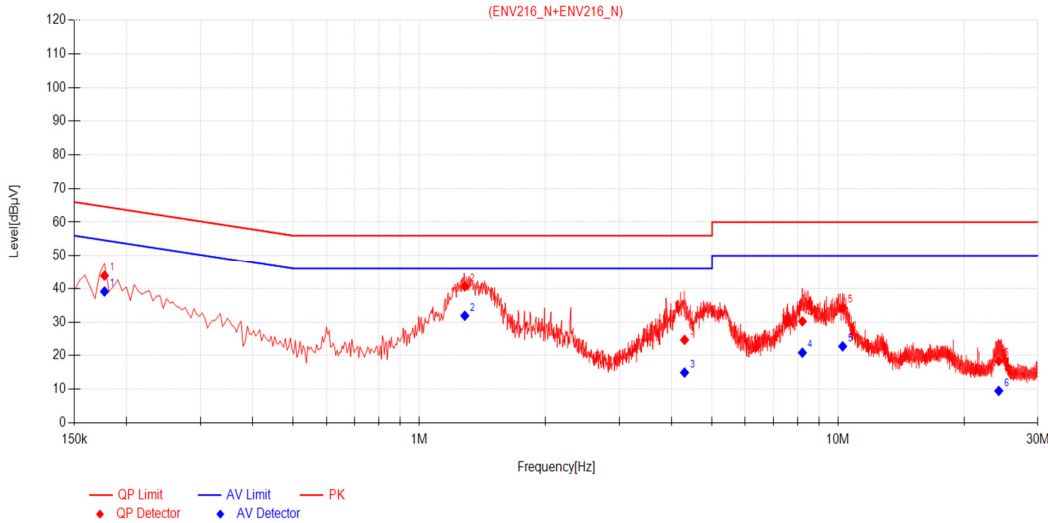
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[Db] + cable loss[Db]).
3. Margin = Limit[dBµV] – Value[dBµV]



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|                  |        |        |         |
|------------------|--------|--------|---------|
| Final Test Mode: | Mode e | Phase: | Neutral |
|------------------|--------|--------|---------|



Final Data List

| NO | Frequency [MHz] | Factor [Db] | QP Reading [dBµV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [Db] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [Db] | Verdict |
|----|-----------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1  | 0.1770          | 10.71       | 33.15             | 43.86           | 64.63           | 20.77          | 28.39             | 39.10           | 54.63           | 15.53          | PASS    |
| 2  | 1.2840          | 10.78       | 29.85             | 40.63           | 56.00           | 15.37          | 21.10             | 31.88           | 46.00           | 14.12          | PASS    |
| 3  | 4.2990          | 10.71       | 13.97             | 24.68           | 56.00           | 31.32          | 4.24              | 14.95           | 46.00           | 31.05          | PASS    |
| 4  | 8.2185          | 10.58       | 19.62             | 30.20           | 60.00           | 29.80          | 10.28             | 20.86           | 50.00           | 29.14          | PASS    |
| 5  | 10.2570         | 10.67       | 23.50             | 34.17           | 60.00           | 25.83          | 12.09             | 22.76           | 50.00           | 27.24          | PASS    |
| 6  | 24.1980         | 10.51       | 7.89              | 18.40           | 60.00           | 41.60          | -1.04             | 9.47            | 50.00           | 40.53          | PASS    |

Remark:

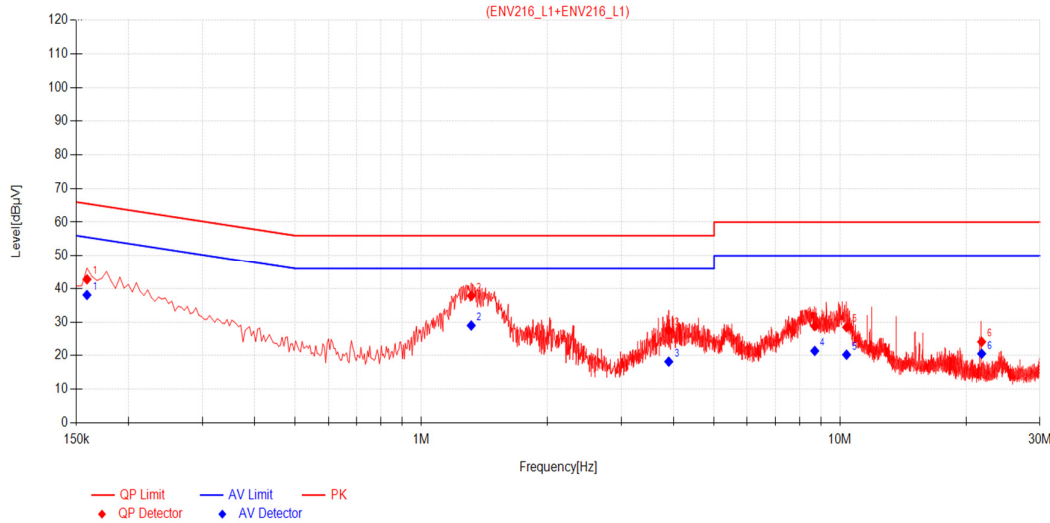
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lisn factor[Db] + cable loss[Db]).
- Margin = Limit[dBµV] – Value[dBµV]



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|                  |        |        |      |
|------------------|--------|--------|------|
| Final Test Mode: | Mode f | Phase: | Line |
|------------------|--------|--------|------|



| Final Data List |                 |             |                   |                 |                 |                |                   |                 |                 |                |         |
|-----------------|-----------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| NO              | Frequency [MHz] | Factor [Db] | QP Reading [dBµV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [Db] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [Db] | Verdict |
| 1               | 0.1590          | 10.67       | 32.07             | 42.74           | 65.52           | 22.78          | 27.40             | 38.07           | 55.52           | 17.45          | PASS    |
| 2               | 1.3155          | 10.78       | 27.04             | 37.82           | 56.00           | 18.18          | 18.19             | 28.97           | 46.00           | 17.03          | PASS    |
| 3               | 3.8985          | 10.73       | 16.78             | 27.51           | 56.00           | 28.49          | 7.47              | 18.20           | 46.00           | 27.80          | PASS    |
| 4               | 8.7000          | 10.66       | 18.12             | 28.78           | 60.00           | 31.22          | 10.75             | 21.41           | 50.00           | 28.59          | PASS    |
| 5               | 10.3650         | 10.63       | 17.83             | 28.46           | 60.00           | 31.54          | 9.64              | 20.27           | 50.00           | 29.73          | PASS    |
| 6               | 21.7860         | 10.36       | 13.75             | 24.11           | 60.00           | 35.89          | 10.20             | 20.56           | 50.00           | 29.44          | PASS    |

Remark:

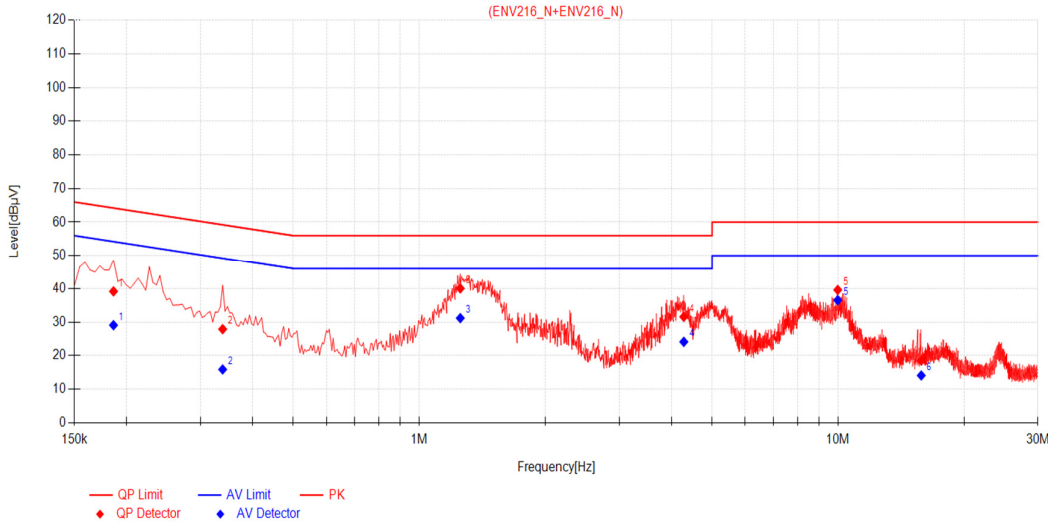
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[Db] + cable loss[Db]).
3. Margin = Limit[dBµV] – Value[dBµV]



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|                  |        |        |         |
|------------------|--------|--------|---------|
| Final Test Mode: | Mode f | Phase: | Neutral |
|------------------|--------|--------|---------|



Final Data List

| NO | Frequency [MHz] | Factor [Db] | QP Reading [dBµV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [Db] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [Db] | Verdict |
|----|-----------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1  | 0.1860          | 10.68       | 28.47             | 39.15           | 64.21           | 25.06          | 18.39             | 29.07           | 54.21           | 25.14          | PASS    |
| 2  | 0.3390          | 10.80       | 17.09             | 27.89           | 59.23           | 31.34          | 5.08              | 15.88           | 49.23           | 33.35          | PASS    |
| 3  | 1.2525          | 10.78       | 29.25             | 40.03           | 56.00           | 15.97          | 20.40             | 31.18           | 46.00           | 14.82          | PASS    |
| 4  | 4.2810          | 10.71       | 20.86             | 31.57           | 56.00           | 24.43          | 13.40             | 24.11           | 46.00           | 21.89          | PASS    |
| 5  | 9.9825          | 10.67       | 28.92             | 39.59           | 60.00           | 20.41          | 25.85             | 36.52           | 50.00           | 13.48          | PASS    |
| 6  | 15.8010         | 10.57       | 7.96              | 18.53           | 60.00           | 41.47          | 3.52              | 14.09           | 50.00           | 35.91          | PASS    |

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[Db] + cable loss[Db]).
3. Margin = Limit[dBµV] – Value[dBµV]



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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:                | Frequency Range (MHz)   | Limit(dBµV/m) | Detector   |
|                       | 30MHz -88MHz  | 40.0          | Quasi-peak |
|                       | 88MHz-216MHz  | 43.5          | Quasi-peak |
|                       | 216MHz-960MHz   | 46.0          | Quasi-peak |
| 960MHz-1000MHz        | 54.0  | Quasi-peak    |            |
| Detector:             | Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz |               |            |

**2.2.1 E.U.T. Operation**

|   |  |
|---|--|
| Temperature:                                | 22~23°C  |
| Humidity:                                   | 44~46%RH   |
| Atmospheric Pressure:                       | 101.0 kPa  |
| Pretest these modes to find the worst case: | a: adapter+usb Cable+BT+2.4GWLAN +Camera(Rear)+GSM850<br>b: adapter+usb Cable+BT+5GWLAN +Camera(Front)+WCDMA Band 5<br>c: adapter+usb Cable+BT+2.4GWLAN +MP4+LTE Band 5<br>d: adapter+usb Cable+BT+5GWLAN +GPS RX+LTE Band 12<br>e: adapter+usb Cable+BT+2.4GWLAN +NFC ON+GSM1900<br>f: Transfer data between the EUT and the PC+USB cable |
| The worst case for final test:              | c: adapter+usb Cable+BT+2.4GWLAN +MP4+LTE Band 5<br>f: Transfer data between the EUT and the PC+USB cable  |
| Remark:                                     | 1. Select the GSM/WCDMA/LTE with the worst power for the pre-test (TX&RX), and only the worst data will be reflected in the report.<br>2. The dominant frequency has been processed by the filter.   |

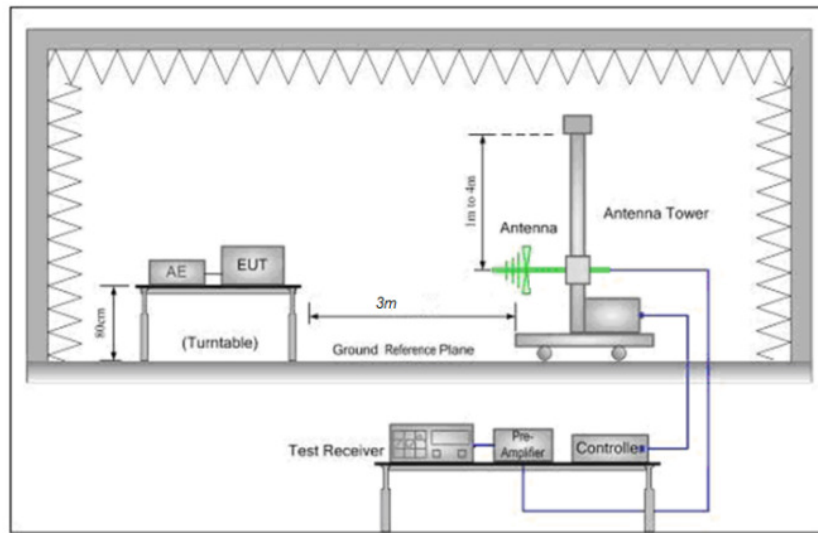


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**2.2.2 Test Setup Procedures**

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**

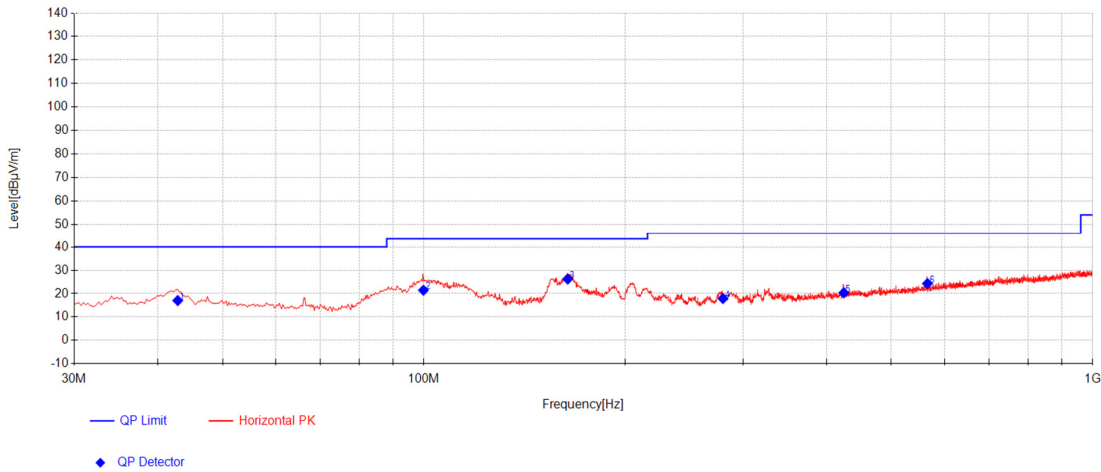
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.



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|                  |        |               |            |
|------------------|--------|---------------|------------|
| Final Test Mode: | Mode c | Polarization: | Horizontal |
|------------------|--------|---------------|------------|



| Final Data List |                 |                |           |             |                   |                   |                |             |           |            |
|-----------------|-----------------|----------------|-----------|-------------|-------------------|-------------------|----------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | QP Value [dBµV/m] | QP Limit [dBµV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 42.8525         | 31.26          | 13.83     | -28.06      | 17.03             | 40.00             | 22.97          | 126         | 308       | Horizontal |
| 2               | 99.84           | 38.69          | 10.14     | -27.36      | 21.46             | 43.50             | 22.04          | 265         | 88        | Horizontal |
| 3               | 164.1025        | 38.63          | 14.25     | -26.64      | 26.24             | 43.50             | 17.26          | 241         | 289       | Horizontal |
| 4               | 280.0175        | 32.29          | 12.31     | -26.71      | 17.89             | 46.00             | 28.11          | 142         | 360       | Horizontal |
| 5               | 424.5475        | 30.29          | 15.34     | -25.29      | 20.35             | 46.00             | 25.65          | 263         | 194       | Horizontal |
| 6               | 566.1675        | 31.26          | 17.69     | -24.66      | 24.29             | 46.00             | 21.71          | 221         | 259       | Horizontal |

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Margin = Limit[dBµV/m] -Value[dBµV/m]

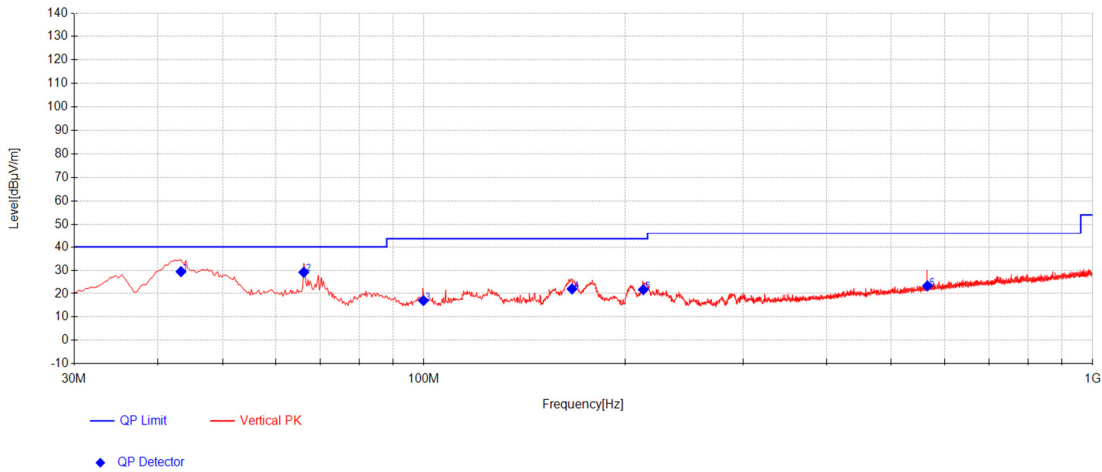


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|                  |        |               |          |
|------------------|--------|---------------|----------|
| Final Test Mode: | Mode c | Polarization: | Vertical |
|------------------|--------|---------------|----------|



| Final Data List |                 |                |           |             |                   |                   |                |             |           |          |
|-----------------|-----------------|----------------|-----------|-------------|-------------------|-------------------|----------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | QP Value [dBµV/m] | QP Limit [dBµV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 43.3375         | 43.68          | 13.79     | -28.06      | 29.41             | 40.00             | 10.59          | 102         | 255       | Vertical |
| 2               | 66.1325         | 45.26          | 11.57     | -27.70      | 29.13             | 40.00             | 10.87          | 296         | 33        | Vertical |
| 3               | 99.84           | 34.26          | 10.14     | -27.36      | 17.03             | 43.50             | 26.47          | 265         | 359       | Vertical |
| 4               | 166.5275        | 34.26          | 14.32     | -26.57      | 22.01             | 43.50             | 21.49          | 142         | 314       | Vertical |
| 5               | 212.845         | 37.96          | 10.33     | -26.60      | 21.69             | 43.50             | 21.81          | 263         | 358       | Vertical |
| 6               | 566.1675        | 30.26          | 17.69     | -24.66      | 23.29             | 46.00             | 22.71          | 211         | 304       | Vertical |

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

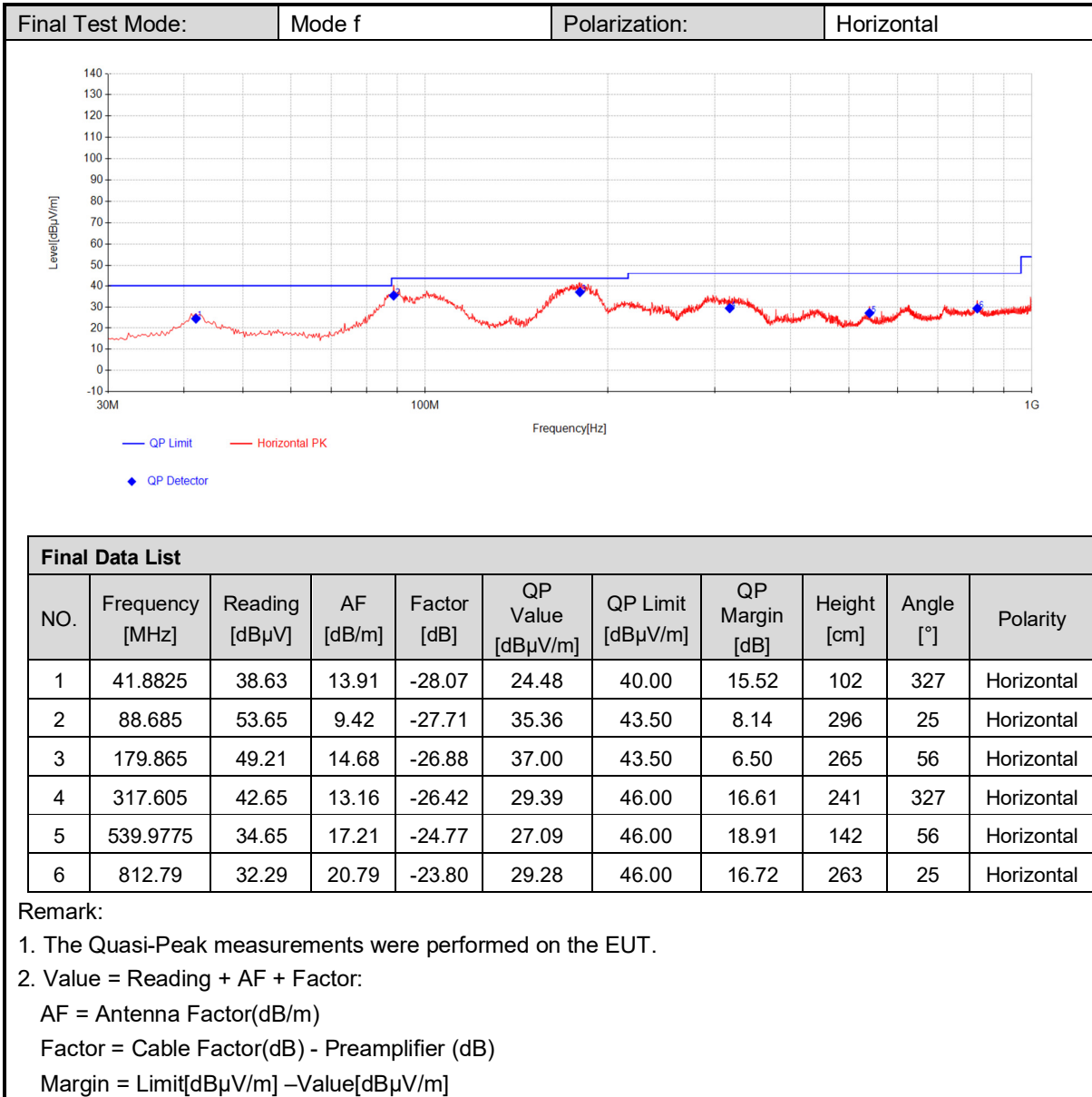
Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBµV/m] - Value[dBµV/m]



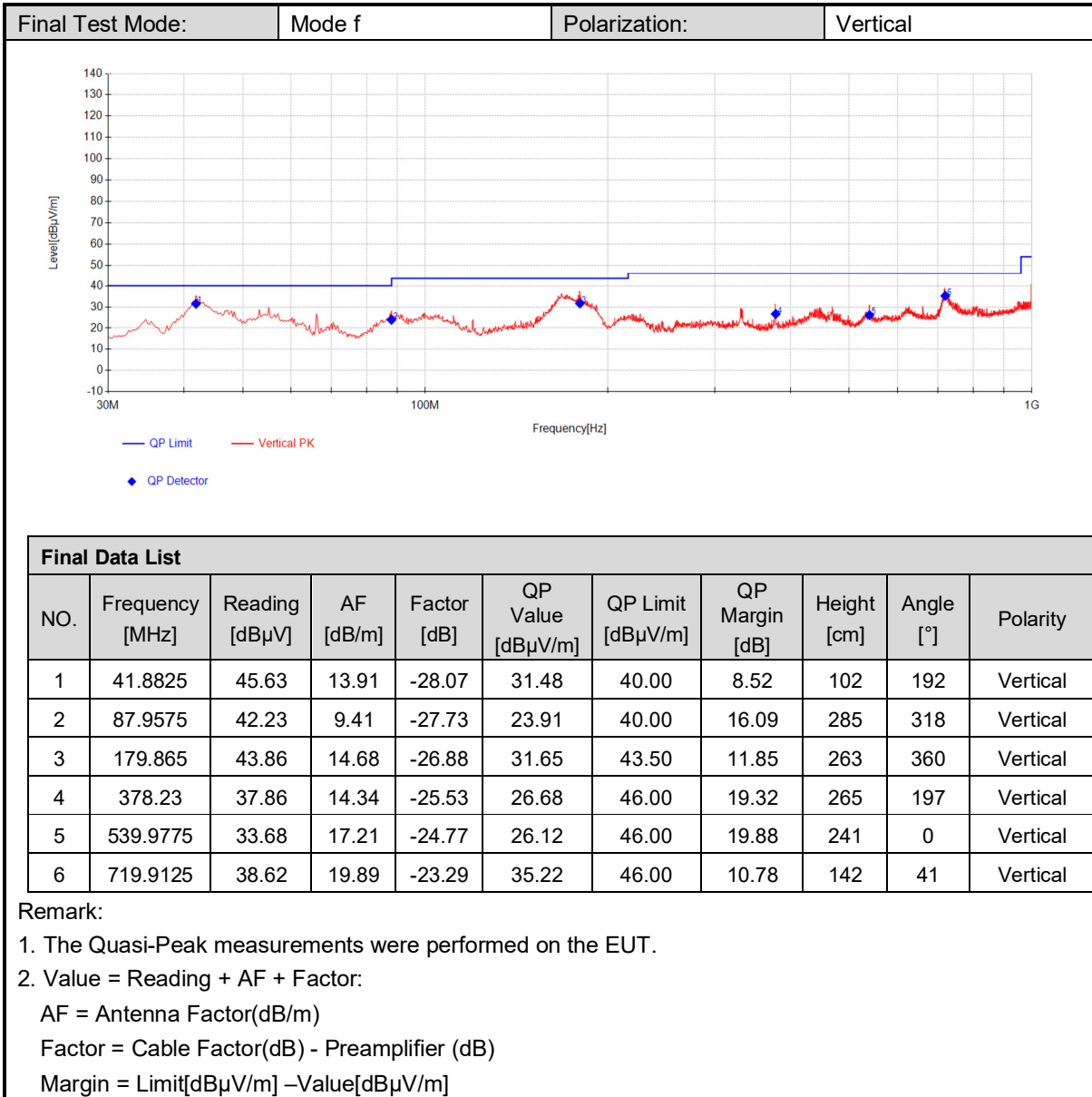
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**2.3 Radiated Emissions (above 1GHz)**

|                       |  |                |                 |
|-----------------------|--|----------------|-----------------|
| Test Requirement:     | 47 CFR Part 15, Subpart B  |                |                 |
| Test Method:          | ANSI C63.4:2014  |                |                 |
| Frequency Range:      | Above 1GHz   |                |                 |
| Measurement Distance: | 3m   |                |                 |
| Limit:                | Frequency (MHz)  | Limit (dBµV/m) | Detector        |
|                       | Above 1GHz   | 74<br>54       | Peak<br>Average |
| Detector:             | Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower. |                |                 |

**2.3.1 E.U.T. Operation**

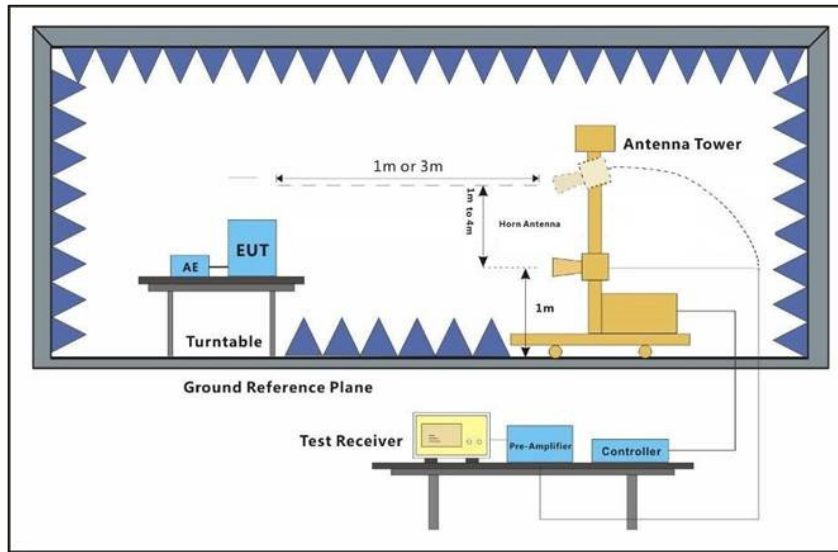
|   |  |
|---|--|
| Temperature:                                | 22~23°C  |
| Humidity:                                   | 44~46%RH   |
| Atmospheric Pressure:                       | 101.0 kPa  |
| Pretest these modes to find the worst case: | a: adapter+usb Cable+BT+2.4GWLAN +Camera(Rear)+GSM850<br>b: adapter+usb Cable+BT+5GWLAN +Camera(Front)+WCDMA Band 5<br>c: adapter+usb Cable+BT+2.4GWLAN +MP4+LTE Band 5<br>d: adapter+usb Cable+BT+5GWLAN +GPS RX+LTE Band 12<br>e: adapter+usb Cable+BT+2.4GWLAN +NFC ON+GSM1900<br>f: Transfer data between the EUT and the PC+USB cable |
| The worst case for final test:              | e: adapter+usb Cable+BT+2.4GWLAN +NFC ON+GSM1900<br>f: Transfer data between the EUT and the PC+USB cable  |
| Remark:                                     | 1. Select the GSM/WCDMA/LTE with the worst power for the pre-test (TX&RX), and only the worst data will be reflected in the report.<br>2. The dominant frequency has been processed by the filter.   |



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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  
(Distance from antenna to EUT is 1m for measurements >18GHz).
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.
7. At a measurement distance of 1 meter the limit line was increased by  $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$ .



**2.3.3 Measurement Data**

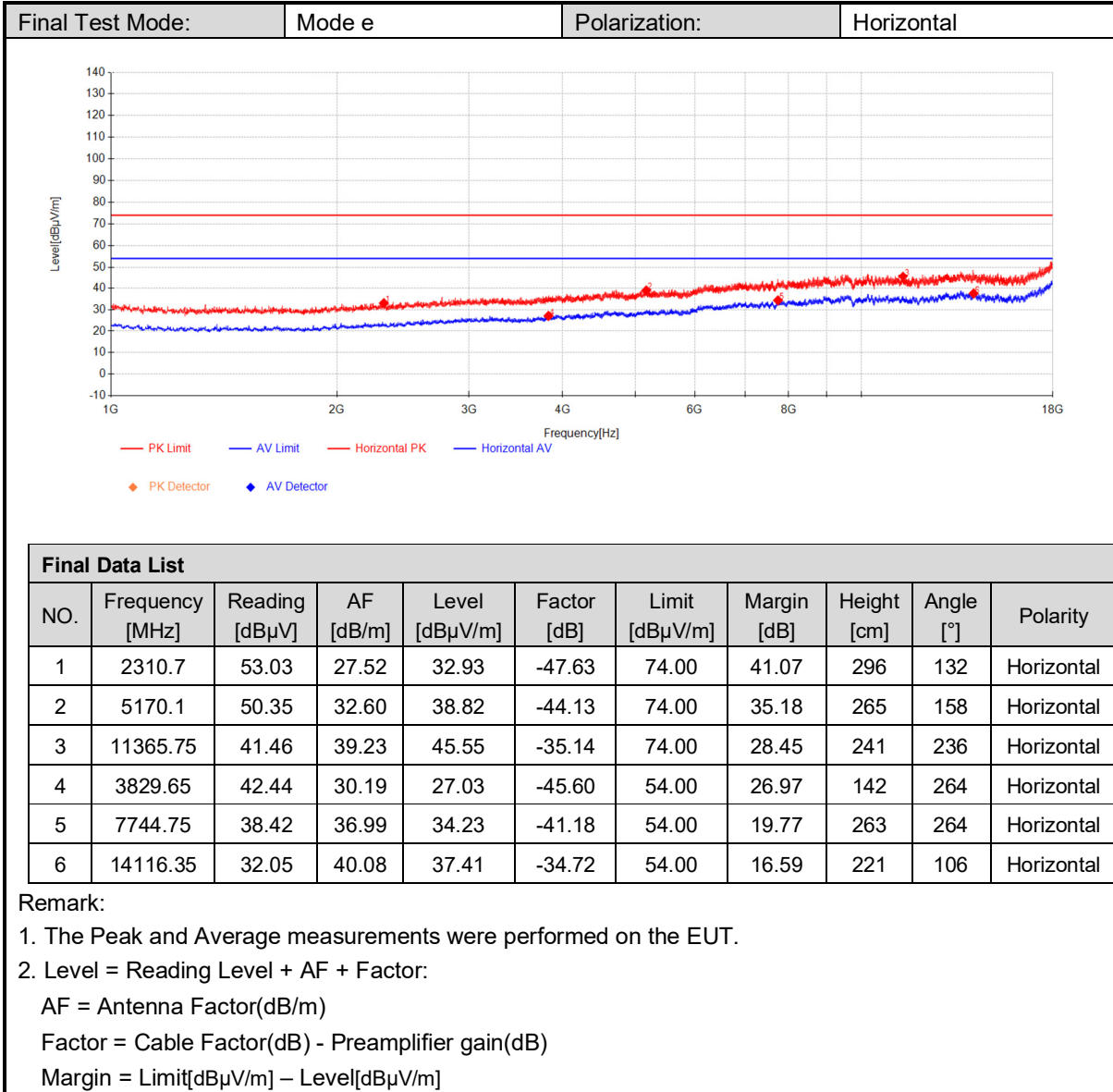
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X, Y, Z were measured by EUT, but only the worst data had been displayed. Scan from 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only below points had been displayed.



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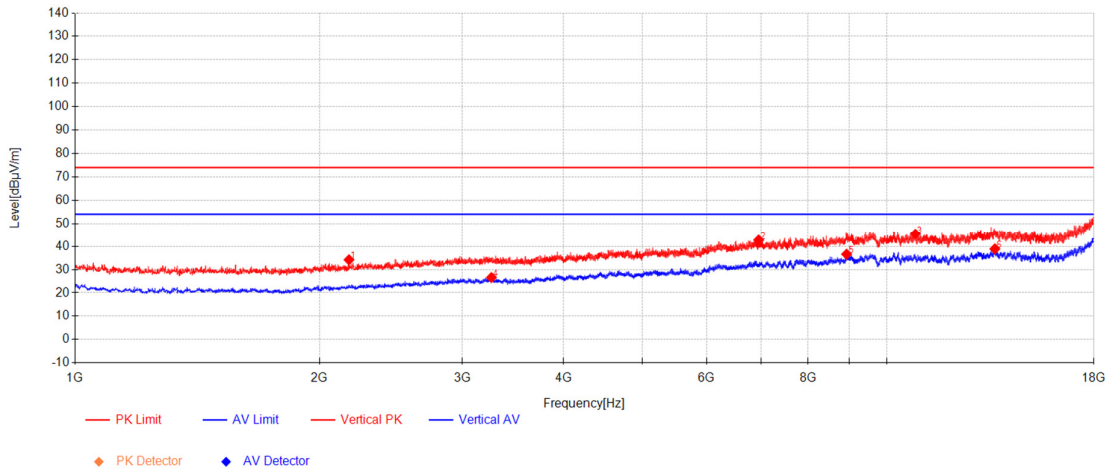


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|                  |        |               |          |
|------------------|--------|---------------|----------|
| Final Test Mode: | Mode e | Polarization: | Vertical |
|------------------|--------|---------------|----------|



| Final Data List |                 |                |           |                |             |                |             |             |           |          |
|-----------------|-----------------|----------------|-----------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 2175.55         | 54.69          | 27.25     | 34.17          | -47.77      | 74.00          | 39.83       | 196         | 306       | Vertical |
| 2               | 6954.25         | 49.19          | 36.11     | 42.67          | -42.63      | 74.00          | 31.33       | 265         | 253       | Vertical |
| 3               | 10847.25        | 41.70          | 39.43     | 45.42          | -35.71      | 74.00          | 28.58       | 241         | 332       | Vertical |
| 4               | 3258.45         | 43.22          | 29.50     | 26.54          | -46.18      | 54.00          | 27.46       | 142         | 176       | Vertical |
| 5               | 8925.4          | 37.31          | 38.52     | 36.56          | -39.27      | 54.00          | 17.44       | 263         | 0         | Vertical |
| 6               | 13590.2         | 33.22          | 39.95     | 38.84          | -34.34      | 54.00          | 15.16       | 228         | 357       | Vertical |

Remark:

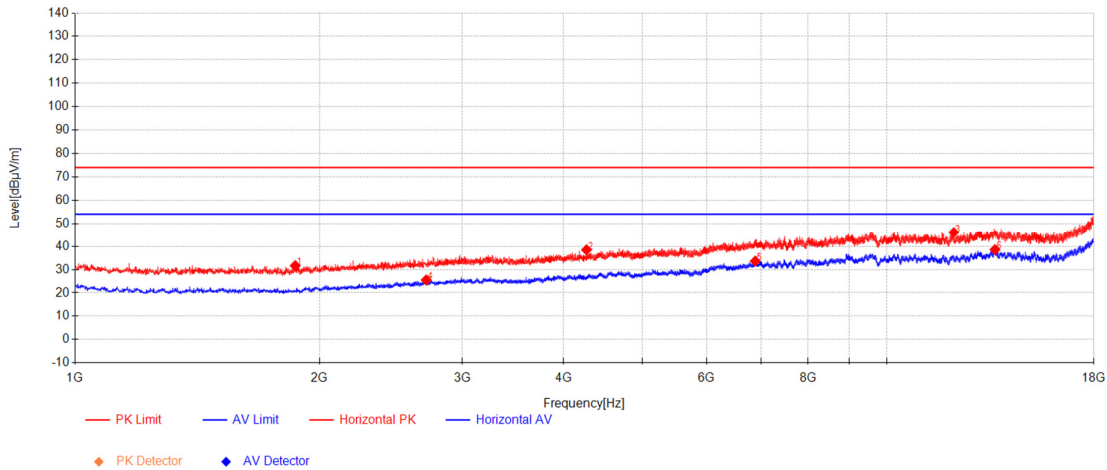
- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Pre-amplifier gain(dB)  
 Margin = Limit[dBµV/m] – Level[dBµV/m]



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|                  |        |               |            |
|------------------|--------|---------------|------------|
| Final Test Mode: | Mode f | Polarization: | Horizontal |
|------------------|--------|---------------|------------|



| Final Data List |                 |                |           |                |             |                |             |             |           |            |
|-----------------|-----------------|----------------|-----------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1867.85         | 53.84          | 25.97     | 31.63          | -48.19      | 74.00          | 42.37       | 296         | 254       | Horizontal |
| 2               | 4267.4          | 52.52          | 31.03     | 38.43          | -45.12      | 74.00          | 35.57       | 265         | 175       | Horizontal |
| 3               | 12098.45        | 42.91          | 38.70     | 46.14          | -35.47      | 74.00          | 27.86       | 241         | 351       | Horizontal |
| 4               | 2708.5          | 43.92          | 28.61     | 25.50          | -47.03      | 54.00          | 28.50       | 142         | 351       | Horizontal |
| 5               | 6887.1          | 40.14          | 35.97     | 33.59          | -42.53      | 54.00          | 20.41       | 263         | 25        | Horizontal |
| 6               | 13597.85        | 32.94          | 39.96     | 38.53          | -34.37      | 54.00          | 15.47       | 228         | 306       | Horizontal |

Remark:

- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Pre-amplifier gain(dB)  
 Margin = Limit[dBµV/m] – Level[dBµV/m]

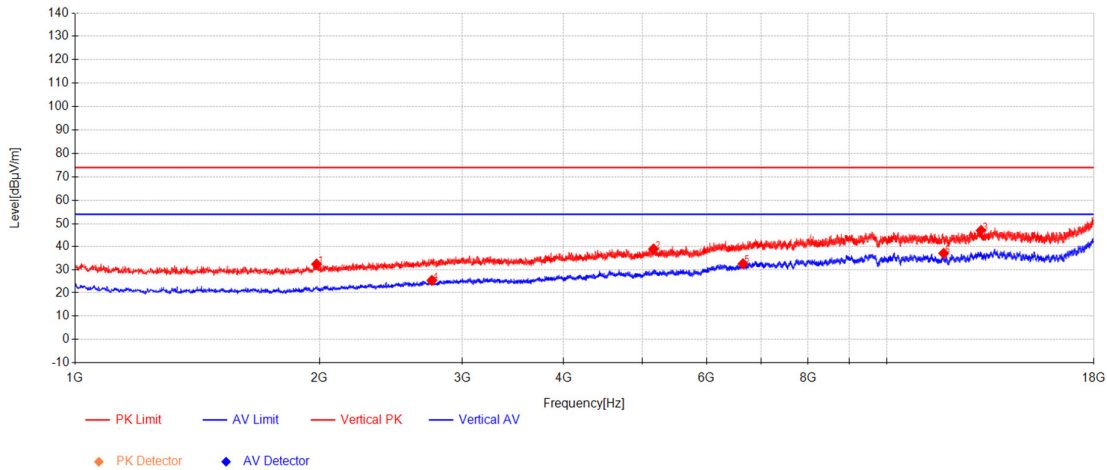


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|                  |        |               |          |
|------------------|--------|---------------|----------|
| Final Test Mode: | Mode f | Polarization: | Vertical |
|------------------|--------|---------------|----------|



| Final Data List |                 |                |           |                |             |                |             |             |           |          |
|-----------------|-----------------|----------------|-----------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1984.3          | 53.57          | 26.79     | 32.28          | -48.08      | 74.00          | 41.72       | 202         | 1         | Vertical |
| 2               | 5160.75         | 50.36          | 32.60     | 38.77          | -44.19      | 74.00          | 35.23       | 296         | 357       | Vertical |
| 3               | 13068.3         | 42.49          | 39.64     | 47.13          | -35.00      | 74.00          | 26.87       | 265         | 44        | Vertical |
| 4               | 2751.85         | 43.41          | 28.76     | 25.30          | -46.86      | 54.00          | 28.70       | 241         | 44        | Vertical |
| 5               | 6652.5          | 39.86          | 35.51     | 32.46          | -42.90      | 54.00          | 21.54       | 142         | 282       | Vertical |
| 6               | 11753.35        | 32.95          | 38.85     | 36.91          | -34.89      | 54.00          | 17.09       | 236         | 70        | Vertical |

Remark:

- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Pre-amplifier gain(dB)  
 Margin = Limit[dBµV/m] – Level[dBµV/m]



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### 3 Equipment List

| CE Test System                      |               |                     |               |                          |                              |
|-------------------------------------|---------------|---------------------|---------------|--------------------------|------------------------------|
| Equipment                           | Manufacturer  | Model No.           | Inventory No. | Cal Date<br>(yyyy/mm/dd) | Cal Due Date<br>(yyyy/mm/dd) |
| Wideband Radio Communication Tester | Anritsu       | MT8820C             | SUWI-01-16-08 | 2022/02/14               | 2023/02/13                   |
| Temperature and humidity meter      | MingGao       | TH101B              | SUWI-01-01-06 | 2022/02/16               | 2023/02/15                   |
| Test receiver                       | ROHDE&SCHWARZ | ESR7                | SUWI-01-10-01 | 2022/02/19               | 2023/02/18                   |
| Artificial network                  | ROHDE&SCHWARZ | ENV216              | SUWI-01-19-01 | 2022/02/19               | 2023/02/18                   |
| Artificial network                  | ROHDE&SCHWARZ | ENV216              | SUWI-01-19-02 | 2022/02/19               | 2023/02/18                   |
| Measurement Software CE             | Tonsend       | JS32-CE<br>V4.0.0.2 | SUWI-02-09-05 | NCR                      | NCR                          |



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| RE Test System                      |                                   |                    |               |                          |                              |
|-------------------------------------|-----------------------------------|--------------------|---------------|--------------------------|------------------------------|
| Equipment                           | Manufacturer                      | Model No.          | Inventory No. | Cal Date<br>(yyyy/mm/dd) | Cal Due Date<br>(yyyy/mm/dd) |
| Semi-Anechoic Chamber               | Brilliant-emc                     | N/A                | SUWI-04-02-01 | 2021/05/08               | 2024/05/07                   |
| Temperature and humidity meter      | MingGao                           | TH101B             | SUWI-01-01-05 | 2022/02/16               | 2023/02/15                   |
| Signal Analyzer                     | ROHDE&SCHWARZ                     | FSW43              | SUWI-01-02-04 | 2022/05/28               | 2023/05/27                   |
| Test receiver                       | ROHDE&SCHWARZ                     | ESR7               | SUWI-01-10-01 | 2022/02/19               | 2023/02/18                   |
| Receiving antenna                   | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | VULB 9163          | SUWI-01-11-01 | 2021/05/16               | 2023/05/15                   |
| Receiving antenna                   | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | BBHA 9120D         | SUWI-01-11-02 | 2021/05/16               | 2023/05/15                   |
| Receiving antenna                   | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | BBHA 9170          | SUWI-01-11-03 | 2021/05/14               | 2023/05/13                   |
| Amplifier                           | Tonscend                          | TAP9K3G40          | SUWI-01-14-01 | 2022/02/14               | 2023/02/13                   |
| Amplifier                           | Tonscend                          | TAP01018050        | SUWI-01-14-02 | 2022/02/14               | 2023/02/13                   |
| Amplifier                           | Tonscend                          | TAP18040048        | SUWI-01-14-03 | 2022/02/19               | 2023/02/18                   |
| Active Loop Antenna                 | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | FMZB 1519B         | SUWI-01-21-01 | 2021/06/10               | 2023/06/09                   |
| Wideband Radio Communication Tester | Anritsu                           | MT8820C            | SUWI-01-16-08 | 2022/02/14               | 2023/02/13                   |
| Measurement Software                | Tonscend                          | JS32-RE<br>4.0.0.0 | SUWI-02-09-04 | NCR                      | NCR                          |



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## 4 Measurement Uncertainty

| No.   | Item                | Measurement Uncertainty   |
|---|---------------------|---------------------------|
| 1   | Conduction Emission | ± 2.9dB (150kHz to 30MHz) |
| 2   | Radiated Emission   | ± 4.8dB (30MHz -1GHz)     |
|   |                     | ± 4.8dB (1GHz to 18GHz)   |
|   |                     | ± 4.80dB (Above 18GHz)    |
| <p>Remark:</p> <p>The <math>U_{lab}</math> (lab Uncertainty) is less than <math>U_{CISPR/ETSI}</math> (CISPR/ETSI Uncertainty), so the test results</p> <ul style="list-style-type: none"> <li>– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;</li> <li>– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.</li> </ul> |                     |                           |



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## 5 Photographs

### 5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

---End of Report---



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