

SC4812ET @ 1.9 GHz CDMA BTS

TEST REPORT EXHIBIT

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MOTOROLA

Global Telecom Solutions Sector

FCC ID: IHET6BM1

SECTION A

Summary of RF Measurements

Summary of Radiated RF Measurements

Worst Case Radiated RF Spur Levels for SC4812ET @ 1.9GHz

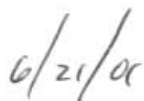
<i>Radiated Data</i>			<i>Substituted Power</i>				<i>Spec</i>	<i>Result</i>
TX Channel	Spurious Frequency (MHz)	Antenna Polarity	Measured Radiated Field Strength (dBuV/M)	Measured Radiated Field Strength (dBm) (Note 1)	TX Antenna Terminal Voltage (dBm) (Note 2)	EDRP (dBm) (Note 3)	FCC Part 24 MAX LIMIT (dBm)	Pass/Fail
1175	5966.2796	V	46.8	-48.42	-60.3	-53.65	-13	Pass

Notes:

1. Converting dBuV/M to dBm at 3 meters
 $(\text{dBuV/M}) + 9.542 - 104.77 \text{dB} = \text{dBm}$
 Converting dBuV/M to dBm at 10 meters
 $(\text{dBuV/M}) + 20 - 104.77 \text{dB} = \text{dBm}$
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

APPLICANT: MOTOROLA


TRANSCEIVER TYPE: IHET6BM1

Summary of Conducted RF Measurements

SC4812ET @1.9GHz

FCC Part 24 at 46 dBm output (Max power)

CHANNEL	FREQUENCY (MHz)	SPUR LEVEL MEASURED (dB μ V)	SPUR LEVEL MEASURED (dBm)	FCC MAX LIMIT dBm
1175	5966.271	89.35	-17.65	-13

Engineer: 

6/21/01

Date



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SECTION B

Modulation Characteristics

Maximum Power

4812ET 1.9 GHz 3G-1X CHA 25 46dBm
E6380A Cell Site Test Set: 05/18/01 04:10:00 PM

IHET6BM1
SC4812ETL 1.9 GHz
CDMA BTS

Channel 25
Maximum Power

CDMA ANALYZER

Rho

0.9978

Time Offset

0.03

us

Freq Err

-50

0.4

50

Hz

Carrier Feedthru

-39.5

dB

Tune Freq

1931.250000

MHz

Input Atten

Auto/Hold

0 dB

Input Port

RF In/Ant

Find PN

Auto/Manual

PN Offset

0

Even Sec In

Enable/Not

Meas Intvl

0.50

ms

Gain

Auto/Hold

30 dB

Anl Dir

Fwd/Rev

Anl Special

Normal

Analyzer

Arm Meas

Single/Cont

Disarm

Qual Event

80 ms

Tris Event

Immed

4812ET 1.9 GHz 3G-1X CHA 1175 46dBm
E6380A Cell Site Test Set: 05/18/01 03:45:00 PM
Channel 1175
Maximum Power

IHET6BM1
SC4812ETL 1.9 GHz
CDMA BTS

CDMA ANALYZER

Rho

0.9961

Time Offset

-0.04

us

Freq Err

-50

-1.0

50

Hz

Carrier Feedthru

-38.6

dB

Tune Freq

1988.750000
MHz

Input Atten

Auto/Hold
0 dB

Input Port

RF In/Ant

Find PN

Auto/Manual

PN Offset

0

Even Sec In

Enable/Not

Meas Intvl

0.50
ms

Gain

Auto/Hold
24 dB

Anl Dir

Fwd/Rev
Anl Special

Normal

Analyzer

Arm Meas
Single/Cont
Disarm

Qual Event

80 ms
Tris Event

Immed



MOTOROLA

Global Telecom Solutions Sector

FCC ID: IHET6BM1

Modulation Characteristics

Minimum Power