



# SPOT CHECK EVALUATION

**FCC ID** : PY7-77310Z  
**Equipment** : GSM/WCDMA/LTE Phone with BT, DTS/UNII  
a/b/g/n/ac/ax, GPS, and NFC  
**Brand Name** : Sony  
**Applicant** : Sony Mobile Communications Inc.  
4-12-3 Higashi-Shinagawa, Shinagawa-ku,  
Tokyo, 140-0002, Japan  
**Manufacturer** : Sony Mobile Communications Inc.  
4-12-3 Higashi-Shinagawa, Shinagawa-ku,  
Tokyo, 140-0002, Japan  
**Standard** : FCC Part 15 Subpart C §15.247  
FCC Part 15 Subpart E §15.407

The product was received on Jul. 07, 2020 and testing was started from Jul. 25, 2020 and completed on Aug. 14, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this spot check data report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Approved by: Louis Wu

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

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## **1. Introduction Section**

Sony Mobile Communications Inc., hereby declares that the WLAN, Bluetooth and NFC hardware of PY7-77310Z (this model) are HW identical to PY7-08372L (lead). In addition, PY7-77310Z (this model) digital circuit is identical to PY7-08372L (lead). Therefore the following report of PY7-08372L (lead) may be used as reference test data for PY7-77310Z (this model), along with the spot check verification data following the FCC KDB 484596 D01 v01.

- WLAN
- Bluetooth



## **2. Difference Section**

Difference between PY7-08372L (lead) and PY7-77310Z (this model):

Sony Mobile Communications Inc., hereby declares the difference between PY7-08372L (lead) and PY7-77310Z (this model) are related only to the cellular and NFC part. Therefore the WLAN/Bluetooth report/data of PY7-08372L (lead) may represent for PY7-77310Z (this model).



### 3. Spot Check Verification Data Section

Conducted power test and radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing and the verification test results Similar to the original FCC ID. Detail spot check test result can be found in the variant model report, please refer to detail section table in section 4.

Summary of the spot check:

| Test Item  | Mode               | PY7-08372L Worst Result | PY7-77310Z Worst Result | Difference (dB) |
|--|--------------------|-------------------------|-------------------------|-----------------|
| <b>Average Conducted Power (dBm)</b>                   | BT                 | 14.91                   | 14.43                   | 0.48            |
|  | BLE                | 10.1                    | 8.9                     | 1.2             |
|  | WLAN 2.4G(MIMO)    | 18.43                   | 18.32                   | 0.11            |
|  | WLAN 5G B1-3(MIMO) | 14.46                   | 14.36                   | 0.1             |
|  | WLAN 5G B4 (MIMO)  | 14.46                   | 14.31                   | 0.15            |
| <b>WLAN</b>  |                    |                         |                         |                 |
| <b>Radiated Spurious Emission (Band Edge) (dBuV/m)</b> | BT                 | 62.96                   | 61.09                   | 1.87            |
|  | BLE                | 40.42                   | 40.51                   | -0.09           |
|  | WLAN 2.4G(MIMO)    | 42.33                   | 43.33                   | -1              |
|  | WLAN 5G B1-3(MIMO) | 41.19                   | 43.25                   | -2.06           |
|  | WLAN 5G B4 (MIMO)  | 54.51                   | 54.81                   | -0.3            |
| <b>Radiated Spurious Emission (Harmonic) (dBuV/m)</b>  | BT                 | 48.05                   | 45.09                   | 2.96            |
|  | BLE                | 43.56                   | 44.01                   | -0.45           |
|  | WLAN 2.4G(MIMO)    | 45.13                   | 45.36                   | -0.23           |
|  | WLAN 5G B1-3(MIMO) | 48.12                   | 48.05                   | 0.07            |
|  | WLAN 5G B4 (MIMO)  | 51.69                   | 50.99                   | 0.7             |
|  |                    |                         |                         |                 |



## 4. Reference detail Section

| Rule Part | Equipment Class | Wireless Technology      | Frequency Band (MHz)                             | Original FCC ID | Original Report                             | Variant Model FCC ID | Variant Model Report                        |
|-----------|-----------------|--------------------------|--|-----------------|---|----------------------|---|
| 15C       | DTS             | Bluetooth – LE<br>Wii-Fi | 2400~2483.5                                      | PY7-08372L      | Part 15C<br>(FR042242-02B,<br>FR042242-02C) | PY7-77310Z           | Part 15C<br>(FR042237-02B,<br>FR042237-02C) |
|           | DSS             | Bluetooth                | 2400~2483.5                                      | PY7-08372L      | Part 15C<br>(FR042242-02A)                  | PY7-77310Z           | Part 15C<br>(FR042237-02A)                  |
| 15E       | NII             | Wi-Fi                    | 5150~5250<br>5250~5350<br>5470~5725<br>5725~5850 | PY7-08372L      | Part 15E<br>(FR042242-02E,<br>FR042242-02F) | PY7-77310Z           | Part 15E<br>(FR042237-02E,<br>FR042237-02F) |

END of this report