



Appendix D. – CDMA2000 1xRTT Cellular and PCS Band Test Modes

Test Summary:

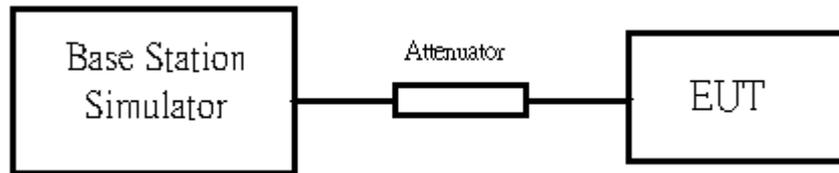
The EUT supports IS95 2G networks, CDMA 2000 1xRTT for Cellular and PCS band. The maximum output power is chosen for EMC and SAR testing for worst case scenario. A full EMC measurement in this report is done in CDMA2000 1xRTT mode with FCH RC1 mode for Cellular band, and CDMA2000 1x RTT mode with FCH RC3 mode for PCS band.

Based on all the uplink channels using the same modulation type, BPSK, and those maximum output power are very closer, above test modes could reflect compliance under all operational modes.

Maximum output power list:

Bands	Test Mode	Test Status	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
CDMA2000 Cellular	1xRTT	FCH_RC1	1013	824.70 (Low)	23.49	0.223
			384	836.52 (Mid)	23.75	0.237
			777	848.31 (High)	23.32	0.215
		FCH_RC3	1013	824.70 (Low)	23.56	0.227
			384	836.52 (Mid)	23.74	0.237
			777	848.31 (High)	23.33	0.215
		FCH+SCH_RC3	1013	824.70 (Low)	22.86	0.193
			384	836.52 (Mid)	23.11	0.205
			777	848.31 (High)	22.68	0.185
CDMA2000 PCS	1xRTT	FCH_RC1	25	1851.25 (Low)	23.32	0.215
			600	1880.00 (Mid)	22.89	0.195
			1177	1908.75 (High)	23.55	0.226
		FCH_RC3	25	1851.25 (Low)	23.44	0.221
			600	1880.00 (Mid)	22.91	0.195
			1177	1908.75 (High)	23.59	0.229
		FCH+SCH_RC1	25	1851.25 (Low)	22.66	0.185
			600	1880.00 (Mid)	22.19	0.166
			1177	1908.75 (High)	22.86	0.193

Setup Configuration



1. The EUT was connected to Base Station, Agilent 8960.
Refer to the drawing of Setup Configuration.
2. The RF path losses was compensated into the measurements.
3. A call was established between EUT and Base Station for each modes with following settings:
 - a. Set the Power control All Up for FCH_RC3 and FCH_RC1 with Service Option 55.
 - b. Set the Power control All Up for FCH+SCH with Service Option 32.
4. The transmitted maximum output power was recorded.

Test Mode 1 in Radio Configuration 1 (FCH_RC1)

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

Test Mode 1 in Radio Configuration 1 (FCH_RC1)



Test Mode 3 in Radio Configuration 3 (FCH+SCH)

Call Setup Screen			
Call Control	Active Cell Operating Mode	Call Params	
Operating Mode Active Cell	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: DPA Max EIRP (dB): (Fud1, Rvs1) 7 Registration: (Fud2, Rvs2) QPCH Support: (Fud3, Rvs3) Enhanced BC: (Fud4, Rvs3) Min Power Co: (Fud5, Rvs4) MS Called Pa	Cell Power -86.00 dBm/1.23 MHz	
System Type 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	
1 of 2		IntRef Offset	1 of 3

Test Mode 3 in Radio Configuration 3 (Service Option32)

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