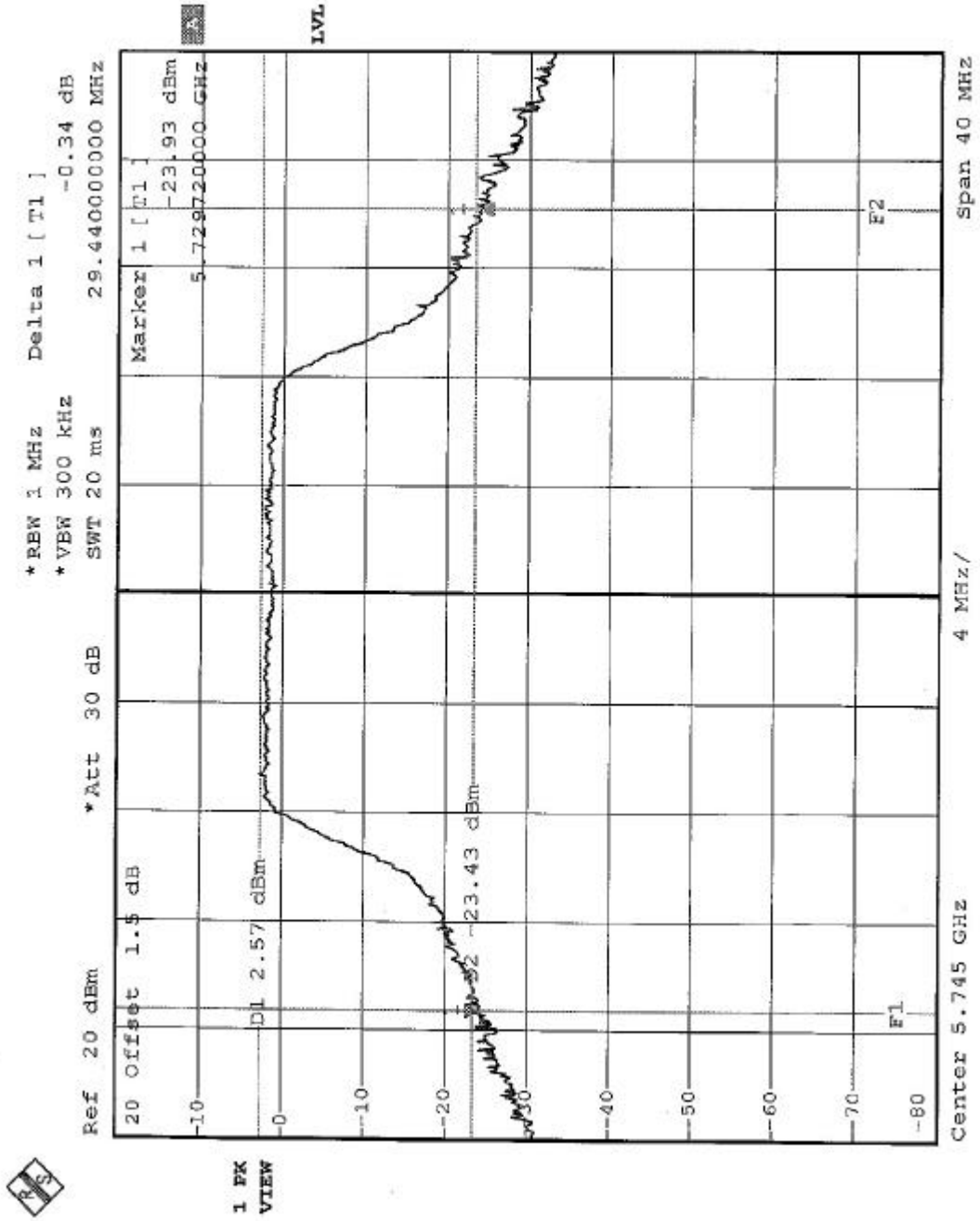
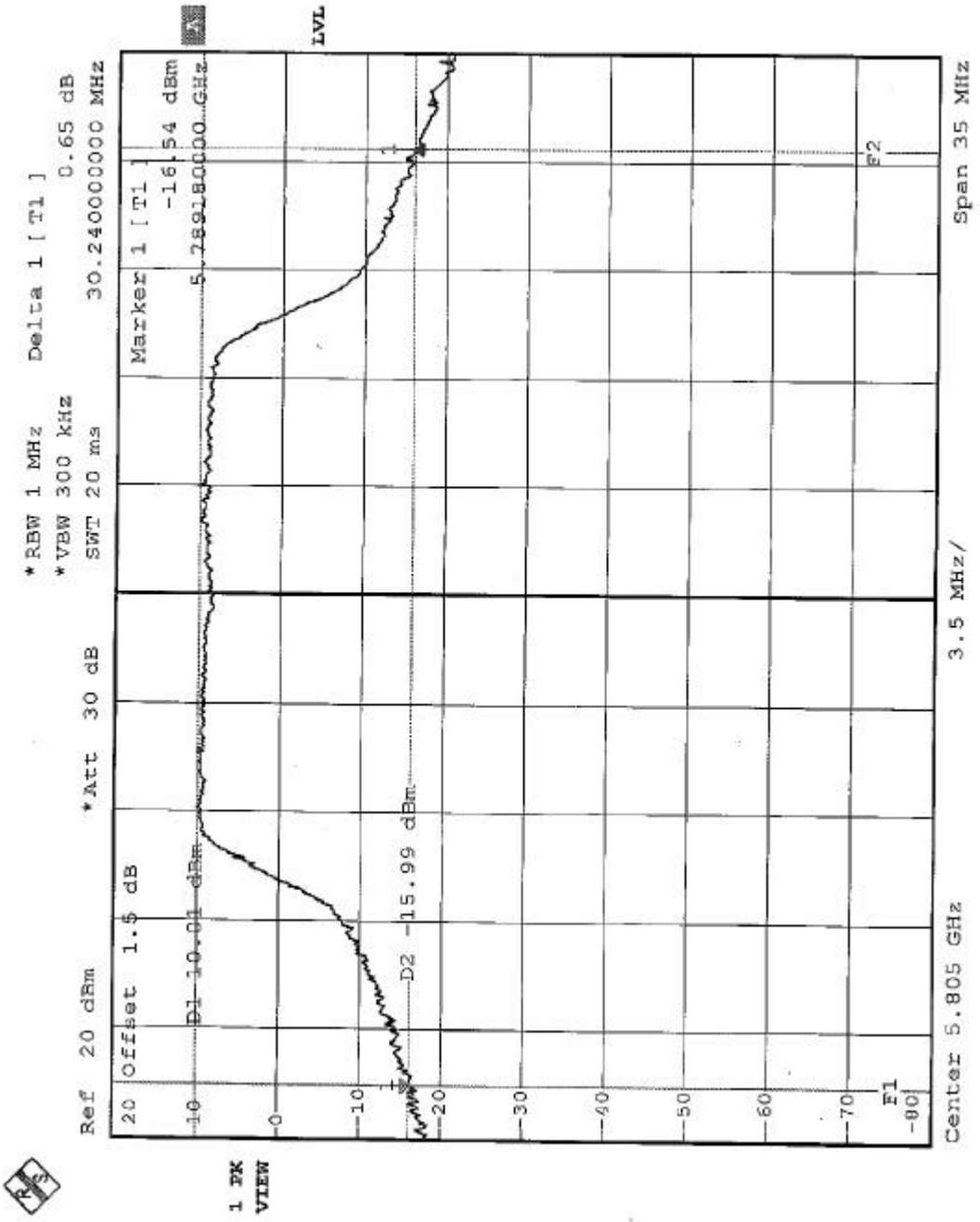
CHANNEL9


Ref 20 dBm
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Delta 1 [T1]
-0.34 dB
29.440000000 MHz
Marker 1 [T1]
-23.93 dBm
5.729720000 GHz
20 Offset 1.5 dB
D1 2.57 dBm
-23.43 dBm
1 PK
VIEW
LVL
F1
F2
Center 5.745 GHz
4 MHz/
Span 40 MHz

CHANNEL 12

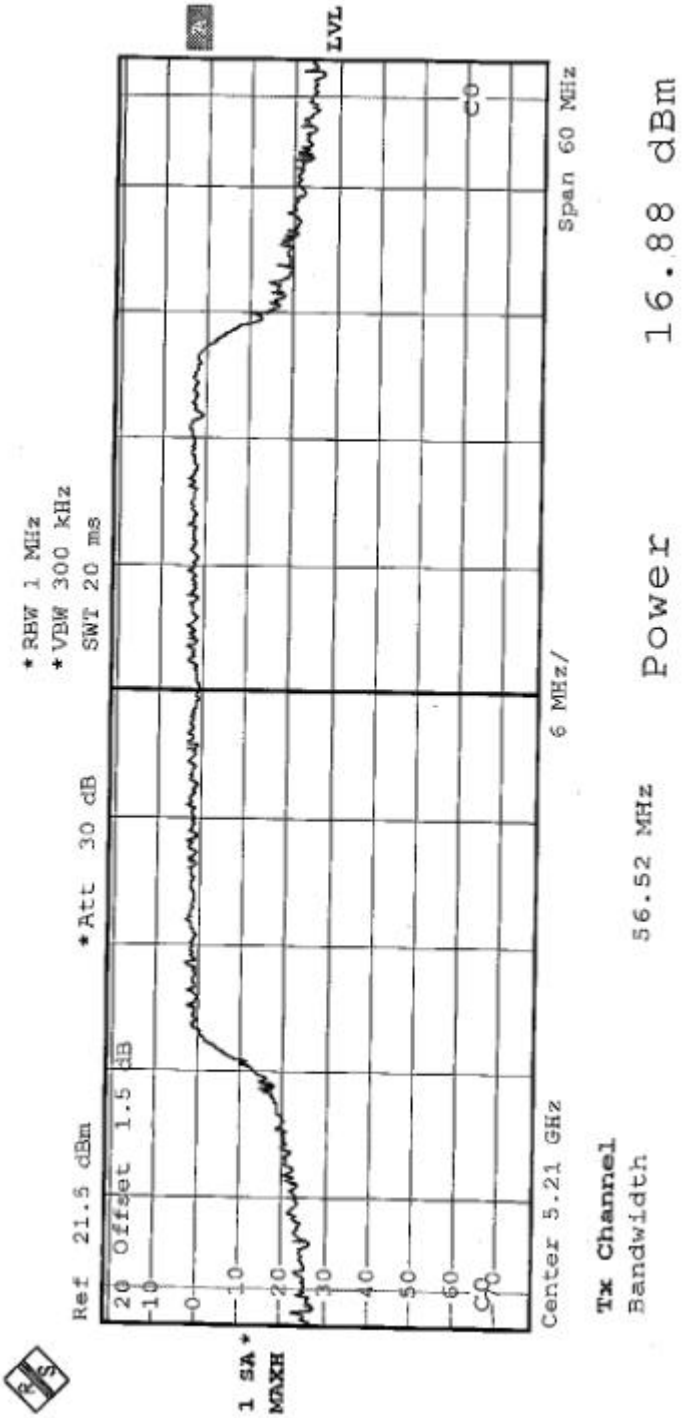

Ref 20 dBm
Offset 1.5 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Delta 1 [T1]
0.65 dB
30.24000000 MHz
Marker 1 [T1]
-16.54 dBm
5.2818000 GHz
D1 10.01 dBm
D2 -15.99 dBm
LVL
1 PK
VIEW
Center 5.805 GHz
3.5 MHz/
Span 35 MHz

EUT	Wireless LAN Access Point 8700	**MODEL**	3CRWE870075A
MODE	Turbo	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	19eg. C, 64RH, 976 hPa	**TESTED BY**	Hank Chung

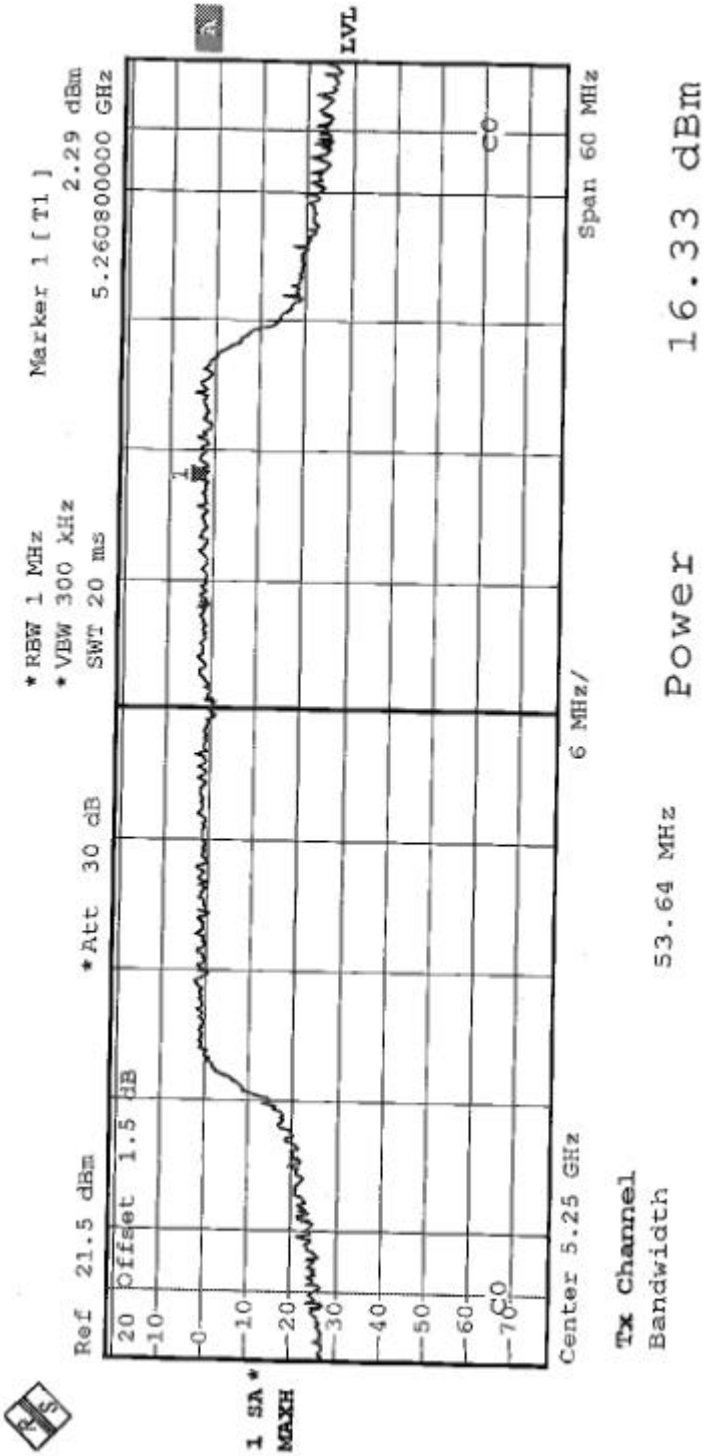
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
1	5210	16.88	17	56.52	PASS
2	5250	16.33	17	53.64	PASS
3	5290	18.71	24	53.16	PASS
4	5760	19.71	30	55.44	PASS
5	5800	19.39	30	53.16	PASS

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

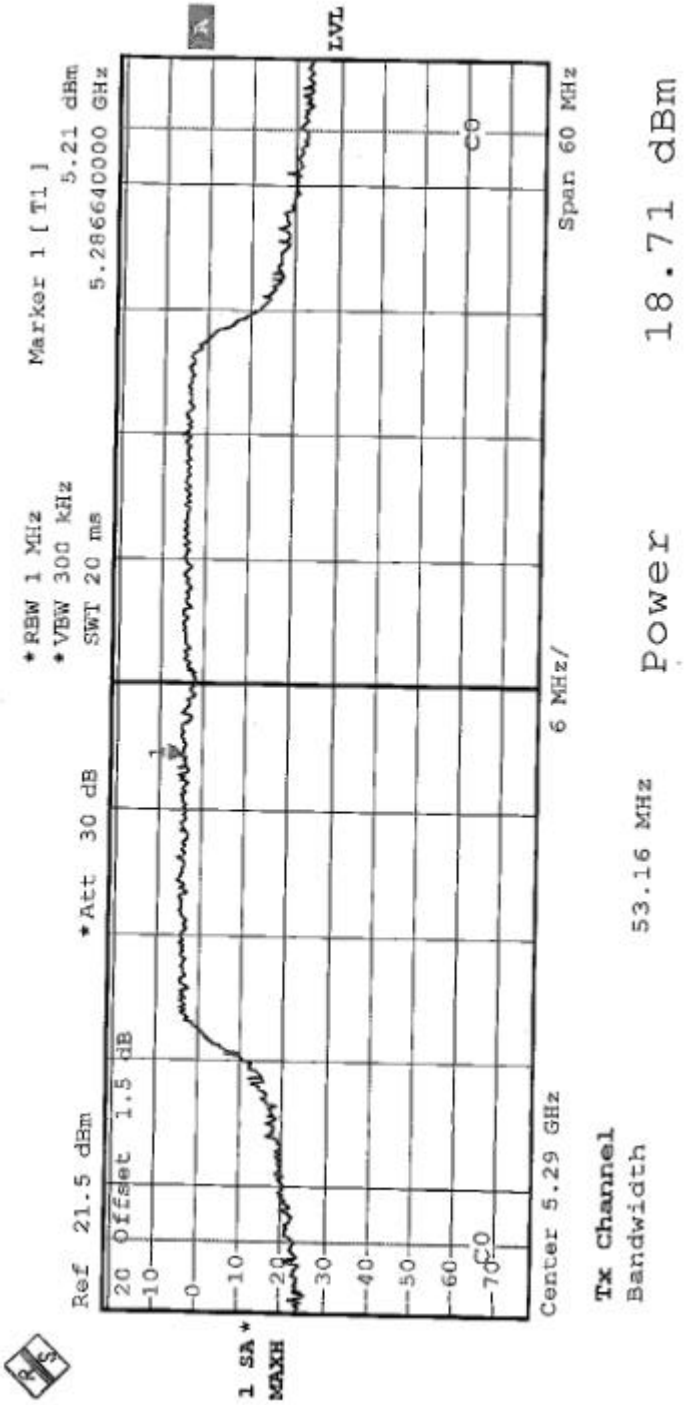
CHANNEL 1


Ref 21.5 dBm
Offset 1.5 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
1 SA*
MAXH
LVL
Center 5.21 GHz
6 MHz/
Span 60 MHz
Tx Channel
Bandwidth
56.52 MHz
Power
16.88 dBm

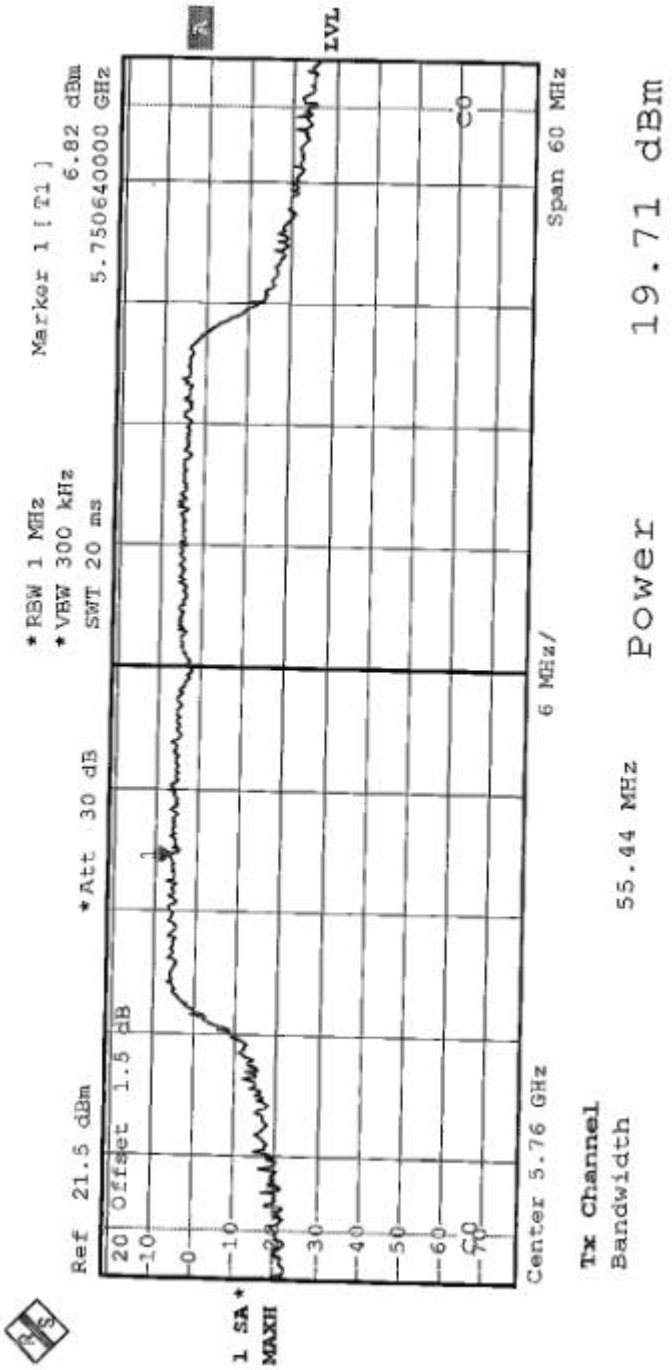
CHANNEL 2


Ref 21.5 dBm
Offset 1.5 dB
* Att 30 dB
* RBW 1 MHz
* VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
2.29 dBm
5.26080000 GHz
1 SA *
MAXH
LVL
Center 5.25 GHz
6 MHz/
Span 60 MHz
Tx Channel
Bandwidth
53.64 MHz
Power
16.33 dBm

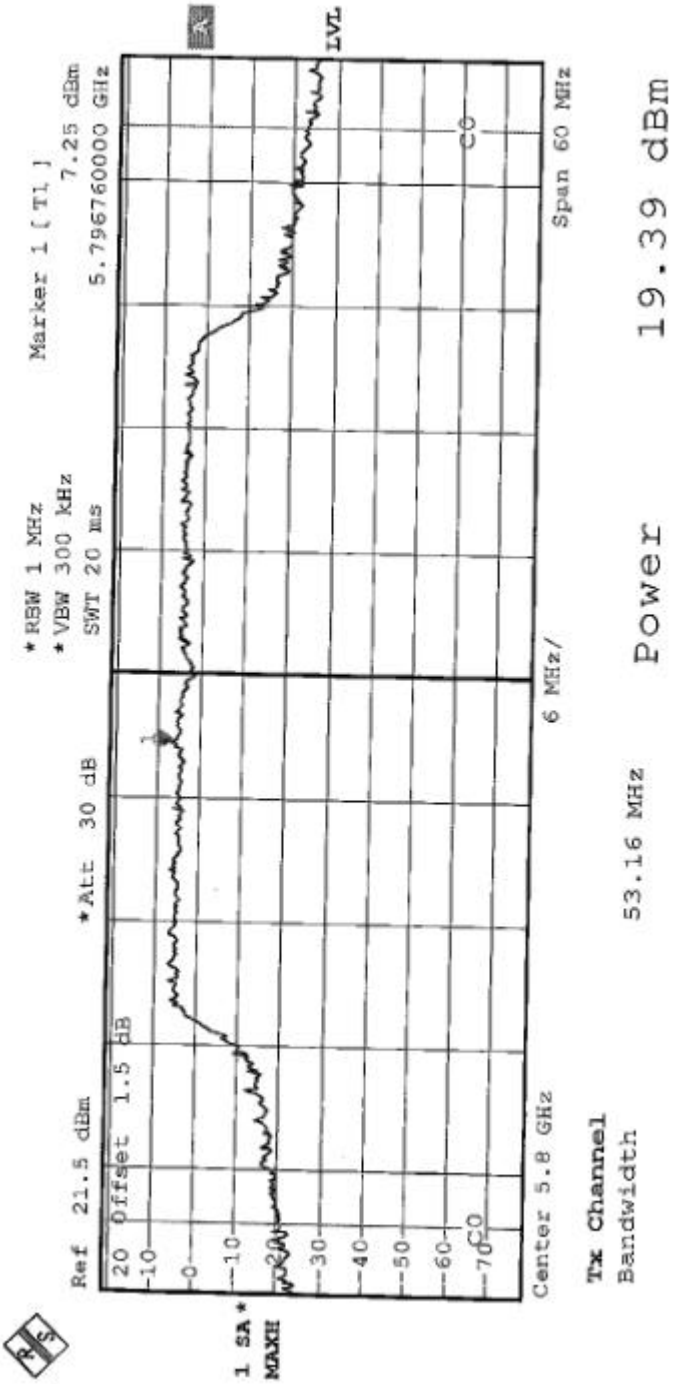
CHANNEL 3


Ref 21.5 dBm
Offset 1.5 dB
* Att 30 dB
* RBW 1 MHz
* VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
5.21 dBm
5.28664000 GHz
1 SA *
MAXH
LVL
Center 5.29 GHz
6 MHz/
Span 60 MHz
Tx Channel
Bandwidth
53.16 MHz
Power
18.71 dBm

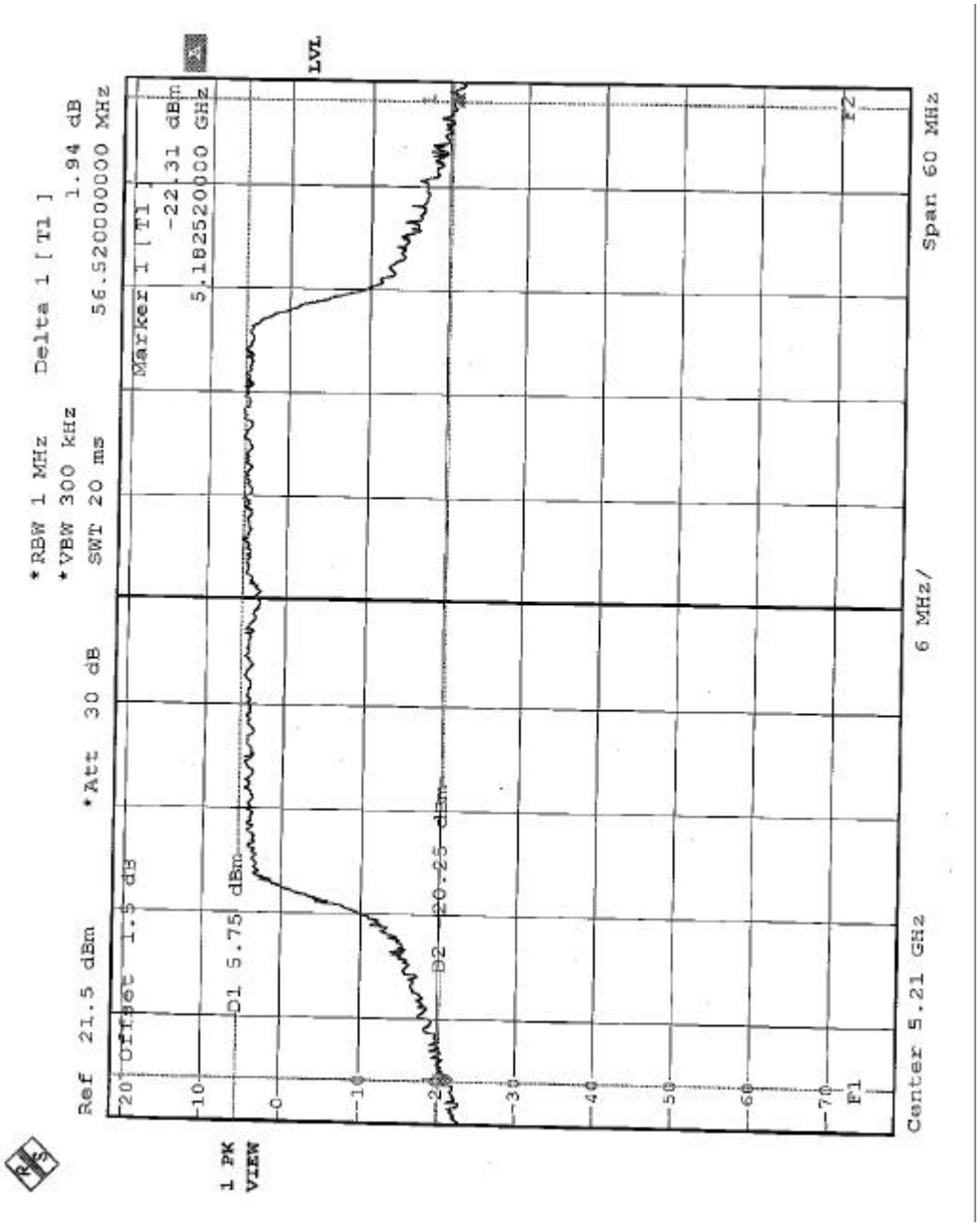
CHANNEL 4


Ref 21.5 dBm
Offset 1.5 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
6.82 dBm
5.750640000 GHz
1 SA *
MAXH
LVL
Center 5.76 GHz
6 MHz/
Span 60 MHz
Tx Channel
Bandwidth
55.44 MHz
Power
19.71 dBm

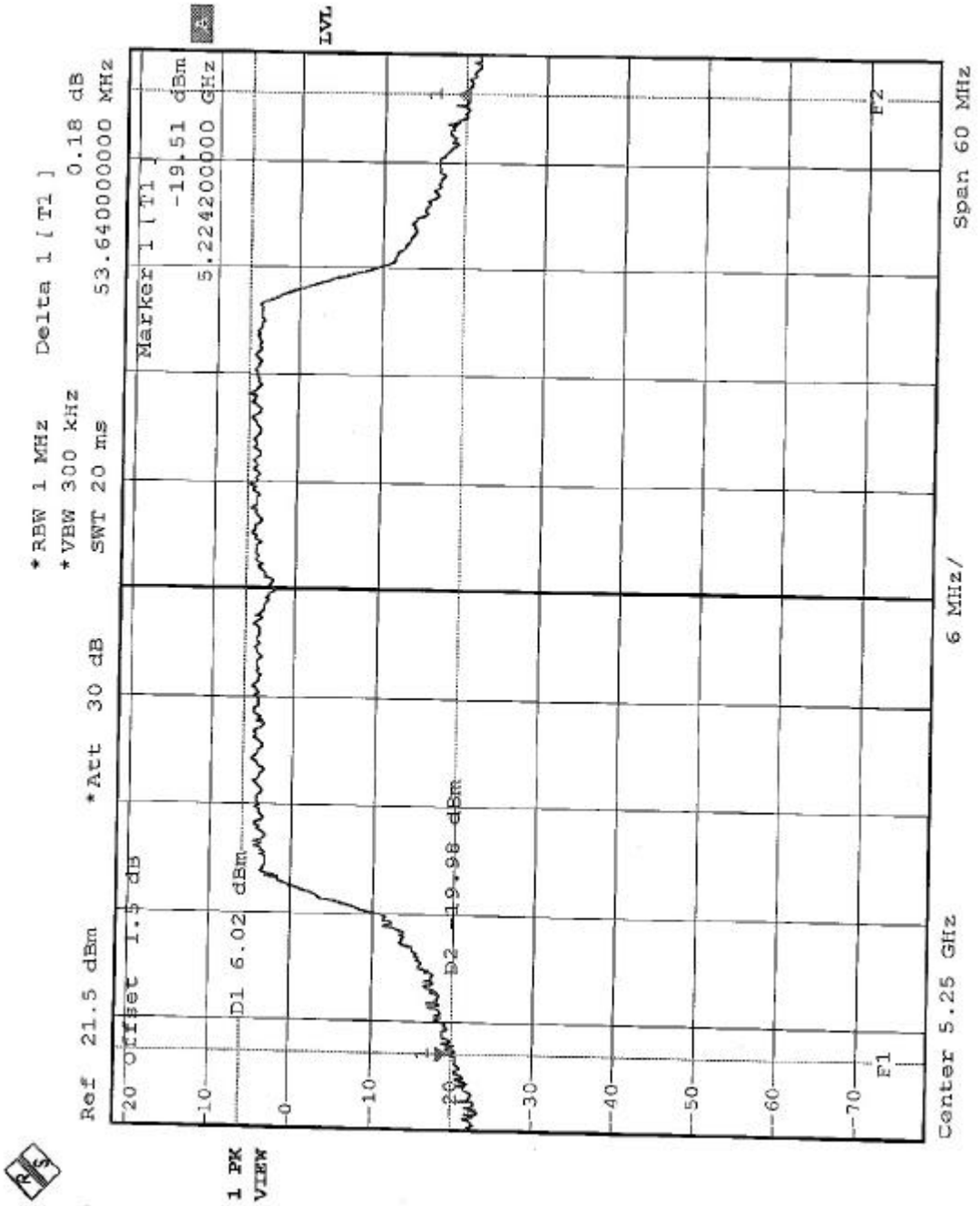
CHANNEL 5


Ref 21.5 dBm
Offset 1.5 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
7.25 dBm
5.79676000 GHz
1 SA *
MAXH
LVL
Center 5.8 GHz
6 MHz/
Span 60 MHz
Tx Channel
Bandwidth
53.16 MHz
Power
19.39 dBm

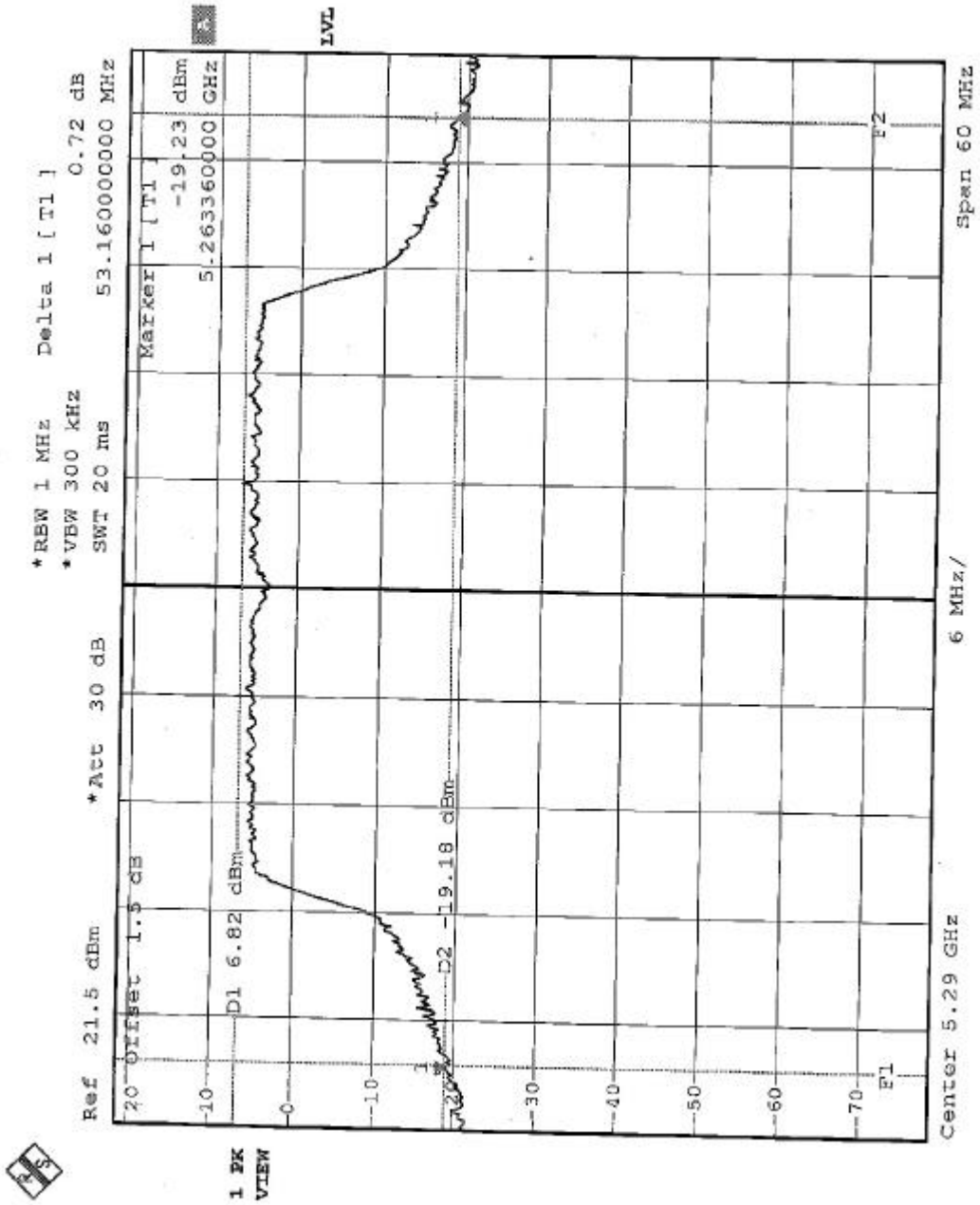
CHANNEL 1


Ref 21.5 dBm
Offset 1.5 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Delta 1 [T1]
1.94 dB
56.52000000 MHz
Marker 1 [T1]
-22.31 dBm
5.18520000 GHz
D1 5.75 dBm
D2 -20.25 dBm
LVL
1 PK
VIEW
Center 5.21 GHz
6 MHz/
Span 60 MHz

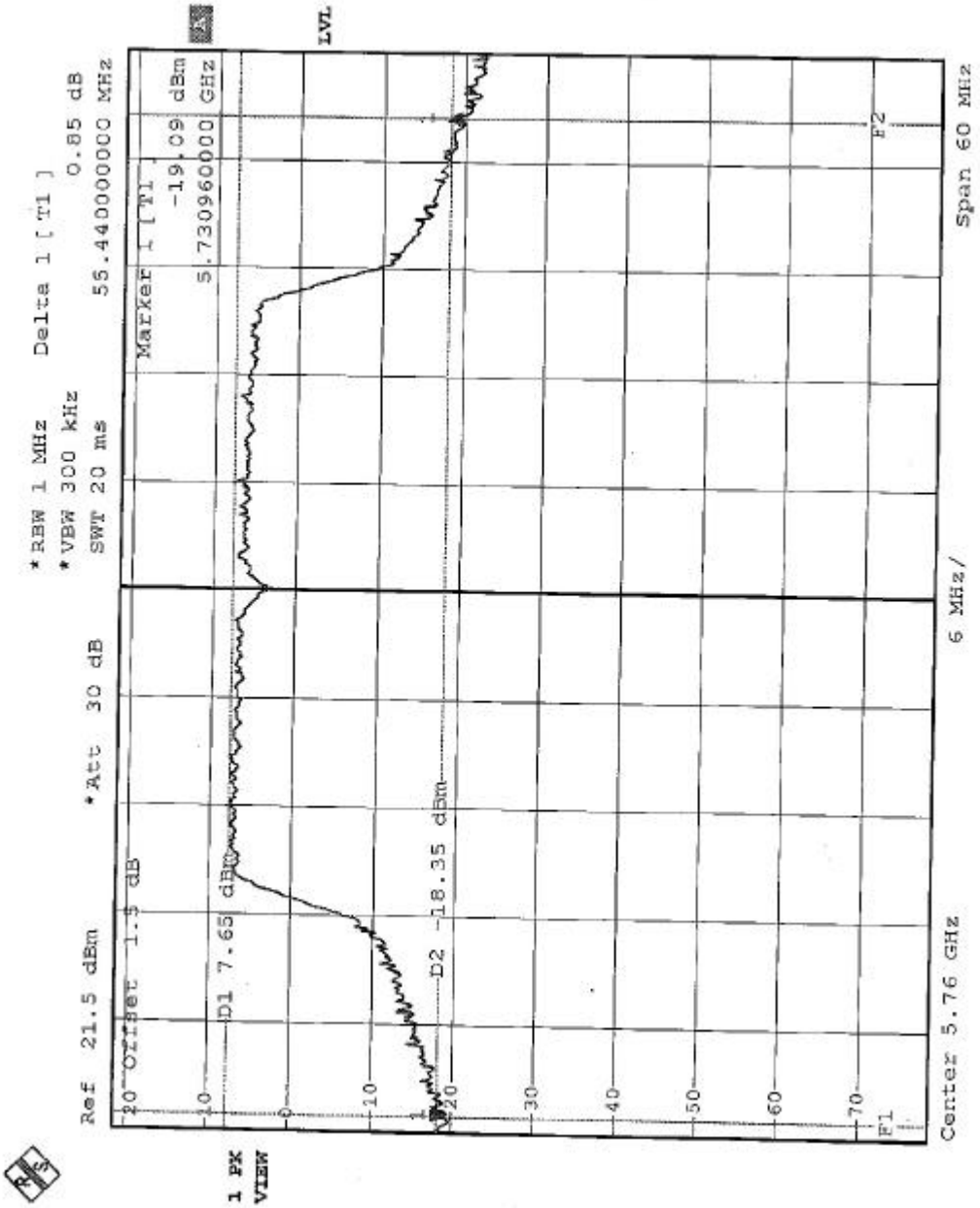
CHANNEL 2


Ref 21.5 dBm
Offset 1.5 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Delta 1 [T1]
0.18 dB
53.640000000 MHz
Marker 1 [T1]
-19.51 dBm
5.224200000 GHz
D1 6.02 dBm
D2 -19.98 dBm
1 PK
VIEW
LVL
Center 5.25 GHz
6 MHz/
Span 60 MHz
F1
F2

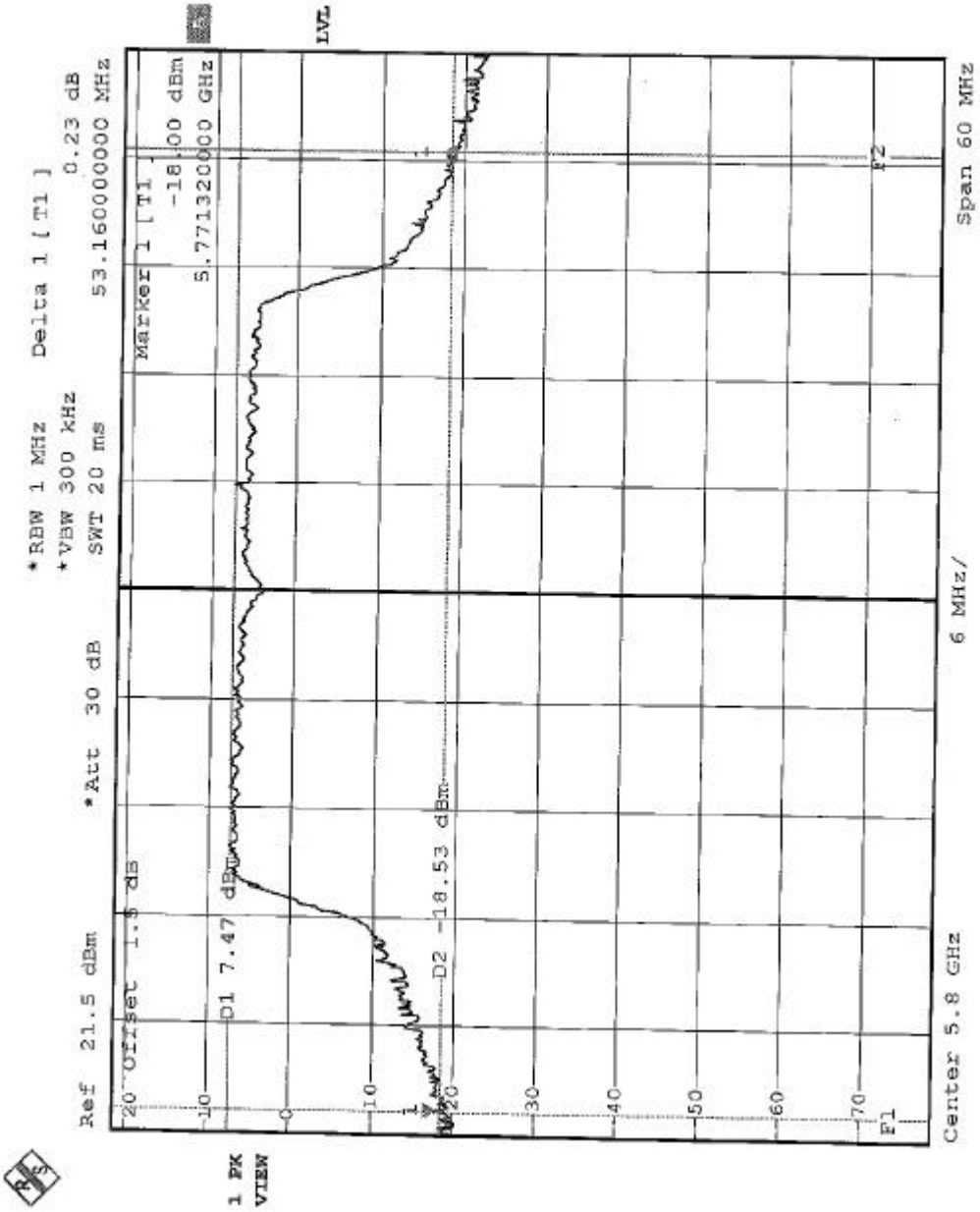
CHANNEL 3


Ref 21.5 dBm
Offset 1.5 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Delta 1 [T1]
0.72 dB
53.160000000 MHz
Marker 1 [T1]
-19.23 dBm
5.263600000 GHz
D1 6.82 dBm
D2 -19.18 dBm
1 PK
VIEW
LVL
Center 5.29 GHz
6 MHz/
Span 60 MHz

CHANNEL 4


Ref 21.5 dBm
Offset 1.5 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Delta 1 [T1]
0.85 dB
56.44000000 MHz
Marker 1 [T1]
-19.09 dBm
5.730960000 GHz
D1 7.65 dBm
D2 -18.35 dBm
LVL
1 PK
VIEW
Center 5.76 GHz
6 MHz/
Span 60 MHz
F1
F2

CHANNEL 5


Ref 21.5 dBm
Offset 1.5 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Delta 1 [T1]
0.23 dB
53.16000000 MHz
Marker 1 [T1]
-18.00 dBm
5.77132000 GHz
D1 7.47 dB
D2 -18.53 dBm
LVL
1 PK
VIEW
Center 5.8 GHz
6 MHz/
Span 60 MHz

5.4 PEAK POWER EXCURSION MEASUREMENT

5.4.1 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

5.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP	1093.4495.30	Dec. 19, 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.

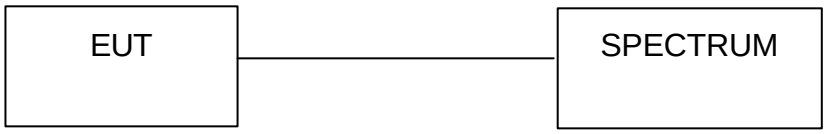
5.4.3 TEST PROCEDURE

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=30KHz).
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	Wireless LAN Access Point 8700	**MODEL**	3CRWE870075A
MODE	Normal	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	19eg. C, 64RH, 976 hPa	**TESTED BY**	Hank Chung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
1	5180	7.11	13	PASS
4	5240	8.18	13	PASS
5	5260	8.38	13	PASS
8	5320	8.30	13	PASS
9	5745	7.74	13	PASS
12	5805	8.50	13	PASS