# TEST REPORT

| | |
|---|---|
| **Applicant:** | Sony Corporation |
| **EUT Description:** | GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, NFC and GNSS |
| **Brand:** | Sony |
| **FCC ID:** | PY7-37016L |
| **Standards:** | FCC 47 CFR Part 15 Subpart B |
| **Date of Receipt:** | 2023/11/14 |
| **Date of Test:** | 2023/11/14 to 2024/01/25 |
| **Date of Issue:** | 2024/01/26 |

TOWE. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

the results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of TOWE, the test report shall not be reproduced except in full.

ACCREDITED
CERTIFICATE #7088.01

**Huang Kun**
**Approved By:**

**Ou Shuyan**
**Reviewed By:**

# Revision History

| Rev. | Issue Date | Description | Revised by |
|---|---|---|---|
| 01 | 2024/01/26 | Original | Ou Shuyan |

# Summary of Test Results

| Clause | Test Items | Test Standard | Result |
|---|---|---|---|
| 4.1 | AC Conducted Emissions | §15.107 | PASS |
| 4.2 | Radiated Emissions | §15.109 | PASS |
| Test Method: ANSI C63.4-2014<br>Remark: Pass is EUT meets standard requirements. | | | |

# Table of Contents

# 1 General Description

## 1.1 Lab Information

### 1.1.1 Testing Location

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014
Tel.: +86-755-27212361
Contact Email: info@towewireless.com

### 1.1.2 Test Facility / Accreditations

**A2LA (Certificate Number: 7088.01)**
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

**FCC Designation No.: CN1353**
Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1353.

**ISED CAB identifier: CN0152**
Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.
CAB identifier: CN0152
Company Number: 31000

## 1.2 Client Information

### 1.2.1 Applicant

| | |
|---|---|
| Applicant: | Sony Corporation |
| Address: | 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan |

### 1.2.2 Manufacturer

| | |
|---|---|
| Manufacturer: | Sony Corporation |
| Address: | 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan |

## 1.3 General Description of EUT

| | | | |
|---|---|---|---|
| EUT Description: | GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, NFC and GNSS | | |
| Brand: | Sony | | |
| Hardware Version: | A | | |
| Software Version: | 1.59 | | |
| SN.: | HQ63B1049E | | |
| Frequency Bands: | Frequency Bands: | Tx Frequency Bands: | Rx Frequency Bands: |
| | GSM850 | 824~849 | 869~894 |
| | GSM1900 | 1850~1910 | 1930~1990 |
| | WCDMA Band V | 824~849 | 869~894 |
| | LTE Band 12 | 699~716 | 729~749 |
| | LTE Band 41 | 2496~2690 | 2496~2690 |
| | Bluetooth | 2402~2480 | 2402~2480 |
| | Wi-Fi 2.4G | 2412~2462 | 2412~2462 |
| | Wi-Fi 5G | 5150~5850 | 5150~5850 |
| | NFC | 13.56 | 13.56 |
| | GNSS (GPS+Glonass + Galileo + Beidou) | / | 1559~1610 |
| Remark: The above EUT's information was declared by applicant, please refer to the specifications or user's manual for more detailed description. | | | |

# 2 Test Configuration During Test

## 2.1 Support Unit used in test

| Description | Manufacturer | Model | Serial Number |
|---|---|---|---|
| Laptop | DELL | Latitude 5520 | C196418CAB1C |
| Remark: *the information is provided by applicant. | | | |

## 2.2 Accessory

| Name | Model | Length (cm) | Shielded (Y/N) | Manufacturer |
|---|---|---|---|---|
| Adapter | XQZ-UC1 | / | / | Sony Corporation |
| USB Cable 1 | XQZ-UB1 | 100 | Y | Sony Corporation |
| USB Cable 2 | UCB20 | 100 | Y | Sony Corporation |
| Earphone | MDR-EX15AP | 125 | / | Sony Corporation |

## 2.3 Test Environment

| | |
|---|---|
| **Temperature:** | Normal: 15℃ ~ 35℃ |
| **Humidity:** | 40-75 % RH Ambient |
| **Test Voltage:** | AC 120V/60Hz |
| Remark: The testing environment is within the scope of the EUT user manual and meets the requirements of the standard testing environment. | |

## 2.4 Modifications

No modifications were made during testing.

## 2.5 EUT Test Mode

| Test Items | Test mode |
|---|---|
| AC Conducted Emissions | Mode1: Charging(Adapter) + Camera(Rear) + Earphone<br>Mode2: Charging(Adapter) + Camera(Front) + Earphone<br>Mode3: Charging(Adapter) + MP4 Playing + Earphone(worst case for JBP)<br>Mode4: USB data communication with PC + Earphone<br>Mode5: Charging(Adapter) + GSM 850 idle + Earphone<br>Mode6: Charging(Adapter) + WCDMA Band V RX + Earphone(worst case for CXX)<br>Mode7: Charging(Adapter) + LTE Band 12 RX + Earphone<br>Mode8: Charging(Adapter) + Earphone + BT + Wi-Fi + NFC On + GNSS RX |
| Radiated Emissions | Mode1: Charging(Adapter) + Camera(Rear) + Earphone<br>Mode2: Charging(Adapter) + Camera(Front) + Earphone<br>Mode3: Charging(Adapter) + MP4 Playing + Earphone<br>Mode4: USB data communication with PC + Earphone(worst case for JBP)<br>Mode5: Charging(Adapter) + GSM 850 idle + Earphone<br>Mode6: Charging(Adapter) + WCDMA Band V RX + Earphone<br>Mode7: Charging(Adapter) + LTE Band 12 RX + Earphone(worst case for CXX)<br>Mode8: Charging(Adapter) + Earphone + BT + Wi-Fi + NFC On + GNSS RX |
| NOTE | All modes of operation were investigated, and only the worst case emissions are reported. |

# 3 Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable to recognized national standards.

## 3.1 Test Equipment List

| Radiated Emission | | | | | |
|---|---|---|---|---|---|
| **Description** | **Manufacturer** | **Model** | **S.N.** | **Last Due** | **Cal Due** |
| Biconic Logarithmic Periodic Antennas | Schwarzbeck | VULB9163 | 1643 | 2023/06/25 | 2025/06/24 |
| Double-Ridged Horn Antennas | Schwarzbeck | BBHA 9120D | 2809 | 2023/06/25 | 2025/06/24 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | 1290 | 2023/06/25 | 2025/06/24 |
| Signal Analyzer | Keysight | N9020A | MY49100252 | 2023/04/08 | 2024/04/07 |
| EMI Tester Receiver | Rohde & Schwarz | ESR7 | 102719 | 2023/08/17 | 2024/08/16 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW500 | 150645 | 2023/04/08 | 2024/04/07 |
| Low Noise Amplifier | Tonscend | TAP9K3G40 | AP23A8060273 | 2023/04/08 | 2024/04/07 |
| Low Noise Amplifier | Tonscend | TAP01018050 | AP22G806258 | 2023/04/08 | 2024/04/07 |
| Band Reject Filter Group | Townshend | JS0806-F | 23A806F0652 | N/A | N/A |
| Test Software | Tonscend | TS+ | Version: 5.0.0 | N/A | N/A |

| Conducted Emission | | | | | |
|---|---|---|---|---|---|
| **Description** | **Manufacturer** | **Model** | **S.N.** | **Last Due** | **Cal Due** |
| EMI Tester Receiver | Rohde & Schwarz | ESR3 | 103108 | 2023/07/28 | 2024/07/27 |
| LISN | Rohde & Schwarz | ENV 216 | 102836 | 2023/04/08 | 2024/04/07 |
| Test software | Rohde & Schwarz | ELEKTRA v4.61 | N/A | N/A | N/A |

## 3.2 Measurement Uncertainty

| Parameter | $U_{lab}$ |
|---|---|
| Conducted Emissions(150KHz~30MHz) | 2.43dB |
| Radiated Emissions(30MHz~1000MHz) | 4.66dB |
| Radiated Emissions(1GHz~18GHHz) | 5.42dB |
| Radiated Emissions(18GHz~40GHHz) | 5.46dB |

Uncertainty figures are valid to a confidence level of 95%

# 4 Test Results

## 4.1 AC Conducted Emissions

**Limits**

| Frequency range (MHz) | Limit (dBμV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |
| * Decreases with the logarithm of the frequency. | | |

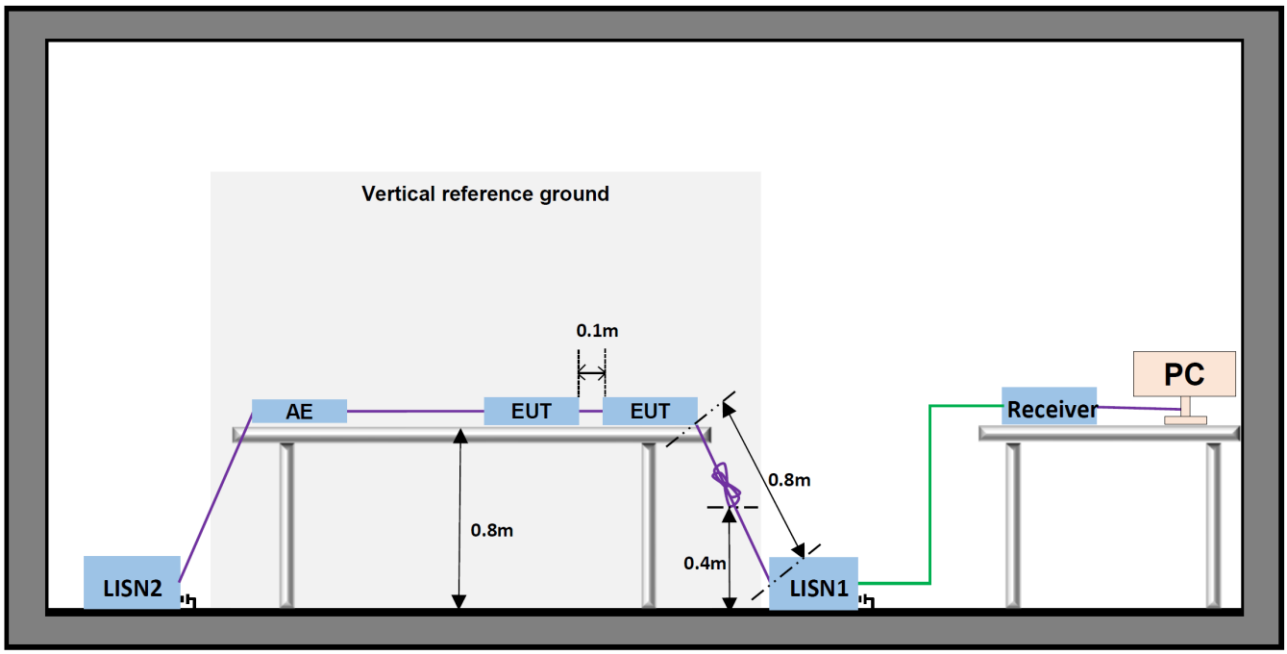
**Test Procedure**

ANSI C63.4-2014.

**Test Settings**

1. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
2. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
3. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
4. Set the test-receiver system to Peak detect function and specified bandwidth (if bandwidth =9kHz) with maximum hod mode. Then measurement is also conducted by average detector and Quasi-Peak detector function respectively.
5. Both sides of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.

**Test Setup**

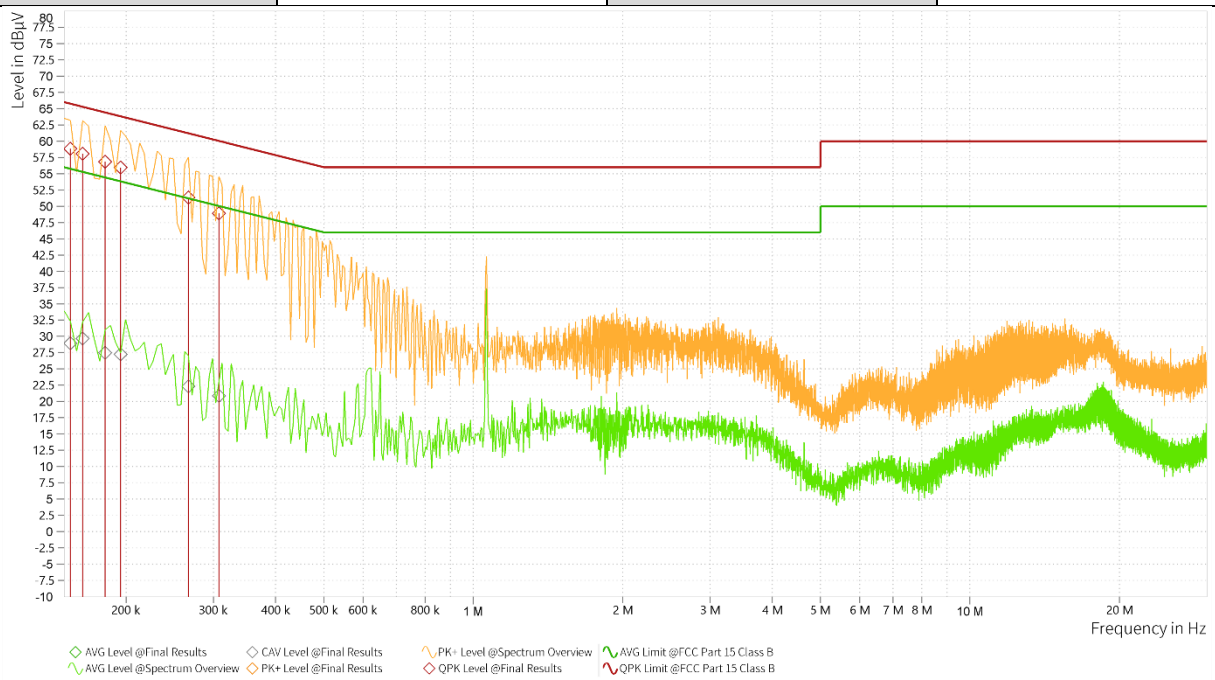



**Measuring Instruments**

The measuring equipment is listed in the section 3.1 of this test report.

**Test Result:**

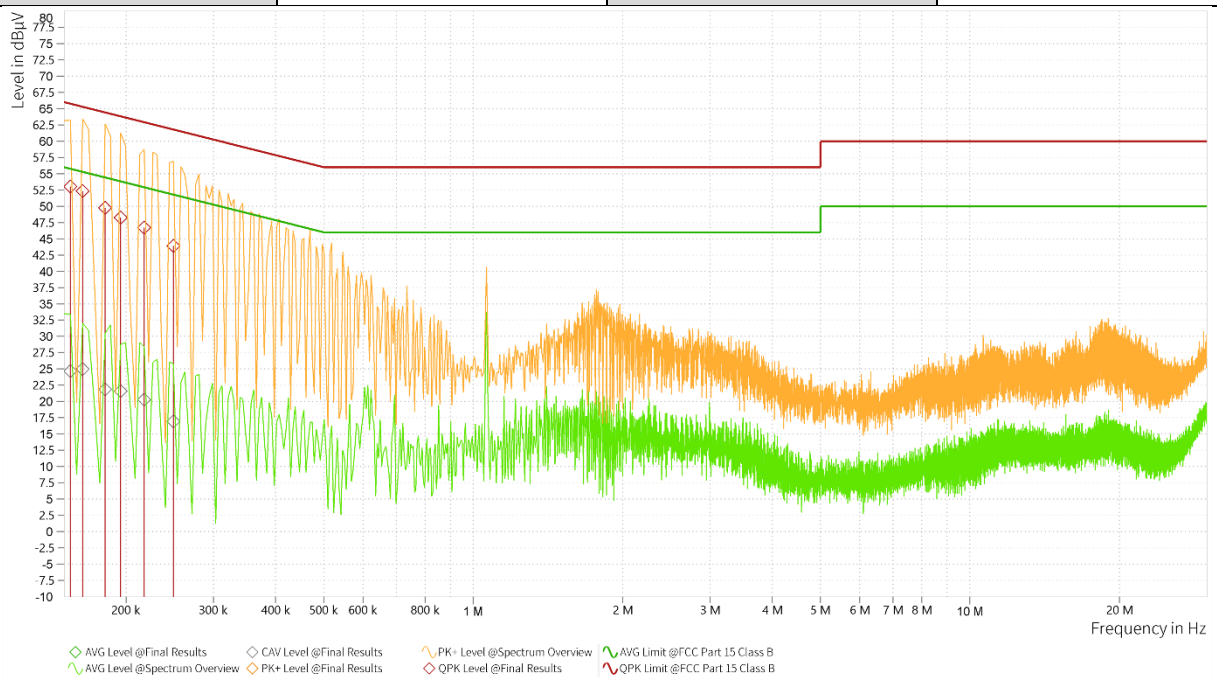
| Final Test mode: | Mode 1 | | |
|---|---|---|---|
| Test Voltage: | AC 120V / 60Hz | Phase: | Line |




| Frequency [MHz] | CAV Level [dBµV] | CAV: AVG Limit [dBµV] | CAV Margin [dB] | CAV Raw Lvl [dBµV] | QPK Level [dBµV] | QPK Limit [dBµV] | QPK Margin [dB] | QPK Raw Lvl [dBµV] | Correction [dB] | Line |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.155 | 28.93 | 55.75 | 26.82 | 18.45 | 58.83 | 65.75 | 6.93 | 48.34 | 10.48 | L1 |
| 0.164 | 29.69 | 55.28 | 25.60 | 19.21 | 58.06 | 65.28 | 7.22 | 47.58 | 10.48 | L1 |
| 0.182 | 27.47 | 54.42 | 26.95 | 16.98 | 56.82 | 64.42 | 7.60 | 46.33 | 10.49 | L1 |
| 0.195 | 27.26 | 53.82 | 26.56 | 16.77 | 55.95 | 63.82 | 7.87 | 45.46 | 10.49 | L1 |
| 0.267 | 22.31 | 51.21 | 28.91 | 11.80 | 51.32 | 61.21 | 9.89 | 40.81 | 10.51 | L1 |
| 0.308 | 20.87 | 50.04 | 29.17 | 10.35 | 48.93 | 60.04 | 11.11 | 38.41 | 10.52 | L1 |

Note:
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Level = Raw Lvl [dBµV] + Correction (LISN factor[dB] + Cable loss[dB]).
3. Margin=Limit - Level

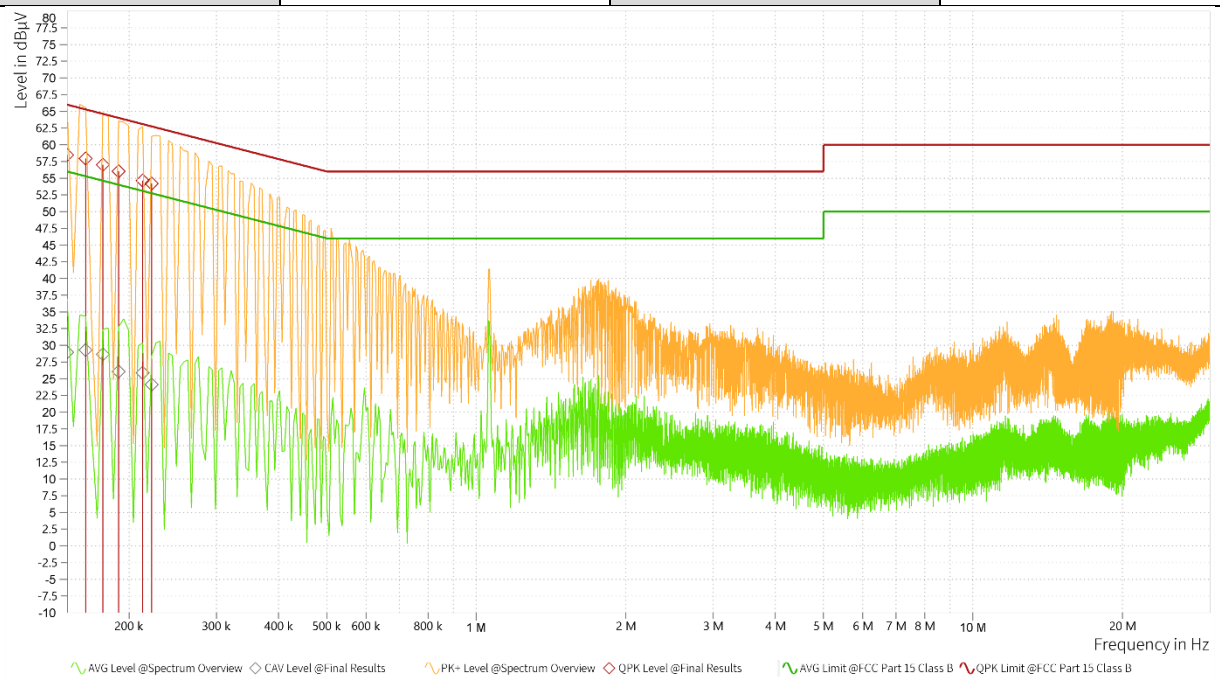
| Final Test mode: | Mode 1 | | |
|---|---|---|---|
| Test Voltage: | AC 120V / 60Hz | Phase: | Neutral |




| Frequency [MHz] | CAV Level [dBµV] | CAV: AVG Limit [dBµV] | CAV Margin [dB] | CAV Raw Lvl [dBµV] | QPK Level [dBµV] | QPK Limit [dBµV] | QPK Margin [dB] | QPK Raw Lvl [dBµV] | Correction [dB] | Line |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.155 | 24.67 | 55.75 | 31.08 | 14.24 | 53.03 | 65.75 | 12.73 | 42.60 | 10.43 | N |
| 0.164 | 24.97 | 55.28 | 30.31 | 14.55 | 52.33 | 65.28 | 12.95 | 41.92 | 10.42 | N |
| 0.182 | 21.85 | 54.42 | 32.57 | 11.44 | 49.76 | 64.42 | 14.66 | 39.35 | 10.41 | N |
| 0.195 | 21.60 | 53.82 | 32.22 | 11.19 | 48.25 | 63.82 | 15.57 | 37.85 | 10.41 | N |
| 0.218 | 20.28 | 52.91 | 32.63 | 9.88 | 46.74 | 62.91 | 16.18 | 36.33 | 10.40 | N |
| 0.249 | 16.93 | 51.79 | 34.86 | 6.53 | 43.89 | 61.79 | 17.90 | 33.48 | 10.40 | N |

Note:
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Level = Raw Lvl [dBµV] + Correction (LISN factor[dB] + Cable loss[dB]).
3. Margin=Limit - Level

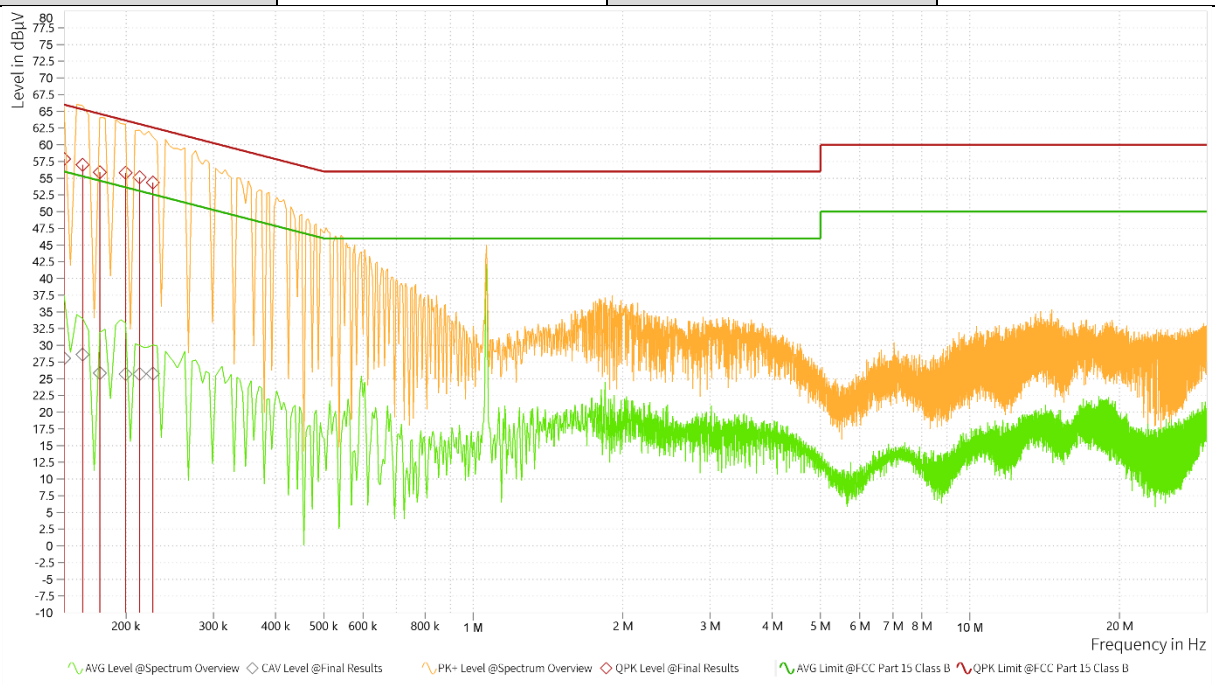
| Final Test mode: | Mode 6 | | |
|---|---|---|---|
| Test Voltage: | AC 120V / 60Hz | Phase: | Line |




| Frequency [MHz] | CAV Level [dBµV] | CAV: AVG Limit [dBµV] | CAV Margin [dB] | CAV Raw Lvl [dBµV] | QPK Level [dBµV] | QPK Limit [dBµV] | QPK Margin [dB] | QPK Raw Lvl [dBµV] | Correction [dB] | Line |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.150 | 28.95 | 56.00 | 27.05 | 18.47 | 58.48 | 66.00 | 7.52 | 48.00 | 10.48 | L1 |
| 0.164 | 29.28 | 55.28 | 26.00 | 18.80 | 57.93 | 65.28 | 7.36 | 47.44 | 10.48 | L1 |
| 0.177 | 28.66 | 54.63 | 25.96 | 18.17 | 56.99 | 64.63 | 7.64 | 46.50 | 10.49 | L1 |
| 0.191 | 26.08 | 54.01 | 27.93 | 15.59 | 56.03 | 64.01 | 7.98 | 45.54 | 10.49 | L1 |
| 0.213 | 25.89 | 53.09 | 27.20 | 15.40 | 54.65 | 63.09 | 8.44 | 44.15 | 10.49 | L1 |
| 0.222 | 24.11 | 52.74 | 28.63 | 13.61 | 54.18 | 62.74 | 8.57 | 43.68 | 10.50 | L1 |

Note:
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Level = Raw Lvl [dBµV] + Correction (LISN factor[dB] + Cable loss[dB]).
3. Margin=Limit - Level

| Final Test mode: | Mode 6 | | |
|---|---|---|---|
| Test Voltage: | AC 120V / 60Hz | Phase: | Neutral |




| Frequency [MHz] | CAV Level [dBµV] | CAV: AVG Limit [dBµV] | CAV Margin [dB] | CAV Raw Lvl [dBµV] | QPK Level [dBµV] | QPK Limit [dBµV] | QPK Margin [dB] | QPK Raw Lvl [dBµV] | Correction [dB] | Line |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.150 | 28.07 | 56.00 | 27.93 | 17.64 | 57.86 | 66.00 | 8.14 | 47.43 | 10.43 | N |
| 0.164 | 28.61 | 55.28 | 26.67 | 18.19 | 57.00 | 65.28 | 8.29 | 46.58 | 10.42 | N |
| 0.177 | 25.83 | 54.63 | 28.80 | 15.41 | 55.89 | 64.63 | 8.74 | 45.47 | 10.42 | N |
| 0.200 | 25.70 | 53.63 | 27.93 | 15.30 | 55.82 | 63.63 | 7.81 | 45.42 | 10.40 | N |
| 0.213 | 25.68 | 53.09 | 27.41 | 15.27 | 55.14 | 63.09 | 7.95 | 44.74 | 10.40 | N |
| 0.227 | 25.75 | 52.58 | 26.83 | 15.34 | 54.35 | 62.58 | 8.23 | 43.94 | 10.40 | N |

Note:
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Level = Raw Lvl [dBµV] + Correction (LISN factor[dB] + Cable loss[dB]).
3. Margin=Limit - Level

## 4.2 Radiated Emissions

**Limits**

| Frequency | Field strength (μV/m) | Limit (dBμV/m) | Remark | Measurement distance (m) |
|---|---|---|---|---|
| 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 |
| 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 |
| 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 |
| 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 |
| Above 1GHz | 500 | 74.0 | Peak | 3 |
| | | 54.0 | Average | |

**Test Procedure**

ANSI C63.4:2014

**Test Settings**

1. For radiated emissions measurements performed at frequencies less than or equal to 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the reference ground plane.
2. For radiated emissions measurements performed at frequencies above 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the ground plane.
3. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1m to 4m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e, field strength or received power), when orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25cm.
4. For each suspected emission, the EUT was ranged to its worst case and then tune the antenna tower(from 1~4m) and turntable(from 0~360°) to find the maximum reading. Preamplifier and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include0rotation of the EUT through three orthogonal axes (X/YIZ Plane) to determine the orientation(attitude) that maximizes the emissions.
6. For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for Quasi-peak detection measurements in the 30~1000MHz range.
7. For measurements above 1GHz the resolution bandwidth is set to 1MHz and the video resolution is set to 3MHz, the peak emission measurement will be measured by the peak detector, the average emission measurement will be measured by the average detector.
8. The field strength is calculated by adding the Antenna Factor, Cable Factor. The basic equation with a sample calculation is as follows:

   Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

   AF = Antenna Factor(dB/m)

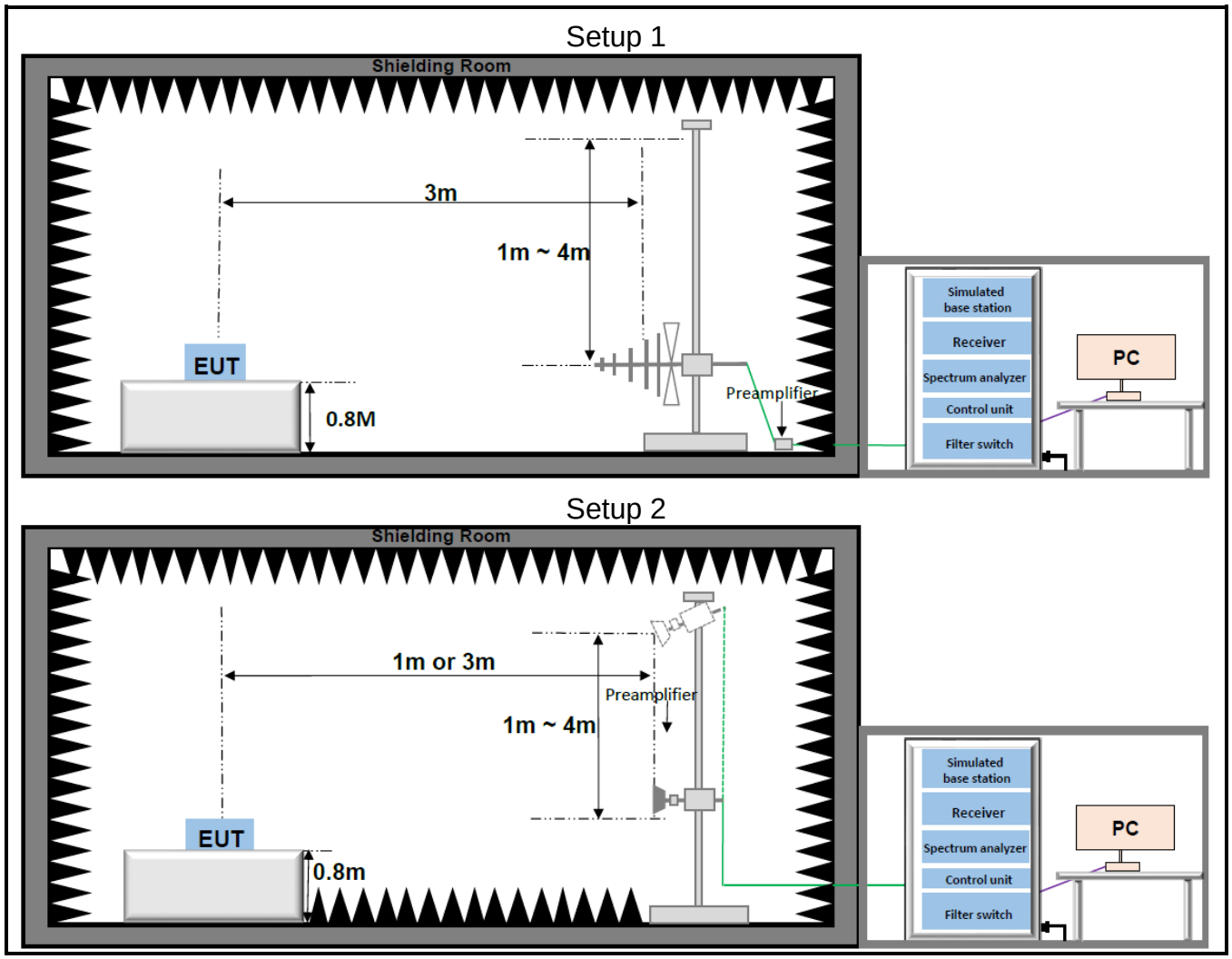
   Factor = Cable Factor(dB) - Preamplifier gain(dB)

   Margin = Limit(dBμV/m) – Level(dBμV/m)
9. Repeat above procedures until all frequencies measured was complete.
10. Measure and record the results in the test report.

**Test notes**

1. Radiated emissions were measured from 30MHz - 40GHz to ensure that the provisions of 15.33(b)(1) are satisfied with respect to the upper frequency scanning range. No Spurious emissions were detected within 20dB of the limit above 18GHz.
2. The "/" shown in the following Test Result tables are used to denote a noise floor measurement.

**Test Setup**

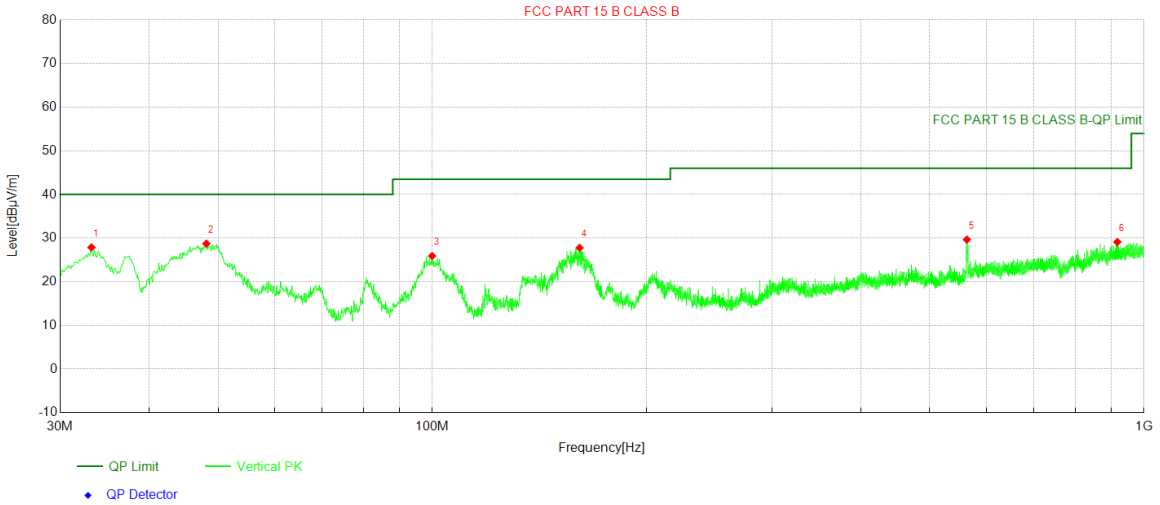



**Measuring Instruments**

The measuring equipment is listed in the section 3.1 of this test report.

**Test Result:**

| Test Frequency | Below 1000MHz | Final Test mode: | Mode3 |
|---|---|---|---|
| Test Voltage: | AC 120V / 60Hz | Polarization: | Vertical |




| NO. | Freq. [MHz] | Reading [dBuV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Trace | Polarity | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 33.201 | 53.25 | -25.37 | 27.88 | 40.00 | 12.12 | 143 | 191 | PK | Vertical | PASS |
| 2 | 48.139 | 52.21 | -23.47 | 28.74 | 40.00 | 11.26 | 172 | 176 | PK | Vertical | PASS |
| 3 | 99.937 | 50.30 | -24.38 | 25.92 | 43.50 | 17.58 | 204 | 338 | PK | Vertical | PASS |
| 4 | 161.047 | 53.94 | -26.16 | 27.78 | 43.50 | 15.72 | 277 | 117 | PK | Vertical | PASS |
| 5 | 563.888 | 43.74 | -14.08 | 29.66 | 46.00 | 16.34 | 268 | 49 | PK | Vertical | PASS |
| 6 | 917.259 | 37.76 | -8.65 | 29.11 | 46.00 | 16.89 | 216 | 101 | PK | Vertical | PASS |

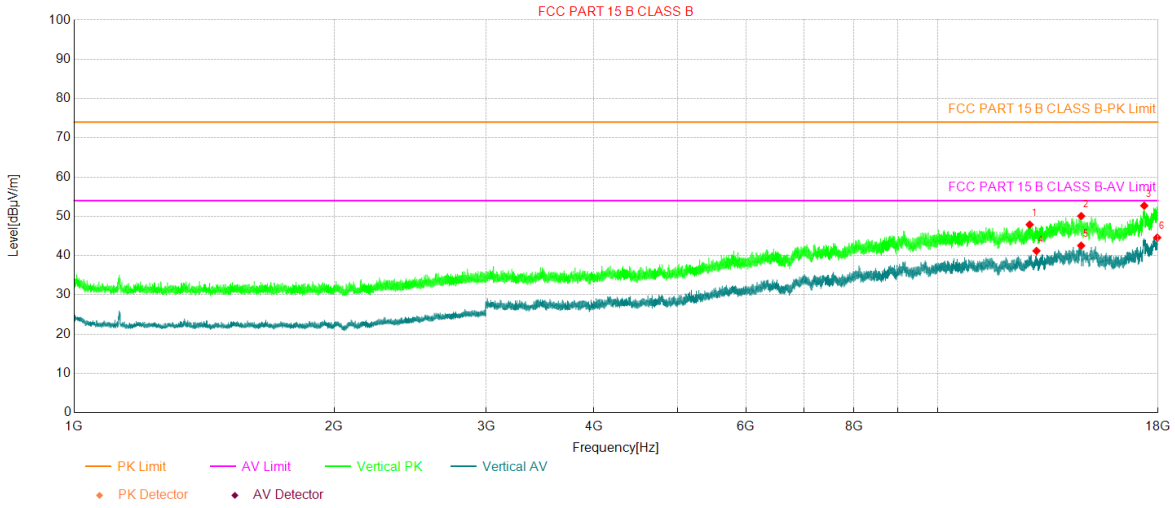
Note:
1. The Peak measurements were performed on the EUT.
2. Level = Reading(dBµV) + Factor(dB):
3. Factor = Cable Factor(dB) + AF(dB/m) - Preamplifier gain(dB)
4. AF = Antenna Factor(dB/m)
5. Margin = Limit(dBµV/m) - Value(dBµV/m)

| Test Frequency | Below 1000MHz | Final Test mode: | Mode3 |
|---|---|---|---|
| Test Voltage: | AC 120V / 60Hz | Polarization: | Horizontal |


| NO | Freq. [MHz] | Reading [dBuV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Trace | Polarity | Verdic |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 99.646 | 53.47 | -23.98 | 29.49 | 43.50 | 14.01 | 240 | 107 | PK | Horizontal | PASS |
| 2 | 167.74 | 54.29 | -25.92 | 28.37 | 43.50 | 15.13 | 214 | 288 | PK | Horizontal | PASS |
| 3 | 275.313 | 42.40 | -21.07 | 21.33 | 46.00 | 24.67 | 141 | 257 | PK | Horizontal | PASS |
| 4 | 423.82 | 40.29 | -17.62 | 22.67 | 46.00 | 23.33 | 232 | 160 | PK | Horizontal | PASS |
| 5 | 563.694 | 41.85 | -14.17 | 27.68 | 46.00 | 18.32 | 198 | 111 | PK | Horizontal | PASS |
| 6 | 991.464 | 37.54 | -7.84 | 29.70 | 54.00 | 24.30 | 255 | 232 | PK | Horizontal | PASS |

Note:
1. The Peak measurements were performed on the EUT.
2. Level = Reading(dBµV) + Factor(dB):
3. Factor = Cable Factor(dB) + AF(dB/m) - Preamplifier gain(dB)
4. AF = Antenna Factor(dB/m)
5. Margin = Limit(dBµV/m) - Value(dBµV/m)

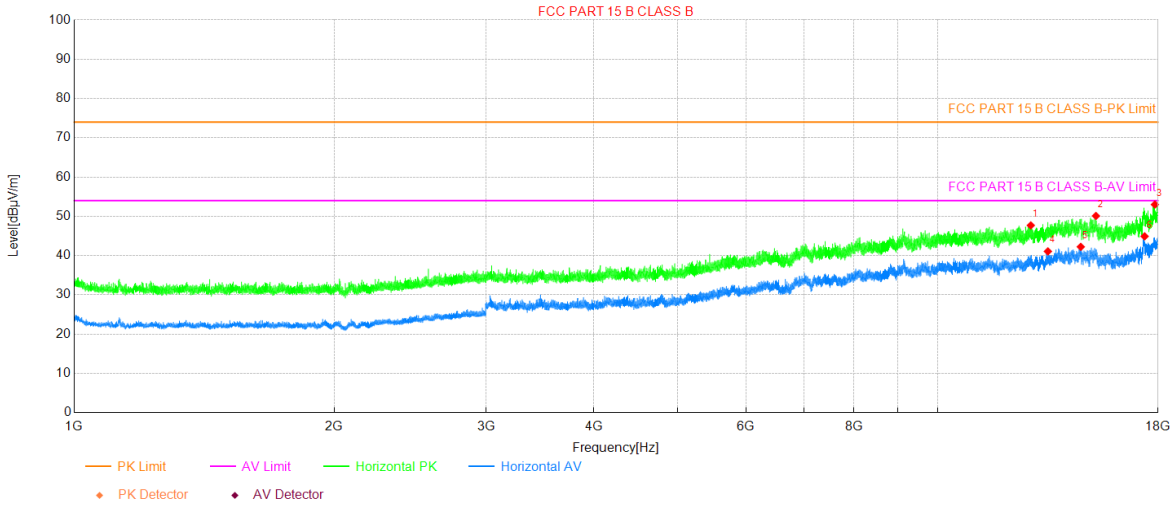
| Test Frequency | Above 1000MHz | Final Test mode: | Mode3 |
|---|---|---|---|
| Test Voltage: | AC 120V / 60Hz | Polarization: | Vertical |




| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 12783 | 42.02 | 5.87 | 47.89 | 74.00 | 26.11 | / | / | Vertical |
| 2 | 14665.5 | 40.58 | 9.49 | 50.07 | 74.00 | 23.93 | / | / | Vertical |
| 3 | 17350.5 | 39.86 | 12.84 | 52.70 | 74.00 | 21.30 | / | / | Vertical |
| 4 | 13016.5 | 35.18 | 6.01 | 41.19 | 54.00 | 12.81 | / | / | Vertical |
| 5 | 14664 | 33.01 | 9.53 | 42.54 | 54.00 | 11.46 | / | / | Vertical |
| 6 | 17962 | 31.63 | 12.94 | 44.57 | 54.00 | 9.43 | / | / | Vertical |

Note:
1. The Peak measurements were performed on the EUT.
2. Level = Reading(dBμV) + Factor(dB):
3. Factor = Cable Factor(dB) + AF(dB/m) - Preamplifier gain(dB)
4. AF = Antenna Factor(dB/m)
5. Margin = Limit(dBμV/m) - Value(dBμV/m)

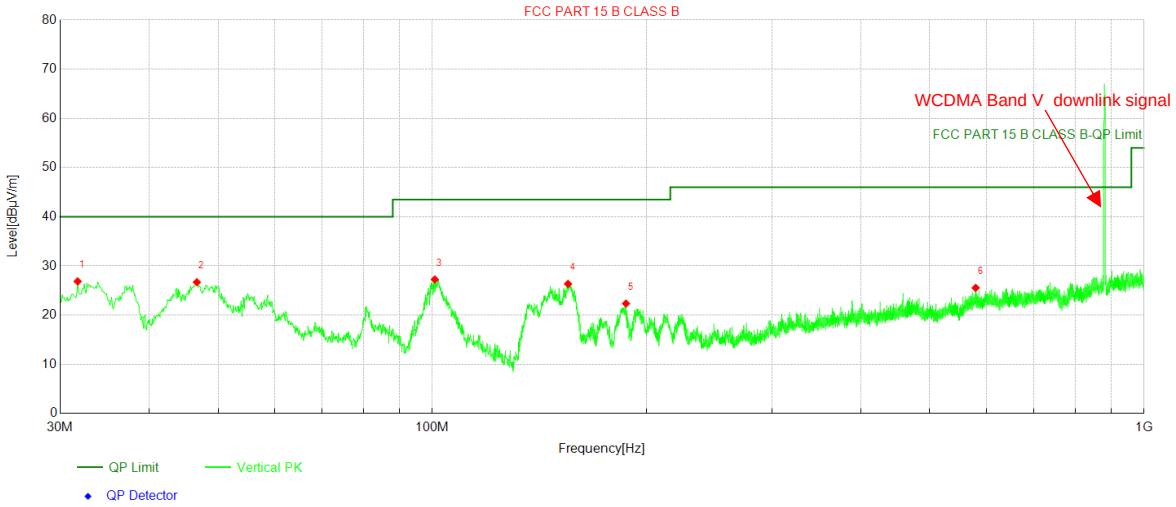
| Test Frequency | Above 1000MHz | Final Test mode: | Mode3 |
|---|---|---|---|
| Test Voltage: | AC 120V / 60Hz | Polarization: | Horizontal |




| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 12820.5 | 41.79 | 5.90 | 47.69 | 74.00 | 26.31 | / | / | Horizontal |
| 2 | 15254 | 40.81 | 9.29 | 50.10 | 74.00 | 23.90 | / | / | Horizontal |
| 3 | 17848.5 | 39.60 | 13.40 | 53.00 | 74.00 | 21.00 | / | / | Horizontal |
| 4 | 13418 | 34.03 | 7.04 | 41.07 | 54.00 | 12.93 | / | / | Horizontal |
| 5 | 14648.5 | 32.35 | 9.88 | 42.23 | 54.00 | 11.77 | / | / | Horizontal |
| 6 | 17366 | 32.66 | 12.24 | 44.90 | 54.00 | 9.10 | / | / | Horizontal |

Note:
1. The Peak measurements were performed on the EUT.
2. Level = Reading(dBµV) + Factor(dB):
3. Factor = Cable Factor(dB) + AF(dB/m) - Preamplifier gain(dB)
4. AF = Antenna Factor(dB/m)
5. Margin = Limit(dBµV/m) - Value(dBµV/m)

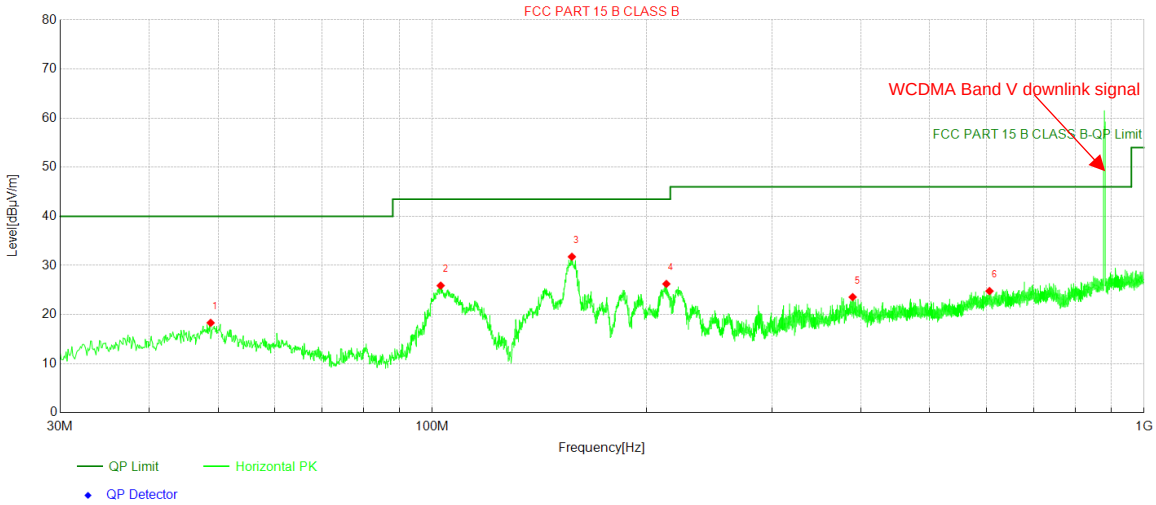
| Test Frequency | Below 1000MHz | Final Test mode: | Mode6 |
|---|---|---|---|
| Test Voltage: | AC 120V / 60Hz | Polarization: | Vertical |




| NO. | Freq. [MHz] | Reading [dBuV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Trace | Polarity | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 31.746 | 52.58 | -25.72 | 26.86 | 40.00 | 13.14 | 203 | 62 | PK | Vertical | PASS |
| 2 | 46.684 | 49.99 | -23.29 | 26.70 | 40.00 | 13.30 | 247 | 179 | PK | Vertical | PASS |
| 3 | 100.81 | 51.82 | -24.57 | 27.25 | 43.50 | 16.25 | 266 | 358 | PK | Vertical | PASS |
| 4 | 155.13 | 52.44 | -26.09 | 26.35 | 43.50 | 17.15 | 158 | 130 | PK | Vertical | PASS |
| 5 | 187.14 | 47.03 | -24.67 | 22.36 | 43.50 | 21.14 | 216 | 141 | PK | Vertical | PASS |
| 6 | 579.99 | 38.35 | -12.81 | 25.54 | 46.00 | 20.46 | 241 | 121 | PK | Vertical | PASS |

Note:
1. The Peak measurements were performed on the EUT.
2. Level = Reading(dBµV) + Factor(dB):
3. Factor = Cable Factor(dB) + AF(dB/m) - Preamplifier gain(dB)
4. AF = Antenna Factor(dB/m)
5. Margin = Limit(dBµV/m) - Value(dBµV/m)

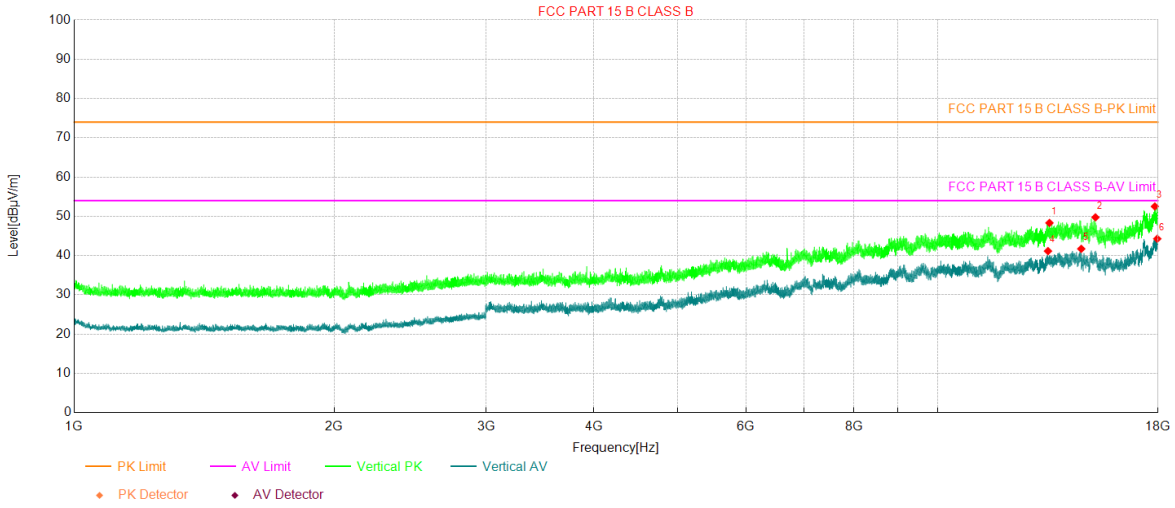
| Test Frequency | Below 1000MHz | Final Test mode: | Mode6 |
|---|---|---|---|
| Test Voltage: | AC 120V / 60Hz | Polarization: | Horizontal |




| NO | Freq. [MHz] | Reading [dBuV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Trace | Polarity | Verdic |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 48.818 | 41.47 | -23.17 | 18.30 | 40.00 | 21.70 | 253 | 233 | PK | Horizontal | PASS |
| 2 | 102.75 | 49.89 | -24.01 | 25.88 | 43.50 | 17.62 | 173 | 91 | PK | Horizontal | PASS |
| 3 | 157.07 | 58.16 | -26.40 | 31.76 | 43.50 | 11.74 | 264 | 293 | PK | Horizontal | PASS |
| 4 | 213.233 | 50.29 | -24.06 | 26.23 | 43.50 | 17.27 | 181 | 273 | PK | Horizontal | PASS |
| 5 | 389.579 | 40.62 | -17.07 | 23.55 | 46.00 | 22.45 | 241 | 308 | PK | Horizontal | PASS |
| 6 | 606.568 | 37.62 | -12.85 | 24.77 | 46.00 | 21.23 | 279 | 224 | PK | Horizontal | PASS |

Note:
1. The Peak measurements were performed on the EUT.
2. Level = Reading(dBµV) + Factor(dB):
3. Factor = Cable Factor(dB) + AF(dB/m) - Preamplifier gain(dB)
4. AF = Antenna Factor(dB/m)
5. Margin = Limit(dBµV/m) - Value(dBµV/m)

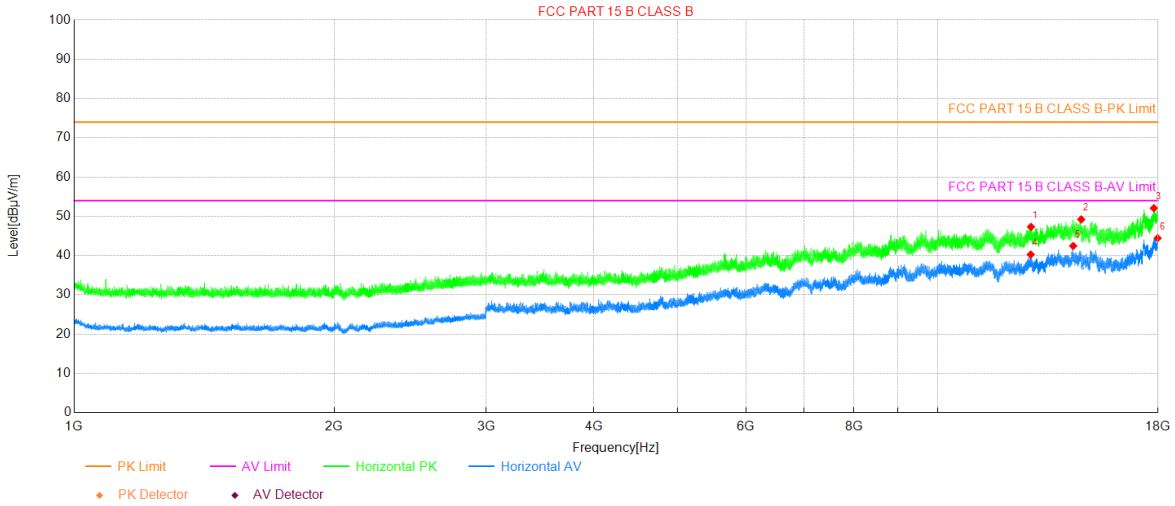
| Test Frequency | Above 1000MHz | Final Test mode: | Mode6 |
|---|---|---|---|
| Test Voltage: | AC 120V / 60Hz | Polarization: | Vertical |




| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 13475 | 41.43 | 6.89 | 48.32 | 74.00 | 25.68 | / | / | Vertical |
| 2 | 15233 | 40.79 | 8.95 | 49.74 | 74.00 | 24.26 | / | / | Vertical |
| 3 | 17847.5 | 39.13 | 13.39 | 52.52 | 74.00 | 21.48 | / | / | Vertical |
| 4 | 13423.5 | 34.13 | 7.02 | 41.15 | 54.00 | 12.85 | / | / | Vertical |
| 5 | 14667 | 32.27 | 9.45 | 41.72 | 54.00 | 12.28 | / | / | Vertical |
| 6 | 17964.5 | 31.30 | 12.98 | 44.28 | 54.00 | 9.72 | / | / | Vertical |

Note:
1. The Peak measurements were performed on the EUT.
2. Level = Reading(dBμV) + Factor(dB):
3. Factor = Cable Factor(dB) + AF(dB/m) - Preamplifier gain(dB)
4. AF = Antenna Factor(dB/m)
5. Margin = Limit(dBμV/m) - Value(dBμV/m)

| Test Frequency | Above 1000MHz | Final Test mode: | Mode6 |
|---|---|---|---|
| Test Voltage: | AC 120V / 60Hz | Polarization: | Horizontal |




| NO. | Freq. [MHz] | Reading [dBµV] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 12827.5 | 41.43 | 5.89 | 47.32 | 74.00 | 26.68 | / | / | Horizontal |
| 2 | 14664 | 39.68 | 9.53 | 49.21 | 74.00 | 24.79 | / | / | Horizontal |
| 3 | 17801.5 | 39.36 | 12.71 | 52.07 | 74.00 | 21.93 | / | / | Horizontal |
| 4 | 12819 | 34.36 | 5.91 | 40.27 | 54.00 | 13.73 | / | / | Horizontal |
| 5 | 14354.5 | 33.20 | 9.26 | 42.46 | 54.00 | 11.54 | / | / | Horizontal |
| 6 | 17980 | 31.25 | 13.18 | 44.43 | 54.00 | 9.57 | / | / | Horizontal |

Note:
1. The Peak measurements were performed on the EUT.
2. Level = Reading(dBµV) + Factor(dB):
3. Factor = Cable Factor(dB) + AF(dB/m) - Preamplifier gain(dB)
4. AF = Antenna Factor(dB/m)
5. Margin = Limit(dBµV/m) - Value(dBµV/m)

## 4.3 Test Setup Photos

The detailed test data see: **Test Setup Photos**

~The End~