



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

Test Summary:

The EUT supports IS95 2G networks, CDMA2000 1xRTT for Cellular band 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 RC3 SO55 for cellular band and CDMA2000 1xRTT mode with RC5 SO9 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: (MEID: 268435456102522605)

Cellular Band					
Radio Configuration	Service Options and Channel configurations	Supported?	CH1013	CH384	CH777
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RC1	SO1	X	-	-	-
RC1	SO2	V	24.21	24.09	24.23
RC1	SO3	V	24.02	23.92	24.24
RC1	SO6	X	-	-	-
RC1	SO55	V	24.27	24.14	24.25
RC2	SO9	V	24.30	24.09	24.23
RC2	SO14	X	-	-	-
RC2	SO17	V	24.02	23.96	24.22
RC2	SO55	V	24.29	24.15	24.21
RC3	SO1	X	-	-	-
RC3	SO2	V	24.26	24.11	24.14
RC3	SO3	X	-	-	-
RC3	SO6	X	-	-	-
RC3	SO32 (no SCH1)	X	-	-	-
RC3	SO32 (SCH1 9.6 kpbs)	X	-	-	-
RC3	SO32 (SCH1 19.2 kpbs)	X	-	-	-
RC3	SO32 (SCH1 38.4 kpbs)	X	-	-	-
RC3	SO32 (SCH1 76.8 kpbs)	X	-	-	-
RC3	SO32 (SCH1 153.6 kpbs)	X	-	-	-
RC3	SO33 (SCH1 9.6 kpbs)	X	-	-	-
RC3	SO33 (SCH1 19.2 kpbs)	X	-	-	-
RC3	SO33 (SCH1 38.4 kpbs)	X	-	-	-
RC3	SO33 (SCH1 76.8 kpbs)	X	-	-	-
RC3	SO33 (SCH1 153.6 kpbs)	X	-	-	-
RC3	SO55	V	24.31	24.18	24.15
RC4	SO1	X	-	-	-
RC4	SO2	V	24.29	24.15	24.18
RC4	SO3	X	-	-	-
RC4	SO6	X	-	-	-
RC4	SO32 (no SCH1)	X	-	-	-



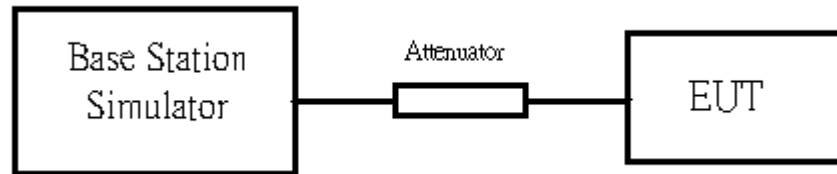
Cellular Band					
Radio Configuration	Service Options and Channel configurations	Supported?	CH1013	CH384	CH777
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RC4	SO32 (SCH1 9.6 kpbs)	X	-	-	-
RC4	SO32 (SCH1 19.2 kpbs)	X	-	-	-
RC4	SO32 (SCH1 38.4 kpbs)	X	-	-	-
RC4	SO32 (SCH1 76.8 kpbs)	X	-	-	-
RC4	SO32 (SCH1 153.6 kpbs)	X	-	-	-
RC4	SO33 (SCH1 9.6 kpbs)	X	-	-	-
RC4	SO33 (SCH1 19.2 kpbs)	X	-	-	-
RC4	SO33 (SCH1 38.4 kpbs)	X	-	-	-
RC4	SO33 (SCH1 76.8 kpbs)	X	-	-	-
RC4	SO33 (SCH1 153.6 kpbs)	X	-	-	-
RC4	SO55	V	24.29	24.14	24.16
RC5	SO9	V	24.30	24.18	24.18
RC5	SO14	X	-	-	-
RC5	SO17	X	-	-	-
RC5	SO33 (SCH1 9.6 kpbs)	X	-	-	-
RC5	SO33 (SCH1 19.2 kpbs)	X	-	-	-
RC5	SO33 (SCH1 38.4 kpbs)	X	-	-	-
RC5	SO33 (SCH1 76.8 kpbs)	X	-	-	-
RC5	SO33 (SCH1 153.6 kpbs)	X	-	-	-
RC5	SO55	V	24.29	24.19	24.15

PCS Band					
Radio Configuration	Service Options and Channel Configurations	Supported?	CH25	CH600	CH1175
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RC1	SO1	X	-	-	-
RC1	SO2	V	23.85	24.12	23.98
RC1	SO3	V	23.93	23.76	23.96
RC1	SO6	X	-	-	-
RC1	SO55	V	23.90	24.13	23.91
RC2	SO9	V	23.84	24.11	23.92
RC2	SO14	X	-	-	-
RC2	SO17	V	23.8	23.68	24.00
RC2	SO55	V	23.86	24.15	23.86
RC3	SO1	X	-	-	-
RC3	SO2	V	24.23	24.15	23.83
RC3	SO3	X	-	-	-
RC3	SO6	X	-	-	-
RC3	SO32 (no SCH1)	X	-	-	-
RC3	SO32 (SCH1 9.6 kpbs)	X	-	-	-
RC3	SO32 (SCH1 19.2 kpbs)	X	-	-	-
RC3	SO32 (SCH1 38.4 kpbs)	X	-	-	-
RC3	SO32 (SCH1 76.8 kpbs)	X	-	-	-
RC3	SO32 (SCH1 153.6 kpbs)	X	-	-	-
RC3	SO33 (SCH1 9.6 kpbs)	X	-	-	-



PCS Band					
Radio Configuration	Service Options and Channel Configurations	Supported?	CH25	CH600	CH1175
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RC3	SO33 (SCH1 19.2 kpbs)	X	-	-	-
RC3	SO33 (SCH1 38.4 kpbs)	X	-	-	-
RC3	SO33 (SCH1 76.8 kpbs)	X	-	-	-
RC3	SO33 (SCH1 153.6 kpbs)	X	-	-	-
RC3	SO55	V	24.02	24.20	23.83
RC4	SO1	X	-	-	-
RC4	SO2	V	23.96	24.19	23.92
RC4	SO3	X	-	-	-
RC4	SO6	X	-	-	-
RC4	SO32 (no SCH1)	X	-	-	-
RC4	SO32 (SCH1 9.6 kpbs)	X	-	-	-
RC4	SO32 (SCH1 19.2 kpbs)	X	-	-	-
RC4	SO32 (SCH1 38.4 kpbs)	X	-	-	-
RC4	SO32 (SCH1 76.8 kpbs)	X	-	-	-
RC4	SO32 (SCH1 153.6 kpbs)	X	-	-	-
RC4	SO33 (SCH1 9.6 kpbs)	X	-	-	-
RC4	SO33 (SCH1 19.2 kpbs)	X	-	-	-
RC4	SO33 (SCH1 38.4 kpbs)	X	-	-	-
RC4	SO33 (SCH1 76.8 kpbs)	X	-	-	-
RC4	SO33 (SCH1 153.6 kpbs)	X	-	-	-
RC4	SO55	V	23.94	24.23	23.95
RC5	SO9	V	23.94	24.24	23.83
RC5	SO14	X	-	-	-
RC5	SO17	X	-	-	-
RC5	SO33 (SCH1 9.6 kpbs)	X	-	-	-
RC5	SO33 (SCH1 19.2 kpbs)	X	-	-	-
RC5	SO33 (SCH1 38.4 kpbs)	X	-	-	-
RC5	SO33 (SCH1 76.8 kpbs)	X	-	-	-
RC5	SO33 (SCH1 153.6 kpbs)	X	-	-	-
RC5	SO55	V	23.90	24.14	23.93

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 Params		
	Mobile Station Information ESN (Hex): 0x6C32D3AE ESN (Dec): 108-03330990 MCC: MNC: MSIN: 3163712588 Slot Class: Slotted Slot Cycle Index: 2						Cell Power -86.00 dBm/1.23 MHz		
	FCH Service Option Setup						Cell Band US PCS		
	Value Service Option for Fud1, Rvs1 S055 (Loopback) Service Option for Fud2, Rvs2 S09 (Loopback) Service Option for Fud3, Rvs3 S032 (+ SCH) Service Option for Fud4, Rvs3 S055 (Loopback) Service Option for Fud5, Rvs4 S055 (Loopback)						Channel 1175		
							Protocol Rev 6 (IS-2000)		
							Radio Config (Fud1, Rvs1) S055 (Loopback)		
							FCH Service Option Setup		
Close Menu	Background		Active Cell Idle		Sys Type: IS-2000				
		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	Mobile Station Information ESN (Hex): 0x6C32D3AE ESN (Dec): 108-03330990 NCC: NMC: NSIN: 3163712588 Slot Class: Slotted Slot Cycle Index: 2 Protocol Revision: 6 (IS-2000_Rev0) Band Class: US CELL / US PCS NS Operating: DNA Max EIRP (dB (Fud1, Rvs1)) Registration (Fud2, Rvs2) QPCH Support (Fud3, Rvs3) Enhanced RC (Fud4, Rvs3) Min Power Co (Fud5, Rvs4) NS 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	
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)

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