.2 6 dB RF Bandwidth, FCC Rule 15.247(a)(2):

Requirements

The minimum 6 dB bandwidth shall be at least 500 kHz

Procedure

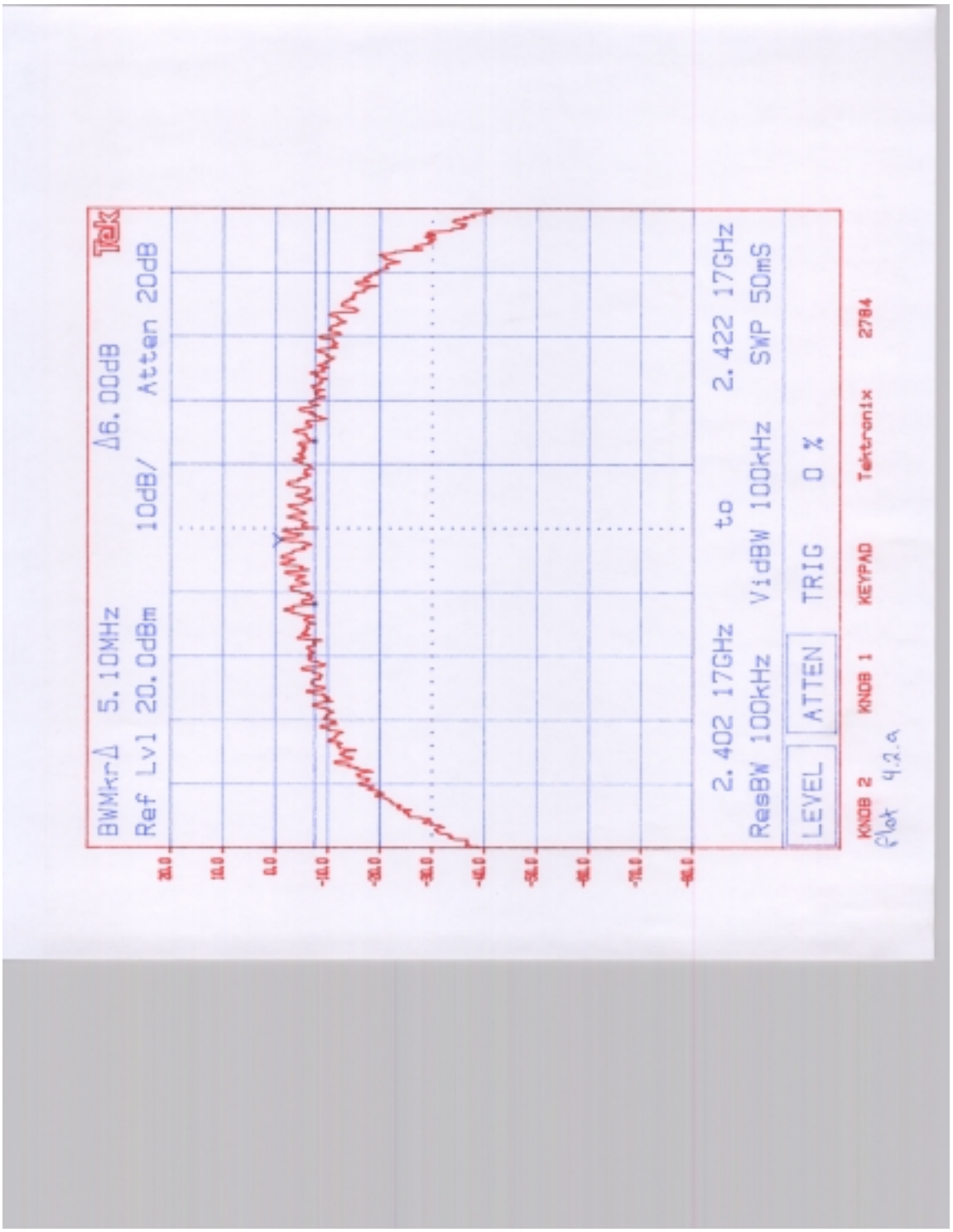
The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than EAK level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

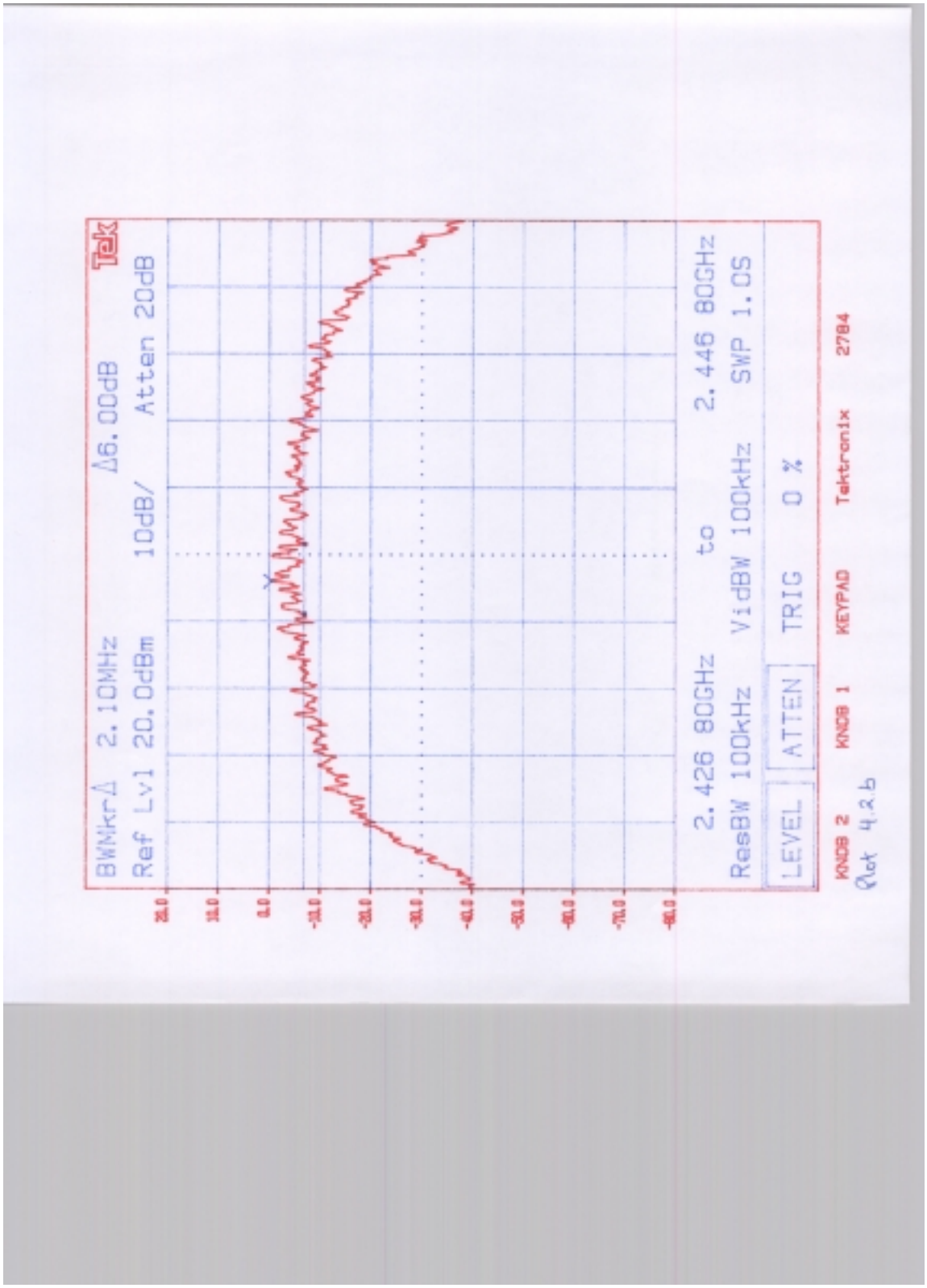
Test Result

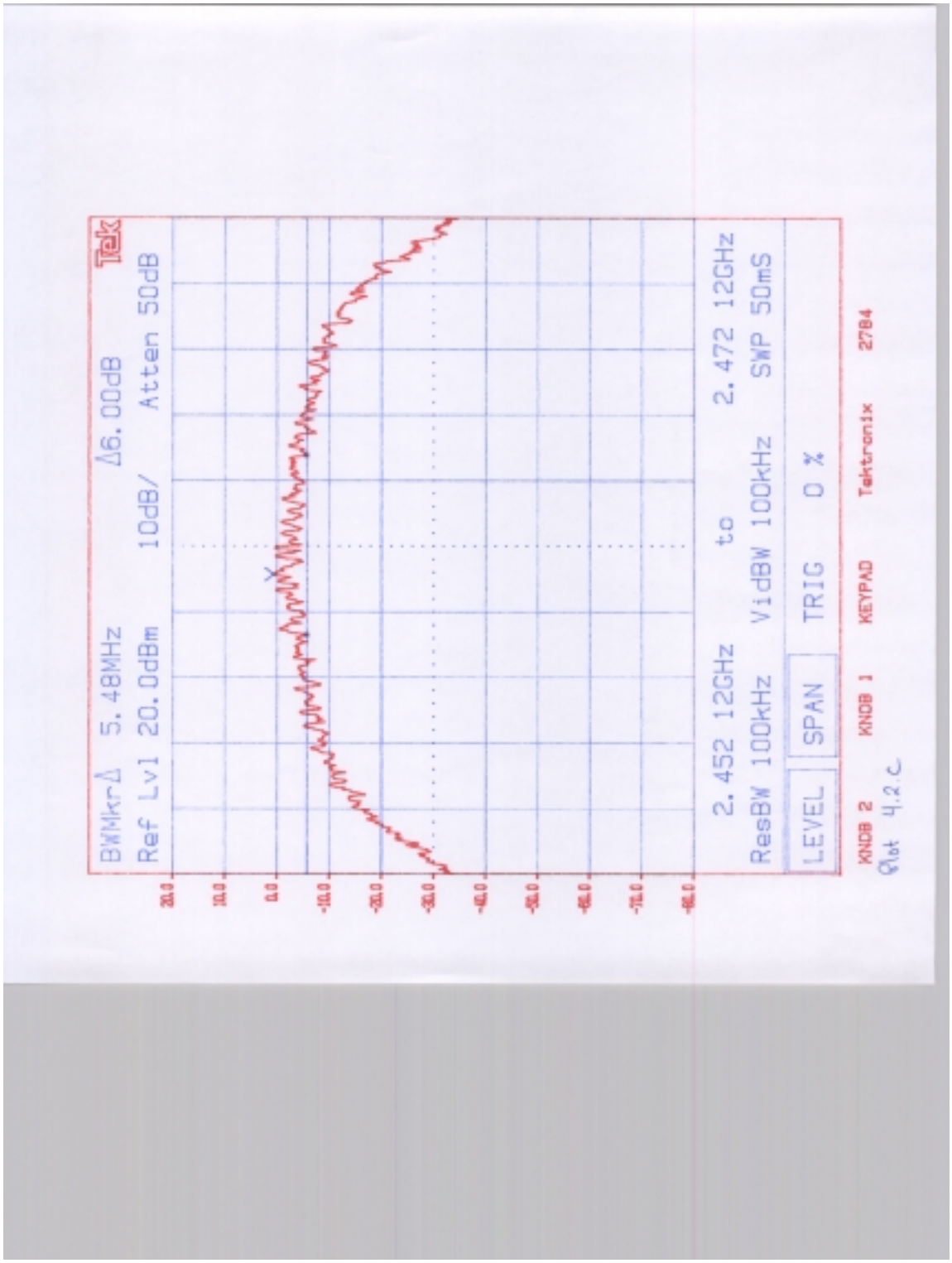
Frequency (MHz)	**Min. 6 dB Bandwidth (MHz)**
2427	10.1

Refer to the following plots for 6 dB RF bandwidth:
Plot 4.2.a: Low Channel 6 dB RF Bandwidth
Plot 4.2.b: Middle Channel 6 dB RF Bandwidth
Plot 4.2.c: High Channel 6 dB RF Bandwidth

Note: The bandwidth is 10.1MHz for all data rates: 1, 2, 5.5, 11Mbps. Since the chip rate is the same for all data rate operations. This chip rate is combined with coding, I_Q_modulation, and spreading scheme.


Tek
BWMkr Δ 5.10MHz
Ref Lvl 20.0dBm
Δ6.00dB
10dB/ Atten 20dB
2.402 17GHz to 2.422 17GHz
ResBW 100kHz VidBW 100kHz SWP 50mS
LEVEL ATTEN TRIG 0 %
KNOB 2 KNOB 1 KEYPAD Tektronix 2784


BWMkrΔ 2.10MHz
Ref Lvl 20.0dBm
Δ6.00dB
10dB/
Atten 20dB
2.426 80GHz
to
2.446 80GHz
ResBW 100kHz
VidBW 100kHz
SWP 1.0S
LEVEL
ATTEN
TRIG
0 %
KNOB 2
KNOB 1
KEYPAD
Tektronix
2784
Plot 4.2.b


BWMkr Δ 5.48MHz
Ref Lvl 20.0dBm
Δ6.00dB
10dB/
Atten 50dB
Tek
2.452 12GHz
to
2.472 12GHz
ResBW 100kHz
VidBW 100kHz
SWP 50mS
LEVEL
SPAN
TRIG
0 %
KNOB 2
KNOB 1
KEYPAD
Tektronix
2784
Plot 4.2.c