



Appendix D - CDMA2000 1xRTT Test Modes for HAC

The phone was tested in all normal configurations for the ear usage. These test configurations are tested at the high, middle and low frequency channels of each applicable operating mode, if applicable, each configuration is tested with the antenna in its fully stowed and deployed positions. The signal was setup by linking an over the air connection between the EUT and an Agilent 8960 (E5515C Wireless Communications Tester). The CDMA radio is available on IS-95 (Radio Configuration 1) and CDMA 2000 1XRTT (Radio Configuration 3).

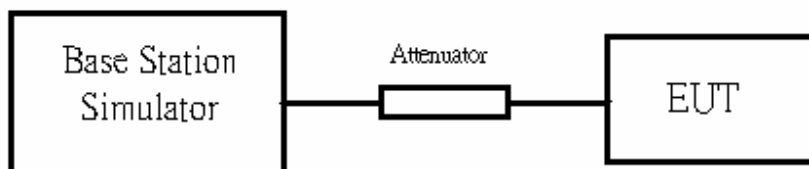
The EUT supports IS95 2G networks, CDMA 2000 1X RTT for Cellular band and PCS band. The maximum output power is chosen for HAC testing for worst case scenario. A full HAC measurement in this report is done in CDMA2000 1XRTT mode SO55 + RC1 for Cellular band and PCS band 1900.

Maximum output power list:

Bands	RC	SO	Type	Data Rate	Channel	Conducted Power (dBm)	Peak Field (V/m)
CDMA2000 Cellular 850	1	2	Loop	Full	384	24.65	92.1
				Eighth	384	24.57	90.6
	1	3	Voice	-	384	24.52	91.7
				-	384	24.52	91.7
	1	55	Loop	Full	384	24.67	92.4
				Eighth	384	24.59	90.9
	2	17	Voice	-	384	24.56	91.8
				-	384	24.56	91.8
	3	2	Loop	Full	384	24.52	91.3
				Eighth	384	24.54	91.5
	3	3	Voice	-	384	24.52	91.2
				-	384	24.52	91.2
CDMA2000 PCS 1900	1	2	Loop	Full	600	24.01	58.9
				Eighth	600	23.97	58.6
	1	3	Voice	-	600	23.99	58.7
				-	600	23.99	58.7
	1	55	Loop	Full	600	24.03	59.1
				Eighth	600	23.95	58.1
	2	17	Voice	-	600	24.01	58.8
				-	600	24.01	58.8
	3	2	Loop	Full	600	23.95	58.2
				Eighth	600	23.92	56.8
	3	3	Voice	-	600	23.94	57.9
				-	600	23.94	57.9
	3	55	Loop	Full	600	24.06	58.6
				Eighth	600	23.91	57.2



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 RC3 and RC1 ,2 (Voice) with Service Option 2.
 - b. Set the Power control All Up for RC3 and RC1 ,2 (Voice) with Service Option 55.
4. The transmitted maximum output power was recorded.

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
- [3.] May 9, 2006 Preliminary Guidance for Reviewing Applications for Certification of 3G Devices.
- [4.] Publication Number: 766989 Rule Parts: 90S Publication Date: 04/09/2007