



Appendix A. – CDMA2000 1xRTT Test Modes for AWS Band

Test Summary:

The EUT supports IS95 2G networks, CDMA2000 1xRTT for AWS 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 RC2 SO9 for AWS 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)

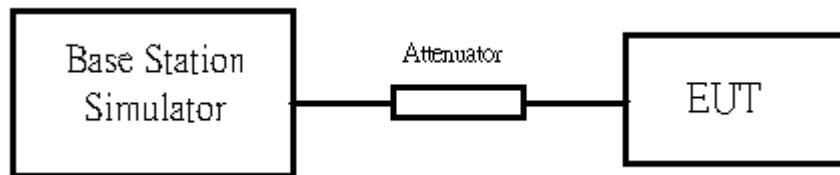
Radio Configuration	Service Options and Channel configurations	Supported?	AWS Band		
			CH25	CH425	CH875
			Pavg (dBm)	Pavg (dBm)	Pavg (dBm)
RC1	SO1	X	-	-	-
RC1	SO2	V	24.13	24.47	24.13
RC1	SO3	V	23.70	23.60	24.01
RC1	SO6	X	-	-	-
RC1	SO55	V	24.11	24.44	24.14
RC2	SO9	V	24.12	24.53	24.21
RC2	SO14	X	-	-	-
RC2	SO17	V	23.85	23.70	23.92
RC2	SO55	V	24.10	24.51	24.18
RC3	SO1	X	-	-	-
RC3	SO2	V	24.02	24.45	24.18
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	24.06	24.43	24.16
RC4	SO1	X	-	-	-
RC4	SO2	V	24.11	24.46	24.20
RC4	SO3	X	-	-	-
RC4	SO6	X	-	-	-
RC4	SO32 (no SCH1)	X	-	-	-
RC4	SO32 (SCH1 9.6 kpbs)	X	-	-	-



Radio Configuration	Service Options and Channel configurations	Supported?	AWS Band		
			CH25	CH425	CH875
Pavg (dBm)	Pavg (dBm)	Pavg (dBm)			
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	24.05	24.45	24.16
RC5	SO9	V	24.04	24.45	24.21
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	24.04	24.45	24.21



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		CallParms
	Mobile Station Information		Cell Power -86.00 dBm/1.23 MHz
	ESN (Hex): 0x6C32D3AE ESN (Dec): 108-03330990 RCC: RNC: MSIN: 3163712588 Slot Class: Slotted Slot Cycle Index: 2		Cell Band US PCS
	FCH Service Option Setup		Channel 1175
	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)		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 Node		
Active Cell		Cell Power
System Type		-86.00
IS-2000		dBm/1.23 dB
End Call		Cell Band
Paging INSI Setup		US PCS
Handoff Setup		Channel
		1175
	Radio Config	Protocol Rev
IS Operating	US cell US PCS	6 (IS-2000)
Max EIRP (dB)	(Fud1, Rus1)	Radio Config
Registration	(Fud2, Rus2)	(Fud3, Rus3)
QPCH Support	(Fud3, Rus3)	SO32 (+ SCH)
Enhanced RC	(Fud4, Rus3)	
Max Power Control	(Fud5, Rus4)	
IS Called Party		FCH Service Option Setup
Background	Active Cell Connected + Data	Sys Type: IS-2000
	IntRef Offset	
1 of 2		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