



## **Appendix E. Spot Check Evaluation**

### **1. Introduction Section**

The original model (FCC ID: PY7-84773W) and the variant model (FCC ID: PY7-33681M) has identical PCB layout, antenna, SW implementation for Bluetooth/Wi-Fi/NFC/GPS. Based on their similarity, the FCC SAR (equipment class: DTS, DSS, NII) test data of PY7-33681M references the test data of PY7-84773W

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID: PY7-33681M).

### **2. Difference Section**

The original model (FCC ID: PY7-84773W) and the variant model (FCC ID: PY7-33681M) has identical PCB layout, antenna, SW implementation for Bluetooth/Wi-Fi/NFC/GPS. The details of similarity and difference can be found in the Operating Description.

Cellular transmitter RF components are different in PY7-33681M, to support capability for different cellular bands.

The product specification is outlined in the following table:

| FCC ID        |                                         |                                   | PY7-84773W                                                             | PY7-33681M |
|---------------|-----------------------------------------|-----------------------------------|------------------------------------------------------------------------|------------|
| Wireless Tech | Mode                                    |                                   | Frequency (MHz)                                                        |            |
| GSM           | GSM Voice<br>GPRS (GMSK)<br>EDGE (8PSK) | Multi-Slot<br>Class 12<br>DTM: No | 850/1900                                                               | 850/1900   |
| UMTS          | AMR/RCM12.2Kbps<br>HSDPA/HSUPA/DC-HSDPA |                                   | B5/B2                                                                  | B5/B2      |
| LTE (FDD)     | QPSK<br>16QAM                           |                                   | B5/B2/B7                                                               | B5/B7/B41  |
| Wi-Fi         | 11b/11g/11n(HT20)                       |                                   | 2412-2462                                                              |            |
|               | 11a/11n(HT20)/11n(HT40)                 |                                   | 5180-5240<br>5260-5320<br>5500-5720<br>5745-5825<br>*5600-5650 notched |            |
| Bluetooth     | V4.2 LE                                 |                                   | 2402-2480 MHz                                                          |            |
| NFC           | ASK                                     |                                   | 13.56 MHz                                                              |            |

### 3. Spot Check Verification Data Section

#### <Head SAR>

| Band        | Mode          | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Original Model (FCC ID : PY7-84773W ) |                     |              |                        |                        | Spot Check Model (FCC ID: PY7-33681M) |                     |              |                        |                        | Deviation |
|-------------|---------------|---------------|----------|-----|-------------|---------------------------------------|---------------------|--------------|------------------------|------------------------|---------------------------------------|---------------------|--------------|------------------------|------------------------|-----------|
|             |               |               |          |     |             | Average Power (dBm)                   | Tune-Up Limit (dBm) | Duty Cycle % | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Average Power (dBm)                   | Tune-Up Limit (dBm) | Duty Cycle % | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |           |
| WLAN 2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | 1   | 2412        | 16.36                                 | 16.50               | 100.00       | 1.24                   | 1.281                  | 16.49                                 | 16.50               | 100.00       | 1.100                  | 1.103                  | -13.9%    |
| WLAN 5GHz   | 802.11a 6Mbps | Left Cheek    | 0mm      | 52  | 5260        | 14.90                                 | 15.00               | 96.53        | 1.12                   | 1.186                  | 14.52                                 | 15.00               | 96.53        | 0.948                  | 1.097                  | -7.5%     |
| WLAN 5GHz   | 802.11a 6Mbps | Left Cheek    | 0mm      | 132 | 5660        | 14.85                                 | 15.00               | 96.53        | 0.771                  | 0.827                  | 14.85                                 | 15.00               | 96.53        | 0.743                  | 0.797                  | -3.6%     |
| WLAN 5GHz   | 802.11a 6Mbps | Left Cheek    | 0mm      | 149 | 5745        | 14.96                                 | 15.00               | 96.53        | 0.705                  | 0.737                  | 14.78                                 | 15.00               | 96.53        | 0.591                  | 0.644                  | -12.6%    |

#### <Hotspot SAR>

| Band        | Mode          | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Original Model (FCC ID : PY7-84773W ) |                     |              |                        |                        | Spot Check Model (FCC ID: PY7-33681M) |                     |              |                        |                        | Deviation |
|-------------|---------------|---------------|----------|-----|-------------|---------------------------------------|---------------------|--------------|------------------------|------------------------|---------------------------------------|---------------------|--------------|------------------------|------------------------|-----------|
|             |               |               |          |     |             | Average Power (dBm)                   | Tune-Up Limit (dBm) | Duty Cycle % | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Average Power (dBm)                   | Tune-Up Limit (dBm) | Duty Cycle % | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |           |
| WLAN 2.4GHz | 802.11b 1Mbps | Top Side      | 10mm     | 1   | 2412        | 16.36                                 | 16.50               | 100.00       | 0.394                  | 0.407                  | 16.49                                 | 16.50               | 100.00       | 0.345                  | 0.346                  | -15.0%    |

#### <Body-Worn SAR>

| Band        | Mode          | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Original Model (FCC ID : PY7-84773W ) |                     |              |                        |                        | Spot Check Model (FCC ID: PY7-33681M) |                     |              |                        |                        | Deviation |
|-------------|---------------|---------------|----------|-----|-------------|---------------------------------------|---------------------|--------------|------------------------|------------------------|---------------------------------------|---------------------|--------------|------------------------|------------------------|-----------|
|             |               |               |          |     |             | Average Power (dBm)                   | Tune-Up Limit (dBm) | Duty Cycle % | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Average Power (dBm)                   | Tune-Up Limit (dBm) | Duty Cycle % | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |           |
| WLAN 2.4GHz | 802.11b 1Mbps | Front         | 15mm     | 1   | 2412        | 16.36                                 | 16.50               | 100.00       | 0.178                  | 0.184                  | 16.49                                 | 16.50               | 100.00       | 0.155                  | 0.155                  | -15.8%    |
| WLAN 5GHz   | 802.11a 6Mbps | Front         | 15mm     | 52  | 5260        | 14.90                                 | 15.00               | 96.53        | 0.118                  | 0.125                  | 14.52                                 | 15.00               | 96.53        | 0.105                  | 0.121                  | -3.2%     |
| WLAN 5GHz   | 802.11a 6Mbps | Back          | 15mm     | 100 | 5500        | 14.95                                 | 15.00               | 96.53        | 0.269                  | 0.282                  | 14.93                                 | 15.00               | 96.53        | 0.221                  | 0.233                  | -17.4%    |
| WLAN 5GHz   | 802.11a 6Mbps | Back          | 15mm     | 149 | 5745        | 14.96                                 | 15.00               | 96.53        | 0.138                  | 0.144                  | 14.78                                 | 15.00               | 96.53        | 0.157                  | 0.171                  | 18.8%     |

**Note:** The spot check verification shows the WLAN SAR performance of PY7-84773W represents the performance of PY7-33681M

### 4. Reference detail Section

| Rule Part | Frequency Band (MHz)                             | Wireless Technology | Reference FCC ID | Reference Report Title | Reference Report No. | Reference Report Sections               |
|-----------|--------------------------------------------------|---------------------|------------------|------------------------|----------------------|-----------------------------------------|
| 15C       | 2400~2483.5                                      | Bluetooth           | PY7-84773W       | FCC SAR Test Report    | FA692208-01          | Sections related to Bluetooth test data |
| 15C       | 2400~2483.5                                      | Wi-Fi               | PY7-84773W       | FCC SAR Test Report    | FA692208-01          | Sections related to WiFi test data      |
| 15E       | 5150~5250<br>5250~5350<br>5470~5725<br>5725~5850 | Wi-Fi               | PY7-84773W       | FCC SAR Test Report    | FA692208-01          | Sections related to WiFi test data      |