

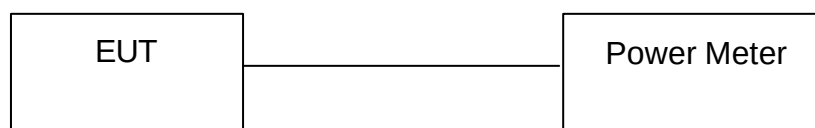
5.4.3 TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set the spectrum bandwidth span to view the entire spectrum.
3. Using peak detector and Max-hold function for Trace 1 (RB=1MHz, VB=3MHz) and 2 (RB=1MHz, VB=300kHz).
4. The largest difference between Trace 1 and Trace 2 in any 1MHz band on any frequency was recorded.

5.4.4 DEVIATION FROM TEST STANDARD

No deviation

5.4.5 TEST SETUP



5.4.6 EUT OPERATING CONDITIONS

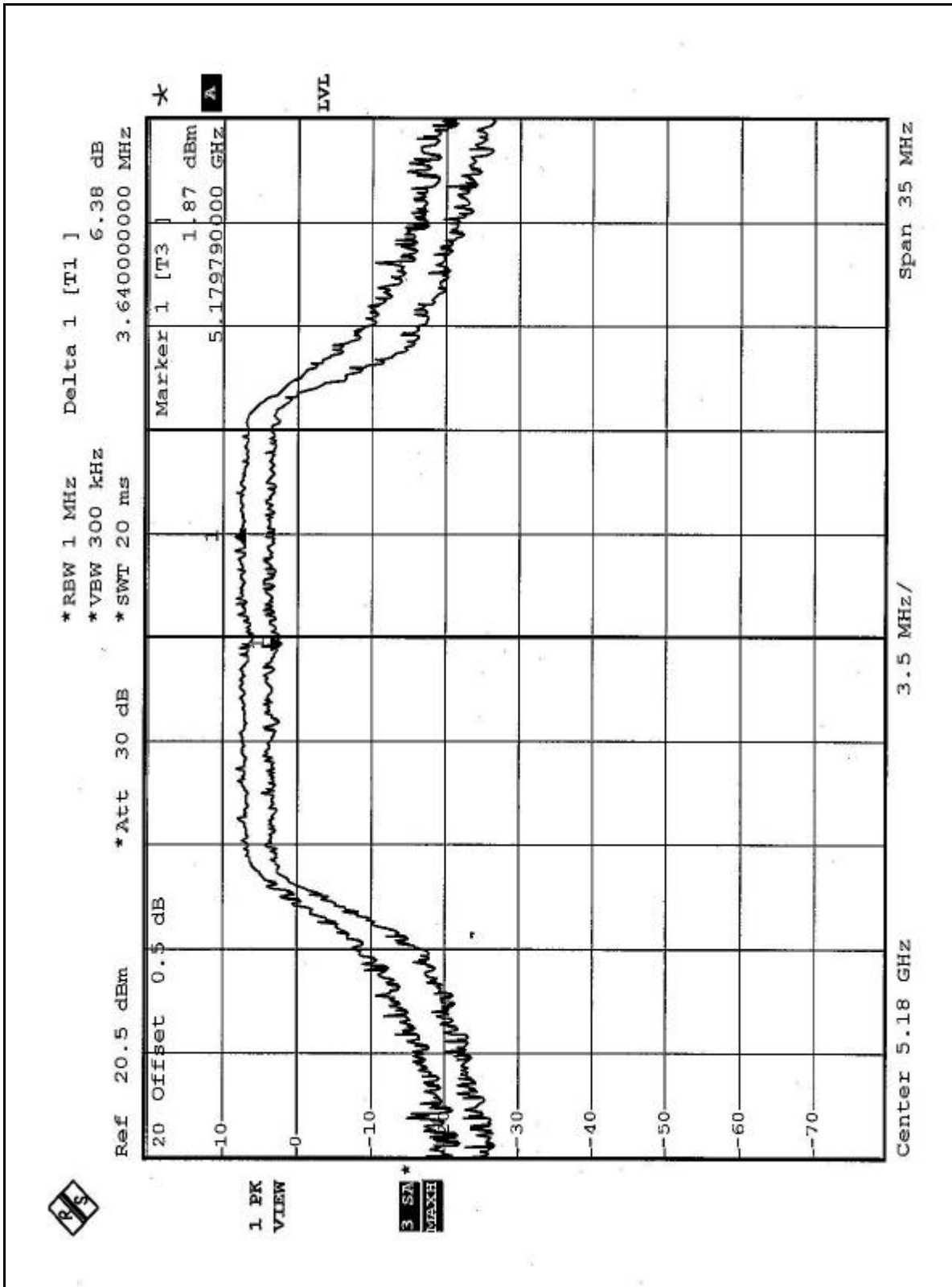
The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

5.4.7 TEST RESULTS

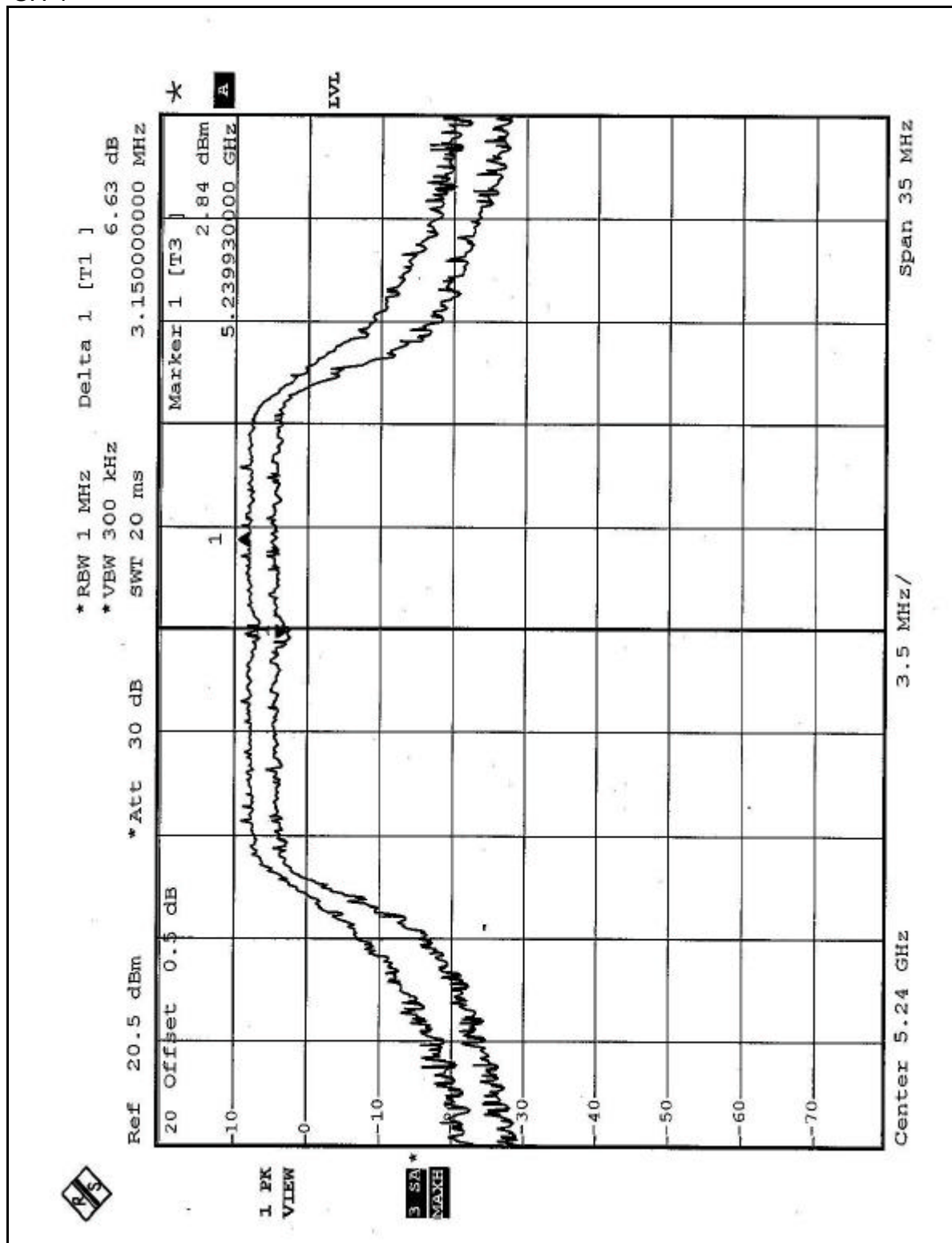
EUT	Mini- PCI CARD	MODEL	WLL4030
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
1	5180	6.38	13	PASS
4	5240	6.63	13	PASS
5	5260	6.62	13	PASS
8	5320	6.34	13	PASS
9	5745	6.60	13	PASS
12	5805	7.36	13	PASS

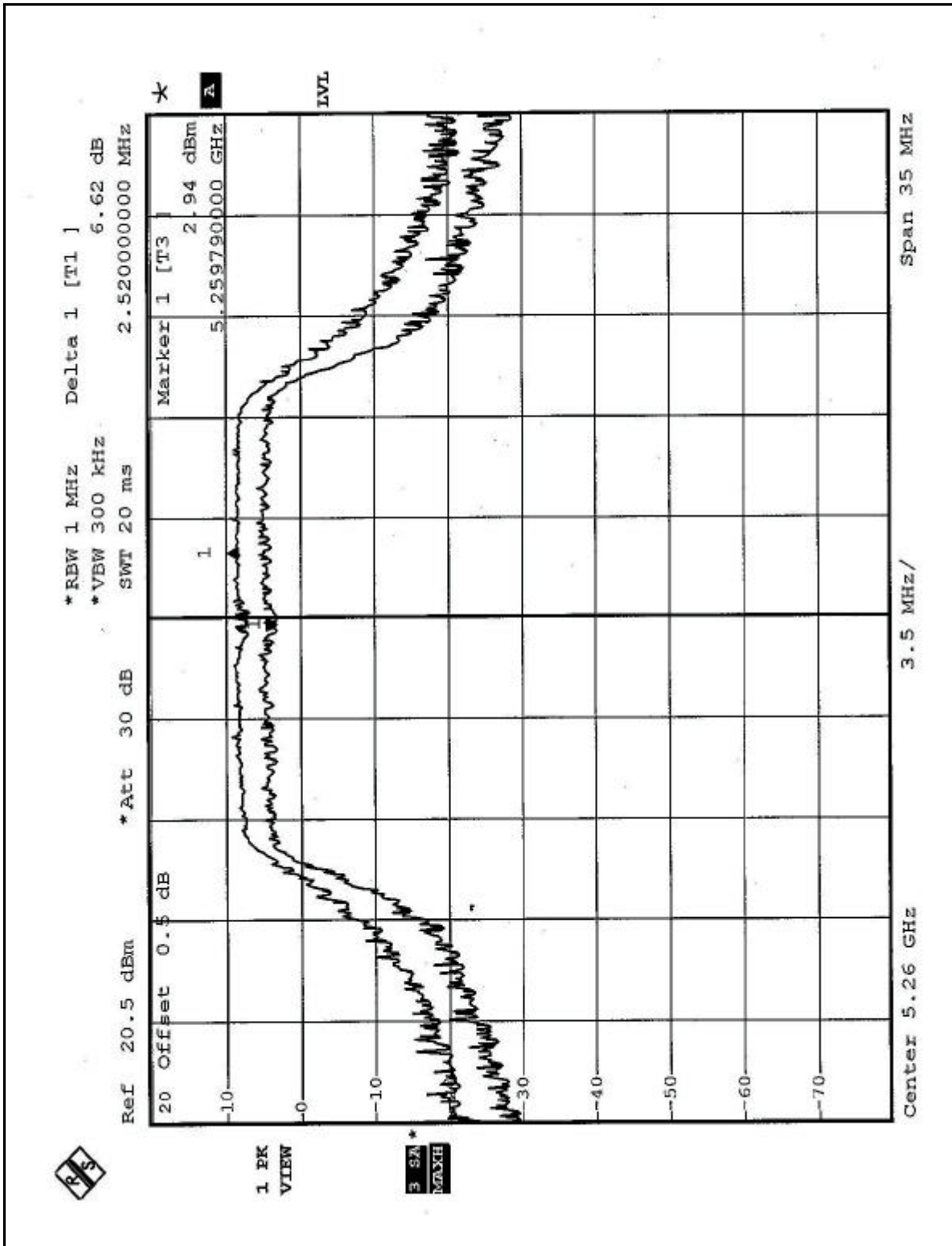
CH 1



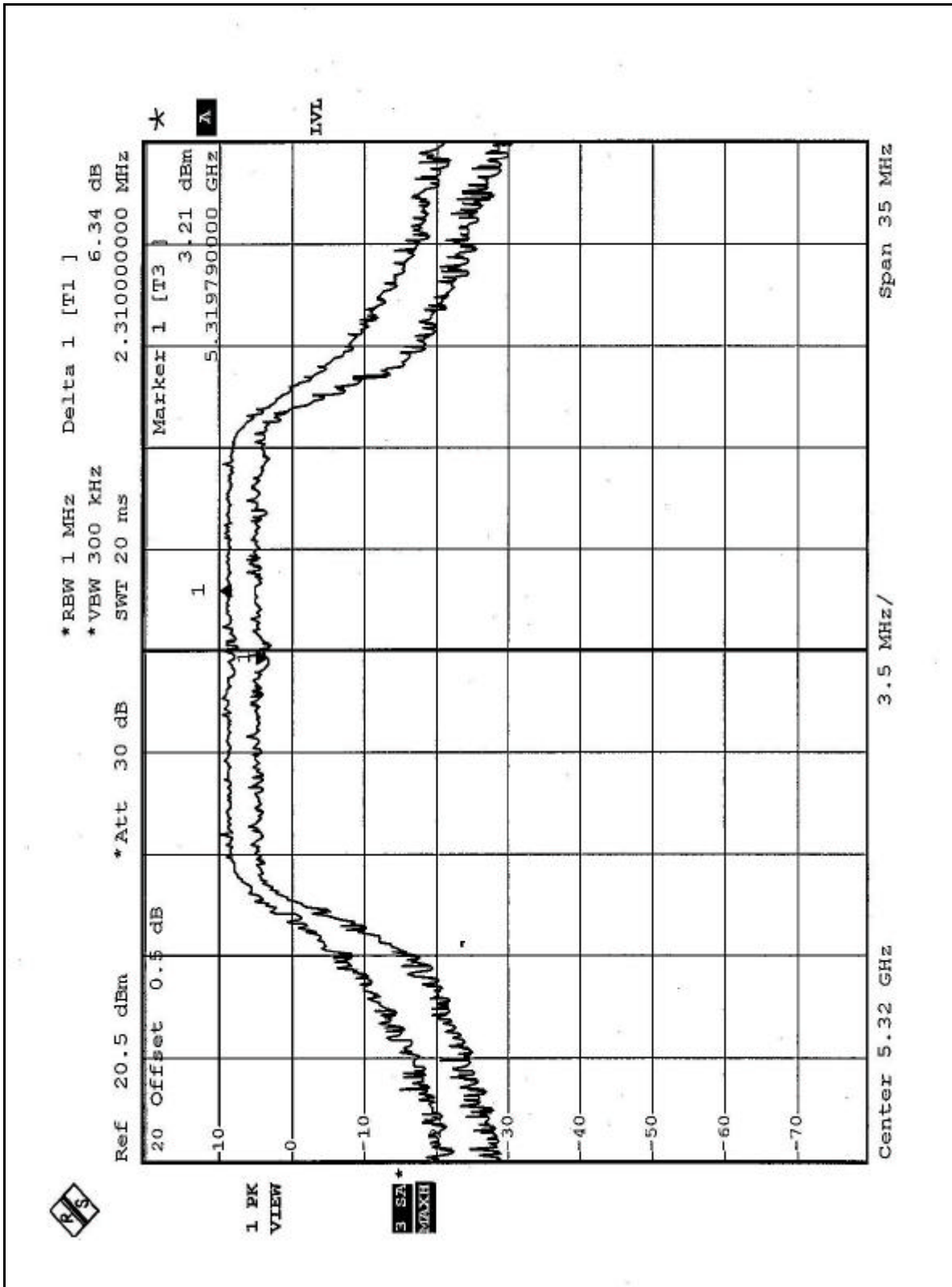
CH 4



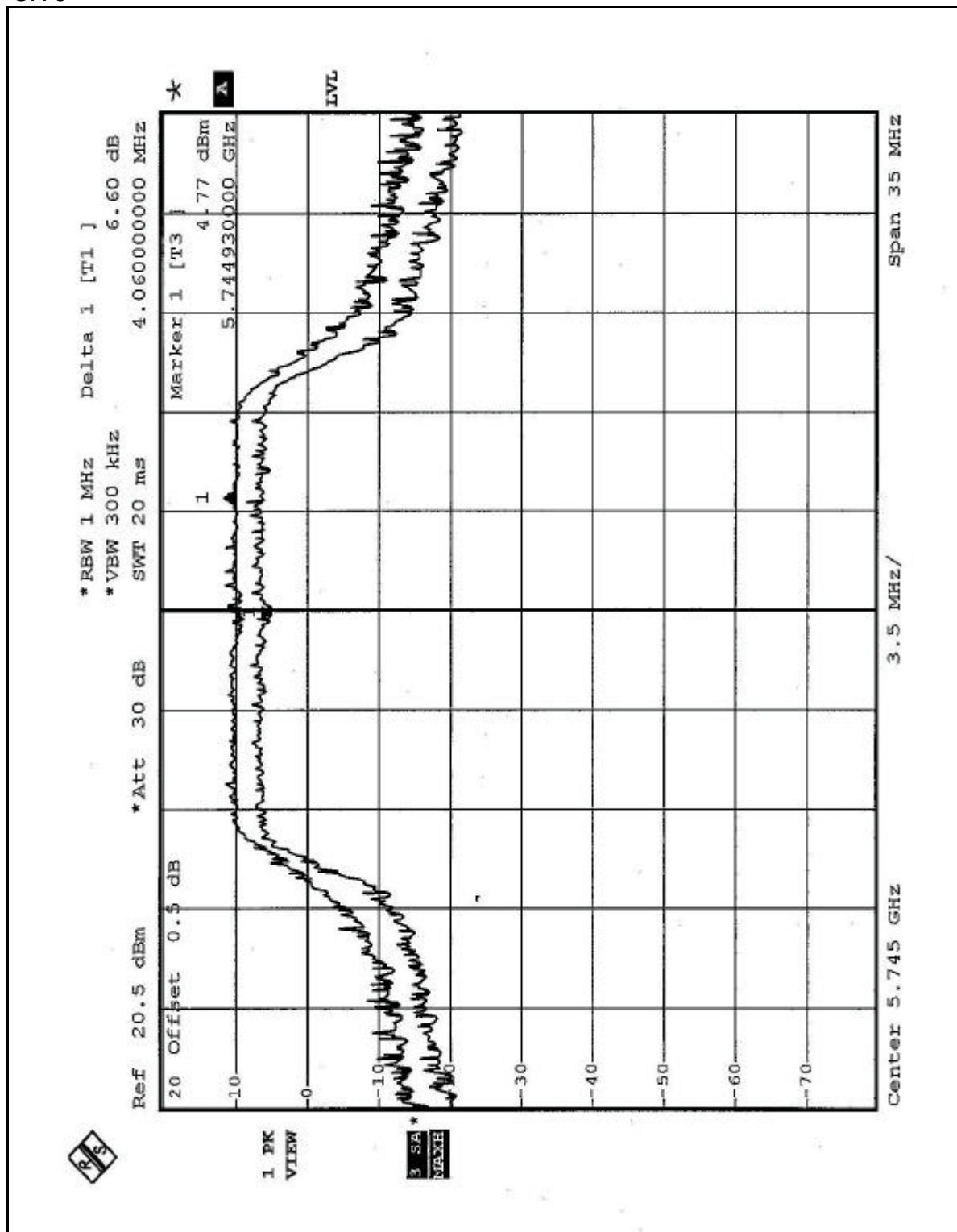
CH 5



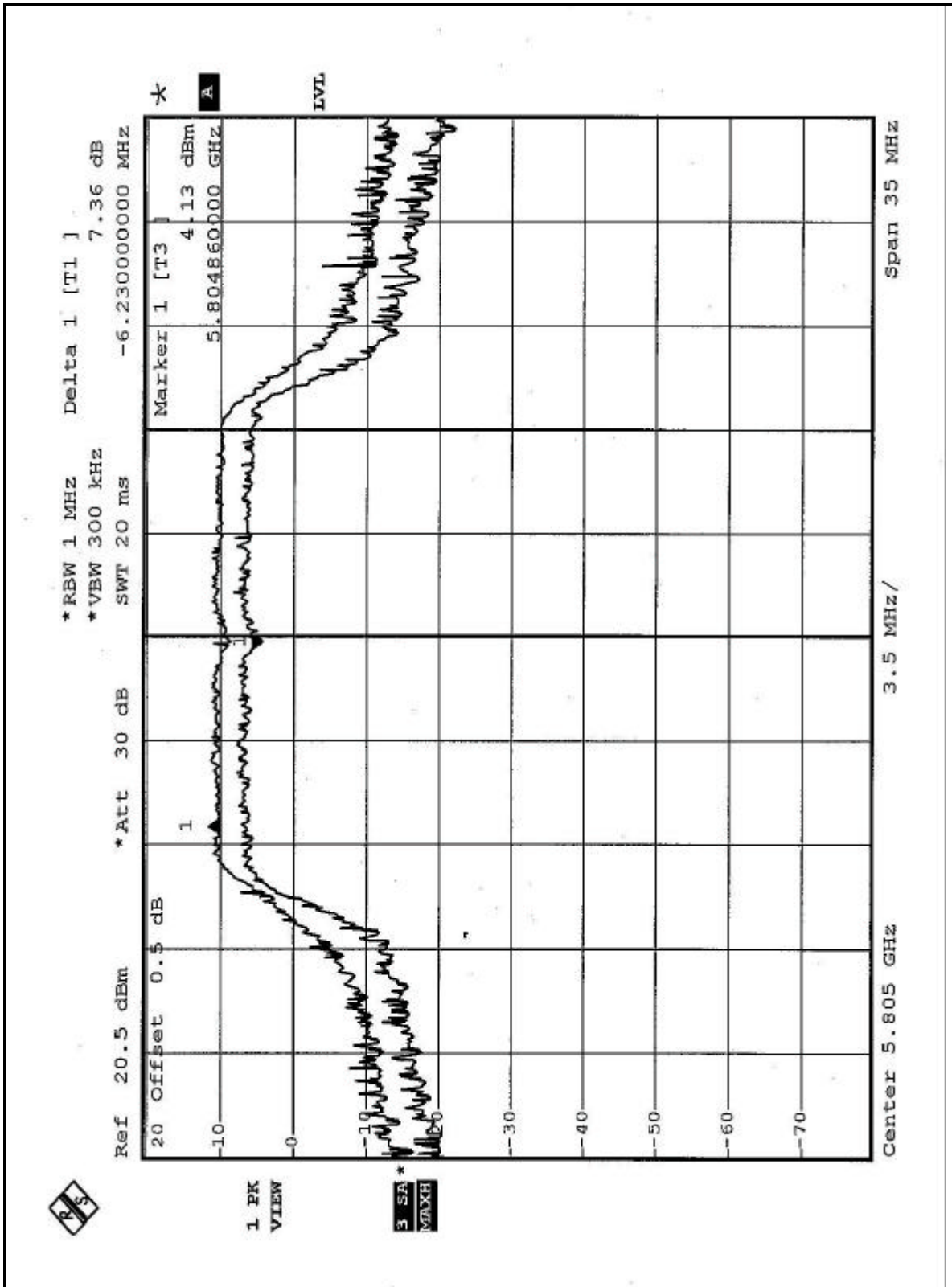
CH 8



CH 9



CH 12



5.5 PEAK POWER SPECTRAL DENSITY MEASUREMENT

5.5.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

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

5.5.2 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.

5.5.3 TEST PROCEDURES

1. The transmitter output was connected to the spectrum analyzer.
2. Set RBW=1MHz, VBW=3MHz. The PPSD is the highest level found across the emission in any 1MHz band.

5.5.4 DEVIATION FROM TEST STANDARD

No deviation

5.5.5 TEST SETUP



5.5.6 EUT OPERATING CONDITIONS

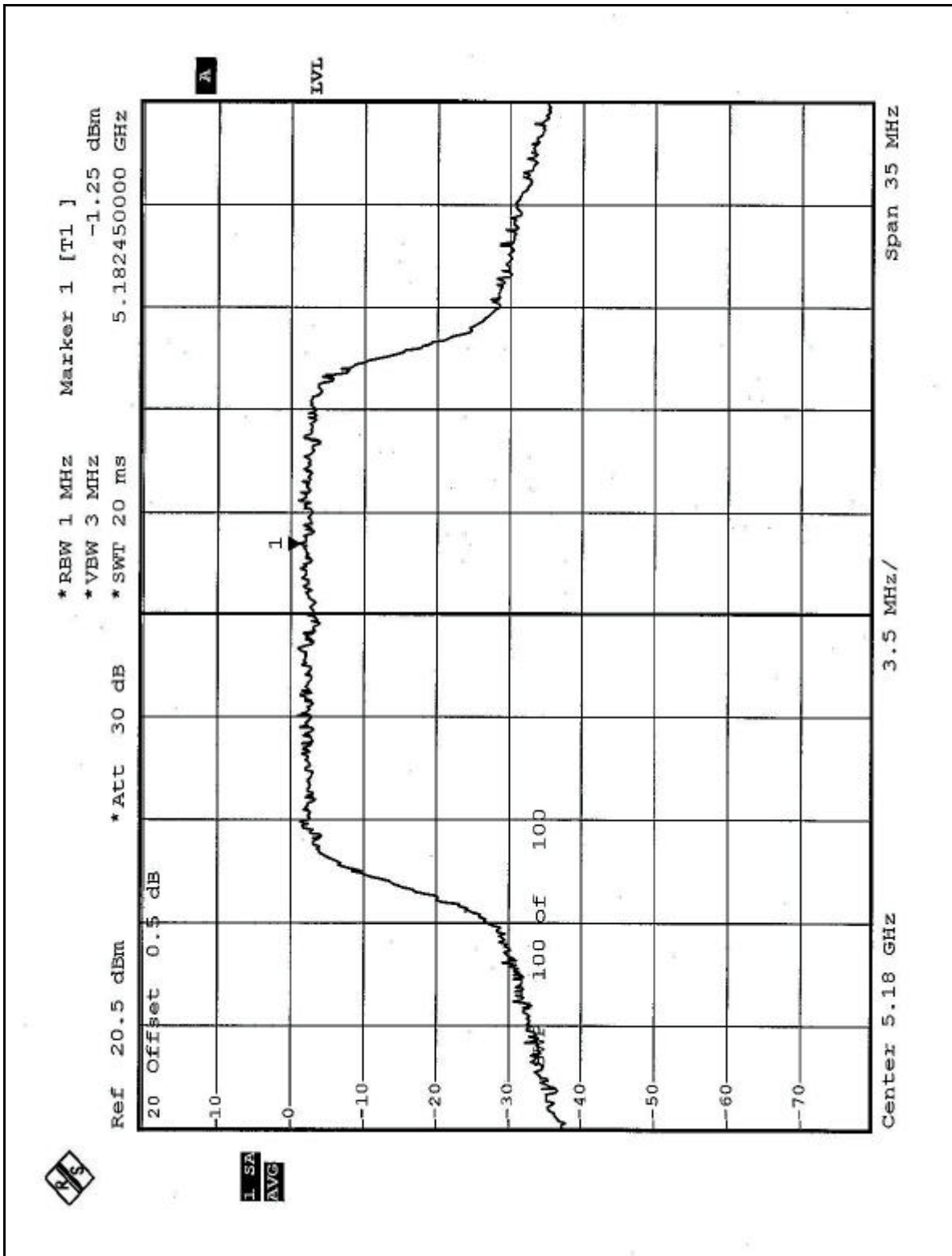
Same as 5.3.6

5.5.7 TEST RESULTS

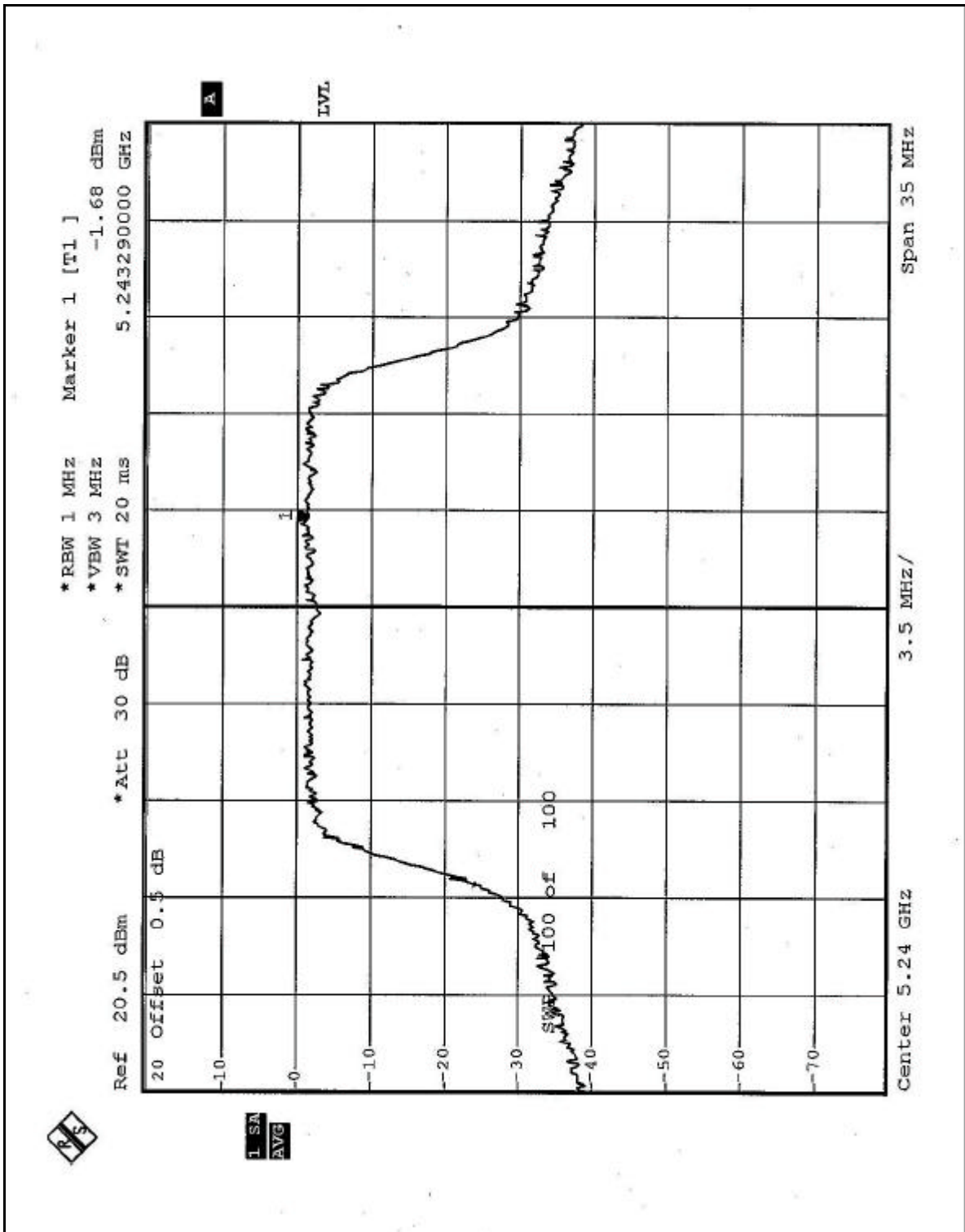
EUT	Mini- PCI CARD	MODEL	WLL4030
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Ansen Lei		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5180	-1.25	4	PASS
4	5240	-1.68	4	PASS
5	5260	-0.63	11	PASS
8	5320	-0.38	11	PASS
9	5745	0.76	17	PASS
12	5805	0.70	17	PASS

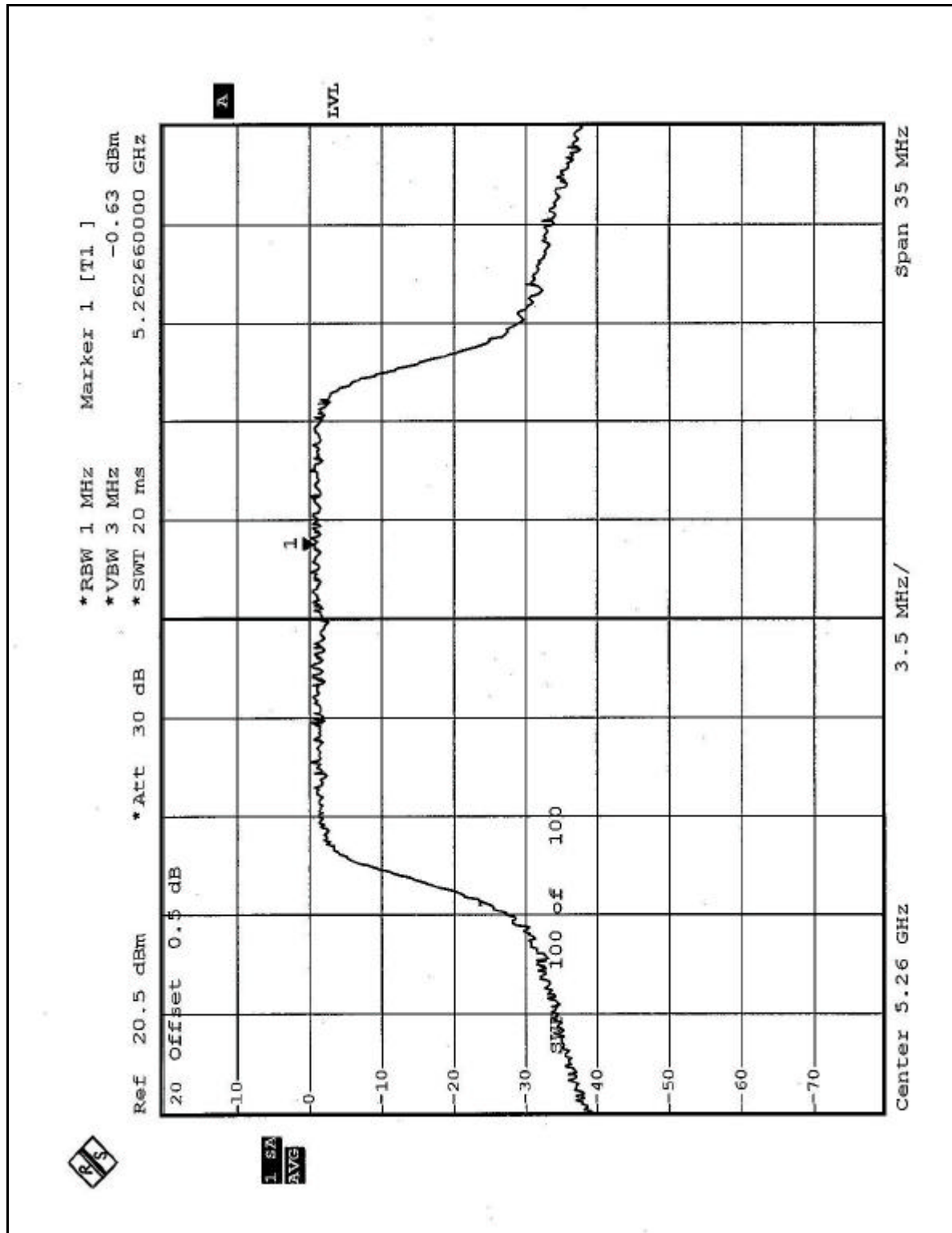
CH 1



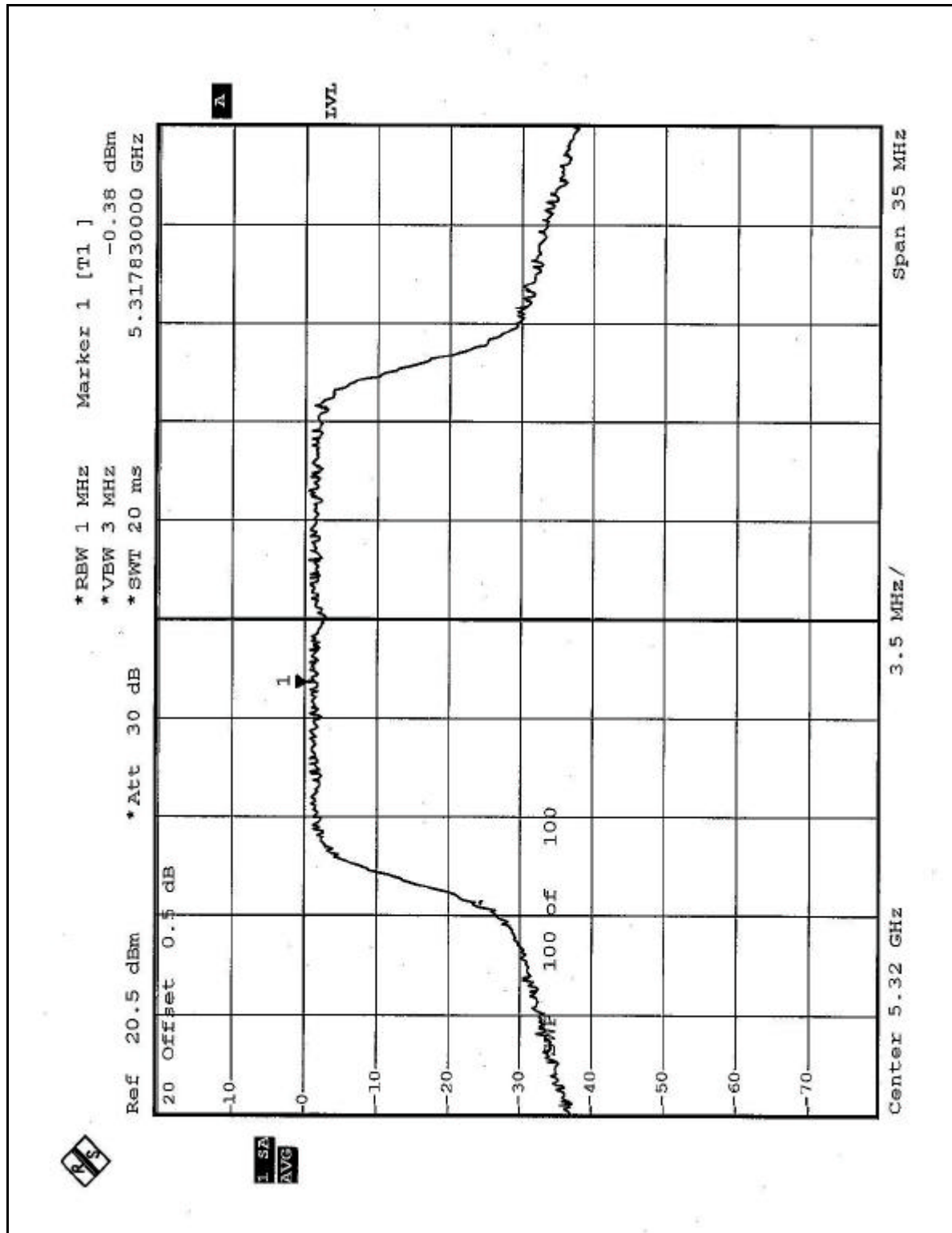
CH 4



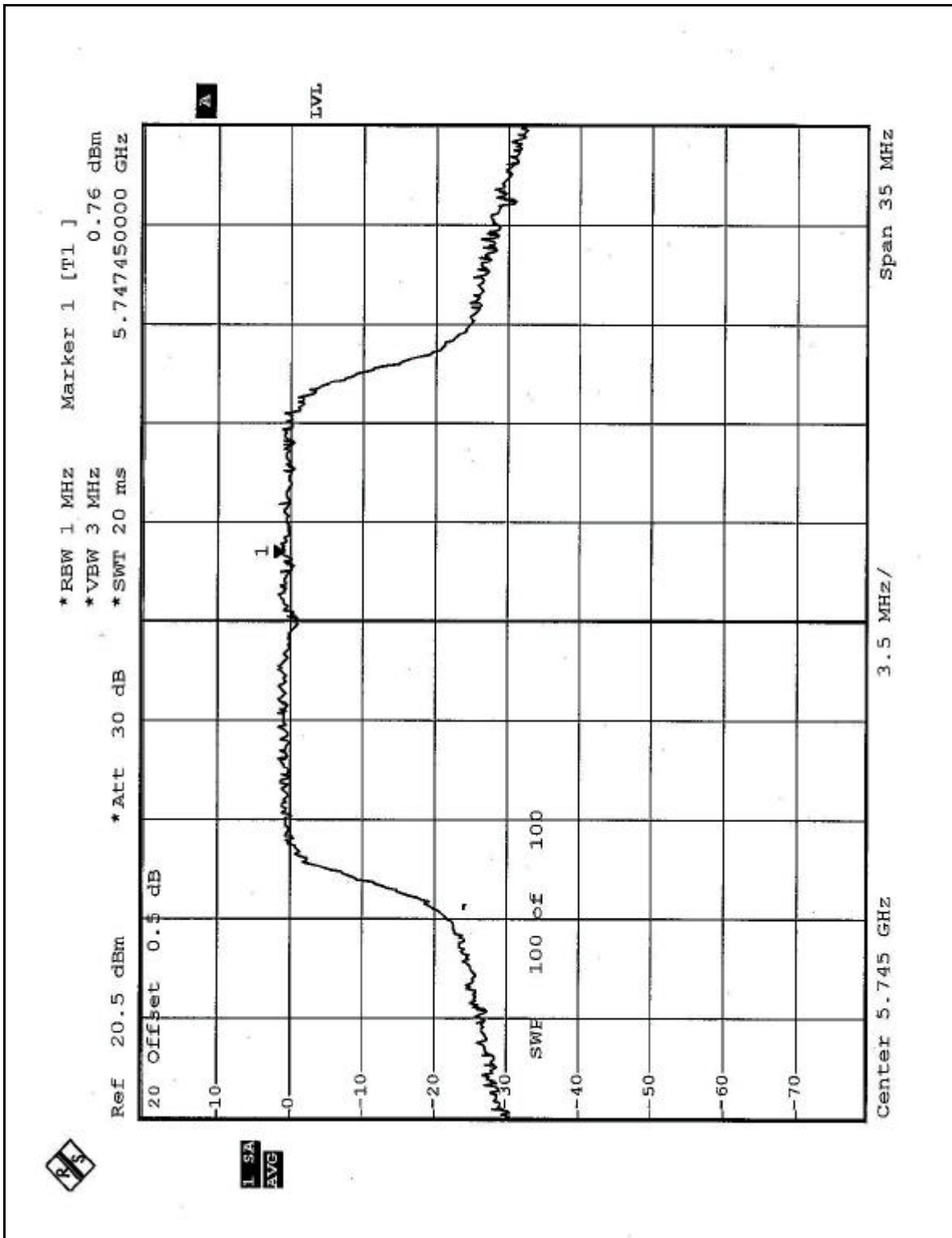
CH 5



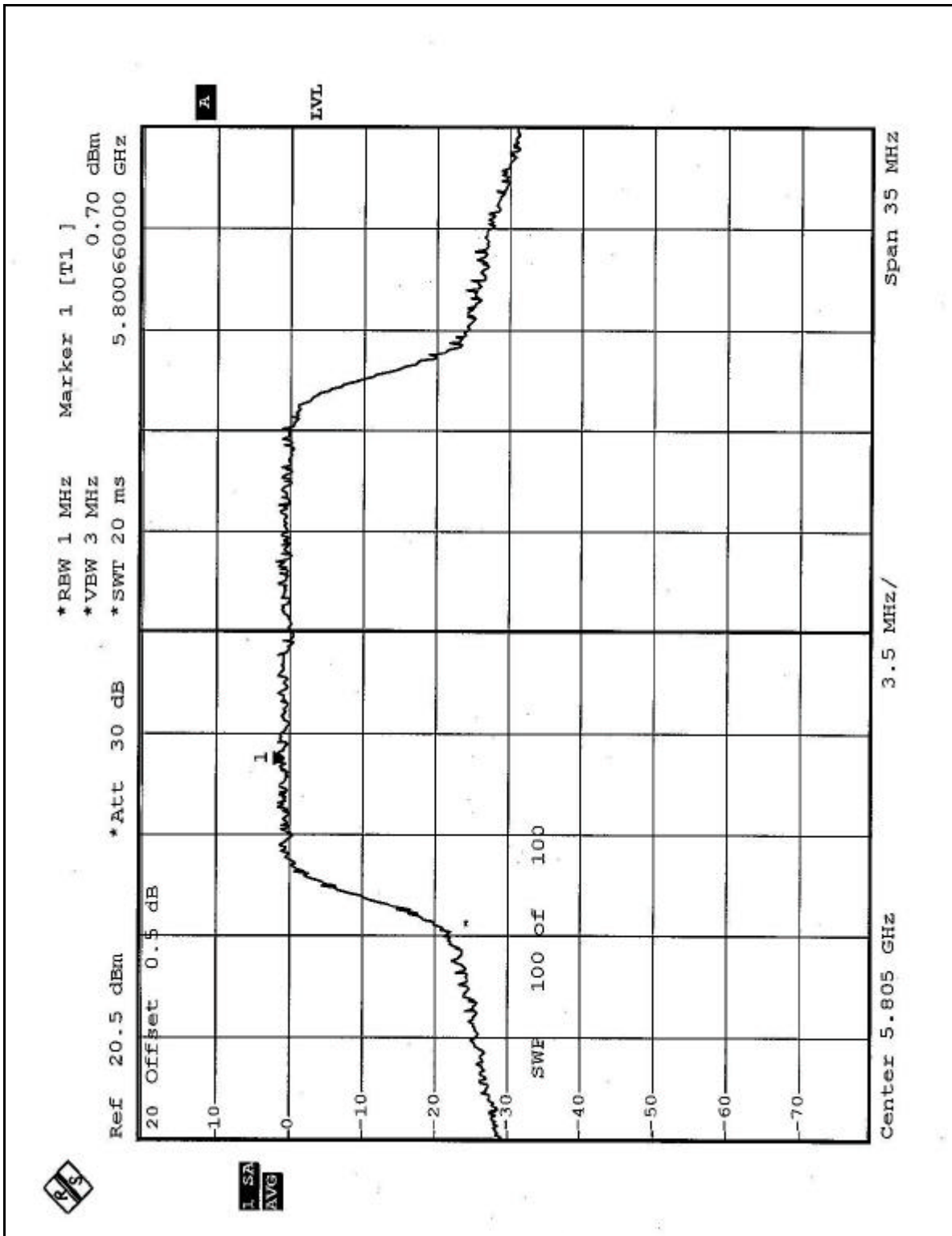
CH 8



CH 9



CH 12



5.6 FREQUENCY STABILITY

5.6.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency tolerance of the carrier signal shall be maintained within +/- 0.02% of the operating frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

5.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ANRITSU SPECTRUM ANALYZER	MS2667C	M10281	Feb. 09, 2005
WIT STANDARD TEMPERATURE AND HUMIDITY CHAMBER	TH-4S-C	W981030	Jul. 18, 2005

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

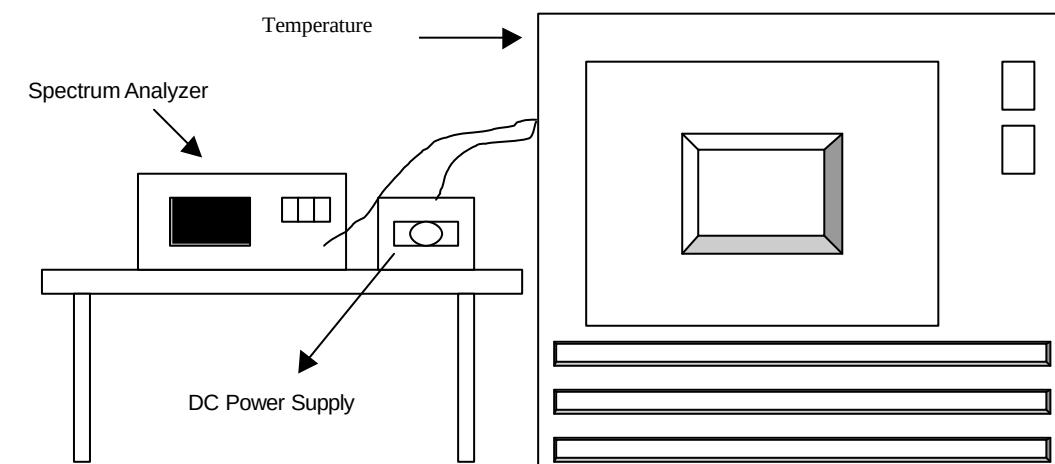
5.6.3 TEST PROCEDURE

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

5.6.4 DEVIATION FROM TEST STANDARD

No deviation

5.6.5 TEST SETUP



5.6.6 EUT OPERATING CONDITION

Same as Item 4.1.6

5.6.7 TEST RESULTS

Operating frequency: 5320MHz				Limit : $\pm 0.02\%$			
Temp. (°C)	Power supply (VDC)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	138	5320.0708	0.0013308	5320.0708	0.0013308	5320.0712	0.0013383
	120	5320.0708	0.0013308	5320.0708	0.0013308	5320.0712	0.0013383
	102	5320.0708	0.0013308	5320.0708	0.0013308	5320.0712	0.0013383
40	138	5320.0422	0.0007932	5320.0424	0.0007970	5320.0426	0.0008008
	120	5320.0422	0.0007932	5320.0424	0.0007970	5320.0426	0.0008008
	102	5320.0422	0.0007932	5320.0424	0.0007970	5320.0426	0.0008008
30	138	5320.0242	0.0004549	5320.0242	0.0004549	5320.0242	0.0004549
	120	5320.0242	0.0004549	5320.0242	0.0004549	5320.0242	0.0004549
	102	5320.0242	0.0004549	5320.0242	0.0004549	5320.0242	0.0004549
20	138	5320.0142	0.0002669	5320.0142	0.0002669	5320.0142	0.0002669
	120	5320.0142	0.0002669	5320.0142	0.0002669	5320.0142	0.0002669
	102	5320.0142	0.0002669	5320.0142	0.0002669	5320.0142	0.0002669
10	138	5320.0130	0.0002444	5320.0130	0.0002444	5320.0130	0.0002444
	120	5320.0130	0.0002444	5320.0130	0.0002444	5320.0130	0.0002444
	102	5320.0130	0.0002444	5320.0130	0.0002444	5320.0130	0.0002444
0	138	5320.0062	0.0001165	5320.0062	0.0001165	5320.0062	0.0001165
	120	5320.0062	0.0001165	5320.0062	0.0001165	5320.0062	0.0001165
	102	5320.0062	0.0001165	5320.0062	0.0001165	5320.0062	0.0001165
-10	138	5320.0070	0.0001316	5320.0070	0.0001316	5320.0070	0.0001316
	120	5320.0070	0.0001316	5320.0070	0.0001316	5320.0070	0.0001316
	102	5320.0070	0.0001316	5320.0070	0.0001316	5320.0070	0.0001316
-20	138	5320.0096	0.0001805	5320.0096	0.0001805	5320.0096	0.0001805
	120	5320.0096	0.0001805	5320.0096	0.0001805	5320.0096	0.0001805
	102	5320.0096	0.0001805	5320.0096	0.0001805	5320.0096	0.0001805
-30	138	5320.0108	0.0002030	5320.0108	0.0002030	5320.0108	0.0002030
	120	5320.0108	0.0002030	5320.0108	0.0002030	5320.0108	0.0002030
	102	5320.0108	0.0002030	5320.0108	0.0002030	5320.0108	0.0002030

*(The test data is in accordance with ADT Report No.: RF920624R02.)