



ADDENDUM TO DAVIS INSTRUMENTS TEST REPORT FC05-023

FOR THE

VANTAGE PRO 2 WIRELESS REPEATER, 7626, 7627, 7653 & 7654

FCC PART 15 SUBPART C SECTIONS 15.207, 15.209, 15.247, SUBPART B SECTION 15.109 CLASS B AND RSS-210

COMPLIANCE

DATE OF ISSUE: JUNE 1, 2005

PREPARED FOR:

PREPARED BY:

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P.O. No.: 59029 W.O. No.: 83394 Date of test: May 5-27, 2005

Report No.: FC05-023A

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ADMINISTRATIVE INFORMATION

DATE OF TEST:	May 5-27, 2005
DATE OF RECEIPT:	May 5, 2005
MANUFACTURER:	Davis Instruments 3465 Diablo Avenue Hayward, CA 94545
REPRESENTATIVE:	Perry Dillon
TEST LOCATION:	CKC Laboratories, Inc. 5046 Sierra Pines Drive Mariposa, CA 95338
TEST METHOD:	ANSI C63.4 (2003), DA 02-2138 August 30, 2002, DA 00-705 March 30, 2000, KDB Publication No. 558074 and RSS-212
PURPOSE OF TEST:	To demonstrate the compliance of the Vantage Pro 2 Wireless Repeater, 7626, 7627, 7653 & 7654, with the requirements for FCC Part 15 Subpart C Sections 15.207, 15.209, 15.247, Subpart B Section 15.109 Class A and RSS-210 devices. Addendum A is to add information about the output power on page 19, revise the table on page 18 and revise the test type on pages 52-54.



FCC TO CANADA STANDARD CORRELATION MATRIX

Canadian	Canadian	FCC		
Standard	Section	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 File No.

Additional Testing Required Per RSS 210

Para	Description	Application	Mode / channel	Test Procedure
5.9.1	99% Bandwidth	ANT	4	RSS 210
			LMH	

CONDITIONS FOR COMPLIANCE

No modifications to the EUT were necessary to comply.

APPROVALS

Steve Behm, Director of Engineering Services

QUALITY ASSURANCE:

Joyce Shakker

Joyce Walker, Quality Assurance Administrative Manager

TEST PERSONNEL:

which Withi

Mike Wilkinson, Lab Manager

Randy Clark, EMC Engineer

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FCC 15.31	(e)	Voltage	Variations
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15.247(b)(1)/15.31(e) Voltage Variation on Peak Power								
CORRECTED READINGCORRECTED READINGCORRECTED READINGFREQUENCYdBµV/mdBµV/mdBµV/m								
MHz	85%	100%	115%	dBμV				
902.363	112.2	112.3	112.3	137.0				
914.907	112.3	112.3	112.3	137.0				
927.450	112.1	112.1	112.1	137.0				

FCC 15.31(m) Number Of Channels

This device was tested on three channels.

FCC 15.33(a) Frequency Ranges Tested

15.109 Radiated Emissions: 30 MHz – 10 GHz

15.207 Conducted Emissions: 150 kHz – 30 MHz

15.209/15.247 Radiated Emissions: 9 kHz – 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	9 kHz	150 kHz	200 Hz				
RADIATED 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 7626 and 7627 model antennas are an integral part of the EUT and are non-removable; therefore the EUTs comply with Section 15.203 of the FCC rules. The 7653 and 7654 external antennas use reverse polarity TNC; therefore the EUTs comply with Section 15.203 of the FCC rules.

Eut Operating Frequency

The EUT was operating at 902-928 MHz.



EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The customer declares the EUT tested by CKC Laboratories was representative of a production unit.

The transmitter is the same for all of the following models:

7626 has an integral antenna with AC power7627 has an integral antenna with solar power7653 has an external antenna with TNC connection with AC power7654 has an external antenna with TNC connection with solar power

EQUIPMENT UNDER TEST

Vantage Pro 2 Wireless Repeater

Manuf:	Davis Instruments	Manuf:	Davis Instruments
Model:	762y	Model:	765x
Serial:	Davis-762y-05	Serial:	Davis-765x-05
FCC ID:	IR2DWW765Y (pending)	FCC ID:	IR2DWW765Y (pending)

Vantage Pro 2 Wireless Repeater

PERIPHERAL DEVICES

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

Power Adapter

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



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 15.109 Six Highest Radiated Emission Levels										
FREQUENCY MHz	METER READING dBµV	COR Ant dB	RECTIO Amp dB	ON FACT Cable dB	CORS dB	CORRECTED READING dBµV/m	SPEC LIMIT dBµV/m	MARGIN DB	NOTES	
85.005	34.6	7.4	-26.9	2.1		17.2	40.0	-22.8	V	
902.000	18.3	22.8	-27.0	8.1		22.2	46.0	-23.8	Н	
902.000	18.0	22.8	-27.0	8.1		21.9	46.0	-24.1	Н	
915.000	18.2	23.0	-27.0	8.2		22.4	46.0	-23.6	V	
915.000	17.0	23.0	-27.0	8.2		21.2	46.0	-24.8	Н	
928.000	17.2	23.2	-27.0	8.2		21.6	46.0	-24.4	Н	

Test Method: Spec Limit:

ANSI C63.4 (2003) FCC Part 15 Subpart B Section 15.109 Class B NOTES:

H = Horizontal Polarization V = Vertical Polarization

COMMENTS: EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous. Receive Antenna configuration: External Connector Terminated. Frequency Range Investigated: 30MHz to 10GHz. Temperature: 20°C, Relative Humidity: 58%. Ambient levels recorded in the 902-928MHz band. No EUT signals detected within 20dB of the limit.



Table 2: FCC 15.111 Six Highest Radiated Emission Levels										
FREQUENCY MHz	METER READING dBµV	COR Ant dB	RECTIC	ON FACT Cable dB	ORS	CORRECTED READING dBµV/m	SPEC LIMIT dBµV/m	MARGIN DB	NOTES	
1828.828	39.5	0.0		0.9		40.4	50.0	-9.6	Ν	
2417.166	39.5	0.0		1.0		40.5	50.0	-9.5	Ν	
3658.157	39.3	0.0		1.3		40.6	50.0	-9.4	Ν	
6928.127	31.0	0.0		1.9		32.9	50.0	-17.1	N	
7106.305	31.4	0.0		1.9		33.3	50.0	-16.7	N	
7316.515	44.2	0.0		1.9		46.1	50.0	-3.9	N	

ANSI C63.4 (2003) FCC Part 15 Subpart B Section 15.111

3 Meters

NOTES: N = No Polarization

COMMENTS: EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous. Receive Antenna configuration: External Connector. Frequency Range Investigated: 9kHz to 10GHz. Temperature: 20°C, Relative Humidity: 58%.



Table 3: FCC 15.207 Six Highest Conducted Emission Levels											
FREQUENCY MHz	METER READING dBµV	COR Lisn dB	RECTIO HPF dB	ON FACT Cable dB	TORS dB	CORRECTED READING dBµV	SPEC LIMIT dBµV	MARGIN dB	NOTES		
0.330347	30.5	0.3	0.1	0.1		31.0	49.4	-18.4	W		
0.336892	28.3	0.3	0.1	0.1		28.8	49.3	-20.5	W		
0.339801	28.5	0.3	0.1	0.1		29.0	49.2	-20.2	W		
0.342710	28.9	0.3	0.1	0.1		29.4	49.1	-19.7	W		
0.355072	28.9	0.4	0.1	0.1		29.5	48.8	-19.3	W		
0.373252	27.3	0.4	0.1	0.1		27.9	48.4	-20.5	W		

Test Method:ANSI C63.4 (2003)Spec Limit:FCC Part 15 Subpart C Section 15.207

COMMENTS: EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Normal Mode. Antenna configuration: Integral Antenna. Frequency Range Investigated: 150kHz - 30MHz;Temperature: 23°C, Relative Humidity: 52%.

NOTES:

W = White Lead



FCC 15.247(a) AVERAGE TIME OF OCCUPANCY





FCC 15.247(a)(1) FREQUENCY SEPARATION





FCC 15.247(a)(1) NUMBER OF HOPPING CHANNELS





FCC 15.247(a)(1) DWELL TIME PER HOP TIME





FCC 15.247(a)/RSS-210 OCCUPIED BANDWIDTH LOW





FCC 15.247(a)/RSS-210 OCCUPIED BANDWIDTH MID





FCC 15.247(a)/RSS-210 OCCUPIED BANDWIDTH HIGH





Table 4: FCC 15.247(b)(2) Fundamental Emission Levels										
FREQUENCY MHz	METER READING dBµV	COR Ant dB	Amp dB	ON FACT Cable dB	ORS Dist dB	CORRECTED READING dBµV	SPEC LIMIT dBµV	MARGIN DB	NOTES	
902.363	111.9	0.0		0.6		112.5	137.0	-24.5	Ν	
914.900	111.8	0.0		0.6		112.4	137.0	-24.6	Ν	
927.449	111.5	0.0		0.6		112.1	137.0	-24.9	N	
Test Method: ANSI C63.4 (2001) NOTES: N = No Polarization										

Test Method: Spec Limit:

FCC Part 15 Subpart C Section 15.247(b)(2) Test Distance: No Distance

COMMENTS: EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Transmit Modulated. Antenna configuration: External Connector. Frequency Range Investigated: Carrier. Temperature: 20°C, Relative Humidity: 58%.



	Table 5: FCC 15.247(b)(3) Six Highest Radiated Emission Levels											
FREQUENCY MHz	METER READING dBµV	COR Ant dB	Amp dB	ON FACT Cable dB	CORS dB	CORRECTED READING dBµV/m	SPEC LIMIT dBµV/m	MARGIN DB	NOTES			
902.365	83.1	22.8	0.0	8.1		114.0	127.0	-13.0	V-2			
902.366	104.5	22.8	-27.0	8.1		108.4	127.0	-18.6	V-1			
914.908	103.5	23.0	-27.0	8.2		107.7	127.0	-19.3	V-1			
914.910	82.7	23.0	0.0	8.2		113.9	127.0	-13.1	V-2			
927.450	103.5	23.2	-27.0	8.2		107.9	127.0	-19.1	V-1			
927.453	82.1	23.2	0.0	8.2		113.5	127.0	-13.5	V-2			

ANSI C63.4 (2003) FCC Part 15 Subpart C Section 15.247(b)(3) 3 Meters NOTES:

V = Vertical Polarization 1 = Omni Antenna 2 = Yagi Antenna 3 = Integral Antenna

COMMENTS: EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Transmit Modulated. Antenna configuration: Integral (dedicated), External Yagi and External Omni. Frequency Range Investigated: Carrier. Data represents Low, Middle and High transmit frequencies. Temperature: 23°C, Relative Humidity: 52%

EUT EIRP are as follows: Integral Antenna = -17.7 dBW EIRP. Omni Antenna = -16.8 dBW EIRP. Yagi Antenna = -11.3 dBW EIRP.



	Table 6: FCC 15.247(c)/15.209 Six Highest OATS Radiated Emission Levels											
FREQUENCY MHz	METER READING dBµV	COR Ant dB	RECTIC Amp dB	ON FACT Cable dB	TORS dB	CORRECTED READING dBµV/m	SPEC LIMIT dBµV/m	MARGIN DB	NOTES			
2707.095	46.5	30.1	-34.4	8.4		50.6	54.0	-3.4	VA			
2707.100	40.0	30.1	-34.4	8.4		44.1	54.0	-9.9	HA			
2744.680	41.2	30.3	-34.4	8.5		45.6	54.0	-8.4	VA			
2782.300	44.3	30.4	-34.4	8.5		48.8	54.0	-5.2	VA			
2782.325	45.1	30.4	-34.4	8.5		49.6	54.0	-4.4	VA			
2782.400	44.4	30.4	-34.4	8.5		48.9	54.0	-5.1	Н			

ANSI C63.4 (2003) FCC Part 15 Subpart C Section 15.247(c)/15.209 3 Meters

NOTES:

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

COMMENTS: EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Transmit Modulated. Antenna configuration: Integral (dedicated), External Yagi and External Omni. Frequency Range Investigated: 9kHz to 10 GHz. Data represents Low, Middle and High transmit frequencies. Temperature: 23°C, Relative Humidity: 52%. Where average readings apply, a dwell time correction factor is applied in accordance with DA 00-705 20*LOG(Dwell/100ms). Dwell time per hop is 7ms, therefore CF = 20*LOG(7ms/100ms) = -23.1dB. This table represents testing of the integral, Yagi and Omni antennas, but all the highest readings came from the integral antenna.



	Table 7: FCC 15.247(c) Six Highest Antenna Conducted Emission Levels										
FREQUENCY MHz	METER READING dBµV	COR Ant dB	RECTION FACTORS Cable dB		CORRECTED READING dBµV/m	SPEC LIMIT dBµV/m	MARGIN DB	NOTES			
1804.804	52.8	0.0	0.9		53.7	92.5	-38.8	N-1			
1829.829	52.4	0.0	0.9		53.3	92.5	-39.2	N-2			
1854.854	52.5	0.0	0.9		53.4	92.5	-39.1	N-3			
2468.467	65.8	0.0	1.0		66.8	92.5	-25.7	N-3			
2478.477	62.2	0.0	1.0		63.2	92.5	-29.3	N-3			
2706.705	50.4	0.0	1.1		51.5	92.5	-41.0	N-1			

ANSI C63.4 (2003) FCC Part 15 Subpart C Section 15.247(c) No Distance NOTES:

N = No Polarization V = Vertical Polarization 1 = Channel 0 2 = Channel 25 3 = Channel 50

COMMENTS: EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Transmit Modulated, Channel 0 (Low). Antenna configuration: External Connector. Frequency Range Investigated: 1 MHz to 10 GHz. Temperature: 20°C, Relative Humidity: 58%.



FCC 15.247(c) BAND EDGE INTEGRAL ANTENNA LOW CHANNEL





FCC 15.247(c) BAND EDGE INTEGRAL ANTENNA HIGH CHANNEL





FCC 15.247(c) BAND EDGE EXTERNAL OMNI ANTENNA LOW CHANNEL





FCC 15.247(c) BAND EDGE EXTERNAL OMNI ANTENNA HIGH CHANNEL





FCC 15.247(c) BAND EDGE EXTERNAL YAGI ANTENNA LOW CHANNEL





FCC 15.247(c) BAND EDGE EXTERNAL YAGI ANTENNA HIGH CHANNEL





FCC 15.247 BAND EDGE CONDUCTED LOW CHANNEL





FCC 15.247 BAND EDGE CONDUCTED HIGH CHANNEL





TEMPERATURE AND HUMIDITY DURING TESTING

The temperature during testing was within $+15^{\circ}$ C and $+35^{\circ}$ 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 $dB\mu V/m$, the spectrum analyzer reading in $dB\mu V$ was corrected by using the following formula in Table A. This reading was then compared to the applicable specification limit to determine compliance.

TA	BLE A: SAMPLE CAL	CULATIONS
	Meter reading	(dBµV)
+	Antenna Factor	(dB)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	$(dB\mu V/m)$



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 9 kHz to 30 MHz, the magnetic loop antenna was used. 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 dBuV, 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 μ H-/+50 ohms. Above 150 kHz, a 0.15 μ F 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.

Antenna Conducted Emissions

For measuring the signal strength on the RF output port of the EUT, the spectrum analyzer was connected directly to the EUT. The sweep time of the analyzer was adjusted so that the spectrum analyzer readings were always in a calibrated range. All readings within 20 dB of the limit were recorded.

Radiated Emissions

The EUT was mounted on a nonconductive, rotating table 80 cm above the conductive grid. The nonconductive table dimensions were .5 meter by .5 meters.

During the preliminary radiated scan, the EUT was powered up and operating in its defined FCC test mode. For radiated measurements from 9 kHz to 30 MHz, the magnetic loop antenna was used. 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

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Radiated Emissions - Front View

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Omni Antenna





Yagi Antenna





Radiated Emissions - Receiver

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PHOTOGRAPH SHOWING MAINS CONDUCTED EMISSIONS



Mains Conducted Emissions - Front View



PHOTOGRAPH SHOWING DIRECT CONNECT TEST SETUP



Transmitter

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PHOTOGRAPH SHOWING DIRECT CONNECT TEST SETUP



Receiver

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APPENDIX B

TEST EQUIPMENT LIST

15.109				
Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4446A SA	US44300407	01/12/2005	01/12/2007	02660
Chase CBL6111C Bilog	2456	06/26/2003	06/26/2005	01991
EMCO 3115 Horn Antenna	9307-4085	04/29/2005	04/29/2007	00656
HP 8447D Preamp	1937A02604	03/11/2005	03/11/2007	00099
HP 8449B Preamp	3008A00301	12/14/2004	12/14/2006	2010
Cable, Pasternack 36"	NA	02/08/2005	02/08/2007	P05202
Cable, Andrews Hardline HF-005-20	NA	06/03/2003	06/03/2005	P04275
·				
15.111				
Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4446A SA	US44300407	01/12/2005	01/12/2007	02660
Cable, Pasternack 36"	NA	02/08/2005	02/08/2007	P05202
15.207				
Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4446A SA	US44300407	01/12/2005	01/12/2007	02660
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
15.31(e)/15.247(a)/15.247(b)(1)/15.24	ł7(b)(2)			
Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4446A SA	US44300407	01/12/2005	01/12/2007	02660
Cable, Pasternack 36"	NA	02/08/2005	02/08/2007	P05202
15.247(b)(3)				
Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4446A SA	US44300407	01/12/2005	01/12/2007	02660
Chase CBL6111C Bilog	2456	06/26/2003	06/26/2005	01991
HP 8447D Preamp	1937A02604	03/11/2005	03/11/2007	00099
15.247(c) OATS				
Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4446A SA	US44300407	01/12/2005	01/12/2007	02660
Chase CBL6111C Bilog	2456	06/26/2003	06/26/2005	01991
EMCO 3115 Horn Antenna	9307-4085	04/29/2005	04/29/2007	00656
HP 8447D Preamp	1937A02604	03/11/2005	03/11/2007	00099
HP 8449B Preamp	3008A00301	12/14/2004	12/14/2006	2010
Cable, Pasternack 36"	NA	02/08/2005	02/08/2007	P05202
Cable, Andrews Hardline HF-005-20	NA	06/03/2003	06/03/2005	P04275
EMCO Loop Antenna	1074	05/13/2005	05/13/2007	00226
· · · · · ·				
15.247(c) Antenna Conducted				
Function	S/N	Calibration Date	Cal Due Date	Asset #
Agilent E4446A SA	US44300407	01/12/2005	01/12/2007	02660
Cable, Pasternack 36"	NA	02/08/2005	02/08/2007	P05202
Transformer Powerstat 126	None	05/05/2005	05/05/2007	2037



APPENDIX C MEASUREMENT DATA SHEETS

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Customer: Specification:	Davis Instruments 15.109 CLASS B		0.5 /0.7 /0.00.5
Work Order #:	83394	Date:	05/27/2005
Test Type:	Maximized Emissions	Time:	10:39:00
Equipment:	VP2 Wireless Repeater	Sequence#:	16
Manufacturer:	Davis Instruments	Tested By:	Randal Clark
Model:	765x		
S/N:	Davis-765x-05		

Equipment Under Test (= EUT):*

Function	Manufacturer	Model #	S/N	
VP2 Wireless Repeater*	Davis Instruments	765x	Davis-765x-05	
Sunnart Devices				

Support Devices.			
Function	Manufacturer	Model #	S/N
Power Adapter	Davis Instruments	6625	NA

Test Conditions / Notes:

EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Recieve Antenna configuration: External Connector Terminated. Frequency Range Investigated: 30MHz to 10GHz. Temperature: 20°C, Relative Humidity: 58%. Ambient levels recorded in the 902-928MHz band. No EUT Signals detected within 20dB of the limit.

<u> </u>	
T1=Amp - S/N 604	T2=Bilog Site D
T3=Cable - 10 Meter	

Measu	rement Data:	Re	eading lis	ted by ma	argin.	Test Distance: 3 Meters					
#	Freq	Rdng	T1	T2	T3		Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	$dB\mu V/m$	dB	Ant
1	85.005M	34.6	-26.9	+7.4	+2.1		+0.0	17.2	40.0	-22.8	Vert
											115
2	915.000M	18.2	-27.0	+23.0	+8.2		+0.0	22.4	46.0	-23.6	Verti
											100
3	902.000M	18.3	-27.0	+22.8	+8.1		+0.0	22.2	46.0	-23.8	Horiz
											150
4	902.000M	18.0	-27.0	+22.8	+8.1		+0.0	21.9	46.0	-24.1	Horiz
											150
5	928.000M	17.2	-27.0	+23.2	+8.2		+0.0	21.6	46.0	-24.4	Horiz
											150
6	915.000M	17.0	-27.0	+23.0	+8.2		+0.0	21.2	46.0	-24.8	Horiz
											150
7	928.000M	15.4	-27.0	+23.2	+8.2		+0.0	19.8	46.0	-26.2	Verti
											100
8	902.000M	15.3	-27.0	+22.8	+8.1		+0.0	19.2	46.0	-26.8	Verti
											100



Customer:	Davis Instruments		
Specification:	FCC 15.111		
Work Order #:	83394	Date:	05/05/2005
Test Type:	Antenna Terminals	Time:	3:39:31 PM
Equipment:	VP2 Wireless Repeater	Sequence#:	2
Manufacturer:	Davis Instruments	Tested By:	Randal Clark
Model:	765x		
S/N:	Davis-765x-05		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
VP2 Wireless Repeater*	Davis Instruments	765x	Davis-765x-05	
Support Davias				

Support Devices:			
Function	Manufacturer	Model #	S/N
Power Adapter	Davis Instruments	6625	NA

Test Conditions / Notes:

EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Receive. Antenna configuration: External Connector. Frequency Range Investigated: 9kHz to 10GHz. Temperature: 20°C Relative Humidity: 58%.

Transducer Legend:

T1=Cable 40 GHz 36"

Measu	rement Data:	R	eading lis	ted by 1	nargin.	Test Distance: None					
#	Freq	Rdng	T1				Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	7316.515M	44.2	+1.9				+0.0	46.1	50.0	-3.9	None
2	3658.157M	39.3	+1.3				+0.0	40.6	50.0	-9.4	None
3	2417.166M	39.5	+1.0				+0.0	40.5	50.0	-9.5	None
4	1828.828M	39.5	+0.9				+0.0	40.4	50.0	-9.6	None
5	7106.305M	31.4	+1.9				+0.0	33.3	50.0	-16.7	None
6	6928.127M	31.0	+1.9				+0.0	32.9	50.0	-17.1	None
7	7063.262M	30.8	+1.9				+0.0	32.7	50.0	-17.3	None
8	7087.286M	30.8	+1.9				+0.0	32.7	50.0	-17.3	None
9	7128.327M	30.8	+1.9				+0.0	32.7	50.0	-17.3	None
10	6913.112M	30.6	+1.9				+0.0	32.5	50.0	-17.5	None



11 7122.321M	30.6	+1.9	+0.0	32.5	50.0	-17.5	None
12 7330.529M	29.8	+1.9	+0.0	31.7	50.0	-18.3	None
13 7726.925M	29.7	+2.0	+0.0	31.7	50.0	-18.3	None
14 6793.993M	29.5	+1.8	+0.0	31.3	50.0	-18.7	None
15 7562.761M	29.2	+1.9	+0.0	31.1	50.0	-18.9	None



Customer:	Davis Instruments		
Specification:	FCC 15.207 - AVE		
Work Order #:	83394	Date:	05/27/2005
Test Type:	Conducted Emissions	Time:	9:43:08 AM
Equipment:	VP2 Wireless Repeater	Sequence#:	14
Manufacturer:	Davis Instruments	Tested By:	Randal Clark
Model:	762y		120V 60Hz
S/N:	Davis-762y-05		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
VP2 Wireless Repeater*	Davis Instruments	762y	Davis-762y-05

Support Devices:			
Function	Manufacturer	Model #	S/N
Power Adapter	Davis Instruments	6625	NA

Test Conditions / Notes:

EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Normal Mode. Antenna configuration: Integral Antenna. Frequency Range Investigated: 150kHz - 30MHz. Temperature: 23°C, Relative Humidity: 52%.

0	
T1=Cable - Internal + cab	T2=LISN Insertion Loss s/n280
T3=HP Filter AN02608	

Measur	rement Data:	Re	eading lis	ted by ma	argin.	Test Lead: Black					
#	Freq	Rdng	T1	T2	Т3		Dist	Corr	Spec	Margin	Polar
	MHz	dBµŬ	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	345.618k	28.1	+0.1	+0.2	+0.1		+0.0	28.5	49.1	-20.6	Black
2	351.436k	27.2	+0.1	+0.3	+0.1		+0.0	27.7	48.9	-21.2	Black
3	269.989k	29.3	+0.1	+0.2	+0.2		+0.0	29.8	51.1	-21.3	Black
4	248.900k	29.6	+0.1	+0.2	+0.3		+0.0	30.2	51.8	-21.6	Black
5	303.441k	28.0	+0.1	+0.2	+0.2		+0.0	28.5	50.1	-21.6	Black
6	309.258k	27.9	+0.1	+0.2	+0.2		+0.0	28.4	50.0	-21.6	Black
7	315.076k	27.8	+0.1	+0.2	+0.1		+0.0	28.2	49.8	-21.6	Black
8	387.796k	25.7	+0.1	+0.3	+0.1		+0.0	26.2	48.1	-21.9	Black
9	327.438k	26.9	+0.1	+0.2	+0.1		+0.0	27.3	49.5	-22.2	Black
10	169.635k	31.4	+0.1	+0.3	+0.9		+0.0	32.7	55.0	-22.3	Black
11	245.264k	29.0	+0.1	+0.2	+0.3		+0.0	29.6	51.9	-22.3	Black



12	187.815k	31.1	+0.1	+0.3	+0.2	+0.0	31.7	54.1	-22.4	Black
13	272.898k	28.0	+0.1	+0.2	+0.2	+0.0	28.5	51.0	-22.5	Black
14	342.710k	26.2	+0.1	+0.2	+0.1	+0.0	26.6	49.1	-22.5	Black
15	212.540k	30.0	+0.1	+0.3	+0.1	+0.0	30.5	53.1	-22.6	Black

CKC Laboratories_Date: 05/27/2005_Time: 9:43:08 AM_Davis Instruments WO#: 83394 FCC 15.207 - AVE_Test Lead: Black 120V 60Hz Sequence#: 14 Davis Instruments M/N 762x





Customer:	Davis Instruments		
Specification:	FCC 15.207 - AVE		
Work Order #:	83394	Date:	05/27/2005
Test Type:	Conducted Emissions	Time:	9:45:38 AM
Equipment:	VP2 Wireless Repeater	Sequence#:	15
Manufacturer:	Davis Instruments	Tested By:	Randal Clark
Model:	762y		120V 60Hz
S/N:	Davis-762y-05		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
VP2 Wireless Repeater*	Davis Instruments	762y	Davis-762y-05

Support Devices:				
Function	Manufacturer	Model #	S/N	
Power Adapter	Davis Instruments	6625	NA	

Test Conditions / Notes:

EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Normal Mode. Antenna configuration: Integral Antenna. Frequency Range Investigated: 150kHz - 30MHz. Temperature: 23°C, Relative Humidity: 52%.

0	
T1=Cable - Internal + cab	T2=LISN Insertion Loss s/n276
T3=HP Filter AN02608	

Measur	rement Data:	Re	eading lis	ted by ma	argin.			Test Lea	d: White		
#	Freq	Rdng	T1	T2	Т3		Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	330.347k	30.5	+0.1	+0.3	+0.1		+0.0	31.0	49.4	-18.4	White
2	355.072k	28.9	+0.1	+0.4	+0.1		+0.0	29.5	48.8	-19.3	White
3	342.710k	28.9	+0.1	+0.3	+0.1		+0.0	29.4	49.1	-19.7	White
4	339.801k	28.5	+0.1	+0.3	+0.1		+0.0	29.0	49.2	-20.2	White
5	336.892k	28.3	+0.1	+0.3	+0.1		+0.0	28.8	49.3	-20.5	White
6	373.252k	27.3	+0.1	+0.4	+0.1		+0.0	27.9	48.4	-20.5	White
7	351.436k	27.1	+0.1	+0.4	+0.1		+0.0	27.7	48.9	-21.2	White
8	348.527k	27.0	+0.1	+0.4	+0.1		+0.0	27.6	49.0	-21.4	White
9	324.529k	27.6	+0.1	+0.3	+0.1		+0.0	28.1	49.6	-21.5	White
10	360.890k	26.5	+0.1	+0.4	+0.1		+0.0	27.1	48.7	-21.6	White



11	369.616k	26.3	+0.1	+0.4	+0.1	+0.0	26.9	48.5	-21.6	White
12	366.707k	26.0	+0.1	+0.4	+0.1	+0.0	26.6	48.6	-22.0	White
13	233.629k	29.2	+0.1	+0.4	+0.2	+0.0	29.9	52.3	-22.4	White
14	327.438k	26.5	+0.1	+0.3	+0.1	+0.0	27.0	49.5	-22.5	White
15	345.618k	26.1	+0.1	+0.3	+0.1	+0.0	26.6	49.1	-22.5	White
1										

CKC Laboratories_Date:_05/27/2005_Time: 9:45:38 AM_Davis Instruments WO#: 83394 FCC 15.207 - AVE_Test Lead: White 120V 60Hz Sequence#: 15 Davis Instruments M/N 762x





Customer: Specification:	Davis Instruments 15.247(b)(2)		
Work Order #:	83394	Date:	05/05/2005
Test Type:	Antenna Terminals	Time:	16:35:37
Equipment:	VP2 Wireless Repeater	Sequence#:	1
Manufacturer:	Davis Instruments	Tested By:	Randal Clark
Model:	765x		
S/N:	Davis-765x-05		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
VP2 Wireless Repeater*	Davis Instruments	765x	Davis-765x-05

Support Devices:			
Function	Manufacturer	Model #	S/N
Power Adapter	Davis Instruments	6625	NA

Test Conditions / Notes:

EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Transmit Modulated. Antenna configuration: External Connector. Frequency Range Investigated: Carrier. Temperature: 20°C, Relative Humidity: 58%.

Transducer Legend:

T1=Cable 40 GHz 36"

Measu	rement Data:	Reading listed by margin.				Test Distance: None					
#	Freq	Rdng	T1				Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	902.363M	111.9	+0.6				+0.0	112.5	137.0	-24.5	None
									Low Chan	nnel	
2	914.900M	111.8	+0.6				+0.0	112.4	137.0	-24.6	None
									Mid Chan	nel	
3	927.449M	111.5	+0.6				+0.0	112.1	137.0	-24.9	None
									High Char	nnel	



Customer: Specification: Work Order #: Test Type:	Davis Instruments 15.247(b)(3) 83394 Maximized Emissions	Date: Time:	05/25/2005 12:28:02
Equipment:	VP2 Wireless Repeater	Sequence#:	7
Manufacturer: Model: S/N:	Davis Instruments 762y Davis-762y-05	Tested By:	Randal Clark

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
VP2 Wireless Repeater*	Davis Instruments	762y	Davis-762y-05	
Support Daviers				

Support Devices.			
Function	Manufacturer	Model #	S/N
Power Adapter	Davis Instruments	6625	NA

Test Conditions / Notes:

EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Transmit Modulated. Antenna configuration: Integral (dedicated). Frequency Range Investigated: Carrier. Data represents Low, Middle and High transmit frequencies. Temperature: 23°C, Relative Humidity: 52%.

T1=Amp - S/N 604	T2=Bilog Site D
T3=Cable - 10 Meter	

Measu	rement Data:	Re	Reading listed by margin.			n. Test Distance: 3 Meters					
#	Freq	Rdng	T1	T2	Т3		Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	914.908M	99.8	-27.0	+23.0	+8.2		+0.0	104.0	127.0	-23.0	Vert
2	902.368M	99.9	-27.0	+22.8	+8.1		+0.0	103.8	127.0	-23.2	Vert
3	927.452M	99.3	-27.0	+23.2	+8.2		+0.0	103.7	127.0	-23.3	Vert
4	902.365M	99.2	-27.0	+22.8	+8.1		+0.0	103.1	127.0	-23.9	Horiz
5	914.908M	98.4	-27.0	$+2\overline{3.0}$	+8.2		+0.0	102.6	127.0	-24.4	Horiz
6	927.452M	97.5	-27.0	+23.2	+8.2		+0.0	101.9	127.0	-25.1	Horiz



Customer: Specification: Work Order #:	Davis Instruments 15.247(b)(3) 83394 Marianizad Enviroinna	Date:	05/26/2005
Test Type:	Maximized Emissions	I ime:	09:22:29
Equipment:	VP2 Wireless Repeater	Sequence#:	10
Manufacturer:	Davis Instruments	Tested By:	Randal Clark
Model:	765x		
S/N:	Davis-765x-05		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
VP2 Wireless Repeater*	Davis Instruments	765x	Davis-765x-05	
Sunnart Devices				

Support Devices.			
Function	Manufacturer	Model #	S/N
Power Adapter	Davis Instruments	6625	NA

Test Conditions / Notes:

EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Transmit Modulated. Antenna configuration: External Yagi. Frequency Range Investigated: Carrier. Data represents Low, Middle and High transmit frequencies. Temperature: 23°C, Relative Humidity: 52%.

Transducer Legend:

T1=Bilog Site D

T2=Cable - 10 Meter

<i>Measurement Data:</i> Reading listed by margin.				Τe	est Distance	e: 3 Meters					
#	Freq	Rdng	T1	T2			Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	902.365M	83.1	+22.8	+8.1			+0.0	114.0	127.0	-13.0	Verti
											100
2	914.910M	82.7	+23.0	+8.2			+0.0	113.9	127.0	-13.1	Verti
											144
3	927.453M	82.1	+23.2	+8.2			+0.0	113.5	127.0	-13.5	Verti
											144
4	914.911M	68.9	+23.0	+8.2			+0.0	100.1	127.0	-26.9	Horiz
											129
5	902.364M	68.2	+22.8	+8.1			+0.0	99.1	127.0	-27.9	Horiz
											136
6	927.453M	67.6	+23.2	+8.2			+0.0	99.0	127.0	-28.0	Horiz
											190



Customer: Specification: Work Order #:	Davis Instruments 15.247(b)(3) 83394 Movimized Emissions	Date:	05/27/2005
Test Type:	Maximized Emissions	1 ime:	09:11:50
Equipment:	VP2 Wireless Repeater	Sequence#:	12
Manufacturer:	Davis Instruments	Tested By:	Randal Clark
Model:	765x		
S/N:	Davis-765x-05		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
VP2 Wireless Repeater*	Davis Instruments	765x	Davis-765x-05
Sunnart Davicas:			

Support Devices.				
Function	Manufacturer	Model #	S/N	
Power Adapter	Davis Instruments	6625	NA	

Test Conditions / Notes:

EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Transmit Modulated. Antenna configuration: External Omni. Frequency Range Investigated: Carrier. Data represents Low, Middle and High transmit frequencies. Temperature: 23°C, Relative Humidity: 52%.

T1=Amp - S/N 604	T2=Bilog Site D
T3=Cable - 10 Meter	

Measu	rement Data:	Re	Reading listed by margin.			n. Test Distance: 3 Meters					
#	Freq	Rdng	T1	T2	Т3		Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	$dB\mu V/m$	dB	Ant
1	902.366M	104.5	-27.0	+22.8	+8.1		+0.0	108.4	127.0	-18.6	Verti
											141
2	927.450M	103.5	-27.0	+23.2	+8.2		+0.0	107.9	127.0	-19.1	Verti
											165
3	914.908M	103.5	-27.0	+23.0	+8.2		+0.0	107.7	127.0	-19.3	Verti
											166
4	927.448M	90.7	-27.0	+23.2	+8.2		+0.0	95.1	127.0	-31.9	Horiz
											146
5	902.365M	91.2	-27.0	+22.8	+8.1		+0.0	95.1	127.0	-31.9	Horiz
											137
6	914.908M	90.2	-27.0	+23.0	+8.2		+0.0	94.4	127.0	-32.6	Horiz
											163



Customer: Specification: Work Order #: Test Type:	Davis Instruments 15.247(c)/15.209 83394 Maximized Emissions	Date: Time:	05/26/2005 11:49:46
Equipment:	VP2 Wireless Repeater	Sequence#:	8
Manufacturer: Model: S/N:	Davis Instruments 762y Davis-762y-05	Tested By:	Randal Clark

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
VP2 Wireless Repeater*	Davis Instruments	762y	Davis-762y-05

Support Devices:		
Function	Manufacturer	ן

Function	Manufacturer	Model #	S/N
Power Adapter	Davis Instruments	6625	NA

Test Conditions / Notes:

EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Transmit Modulated. Antenna configuration: Integral (dedicated). Frequency Range Investigated: 9kHz to 10GHz. Data represents Low, Middle and High transmit frequencies. Temperature: 23°C, Relative Humidity: 52%.

T1=Amp - S/N 604	T2=Bilog Site D
T3=Cable - 10 Meter	T4=Amp - S/N 301
T5=Horn AN 00656 1-18 GHz (Mariposa)	T6=Cable 40 GHz 36"
T7=Cable - 3 Meter to bulkhead	T8=Cable HF-005-20
T9=Mag Loop - AN 00226 - 9kHz-30M	

Measurement Data:	R	eading lis	ted by ma	argin.		Те	est Distance	e: 3 Meters	5	
# Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
		T5	T6	Τ7	T8					
		Т9								
MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1 2707.095M	46.5	+0.0	+0.0	+0.0	-34.4	+0.0	50.6	54.0	-3.4	Verti
Ave		+30.1	+1.1	+5.2	+2.1					107
^ 2707.095M	50.4	+0.0	+0.0	+0.0	-34.4	+0.0	54.5	54.0	+0.5	Verti
		+30.1	+1.1	+5.2	+2.1					107
3 2782.325M	45.1	+0.0	+0.0	+0.0	-34.4	+0.0	49.6	54.0	-4.4	Verti
Ave		+30.4	+1.1	+5.3	+2.1					107
^ 2782.325M	48.2	+0.0	+0.0	+0.0	-34.4	+0.0	52.7	54.0	-1.3	Verti
		+30.4	+1.1	+5.3	+2.1					107
5 2782.400M	44.4	+0.0	+0.0	+0.0	-34.4	+0.0	48.9	54.0	-5.1	Horiz
		+30.4	+1.1	+5.3	+2.1					134



6 2782.300M Ave	44.3	+0.0 +30.4	$^{+0.0}_{+1.1}$	+0.0 +5.3	-34.4 +2.1	+0.0	48.8	54.0	-5.2	Verti 134
7 2744.680M Ave	41.2	+0.0 +30.3	$^{+0.0}_{+1.1}$	+0.0 +5.3	-34.4 +2.1	+0.0	45.6	54.0	-8.4	Verti 121
^ 2744.730M	46.2	+0.0 +30.3	$^{+0.0}_{+1.1}$	+0.0 +5.3	-34.4 +2.1	+0.0	50.6	54.0	-3.4	Verti 121
9 2707.100M Ave	40.0	+0.0 +30.1	$^{+0.0}_{+1.1}$	+0.0 +5.2	-34.4 +2.1	+0.0	44.1	54.0	-9.9	Horiz 134
10 85.005M	34.6	-26.9	+7.4	+2.1		+0.0	17.2	40.0	-22.8	Vert
11 1829.820M	61.9	+0.0 +27.5	+0.0 +0.9	+0.0 +4.2	-35.1 +1.7	+0.0	61.1	84.0 not within restricted b limit is 200	-22.9 a band: lBc	Verti 121
12 1804.660M	61.7	+0.0 +27.4	+0.0 +0.9	+0.0 +4.2	-35.1 +1.7	+0.0	60.8	84.0 not within restricted b limit is 200	-23.2 a band: lBc	Verti 118
13 1804.680M	61.1	+0.0 +27.4	+0.0 +0.9	+0.0 +4.2	-35.1 +1.7	+0.0	60.2	84.0 not within restricted b limit is 200	-23.8 a band: lBc	Horiz 134
14 1854.800M	59.5	+0.0 +27.6	+0.0 +0.9	+0.0 +4.2	-35.1 +1.7	+0.0	58.8	84.0 not within restricted b limit is 200	-25.2 a band: lBc	Verti 100
15 1829.800M	58.9	+0.0 +27.5	+0.0 +0.9	+0.0 +4.2	-35.1 +1.7	+0.0	58.1	84.0 not within restricted b limit is 200	-25.9 a band: lBc	Horiz 134
16 1854.885M	57.5	+0.0 +27.6	+0.0 +0.9	+0.0 +4.2	-35.1 +1.7	+0.0	56.8	84.0 not within restricted b limit is 200	-27.2 a band: lBc	Horiz 133
17 929.880M Ambient	49.2	-27.0	+23.2	+8.2		+0.0	53.6	84.0	-30.4	Verti 125
18 929.600M Ambient	42.8	-27.0	+23.2	+8.2		+0.0	47.2	84.0	-36.8	Verti 125
19 934.065M	36.8	-27.0	+23.3	+8.1		+0.0	41.2	84.0	-42.8	Horiz 128



20	934.085M Ave	36.7	-27.0	+23.3	+8.1	+0.0	41.1	84.0	-42.9	Verti 125
^	934.078M	39.3	-27.0	+23.3	+8.1	+0.0	43.7	84.0	-40.3	Verti 125
22	929.986M	36.6	-27.0	+23.2	+8.2	+0.0	41.0	84.0	-43.0	Verti 131
23	899.827M	36.9	-27.0	+22.8	+8.1	+0.0	40.8	84.0	-43.2	Verti 131
24	899.815M	36.7	+0.0	+0.0	+0.0	+0.0	40.6	84.0	-43.4	Horiz
25	935.563M	35.9	-27.0	+23.3	+8.1	+0.0	40.3	84.0	-43.7	Verti 125
26	902.000M	35.8	-27.0	+22.8	+8.1	+0.0	39.7	84.0	-44.3	Vert
27	900.895M Ave	34.2	-27.0	+22.8	+8.1	+0.0	38.1	84.0	-45.9	Vert
^	900.895M	38.8	-27.0	+22.8	+8.1	+0.0	42.7	84.0	-41.3	Vert
29	900.905M Ave	34.1	-27.0	+22.8	+8.1	+0.0	38.0	84.0	-46.0	Horiz
^	900.905M	39.8	-27.0	+22.8	+8.1	+0.0	43.7	84.0	-40.3	Horiz
31	928.000M	32.7	-27.0	+23.2	+8.2	+0.0	37.1	84.0	-46.9	Verti 125
32	929.978M	32.3	+0.0	+0.0	+0.0	+0.0	36.7	84.0	-47.3	Horiz



Customer: Specification: Work Order #:	Davis Instruments 15.247(c)/15.209 83394 Maximized Emissions	Date:	05/26/2005
Test Type:	Maximized Emissions	Time:	13:40:30
Equipment:	VP2 Wireless Repeater	Sequence#:	9
Manufacturer: Model:	Davis Instruments 765x	Tested By:	Randal Clark
S/N:	Davis-765x-05		

Equipment Under Test (* = EUT):

	,			
Function	Manufacturer	Model #	S/N	
VP2 Wireless Repeater*	Davis Instruments	765x	Davis-765x-05	
Support Devices:				

Function	Manufacturer	Model #	S/N	
Power Adapter	Davis Instruments	6625	NA	

Test Conditions / Notes:

EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Transmit Modulated. Antenna configuration: External Yagi. Frequency Range Investigated: 9kHz to 10GHz. Data represents Low, Middle and High transmit frequencies. Temperature: 23°C, Relative Humidity: 52%. Where average readings apply, a dwell time correction factor is applied in accordance with DA 00-705 20*LOG(Dwell/100ms). Dwell time per hop is 7ms, therefore CF = 20*LOG(7ms/100ms) = -23.1dB.

T2=Bilog Site D T4=Amp - S/N 301 T6=Cable 40 GHz 36" T8=Cable HF-005-20

T1=Amp - S/N 604
T3=Cable - 10 Meter
T5=Horn AN 00656 1-18 GHz (Mariposa)
T7=Cable - 3 Meter to bulkhead
T9=DTCF - 7ms Dwell Time

Measu	rement Data:	R	eading lis	ted by ma	argin.		Т	est Distanc	e: 3 Meters	5	
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	Τ7	T8					
			Т9								
	MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	2782.330M	45.6	+0.0	+0.0	+0.0	-34.4	+0.0	27.0	54.0	-27.0	Horiz
			+30.4	+1.1	+5.3	+2.1					100
			-23.1								
2	2782.330M	45.3	+0.0	+0.0	+0.0	-34.4	+0.0	26.7	54.0	-27.3	Verti
			+30.4	+1.1	+5.3	+2.1					172
			-23.1								
3	2707.130M	45.5	+0.0	+0.0	+0.0	-34.4	+0.0	26.5	54.0	-27.5	Horiz
			+30.1	+1.1	+5.2	+2.1					138
			-23.1								
4	2744.745M	45.1	+0.0	+0.0	+0.0	-34.4	+0.0	26.4	54.0	-27.6	Verti
			+30.3	+1.1	+5.3	+2.1					136
			-23.1								
5	2707.055M	42.6	+0.0	+0.0	+0.0	-34.4	+0.0	23.6	54.0	-30.4	Verti
			+30.1	+1.1	+5.2	+2.1					133
			-23.1								



6 2744.710M	41.7	+0.0	+0.0	+0.0	-34.4	+0.0	23.0	54.0	-31.0	Horiz
Ave		+30.3	+1.1	+5.3	+2.1					117
		-23.1								
^ 2744.755M	46.8	+0.0	+0.0	+0.0	-34.4	+0.0	28.1	54.0	-25.9	Horiz
		+30.3	+1.1	+5.3	+2.1					117
		-23.1								
8 2782.330M	41.5	+0.0	+0.0	+0.0	-34.4	+0.0	22.9	54.0	-31.1	Horiz
		+30.4	+1.1	+5.3	+2.1					100
		-23.1								
9 902.000M	46.0	-27.0	+22.8	+8.1	+0.0	+0.0	49.9	94.0	-44.1	Verti
		+0.0	+0.0	+0.0	+0.0					143
		+0.0								
10 928.000M	40.1	-27.0	+23.2	+8.2	+0.0	+0.0	44.5	94.0	-49.5	Verti
QP		+0.0	+0.0	+0.0	+0.0					143
		+0.0								
11 1829.776M	25.8	+0.0	+0.0	+0.0	+0.0	+0.0	37.0	94.0	-57.0	Verti
		+27.5	+0.9	+4.2	+1.7					100
		-23.1								
12 1804.725M	24.2	+0.0	+0.0	+0.0	+0.0	+0.0	35.3	94.0	-58.7	Verti
		+27.4	+0.9	+4.2	+1.7					133
		-23.1								
13 1804.708M	23.7	+0.0	+0.0	+0.0	+0.0	+0.0	34.8	94.0	-59.2	Horiz
		+27.4	+0.9	+4.2	+1.7					146
		-23.1								
14 1829.836M	23.6	+0.0	+0.0	+0.0	+0.0	+0.0	34.8	94.0	-59.2	Horiz
		+27.5	+0.9	+4.2	+1.7					145
		-23.1								
15 1854.902M	23.1	+0.0	+0.0	+0.0	+0.0	+0.0	34.4	94.0	-59.6	Horiz
		+27.6	+0.9	+4.2	+1.7					116
		-23.1								
16 1854.902M	21.9	+0.0	+0.0	+0.0	+0.0	+0.0	33.2	94.0	-60.8	Verti
		+27.6	+0.9	+4.2	+1.7					100
		-23.1								



Customer: Specification:	Davis Instruments 15.247(c)/15.209		
Work Order #:	83394	Date:	05/27/2005
Test Type:	Maximized Emissions	Time:	09:17:43
Equipment:	VP2 Wireless Repeater	Sequence#:	11
Manufacturer:	Davis Instruments	Tested By:	Randal Clark
Model:	765x		
S/N:	Davis-765x-05		

Equipment Under Test (* = EUT):

	,			
Function	Manufacturer	Model #	S/N	
VP2 Wireless Repeater*	Davis Instruments	765x	Davis-765x-05	
Support Devices:				

Function	Manufacturer	Model #	S/N	
Power Adapter	Davis Instruments	6625	NA	

Test Conditions / Notes:

EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Transmit Modulated. Antenna configuration: External Omni. Frequency Range Investigated: 9kHz to 10GHz. Data represents Low, Middle and High transmit frequencies. Temperature: 23°C, Relative Humidity: 52%. Where average readings apply, a dwell time correction factor is applied in accordance with DA 00-705 20*LOG(Dwell/100ms). Dwell time per hop is 7ms, therefore CF = 20*LOG(7ms/100ms) = -23.1dB.

T2=Bilog Site D T4=Amp - S/N 301 T6=Cable 40 GHz 36" T8=Cable HF-005-20

T1=Amp - S/N 604
T3=Cable - 10 Meter
T5=Horn AN 00656 1-18 GHz (Mariposa)
T7=Cable - 3 Meter to bulkhead
T9=DTCF - 7ms Dwell Time

Meası	irement Data:	R	Reading listed by margin.			Test Distance: 3 Meters					
#	Freq	Rdng	T1	T2	Т3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	Τ7	T8					
			Т9								
	MHz	dBµV	dB	dB	dB	dB	Table	$dB\mu V/m$	$dB\mu V/m$	dB	Ant
1	2707.080M	49.3	+0.0	+0.0	+0.0	-34.4	+0.0	30.3	54.0	-23.7	Verti
	Ave		+30.1	+1.1	+5.2	+2.1					100
			-23.1								
^	2707.080M	51.4	+0.0	+0.0	+0.0	-34.4	+0.0	32.4	54.0	-21.6	Verti
			+30.1	+1.1	+5.2	+2.1					100
			-23.1								
3	2782.375M	47.1	+0.0	+0.0	+0.0	-34.4	+0.0	28.5	54.0	-25.5	Verti
	Ave		+30.4	+1.1	+5.3	+2.1					100
			-23.1								
^	2782.375M	49.5	+0.0	+0.0	+0.0	-34.4	+0.0	30.9	54.0	-23.1	Verti
			+30.4	+1.1	+5.3	+2.1					100
			-23.1								

CKC AM Testing the Future

5	2707.080M Ave	45.3	+0.0 +30.1 -23.1	+0.0 +1.1	+0.0 +5.2	-34.4 +2.1	+0.0	26.3	54.0	-27.7	Horiz 137
^	2707.080M	47.8	+0.0 +30.1 -23.1	$^{+0.0}_{+1.1}$	+0.0 +5.2	-34.4 +2.1	+0.0	28.8	54.0	-25.2	Horiz 137
7	2744.705M Ave	44.1	+0.0 +30.3 -23.1	+0.0 +1.1	+0.0 +5.3	-34.4 +2.1	+0.0	25.4	54.0	-28.6	Verti 158
^	2744.705M	46.8	+0.0 +30.3 -23.1	+0.0 +1.1	+0.0 +5.3	-34.4 +2.1	+0.0	28.1	54.0	-25.9	Verti 158
9	2744.705M Ave	44.0	+0.0 +30.3 -23.1	+0.0 +1.1	+0.0 +5.3	-34.4 +2.1	+0.0	25.3	54.0	-28.7	Horiz 123
^	2744.705M	47.8	+0.0 +30.3 -23.1	+0.0 +1.1	+0.0 +5.3	-34.4 +2.1	+0.0	29.1	54.0	-24.9	Horiz 123
11	2782.380M Ave	43.4	+0.0 +30.4 -23.1	+0.0 +1.1	+0.0 +5.3	-34.4 +2.1	+0.0	24.8	54.0	-29.2	Horiz 113
^	2782.380M	46.6	+0.0 +30.4 -23.1	+0.0 +1.1	+0.0 +5.3	-34.4 +2.1	+0.0	28.0	54.0	-26.0	Horiz 113
13	896.460M	42.8	-27.0 +0.0 +0.0	+22.8 +0.0	+8.1 +0.0	+0.0 +0.0	+0.0	46.7	90.0	-43.3	Verti 141
14	900.905M	41.5	-27.0 +0.0 +0.0	+22.8 +0.0	+8.1 +0.0	+0.0 +0.0	+0.0	45.4	90.0	-44.6	Verti 141
15	902.000M	41.1	-27.0 +0.0 +0.0	+22.8 +0.0	+8.1 +0.0	+0.0 +0.0	+0.0	45.0	90.0	-45.0	Verti 141
16	934.080M	39.2	-27.0 +0.0 +0.0	+23.3 +0.0	+8.1 +0.0	+0.0 +0.0	+0.0	43.6	90.0	-46.4	Verti 167
17	928.000M	38.5	-27.0 +0.0 +0.0	+23.2 +0.0	+8.2 +0.0	+0.0 +0.0	+0.0	42.9	90.0	-47.1	Verti 167
18	899.820M	38.7	-27.0 +0.0 +0.0	+22.8 +0.0	+8.1 +0.0	+0.0 +0.0	+0.0	42.6	90.0	-47.4	Verti 141
19	935.600M	35.9	-27.0 +0.0 +0.0	+23.3 +0.0	+8.1 +0.0	+0.0 +0.0	+0.0	40.3	90.0	-49.7	Verti 167
20	948.820M	32.8	-27.0 +0.0 +0.0	+23.5 +0.0	+7.8 +0.0	+0.0 +0.0	+0.0	37.1	90.0	-52.9	Verti 167
21	1854.970M	25.5	+0.0 +27.6 -23.1	+0.0 +0.9	+0.0 +4.2	+0.0 +1.7	+0.0	36.8	90.0	-53.2	Horiz 107

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22	1804.708M	25.7	+0.0	+0.0	+0.0	+0.0	+0.0	36.8	90.0	-53.2	Horiz
			+27.4	+0.9	+4.2	+1.7					139
			-23.1								
23	1829.850M	25.2	+0.0	+0.0	+0.0	+0.0	+0.0	36.4	90.0	-53.6	Horiz
			+27.5	+0.9	+4.2	+1.7					110
			-23.1								
24	1854.970M	24.6	+0.0	+0.0	+0.0	+0.0	+0.0	35.9	90.0	-54.1	Verti
			+27.6	+0.9	+4.2	+1.7					150
			-23.1								
25	1829.790M	24.3	+0.0	+0.0	+0.0	+0.0	+0.0	35.5	90.0	-54.5	Verti
			+27.5	+0.9	+4.2	+1.7					119
			-23.1								
26	1804.728M	23.0	+0.0	+0.0	+0.0	+0.0	+0.0	34.1	90.0	-55.9	Verti
			+27.4	+0.9	+4.2	+1.7					185
			-23.1								



Customer:	Davis Instruments		
Specification:	15.247(c) Antenna Conducted		
Work Order #:	83394	Date:	05/06/2005
Test Type:	Antenna Terminals	Time:	9:58:55 AM
Equipment:	VP2 Wireless Repeater	Sequence#:	3
Manufacturer:	Davis Instruments	Tested By:	Randal Clark
Model:	765x		
S/N:	Davis-765x-05		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N	
VP2 Wireless Repeater*	Davis Instruments	765x	Davis-765x-05	

Support Devices:

Support Devices.			
Function	Manufacturer	Model #	S/N
Power Adapter	Davis Instruments	6625	NA

Test Conditions / Notes:

EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Transmit Modulated, Channel 0 (Low). Antenna configuration: External Connector. Frequency Range Investigated: 1MHz to 10GHz Temperature: 20°C, Relative Humidity: 58%.

Transducer Legend:

T1=Cable 40 GHz 36"

Measu	rement Data:	tta: Reading listed by margin			nargin.		Те	st Distan	ce: None		
#	Freq	Rdng	T1				Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	902.311M	111.9	+0.6				+0.0	112.5	137.0	-24.5	None
									Carrier - I	LOW	
									Channel		
2	1804.804M	52.8	+0.9				+0.0	53.7	92.5	-38.8	None
3	2706.705M	50.4	+1.1				+0.0	51.5	92.5	-41.0	None
4	896.426M	50.1	+0.6				+0.0	50.7	92.5	-41.8	None
5	900.990M	47.5	+0.6				+0.0	48.1	92.5	-44.4	None
6	903.873M	47.3	+0.6				+0.0	47.9	92.5	-44.6	None
7	791.801M	46.3	+0.6				+0.0	46.9	92.5	-45.6	None
8	1002.002M	46.0	+0.6				+0.0	46.6	92.5	-45.9	None
9	908.317M	45.4	+0.6				+0.0	46.0	92.5	-46.5	None
10	452.582M	44.9	+0.5				+0.0	45.4	92.5	-47.1	None



11	897.987M	44.8	+0.6	+0.0	45.4	92.5	-47.1	None
12 6	5983.978M	43.3	+1.9	+0.0	45.2	92.5	-47.3	None
13 3	3609.607M	43.7	+1.3	+0.0	45.0	92.5	-47.5	None
14 4	4511.508M	43.5	+1.4	+0.0	44.9	92.5	-47.6	None
15	889.098M	43.9	+0.6	+0.0	44.5	92.5	-48.0	None

CKC Laboratories_Date: 05/06/2005_Time: 9:58:55_AM_Davis Instruments WO#: 83394 15.247(c) Antenna Conducted_Test Distance: None_Sequence#: 3 Davis Instruments M/N 762xOV



- Sweep Data ______ 1 - 15.247(c) Antenna Conducted



Customer:	Davis Instruments		
Specification:	15.247(c) Antenna Conducted		
Work Order #:	83394	Date:	05/06/2005
Test Type:	Antenna Terminals	Time:	10:12:16 AM
Equipment:	VP2 Wireless Repeater	Sequence#:	4
Manufacturer:	Davis Instruments	Tested By:	Randal Clark
Model:	765x		
S/N:	Davis-765x-05		

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
VP2 Wireless Repeater*	Davis Instruments	765x	Davis-765x-05

Support Devices:

Support Devices.			
Function	Manufacturer	Model #	S/N
Power Adapter	Davis Instruments	6625	NA

Test Conditions / Notes:

EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Transmit Modulated, Channel 25 (Mid). Antenna configuration: External Connector. Frequency Range Investigated: 1MHz to 10GHz. Temperature: 20°C, Relative Humidity: 58%.

Transducer Legend:

T1=Cable 40 GHz 36"

Measu	rement Data:	R	eading lis	ted by r	nargin.		Те	st Distan	ce: None		
#	Freq	Rdng	T1				Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	914.924M	111.8	+0.6				+0.0	112.4	137.0	-24.6	None
									Carrier - N	Aid	
									Channel		
2	1829.829M	52.4	+0.9				+0.0	53.3	92.5	-39.2	None
3	2744.743M	47.7	+1.1				+0.0	48.8	92.5	-43.7	None
4	907.837M	47.9	+0.6				+0.0	48.5	92.5	-44.0	None
5	907.236M	47.3	+0.6				+0.0	47.9	92.5	-44.6	None
6	911.080M	45.5	+0.6				+0.0	46.1	92.5	-46.4	None
7	804.294M	45.4	+0.6				+0.0	46.0	92.5	-46.5	None
8	1001.001M	45.4	+0.6				+0.0	46.0	92.5	-46.5	None
9	899.789M	45.0	+0.6				+0.0	45.6	92.5	-46.9	None
10	4574.571M	44.1	+1.4				+0.0	45.5	92.5	-47.0	None
											-



11	907.597M	44.6	+0.6	+0.0	45.2	92.5	-47.3	None
12	3659.657M	43.6	+1.3	+0.0	44.9	92.5	-47.6	None
13	1038.038M	44.1	+0.7	+0.0	44.8	92.5	-47.7	None
14	1046.046M	44.0	+0.7	+0.0	44.7	92.5	-47.8	None
15	921.891M	44.0	+0.6	+0.0	44.6	92.5	-47.9	None

CKC Laboratories_Date: 05/06/2005_Time: 10:12:16 AM_Davis Instruments VVO#: 83394 15.247(c) Antenna Conducted_Test Distance: None_Sequence#: 4 Davis Instruments M/N 762xOV



Sweep Data 1 - 15.247(c) Antenna Conducted



Customer:	Davis Instruments		
Specification:	15.247(c) Antenna Conducted		
Work Order #:	83394	Date:	05/06/2005
Test Type:	Antenna Terminals	Time:	10:48:35 AM
Equipment:	VP2 Wireless Repeater	Sequence#:	5
Manufacturer:	Davis Instruments	Tested By:	Randal Clark
Model:	765x		
S/N:	Davis-765x-05		

Equipment Under Test (* = EUT):

Function Ma	anufacturer	Model #	S/N
VP2 Wireless Repeater* Da	avis Instruments	765x	Davis-765x-05

Support Devices:

Support Devices.			
Function	Manufacturer	Model #	S/N
Power Adapter	Davis Instruments	6625	NA

Test Conditions / Notes:

EUT is a repeater station for temperature monitoring systems. The equipment operates on a frequency range of 902-928MHz. Operating Configuration: Continuous Transmit Modulated, Channel 50 (High). Antenna configuration: External Connector. Frequency Range Investigated: 1MHz to 10GHz. Temperature: 20°C, Relative Humidity: 58%.

Transducer Legend:

T1=Cable 40 GHz 36"

Measu	rement Data:	R	eading lis	ted by n	nargin.		Те	st Distan	ce: None		
#	Freq	Rdng	T1				Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	927.417M	111.5	+0.6				+0.0	112.1	137.0	-24.9	None
									Carrier - H	ligh	
									Channel	•	
2	2468.467M	65.8	+1.0				+0.0	66.8	92.5	-25.7	None
3	2478.477M	62.2	+1.0				+0.0	63.2	92.5	-29.3	None
4	1854.854M	52.5	+0.9				+0.0	53.4	92.5	-39.1	None
5	4637.634M	48.2	+1.4				+0.0	49.6	92.5	-42.9	None
6	2781.780M	47.1	+1.1				+0.0	48.2	92.5	-44.3	None
7	1007.007M	46.0	+0.6				+0.0	46.6	92.5	-45.9	None
8	928.017M	45.5	+0.6				+0.0	46.1	92.5	-46.4	None
9	1000.000M	45.5	+0.6				+0.0	46.1	92.5	-46.4	None
10	934.023M	45.4	+0.6				+0.0	46.0	92.5	-46.5	None



11	1009.009M	45.2	+0.6	+0.0	45.8	92.5	-46.7	None
12	816.906M	44.3	+0.6	+0.0	44.9	92.5	-47.6	None
13	7122.116M	41.9	+1.9	+0.0	43.8	92.5	-48.7	None
14	6957.952M	41.6	+1.9	+0.0	43.5	92.5	-49.0	None
15	6992.987M	41.5	+1.9	+0.0	43.4	92.5	-49.1	None

CKC Laboratories_Date: 05/06/2005_Time: 10:48:35 AM_Davis Instruments VVO#: 83394 15.247(c) Antenna Conducted_Test Distance: None_Sequence#: 5 Davis Instruments M/N 762xOV



Sweep Data 1 - 15.247(c) Antenna Conducted