

Test Location: CKC Laboratories, Inc. • 1653 Los Viboras Rd., Site A • Hollister, Ca 95023 • (831) 637-0485

Customer: **Davis Instruments**

Specification: **FCC 15.249(a)**

Work Order #: **72312**

Date: Fri Aug-06-1999

Test Type: **Maximized Emissions**

Time: 13:28:16

Equipment: **Weather Data Telemetry**

Sequence#: 3

Manufacturer: Davis Instruments

Tested By: Wes Norris

Model: 6230

S/N: Prototype

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Weather Data Telemetry*	Davis Instruments	6230	Prototype
Wind Vane and Anemometer	Davis Instruments	TBD	Prototype
Rain Collector	Davis Instruments	TBD	Prototype
AC Adaptor	Davis Instruments	TBD	Prototype

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

The EUT is fully operational, with Wind Vane and Rain Collector connected. The EUT is transmitting in its normal mode of operation, at full power. The carrier is fully modulated, and transmitting for 12.5 milli-seconds each 2.5 seconds. The EUT is receiving its power from the AC Adaptor, which is powered from a 115V/60Hz source. The on time of the transmitter in a 100ms period was measured. This on time divided by the 100ms period is the duty cycle. A 20Log(duty cycle) calculation is then performed and this factor (not to exceed 20dB) is then taken into consideration. This method is specified in CFR 47 Section 15.35(c).

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	.Amp. 15.35 dB	Log31 dB	Bicon dB	cab3 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	916.490M	71.4	-27.3 -20.0	+0.0	+23.5	+6.8	+0.0	54.4	93.9	-39.5	Vert
2	916.495M Ave	71.4	-27.3 -20.0	+0.0	+23.5	+6.8	+0.0	54.4	93.9	-39.5	Vert
3	916.490M	60.4	-27.3 -20.0	+0.0	+23.5	+6.8	+0.0	43.4	93.9	-50.5	Horiz
4	916.499M Ave	60.4	-27.3 -20.0	+0.0	+23.5	+6.8	+0.0	43.4	93.9	-50.5	Horiz

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Customer: **Davis Instruments**
 Specification: **FCC 15.249(C) / 15.209**
 Work Order #: **72312**
 Test Type: **Maximized Emissions**
 Equipment: **Weather Data Telemetry**
 Manufacturer: Davis Instruments
 Model: 6230
 S/N: Prototype

Date: Mon Oct-25-1999
 Time: 07:41:22
 Sequence#: 2
 Tested By: Wes Norris

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Weather Data Telemetry*	Davis Instruments	6230	Prototype
Wind Vane and Anamometer	Davis Instruments	TBD	Prorotype
Rain Collector	Davis Instruments	TBD	Prototype
AC Adaptor	Davis Instruments	TBD	Prototype

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

The EUT is fully operational, with Wind Vane and Rain Collector connected. The EUT is transmitting continuously, at full power, in CW Mode. The EUT is receiving its power from the AC Adaptor, which is powered from a 115V/60Hz source. The on time of the transmitter in a 100ms period was measured. This on time divided by the 100ms period is the duty cycle. A 20Log(duty cycle) calculation is then performed and this factor (not to exceed 20dB) is then taken into consideration. This method is specified in CFR 47 Section 15.35(c).

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	Horn 15.35 dB	Amp_2 1-12. dB	1-12. dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant	
1	1833.000M See #8 for average	70.9	+26.5 +0.0	-38.6	+0.3	+3.9	+0.0	63.0	54.0	+9.0	Horiz
2	5499.000M See #19 for average	53.5	+34.9 +0.0	-39.9	+0.4	+7.3	+0.0	56.2	54.0	+2.2	Horiz
3	1833.000M See #20 for average	63.6	+26.5 +0.0	-38.6	+0.3	+3.9	+0.0	55.7	54.0	+1.7	Vert
4	6415.500M See #21 for average	50.9	+35.4 +0.0	-40.3	+0.6	+7.9	+0.0	54.5	54.0	+0.5	Vert
5	6415.500M See #22 for average	50.8	+35.4 +0.0	-40.3	+0.6	+7.9	+0.0	54.4	54.0	+0.4	Horiz
6	5499.000M See #24 for average	49.5	+34.9 +0.0	-39.9	+0.4	+7.3	+0.0	52.2	54.0	-1.8	Vert
7	3666.000M	67.1	+32.4 -20.0	-38.9	+0.5	+5.8	+0.0	46.9	54.0	-7.1	Horiz
8	1833.000M Ave	70.9	+26.5 -20.0	-38.6	+0.3	+3.9	+0.0	43.0	54.0	-11.0	Horiz
9	4582.500M	60.8	+32.3 -20.0	-39.7	+0.6	+6.6	+0.0	40.6	54.0	-13.4	Horiz
10	3666.000M	60.3	+32.4 -20.0	-38.9	+0.5	+5.8	+0.0	40.1	54.0	-14.0	Vert

11	9165.000M	50.1	+38.5 -20.0	-39.0	+0.6	+9.4	+0.0	39.6	54.0	-14.4	Vert
12	9165.100M	49.2	+38.5 -20.0	-39.0	+0.6	+9.4	+0.0	38.7	54.0	-15.3	Horiz
13	2749.500M	60.4	+29.7 -20.0	-37.6	+0.4	+5.0	+0.0	37.9	54.0	-16.1	Horiz
14	8248.500M	50.1	+37.6 -20.0	-40.2	+0.8	+9.1	+0.0	37.4	54.0	-16.6	Vert
15	7332.000M	51.0	+36.6 -20.0	-39.2	+0.3	+8.3	+0.0	37.0	54.0	-17.0	Horiz
16	8248.500M	49.7	+37.6 -20.0	-40.2	+0.8	+9.1	+0.0	37.0	54.0	-17.1	Horiz
17	4582.500M	57.1	+32.3 -20.0	-39.7	+0.6	+6.6	+0.0	36.9	54.0	-17.1	Vert
18	7332.000M	50.6	+36.6 -20.0	-39.2	+0.3	+8.3	+0.0	36.6	54.0	-17.4	Vert
19	5499.000M Ave	53.5	+34.9 -20.0	-39.9	+0.4	+7.3	+0.0	36.2	54.0	-17.8	Horiz
20	1833.000M Ave	63.6	+26.5 -20.0	-38.6	+0.3	+3.9	+0.0	35.7	54.0	-18.3	Vert
21	6415.500M Ave	50.9	+35.4 -20.0	-40.3	+0.6	+7.9	+0.0	34.5	54.0	-19.5	Vert
22	6415.500M Ave	50.8	+35.4 -20.0	-40.3	+0.6	+7.9	+0.0	34.4	54.0	-19.6	Horiz
23	2749.500M	55.6	+29.7 -20.0	-37.6	+0.4	+5.0	+0.0	33.1	54.0	-20.9	Vert
24	5499.000M Ave	49.5	+34.9 -20.0	-39.9	+0.4	+7.3	+0.0	32.2	54.0	-21.8	Vert