

Appendix E. FCC 3G SAR Measurement Procedures

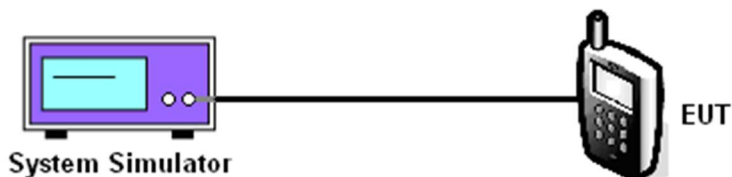
Conducted Output Power:

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	Mid. Ch	High Ch
			Forward Traffic	Reverse Traffic						
			Channel (Fwd)	Channel (Rvs)				1013	384	777
CDMA2000 BC0	EVDO Rev.0	Subtype:0/1				RTAP 153.6	All Up	24.03	24.08	23.98
	EVDO Rev.A	Subtype:2				RETAP 4096	All Up	24.02	24.07	23.98

Function Type	Reverse Traffic Channel	Test Mode	Radio Configuration		Service Option	Data Rates (kbps)	Power Control	Low Ch	Mid. Ch	High Ch
			Forward Traffic	Reverse Traffic						
			Channel (Fwd)	Channel (Rvs)				25	600	1175
CDMA2000 BC1	EVDO Rev.0	Subtype:0/1				RTAP 153.6	All Up	24.20	23.99	24.08
	EVDO Rev.A	Subtype:2				RETAP 4096	All Up	24.16	24.05	24.13

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 1xEV-DO, set the Protocol Release and Data Rate
 - b. 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	
Operating Mode		Access Terminal Information (AT Reported) Session Seed: Hardware ID Type (Hex): Hardware ID (Hex): Hardware ID (Decimal):						Rvs Power Ctrl	
Active Cell								Active bits	
Start Data Connection								Pur Ctrl Step	
Close Session								1.0 dB	
Handoff Setup		Access Terminal Information (AN Assigned) UATI 024: ---- UATI Color Code: ---- MAC Index: ----						Call Drop Timer	
AT Max Power		Protocol Release Session App: 0 (1xEV-DO) Test Applica: A (1xEV-DO-A) Limited TAP: B (1xEV-DO-B) AT Directed DRC Value Fi ACK Channel						On	
23 dBm/1.23MHz								Call Limit Mode	
1 of 3								Off	
								Protocol Rel	
		Active Cell Idle						0 (1xEV-DO)	
		Sys Type: IS-856							
		IntRef Offset PLSub0 RTAP						2 of 3	

1xEV-DO setting for Protocol Release (Rev.0 or Rev.A)

Call Setup Screen									
Call Control		Active Cell Operating Mode					Call Params		
Operating Mode		Access Terminal Information (AT Reported) Session Seed: Hardware ID Type (Hex): Hardware ID (Hex): Hardware ID (Decimal):					Cell Power		
Active Cell							-86.00		
							dBm/1.23 MHz		
							Cell Band		
		Access Terminal Information (AN Assigned) UATI 024: ---- UATI Color Code: ---- MAC Index: ----					US PCS		
Start Data Connection							Channel		
							1175		
Close Session		RTAP Rate Session App: 9.6 kbps Test Applica: 19.2 kbps Limited TAP: 38.4 kbps AT Directed: 76.8 kbps DRC Value Fi: 153.6 kbps ACK Channel:					Application Config		
							Application		
Handoff Setup							FTAP Rate		
							307.2 kbps		
AT Max Power							(2 Slot, QPSK)		
23 dBm/1.23MHz							RTAP Rate		
							9.6 kbps		
		Active Cell					Sys Type: IS-856		
		Idle							
1 of 3				IntRef	Offset		PLSub0	RTAP	1 of 3

1xEV-DO setting for RTAP data rate



Call Setup Screen									
Call Control		Active Cell Operating Mode					Call Params		
Operating Mode	Active Cell	Access Terminal Information (AT Reported)					Cell Power		
		Session Seed:					-86.00		
		Hardware ID Type (Hex):					dBm/1.23 MHz		
		Hardware ID (Hex):					Cell Band		
		Hardware ID (Decimal):					US PCS		
		Access Terminal Information (AN Assigned)					Channel		
	Start Data Connection	UATI 024: ----					1175		
		UATI Color Code: ----							
		MAC Index: ----							
	Close Session	Application Configuration					Application Config		
		Session App R-Data Packet Size Application					F-Traffic Format		
		Enhanced Te 128					4 (1024,2,128)		
		AT Directed 256					(307.2k, QPSK)		
		DRC Value Fi 512					R-Data Pkt Size		
	Handoff Setup	ACK Channel 768					128		
		Reverse Data 1024					bits		
	AT Max Power	Expected En 1536							
	23 dBm/1.23MHz								
		Active Cell		Sys Type: IS-856					
		Idle							
1 of 3		IntRef	Offset	PLSub0	RETAP	1 of 3			

1xEV-DO setting for RETAP data rate



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