

## 4.5 PEAK POWER SPECTRAL DENSITY MEASUREMENT

### 4.5.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

Frequency Band	Limit
5.15 – 5.25 GHz	4 dBm
5.25 – 5.35 GHz	11 dBm
5.725 – 5.825 GHz	17 dBm

### 4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE&SCHWARZ SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

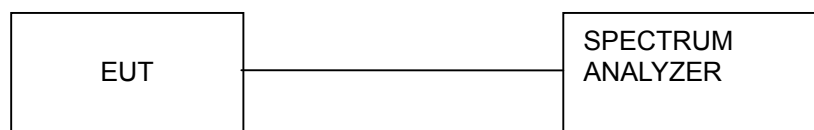
**NOTE:**

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. 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 PROCEDURES

1. The transmitter output was connected to the spectrum analyzer.
2. Set RBW=1MHz, VBW=3MHz. The PPSD can be found.

#### 4.5.4 TEST SETUP



#### 4.5.5 EUT OPERATING CONDITIONS

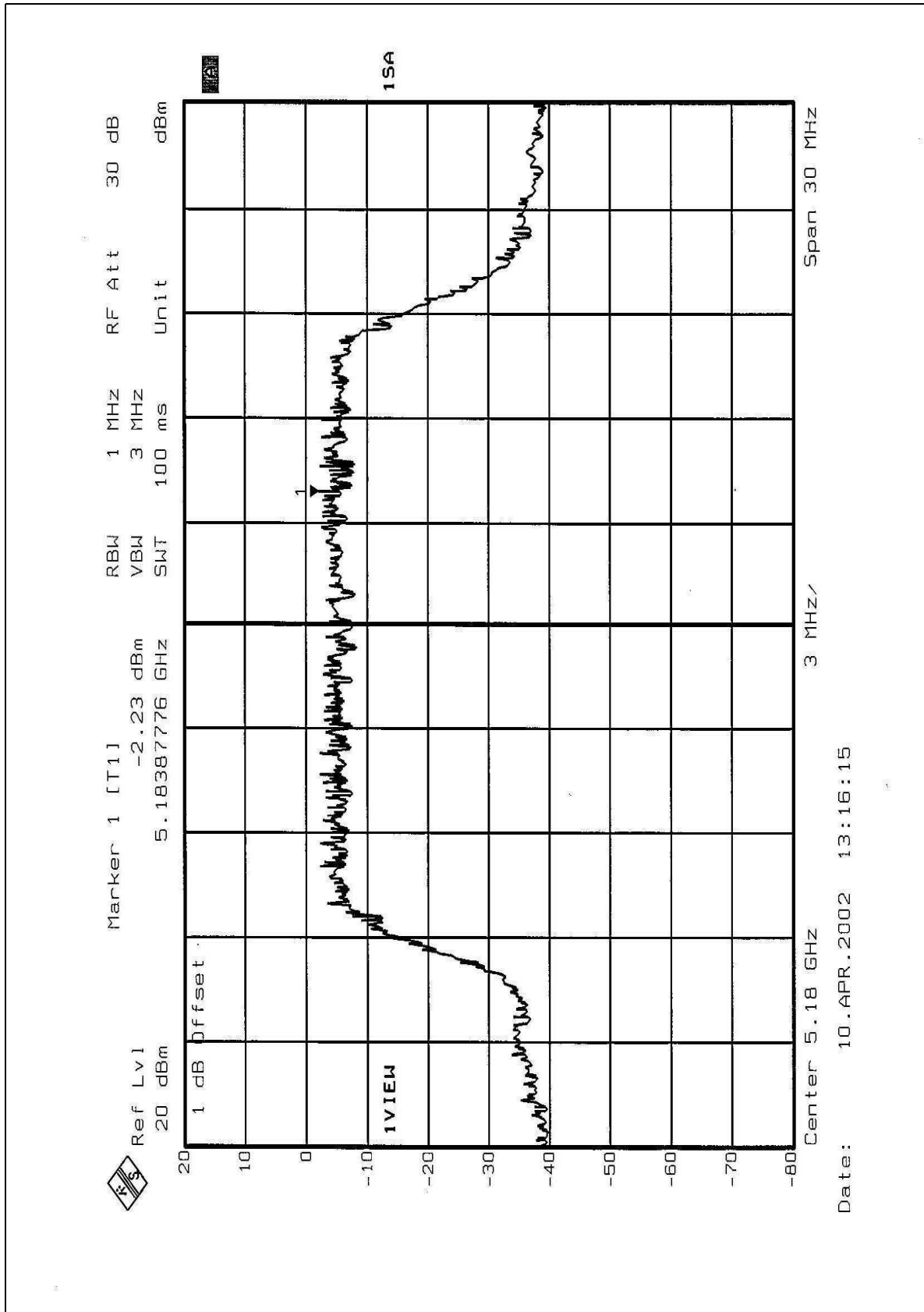
Same as 4.3.5

## 4.5.6 TEST RESULTS

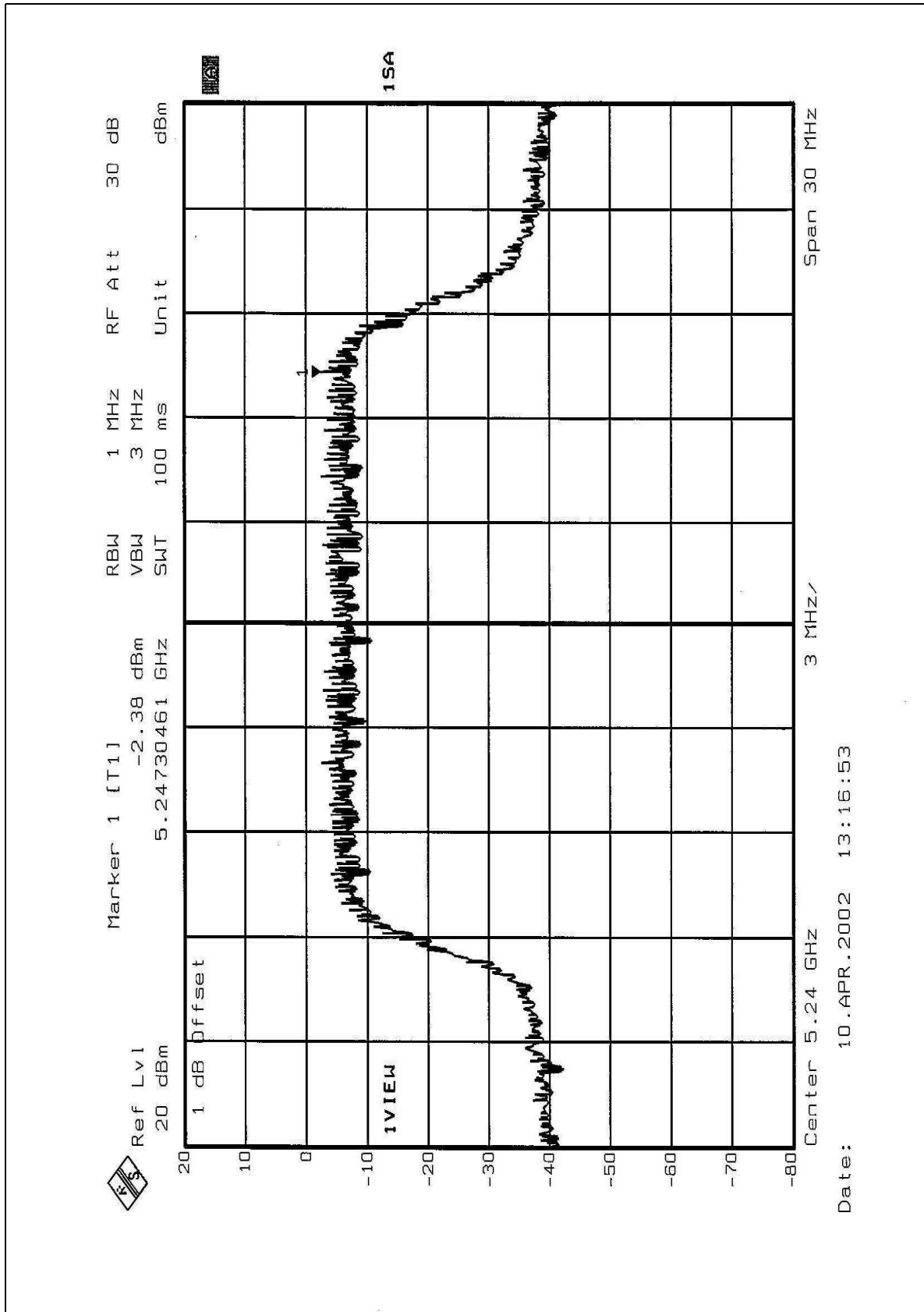
<b>EUT</b>	54Mbps Wireless Access Point	<b>MODEL</b>	WAP54A
<b>MODE</b>	Normal	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>ENVIRONMENTAL CONDITIONS</b>	27 deg. C, 52%RH, 1005 hPa	<b>TESTED BY</b>	Steven Lu

<b>CHANNEL NUMBER</b>	<b>CHANNEL FREQUENCY (MHz )</b>	<b>RF POWER LEVEL IN 1 MHz BW (dBm)</b>	<b>MAXIMUM LIMIT (dBm)</b>	<b>PASS/FAIL</b>
1	5180	-2.23	4	PASS
4	5240	-2.38	4	PASS
5	5260	-3.18	11	PASS
8	5320	-3.97	11	PASS

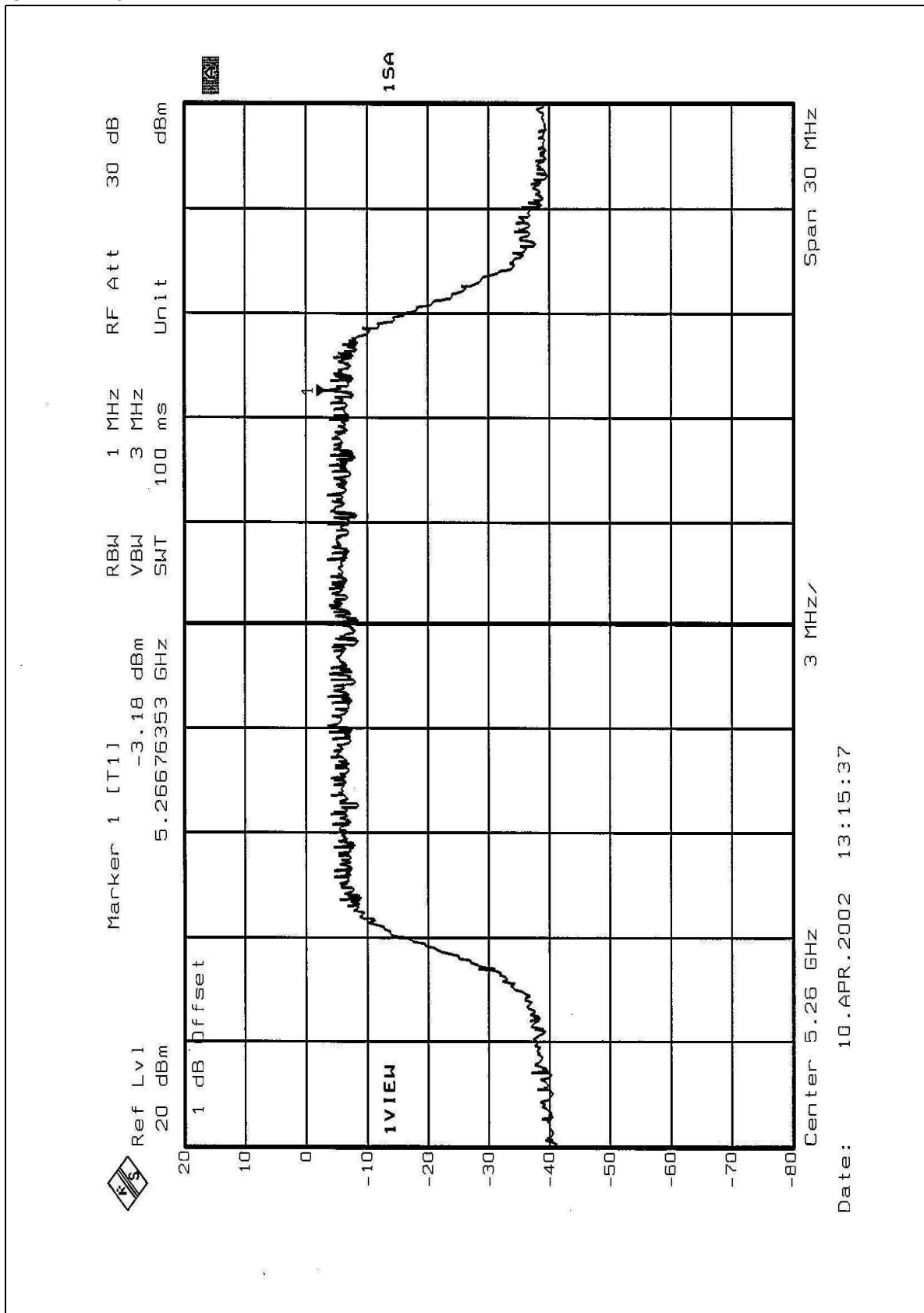
## CHANNEL 1



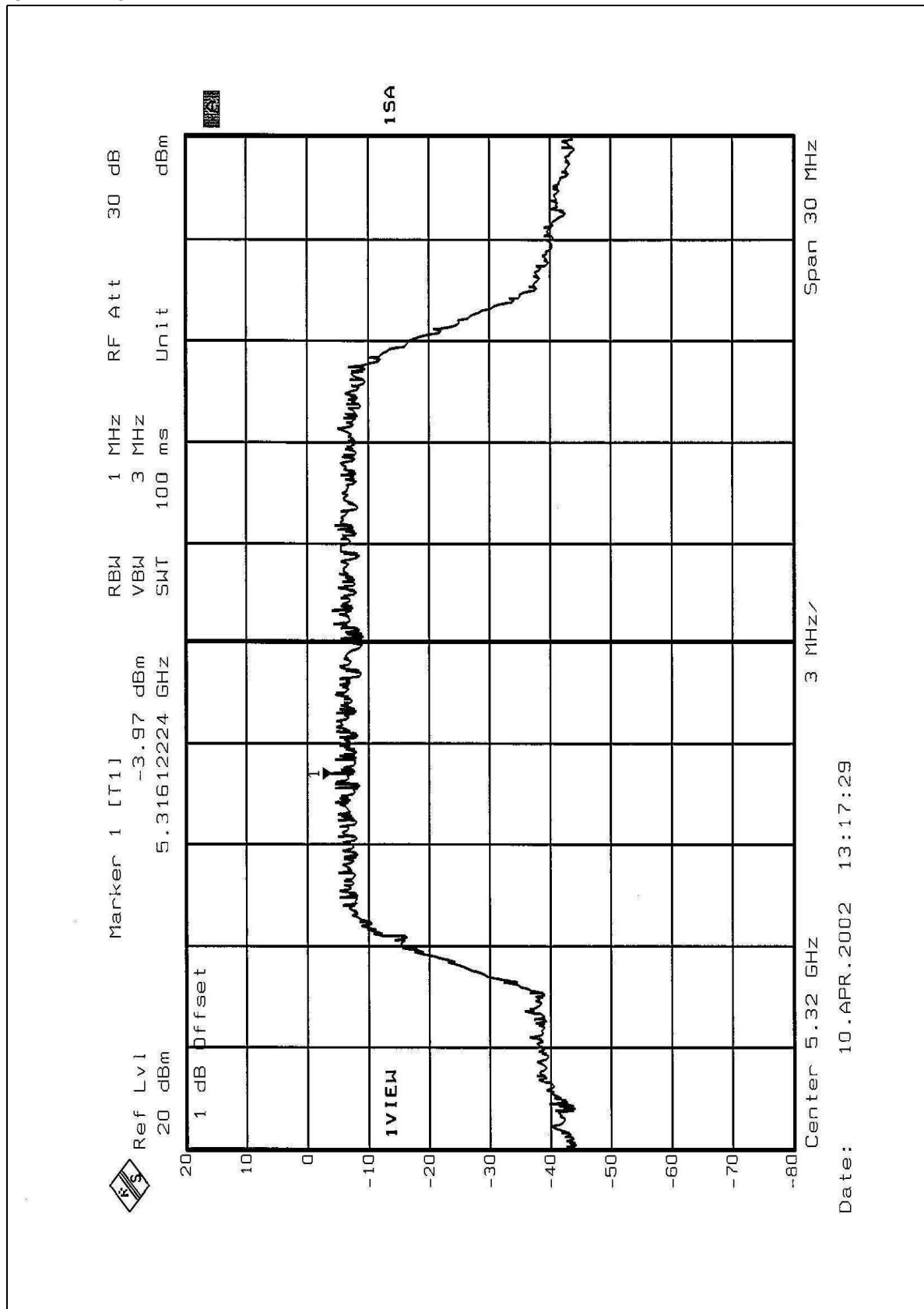
## CHANNEL 4



CHANNEL 5



## CHANNEL 8



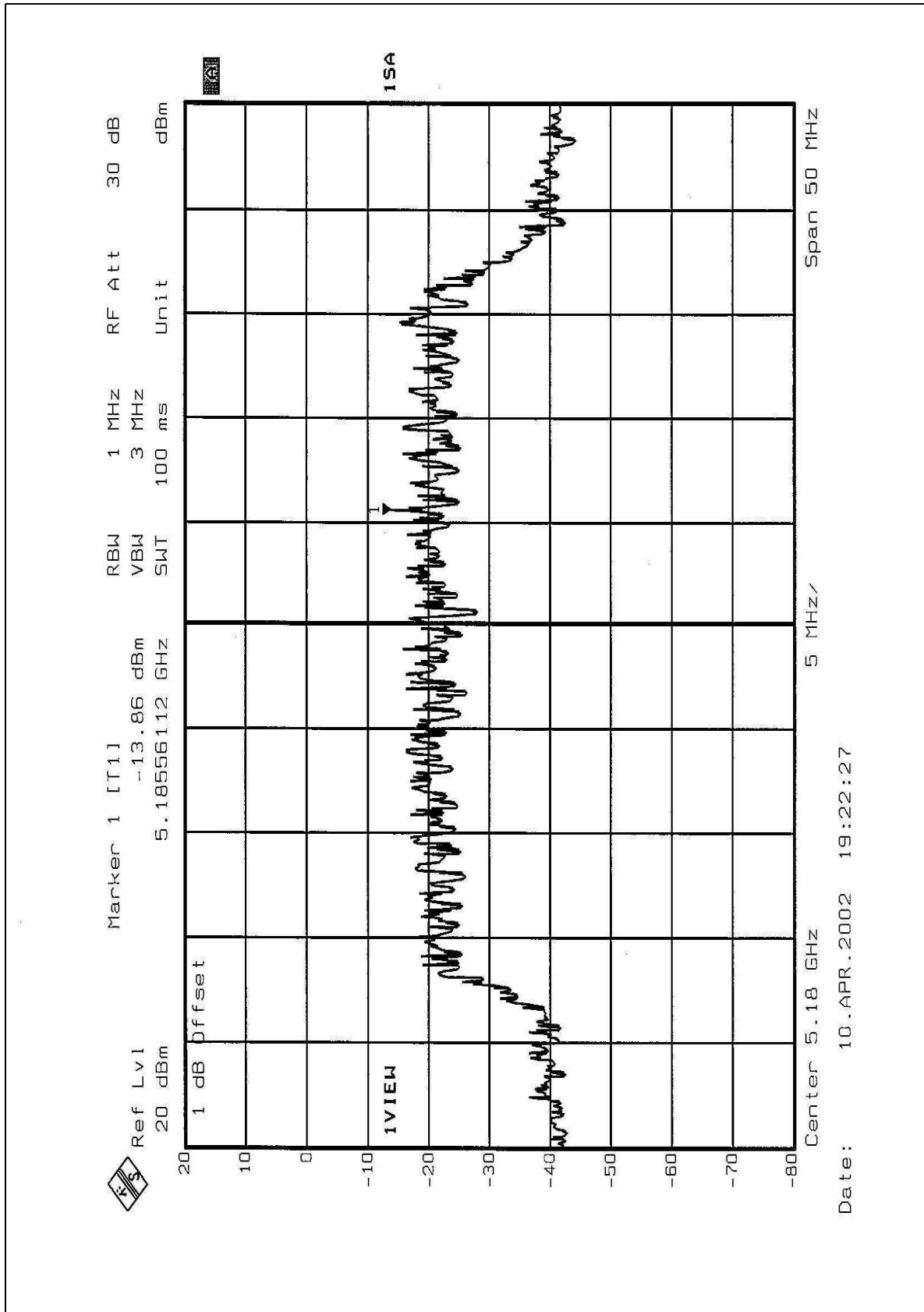


<b>EUT</b>	54Mbps Wireless Access Point	<b>MODEL</b>	WAP54A
<b>MODE</b>	Turbo	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz
<b>ENVIRONMENTAL CONDITIONS</b>	27 deg. C, 52%RH, 1005 hPa	<b>TESTED BY</b>	Steven Lu

<b>CHANNEL NUMBER</b>	<b>CHANNEL FREQUENCY (MHz )</b>	<b>RF POWER LEVEL IN 1 MHz BW (dBm)</b>	<b>MAXIMUM LIMIT (dBm)</b>	<b>PASS/FAIL</b>
1	5180	-13.86	4	PASS
4	5240	-14.50	4	PASS
5	5260	-13.32	11	PASS
8	5320	-12.81	11	PASS

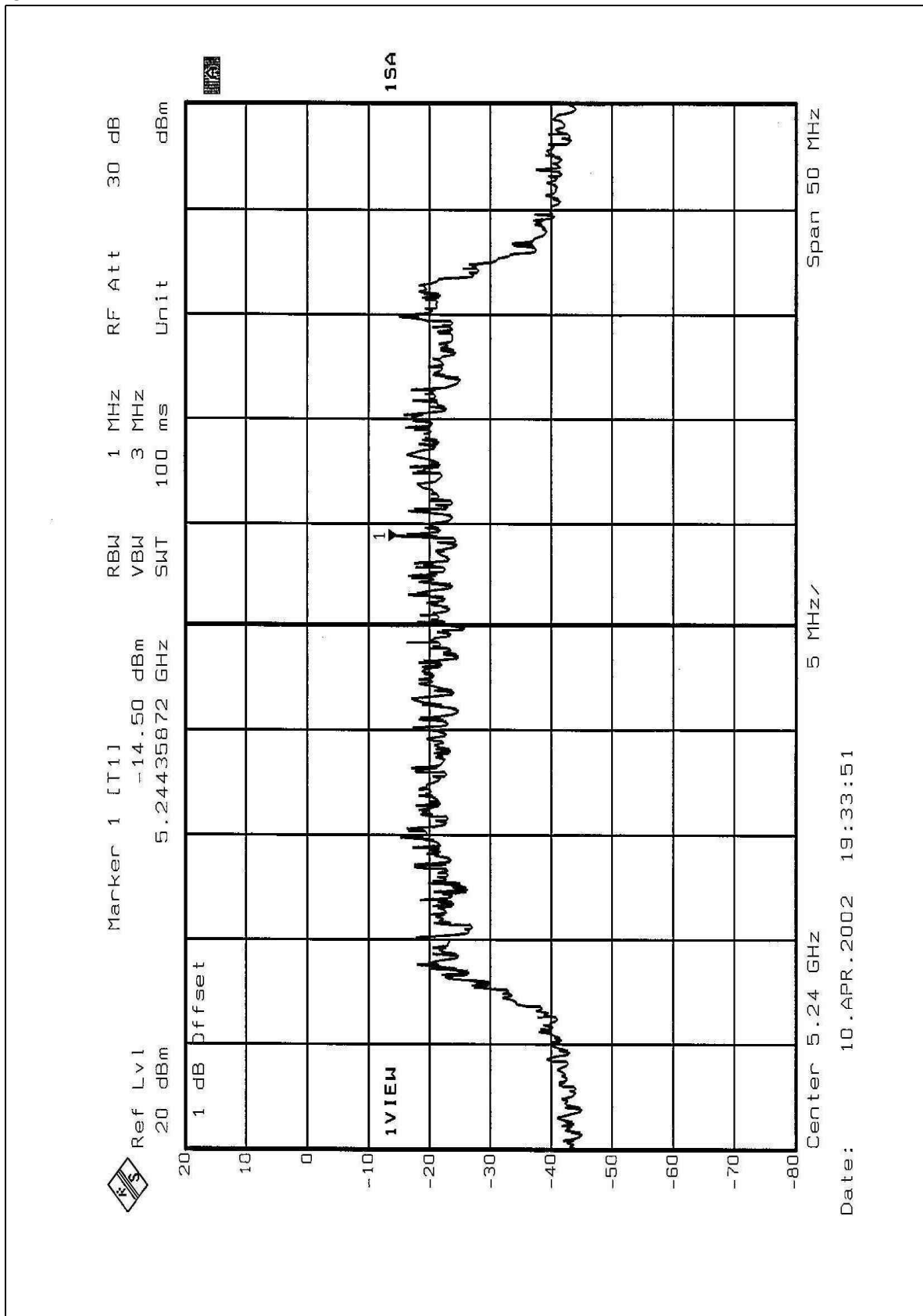


## CHANNEL 1



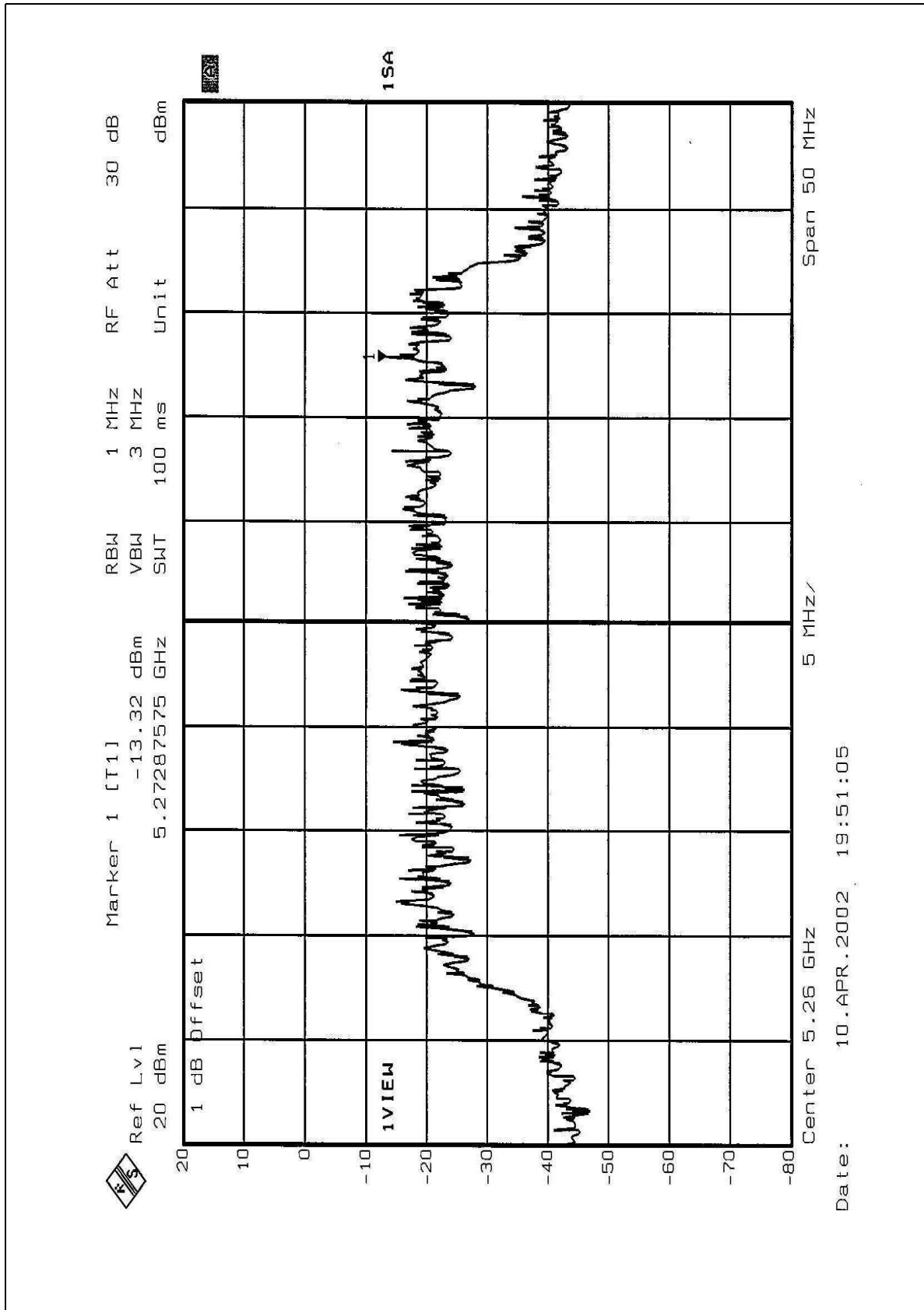


CHANNEL 4





CHANNEL 5



CHANNEL 8

