KTL Test Report:	9R01459
Applicant:	Communication Components Inc. 299 Forest Avenue Paramus, NJ 07652
Equipment Under Test: (E.U.T.)	PCS Bi-Directional Amplifier
FCC ID:	NT3BDA-1819-60
In Accordance With:	**FCC Part 24, Subpart E** Broadband PCS Repeaters
Tested By:	KTL Ottawa Inc. 3325 River Road, R.R. 5 Ottawa, Ontario K1V 1H2
Authorized By:	
	R. Grant, RF Engineer
Date:	
Total Number of Pages:	149

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Section 1. Summary of Test Results

Manufacturer: Communication Components Inc.

Model No.: BDA-1819-60

Serial No.: 2380

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 24, Subpart E.

☒ 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".

NVLAP LAB CODE: 100351-0

TESTED BY: _____ DATE: _____
Kevin Carr, Technologist

Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	MEAS.	RESULT
RF Power Output	24.232	100W	Plot	Complies
Occupied Bandwidth (CDMA)	24.238	Input/Output	Plot	Complies
Occupied Bandwidth (GSM)	24.238	Input/Output	Plot	Complies
Occupied Bandwidth (NADC)	24.238	Input/Output	Plot	Complies
Spurious Emissions at Antenna Terminals	24.238(a)	-13 dBm	-13.0 dBm	Complies
Field Strength of Spurious Emissions	24.238(a)	-13 dBm E.I.R.P.	Chart	Complies
Frequency Stability	24.235	N/A	N/A	N/A

Footnotes For N/A's:

Test Conditions:

Indoor Temperature: 25 °C
Humidity: 23 %

Outdoor Temperature: 20 °C
Humidity: 23 %

Section 2. General Equipment Specification

Supply Voltage Input: 15 Vdc, via 120 VAC, 60 Hz to 15 Vdc Power Cube

Frequency Range: **Downlink:**
A/D Block: 1930 MHz to 1949.95 MHz
B Block: 1950 MHz to 1964.95 MHz

Frequency Range: **Uplink:**
A/D Block: 1850 MHz to 1869.95 MHz
B Block: 1870MHz to 1884.95 MHz

20 dB Bandwidth:

Type of Modulation and Designator:

CDMA (F9W)	GSM (GXW)	TDMA (DXW)
☒	☒	☒

AGC Threshold: Not Applicable

Output Impedance: 50 ohm

Gain: 66.0 dB Nominal

Max Input Power: -35.7 dBm

RF Output (Rated):

	Uplink (dBm)	Downlink (dBm)
Single:	20.0	20.0
Composite:	23.0	23.0

Frequency Translation:

F1-F1	F1-F2	N/A
☒	☐	☐

Band Selection:

Software	Duplexer Change	Fullband Coverage
☐	☒	☐

Description of Modifications For Class II Permissive Change

NOT APPLICABLE

Modifications Made During Testing

NOT APPLICABLE

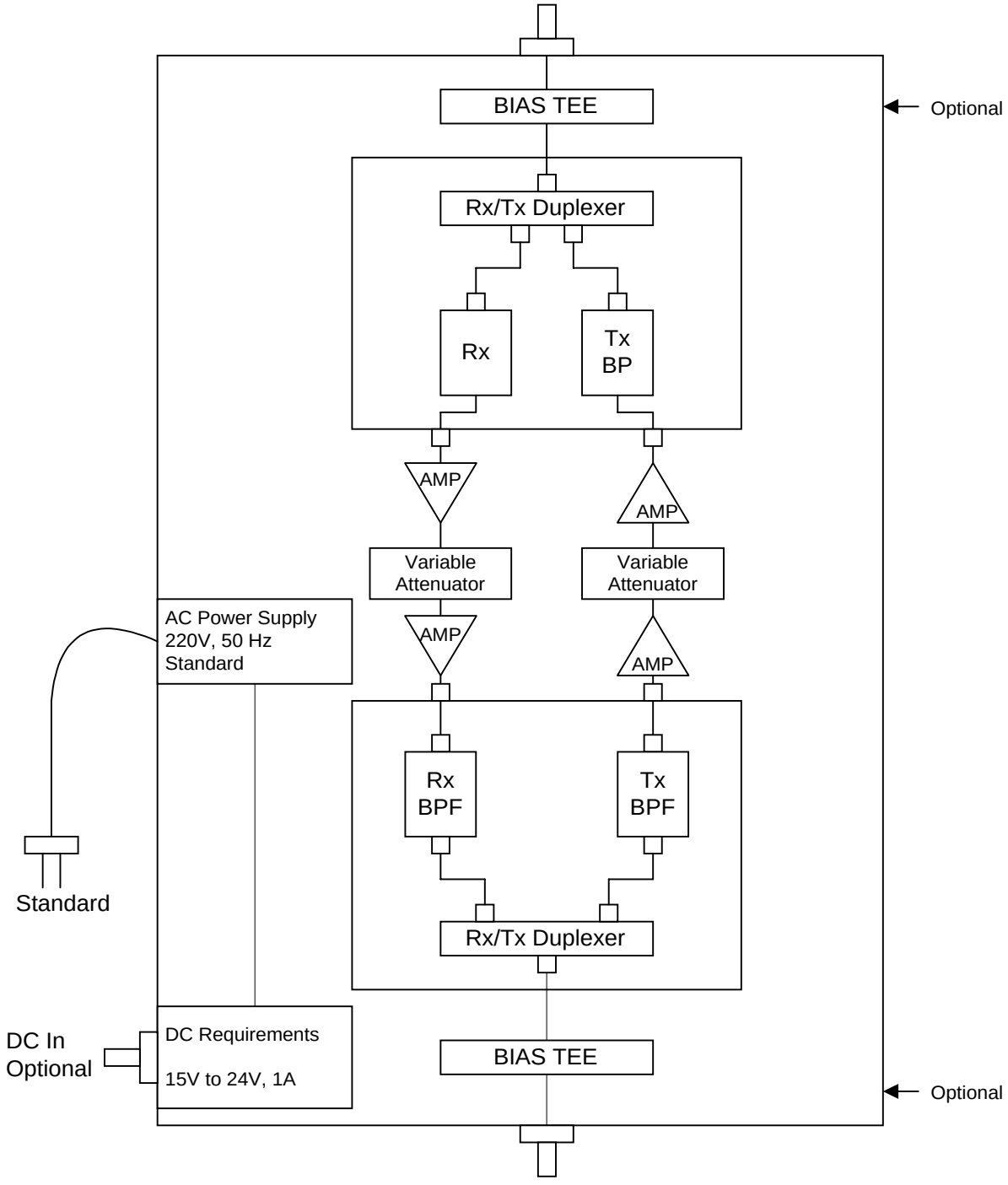
Theory of Operation

Communication Components Inc. Bi-Directional Amplifier (BDA) improves the sensitivity of base stations in indoor locations where there is a significant amount of cable loss in RF distribution systems as well as weak penetration of the signal from outside of the building.

The BDA was specifically designed for low system group delay to minimize Bit Error Rate (BER) of digital transmissions. The BDA block consists of a single compact unit with two RF Connectors. It is rugged and can be easily connected during cable installation. It has a moisture proof NEMA 4 enclosure suitable for indoor and outdoor installation with two low noise medium power amplifiers, intermodulation level control circuit, optional independently controlled up-link and down-link attenuators, duplexers and external AC power supply.

Optional package allows DC voltage to be supplied to the BDA by one of two ways: Via the external DC input connector or via the centre conductor of the RF coax cable.

System Diagram



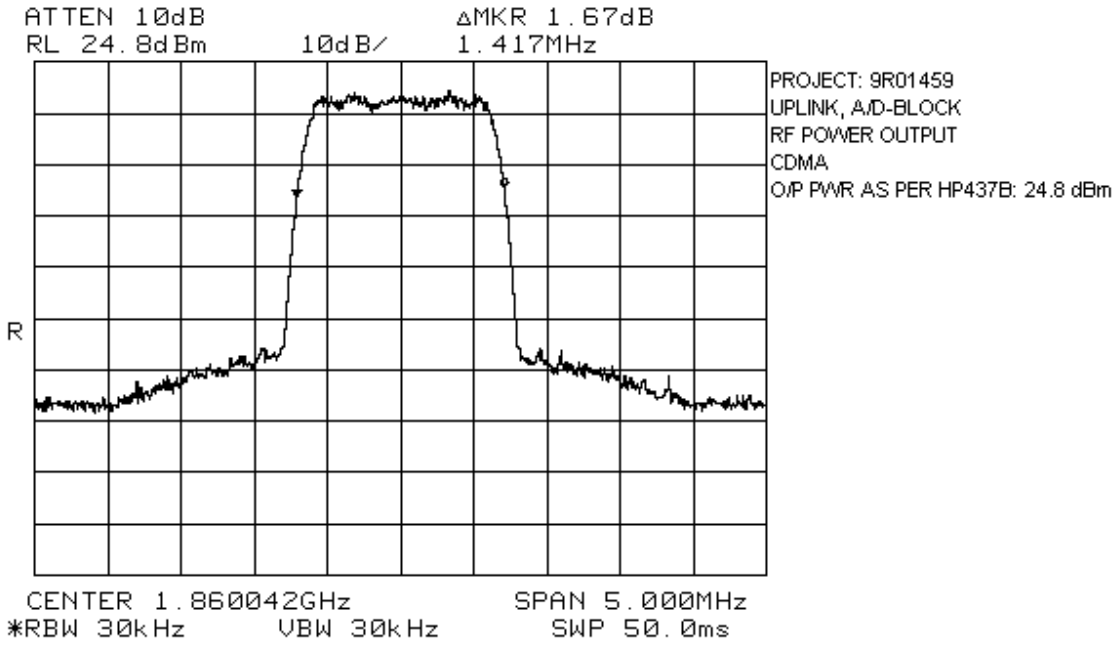
Section 3. RF Power Output

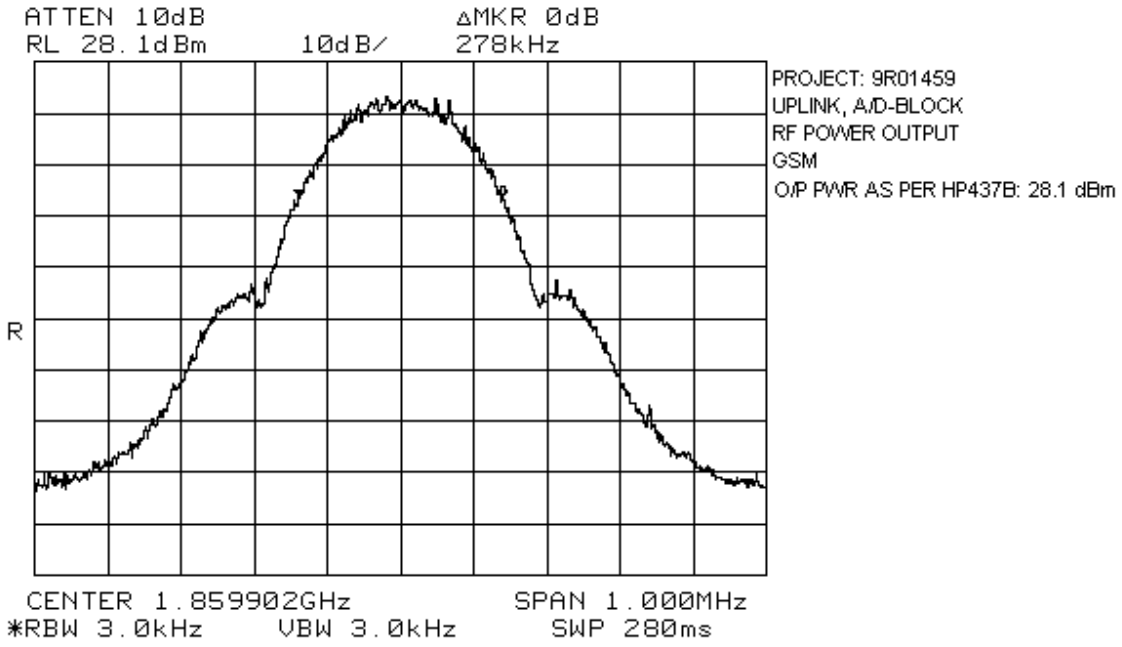
NAME OF TEST: RF Power Output	PARA. NO.: 2.985
TESTED BY: Kevin Carr	DATE: April 21, 1999

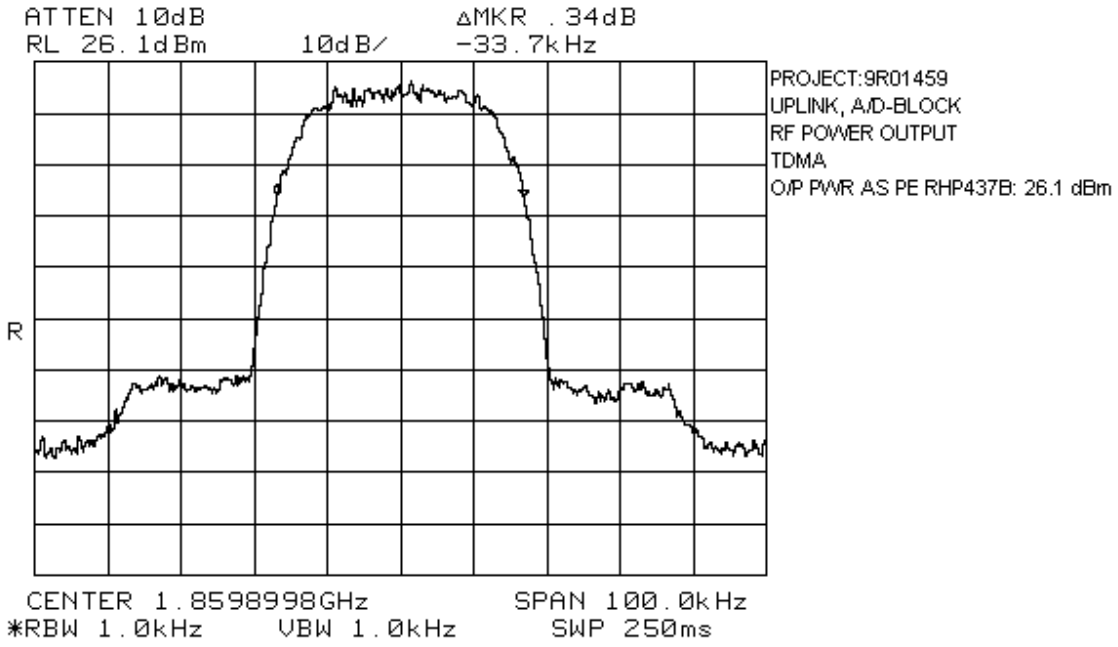
Test Results: Complies.

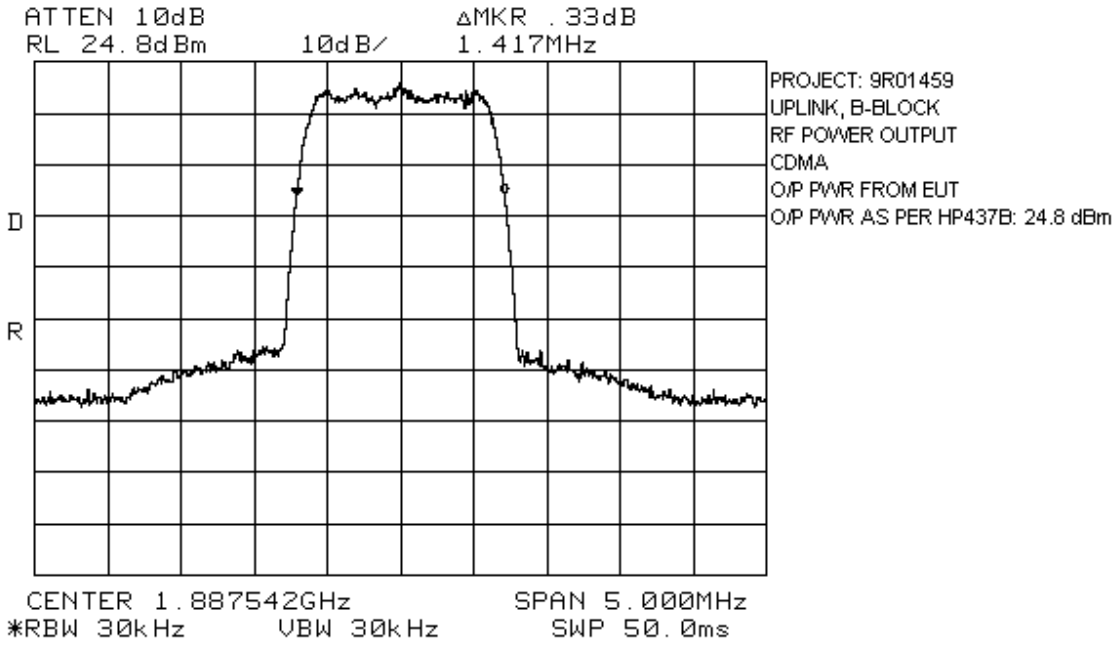
Measurement Data:

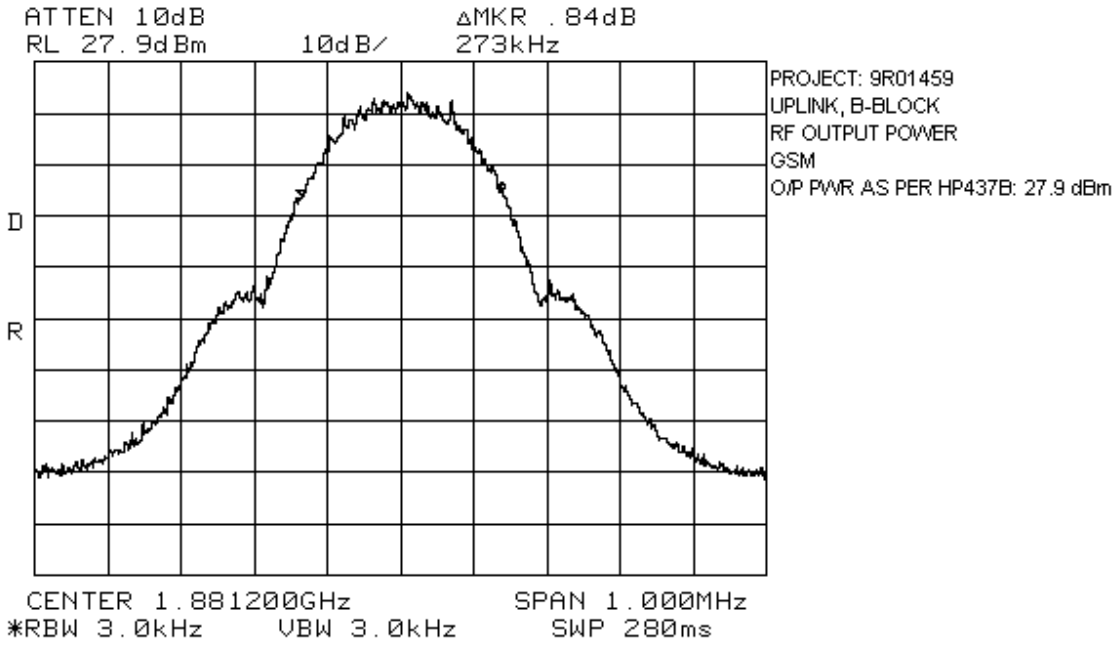
	Modulation Type	Per Channel Output Power (dBm)	Composite Output Power (dBm)
Uplink	CDMA	21.8	24.8
Downlink	CDMA	20.0	23.0
Uplink	GSM	23.1	26.1
Downlink	GSM	23.1	26.1
Uplink	TDMA	22.4	25.4
Downlink	TDMA	22.3	25.3

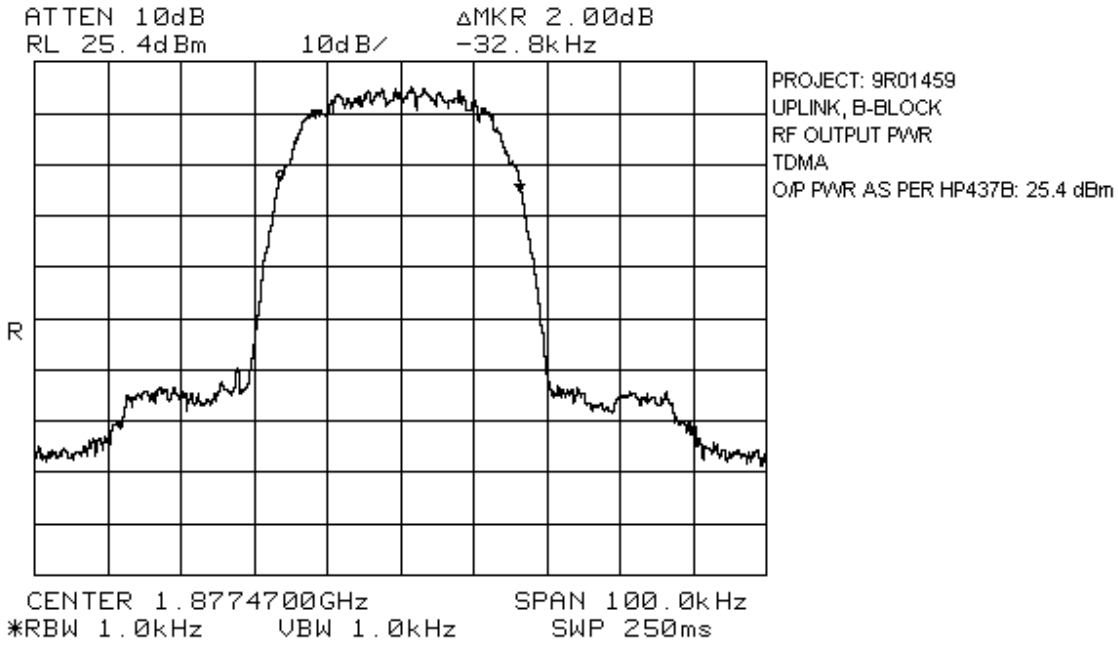

ATTEN 10dB
RL 24.8dBm
10dB/
ΔMKR 1.67dB
1.417MHz
R
PROJECT: 9R01459
UPLINK, A/D-BLOCK
RF POWER OUTPUT
CDMA
O/P PWR AS PER HP437B: 24.8 dBm
CENTER 1.860042GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

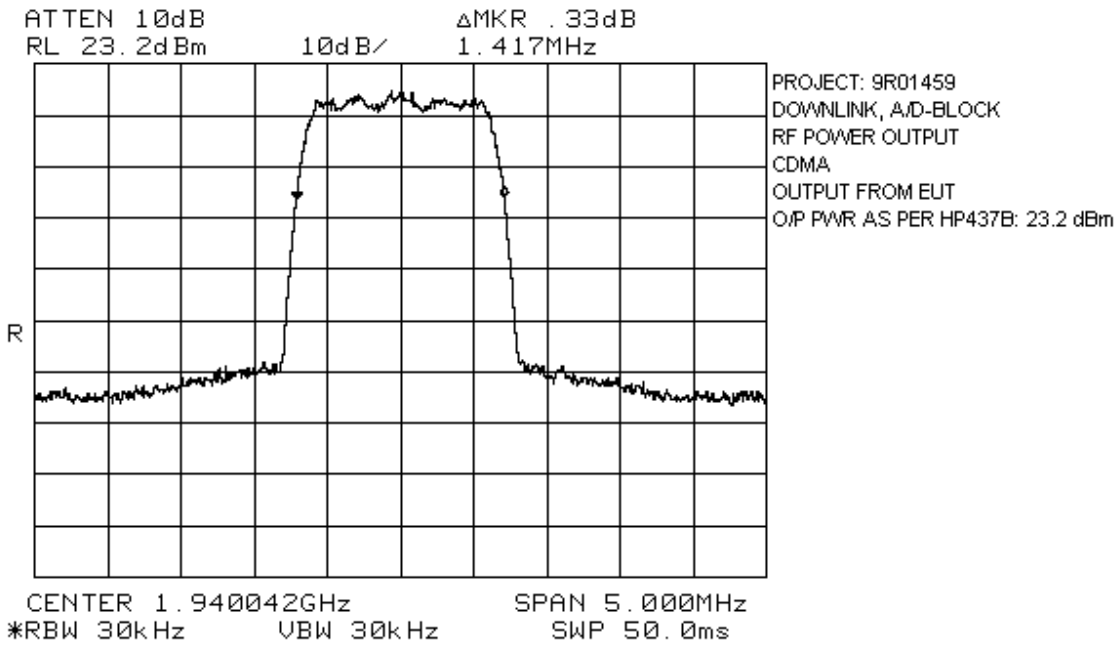

ATTEN 10dB
RL 28.1dBm
10dB/
ΔMKR 0dB
278kHz
R
PROJECT: 9R01459
UPLINK, A/D-BLOCK
RF POWER OUTPUT
GSM
O/P PWR AS PER HP437B: 28.1 dBm
CENTER 1.859902GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

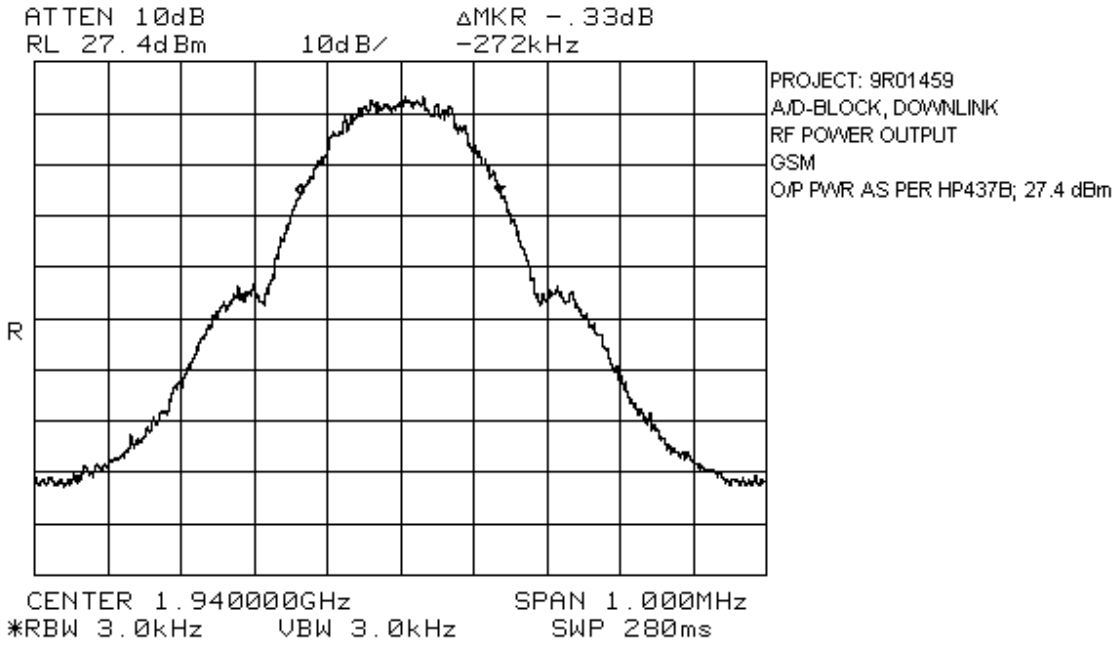

ATTEN 10dB
RL 26.1dBm
10dB/
ΔMKR .34dB
-33.7kHz
PROJECT:9R01459
UPLINK, A/D-BLOCK
RF POWER OUTPUT
TDMA
O/P PWR AS PE RHP437B: 26.1 dBm
R
CENTER 1.8598998GHz
SPAN 100.0kHz
*RBW 1.0kHz
VBW 1.0kHz
SWP 250ms

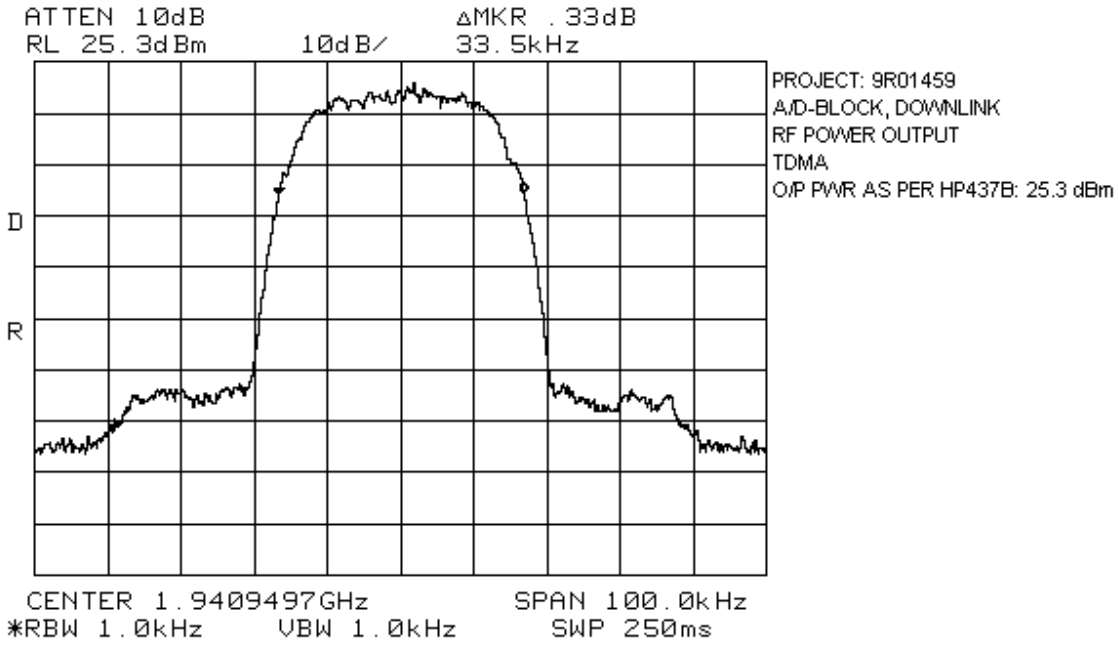

ATTEN 10dB
RL 24.8dBm
10dB/
ΔMKR .33dB
1.417MHz
PROJECT: 9R01459
UPLINK, B-BLOCK
RF POWER OUTPUT
CDMA
O/P PWR FROM EUT
O/P PWR AS PER HP437B: 24.8 dBm
D
R
CENTER 1.887542GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

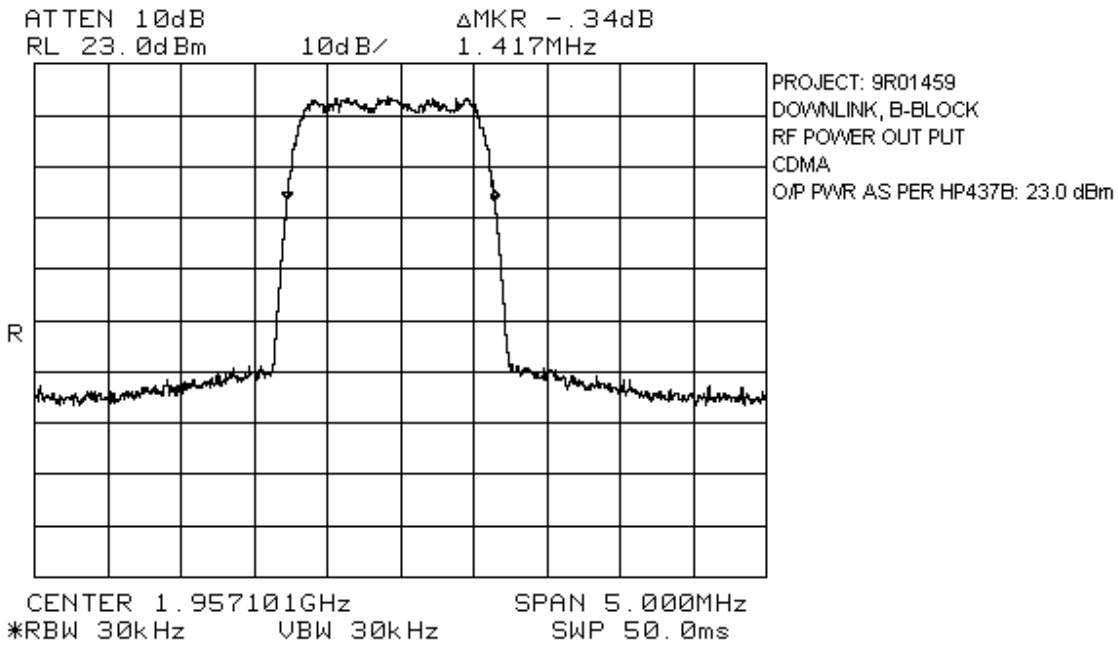

ATTEN 10dB
RL 27.9dBm
10dB/
ΔMKR .84dB
273kHz
PROJECT: 9R01459
UPLINK, B-BLOCK
RF OUTPUT POWER
GSM
O/P PWR AS PER HP437B: 27.9 dBm
D
R
CENTER 1.881200GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

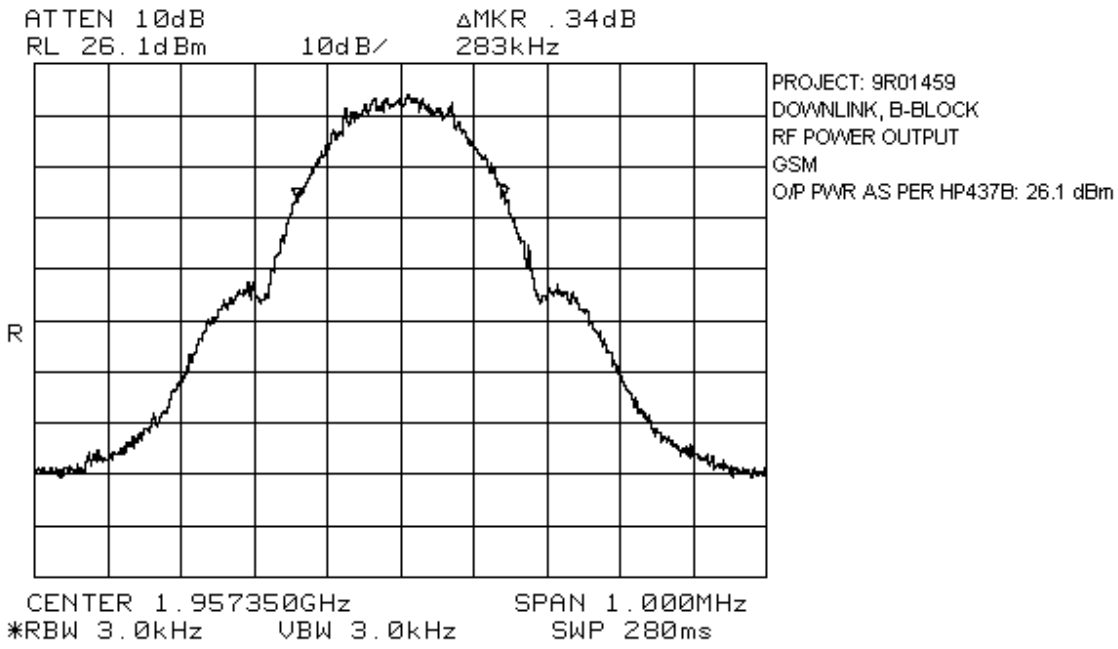

ATTEN 10dB
RL 25.4dBm
10dB/
ΔMKR 2.00dB
-32.8kHz
R
PROJECT: 9R01459
UPLINK, B-BLOCK
RF OUTPUT PWR
TDMA
O/P PWR AS PER HP437B: 25.4 dBm
CENTER 1.8774700GHz
SPAN 100.0kHz
*RBW 1.0kHz
VBW 1.0kHz
SWP 250ms

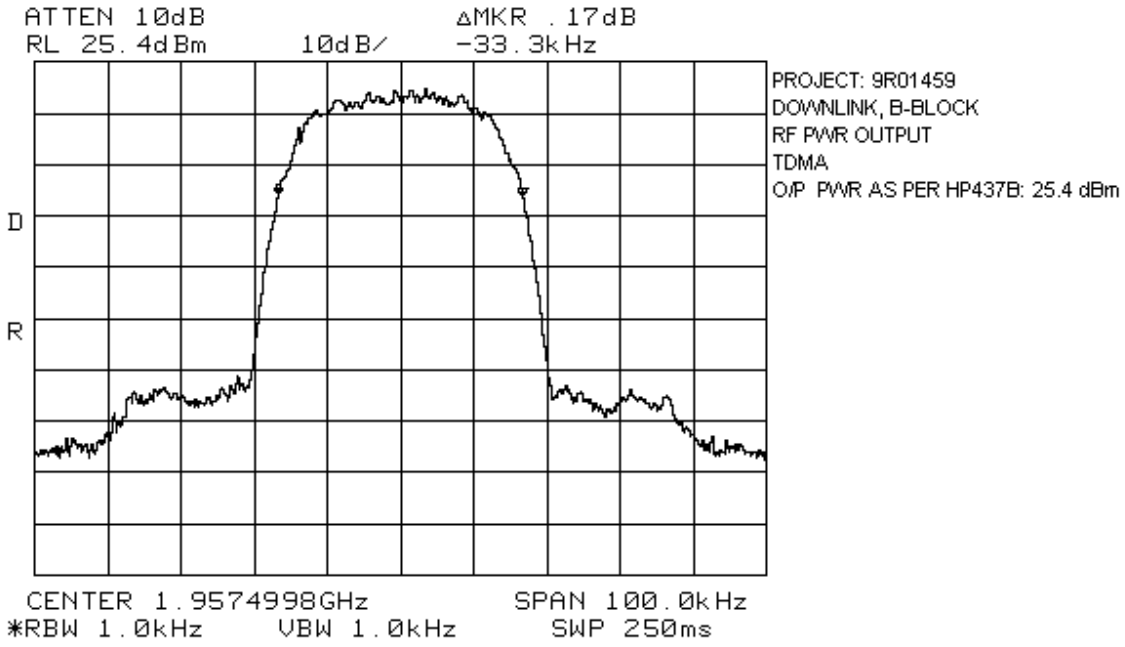

ATTEN 10dB
RL 23.2dBm
10dB/
ΔMKR .33dB
1.417MHz
R
PROJECT: 9R01459
DOWNLINK, A/D-BLOCK
RF POWER OUTPUT
CDMA
OUTPUT FROM EUT
O/P PWR AS PER HP437B: 23.2 dBm
CENTER 1.940042GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms


ATTEN 10dB
RL 27.4dBm
10dB/
ΔMKR -.33dB
-272kHz
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
RF POWER OUTPUT
GSM
O/P PWR AS PER HP437B; 27.4 dBm
R
CENTER 1.940000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms


ATTEN 10dB
RL 25.3dBm
10dB/
ΔMKR .33dB
33.5kHz
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
RF POWER OUTPUT
TDMA
O/P PWR AS PER HP437B: 25.3 dBm
D
R
CENTER 1.9409497GHz
SPAN 100.0kHz
*RBW 1.0kHz
VBW 1.0kHz
SWP 250ms


ATTEN 10dB
RL 23.0dBm
10dB/
ΔMKR -.34dB
1.417MHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
RF POWER OUT PUT
CDMA
O/P PWR AS PER HP437B: 23.0 dBm
R
CENTER 1.957101GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms


ATTEN 10dB
RL 26.1dBm
10dB/
ΔMKR .34dB
283kHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
RF POWER OUTPUT
GSM
O/P PWR AS PER HP437B: 26.1 dBm
R
CENTER 1.957350GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

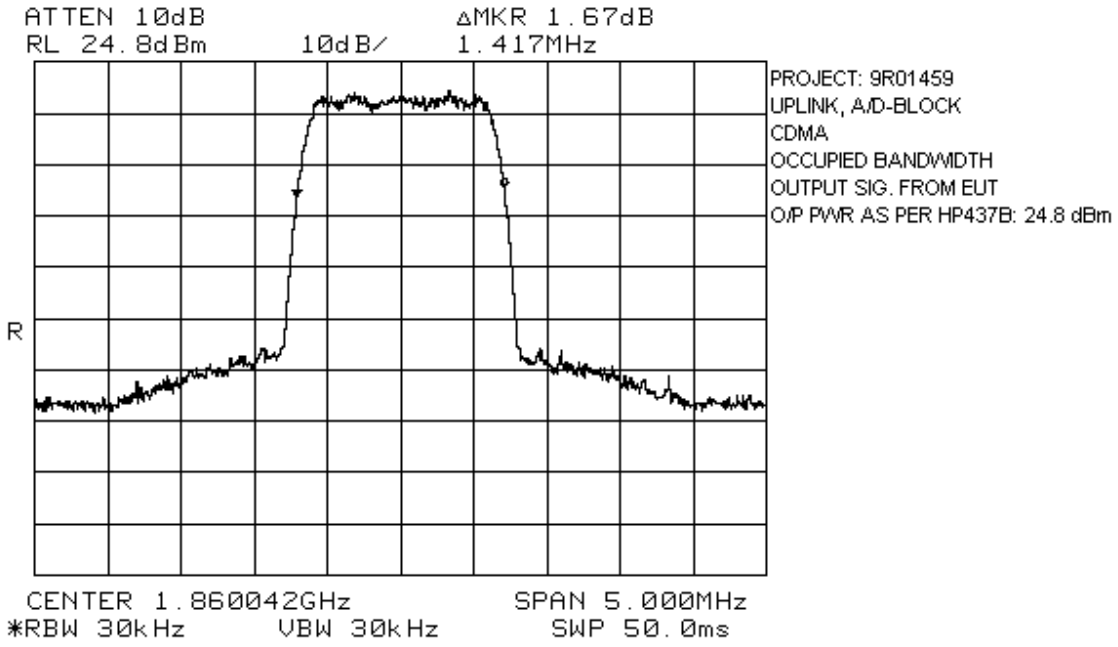

ATTEN 10dB
RL 25.4dBm
10dB/
ΔMKR .17dB
-33.3kHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
RF PWR OUTPUT
TDMA
O/P PWR AS PER HP437B: 25.4 dBm
D
R
CENTER 1.9574998GHz
SPAN 100.0kHz
*RBW 1.0kHz
VBW 1.0kHz
SWP 250ms

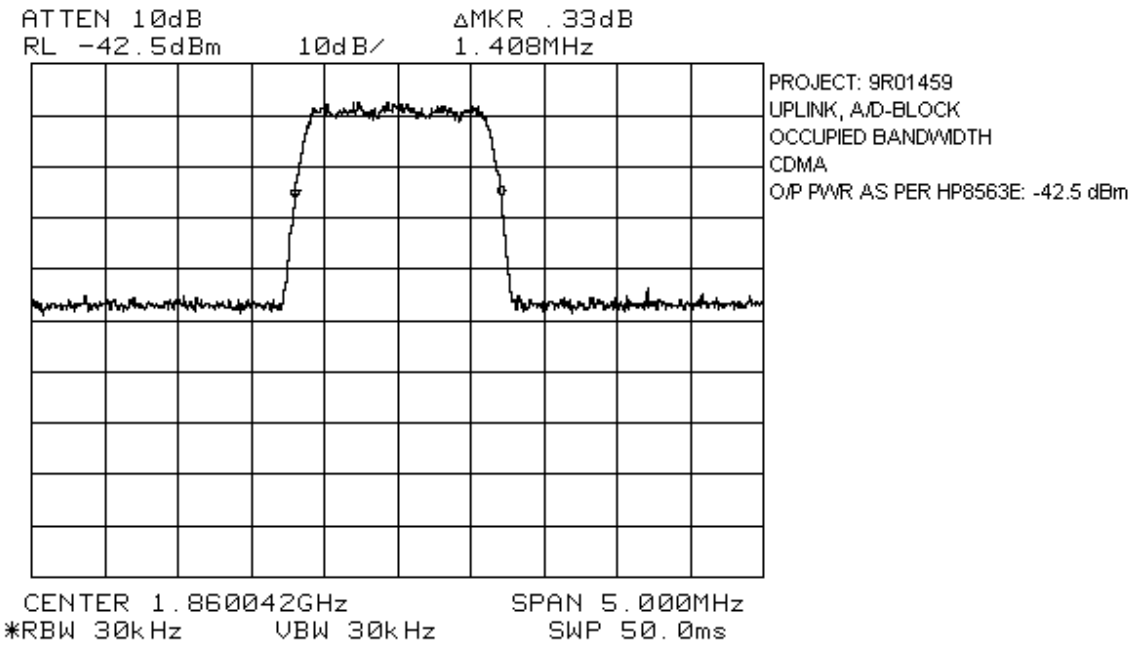
Section 4. Occupied Bandwidth

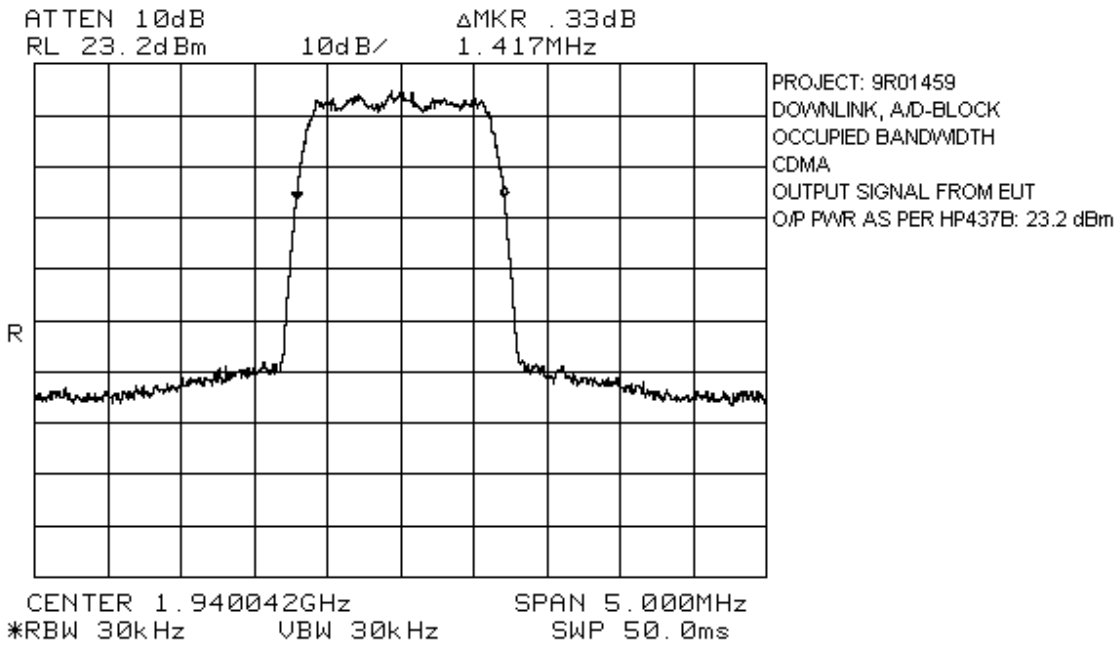
NAME OF TEST: Occupied Bandwidth (CDMA)	PARA. NO.: 2.917(c)
TESTED BY: Kevin Carr	DATE: April 21, 1999

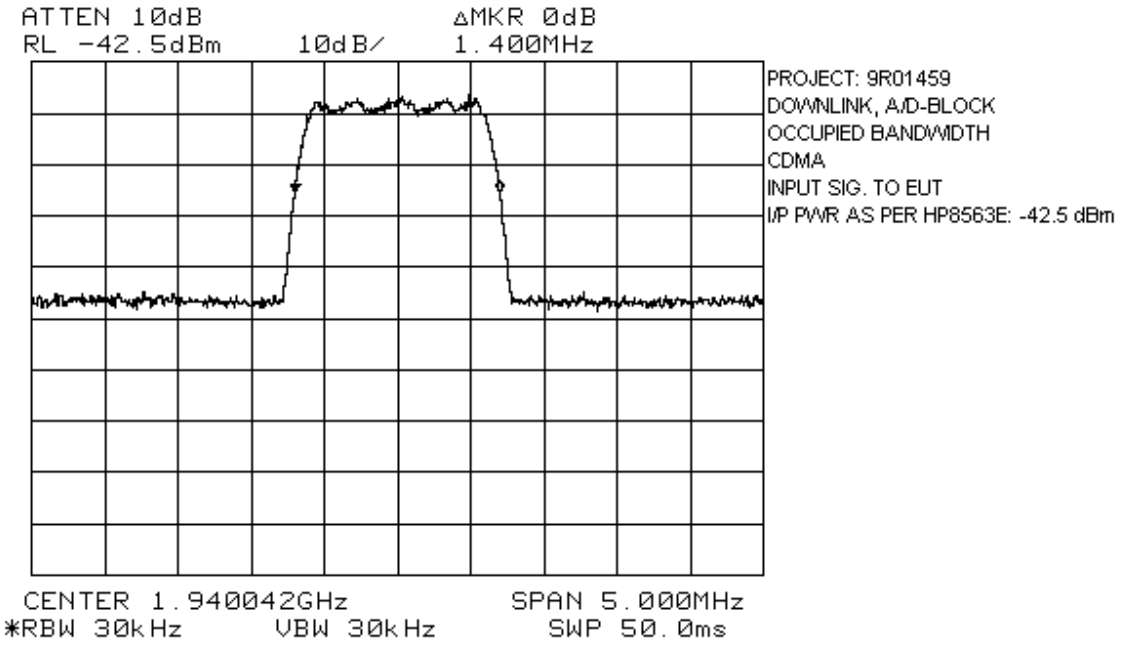
Test Results: Complies.

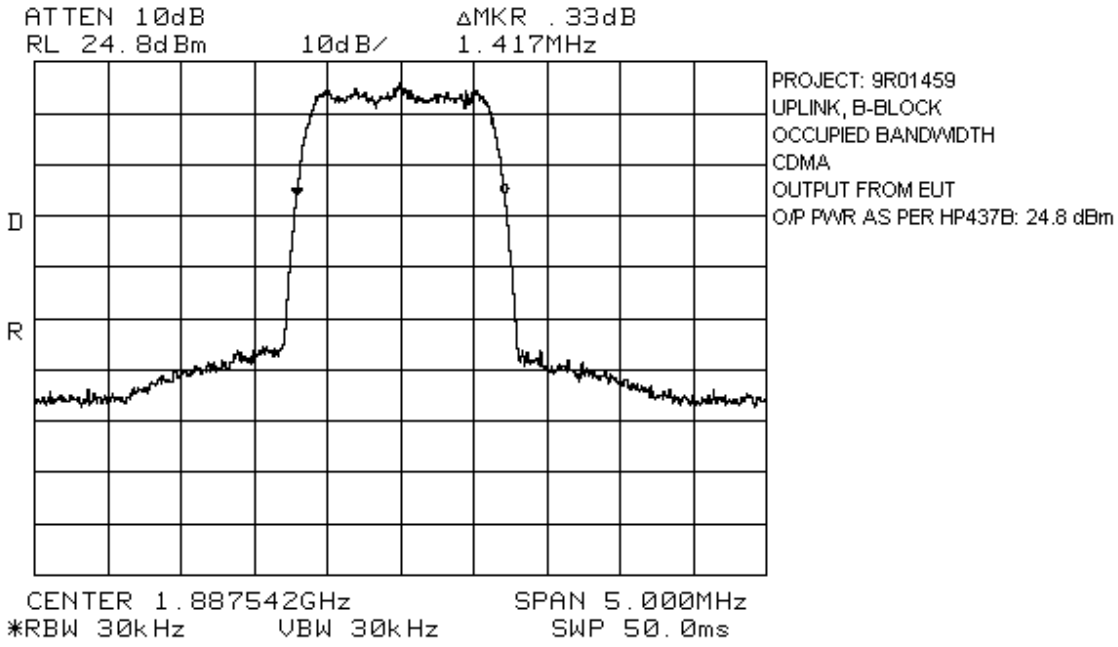
Test Data: See attached graph(s).

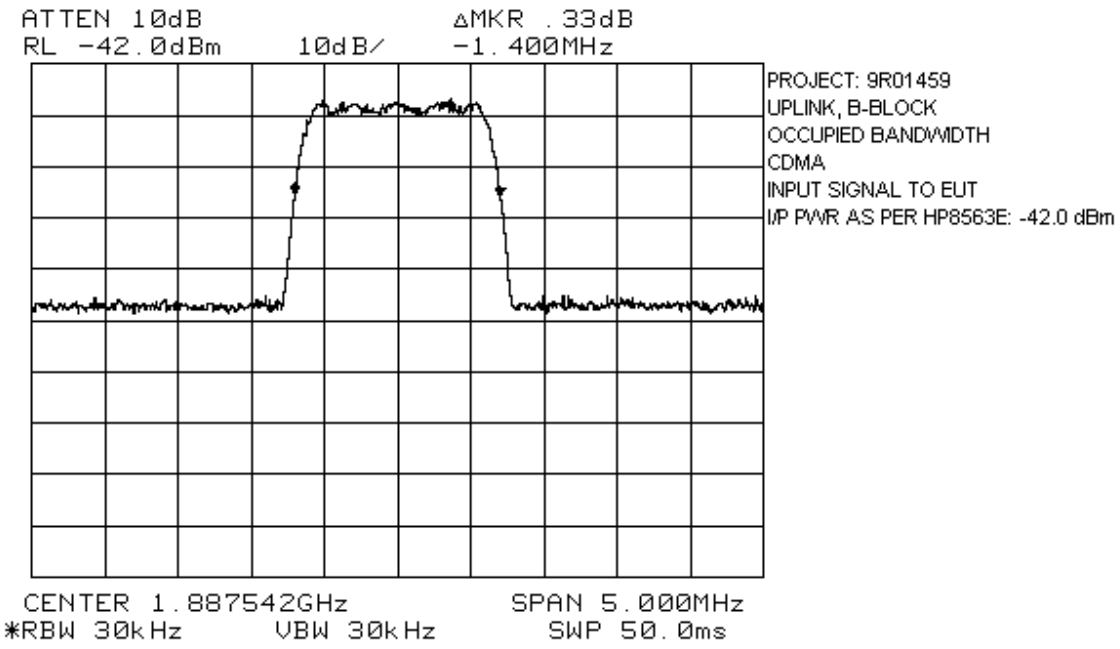

ATTEN 10dB
RL 24.8dBm
10dB/
ΔMKR 1.67dB
1.417MHz
R
PROJECT: 9R01459
UPLINK, A/D-BLOCK
CDMA
OCCUPIED BANDWIDTH
OUTPUT SIG. FROM EUT
O/P PWR AS PER HP437B: 24.8 dBm
CENTER 1.860042GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

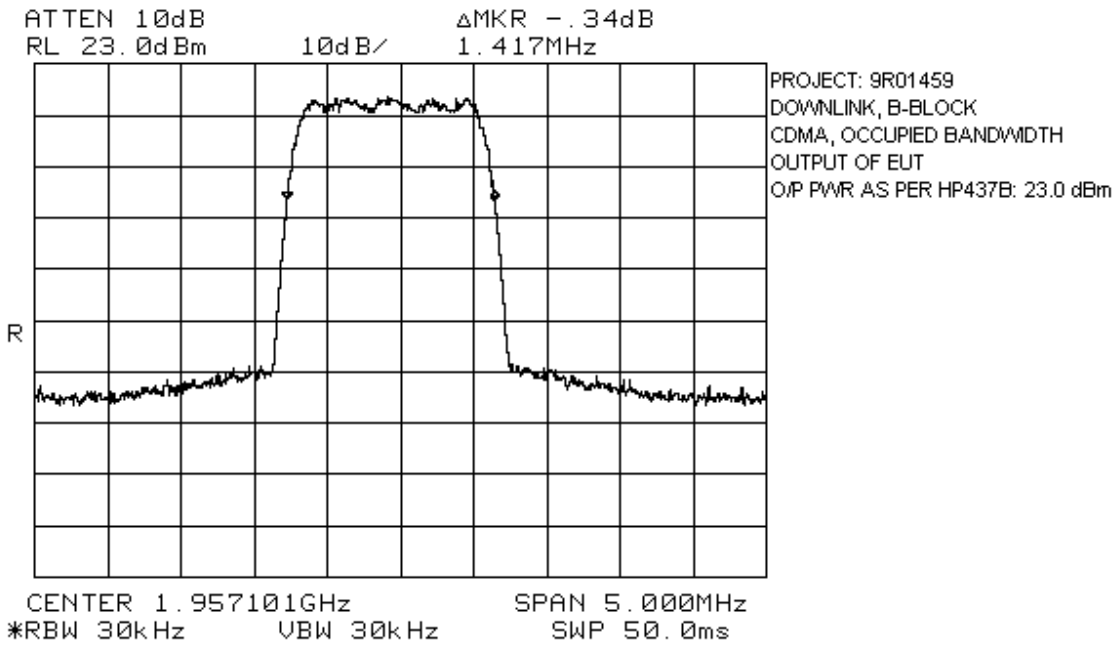

ATTEN 10dB
RL -42.5dBm
10dB/
ΔMKR .33dB
1.408MHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
OCCUPIED BANDWIDTH
CDMA
O/P PWR AS PER HP8563E: -42.5 dBm
CENTER 1.860042GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

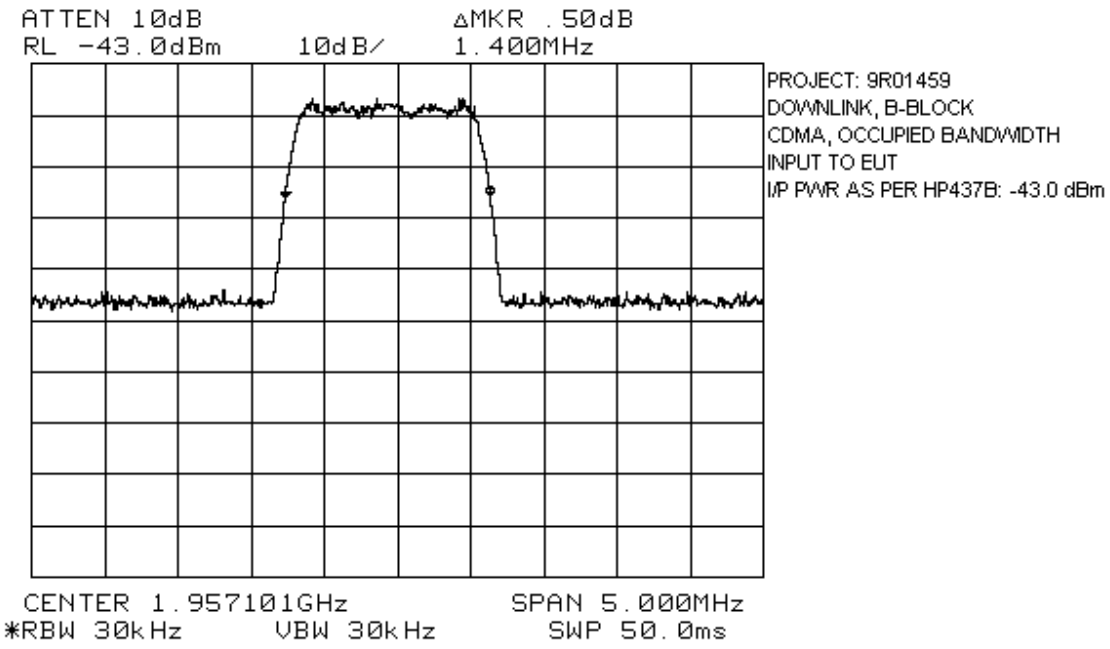

ATTEN 10dB
RL 23.2dBm
10dB/
ΔMKR .33dB
1.417MHz
R
PROJECT: 9R01459
DOWNLINK, A/D-BLOCK
OCCUPIED BANDWIDTH
CDMA
OUTPUT SIGNAL FROM EUT
O/P PWR AS PER HP437B: 23.2 dBm
CENTER 1.940042GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms


ATTEN 10dB
RL -42.5dBm
10dB/
ΔMKR 0dB
1.400MHz
PROJECT: 9R01459
DOWNLINK, A/D-BLOCK
OCCUPIED BANDWIDTH
CDMA
INPUT SIG. TO EUT
I/P PWR AS PER HP8563E: -42.5 dBm
CENTER 1.940042GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms


ATTEN 10dB
RL 24.8dBm
10dB/
ΔMKR .33dB
1.417MHz
PROJECT: 9R01459
UPLINK, B-BLOCK
OCCUPIED BANDWIDTH
CDMA
OUTPUT FROM EUT
O/P PWR AS PER HP437B: 24.8 dBm
D
R
CENTER 1.887542GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms


ATTEN 10dB
RL -42.0dBm
10dB/
ΔMKR .33dB
-1.400MHz
PROJECT: 9R01459
UPLINK, B-BLOCK
OCCUPIED BANDWIDTH
CDMA
INPUT SIGNAL TO EUT
I/P PWR AS PER HP8563E: -42.0 dBm
CENTER 1.887542GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

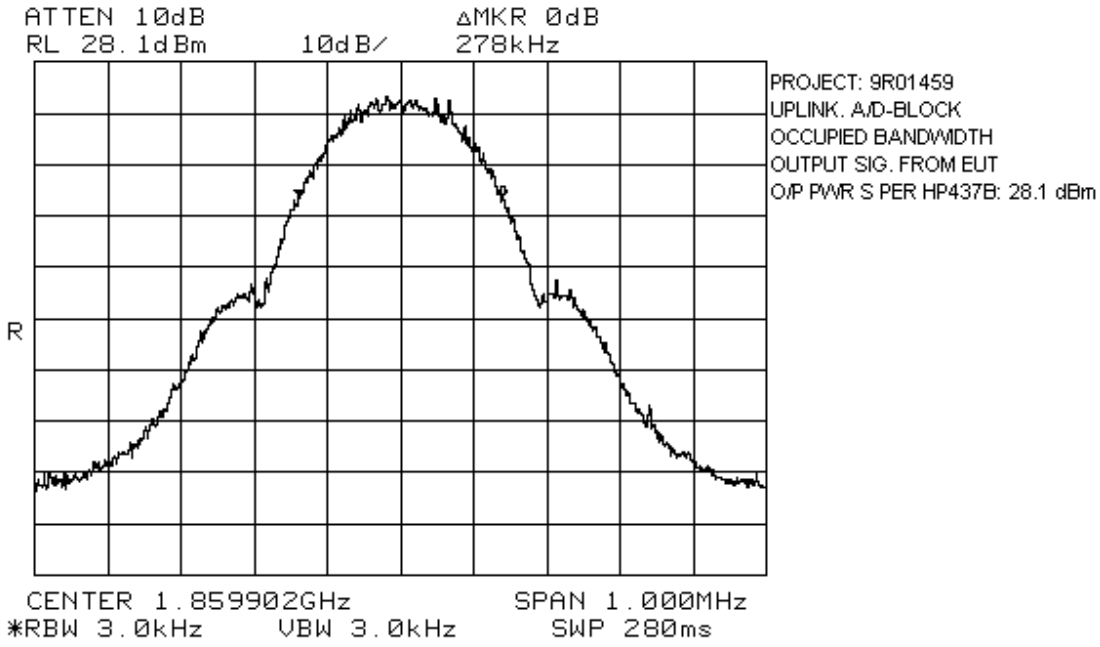

ATTEN 10dB
RL 23.0dBm
10dB/
ΔMKR -.34dB
1.417MHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
CDMA, OCCUPIED BANDWIDTH
OUTPUT OF EUT
O/P PWR AS PER HP437B: 23.0 dBm
R
CENTER 1.957101GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

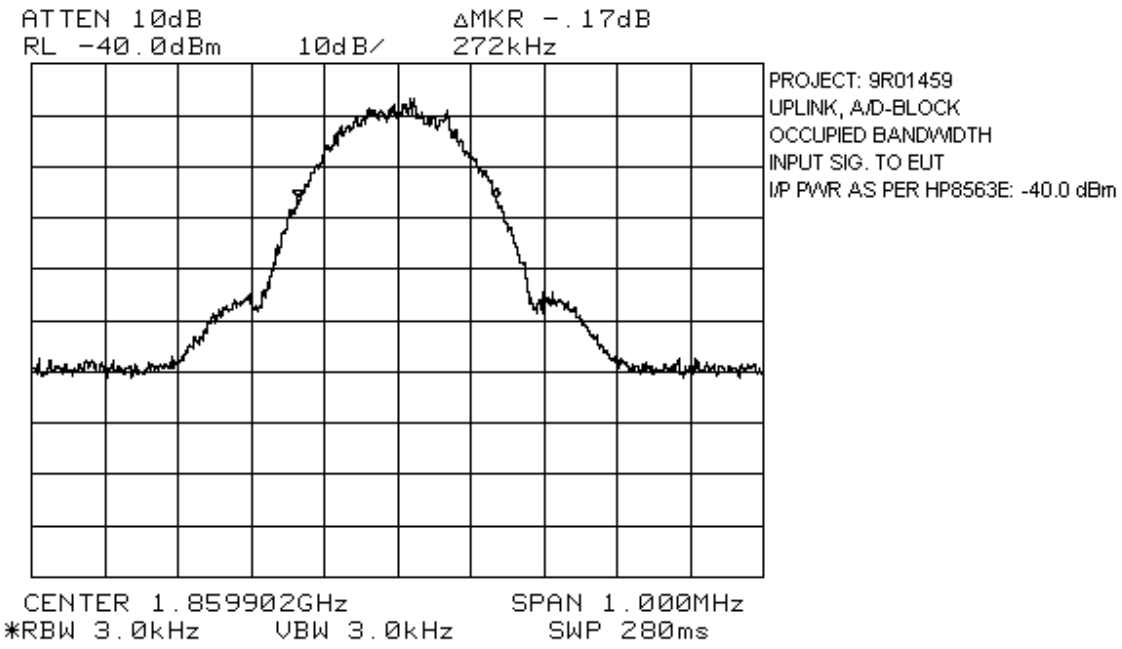

ATTEN 10dB
RL -43.0dBm
10dB/
ΔMKR .50dB
1.400MHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
CDMA, OCCUPIED BANDWIDTH
INPUT TO EUT
I/P PWR AS PER HP437B: -43.0 dBm
CENTER 1.957101GHz
SPAN 5.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

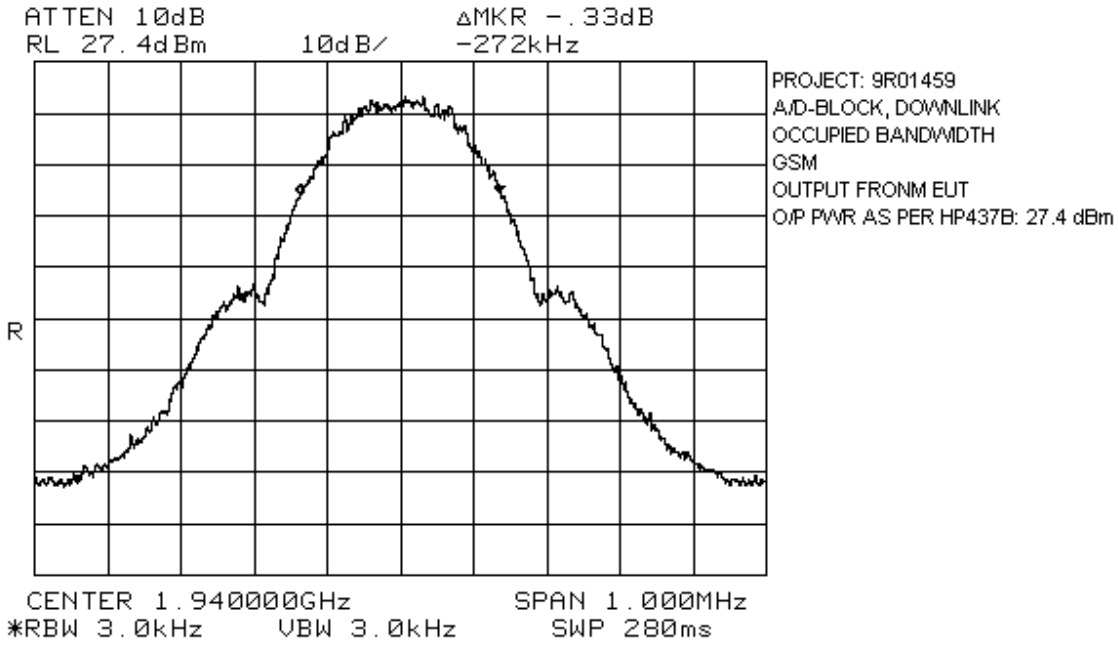
NAME OF TEST: Occupied Bandwidth (GSM)	PARA. NO.: 2.917(c)
TESTED BY: Kevin Carr	DATE: April 22, 1999

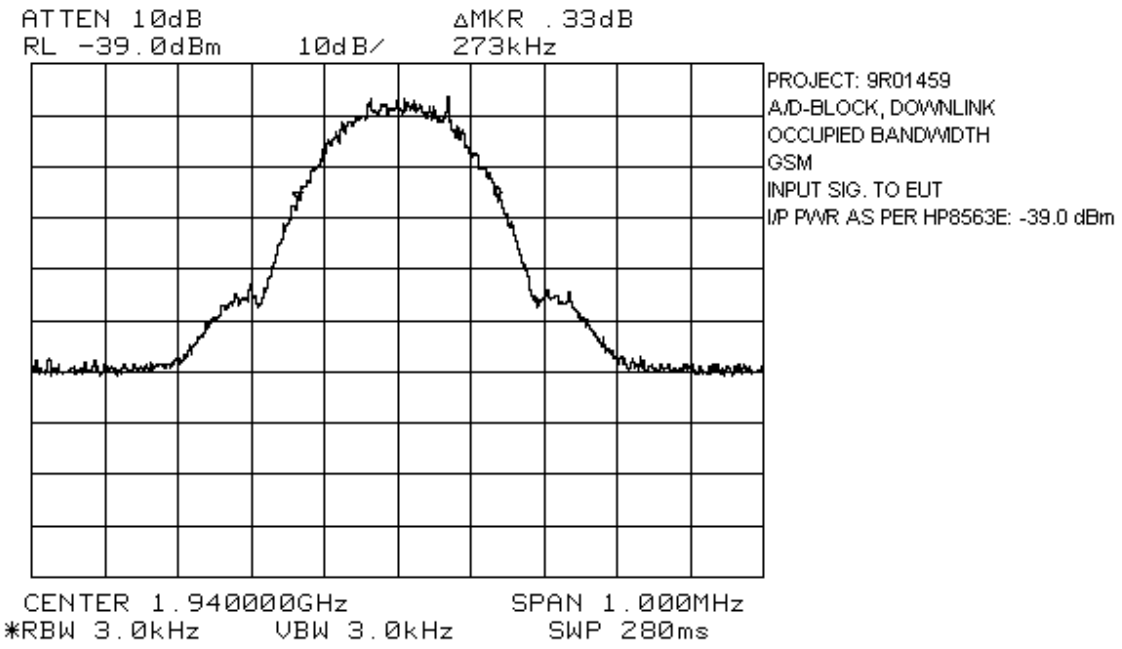
Test Results: Complies.

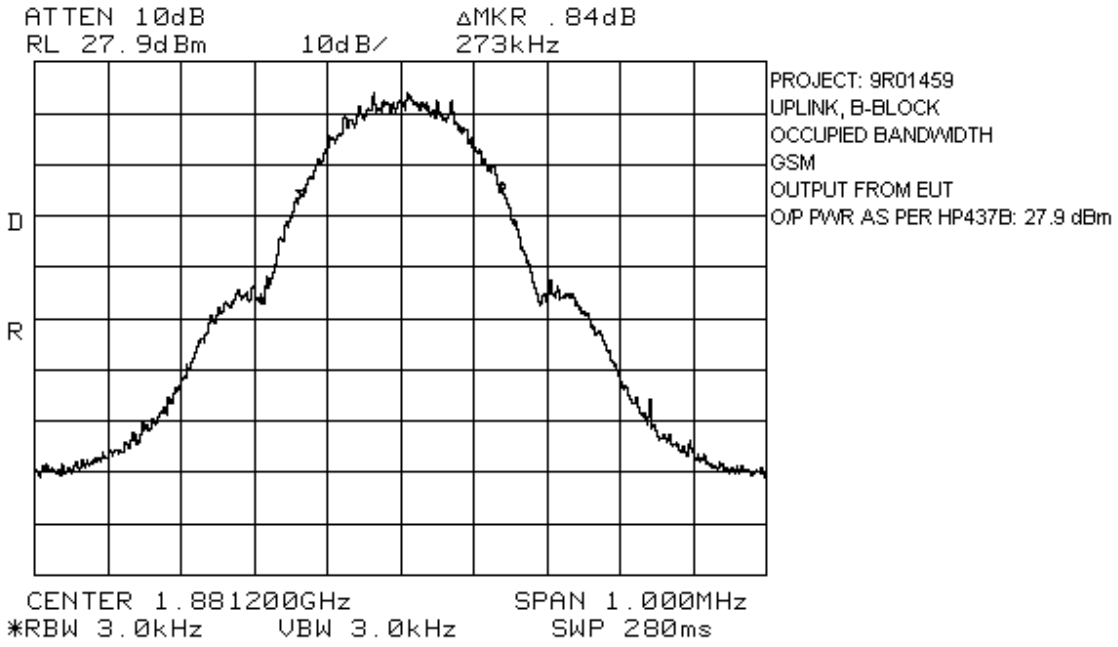
Test Data: See attached graph(s).

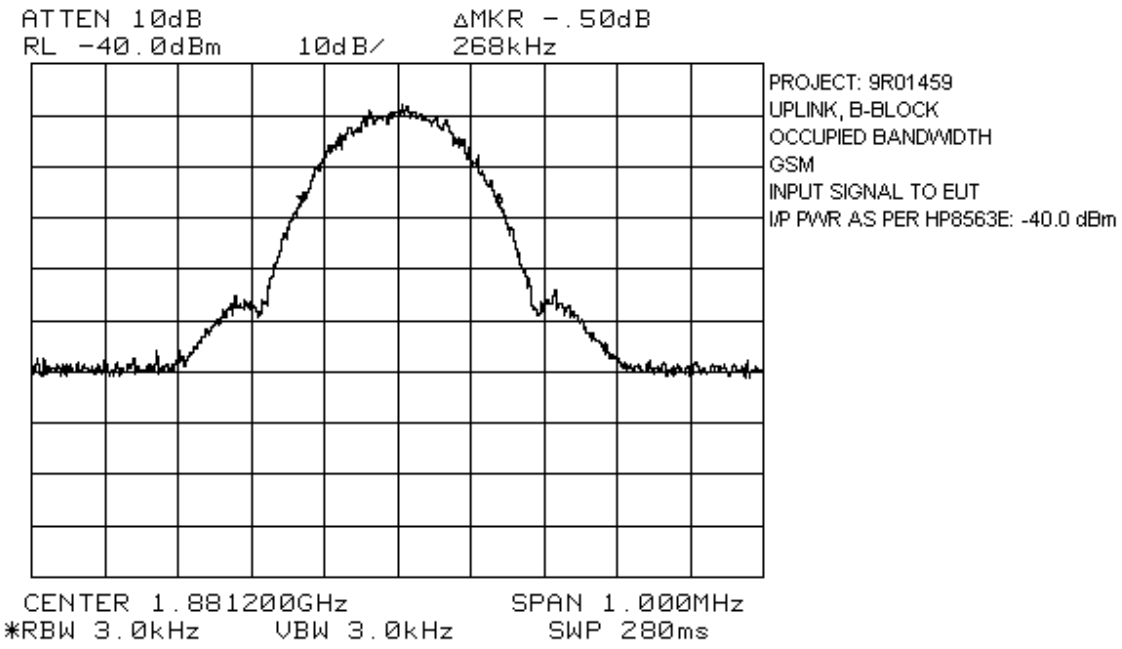

ATTEN 10dB
RL 28.1dBm
10dB/
ΔMKR 0dB
278kHz
PROJECT: 9R01459
UPLINK. A/D-BLOCK
OCCUPIED BANDWIDTH
OUTPUT SIG. FROM EUT
O/P PWR S PER HP437B: 28.1 dBm
R
CENTER 1.859902GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

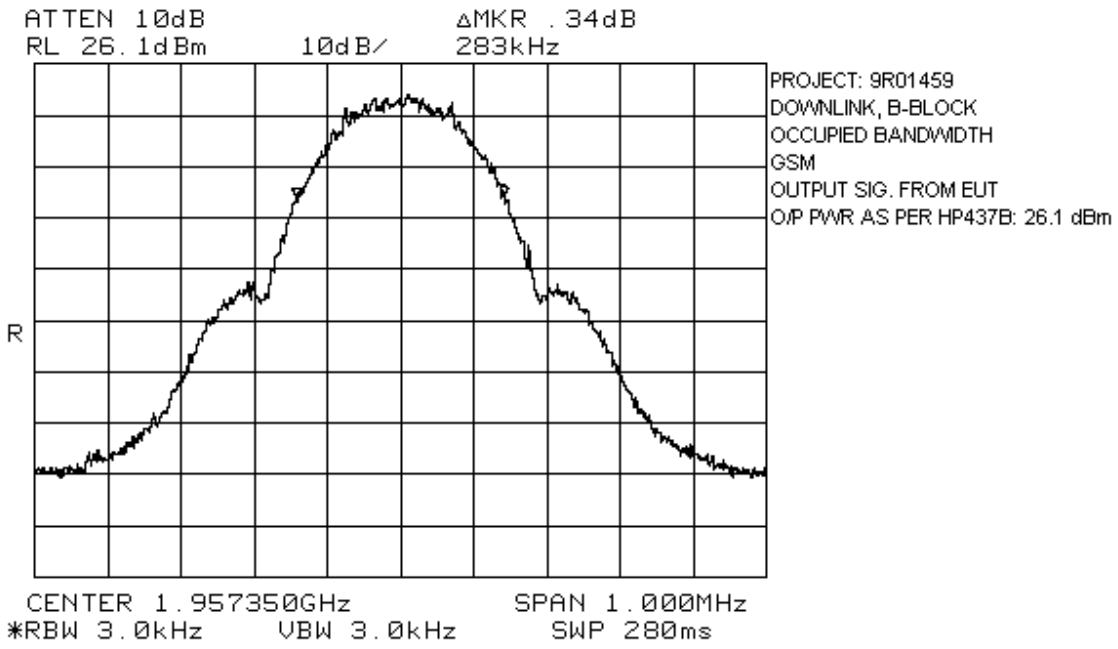

ATTEN 10dB
RL -40.0dBm
10dB/
ΔMKR -.17dB
272kHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
OCCUPIED BANDWIDTH
INPUT SIG. TO EUT
I/P PWR AS PER HP8563E: -40.0 dBm
CENTER 1.859902GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

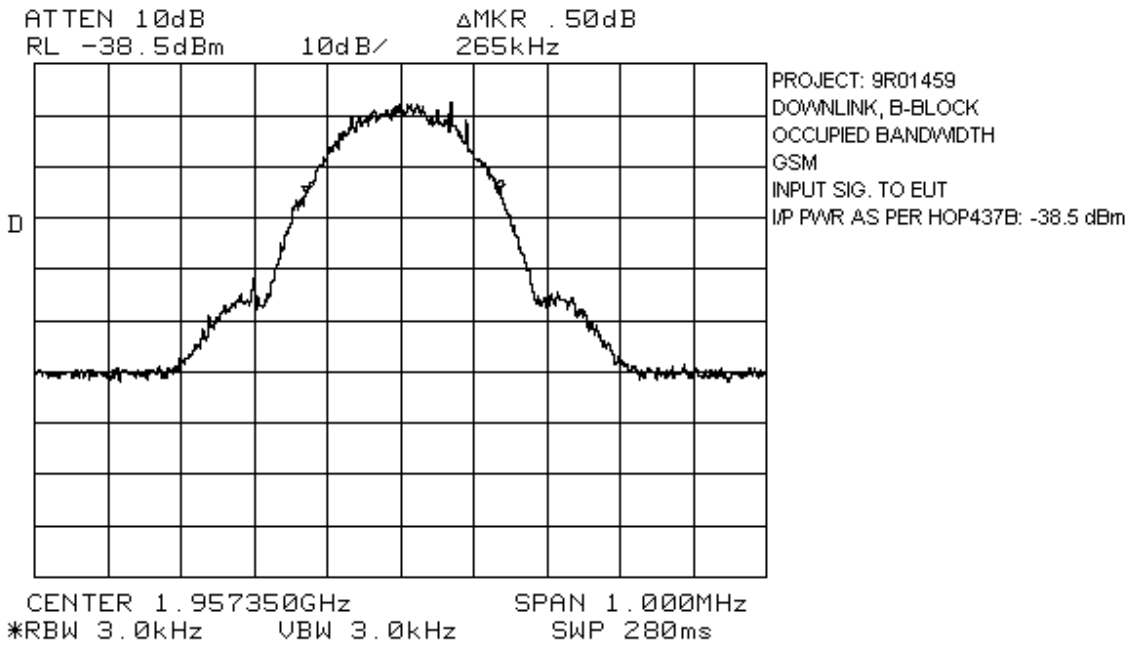

ATTEN 10dB
RL 27.4dBm
10dB/
ΔMKR -.33dB
-272kHz
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
OCCUPIED BANDWIDTH
GSM
OUTPUT FRONM EUT
O/P PWR AS PER HP437B: 27.4 dBm
R
CENTER 1.940000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms


ATTEN 10dB
RL -39.0dBm
10dB/
ΔMKR .33dB
273kHz
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
OCCUPIED BANDWIDTH
GSM
INPUT SIG. TO EUT
I/P PWR AS PER HP8563E: -39.0 dBm
CENTER 1.940000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms


ATTEN 10dB
RL 27.9dBm
10dB/
ΔMKR .84dB
273kHz
PROJECT: 9R01459
UPLINK, B-BLOCK
OCCUPIED BANDWIDTH
GSM
OUTPUT FROM EUT
O/P PWR AS PER HP437B: 27.9 dBm
D
R
CENTER 1.881200GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms


ATTEN 10dB
RL -40.0dBm
10dB/
ΔMKR -.50dB
268kHz
PROJECT: 9R01459
UPLINK, B-BLOCK
OCCUPIED BANDWIDTH
GSM
INPUT SIGNAL TO EUT
I/P PWR AS PER HP8563E: -40.0 dBm
CENTER 1.881200GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

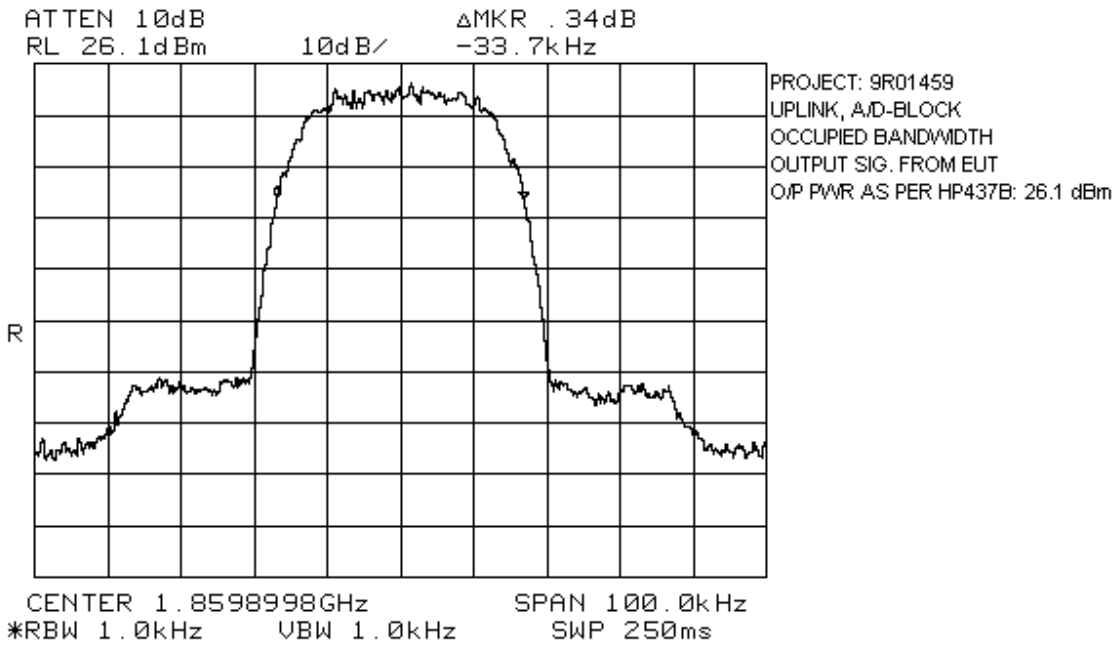

ATTEN 10dB
RL 26.1dBm
10dB/
ΔMKR .34dB
283kHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
OCCUPIED BANDWIDTH
GSM
OUTPUT SIG. FROM EUT
O/P PWR AS PER HP437B: 26.1 dBm
R
CENTER 1.957350GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

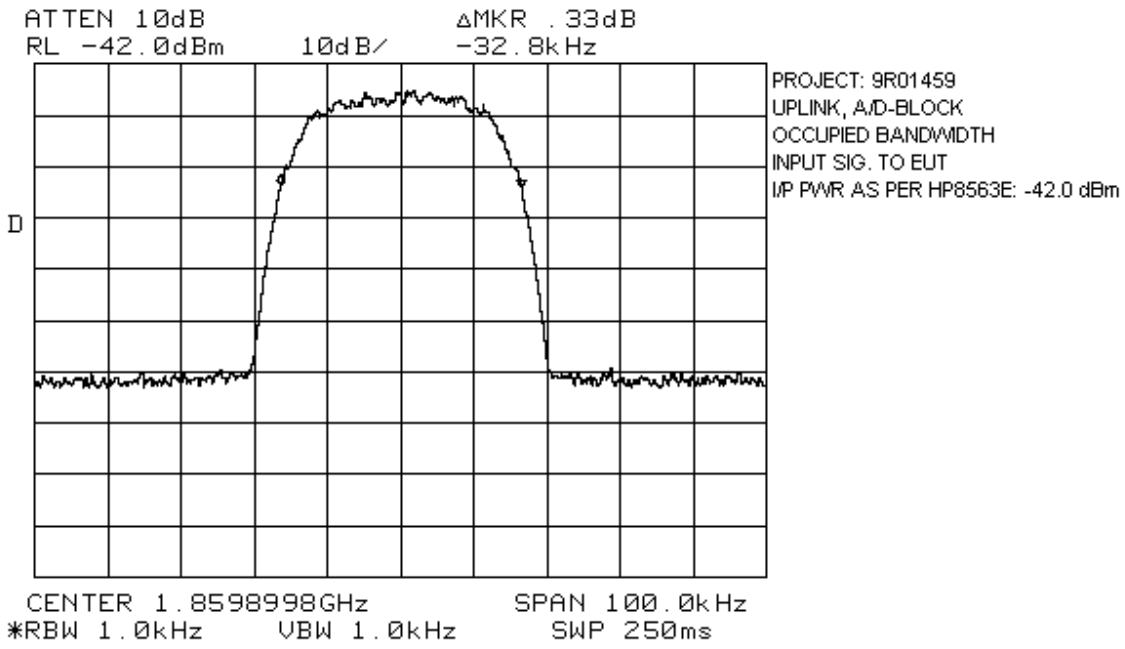

ATTEN 10dB
RL -38.5dBm
10dB/
ΔMKR .50dB
265kHz
D
PROJECT: 9R01459
DOWNLINK, B-BLOCK
OCCUPIED BANDWIDTH
GSM
INPUT SIG. TO EUT
I/P PWR AS PER HOP437B: -38.5 dBm
CENTER 1.957350GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

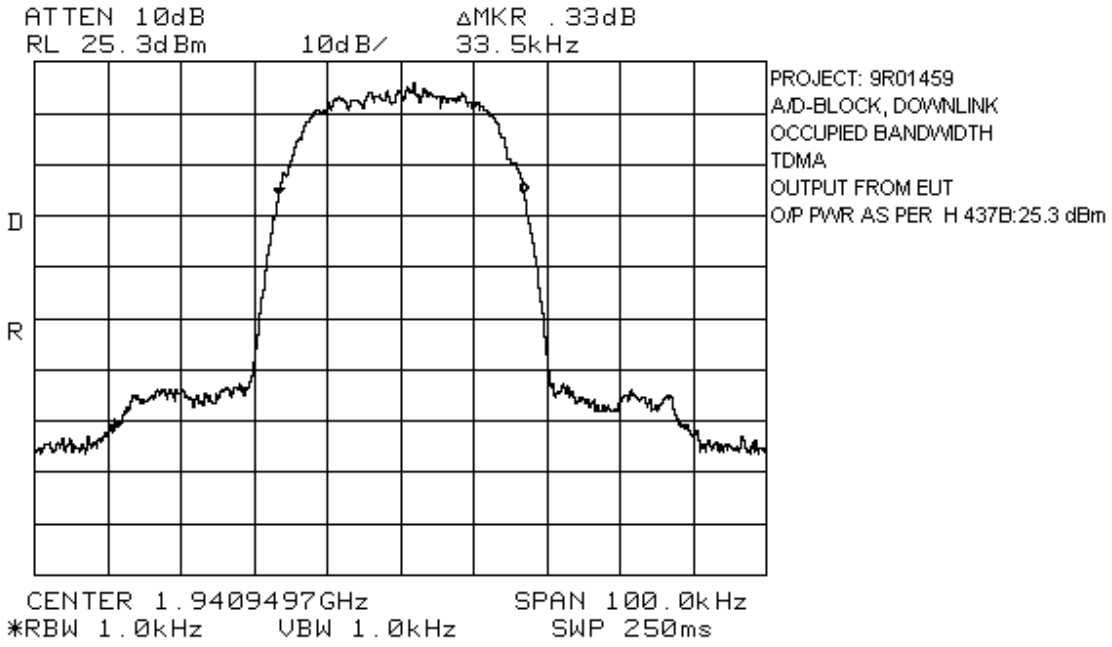
NAME OF TEST: Occupied Bandwidth (TDMA)	PARA. NO.: 2.917(c)
TESTED BY: Kevin Carr	DATE: April 22, 1999

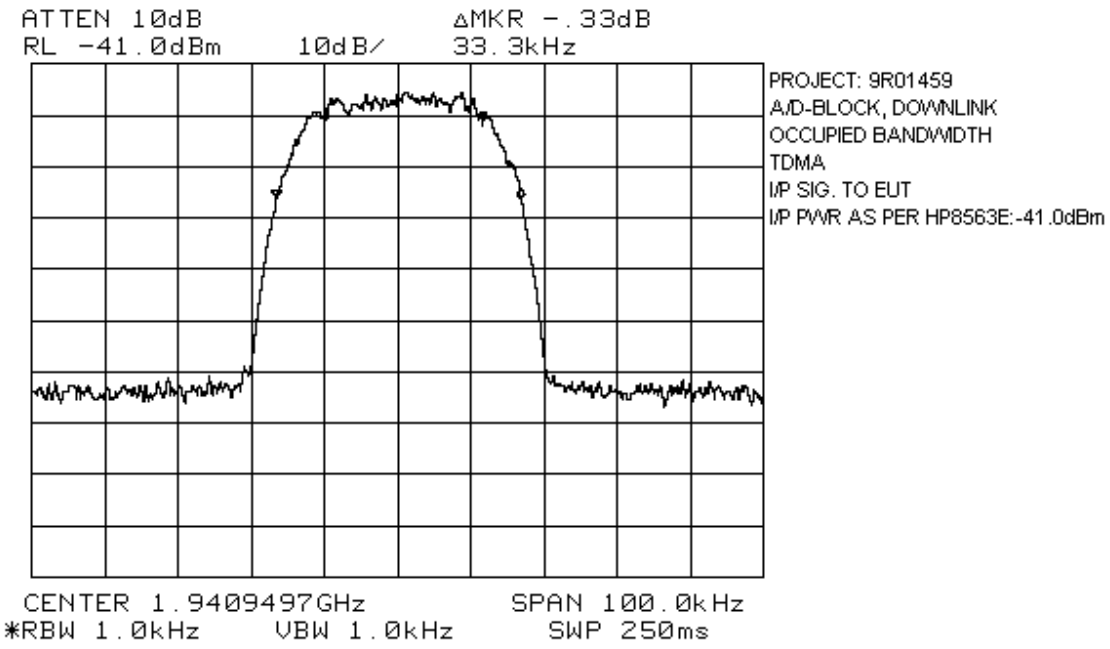
Test Results: Complies.

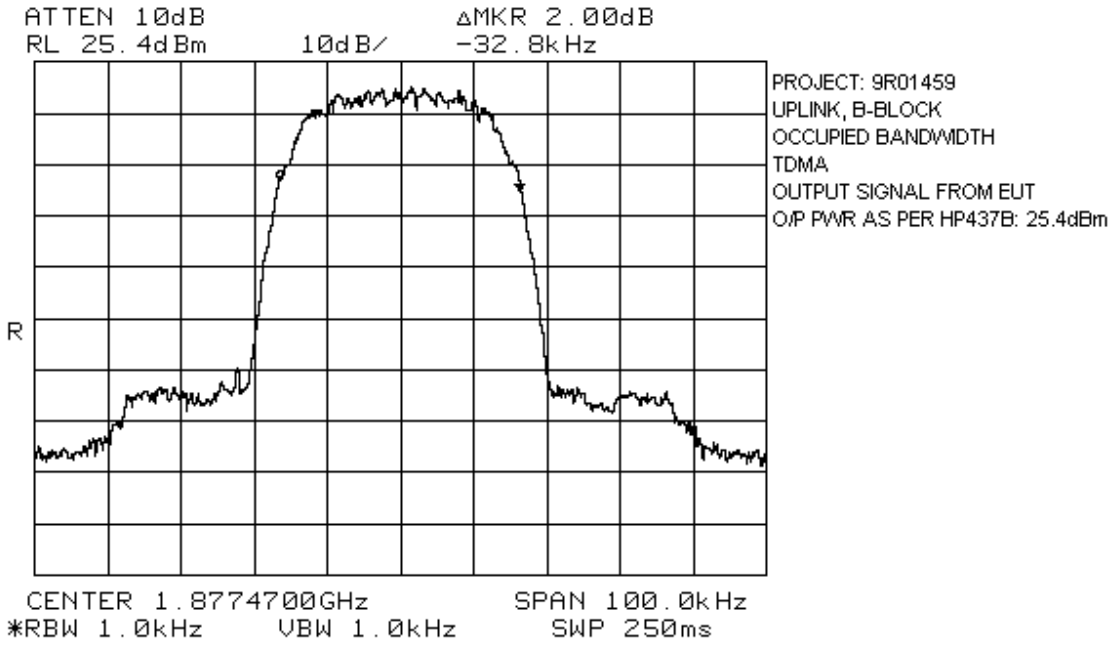
Test Data: See attached graph(s).

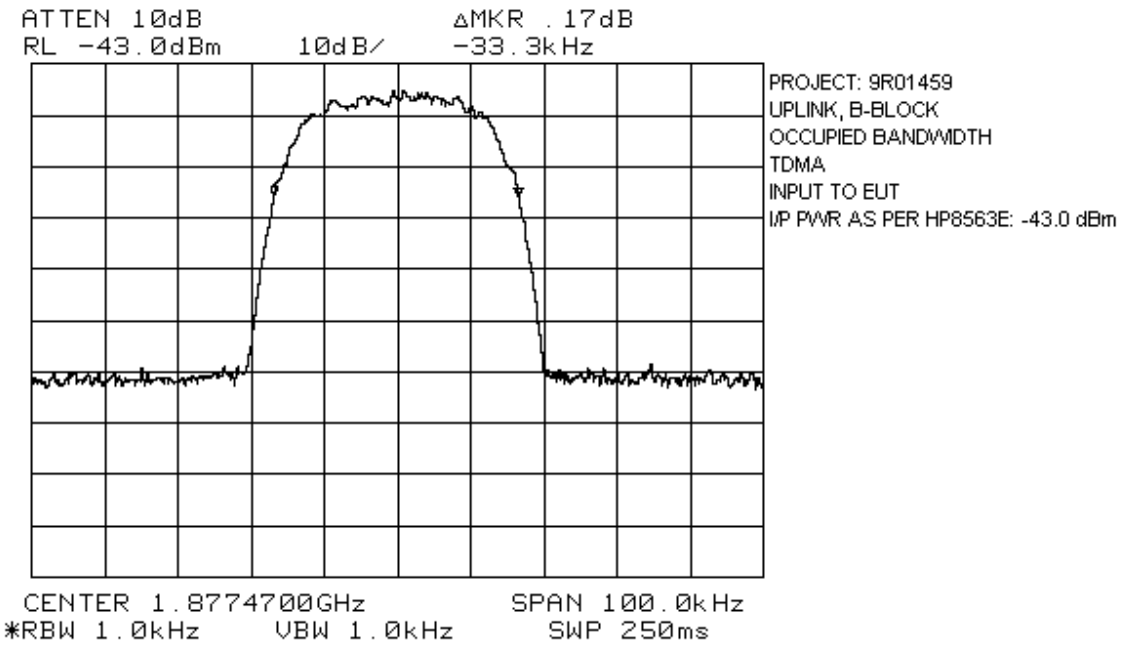

ATTEN 10dB
RL 26.1dBm
10dB/
ΔMKR .34dB
-33.7kHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
OCCUPIED BANDWIDTH
OUTPUT SIG. FROM EUT
O/P PWR AS PER HP437B: 26.1 dBm
R
CENTER 1.8598998GHz
SPAN 100.0kHz
*RBW 1.0kHz
VBW 1.0kHz
SWP 250ms

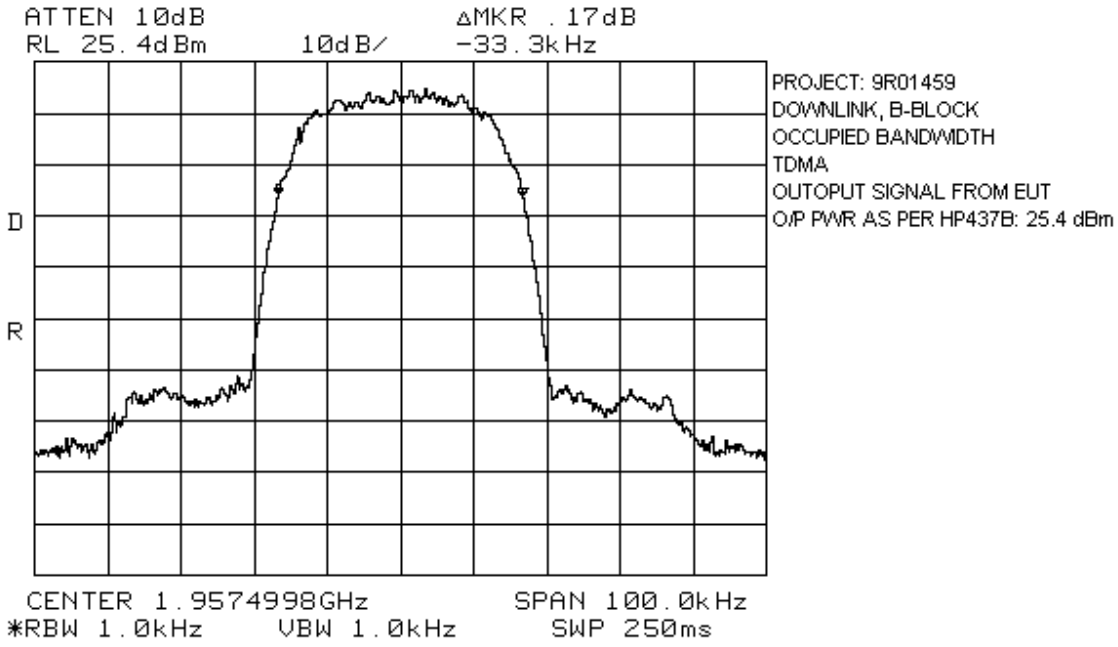

ATTEN 10dB
RL -42.0dBm
10dB/
ΔMKR .33dB
-32.8kHz
D
PROJECT: 9R01459
UPLINK, A/D-BLOCK
OCCUPIED BANDWIDTH
INPUT SIG. TO EUT
I/P PWR AS PER HP8563E: -42.0 dBm
CENTER 1.8598998GHz
SPAN 100.0kHz
*RBW 1.0kHz
VBW 1.0kHz
SWP 250ms

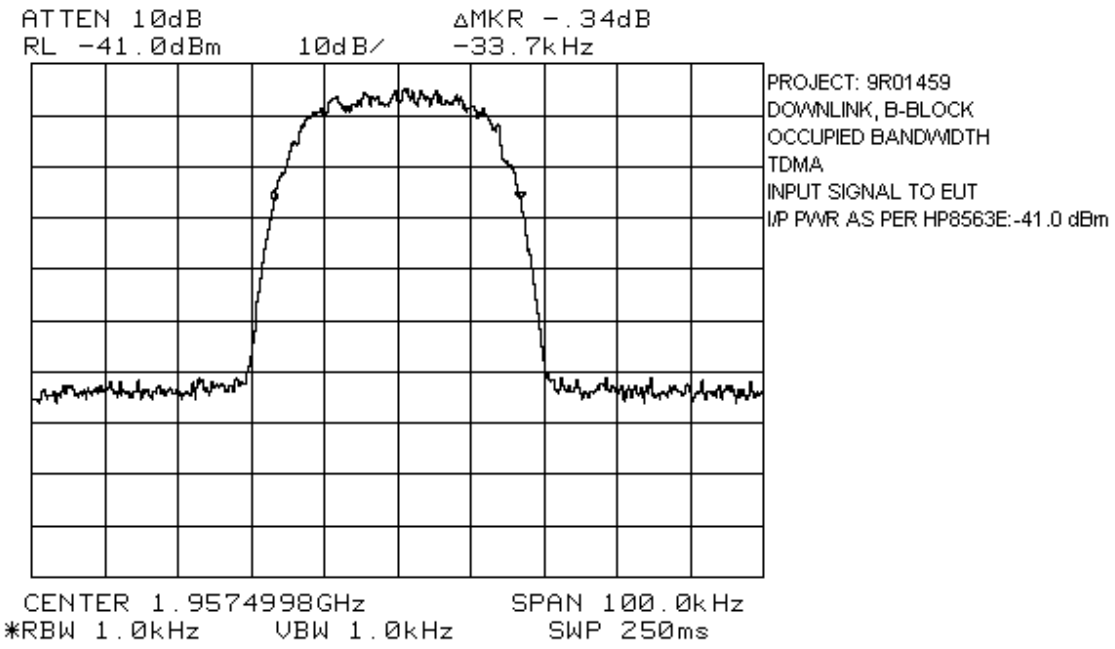

ATTEN 10dB
RL 25.3dBm
10dB/
ΔMKR .33dB
33.5kHz
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
OCCUPIED BANDWIDTH
TDMA
OUTPUT FROM EUT
O/P PWR AS PER H 437B:25.3 dBm
D
R
CENTER 1.9409497GHz
SPAN 100.0kHz
*RBW 1.0kHz
VBW 1.0kHz
SWP 250ms


ATTEN 10dB
RL -41.0dBm
10dB/
ΔMKR -.33dB
33.3kHz
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
OCCUPIED BANDWIDTH
TDMA
I/P SIG. TO EUT
I/P PWR AS PER HP8563E:-41.0dBm
CENTER 1.9409497GHz
SPAN 100.0kHz
*RBW 1.0kHz
VBW 1.0kHz
SWP 250ms


ATTEN 10dB
RL 25.4dBm
10dB/
ΔMKR 2.00dB
-32.8kHz
R
PROJECT: 9R01459
UPLINK, B-BLOCK
OCCUPIED BANDWIDTH
TDMA
OUTPUT SIGNAL FROM EUT
O/P PWR AS PER HP437B: 25.4dBm
CENTER 1.8774700GHz
SPAN 100.0kHz
*RBW 1.0kHz
VBW 1.0kHz
SWP 250ms


ATTEN 10dB
RL -43.0dBm
10dB/
ΔMKR .17dB
-33.3kHz
PROJECT: 9R01459
UPLINK, B-BLOCK
OCCUPIED BANDWIDTH
TDMA
INPUT TO EUT
I/P PWR AS PER HP8563E: -43.0 dBm
CENTER 1.8774700GHz
SPAN 100.0kHz
*RBW 1.0kHz
VBW 1.0kHz
SWP 250ms


ATTEN 10dB
RL 25.4dBm
10dB/
ΔMKR .17dB
-33.3kHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
OCCUPIED BANDWIDTH
TDMA
OUTOPUT SIGNAL FROM EUT
O/P PWR AS PER HP437B: 25.4 dBm
D
R
CENTER 1.9574998GHz
SPAN 100.0kHz
*RBW 1.0kHz
VBW 1.0kHz
SWP 250ms


ATTEN 10dB
RL -41.0dBm
10dB/
ΔMKR -.34dB
-33.7kHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
OCCUPIED BANDWIDTH
TDMA
INPUT SIGNAL TO EUT
I/P PWR AS PER HP8563E:-41.0 dBm
CENTER 1.9574998GHz
SPAN 100.0kHz
*RBW 1.0kHz
VBW 1.0kHz
SWP 250ms

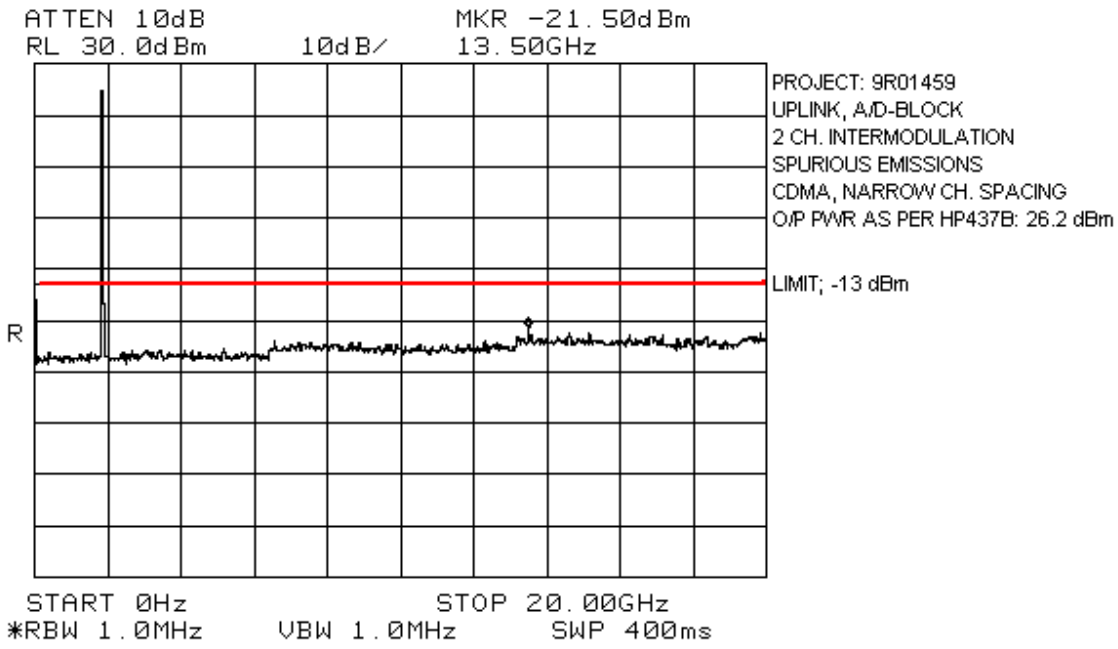
Section 5. Spurious Emissions at Antenna Terminals

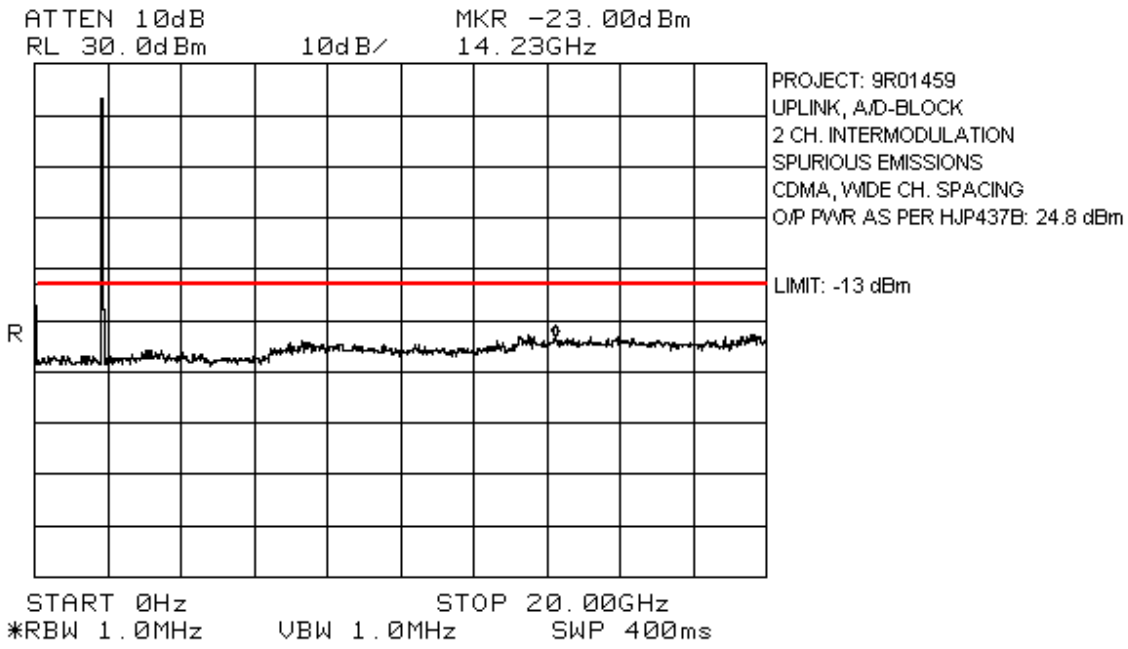
NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.917(e)
TESTED BY: Kevin Carr	DATE: April 22, 1999

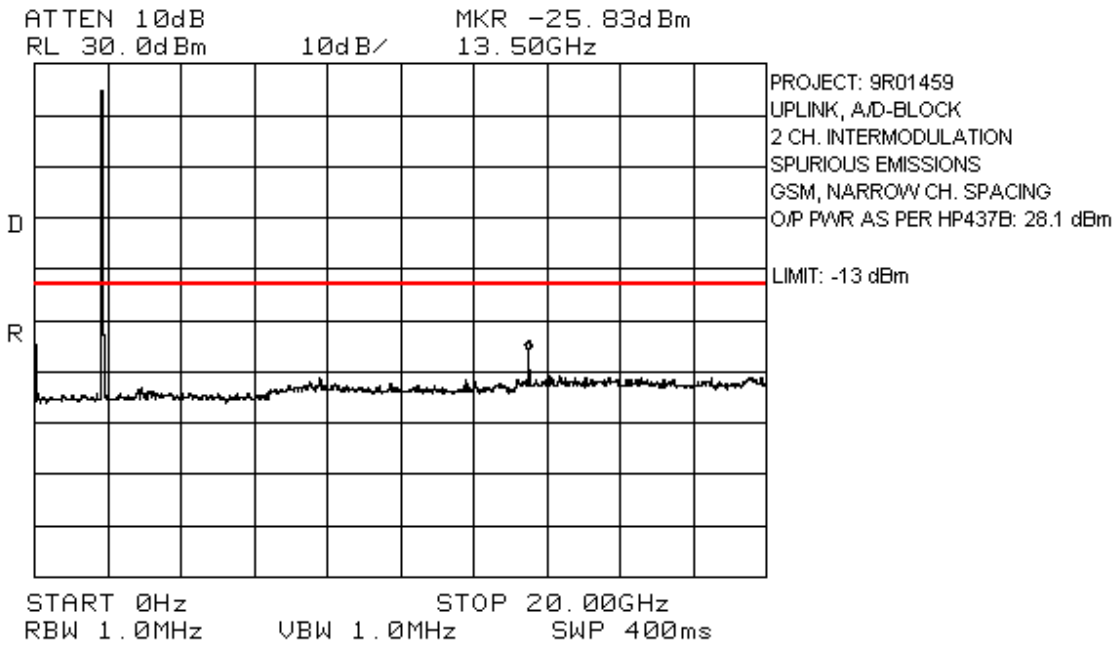
Test Results: Complies.

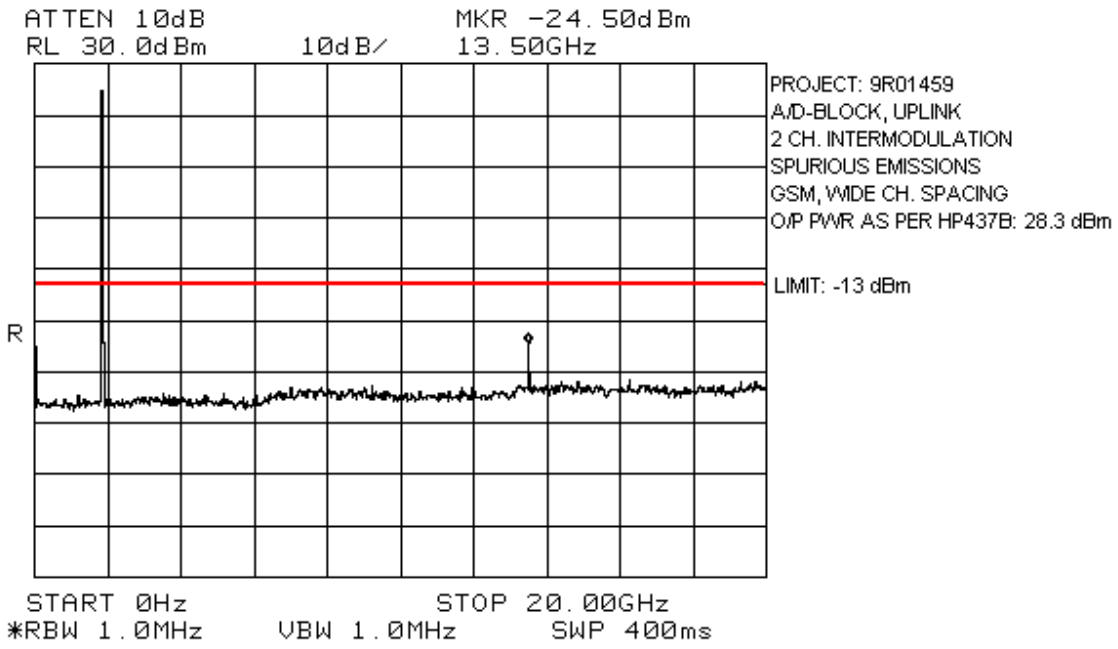
Test Data:

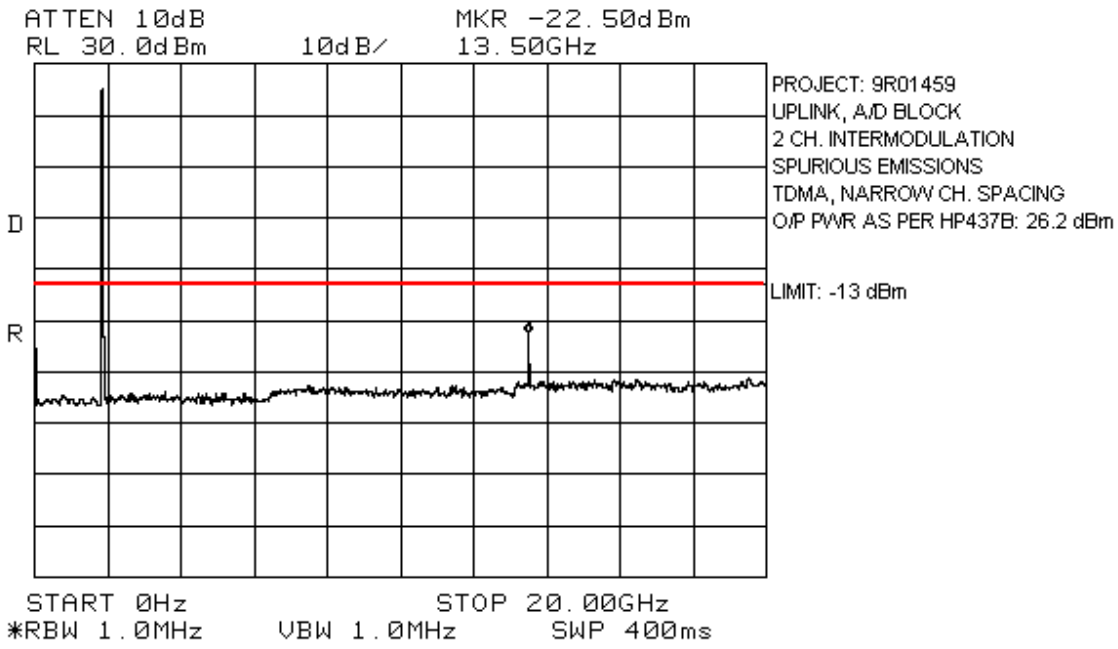
NAME OF TEST	WORST-CASE SPURIOUS LEVEL(dBm)
0 to 20 GHz spurious (Uplink)	-17.33
0 to 20 GHz spurious (Downlink)	-21.67
2 - signal intermodulation (Uplink)	-13.0
2 - signal intermodulation (Downlink)	-13.0
Lower band edge spurious (Uplink)	-15.57
Lower band edge spurious (Downlink)	-17.0
Upper band edge spurious (Uplink)	-16.73
Upper band edge spurious (Downlink)	-16.27

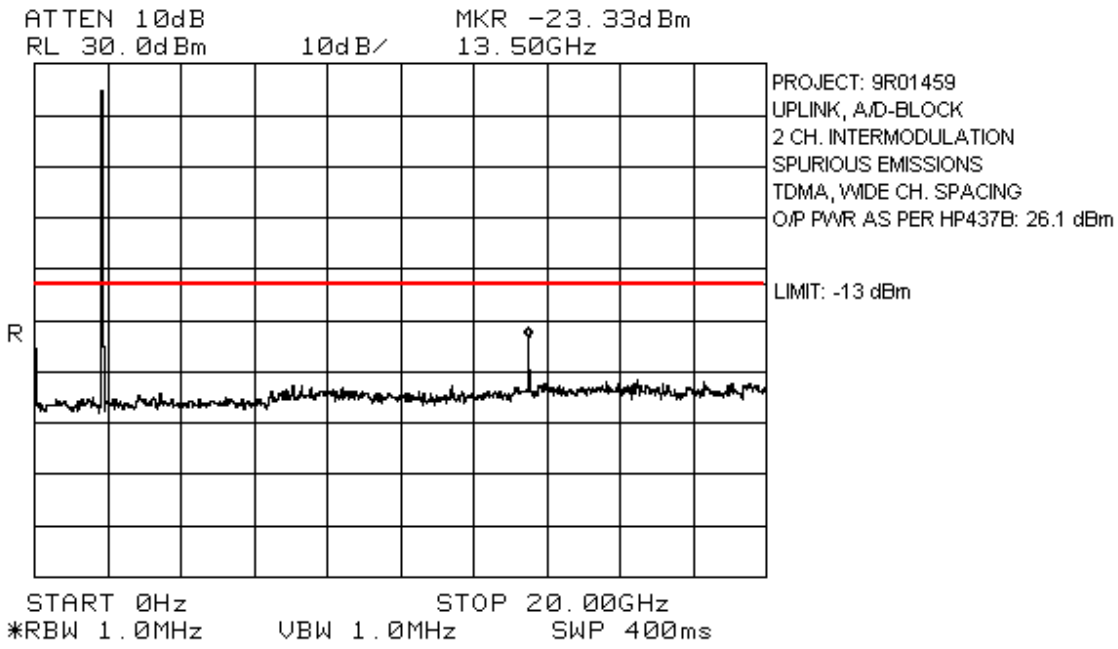

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -21.50dBm
13.50GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
CDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 26.2 dBm
LIMIT; -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

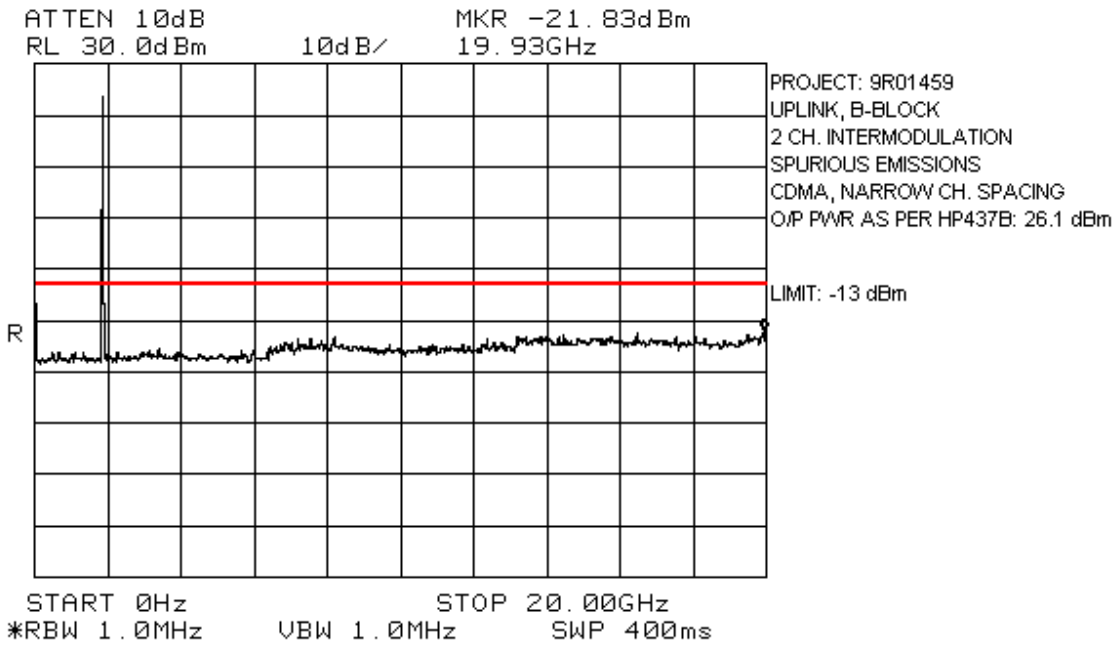

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -23.00dBm
14.23GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
CDMA, WIDE CH. SPACING
O/P PWR AS PER HJP437B: 24.8 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

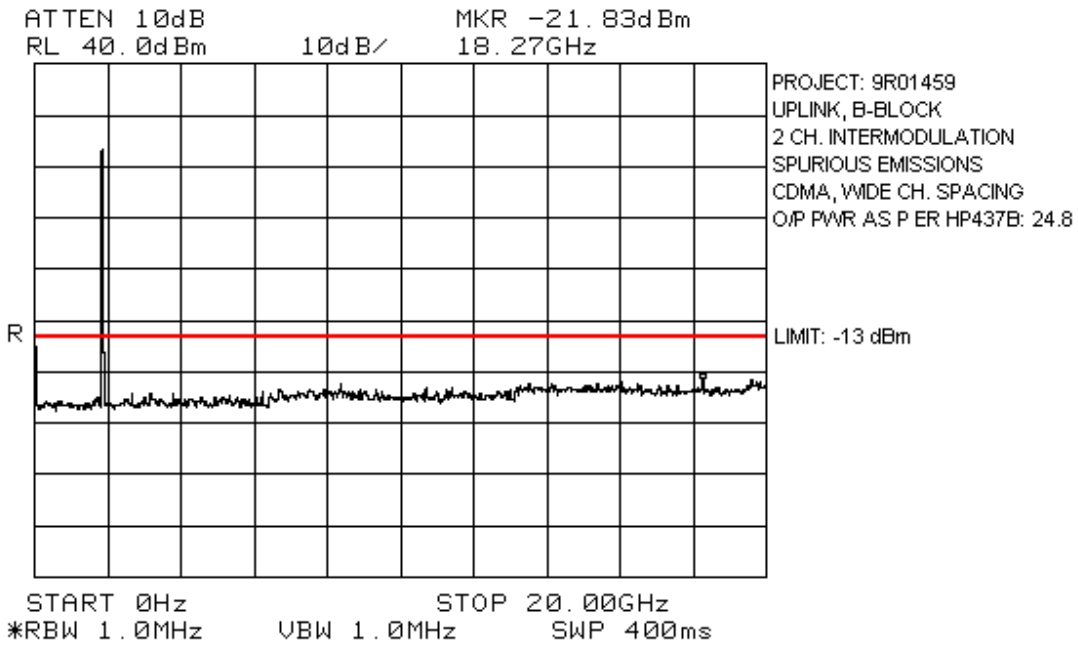

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -25.83dBm
13.50GHz
D
R
PROJECT: 9R01459
UPLINK, A/D-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
GSM, NARROW CH. SPACING
O/P PWR AS PER HP437B: 28.1 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

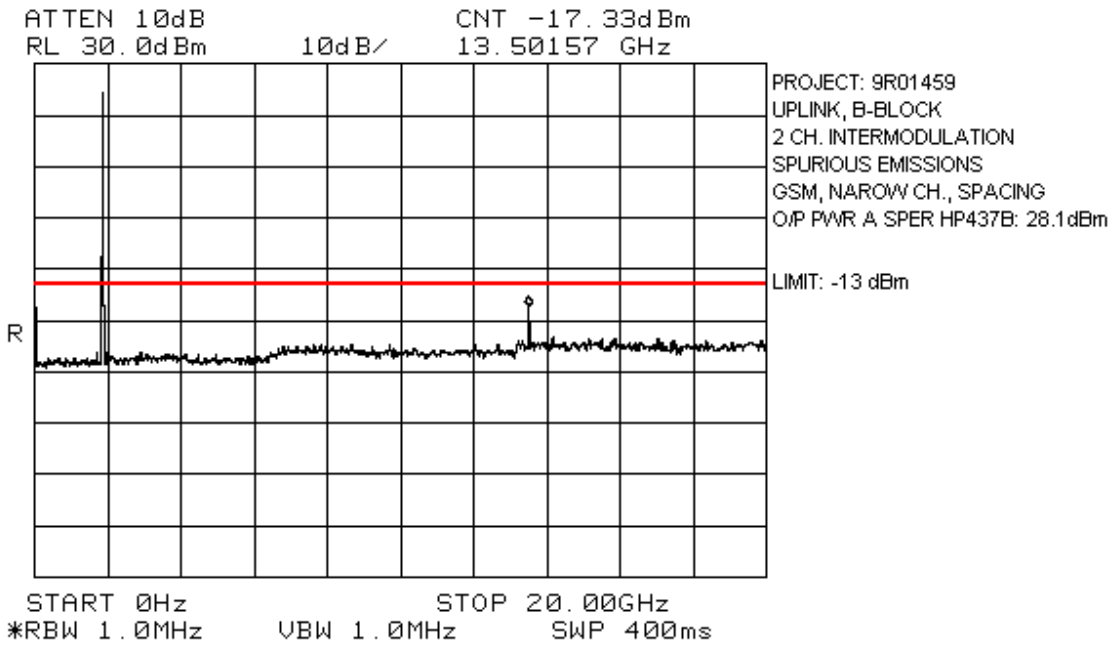

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -24.50dBm
13.50GHz
PROJECT: 9R01459
A/D-BLOCK, UPLINK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
GSM, WIDE CH. SPACING
O/P PWR AS PER HP437B: 28.3 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

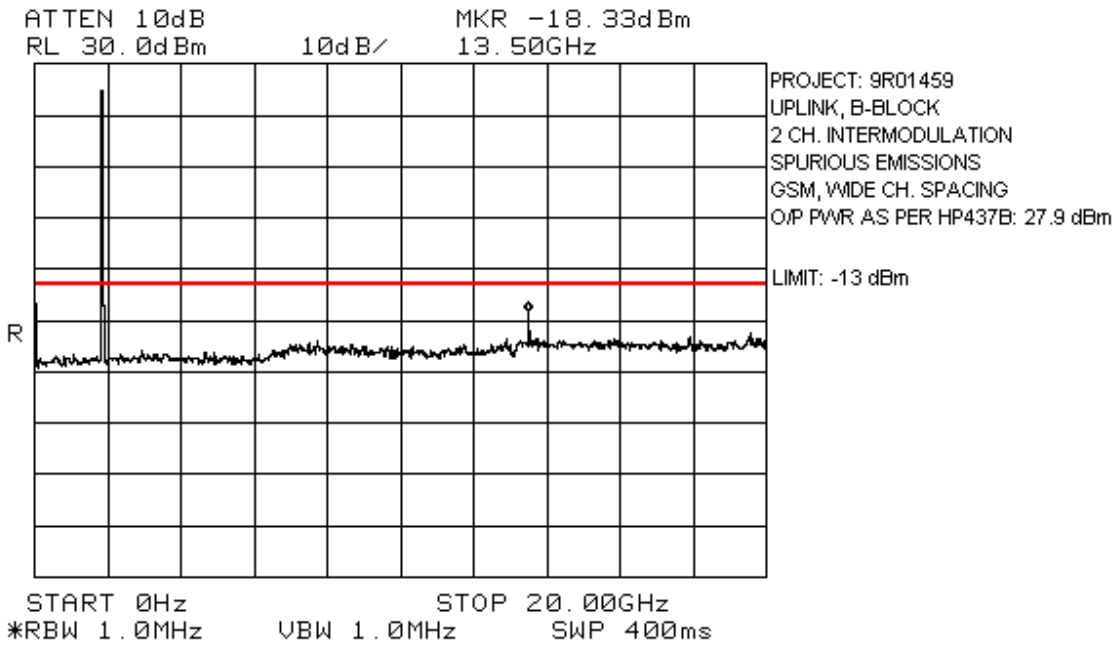

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -22.50dBm
13.50GHz
D
R
PROJECT: 9R01459
UPLINK, A/D BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
TDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 26.2 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

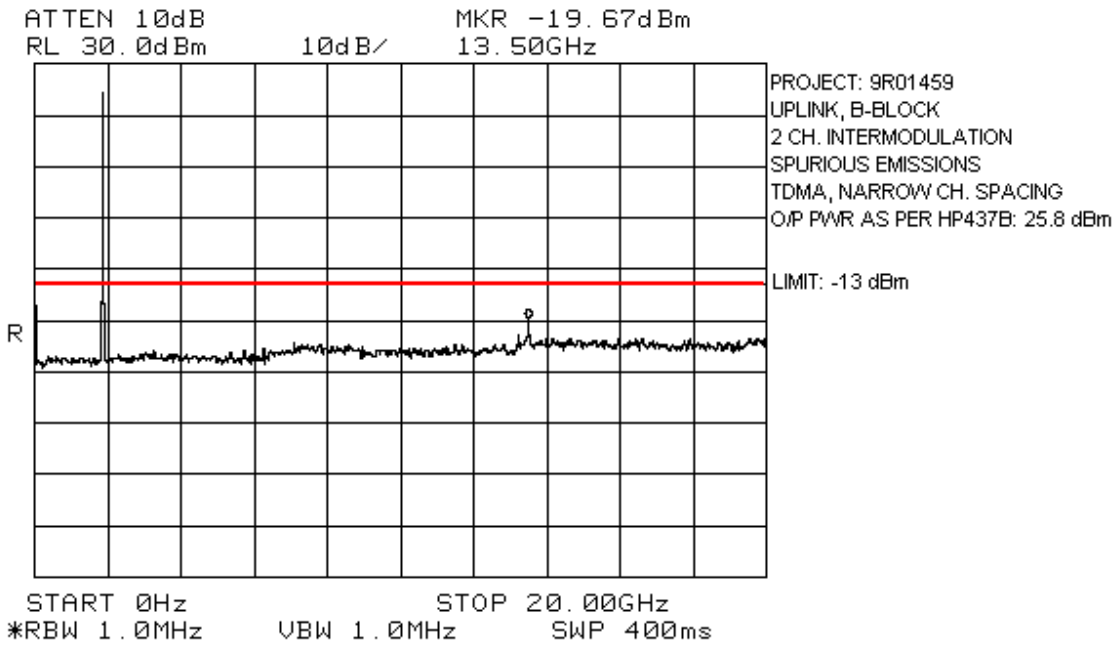

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -23.33dBm
13.50GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
TDMA, WIDE CH. SPACING
O/P PWR AS PER HP437B: 26.1 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

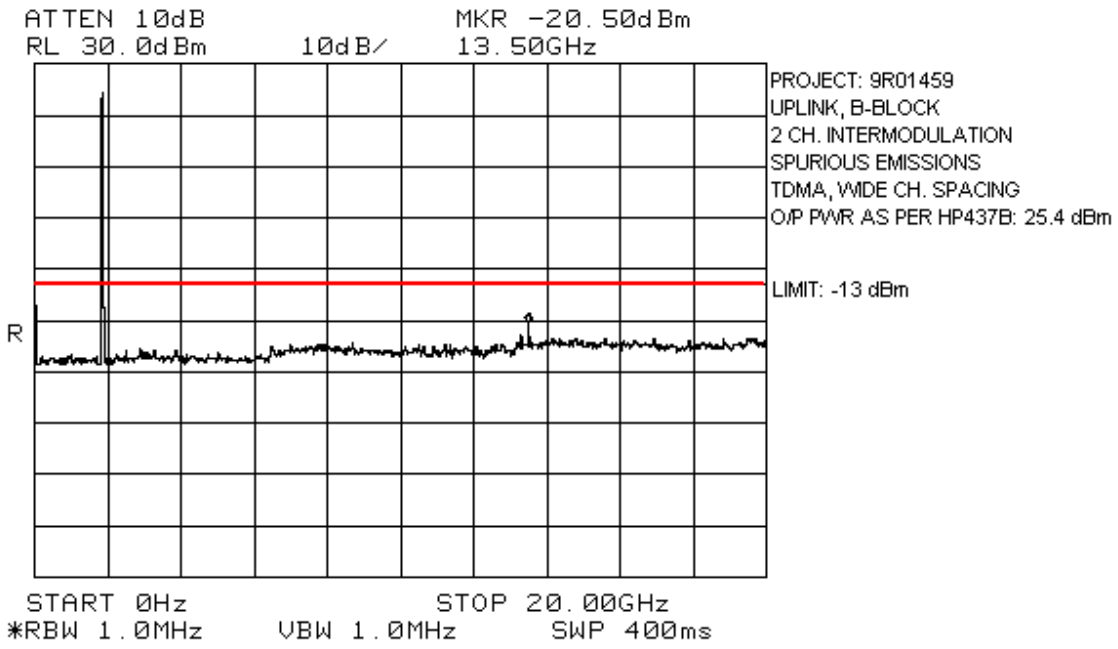

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -21.83dBm
19.93GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
CDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 26.1 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

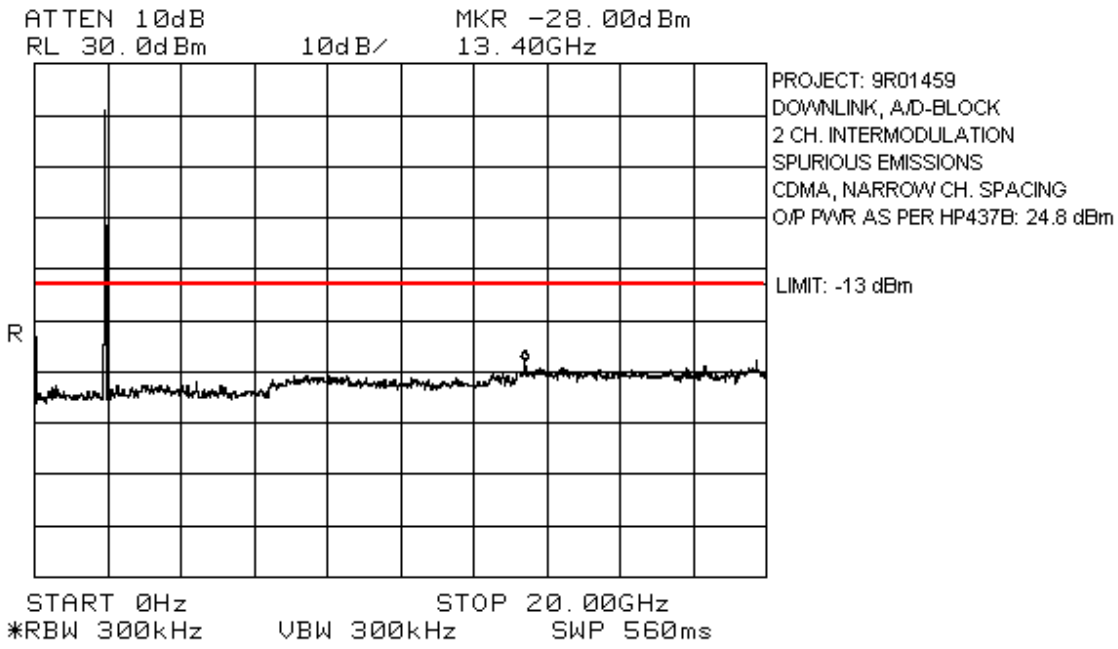

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -21.83dBm
18.27GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
CDMA, WIDE CH. SPACING
O/P PWR AS P ER HP437B: 24.8
R
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

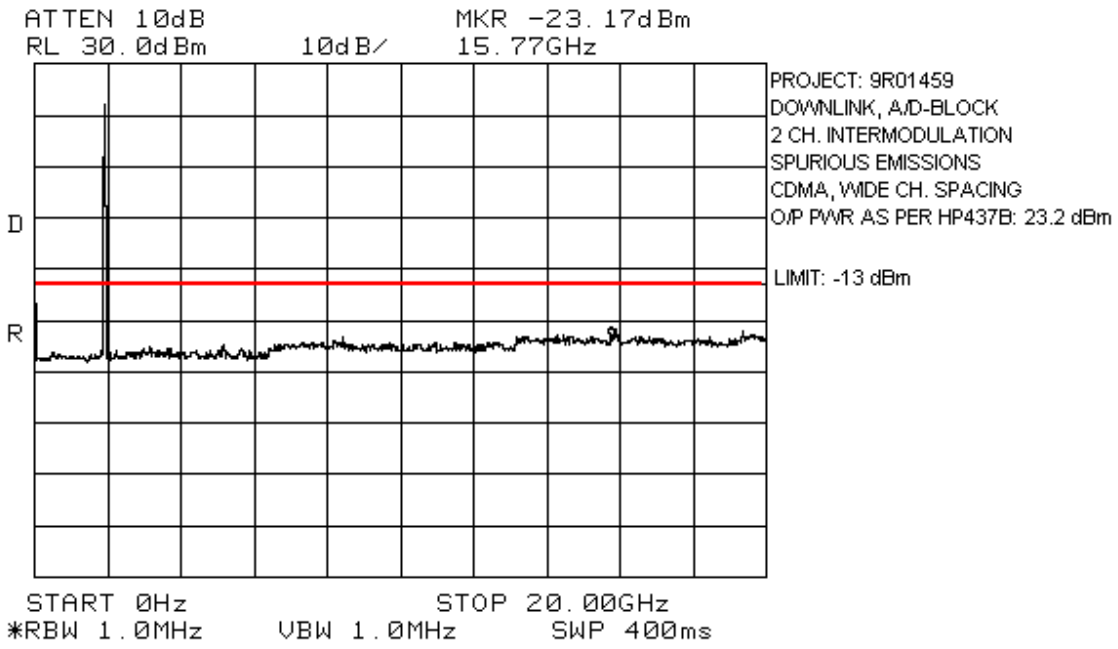

ATTEN 10dB
RL 30.0dBm
10dB/
CNT -17.33dBm
13.50157 GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
GSM, NAROW CH., SPACING
O/P PWR A SPER HP437B: 28.1dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

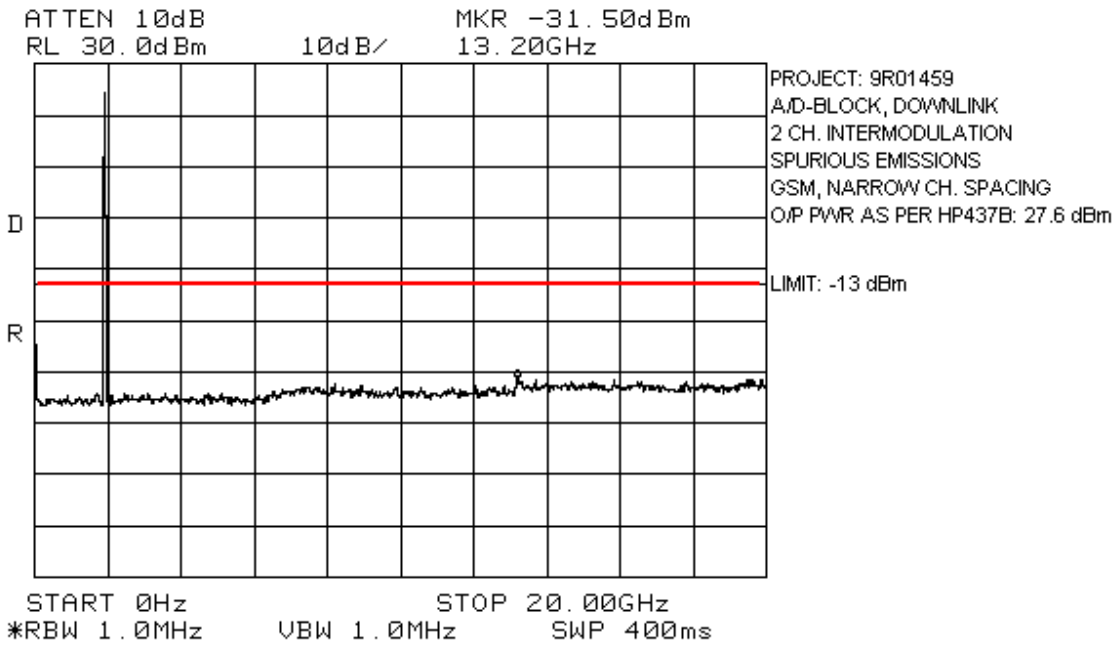

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -18.33dBm
13.50GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
GSM, WIDE CH. SPACING
O/P PWR AS PER HP437B: 27.9 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

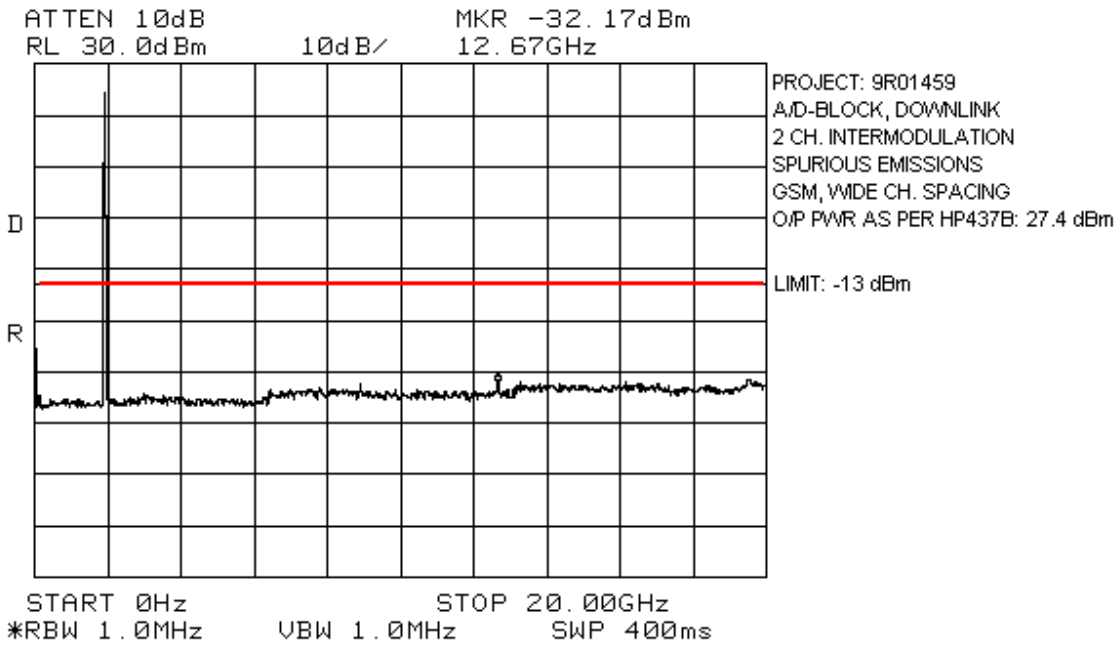

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -19.67dBm
13.50GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
TDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 25.8 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

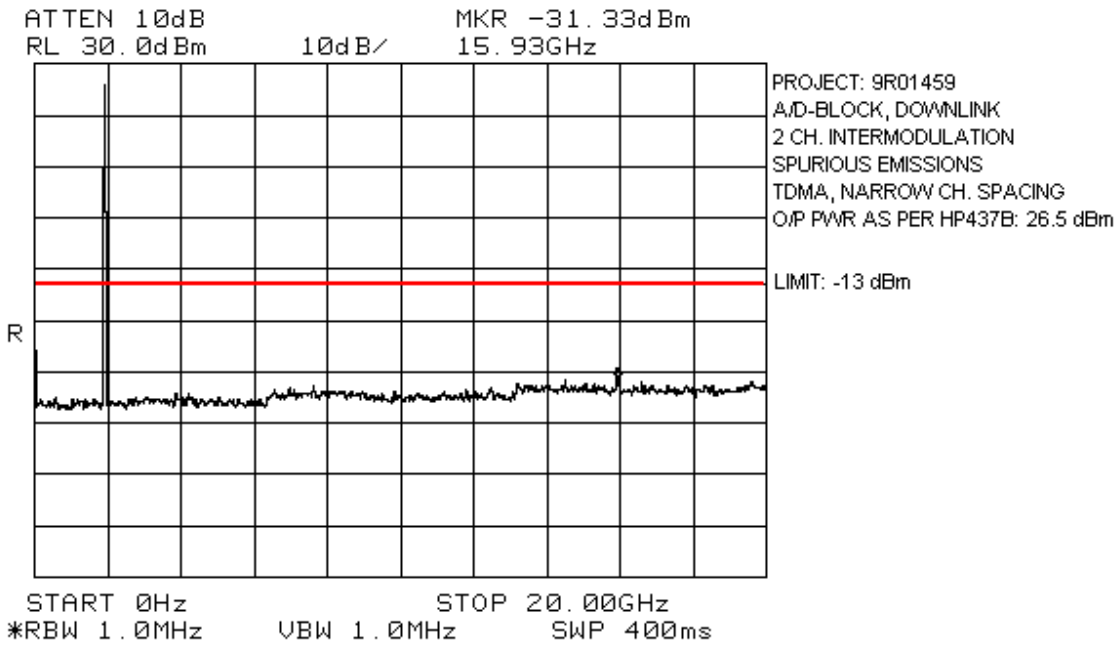

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -20.50dBm
13.50GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
TDMA, WIDE CH. SPACING
O/P PWR AS PER HP437B: 25.4 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

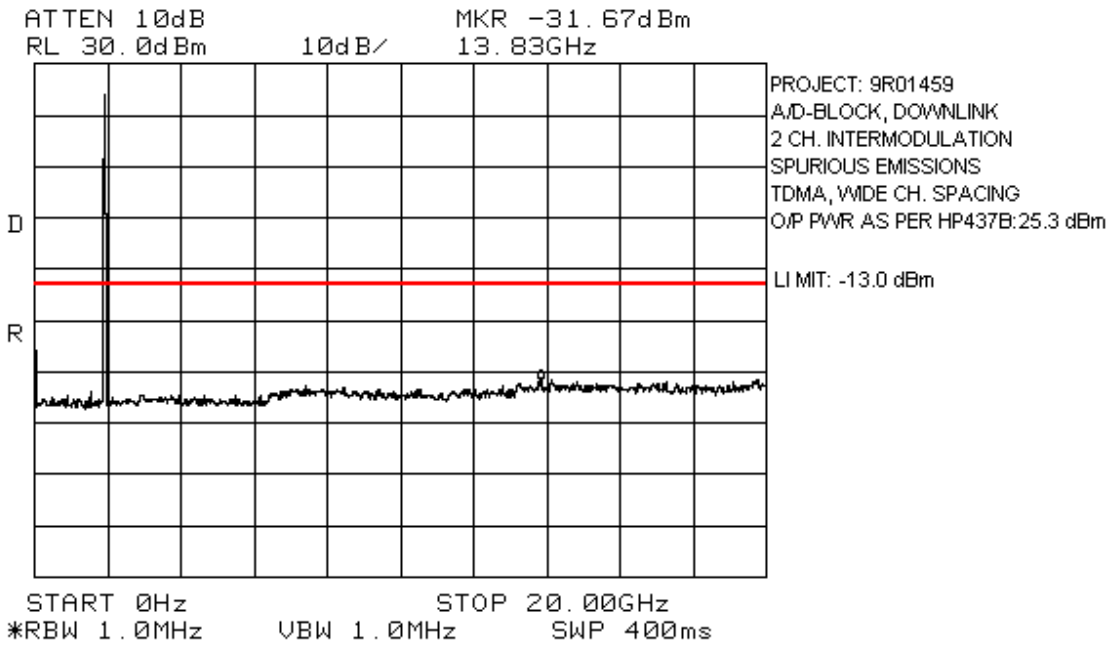

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -28.00dBm
13.40GHz
PROJECT: 9R01459
DOWNLINK, A/D-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
CDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 24.8 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 300kHz
VBW 300kHz
SWP 560ms

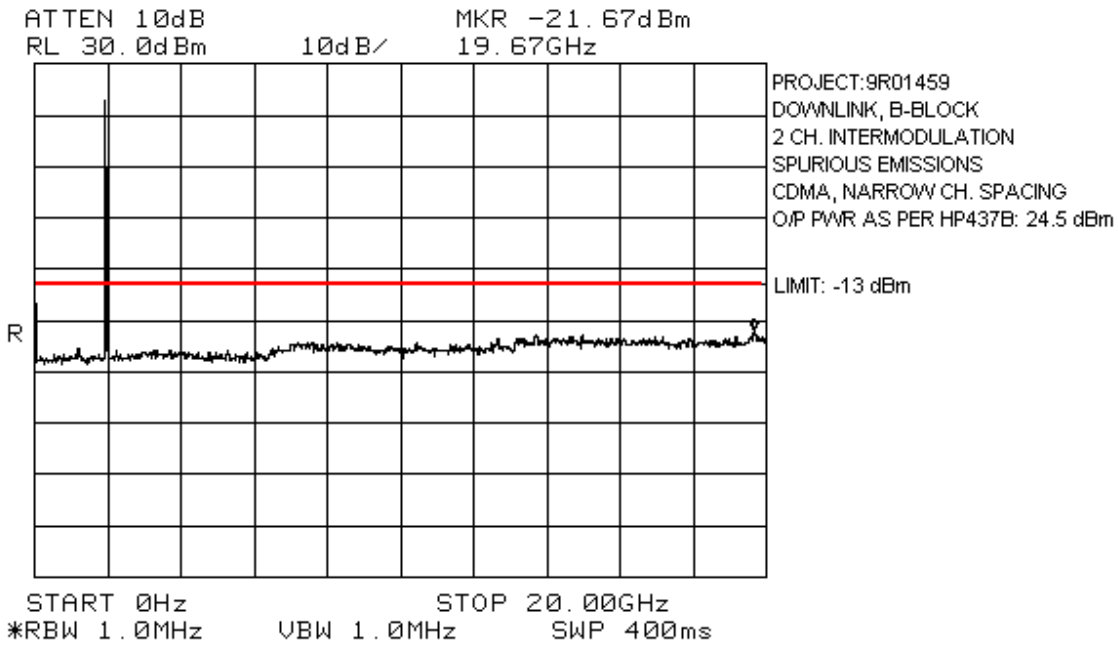

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -23.17dBm
15.77GHz
D
R
PROJECT: 9R01459
DOWNLINK, A/D-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
CDMA, WIDE CH. SPACING
O/P PWR AS PER HP437B: 23.2 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

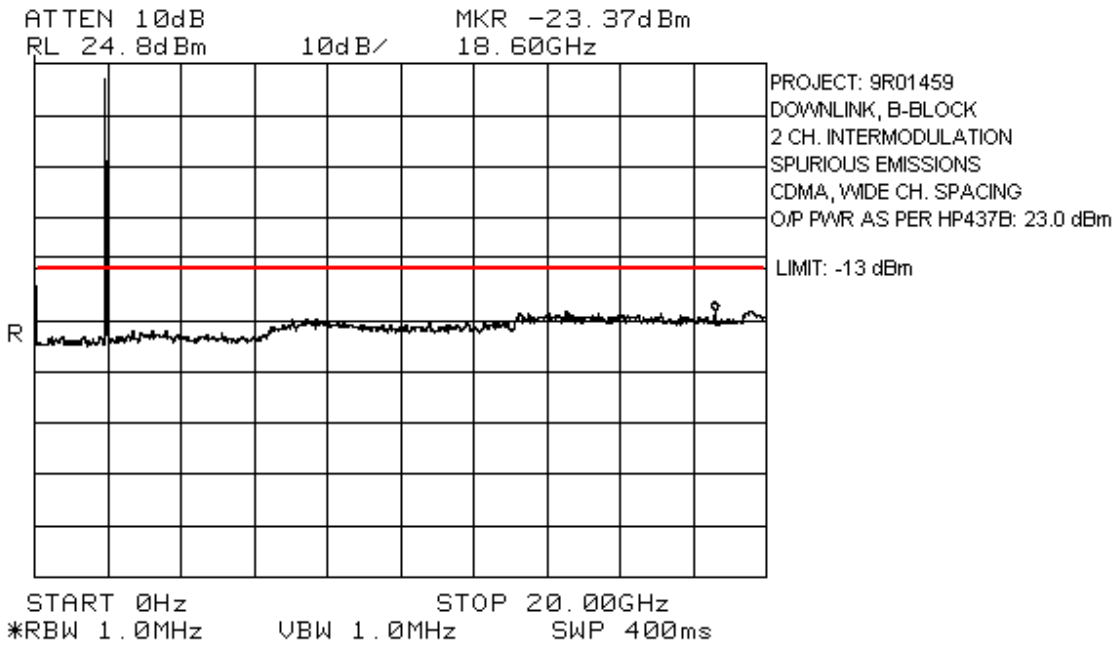

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -31.50dBm
13.20GHz
D
R
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
GSM, NARROW CH. SPACING
O/P PWR AS PER HP437B: 27.6 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

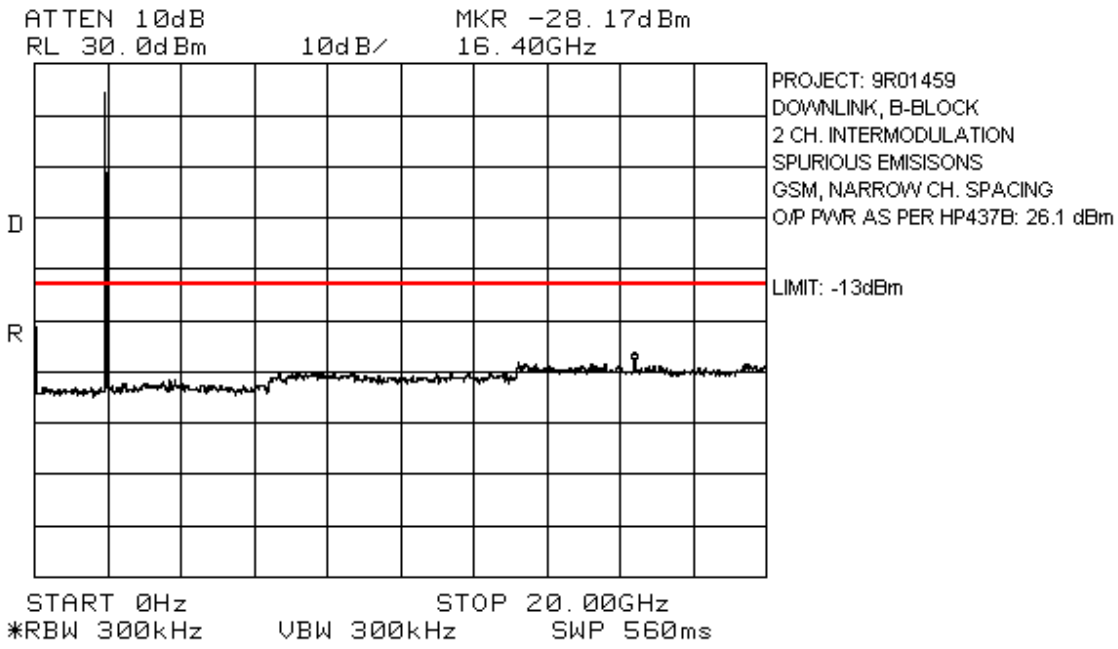

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -32.17dBm
12.67GHz
D
R
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
GSM, WIDE CH. SPACING
O/P PWR AS PER HP437B: 27.4 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

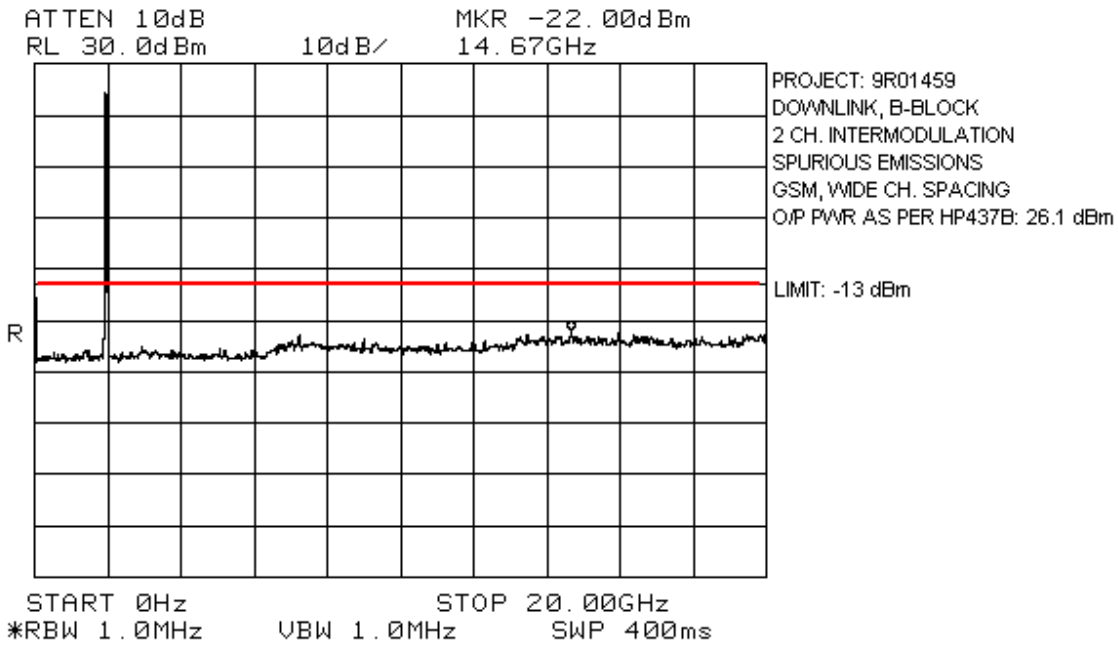

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -31.33dBm
15.93GHz
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
TDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 26.5 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

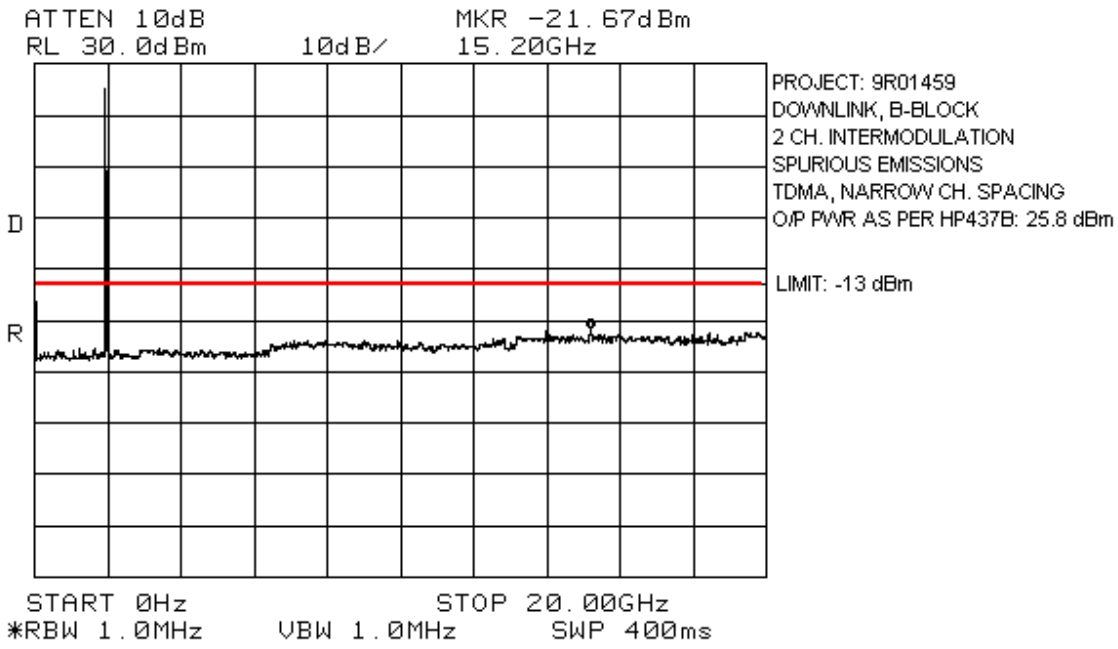

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -31.67dBm
13.83GHz
D
R
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
TDMA, WIDE CH. SPACING
O/P PWR AS PER HP437B:25.3 dBm
LIMIT: -13.0 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

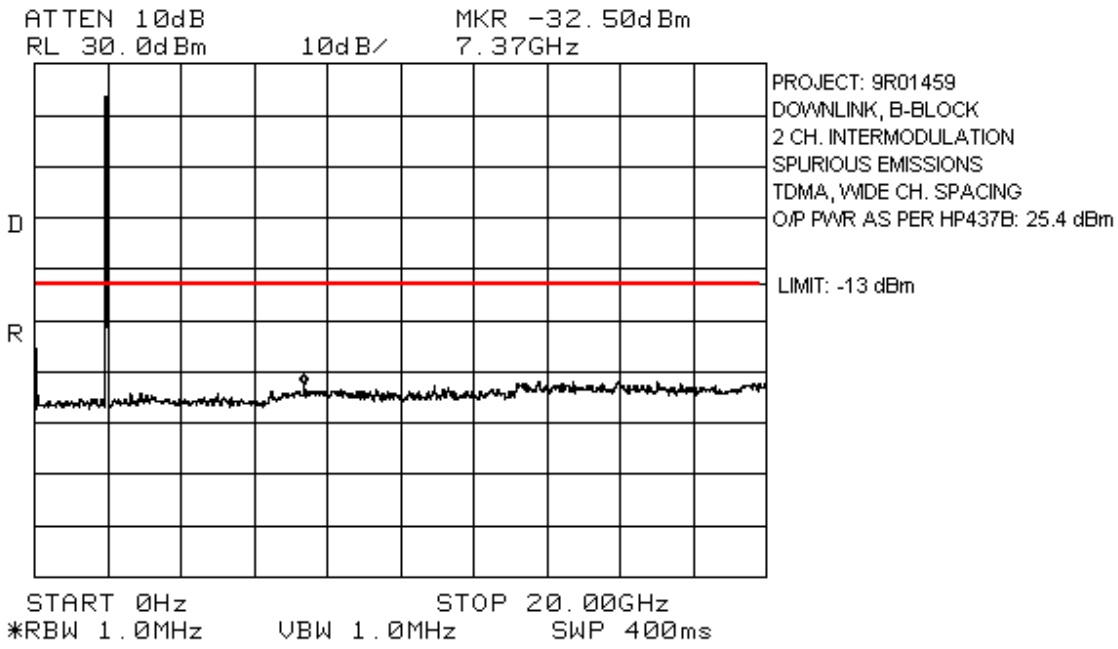

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -21.67dBm
19.67GHz
PROJECT:9R01459
DOWNLINK, B-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
CDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 24.5 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

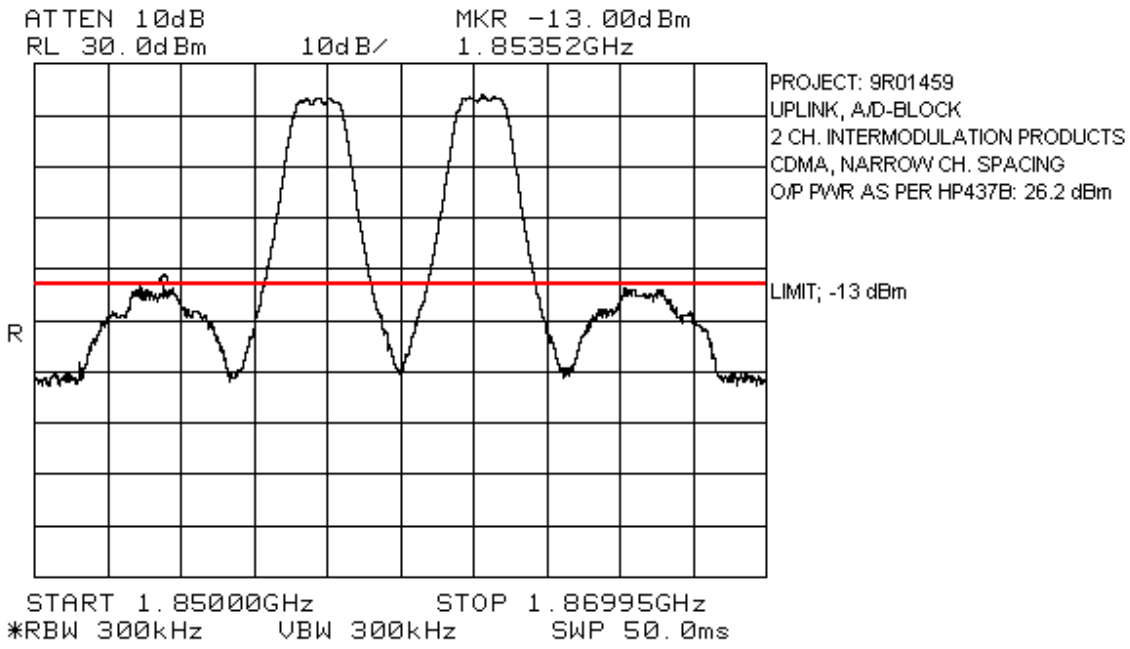

ATTEN 10dB
RL 24.8dBm
10dB/
MKR -23.37dBm
18.60GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
CDMA, WIDE CH. SPACING
O/P PWR AS PER HP437B: 23.0 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

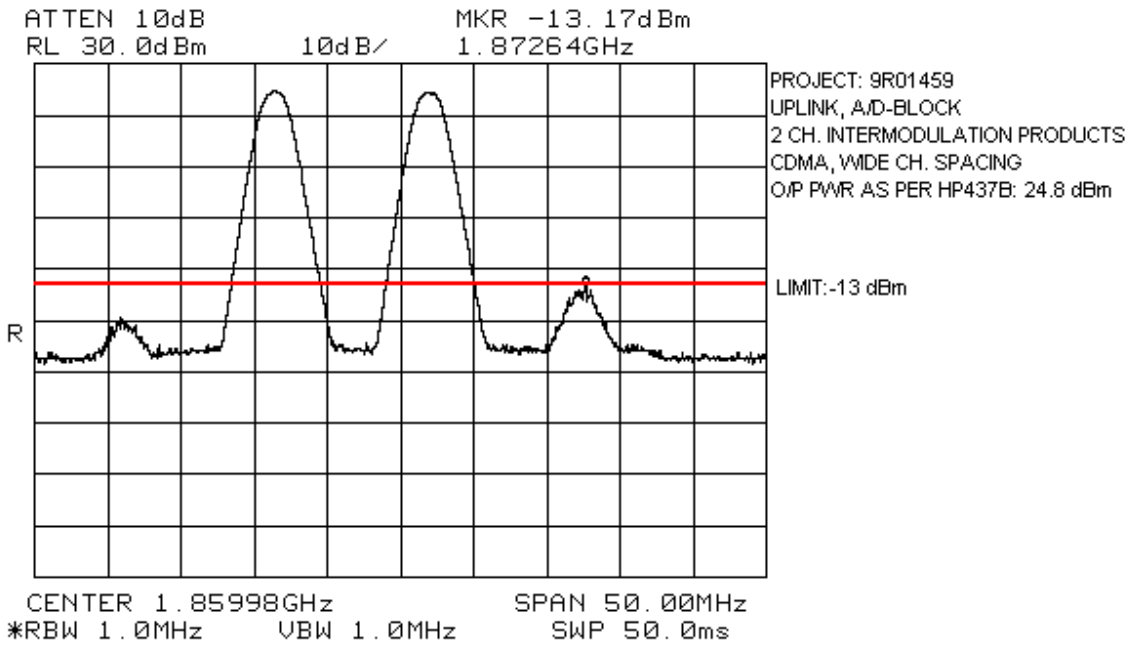

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -28.17dBm
16.40GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISISONS
GSM, NARROW CH. SPACING
O/P PWR AS PER HP437B: 26.1 dBm
LIMIT: -13dBm
D
R
START 0Hz
STOP 20.00GHz
*RBW 300kHz
VBW 300kHz
SWP 560ms

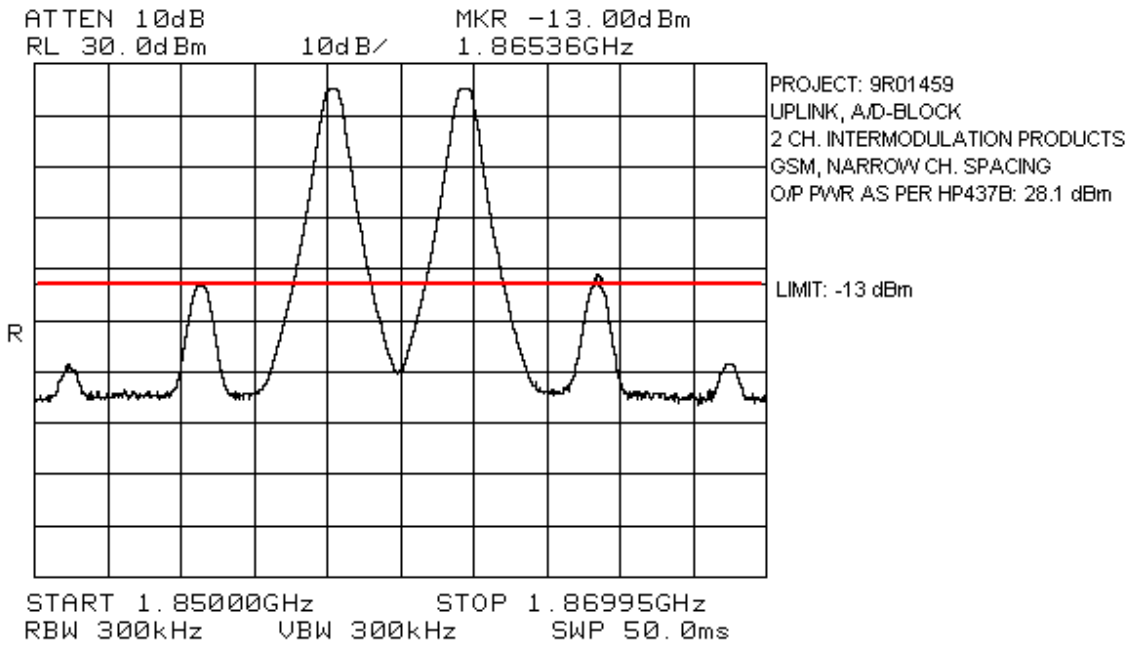

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -22.00dBm
14.67GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
GSM, WIDE CH. SPACING
O/P PWR AS PER HP437B: 26.1 dBm
LIMIT: -13 dBm
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

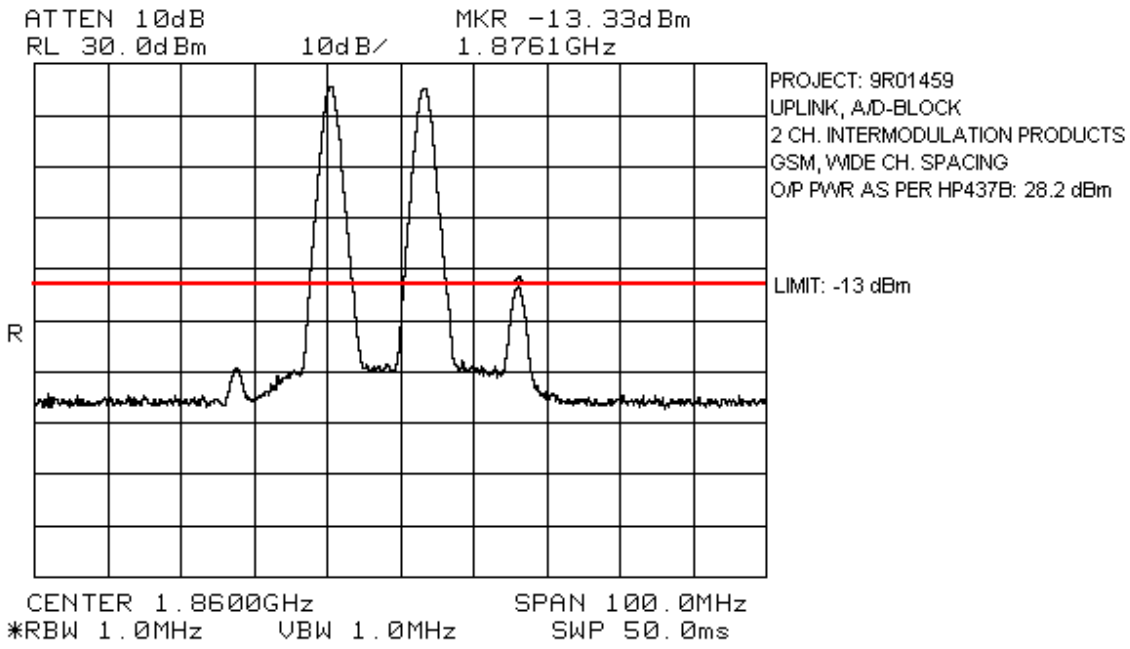

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -21.67dBm
15.20GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
TDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 25.8 dBm
LIMIT: -13 dBm
D
R
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

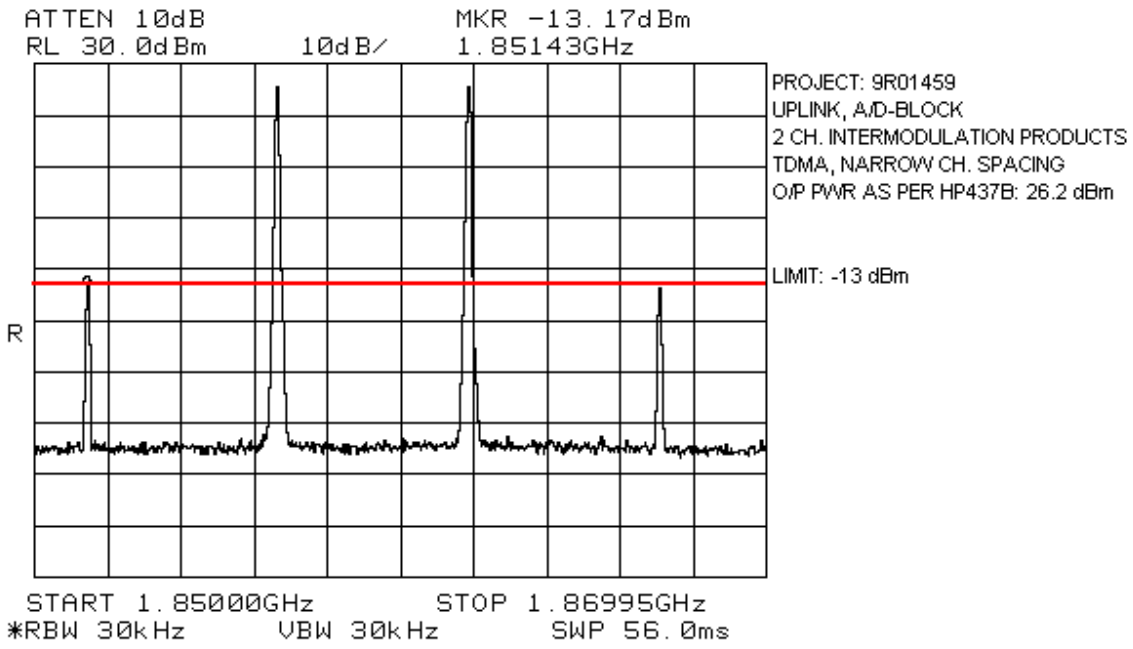

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -32.50dBm
7.37GHz
D
R
PROJECT: 9R01459
DOWNLINK, B-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
TDMA, WIDE CH. SPACING
O/P PWR AS PER HP437B: 25.4 dBm
LIMIT: -13 dBm
START 0Hz
STOP 20.00GHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 400ms

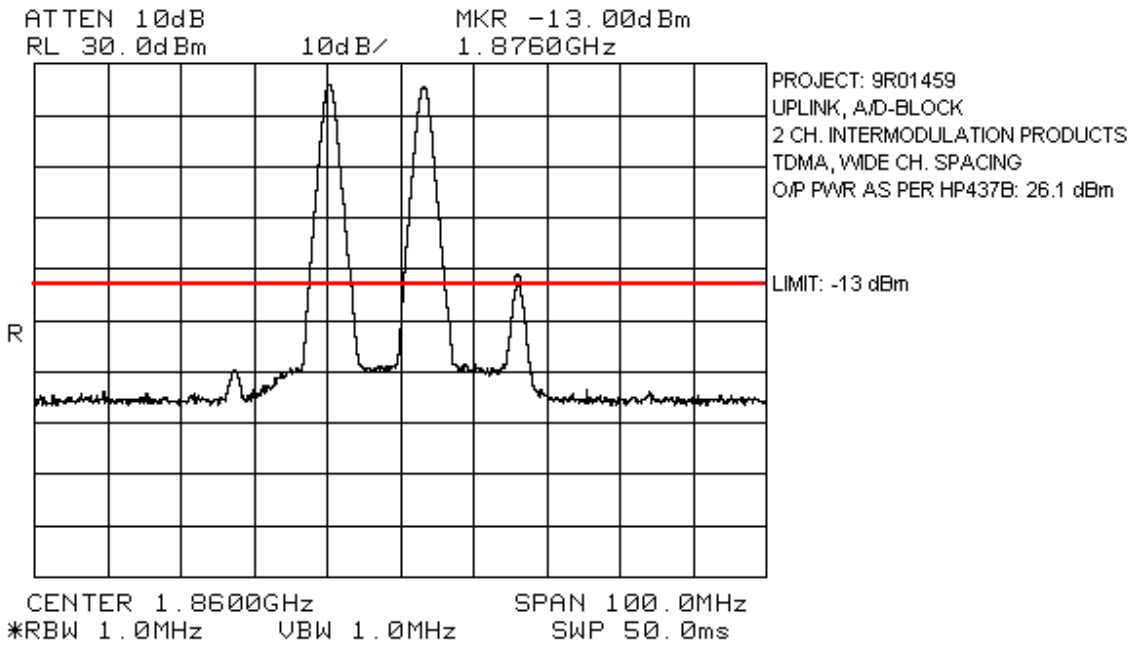

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.00dBm
1.85352GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
2 CH. INTERMODULATION PRODUCTS
CDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 26.2 dBm
LIMIT; -13 dBm
R
START 1.85000GHz
STOP 1.86995GHz
*RBW 300kHz
VBW 300kHz
SWP 50.0ms

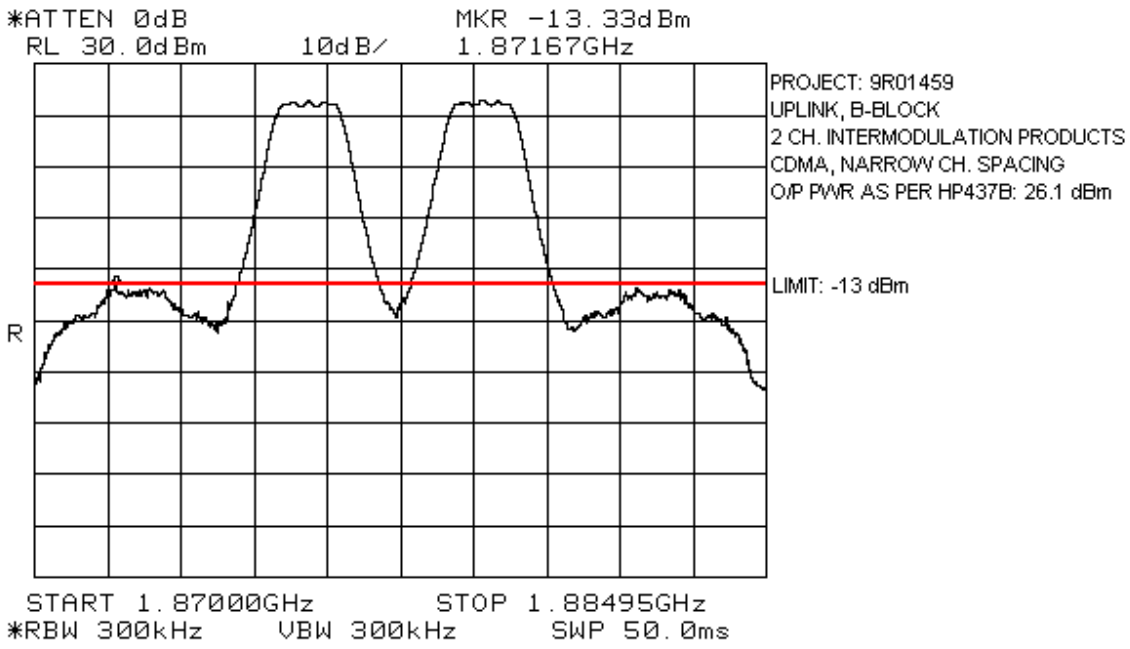

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.17dBm
1.87264GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
2 CH. INTERMODULATION PRODUCTS
CDMA, WIDE CH. SPACING
O/P PWR AS PER HP437B: 24.8 dBm
LIMIT:-13 dBm
R
CENTER 1.85998GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

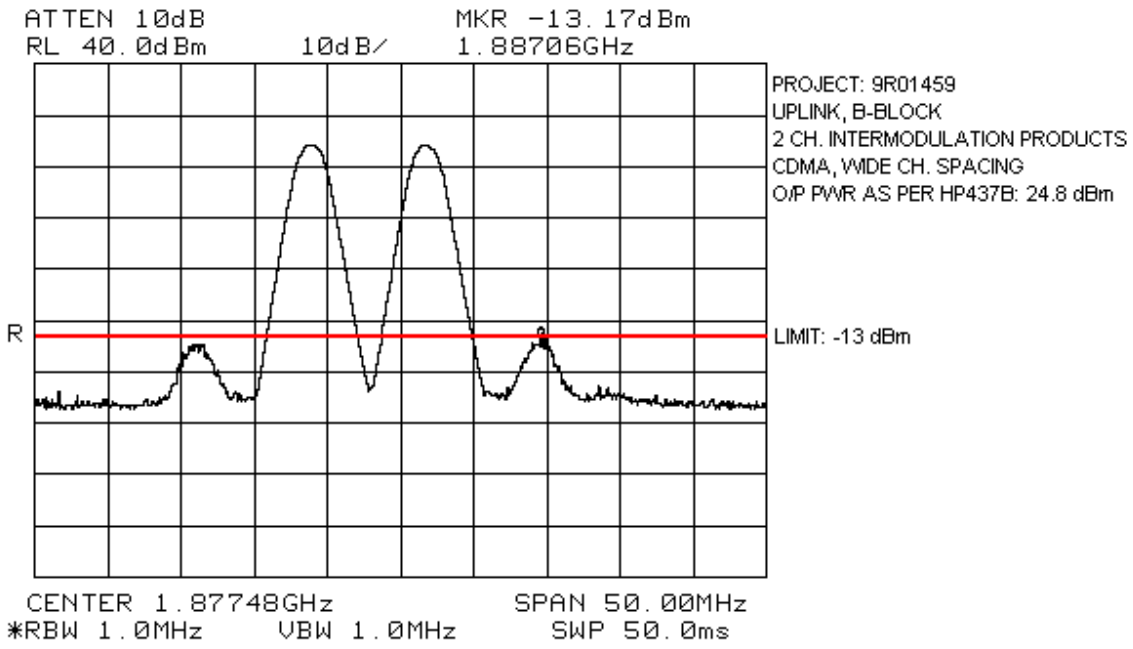

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.00dBm
1.86536GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
2 CH. INTERMODULATION PRODUCTS
GSM, NARROW CH. SPACING
O/P PWR AS PER HP437B: 28.1 dBm
LIMIT: -13 dBm
R
START 1.85000GHz
STOP 1.86995GHz
RBW 300kHz
VBW 300kHz
SWP 50.0ms

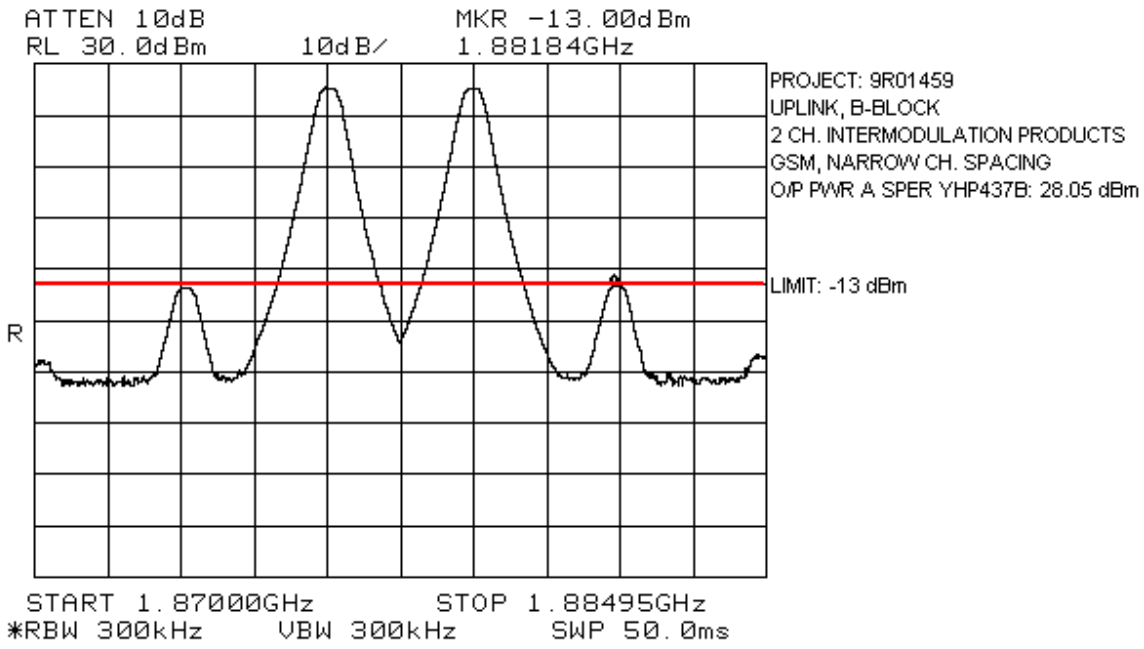

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.33dBm
1.8761GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
2 CH. INTERMODULATION PRODUCTS
GSM, WIDE CH. SPACING
O/P PWR AS PER HP437B: 28.2 dBm
LIMIT: -13 dBm
R
CENTER 1.8600GHz
SPAN 100.0MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

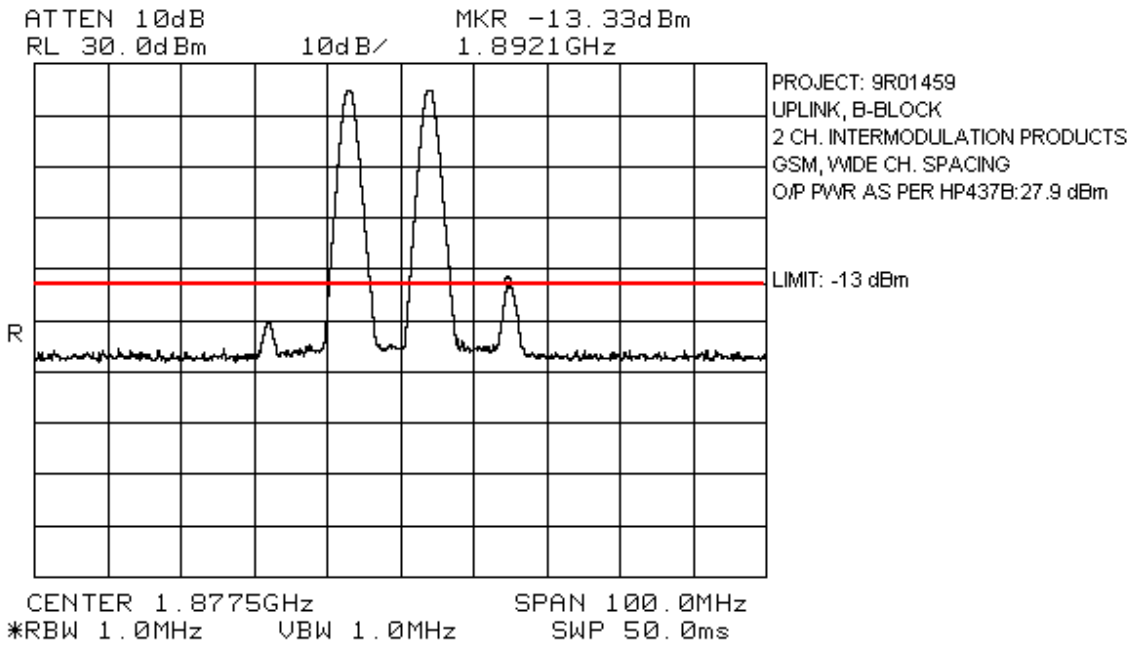

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.17dBm
1.85143GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
2 CH. INTERMODULATION PRODUCTS
TDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 26.2 dBm
LIMIT: -13 dBm
R
START 1.85000GHz
STOP 1.86995GHz
*RBW 30kHz
VBW 30kHz
SWP 56.0ms

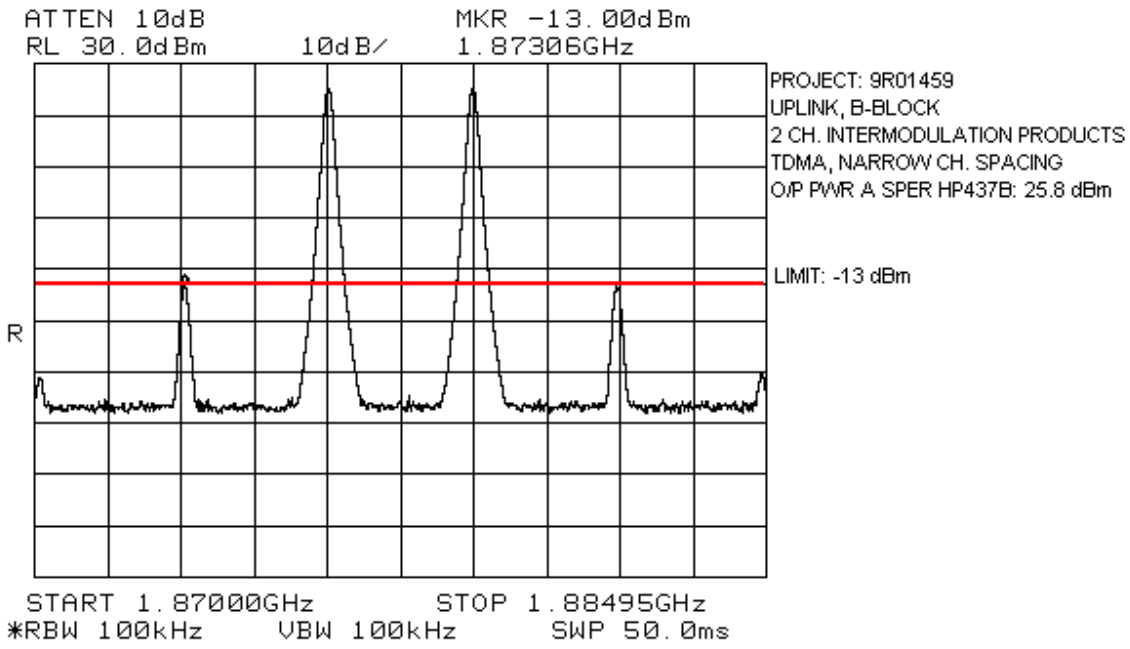

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.00dBm
1.8760GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
2 CH. INTERMODULATION PRODUCTS
TDMA, WIDE CH. SPACING
O/P PWR AS PER HP437B: 26.1 dBm
LIMIT: -13 dBm
R
CENTER 1.8600GHz
SPAN 100.0MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

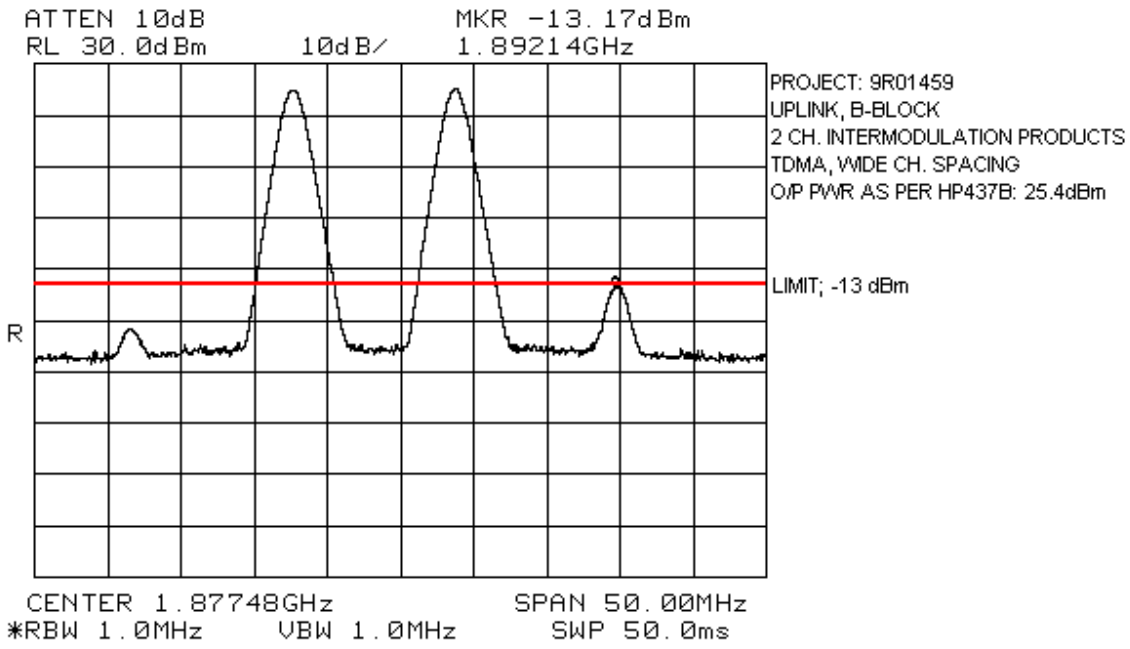

*ATTEN 0dB
MKR -13.33dBm
RL 30.0dBm
10dB/
1.87167GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
2 CH. INTERMODULATION PRODUCTS
CDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 26.1 dBm
LIMIT: -13 dBm
R
START 1.87000GHz
STOP 1.88495GHz
*RBW 300kHz
VBW 300kHz
SWP 50.0ms

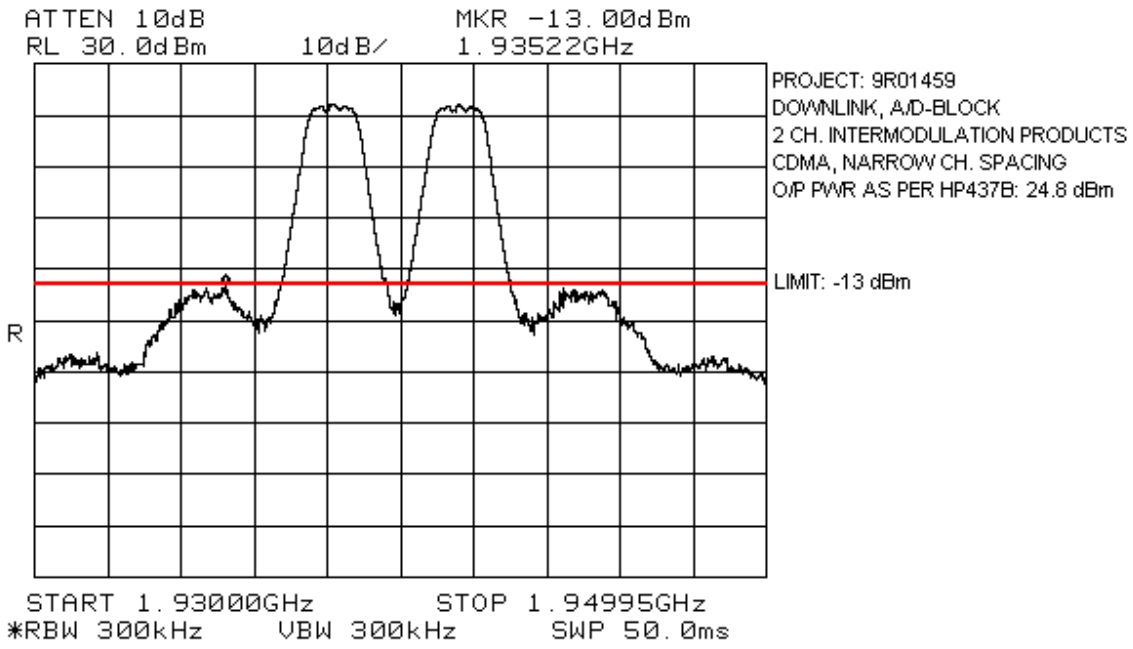

ATTEN 10dB
RL 40.0dBm
10dB/
MKR -13.17dBm
1.88706GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
2 CH. INTERMODULATION PRODUCTS
CDMA, WIDE CH. SPACING
O/P PWR AS PER HP437B: 24.8 dBm
R
LIMIT: -13 dBm
CENTER 1.87748GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

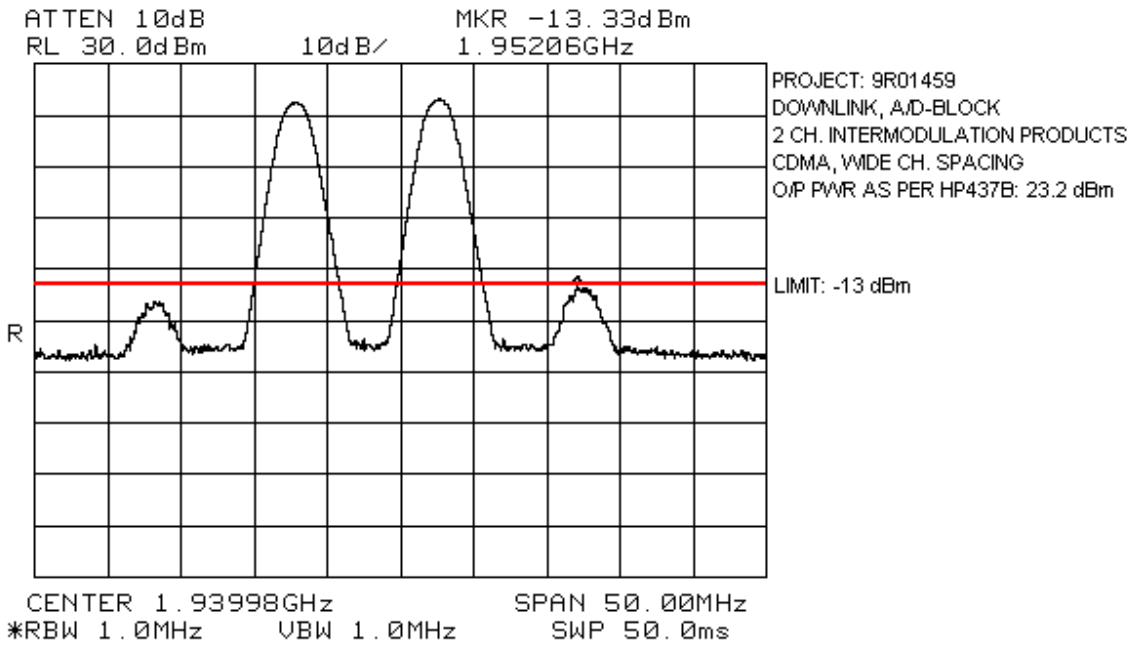

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.00dBm
1.88184GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
2 CH. INTERMODULATION PRODUCTS
GSM, NARROW CH. SPACING
O/P PWR A SPER YHP437B: 28.05 dBm
LIMIT: -13 dBm
R
START 1.87000GHz
STOP 1.88495GHz
*RBW 300kHz
VBW 300kHz
SWP 50.0ms

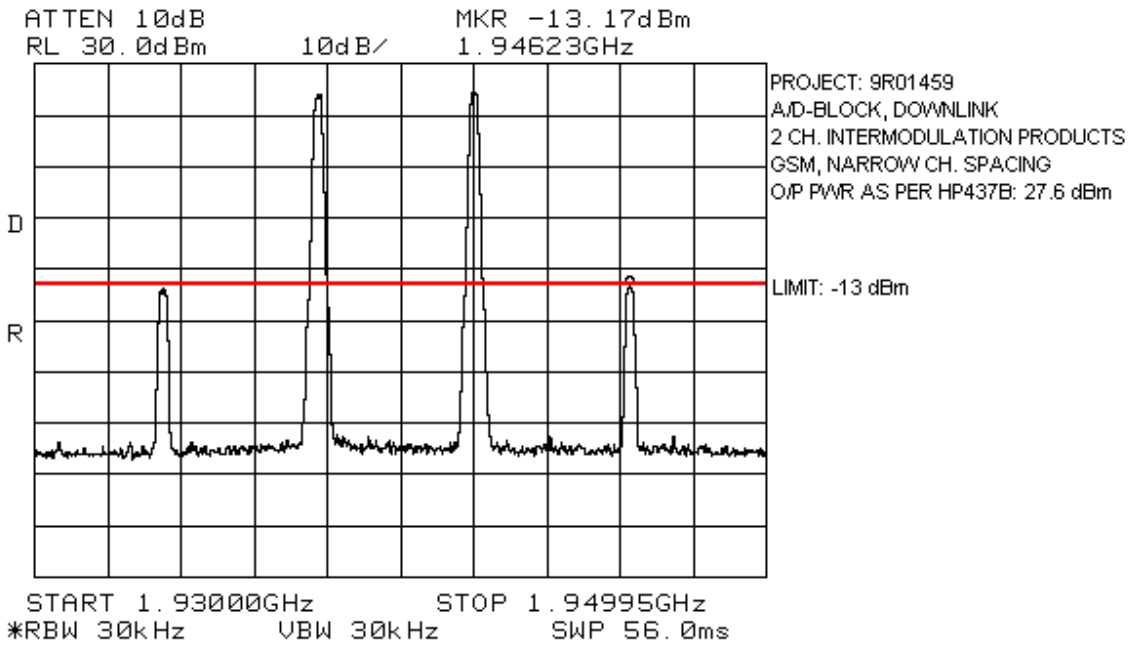

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.33dBm
1.8921GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
2 CH. INTERMODULATION PRODUCTS
GSM, WIDE CH. SPACING
O/P PWR AS PER HP437B:27.9 dBm
LIMIT: -13 dBm
R
CENTER 1.8775GHz
SPAN 100.0MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

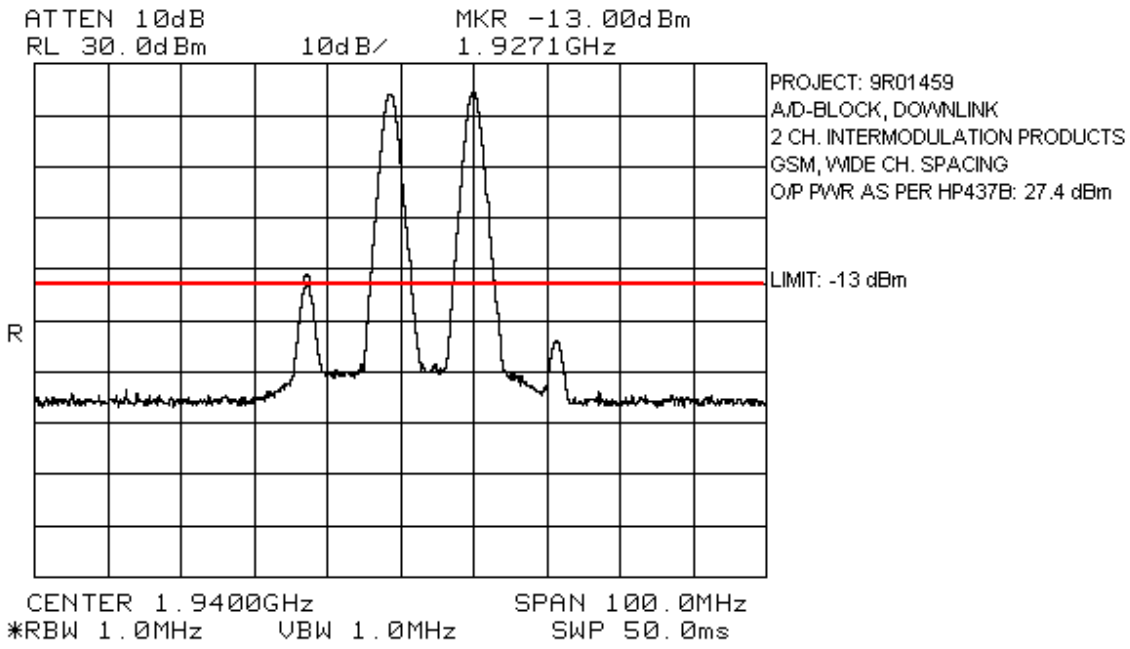

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.00dBm
1.87306GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
2 CH. INTERMODULATION PRODUCTS
TDMA, NARROW CH. SPACING
O/P PWR A SPER HP437B: 25.8 dBm
LIMIT: -13 dBm
R
START 1.87000GHz
STOP 1.88495GHz
*RBW 100kHz
VBW 100kHz
SWP 50.0ms

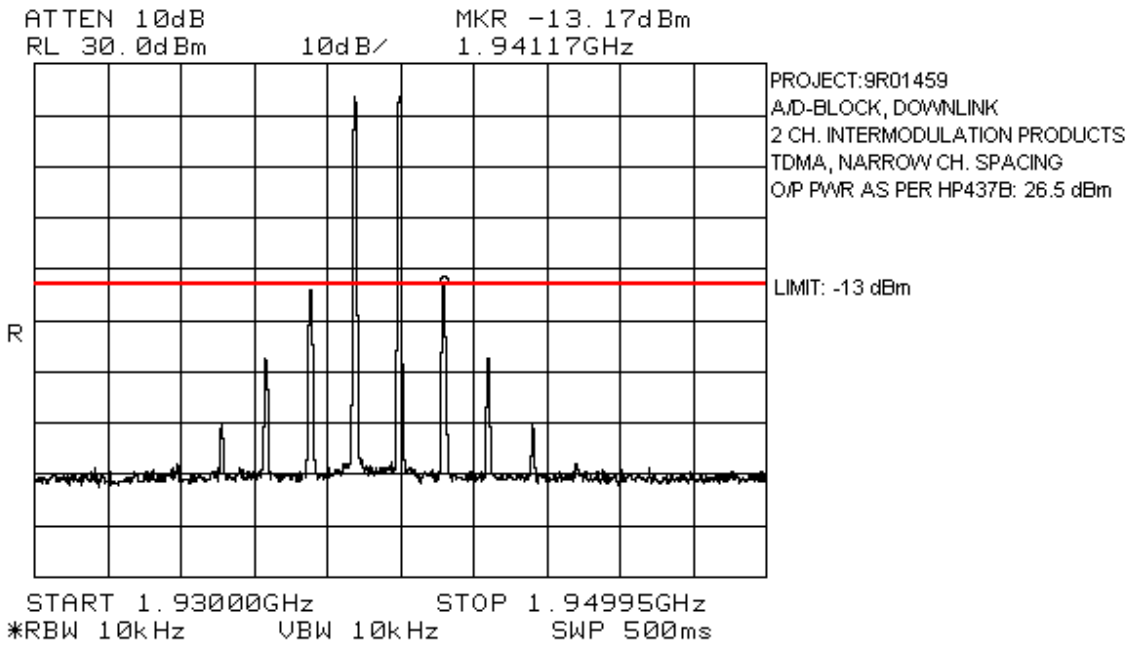

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.17dBm
1.89214GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
2 CH. INTERMODULATION PRODUCTS
TDMA, WIDE CH. SPACING
O/P PWR AS PER HP437B: 25.4dBm
LIMIT; -13 dBm
R
CENTER 1.87748GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

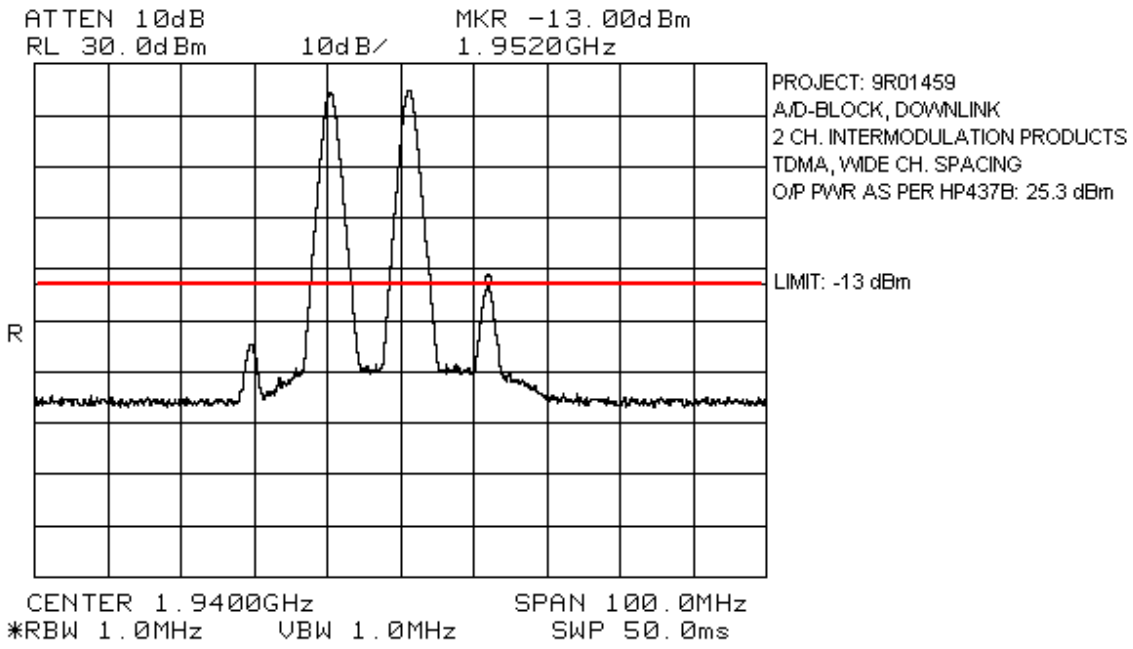

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.00dBm
1.93522GHz
PROJECT: 9R01459
DOWNLINK, A/D-BLOCK
2 CH. INTERMODULATION PRODUCTS
CDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 24.8 dBm
LIMIT: -13 dBm
R
START 1.93000GHz
STOP 1.94995GHz
*RBW 300kHz
VBW 300kHz
SWP 50.0ms

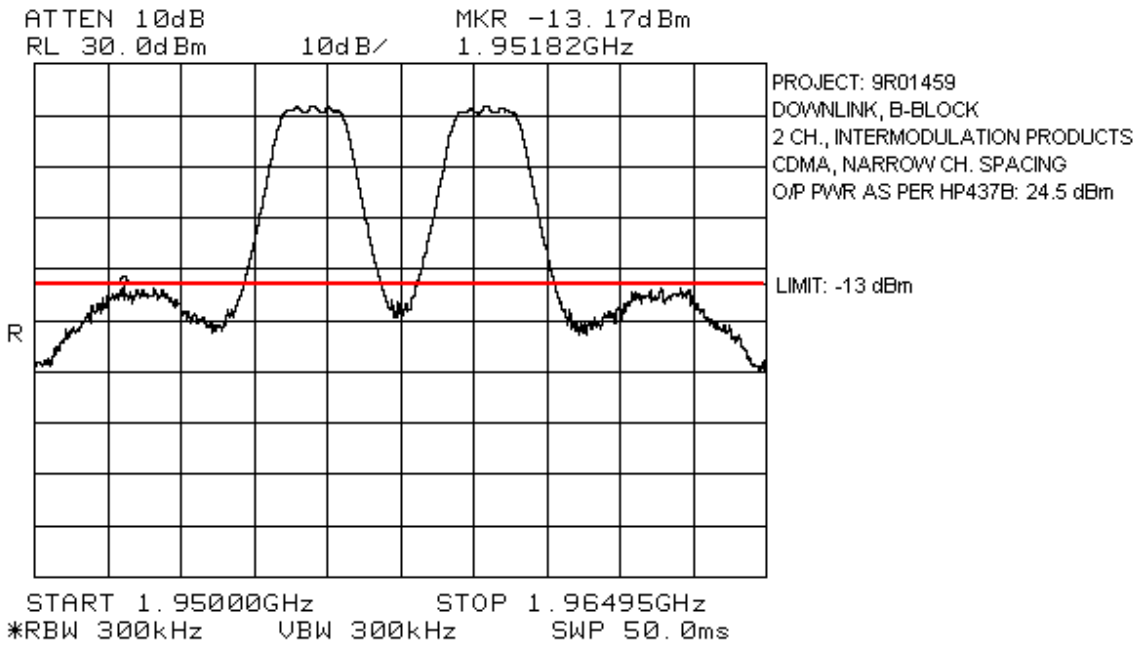

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.33dBm
1.95206GHz
PROJECT: 9R01459
DOWNLINK, A/D-BLOCK
2 CH. INTERMODULATION PRODUCTS
CDMA, WIDE CH. SPACING
O/P PWR AS PER HP437B: 23.2 dBm
LIMIT: -13 dBm
R
CENTER 1.93998GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

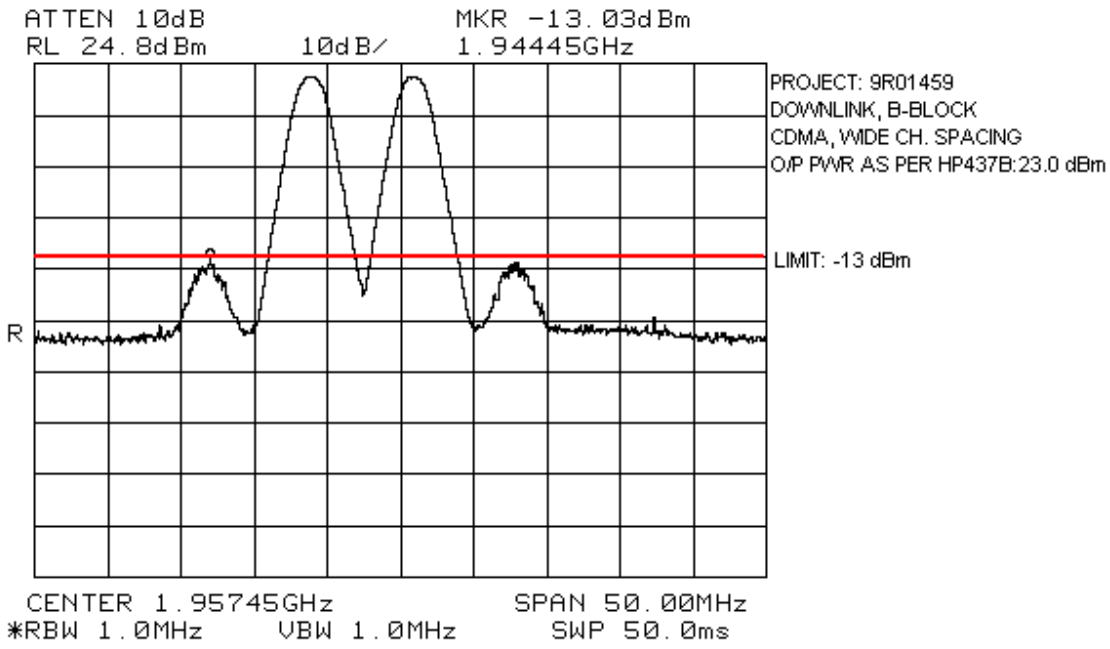

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.17dBm
1.94623GHz
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
2 CH. INTERMODULATION PRODUCTS
GSM, NARROW CH. SPACING
O/P PWR AS PER HP437B: 27.6 dBm
D
LIMIT: -13 dBm
R
START 1.93000GHz
STOP 1.94995GHz
*RBW 30kHz
VBW 30kHz
SWP 56.0ms

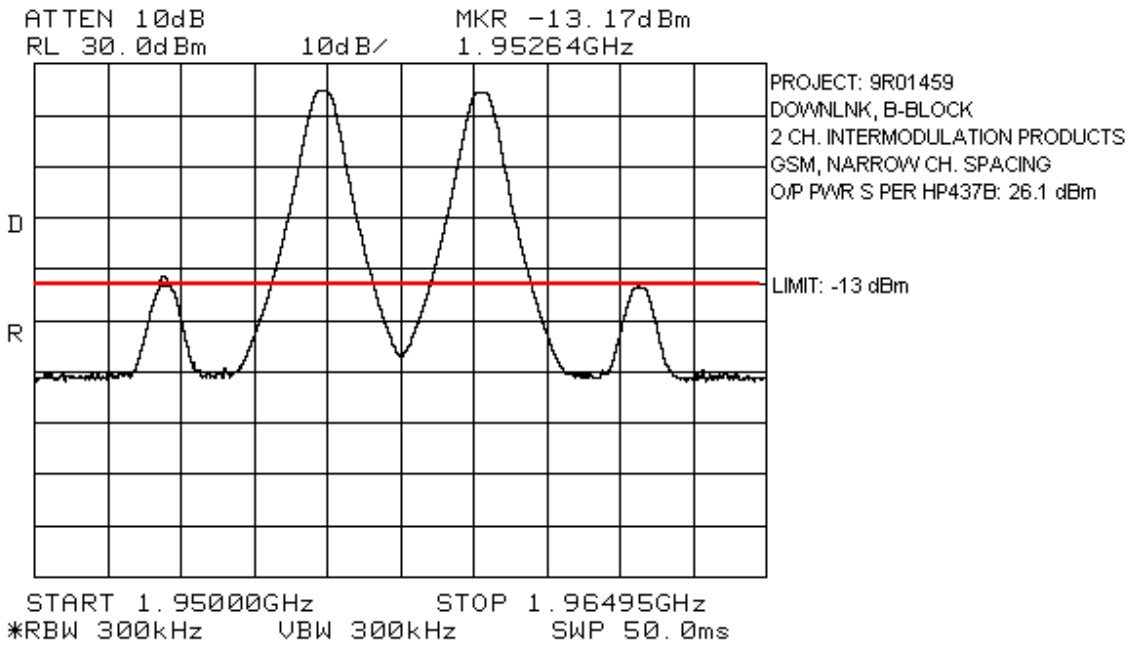

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.00dBm
1.9271GHz
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
2 CH. INTERMODULATION PRODUCTS
GSM, WIDE CH. SPACING
O/P PWR AS PER HP437B: 27.4 dBm
LIMIT: -13 dBm
R
CENTER 1.9400GHz
SPAN 100.0MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

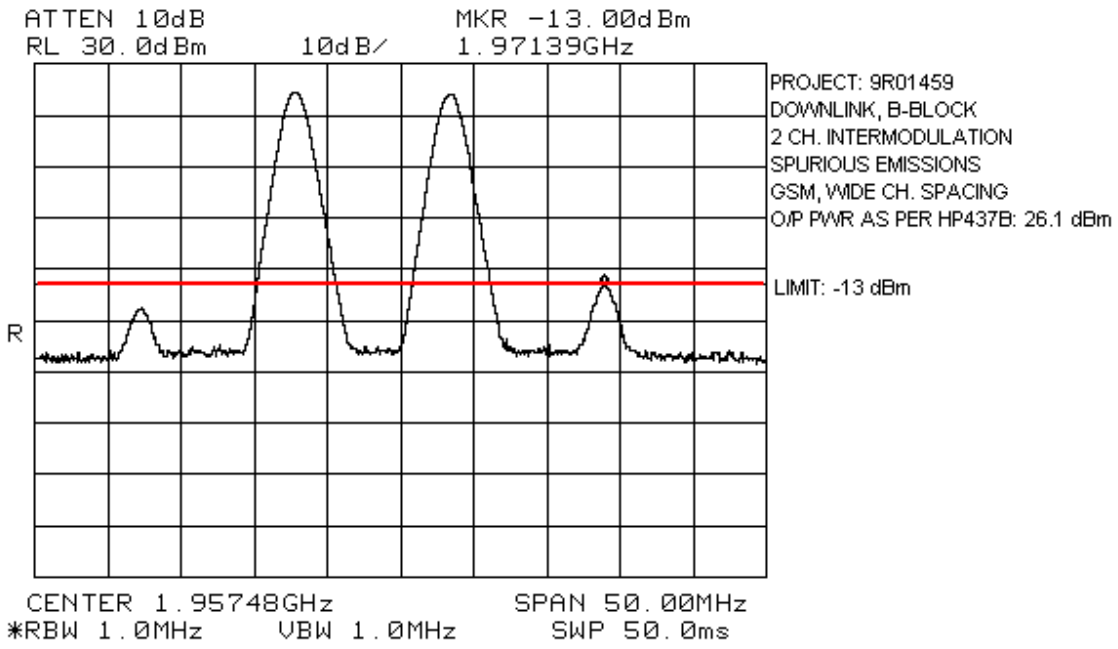

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.17dBm
1.94117GHz
PROJECT:9R01459
A/D-BLOCK, DOWNLINK
2 CH. INTERMODULATION PRODUCTS
TDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 26.5 dBm
LIMIT: -13 dBm
R
START 1.93000GHz
STOP 1.94995GHz
*RBW 10kHz
VBW 10kHz
SWP 500ms

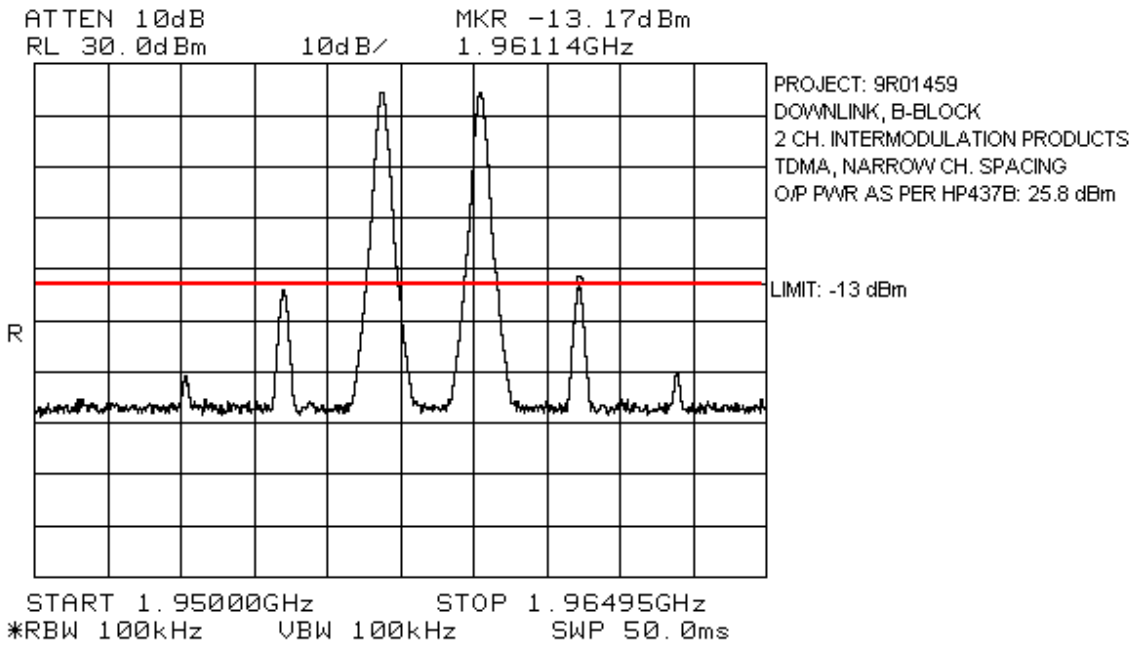

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.00dBm
1.9520GHz
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
2 CH. INTERMODULATION PRODUCTS
TDMA, WIDE CH. SPACING
O/P PWR AS PER HP437B: 25.3 dBm
LIMIT: -13 dBm
R
CENTER 1.9400GHz
SPAN 100.0MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

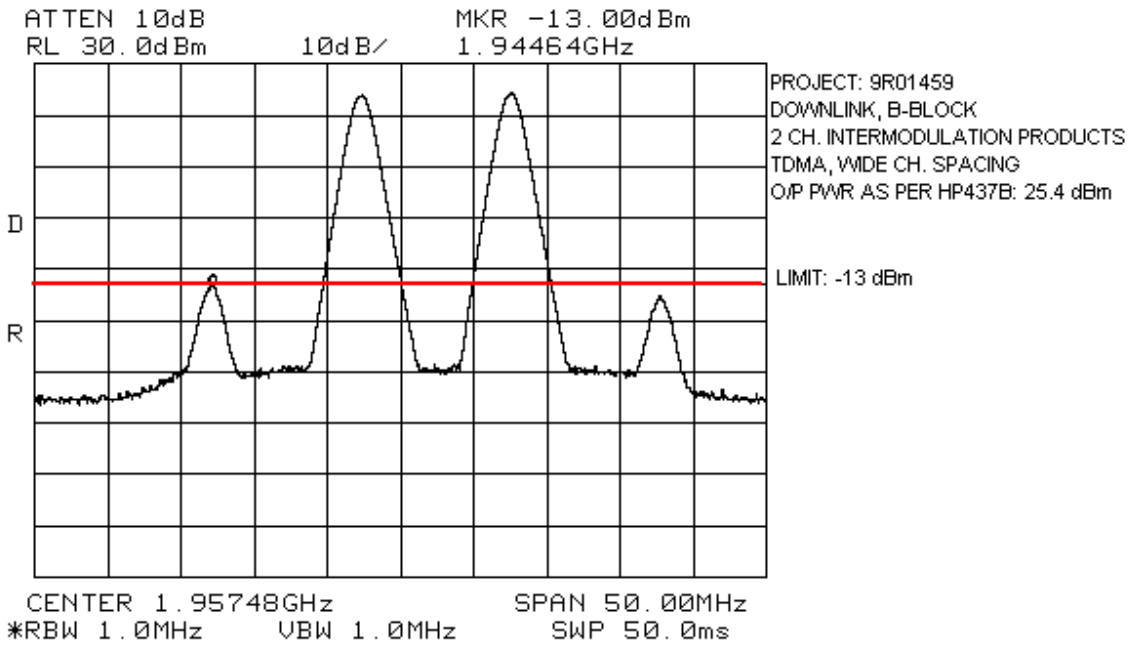

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.17dBm
1.95182GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
2 CH., INTERMODULATION PRODUCTS
CDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 24.5 dBm
LIMIT: -13 dBm
R
START 1.95000GHz
STOP 1.96495GHz
*RBW 300kHz
VBW 300kHz
SWP 50.0ms

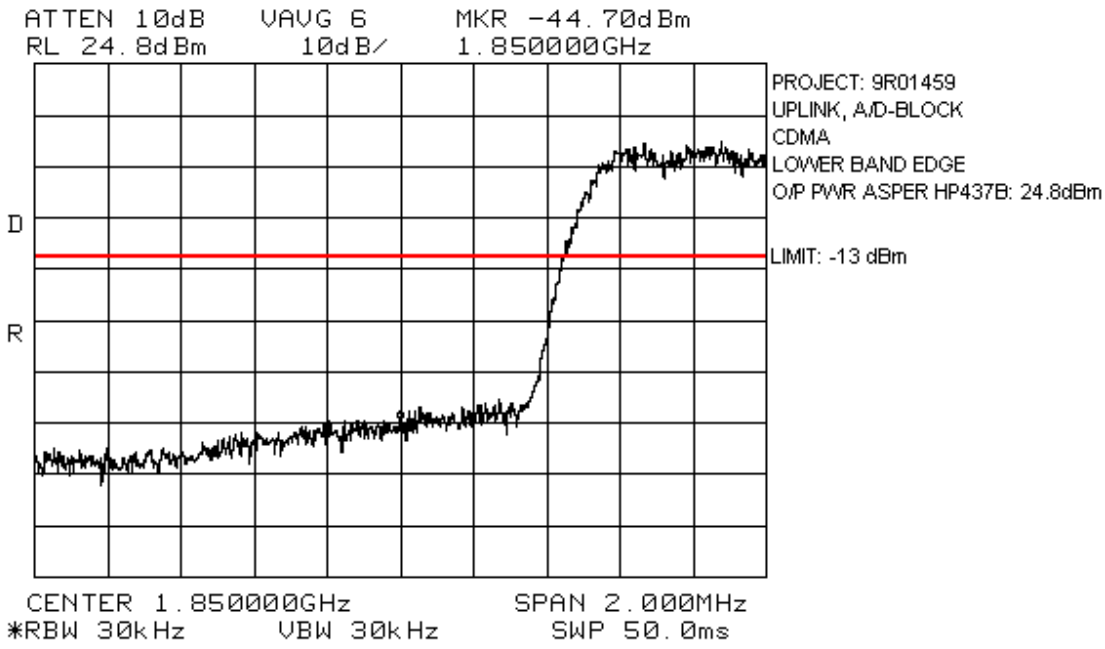

ATTEN 10dB
RL 24.8dBm
10dB/
MKR -13.03dBm
1.94445GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
CDMA, WIDE CH. SPACING
O/P PWR AS PER HP437B:23.0 dBm
LIMIT: -13 dBm
R
CENTER 1.95745GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

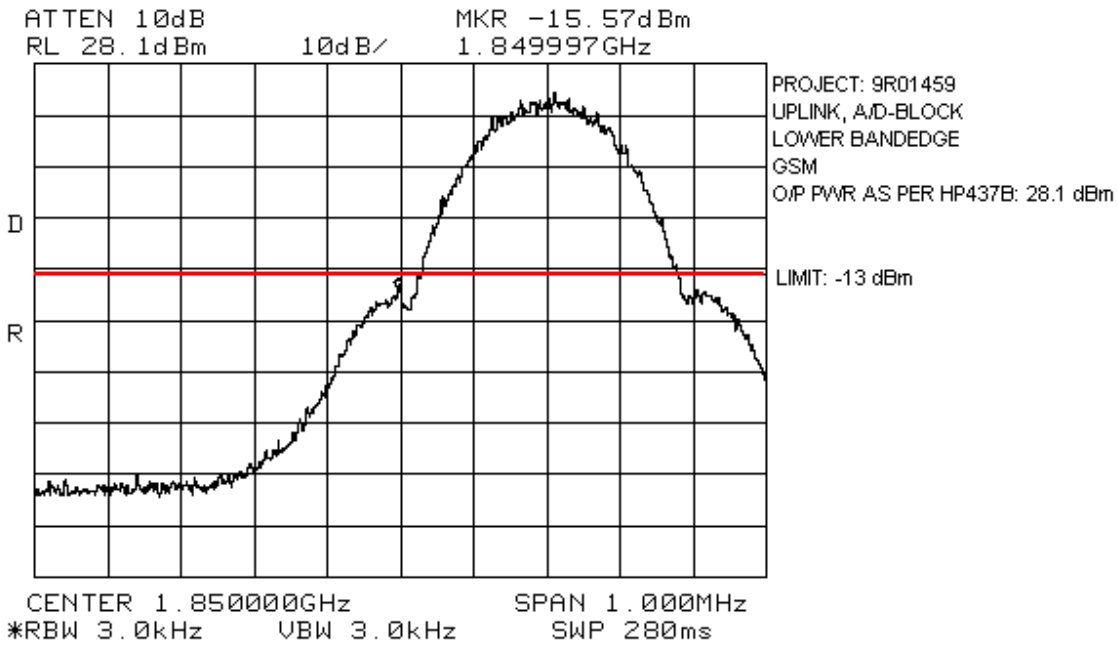

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.17dBm
1.95264GHz
PROJECT: 9R01459
DOWNLNK, B-BLOCK
2 CH. INTERMODULATION PRODUCTS
GSM, NARROW CH. SPACING
O/P PWR S PER HP437B: 26.1 dBm
D
R
LIMIT: -13 dBm
START 1.95000GHz
STOP 1.96495GHz
*RBW 300kHz
VBW 300kHz
SWP 50.0ms

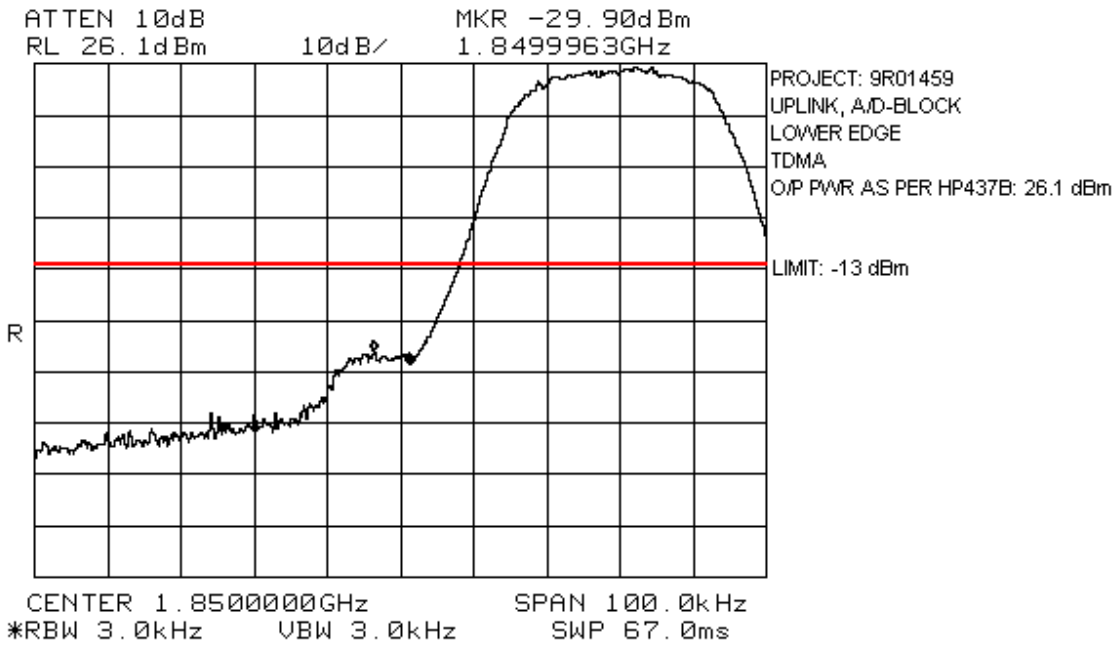

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.00dBm
1.97139GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
2 CH. INTERMODULATION
SPURIOUS EMISSIONS
GSM, WIDE CH. SPACING
O/P PWR AS PER HP437B: 26.1 dBm
LIMIT: -13 dBm
R
CENTER 1.95748GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

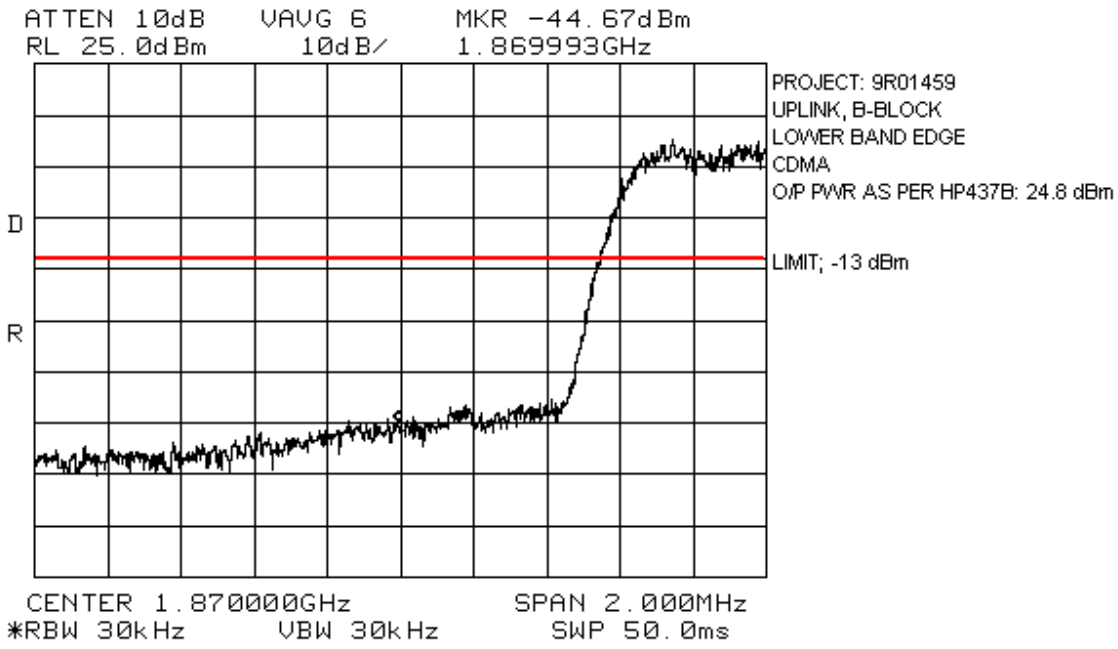

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.17dBm
1.96114GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
2 CH. INTERMODULATION PRODUCTS
TDMA, NARROW CH. SPACING
O/P PWR AS PER HP437B: 25.8 dBm
LIMIT: -13 dBm
R
START 1.95000GHz
STOP 1.96495GHz
*RBW 100kHz
VBW 100kHz
SWP 50.0ms

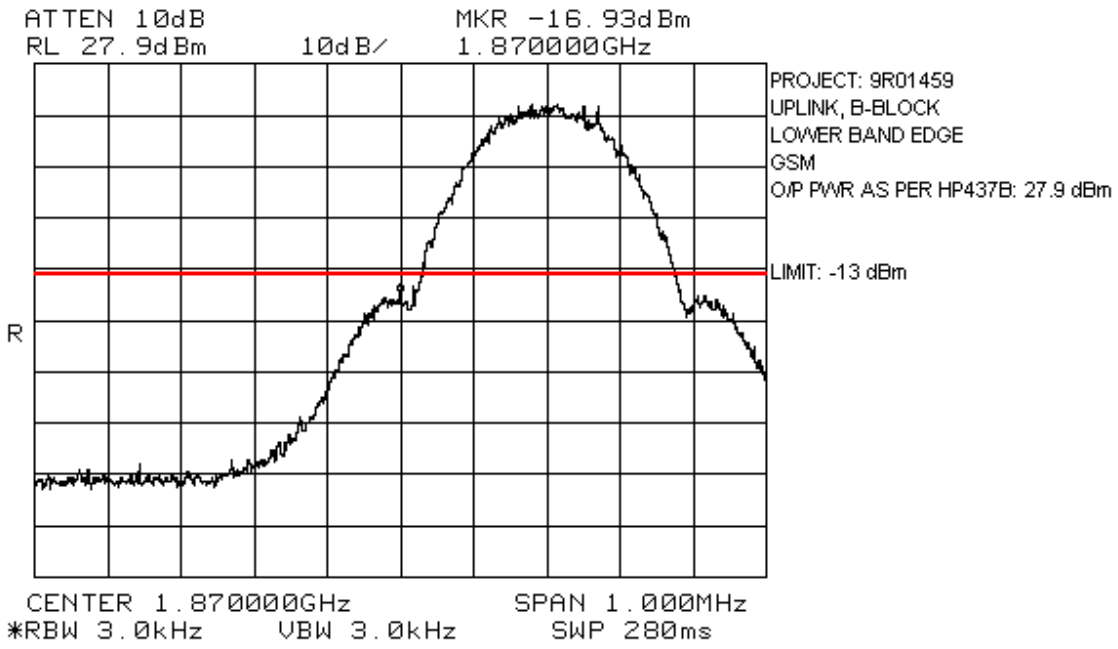

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -13.00dBm
1.94464GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
2 CH. INTERMODULATION PRODUCTS
TDMA, WIDE CH. SPACING
O/P PWR AS PER HP437B: 25.4 dBm
D
LIMIT: -13 dBm
R
CENTER 1.95748GHz
SPAN 50.00MHz
*RBW 1.0MHz
VBW 1.0MHz
SWP 50.0ms

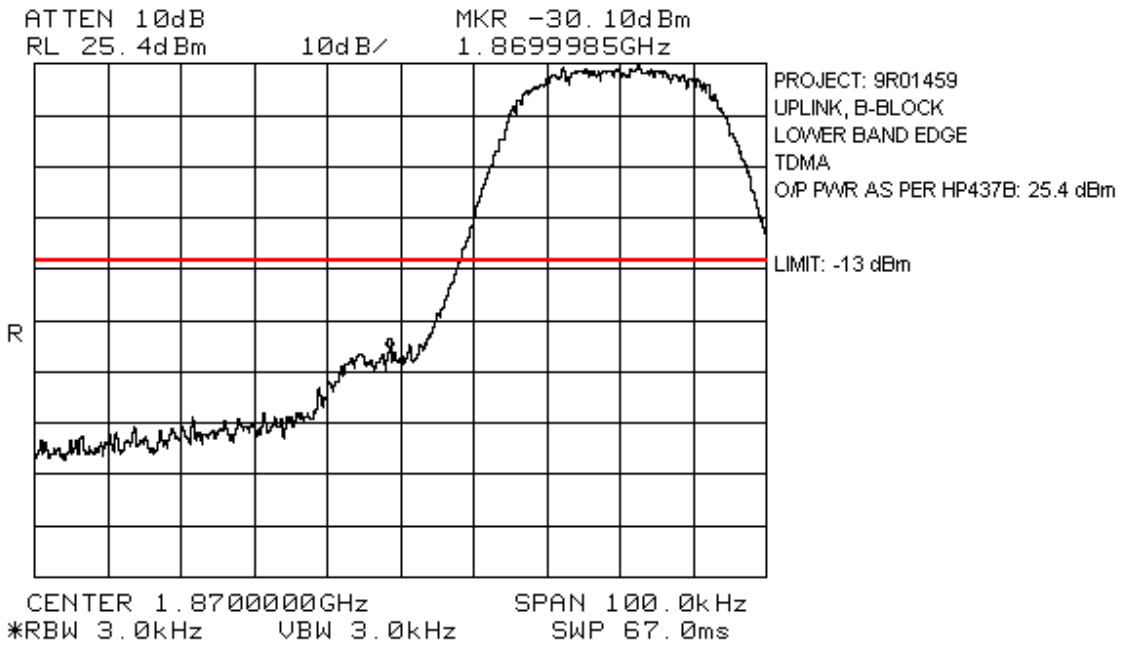

ATTEN 10dB
RL 24.8dBm
VAVG 6
10dB/
MKR -44.70dBm
1.850000GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
CDMA
LOWER BAND EDGE
O/P PWR ASPER HP437B: 24.8dBm
D
LIMIT: -13 dBm
R
CENTER 1.850000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

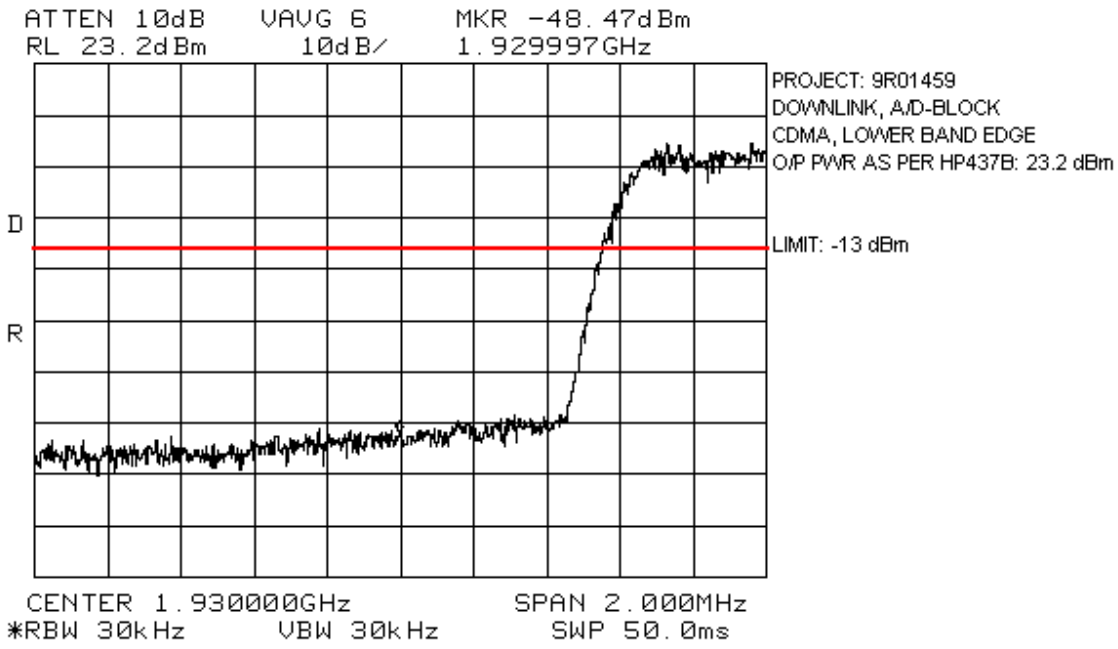

ATTEN 10dB
RL 28.1dBm
10dB/
MKR -15.57dBm
1.849997GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
LOWER BANDEDGE
GSM
O/P PWR AS PER HP437B: 28.1 dBm
D
LIMIT: -13 dBm
R
CENTER 1.850000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

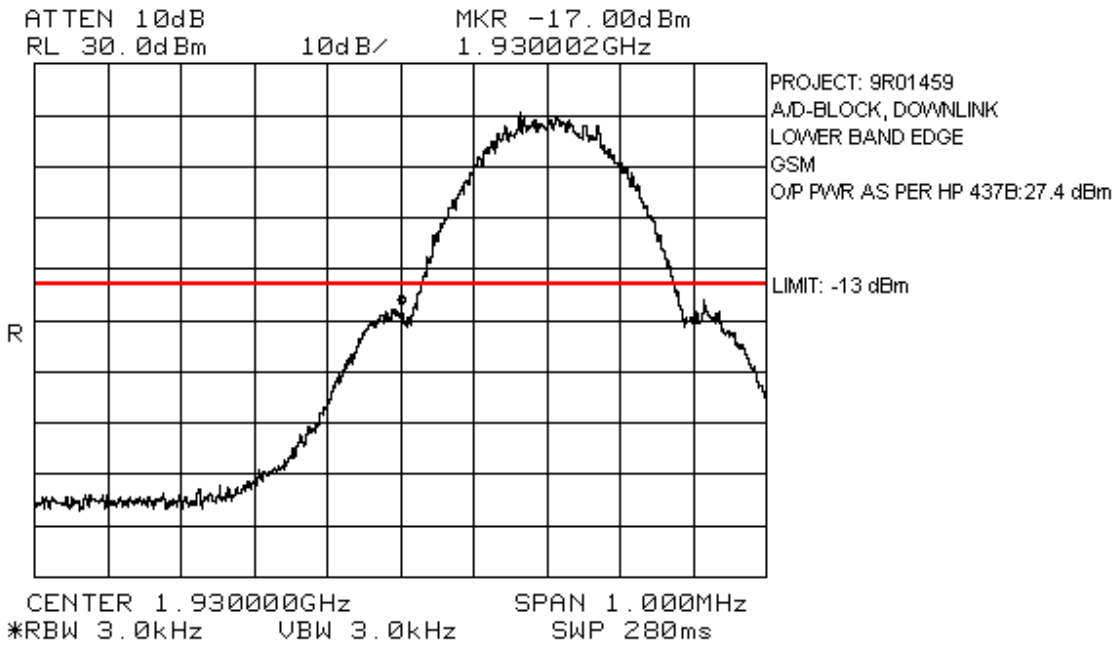

ATTEN 10dB
RL 26.1dBm
10dB/
MKR -29.90dBm
1.8499963GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
LOWER EDGE
TDMA
O/P PWR AS PER HP437B: 26.1 dBm
LIMIT: -13 dBm
R
CENTER 1.8500000GHz
SPAN 100.0kHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 67.0ms

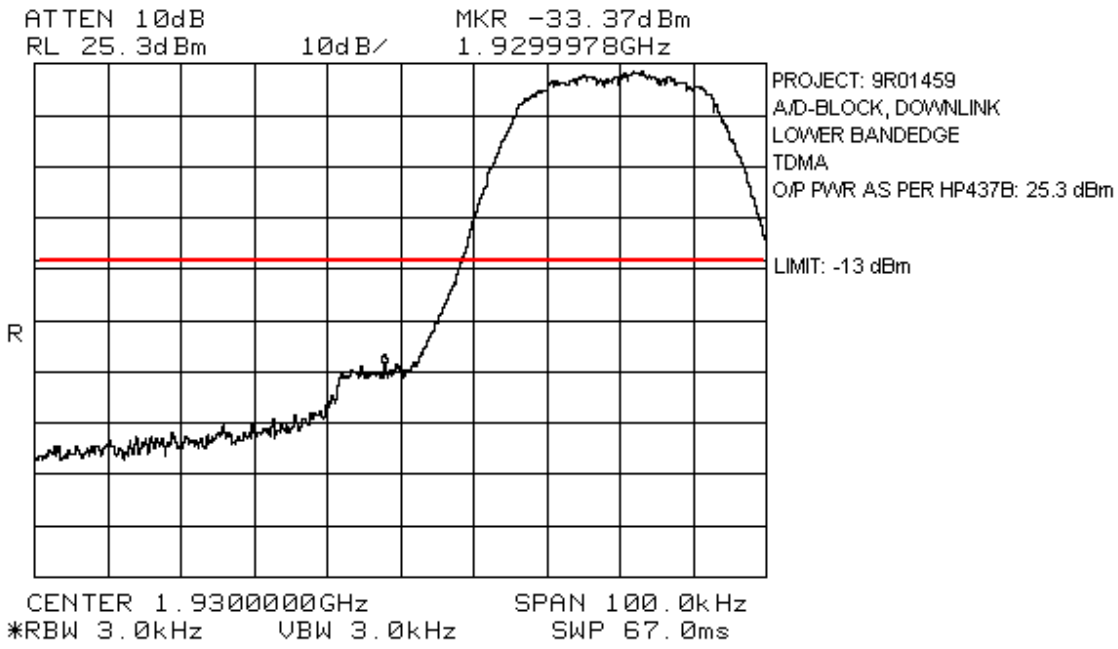

ATTEN 10dB
RL 25.0dBm
VAVG 6
10dB/
MKR -44.67dBm
1.869993GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
LOWER BAND EDGE
CDMA
O/P PWR AS PER HP437B: 24.8 dBm
LIMIT; -13 dBm
D
R
CENTER 1.870000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

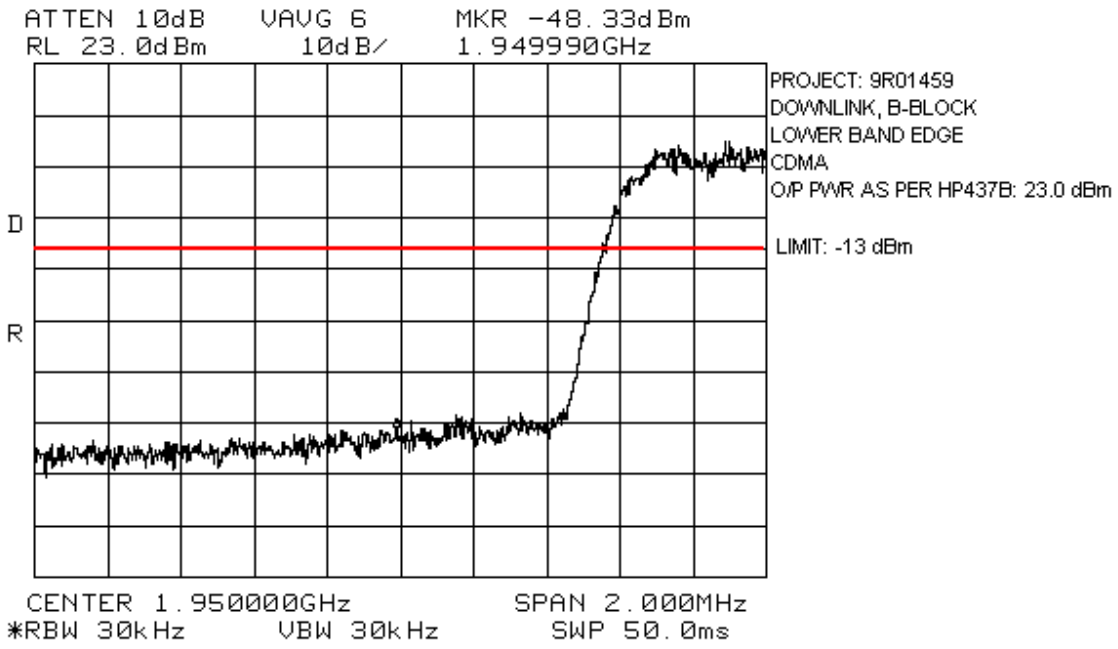

ATTEN 10dB
RL 27.9dBm
10dB/
MKR -16.93dBm
1.870000GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
LOWER BAND EDGE
GSM
O/P PWR AS PER HP437B: 27.9 dBm
LIMIT: -13 dBm
R
CENTER 1.870000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

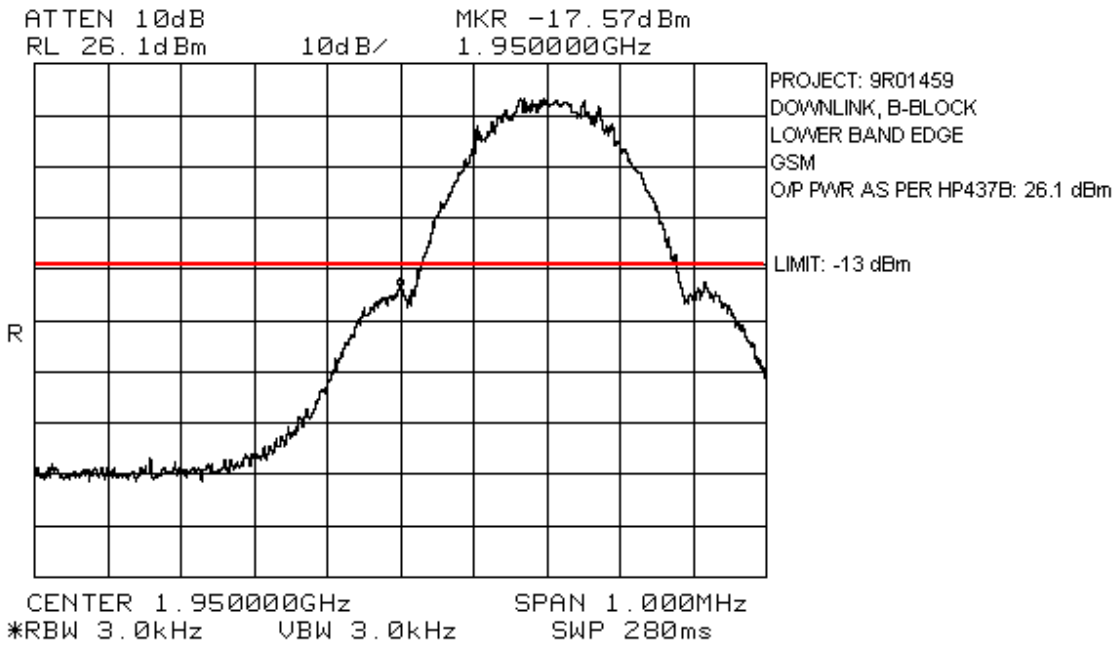

ATTEN 10dB
RL 25.4dBm
10dB/
MKR -30.10dBm
1.8699985GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
LOWER BAND EDGE
TDMA
O/P PWR AS PER HP437B: 25.4 dBm
LIMIT: -13 dBm
R
CENTER 1.8700000GHz
SPAN 100.0kHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 67.0ms

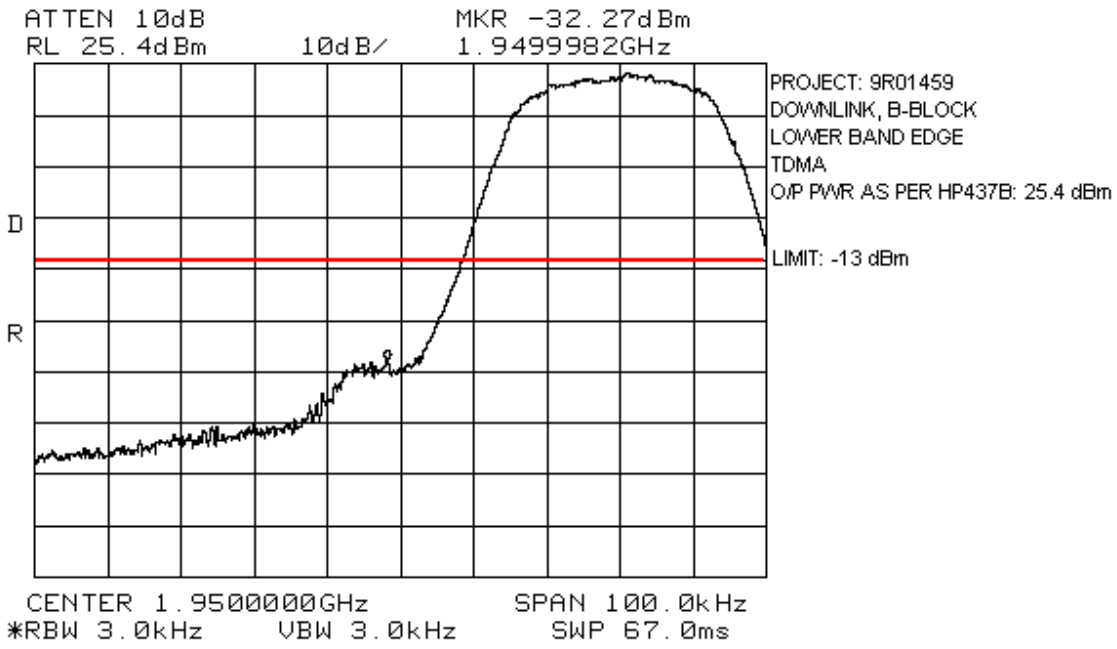

ATTEN 10dB
RL 23.2dBm
VAVG 6
10dB/
MKR -48.47dBm
1.929997GHz
PROJECT: 9R01459
DOWNLINK, A/D-BLOCK
CDMA, LOWER BAND EDGE
O/P PWR AS PER HP437B: 23.2 dBm
D
LIMIT: -13 dBm
R
CENTER 1.930000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

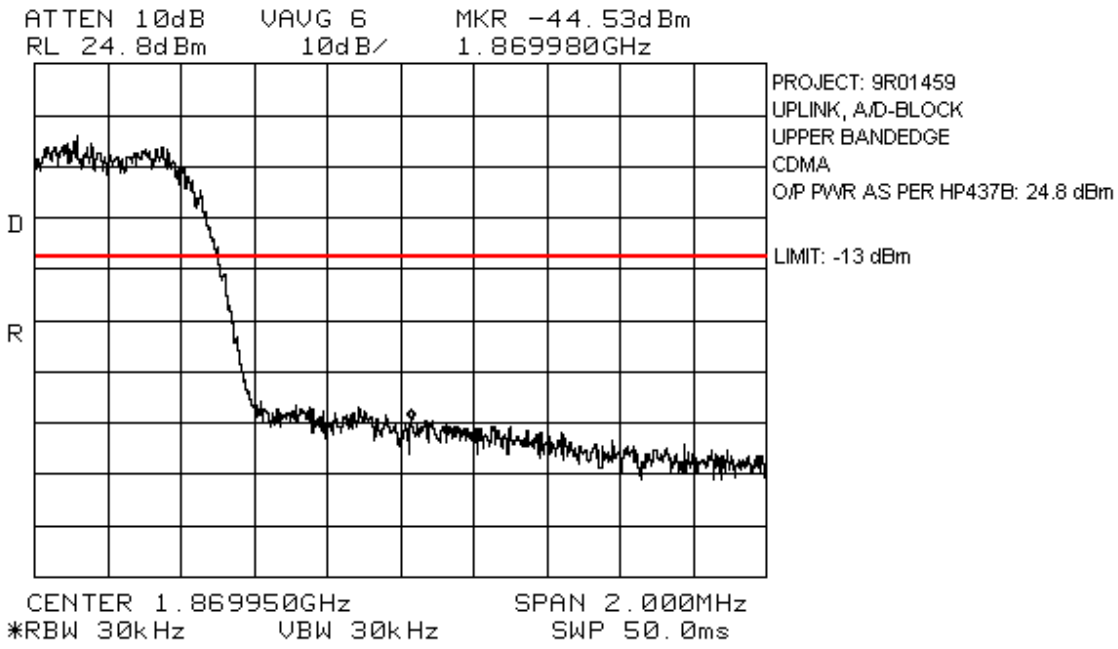

ATTEN 10dB
RL 30.0dBm
10dB/
MKR -17.00dBm
1.930002GHz
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
LOWER BAND EDGE
GSM
O/P PWR AS PER HP 437B:27.4 dBm
LIMIT: -13 dBm
R
CENTER 1.930000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

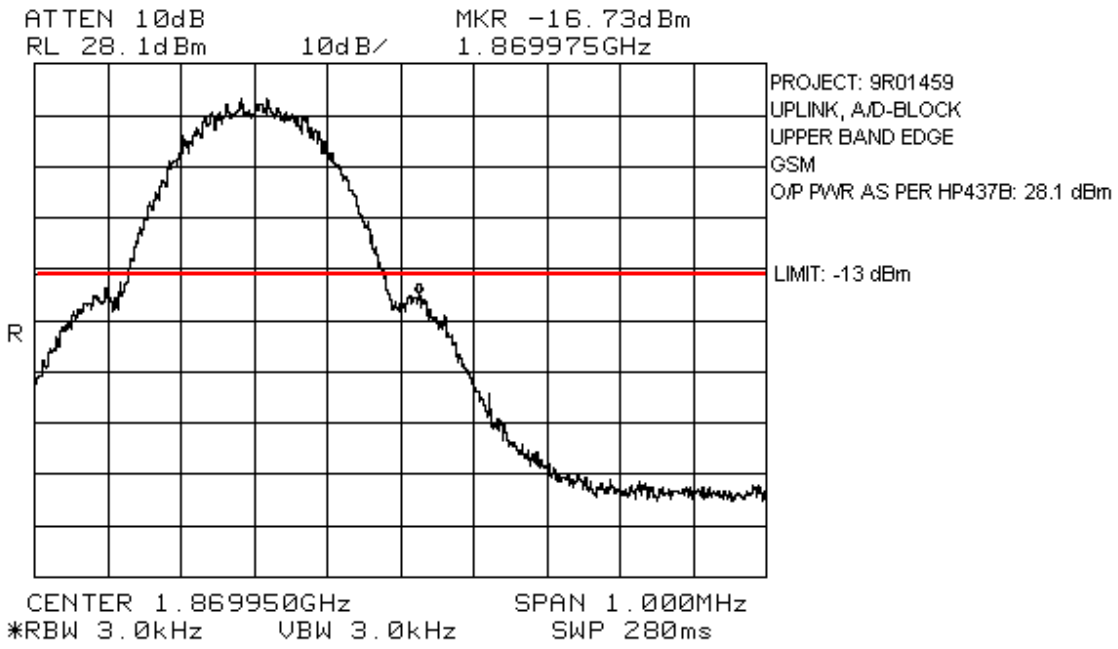

ATTEN 10dB
RL 25.3dBm
10dB/
MKR -33.37dBm
1.9299978GHz
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
LOWER BANDEDGE
TDMA
O/P PWR AS PER HP437B: 25.3 dBm
LIMIT: -13 dBm
R
CENTER 1.9300000GHz
SPAN 100.0kHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 67.0ms

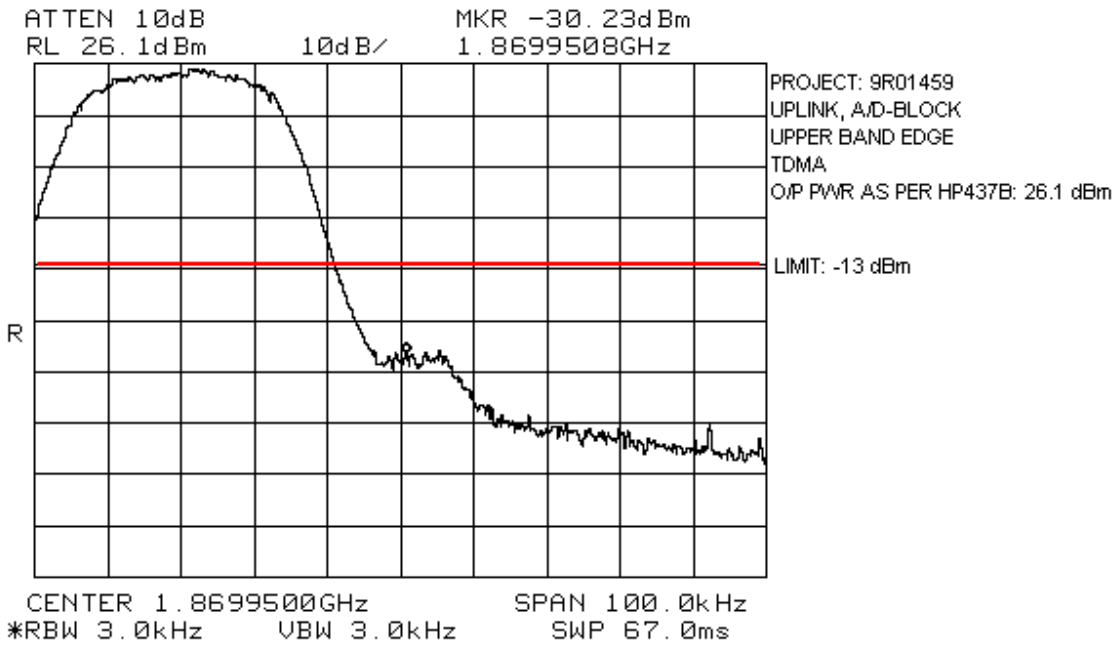

ATTEN 10dB
RL 23.0dBm
VAVG 6
10dB/
MKR -48.33dBm
1.949990GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
LOWER BAND EDGE
CDMA
O/P PWR AS PER HP437B: 23.0 dBm
D
LIMIT: -13 dBm
R
CENTER 1.950000GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

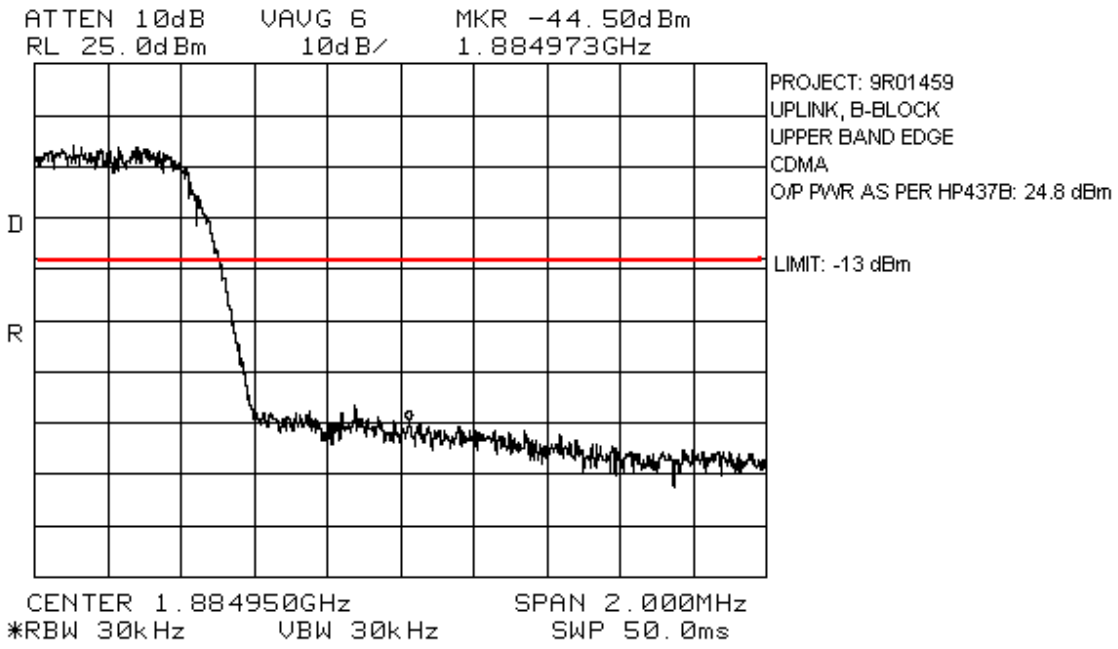

ATTEN 10dB
RL 26.1dBm
10dB/
MKR -17.57dBm
1.950000GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
LOWER BAND EDGE
GSM
O/P PWR AS PER HP437B: 26.1 dBm
LIMIT: -13 dBm
R
CENTER 1.950000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

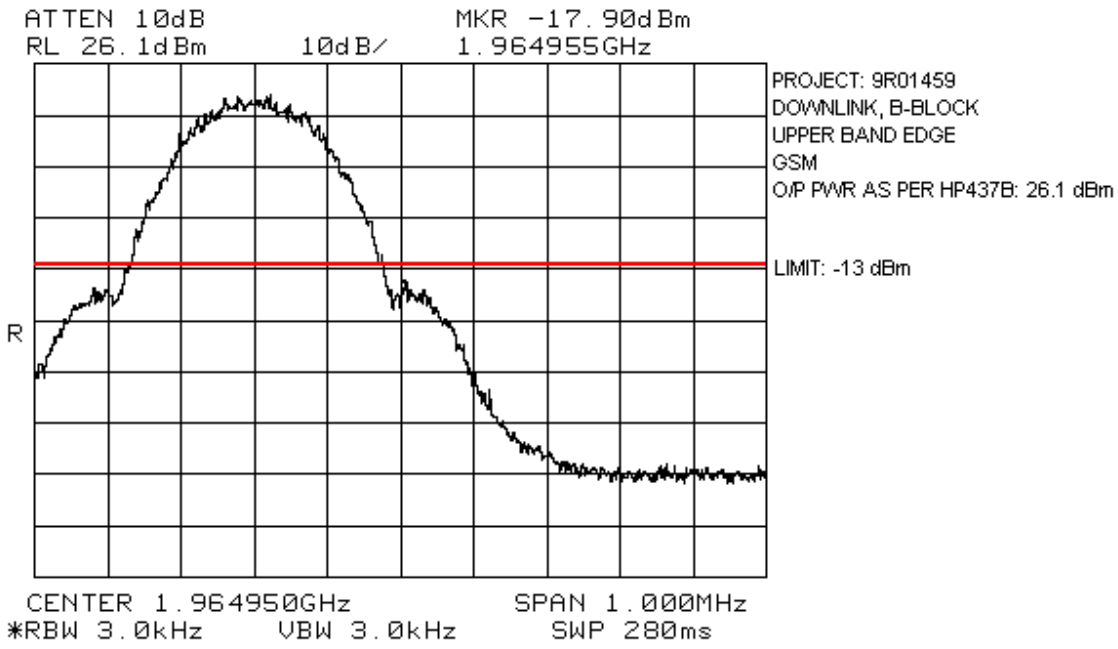

ATTEN 10dB
RL 25.4dBm
10dB/
MKR -32.27dBm
1.9499982GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
LOWER BAND EDGE
TDMA
O/P PWR AS PER HP437B: 25.4 dBm
D
LIMIT: -13 dBm
R
CENTER 1.9500000GHz
SPAN 100.0kHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 67.0ms

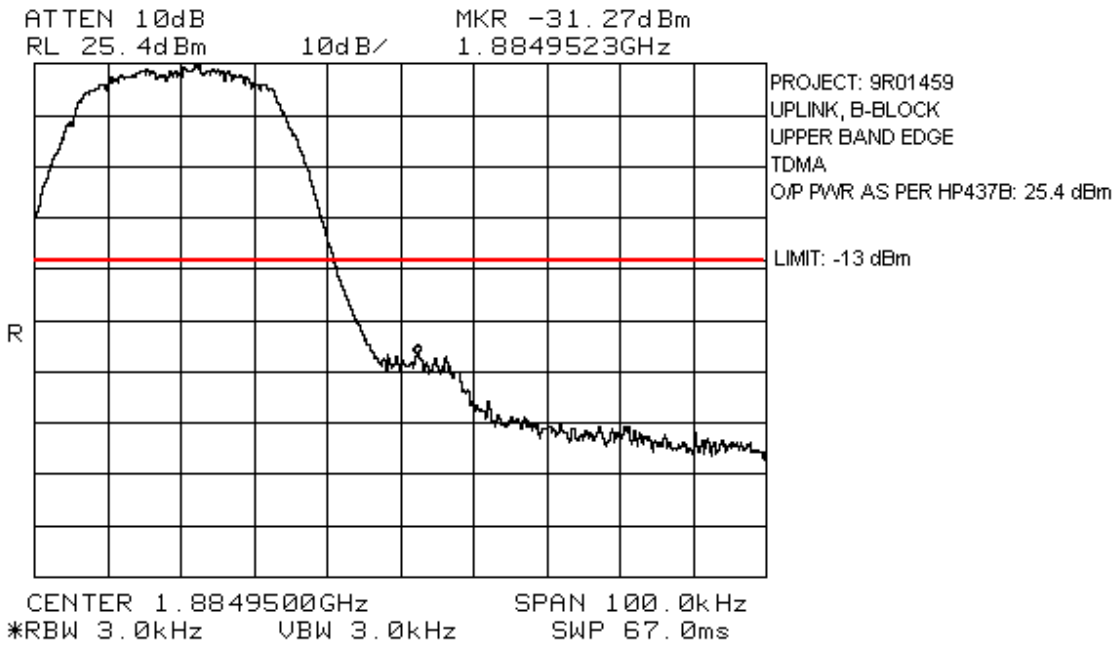

ATTEN 10dB
RL 24.8dBm
VAVG 6
10dB/
MKR -44.53dBm
1.869980GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
UPPER BANDEDGE
CDMA
O/P PWR AS PER HP437B: 24.8 dBm
D
LIMIT: -13 dBm
R
CENTER 1.869950GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

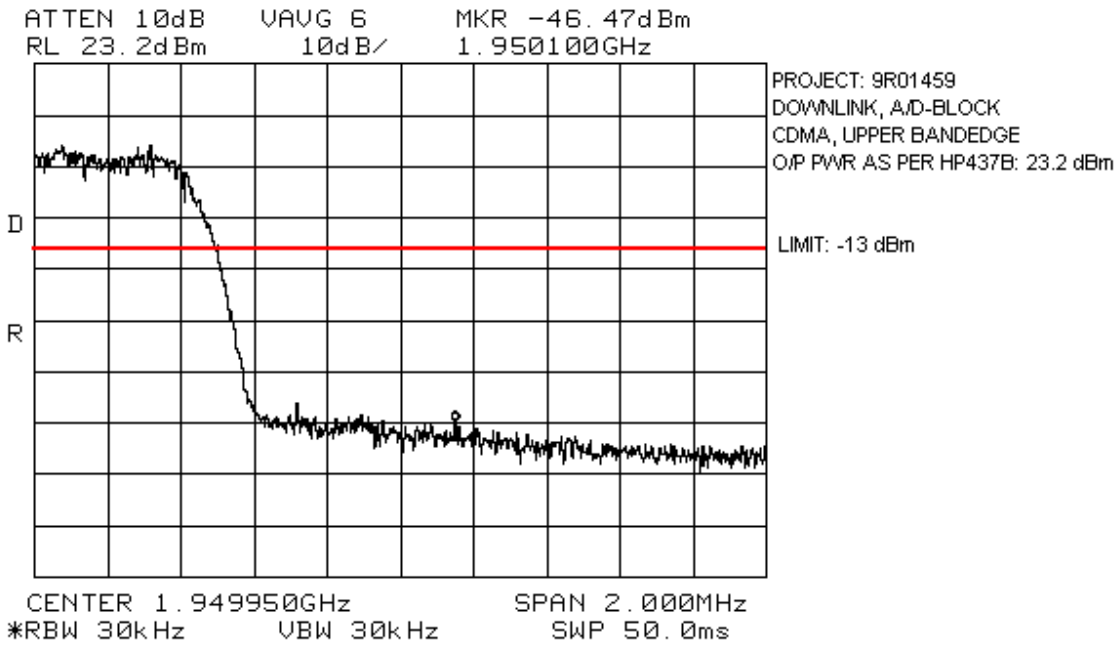

ATTEN 10dB
RL 28.1dBm
10dB/
MKR -16.73dBm
1.869975GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
UPPER BAND EDGE
GSM
O/P PWR AS PER HP437B: 28.1 dBm
LIMIT: -13 dBm
R
CENTER 1.869950GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

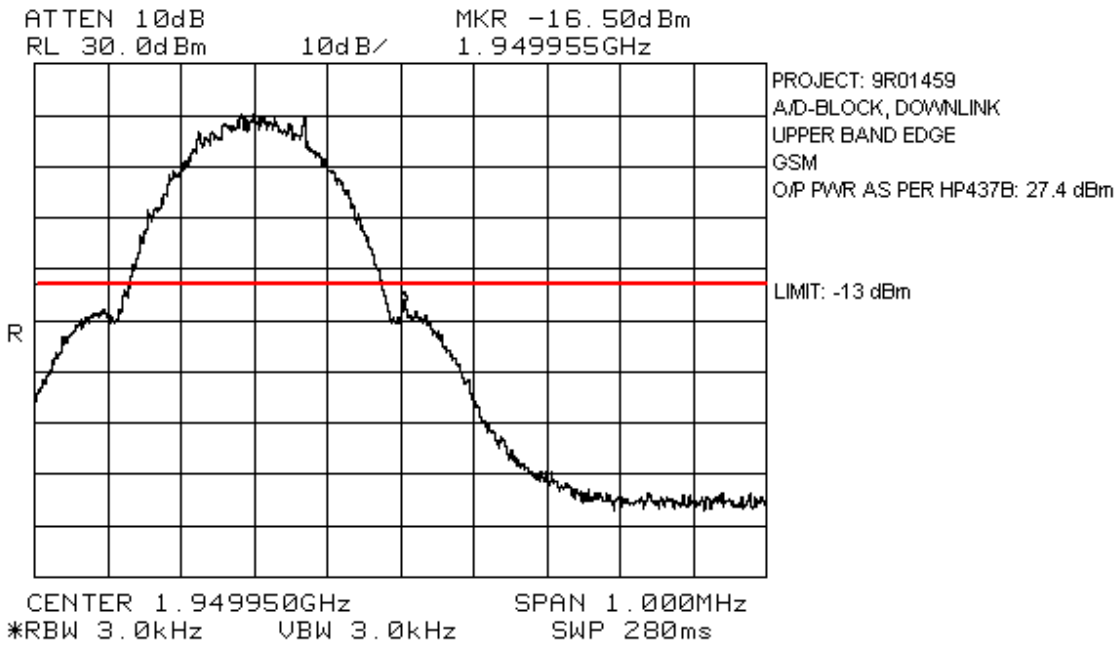

ATTEN 10dB
RL 26.1dBm
10dB/
MKR -30.23dBm
1.8699508GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
UPPER BAND EDGE
TDMA
O/P PWR AS PER HP437B: 26.1 dBm
LIMIT: -13 dBm
R
CENTER 1.8699500GHz
SPAN 100.0kHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 67.0ms

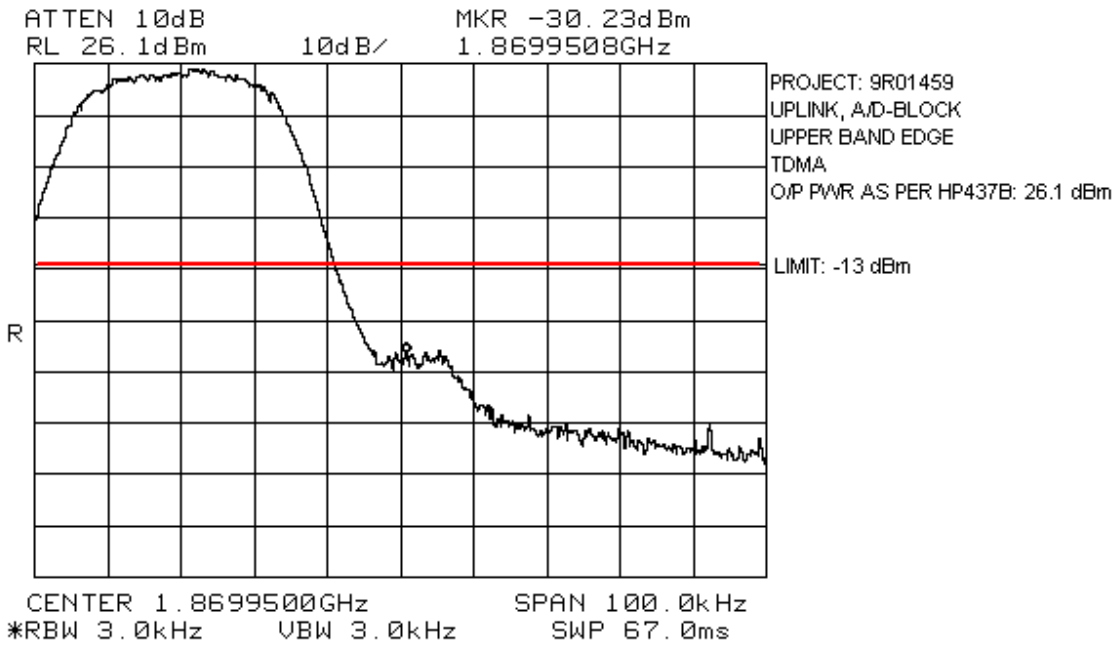

ATTEN 10dB
RL 25.0dBm
VAVG 6
10dB/
MKR -44.50dBm
1.884973GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
UPPER BAND EDGE
CDMA
O/P PWR AS PER HP437B: 24.8 dBm
LIMIT: -13 dBm
D
R
CENTER 1.884950GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms

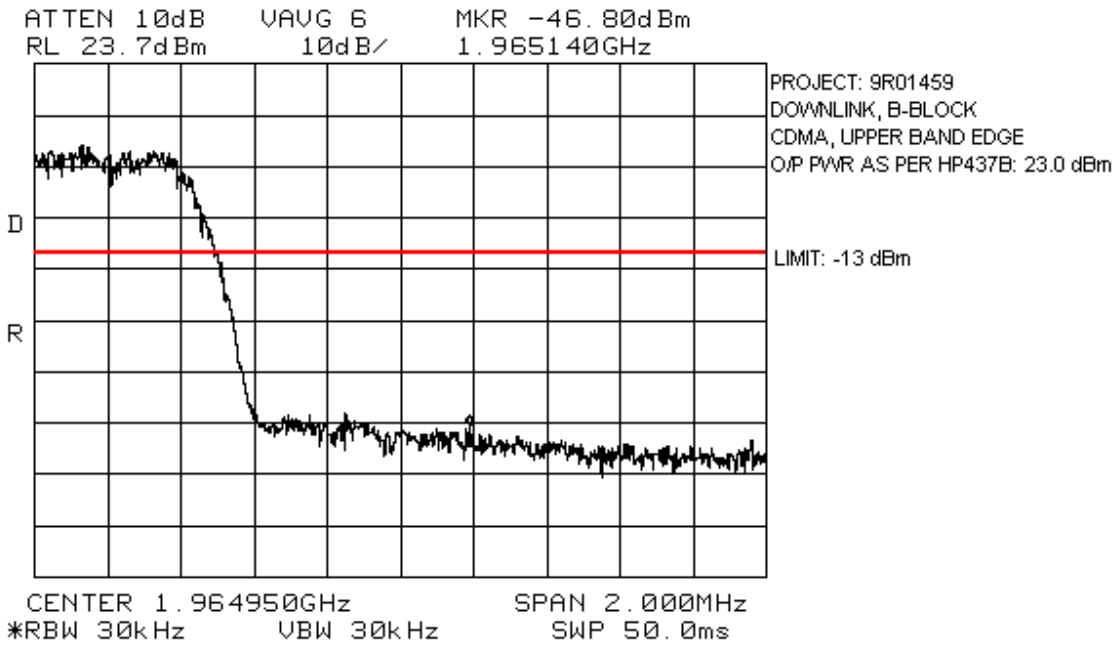

ATTEN 10dB
RL 26.1dBm
10dB/
MKR -17.90dBm
1.964955GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
UPPER BAND EDGE
GSM
O/P PWR AS PER HP437B: 26.1 dBm
LIMIT: -13 dBm
R
CENTER 1.964950GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms

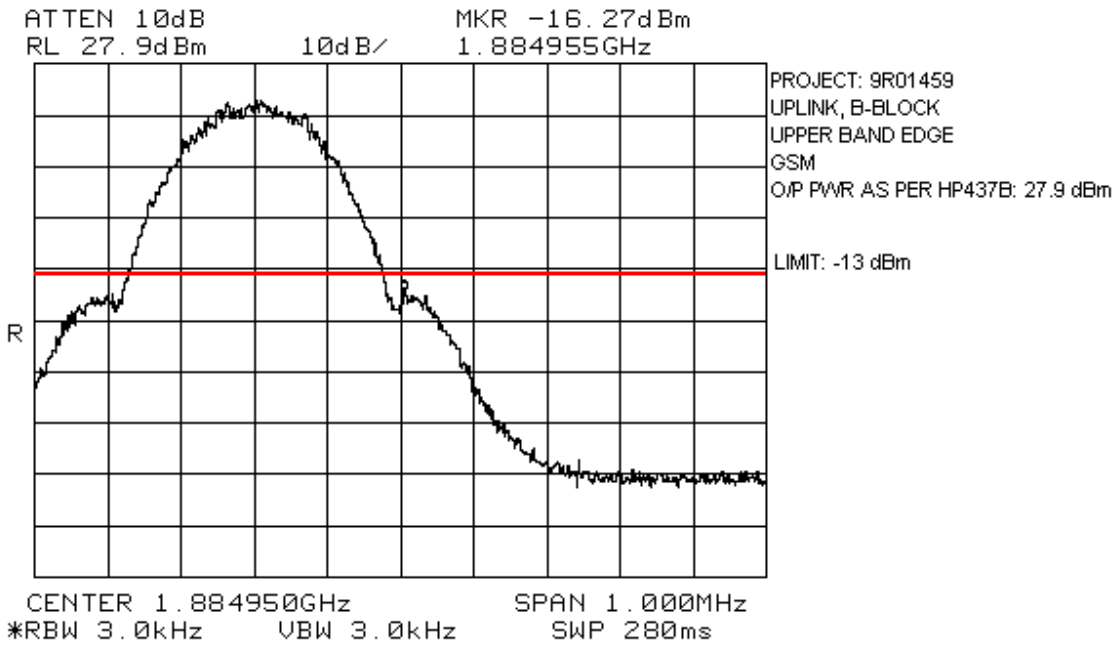

ATTEN 10dB
RL 25.4dBm
10dB/
MKR -31.27dBm
1.8849523GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
UPPER BAND EDGE
TDMA
O/P PWR AS PER HP437B: 25.4 dBm
LIMIT: -13 dBm
R
CENTER 1.8849500GHz
SPAN 100.0kHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 67.0ms

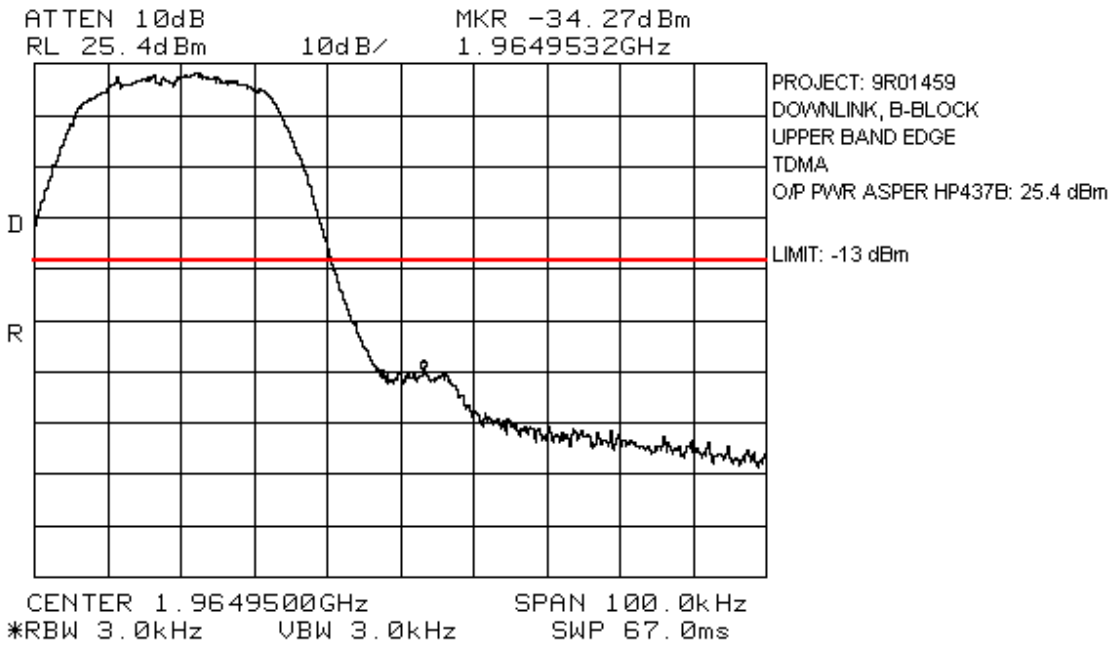

ATTEN 10dB
RL 23.2dBm
VAVG 6
10dB/
MKR -46.47dBm
1.950100GHz
PROJECT: 9R01459
DOWNLINK, A/D-BLOCK
CDMA, UPPER BANDEDGE
O/P PWR AS PER HP437B: 23.2 dBm
D
LIMIT: -13 dBm
R
CENTER 1.949950GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms


ATTEN 10dB
RL 30.0dBm
10dB/
MKR -16.50dBm
1.949955GHz
PROJECT: 9R01459
A/D-BLOCK, DOWNLINK
UPPER BAND EDGE
GSM
O/P PWR AS PER HP437B: 27.4 dBm
LIMIT: -13 dBm
R
CENTER 1.949950GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms


ATTEN 10dB
RL 26.1dBm
10dB/
MKR -30.23dBm
1.8699508GHz
PROJECT: 9R01459
UPLINK, A/D-BLOCK
UPPER BAND EDGE
TDMA
O/P PWR AS PER HP437B: 26.1 dBm
LIMIT: -13 dBm
R
CENTER 1.8699500GHz
SPAN 100.0kHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 67.0ms


ATTEN 10dB
RL 23.7dBm
VAVG 6
10dB/
MKR -46.80dBm
1.965140GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
CDMA, UPPER BAND EDGE
O/P PWR AS PER HP437B: 23.0 dBm
D
LIMIT: -13 dBm
R
CENTER 1.964950GHz
SPAN 2.000MHz
*RBW 30kHz
VBW 30kHz
SWP 50.0ms


ATTEN 10dB
RL 27.9dBm
10dB/
MKR -16.27dBm
1.884955GHz
PROJECT: 9R01459
UPLINK, B-BLOCK
UPPER BAND EDGE
GSM
O/P PWR AS PER HP437B: 27.9 dBm
LIMIT: -13 dBm
R
CENTER 1.884950GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 280ms


ATTEN 10dB
RL 25.4dBm
10dB/
MKR -34.27dBm
1.9649532GHz
PROJECT: 9R01459
DOWNLINK, B-BLOCK
UPPER BAND EDGE
TDMA
O/P PWR ASPER HP437B: 25.4 dBm
D
LIMIT: -13 dBm
R
CENTER 1.9649500GHz
SPAN 100.0kHz
*RBW 3.0kHz
VBW 3.0kHz
SWP 67.0ms

Section 6. Field Strength of Spurious

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.917(e)
TESTED BY: Kevin Carr	DATE: April 28, 1999

Test Results: Complies.
The maximum field strength is 32.0 dBµV/m @ 3m @ 36.9 MHz is 8.0 below specified limit.

Test Data: See attached table.

Test Data - Radiated Emissions - Uplink

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP HP8563B		RBW(1 MHz): 120 kH/1 MHz		Detector: Q-Peak, CISPR & Peak			
Freq. (MHz)	Ant. *	Pol. (V/H)	Ant. HGT. (m)	Table (deg.)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
3754.0	Hrn2	V			50.0	35.7	-42.4		43.3	82.3	39.0
3754.0	Hrn2	H			52.3	35.7	-42.4		45.6	82.3	36.7
5631.0	Hrn2	V			46.8	40.6	-42.9		44.5	82.3	37.8
5631.0	Hrn2	H			46.1	40.6	-42.9		43.8	82.3	38.5
7508.0	Hrn2	V			44.5	44.9	-41.9		47.5	82.3	34.8
7508.0	Hrn2	H			43.8	44.9	-41.9		46.8	82.3	35.5

Notes:
The spectrum was search up to the 10th harmonic of the fundamental frequency.
B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole
* Includes cable loss when amplifier is not used.
** Includes cable loss.
( ) Denotes failing emission level.

Note: The spectrum was searched to the 10th harmonic. No further emissions were detected within 20 dB of the limit.

Test Data - Radiated Emissions - Downlink

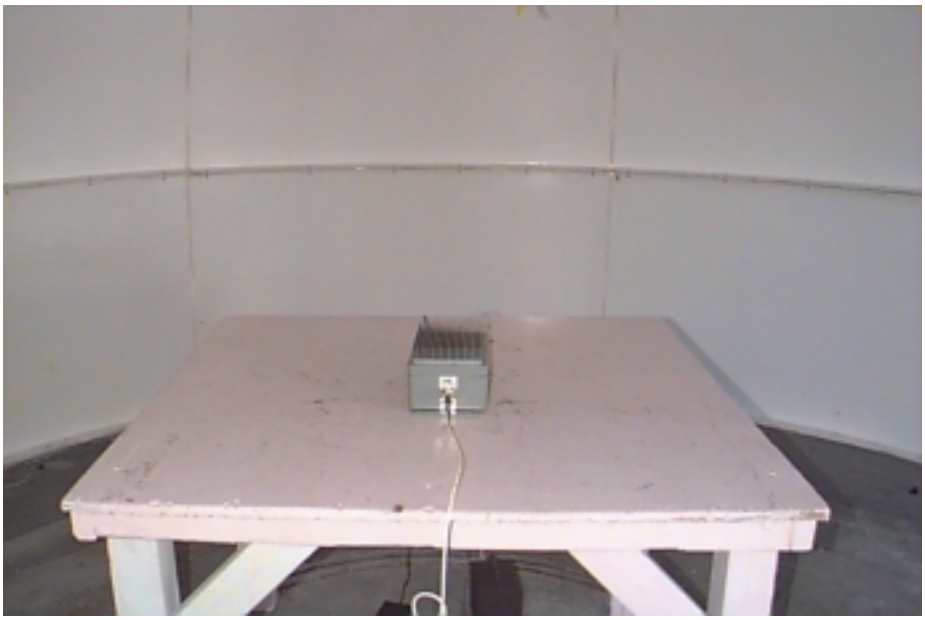
Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP HP8563B		RBW(1 MHz): 120 kH/1 MHz		Detector: Q-Peak, CISPR & Peak			
Freq. (MHz)	Ant. *	Pol. (V/H)	Ant. HGT. (m)	Table (deg.)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
36.9	Hrn2	V			18.5	13.5			32.0	40.0	8.0
36.9	Hrn2	H			8.4	13.5			21.9	40.0	18.1
43.5	Hrn2	V			15.2	12.5			27.7	40.0	12.3
43.5	Hrn2	H			8.6	12.5			21.1	40.0	18.9
3914.0	Hrn2	V			53.5	36.0	-42.6		46.9	82.3	35.4
3914.0	Hrn2	H			44.7	36.0	-42.6		38.1	82.3	44.2
5871.0	Hrn2	V			45.5	41.8	-41.6		45.7	82.3	36.6
5871.0	Hrn2	H			44.8	41.8	-41.6		45.0	82.3	37.3
7828.0	Hrn2	V			41.0	45.6	-40.9		45.7	82.3	36.6
7828.0	Hrn2	H			41.3	45.6	-40.9		46.0	82.3	36.3
9785.0	Hrn2	V			35.8	51.6	-44.4		43.0	82.3	39.3
9785.0	Hrn2	H			36.0	51.6	-44.4		43.2	82.3	39.1

Notes:
The spectrum was search up to the 10th harmonic of the fundamental frequency.
B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole
* Includes cable loss when amplifier is not used.
** Includes cable loss.
( ) Denotes failing emission level.

Note: The spectrum was searched to the 10th harmonic. No further emissions were detected within 20 dB of the limit.

Photographs of Test Setup

End View



Side View

Pre-Scan Data

INSERT PRESCAN GRAPHS

Prescan Data: Uplink

Prescan Data

Project Number : 9r01459
Project Filename : 9R1459U.LST
Date : April 27, 1999
Start Frequency : 30 MHz
Stop Frequency : 1000 MHz
Display Line Value: 24 (30-300 MHz), 16 (300-1000MHz) dBuV

Vertical Prescan

Top Emissions below 300 MHz from the vertical prescan list:

Full Emission List below 300 MHz:

Top Emissions above 300 MHz from the vertical prescan list:

Full Emission List above 300 MHz:

Horizontal Prescan

Top Emissions below 300 MHz from the horizontal prescan list:

Full Emission List below 300 MHz:

Top Emissions above 300 MHz from the horizontal prescan list:

Full Emission List above 300 MHz:

Prescan Data: Downlink

Prescan Data

Project Number : 9r01459
Project Filename : 9R1459D.LST
Date : April 27, 1999
Start Frequency : 30 MHz
Stop Frequency : 1000 MHz
Display Line Value: 24 (30-300 MHz), 16 (300-1000MHz) dBuV

Vertical Prescan

Top Emissions below 300 MHz from the vertical prescan list:

Full Emission List below 300 MHz:

Top Emissions above 300 MHz from the vertical prescan list:

Full Emission List above 300 MHz:

Horizontal Prescan

Top Emissions below 300 MHz from the horizontal prescan list:

Full Emission List below 300 MHz:

Top Emissions above 300 MHz from the horizontal prescan list:

Full Emission List above 300 MHz:

Section 7. Frequency Stability

NAME OF TEST: Frequency Stability	PARA. NO.: 24.235
TESTED BY:	DATE:

Test Results: Complies/Does Not Comply.

Measurement Data: Standard Test Frequency: _____ MHz
Standard Test Voltage: _____ Vdc

NOT APPLICABLE

Section 8. Test Equipment List

CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.	
1 Year	Spectrum Analyzer	Hewlett Packard	3585A	846057	Oct. 22/98	Oct. 22/99	
1 Year	Spectrum Analyzer-**1**	Hewlett Packard	8566B	2311A02238	Oct. 22/98	Oct. 22/99	
1 Year	Spectrum Analyzer Display-**1**	Hewlett Packard	8566B	2314A04759	Oct. 22/98	Oct. 22/99	
1 Year	Attenuator	Narda	768-20	9507	July 24/98	July 24/99	
1 Year	Attenuator	Narda	765-20	9510	July 24/98	July 24/99	
1 Year	RF Millivoltmeter	Rohde & Schwarz	URV5	FA000420	July 23/98	July 23/99	
1 Year	Insertion Unit	Rohde & Schwarz	URV5-Z4	FA000905	July 23/98	July 23/99	
1 Year	Power Sensor	Rohde & Schwarz	URV5-Z5	FA000419	July 23/98	July 23/99	
1 Year	LISN	Rohde & Schwarz	ESH2-Z5	890485/017	July 23/98	July 23/99	
1 Year	Receiver	Rohde & Schwarz	ESVP	892661/014	Mar. 31/98	Mar. 31/99	
	Biconilog Antenna	EMCO	3143	1038	NCR	NCR	
2 Year	Horn Antenna	EMCO #2	3115	4336	Oct. 30/97	Oct. 30/99	
	50 Ω Termination	Wiltron	26N50	605248	N/A	N/A	
	50 ohm Combiner Pad	Mini Circuits	ZA3PD-4	9740	July 23/98	July 23/99	
1 Year	Low Noise Amplifier	Avantek	AWT-8035	1005	Aug. 4/98	Aug. 4/99	
1 Year	Low Noise Amplifier	DBS Microwave	DWT-13035	9623	Aug. 4/98	Aug. 4/99	
1 Year	Signal Generator	Rohde & Schwarz	SM1Q03	1084-8004-03	July 23/98	July 23/99	
1 Year	Plotter	Hewlett Packard	7550A	FA001129	NCR	NCR	
3 Year	RF Generator	Rohde & Schwarz	SME3	DE14439	June 29/96	June 29/99	
2 Year	Spectrum Analyzer	Hewlett Packard	8563E	862205	Jan. 22/98	Jan. 22/00	

NA: Not Applicable
NCR: No Cal Required

ANNEX A

TEST METHODOLOGIES

NAME OF TEST: RF Power Output	**PARA. NO.: 2.985**

Minimum Standard: Para. No.24.232. Base stations are limited to 1640 watts peak E.I.R.P. with an antenna height up to 300 meters HAAT. In no case may the peak output power of a base station transmitter exceed 100 watts.

Method Of Measurement:

Detachable Antenna:
The peak power at antenna terminals is measured using an in-line peak power meter. Power output is measured with the maximum rated input level.

Integral Antenna:
If the antenna is not detachable from the circuit then the Peak Power Output is derived from the peak radiated field strength of the fundamental emission by using the plane wave relation $GP/4\pi R^2 = E^2/120\pi$ and proceeding as follows:

$$P = \frac{E^2 R^2}{30G} = \frac{E^2 3^2}{30G}$$

where,

P = the equivalent isotropic radiated power in watts
E = the maximum measured field strength in V/m
R = the measurement range (3 meters)
G = the numeric gain of the transmit antenna in relation to an isotropic radiator

NAME OF TEST: Occupied Bandwidth	**PARA. NO.: 2.989**

Minimum Standard: Para. No. 24.238(b). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB.

Method Of Measurement:

CDMA

Spectrum analyzer settings:
RBW: 30 kHz
VBW: ≥ RBW
Span: 5 MHz
Sweep: Auto
Mask: Set markers to -26 dB from peak of CW.

GSM

RBW: 3 kHz
VBW: ≥ RBW
Span: 2 MHz
Sweep: Auto
Mask: Set markers to -26 dB from peak of CW.

NADC

RBW: 1 kHz
VBW: ≥ RBW
Span: 1 MHz
Sweep: Auto
Mask: Set markers to -26 dB from peak of CW.

NAME OF TEST: Spurious Emission at Antenna Terminals PARA. NO.: 2.991

Minimum Standard: Para. No.24.238(a). On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power by at least 43 + 10 log (P) dB.

Method Of Measurement:

Spectrum analyzer settings:

CDMA

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 30 kHz (< 1MHz from Band Edge)
VBW: ≥ RBW
Sweep: Auto
Video Avg: 6 Sweeps

GSM

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 3 kHz (< 1 MHz from Band Edge)
VBW: ≥ RBW
Sweep: Auto
Video Avg: Disabled

NADC

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 3 kHz (< 1 MHz from Band Edge)
VBW: ≥ RBW
Sweep: Auto
Video Avg: Disabled

To demonstrate compliance at band edges the frequency of the input signal is set to the lowest and highest assigned channel and the center frequency of the spectrum analyzer is set to the upper and lower edges of the appropriate frequency block.

NAME OF TEST: Field Strength of Spurious Radiation PARA. NO.: 2.993

Minimum Standard: Para. No.24.238(a). On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power by at least 43 + 10 log (P) dB.

Calculation Of Field Strength Limit

An example of attenuation requirement of 43 + 10 Log P is equivalent to -13 dBm (5×10^{-5} Watts) at the antenna terminal. We determine the field strength limit by using the plane wave relation.

$GP/4\pi R^2 = E^2/120\pi$

For emissions ≤ 1 GHz:

G = 1.64 (Dipole Gain)
P = 10^{-5} Watts (Maximum spurious output power)
R = 3m (Measurement Distance)

$$E = \frac{\sqrt{30GP}}{R}$$

$$\mathrm{E} = \frac{\sqrt{30 \times 1.64 \times 5 \times 10^{-5}}}{3} = 0.016533 \text{ V / m} = 84.4 \text{ dB}\mu\text{V / m}$$

For emissions > 1 GHz:

G = 1 (Isotropic Gain)
P = 1×10^{-5} Watts (Maximum spurious output power)
R = 3m (Measurement Distance)

$$E = 84.4 - 20Log\sqrt{1.64} = 82.3 dB\mu V \ / \ m@3m$$

NAME OF TEST: Frequency Stability	**PARA. NO.: 2.995**

Minimum Standard: Para. No. 24.235. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Method Of Measurement:

Frequency Stability With Voltage Variation

The E.U.T. is placed in an environmental chamber and allowed to stabilize at +20 degrees Celsius for at least 15 minutes. The frequency counter and signal generator are phase locked with the same 10 MHz reference frequency by connecting the 10 MHz ref. out of the counter to the 10 MHz ref, in of the signal generator. With the voltage input to the E.U.T. set to 85% S.T.V., the frequency is measured in 30 second intervals for a period of 5 minutes. This procedure is repeated at 100% S.T.V. and 115% S.T.V.

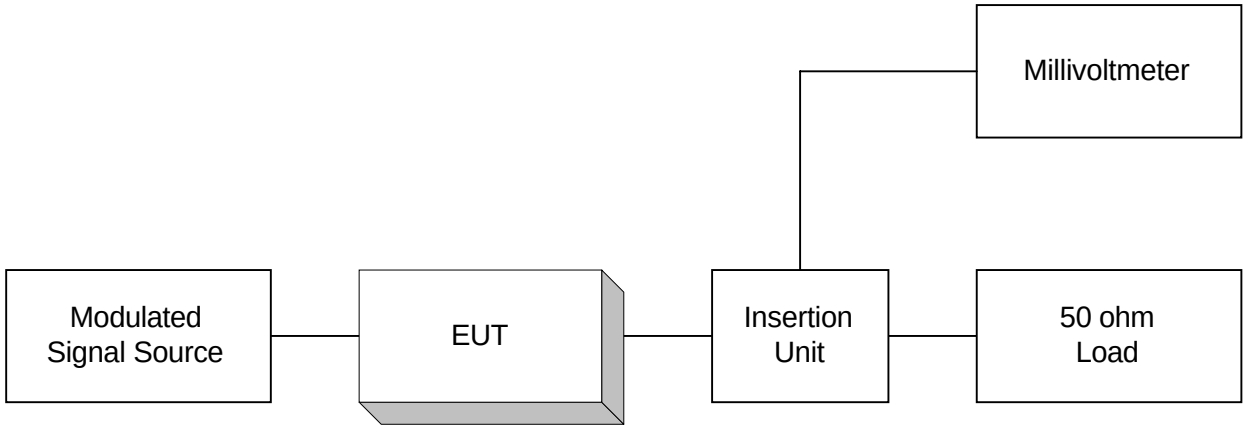
Frequency Stability With Temperature Variation

The input voltage to the E.U.T. is set to S.T.V. and the temperature of the environmental chamber is varied in 10 degree steps from -30 degrees C to +50 degrees C. The E.U.T. is allowed to stabilize at each temperature and the frequency is measured in 30 second intervals for a period of 5 minutes.

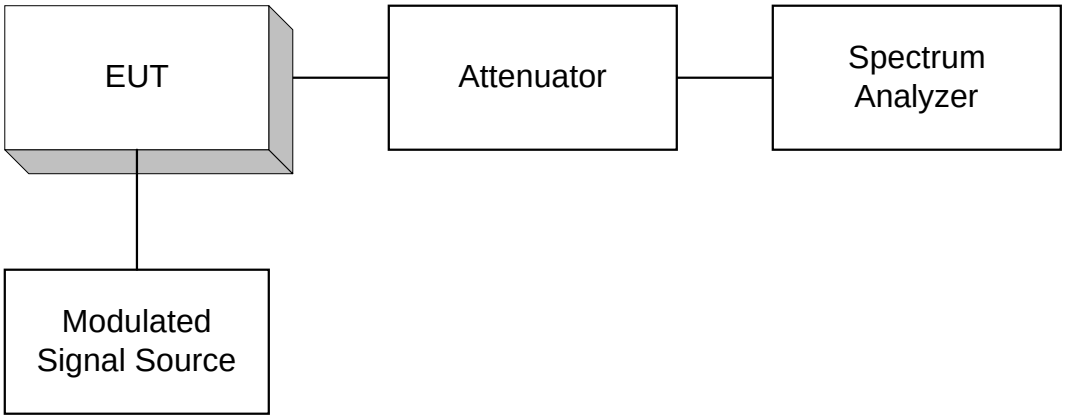
ANNEX B

TEST DIAGRAMS

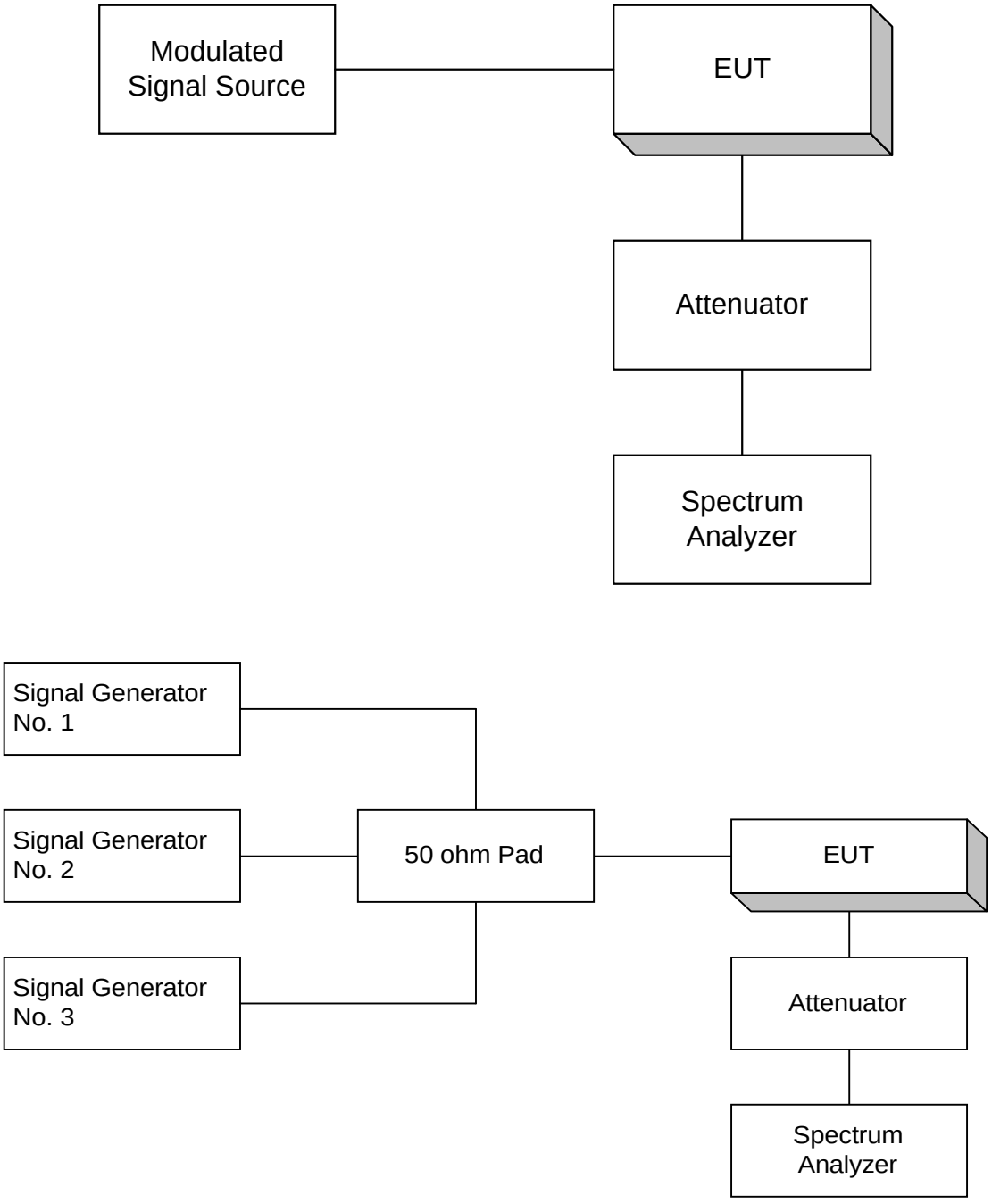
Para. No. 2.985 - R.F. Power Output



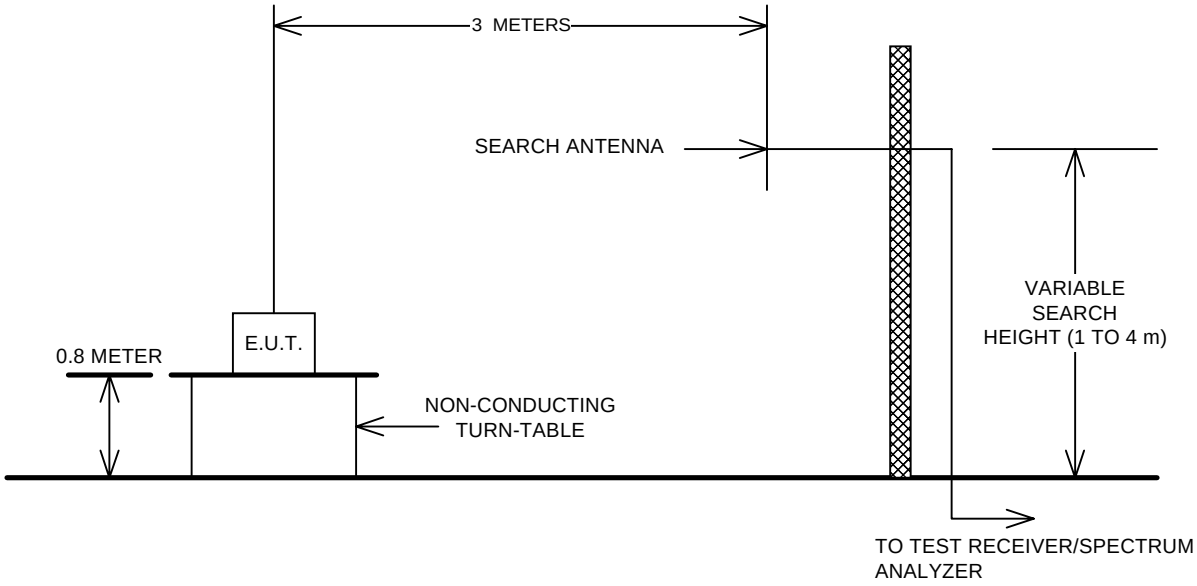
Para. No. 2.989 - Occupied Bandwidth



Para. No. 2.991 Spurious Emissions at Antenna Terminals



Para. No. 2.993 - Field Strength of Spurious Radiation



Para. No. 2.995 - Frequency Stability