



## TEST REPORT

**Application No:** ZR/2020/C0062  
**Applicant:** Sony Mobile Communications Inc.  
**Address of Applicant:** 4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002, Japan  
**Manufacturer:** Sony Mobile Communications Inc.  
**Address of Manufacturer:** 4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002, Japan  
**EUT Description:** GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, GPS and NFC  
**Trade Mark:** Sony  
**FCC ID:** PY7-13951F  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2020/12/23  
**Date of Test:** 2020/12/23 to 2021/1/25  
**Date of Issue:** 2021/3/10

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

\* 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              |         | 2021/3/10 |          | Original |
|                 |         |           |          |          |
|                 |         |           |          |          |

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## Test Summary

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

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

Checked By



Jimmy Zhu  
Reviewer

Test By



Ben Huang  
Project Engineer

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## 1 General Information

|                  |                                                               |             |             |
|------------------|---------------------------------------------------------------|-------------|-------------|
| Product Name:    | GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, GPS and NFC |             |             |
| Trade Mark:      | Sony                                                          |             |             |
| S/N:             | 005118ADNVM2                                                  |             |             |
| 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                                                    | 2400~2483.5 | 2400~2483.5 |
|                  | Bluetooth                                                     | 2400~2483.5 | 2400~2483.5 |
|                  | Wi-Fi 5G                                                      | 5150~5850   | 5150~5850   |
|                  | FM                                                            | 88~108      |             |
|                  | GNSS(GPS/Glonass/Beidou/Galileo)                              | 1559~1610   |             |
|                  | NFC                                                           | 13.56       |             |

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**Accessory:**

| Description | Model No. |
|-------------|-----------|
| USB cable1  | UCB24     |
| USB cable2  | UCB20     |
| Earphone    | SBH82D    |
| Adapter     | UCH-32    |

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## 1.1 Description of Support Units

| Description | Manufacturer | Model No.        | Serial No.          | Certificate Type |
|-------------|--------------|------------------|---------------------|------------------|
| Laptop      | Lenovo       | L480             | REF.<br>No.SEA1800  | FCC SDOC         |
| Mouse       | Lenovo       | 3D optical Mouse | REF.<br>No.:SEA2400 | FCC SDOC         |
| Router      | NETGEAR      | R6020            | REF.<br>No.SEA2200  | FCC SDOC         |

## 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                                                                                                                     |

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. : | SGS 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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## 2 Emission Test Results

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

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

#### 2.1.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: Transfer data between the EUT and the PC+USB cable2
- c: GSM 850 Idle+BT+2.4G WLAN + NFC +FM+GPS Rx+ playing MP4 +earphone1 +Cable(worst)+adapter1
- d: WCDMA Band V Idle+BT+5G WLAN + NFC +FM+GPS Rx+ playing MP4 +earphone(worst) + Cable(worst)+adapter1
- e: LTE Band 5 Idle+BT+5G WLAN + NFC+FM +GPS Rx+ camera (Back) +earphone(worst) + Cable(worst)+adapter1
- f: LTE Band 12 Idle+BT+ 2.4G WLAN + NFC+FM +GPS Rx+ camera (Front) +earphone(worst) + Cable(worst)+adapter1

The worst case for final test:

- a: Transfer data between the EUT and the PC+USB cable1
- e: LTE Band 5 Idle+BT+5G WLAN + NFC+FM+GPS Rx+ camera (Back) +earphone(worst) + Cable(worst)+adapter1

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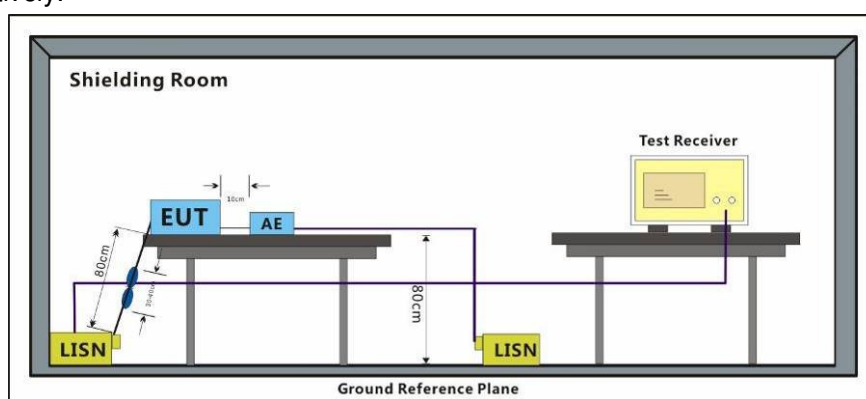
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### 2.1.2 Test Setup Procedures

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



### 2.1.3 Measurement Data

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

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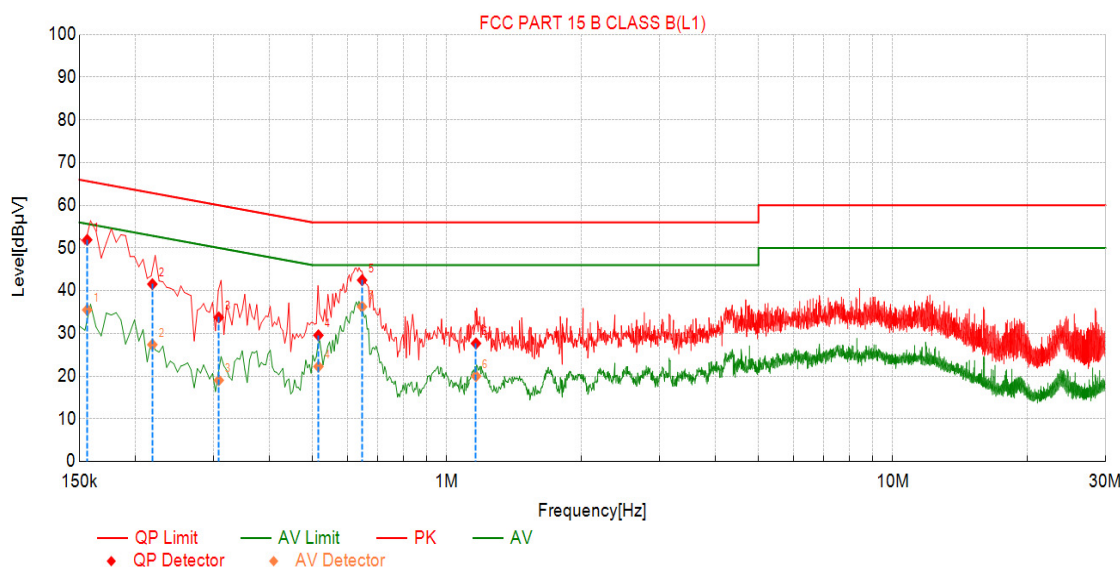
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Mode:a: Line:Live Line



## Final Data List

| NO. | Freq.<br>[MHz] | QP<br>Value<br>[dBμV] | QP<br>Limit<br>[dBμV] | QP<br>Margin<br>[dB] | AV<br>Value<br>[dBμV] | AV<br>Limit<br>[dBμV] | AV<br>Margin<br>[dB] | Verdict |
|-----|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|---------|
| 1   | 0.1563         | 51.90                 | 65.66                 | 13.76                | 35.51                 | 55.66                 | 20.15                | PASS    |
| 2   | 0.2188         | 41.54                 | 62.86                 | 21.32                | 27.37                 | 52.86                 | 25.49                | PASS    |
| 3   | 0.3083         | 33.73                 | 60.02                 | 26.29                | 19.03                 | 50.02                 | 30.99                | PASS    |
| 4   | 0.5156         | 29.56                 | 56.00                 | 26.44                | 22.25                 | 46.00                 | 23.75                | PASS    |
| 5   | 0.6460         | 42.46                 | 56.00                 | 13.54                | 36.26                 | 46.00                 | 9.74                 | PASS    |
| 6   | 1.1631         | 27.66                 | 56.00                 | 28.34                | 19.99                 | 46.00                 | 26.01                | PASS    |

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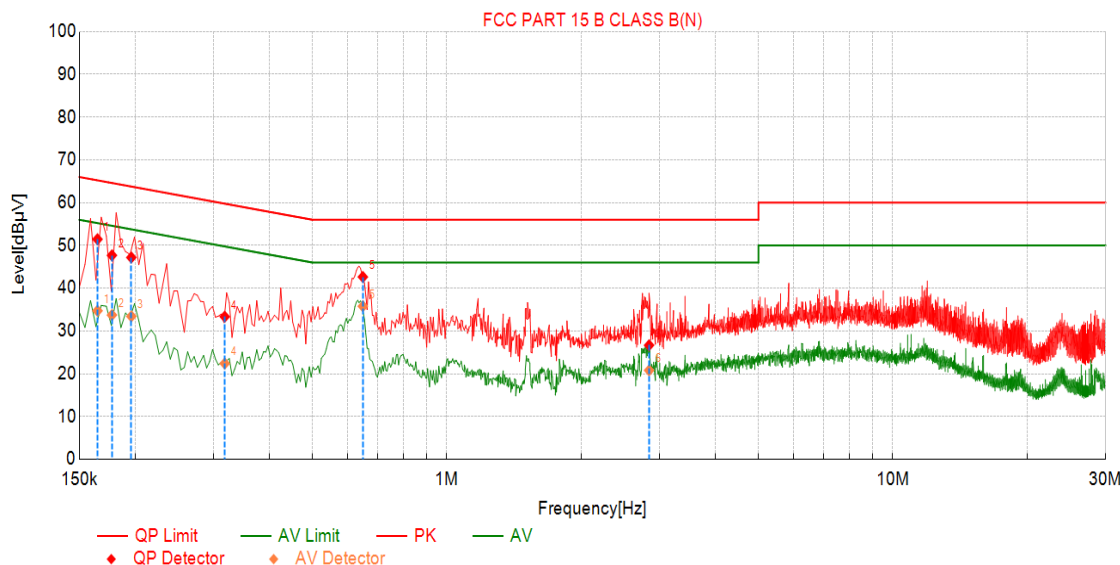
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邮编 710086      sqs.china@sqs.com

Mode:a; Line:Neutral Line



## Final Data List

| NO. | Freq.<br>[MHz] | QP<br>Value<br>[dBμV] | QP<br>Limit<br>[dBμV] | QP<br>Margin<br>[dB] | AV<br>Value<br>[dBμV] | AV<br>Limit<br>[dBμV] | AV<br>Margin<br>[dB] | Verdict |
|-----|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|---------|
| 1   | 0.1648         | 51.45                 | 65.22                 | 13.77                | 34.72                 | 55.22                 | 20.50                | PASS    |
| 2   | 0.1776         | 47.68                 | 64.60                 | 16.92                | 33.73                 | 54.60                 | 20.87                | PASS    |
| 3   | 0.1963         | 47.18                 | 63.77                 | 16.59                | 33.43                 | 53.77                 | 20.34                | PASS    |
| 4   | 0.3179         | 33.34                 | 59.76                 | 26.42                | 22.40                 | 49.76                 | 27.36                | PASS    |
| 5   | 0.6485         | 42.63                 | 56.00                 | 13.37                | 35.79                 | 46.00                 | 10.21                | PASS    |
| 6   | 2.8426         | 26.67                 | 56.00                 | 29.33                | 20.81                 | 46.00                 | 25.19                | PASS    |

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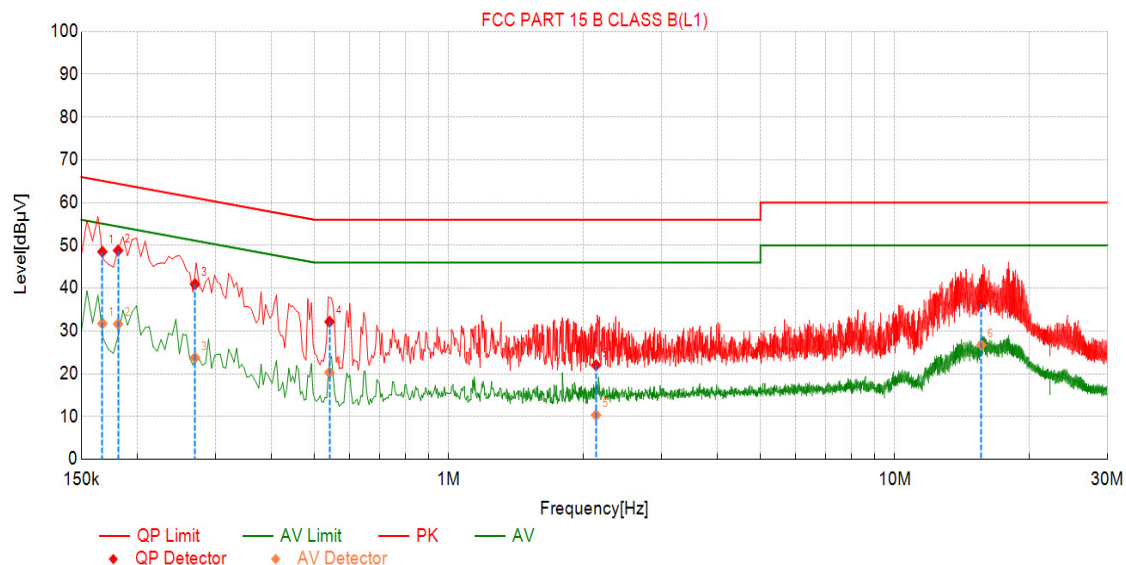
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邮编 710086 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Mode:e; Line:Live Line



## Final Data List

| NO. | Freq.<br>[MHz] | QP<br>Value<br>[dBμV] | QP<br>Limit<br>[dBμV] | QP<br>Margin<br>[dB] | AV<br>Value<br>[dBμV] | AV<br>Limit<br>[dBμV] | AV<br>Margin<br>[dB] | Verdict |
|-----|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|---------|
| 1   | 0.1673         | 48.51                 | 65.09                 | 16.58                | 31.75                 | 55.09                 | 23.34                | PASS    |
| 2   | 0.1814         | 48.82                 | 64.42                 | 15.60                | 31.63                 | 54.42                 | 22.79                | PASS    |
| 3   | 0.2698         | 40.92                 | 61.12                 | 20.20                | 23.75                 | 51.12                 | 27.37                | PASS    |
| 4   | 0.5404         | 32.16                 | 56.00                 | 23.84                | 20.30                 | 46.00                 | 25.70                | PASS    |
| 5   | 2.1391         | 21.99                 | 56.00                 | 34.01                | 10.34                 | 46.00                 | 35.66                | PASS    |
| 6   | 15.6416        | 36.38                 | 60.00                 | 23.62                | 26.71                 | 50.00                 | 23.29                | PASS    |

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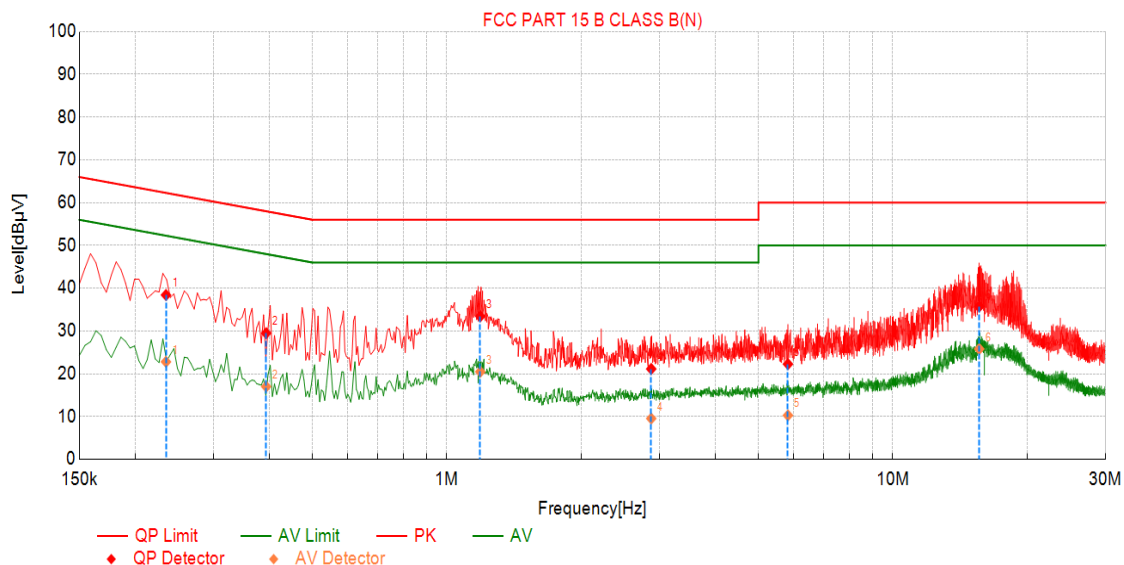
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Mode:e; Line:Neutral Line



## Final Data List

| NO. | Freq.<br>[MHz] | QP<br>Value<br>[dBμV] | QP<br>Limit<br>[dBμV] | QP<br>Margin<br>[dB] | AV<br>Value<br>[dBμV] | AV<br>Limit<br>[dBμV] | AV<br>Margin<br>[dB] | Verdict |
|-----|----------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|---------|
| 1   | 0.2347         | 38.40                 | 62.28                 | 23.88                | 22.79                 | 52.28                 | 29.49                | PASS    |
| 2   | 0.3937         | 29.48                 | 57.98                 | 28.50                | 17.00                 | 47.98                 | 30.98                | PASS    |
| 3   | 1.1892         | 33.43                 | 56.00                 | 22.57                | 20.46                 | 46.00                 | 25.54                | PASS    |
| 4   | 2.8737         | 21.13                 | 56.00                 | 34.87                | 9.53                  | 46.00                 | 36.47                | PASS    |
| 5   | 5.8198         | 22.27                 | 60.00                 | 37.73                | 10.27                 | 50.00                 | 39.73                | PASS    |
| 6   | 15.6287        | 35.75                 | 60.00                 | 24.25                | 25.79                 | 50.00                 | 24.21                | PASS    |

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## 2.2 Radiated Emissions (30MHz-1GHz)

|                       |                                                               |
|-----------------------|---------------------------------------------------------------|
| Test Requirement:     | 47 CFR Part 15, Subpart B                                     |
| Test Method:          | ANSI C63.4:2014                                               |
| Frequency Range:      | 30MHz to 1GHz                                                 |
| Measurement Distance: | 3m                                                            |
| Limit:                |                                                               |
| 30MHz -88MHz          | 40.0(dBμV/m) quasi-peak                                       |
| 88MHz-216MHz          | 43.5(dBμV/m) quasi-peak                                       |
| 216MHz-960MHz         | 46.0(dBμV/m) quasi-peak                                       |
| 960MHz-1000MHz        | 54.0(dBμV/m) quasi-peak                                       |
| Detector:             | Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz |

### 2.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 66.5 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: Transfer data between the EUT and the PC+USB cable2
- c: GSM 850 Idle+BT+2.4G WLAN + NFC +FM+GPS Rx+ playing MP4 +earphone1 +Cable(worst)+adapter1
- d: WCDMA Band V Idle+BT+5G WLAN + NFC +FM+GPS Rx+ playing MP4 +earphone(worst) + Cable(worst)+adapter1
- e: LTE Band 5 Idle+BT+5G WLAN + NFC+FM +GPS Rx+ camera (Back) +earphone(worst) + Cable(worst)+adapter1
- f: LTE Band 12 Idle+BT+ 2.4G WLAN + NFC+FM +GPS Rx+ camera (Front) +earphone(worst) + Cable(worst)+adapter1

The worst case for final test:

- b: Transfer data between the EUT and the PC+USB cable2
- e: LTE Band 5 Idle+BT+5G WLAN + NFC+FM +GPS Rx+ camera (Back) +earphone(worst) + Cable(worst)+adapter1

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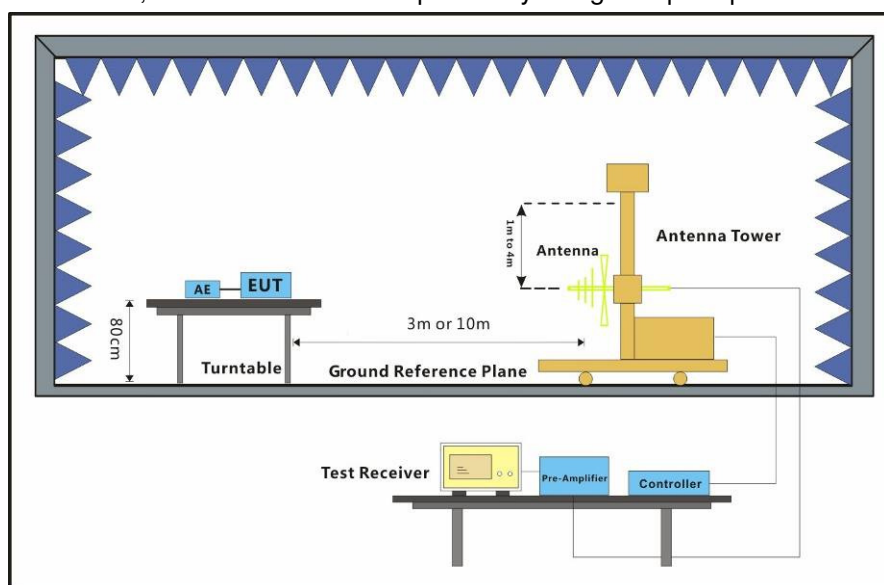
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### 2.2.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.



### 2.2.3 Measurement Data

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

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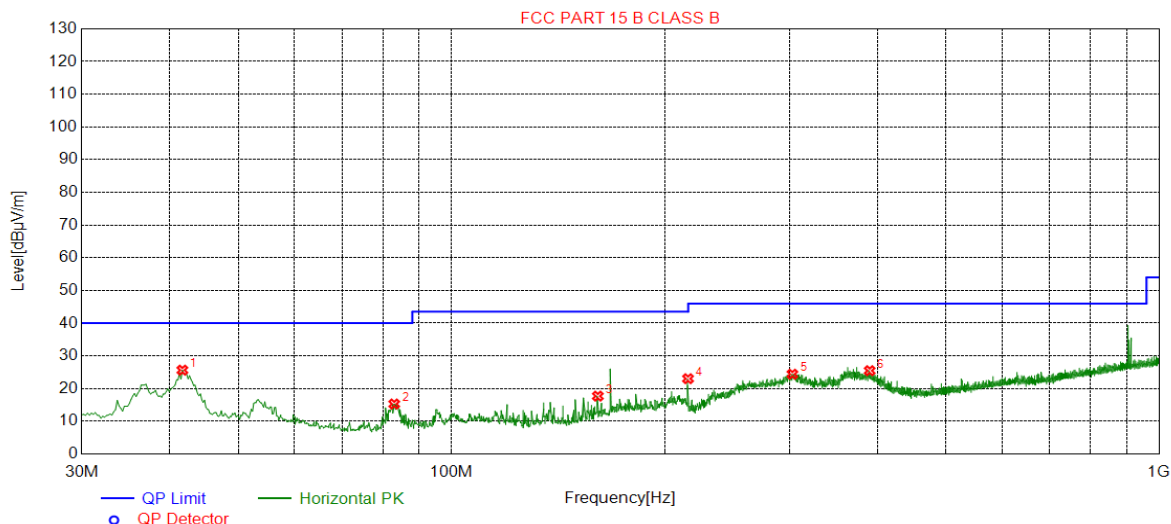
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Mode:b; Polarization:Horizontal



### Suspected List

| Suspected List |                |                   |                |                   |                |                |              |            |
|----------------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| NO.            | Freq.<br>[MHz] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1              | 41.6423        | 25.65             | -29.03         | 40.00             | 14.35          | 200            | 159          | Horizontal |
| 2              | 82.9726        | 15.30             | -35.43         | 40.00             | 24.70          | 200            | 9            | Horizontal |
| 3              | 160.976        | 17.71             | -34.57         | 43.50             | 25.79          | 100            | 81           | Horizontal |
| 4              | 215.889        | 23.04             | -30.82         | 43.50             | 20.46          | 200            | 32           | Horizontal |
| 5              | 303.206        | 24.41             | -28.17         | 46.00             | 21.59          | 100            | 56           | Horizontal |
| 6              | 389.942        | 25.48             | -25.77         | 46.00             | 20.52          | 100            | 50           | Horizontal |

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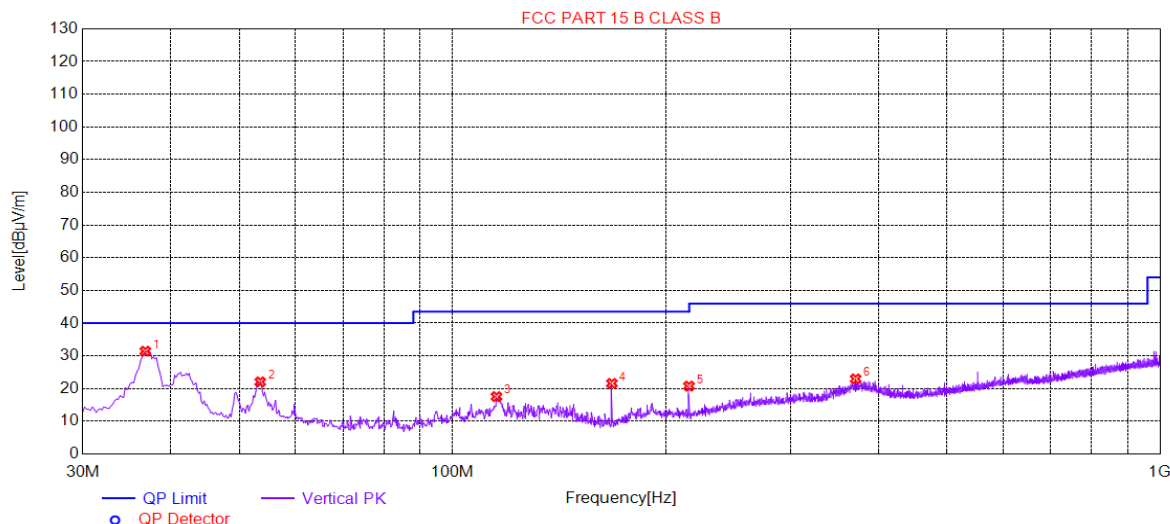
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Mode:b; Polarization:Vertical



### Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 36.7914     | 31.45          | -29.38      | 40.00          | 8.55        | 100         | 360       | Vertical |
| 2              | 53.4787     | 22.06          | -30.89      | 40.00          | 17.94       | 100         | 324       | Vertical |
| 3              | 115.377     | 17.56          | -32.84      | 43.50          | 25.94       | 100         | 355       | Vertical |
| 4              | 167.961     | 21.59          | -34.16      | 43.50          | 21.91       | 100         | 68        | Vertical |
| 5              | 215.889     | 20.76          | -30.82      | 43.50          | 22.74       | 100         | 14        | Vertical |
| 6              | 371.314     | 22.98          | -26.30      | 46.00          | 23.02       | 200         | 12        | Vertical |

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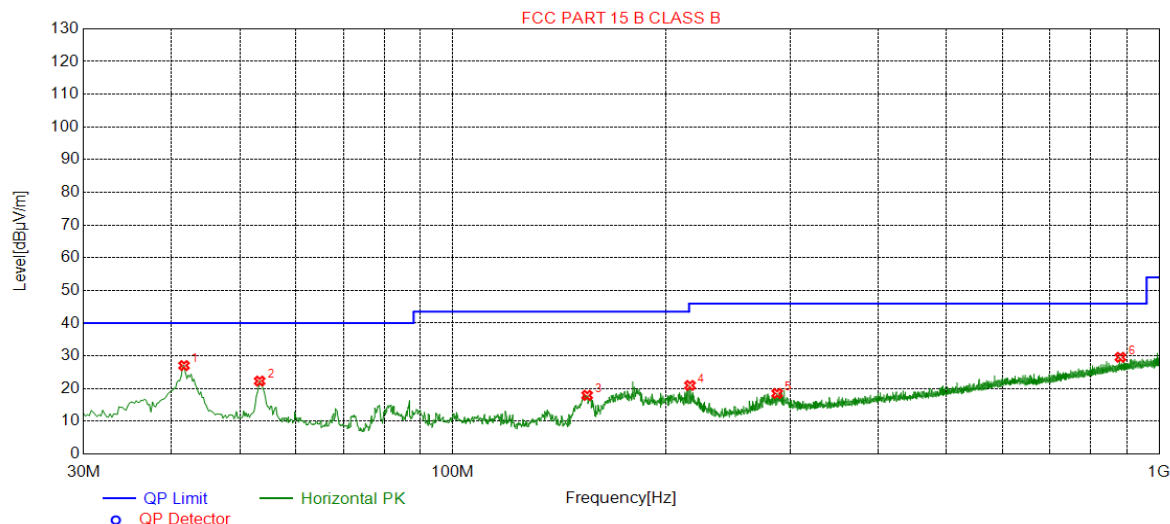
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Mode:e; Polarization:Horizontal



## Suspected List

| Suspected List |                |                   |                |                   |                |                |              |            |
|----------------|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| NO.            | Freq.<br>[MHz] | Level<br>[dBμV/m] | Factor<br>[dB] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1              | 41.6423        | 27.05             | -29.03         | 40.00             | 12.95          | 200            | 139          | Horizontal |
| 2              | 53.2847        | 22.31             | -30.86         | 40.00             | 17.69          | 200            | 275          | Horizontal |
| 3              | 154.961        | 17.95             | -34.86         | 43.50             | 25.55          | 200            | 112          | Horizontal |
| 4              | 216.665        | 20.97             | -30.80         | 46.00             | 25.03          | 100            | 106          | Horizontal |
| 5              | 287.877        | 18.53             | -28.72         | 46.00             | 27.47          | 100            | 124          | Horizontal |
| 6              | 881.442        | 29.58             | -16.35         | 46.00             | 16.42          | 100            | 28           | Horizontal |

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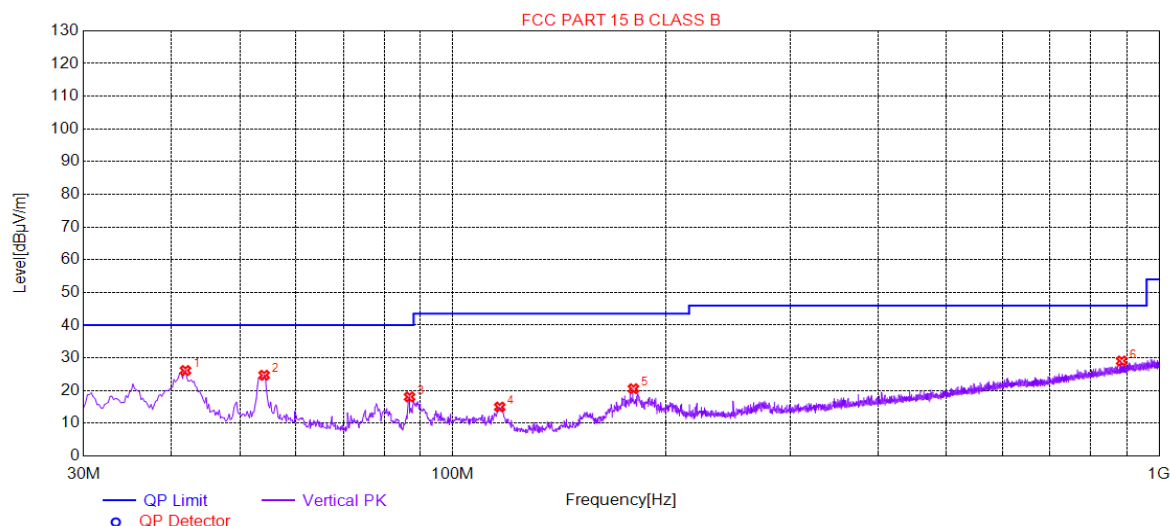
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Mode:e; Polarization:Vertical



## Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 41.8364     | 26.15          | -29.11      | 40.00          | 13.85       | 100         | 34        | Vertical |
| 2              | 54.0608     | 24.71          | -30.98      | 40.00          | 15.29       | 100         | 335       | Vertical |
| 3              | 86.8534     | 18.07          | -34.48      | 40.00          | 21.93       | 100         | 71        | Vertical |
| 4              | 116.541     | 14.99          | -33.03      | 43.50          | 28.51       | 100         | 341       | Vertical |
| 5              | 180.186     | 20.57          | -33.27      | 43.50          | 22.93       | 100         | 327       | Vertical |
| 6              | 885.129     | 29.05          | -16.28      | 46.00          | 16.95       | 200         | 90        | Vertical |

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## 2.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B  
 Test Method: ANSI C63.4:2014  
 Frequency Range: Above 1GHz  
 Measurement Distance: 3m  
 Limit:  
 Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average  
 Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

### 2.3.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: Transfer data between the EUT and the PC+USB cable2
- c: GSM 850 Idle+BT+2.4G WLAN + NFC +FM+GPS Rx+ playing MP4 +earphone1 +Cable(worst)+adapter1
- d: WCDMA Band V Idle+BT+5G WLAN + NFC +FM+GPS Rx+ playing MP4 +earphone(worst) + Cable(worst)+adapter1
- e: LTE Band 5 Idle+BT+5G WLAN + NFC+FM +GPS Rx+ camera (Back) +earphone(worst) + Cable(worst)+adapter1
- f: LTE Band 12 Idle+BT+ 2.4G WLAN + NFC+FM +GPS Rx+ camera (Front) +earphone(worst) + Cable(worst)+adapter1

The worst case for final test:

- a: Transfer data between the EUT and the PC+USB cable1
- e: LTE Band 5 Idle+BT+5G WLAN + NFC+FM +GPS Rx+ camera (Back) +earphone(worst) + Cable(worst)+adapter1

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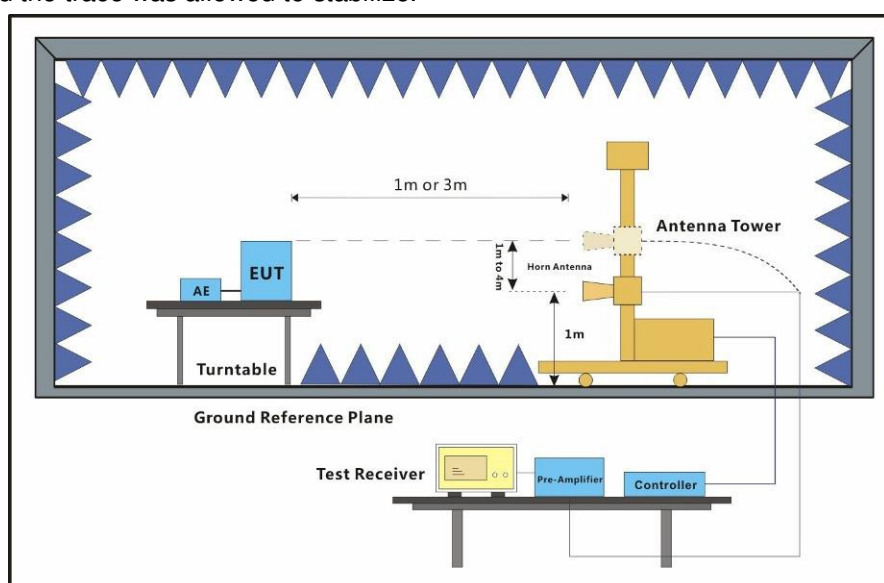
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### 2.3.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.



### 2.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. Three orthogonal axes of X,Y,Z are tested by EUT using Horn antenna with 2 orthogonal polarities, but only the worst data had been displayed.

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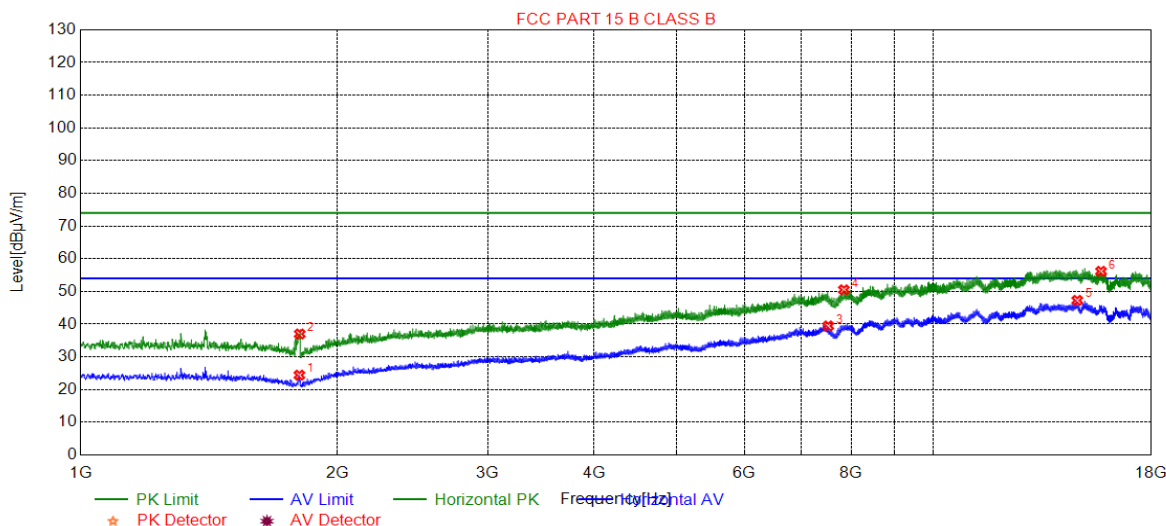
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Mode:a; Polarization:Horizontal



## Suspected List

| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 1804.99     | 24.43          | -32.18      | 54.00          | 29.57       | 100         | 37        | Horizontal |
| 2              | 1806.69     | 37.00          | -32.14      | 74.00          | 37.00       | 100         | 16        | Horizontal |
| 3              | 7523.22     | 39.47          | -9.53       | 54.00          | 14.53       | 200         | 88        | Horizontal |
| 4              | 7847.94     | 50.51          | -8.70       | 74.00          | 23.49       | 100         | 101       | Horizontal |
| 5              | 14734.9     | 47.28          | 0.83        | 54.00          | 6.72        | 200         | 173       | Horizontal |
| 6              | 15710.8     | 56.17          | 0.32        | 74.00          | 17.83       | 100         | 208       | Horizontal |

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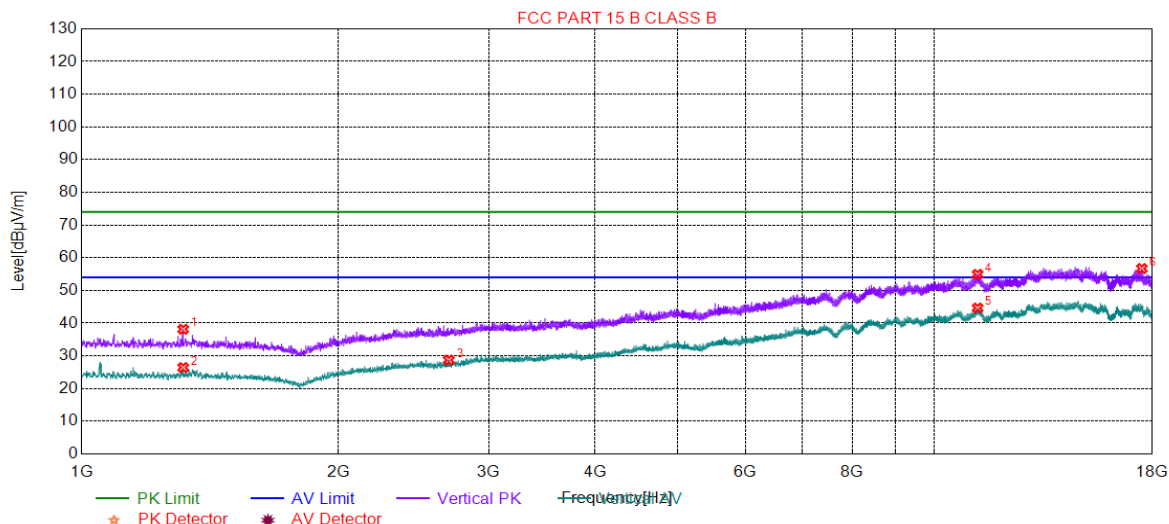
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Mode:a; Polarization:Vertical



## Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 1315.36     | 38.14          | -29.95      | 74.00          | 35.86       | 100         | 38        | Vertical |
| 2              | 1315.36     | 26.44          | -29.95      | 54.00          | 27.56       | 100         | 38        | Vertical |
| 3              | 2694.13     | 28.73          | -25.18      | 54.00          | 25.27       | 200         | 22        | Vertical |
| 4              | 11228.5     | 54.94          | -3.22       | 74.00          | 19.06       | 100         | 318       | Vertical |
| 5              | 11228.5     | 44.65          | -3.22       | 54.00          | 9.35        | 200         | 66        | Vertical |
| 6              | 17493.3     | 56.72          | -1.64       | 74.00          | 17.28       | 100         | 232       | Vertical |

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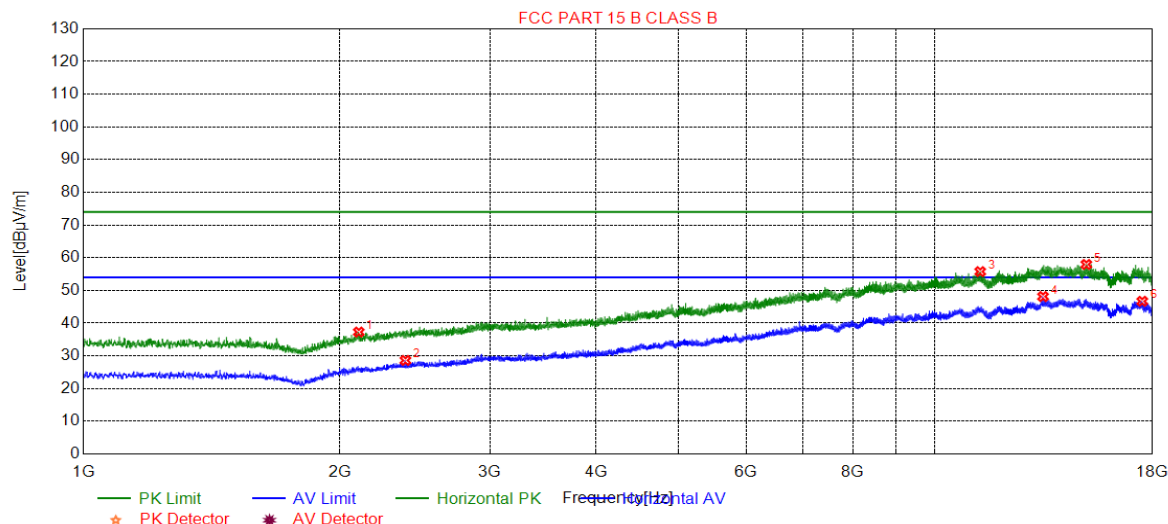
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Mode:e; Polarization:Horizontal



## Suspected List

| Suspected List |             |                |                |             |             |           |            |
|----------------|-------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2105.055    | 37.29          | 74.00          | 36.71       | 200         | 360       | Horizontal |
| 2              | 2388.119    | 28.62          | 54.00          | 25.38       | 100         | 0         | Horizontal |
| 3              | 11296.56    | 55.77          | 74.00          | 18.23       | 100         | 170       | Horizontal |
| 4              | 13386.81    | 48.14          | 54.00          | 5.86        | 100         | 301       | Horizontal |
| 5              | 15048.65    | 57.96          | 74.00          | 16.04       | 200         | 257       | Horizontal |
| 6              | 17505.27    | 46.70          | 54.00          | 7.30        | 200         | 344       | Horizontal |

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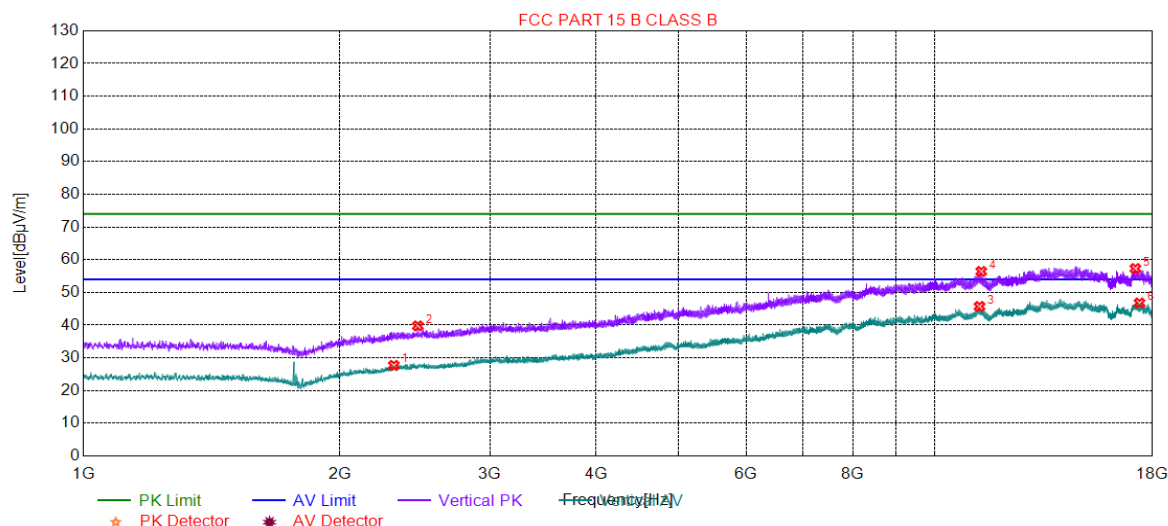
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Mode:e; Polarization:Vertical



## Suspected List

| Suspected List |             |                |                |             |             |           |          |
|----------------|-------------|----------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2314.165    | 27.71          | 54.00          | 26.29       | 100         | 105       | Vertical |
| 2              | 2469.723    | 39.78          | 74.00          | 34.22       | 100         | 127       | Vertical |
| 3              | 11273.61    | 45.73          | 54.00          | 8.27        | 100         | 148       | Vertical |
| 4              | 11326.31    | 56.44          | 74.00          | 17.56       | 100         | 322       | Vertical |
| 5              | 17183.10    | 57.32          | 74.00          | 16.68       | 200         | 83        | Vertical |
| 6              | 17376.91    | 46.79          | 54.00          | 7.21        | 200         | 323       | Vertical |

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### 3 Equipment List

| Chamber                             |               |             |               |              |              |
|-------------------------------------|---------------|-------------|---------------|--------------|--------------|
| Test Equipment                      | Manufacturer  | Model No.   | Inventory No. | Cal. date    | Cal.Due date |
|                                     |               |             |               | (yyyy-mm-dd) | (yyyy-mm-dd) |
| Semi-Anechoic Chamber               | Brilliant-emc | 966         | XAW03-35-01   | NCR          | NCR          |
| MXA signal analyzer                 | Keysight      | N9020A      | XAW01-06-01   | 2020/4/2     | 2021/4/2     |
| Radio communication analyzer        | ROHDE&SCHWARZ | CMW 500     | XAW01-03-02   | 2020/4/2     | 2021/4/2     |
| Test receiver                       | ROHDE&SCHWARZ | ESR         | XAW01-08-01   | 2020/9/7     | 2021/9/6     |
| Receiving antenna                   | Rosenberger   | VULB 9163   | XAW01-09-01   | 2019/10/13   | 2021/10/12   |
| Receiving antenna                   | Rosenberger   | BBHA 9120D  | XAW01-09-02   | 2019/10/13   | 2021/10/12   |
| Receiving antenna                   | Rosenberger   | 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          |
| Filter bank                         | Tonscend      | JS0806-F    | XAW03-05-01   | NCR          | NCR          |
| Filter bank                         | Tonscend      | JS0806s     | XAW03-05-02   | NCR          | NCR          |
| Amplifier                           | Tonscend      | TAP00903040 | XAW01-41-01   | 2020/11/18   | 2021/11/18   |
| Amplifier                           | Tonscend      | TAP01018048 | XAW01-41-02   | 2020/11/18   | 2021/11/18   |
| Amplifier                           | Tonscend      | TAP18040048 | XAW01-41-03   | 2020/12/3    | 2021/12/3    |
| Amplifier                           | Brilliant-emc | YX28980930  | XAW01-41-06   | 2020/11/18   | 2021/11/18   |
| Artificial network                  | ROHDE&SCHWARZ | ENV216      | XAW01-19-02   | 2020/9/16    | 2021/9/15    |

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## 4 Measurement Uncertainty

| No. | Item                | Measurement Uncertainty              |
|-----|---------------------|--------------------------------------|
| 1   | Conduction Emission | $\pm 3.4\text{dB}$ (150kHz to 30MHz) |
| 2   | Radiated Emission   | $\pm 4.8\text{dB}$ (30MHz-1GHz)      |
|     |                     | $\pm 5.2\text{dB}$ (1GHz-6GHz)       |
|     |                     | $\pm 5.5\text{dB}$ (6GHz-18GHz)      |
|     |                     | $\pm 5.02\text{dB}$ (18GHz-40GHz)    |

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## 5 Photographs

### 5.1 Test Setup

Refer to Appendix A JBP&CXX Setup Photos.

### 5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -

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