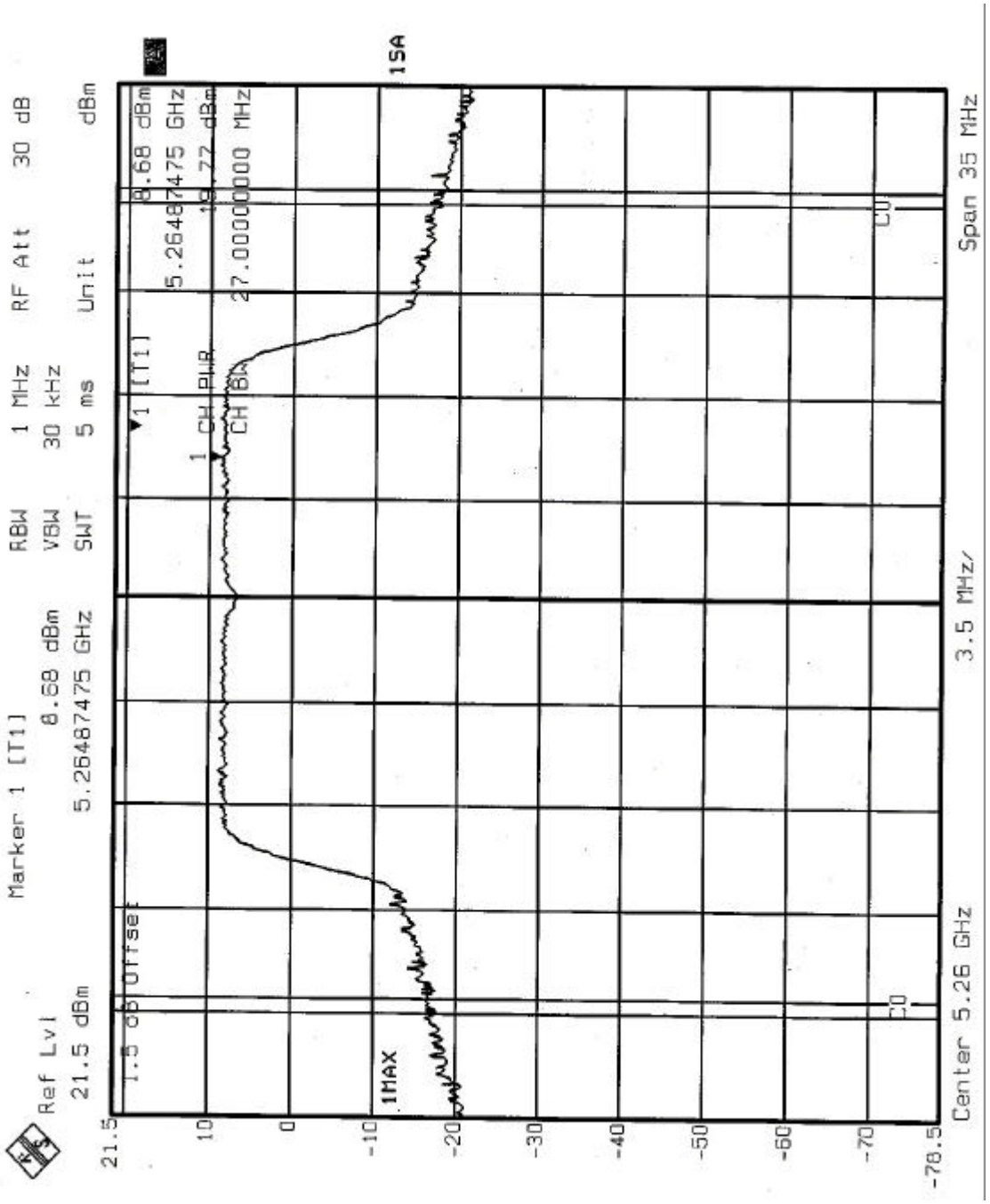
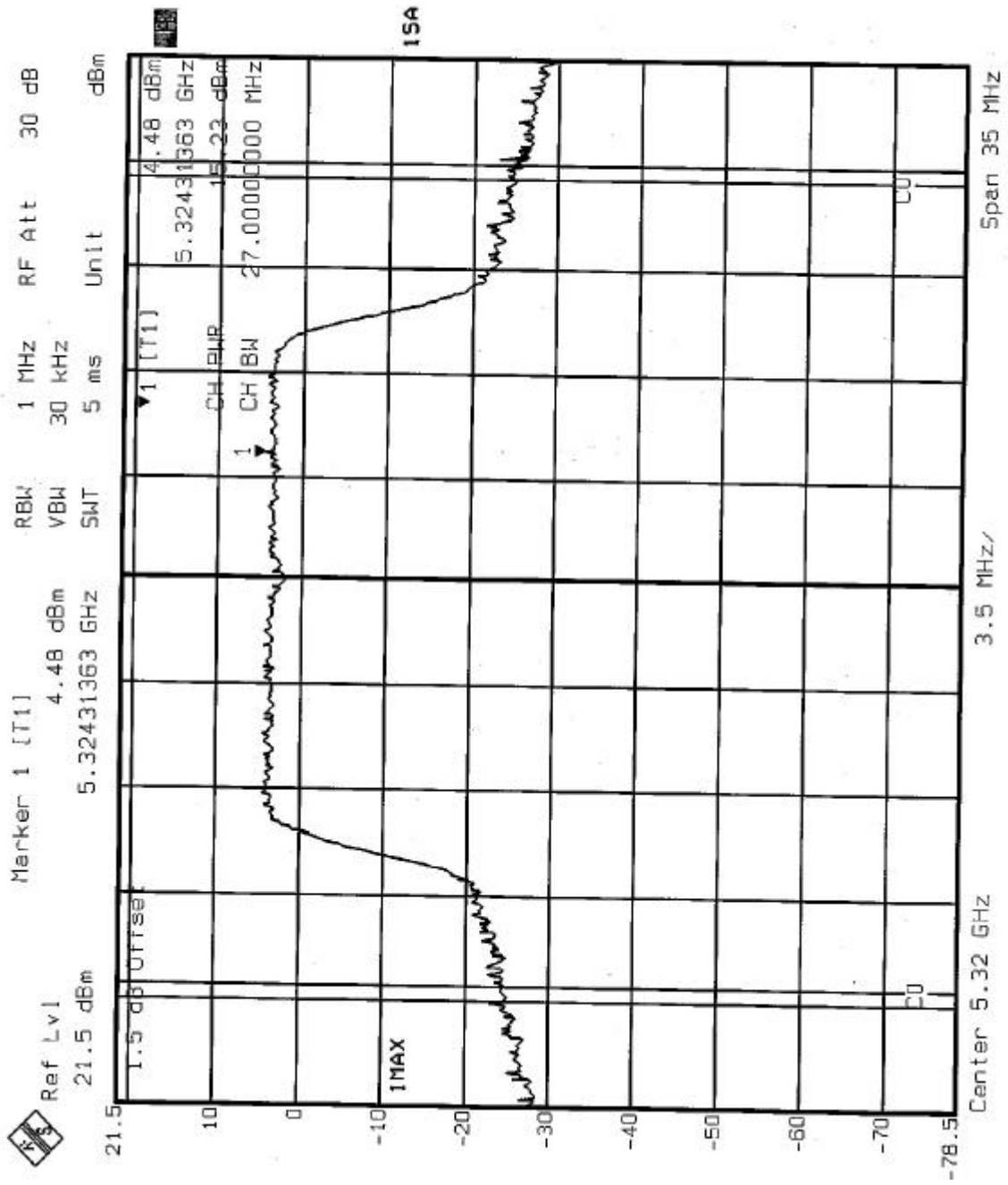
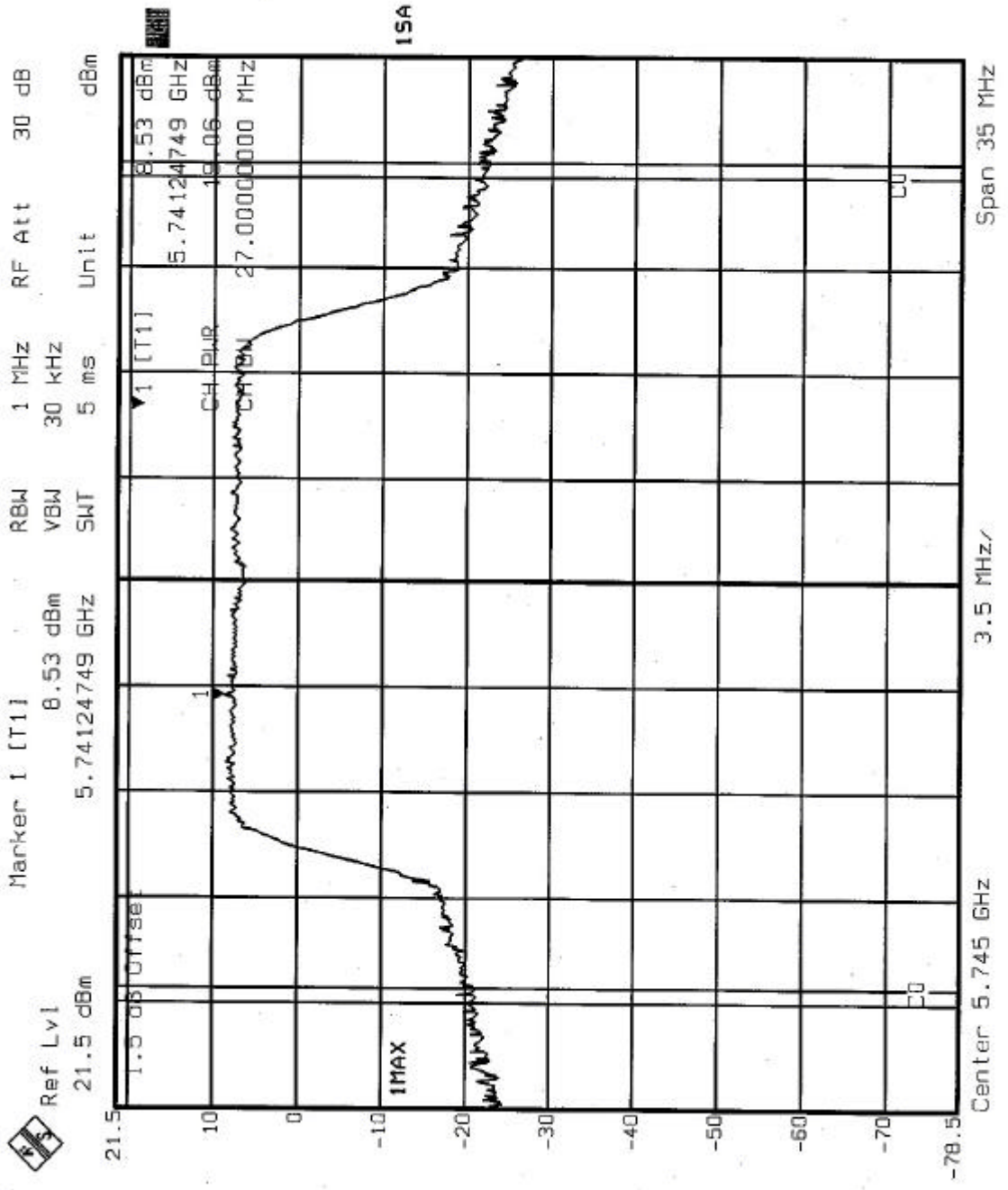
CHANNEL 5


Ref Lvl
21.5 dBm
1.5 dB Offset
Marker 1 [T1]
8.68 dBm
5.26487475 GHz
RBW 1 MHz
VBW 30 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1SA
1MAX
Center 5.26 GHz
3.5 MHz/
Span 35 MHz

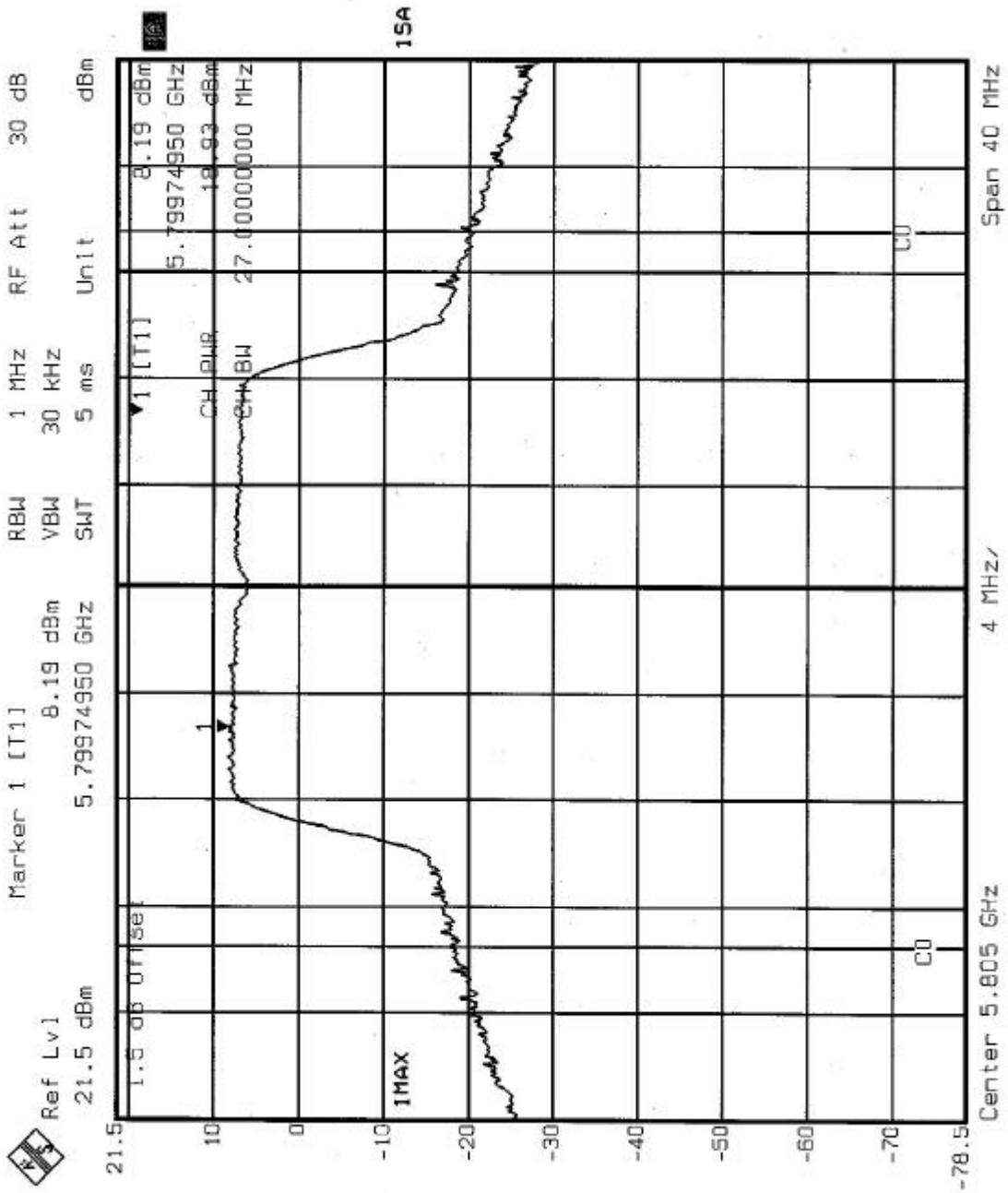
CHANNEL 8


Ref Lvl
21.5 dBm
1.5 dB Offset
Marker 1 [T1]
4.48 dBm
5.32431363 GHz
RBW 1 MHz
VBW 30 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1SA
1MAX
1 [T1]
CH PWR 4.48 dBm
1 CH BW 5.32431363 GHz
27.0000000 MHz
15.23 dBm
Center 5.32 GHz
3.5 MHz/
Span 35 MHz
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5

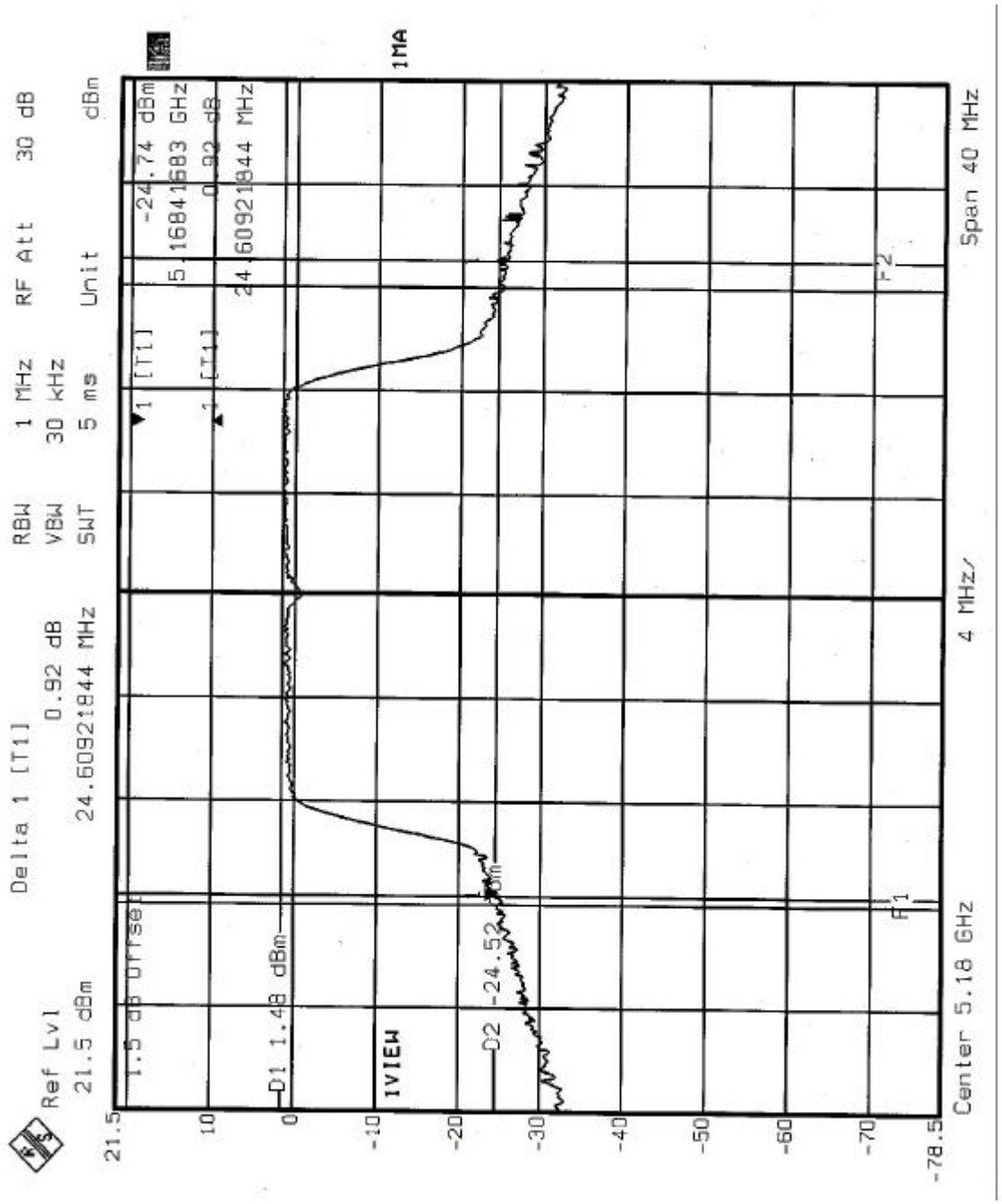
CHANNEL 9


Ref Lvl
21.5 dBm
1.5 dB Offset
Marker 1 [T1]
8.53 dBm
5.74124749 GHz
RBW 1 MHz
VBW 30 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1 [T1]
8.53 dBm
5.74124749 GHz
CH PWR 18.06 dBm
CH BW 27.00000000 MHz
1SA
1MAX
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5
Center 5.745 GHz
3.5 MHz/
Span 35 MHz

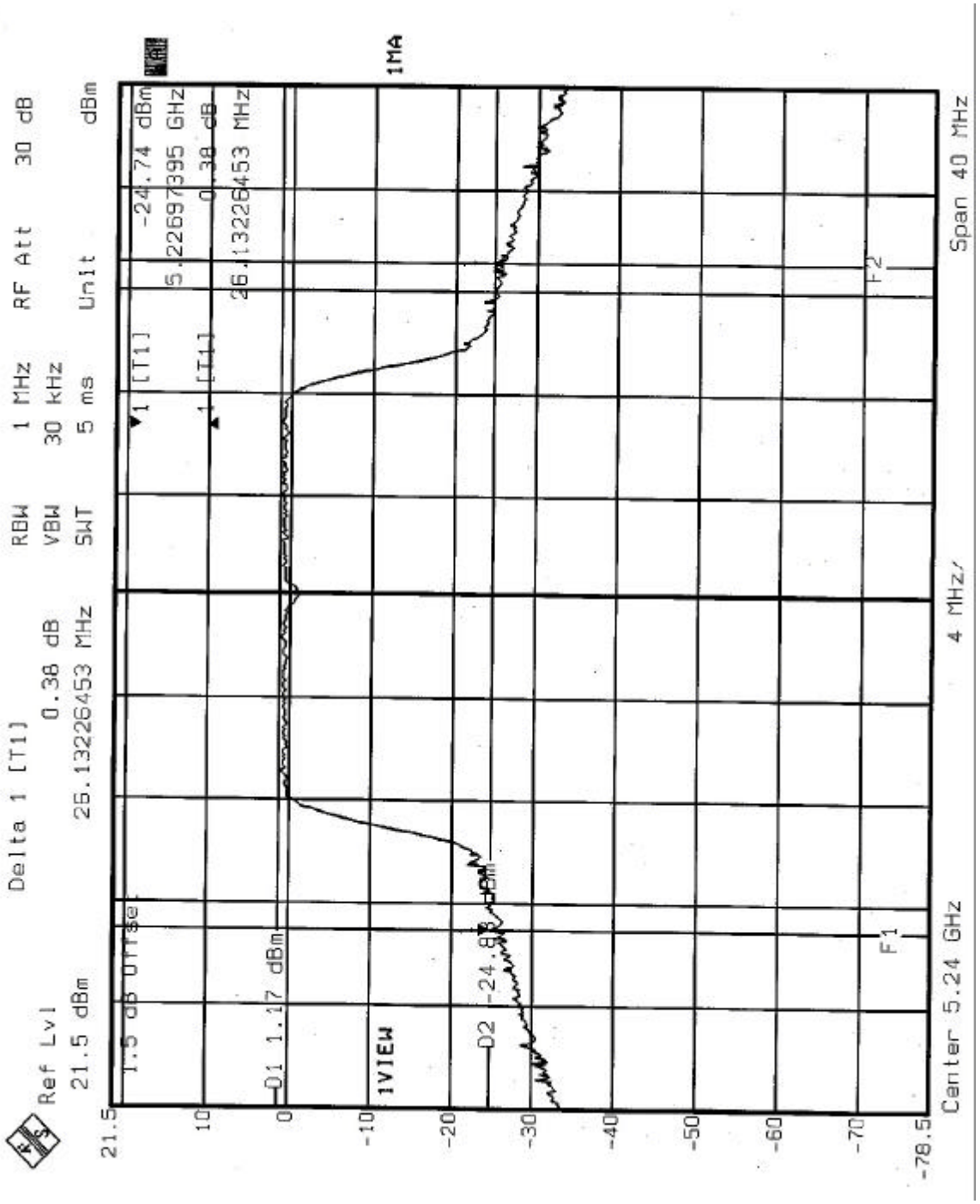
CHANNEL 12


Ref Lvl
21.5 dBm
1.5 dB Offset
Marker 1 [T1]
8.19 dBm
5.79974950 GHz
RBW 1 MHz
VBW 30 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1 [T1]
8.19 dBm
5.79974950 GHz
CH PWR 18.93 dBm
CH BW 27.00000000 MHz
1SA
1MAX
Center 5.805 GHz
4 MHz/
Span 40 MHz
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5

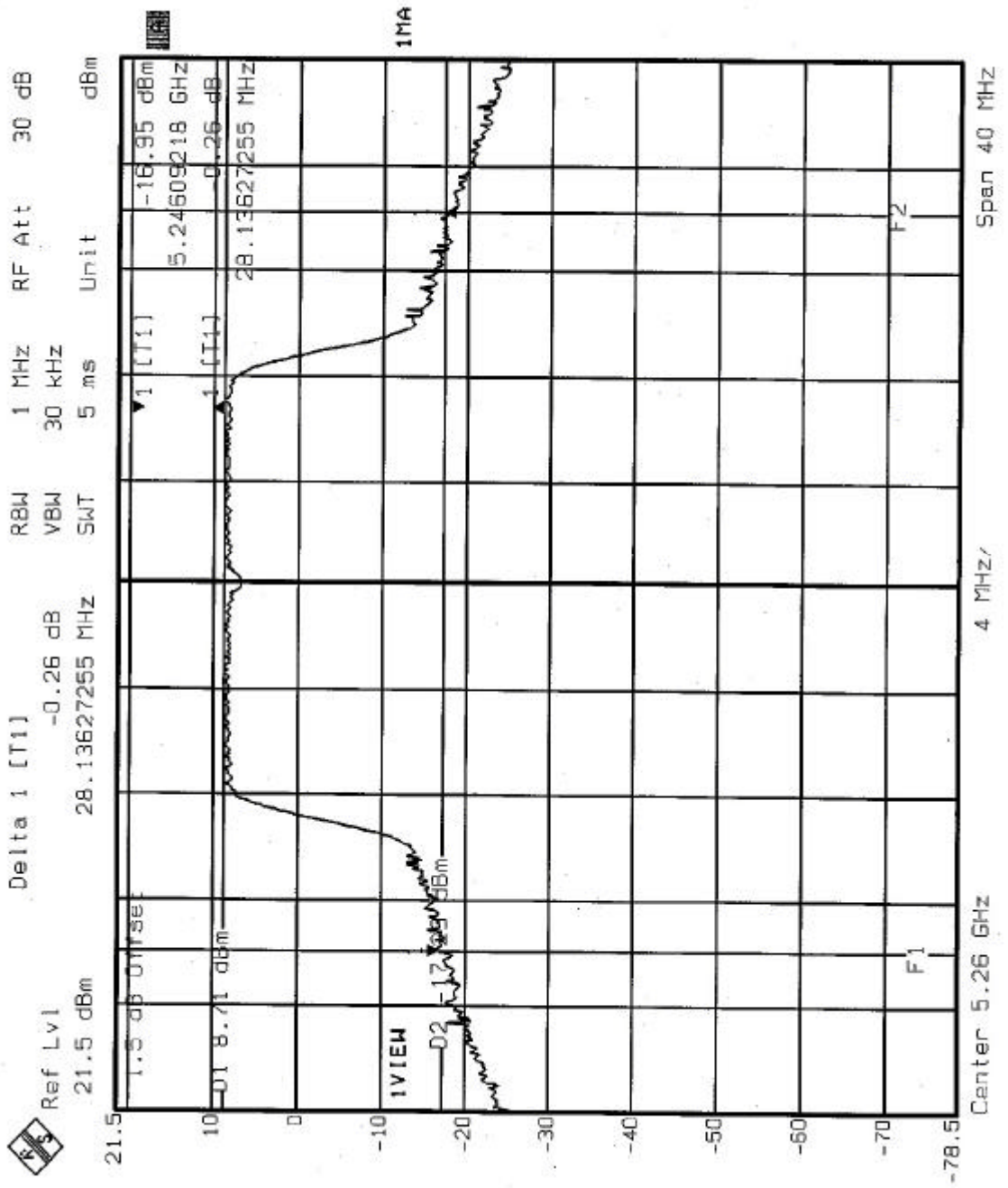
CHANNEL 1


Ref Lvl
21.5 dBm
1.5 dB Offset
Delta 1 [T1]
0.92 dB
24.60921844 MHz
RBW 1 MHz
VBW 30 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1 [T1] -24.74 dBm
5.16841683 GHz
1 [T1] 0.92 dB
24.60921844 MHz
1MA
D1 1.48 dBm
D2 -24.52 dBm
1VIEW
F1
F2
Center 5.18 GHz
4 MHz/
Span 40 MHz
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5

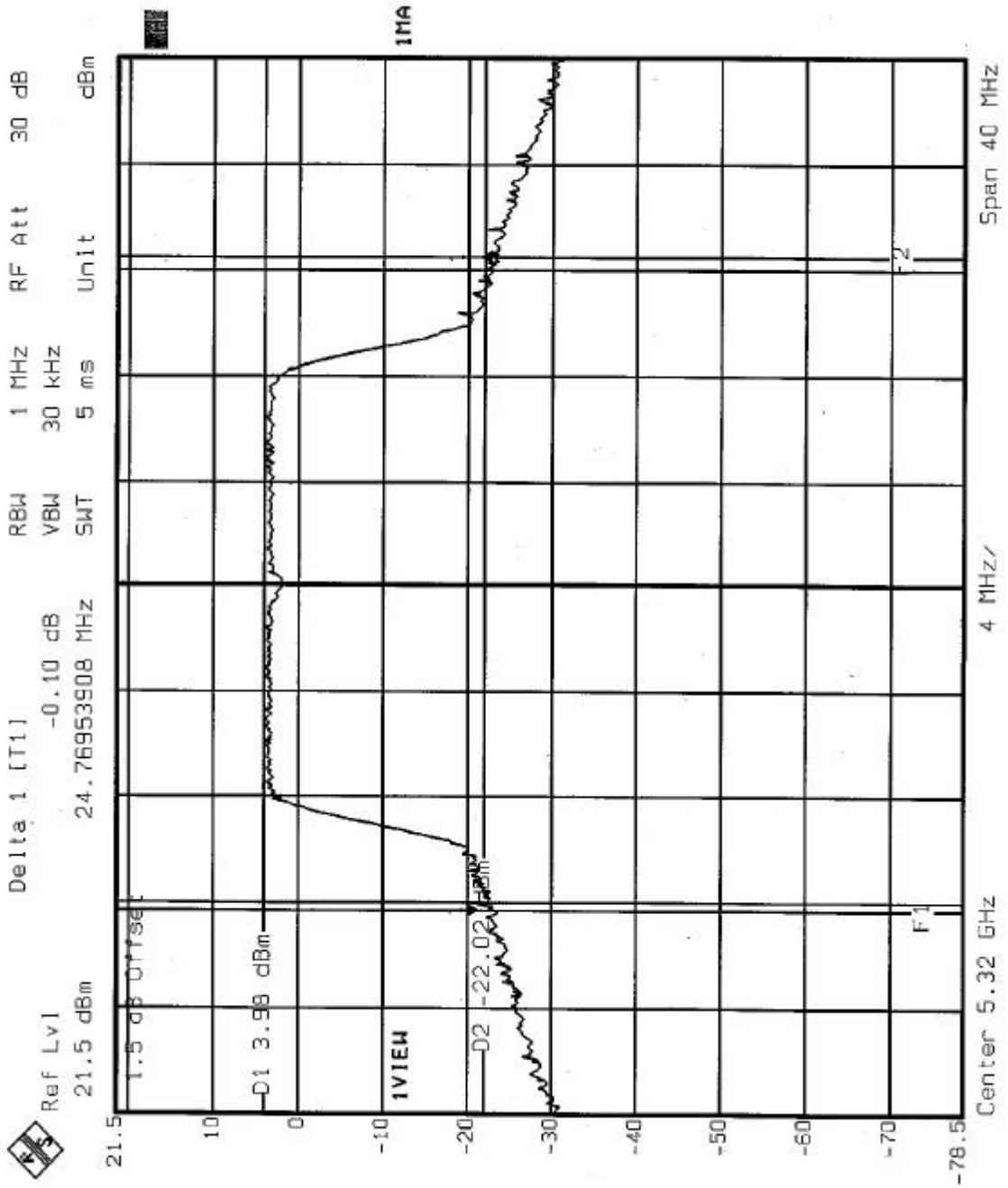
CHANNEL 4


Ref Lvl
21.5 dBm
1.5 dB Offset
Delta 1 [T1]
0.38 dB
25.13226453 MHz
RBW 1 MHz
VBW 30 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1 [T1] -24.74 dBm
5.22697395 GHz
1 [T1] 0.38 dB
26.13226453 MHz
1MA
D1 1.17 dBm
D2 -24.87 dBm
1VIEW
F1
F2
Center 5.24 GHz
4 MHz/
Span 40 MHz
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5

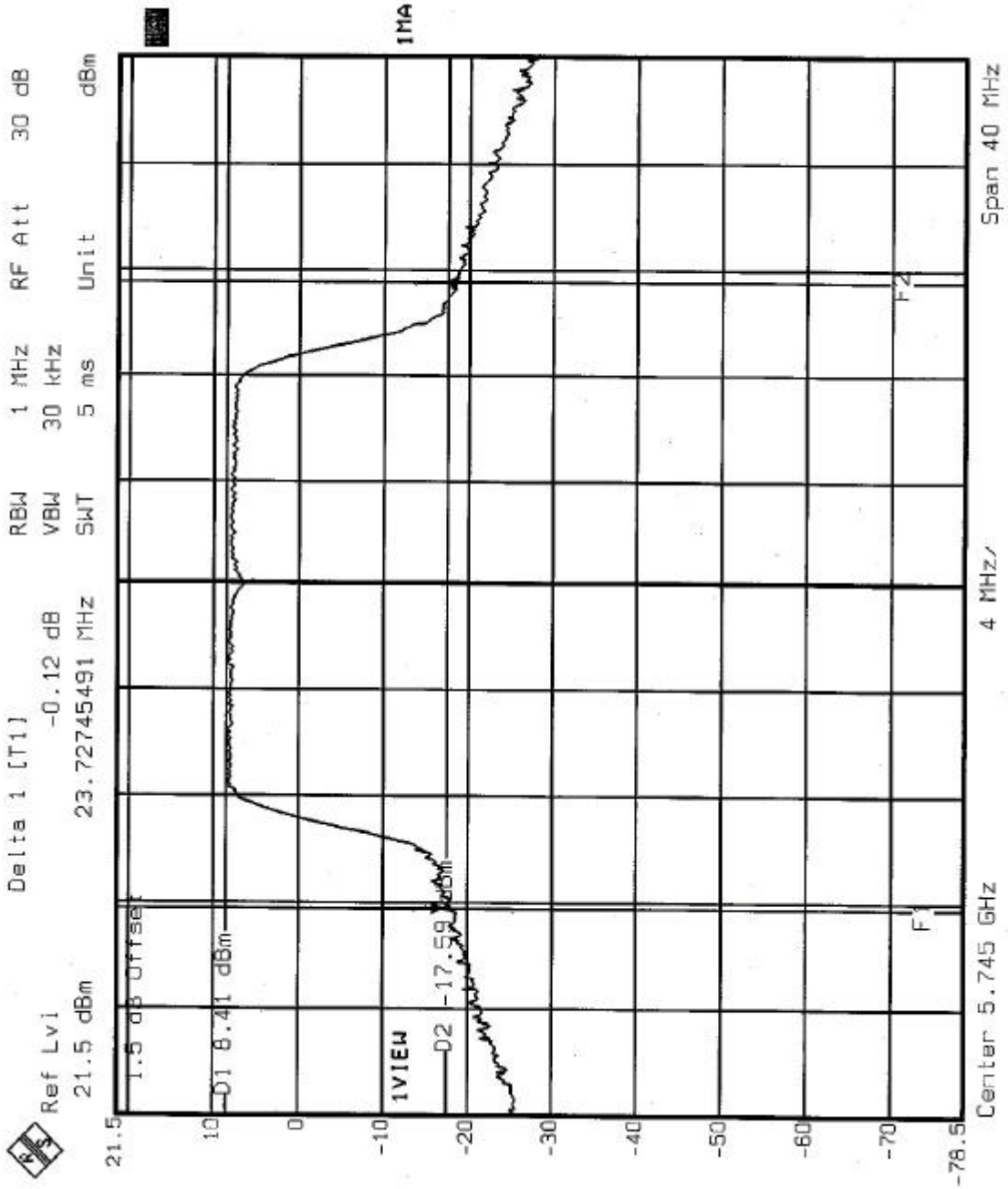
CHANNEL 5


Delta 1 [T1]
-0.26 dB
28.13627255 MHz
Ref Lvl
21.5 dBm
1.5 dB Offset
D1 8.71 dBm
RBW 1 MHz
VBW 30 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1 [T1] -16.95 dBm
5.24609218 GHz
1 [T1] -0.26 dB
28.13627255 MHz
1MA
1VIEW
D2
F1
F2
Span 40 MHz
4 MHz/
Center 5.26 GHz
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5

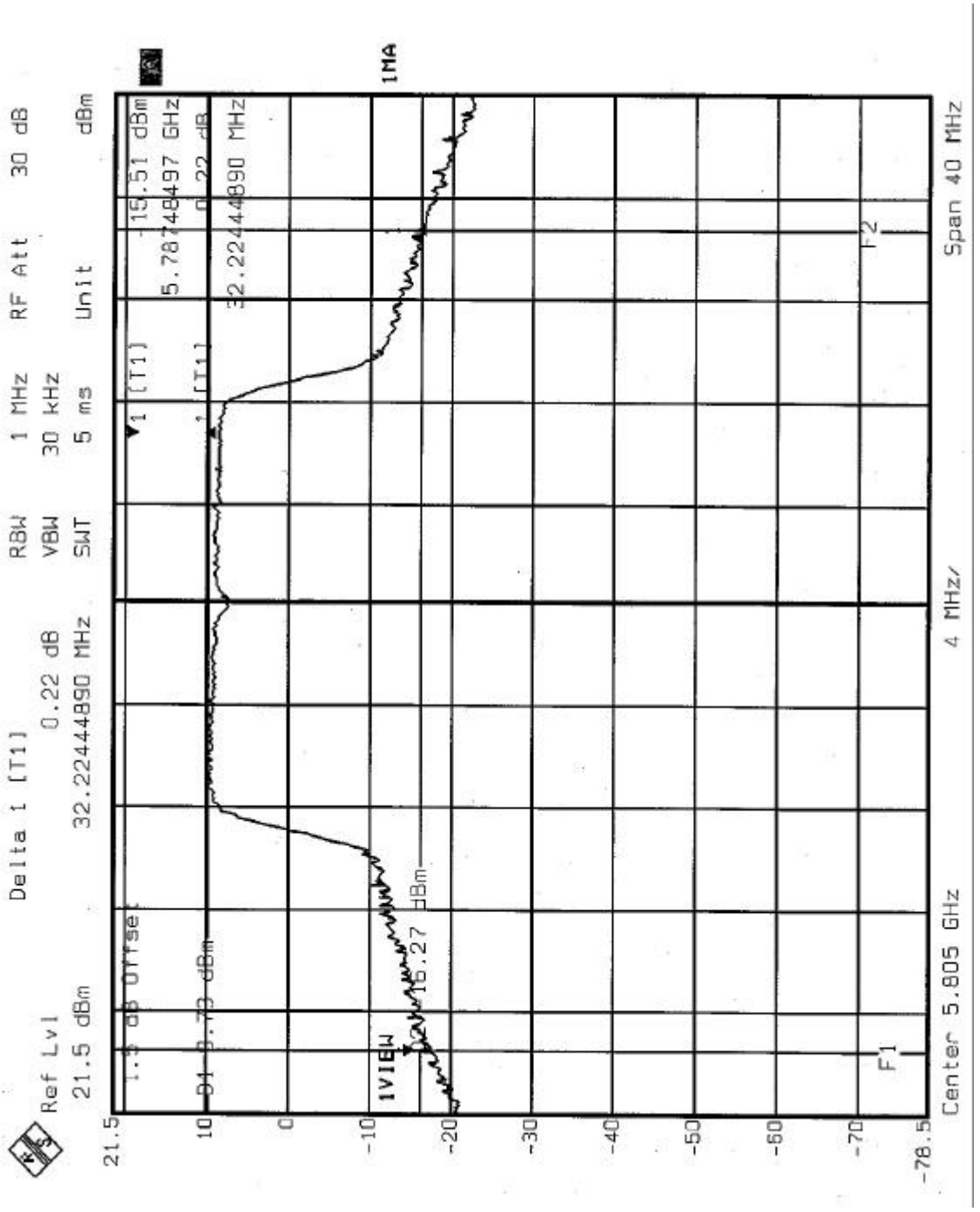
CHANNEL 8


Ref Lvl
21.5 dBm
1.5 dB Offset
Delta 1 [T1]
-0.10 dB
24.76953908 MHz
RBW 1 MHz
VBW 30 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1MA
D1 3.98 dBm
1VIEW
D2 -22.02 dBm
F1
Center 5.32 GHz
4 MHz/
Span 40 MHz
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5

CHANNEL9


Ref Lvl
21.5 dBm
1.5 dB Offset
D1 8.41 dBm
Delta 1 [T1]
-0.12 dB
23.72745491 MHz
RBW 1 MHz
VBW 30 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1MA
1VIEW
D2 -17.59 dBm
Center 5.745 GHz
4 MHz/
Span 40 MHz
F1
F2
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5

CHANNEL 12

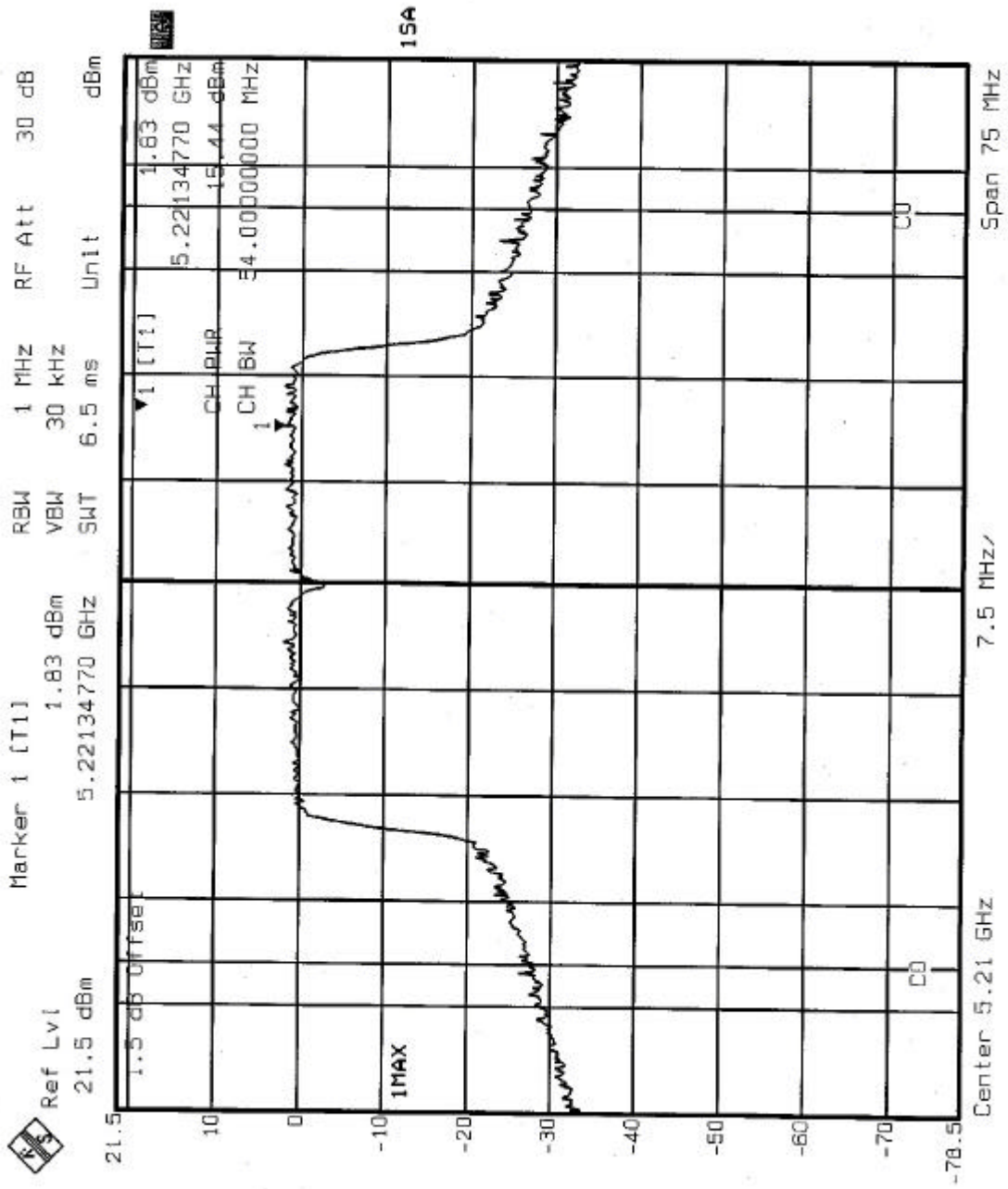

Ref Lvl
21.5 dBm
Delta 1 [T1]
0.22 dB
32.22444890 MHz
RBW 1 MHz
VBW 30 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1MA
1VIEW
F1
F2
Center 5.805 GHz
4 MHz/
Span 40 MHz

EUT	WLAN Access Point 2220	**MODEL**	WLAN Access Point 2220
MODE	Turbo	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20eg. C, 60RH, 976 hPa	**TESTED BY**	Hank Chung

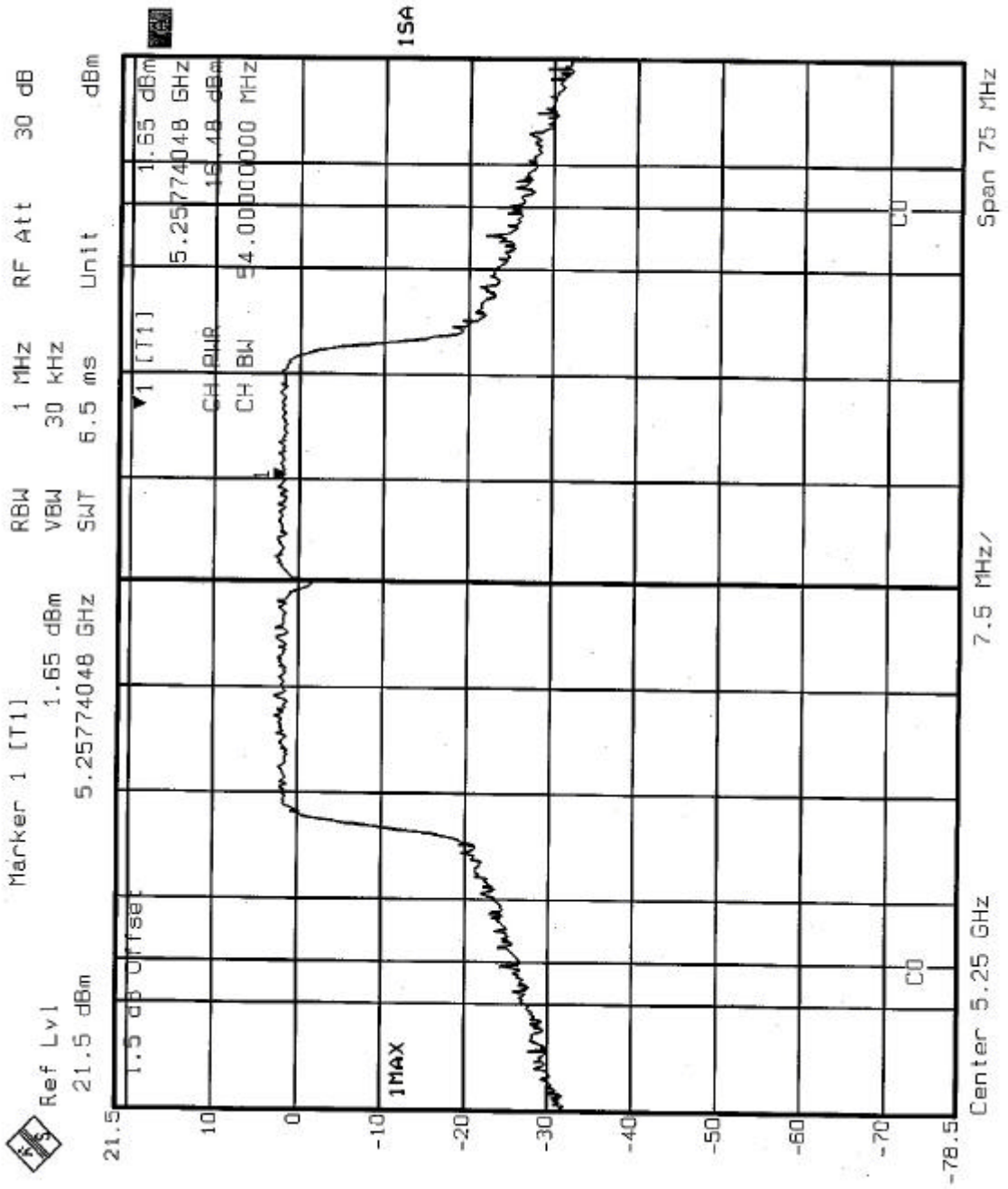
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
1	5210	15.44	17.00	47.61	PASS
2	5250	16.48	24.00	47.13	PASS
3	5290	15.34	24.00	49.37	PASS
4	5760	19.23	30.00	49.05	PASS
5	5800	17.80	30.00	49.69	PASS

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

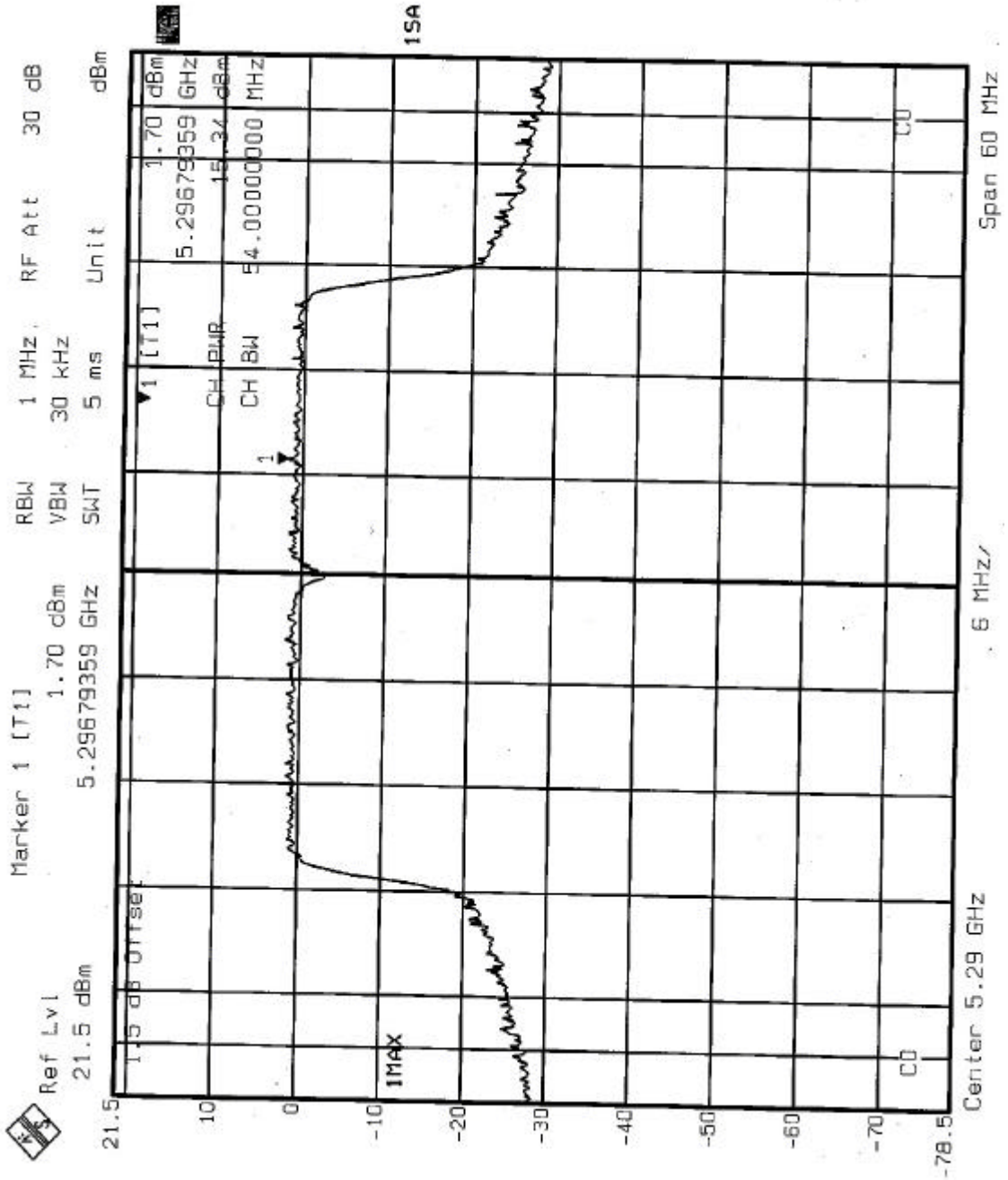
CHANNEL 1


Ref Lvl
21.5 dBm
1.5 dB Offset
Marker 1 [T1]
1.83 dBm
5.22134770 GHz
RBW 1 MHz
VBW 30 kHz
SWT 6.5 ms
RF Att 30 dB
Unit dBm
1 [T1]
CH PWR 1.83 dBm
5.22134770 GHz
CH BW 15.44 dBm
34.00000000 MHz
1SA
1MAX
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5
Center 5.21 GHz
7.5 MHz/
Span 75 MHz

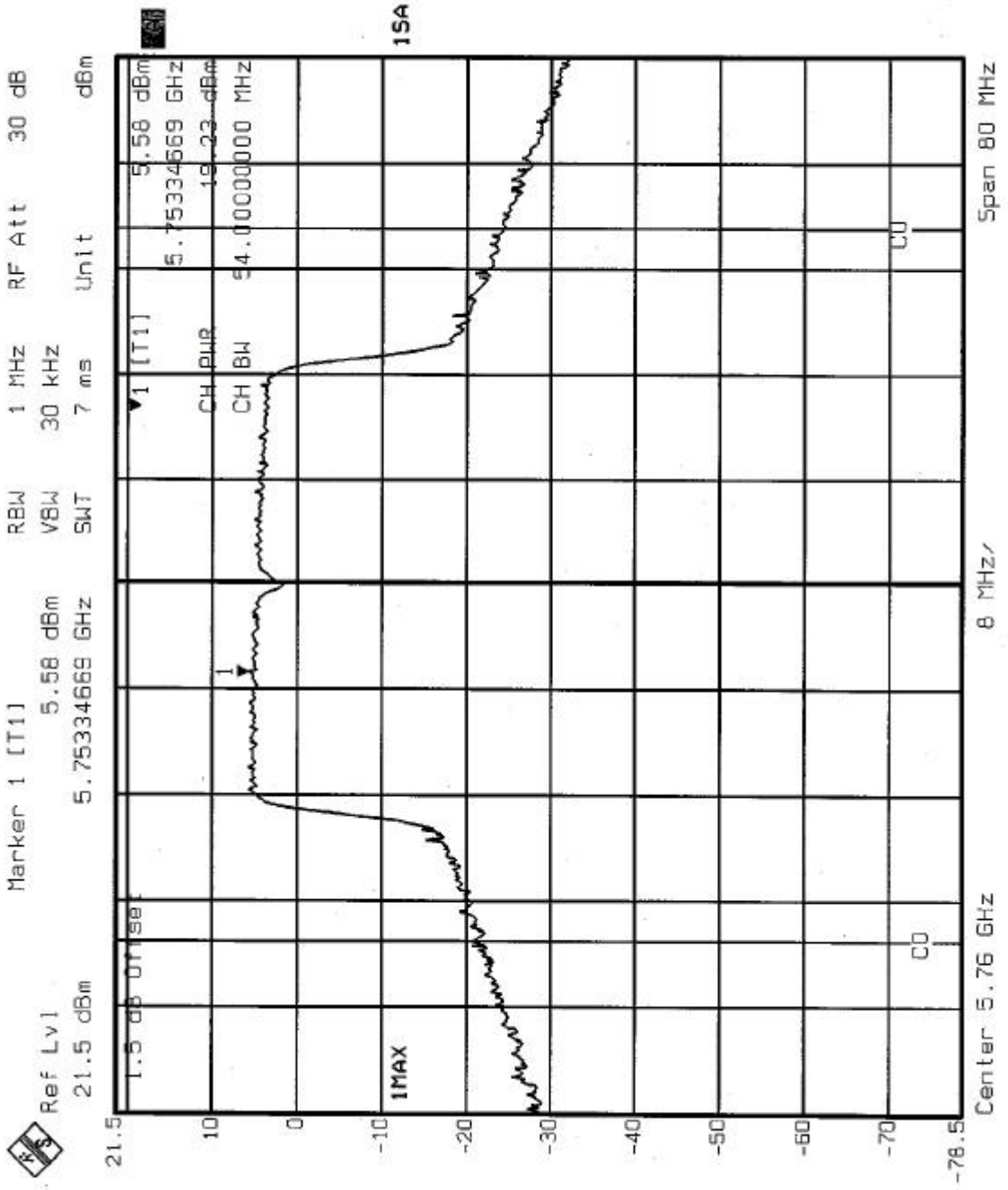
CHANNEL 2


Ref Lvl
21.5 dBm
1.5 dB Offset
Marker 1 [T1]
1.65 dBm
5.25774048 GHz
RBW 1 MHz
VBW 30 kHz
SWT 6.5 ms
RF Att 30 dB
Unit dBm
1 [T1]
1.65 dBm
5.25774048 GHz
CH PWR 16.48 dBm
CH BW 54.00000000 MHz
1SA
1MAX
CO
Center 5.25 GHz
7.5 MHz/
Span 75 MHz
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5

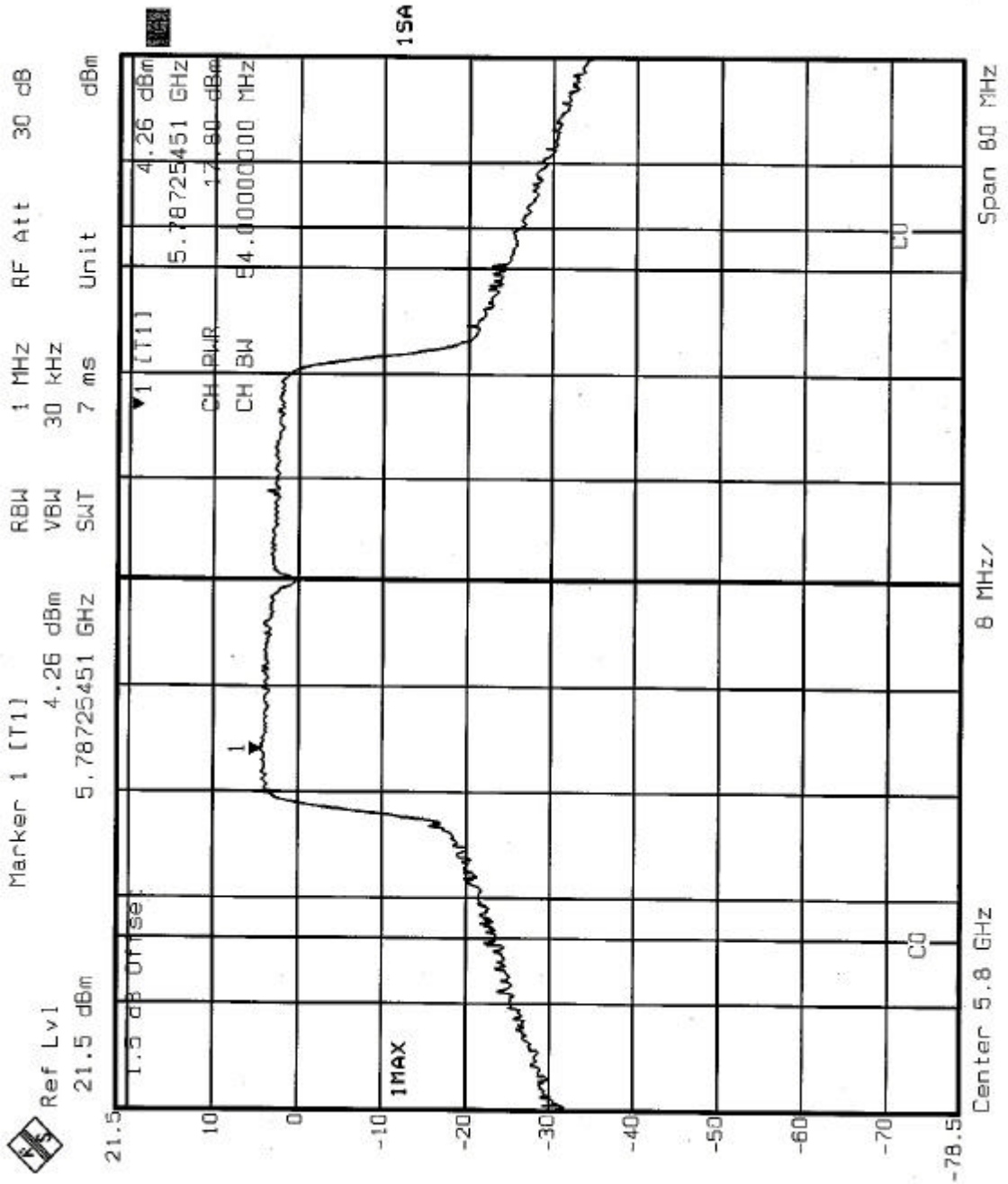
CHANNEL 3


Ref Lvl
21.5 dBm
1.5 dB Offset
Marker 1 [T1]
1.70 dBm
5.29679359 GHz
RBW 1 MHz
VBW 30 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1 [T1]
CH PWR 1.70 dBm
CH BW 5.29679359 GHz
54.00000000 MHz
1SA
1MAX
CO
Center 5.29 GHz
6 MHz/
Span 60 MHz

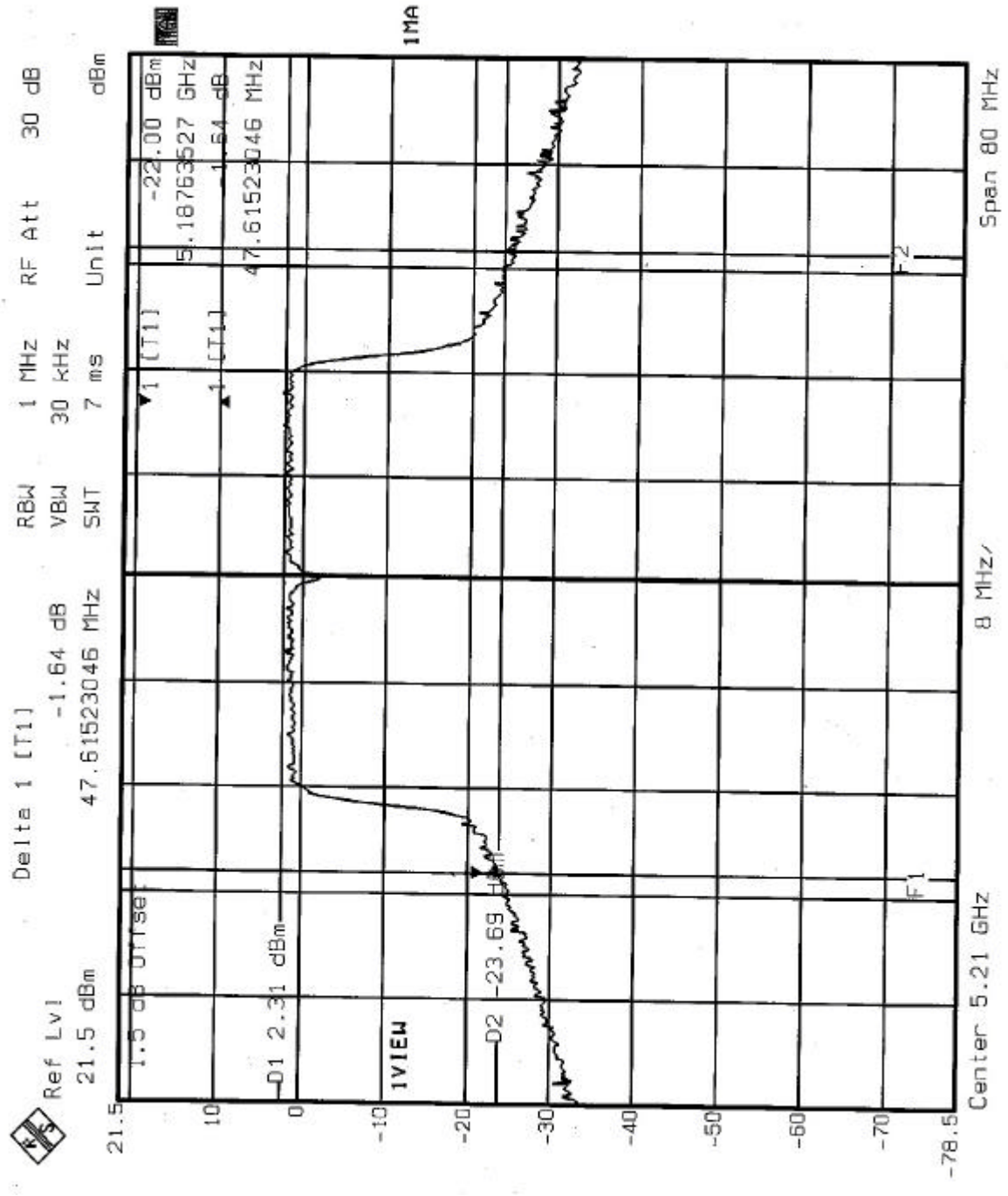
CHANNEL 4


Ref Lvl
21.5 dBm
1.5 dB Offset
Marker 1 [T1]
5.58 dBm
5.7534669 GHz
RBW 1 MHz
VBW 30 kHz
SWT 7 ms
RF Att 30 dB
Unit dBm
1 [T1]
CH PWR 5.58 dBm
CH BW 5.7534669 GHz
4.0000000 MHz
1SA
1MAX
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5
Center 5.76 GHz
8 MHz/
Span 80 MHz

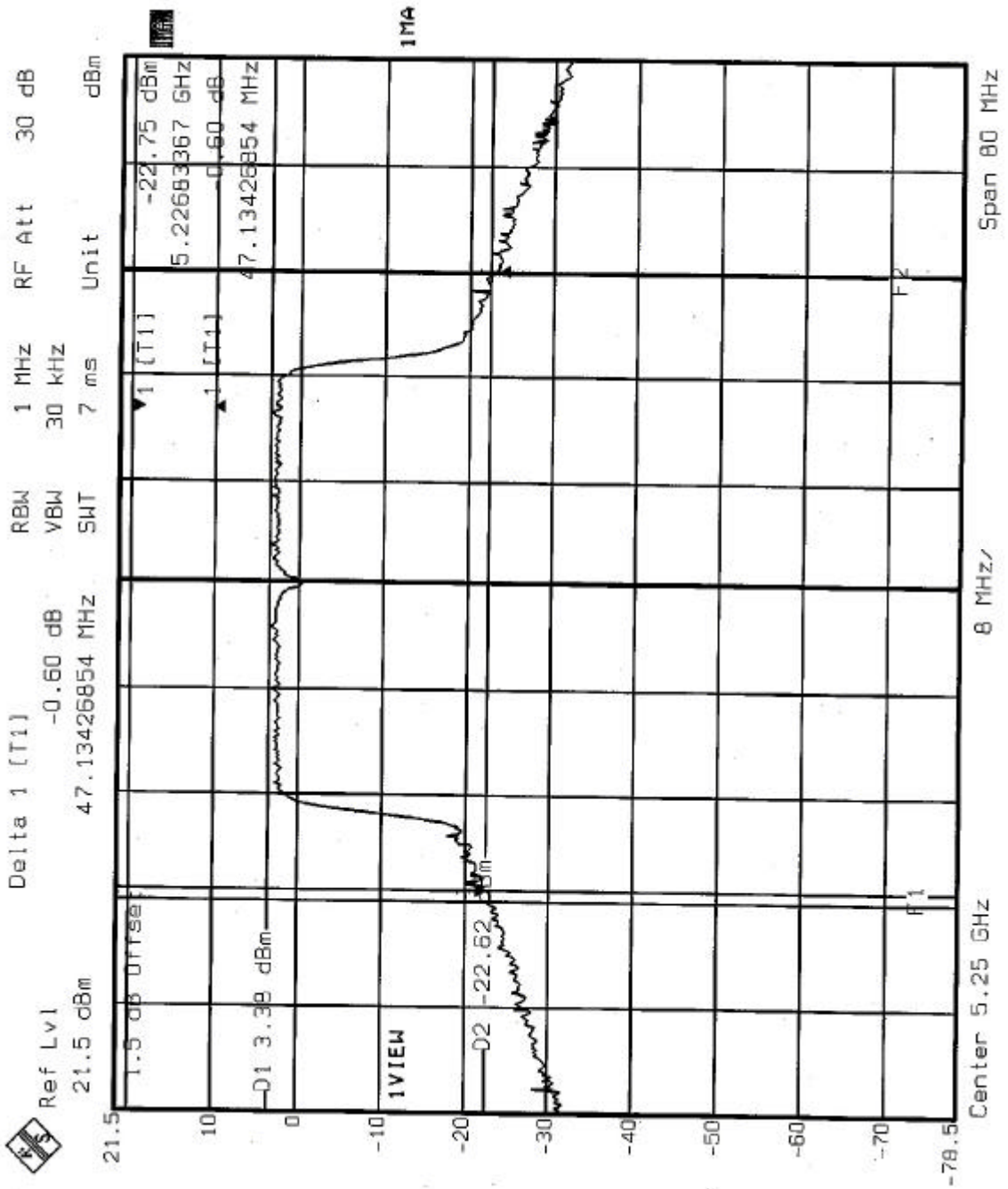
CHANNEL 5


Ref Lvl
21.5 dBm
1.5 dB Offset
Marker 1 [T1]
4.26 dBm
5.78725451 GHz
RBW 1 MHz
VBW 30 kHz
SWT 7 ms
RF Att 30 dB
Unit dBm
1 [T1]
4.26 dBm
5.78725451 GHz
CH PWR 17.80 dBm
CH BW 54.00000000 MHz
1SA
1MAX
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5
Center 5.8 GHz
8 MHz/
Span 80 MHz

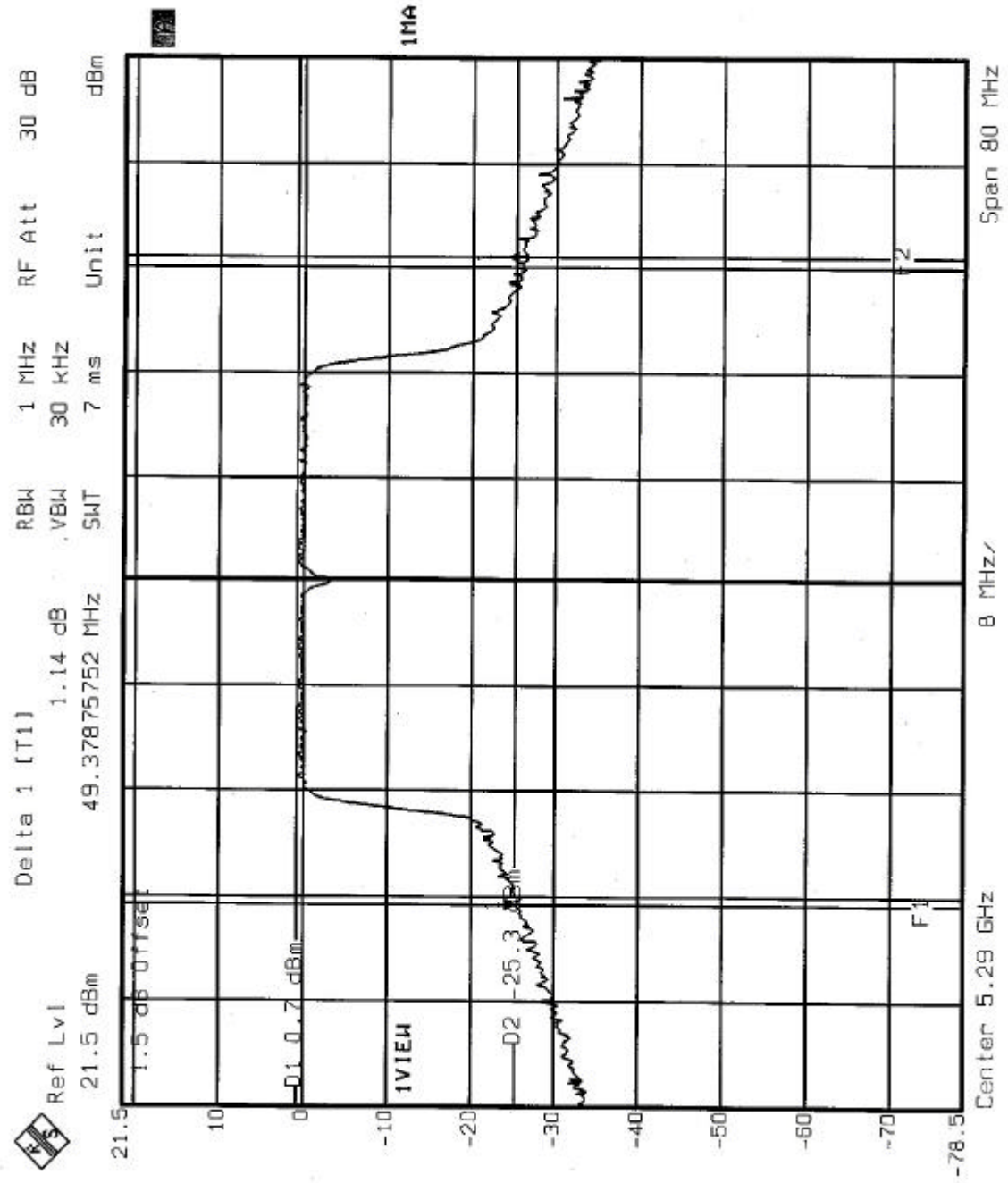
CHANNEL 1


Ref Lvl
21.5 dBm
1.5 dB Offset
Delta 1 [T1]
-1.64 dB
47.61523046 MHz
RBW 1 MHz
VBW 30 kHz
SWT 7 ms
RF Att 30 dB
Unit dBm
1 [T1] -22.00 dBm
5.18763527 GHz
1 [T1] -1.64 dB
47.61523046 MHz
1MA
D1 2.31 dBm
D2 -23.69 dBm
1VIEW
F1
F2
Center 5.21 GHz
8 MHz/
Span 80 MHz
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5

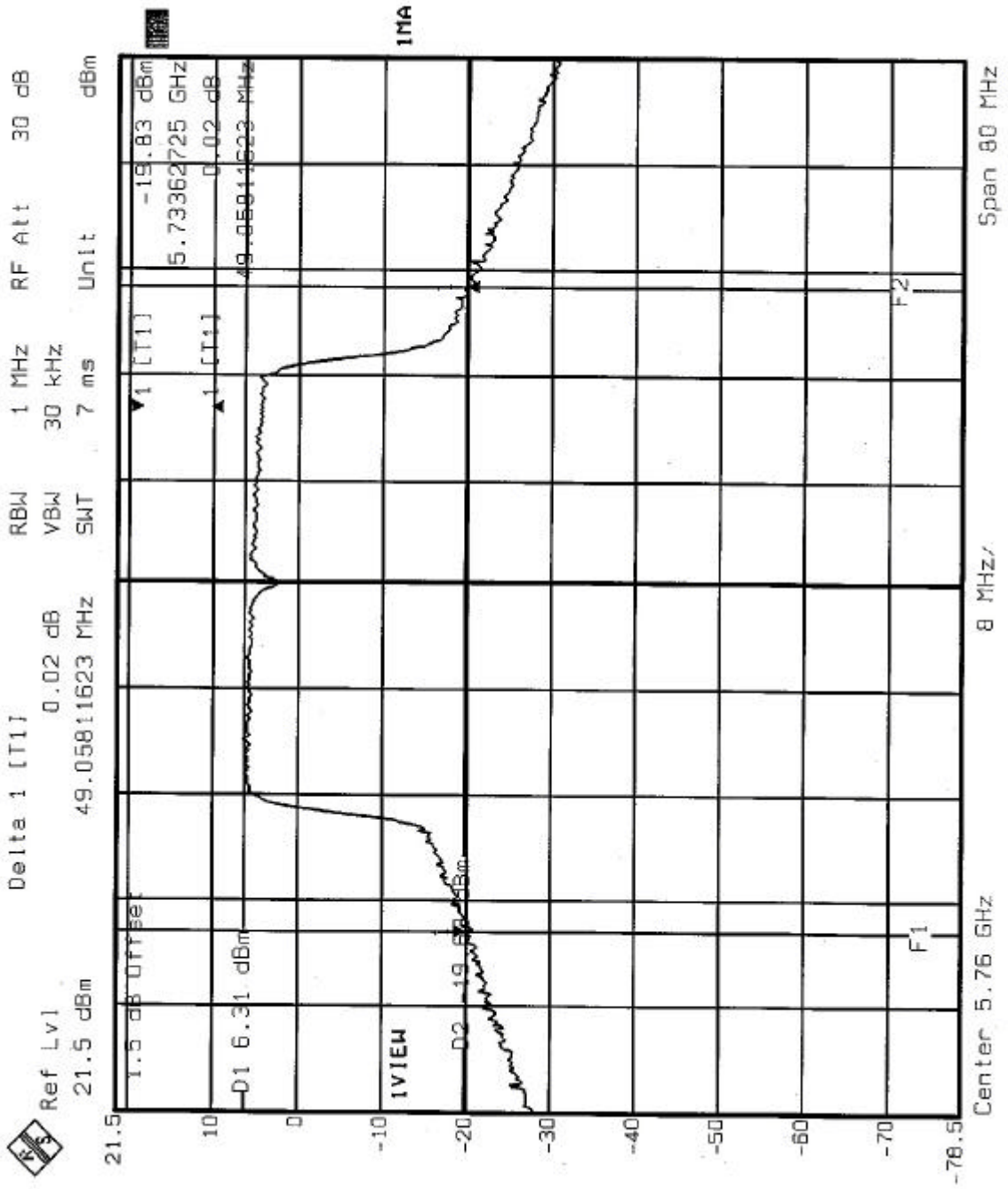
CHANNEL 2


Ref Lvl
21.5 dBm
1.5 dB Offset
D1 3.39 dBm
D2 -22.62 dBm
1VIEW
Delta 1 [T1]
-0.60 dB
47.13426854 MHz
RBW 1 MHz
VBW 30 kHz
SWT 7 ms
RF Att 30 dB
Unit dBm
1 [T1] -22.75 dBm
5.22683367 GHz
1 [T1] -0.60 dB
47.13426854 MHz
1MA
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5
Center 5.25 GHz
8 MHz/
Span 80 MHz
F1
F2

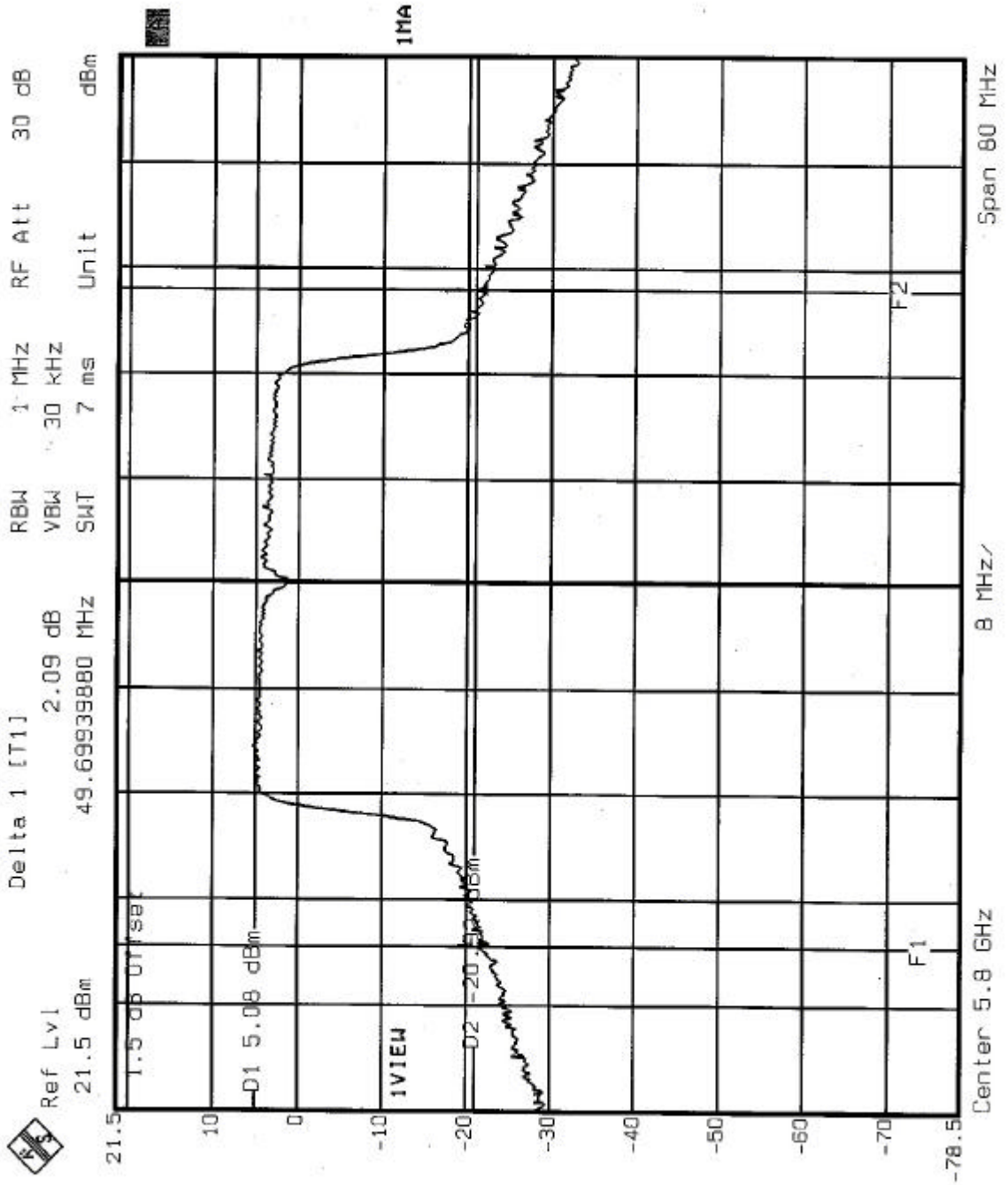
CHANNEL 3


Ref Lvl
21.5 dBm
1.5 dB Offset
Delta 1 [T1]
1.14 dB
49.37875752 MHz
RBW 1 MHz
VBW 30 kHz
SWT 7 ms
RF Att 30 dB
Unit dBm
1MA
1VIEW
D1 0.7 dBm
D2 -25.3 dBm
F1
F2
Center 5.29 GHz
8 MHz/
Span 80 MHz
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5

CHANNEL 4


Ref Lvl
21.5 dBm
Delta 1 [T1]
0.02 dB
49.05811623 MHz
RBW 1 MHz
VBW 30 kHz
SWT 7 ms
RF Att 30 dB
Unit dBm
1MA
1VIEW
1.5 dB Offset
D1 6.31 dBm
D2 -19.83 dBm
1 [T1] -19.83 dBm
5.73362725 GHz
1 [T1] 0.02 dB
49.05811623 MHz
F1
F2
Center 5.76 GHz
8 MHz/
Span 80 MHz
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5

CHANNEL 5


Delta 1 [T1]
2.09 dB
49.69939880 MHz
Ref Lvl
21.5 dBm
1.5 dB Offset
D1 5.08 dBm
D2 -20.00 dBm
RBW 1 MHz
VBW 30 kHz
SWT 7 ms
RF Att 30 dB
Unit dBm
1MA
1VIEW
F1
F2
Center 5.8 GHz
8 MHz/
Span 80 MHz
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5

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
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

NOTE:

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

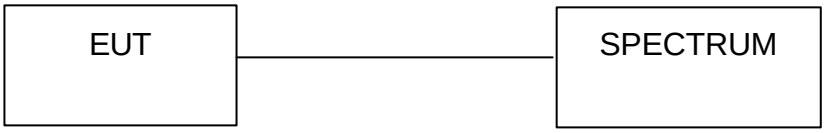
5.4.3 TEST PROCEDURE

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

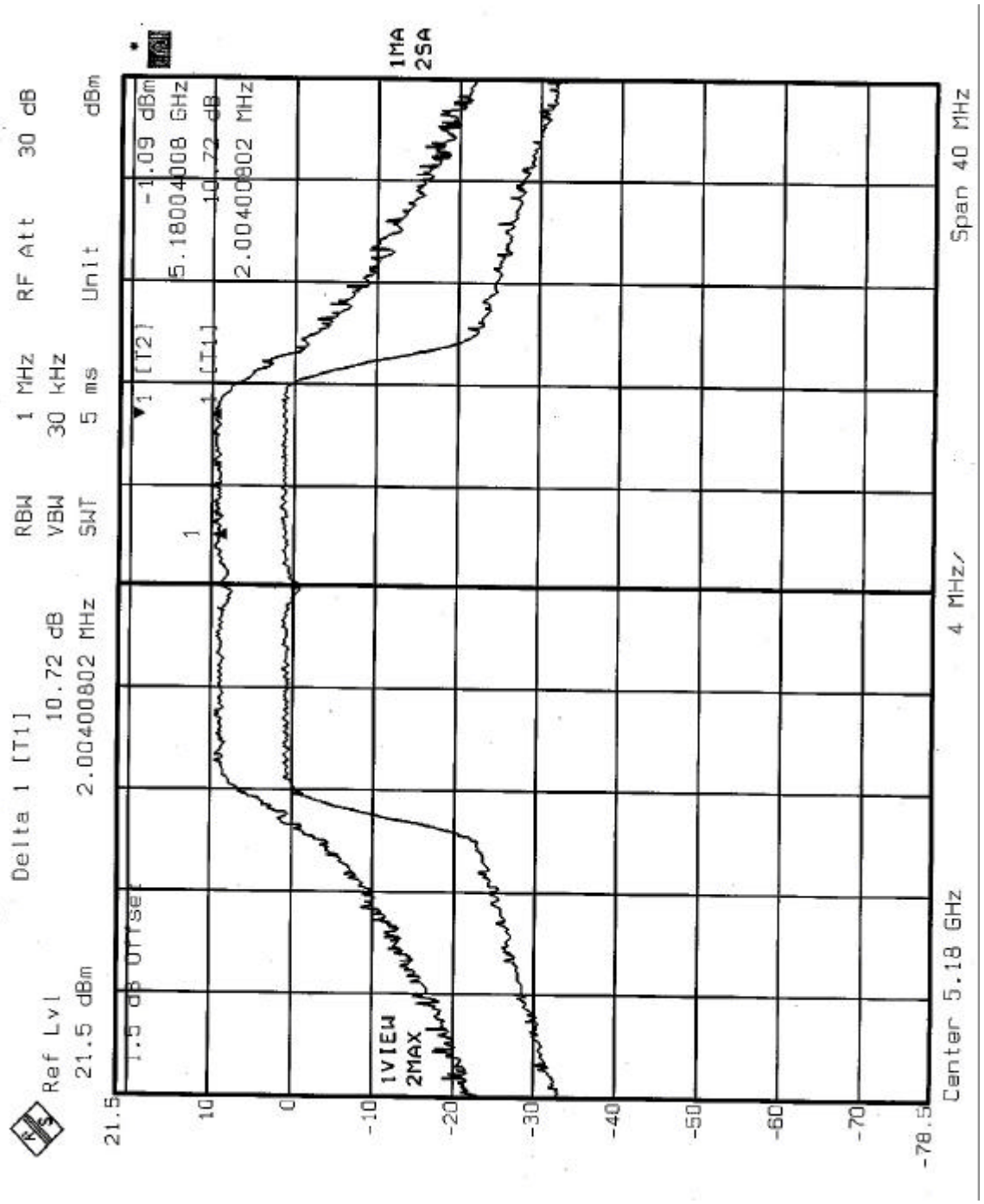
The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

5.4.7 TEST RESULTS

EUT	WLAN Access Point 2220	**MODEL**	WLAN Access Point 2220
MODE	Normal	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20eg. C, 60RH, 976 hPa	**TESTED BY**	Hank Chung

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
1	5180	10.72	13	PASS
4	5240	10.64	13	PASS
5	5260	10.38	13	PASS
8	5320	11.08	13	PASS
9	5745	10.72	13	PASS
12	5805	10.84	13	PASS

CHANNEL 1


Ref Lvl
21.5 dBm
1.5 dB Offset
Delta 1 [T1]
10.72 dB
2.00400802 MHz
RBW 1 MHz
VBW 30 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1 [T2]
-1.09 dBm
5.18004008 GHz
1 [T1]
10.72 dB
2.00400802 MHz
1MA
2SA
1VIEW
2MAX
21.5
10
0
-10
-20
-30
-40
-50
-60
-70
-78.5
Center 5.18 GHz
4 MHz/
Span 40 MHz