



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

### **1. Introduction Section**

The original model (FCC ID: PY7-19719M) and the variant model (FCC ID: PY7-75946T) 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 PY7-75946T references the test data of PY7-19719M.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID: PY7-75946T).

### **2. Difference Section**

The original model (FCC ID: PY7-19719M) and the variant model (FCC ID: PY7-75946T) 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 PY7-75946T, to support capability for different cellular bands.

The product specification is outlined in the following table:

| FCC ID        |                                         |                                   | PY7-19719M                                                             | PY7-75946T |
|---------------|-----------------------------------------|-----------------------------------|------------------------------------------------------------------------|------------|
| 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/B2/B7   |
| 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 : FCC ID: PY7-19719M ) |                     |              |                        |                        | Spot Check Model (FCC ID: PY7-75946T) |                     |              |                        |                        | 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        | 17.57                                         | 18.00               | 99.53        | 0.996                  | 1.105                  | 17.56                                 | 18.00               | 99.53        | 0.949                  | 1.055                  | -4.5%     |
| WLAN5GHz   | 802.11a 6Mbps | Left Cheek    | 0mm      | 52  | 5260        | 14.96                                         | 15.00               | 97.77        | 0.605                  | 0.625                  | 14.60                                 | 15.00               | 97.77        | 0.581                  | 0.652                  | 4.3%      |
| WLAN5GHz   | 802.11a 6Mbps | Left Cheek    | 0mm      | 116 | 5580        | 14.76                                         | 15.00               | 97.77        | 0.555                  | 0.600                  | 14.57                                 | 15.00               | 97.77        | 0.579                  | 0.654                  | 9.0%      |
| WLAN5GHz   | 802.11a 6Mbps | Right Cheek   | 0mm      | 149 | 5745        | 14.97                                         | 15.00               | 97.77        | 0.585                  | 0.603                  | 14.97                                 | 15.00               | 97.77        | 0.569                  | 0.586                  | -2.8%     |

#### <Hotspot SAR>

| Band       | Mode          | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Original Model (FCC ID : FCC ID: PY7-19719M ) |                     |              |                        |                        | Spot Check Model (FCC ID: PY7-75946T) |                     |              |                        |                        | 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        | 17.57                                         | 18.00               | 99.53        | 0.292                  | 0.324                  | 17.56                                 | 18.00               | 99.53        | 0.313                  | 0.348                  | 7.4%      |

#### <Product specific SAR>

| Band     | Mode          | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Original Model (FCC ID : FCC ID: PY7-19719M ) |                     |              |                         |                         | Spot Check Model (FCC ID: PY7-75946T) |                     |              |                         |                         | 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        | 14.96                                         | 15.00               | 97.77        | 0.952                   | 0.983                   | 14.60                                 | 15.00               | 97.77        | 0.920                   | 1.032                   | 5.0%      |
| WLAN5GHz | 802.11a 6Mbps | Back          | 0mm      | 100 | 5500        | 14.90                                         | 15.00               | 97.77        | 0.787                   | 0.824                   | 14.61                                 | 15.00               | 97.77        | 0.795                   | 0.890                   | 8.0%      |
| WLAN5GHz | 802.11a 6Mbps | Back          | 0mm      | 157 | 5785        | 14.95                                         | 15.00               | 97.77        | 0.862                   | 0.892                   | 14.89                                 | 15.00               | 97.77        | 0.890                   | 0.934                   | 4.7%      |

#### <Body-Worn SAR>

| Band       | Mode          | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Original Model (FCC ID : FCC ID: PY7-19719M ) |                     |              |                        |                        | Spot Check Model (FCC ID: PY7-75946T) |                     |              |                        |                        | 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     | 6   | 2437        | 17.57                                         | 18.00               | 99.53        | 0.102                  | 0.113                  | 17.56                                 | 18.00               | 99.53        | 0.109                  | 0.121                  | 7.1%      |
| WLAN5GHz   | 802.11a 6Mbps | Back          | 15mm     | 52  | 5260        | 14.96                                         | 15.00               | 97.77        | 0.241                  | 0.249                  | 14.60                                 | 15.00               | 97.77        | 0.206                  | 0.231                  | -7.2%     |
| WLAN5GHz   | 802.11a 6Mbps | Back          | 15mm     | 116 | 5580        | 14.76                                         | 15.00               | 97.77        | 0.198                  | 0.214                  | 14.57                                 | 15.00               | 97.77        | 0.165                  | 0.186                  | -13.1%    |
| WLAN5GHz   | 802.11a 6Mbps | Back          | 15mm     | 157 | 5785        | 14.95                                         | 15.00               | 97.77        | 0.125                  | 0.129                  | 14.89                                 | 15.00               | 97.77        | 0.124                  | 0.130                  | 0.8%      |

**Note:** The spot check verification shows the WLAN SAR performance of PY7-19719M represents the performance of PY7-75946T.

### 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           | PY7-19719M       | FCC SAR Test Report    | FA6N2202-01          | Sections related to Bluetooth test data |
| 15C       | 2400~2483.5                                      | Wi-Fi               | PY7-19719M       | FCC SAR Test Report    | FA6N2202-01          | Sections related to WiFi test data      |
| 15E       | 5150~5250<br>5250~5350<br>5470~5725<br>5725~5850 | Wi-Fi               | PY7-19719M       | FCC SAR Test Report    | FA6N2202-01          | Sections related to WiFi test data      |