Test Report:	3W07345
Applicant:	Dekolink Wireless Ltd. 16 Bazel St. Qiryat-Arieh Petah-Tikva, 49510 Israel
Equipment Under Test: **(EUT)**	MW-CBDA-800AB-1W60-PG2 Bi-Directional Amplifier
FCC ID:	OIWCBDA800AB1W60
In Accordance With:	**FCC Part 22**
Tested By:	Nemko Canada Inc. 303 River Road, R.R. 5 Ottawa, Ontario K1V 1H2
Authorized By:	 Kevin Carr, EMC Specialist
Date:	30 October 2003
Total Number of Pages:	27

Table of Contents

Section 1. Summary of Test Results

General

All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 22.

☒	New Submission	☒	Production Unit
☐	Class II Permissive Change	☐	Pre-Production Unit

A	M	P	Equipment Code

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.
See " Summary of Test Data".

TESTED BY: _____ DATE: 29 October 2003
Glen Westwell, Wireless Technologist

Summary Of Test Data

Name Of Test	Para. No.	Result
RF Power Output	2.1046	Complies
Occupied Bandwidth	2.1049	Complies
Spurious Emissions at Antenna Terminals	2.1051	Complies
Field Strength of Spurious Emissions	2.1053	Complies
Frequency Stability	2.1055	N/A

Footnotes For N/A's:
All Tests were conducted with the AGC circuitry enabled, and verified with AGC disabled.
The EUT is an f1-f1 amplifier, as such frequency stability was not performed.

Indoor	Temperature:	23°C
	Humidity:	15%
Outdoor	Temperature:	12°C
	Humidity:	60%

Section 2. General Equipment Specification

Manufacturer:	Dekolink Wireless Ltd.
Model No.	MW-CBDA-800AB-1W60-PG2
Serial No:	03074157
Date Received In Laboratory:	15 Oct 2003
Nemko Identification No.:	#1
Supply Voltage:	120VAC, 60Hz
Frequency Range:	Downlink: 869-894MHz Uplink: 824-849 MHz
RF Output Power (Rated):	Downlink: 27.0dBm (0.5W) Uplink: 27.0dBm (0.5W)
Modulation:	TDMA & CDMA
Emission Designator:	DXW – TDMA F9W - CDMA

Section 3. RF Power Output

Para. No.: 2.1046

Test Performed By: Glen Westwell	**Date of Test: 28 Oct 2003**

Minimum Standard: 22.913(a)

Test Results: Complied.

The maximum RF output power is within ± 1dB of the manufacturer's rating. The RF output power is de-rated according to the number of channels via AGC and is equal to Pmax –10LogN.

Pmax = Maximum RF Output Power
N = Number Of Channels

Frequency (MHz)	Measured Power (dBm)	Rated Power (dBm)
869	26.2	27.0
881	27.3	27.0
894	26.4	27.0
824	27.1	27.0
836	27.3	27.0
849	26.5	27.0

Section 4. Occupied Bandwidth

Para. No.: 2.1049

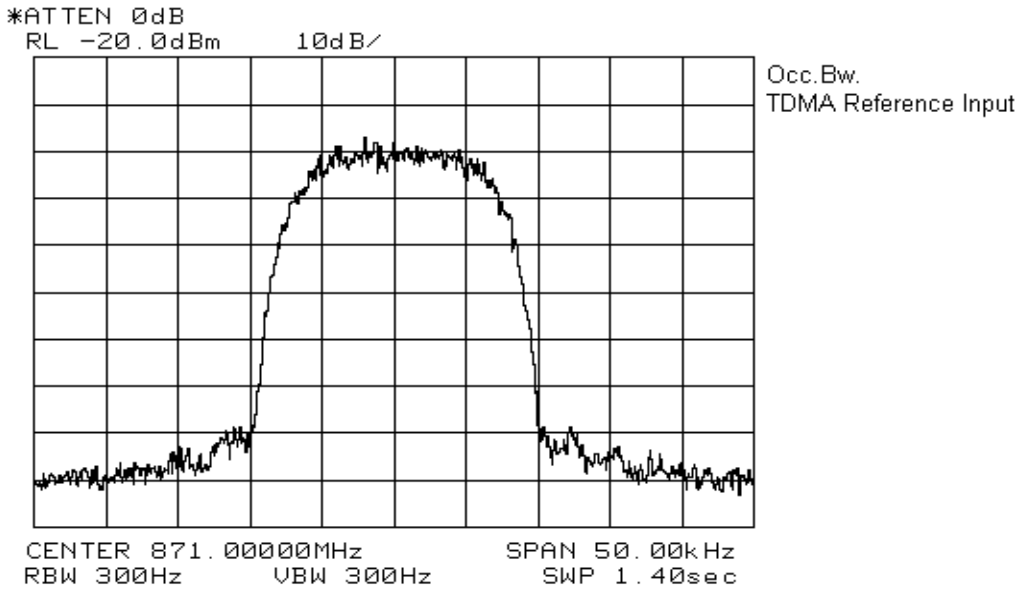
Test Performed By: Glen Westwell	**Date of Test: 27 Oct 2003**

Minimum Standard: 22.917, Input vs Output

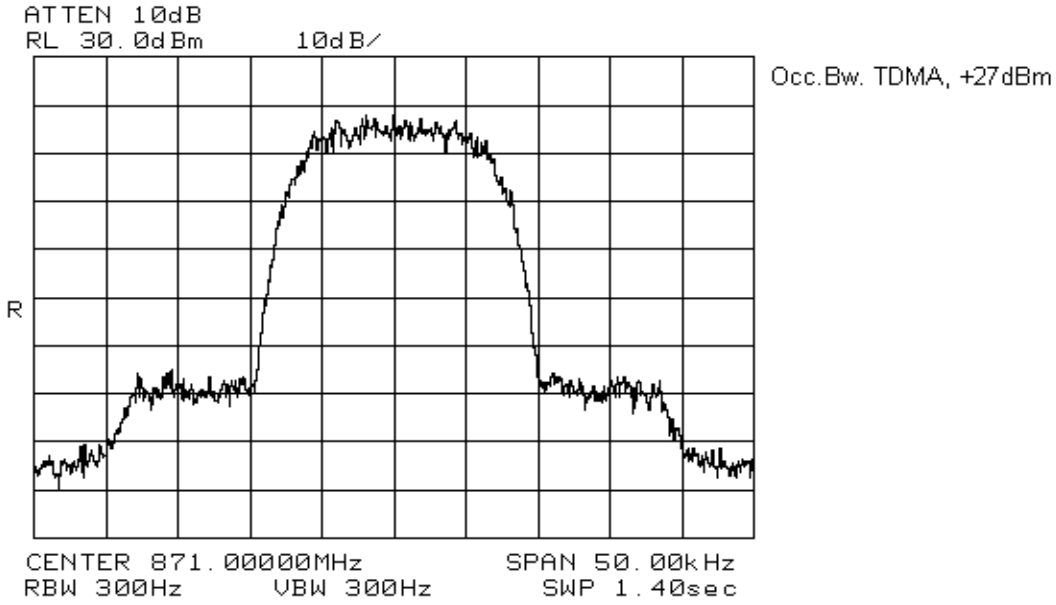
Test Results: Complied.

Measurement Data: See attached graphs.

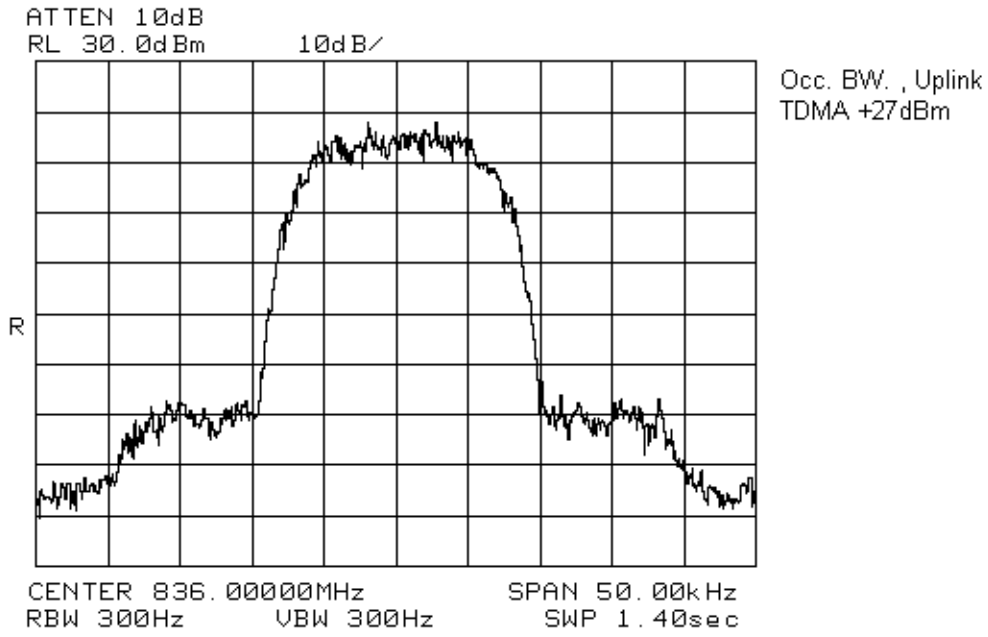
The occupied bandwidth was measured by comparison of input to the output signal. This was done in order to determine if there was any degradation to the output signal due to the amplification through the repeater.

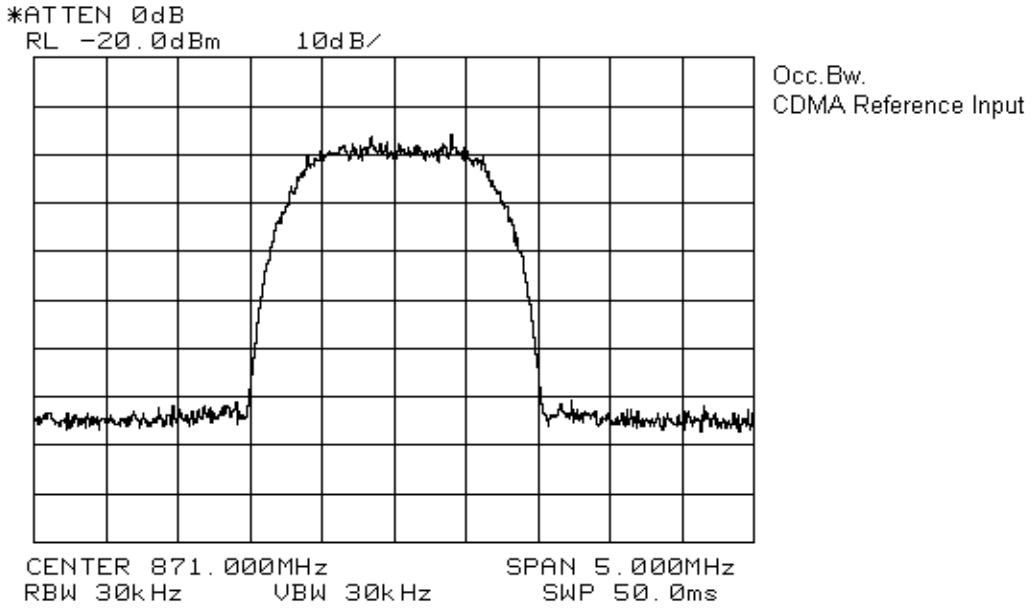

*ATTEN 0dB
RL -20.0dBm
10dB/
Occ.Bw.
TDMA Reference Input
CENTER 871.00000MHz
SPAN 50.00kHz
RBW 300Hz
VBW 300Hz
SWP 1.40sec

Downlink

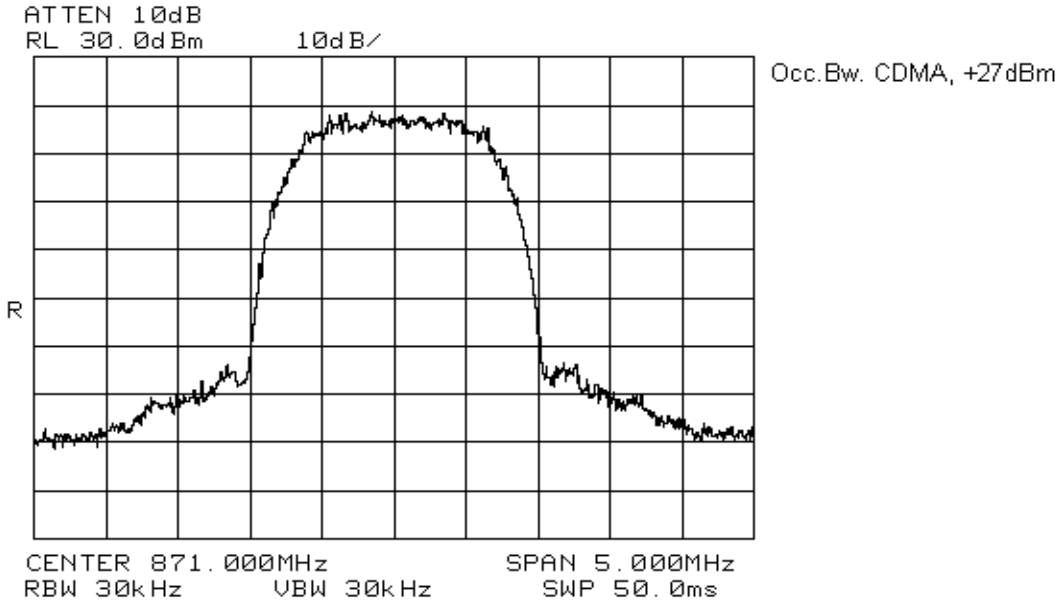

ATTEN 10dB
RL 30.0dBm
10dB/
Occ.Bw. TDMA, +27dBm
R
CENTER 871.00000MHz
SPAN 50.00kHz
RBW 300Hz
VBW 300Hz
SWP 1.40sec

Uplink

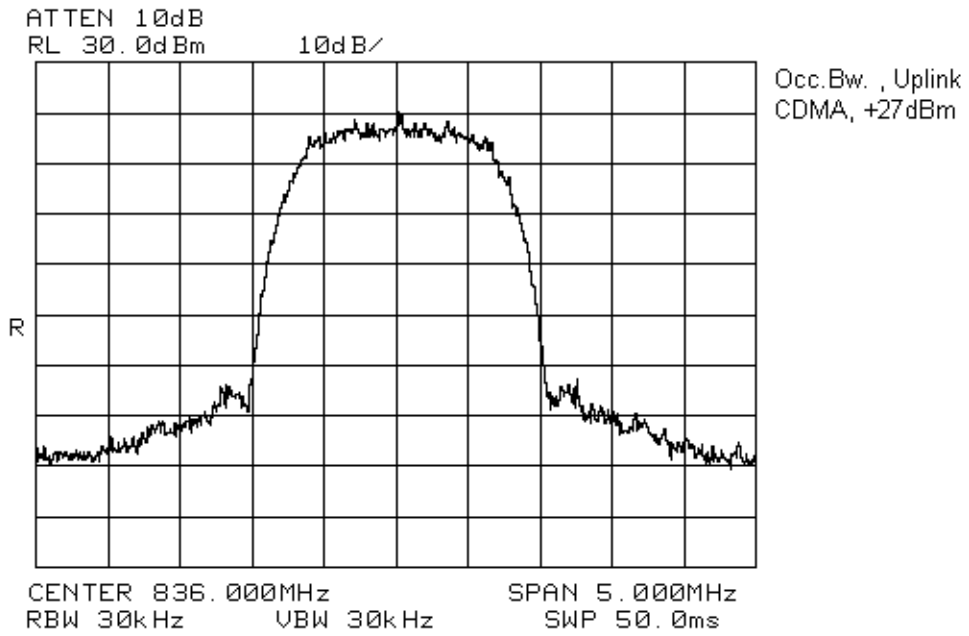

ATTEN 10dB
RL 30.0dBm
10dB/
R
Occ. BW. , Uplink
TDMA +27dBm
CENTER 836.00000MHz
SPAN 50.00kHz
RBW 300Hz
VBW 300Hz
SWP 1.40sec


*ATTEN 0dB
RL -20.0dBm
10dB/
Occ.Bw.
CDMA Reference Input
CENTER 871.000MHz
SPAN 5.000MHz
RBW 30kHz
VBW 30kHz
SWP 50.0ms

Downlink


ATTEN 10dB
RL 30.0dBm
10dB/
Occ.Bw. CDMA, +27dBm
R
CENTER 871.000MHz
SPAN 5.000MHz
RBW 30kHz
VBW 30kHz
SWP 50.0ms

Uplink


ATTEN 10dB
RL 30.0dBm
10dB/
R
Occ.Bw. , Uplink
CDMA, +27dBm
CENTER 836.000MHz
SPAN 5.000MHz
RBW 30kHz
VBW 30kHz
SWP 50.0ms

Section 5. Spurious Emissions at Antenna Terminals

Para. No.: 2.1051

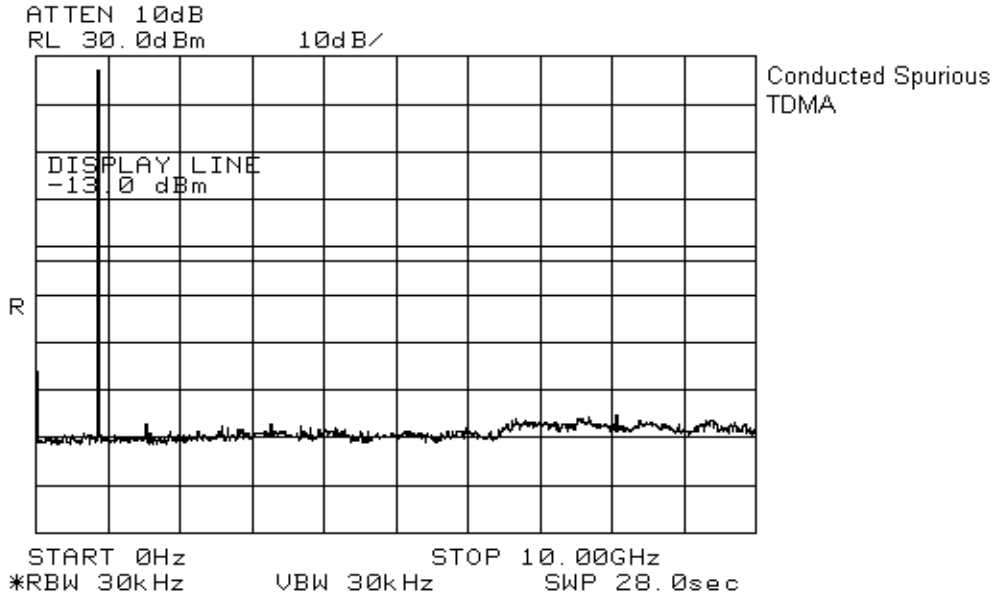
Test Performed By: Glen Westwell	**Date of Test: 27 Oct 2003**

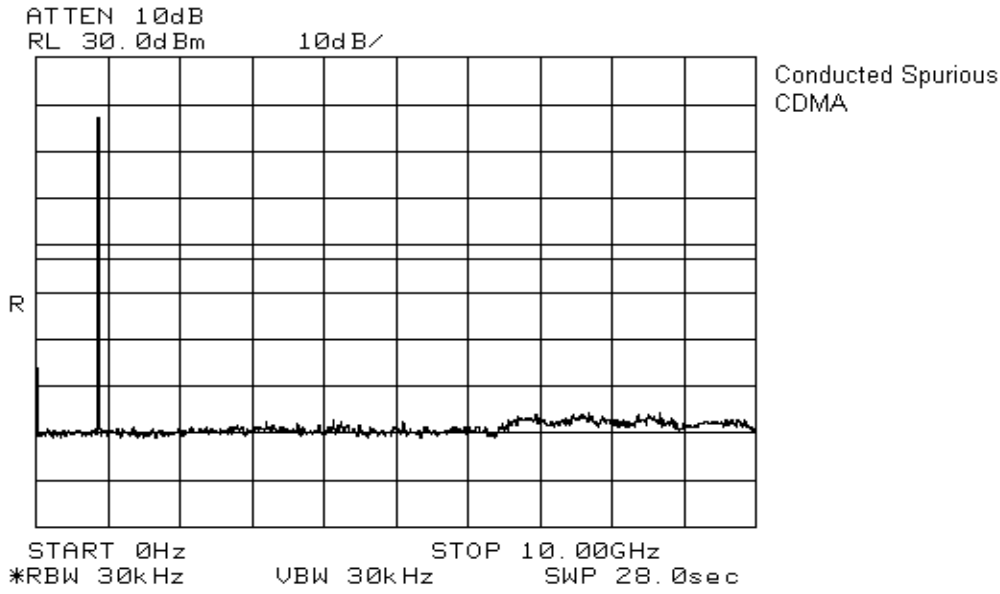
Minimum Standard: 22.917(e): -13dBm

Test Results: Complied.

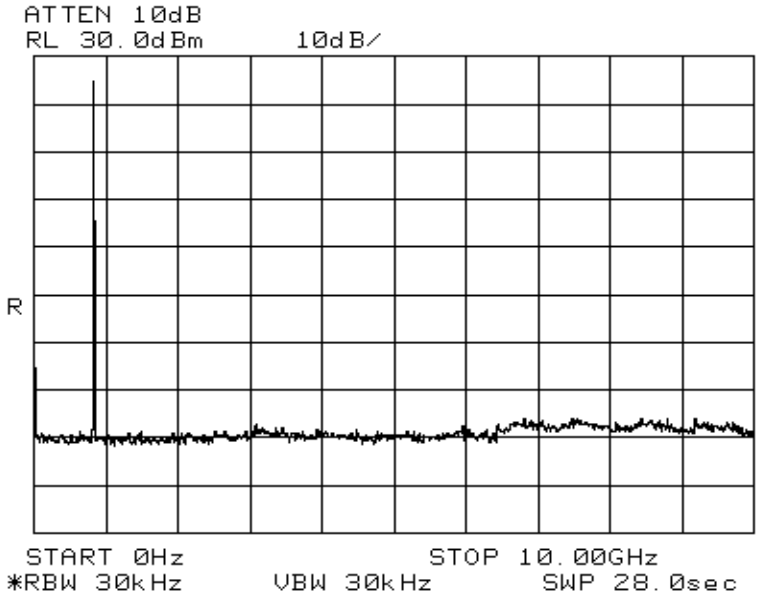
Measurement Data: See attached graph(s).

Downlink

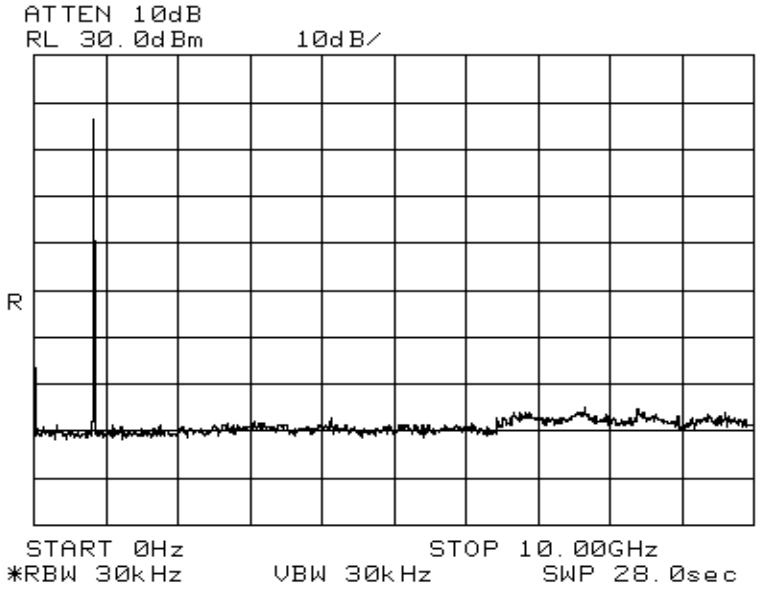

ATTEN 10dB
RL 30.0dBm
10dB/
Conducted Spurious
TDMA
DISPLAY LINE
-13.0 dBm
R
START 0Hz
STOP 10.00GHz
*RBW 30kHz
VBW 30kHz
SWP 28.0sec


ATTEN 10dB
RL 30.0dBm
10dB/
Conducted Spurious
CDMA
R
START 0Hz
STOP 10.00GHz
*RBW 30kHz
VBW 30kHz
SWP 28.0sec

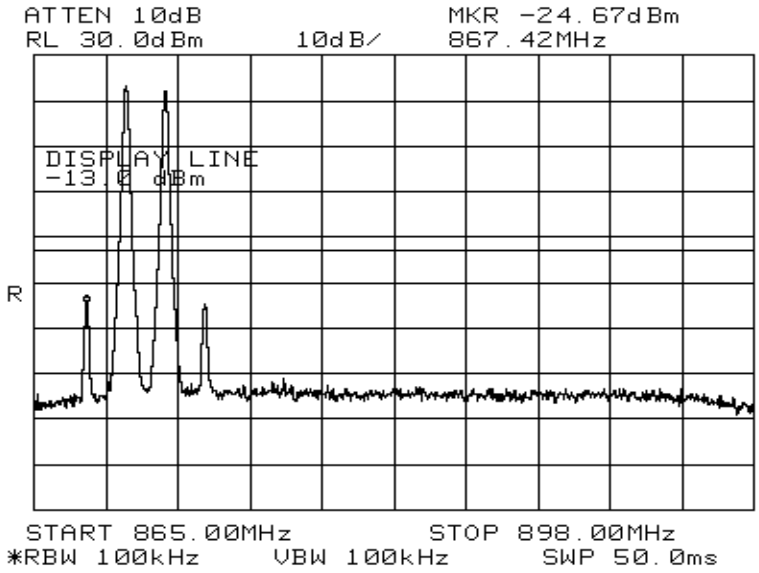
Uplink



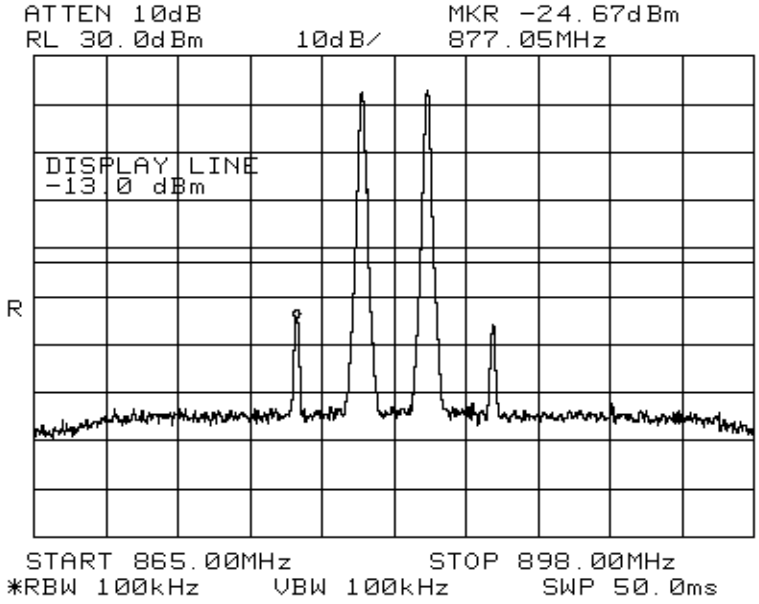
Conducted Spurious, Uplink
TDMA



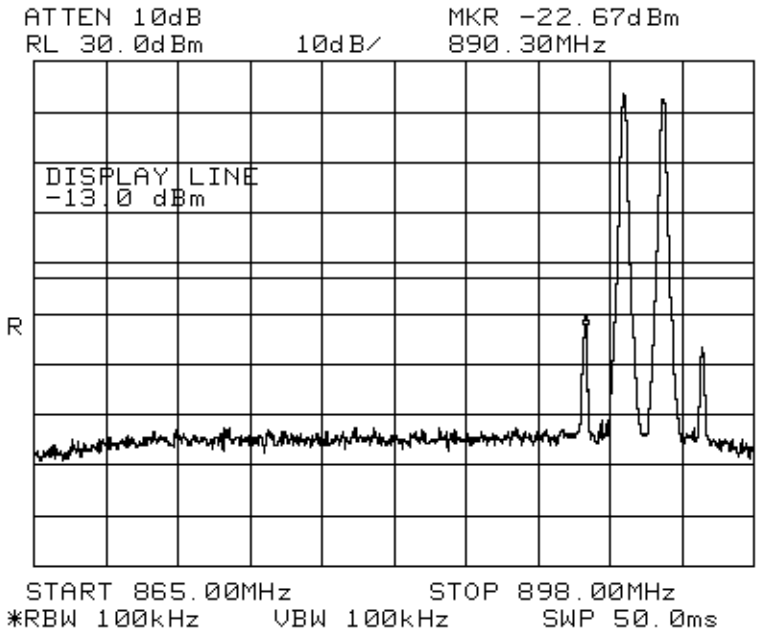
Conducted Spurious, Uplink
CDMA



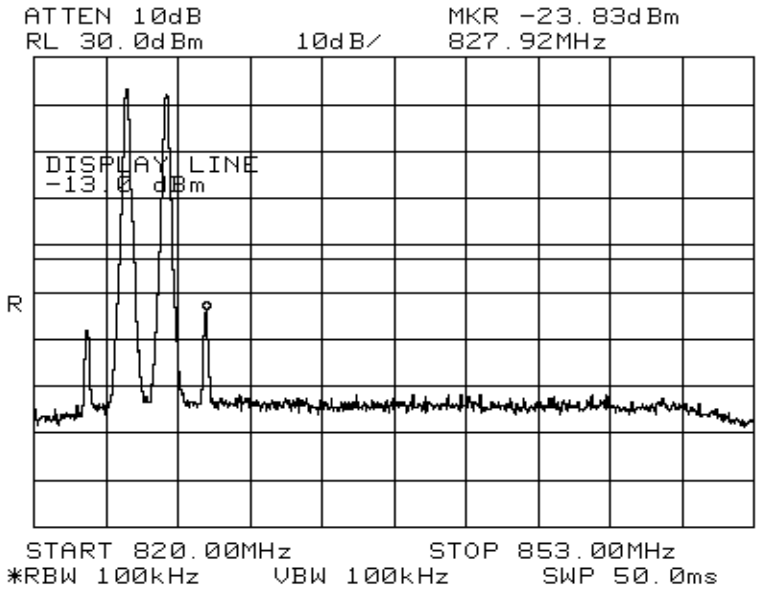
Downlink, Lower Band Edge
+27dBm Composite TDMA



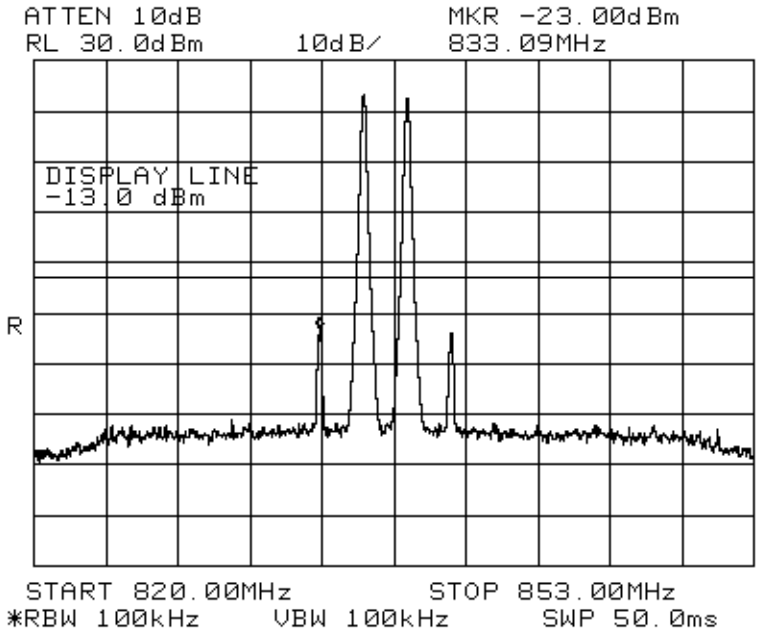
Downlink, Mid Band
+27dBm Composite TDMA



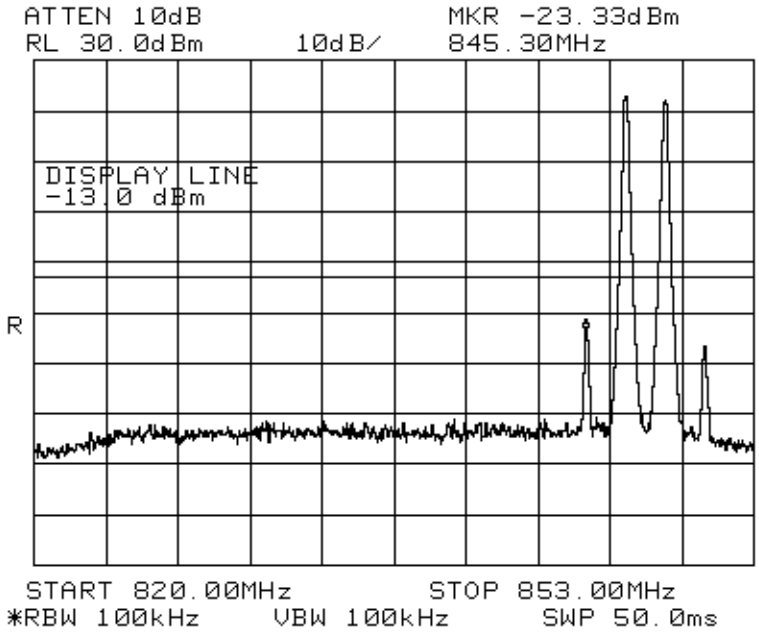
Downlink, Upper Band Edge
+27dBm Composite TDMA



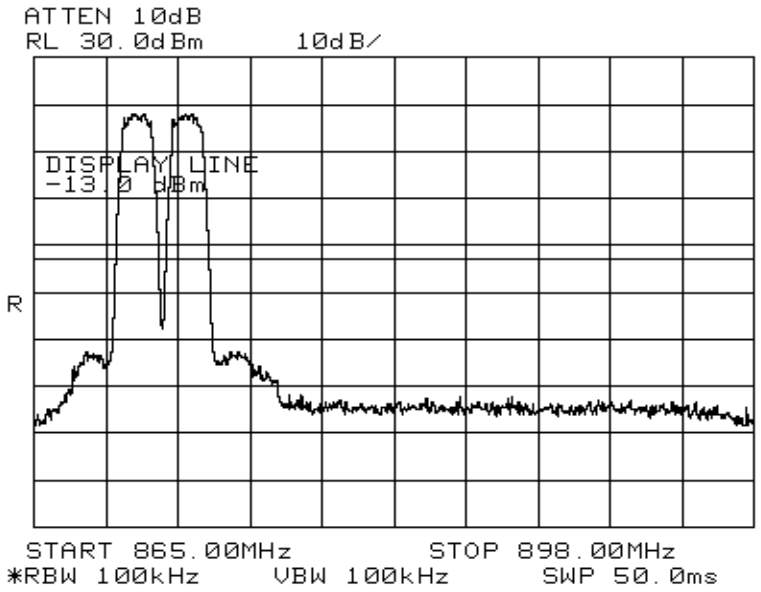
Uplink Lower Band Edge
+27dBm Composite TDMA



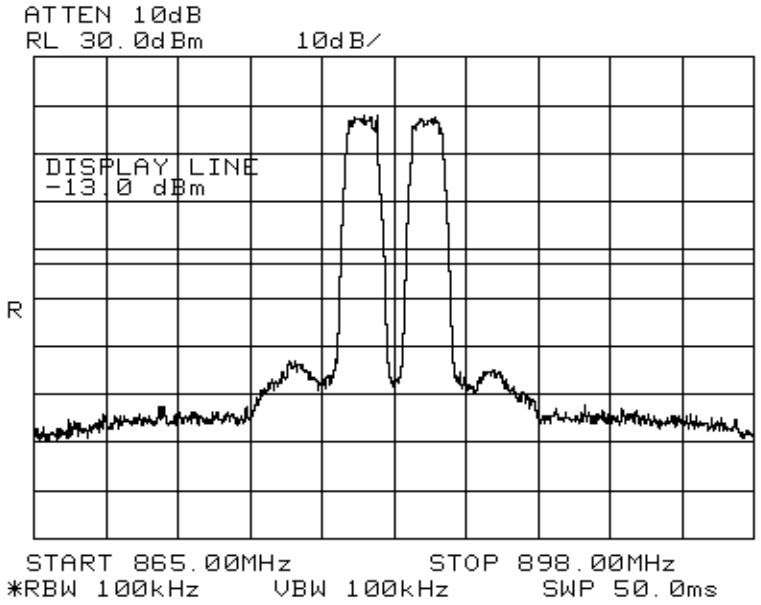
Uplink Mid Band
+27dBm Composite TDMA



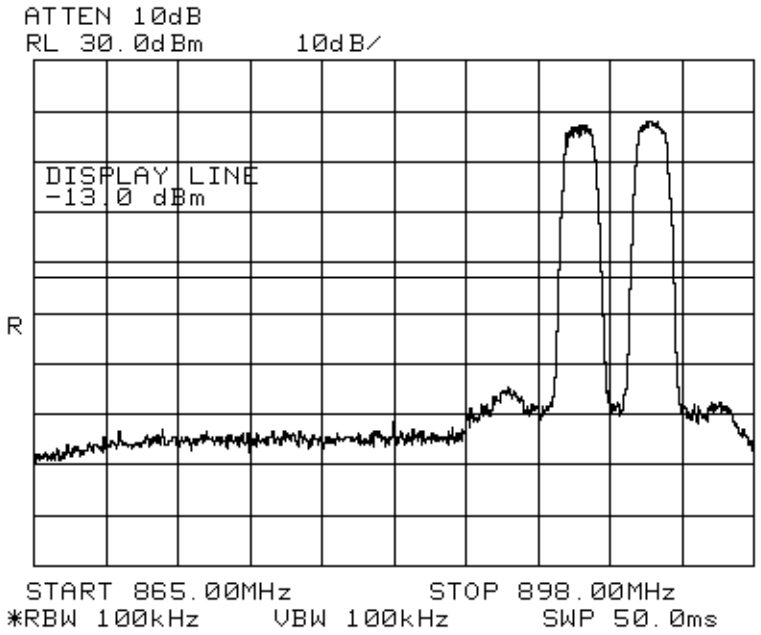
Uplink Upper Band Edge
+27dBm Composite TDMA



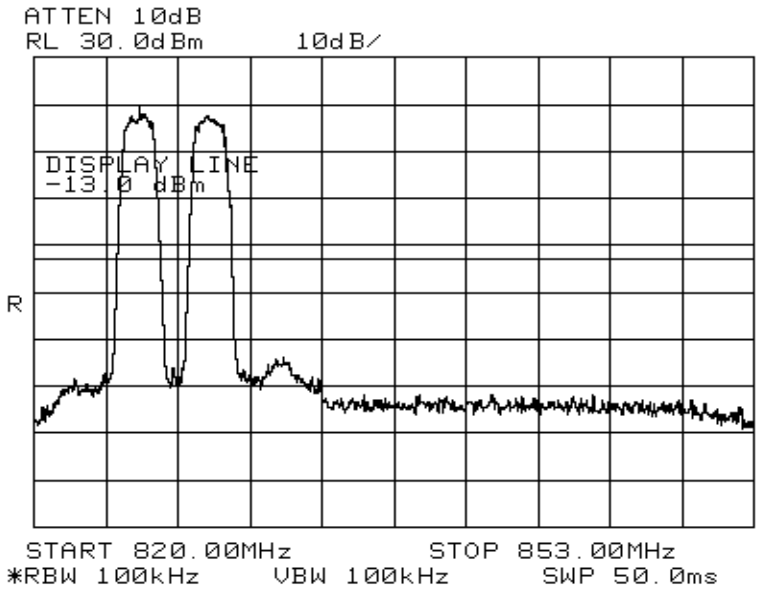
Downlink Lower Band Edge
+27dBm Composite CDMA



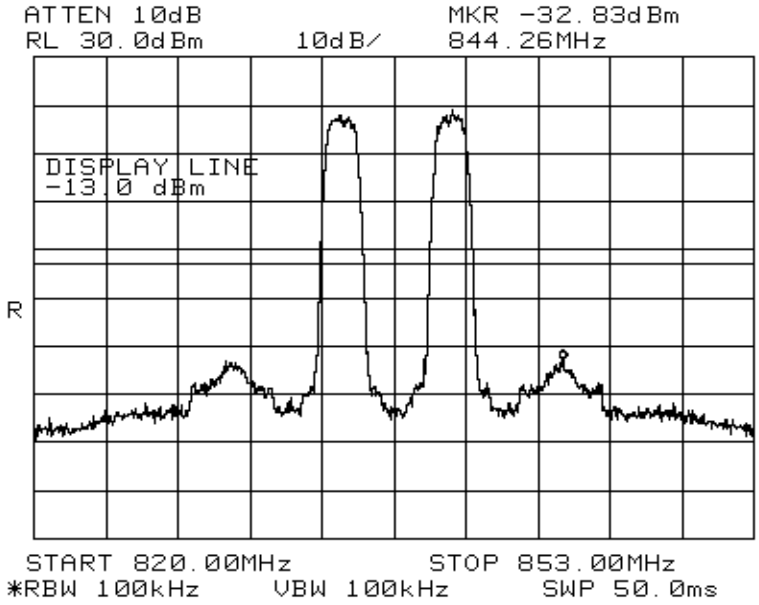
Downlink, Mid Band
+27dBm Composite CDMA



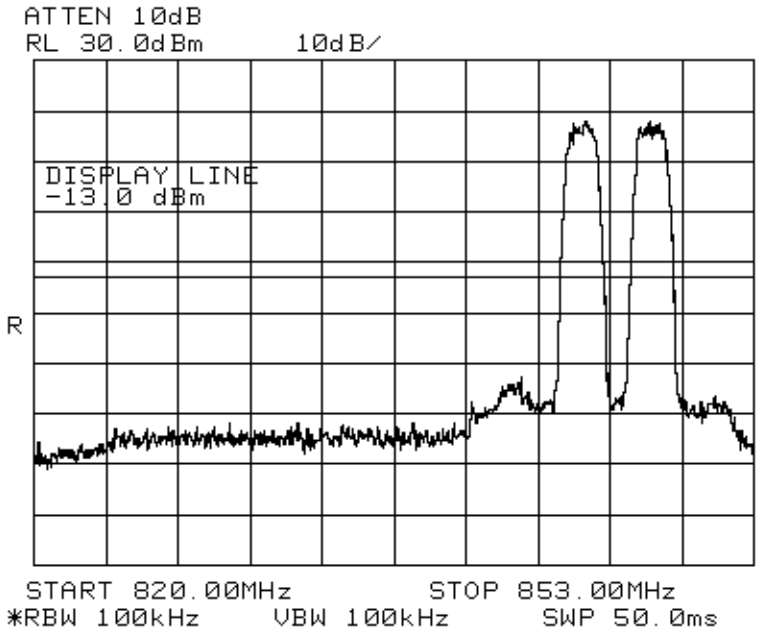
Downlink, Upper Band Edge
+27dBm Composite CDMA



Uplink Lower Band Edge
+27dBm Composite CDMA



Uplink, Mid Band
+27dBm Composite CDMA



Uplink Upper Band Edge
+27dBm Composite CDMA

Section 6. Field Strength of Spurious Emissions

Para. No.: 2.1053

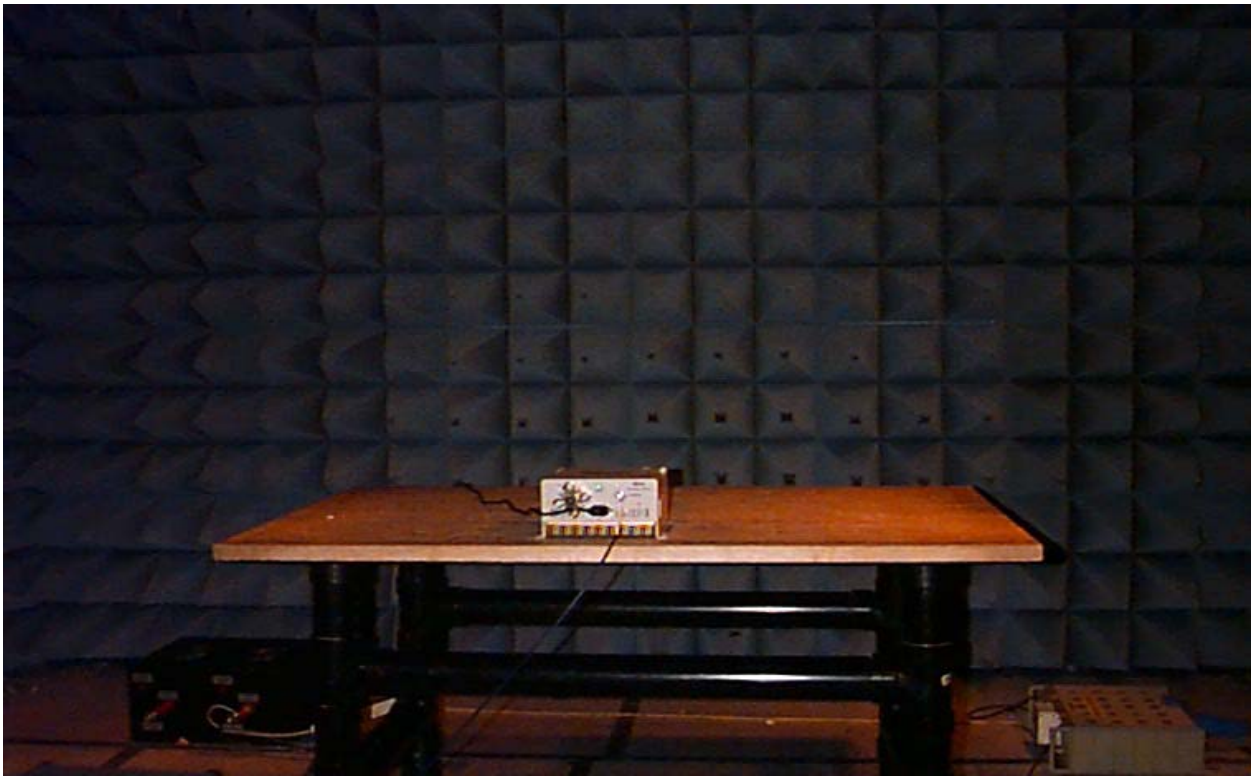
Test Performed By: Glen Westwell	**Date of Test: 29 Oct 2003**

Minimum Standard: 22.917(e): -13dBm

Test Results: Complied.
No emissions detected.

Measurement Data: All emissions were searched to the 10^{th} harmonic.

Photographs of Test Setup
Pre-Scan



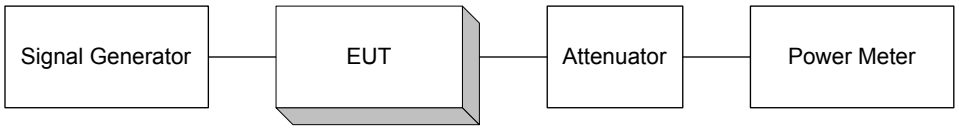
OATS

Section 7. Test Equipment List

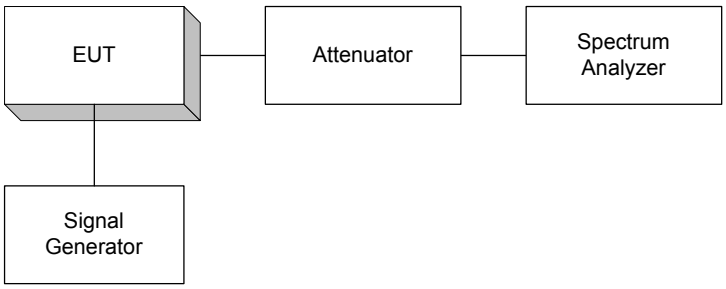
CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.
1 Year	Spectrum Analyzer	Hewlett Packard	8564E	FA001367	13 May 03	13 May 04
1 Year	Signal Generator	Rhode & Schwarz	SM1Q03E	FA001269	06 Dec 02	06 Dec 03
1 Year	Signal Generator	Rohde & Schwarz	SM1Q03	FA001091	25 Sep 03	25 Sep 04
1 Year	RF Millivoltmeter	Rohde & Schwarz	URV5	FA000420	20 May 03	20 May 04
1 Year	Insertion Unit	Rohde & Schwarz	URV5-Z4	FA000905	10 Apr 03	10 Apr 04
1 Year	Power Sensor	Hewlett Packard	8487A	FA001741	28 Mar 03	28 Mar 04
1 Year	Power Meter	Hewlett Packard	E4418B	FA001413	08 May 03	08 May 04
1 Year	RF AMP	JCA	4-8 GHz	FA001497	18 June 03	18 June 04
1 Year	RF AMP	JCA	2-4 GHz	FA001496	18 June 03	18 June 04
1 Year	RF AMP	JCA	1-2 GHz	FA001498	18 June 03	18 June 04
1 Year	Spectrum Analyzer	Hewlett-Packard	8566B	FA001309	June. 05/03	June. 05/04
1 Year	Spectrum Analyzer Display	Hewlett-Packard	85662A	FA001309	June. 05/03	June. 05/04
NCR	Bilog	Schaffner	CBL6112B	FA001504	NCR	NCR
1 Year	Horn Antenna #2	EMCO	3115	FA000825	Dec. 09/02	Dec. 09/03

Section 8. Block Diagrams

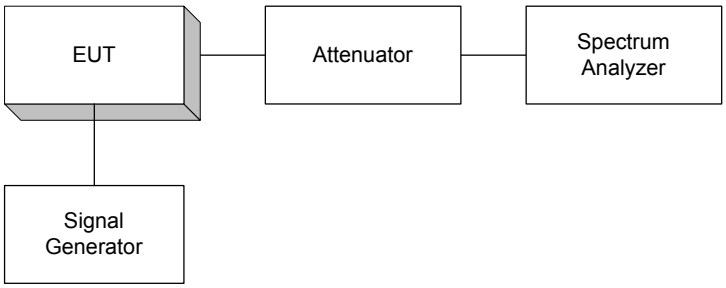
Para. No. 2.1046 - R.F. Power Output



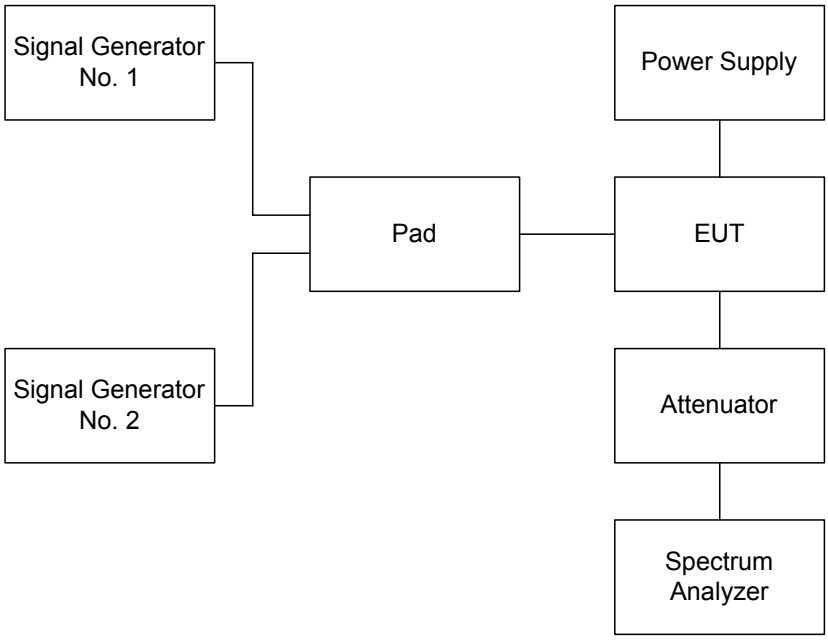
Para. No. 2.1049 - Occupied Bandwidth



Para. No. 2.1051 - Spurious Emissions at Antenna Terminals



Para. No. 2.1051 - Spurious Emissions at Antenna Terminals



Para. No. 2.1053 - Field Strength of Spurious Radiation

TIA/EIA 603
Effective Radiated Power
Spurious Emissions