

# Power Verification Test Report

**Report No.** : SA151221C02B  
**Applicant** : HTC Corporation  
**Address** : 1F, 6-3 Baoqiang Road, Xindian District, New Taipei City, Taiwan 231  
**Product** : Smartphone  
**FCC ID** : NM82PS6500  
**Brand** : HTC  
**Model No.** : 2PS6500  
**Standards** : FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1992 / IEEE Std 1528:2013  
KDB 865664 D01 v01r04 / KDB 865664 D02 v01r02  
KDB 248227 D01 v02r02 / KDB 447498 D01 v06 / KDB 648474 D04 v01r03  
KDB 941225 D01 v03r01 / KDB 941225 D05 v02r05 / KDB 941225 D05A v01r02  
KDB 941225 D06 v02r01  
**Sample Received Date** : Feb. 17, 2016  
**Date of Testing** : Mar. 11, 2016

**CERTIFICATION:** The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch – Lin Kou Laboratories**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

Prepared By :



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Approved By :



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# 1. Description of Equipment Under Test

|  |  |
|--|--|
| <b>EUT Type</b>  | Smartphone   |
| <b>FCC</b>   | NM82PS6500   |
| <b>Brand Name</b>                                      | HTC  |
| <b>Model Name</b>                                      | 2PS6500  |
| <b>Tx Frequency Bands<br/>(Unit: MHz)</b>              | <p>GSM850 : 824.2 ~ 848.8<br/> GSM1900 : 1850.2 ~ 1909.8<br/> WCDMA Band II : 1852.4 ~ 1907.6<br/> WCDMA Band IV : 1712.4 ~ 1752.6<br/> WCDMA Band V : 826.4 ~ 846.6<br/> CDMA BC0 : 824.7 ~ 848.31<br/> CDMA BC1 : 1851.25 ~ 1908.75<br/> LTE Band 2 : 1850.7 ~ 1909.3 (1.4M), 1851.5 ~ 1908.5 (3M), 1852.5 ~ 1907.5 (5M), 1855 ~ 1905 (10M), 1857.5 ~ 1902.5 (15M), 1860 ~ 1900 (20M)<br/> LTE Band 4 : 1710.7 ~ 1754.3 (1.4M), 1711.5 ~ 1753.5 (3M), 1712.5 ~ 1752.5 (5M), 1715 ~ 1750 (10M), 1717.5 ~ 1747.5 (15M), 1720 ~ 1745 (20M)<br/> LTE Band 5 : 824.7 ~ 848.3 (1.4M), 825.5 ~ 847.5 (3M), 826.5 ~ 846.5 (5M), 829 ~ 844 (10M)<br/> LTE Band 7 : 2502.5 ~ 2567.5 (5M), 2505 ~ 2565 (10M), 2507.5 ~ 2562.5 (15M), 2510 ~ 2560 (20M)<br/> LTE Band 12 : 699.7 ~ 715.3 (1.4M), 700.5 ~ 714.5 (3M), 701.5 ~ 713.5 (5M), 704 ~ 711 (10M)<br/> LTE Band 13 : 779.5 ~ 784.5 (5M), 782 (10M)<br/> LTE Band 17 : 706.5 ~ 713.5 (5M), 709 ~ 711 (10M)<br/> LTE Band 30 : 2307.5 ~ 2312.5 (5M), 2310 (10M)<br/> WLAN : 2412 ~ 2462, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5700, 5745 ~ 5825<br/> Bluetooth : 2403 ~ 2480<br/> ANT+ : 2402 ~ 2480<br/> NFC : 13.56</p> |
| <b>Uplink Modulations</b>                              | <p>GSM &amp; GPRS : GMSK<br/> EDGE : 8PSK<br/> WCDMA : QPSK<br/> CDMA : QPSK<br/> LTE : QPSK, 16QAM<br/> 802.11b : DSSS<br/> 802.11a/g/n/ac : OFDM<br/> Bluetooth : GFSK, <math>\pi/4</math>-DQPSK, 8-DPSK<br/> ANT+ : GFSK<br/> NFC : ASK</p>   |
| <b>Maximum Tune-up Conducted Power<br/>(Unit: dBm)</b> | <p>GSM850 : 33.5<br/> GSM1900 : 31.0<br/> WCDMA Band II : 24.5<br/> WCDMA Band IV : 24.5<br/> WCDMA Band V : 24.5<br/> CDMA BC0 : 24.5<br/> CDMA BC1 : 24.5<br/> LTE Band 2 : 24.5<br/> LTE Band 4 : 24.5<br/> LTE Band 5 : 24.5<br/> LTE Band 7 : 23.5<br/> LTE Band 12 : 24.0<br/> LTE Band 13 : 24.5<br/> LTE Band 17 : 24.0<br/> LTE Band 30 : 23.5<br/> WLAN 2.4G : 20.0<br/> WLAN 5.2G : 17.5<br/> WLAN 5.3G : 17.5<br/> WLAN 5.6G : 17.5<br/> WLAN 5.8G : 17.5<br/> Bluetooth : 10.5</p>  |

|              |                        |
|--------------|------------------------|
| Antenna Type | Fixed Internal Antenna |
| EUT Stage    | Production Unit        |

**Note:**

1. This report is issued as a supplementary report to BV ADT report no.: SA151221C02. The difference compared with original report is to verify the LTE CA power.
2. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

## 2. SAR Measurement Evaluation

### 2.1 EUT Configuration and Setting

#### LTE Downlink Carrier Aggregation (CA) Setup Configurations

LTE Carrier Aggregation (CA) was defined in 3GPP release 10 and higher. The LTE device in CA mode has one Primary Component Carrier (PCC) and one or more Secondary Component Carriers (SCC). PCC acts as the anchor carrier and can optionally cross-schedule data transmission on SCC. The RRC connection is only handled by one cell, the PCC for downlink and uplink communications. After making a data connection to the PCC, the LTE device adds the SCC on the downlink only. All uplink communications and acknowledgements remain identical to release 8 specifications on the PCC. The combinations of downlink carrier aggregation supported by this device are listed in below.

| EUT Supported Combinations of Downlink Carrier Aggregation                |           |           |            |            |           |           |           |
|---|-----------|-----------|------------|------------|-----------|-----------|-----------|
| <b>Intra-Band Contiguous CA Operating Bands</b>                           |           |           |            |            |           |           |           |
| CA_2  |           |           |            |            |           |           |           |
| <b>Inter-Band CA Operating Bands (Two Bands)</b>                          |           |           |            |            |           |           |           |
| CA_2-4  | CA_2-5    | CA_2-12   | CA_2-13    | CA_2-17    | CA_2-29   | CA_2-30   | CA_4-2    |
| CA_4-5  | CA_4-12   | CA_4-13   | CA_4-17    | CA_4-29    | CA_5-2    | CA_5-4    | CA_5-30   |
| CA_12-30  | CA_13-2   | CA_13-4   | CA_30-29   |            |           |           |           |
| <b>Inter-Band CA Operating Bands (Three Bands)</b>                        |           |           |            |            |           |           |           |
| CA_2-4-12   | CA_2-4-13 | CA_2-4-29 | CA_2-12-30 | CA_2-29-30 | CA_4-2-13 | CA_4-4-12 | CA_4-12-4 |
| CA_13-2-4   |           |           |            |            |           |           |           |
| <b>Intra-Band Non-Contiguous CA Operating Bands (with Two Sub-Blocks)</b> |           |           |            |            |           |           |           |
| CA_2-2  | CA_4-4    |           |            |            |           |           |           |

## 2.2 Maximum Output Power

### 2.2.1 Measured Conducted Power Result

The measuring conducted average power (Unit: dBm) is shown as below.

| Conducted Power Measurement for LTE-CA (Carrier Aggregation) |          |                |         |           |                                   |          |                  |                          |                            |
|--|----------|----------------|---------|-----------|-----------------------------------|----------|------------------|--------------------------|----------------------------|
| PCC (Primary Component Carrier)                              |          |                |         |           | SCC (Secondary Component Carrier) |          |                  | PCC Tx Power With Out CA | Tx Power With DL-CA Active |
| LTE Band   | BW (MHz) | Uplink Channel | RB Size | RB Offset | LTE Band                          | BW (MHz) | Downlink Channel |                          |                            |
| 2  | 20       | 18900          | 1       | 0         | 2                                 | 20       | 1098             | 23.83                    | 23.80                      |
| 2  | 20       | 18900          | 1       | 0         | 4                                 | 20       | 2175             | 23.83                    | 23.79                      |
| 2  | 20       | 18900          | 1       | 0         | 5                                 | 10       | 2525             | 23.83                    | 23.76                      |
| 2  | 20       | 18900          | 1       | 0         | 12                                | 10       | 5095             | 23.83                    | 23.80                      |
| 2  | 20       | 18900          | 1       | 0         | 13                                | 10       | 5230             | 23.83                    | 23.79                      |
| 2  | 10       | 18900          | 1       | 0         | 17                                | 10       | 5790             | 23.22                    | 23.21                      |
| 2  | 20       | 18900          | 1       | 0         | 29                                | 10       | 9715             | 23.83                    | 23.79                      |
| 2  | 20       | 18900          | 1       | 0         | 30                                | 10       | 9820             | 23.83                    | 23.78                      |
| 4  | 20       | 20300          | 1       | 0         | 2                                 | 20       | 900              | 23.84                    | 23.82                      |
| 4  | 20       | 20300          | 1       | 0         | 5                                 | 10       | 2525             | 23.84                    | 23.81                      |
| 4  | 20       | 20300          | 1       | 0         | 12                                | 10       | 5095             | 23.84                    | 23.81                      |
| 4  | 20       | 20300          | 1       | 0         | 13                                | 10       | 5230             | 23.84                    | 23.79                      |
| 4  | 10       | 20350          | 1       | 0         | 17                                | 10       | 5790             | 23.33                    | 23.31                      |
| 4  | 20       | 20300          | 1       | 0         | 29                                | 10       | 9715             | 23.84                    | 23.82                      |
| 5  | 10       | 20450          | 1       | 49        | 2                                 | 20       | 900              | 22.53                    | 22.53                      |
| 5  | 10       | 20450          | 1       | 49        | 4                                 | 20       | 2175             | 22.53                    | 22.53                      |
| 5  | 10       | 20450          | 1       | 49        | 30                                | 10       | 9820             | 22.88                    | 22.85                      |
| 12   | 10       | 23060          | 1       | 49        | 30                                | 10       | 9820             | 23.14                    | 23.13                      |
| 13   | 10       | 23230          | 1       | 24        | 2                                 | 20       | 900              | 22.81                    | 22.80                      |
| 13   | 10       | 23230          | 1       | 24        | 4                                 | 20       | 2175             | 22.81                    | 22.78                      |
| 30   | 10       | 27710          | 1       | 0         | 29                                | 10       | 9715             | 22.66                    | 22.66                      |
| 2  | 20       | 18900          | 1       | 0         | 2                                 | 20       | 1100             | 23.83                    | 23.50                      |
| 4  | 20       | 20300          | 1       | 0         | 4                                 | 20       | 2050             | 23.84                    | 23..80                     |

| Conducted Power Measurement for LTE-CA (Carrier Aggregation) |          |                |         |           |                                    |          |                  |                                    |          |                  |                          |                            |
|--|----------|----------------|---------|-----------|------------------------------------|----------|------------------|------------------------------------|----------|------------------|--------------------------|----------------------------|
| PCC (Primary Component Carrier)                              |          |                |         |           | SCC1 (Secondary Component Carrier) |          |                  | SCC2 (Secondary Component Carrier) |          |                  | PCC Tx Power With Out CA | Tx Power With DL-CA Active |
| LTE Band   | BW (MHz) | Uplink Channel | RB Size | RB Offset | LTE Band                           | BW (MHz) | Downlink Channel | LTE Band                           | BW (MHz) | Downlink Channel |                          |                            |
| 2  | 20       | 18900          | 1       | 0         | 4                                  | 20       | 2175             | 12                                 | 10       | 5095             | 23.83                    | 23.81                      |
| 2  | 20       | 18900          | 1       | 0         | 4                                  | 20       | 2175             | 13                                 | 10       | 5230             | 23.83                    | 23.82                      |
| 2  | 20       | 18900          | 1       | 0         | 4                                  | 20       | 2175             | 29                                 | 10       | 9715             | 23.83                    | 23.76                      |
| 2  | 20       | 18900          | 1       | 0         | 12                                 | 10       | 5095             | 30                                 | 10       | 9820             | 23.83                    | 23.82                      |
| 2  | 20       | 18900          | 1       | 0         | 29                                 | 10       | 9715             | 30                                 | 10       | 9820             | 23.83                    | 23.80                      |
| 4  | 20       | 20300          | 1       | 0         | 2                                  | 20       | 900              | 13                                 | 10       | 5230             | 23.84                    | 23.75                      |
| 4  | 20       | 20300          | 1       | 0         | 4                                  | 20       | 2050             | 12                                 | 10       | 5095             | 23.84                    | 23.76                      |
| 4  | 20       | 20300          | 1       | 0         | 12                                 | 10       | 5095             | 4                                  | 20       | 2050             | 23.90                    | 23.84                      |
| 13   | 10       | 23230          | 1       | 24        | 2                                  | 20       | 900              | 4                                  | 20       | 2050             | 22.81                    | 22.78                      |

**Note:**

1. The LTE-CA for this device is supported to downlink only, and there is no uplink carrier aggregation.
2. The PCC Tx power is measured with SCC downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active, uplink maximum output power remains within the specified tune-up tolerance limits and not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation inactive.
3. This device does not support all LTE-CA configurations. The LTE-CA power was measured for those combinations supported by this device.

### 3. Measurement Uncertainty

| Source of Uncertainty  | Tolerance<br>(± %) | Probability<br>Distribution | Divisor | Ci<br>(1g) | Ci<br>(10g) | Standard<br>Uncertainty<br>(± %, 1g) | Standard<br>Uncertainty<br>(± %, 10g) | Vi |
|--|--------------------|-----------------------------|---------|------------|-------------|--------------------------------------|---------------------------------------|----|
| <b>Measurement System</b>  |                    |                             |         |            |             |                                      |                                       |    |
| Probe Calibration  | 6.0                | Normal                      | 1       | 1          | 1           | 6.0                                  | 6.0                                   | ∞  |
| Axial Isotropy   | 4.7                | Rectangular                 | √3      | 0.707      | 0.707       | 1.9                                  | 1.9                                   | ∞  |
| Hemispherical Isotropy   | 9.6                | Rectangular                 | √3      | 0.707      | 0.707       | 3.9                                  | 3.9                                   | ∞  |
| Boundary Effect  | 1.0                | Rectangular                 | √3      | 1          | 1           | 0.6                                  | 0.6                                   | ∞  |
| Linearity  | 4.7                | Rectangular                 | √3      | 1          | 1           | 2.7                                  | 2.7                                   | ∞  |
| System Detection Limits  | 0.25               | Rectangular                 | √3      | 1          | 1           | 0.14                                 | 0.14                                  | ∞  |
| Readout Electronics  | 0.3                | Normal                      | 1       | 1          | 1           | 0.3                                  | 0.3                                   | ∞  |
| Response Time  | 0.0                | Rectangular                 | √3      | 1          | 1           | 0.0                                  | 0.0                                   | ∞  |
| Integration Time   | 1.7                | Rectangular                 | √3      | 1          | 1           | 1.0                                  | 1.0                                   | ∞  |
| RF Ambient Conditions - Noise  | 3.0                | Rectangular                 | √3      | 1          | 1           | 1.7                                  | 1.7                                   | ∞  |
| RF Ambient Conditions - Reflections  | 3.0                | Rectangular                 | √3      | 1          | 1           | 1.7                                  | 1.7                                   | ∞  |
| Probe Positioner Mechanical Tolerance  | 0.4                | Rectangular                 | √3      | 1          | 1           | 0.2                                  | 0.2                                   | ∞  |
| Probe Positioning with Respect to Phantom Shell                                  | 2.9                | Rectangular                 | √3      | 1          | 1           | 1.7                                  | 1.7                                   | ∞  |
| Extrapolation, interpolation, and integration algorithms for max. SAR evaluation | 2.0                | Rectangular                 | √3      | 1          | 1           | 1.2                                  | 1.2                                   | ∞  |
| <b>Test Sample Related</b>   |                    |                             |         |            |             |                                      |                                       |    |
| Test Sample Positioning  | 1.5 / 0.7          | Normal                      | 1       | 1          | 1           | 1.5                                  | 0.7                                   | 32 |
| Device Holder Uncertainty  | 4.2 / 1.8          | Normal                      | 1       | 1          | 1           | 4.2                                  | 1.8                                   | 32 |
| Output Power Variation - SAR Drift Measurement                                   | 5.0                | Rectangular                 | √3      | 1          | 1           | 2.9                                  | 2.9                                   | ∞  |
| <b>Phantom and Tissue Parameters</b>   |                    |                             |         |            |             |                                      |                                       |    |
| Phantom Uncertainty (Shape and Thickness Tolerances)                             | 7.2                | Rectangular                 | √3      | 1          | 1           | 4.2                                  | 4.2                                   | ∞  |
| Liquid Conductivity - Deviation from Target Values                               | 5.0                | Rectangular                 | √3      | 0.64       | 0.43        | 1.8                                  | 1.2                                   | ∞  |
| Liquid Conductivity - Measurement Uncertainty                                    | 1.0                | Normal                      | 1       | 0.64       | 0.43        | 0.6                                  | 0.4                                   | 25 |
| Liquid Permittivity - Deviation from Target Values                               | 5.0                | Rectangular                 | √3      | 0.60       | 0.49        | 1.7                                  | 1.4                                   | ∞  |
| Liquid Permittivity - Measurement Uncertainty                                    | 0.5                | Normal                      | 1       | 0.60       | 0.49        | 0.3                                  | 0.2                                   | 25 |
| <b>Combined Standard Uncertainty</b>   |                    |                             |         |            |             | ± 11.2 %                             | ± 10.4 %                              |    |
| <b>Expanded Uncertainty (K=2)</b>  |                    |                             |         |            |             | ± 22.4 %                             | ± 20.8 %                              |    |

Uncertainty budget for frequency range 300 MHz to 3 GHz



| Source of Uncertainty  | Tolerance<br>(± %) | Probability<br>Distribution | Divisor | Ci<br>(1g) | Ci<br>(10g) | Standard<br>Uncertainty<br>(± %, 1g) | Standard<br>Uncertainty<br>(± %, 10g) | Vi |
|--|--------------------|-----------------------------|---------|------------|-------------|--------------------------------------|---------------------------------------|----|
| <b>Measurement System</b>  |                    |                             |         |            |             |                                      |                                       |    |
| Probe Calibration  | 6.55               | Normal                      | 1       | 1          | 1           | 6.55                                 | 6.55                                  | ∞  |
| Axial Isotropy   | 4.7                | Rectangular                 | √3      | 0.707      | 0.707       | 1.9                                  | 1.9                                   | ∞  |
| Hemispherical Isotropy   | 9.6                | Rectangular                 | √3      | 0.707      | 0.707       | 3.9                                  | 3.9                                   | ∞  |
| Boundary Effect  | 2.0                | Rectangular                 | √3      | 1          | 1           | 1.2                                  | 1.2                                   | ∞  |
| Linearity  | 4.7                | Rectangular                 | √3      | 1          | 1           | 2.7                                  | 2.7                                   | ∞  |
| System Detection Limits  | 0.25               | Rectangular                 | √3      | 1          | 1           | 0.14                                 | 0.14                                  | ∞  |
| Readout Electronics  | 0.3                | Normal                      | 1       | 1          | 1           | 0.3                                  | 0.3                                   | ∞  |
| Response Time  | 0.0                | Rectangular                 | √3      | 1          | 1           | 0.0                                  | 0.0                                   | ∞  |
| Integration Time   | 1.7                | Rectangular                 | √3      | 1          | 1           | 1.0                                  | 1.0                                   | ∞  |
| RF Ambient Conditions - Noise  | 3.0                | Rectangular                 | √3      | 1          | 1           | 1.7                                  | 1.7                                   | ∞  |
| RF Ambient Conditions - Reflections  | 3.0                | Rectangular                 | √3      | 1          | 1           | 1.7                                  | 1.7                                   | ∞  |
| Probe Positioner Mechanical Tolerance  | 0.4                | Rectangular                 | √3      | 1          | 1           | 0.2                                  | 0.2                                   | ∞  |
| Probe Positioning with Respect to Phantom Shell                                  | 6.7                | Rectangular                 | √3      | 1          | 1           | 3.9                                  | 3.9                                   | ∞  |
| Extrapolation, interpolation, and integration algorithms for max. SAR evaluation | 4.0                | Rectangular                 | √3      | 1          | 1           | 2.3                                  | 2.3                                   | ∞  |
| <b>Test Sample Related</b>   |                    |                             |         |            |             |                                      |                                       |    |
| Test Sample Positioning  | 1.5 / 0.7          | Normal                      | 1       | 1          | 1           | 1.5                                  | 0.7                                   | 32 |
| Device Holder Uncertainty  | 4.2 / 1.8          | Normal                      | 1       | 1          | 1           | 4.2                                  | 1.8                                   | 32 |
| Output Power Variation - SAR Drift Measurement                                   | 5.0                | Rectangular                 | √3      | 1          | 1           | 2.9                                  | 2.9                                   | ∞  |
| <b>Phantom and Tissue Parameters</b>   |                    |                             |         |            |             |                                      |                                       |    |
| Phantom Uncertainty (Shape and Thickness Tolerances)                             | 7.6                | Rectangular                 | √3      | 1          | 1           | 4.4                                  | 4.4                                   | ∞  |
| Liquid Conductivity - Deviation from Target Values                               | 5.0                | Rectangular                 | √3      | 0.64       | 0.43        | 1.8                                  | 1.2                                   | ∞  |
| Liquid Conductivity - Measurement Uncertainty                                    | 1.0                | Normal                      | 1       | 0.64       | 0.43        | 0.6                                  | 0.4                                   | 25 |
| Liquid Permittivity - Deviation from Target Values                               | 5.0                | Rectangular                 | √3      | 0.60       | 0.49        | 1.7                                  | 1.4                                   | ∞  |
| Liquid Permittivity - Measurement Uncertainty                                    | 0.5                | Normal                      | 1       | 0.60       | 0.49        | 0.3                                  | 0.2                                   | 25 |
| <b>Combined Standard Uncertainty</b>   |                    |                             |         |            |             | ± 12.3 %                             | ± 11.5 %                              |    |
| <b>Expanded Uncertainty (K=2)</b>  |                    |                             |         |            |             | ± 24.6 %                             | ± 23.0 %                              |    |

**Uncertainty budget for frequency range 3 GHz to 6 GHz**

#### **4. Information on the Testing Laboratories**

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

**Taiwan HwaYa EMC/RF/Safety/Telecom Lab:**

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The road map of all our labs can be found in our web site also.

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