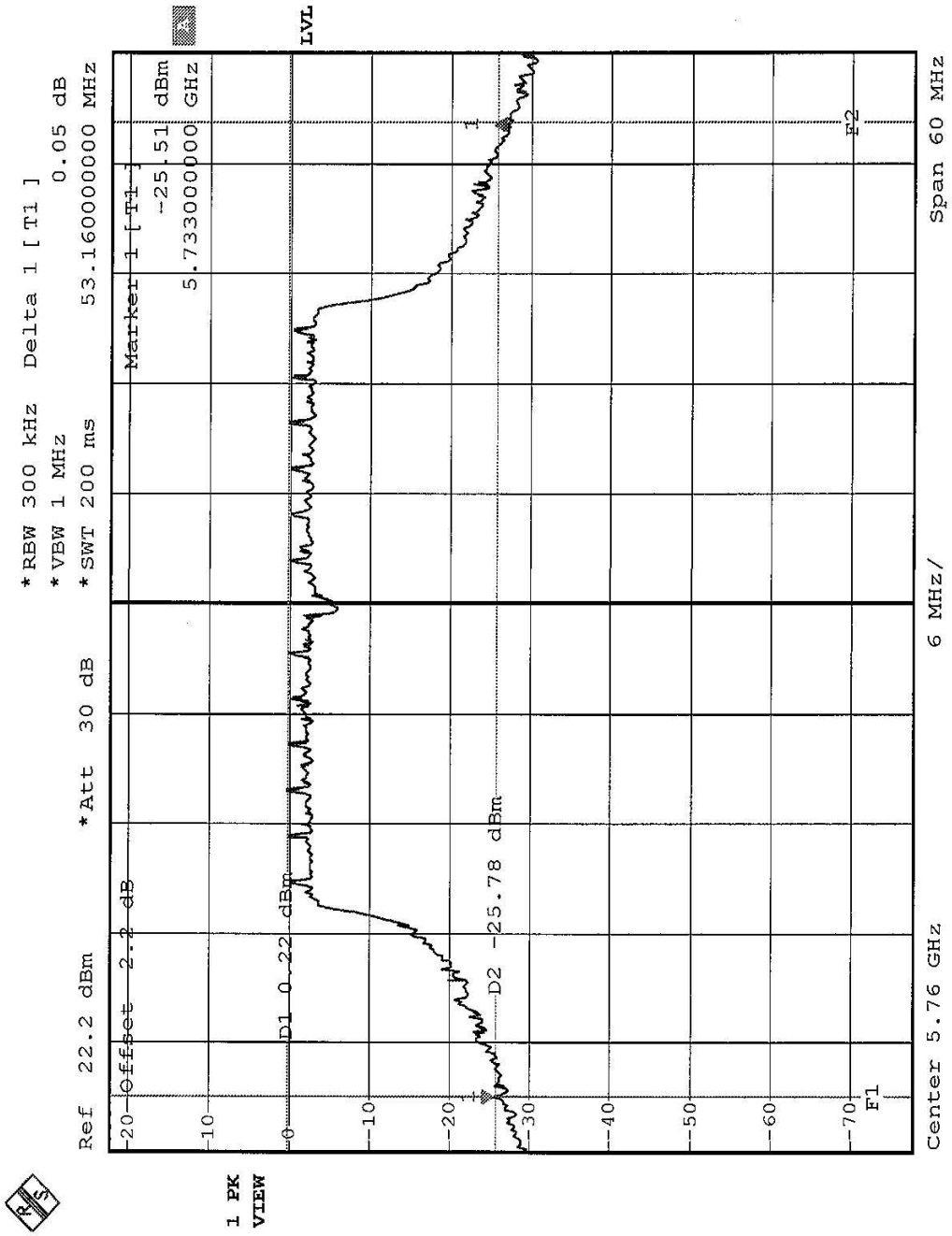
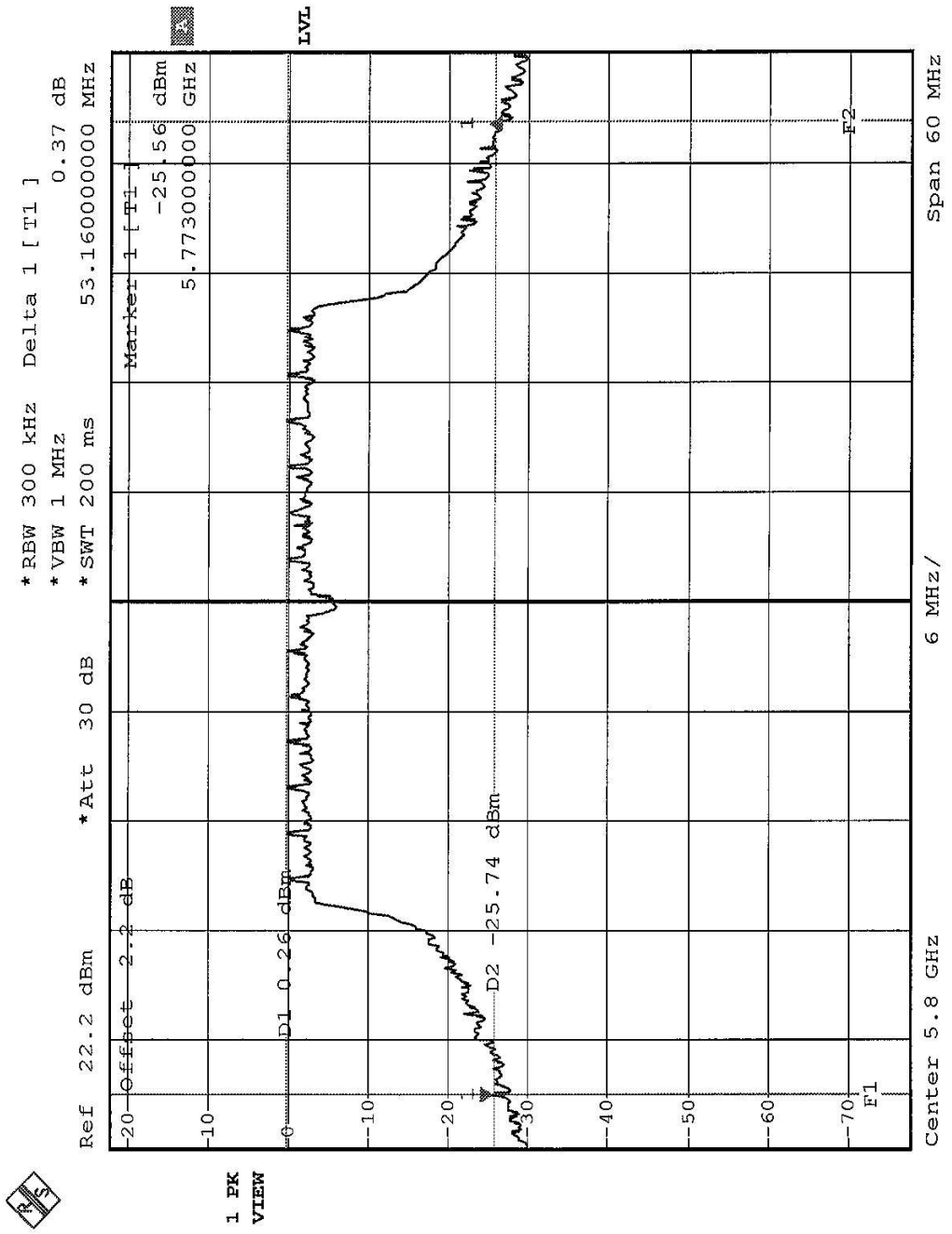
CHANNEL 4


RBW 300 kHz
VBW 1 MHz
SWT 200 ms
Delta 1 [T1]
0.05 dB
53.160000000 MHz
Marker 1 [T1]
-25.51 dBm
5.733000000 GHz
Ref 22.2 dBm
Offset 2.2 dB
Att 30 dB
D1 0.22 dBm
D2 -25.78 dBm
Center 5.76 GHz
6 MHz/
Span 60 MHz
1 PK
VIEW
LVL

CHANNEL 5


RBW 300 kHz
VBW 1 MHz
SWT 200 ms
Delta 1 [T1]
0.37 dB
53.160000000 MHz
Marker 1 [T1]
-25.56 dBm
5.773000000 GHz
Ref 22.2 dBm
Offset 2.2 dB
Att 30 dB
D1 0.26 dBm
D2 -25.74 dBm
Center 5.8 GHz
6 MHz/
Span 60 MHz
1 PK
VIEW

4.4 PEAK POWER EXCURSION MEASUREMENT

4.4.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

Frequency Band	Limit
5.15 – 5.25 GHz	13dB
5.25 – 5.35 GHz	13dB
5.725 – 5.825 GHz	13dB

4.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE&SCHWARZ SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

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.

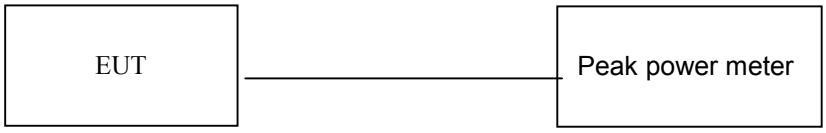
4.4.3 TEST PROCEDURE

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 and 2 with proper resolution bandwidth setting.
4. The largest difference between Trace 1 and Trace 2 in any 1MHz band on any frequency was recorded.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

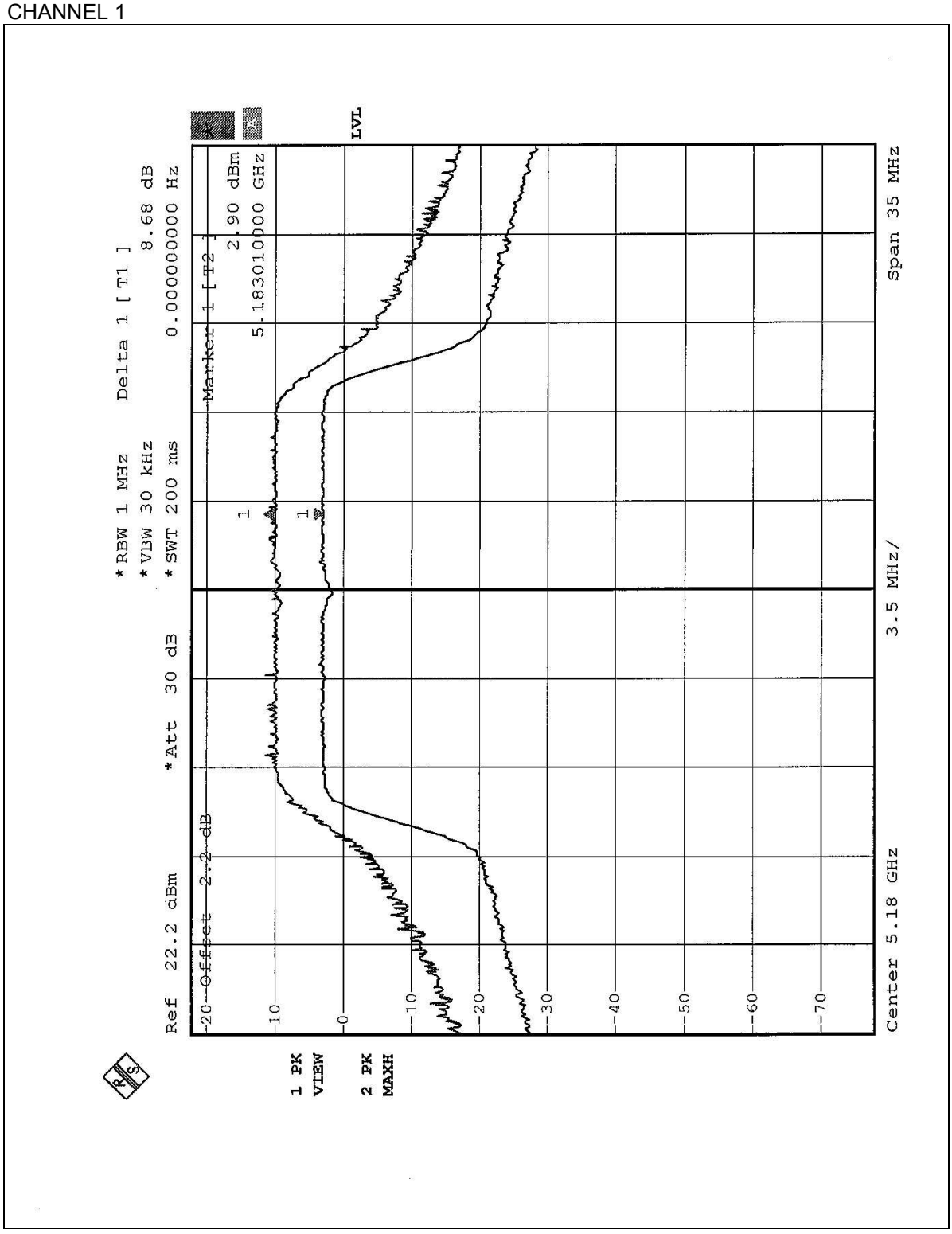
The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

4.4.7 TEST RESULTS

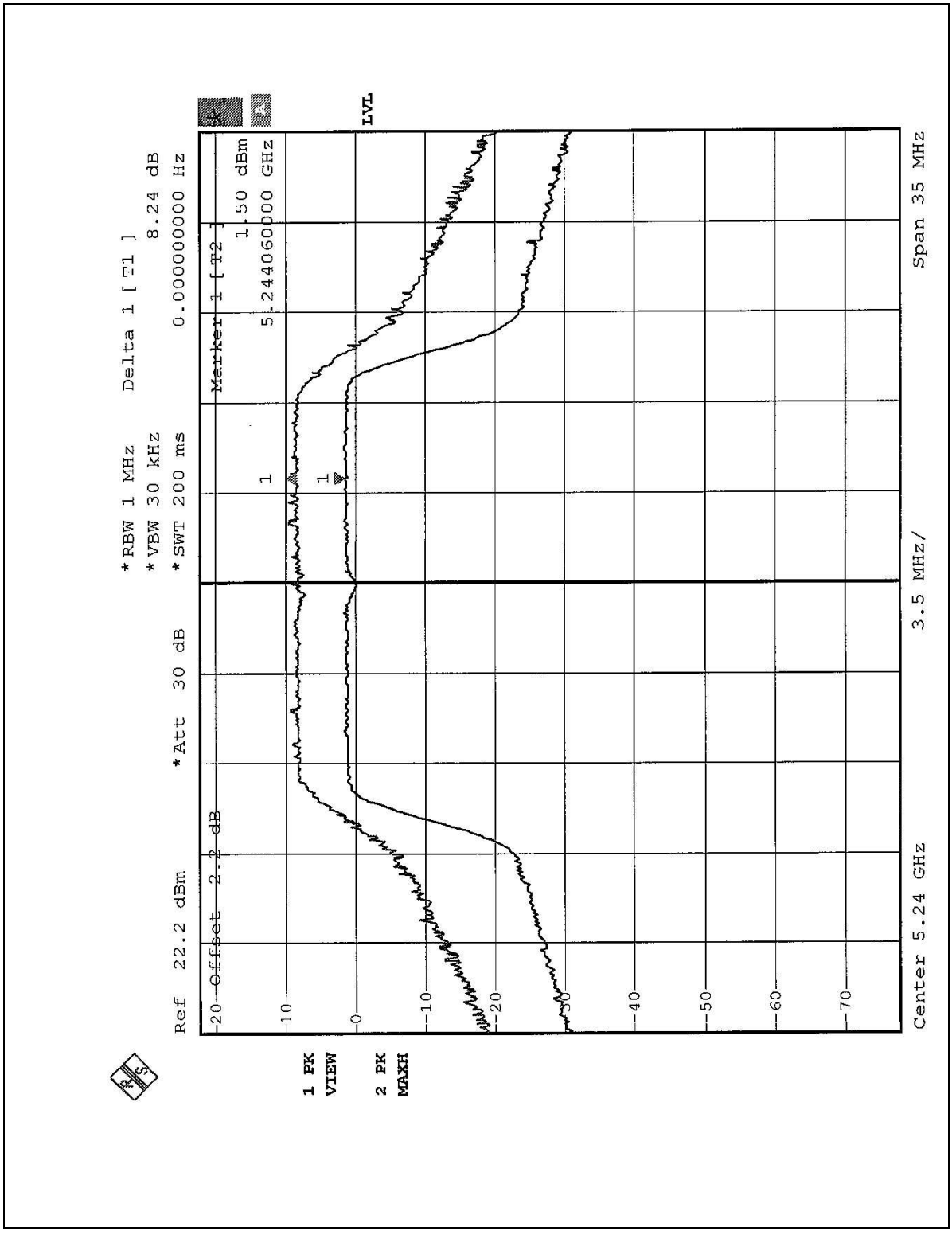
EUT	Wireless 54Mbps MiniPCI Card	**MODEL**	GL5054MP-AA0
MODE	Normal	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	29 deg. C, 54%RH, 1005 hPa	**TESTED BY**	Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
1	5180	8.68	13	PASS
4	5240	8.24	13	PASS
5	5260	8.01	13	PASS
8	5320	8.35	13	PASS
9	5745	8.19	13	PASS
12	5805	8.43	13	PASS

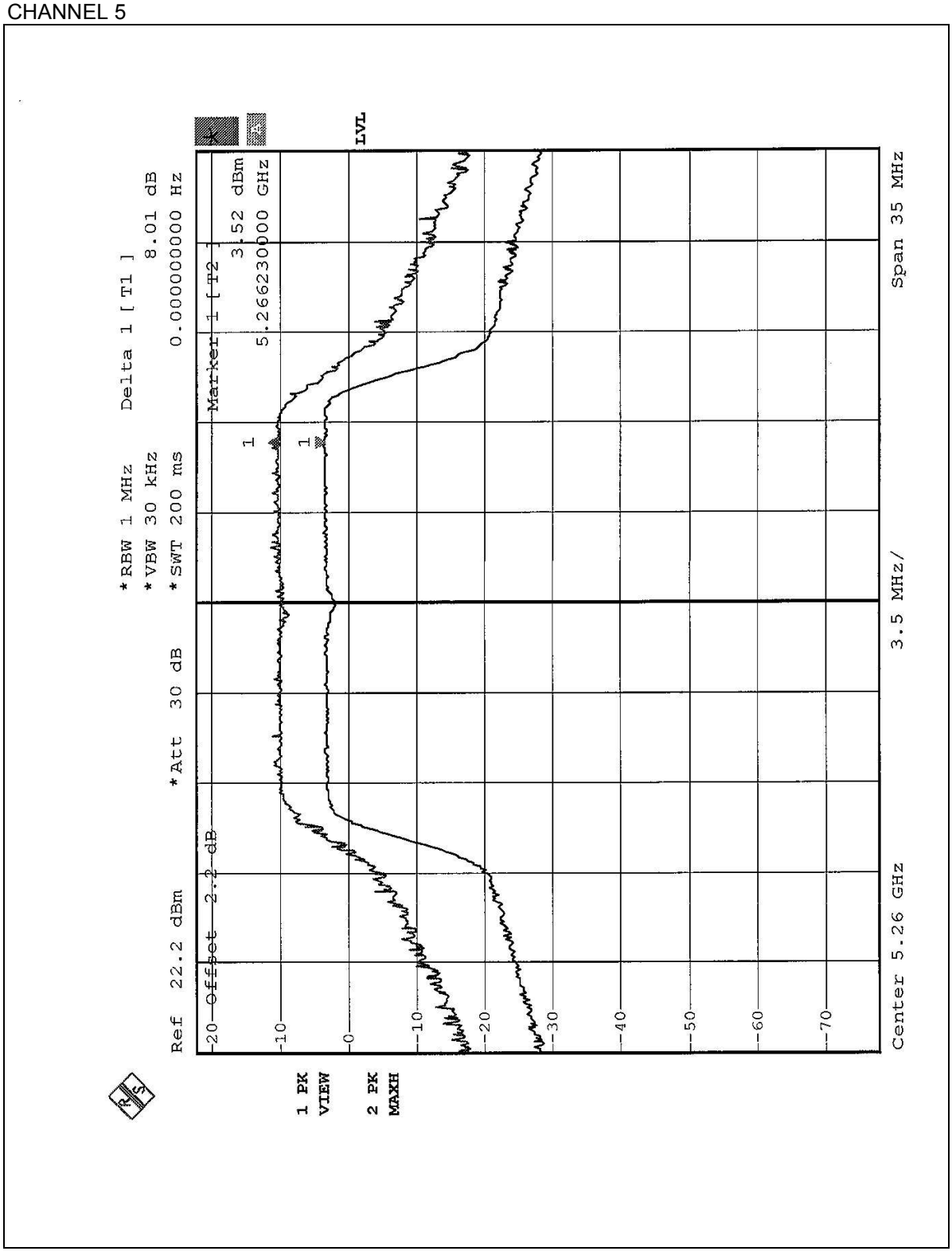
CHANNEL 1


Ref 22.2 dBm
Offset 2.2 dB
*Att 30 dB
*RBW 1 MHz
*VBW 30 kHz
*SWT 200 ms
Delta 1 [T1]
8.68 dB
0.000000000 Hz
Marker 1 [T2]
2.90 dBm
5.183010000 GHz
LVL
Center 5.18 GHz
3.5 MHz/
Span 35 MHz
1 PK VIEW
2 PK MAXH

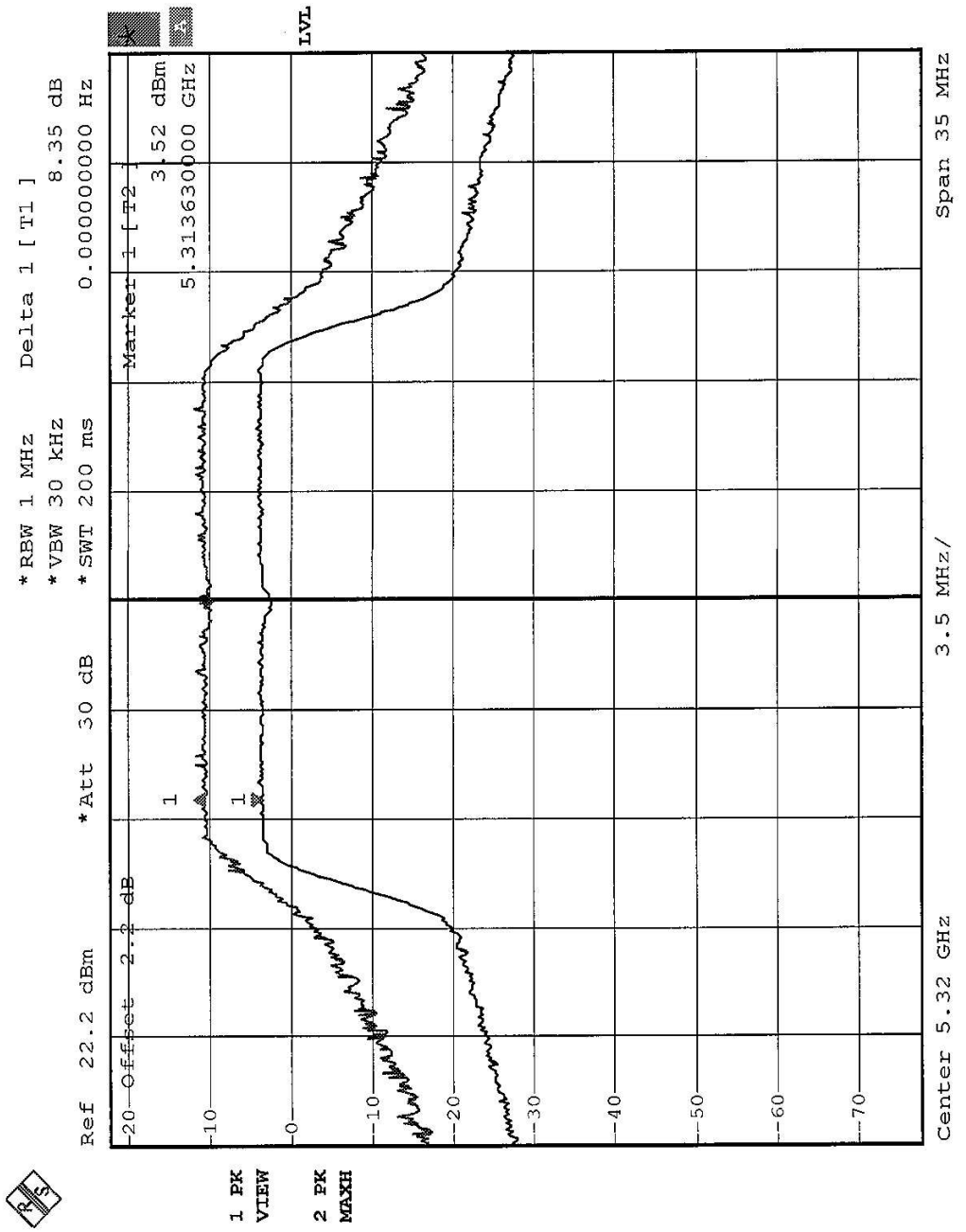
CHANNEL 4


Ref 22.2 dBm
Offset 2.2 dB
*Att 30 dB
*RBW 1 MHz
*VBW 30 kHz
*SWT 200 ms
Delta 1 [T1]
8.24 dB
0.000000000 Hz
Marker 1 [T2]
1.50 dBm
5.244060000 GHz
LVL
Center 5.24 GHz
3.5 MHz/
Span 35 MHz
1 PK VIEW
2 PK MAXH

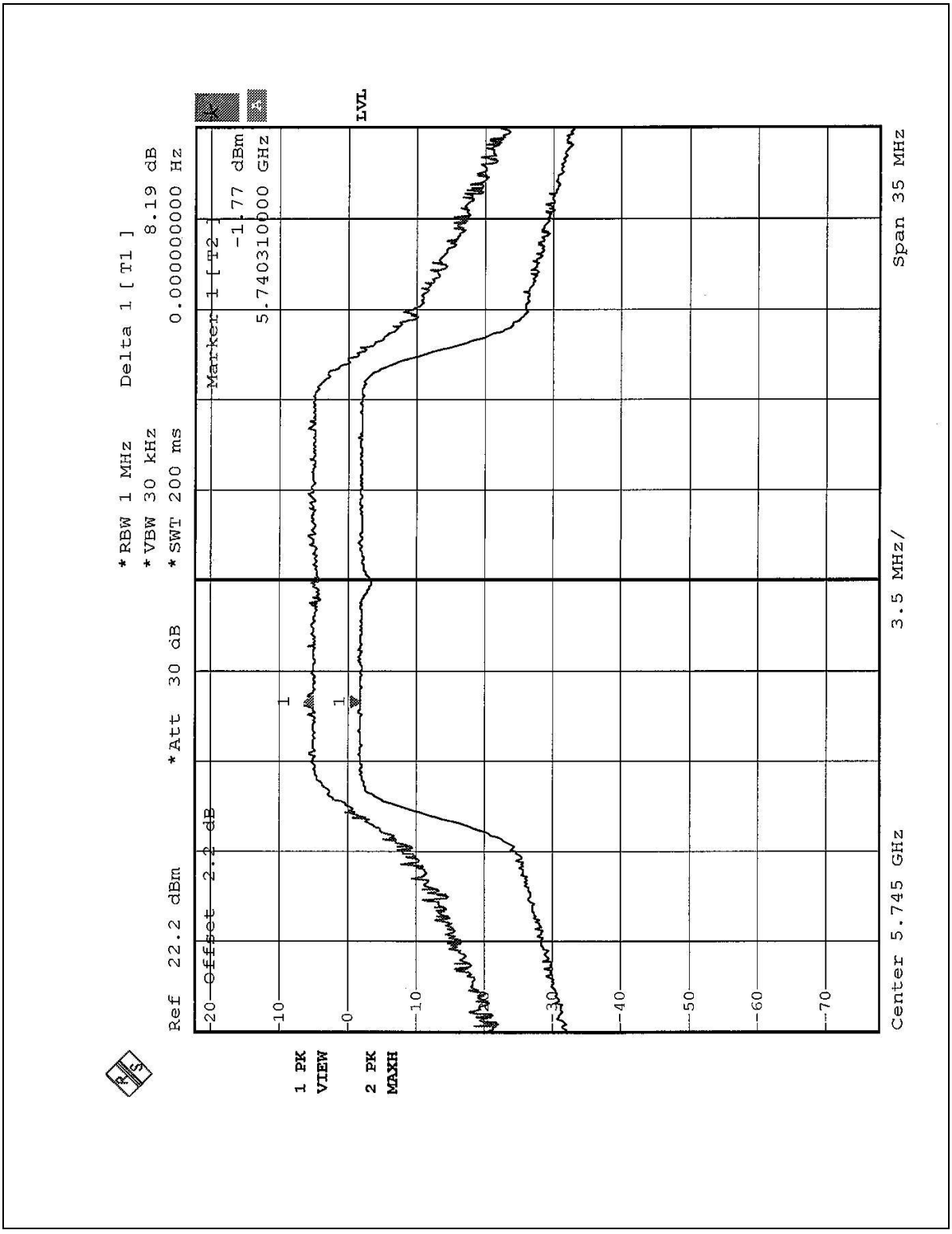
CHANNEL 5


RBW 1 MHz
VBW 30 kHz
SWT 200 ms
Delta 1 [T1]
8.01 dB
0.000000000 Hz
Marker 1 [T2]
3.52 dBm
5.266230000 GHz
Ref 22.2 dBm
Offset 2.2 dB
Att 30 dB
LVL
Span 35 MHz
3.5 MHz/
Center 5.26 GHz
1 PK VIEW
2 PK MAXH

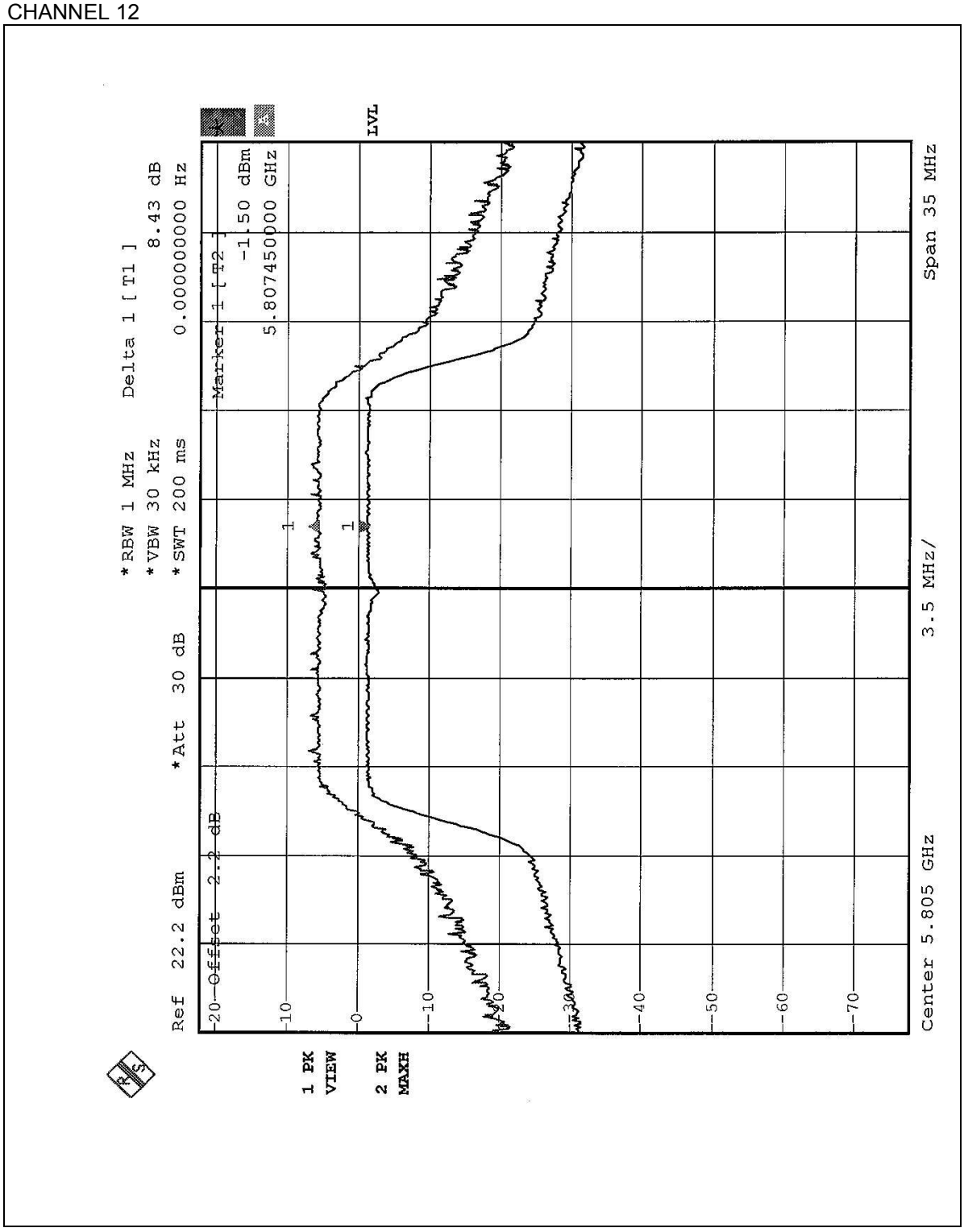
CHANNEL 8


Ref 22.2 dBm
Offset 2.2 dB
*Att 30 dB
*RBW 1 MHz
*VBW 30 kHz
*SWT 200 ms
Delta 1 [T1]
8.35 dB
0.000000000 Hz
Marker 1 [T2]
3.52 dBm
5.313630000 GHz
LVL
Span 35 MHz
3.5 MHz/
Center 5.32 GHz
1 PK VIEW
2 PK MAXH

CHANNEL 9


RBW 1 MHz
VBW 30 kHz
SWT 200 ms
Delta 1 [T1]
8.19 dB
0.000000000 Hz
Marker 1 [T2]
-1.77 dBm
5.740310000 GHz
Ref 22.2 dBm
Offset 2.2 dB
Att 30 dB
LVL
Span 35 MHz
3.5 MHz/
Center 5.745 GHz
1 PK VIEW
2 PK MAXH

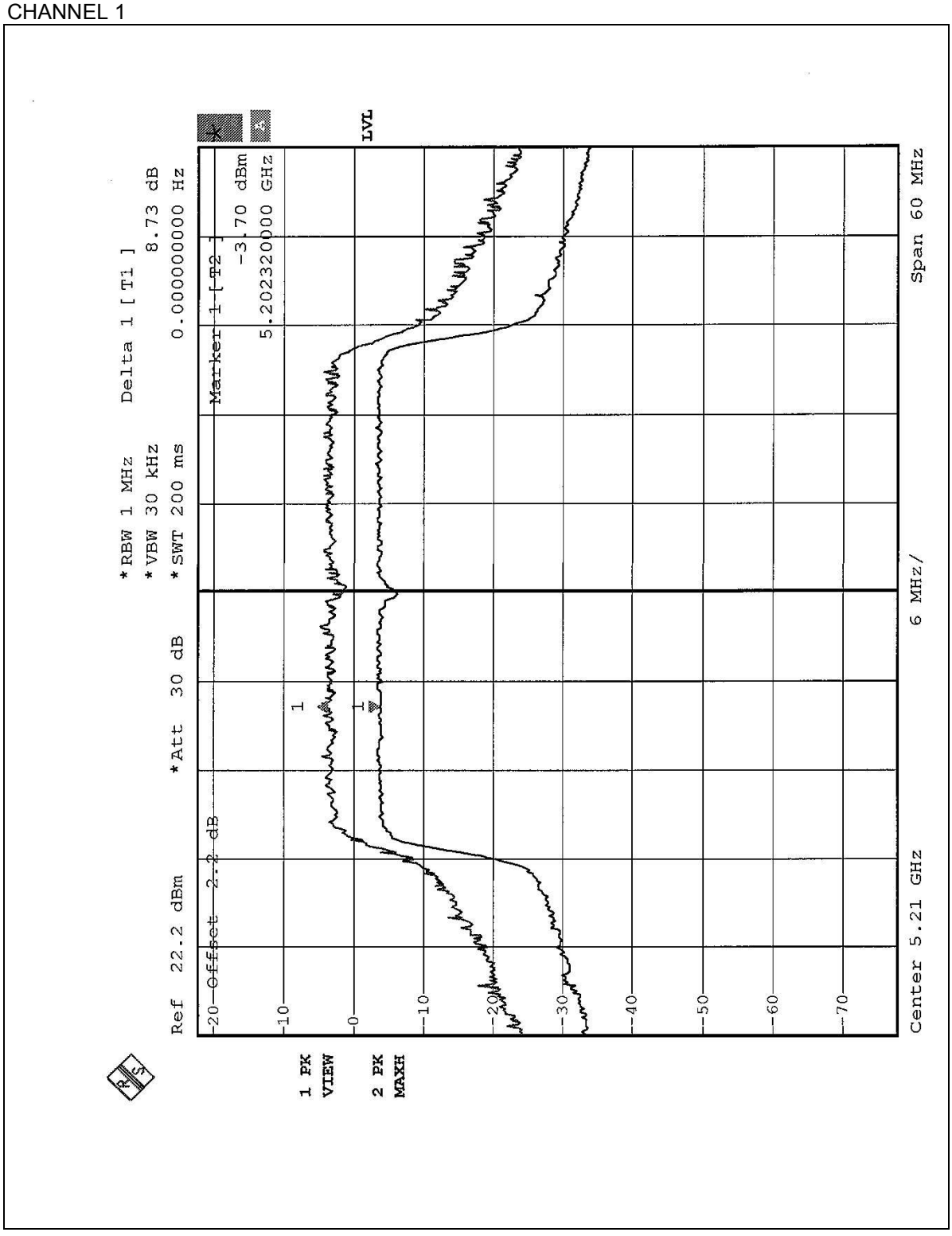
CHANNEL 12


*RBW 1 MHz
*VBW 30 kHz
*SWT 200 ms
Delta 1 [T1]
8.43 dB
0.000000000 Hz
Marker 1 [T2]
-1.50 dBm
5.807450000 GHz
Ref 22.2 dBm
Offset 2.2 dB
*Att 30 dB
LVL
Center 5.805 GHz
3.5 MHz/
Span 35 MHz
1 PK VIEW
2 PK MAXH

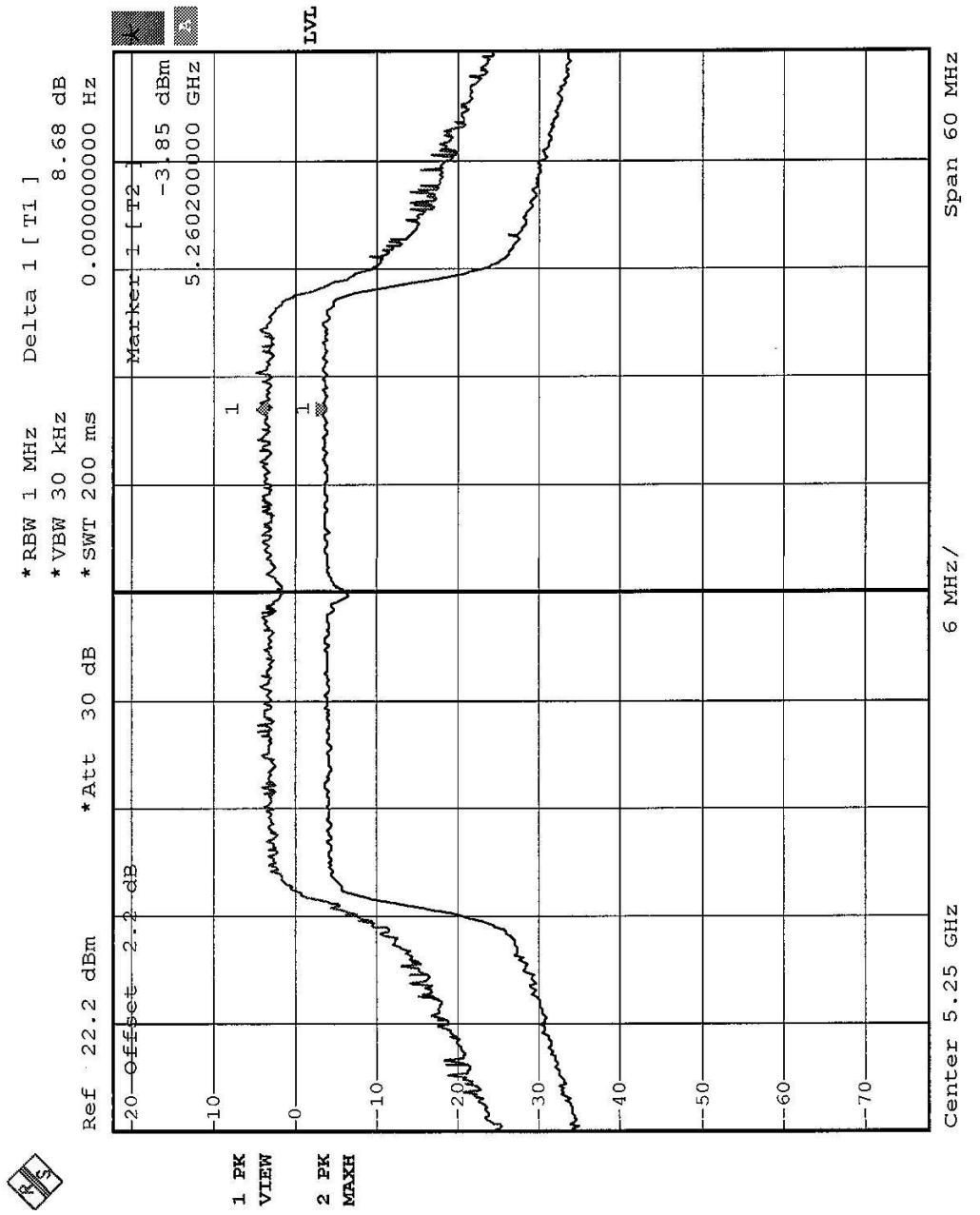
EUT	Wireless 54Mbps MiniPCI Card	**MODEL**	GL5054MP-AA0
MODE	Turbo	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	29 deg. C, 54%RH, 1005 hPa	**TESTED BY**	Steven Lu

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dBm)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
1	5210	8.73	13	PASS
2	5250	8.68	13	PASS
3	5290	8.49	13	PASS
4	5760	8.50	13	PASS
5	5800	8.56	13	PASS

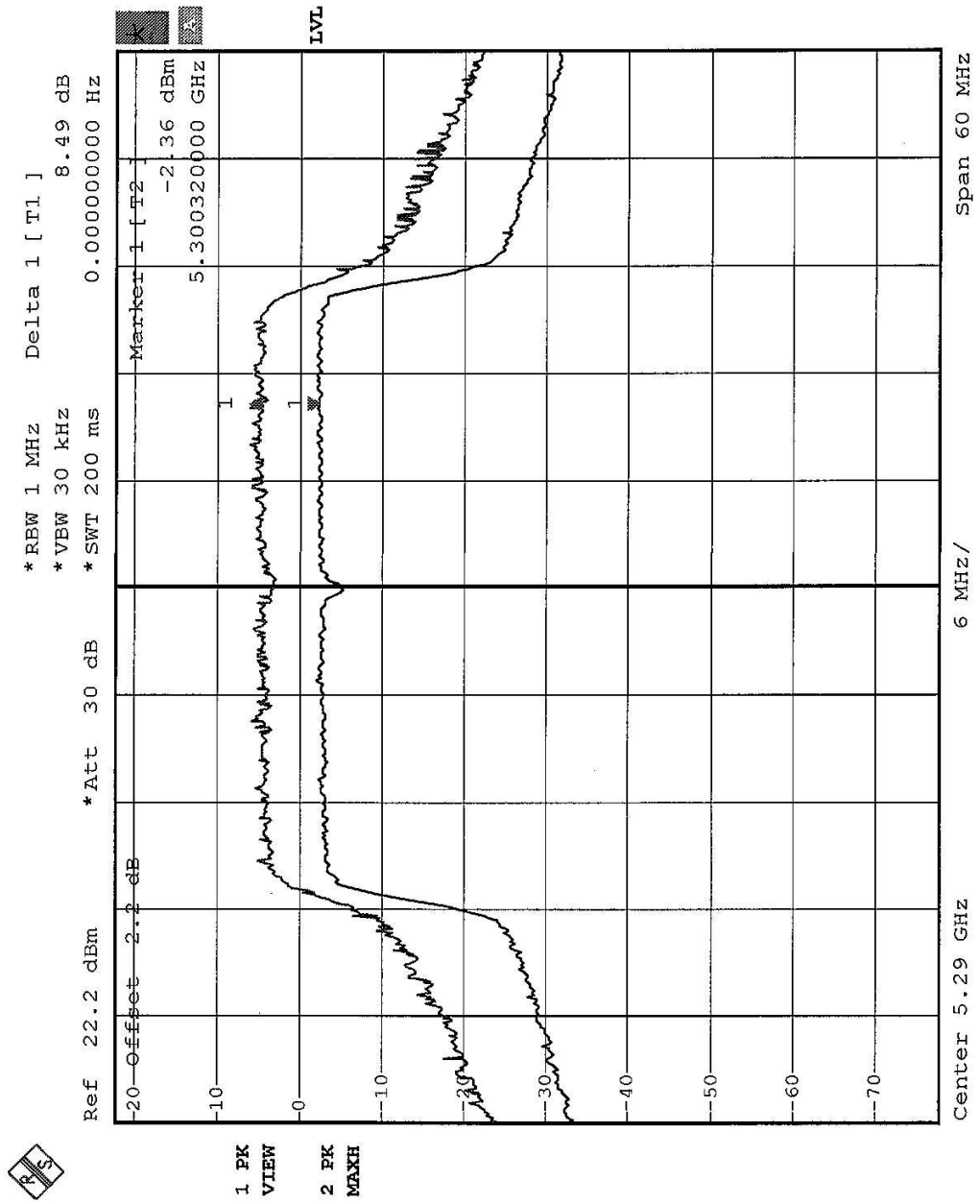
CHANNEL 1


Ref 22.2 dBm
Offset 2.2 dB
*Att 30 dB
*RBW 1 MHz
*VBW 30 kHz
*SWT 200 ms
Delta 1 [T1]
8.73 dB
0.000000000 Hz
Marker 1 [T2]
-3.70 dBm
5.202320000 GHz
LVL
Center 5.21 GHz
6 MHz/
Span 60 MHz
1 PK VIEW
2 PK MAXH

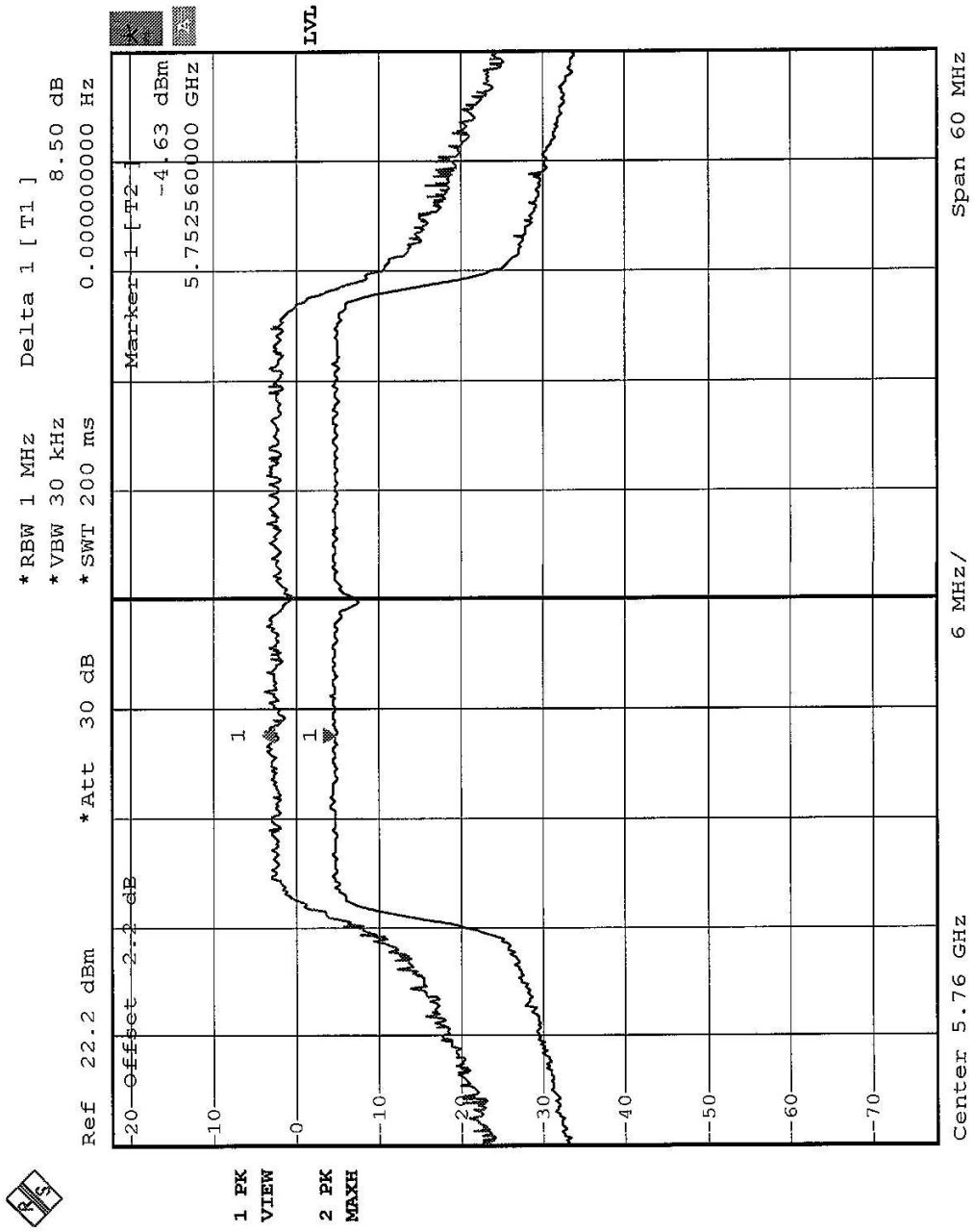
CHANNEL 2


Ref 22.2 dBm
Offset 2.2 dB
*Att 30 dB
*RBW 1 MHz
*VBW 30 kHz
*SWT 200 ms
Delta 1 [T1]
8.68 dB
0.000000000 Hz
Marker 1 [T2]
-3.85 dBm
5.260200000 GHz
LVL
Center 5.25 GHz
6 MHz/
Span 60 MHz
1 PK VIEW
2 PK MAXH

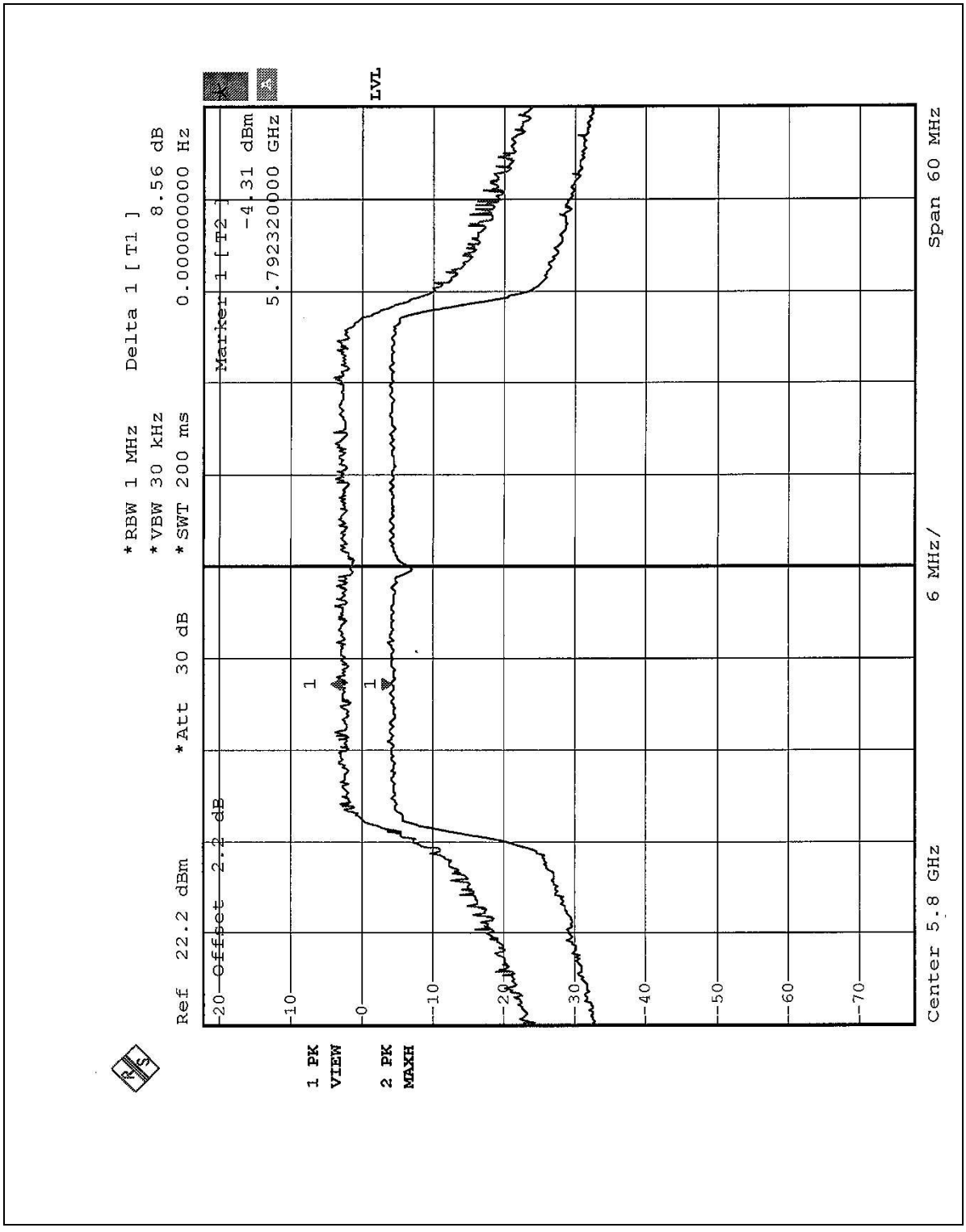
CHANNEL 3


Ref 22.2 dBm
Offset 2.2 dB
*Att 30 dB
*RBW 1 MHz
*VBW 30 kHz
*SWT 200 ms
Delta 1 [T1]
8.49 dB
0.000000000 Hz
Marker 1 [T2]
-2.36 dBm
5.300320000 GHz
LVL
Center 5.29 GHz
6 MHz/
Span 60 MHz
1 PK VIEW
2 PK MAXH

CHANNEL 4


Ref 22.2 dBm
Offset 2.2 dB
*Att 30 dB
*RBW 1 MHz
*VBW 30 kHz
*SWT 200 ms
Delta 1 [T1]
8.50 dB
0.000000000 Hz
Marker 1 [T2]
-4.63 dBm
5.752560000 GHz
LVL
Center 5.76 GHz
6 MHz/
Span 60 MHz
1 PK
VIEW
2 PK
MAXH

CHANNEL 5


Ref 22.2 dBm
Offset 2.2 dB
*Att 30 dB
*SWT 200 ms
*VBW 30 kHz
*RBW 1 MHz
Delta 1 [T1]
8.56 dB
0.000000000 Hz
Marker 1 [T2]
-4.31 dBm
5.792320000 GHz
LVL
Center 5.8 GHz
6 MHz/
Span 60 MHz
1 PK
VIEW
2 PK
MAXH

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	4dBm
5.25 – 5.35 GHz	11dBm
5.725 – 5.825 GHz	17dBm

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE&SCHWARZ SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

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.

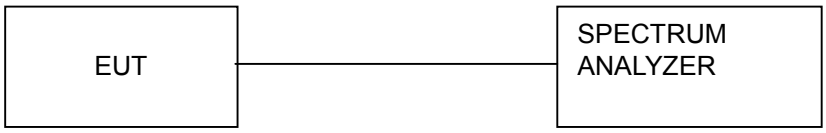
4.5.3 TEST PROCEDURES

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

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

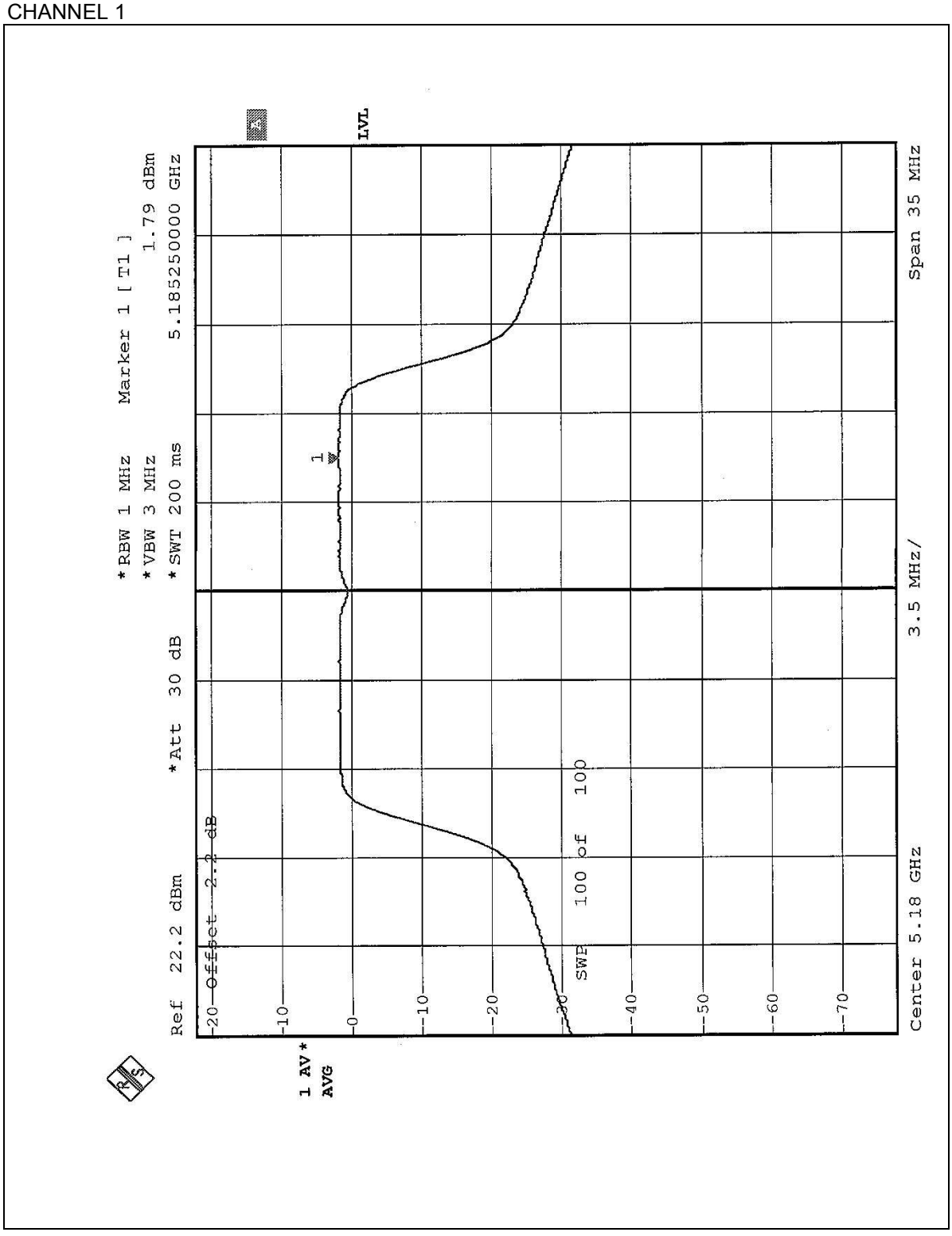
Same as 4.3.5

4.5.7 TEST RESULTS

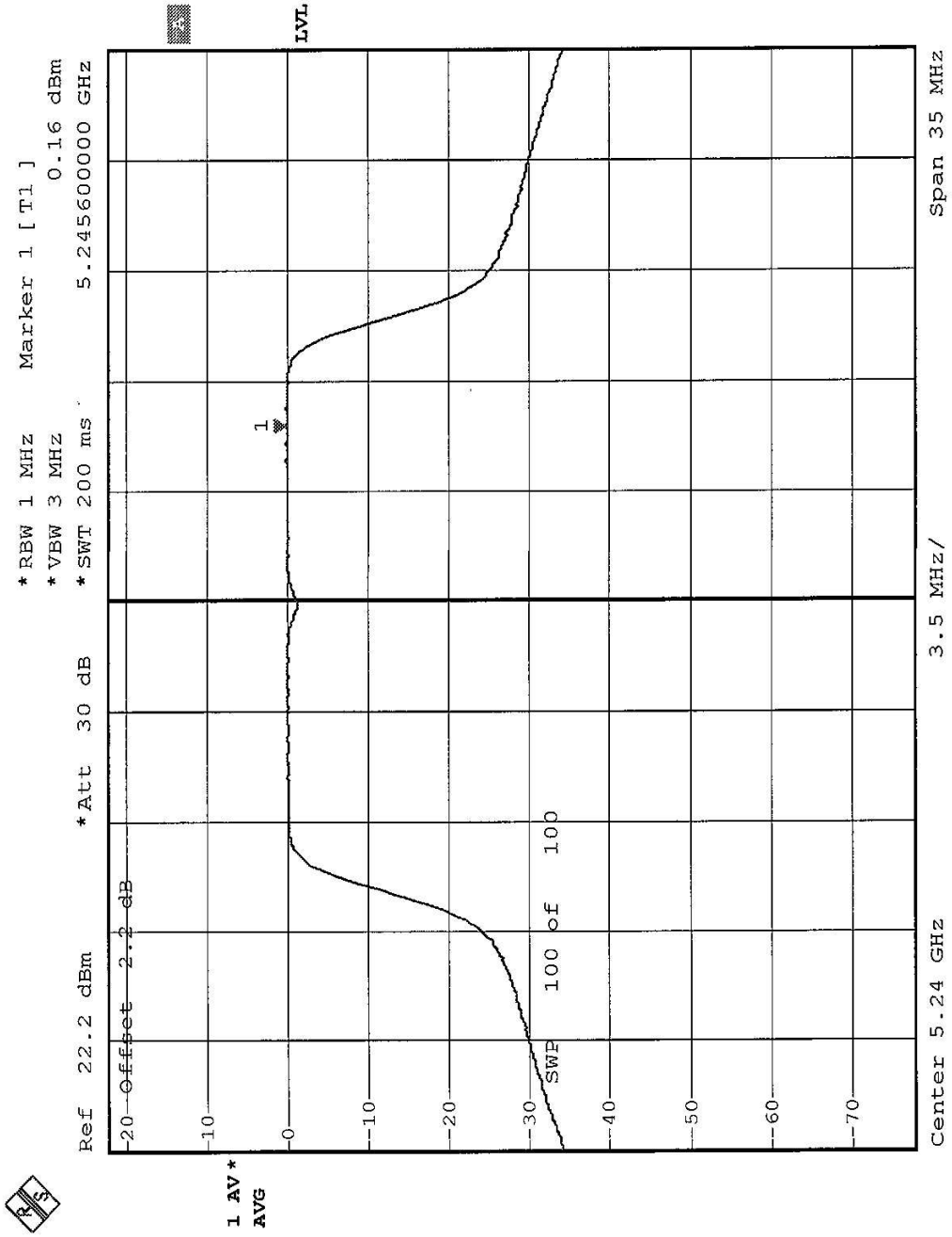
EUT	Wireless 54Mbps MiniPCI Card	**MODEL**	GL5054MP-AA0
MODE	Normal	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	29 deg. C, 54%RH, 1005 hPa	**TESTED BY**	Steven Lu

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1 MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5180	1.79	4	PASS
4	5240	0.16	4	PASS
5	5260	1.98	11	PASS
8	5320	2.11	11	PASS
9	5745	-2.91	17	PASS
12	5805	-2.57	17	PASS

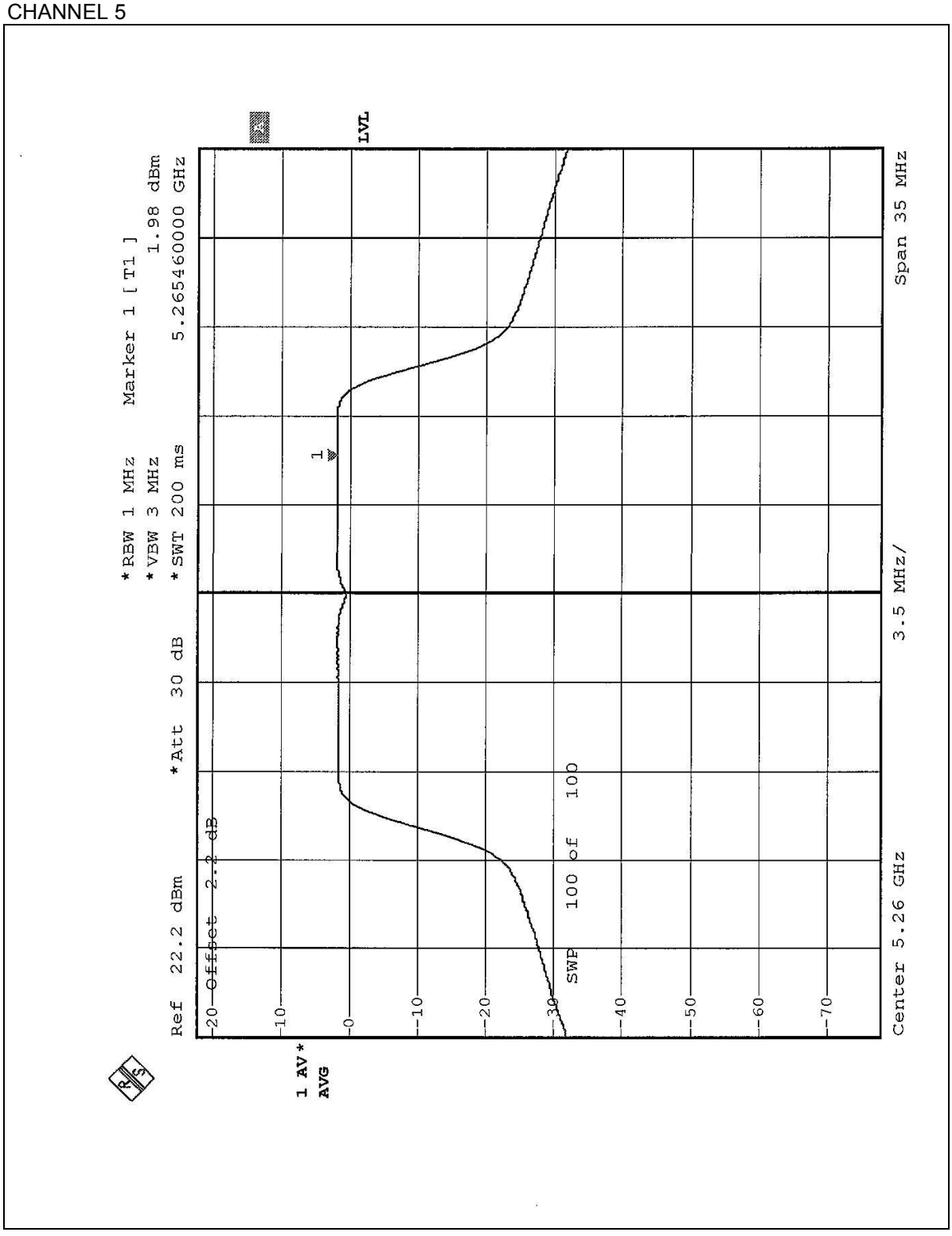
CHANNEL 1


Ref 22.2 dBm
Offset 2.2 dB
*Att 30 dB
*RBW 1 MHz
*VBW 3 MHz
*SWT 200 ms
Marker 1 [T1]
1.79 dBm
5.185250000 GHz
1 AV*
AVG
SWP 100 of 100
Center 5.18 GHz
3.5 MHz/
Span 35 MHz
LVL

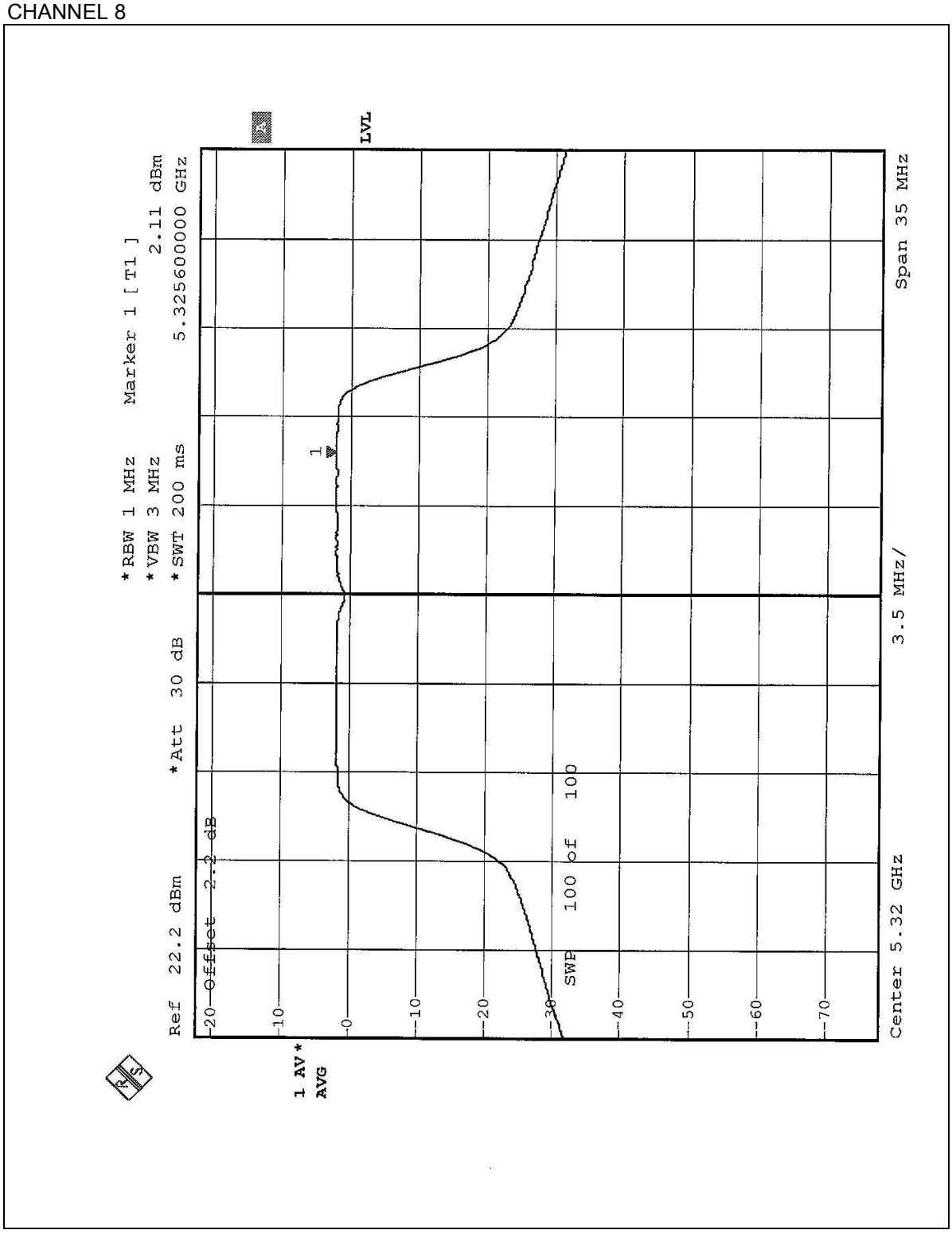
CHANNEL 4


Marker 1 [T1]
0.16 dBm
5.245600000 GHz
*RBW 1 MHz
*VBW 3 MHz
*SWT 200 ms
*Att 30 dB
Ref 22.2 dBm
Offset 2.2 dB
1 AV *
AVG
SWP 100 of 100
Center 5.24 GHz
3.5 MHz/
Span 35 MHz
LVL

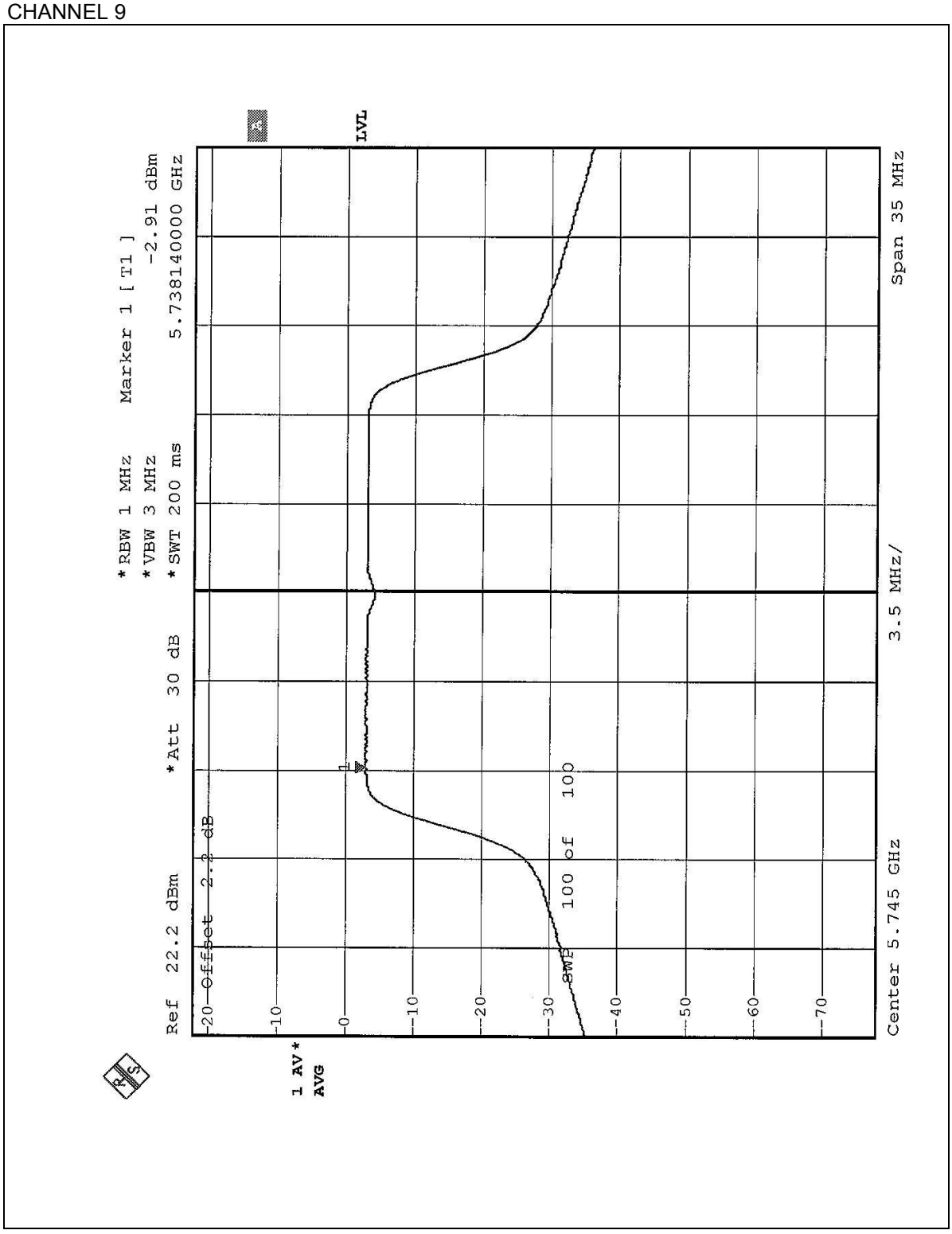
CHANNEL 5


Marker 1 [T1]
1.98 dBm
5.265460000 GHz
*RBW 1 MHz
*VBW 3 MHz
*SWT 200 ms
*Att 30 dB
Ref 22.2 dBm
Offset 2.2 dB
LVL
1 AV*
AVG
SWP 100 of 100
Center 5.26 GHz
3.5 MHz/
Span 35 MHz

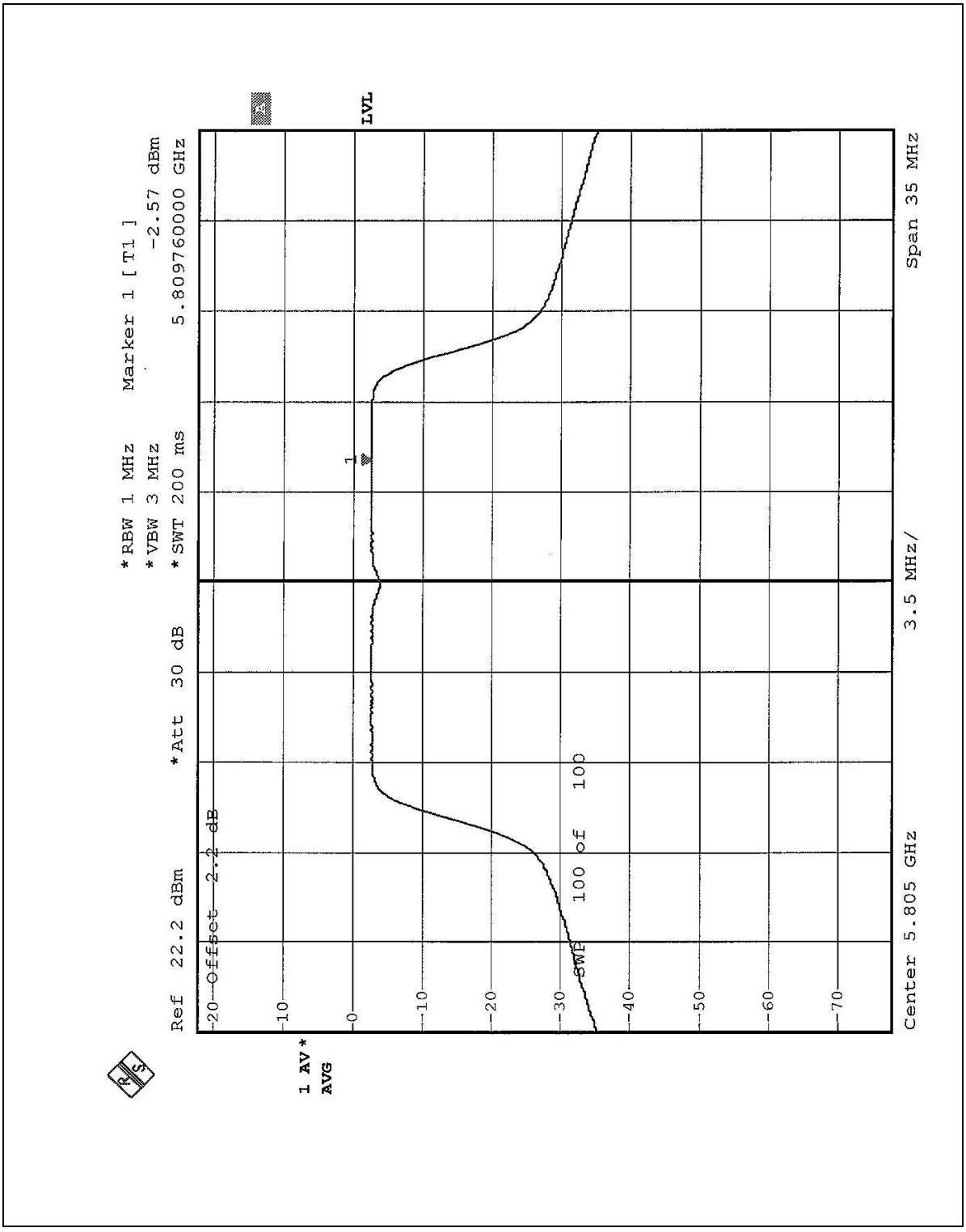
CHANNEL 8


Ref 22.2 dBm
Offset 2.2 dB
*Att 30 dB
*RBW 1 MHz
*VBW 3 MHz
*SWT 200 ms
Marker 1 [T1]
2.11 dBm
5.325600000 GHz
LVL
SWP 100 of 100
1 AV *
AVG
Center 5.32 GHz
3.5 MHz/
Span 35 MHz

CHANNEL 9


Ref 22.2 dBm
Offset 2.2 dB
*Att 30 dB
*RBW 1 MHz
*VBW 3 MHz
*SWT 200 ms
Marker 1 [T1]
-2.91 dBm
5.738140000 GHz
LVL
1 AV*
AVG
SWP 100 of 100
Center 5.745 GHz
3.5 MHz/
Span 35 MHz

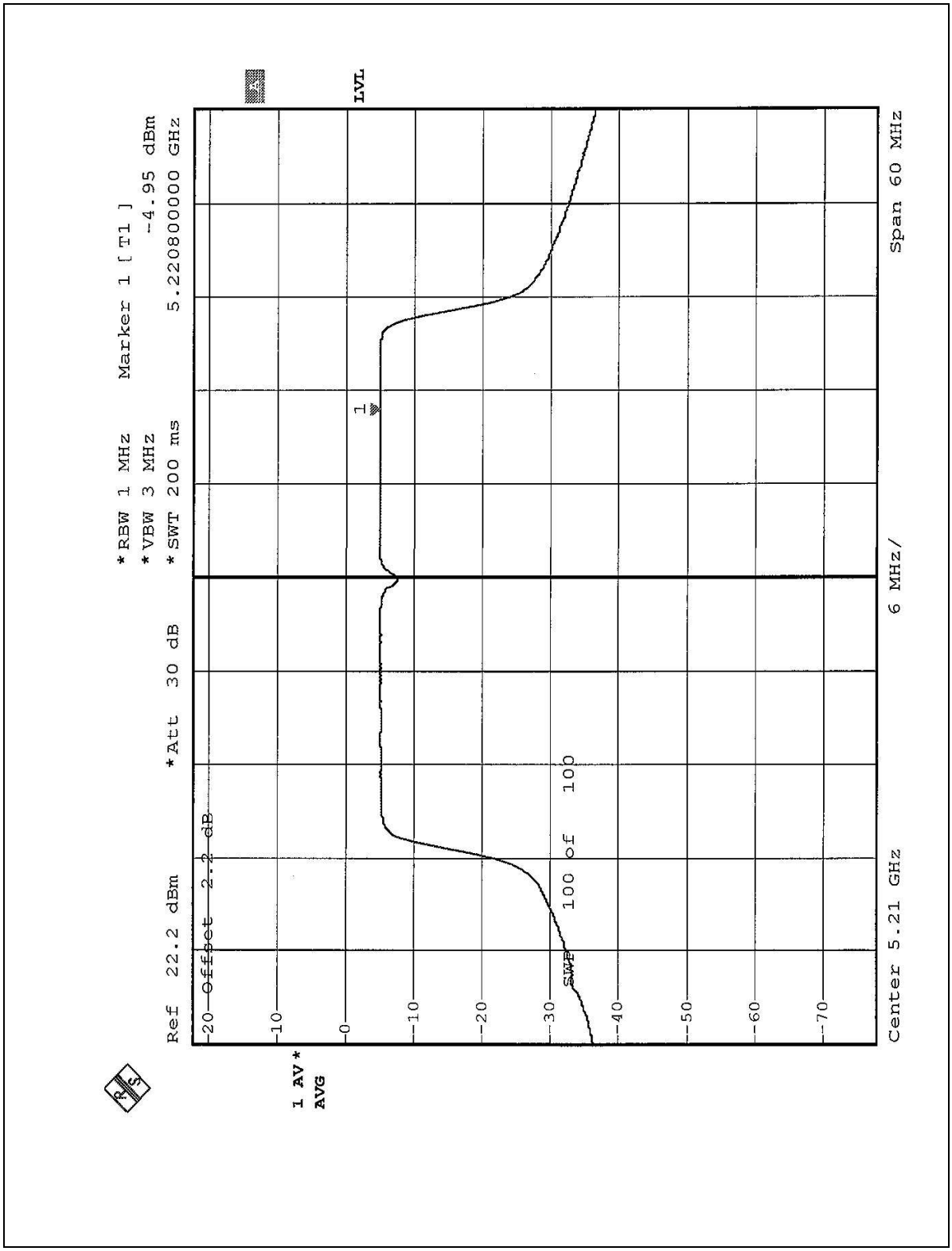
CHANNEL 12


Marker 1 [T1]
-2.57 dBm
5.809760000 GHz
*RBW 1 MHz
*VBW 3 MHz
*SWT 200 ms
*Att 30 dB
Ref 22.2 dBm
Offset 2.2 dB
1 AV*
AVG
SWP 100 of 100
Center 5.805 GHz
3.5 MHz/
Span 35 MHz
LVL

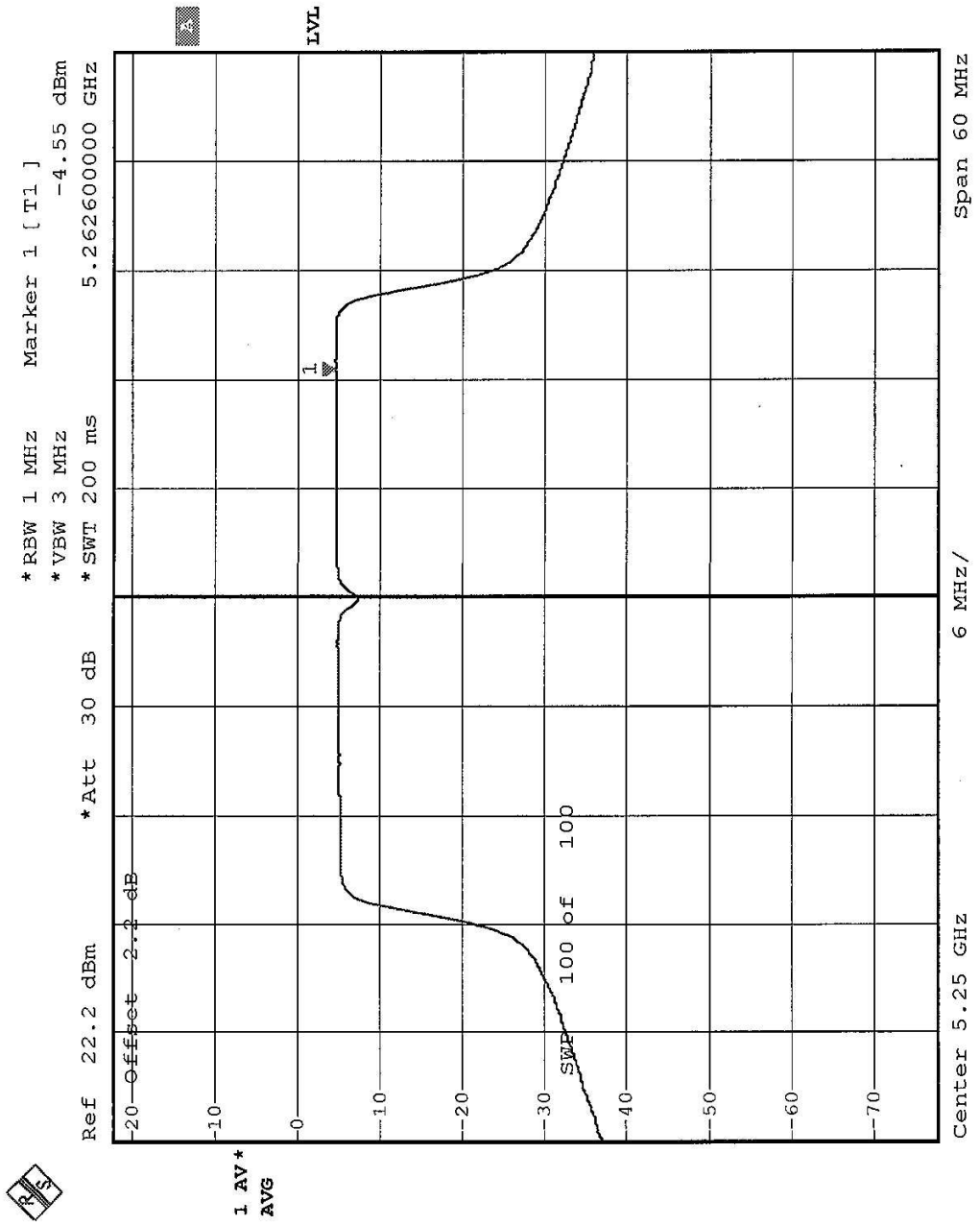
EUT	Wireless 54Mbps MiniPCI Card	**MODEL**	GL5054MP-AA0
MODE	Turbo	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	29 deg. C, 54%RH, 1005 hPa	**TESTED BY**	Steven Lu

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1 MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5210	-4.95	4	PASS
2	5250	-4.55	4	PASS
3	5290	-3.74	11	PASS
4	5760	-5.60	17	PASS
5	5800	-5.39	17	PASS

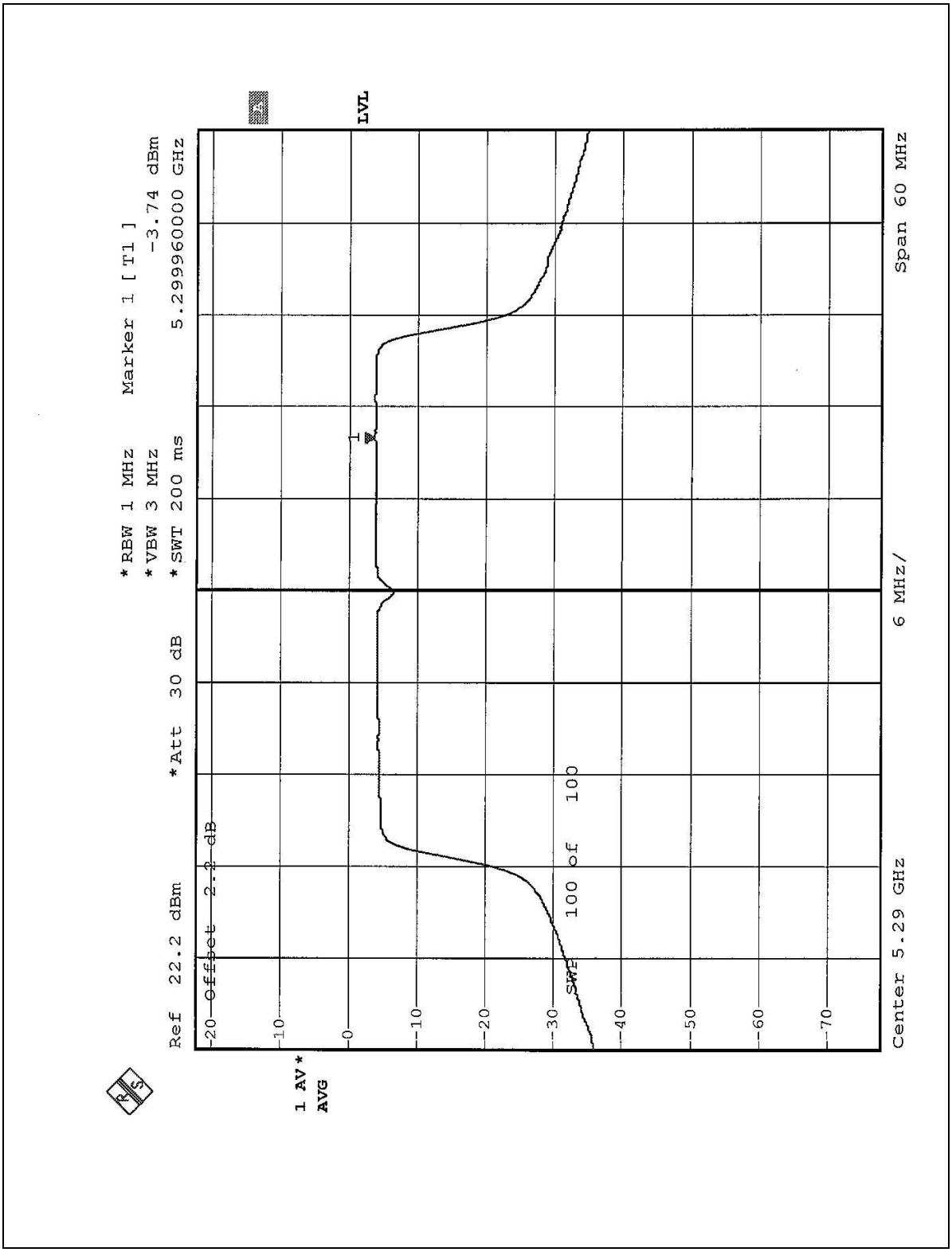
CHANNEL 1


Marker 1 [T1]
-4.95 dBm
5.220800000 GHz
*RBW 1 MHz
*VBW 3 MHz
*SWT 200 ms
*Att 30 dB
Ref 22.2 dBm
Offset 2.2 dB
1 AV*
AVG
SWP 100 of 100
Center 5.21 GHz
6 MHz/
Span 60 MHz

CHANNEL 2


Ref 22.2 dBm
Offset 2.2 dB
*Att 30 dB
*RBW 1 MHz
*VBW 3 MHz
*SWT 200 ms
Marker 1 [T1]
-4.55 dBm
5.26260000 GHz
LVL
1 AV*
AVG
SWP 100 of 100
Center 5.25 GHz
6 MHz/
Span 60 MHz

CHANNEL 3


Ref 22.2 dBm
Offset 2.2 dB
*Att 30 dB
*RBW 1 MHz
*VBW 3 MHz
*SWT 200 ms
Marker 1 [T1]
-3.74 dBm
5.299960000 GHz
LVL
1 AV *
AVG
SWP 100 of 100
Center 5.29 GHz
6 MHz/
Span 60 MHz