

Appendix F - FCC 3G SAR Measurement Procedures

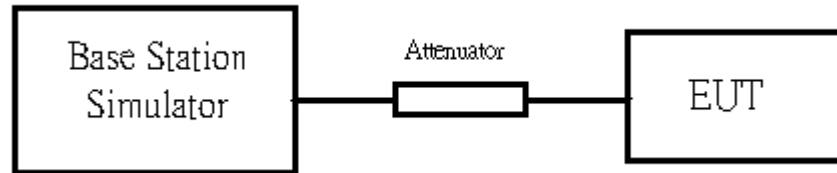
Conducted Output Power:

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	23.68	22.64	23.78
		3	3	3	55	Full	All Up	23.84	23.31	23.67
	FCH+SCH	3	3	3	32	Full	All Up	23.67	22.75	23.62
	EVDO Rev.0*	Subtype:0				RTAP - 9.6	All Up	23.30	23.35	23.87
	EVDO Rev.0*	Subtype:0				RTAP - 38.4	All Up	23.79	23.20	23.89
	EVDO Rev.0*	Subtype:0				RTAP - 153.6	All Up	23.80	23.36	23.88
	EVDO Rev.A*	Subtype:0				RETAP - 128	All Up	23.77	23.13	23.81
	EVDO Rev.A*	Subtype:0				RETAP - 2048	All Up	23.83	23.35	23.71
	EVDO Rev.A*	Subtype:0				RETAP - 12288	All Up	23.76	23.31	23.45

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)				25	600	1175
CDMA2000 PCS	FCH	1	1	1	55	Full	All Up	18.10	18.82	18.75
		3	3	3	55	Full	All Up	18.14	18.82	18.83
	FCH+SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	18.27	18.68	18.75
	EVDO Rev.0*	Subtype:0				RTAP - 9.6	All Up	18.39	18.65	18.58
	EVDO Rev.0*	Subtype:0				RTAP - 38.4	All Up	18.72	18.58	18.54
	EVDO Rev.0*	Subtype:0				RTAP - 153.6	All Up	18.52	18.79	18.76
	EVDO Rev.A*	Subtype:0				RETAP - 128	All Up	18.59	18.65	18.77
	EVDO Rev.A*	Subtype:0				RETAP - 2048	All Up	18.68	18.78	18.74
	EVDO Rev.A*	Subtype:0				RETAP - 12288	All Up	18.36	18.71	18.54

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 Params	
	Mobile Station Information ESN (Hex):0x6C32D3AE ESN (Dec):108-03330990 NCC: NMC: NSIN:3163712588 Slot Class:Slotted Slot Cycle Index:2						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		
	FCH Service Option Setup Service Option for Fud1, Rvs1S055 (Loopback) Service Option for Fud2, Rvs2S09 (Loopback) Service Option for Fud3, Rvs3S032 (+ SCH) Service Option for Fud4, Rvs3S055 (Loopback) Service Option for Fud5, Rvs4S055 (Loopback)								
	Close Menu								
		Background				Active Cell		Sys Type: IS-2000	
						Idle			
				IntRef	Offset				
								1 of 3	

Call Setup Screen			
Call Control	Active Cell Operating Mode		Call Params
Operating Mode	Mobile Station Information ESN (Hex): 0x6C32D3AE ESN (Dec): 108-03330990 MCC: MNC: MSIN: 3163712588 Slot Class: Slotted Slot Cycle Index: 2 Protocol Revision: 6 (IS-2000_Rev0) Band Class: US Cell US PCS MS Operating Mode: CDMA Max EIRP (dB) (Fud1, Rvs1): 7 Registration (Fud2, Rvs2) QPCH Support (Fud3, Rvs3) Enhanced RC (Fud4, Rvs3) Min Power Co (Fud5, Rvs4) MS Called Pa		Cell Power
Active Cell			-86.00
System Type			dBm/1.23 MHz
IS-2000			Cell Band
			US PCS
End Call			Channel
			1175
Paging INSI Setup			Protocol Rev
			6 (IS-2000)
Handoff Setup			Radio Config
	(Fud3, Rvs3)		
	S032 (+ SCH)		
	FCH Service Option Setup		
Background		Active Cell	Sys Type: IS-2000
		Connected + Data	
		IntRef	Offset
1 of 2			1 of 3

Test Mode 3 in Radio Configuration 3 (Service Option32)

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