

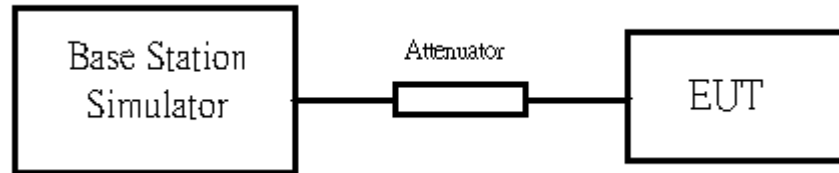


## **Appendix F - FCC 3G SAR Measurement Procedures**

### **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	Midd Ch	High Ch
			Forward Traffic Channel (Fwd)	Reverse Traffic Channel (Rvs)				1013	384	777
CDMA2000 Cellular	FCH	1	1	1	55	Full	All Up	19.55	19.77	19.25
		3	3	3	55	Full	All Up	19.27	19.86	19.14
	FCH+SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	19.24	20.04	19.07
	EVDO Rev.0*	Subtype:0				RTAP - 9.6	All Up	19.99	19.98	19.30
	EVDO Rev.0*	Subtype:0				RTAP - 38.4	All Up	19.67	19.87	19.39
	EVDO Rev.0*	Subtype:0				RTAP - 153.6	All Up	19.62	19.79	19.43
	EVDO Rev.A*	Subtype:0				RETAP - 128	All Up	19.48	19.92	19.32
	EVDO Rev.A*	Subtype:0				RETAP - 2048	All Up	19.67	19.89	19.46
	EVDO Rev.A*	Subtype:0				RETAP - 12288	All Up	19.87	19.94	19.56
	EVDO Rev.A*	Subtype:0				RETAP - 12288	All Up	19.87	19.94	19.56

**CDMA2000 Setup Configuration:**

**Setup Configuration**

1. The EUT was connected to Base Station, 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 Base Station with following setting:
  - a. Set the test mode1 and test mode 3.
  - b. Set the Power control All Up for (FCH) and (FCH+SCH).
4. The transmitted maximum output power was recorded.

Call Setup Screen									
Call Control	Active Cell Operating Mode							Call Parm's	
	<div>Mobile Station Information</div> <div>ESN (Hex):0x6C32D3AE</div> <div>ESN (Dec):108-03330990</div> <div>NCC:</div> <div>NMC:</div> <div>NSIN:3163712588</div> <div>Slot Class:Slotted</div> <div>Slot Cycle Index:2</div>							Cell Power	
								-86.00	
								dBm/1.23 MHz	
								Cell Band	
								US PCS	
								Channel	
								1175	
								Protocol Rev	
								6 (IS-2000)	
								Radio Config	
								(Fud1, Rvs1)	
								S055 (Loopback)	
								FCH Service Option Setup	
Close Menu									
<div>Background</div>		Active Cell Idle			Sys Type: IS-2000				
			IntRef	Offset				1 of 3	

**Test Mode 1 in Radio Configuration 1 (FCH)**

Call Setup Screen									
Call Control		Active Cell Operating Mode						Call Parms	
Operating Mode		<div>Mobile Station Information</div> <div> <div>ESN (Hex): 0x6C32D3AE</div> <div>ESN (Dec): 108-03330990</div> <div>MCC:</div> <div>MNC:</div> <div>MSIN: 3163712588</div> <div>Slot Class: Slotted</div> <div>Slot Cycle Index: 2</div> <div>Protocol Revision: 6 (IS-2000_Rev0)</div> <div>Band Class: US Cell, US PCS</div> <div>MS Operating</div> <div>Max EIRP (dBm): (Fud1, Rvs1)</div> <div>Registration: (Fud2, Rvs2)</div> <div>QPCH Support: (Fud3, Rvs3)</div> <div>Enhanced RC: (Fud4, Rvs3)</div> <div>Min Power Co: (Fud5, Rvs4)</div> <div>MS Called Pa</div> </div> <div>Radio Config</div>						Cell Power	
Active Cell								-86.00	
System Type								dBm/1.23 MHz	
IS-2000								Cell Band	
End Call								US PCS	
Paging INSI Setup		Channel						Protocol Rev	
Handoff Setup		1175						6 (IS-2000)	
		Radio Config						(Fud3, Rvs3)	
		S032 (+ SCH)						FCH Service Option Setup	
1 of 2		Background		Active Cell Connected + Data		Sys Type: IS-2000		1 of 3	
				IntRef Offset					

### Test Mode 3 in Radio Configuration 3 (Service Option32)

Call Setup Screen									
Call Control		Active Cell Operating Mode						Call Params	
Operating Mode		<div> <div>Access Terminal Information (AT Reported)</div> <div> Session Seed: 0x7722375A  Hardware ID Type (Hex): 0x010000 ESN  Hardware ID (Hex): 0x602D699F  Hardware ID (Decimal): 096-02976159 </div> </div> <div> <div>Access Terminal Information (AM Assigned)</div> <div> UATI 024: 2  UATI Color Code: 64  NAC Index: 5 </div> </div> <div> <div>Access Terminal Information (User Entered)</div> <div> AT Max Power: 23 dBm/1.23 MHz </div> </div> <div> <div>Application Configuration</div> <div> Session Application Type: Test Application  Test Application Protocol: RTAP  Limited TAP: Off  AT Directed Packets: 50 %  ACK Channel Bit Fixed Mode Attribute: On </div> </div>						Cell Power	
Active Cell								-60.00 dBm/1.23 MHz	
Start Data Connection		Cell Band							
		US PCS							
Close Session		Channel							
		675							
Handoff Setup		Application Config							
AT Max Power		FTAP Rate							
23 dBm/1.23 MHz		307.2 kbps (2 Slot, QPSK)							
		RTAP Rate							
		153.6 kbps							
<div> <div>Background</div> <div> <div>Active Cell</div> <div>Session Open</div> </div> <div> <div>Sys Type: IS-856</div> <div>Logging: No Conn.</div> </div> </div>									
1 of 3		1 of 3							

### 1xEV-DO setting with RTAP 153.6kbps

**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