SC4812ETL @ 1.9 GHz CDMA BTS

TEST REPORT EXHIBIT

Index

FCC ID: IHET6BS1

SECTION A

Summary of RF Measurements

APPLICANT: MOTOROLA TRANSCEIVER TYPE: IHET6BS1

Summary of Radiated RF Measurements

Worst Case Radiated RF Spur Level for SC4812ETL @ 1.9GHz

Radiated Data			*Substituted Power*				*Spec*	*Result*
TX Channel	**Spurious Frequency (MHz)**	**Antenna Polarity**	**Measured Radiated Field Strength (dBuV/m)**	**Measured Radiated Field Strength (dBm)** (Note 1)	**TX Antenna Terminal Voltage (dBm)** (Note 2)	**EDRP (dBm)** (Note 3)	**FCC Part 24 MAX LIMIT (dBm)**	**Pass/ Fail**
1175	**16151.076**	**H**	**50.74**	**-44.48**	**-60**	**-48.25**	**- 13**	**Pass**

Notes:

1. Converting dBuV/M to dBm at 3 meters
   (dBuV/M) +9.542-104.77dB=dBm
   Converting dBuV/M to dBm at 10 meters
   (dBuV/M) +20 -104.77dB=dBm
2. The same horn antenna and measurement system was used for EUT scan and during substitution method. After maximizing the receive antenna and adjusting signal generator power level to measure the same emission level with the spectrum analyzer as with the EUT. Signal generator output level was recorded for each of the spurious frequencies. Test cable was then disconnected from the transmit horn and was connected to the input of the S/A measuring the voltage at the terminals of the antenna.
3. This value was obtained by converting the Equivalent Isotropic Radiated Power (EIRP) to ideal half-wave dipole reference power - (Equivalent Di-Pole Radiated Power - EDRP) per (TIA-603, 2.2.12.2(i)(m)

Radiated Engineer Date

Summary of Conducted RF Measurements

SC4812ETL @ 1.9GHz

FCC Part 24 at 23 dBm output (Min power)

CHANNEL	FREQUENCY (MHz)	SPUR LEVEL MEASURED (dBµV)	SPUR LEVEL MEASURED (dBm)	FCC MAX LIMIT dBm
25	14575.063	88.77	-18.23	-13

Engineer: _____ 8/1/01
Date

SECTION B

Summary of Modulation Characteristics

SC4812ETL @1.9GHz worst cases

CHANNEL	TUNE FREQUENCY (MHz)	RHO measured	RHO specifications	Pass/Fail
25	1931.25	0.9951	>0.912	Pass
1175	1988.75	0.9946	>0.912	Pass

The BTS was configured for maximum power out of 46.0 dBm and minimum power out of 23.0 dBm respectively. The output power was set respectively to 40.0 Watts or 200 mWatts using an HP437B power meter.

Engineer: Francisco Avalos 8/3/01
Date

Channel 25
Maximum Power

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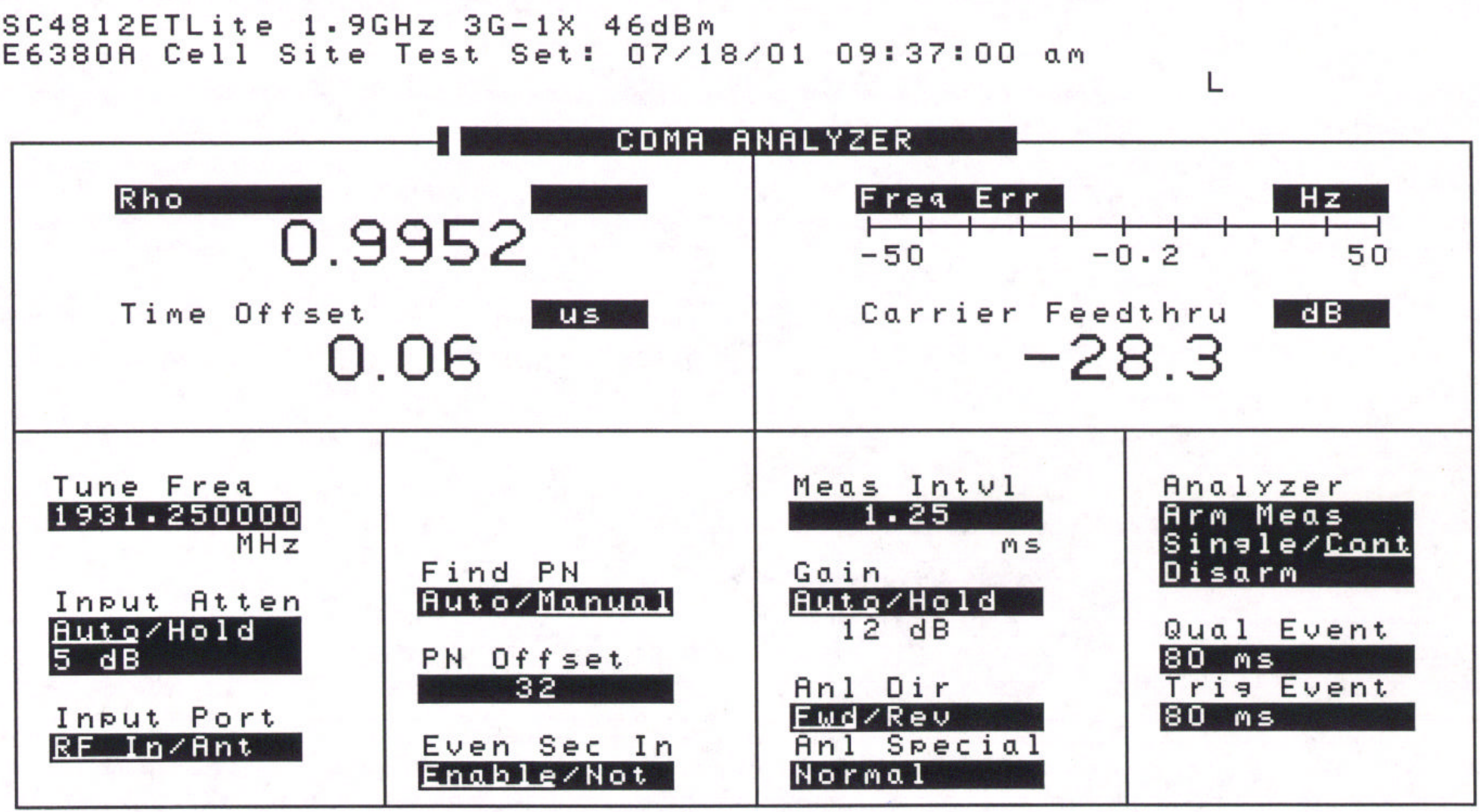

Channel 1175
Maximum Power

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