

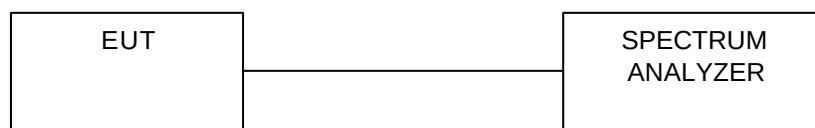
4.5.3 TEST PROCEDURE

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

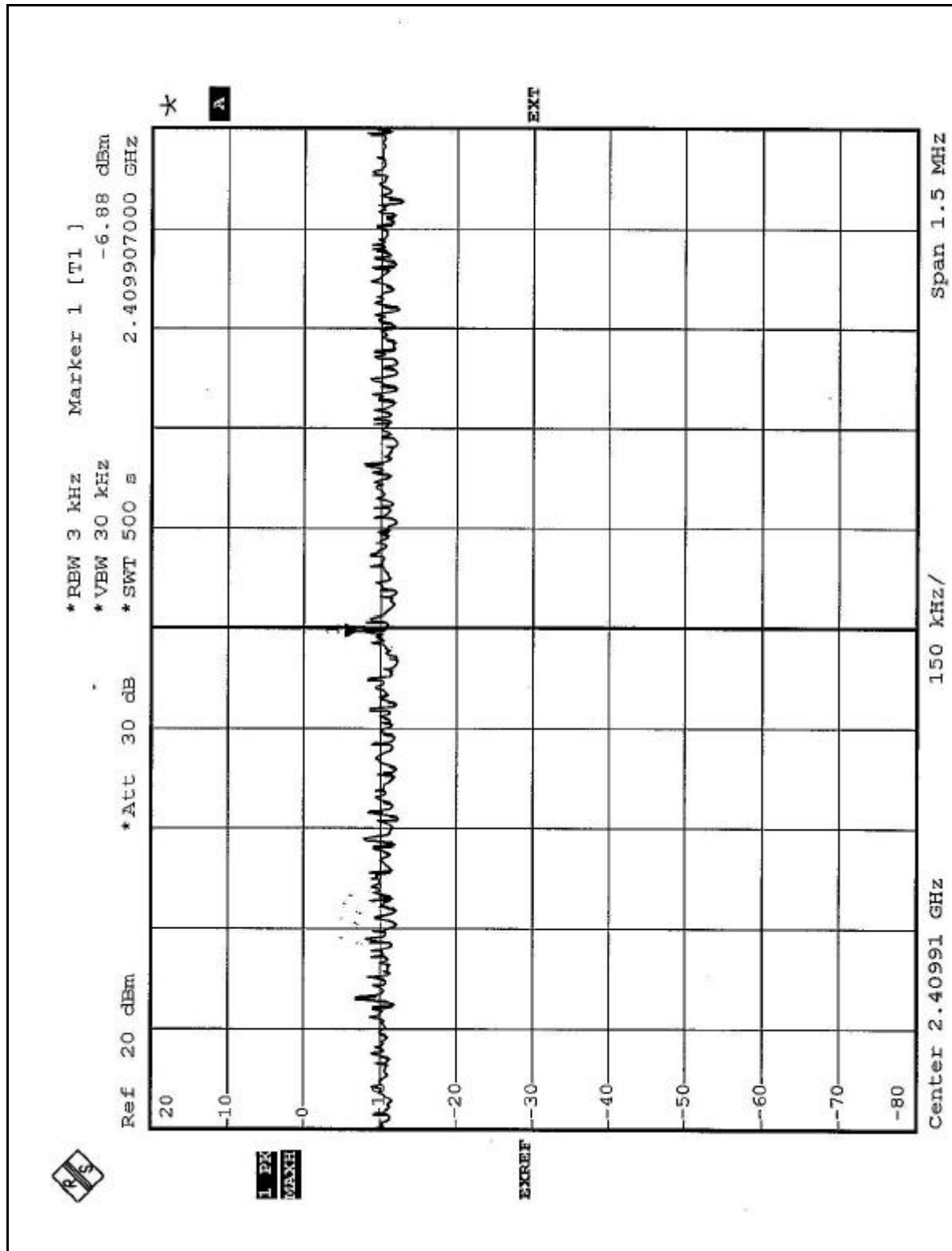
Same as 4.3.6

4.5.7 TEST RESULTS (A)

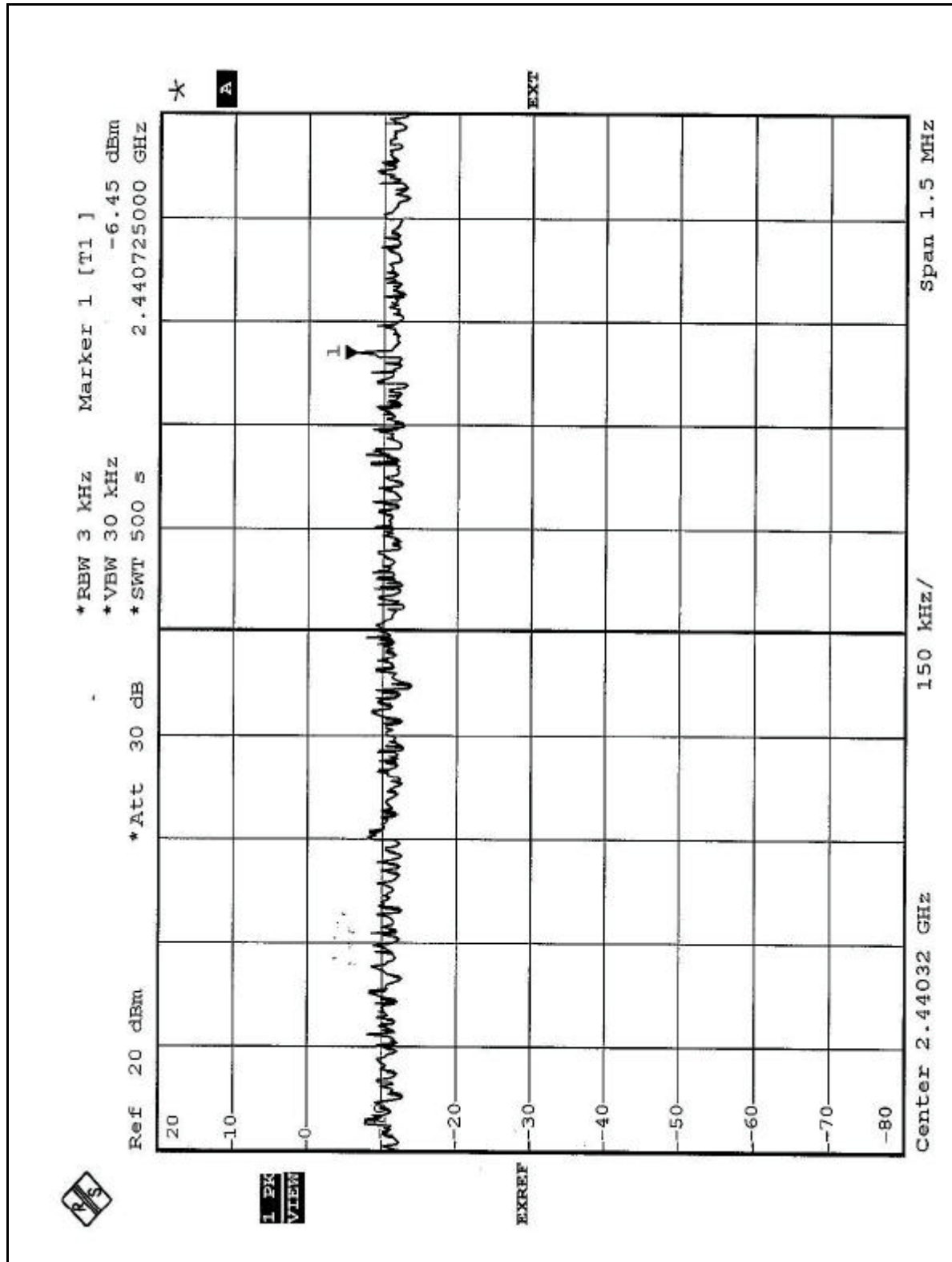
EUT	Wireless PCMCIA Card	MODEL	F5D7011
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH, 991 hPa
TESTED BY	Match Tsui	TEST MODE	Test Mode 1

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-6.88	8	PASS
6	2437	-6.45	8	PASS
11	2462	-7.02	8	PASS

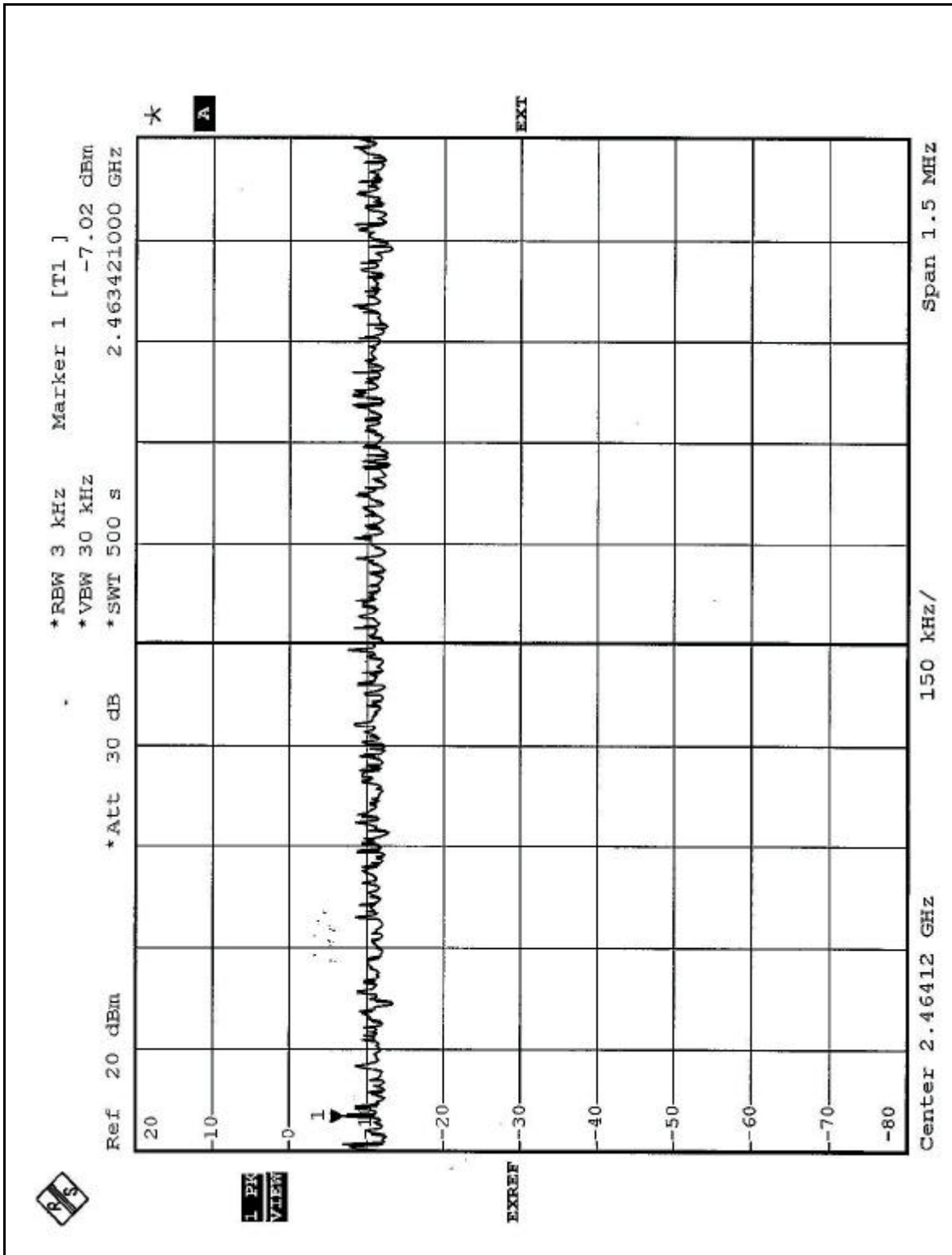
CH1



CH6



CH11

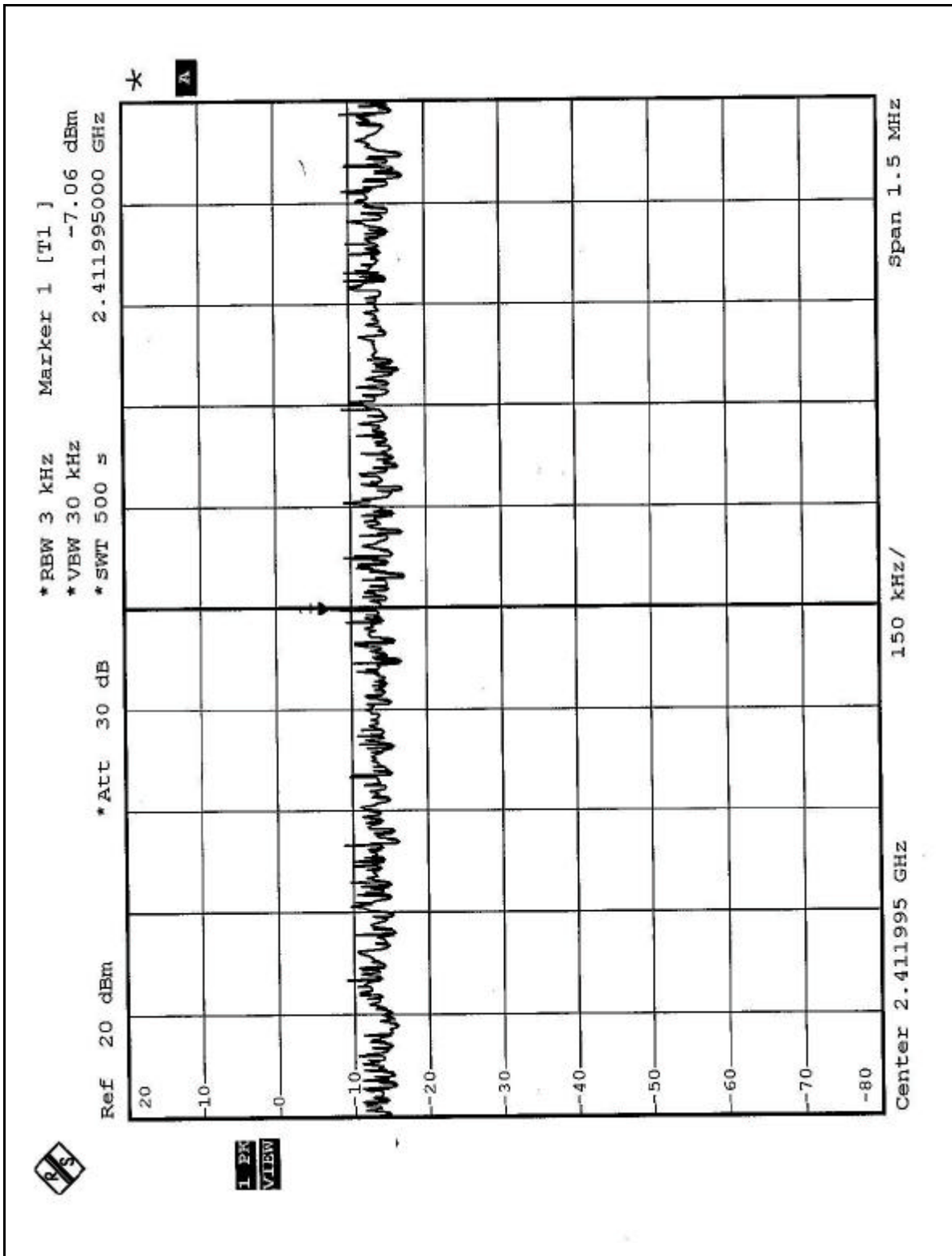




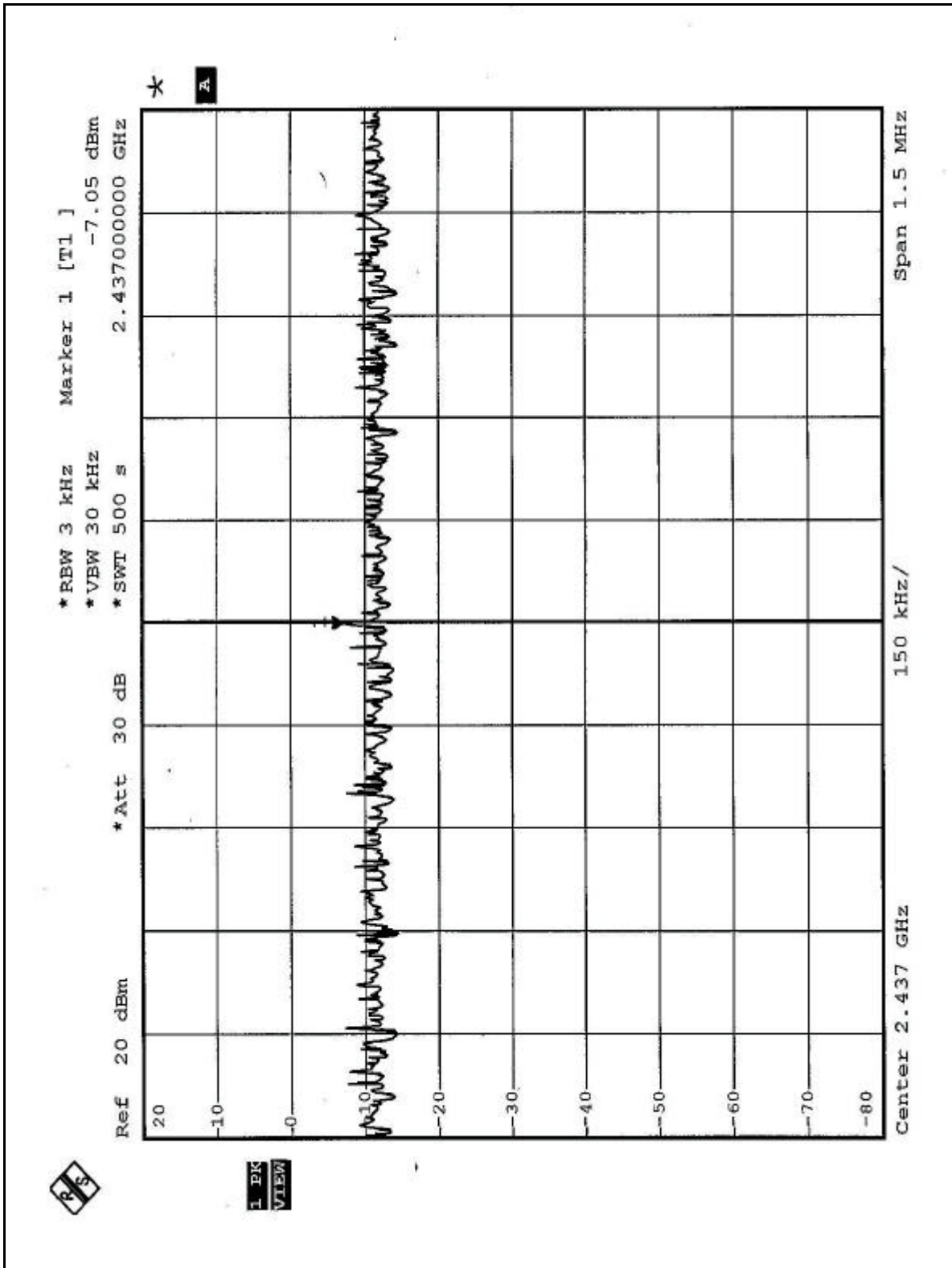
EUT	Wireless PCMCIA Card	MODEL	F5D7011
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991 hPa
TESTED BY	Leo Hung	TEST MODE	Test Mode 2

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-7.06	8	PASS
6	2437	-7.05	8	PASS
11	2462	-7.41	8	PASS

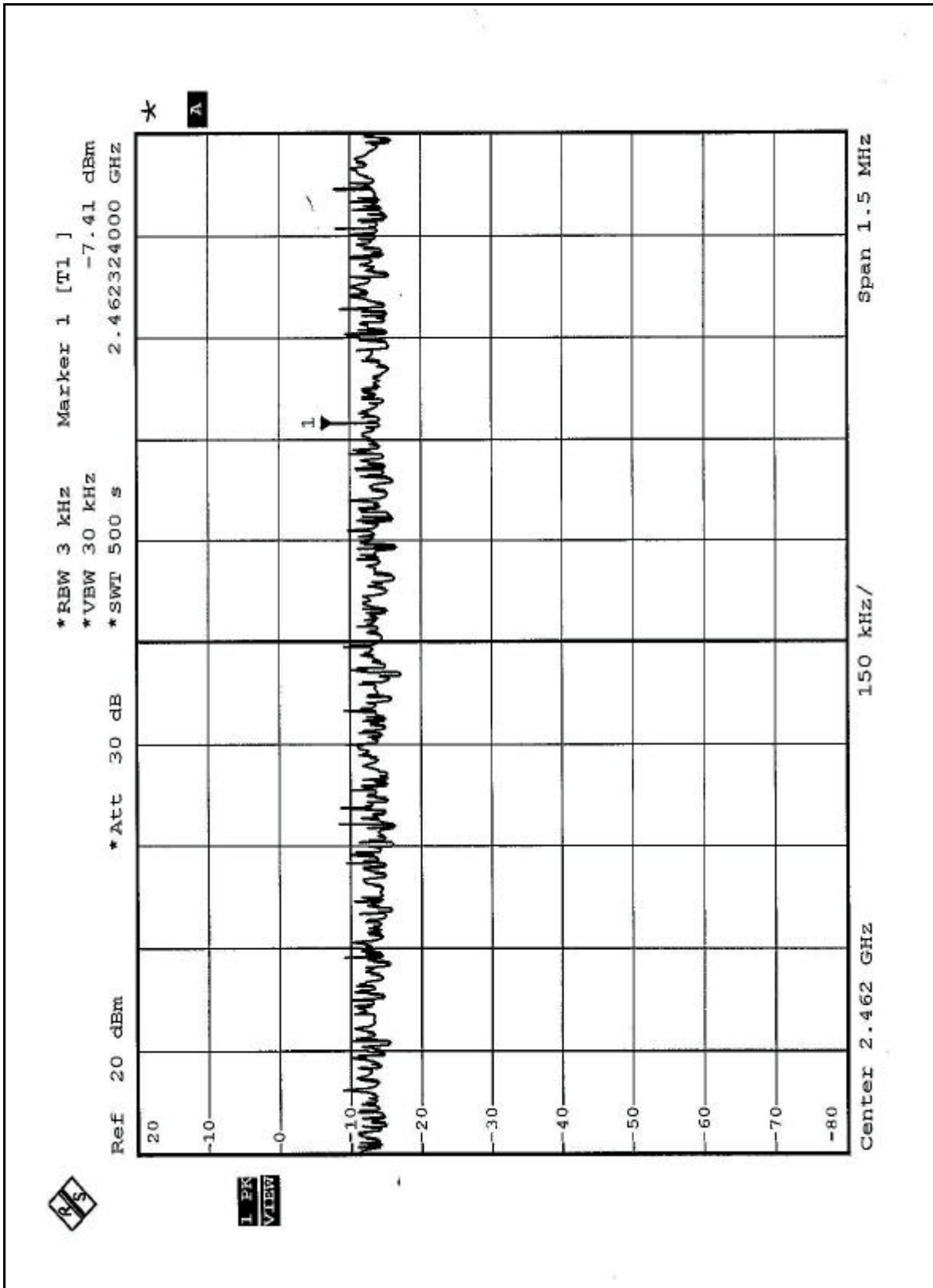
CH1



CH6



CH11



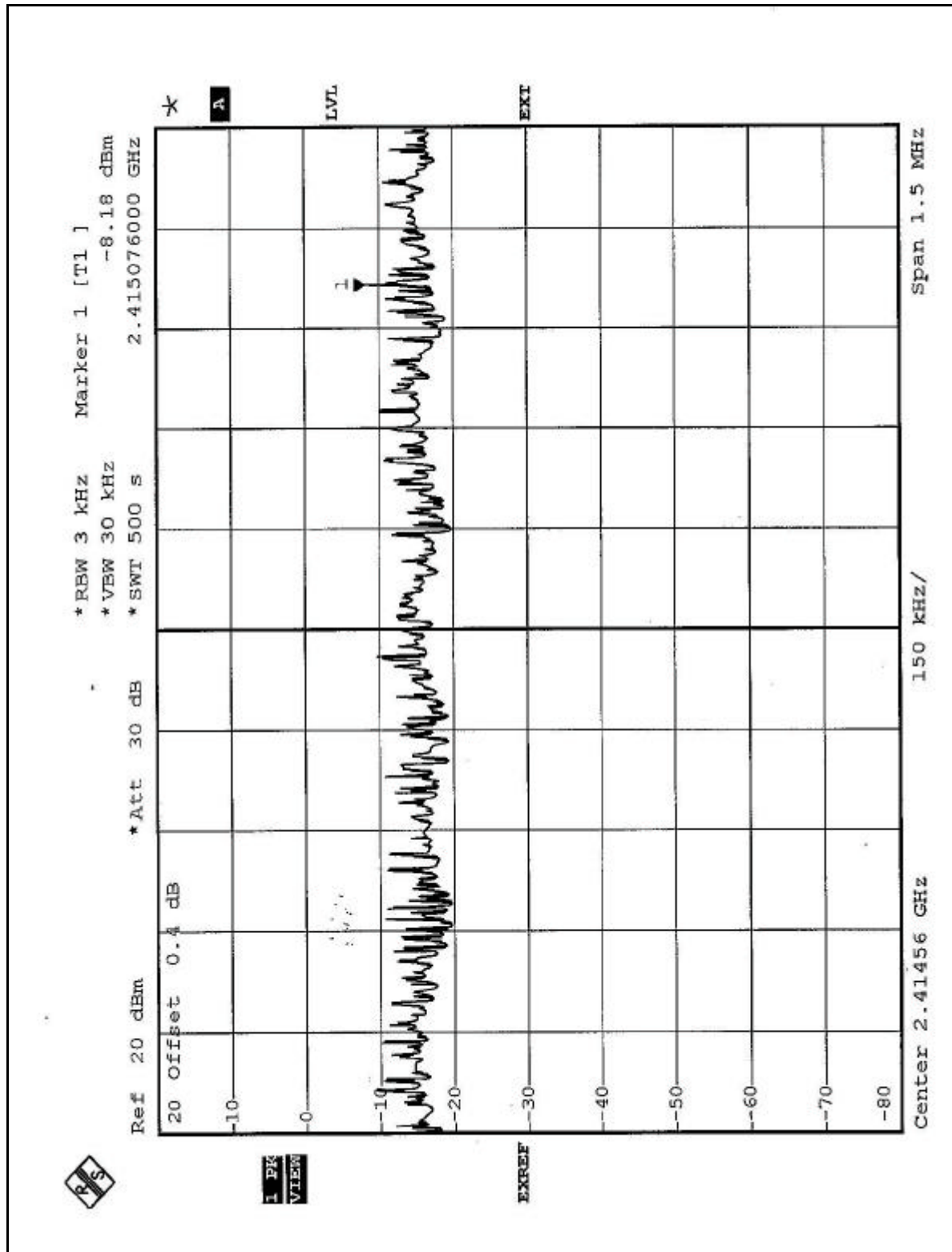
4.5.8 TEST RESULTS (B)

Normal mode

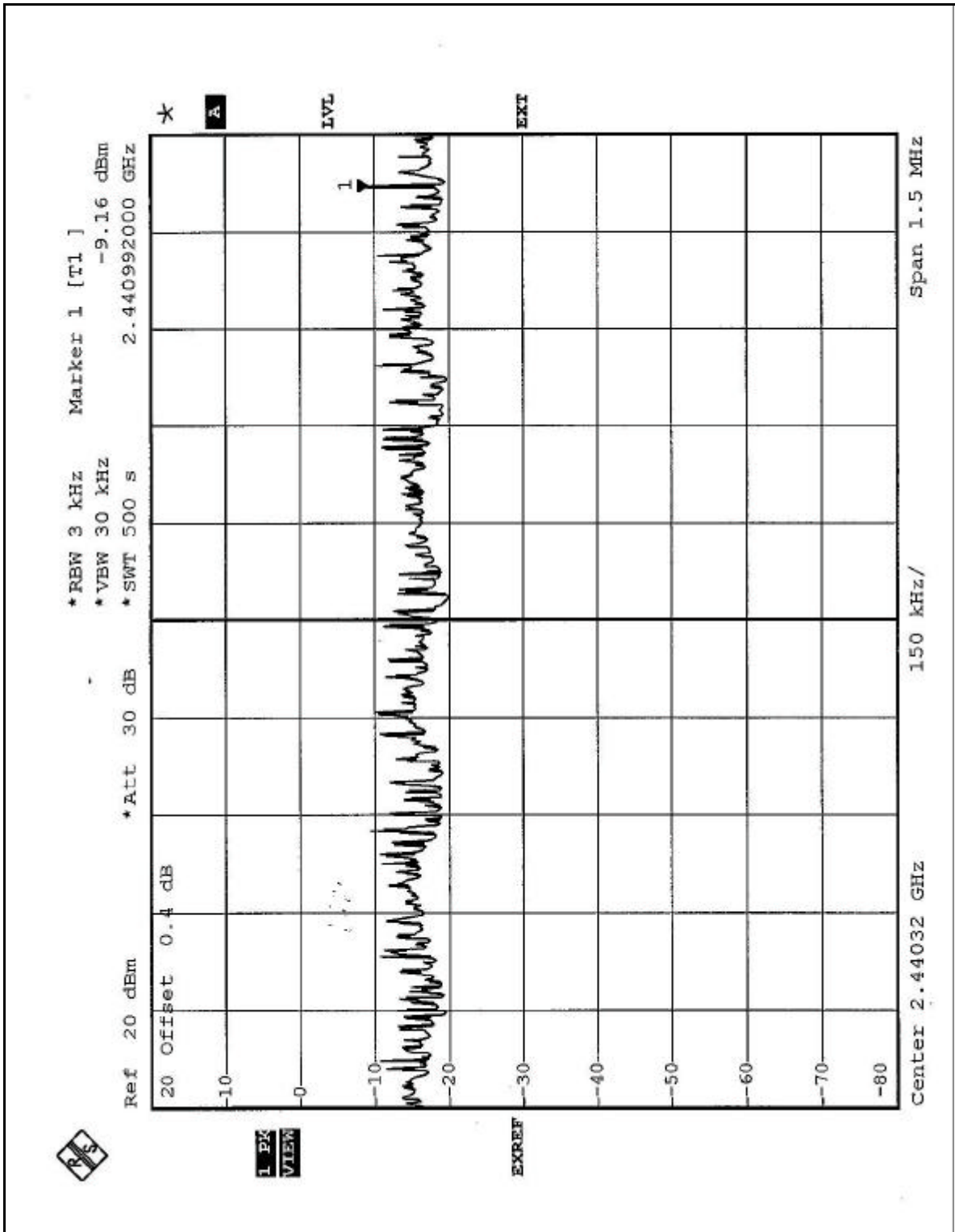
EUT	Wireless PCMCIA Card	MODEL	F5D7011
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH, 991 hPa
TESTED BY	Match Tsui	TEST MODE	Test Mode 1

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-8.18	8	PASS
6	2437	-9.16	8	PASS
11	2462	-8.11	8	PASS

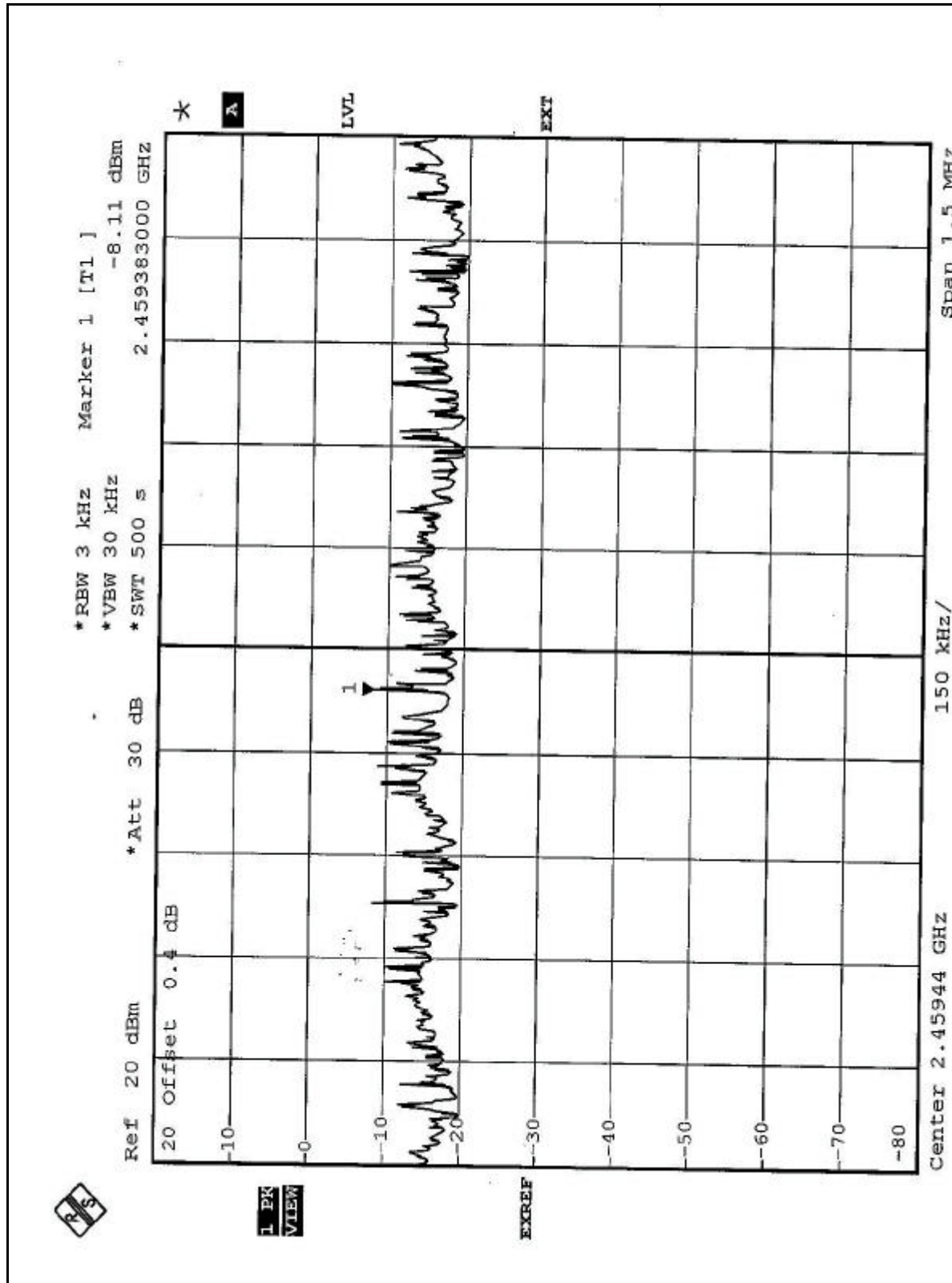
CH1



CH6



CH11

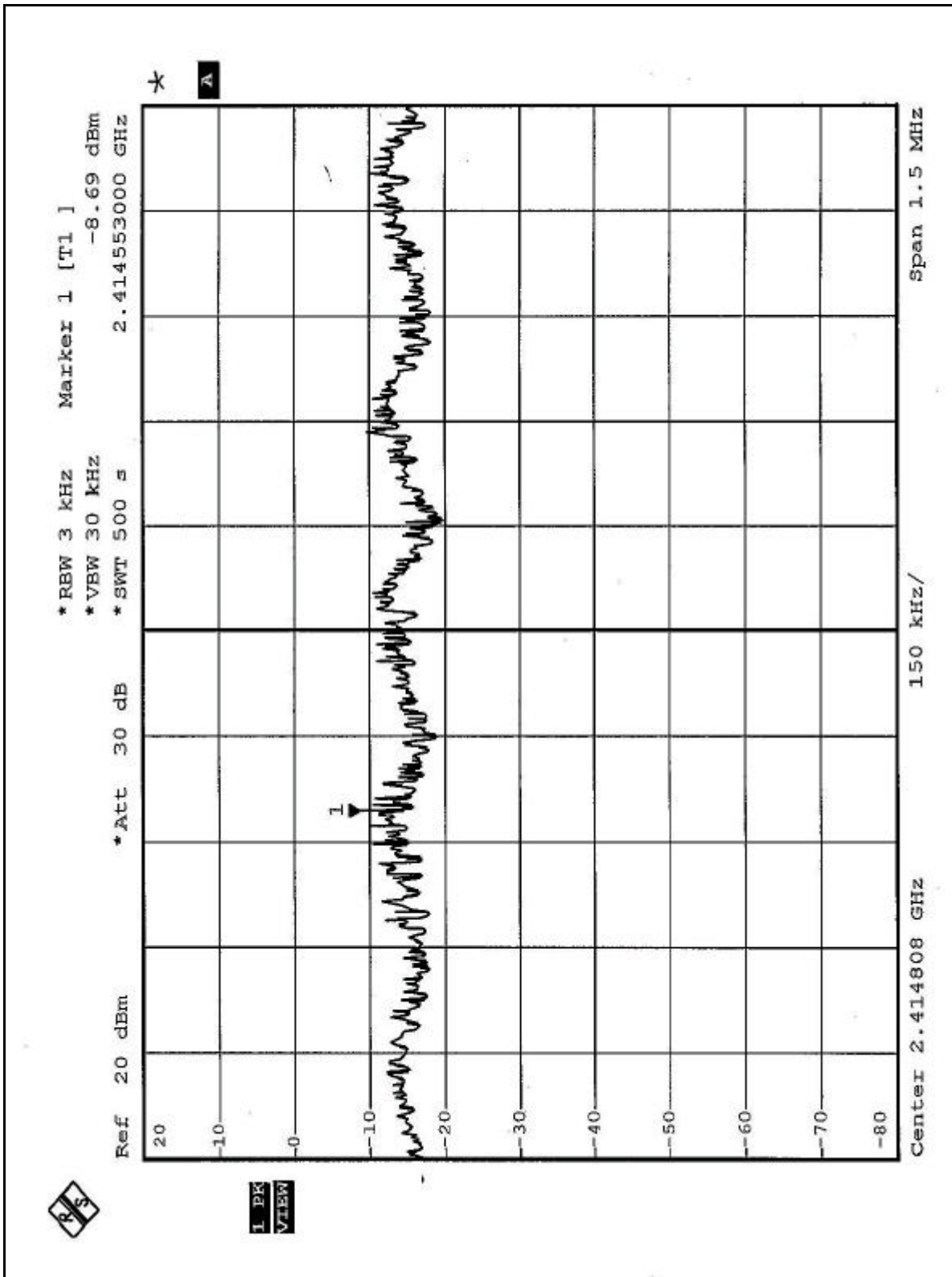




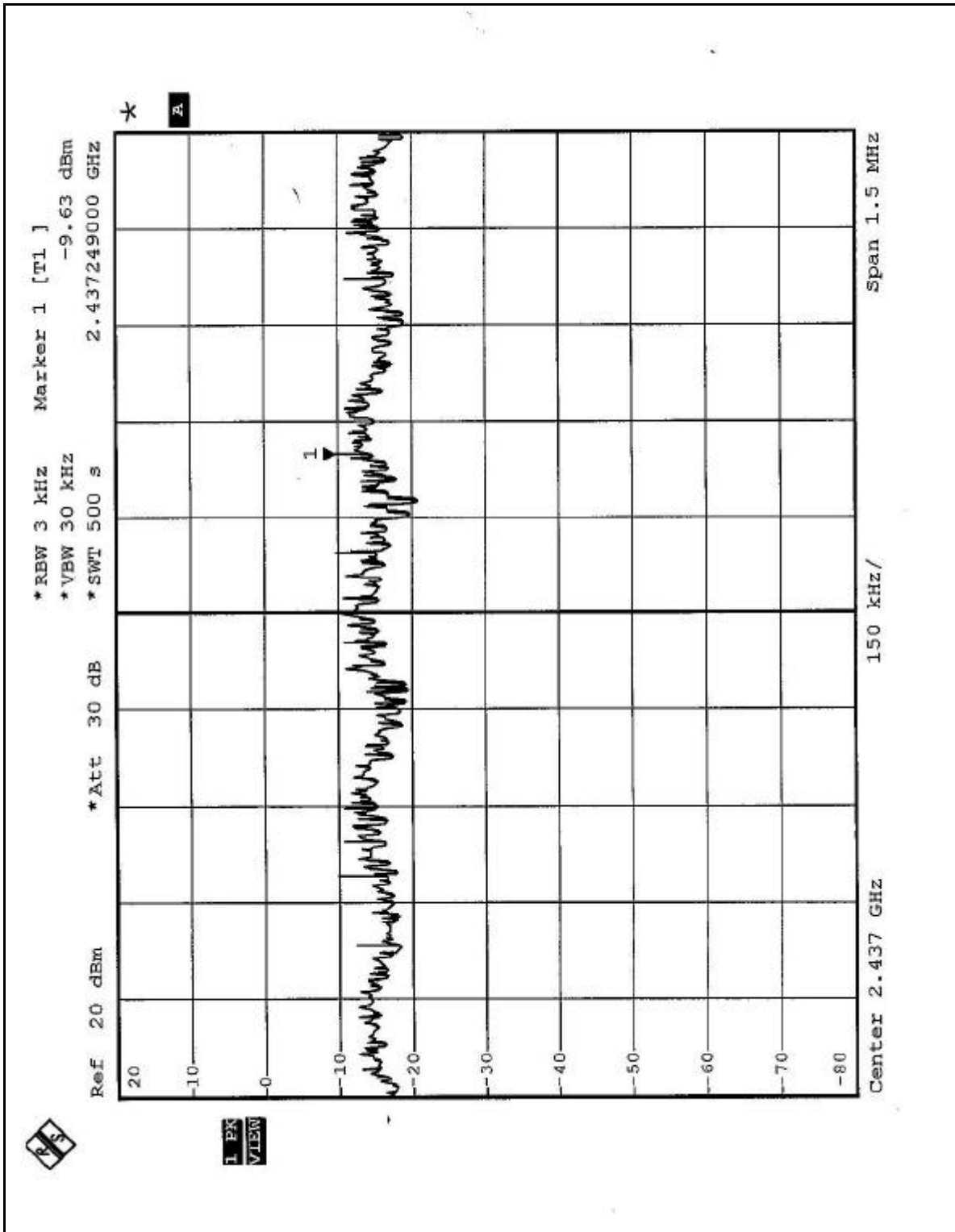
EUT	Wireless PCMCIA Card	MODEL	F5D7011
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991 hPa
TESTED BY	Leo Hung	TEST MODE	Test Mode 2

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-8.69	8	PASS
6	2437	-9.63	8	PASS
11	2462	--8.67	8	PASS

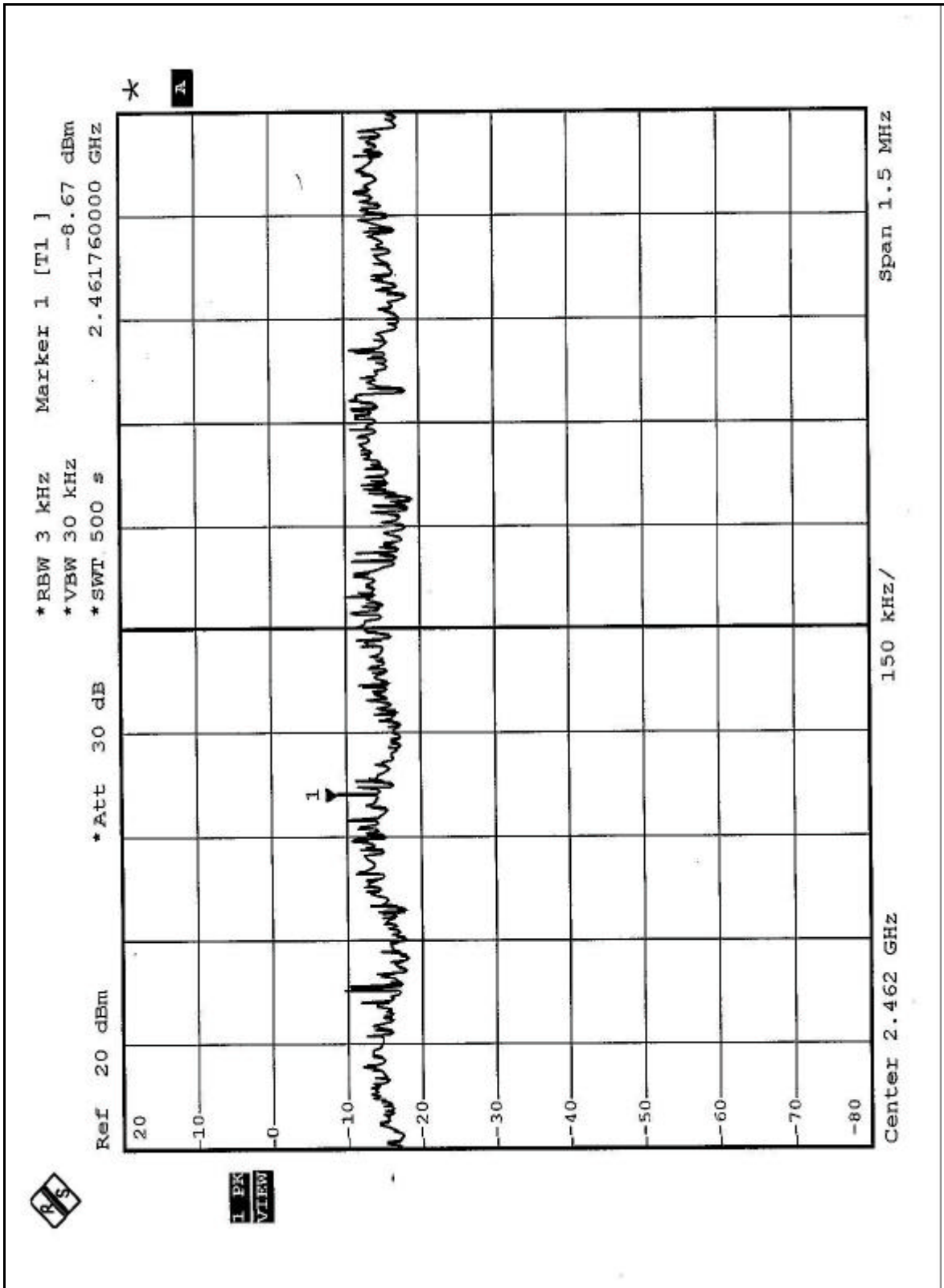
CH1



CH6



CH11

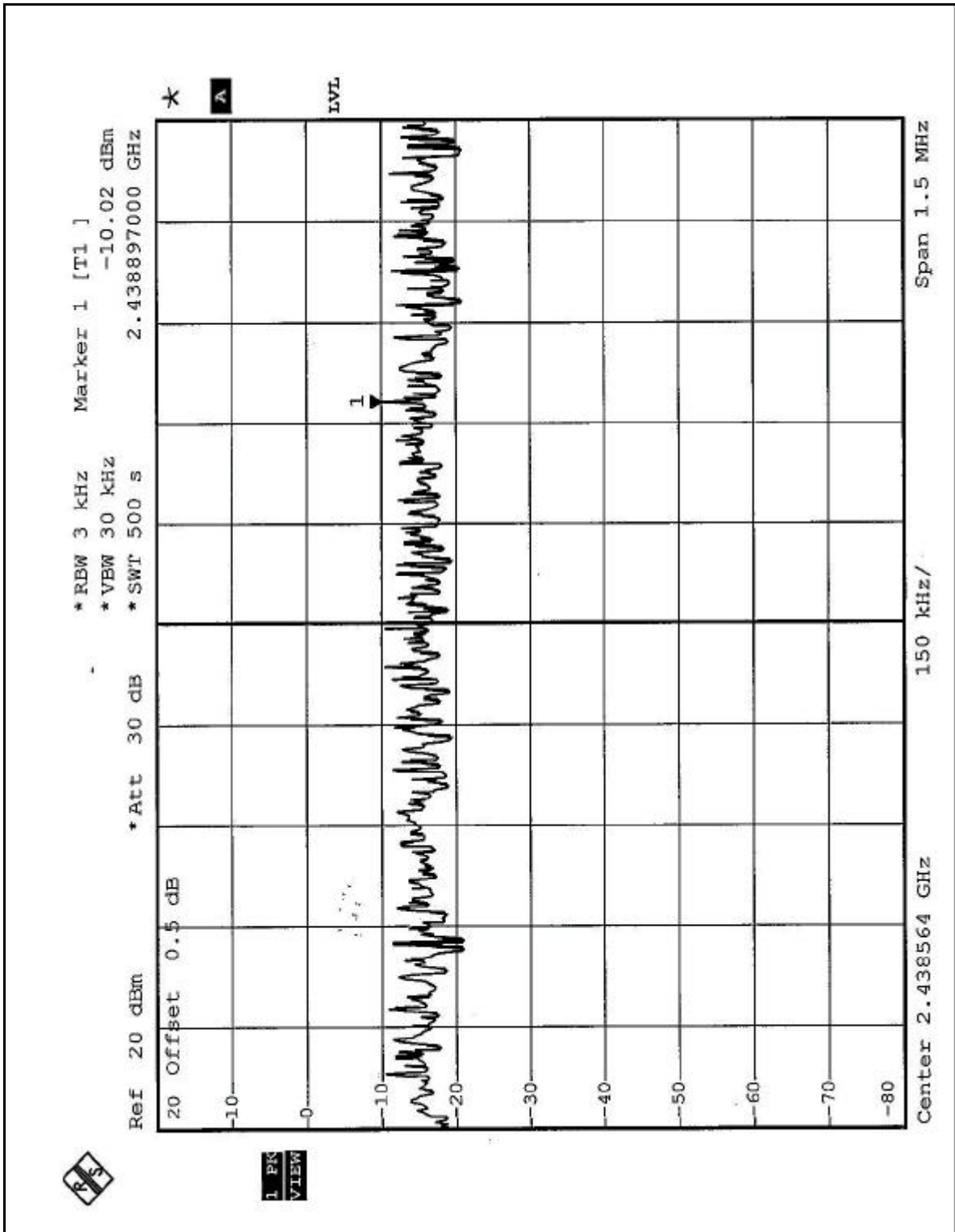


**Turbo mode**

EUT	Wireless PCMCIA Card	MODEL	F5D7011
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 65%RH, 991 hPa
TESTED BY	Match Tsui	TEST MODE	Test Mode 1

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
6	2437	-10.02	8	PASS

CH6

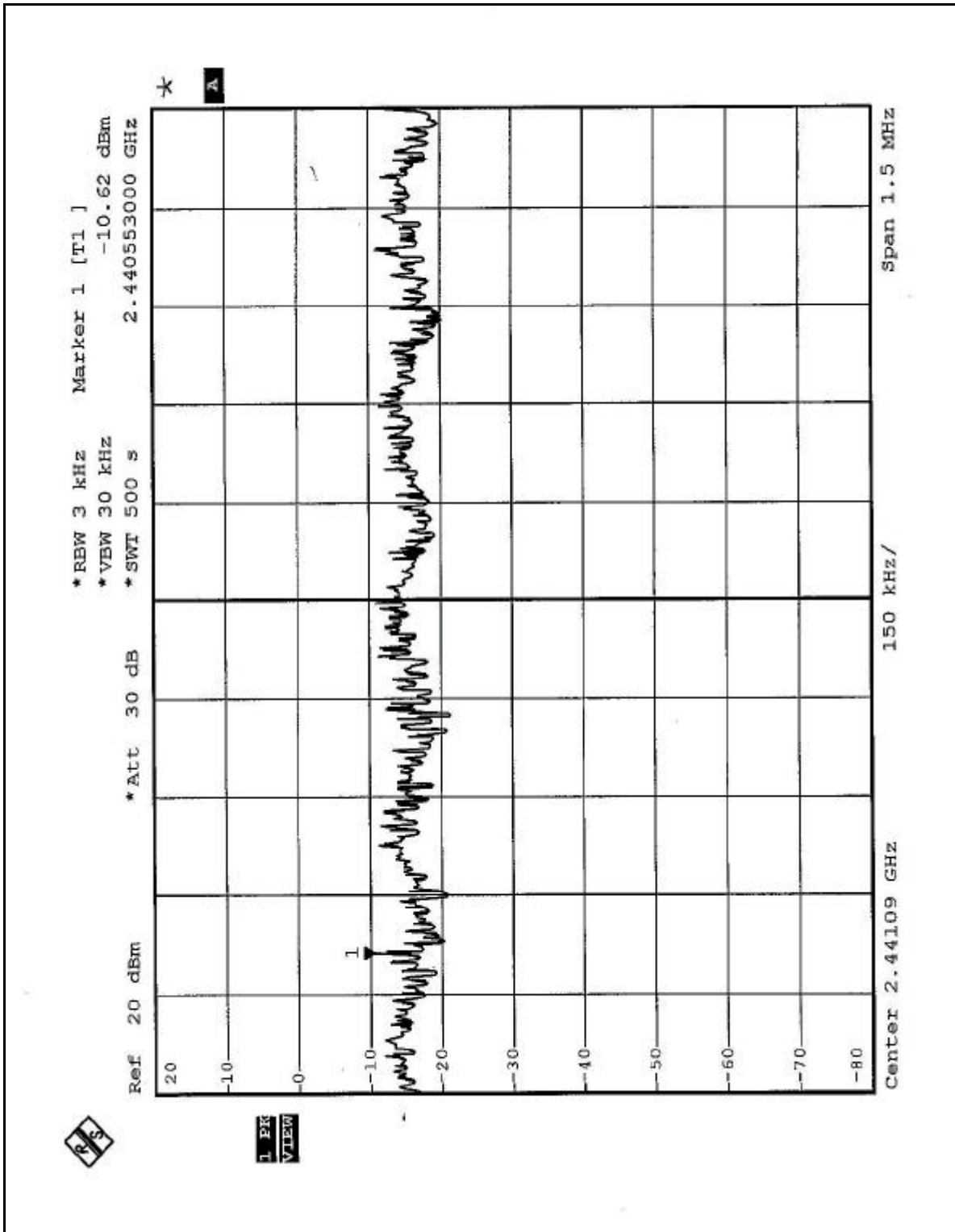




EUT	Wireless PCMCIA Card	MODEL	F5D7011
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991 hPa
TESTED BY	Leo Hung	TEST MODE	Test Mode 2

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
6	2437	-10.62	8	PASS

CH6



4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

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

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. Set both RBW and VBW of spectrum analyzer to 100kHz and 100kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

4.6.6 TEST RESULTS (A)

The spectrum plots are attached on the following 4 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

Test Mode 1

NOTE:

The band edge emission plot on the following 1~2 pages show 54.24dB delta between carrier maximum power and local maximum emission in restrict band (2.3859GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 is 105.60dBuV/m, so the maximum field strength in restrict band is $105.60 - 54.24 = 51.36$ dBuV/m which is under 54dBuV/m limit.

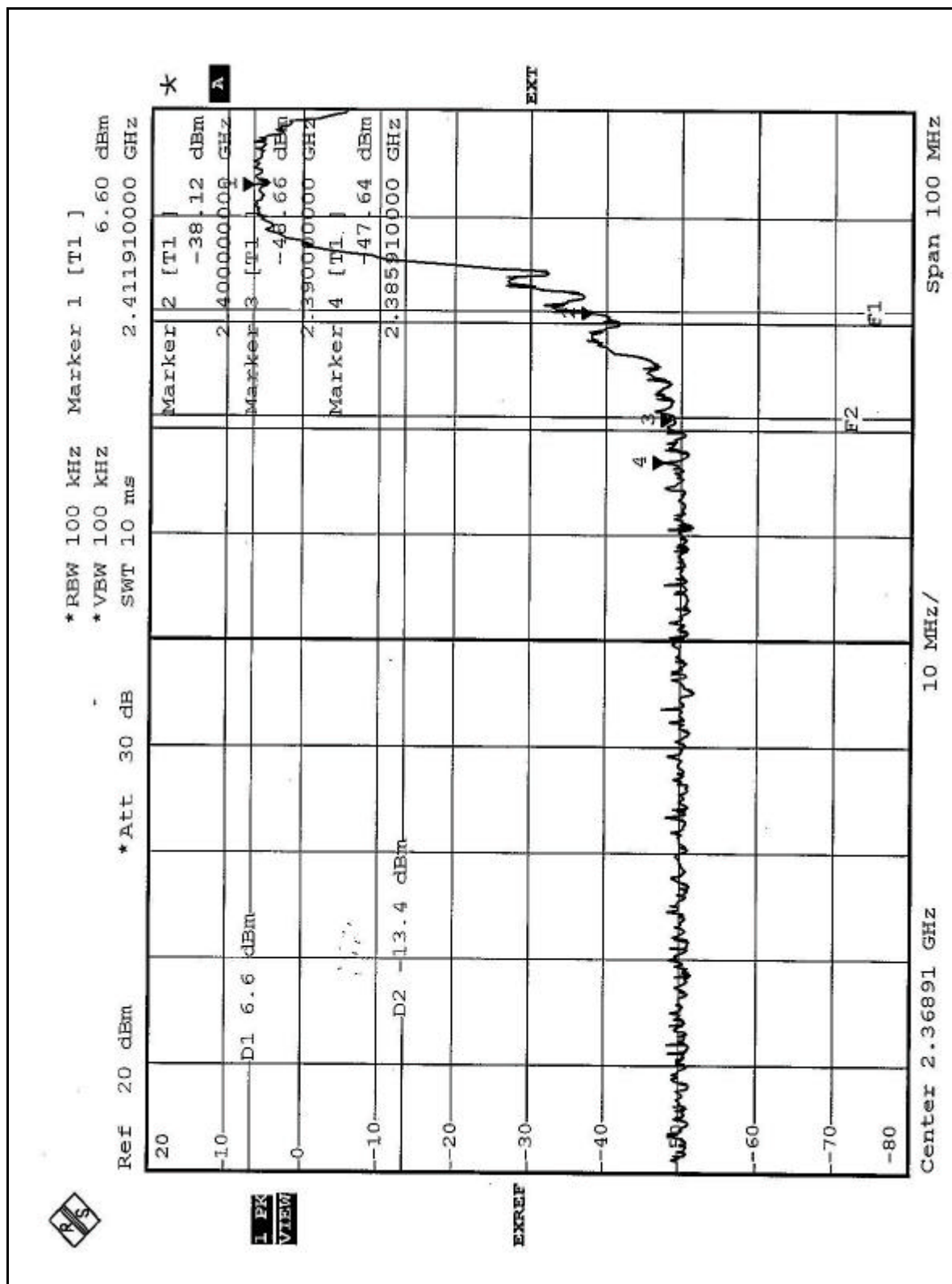
The band edge emission plot on the following 3~4 pages show 53.91dB delta between carrier maximum power and local maximum emission in restrict band (2.4863GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.8 is 104.65dBuV/m, so the maximum field strength in restrict band is $104.65 - 53.91 = 50.74$ dBuV/m which is under 54dBuV/m limit.

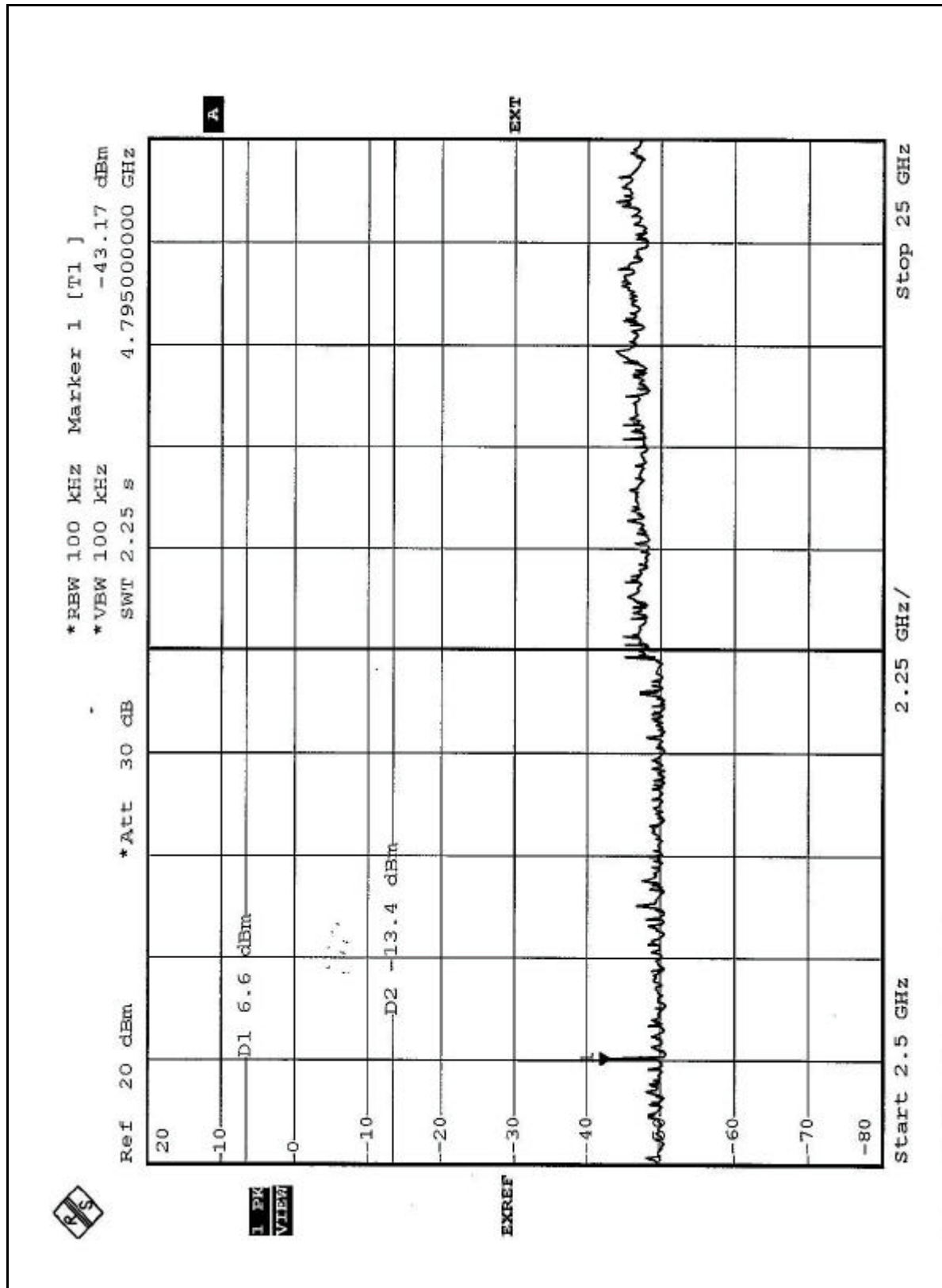
Test Mode 2

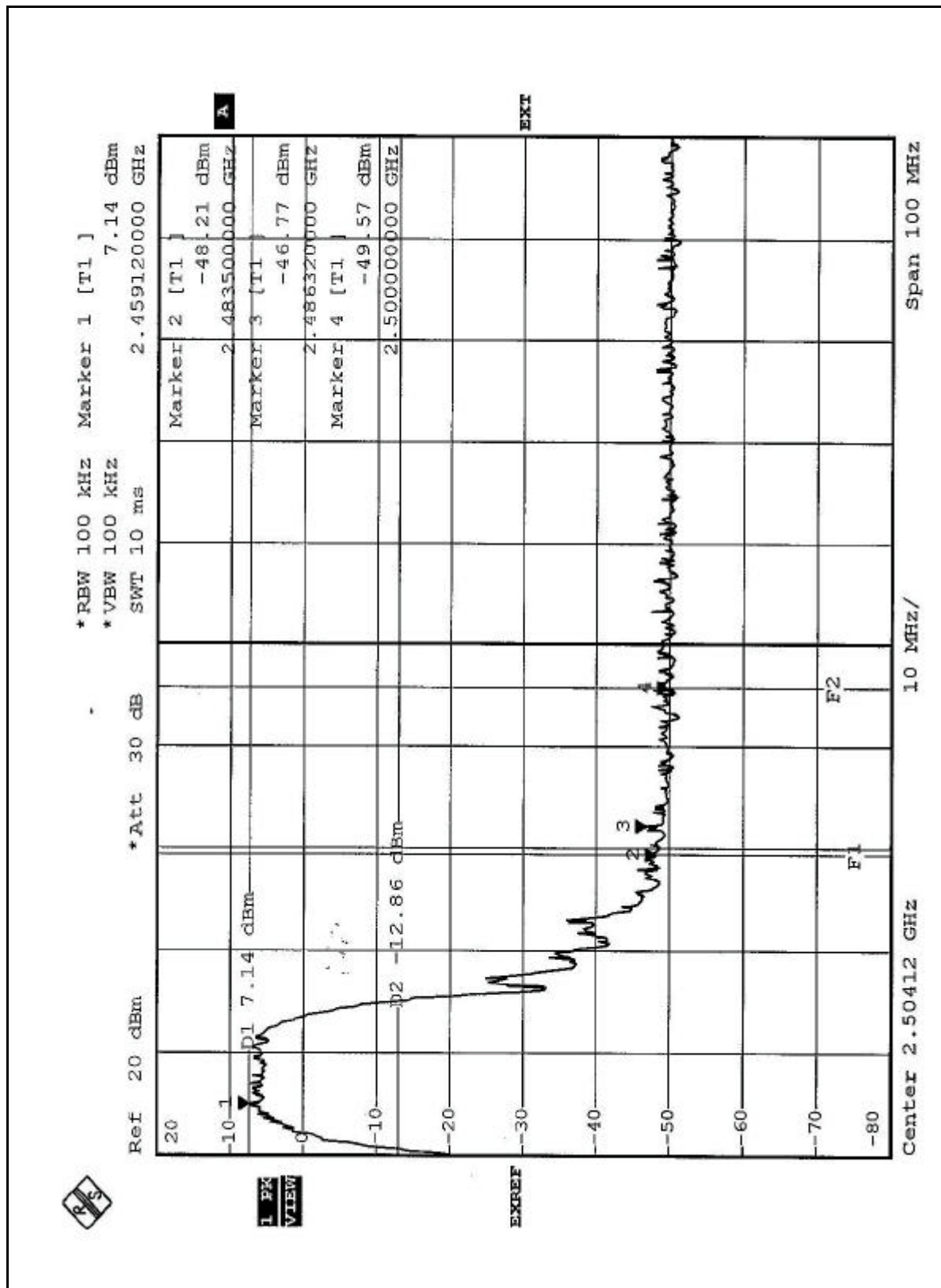
NOTE:

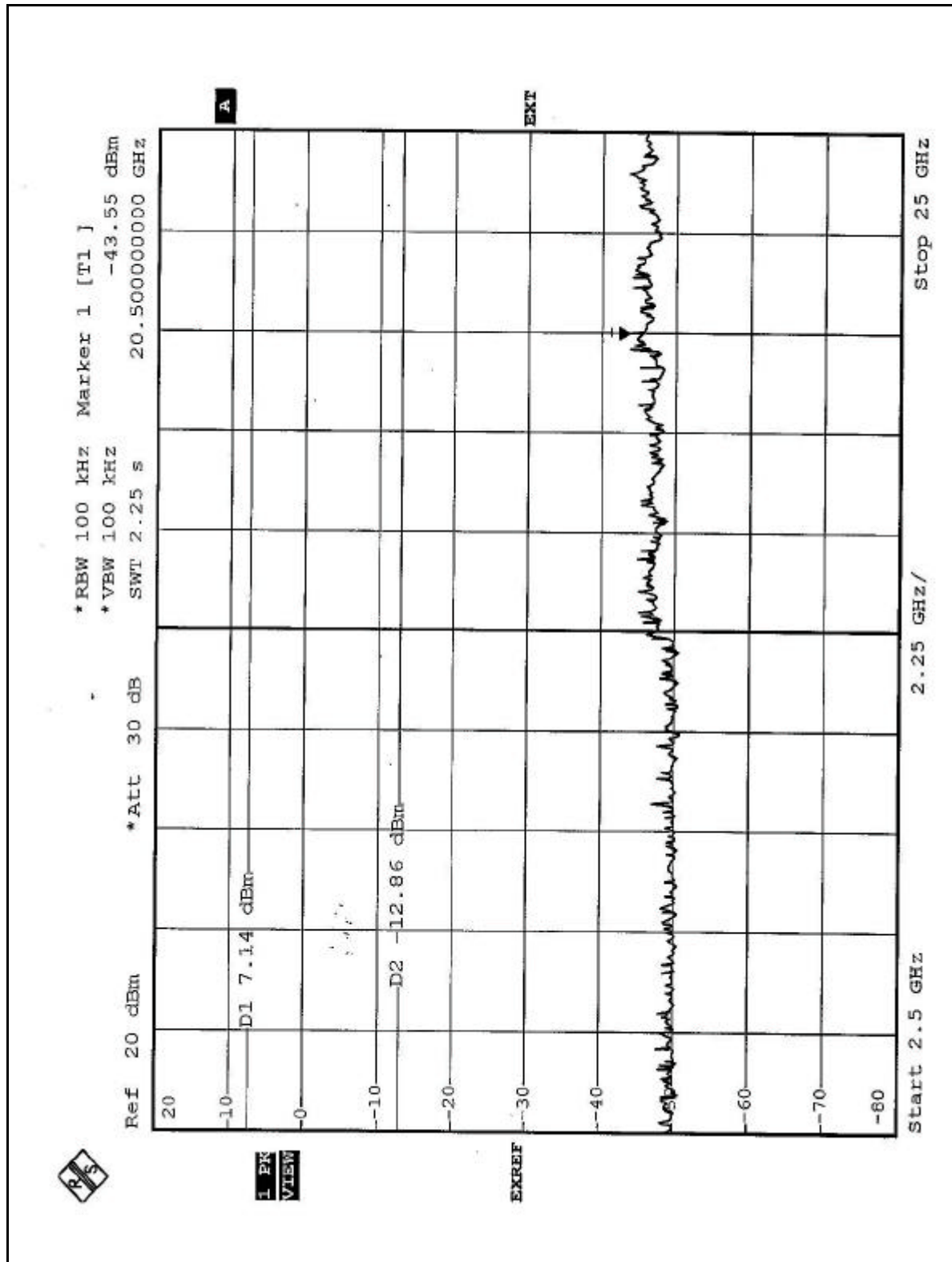
The band edge emission plot on the following 5~6 pages show 56.88dB delta between carrier maximum power and local maximum emission in restrict band (2.3868GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 is 105.01dBuV/m, so the maximum field strength in restrict band is $105.01 - 56.88 = 48.13$ dBuV/m which is under 54dBuV/m limit.

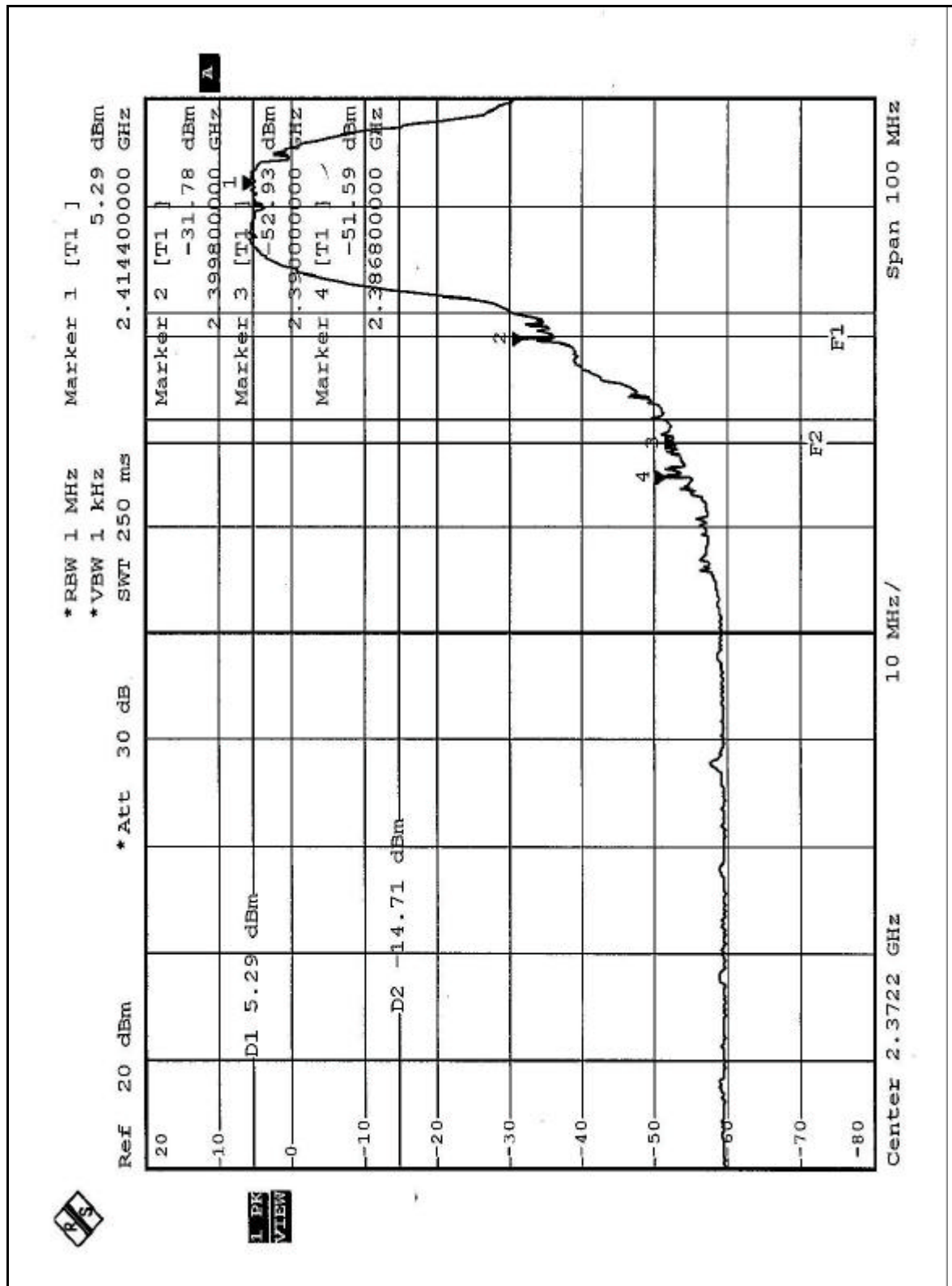
The band edge emission plot on the following 7~8 pages show 57.40dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.8 is 105.43dBuV/m, so the maximum field strength in restrict band is $105.43 - 57.40 = 48.03$ dBuV/m which is under 54dBuV/m limit.

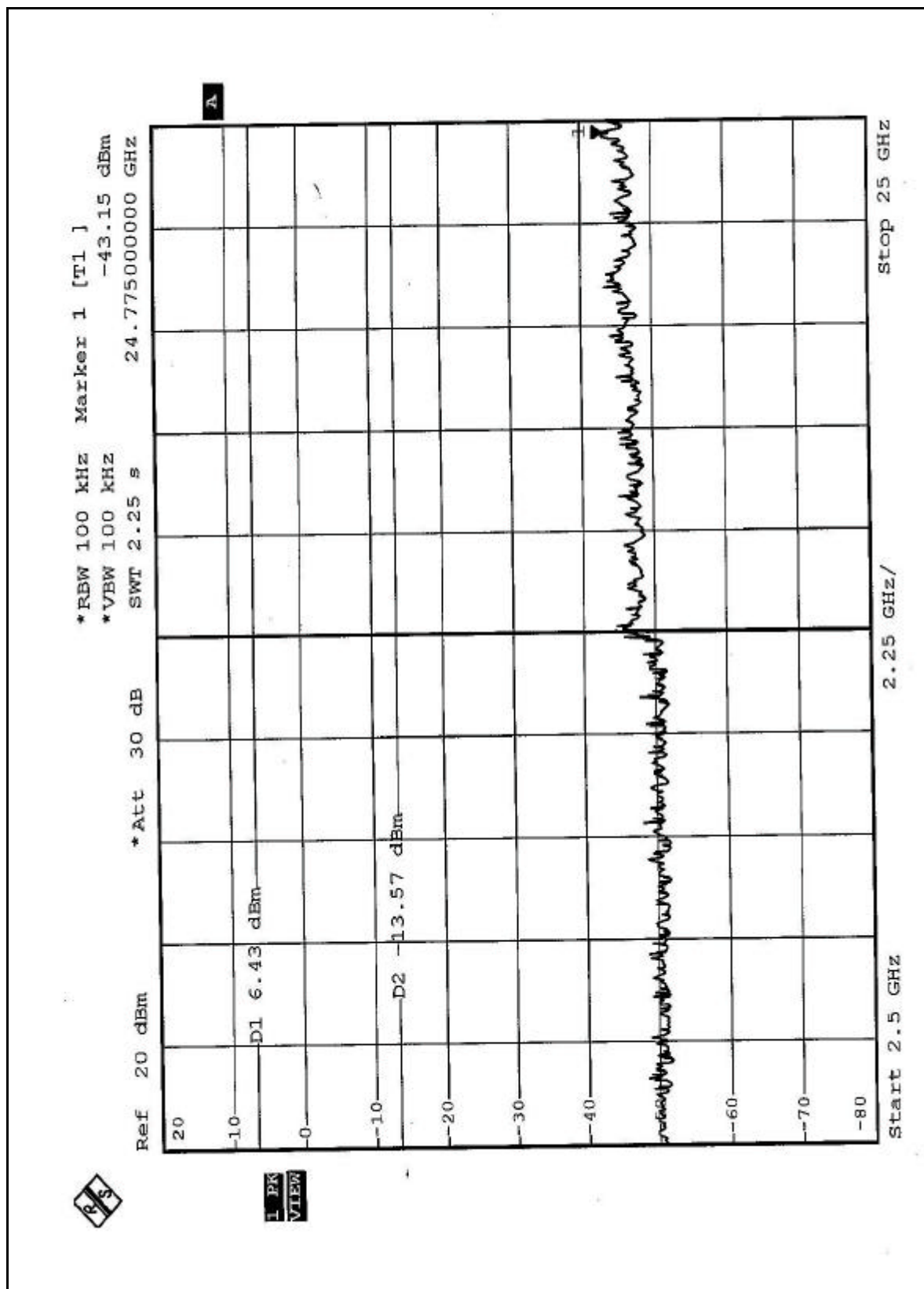


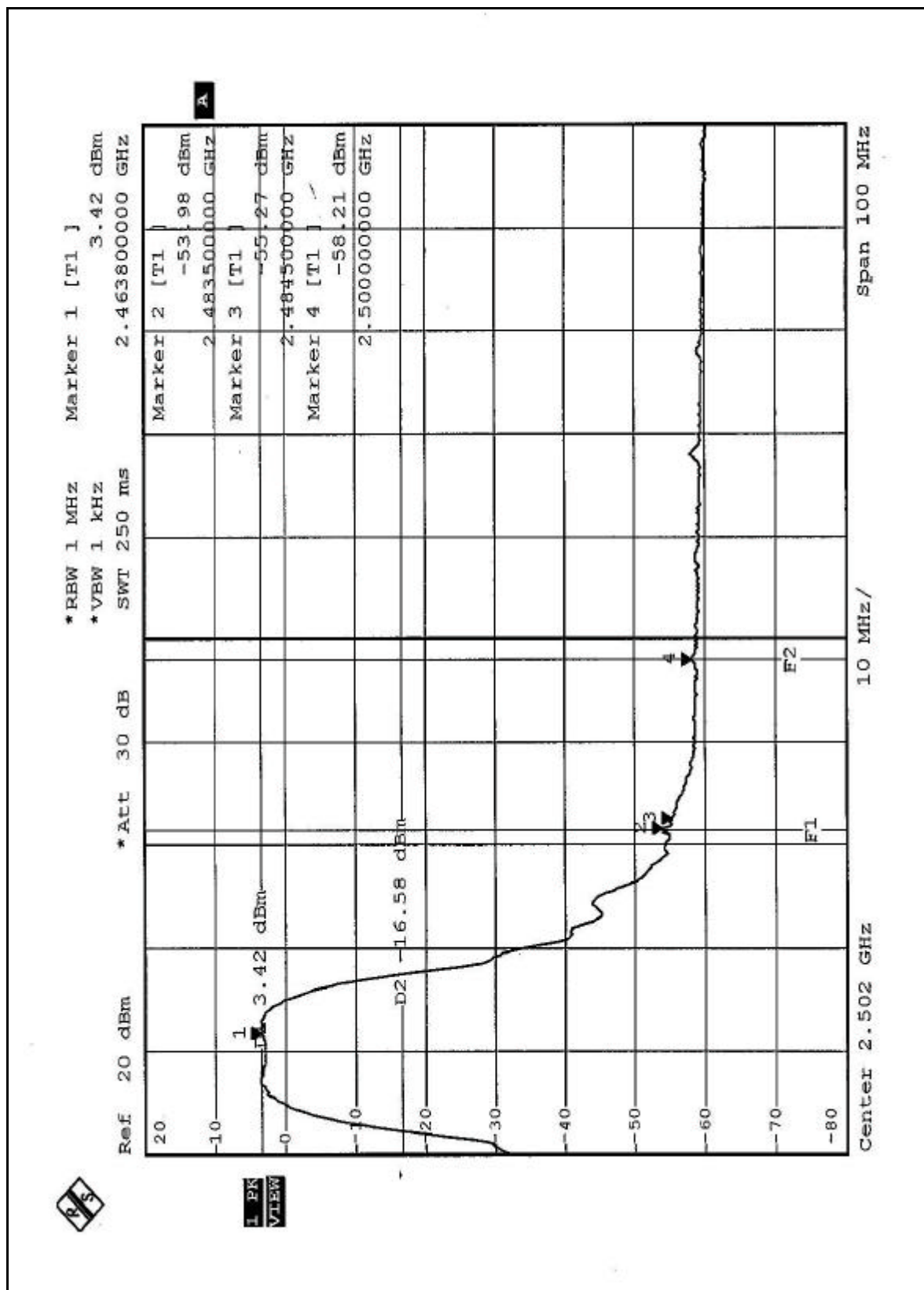


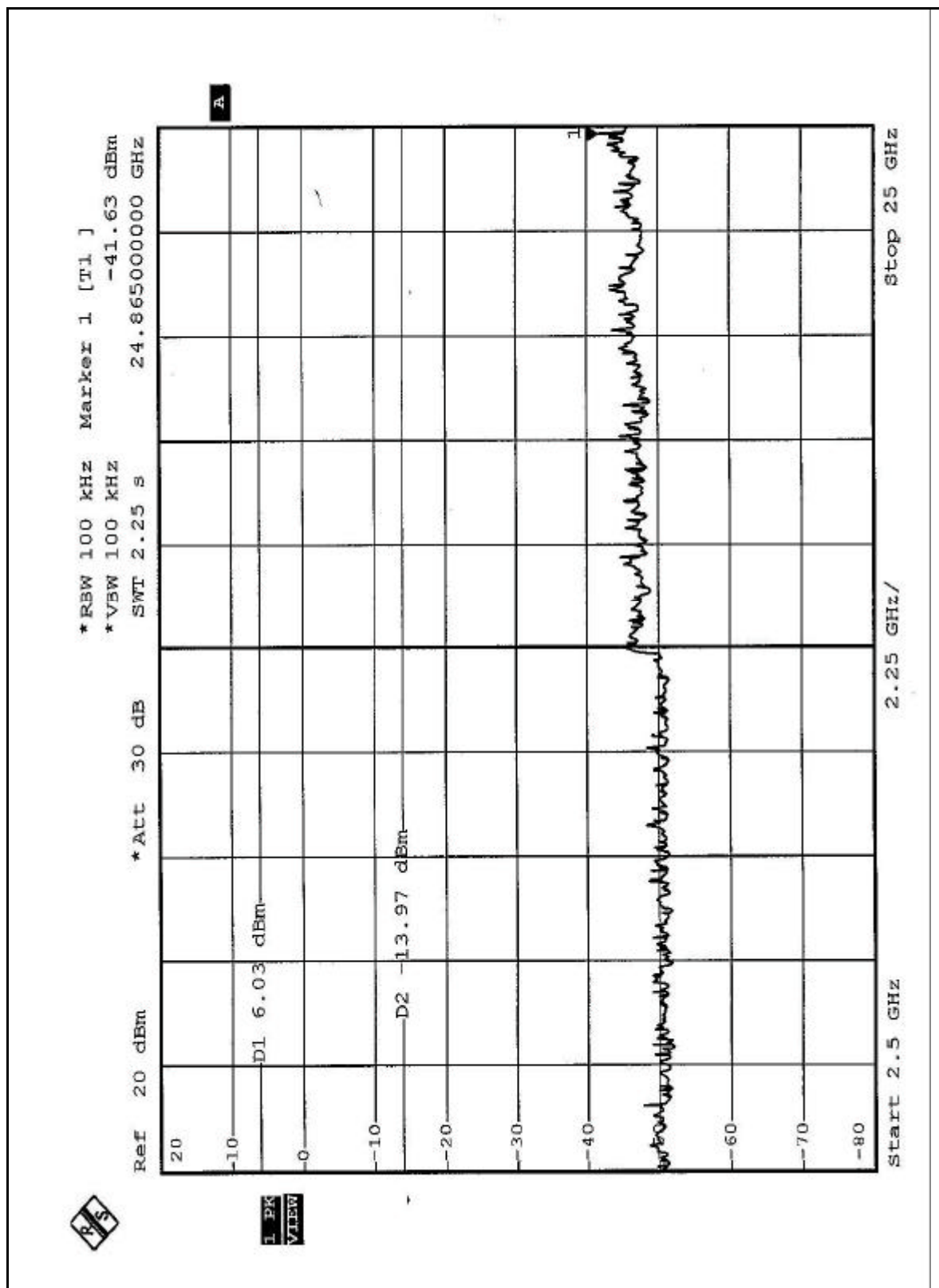












4.6.7 TEST RESULTS (B)

The spectrum plots are attached on the following 8 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

Test Mode 1

Normal mode

NOTE :

The band edge emission plot on the following 1~2 pages show 59.20dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.9 is 100.50dBuV/m, so the maximum field strength in restrict band is $100.50 - 59.20 = 41.30$ dBuV/m which is under 54dBuV/m limit.

The band edge emission plot on the following 3~4 pages show 58.25dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.9 is 101.90dBuV/m, so the maximum field strength in restrict band is $101.90 - 58.25 = 43.25$ dBuV/m which is under 54dBuV/m limit.

Test Mode 2

NOTE :

The band edge emission plot on the following 5~6 pages show 57.78dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.9 is 103.27dBuV/m, so the maximum field strength in restrict band is $103.27 - 57.78 = 45.49$ dBuV/m which is under 54dBuV/m limit.

The band edge emission plot on the following 7~8 pages show 57.84dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.9 is 101.95dBuV/m, so the maximum field strength in restrict band is $101.95 - 57.84 = 44.11$ dBuV/m which is under 54dBuV/m limit.

Test Mode 1**Turbo mode****NOTE :**

The band edge emission plot on the following 9~10 pages show 53.75dB delta between carrier maximum power and local maximum emission in restrict band (2.3530GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.9 is 97.62dBuV/m, so the maximum field strength in restrict band is $97.62 - 53.75 = 43.88$ dBuV/m which is under 54dBuV/m limit.

The band edge emission plot on the following 11~12 pages show 54.14dB delta between carrier maximum power and local maximum emission in restrict band (2.4856GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.9 is 97.62dBuV/m, so the maximum field strength in restrict band is $97.62 - 54.14 = 43.49$ dBuV/m which is under 54dBuV/m limit.

Test Mode 2**NOTE :**

The band edge emission plot on the following 13~14 pages show 52.52dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.9 is 96.80dBuV/m, so the maximum field strength in restrict band is $96.80 - 52.52 = 44.28$ dBuV/m which is under 54dBuV/m limit.

The band edge emission plot on the following 15~16 pages show 49.43dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.9 is 96.80dBuV/m, so the maximum field strength in restrict band is $96.80 - 49.43 = 47.37$ dBuV/m which is under 54dBuV/m limit.