

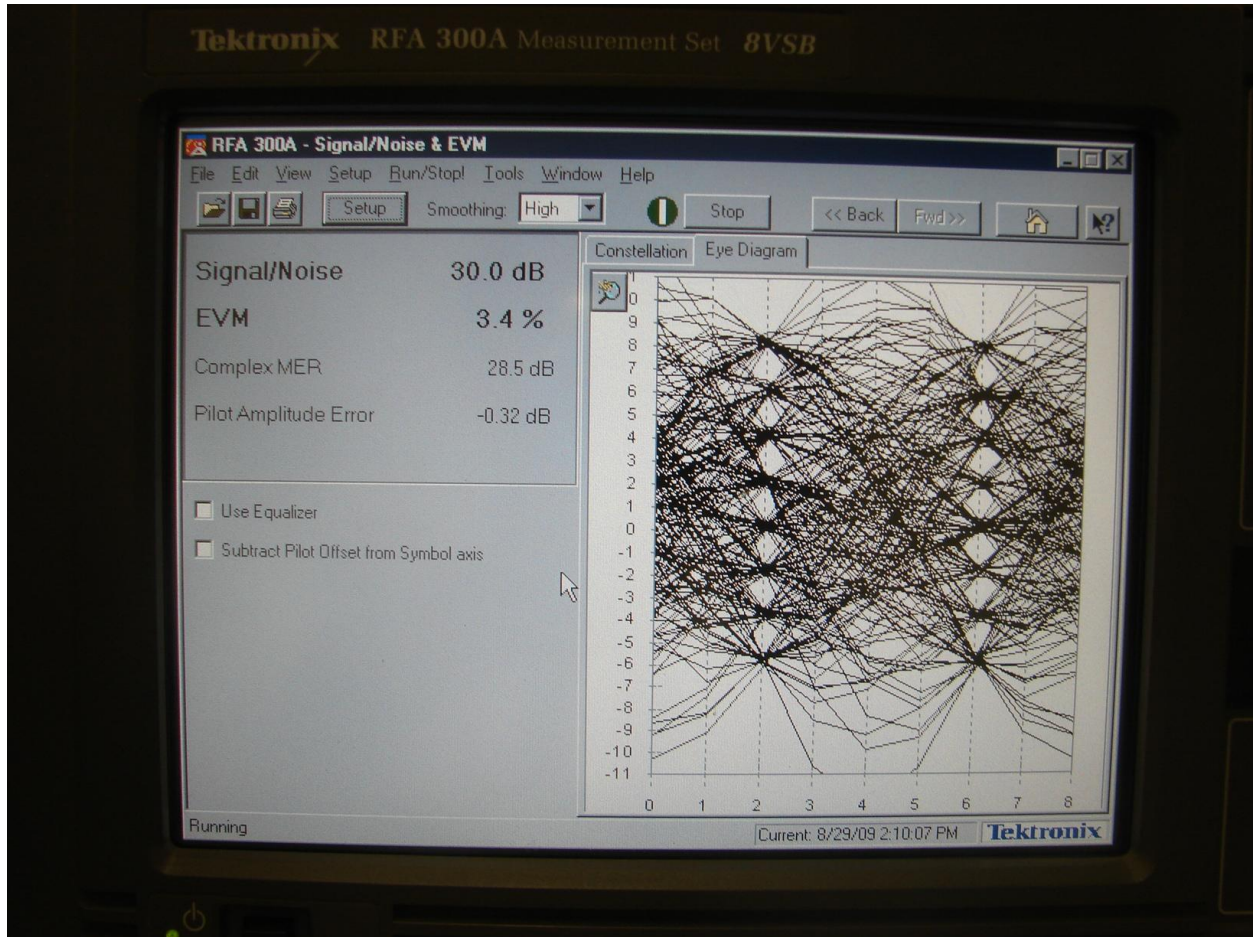


Measurements on
50 Watt
VHF Digital DTV Transmitter
Model AT650P



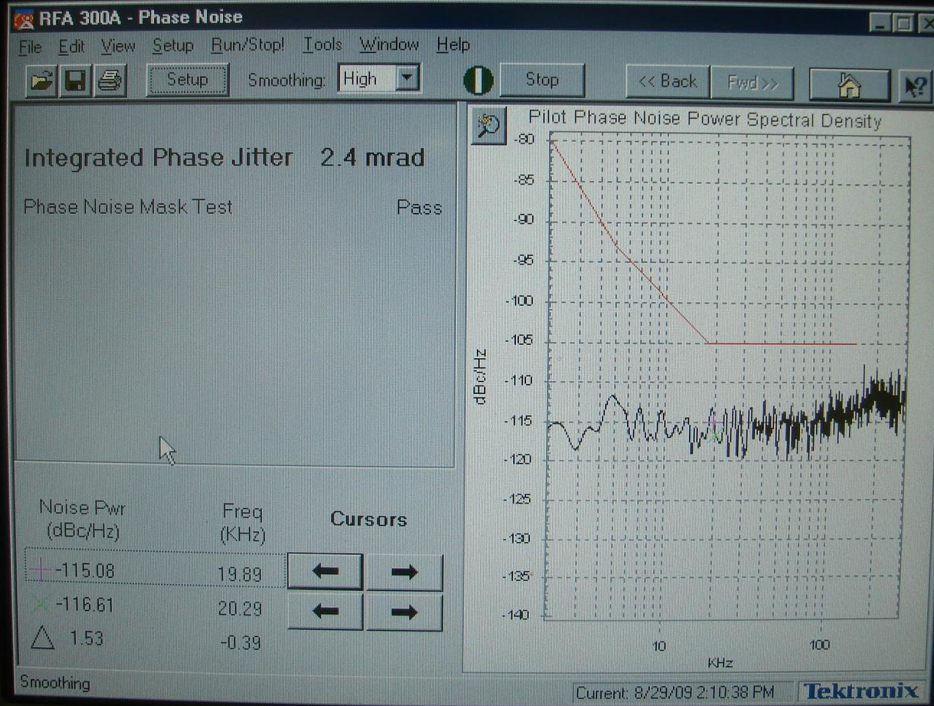
RF Power Output Measurement

In Channel Signal Characterization



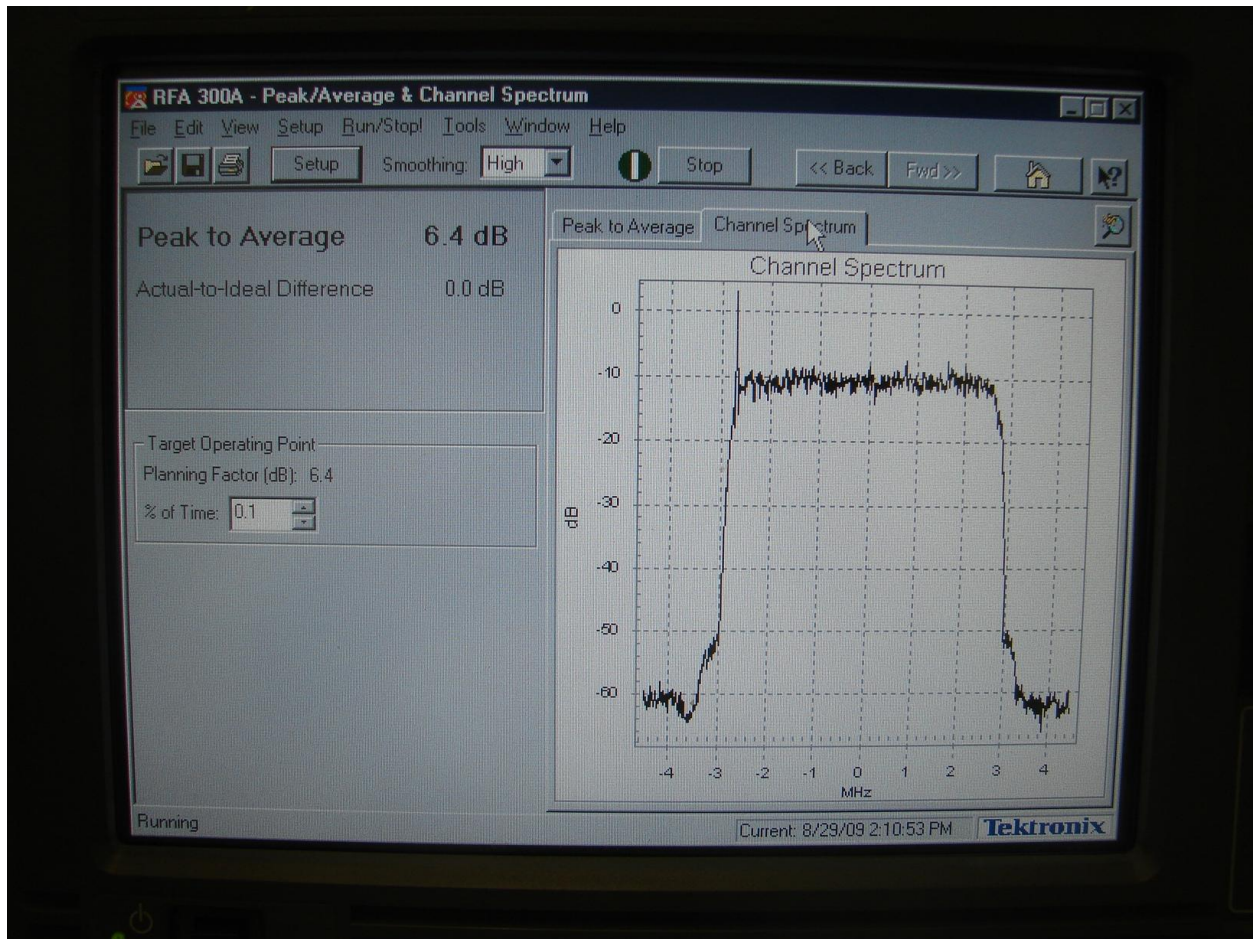
Eye Diagram

Tektronix RFA 300A Measurement Set BVS8

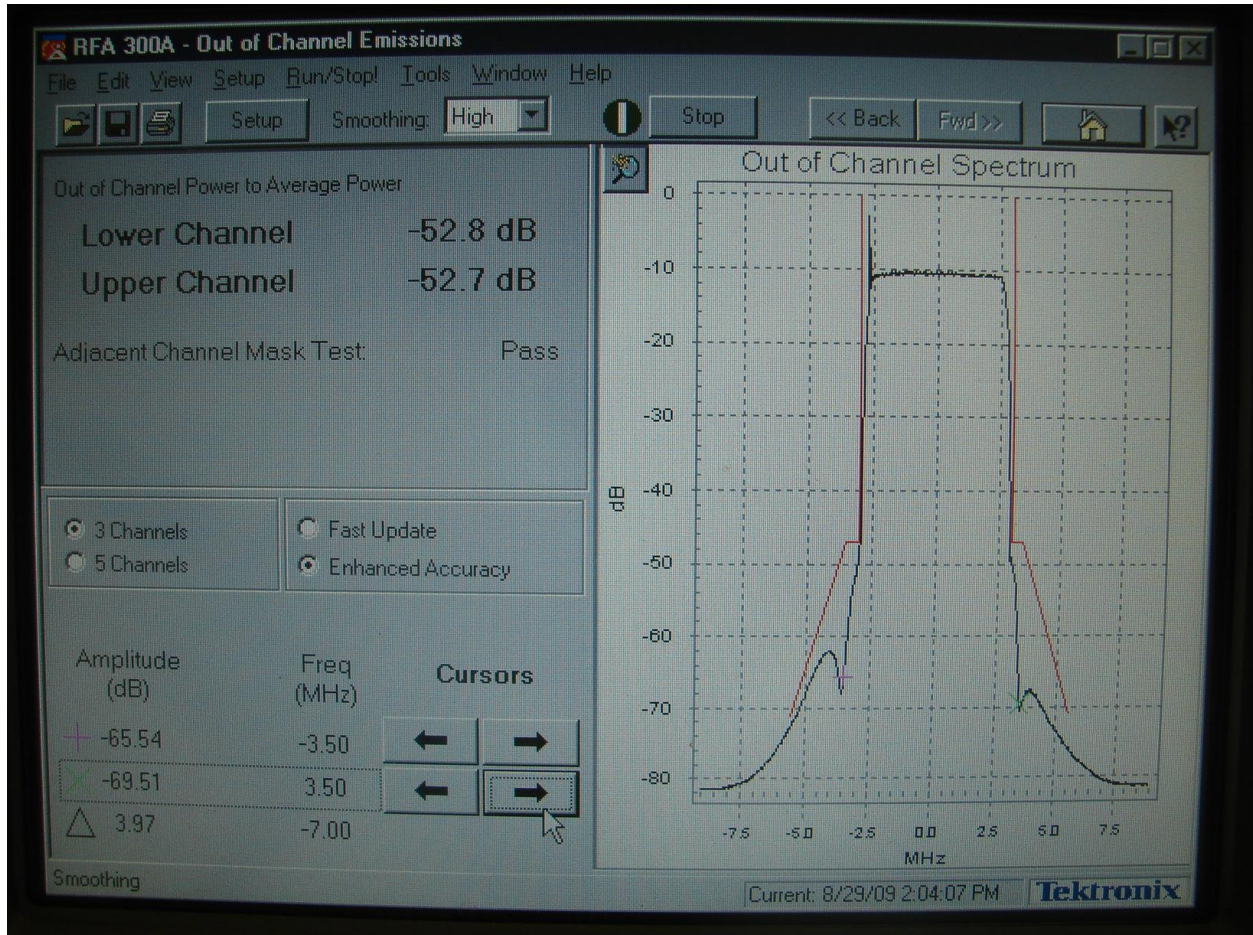


Phase Noise

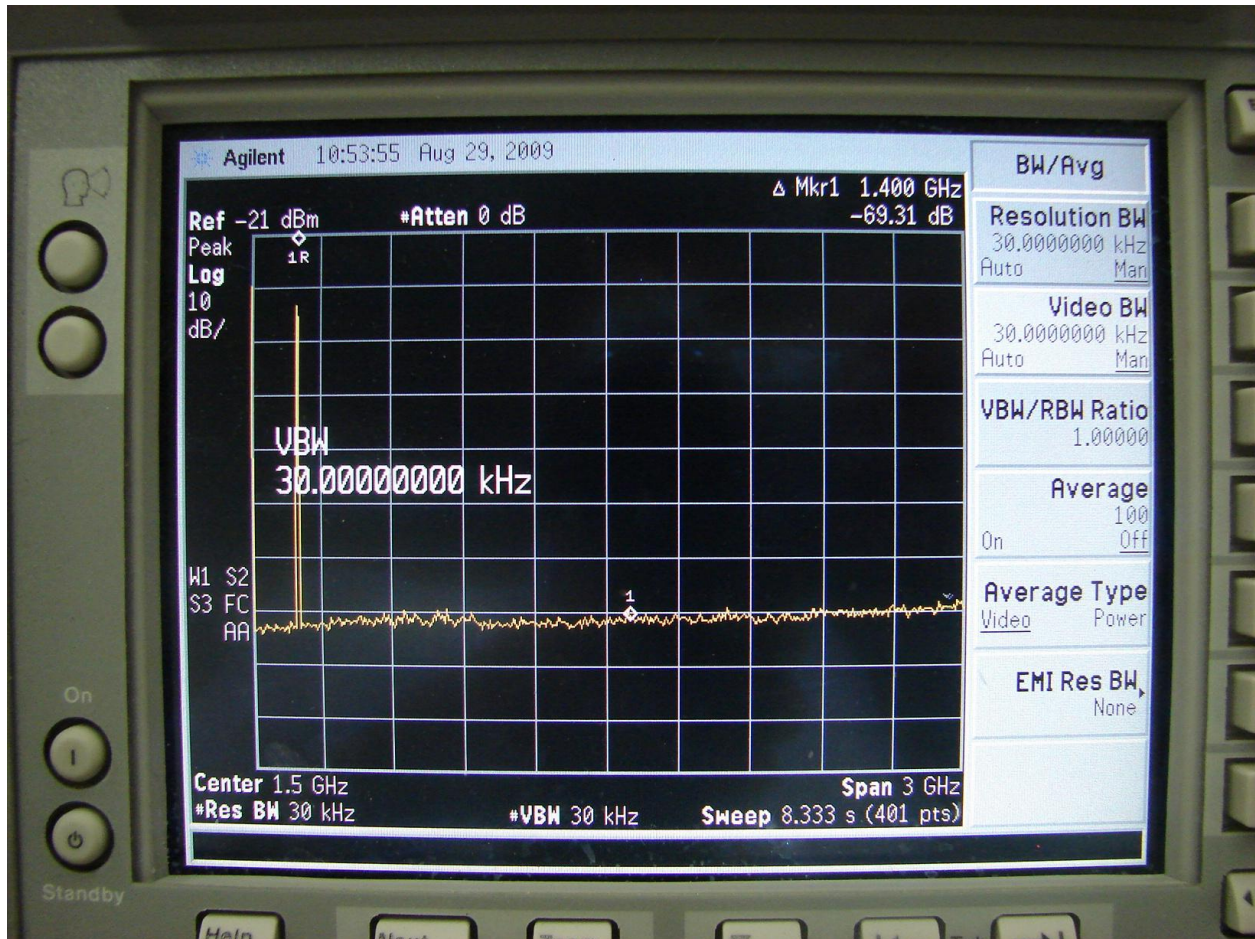
In Channel Spectrum



Adjacents Channel Spectrum



Harmonic and Spurious



Frequency Stability

Ref.: CH11 - Pilot Carrier: 217,142,830 Hz

Temperature [°C]	Frequency [Hz]	Offset [Hz]
-5	217,143,327	497
0	217,143,158	328
+10	217,143,114	284
+20	217,142,996	166
+30	217,142,947	117
+40	217,142,900	70
+50	217,142,884	54

Frequency Stability versus Temperature

Ref.: CH11 - Pilot Carrier: 217,142,830 Hz

Line Voltage [Vac]	Frequency [Hz]	Offset [Hz]
171	217,142,829	-1
208	217,142,829	-1
245	217,142,829	-1

Frequency Stability versus Line Voltage

Test Equipment

Model	Manufacturer	Description	Serial #
E4402B	Agilent	Spectrum Analyzer	US40241297
E4418B	Agilent	Power Meter	US38470909
RFA300A	Tektronix	Signal Analyzer	B020427
E5061A	Agilent	Network Analyzer	MY44100591