



DAVIS INSTRUMENTS TEST REPORT

FOR THE

VANTAGE PRO 2 CONSOLE, 6312

FCC PART 15 SUBPART B SECTIONS 15.107 AND 15.109 CLASS B
AND SUBPART C SECTIONS 15.207, 15.209 & 15.247

COMPLIANCE

DATE OF ISSUE: SEPTEMBER 9, 2004

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Date of test: August 27 –
September 1, 2004

Report No.: FC04-068

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ADMINISTRATIVE INFORMATION

DATE OF TEST: August 27 – September 1, 2004

DATE OF RECEIPT: August 27, 2004

PURPOSE OF TEST: To demonstrate the compliance of the Vantage Pro 2 Console, 6312, with the requirements for FCC Part 15 Subpart B Sections 15.107 and 15.109 and Subpart C Sections 15.207, 15.209 & 15.247 devices.

TEST METHOD: ANSI C63.4 (2001)

MANUFACTURER: Davis Instruments
3465 Diablo Avenue
Hayward, CA 94545

REPRESENTATIVE: Perry Dillon

TEST LOCATION: CKC Laboratories, Inc.
5473A Clouds Rest
Mariposa, CA 95338

SUMMARY OF RESULTS

As received, the Davis Instruments Vantage Pro 2 Console, 6312 was found to be fully compliant with the following standards and specifications:

Canadian Standard	Canadian Section	FCC Standard	FCC Section	Test Description
RSS 210	5.5	47CFR	15.203	Antenna Connector Requirements
RSS 210	6.2.1	47CFR	15.209	General Radiated Emissions Requirement
RSS 210	6.3	47CFR	15.205	Restricted Bands of Operation
RSS 210	6.4	47CFR	15.215(c)	Frequency Stability Recommendation
RSS 210	6.5	47CFR	15.35(c)	Pulsed Operation
RSS 210	6.6	47CFR	15.207	AC Mains Conducted Emissions Requirement
RSS 210	6.2.2(o)(a1)	47CFR	15.247(a)(1)	Minimum Channel Bandwidth
RSS 210	6.2.2(o)(a1)	47CFR	15.247(g)	Hopping Sequence
RSS 210	6.2.2(o)(a1)	47CFR	15.247(h)	Incorporation of Intelligence
RSS 210	6.2.2(o)(a2)	47CFR	15.247(a)(1)(i)	Average Time of Occupancy
RSS 210	6.2.2(o)(a2)	47CFR	15.247(b)(2)	RF Power Output
RSS 210	6.2.2(o)(e1)	47CFR	15.247(c)	Spurious Emissions
	IC 3082-D		784962	Site Filing No.

CONDITIONS FOR COMPLIANCE

No modifications to the EUT were necessary to comply.

APPROVALS

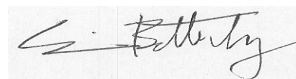
Steve Behm, Director of Engineering Services

QUALITY ASSURANCE:



Joyce Walker, Quality Assurance Administrative Manager

TEST PERSONNEL:



Eric Battenberg, EMC Test Engineer



Randy Clark, EMC Engineer

EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The EUT tested by CKC Laboratories was a production unit.

FCC 15.31(e) Voltage Variations

There was no change in the measured output power under voltage variations $\pm 15\%$ of nominal input.

FCC 15.31(m) Number Of Channels

This device was tested on three channels.

FCC 15.33(a) Frequency Ranges Tested

15.107 Conducted Emissions: 150 kHz – 30 MHz

15.109 Radiated Emissions: 30 MHz – 1000 MHz

15.207 Conducted: 150 kHz – 30 MHz

15.209 Radiated: 30 MHz – 10 GHz

FCC SECTION 15.35: ANALYZER BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
CONDUCTED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz
RADIATED EMISSIONS	1000 MHz	10 GHz	1 MHz

FCC 15.203 Antenna Requirements

The antenna is an integral part of the EUT and is non-removable; therefore the EUT complies with Section 15.203 of the FCC rules.

FCC 15.205 Restricted Bands

The fundamental operating frequency lies outside the restricted bands and therefore complies with the requirements of Section 15.205 of the FCC rules. Any spurious emission coming from the EUT was investigated to determine if any portion lies inside the restricted band. If any portion of a spurious emissions signal was found to be within a restricted band, investigation was performed to ensure compliance with Section 15.209.

Eut Operating Frequency

The EUT was operating at 902-928 MHz.

EQUIPMENT UNDER TEST

Vantage Pro 2 Console

Manuf: Davis Instruments
Model: 6312
Serial: Davis 100
FCC ID: Pending

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

Power Supply

Manuf: Davis Instruments
Model: 6625
Serial: NA
FCC ID: DoC

WeatherLink USB

Manuf: Davis Instruments
Model: 6510USB
Serial: Davis 104
FCC ID: DoC

REPORT OF MEASUREMENTS

The following tables report the six highest worst case levels recorded during the tests performed on the EUT. All readings taken are peak readings unless otherwise noted. The data sheets from which these tables were compiled are contained in Appendix C.

Table 1: FCC 15.107 Six Highest Conducted Emission Levels									
FREQUENCY MHz	METER READING dBμV	CORRECTION FACTORS				CORRECTED READING dBμV	SPEC LIMIT dBμV	MARGIN dB	NOTES
		Lisn dB	HPF dB	Cable dB					
0.155818	38.6	0.3	2.2	0.1		41.2	55.7	-14.5	B
0.274351	35.8	0.2	0.2	0.1		36.3	51.0	-14.7	B
0.310711	35.3	0.3	0.2	0.1		35.9	50.0	-14.1	W
0.473604	33.4	0.3	0.2	0.1		34.0	46.5	-12.5	W
0.563050	31.4	0.2	0.2	0.1		31.9	46.0	-14.1	B
0.592865	32.8	0.3	0.3	0.1		33.5	46.0	-12.5	W

Test Method: ANSI C63.4 (2001)
Spec Limit: FCC Part 15 Subpart B Section 15.107 Class B

NOTES: B = Black Lead
W = White Lead

COMMENTS: EUT is a console monitoring station. EUT is in receive mode. EUT is mounted vertically to simulate normal installation. Frequency Range Investigated: 150kHz-30MHz. Temperature: 22°C, Relative Humidity: 40%.

Table 2: FCC 15.109 Six Highest Radiated Emission Levels

FREQUENCY MHz	METER READING dB μ V	CORRECTION FACTORS				CORRECTED READING dB μ V/m	SPEC LIMIT dB μ V/m	MARGIN DB	NOTES
		Ant dB	Amp dB	Cable dB					
144.086	30.1	10.7	-27.0	2.5		16.3	43.5	-27.2	V
147.522	30.3	10.5	-27.0	2.5		16.3	43.5	-27.2	V
304.197	28.3	12.9	-26.5	3.6		18.3	46.0	-27.7	H
304.224	28.1	12.9	-26.5	3.6		18.1	46.0	-27.9	V
853.064	27.5	22.2	-27.7	7.2		29.2	46.0	-16.8	V
855.878	27.6	22.2	-27.7	7.2		29.3	46.0	-16.7	H

Test Method: ANSI C63.4 (2001)
Spec Limit: FCC Part 15 Subpart B Section 15.109 Class B
Test Distance: 3 Meters

NOTES: H = Horizontal Polarization
V = Vertical Polarization

COMMENTS: EUT is a console monitoring station. EUT is in receive mode. EUT is mounted vertically to simulate normal installation. Frequency Range Investigated: 30-1000MHz. Temperature: 23°C, Relative Humidity: 50%.

Table 3: FCC 15.207 Six Highest Conducted Emission Levels

FREQUENCY MHz	METER READING dB μ V	CORRECTION FACTORS				CORRECTED READING dB μ V	SPEC LIMIT dB μ V	MARGIN dB	NOTES
		Lisn dB	HPF dB	Cable dB					
0.162362	40.0	0.4	1.6	0.1		42.1	55.3	-13.2	W
0.163090	40.1	0.3	1.5	0.1		42.0	55.3	-13.3	B
0.518690	37.8	0.3	0.3	0.1		38.5	46.0	-7.5	W
0.518690	36.9	0.3	0.3	0.1		37.6	46.0	-8.4	B
3.399029	25.1	0.3	0.1	0.3		25.8	46.0	-20.2	B
4.364460	25.6	0.4	0.1	0.3		26.4	46.0	-19.6	W

Test Method: ANSI C63.4 (2001)
Spec Limit: FCC Part 15 Subpart C Section 15.207

NOTES: B = Black Lead
W = White Lead

COMMENTS: EUT is a console monitoring station. EUT is in transmit mode modulated with a constant high value. EUT is mounted vertically to simulate normal installation. Frequency Range Investigated: 150kHz-30MHz. Temperature: 22°C, Relative Humidity: 40%.

Table 4: FCC 15.209 Six Highest Radiated Emission Levels: 30-1000 MHz

FREQUENCY MHz	METER READING dB μ V	CORRECTION FACTORS				CORRECTED READING dB μ V/m	SPEC LIMIT dB μ V/m	MARGIN DB	NOTES
		Ant dB	Amp dB	Cable dB					
896.526	40.8	22.8	-27.3	7.5		43.8	46.0	-2.2	VQ
900.995	39.4	22.8	-27.3	7.5		42.4	46.0	-3.6	VQ
907.259	39.0	22.9	-27.3	7.5		42.1	46.0	-3.9	VQ
908.369	40.7	22.9	-27.3	7.5		43.8	46.0	-2.2	VQ
920.896	39.6	23.1	-27.3	7.4		42.8	46.0	-3.2	VQ
934.140	39.5	23.3	-27.2	7.3		42.9	46.0	-3.1	VQ

Test Method: ANSI C63.4 (2001)
Spec Limit: FCC Part 15 Subpart C Section 15.209
Test Distance: 3 Meters

NOTES: Q = Quasi Peak Reading
V = Vertical Polarization

COMMENTS: EUT is a console monitoring station. EUT is in transmit mode with constant carrier modulated with 1's. EUT is mounted vertically to simulate normal installation. Frequency Range Investigated: 30-1000MHz. Temperature: 23°C, Relative Humidity: 50%.

Table 5: FCC 15.209 Six Highest Radiated Emission Levels: 1-10 GHz

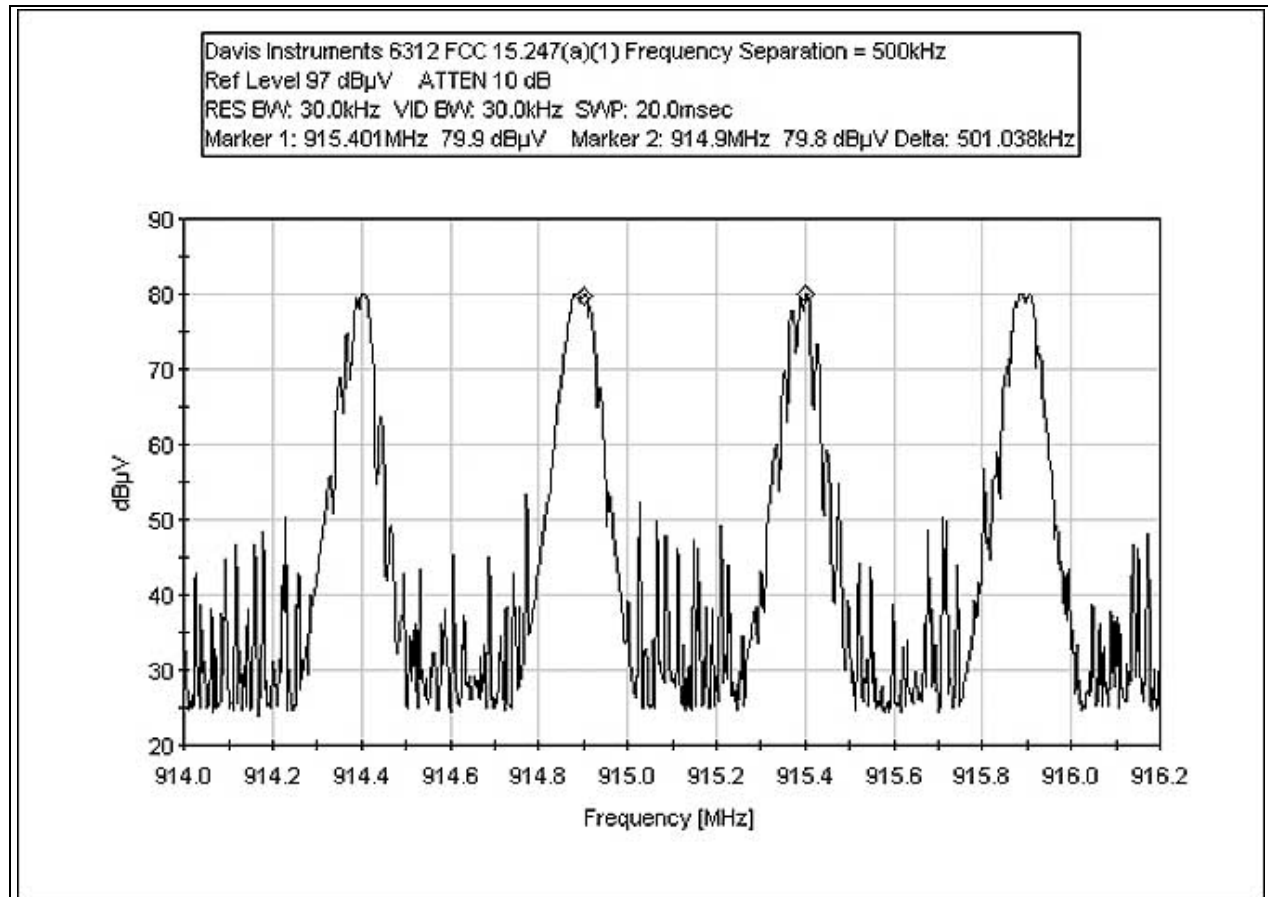
FREQUENCY MHz	METER READING dBμV	CORRECTION FACTORS				CORRECTED READING dBμV/m	SPEC LIMIT dBμV/m	MARGIN DB	NOTES
		Ant dB	Amp dB	Cable dB	DTCF dB				
1001.820	64.8	24.2	-36.2	1.8	-11.3	43.3	54.0	-10.7	V
1012.974	65.0	24.2	-36.2	1.8	-11.3	43.5	54.0	-10.5	V
1804.720	67.6	26.4	-35.3	2.6	-11.3	50.0	54.0	-4.0	H
1804.772	67.3	26.4	-35.3	2.6	-11.3	49.7	54.0	-4.3	VA
1829.720	64.1	26.5	-35.3	2.6	-11.3	46.6	54.0	-7.4	V
1854.834	60.7	26.6	-35.3	2.6	-11.3	43.3	54.0	-10.7	V

Test Method: ANSI C63.4 (2001)
Spec Limit: FCC Part 15 Subpart C Section 15.209
Test Distance: 3 Meters

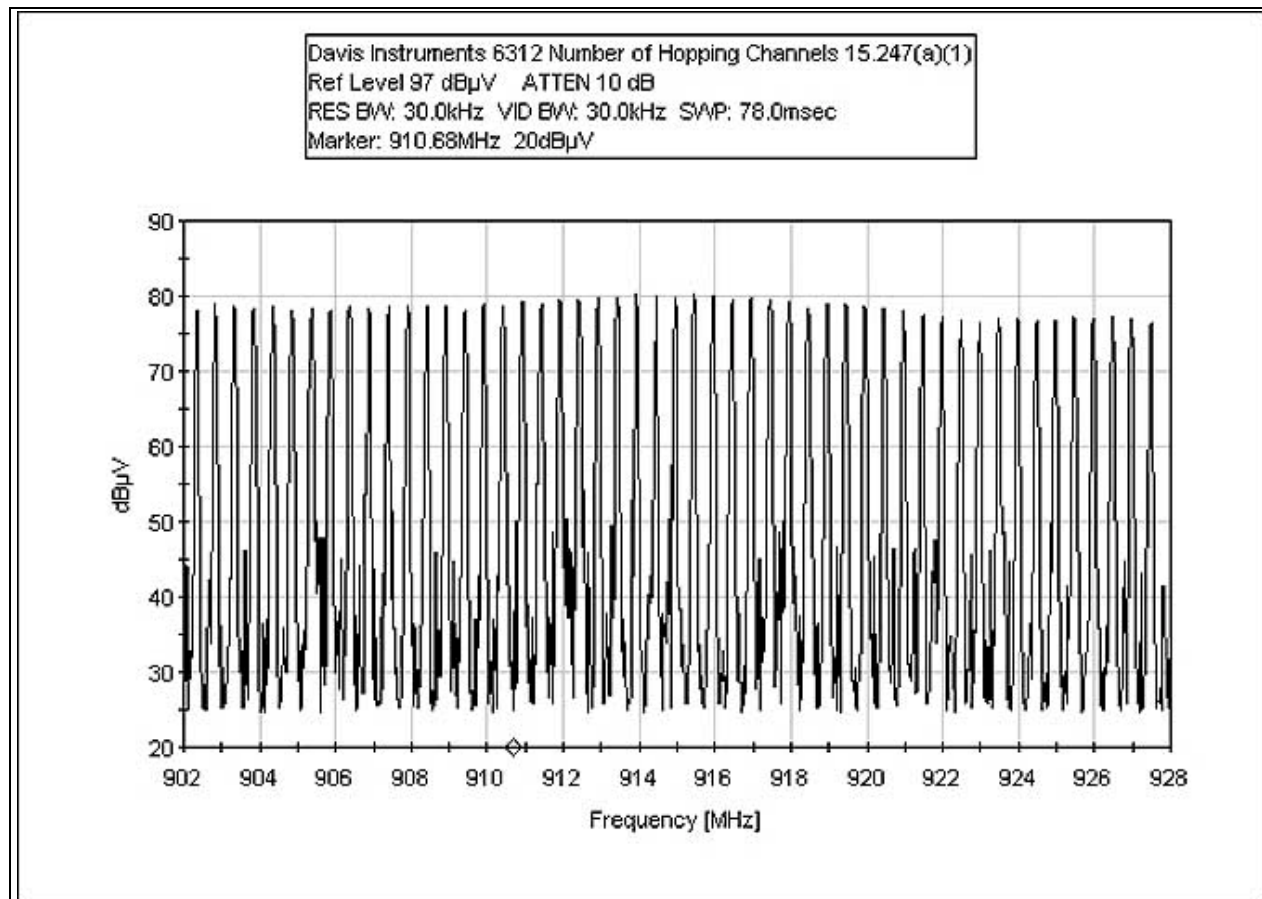
NOTES: H = Horizontal Polarization
V = Vertical Polarization
A = Average Reading

COMMENTS: EUT is a console monitoring station. EUT is continuously transmitting data on the indicated channel. EUT is mounted vertically to simulate normal installation. Dwell time correction factor used in accordance with DA 00-705. Maximum packet length is 6.7ms which transmits once every 2.5625 seconds. Therefore, longest duration within a 100ms window is 7.4ms. Correction factor calculated as follows: $10 \cdot \log(7.4/100) = -11.3\text{dB}$. Dwell time correction factor applied only to those frequencies which are harmonics of the carrier. Frequency Range Investigated: 1-10GHz. Temperature: 22°C, Relative Humidity: 50%.

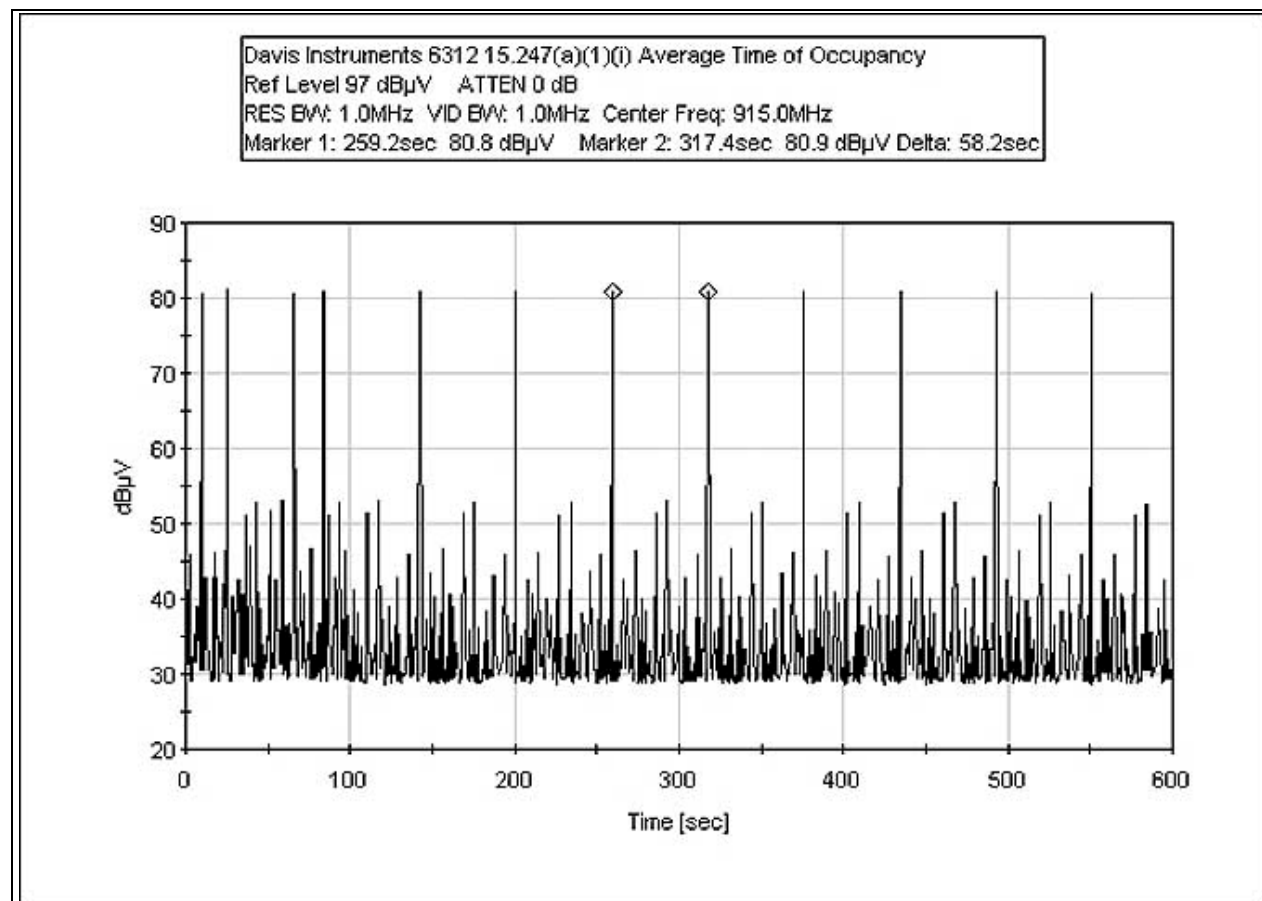
FCC 15.247(a)(1) FREQUENCY SEPARATION



FCC 15.247(a)(1) HOPPING CHANNELS



FCC 15.247(a)(1)(i) AVERAGE TIME OF OCCUPANCY 10 MIN



FCC 15.247(a)(1)(i) AVERAGE TIME OF OCCUPANCY 20 MS

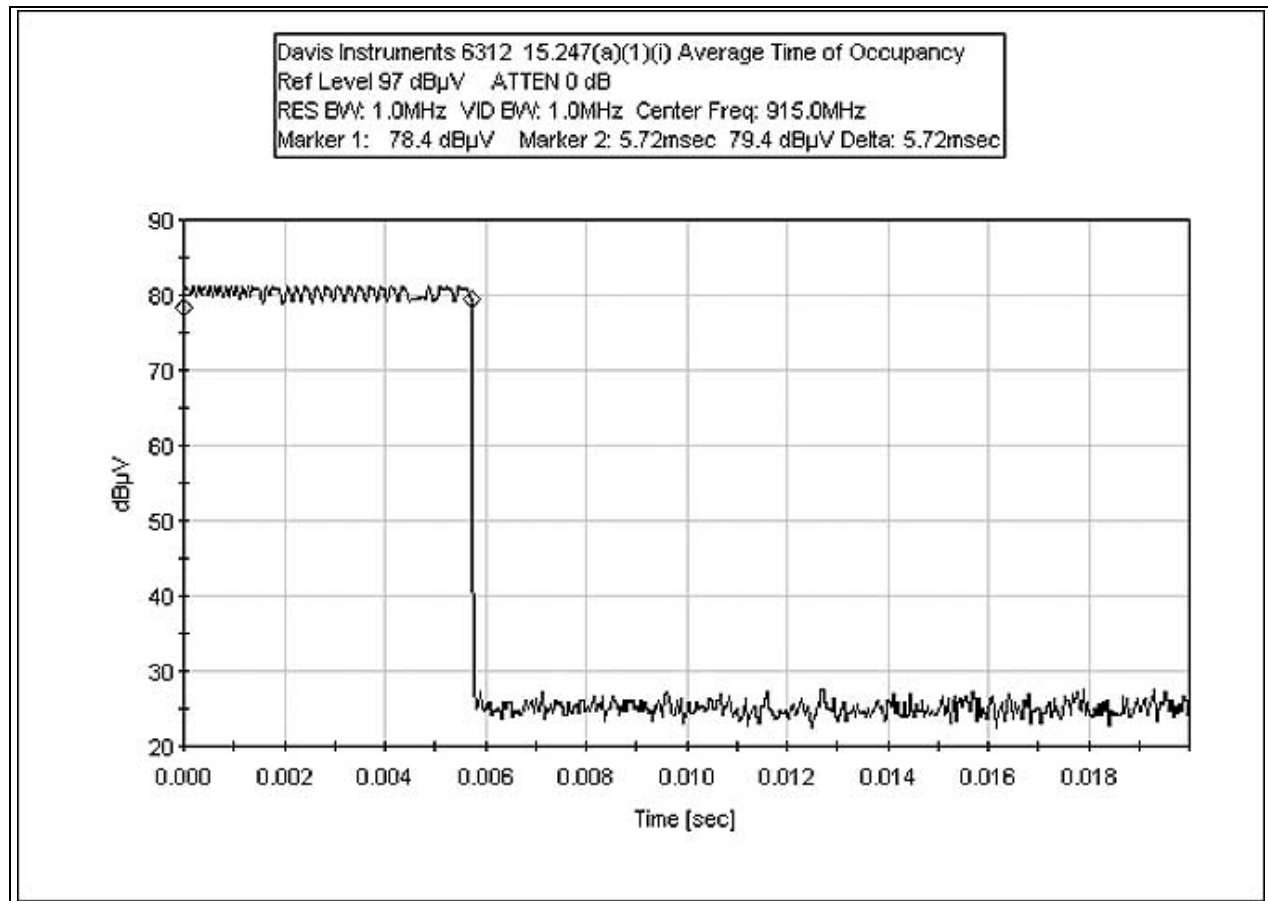


Table 6: FCC 15.247(b)(3) Six Highest Radiated Emission Levels

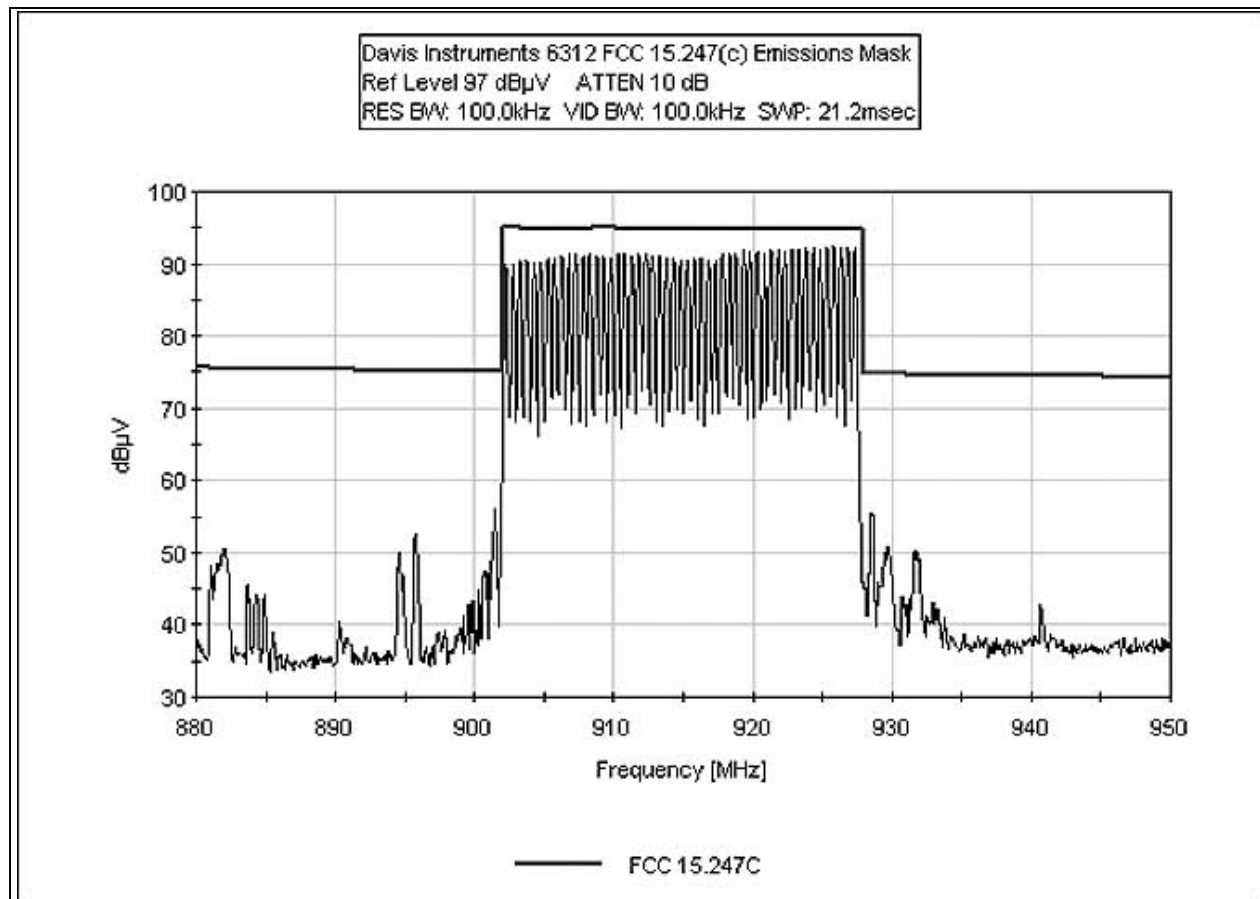
FREQUENCY MHz	METER READING dBμV	CORRECTION FACTORS				CORRECTED READING dBμV/m	SPEC LIMIT dBμV/m	MARGIN DB	NOTES
		Ant dB	Amp dB	Cable dB					
902.436	93.9	22.8	-27.3	7.5		96.9	127.0	-30.1	V
902.440	86.9	22.8	-27.3	7.5		89.9	127.0	-37.1	H
914.979	94.0	23.0	-27.3	7.4		97.1	127.0	-29.9	V
914.980	87.0	23.0	-27.3	7.4		90.1	127.0	-36.9	H
927.524	94.6	23.2	-27.2	7.3		97.9	127.0	-29.1	V
927.525	86.8	23.2	-27.2	7.3		90.1	127.0	-36.9	H

Test Method: ANSI C63.4 (2001)
Spec Limit: FCC Part 15 Subpart C Section 15.247
Test Distance: 3 Meters

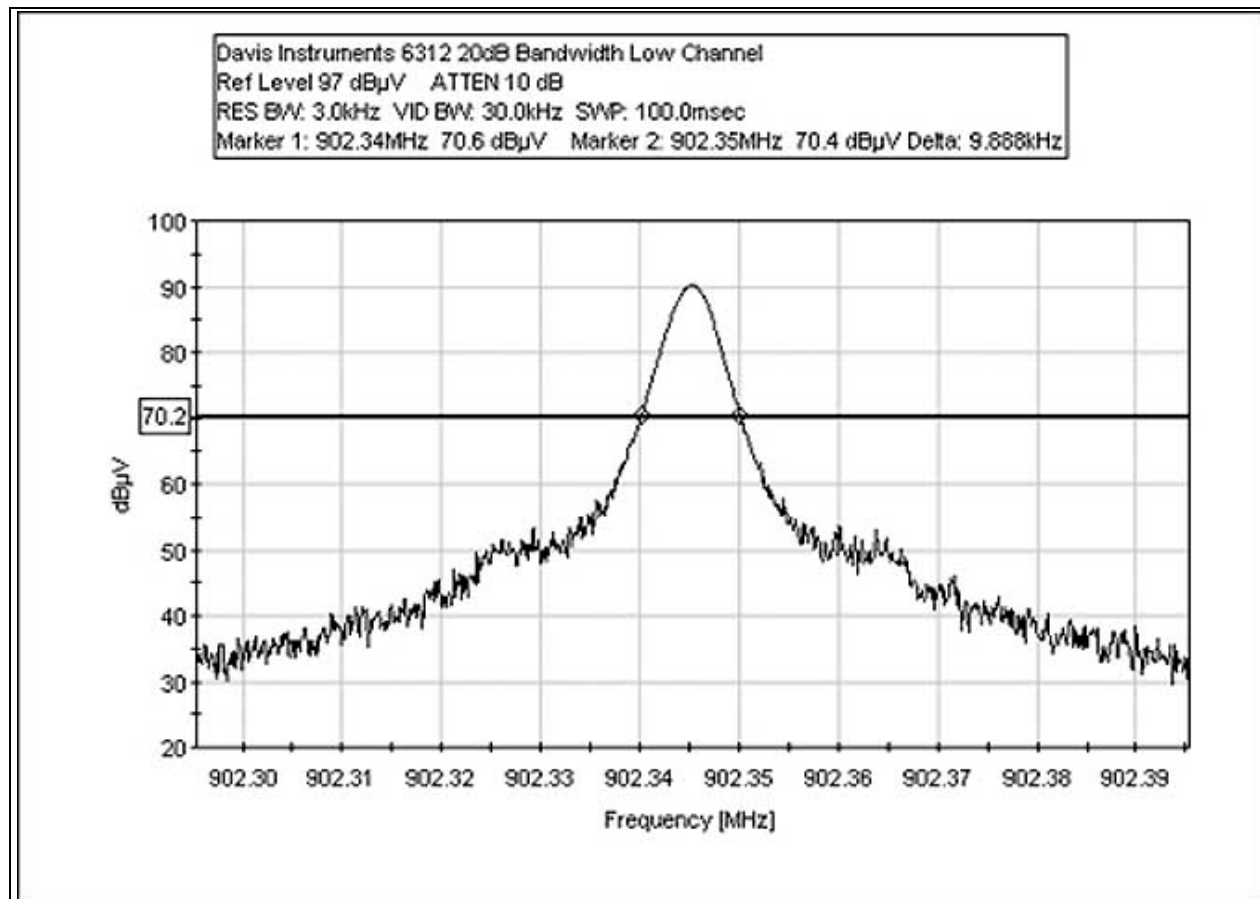
NOTES: H = Horizontal Polarization
V = Vertical Polarization

COMMENTS: EUT is a console monitoring station. EUT is in transmit mode with constant carrier modulated with 1's (TX 3, HOP 0). EUT is mounted vertically to simulate normal installation. Frequency Range Investigated: Carrier. Temperature: 30°C, Relative Humidity: 50%.

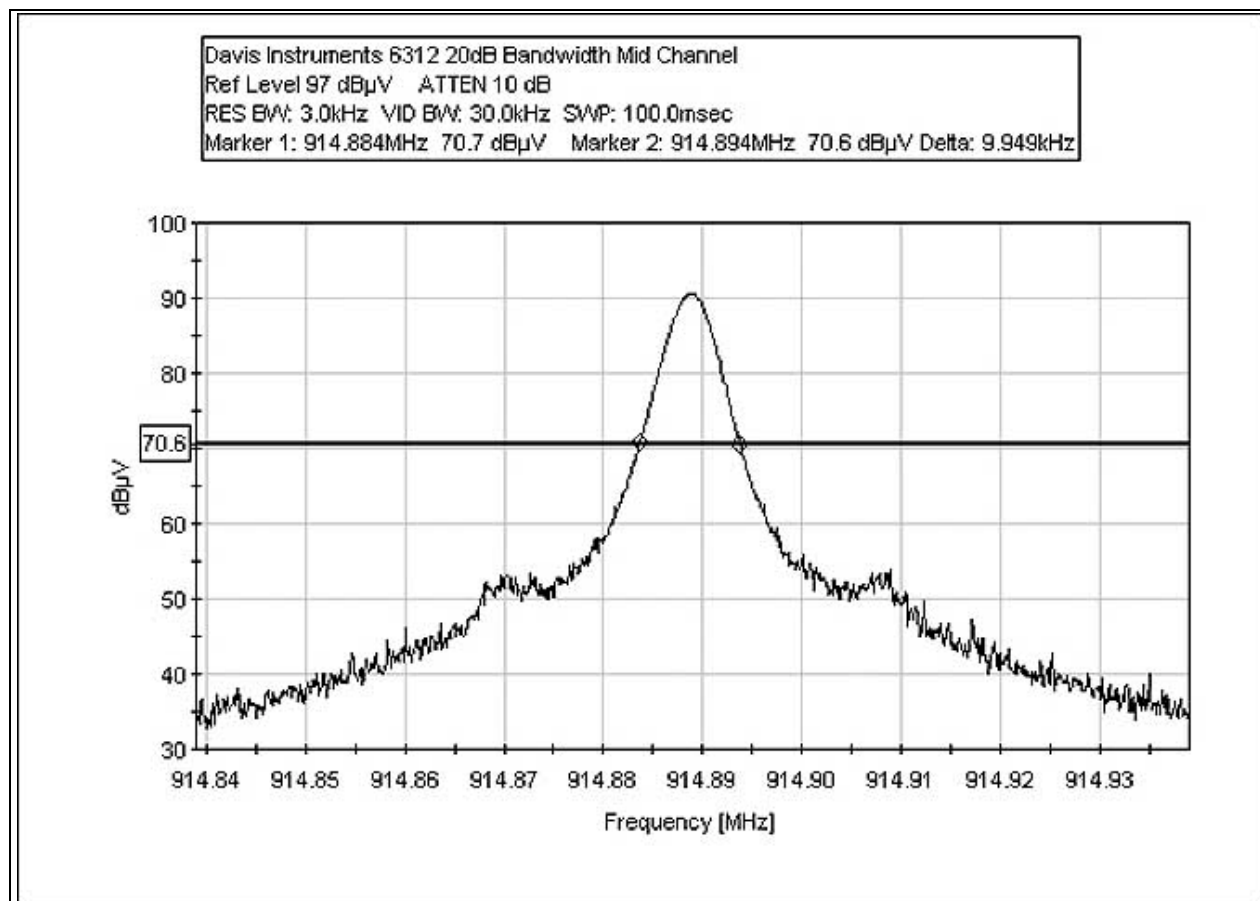
FCC 15.247(c) EMISSIONS MASK



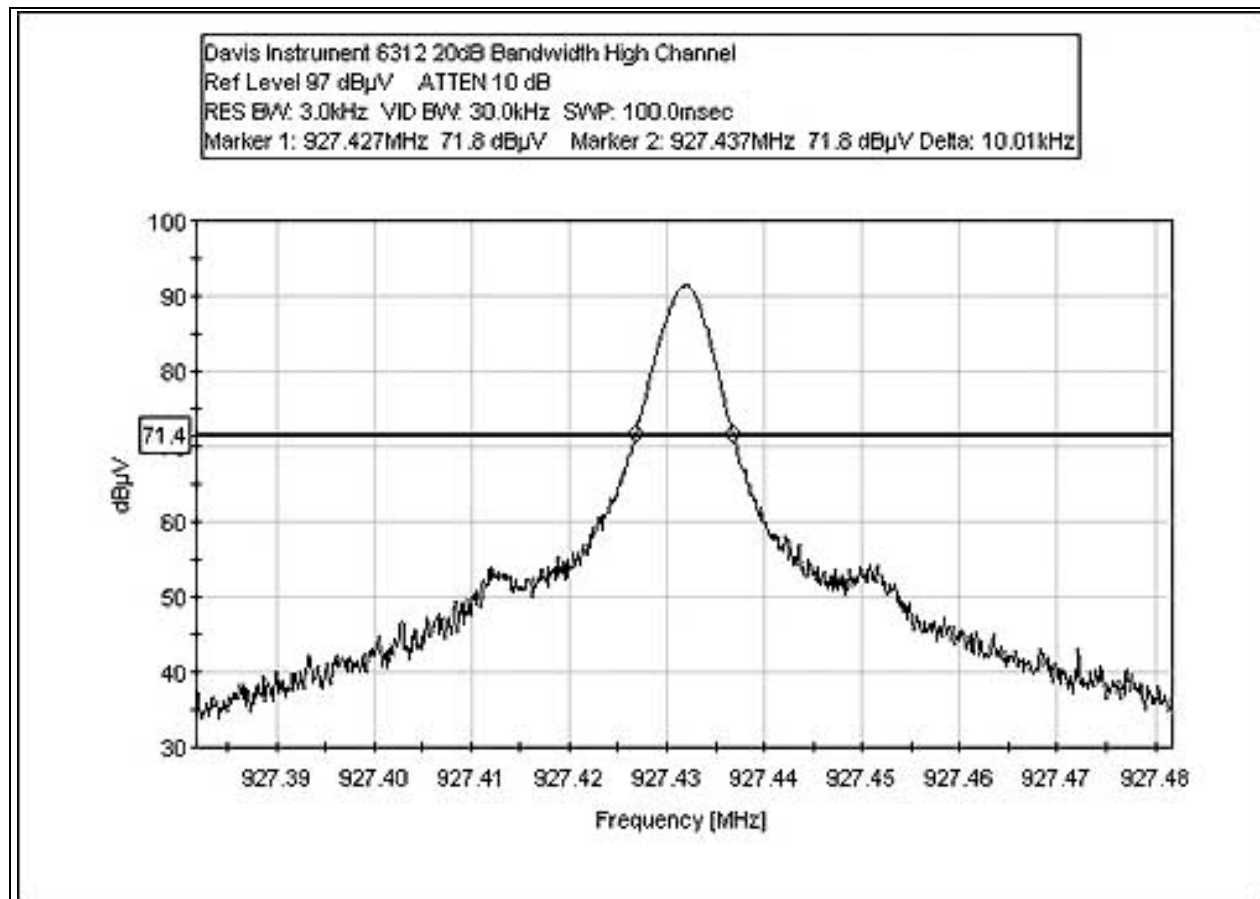
20dB BANDWIDTH LOW CHANNEL



20dB BANDWIDTH MID CHANNEL



20dB BANDWIDTH HIGH CHANNEL



TEMPERATURE AND HUMIDITY DURING TESTING

The temperature during testing was within +15°C and + 35°C.

The relative humidity was between 20% and 75%.

EUT SETUP

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the photographs in Appendix A. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables. The corrected data was then compared to the applicable emission limits to determine compliance.

The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available I/O ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. I/O cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The radiated and conducted emissions data of the EUT was taken with the HP Spectrum Analyzer. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in Table A.

Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dB μ V/m, the spectrum analyzer reading in dB μ V was corrected by using the following formula in Table A. This reading was then compared to the applicable specification limit to determine compliance.

TABLE A: SAMPLE CALCULATIONS		
	Meter reading	(dB μ V)
+	Antenna Factor	(dB)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	(dB μ V/m)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed in Table A were used to collect both the radiated and conducted emissions data for the EUT. For radiated measurements from 30 to 1000 MHz, the biconilog antenna was used. The horn antenna was used for frequencies above 1000 MHz. Conducted emissions tests required the use of the FCC type LISNs.

The HP spectrum analyzer was used for all measurements. Table B shows the analyzer bandwidth settings that were used in designated frequency bands. For conducted emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used. A 10 dB external attenuator was also used during conducted tests, with internal offset correction in the analyzer. During radiated testing, the measurements were made with 0 dB of attenuation, a reference level of 97 dB μ V, and a vertical scale of 10 dB per division.

SPECTRUM ANALYZER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the Tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "Peak" mode. Whenever a "Quasi-Peak" or "Average" reading is listed as one of the six highest readings, this is indicated as a "Q" or an "A" in the appropriate table. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the Spectrum Analyzer or test engineer recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature of the analyzer called "peak hold," the analyzer had the ability to measure transients or low duty cycle transient emission peak levels. In this mode the analyzer made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

When the true peak values exceeded or were within 2 dB of the specification limit, quasi-peak measurements were taken using the HP Quasi-Peak Adapter for the HP Spectrum Analyzer. The detailed procedure for making quasi peak measurements contained in the HP Quasi-Peak Adapter manual were followed.

Average

For certain frequencies, average measurements may be made using the spectrum analyzer. To make these measurements, the test engineer reduces the video bandwidth on the analyzer until the modulation of the signal is filtered out. At this point the analyzer is set into the linear mode and the scan time is reduced.

EUT TESTING

Mains Conducted Emissions

During conducted emissions testing, the EUT was located on a wooden table measuring approximately 80 cm high, 1 meter deep, and 1.5 meters in length. One wall of the room where the EUT was located has a minimum 2 meter by 2 meter conductive plane. The EUT was mounted on the wooden table 40 cm away from the conductive plane, and 80 cm from any other conductive surface.

The vertical metal plane used for conducted emissions was grounded to the earth. Power to the EUT was provided through a LISN. The LISN was grounded to the ground plane. All other objects were kept a minimum of 80 cm away from the EUT during the conducted test.

The LISNs used were 50 μH $\pm$ 50 ohms. Above 150 kHz, a 0.15 μF series capacitor was added in-line prior to connecting the analyzer to restore the proper impedance for the range. A 30 to 50 second sweep time was used for automated measurements in the frequency bands of 150 kHz to 500 kHz, and 500 kHz to 30 MHz. All readings within 20 dB of the limit were recorded, and those within 6 dB of the limit were examined with additional measurements using a slower sweep time.

Radiated Emissions

The EUT was mounted on a nonconductive, rotating table 80 cm above the conductive grid. The nonconductive table dimensions were 1 meter by 1.5 meters.

During the preliminary radiated scan, the EUT was powered up and operating in its defined FCC test mode. The frequency range of 30 MHz to 1000 MHz was scanned with the biconilog antenna located about 1.5 meter above the ground plane in the vertical polarity. During this scan, the turntable was rotated and all peaks at or near the limit were recorded. A scan of the FM band from 88 to 110 MHz was then made using a reduced resolution bandwidth and frequency span. The biconilog antenna was changed to the horizontal polarity and the above steps were repeated. For frequencies exceeding 1000 MHz, the horn antenna was used. Care was taken to ensure that no frequencies were missed within the FM and TV bands. An analysis was performed to determine if the signals that were at or near the limit were caused by an ambient transmission. If unable to determine by analysis, the equipment was powered down to make the final determination if the EUT was the source of the emission.

A thorough scan of all frequencies was made manually using a small frequency span, rotating the turntable and raising and lowering the antenna from one to four meters as needed. The test engineer maximized the readings with respect to the table rotation, antenna height and configuration of EUT. Maximizing of the EUT was achieved by monitoring the spectrum analyzer on a closed circuit television monitor.

APPENDIX A

TEST SETUP PHOTOGRAPHS

PHOTOGRAPH SHOWING RADIATED EMISSIONS



Radiated Emissions - Front View

PHOTOGRAPH SHOWING RADIATED EMISSIONS



Radiated Emissions - Back View

PHOTOGRAPH SHOWING CONDUCTED EMISSIONS



Conducted Emissions

APPENDIX B

TEST EQUIPMENT LIST

FCC 15.107 & 15.207

Function	S/N	Calibration Date	Cal Due Date	Asset #
HP 8566B SA	2209A01404	02/26/2003	02/26/2005	00490
HP 8566B SA Display	2403A08241	02/26/2003	02/26/2005	00489
HP 85650A QPA	2811A01267	02/26/2003	02/26/2005	00478
150kHz HP Filter TTE	G7754	04/20/2004	04/20/2006	02608
LISN, 8028-50-TS-24-BNC	8379276, 280	06/05/2003	06/05/2005	1248 & 1249

FCC 15.109 & 15.209

Function	S/N	Calibration Date	Cal Due Date	Asset #
HP 8566B SA	2209A01404	02/26/2003	02/26/2005	00490
HP 8566B SA Display	2403A08241	02/26/2003	02/26/2005	00489
HP 85650A QPA	2811A01267	02/26/2003	02/26/2005	00478
Chase CBL6111C Bilog	2456	12/13/2002	12/13/2004	01991
HP 8447D Preamp	1937A02604	03/07/2003	03/07/2005	00099

FCC 15.209 1-10 GHz

Function	S/N	Calibration Date	Cal Due Date	Asset #
HP 8566B SA	2209A01404	02/26/2003	02/26/2005	00490
HP 8566B SA Display	2403A08241	02/26/2003	02/26/2005	00489
HP 85650A QPA	2811A01267	02/26/2003	02/26/2005	00478
HP 8449B Preamp	3008A00301	10/21/2002	10/18/2004	2010
Cable, Andrews Hardline HF-005-20	NA	06/03/2003	06/03/2005	P04275
Cable, WL Gore 2'	149047	04/10/2003	04/10/2005	P01527
EMCO 3115 Horn Antenna	9006-3413	04/15/2003	04/25/2005	327

FCC 15.247(b)(3)

Function	S/N	Calibration Date	Cal Due Date	Asset #
HP 8566B SA	2209A01404	02/26/2003	02/26/2005	00490
HP 8566B SA Display	2403A08241	02/26/2003	02/26/2005	00489
HP 85650A QPA	2811A01267	02/26/2003	02/26/2005	00478
Chase CBL6111C Bilog	2456	12/13/2002	12/13/2004	01991
HP 8447D Preamp	1937A02604	03/07/2003	03/07/2005	00099

APPENDIX C
MEASUREMENT DATA SHEETS

Test Location: CKC Laboratories • 5473A Clouds Rest • Mariposa, CA 95338 • 1-800-500-4EMC (4362)

Customer: **Davis Instruments**
 Specification: **FCC 15.107(a) Class B - AVE**
 Work Order #: **82619**
 Test Type: **Conducted Emissions**
 Equipment: **Console Monitoring Station**
 Manufacturer: Davis Instruments
 Model: 6312
 S/N: Davis 100

Date: 08/31/2004
 Time: 8:41:51 AM
 Sequence#: 16
 Tested By: Randal Clark
 120V 60Hz

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Console Monitoring Station*	Davis Instruments	6312	Davis 100

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	Davis Instruments	6625	NA
WeatherLink USB	Davis Instruments	6510USB	Davis 104

Test Conditions / Notes:

EUT is a console monitoring station. EUT is in receive mode. EUT is mounted vertically to simulate normal installation. Frequency Range Investigated: 150kHz-30MHz. Temperature: 22°C, Relative Humidity: 40%.

Transducer Legend:

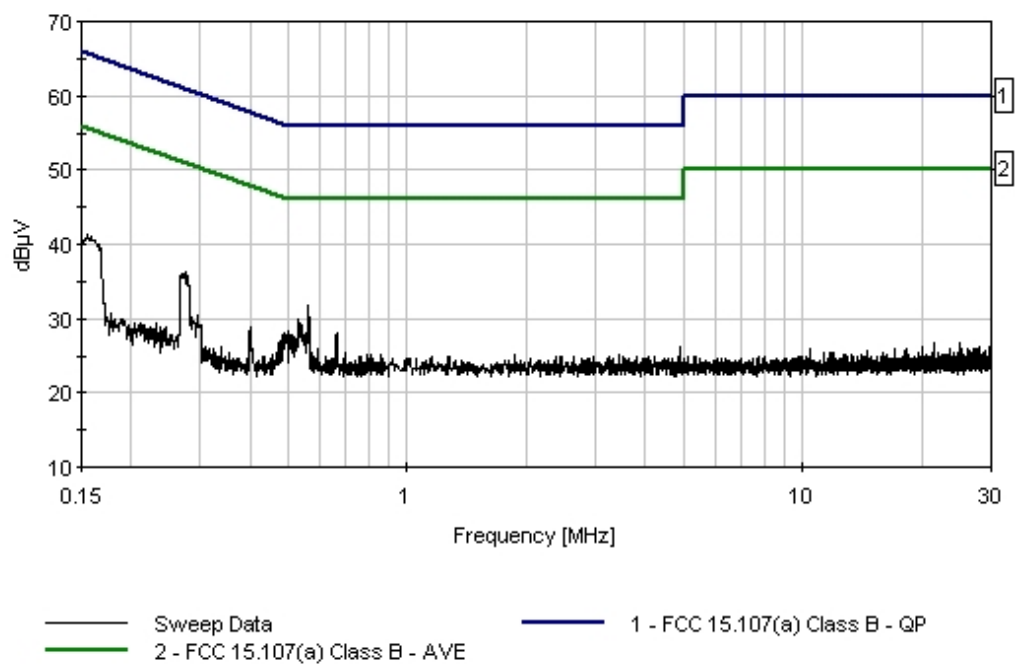
T1=Cable - Internal + cab	T2=LISN Insertion Loss s/n280
T3=HP Filter AN02608	

Measurement Data: Reading listed by margin.

Test Lead: Black

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist dB	Table	Corr dBµV	Spec dBµV	Margin dB	Polar Ant
1	563.050k	31.4	+0.1	+0.2	+0.2	+0.0		31.9	46.0	-14.1	Black
2	155.818k	38.6	+0.1	+0.3	+2.2	+0.0		41.2	55.7	-14.5	Black
3	274.351k	35.8	+0.1	+0.2	+0.2	+0.0		36.3	51.0	-14.7	Black
4	500.510k	27.7	+0.1	+0.3	+0.2	+0.0		28.3	46.0	-17.7	Black
5	662.676k	27.5	+0.1	+0.2	+0.3	+0.0		28.1	46.0	-17.9	Black
6	401.611k	28.3	+0.1	+0.3	+0.1	+0.0		28.8	47.8	-19.0	Black
7	4.896M	25.5	+0.3	+0.3	+0.1	+0.0		26.2	46.0	-19.8	Black
8	337.618k	25.7	+0.1	+0.2	+0.1	+0.0		26.1	49.3	-23.2	Black
9	21.390M	25.5	+0.5	+0.4	+0.2	+0.0		26.6	50.0	-23.4	Black
10	25.045M	25.4	+0.5	+0.5	+0.2	+0.0		26.6	50.0	-23.4	Black
11	10.408M	25.1	+0.3	+0.4	+0.1	+0.0		25.9	50.0	-24.1	Black

CKC Laboratories Date: 08/31/2004 Time: 8:41:51 AM Davis Instruments WVO#: 82619
 FCC 15.107(a) Class B - AVE Test Lead: Black 120V 60Hz Sequence#: 16
 Davis Instruments M/N 6312



Test Location: CKC Laboratories • 5473A Clouds Rest • Mariposa, CA 95338 • 1-800-500-4EMC (4362)

Customer: **Davis Instruments**
 Specification: **FCC 15.107(a) Class B - AVE**
 Work Order #: **82619**
 Test Type: **Conducted Emissions**
 Equipment: **Console Monitoring Station**
 Manufacturer: Davis Instruments
 Model: 6312
 S/N: Davis 100

Date: 08/31/2004
 Time: 8:46:02 AM
 Sequence#: 17
 Tested By: Randal Clark
 120V 60Hz

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Console Monitoring Station*	Davis Instruments	6312	Davis 100

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	Davis Instruments	6625	NA
WeatherLink USB	Davis Instruments	6510USB	Davis 104

Test Conditions / Notes:

EUT is a console monitoring station. EUT is in receive mode. EUT is mounted vertically to simulate normal installation. Frequency Range Investigated: 150kHz-30MHz. Temperature: 22°C, Relative Humidity: 40%.

Transducer Legend:

T1=Cable - Internal + cab	T2=LISN Insertion Loss s/n276
T3=HP Filter AN02608	

Measurement Data:

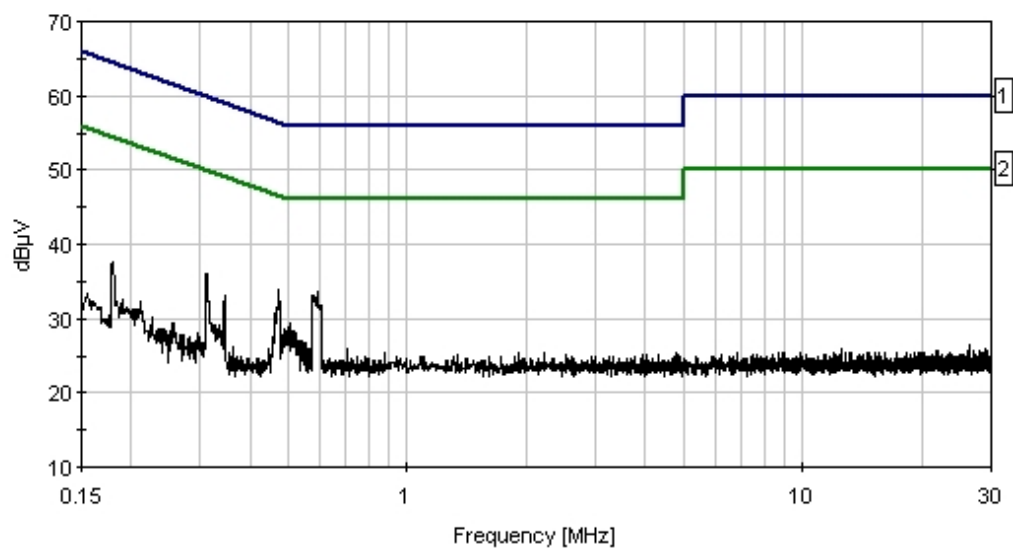
Reading listed by margin.

Test Lead: White

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBµV	Spec dBµV	Margin dB	Polar Ant
1	473.604k	33.4	+0.1	+0.3	+0.2		+0.0	34.0	46.5	-12.5	White
2	592.865k	32.8	+0.1	+0.3	+0.3		+0.0	33.5	46.0	-12.5	White
3	310.711k	35.3	+0.1	+0.3	+0.2		+0.0	35.9	50.0	-14.1	White
4	344.890k	32.6	+0.1	+0.3	+0.1		+0.0	33.1	49.1	-16.0	White
5	179.815k	36.6	+0.1	+0.4	+0.4		+0.0	37.5	54.5	-17.0	White
6	536.870k	26.4	+0.1	+0.3	+0.3		+0.0	27.1	46.0	-18.9	White
7	2.229M	24.7	+0.2	+0.4	+0.1		+0.0	25.4	46.0	-20.6	White
8	255.444k	28.6	+0.1	+0.3	+0.3		+0.0	29.3	51.6	-22.3	White
9	293.986k	27.4	+0.1	+0.3	+0.2		+0.0	28.0	50.4	-22.4	White

10	26.327M	25.3	+0.5	+0.4	+0.2	+0.0	26.4	50.0	-23.6	White
11	12.516M	24.9	+0.4	+0.5	+0.1	+0.0	25.9	50.0	-24.1	White
12	21.832M	24.6	+0.5	+0.4	+0.2	+0.0	25.7	50.0	-24.3	White

CKC Laboratories Date: 08/31/2004 Time: 8:46:02 AM Davis Instruments WVO#: 82619
FCC 15.107(a) Class B - AVE Test Lead: White 120V 60Hz Sequence#: 17
Davis Instruments M/N 6312



— Sweep Data
— 1 - FCC 15.107(a) Class B - QP
— 2 - FCC 15.107(a) Class B - AVE

Test Location: CKC Laboratories • 5473A Clouds Rest • Mariposa, CA 95338 • 1-800-500-4EMC (4362)

Customer: **Davis Instruments**

Specification: **15.109 CLASS B**

Work Order #: **82619**

Date: 08/31/2004

Test Type: **Maximized Emissions**

Time: 10:32:58

Equipment: **Console Monitoring Station**

Sequence#: 20

Manufacturer: Davis Instruments

Tested By: Randal Clark

Model: 6312

S/N: Davis 100

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Console Monitoring Station*	Davis Instruments	6312	Davis 100

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	Davis Instruments	6625	NA
WeatherLink USB	Davis Instruments	6510USB	Davis 104

Test Conditions / Notes:

EUT is a console monitoring station. EUT is in receive mode. EUT is mounted vertically to simulate normal installation. Frequency Range Investigated: 30-1000MHz. Temperature: 23°C, Relative Humidity: 50%.

Transducer Legend:

T1=Amp - S/N 604	T2=Bilog Site B
T3=Cable - 3 Meter	

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist dB	Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	855.878M	27.6	-27.7	+22.2	+7.2	+0.0	29.3	46.0	-16.7	Horiz	139
2	853.064M	27.5	-27.7	+22.2	+7.2	+0.0	29.2	46.0	-16.8	Verti	139
3	144.086M	30.1	-27.0	+10.7	+2.5	+0.0	16.3	43.5	-27.2	Verti	139
4	147.522M	30.3	-27.0	+10.5	+2.5	+0.0	16.3	43.5	-27.2	Verti	139
5	304.197M	28.3	-26.5	+12.9	+3.6	+0.0	18.3	46.0	-27.7	Horiz	139
6	304.224M	28.1	-26.5	+12.9	+3.6	+0.0	18.1	46.0	-27.9	Verti	139
7	164.104M	28.2	-26.9	+9.6	+2.6	+0.0	13.5	43.5	-30.0	Verti	139
8	242.011M	27.0	-26.5	+11.5	+3.2	+0.0	15.2	46.0	-30.8	Horiz	139
9	145.251M	26.6	-27.0	+10.6	+2.5	+0.0	12.7	43.5	-30.8	Horiz	139
10	221.933M	26.4	-26.5	+10.0	+3.1	+0.0	13.0	46.0	-33.0	Verti	139

Test Location: CKC Laboratories • 5473A Clouds Rest • Mariposa, CA 95338 • 1-800-500-4EMC (4362)

Customer: **Davis Instruments**
 Specification: **FCC 15.207 - AVE**
 Work Order #: **82619**
 Test Type: **Conducted Emissions**
 Equipment: **Console Monitoring Station**
 Manufacturer: Davis Instruments
 Model: 6312
 S/N: Davis 100

Date: 08/31/2004
 Time: 9:09:49 AM
 Sequence#: 18
 Tested By: Randal Clark
 120V 60Hz

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Console Monitoring Station*	Davis Instruments	6312	Davis 100

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	Davis Instruments	6625	NA
WeatherLink USB	Davis Instruments	6510USB	Davis 104

Test Conditions / Notes:

EUT is a console monitoring station. EUT is in transmit mode modulated with a constant high value. EUT is mounted vertically to simulate normal installation. Frequency Range Investigated: 150kHz-30MHz. Temperature: 22°C, Relative Humidity: 40%.

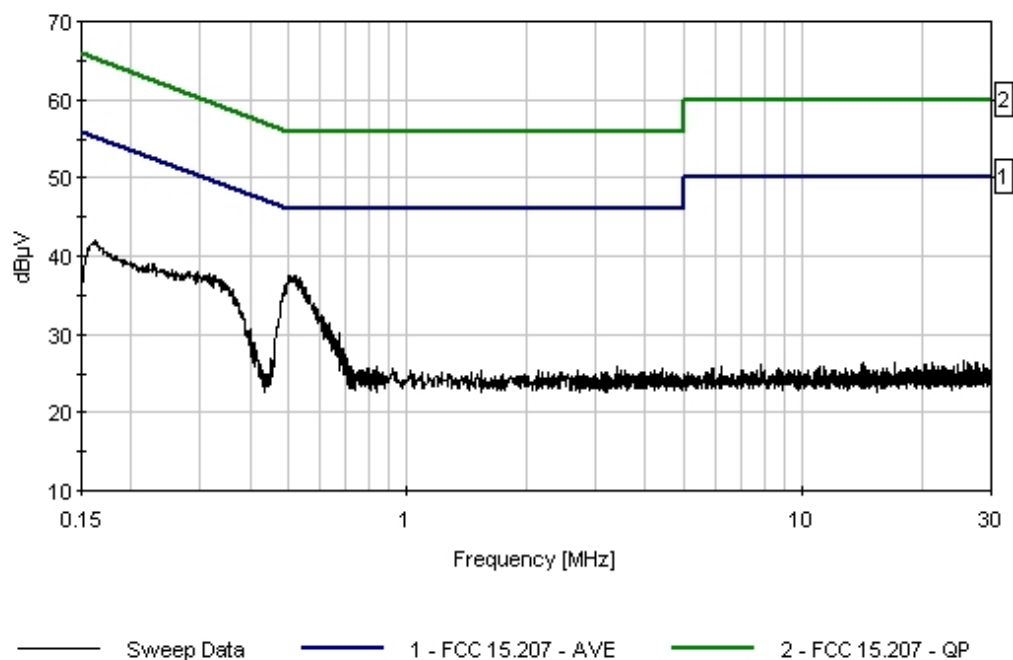
Transducer Legend:

T1=Cable - Internal + cab	T2=LISN Insertion Loss s/n280
T3=HP Filter AN02608	

Measurement Data: Reading listed by margin. Test Lead: Black

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	Dist dB	Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	518.690k	36.9	+0.1	+0.3	+0.3	+0.0		37.6	46.0	-8.4	Black
2	163.090k	40.1	+0.1	+0.3	+1.5	+0.0		42.0	55.3	-13.3	Black
3	3.399M	25.1	+0.3	+0.3	+0.1	+0.0		25.8	46.0	-20.2	Black
4	25.648M	25.5	+0.5	+0.5	+0.2	+0.0		26.7	50.0	-23.3	Black
5	17.102M	25.6	+0.4	+0.4	+0.1	+0.0		26.5	50.0	-23.5	Black
6	7.868M	25.2	+0.3	+0.5	+0.1	+0.0		26.1	50.0	-23.9	Black

CKC Laboratories Date: 08/31/2004 Time: 9:09:49 AM Davis Instruments WVO#: 82619
 FCC 15.207 - AVE Test Lead: Black 120V 60Hz Sequence#: 18
 Davis Instruments M/N 6312



Test Location: CKC Laboratories • 5473A Clouds Rest • Mariposa, CA 95338 • 1-800-500-4EMC (4362)

Customer: **Davis Instruments**
 Specification: **FCC 15.207 - AVE**
 Work Order #: **82619**
 Test Type: **Conducted Emissions**
 Equipment: **Console Monitoring Station**
 Manufacturer: Davis Instruments
 Model: 6312
 S/N: Davis 100

Date: 08/31/2004
 Time: 9:15:39 AM
 Sequence#: 19
 Tested By: Randal Clark
 120V 60Hz

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Console Monitoring Station*	Davis Instruments	6312	Davis 100

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	Davis Instruments	6625	NA
WeatherLink USB	Davis Instruments	6510USB	Davis 104

Test Conditions / Notes:

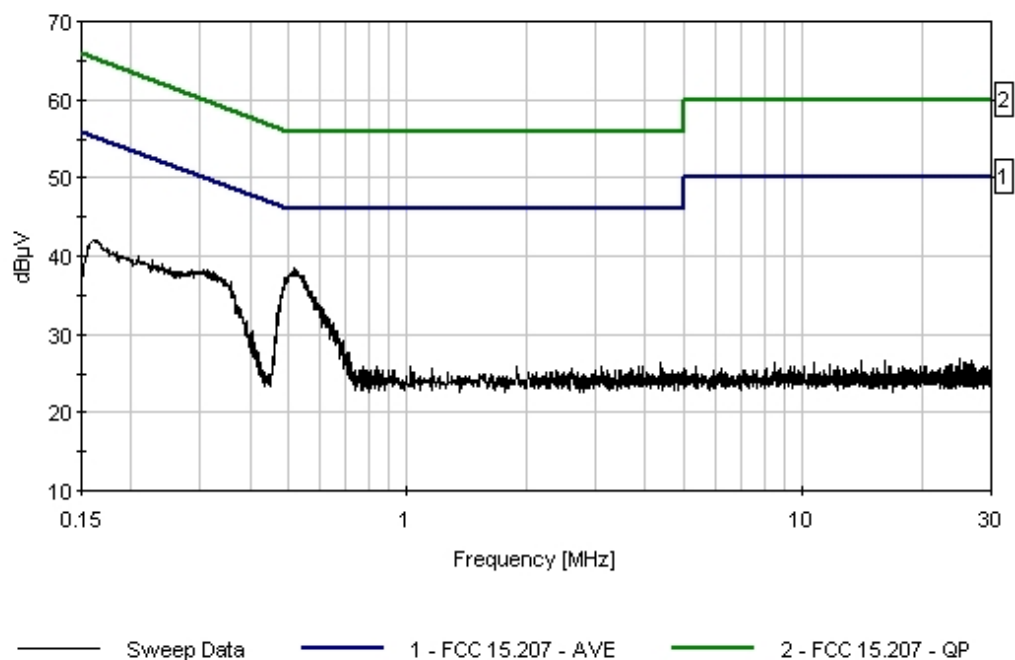
EUT is a console monitoring station. EUT is in transmit mode modulated with a constant high value. EUT is mounted vertically to simulate normal installation. Frequency Range Investigated: 150kHz-30MHz. Temperature: 22°C, Relative Humidity: 40%.

Transducer Legend:

T1=Cable - Internal + cab	T2=LISN Insertion Loss s/n276
T3=HP Filter AN02608	

Measurement Data:		Reading listed by margin.					Test Lead: White				
#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBµV	Spec dBµV	Margin dB	Polar Ant
1	518.690k	37.8	+0.1	+0.3	+0.3		+0.0	38.5	46.0	-7.5	White
2	162.362k	40.0	+0.1	+0.4	+1.6		+0.0	42.1	55.3	-13.2	White
3	4.364M	25.6	+0.3	+0.4	+0.1		+0.0	26.4	46.0	-19.6	White
4	25.073M	25.9	+0.5	+0.4	+0.2		+0.0	27.0	50.0	-23.0	White
5	26.621M	25.6	+0.5	+0.4	+0.2		+0.0	26.7	50.0	-23.3	White
6	14.021M	25.6	+0.4	+0.5	+0.1		+0.0	26.6	50.0	-23.4	White
7	16.219M	25.7	+0.4	+0.4	+0.1		+0.0	26.6	50.0	-23.4	White
8	25.950M	25.4	+0.5	+0.4	+0.2		+0.0	26.5	50.0	-23.5	White

CKC Laboratories Date: 08/31/2004 Time: 9:15:39 AM Davis Instruments WVO#: 82619
 FCC 15.207 - AVE Test Lead: White 120V 60Hz Sequence#: 19
 Davis Instruments M/N 6312



Test Location: CKC Laboratories • 5473A Clouds Rest • Mariposa, CA 95338 • 1-800-500-4EMC (4362)

Customer: **Davis Instruments**

Specification: **FCC 15.209**

Work Order #: **82619**

Date: 08/31/2004

Test Type: **Maximized Emissions**

Time: 15:27:58

Equipment: **Console Monitoring Station**

Sequence#: 21

Manufacturer: Davis Instruments

Tested By: Randal Clark

Model: 6312

S/N: Davis 100

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Console Monitoring Station*	Davis Instruments	6312	Davis 100

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	Davis Instruments	6625	NA
WeatherLink USB	Davis Instruments	6510USB	Davis 104

Test Conditions / Notes:

EUT is a console monitoring station. EUT is in transmit mode with constant carrier modulated with 1's. EUT is mounted vertically to simulate normal installation. Frequency Range Investigated: 30-1000MHz. Temperature: 23°C, Relative Humidity: 50%.

Transducer Legend:

T1=Amp - S/N 604	T2=Bilog Site B
T3=Cable - 3 Meter	

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist dB	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	927.521M	94.7	-27.2	+23.2	+7.3	+0.0	98.0	46.0 Tx 3, Ch. 50, Carrier	+52.0	Verti 106
2	914.976M	94.4	-27.3	+23.0	+7.4	+0.0	97.5	46.0 Tx 3, Ch. 25, Carrier	+51.5	Verti 100
3	902.448M	94.2	-27.3	+22.8	+7.5	+0.0	97.2	46.0 Tx, 1, Ch. 0, Carrier	+51.2	Verti 170
4	927.519M	86.7	-27.2	+23.2	+7.3	+0.0	90.0	46.0 Tx 3, Ch. 50, Carrier	+44.0	Horiz 100
5	902.446M	86.7	-27.3	+22.8	+7.5	+0.0	89.7	46.0 Tx, 1, Ch. 0, Carrier	+43.7	Horiz 220
6	914.983M	86.3	-27.3	+23.0	+7.4	+0.0	89.4	46.0 Tx 3, Ch. 25, Carrier	+43.4	Horiz 208
7	908.369M QP	40.7	-27.3	+22.9	+7.5	+0.0	43.8	46.0 Tx 1, Ch. 0	-2.2	Verti 167
^	908.356M	44.1	-27.3	+22.9	+7.5	+0.0	47.2	46.0 Tx 1, Ch. 0	+1.2	Verti 167

9	896.526M	40.8	-27.3	+22.8	+7.5	+0.0	43.8	46.0	-2.2	Verti
	QP							Tx 1, Ch. 0		173
^	896.534M	44.4	-27.3	+22.8	+7.5	+0.0	47.4	46.0	+1.4	Verti
								Tx 1, Ch. 0		173
11	934.140M	39.5	-27.2	+23.3	+7.3	+0.0	42.9	46.0	-3.1	Verti
	QP							Tx 3, Ch. 50		157
^	934.148M	43.9	-27.2	+23.3	+7.3	+0.0	47.3	46.0	+1.3	Verti
								Tx 3, Ch. 50		157
13	920.896M	39.6	-27.3	+23.1	+7.4	+0.0	42.8	46.0	-3.2	Verti
	QP							Tx 3, Ch. 50		100
^	920.859M	43.4	-27.3	+23.1	+7.4	+0.0	46.6	46.0	+0.6	Verti
								Tx 3, Ch. 50		100
15	900.995M	39.4	-27.3	+22.8	+7.5	+0.0	42.4	46.0	-3.6	Verti
	QP							Tx 1, Ch. 0		173
^	900.991M	43.7	-27.3	+22.8	+7.5	+0.0	46.7	46.0	+0.7	Verti
								Tx 1, Ch. 0		173
17	907.259M	39.0	-27.3	+22.9	+7.5	+0.0	42.1	46.0	-3.9	Verti
	QP							Tx 3, Ch. 25		100
^	907.250M	42.9	-27.3	+22.9	+7.5	+0.0	46.0	46.0	+0.0	Verti
								Tx 3, Ch. 25		100
19	900.987M	38.6	-27.3	+22.8	+7.5	+0.0	41.6	46.0	-4.4	Horiz
								Tx 1, Ch. 0		100
20	903.899M	37.9	-27.3	+22.9	+7.5	+0.0	41.0	46.0	-5.0	Verti
	QP							Tx 1, Ch. 0		167
^	903.855M	42.5	-27.3	+22.9	+7.5	+0.0	45.6	46.0	-0.4	Verti
								Tx 1, Ch. 0		167
22	935.645M	37.0	-27.2	+23.3	+7.3	+0.0	40.4	46.0	-5.6	Verti
	QP							Tx 3, Ch. 50		100
^	935.629M	41.7	-27.2	+23.3	+7.3	+0.0	45.1	46.0	-0.9	Verti
								Tx 3, Ch. 50		100
24	889.150M	37.6	-27.4	+22.7	+7.4	+0.0	40.3	46.0	-5.7	Verti
	QP							Tx 1, Ch. 0		197
^	889.130M	42.8	-27.4	+22.7	+7.4	+0.0	45.5	46.0	-0.5	Verti
								Tx 1, Ch. 0		197
26	922.703M	37.1	-27.3	+23.1	+7.3	+0.0	40.2	46.0	-5.8	Verti
	QP							Tx 3, Ch. 25		164
^	922.697M	40.6	-27.3	+23.1	+7.3	+0.0	43.7	46.0	-2.3	Verti
								Tx 3, Ch. 25		164
28	907.954M	36.1	-27.3	+22.9	+7.5	+0.0	39.2	46.0	-6.8	Verti
	QP							Tx 3, Ch. 25		100
^	907.943M	42.3	-27.3	+22.9	+7.5	+0.0	45.4	46.0	-0.6	Verti
								Tx 3, Ch. 25		100
30	967.072M	42.9	-27.1	+23.8	+7.4	+0.0	47.0	54.0	-7.0	Verti
								Tx 1, Ch. 0		100
31	922.003M	35.3	-27.3	+23.1	+7.3	+0.0	38.4	46.0	-7.6	Verti
	QP							Tx 3, Ch. 25		100
^	921.979M	39.2	-27.3	+23.1	+7.3	+0.0	42.3	46.0	-3.7	Verti
								Tx 3, Ch. 25		100

33	874.894M QP	35.6	-27.5	+22.5	+7.4	+0.0	38.0	46.0 Tx 1, Ch. 0	-8.0	Verti 162
^	874.894M	41.4	-27.5	+22.5	+7.4	+0.0	43.8	46.0 Tx 1, Ch. 0	-2.2	Verti 162
35	869.816M QP	35.1	-27.5	+22.4	+7.3	+0.0	37.3	46.0 Tx 1, Ch. 0	-8.7	Verti 164
^	869.816M	41.4	-27.5	+22.4	+7.3	+0.0	43.6	46.0 Tx 1, Ch. 0	-2.4	Verti 164
37	876.298M QP	34.7	-27.5	+22.5	+7.4	+0.0	37.1	46.0 Tx 1, Ch. 0	-8.9	Verti 181
^	876.298M	42.8	-27.5	+22.5	+7.4	+0.0	45.2	46.0 Tx 1, Ch. 0	-0.8	Verti 181
39	889.580M QP	33.1	-27.4	+22.7	+7.4	+0.0	35.8	46.0 Tx 1, Ch. 0	-10.2	Verti 99
^	889.610M	39.7	-27.4	+22.7	+7.4	+0.0	42.4	46.0 Tx 1, Ch. 0	-3.6	Verti 99
41	867.806M QP	33.5	-27.6	+22.4	+7.3	+0.0	35.6	46.0 Tx 1, Ch. 0	-10.4	Verti 134
^	867.867M	39.8	-27.6	+22.4	+7.3	+0.0	41.9	46.0 Tx 1, Ch. 0	-4.1	Verti 134
43	451.249M	41.5	-27.5	+16.5	+4.8	+0.0	35.3	46.0 Tx 1, Ch. 0	-10.7	Verti 145
44	866.467M QP	33.1	-27.6	+22.3	+7.3	+0.0	35.1	46.0 Tx 1, Ch. 0	-10.9	Verti 100
^	866.533M	40.4	-27.6	+22.3	+7.3	+0.0	42.4	46.0 Tx 1, Ch. 0	-3.6	Verti 100
46	911.442M QP	31.6	-27.3	+23.0	+7.4	+0.0	34.7	46.0 Tx 3, Ch. 25	-11.3	Verti 100
^	911.405M	40.0	-27.3	+23.0	+7.4	+0.0	43.1	46.0 Tx 3, Ch. 25	-2.9	Verti 100
48	449.809M	40.5	-27.5	+16.5	+4.8	+0.0	34.3	46.0 Tx 1, Ch. 0	-11.7	Verti 145
49	451.244M	40.3	-27.5	+16.5	+4.8	+0.0	34.1	46.0 Tx 1, Ch. 0	-11.9	Horiz 178
50	449.809M	39.2	-27.5	+16.5	+4.8	+0.0	33.0	46.0 Tx 1, Ch. 0	-13.0	Horiz 221
51	450.481M	38.1	-27.5	+16.5	+4.8	+0.0	31.9	46.0 Tx 3, Ch. 25	-14.1	Verti 144
52	450.499M	36.6	-27.5	+16.5	+4.8	+0.0	30.4	46.0 Tx 3, Ch. 25	-15.6	Horiz 181
53	309.742M	38.1	-26.6	+13.1	+3.7	+0.0	28.3	46.0 Tx 1, Ch. 0	-17.7	Horiz 100
54	302.344M	37.5	-26.5	+12.9	+3.6	+0.0	27.5	46.0 Tx 3, Ch. 50	-18.5	Horiz 100
55	309.740M	36.5	-26.6	+13.1	+3.7	+0.0	26.7	46.0 Tx 1, Ch. 0	-19.3	Verti 100

Test Location: CKC Laboratories • 5473A Clouds Rest • Mariposa, CA 95338 • 1-800-500-4EMC (4362)

Customer: **Davis Instruments**
 Specification: **FCC 15.209**
 Work Order #: **82619** Date: 08/27/2004
 Test Type: **Maximized Emissions** Time: 12:27:03
 Equipment: **Console Monitoring Station** Sequence#: 6
 Manufacturer: Davis Instruments Tested By: Randal Clark
 Model: 6312
 S/N: Davis 100

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Console Monitoring Station*	Davis Instruments	6312	Davis 100

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	Davis Instruments	6625	NA
WeatherLink USB	Davis Instruments	6510USB	Davis 104

Test Conditions / Notes:

EUT is a console monitoring station. EUT is continuously transmitting data on the indicated channel. EUT is mounted vertically to simulate normal installation. Dwell time correction factor used in accordance with DA 00-705. Maximum packet length is 6.7ms which transmits once every 2.5625 seconds. Therefore, longest duration within a 100ms window is 7.4ms. Correction factor calculated as follows: $10 \cdot \text{LOG}(7.4/100) = -11.3\text{dB}$. Dwell time correction factor applied only to those frequencies which are harmonics of the carrier. Frequency Range Investigated: 1-10GHz. Temperature: 22°C, Relative Humidity: 50%.

Transducer Legend:

T1=Horn AN 00327 1-18GHz	T2=Cable HF P01527
T3=WL Gore SN 1065 AN P004301	T4=Cable HF-005-20
T5=Amp - S/N 301	T6=DTCF

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

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 T6 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	1804.720M	67.6	+26.4 -35.3	+0.3 -11.3	+0.6	+1.7	+0.0	50.0	54.0	-4.0	Horiz 170
2	1804.772M Ave	67.3	+26.4 -35.3	+0.3 -11.3	+0.6	+1.7	+0.0	49.7	54.0 2nd Harmonic Ch. 0	-4.3	Vert 136
^	1804.722M	67.9	+26.4 -35.3	+0.3 -11.3	+0.6	+1.7	+0.0	50.3	54.0 2nd Harmonic Ch. 0	-3.7	Vert 136
4	1829.720M	64.1	+26.5 -35.3	+0.3 -11.3	+0.6	+1.7	+0.0	46.6	54.0 2nd Harmonic Ch. 25	-7.4	Vert 135
5	1012.974M	65.0	+24.2 -36.2	+0.2 -11.3	+0.4	+1.2	+0.0	43.5	54.0	-10.5	Vert 136
6	1854.834M	60.7	+26.6 -35.3	+0.3 -11.3	+0.6	+1.7	+0.0	43.3	54.0 2nd Harmonic, Ch. 50	-10.7	Vert 100
7	1001.820M	64.8	+24.2 -36.2	+0.2 -11.3	+0.4	+1.2	+0.0	43.3	54.0	-10.7	Vert 212

8	1804.660M	60.8	+26.4 -35.3	+0.3 -11.3	+0.6	+1.7	+0.0	43.2	54.0	-10.8	Vert 122
9	1829.740M	60.2	+26.5 -35.3	+0.3 -11.3	+0.6	+1.7	+0.0	42.7	54.0	-11.3	Vert 136
10	1804.738M	59.5	+26.4 -35.3	+0.3 -11.3	+0.6	+1.7	+0.0	41.9	54.0 2nd Harmonic, Ch. 0	-12.1	Horiz 216
11	1000.653M	62.2	+24.2 -36.2	+0.2 -11.3	+0.4	+1.2	+0.0	40.7	54.0	-13.3	Vert 229
12	1829.900M	57.8	+26.5 -35.3	+0.3 -11.3	+0.6	+1.7	+0.0	40.3	54.0 2nd Harmonic, Ch. 25	-13.7	Horiz 219
13	1854.903M	57.2	+26.6 -35.3	+0.3 -11.3	+0.6	+1.7	+0.0	39.8	54.0	-14.2	Horiz 210
14	1000.690M	60.4	+24.2 -36.2	+0.2 -11.3	+0.4	+1.2	+0.0	38.9	54.0	-15.1	Vert 109
15	1949.310M	50.4	+27.0 -35.2	+0.4 -11.3	+0.6	+1.8	+0.0	33.7	54.0	-20.3	Vert 179
16	2342.061M	47.9	+28.1 -35.1	+0.4 -11.3	+0.6	+1.9	+0.0	32.5	54.0	-21.5	Vert 100
17	2334.778M	47.7	+28.1 -35.1	+0.4 -11.3	+0.6	+1.9	+0.0	32.3	54.0	-21.7	Vert 137
18	2342.180M	47.6	+28.1 -35.1	+0.4 -11.3	+0.6	+1.9	+0.0	32.2	54.0	-21.8	Vert 109
19	2334.450M	47.6	+28.1 -35.1	+0.4 -11.3	+0.6	+1.9	+0.0	32.2	54.0	-21.8	Vert 109
20	2335.001M	47.4	+28.1 -35.1	+0.4 -11.3	+0.6	+1.9	+0.0	32.0	54.0	-22.0	Vert 153
21	2707.188M	45.8	+29.2 -35.0	+0.4 -11.3	+0.7	+2.1	+0.0	31.9	54.0	-22.1	Vert 110
22	2343.276M	47.3	+28.1 -35.1	+0.4 -11.3	+0.6	+1.9	+0.0	31.9	54.0	-22.1	Vert 110
23	2335.412M	46.5	+28.1 -35.1	+0.4 -11.3	+0.6	+1.9	+0.0	31.1	54.0	-22.9	Horiz 100
24	2341.831M	46.4	+28.1 -35.1	+0.4 -11.3	+0.6	+1.9	+0.0	31.0	54.0	-23.0	Horiz 100
25	1013.031M	51.7	+24.2 -36.2	+0.2 -11.3	+0.4	+1.2	+0.0	30.2	54.0	-23.8	Vert 100

Test Location: CKC Laboratories • 5473A Clouds Rest • Mariposa, CA 95338 • 1-800-500-4EMC (4362)

Customer: **Davis Instruments**

Specification: **15.247(b)(3)**

Work Order #: **82619**

Date: 08/31/2004

Test Type: **Maximized Emissions**

Time: 16:41:29

Equipment: **Console Monitoring Station**

Sequence#: 22

Manufacturer: Davis Instruments

Tested By: Randal Clark

Model: 6312

S/N: Davis 100

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Console Monitoring Station*	Davis Instruments	6312	Davis 100

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	Davis Instruments	6625	NA
WeatherLink USB	Davis Instruments	6510USB	Davis 104

Test Conditions / Notes:

EUT is a console monitoring station. EUT is in transmit mode with constant carrier modulated with 1's (TX 3, HOP 0) . EUT is mounted vertically to simulate normal installation. Frequency Range Investigated: Carrier. Temperature: 30°C, Relative Humidity: 50%.

Transducer Legend:

T1=Amp - S/N 604	T2=Bilog Site B
T3=Cable - 3 Meter	

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB		Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	927.524M	94.6	-27.2	+23.2	+7.3		+0.0	97.9	127.0	-29.1	Verti 101
2	914.979M	94.0	-27.3	+23.0	+7.4		+0.0	97.1	127.0	-29.9	Verti 100
3	902.436M	93.9	-27.3	+22.8	+7.5		+0.0	96.9	127.0	-30.1	Verti 100
4	914.980M	87.0	-27.3	+23.0	+7.4		+0.0	90.1	127.0	-36.9	Horiz 100
5	927.525M	86.8	-27.2	+23.2	+7.3		+0.0	90.1	127.0	-36.9	Horiz 100
6	902.440M	86.9	-27.3	+22.8	+7.5		+0.0	89.9	127.0	-37.1	Horiz 209