



## **Appendix F. FCC CDMA2000 SAR Measurement Procedures**

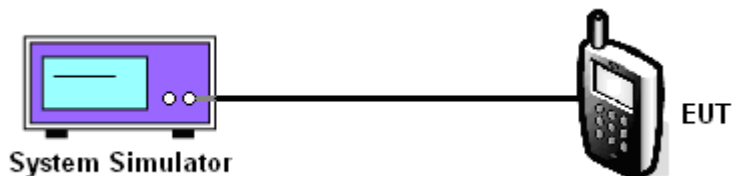
### **Conducted Output Power:**

The EUT was tested according to the requirements of the FCC 3G procedures and the 3.1.2.3.4.

A detailed analysis of the output power verification is provided as the table below:

| Function Type     | Reverse Traffic Channel | Test Mode | Radio Configuration           |                               | Service Option | Data Rates (kbps) | Power Control | Low Ch | Mid. Ch | High Ch |
|-------------------|-------------------------|-----------|-------------------------------|-------------------------------|----------------|-------------------|---------------|--------|---------|---------|
|                   |                         |           | Forward Traffic Channel (Fwd) | Reverse Traffic Channel (Rvs) |                |                   |               | 1013   | 384     | 777     |
| CDMA2000 Cellular | FCH                     | 1         | 1                             | 1                             | 55             | Full              | All Up        | 24.68  | 24.77   | 24.38   |
|                   |                         | 3         | 3                             | 3                             | 55             | Full              | All Up        | 24.77  | 24.86   | 24.51   |

## CDMA2000 Setup Configuration:



Setup Configuration

1. The EUT was connected to System Simulator, Agilent 8960. Refer to the drawing of Setup Configuration.
2. The RF path losses were compensated into the measurements.
3. A call was established between EUT and System Simulator with following setting:
  - a. For 1xRTT, set the Radio Configuration and the Service Option
  - b. For 1xEV-DO, set the Protocol Release and Data Rate
  - c. Set the Power Control to All Up Bits
4. The transmitted maximum output power was recorded.

| Call Setup Screen                 |                            |  |  |  |  |                          |               |  |  |
|-----------------------------------|----------------------------|--|--|--|--|--------------------------|---------------|--|--|
| Call Control                      | Active Cell Operating Mode |  |  |  |  |                          | Call Parm     |  |  |
| Close Menu                        | Mobile Station Information |  |  |  |  |                          | Cell Power    |  |  |
|                                   | ESN (Hex):                 |  |  |  |  |                          | -86.00        |  |  |
|                                   | ESN (Dec):                 |  |  |  |  |                          | dBm/1.23 MHz  |  |  |
|                                   | NCC:                       |  |  |  |  |                          | Cell Band     |  |  |
|                                   | NMC:                       |  |  |  |  |                          | US PCS        |  |  |
|                                   | NSIN:                      |  |  |  |  |                          | Channel       |  |  |
|                                   | Slot Class:                |  |  |  |  |                          | 1175          |  |  |
|                                   | Slot Cycle Index: ----     |  |  |  |  |                          | Protocol Rev  |  |  |
|                                   | Protocol Revision:         |  |  |  |  |                          | 6 (IS-2000-0) |  |  |
|                                   | FCH Service Option Setup   |  |  |  |  |                          | Value         |  |  |
| Service Option for Fud1, Rvs1     |                            |  |  |  |  | S055 (Loopback)          |               |  |  |
| Service Option for S01 (Voice)    |                            |  |  |  |  | S09 (Loopback)           |               |  |  |
| Service Option for S02 (Loopback) |                            |  |  |  |  | S055 (Loopback)          |               |  |  |
| Service Option for S03 (Voice)    |                            |  |  |  |  | S055 (Loopback)          |               |  |  |
| Service Option for S06 (SIS)      |                            |  |  |  |  | S055 (Loopback)          |               |  |  |
| S055 (Loopback)                   |                            |  |  |  |  | Radio Config             |               |  |  |
| S068 (Voice)                      |                            |  |  |  |  | (Fud1, Rvs1)             |               |  |  |
|                                   |                            |  |  |  |  | S055 (Loopback)          |               |  |  |
|                                   |                            |  |  |  |  | FCH Service Option Setup |               |  |  |
| Active Cell                       |                            |  |  |  |  | Sys Type: IS-2000        |               |  |  |
| Idle                              |                            |  |  |  |  |                          |               |  |  |
| IntRef Offset                     |                            |  |  |  |  | 1 of 4                   |               |  |  |

1xRTT setting for Radio Configuration 1 with Service Option 55

| Call Setup Screen                 |  |                            |  |                          |  |                          |  |               |  |
|-----------------------------------|--|----------------------------|--|--------------------------|--|--------------------------|--|---------------|--|
| Call Control                      |  | Active Cell Operating Mode |  |                          |  |                          |  | Call Params   |  |
|                                   |  | Mobile Station Information |  |                          |  |                          |  | Cell Power    |  |
|                                   |  | ESN (Hex):                 |  |                          |  |                          |  | -86.00        |  |
|                                   |  | ESN (Dec):                 |  |                          |  |                          |  | dBm/1.23 MHz  |  |
|                                   |  | NCC:                       |  |                          |  |                          |  | Cell Band     |  |
|                                   |  | NMC:                       |  |                          |  |                          |  | US PCS        |  |
|                                   |  | NSIN:                      |  |                          |  |                          |  | Channel       |  |
|                                   |  | Slot Class:                |  |                          |  |                          |  | 1175          |  |
|                                   |  | Slot Cycle Index: ----     |  |                          |  |                          |  | Protocol Rev  |  |
|                                   |  | Protocol Revision:         |  |                          |  |                          |  | 6 (IS-2000-0) |  |
|                                   |  | Close Menu                 |  | FCH Service Option Setup |  |                          |  | Value         |  |
| Service Option for Fud3, Rvs3     |  |                            |  | S055 (Loopback)          |  | S055 (Loopback)          |  |               |  |
| Service Option for S01 (Voice)    |  |                            |  | S09 (Loopback)           |  | Fud3, Rvs3               |  |               |  |
| Service Option for S02 (Loopback) |  |                            |  | S055 (Loopback)          |  | S055 (Loopback)          |  |               |  |
| Service Option for S03 (Voice)    |  |                            |  | S055 (Loopback)          |  | S055 (Loopback)          |  |               |  |
| Service Option for S06 (SIS)      |  |                            |  | S055 (Loopback)          |  | S055 (Loopback)          |  |               |  |
| S055 (Loopback)                   |  |                            |  |                          |  | FCH Service Option Setup |  |               |  |
| S032 (+ F-SCH)                    |  |                            |  |                          |  |                          |  |               |  |
|                                   |  |                            |  |                          |  |                          |  |               |  |
|                                   |  |                            |  |                          |  |                          |  |               |  |
|                                   |  | Active Cell                |  |                          |  | Sys Type: IS-2000        |  |               |  |
|                                   |  | Idle                       |  |                          |  |                          |  |               |  |
|                                   |  | IntRef Offset              |  |                          |  |                          |  | 1 of 4        |  |

1xRTT setting for Radio Configuration 3 with Service Option 55

### Reference:

- [1] SAR Measurement Procedures for 3G Devices CDMA 2000/Ev-Do/WCDMA/HSDPA, June 2006  
Laboratory Division Office of Engineering and Technology Federal Communications Commission
- [2] 3.1.2.3.4 Maximum RF Output Power 3GPP2 C.S0033-0 Version 2.0, Date: 12 December 2003  
Recommended Minimum Performance Standards for cdma2000 High Rate Packet Data Access Terminal