



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2004

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time=span/3kHz.

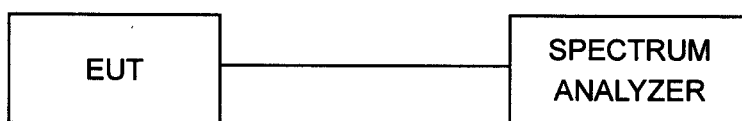
The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

Same as 4.3.6



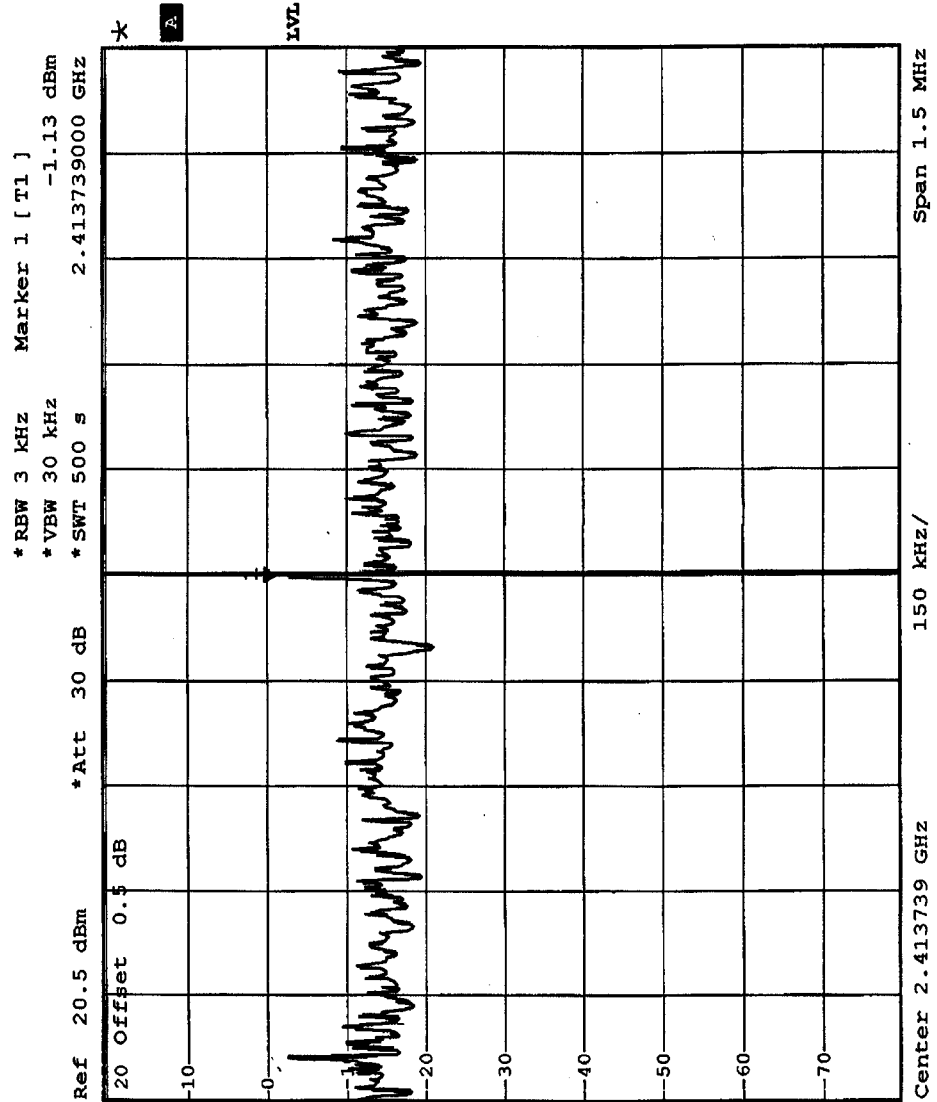
4.5.7 TEST RESULTS (A)

EUT	Atheros 11g Mini-PCI Adapter	MODEL	NL-3054MP Plus Aries2
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991 hPa
TESTED BY: Jun Wu			

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-1.13	8	PASS
6	2437	5.44	8	PASS
11	2462	4.44	8	PASS



CH1





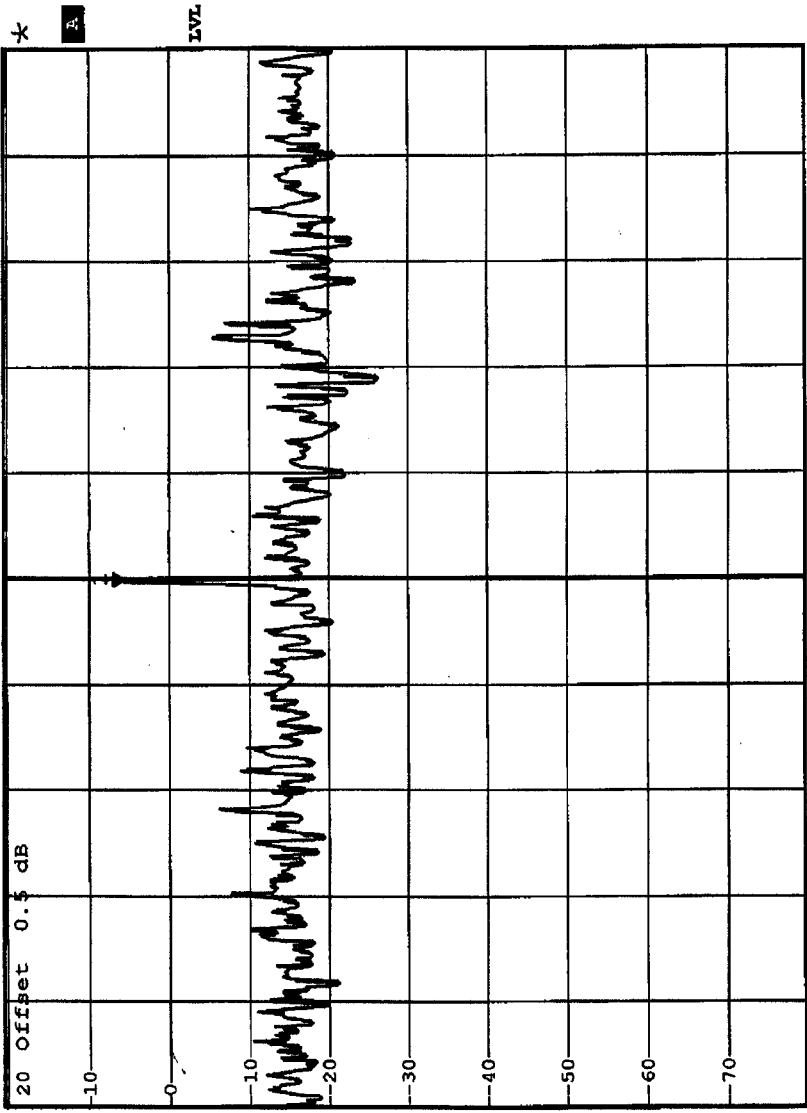
CH6

*RBW 3 kHz *Att 30 dB *Center 2.436678 GHz
 *VBW 30 kHz *Offset 0.5 dB *Span 1.5 MHz
 *SWT 500 s *Ref 20.5 dBm

Marker 1 [T1]

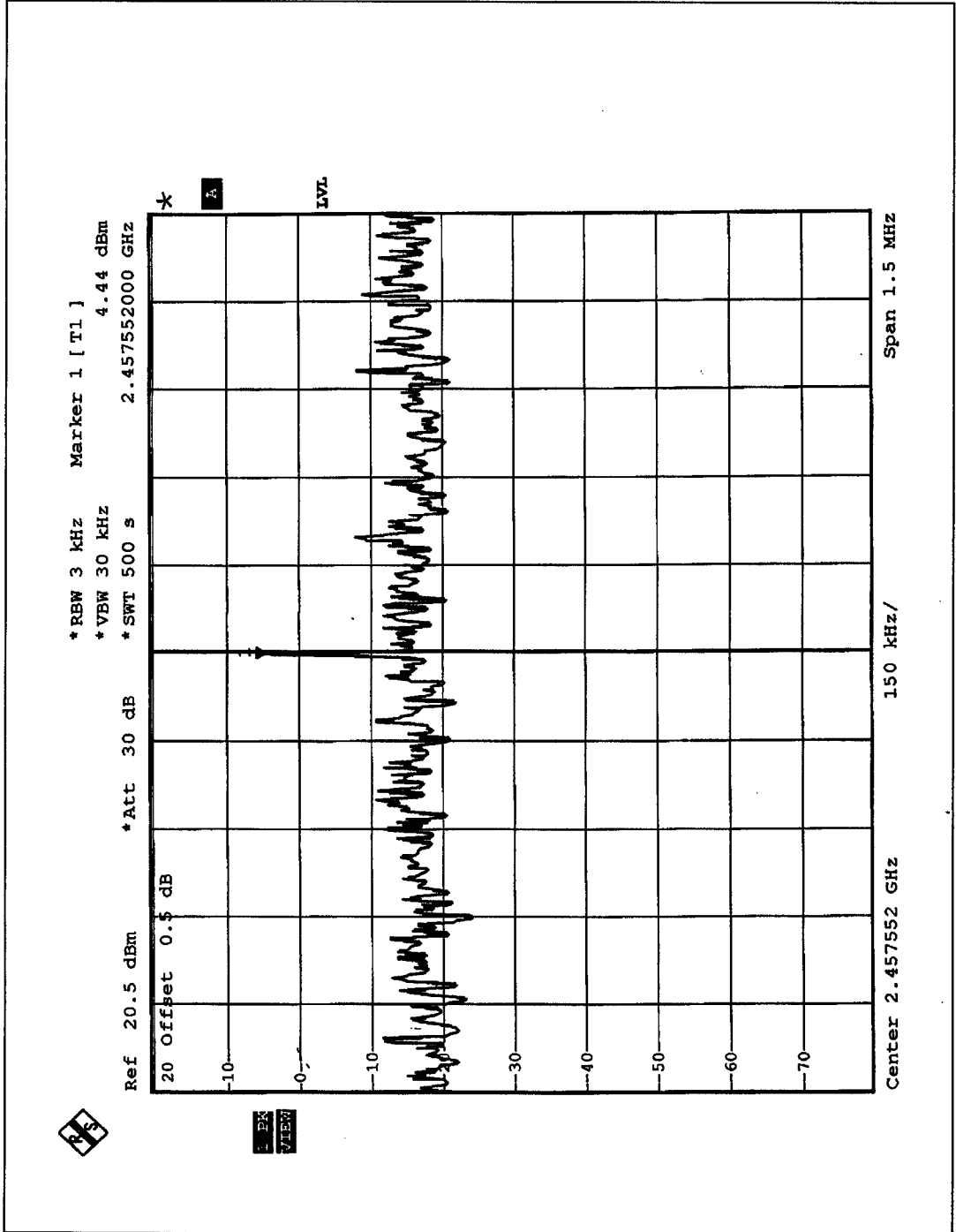
5.44 dBm

2.436678000 GHz





CH11





4.5.8 TEST RESULTS (B)

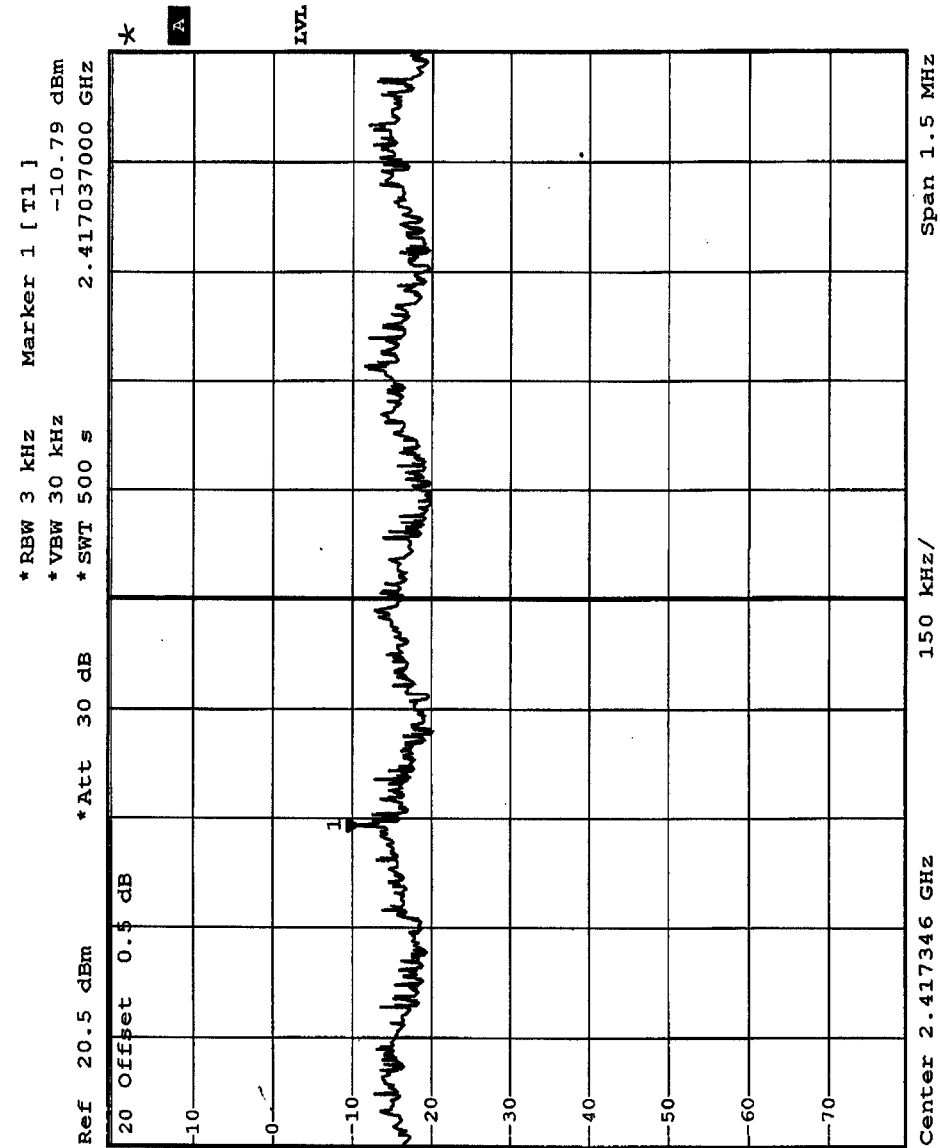
Normal mode:

EUT	Atheros 11g Mini-PCI Adapter	MODEL	NL-3054MP Plus Aries2
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991 hPa
TESTED BY: Jun Wu			

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-10.79	8	PASS
6	2437	-7.58	8	PASS
11	2462	-11.99	8	PASS



CH1

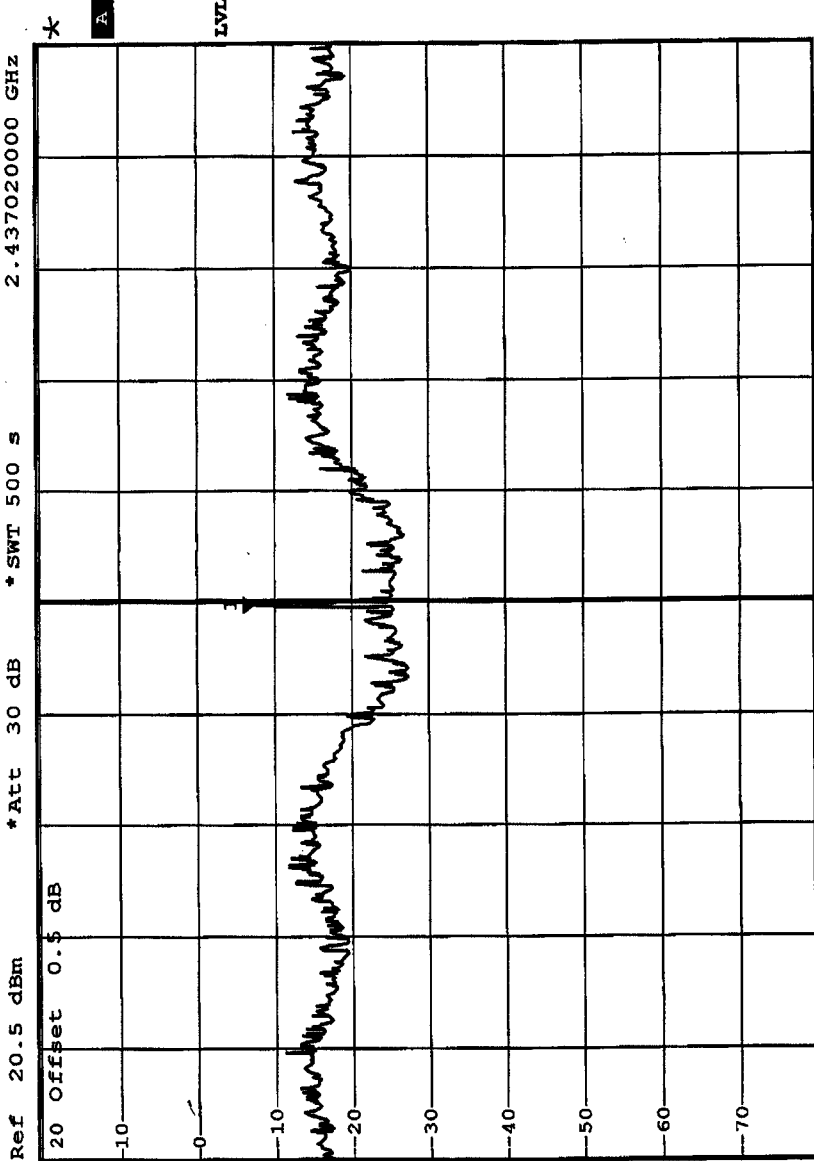


LINK
VIEW



CH6

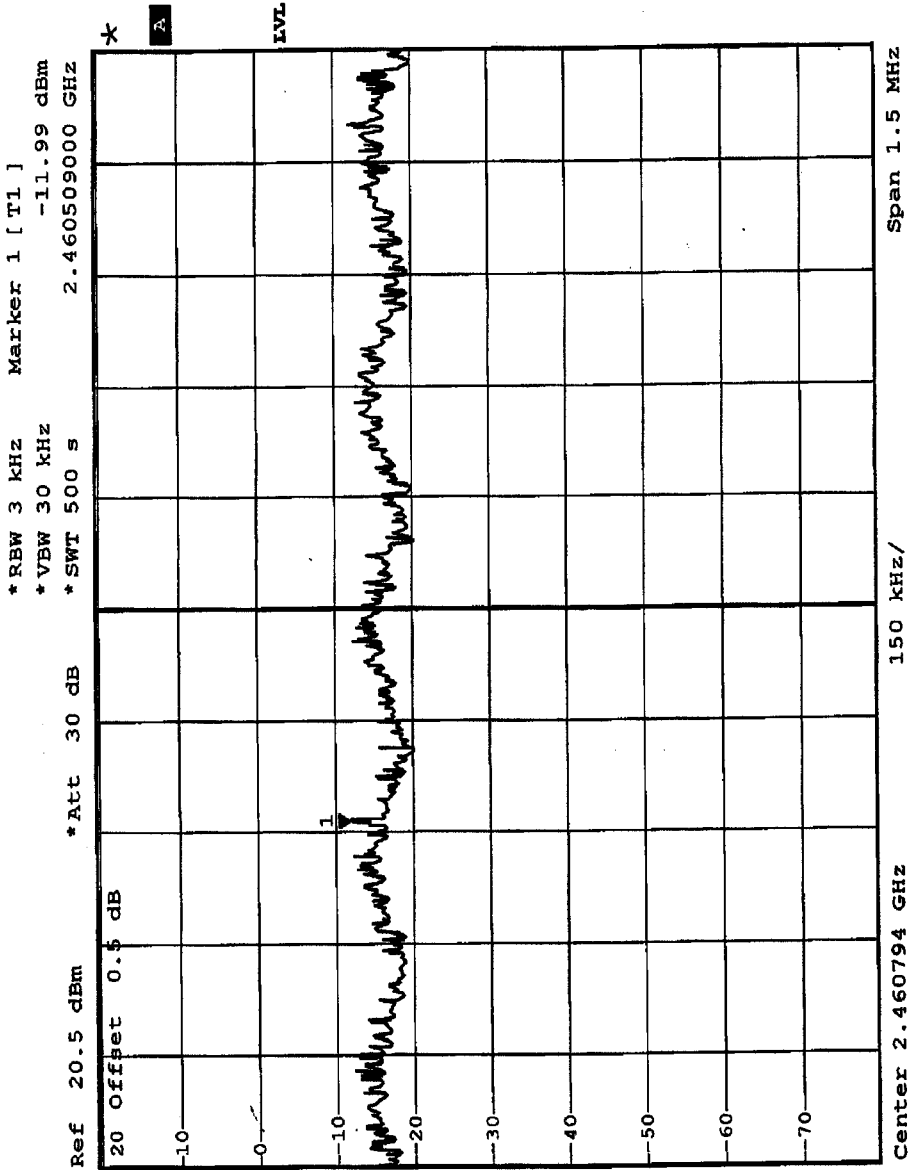
*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-7.58 dBm
2.43702000 GHz



EX VIEW



CH11



PK VIEW