



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

### **1. Introduction Section**

The original model (FCC ID: PY7-08618V) and the variant model (FCC ID: PY7-10720X) 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 PY7-10720X references the test data of PY7-08618V

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID: PY7-10720X).

### **2. Difference Section**

The original model (FCC ID: PY7-08618V) and the variant model (FCC ID: PY7-10720X) 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 PY7-10720X, to support capability for different cellular bands.

The product specification is outlined in the following table:

| <b>FCC ID</b>        |                                         |                                   | <b>PY7-08618V</b>                                                      | <b>PY7-10720X</b>   |
|----------------------|-----------------------------------------|-----------------------------------|------------------------------------------------------------------------|---------------------|
| <b>Wireless Tech</b> | <b>Mode</b>                             |                                   | <b>Frequency (MHz)</b>                                                 |                     |
| <b>GSM</b>           | GSM Voice<br>GPRS (GMSK)<br>EDGE (8PSK) | Multi-Slot<br>Class 12<br>DTM: No | 850/1900                                                               | 850/1900            |
| <b>UMTS</b>          | AMR/RCM12.2Kbps<br>HSDPA/HSUPA/DC-HSDPA |                                   | B5/B2                                                                  | B5/B4/B2            |
| <b>LTE (FDD)</b>     | QPSK<br>16QAM                           |                                   | B5/B2/B7                                                               | B12/B17/B5/B4/B2/B7 |
| <b>Wi-Fi</b>         | 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 |                     |
| <b>Bluetooth</b>     | V4.2 LE                                 |                                   | 2402-2480 MHz                                                          |                     |
| <b>NFC</b>           | 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: PY7-08618V) |                     |              |                        |                        | Spot Check Model (FCC ID: PY7-10720X) |                     |              |                        |                        | 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) |           |
| WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | 6   | 2437        | 16.78                               | 17.00               | 100          | 1.070                  | 1.126                  | 16.75                                 | 17.00               | 100          | 1.130                  | 1.197                  | 6.3%      |
| WLAN5GHz   | 802.11a 6Mbps | Left Cheek    | 0mm      | 52  | 5260        | 13.86                               | 14.00               | 97.2         | 0.532                  | 0.565                  | 13.80                                 | 14.00               | 97.2         | 0.469                  | 0.505                  | -10.6%    |
| WLAN5GHz   | 802.11a 6Mbps | Left Cheek    | 0mm      | 144 | 5720        | 13.92                               | 14.00               | 97.2         | 0.615                  | 0.645                  | 13.92                                 | 14.00               | 97.2         | 0.689                  | 0.722                  | 11.9%     |
| WLAN5GHz   | 802.11a 6Mbps | Left Cheek    | 0mm      | 165 | 5825        | 13.82                               | 14.00               | 97.2         | 0.802                  | 0.860                  | 13.60                                 | 14.00               | 97.2         | 0.847                  | 0.956                  | 11.2%     |

#### <Hotspot SAR>

| Band       | Mode          | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Original Model (FCC ID: PY7-08618V) |                     |              |                        |                        | Spot Check Model (FCC ID: PY7-10720X) |                     |              |                        |                        | 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) |           |
| WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | 6   | 2437        | 16.78                               | 17.00               | 100          | 0.238                  | 0.250                  | 16.75                                 | 17.00               | 100          | 0.196                  | 0.208                  | -16.8%    |
| WLAN5GHz   | 802.11a 6Mbps | Right Side    | 10mm     | 44  | 5220        | 13.79                               | 14.00               | 97.2         | 0.324                  | 0.350                  | 13.72                                 | 14.00               | 97.2         | 0.342                  | 0.375                  | 7.1%      |
| WLAN5GHz   | 802.11a 6Mbps | Right Side    | 10mm     | 149 | 5745        | 13.76                               | 14.00               | 97.2         | 0.436                  | 0.474                  | 13.55                                 | 14.00               | 97.2         | 0.476                  | 0.543                  | 14.6%     |

#### <Product Specific SAR>

| Band     | Mode          | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Original Model (FCC ID: PY7-08618V) |                     |              |                         |                         | Spot Check Model (FCC ID: PY7-10720X) |                     |              |                         |                         | Deviation |
|----------|---------------|---------------|----------|-----|-------------|-------------------------------------|---------------------|--------------|-------------------------|-------------------------|---------------------------------------|---------------------|--------------|-------------------------|-------------------------|-----------|
|          |               |               |          |     |             | Average Power (dBm)                 | Tune-Up Limit (dBm) | Duty Cycle % | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) | Average Power (dBm)                   | Tune-Up Limit (dBm) | Duty Cycle % | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |           |
| WLAN5GHz | 802.11a 6Mbps | Back          | 0mm      | 52  | 5260        | 13.86                               | 14.00               | 97.2         | 0.577                   | 0.613                   | 13.80                                 | 14.00               | 97.2         | 0.548                   | 0.590                   | -3.8%     |
| WLAN5GHz | 802.11a 6Mbps | Back          | 0mm      | 144 | 5720        | 13.92                               | 14.00               | 97.2         | 0.643                   | 0.674                   | 13.92                                 | 14.00               | 97.2         | 0.556                   | 0.583                   | -13.5%    |

#### <Body-Worn SAR>

| Band       | Mode          | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Original Model (FCC ID: PY7-08618V) |                     |              |                        |                        | Spot Check Model (FCC ID: PY7-10720X) |                     |              |                        |                        | 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) |           |
| WLAN2.4GHz | 802.11b 1Mbps | Back          | 15mm     | 11  | 2462        | 16.27                               | 17.00               | 100          | 0.091                  | 0.108                  | 16.20                                 | 17.00               | 100          | 0.078                  | 0.094                  | -13.0%    |
| WLAN5GHz   | 802.11a 6Mbps | Back          | 15mm     | 52  | 5260        | 13.86                               | 14.00               | 97.2         | 0.221                  | 0.235                  | 13.80                                 | 14.00               | 97.2         | 0.183                  | 0.197                  | -16.2%    |
| WLAN5GHz   | 802.11a 6Mbps | Back          | 15mm     | 144 | 5720        | 13.92                               | 14.00               | 97.2         | 0.132                  | 0.138                  | 13.92                                 | 14.00               | 97.2         | 0.116                  | 0.122                  | -11.6%    |
| WLAN5GHz   | 802.11a 6Mbps | Back          | 15mm     | 149 | 5745        | 13.76                               | 14.00               | 97.2         | 0.136                  | 0.148                  | 13.55                                 | 14.00               | 97.2         | 0.112                  | 0.128                  | -13.5%    |

**Note:** The spot check verification shows the WLAN SAR performance of PY7-08618V represents the performance of PY7-10720X.

### 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           | PY7-08618V       | FCC SAR Test Report    | FA6D2925             | Sections related to Bluetooth test data |
| 15C       | 2400~2483.5                                      | Wi-Fi               | PY7-08618V       | FCC SAR Test Report    | FA6D2925             | Sections related to WiFi test data      |
| 15E       | 5150~5250<br>5250~5350<br>5470~5725<br>5725~5850 | Wi-Fi               | PY7-08618V       | FCC SAR Test Report    | FA6D2925             | Sections related to WiFi test data      |