

Model: USS-POWER4-A

## FCC PART 15 SUBPART B and C TEST REPORT

for

## **POWER 4 SYSTEM**

**Model: USS-POWER4-A** 

Prepared for

UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION 11172 ELM AVENUE RANCHO CUCAMONGA, CALIFORNIA 91730

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DATE: JANUARY 7, 2010

	REPORT		APPENDICES			TOTAL	
	BODY	A	В	С	D	E	
PAGES	16	2	2	2	15	36	73

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Power 4 System
Model: USS-POWER4-A

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## GENERAL REPORT SUMMARY

Compatible Electronics Inc. generates this electromagnetic emission test report, which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Device Tested: Universal Surveillance Systems Corporation

Model: USS-POWER4-A

S/N: N/A

Product Description: See Expository Statement

Modifications: The EUT was modified in order to meet the specifications. Please see list located in

Appendix B.

Customer: Universal Surveillance Systems Corporation

11172 Elm Avenue

Rancho Cucamonga, California 91730

Test Date(s): December 14, 15, and 16, 2009

Test Specifications: EMI requirements

CFR Title 47, Part 15 Subpart B; and Subpart C, Sections 15.205 and 15.209

Test Procedure: ANSI C63.4

Test Deviations: The test procedure was not deviated from during the testing.

## SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions 150 kHz to 30 MHz	Complies with the Class A limits of CFR Title 47, Part 15, Subpart B; and Subpart C Section 15.207.  Highest reading in relation to spec limit: 58.02 (QP) dBuV @ 6.288 MHz (*U = 1.68 dB)
2	Radiated RF Emissions 9 kHz – 1000 MHz	Complies with the <b>Class A</b> limits of <b>CFR</b> Title 47, Part 15, Subpart B; and Subpart C Sections 15.205 and 15.209.  Highest reading in relation to spec limit: 42.31 (QP) dBuV @ 200.043 MHz (*U = 4.43 dB)

<sup>\*</sup>U = Expanded Uncertainty with a coverage factor of k=2

FCC Part 15 Subpart B and FCC Section 15.209 Test Report Power 4 System Model: USS-POWER4-A

#### **PURPOSE**

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Power 4 System, Model: USS-POWER4-A. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the Class A specification limits defined by CFR Title 47, Part 15, Subpart B for the digital portion; and Subpart C, sections 15.205, 15.207, and 15.209 for the transmitter portion.

Note: The receiver portion was not performed because it is exempt from the technical provisions in CFR Title 47, Part 15, Subpart B per CFR Title 47, Part 15, Subpart B, section 15.101 (b).

Note #2: This report covers the Controller Box, the Power 4 Rx Booster Pedestal, and the 58 kHz antenna contained in the Booster Tx Pedestal. The Booster Tx Pedestal also transmits at 24 kHz and the data for this will be contained in the Compatible Electronics test report number: **B91216A2.** 

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#### 2. ADMINISTRATIVE DATA

# 2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California.

### 2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

## 2.3 Cognizant Personnel

Universal Surveillance Systems Corporation

Janki Bhalodia R&D Technologist Ed Redublo Head of R&D

Compatible Electronics Inc.

Kyle Fujimoto Test Engineer

Michael Christensen Lab Manager, Brea Division

## 2.4 Date Test Sample was Received

The test sample was received prior to the date of testing.

### 2.5 Disposition of the Test Sample

The test sample was returned prior to the date of this report.

#### 2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

FCC Federal Communications Commission

RF Radio Frequency

EMI Electromagnetic Interference EUT Equipment Under Test

P/N Part Number S/N Serial Number

ITE Information Technology Equipment
LISN Line Impedance Stabilization Network

NVLAP National Voluntary Laboratory Accreditation Program

CFR Code of Federal Regulations

N/A Not Applicable

Ltd. Limited
Inc. Incorporated
IR Infrared

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## 3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
CFR Title 47, Part 15	FCC Rules – Radio frequency devices (including digital devices)
ANSI C63.4: 2003	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

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#### 4. DESCRIPTION OF TEST CONFIGURATION

# 4.1 Description of Test Configuration – EMI

The Power 4 System, Model: USS-POWER4-A (EUT) consists of a Power 4 Tx Booster Pedestal, a Power 4 Receiver Booster Pedestal, and a 4 AM Controller Box.

The controller box was connected as follows:

4 AM CONTROLLER BOX				
Port Name	Connected To	Comments		
TX1	Power 4 Rx Booster Pedestal	Part of EUT System		
TX2	Power 4 Tx Booster Pedestal	Part of EUT System		
RX1	Power 4 Rx Booster Pedestal	Part of EUT System		
RX2	Accessory Power 4 Rx Booster Pedestal #1	This Rx Booster is only for termination purposes to fully terminate the controller box.		
RX3	Power 4 Tx Booster Pedestal	Part of EUT System		
RX4	Accessory Power 4 Rx Booster Pedestal #2	This Rx Booster is only for termination purposes to fully terminate the controller box.		
PC	Ethernet Adapter	To allow an RJ-45 connector to a router		
POWER	AC Adapter	To Provide power to the Box.		

The ethernet adapter was also connected to a router and AC Adapter via its ethernet and power ports, respectively. The Power 4 Tx Booster Pedestal and Power 4 Rx Booster Pedestal were also connected to their respective AC adapters via their respective power ports.

The entire system was continuously transmitting and receiving at 24 kHz and 58 kHz. The EUT was tested in both the minimum power and maximum power.

Note: The digital portion emissions were tested to the **Class A** limits specification limits defined by CFR Title 47, Part 15, Subpart B.

Note #2: This report covers the Controller Box, the Power 4 Rx Booster Pedestal, and the 58 kHz antenna contained in the Booster Tx Pedestal. The Booster Tx Pedestal also transmits at 24 kHz and the data for this will be contained in the Compatible Electronics test report number: **B91216A2**.

It was determined that the emissions were at their highest level when the EUT was operating in the above configuration. The final emissions data was taken in this mode of operation and any cables were maximized. All initial investigations were performed with the measurement receiver in manual mode scanning the frequency range continuously. Photographs of the test setup are in Appendix D of this report.

Model: USS-POWER4-A



4.1.1 **Cable Construction and Termination** Cable 1 This is a 1-meter unshielded cable connecting the 4 AM Controller Box PC port to the ethernet adapter. The cable has an RJ-9 connector at each end. This is a 2-meter unshielded cable connecting the ethernet adapter to the AC Adapter. The cable has Cable 2 a 1/8 inch power connector at the ethernet adapter end and is hard wired into the AC Adapter. Cable 3 This is a 15.24-meter unshielded cable connecting the ethernet adapter to the router. The cable has an RJ-45 connector at each end. Cable 4 This is a 5-meter foil shielded cable connecting the 4 AM Controller Box RX4 port to the Power 4 Rx Booster Pedestal (accessory unit #2). The cable has an RJ-45 connector at each end. The shield of the cable is unterminated at each end. This is a 5-meter foil shielded cable connecting the 4 AM Controller Box RX3 port to the Power 4 Cable 5 Tx Booster Pedestal. The cable has an RJ-45 connector at each end. The cable was bundled to a length of 1 meter. The shield of the cable is unterminated at each end. Cable 6 This is a 5-meter foil shielded cable connecting the 4 AM Controller Box RX2 port to the Power 4 Rx Booster Pedestal (accessory unit #1). The cable has an RJ-45 connector at each end. The cable was bundled to a length of 1 meter. The shield of the cable is unterminated at each end. Cable 7 This is a 5-meter foil shielded cable connecting the 4 AM Controller Box RX1 port to the Power 4 Rx Booster Pedestal. The cable has an RJ-45 connector at each end. The cable was bundled to a length of 1 meter. The shield of the cable is unterminated at each end. Cable 8 This is a 5-meter foil shielded cable connecting the 4 AM Controller Box TX1 port to the Power 4 Tx Booster Pedestal. The cable has an RJ-45 connector at each end. The cable was bundled to a length of 1 meter. The shield of the cable is unterminated at each end. This is a 5-meter foil shielded cable connecting the 4 AM Controller Box TX2 port to the Power 4 Cable 9 Rx Booster Pedestal. The cable has an RJ-45 connector at each end. The cable was bundled to a length of 1 meter. The shield of the cable is unterminated at each end. Cable 10 This is a 5-meter unshielded cable connecting the Power 4 Rx Booster Pedestal to the AC Adapter. The cable has a 2-pin terminal block at the Power 4 RX Booster Pedestal end. The cable was bundled to a length of 1 meter. Cable 11 This is a 2-meter unshielded cable connecting the Power 4 Tx Booster Pedestal to the AC Adapter. The cable has a 2-pin terminal block at the Power 4 TX Booster Pedestal end. The cable was bundled to a length of 1 meter.

FCC Part 15 Subpart B and FCC Section 15.209 Test Report

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# 5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

# 5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
POWER 4 SYSTEM (EUT)	UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION	USS-POWER4-A	N/A	*See Note Below this Table
POWER 4 AM CONTROLLER BOX	UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION	USS-POWER4- CONTROLLER	N/A	X2TUSS-POWER4-A00
ETHERNET ADAPTER	N/A	N/A	152	N/A
AC ADAPTER FOR ETHERNET ADAPTER	IPC	SA1A-120-0420	P/N: SW-1250AR	N/A
AC ADAPTER FOR USS- POWER 4/RX	MAXIM	MA4815U7	N/A	N/A
AC ADAPTER FOR USS- POWER 4/TX	MAXIM	MA481507	N/A	N/A
POWER 4 BOOSTER RX PEDESTAL	UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION	USS-POWER 4/RX	N/A	N/A
POWER 4 BOOSTER TX PEDESTAL	UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION	USS-POWER 4/TX	N/A	X2TUSS-POWER4-B00
POWER 4 BOOSTER RX PEDESTAL (ACCESSORY)	UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION	USS-POWER 4/RX	N/A	N/A
POWER 4 BOOSTER RX PEDESTAL (ACCESSORY)	UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION	USS-POWER 4/RX	N/A	N/A
ROUTER (ACCESSORY)	NETGEAR	FVS114	168261BD0019F	N/A

<sup>\*</sup>The FCC ID will be shown for any equipment that will have the FCC ID label placed on its chassis.



FCC Part 15 Subpart B and FCC Section 15.209 Test Report Power 4 System Model: USS-POWER4-A

#### 5.2 **EMI Test Equipment**

EQUIPMENT TYPE	MANU- FACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. CYCLE	
GI	GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS					
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08784	May 29, 2009	1 Year	
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	2648A14530	May 29, 2009	1 Year	
Quasi-Peak Adapter	Hewlett Packard	85650A	2430A00424	May 29, 2009	1 Year	
Computer	Hewlett Packard	4530	US91912319	N/A	N/A	
	RF RADI	ATED EMISSIC	ONS TEST EQUIPM	MENT		
Radiated Emissions Data Capture Program	Compatible Electronics	2.0	N/A	N/A	N/A	
CombiLog Antenna	Com Power	AC-220	61027	June 12, 2009	1 Year	
Loop Antenna	Com Power	AL-130	17089	September 29, 2008	2 Year	
Preamplifier	Com-Power	PA-103	1582	January 12, 2009	1 Year	
Turntable	Com Power	TT-100	N/A	N/A	N/A	
	RF CONDUCTED EMISSIONS TEST EQUIPMENT					
Emissions Program	Compatible Electronics	2.3 (SR19)	N/A	N/A	N/A	
LISN	Com Power	LI-215	12076	September 28, 2009	1 Year	
LISN	Com Power	LI-215	12090	September 28, 2009	1 Year	
Transient Limiter	Com Power	252A910	1	September 28, 2009	1 Year	

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### 6. TEST SITE DESCRIPTION

## 6.1 Test Facility Description

Please refer to section 2.1 and 7.1.2 of this report for EMI test location.

## 6.2 EUT Mounting, Bonding and Grounding

The Controller Box was mounted on a 0.8 meter non-conductive surface above the ground plane.

The Power 4 Booster Tx Pedestal and Power 4 Booster Rx Pedestal were placed directly on the non-conductive carpet above the ground plane. The carpet is less than 12mm thick.

The EUT was not grounded.

## **6.3** Facility Environmental Characteristics

When applicable refer to the data sheets in Appendix E for the relative humidity, air temperature, and barometric pressure.

Power 4 System Model: USS-POWER4-A

#### 7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

#### 7.1 Conducted Emissions Test

The spectrum analyzer was used as a measuring meter. The data was collected with the spectrum analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A transient limiter was used for the protection of the spectrum analyzer input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the spectrum analyzer. The output of the second LISN was terminated by a 50-ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by the Compatible Electronics conducted emissions software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

Note: Due to the fact the transmitter portion limits for conducted emissions (FCC 15.207) have a lower limit than the digital portion limits for conducted emissions (Class A), the data was taken with the lower limits (FCC 15.207).

#### **Test Results:**

The EUT complies with the **Class A** (**digital portion**) limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, section 15.207 (**transmitter portion**) for conducted emissions.

FCC Part 15 Subpart B and FCC Section 15.209 Test Report

Power 4 System

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## 7.2 Radiated Emissions (Spurious, Fundamental, and Harmonics) Test

The spectrum analyzer was used as a measuring meter along with the quasi-peak adapter. A preamplifier was used to increase the sensitivity of the instrument. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps.

The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER	
9 kHz to 150 kHz	200 Hz	Active Loop Antenna	
150 kHz to 30 MHz	9 kHz	Active Loop Antenna	
30 MHz to 300 MHz	120 kHz	Biconical Antenna	
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna	

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT (except for the fundamental) was tested at a 10-meter test distance to obtain the final test data.

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## Radiated Emissions (Spurious, Fundamental, and Harmonics) Test (Continued)

For the fundamental the EUT was tested at both a 10-meter test distance and a 15-meter test distance to obtain "P".

P is the roll-off multiplier used to determine the correct spec limit at 10 meters based on the following formula: [(P\*20) Log (spec test distance / actual test distance)] + spec limit

P itself is determined by the following formula: P = [Level (at 10 Meters) – Level (at 15 Meters)] / 20 Log (15 Meters / 10 Meters)

The final qualification data sheets are located in Appendix E.

### **Test Results:**

The EUT complies with the **Class A (digital portion)** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, sections 15.205, and 15.209 (transmitter portion) for radiated emissions.

Model: USS-POWER4-A

FCC Part 15 Subpart B and FCC Section 15.209 Test Report Power 4 System

#### 8. **CONCLUSIONS**

The Power 4 System, Model: USS-POWER4-A, as tested, meets all of the Class A specification limits defined in CFR Title 47, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.207, and 15.209 for the transmitter portion.

Note #2: This report covers the Controller Box, the Power 4 Rx Booster Pedestal, and the 58 kHz antenna contained in the Booster Tx Pedestal. The Booster Tx Pedestal also transmits at 24 kHz and the data for this will be contained in the Compatible Electronics test report number: **B91216A2**.

# **APPENDIX A**

# LABORATORY RECOGNITIONS



# LABORATORY RECOGNITIONS

#### Compatible Electronics has the following agency accreditations:

National Voluntary Laboratory Accreditation Program - Lab Code: 200528-0

Voluntary Control Council for Interference - Registration Numbers: R-983, C-1026, R-984 and C-1027

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

Compatible Electronics is recognized or on file with the following agencies:

Federal Communications Commission

**Industry Canada** 



**APPENDIX B** 

**MODIFICATIONS TO THE EUT** 

# MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.207, FCC 15.209, or FCC Class A specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

1) Added a ferrite (Coils Electronic Co. Ltd., Product Code: ECRH-CAF03-B) to the power cable of the 4 AM Controller Box.



# **APPENDIX C**

# ADDITIONAL MODELS COVERED UNDER THIS REPORT



# ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Power 4 System

Model: USS-POWER4-A

S/N: N/A

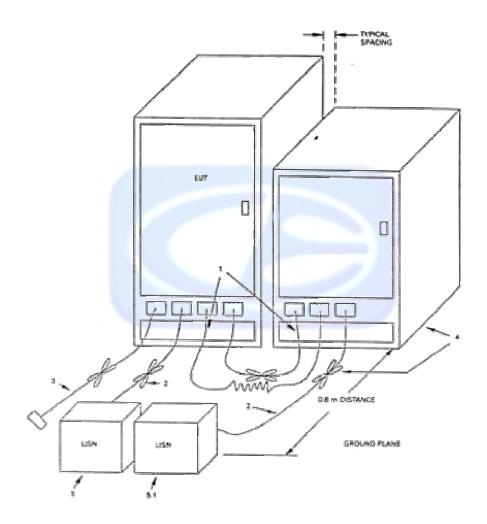
There were no additional models covered under this report.



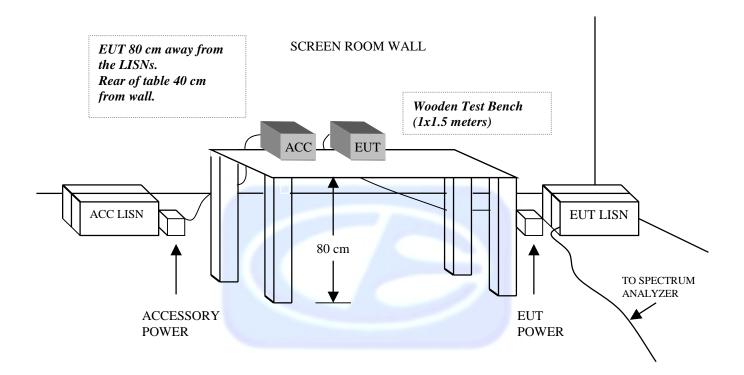
# APPENDIX D

# DIAGRAMS, CHARTS AND PHOTOS

# FIGURE 1: CONDUCTED EMISSIONS TEST SETUP FOR FLOOR STANDING UNITS

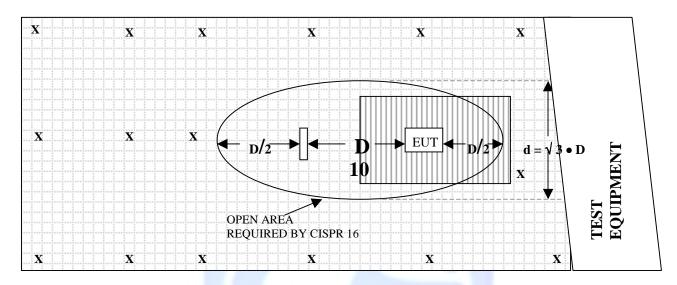


# FIGURE 2: CONDUCTED EMISSIONS TEST SETUP FOR TABLETOP UNITS



# FIGURE 3: PLOT MAP AND LAYOUT OF THE RADIATED TEST SITE

# **OPEN LAND > 15 METERS**



# **OPEN LAND > 15 METERS**

**OPEN LAND > 15 METERS** 

 $\mathbf{X}$ = GROUND RODS = GROUND

= WOOD COVER D = TEST DISTANCE (meters)



# COM-POWER AC-220

# **COMBILOG ANTENNA**

S/N: 61027

# CALIBRATION DATE: JUNE 12, 2009

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
25	17.8	180	9.2
30	18.0	200	9.6
35	17.5	250	12.5
40	18.4	275	12.7
45	16.0	300	13.4
50	16.3	400	15.5
60	13.1	500	17.3
70	7.9	600	19.0
80	6.9	700	20.1
90	8.2	800	21.3
100	9.1	900	22.6
120	9.6	1000	23.1
125	10.3	1200	23.1
140	9.3	1400	24.5
150	8.4	1600	29.2
160	8.0	1800	24.2
175	9.6	2000	23.8

# **COM-POWER PA-103**

# **PREAMPLIFIER**

S/N: 1582

# CALIBRATION DATE: JANUARY 12, 2009

FREQUENCY	FACTOR	FREQUENCY	FACTOR
(MHz)	(dB)	(MHz)	( <b>dB</b> )
30	33.6	300	33.4
40	33.7	350	33.2
50	33.6	400	33.2
60	33.5	450	33.1
70	33.6	500	32.9
80	33.6	550	33.0
90	33.7	600	32.8
100	33.7	650	33.0
125	33.5	700	32.7
150	33.6	750	32.9
175	33.7	800	32.6
200	33.4	850	32.6
225	33.4	900	32.6
250	33.4	950	32.4
275	33.3	1000	32.7



# COM-POWER AL-130

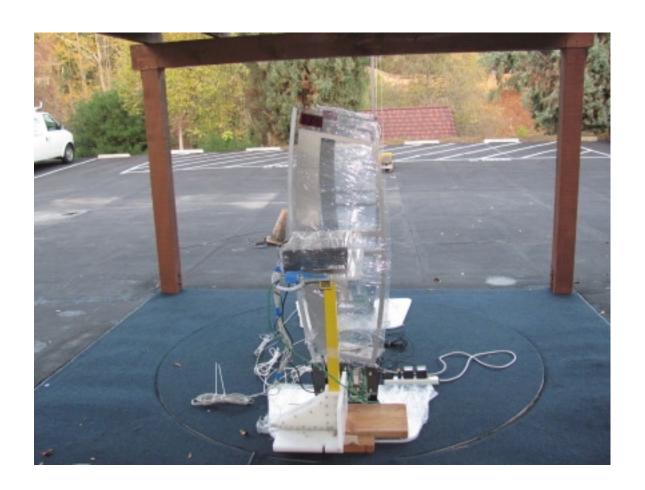
# **LOOP ANTENNA**

S/N: 17089

# CALIBRATION DATE: SEPTEMBER 29, 2008

FREQUENCY	MAGNETIC	ELECTRIC
(MHz)	(dB/m)	(dB/m)
0.009	-41.57	9.93
0.01	-42.06	9.44
0.02	-42.43	9.07
0.05	-42.50	9.00
0.07	-42.10	9.40
0.1	-42.03	9.47
0.2	-44.50	7.00
0.3	-41.93	9.57
0.5	-41.90	9.60
0.7	-41.73	9.77
1	-41.23	10.27
2	-40.90	10.60
3	-41.20	10.30
4	-41.30	10.20
5	-40.70	10.80
10	-41.10	10.40
15	-42.17	9.33
20	-42.00	9.50
25	-42.20	9.30
30	-43.10	8.40





### **FRONT VIEW**

UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION **POWER 4 SYSTEM** Model: USS-POWER4-A FCC 15.209 – RADIATED EMISSIONS





### **REAR VIEW**

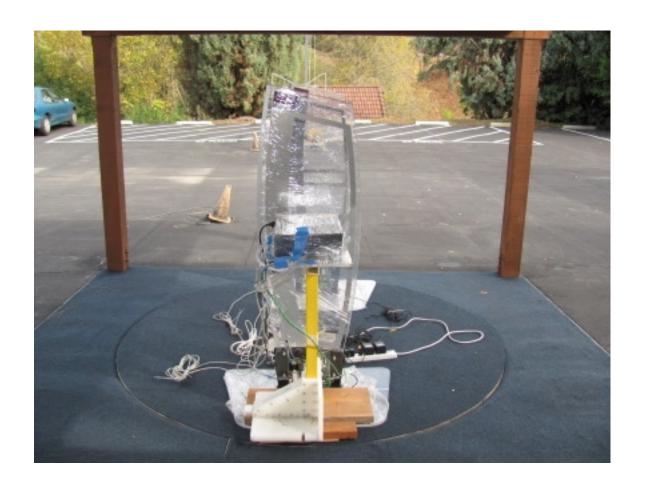
UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION **POWER 4 SYSTEM** Model: USS-POWER4-A FCC 15.209 – RADIATED EMISSIONS



### **FRONT VIEW**

UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION
POWER 4 SYSTEM
Model: USS-POWER4-A
FCC SUBPART B – RADIATED EMISSIONS





### **REAR VIEW**

UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION **POWER 4 SYSTEM** Model: USS-POWER4-A FCC SUBPART B - RADIATED EMISSIONS



#### **FRONT VIEW**

UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION
POWER 4 SYSTEM
Model: USS-POWER4-A
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS – CONTROLLER BOX



#### **REAR VIEW**

UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION
POWER 4 SYSTEM
Model: USS-POWER4-A
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS – CONTROLLER BOX



#### **FRONT VIEW**

UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION
POWER 4 SYSTEM
Model: USS-POWER4-A
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS –
POWER 4 BOOSTER RX PEDESTAL

Power 4 System
Model: USS-POWER4-A



#### **REAR VIEW**

UNIVERSAL SURVEILLANCE SYSTEMS CORPORATION
POWER 4 SYSTEM
Model: USS-POWER4-A
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS –
POWER 4 BOOSTER RX PEDESTAL

# PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

Power 4 System Model: USS-POWER4-A

### **APPENDIX E**

### DATA SHEETS

Power 4 System Model: USS-POWER4-A

#### FCC 15.209

Universal Surveillance Systems Dates: 12/14/09 and 12/15/09

Power 4 System Lab: A

Model: USS-Power4-A Tested By: Kyle Fujimoto

**Transmit Mode - Maximum Power** 

Test Distance: 10 Meters (Except Where Noted in Comments)

Corrected Spec Limit at 10 Meters for Harmonics = [40 Log (spec test dist./actual test dist.)] + spec limit

Corrected Spec Limit at 10 Meters for Fundamental = [(P\*20) Log (spec test dist./actual test dist.)] + spec limit

Freq.	Level (dBuV)	Pol (v/h)	Spec Limit (at 10 Meters)	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
58	114.18	V			Peak	1	90	Actual Reading @ 10m
58	103.48	V			Peak	1	90	Actual Reading @ 15m
58	114.18	V	122.09	-7.91	Peak	1	90	Actual Reading @ 10m
								Corrected using (P*20)
116	51.9	V	85.40	-33.50	Peak	1	90	
174	73.5	V	81.88	-8.38	Peak	1	90	
232	60.4	V	79.38	-18.98	Peak	1	90	
290	58.6	V	77.44	-18.84	Peak	1	90	
0.40	50.0	\ /	75.00	00.50	Deal	4	00	
348	53.3	V	75.86	-22.56	Peak	1	90	
406	E4 C	V	74.52	-22.92	Dools	1	90	
406	51.6	V	74.52	-22.92	Peak	I	90	
464	51.1	V	73.36	-22.26	Peak	1	90	
404	31.1	V	73.30	-22.20	reak	ı ı	30	
522	46	V	52.34	-6.34	Peak	1	90	
022	70	V	02.04	0.07	1 can	'	- 50	
580	48.4	V	51.42	-3.02	Peak	1	90	
		•	<u> </u>	0.02	, , , , , ,			

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz

Limit in uV/m = 30 at 30 Meters from 1705 kHz to 30 MHz

 $dBuV/m = 20 \ log \ (uV/m)$ 

Distance Correction Factor for Fundamental =  $[(P*20) \log (Test \ Distance \ / \ 300)]$  Where P is the roll-off exponent. P is found as follows:

P = [Level (at 10 Meters) – Level (at 2<sup>nd</sup> Test Distance)] / 20 Log (2<sup>nd</sup> Test Distance / 10 Meters)]

@ 15 Meters: P = [(114.18)-(103.48)] / 20 Log (15/10) = 3.038

Power 4 System Model: USS-POWER4-A

#### FCC 15.209

Universal Surveillance Systems Dates: 12/14/09 and 12/15/09

Power 4 System Lab: A

Model: USS-Power4-A Tested By: Kyle Fujimoto

**Transmit Mode - Maximum Power** 

Test Distance: 10 Meters (Except Where Noted in Comments)

Corrected Spec Limit at 10 Meters for Harmonics = [40 Log (spec test dist./actual test dist.)] + spec limit

Corrected Spec Limit at 10 Meters for Fundamental = [(P\*20) Log (spec test dist./actual test dist.)] + spec limit

Freq. (kHz)	Level (dBuV)	Pol (v/h)	Spec Limit (at 10 Meters)	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
58	106.08	Н			Peak	1	135	Actual Reading @ 10m
58	94.48	Н			Peak	1	135	Actual Reading @ 15m
58	106.08	Н	129.65	-23.568	Peak	1	135	Actual Reading @ 10m
								Corrected using (P*20)
116	70.98	Н	85.40	-14.42	Peak	1	180	
174	62.84	Н	81.88	-19.038	Peak	1	135	
232	38.91	Н	79.38	-40.469	Peak	1	135	
290	54.36	Н	77.44	-23.081	Peak	1	135	
0.40	<b>-</b> 4.00		00				40=	
348	51.89	Н	75.86	-23.967	Peak	1	135	
400	<b>54.5</b>		74.50	00.040	Deel	4	00	
406	51.5	Н	74.52	-23.019	Peak	1	90	
464	40.4	Н	73.36	24.050	Dools	4	90	
464	48.4	П	13.30	-24.959	Peak	1	90	
522	50.01	Н	52.34	-2.3257	Peak	1	90	
JZZ	30.01	11	JZ.J <del>4</del>	-2.3231	rean	l I	30	
580	50.2	Н	51.42	-1.2205	Peak	1	90	
	00.2		J2			· ·		

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz

Limit in uV/m = 30 at 30 Meters from 1705 kHz to 30 MHz

dBuV/m = 20 log (uV/m)

Distance Correction Factor for Fundamental =  $[(P*20) \log (Test \ Distance \ / \ 300)]$ Where P is the roll-off exponent. P is found as follows:

P = [Level (at 10 Meters) – Level (at 2<sup>nd</sup> Test Distance)] / 20 Log (2<sup>nd</sup> Test Distance / 10 Meters)]

@ 15 Meters: P = [(106.08)-(94.48)] / 20 Log (15/10) = 3.294

Power 4 System
Model: USS-POWER4-A

#### FCC 15.209

Universal Surveillance Systems Dates: 12/14/09 and 12/15/09

Power 4 System Lab: A

Model: USS-Power4-A Tested By: Kyle Fujimoto

**Transmit Mode - Minimum Power** 

**Test Distance: 10 Meters** 

Corrected Spec Limit at 10 Meters = [40 Log (spec test dist./actual test dist.)] + spec limit

Note: Average Based on Duty Cycle of 2 mS Pulse per 11 mS Cycle

Freq. (kHz)	Level (dBuV)	Pol (v/h)	Spec Limit (at 10 Meters)	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
58	101.08	V	91.42	9.66	Peak	1	135	
58	86.28	V	91.42	-5.14	Avg	1	135	
116	46.27	V	85.40	-39.13	Peak	1	90	
174	62.11	V	81.88	-19.77	Peak	1	90	
232	53.8	V	79.38	-25.58	Peak	1	90	
290	54.86	V	77.44	-22.58	Peak	1	90	
348	51.19	V	75.86	-24.67	Peak	1	90	
406	49.8	V	74.52	-24.72	Peak	1	90	
464	49.6	V	73.36	-23.76	Peak	1	90	
522	49.11	V	52.34	-3.23	Peak	1	90	
580	48.48	V	51.42	-2.94	Peak	1	90	

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz Limit in uV/m = 30 at 30 Meters from 1705 kHz to 30 MHz

dBuV/m =  $20 \log (uV/m)$ 

Distance Correction Factor for Fundamental =  $[(P*20) \log (Test Distance / 300)]$ Where P is the roll-off exponent. P is found as follows: P =  $[Level (at 10 Meters) - Level (at 2^{nd} Test Distance)] / 20 Log (2^{nd} Test Distance / 10 Meters)]$ 

@ 15 Meters: P = [(114.18)-(103.48)] / 20 Log (15/10) = 3.038

Power 4 System
Model: USS-POWER4-A

#### FCC 15.209

Universal Surveillance Systems Dates: 12/14/09 and 12/15/09

Power 4 System Lab: A

Model: USS-Power4-A Tested By: Kyle Fujimoto

**Transmit Mode - Minimum Power** 

**Test Distance: 10 Meters** 

Corrected Spec Limit at 10 Meters = [40 Log (spec test dist./actual test dist.)] + spec limit

Note: Average Based on Duty Cycle of 2 mS Pulse per 11 mS Cycle

Freq.	Level (dBuV)	Pol (v/h)	Spec Limit (at 10 Meters)	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
58	92.38	Н	91.42	0.96	Peak	1	90	
58	77.58	Η	91.42	-13.84	Avg	1	90	
116	41.31	Н	85.40	-44.09	Peak	1	90	
174	54.19	Н	81.88	-27.69	Peak	1	90	
232	52.84	Н	79.38	-26.54	Peak	1	90	
								7
290	56.66	Н	77.44	-20.78	Peak	1	90	
348	56.58	Н	75.86	-19.28	Peak	1	90	
406	54.3	Н	74.52	-20.22	Peak	1	90	
464	53.8	Н	73.36	-19.56	Peak	1	90	
522	50.91	Н	52.34	-1.43	Peak	1	90	
580	49.96	Н	51.42	-1.46	Peak	1	90	

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz

Limit in uV/m = 30 at 30 Meters from 1705 kHz to 30 MHz

 $dBuV/m = 20 \ log \ (uV/m)$ 

Power 4 System
Model: USS-POWER4-A

#### FCC 15.209

Universal Surveillance Systems Dates: 12/14/09 and 12/15/09

Power 4 System Lab: A

Model: USS-Power4-A Tested By: Kyle Fujimoto

**Transmit Mode - Maximum Power (Worst Case)** 

Test Distance: 10 Meters - Non-Harmonic Spurious Emissions from the Transmitter Portion Corrected Spec Limit at 10 Meters = [40 Log (spec test dist./actual test dist.)] + spec limit

Freq. (kHz)	Level (dBuV)	Pol (v/h)	Spec Limit (at 10 Meters)	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
173.2	66.91	V	81.92	-15.008	Peak	1	90	
173.2	56.52	Н	81.92	-25.398	Peak	1	180	

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz

Limit in uV/m = 30 at 30 Meters from 1705 kHz to 30 MHz

dBuV/m = 20 log (uV/m)



Test Location : Compatible Electronics Page : 1/2

: Universal Surveillance Systems Customer Date: 12/15/2009 Manufacturer : Universal Surveillance Systems Ti me: 10:29:25

Eut name Power 4 System Lab: A Model USS-Power4-A Test Distance: 10

Serial # N/A

Specification : FCC Class A

Distance correction factor (20 \* log(test/spec) 0.00

Test Type: Radiated Emissions Qual - Maximum Power - Entire System Test Mode

Test Range: 30 MHz to 1 GHz (Vertical and Horizontal) Clocks: 20 MHz and 50 MHz - Entire System

Pol	Freq	Rdng	Cabl e l oss	Ant factor	Amp gai n	Cor' d rdg = R	Limit = L	Delta R-L
	MHz	dBuV	dB	dB	dB	dBuV	dBuV/m	dB
1V	48. 066	47. 40	0. 52	16. 19	33. 62	30. 49	39. 10	- 8. 61
2V	53. 283	44. 00	0. 53	15. 18	33. 57	26. 15	39. 10	- 12. 95
3V	60. 054	50. 70	0. 60	13. 07	33. 50	30. 87	39. 10	- 8. 23
4V	72. 460	52. 30	0. 70	7. 64	33. 60	27. 04	39. 10	- 12. 06
5H	80. 043	47. 00	0. 70	6. 91	33. 60	21. 01	39. 10	- 18. 09
6V	85. 649	39. 90	0. 76	7. 65	33. 66	14. 65	39. 10	- 24. 45
7V	108. 595	44. 30	1. 17	9. 33	33. 63	21. 17	43. 50	- 22. 33
8V	116. 791	42. 80	1. 24	9. 53	33. 56	20. 00	43. 50	- 23. 50
9V	133. 378	55. 60	1. 34	9. 73	33. 54	33. 13	43. 50	- 10. 37
10V	150. 053	54. 90	1. 40	8. 40	33. 60	31. 10	43. 50	- 12. 40
11V	152. 718	43. 00	1. 42	8. 29	33. 61	19. 10	43. 50	- 24. 40
12V	175. 063	41. 60	1. 60	9. 59	33. 70	19. 10	43. 50	- 24. 40
13V	188. 832	50. 50	1. 71	9. 38	33. 53	28. 07	43. 50	- 15. 43
14V	199. 806	56. 90	1. 80	9. 60	33. 40	34. 89	43. 50	- 8. 61
15V	200. 026	63. 70	1. 80	9. 60	33. 40	41. 70	43. 50	- 1. 80
16V	200. 027Qp	63. 18	1. 80	9. 60	33. 40	41. 18	43. 50	- 2. 32
17H	200. 042	64. 40	1. 80	9. 60	33. 40	42. 40	43. 50	- 1. 10
18H	200. 043QP	64. 31	1. 80	9. 60	33. 40	42. 31	43. 50	- 1. 19
19V	200. 287	59. 50	1. 80	9. 62	33. 40	37. 52	43. 50	- 5. 98
20H	209. 834	48. 10	1. 88	10. 22	33. 40	26. 81	43. 50	- 16. 69
21V	210. 007	43. 90	1. 88	10. 23	33. 40	22. 62	43. 50	- 20. 88
22H	228. 920	47. 60	2. 00	11. 36	33. 40	27. 56	46. 40	- 18. 84
23V	250. 068	43. 80	2. 00	12. 50	33. 40	24. 90	46. 40	- 21. 50
24H	258. 974	33. 90	2. 04	12. 57	33. 36	15. 15	46. 40	- 31. 25
25V	265. 275	34. 90	2. 06	12. 62	33. 34	16. 25	46. 40	- 30. 15
26V	267. 026	50. 20	2. 07	12. 64	33. 33	31. 58	46. 40	- 14. 82
27V	280. 036	48. 50	2. 14	12. 85	33. 32	30. 17	46. 40	- 16. 23
28H	280. 044	45. 40	2. 14	12. 85	33. 32	27. 07	46. 40	- 19. 33
29V	300. 041	52. 00	2. 30	13. 40	33. 40	34. 30	46. 40	- 12. 10
30H	300. 045	57. 20	2. 30	13. 40	33. 40	39. 50	46. 40	- 6. 90
31V	319. 802	37. 90	2. 42	13. 87	33. 32	20. 87	46. 40	- 25. 53
32V	320. 041	42. 20	2. 43	13. 87	33. 32	25. 18	46. 40	- 21. 22
33H	320. 238	33. 40	2. 43	13. 88	33. 32	16. 39	46. 40	- 30. 01
34V	325. 041	40. 80	2. 46	13. 99	33. 30	23. 95	46. 40	- 22. 45
35V	350. 041	41. 60	2. 60	14. 53	33. 20	25. 53	46. 40	- 20. 87

> Power 4 System Model: USS-POWER4-A

Test Location : Compatible Electronics Page : 2/2

: Universal Surveillance Systems Customer Date: 12/15/2009 Manufacturer : Universal Surveillance Systems Ti me: 10:29:25

Eut name Power 4 System Lab: A Model USS-Power4-A Test Distance: 10

Serial # N/A

Specification : FCC Class A

Distance correction factor (20 \* log(test/spec) 0.00

Test Type: Radiated Emissions Qual - Maximum Power - Entire System Test Mode

Test Range: 30 MHz to 1 GHz (Vertical and Horizontal) Clocks: 20 MHz and 50 MHz - Entire System

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gai n dB	Cor' d rdg = R dBuV	Li mi t = L dBuV/m	Delta R-L dB
36V	350. 090	40. 90	2. 60	14. 53	33. 20	24. 83	46. 40	- 21. 57
37V	371. 948	39. 30	2. 65	14. 97	33. 20	23. 71	46. 40	- 22. 69
38V	400. 041	44. 30	2. 70	15. 50	33. 20	29. 30	46. 40	- 17. 10
39V	400. 258	43. 80	2. 70	15. 51	33. 20	28. 81	46. 40	- 17. 59
40H	400. 260	42. 90	2. 70	15. 51	33. 20	27. 91	46. 40	- 18. 49
41V	483. 403	36. 70	4. 90	17. 03	32. 96	25. 66	46. 40	- 20. 74
42V	539. 851	31. 10	6. 26	18. 02	32. 98	22. 40	46. 40	- 24. 00
43V	575. 041	44. 30	6. 45	18. 60	32. 90	36. 46	46. 40	- 9. 94
44H	751. 480	32. 80	7. 72	20. 74	32. 89	28. 36	46. 40	- 18. 04



Test Location : Compatible Electronics Page : 1/2

Universal Surveillance Systems Customer Date: 12/15/2009 Manufacturer Universal Surveillance Systems Ti me: 13:18:53

Eut name Power 4 System Lab: A Model USS-Power4-A Test Distance: 10

Serial # N/A

Specification : FCC Class A

Distance correction factor (20 \* log(test/spec) 0.00

Test Type: Radiated Emissions Qual - Minimum Power Test Mode

Test Range: 30 MHz to 1 GHz (Vertical and Horizontal) Clocks: 20 MHz and 50 MHz - Entire System

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gai n dB	Cor' d rdg = R dBuV	Li mi t = L dBuV/m	Delta R-L dB
1V	30. 310	37. 90	0. 60	17. 97	33. 60	22. 86	39. 10	- 16. 24
2V	46. 750	35. 20	0. 53	16. 11	33. 63	18. 21	39. 10	- 20. 89
3H	66. 826	42. 30	0. 67	9. 47	33. 57	18. 87	39. 10	- 20. 23
4V	78. 010	41. 00	0. 70	7. 09	33. 60	15. 19	39. 10	- 23. 91
5H	85. 876	48. 10	0. 76	7. 68	33. 66	22. 88	39. 10	- 16. 22
6H	108. 915	39. 90	1. 18	9. 33	33. 62	16. 79	43. 50	- 26. 71
7H	108. 953	43. 50	1. 18	9. 34	33. 62	20. 39	43. 50	- 23. 11
8H	110. 631	39. 60	1. 19	9. 38	33. 61	16. 56	43. 50	- 26. 94
9V	113. 792	35. 60	1. 22	9. 45	33. 58	12. 69	43. 50	- 30. 81
10V	120. 022	39. 00	1. 26	9. 60	33. 54	16. 33	43. 50	- 27. 17
11H	125. 015	42. 50	1. 30	10. 30	33. 50	20. 60	43. 50	- 22. 90
12V	132. 023	35. 20	1. 33	9. 82	33. 53	12. 82	43. 50	- 30. 68
13H	133. 365	51. 50	1. 34	9. 73	33. 54	29. 03	43. 50	- 14. 47
14V	146. 423	38. 10	1. 39	8. 71	33. 59	14. 61	43. 50	- 28. 89
15H	150. 051	48. 90	1. 40	8. 40	33. 60	25. 10	43. 50	- 18. 40
16H	150. 070	52. 70	1. 40	8. 40	33. 60	28. 90	43. 50	- 14. 60
17V	155. 720	42. 40	1. 45	8. 17	33. 62	18. 39	43. 50	- 25. 11
18V	190. 248	51. 60	1. 73	9. 41	33. 51	29. 22	43. 50	- 14. 28
19V	200. 031	61. 60	1. 80	9. 60	33. 40	39. 60	43. 50	- 3. 90
20H	200. 052	59. 30	1. 80	9. 60	33. 40	37. 30	43. 50	- 6. 20
21H	228. 887	48. 10	2. 00	11. 35	33. 40	28. 05	46. 40	- 18. 35
22V	232. 124	40. 40	2. 00	11. 54	33. 40	20. 54	46. 40	- 25. 86
23V	246. 380	32. 90	2. 00	12. 31	33. 40	13. 81	46. 40	- 32. 59
24H	250. 058	41. 30	2. 00	12. 50	33. 40	22. 40	46. 40	- 24. 00
25V	250. 066	36. 60	2. 00	12. 50	33. 40	17. 70	46. 40	- 28. 70
26V	260. 320	34. 60	2. 04	12. 58	33. 36	15. 87	46. 40	- 30. 53
27V	265. 248	32. 30	2. 06	12. 62	33. 34	13. 65	46. 40	- 32. 75
28V	276. 545	38. 90	2. 11	12. 75	33. 31	20. 45	46. 40	- 25. 95
29V	280. 022	42. 40	2. 14	12. 85	33. 32	24. 07	46. 40	- 22. 33
30H	286. 105	43. 60	2. 19	13. 02	33. 35	25. 46	46. 40	- 20. 94
31V	300. 049	52. 80	2. 30	13. 40	33. 40	35. 10	46. 40	- 11. 30
32V	302. 584	35. 30	2. 32	13. 46	33. 39	17. 69	46. 40	- 28. 71
33H	314. 690	38. 20	2. 39	13. 75	33. 34	21. 00	46. 40	- 25. 40
34H	336. 785	38. 70	2. 53	14. 24	33. 25	22. 22	46. 40	- 24. 18
35H	362. 384	39. 90	2. 63	14. 78	33. 20	24. 11	46. 40	- 22. 29



Test Location : Compatible Electronics Page : 2/2

: Universal Surveillance Systems Customer Date: 12/15/2009 Manufacturer : Universal Surveillance Systems Ti me: 13:18:53

Eut name Power 4 System Lab: A Model USS-Power4-A Test Distance: 10

Serial # N/A

Specification : FCC Class A

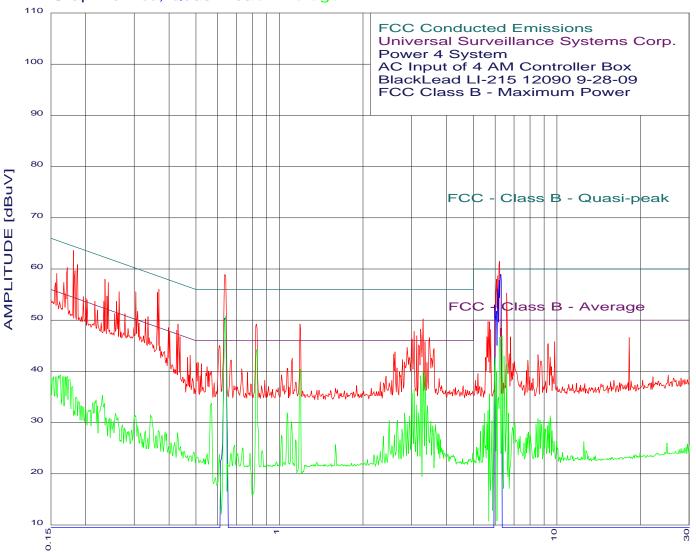
Distance correction factor (20 \* log(test/spec) 0.00

Test Type: Radiated Emissions Qual - Minimum Power Test Mode

Test Range: 30 MHz to 1 GHz (Vertical and Horizontal) Clocks: 20 MHz and 50 MHz - Entire System

Pol	Freq	Rdng	Cabl e	Ant	Amp	Cor' d	Li mị t	Delta
			loss	factor	gai n	rdg = R	= L	R-L
	MHz	dBuV	dB	dB	dB	dBuV	dBuV/m	dB
36V	371. 924	38. 90	2. 65	14. 97	33. 20	23. 31	46. 40	- 23. 09
37H	380. 698	31. 20	2. 66	15. 14	33. 20	15.80	46. 40	- 30. 60
38V	381. 469	39. 30	2. 66	15. 15	33. 20	23. 92	46. 40	- 22. 48
39V	400.045	39. 80	2. 70	15. 50	33. 20	24. 80	46. 40	- 21. 60
<b>40H</b>	400. 248	47. 00	2. 70	15. 50	33. 20	32. 01	46. 40	- 14. 39
41H	400. 270	45. 60	2. 70	15. 51	33. 20	30. 61	46. 40	- 15. 79
42V	400. 275	44. 50	2. 70	15. 51	33. 20	29. 51	46. 40	- 16. 89
43V	414. 525	31. 20	2. 85	15. 79	33. 17	16. 67	46. 40	- 29. 73
44H	419. 603	34. 50	2. 90	15. 89	33. 16	20. 13	46. 40	- 26. 27
45V	419. 630	37. 20	2. 90	15. 89	33. 16	22. 83	46. 40	- 23. 57
461/	422 002	39. 40	3. 05	16 16	22 12	95 47	46 40	20.02
46V	433. 992			16. 16	33. 13	25. 47	46. 40	- 20. 93
47V	436. 733	32. 70	3. 07	16. 21	33. 13	18. 86	46. 40	- 27. 54
48V	451. 260	37. 30	3. 27	16. 47	33. 09	23. 94	46. 40	- 22. 46
49V	479. 190	30. 70	4. 69	16. 96	32. 98	19. 37	46. 40	- 27. 03
50H	499. 363	37. 50	5. 67	17. 29	32. 90	27. 56	46. 40	- 18. 84
51V	505. 440	37. 60	5. 78	17. 40	32. 91	27. 87	46. 40	- 18. 53
52V	602. 363	42. 90	6. 52	19. 03	32. 81	35. 64	46. 40	- 10. 76
53H	604. 044	37. 10	6. 53	19. 05	32.82	29. 86	46. 40	- 16. 54
54H	621. 434	34. 80	6. 68	19. 25	32.89	27. 84	46. 40	- 18. 56
55H	684. 485	39. 30	7. 04	19. 94	32. 79	33. 49	46. 40	- 12. 91
56V	702. 037	37. 70	7. 13	20. 13	32. 71	32. 24	46. 40	- 14. 16

#### EMISSION LEVEL [dBuV] PEAK Graph for Peak Quasi-Peak Average



Model: USS-POWER4-A



Universal Surveillance Systems Corporation Power 4 System AC Input of 4 AM Controller Box FCC Class B - Maximum Power - Black Lead TEST ENGINEER : Kyle Fujimoto

47 highest peaks above -50.00 dB of FCC - Class B - Average limit line Peak criteria: 1.00 dB, Curve: Peak Peak# Freq(MHz)Amp(dBuVLimit(dB) Delta(dB) 0.637 58.84 46.00 12.84\* 11.48\* \*\* 2 6.220 61.48 50.00 3 0.181 63.57 54.46 9.11\* 8.67\* \*\* 4 6.123 58.67 50.00 7.96\* \*\* 5 6.059 57.96 50.00 6 0.36756.02 48.56 7.46\* 7 0.363 6.77\* 55.42 48.65 8 60.87 6.72\* 0.18754.15 5.71\* 9 0.235 57.96 52.25 10 0.172 54.86 5.41\* 60.27 11 55.54 50.14 5.40\* 0.304 5.34\* 12 0.183 59.67 54.33 13 0.242 57.36 52.04 5.32\* 14 6.593 55.30 50.00 5.30\* 15 0.265 55.55 51.29 4.26\* 16 3.294 50.19 46.00 4.19 3.47\* 17 0.157 59.07 55.60 18 49.23 46.00 3.23\* 1.184 19 0.826 49.22 46.00 3.22\* 2.54\* 20 0.239 54.66 52.12 57.37 55.11 21 0.167 2.26\* 3.226 22 48.19 46.00 2.19\* 2.19\* 23 0.259 53.65 51.47 24 0.431 49.20 47.24 1.96\* 25 3.059 47.78 46.00 1.78\* 26 0.309 51.74 50.01 1.73\* 27 0.156 57.27 55.69 1.59\* 28 0.336 50.63 49.31 1.32\* 0.233 52.34 29 53.66 1.32\* 30 46.88 46.00 0.88\* 3.124 31 0.197 54.57 53.75 0.82\*32 0.329 50.23 49.48 0.75\*0.71\* 33 0.216 53.67 52.96 34 54.27 0.69\* 0.201 53.58 35 0.426 48.00 47.33 0.67\* 36 0.398 48.51 47.90 0.61\* 37 3.474 46.50 46.00 0.50\*38 0.203 53.97 53.49 0.48\*39 2.995 46.48 46.00 0.48\*40 0.277 51.25 0.35\*50.89 41 0.262 51.25 51.38 -0.13\*42 -0.20\* 0.402 47.61 47.81 43 3.346 45.80 46.00 -0.20\*44 49.74 5.656 50.00 -0.26\*47.11 -0.31\* 45 46.80 0.438

\*Please See the Average Readings on the Following Pages and on the Plot

-0.34\*

-0.36\*

0.255

5.715

51.25

49.64

46

47

51.60

50.00

<sup>\*\*</sup>Please See the Quasi-Peak Readings on the Following Pages and on the Plot





Universal Surveillance Systems Corporation Power 4 System AC Input of 4 AM Controller Box FCC Class B - Maximum Power - Black Lead TEST ENGINEER: Kyle Fujimoto

\_\_\_\_\_

6 highest peaks above -50.00 dB of FCC - Class B - Quasi-peak limit line

Peak criteria: 0.00 dB, Curve: Quasi-peak

Peak	:# Freq(MH	lz)Amp(dB	uVLimit(dB)	Delta(dB)
1	6.288	58.92	60.00	-1.08
2	6.186	57.77	60.00	-2.23
3	6.123	56.01	60.00	-3.99
4	0.641	50.34	56.00	-5.66
5	5.964	52.99	60.00	-7.01
6	6.059	51.70	60.00	-8.30





Universal Surveillance Systems Corporation Power 4 System AC Input of 4 AM Controller Box FCC Class B - Maximum Power - Black Lead TEST ENGINEER: Kyle Fujimoto

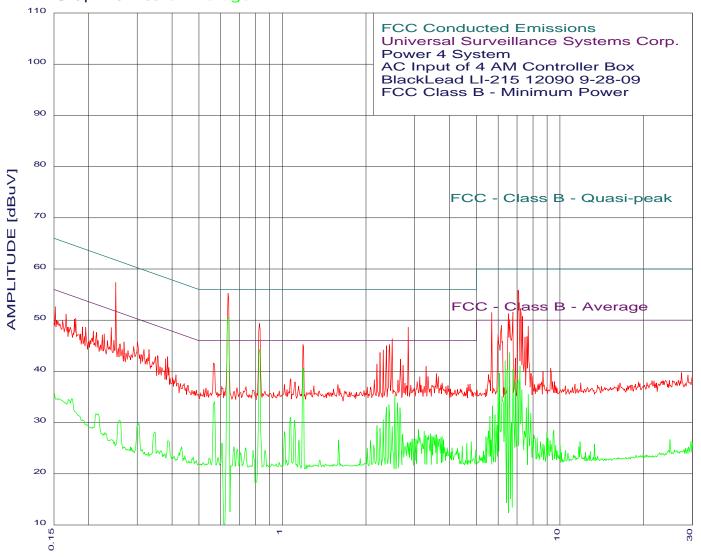
47 hi	ghest peal	ks above ∹	50.00 dB of	FCC - Class I	B - Average limit line
Peak	criteria:	0.00 dB, C	urve : Aver	age	_
Peak	#Freq(MH	lz)Amp(dB	uVLimit(dB)	Delta(dB)	
1	0.641	50.81	46.00	4.81*	
2	0.826	44.22	46.00	-1.78*	
3	6.356	46.97	50.00	-3.03	
4	6.220	46.65	50.00	-3.35	
5	1.184	40.43	46.00	-5.57	
6	3.294	40.07	46.00	-5.93	
7	3.346	39.38	46.00	-6.62	

3	6.356	46.97	50.00	-3.03
4	6.220	46.65	50.00	-3.35
5	1.184	40.43	46.00	-5.57
6	3.294	40.07	46.00	-5.93
7	3.346	39.38	46.00	-6.62
8	3.226	39.09	46.00	-6.91
9	6.458	42.99	50.00	-7.01
10	5.996	42.67	50.00	-7.33
11	6.593	41.37	50.00	-8.63
12	3.059	36.54	46.00	-9.46
13	6.059	40.02	50.00	-9.98
14 15	2.995 0.570	35.81 33.77	46.00 46.00	-10.19 -12.23
16	3.124	33.77 33.44	46.00 46.00	-12.23 -12.56
17	3.124 3.419	33.44 33.26	46.00 46.00	-12.56 -12.74
18	3.419	33.26 31.94	46.00	-12.74 -14.06
19	1.066	31.94	46.00 46.00	-14.06
20	2.826	31.82	46.00	-14.08
21	5.715	35.58	50.00	-14.10
22	2.948	31.28	46.00	-14.72
23	6.154	34.89	50.00	-15.11
24	2.488	30.44	46.00	-15.56
25	2.665	30.38	46.00	-15.62
26	3.511	30.30	46.00	-15.70
27	0.172	39.00	54.86	-15.86
28	1.106	30.14	46.00	-15.86
29	0.169	38.97	55.03	-16.06
30	0.162	39.27	55.34	-16.07
31	0.166	39.02	55.16	-16.14
32	2.885	29.81	46.00	-16.19
33	0.175	38.33	54.72	-16.39
34	0.160	39.08	55.47	-16.39
35	3.644	29.58	46.00	-16.42
36	0.157	38.98	55.64	-16.66
37	3.565	29.34	46.00	-16.66
38	0.153	38.94	55.82	-16.88
39	0.230	35.26	52.43	-17.17
40	2.766	28.67	46.00	-17.33
41	0.152	38.55	55.91	-17.36
42	0.179	36.99	54.54	-17.55
43	0.343	31.50	49.13	-17.64
44 45	5.656 0.347	32.36	50.00	-17.64
45 46	0.347 6.700	31.10 31.83	49.04 50.00	-17.95 -18.17
46 47	6.700 3.722	31.83 27.82	46.00	-18.17 -18.18
4/	3.122	21.82	46.00	-10.18

\*This is a Radio Station Verified by the Audio Detector of the QP Detector and not the EUT. This signal is still present even when the EUT is turned off.



12/16/2009 15:04:02



Model: USS-POWER4-A





Universal Surveillance Systems Corporation Power 4 System AC Input of 4 AM Controller Box FCC Class B - Minimum Power - Black Lead TEST ENGINEER : Kyle Fujimoto

48 hic	thest nea			 FCC - Class B - Ave	rage limit line
			urve : Peak		rage minit mie
			uVI)_imit(dB)		
1	0.637	55.24	46.00	9.24*	
2	7.063	55.83	50.00	5.83*	
3	0.251	57.36	51.73	5.63*	
4	0.826	49.32	46.00	3.32*	
5	2.840	48.57	46.00	2.57*	
6	7.217	52.24	50.00	2.24*	
7	6.773	51.51	50.00	1.51*	
8	5.686	51.44	50.00	1.44*	
9	6.525	51.20	50.00	1.20*	
10	7.333	50.75	50.00	0.75*	
11	2.488	46.35	46.00	0.35*	
12	6.593	50.10	50.00	0.10*	
13	2.436	45.24	46.00	-0.76*	
14	1.184	45.23	46.00	-0.77*	
15	6.154	48.97	50.00	-1.03*	
16	2.371	44.94	46.00	-1.06*	
17	7.689	48.77	50.00	-1.23*	
18	2.310	44.14	46.00	-1.86*	
19	2.250	43.63	46.00	-2.37*	
20	5.996	47.16	50.00	-2.84*	
21	7.606	46.77	50.00	-3.23*	
22	0.152	52.58	55.91	-3.33*	
23	7.489	46.66	50.00	-3.34*	
24	0.242	48.56	52.04	-3.48*	
25	2.665	42.36	46.00	-3.64*	
26	0.166	51.17	55.16	-3.99*	
27	0.180	50.37	54.50	-4.13*	
28	0.564	41.61	46.00	-4.39*	
29	0.178	50.17	54.59	-4.42*	
30	2.190	41.43	46.00	-4.57*	
31	0.300	45.64	50.23	-4.59*	
32	2.722	41.16	46.00	-4.84*	
33	3.294	40.99	46.00	-5.01*	
34	0.331	44.23	49.44	-5.21*	
35	0.196	48.57	53.80	-5.23*	
36	0.228	47.26	52.52	-5.26*	
37	0.190	48.67	54.01	-5.34*	
38	0.385	42.81	48.16	-5.35*	
39	0.208	47.87	53.27	-5.40*	
40	0.269	45.75	51.15	-5.40*	
41	0.214	47.57	53.05	-5.48*	
42	0.162	49.87	55.38	-5.51* -5.6*	
43	0.317	44.24	49.79	-5.56* -5.50*	
44	0.224	47.06	52.65	-5.59* -5.65*	
45 46	0.291	44.84	50.49	-5.65* -5.80*	
46 47	0.247	46.06	51.86	-5.80* -5.84*	
47	0.354	43.02	48.87	-5.84*	

<sup>\*</sup>Please See the Average Readings on the Next Page and on the Plot

55.82

-5.84\*

0.153

49.98

48

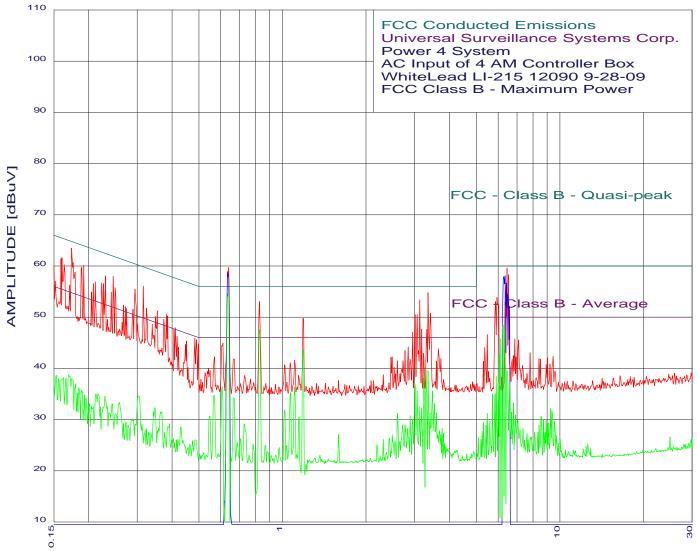


Universal Surveillance Systems Corporation Power 4 System AC Input of 4 AM Controller Box FCC Class B - Minimum Power - Black Lead TEST ENGINEER: Kyle Fujimoto

47 highest peaks above -50.00 dB of FCC - Class B - Average limit line

			urve : Aver		
Peak	# Freq(MH	lz)Amp(dB	uVLimit(dB)	Delta(dB)	
1	0.637	50.43	46.00	4.43*	
2	0.826	44.19	46.00	-1.81*	
3	1.184	40.59	46.00	-5.41	
4	6.593	43.64	50.00	-6.36	
5	6.356	42.00	50.00	-8.00	
6	7.178	41.03	50.00	-8.97	
7	6.773	40.42	50.00	-9.58	
8	6.458	40.35	50.00	-9.65	
9	6.059	39.64	50.00	-10.36	
10	2.540	35.26	46.00	-10.74	
11	7.063	38.26	50.00	-11.74	
12	0.570	34.02	46.00	-11.98	
13	2.596	33.85	46.00	-12.15	
14	6.918	37.82	50.00	-12.18	
15	2.423	33.47	46.00	-12.53	
16	2.371	32.96	46.00	-13.04	
17	2.651	32.90	46.00	-13.10	
18	5.996	36.83	50.00	-13.17	
19	7.294	36.38	50.00	-13.62	
20	7.689	35.48	50.00	-14.52	
21	1.066	31.03	46.00	-14.97	
22	6.186	35.01	50.00	-14.99	
23	2.310	30.53	46.00	-15.47	
24	1.106	30.48	46.00	-15.52	
25	2.190	29.42	46.00	-16.58	
26	5.715	33.24	50.00	-16.76	
27	2.488	29.21	46.00	-16.79	
28	2.250	28.93	46.00	-17.07	
29	7.567	32.89	50.00	-17.11	
30	3.091	28.64	46.00	-17.36	
31	3.243	28.26	46.00	-17.74	
32	1.016	28.23	46.00	-17.77	
33	7.856	31.85	50.00	-18.15	
34	3.419	27.80	46.00	-18.20	
35	3.585	27.67	46.00	-18.33	
36	2.707	27.66	46.00	-18.34	
37	5.838	31.50	50.00	-18.50	
38	3.547	27.47	46.00	-18.53	
39	3.365	27.46	46.00	-18.54	
40	3.277	27.45	46.00	-18.55	
41	3.456	27.36	46.00	-18.64	
42	3.761	27.23	46.00	-18.77	
43	5.597	31.19	50.00	-18.81	
44	3.492	27.17	46.00	-18.83	
45	3.124	27.14	46.00	-18.86	
46	3.328	27.05	46.00	-18.95	
47	3.722	27.02	46.00	-18.98	

\*This is a Radio Station Verified by the Audio Detector of the QP Detector and not the EUT. This signal is still present even when the EUT is turned off.



Report Number: B91216A1

Power 4 System Model: USS-POWER4-A

FCC Part 15 Subpart B and FCC Section 15.209 Test Report

Model: USS-POWER4-A



Universal Surveillance Systems Corporation Power 4 System AC Input of 4 AM Controller Box FCC Class B - Maximum Power - White Lead TEST ENGINEER: Kyle Fujimoto

45 highest peaks above -50.00 dB of FCC - Class B - Average limit line Peak criteria: 1.00 dB, Curve: Peak Peak# Freq(MHz)Amp(dBuVLimit(dB) Delta(dB) 13.73\* 0.641 59.73 46.00 12.92\* \*\* 2 0.634 58.92 46.00 9.57\* \*\* 3 6.458 59.57 50.00 4 46.00 3.346 54.78 8.78\* 5 0.174 63.45 54.77 8.68\* 8.28\* 6 6.525 58.28 50.00 7 53.37 7.37\* 3.124 46.00 8 7.01\* 0.826 53.01 46.00 6.57\* 9 6.356 56.57 50.00 10 61.62 6.19\* 0.161 55.43 11 0.315 56.02 49.84 6.19\* 6.16\* 12 60.09 0.193 53.93 13 0.246 57.95 51.90 6.04\* 14 0.159 61.42 55.51 5.90\* 15 54.06 59.78 5.72\* 0.18916 0.230 58.05 52.43 5.62\* 5.02\* 17 0.294 55.43 50.41 18 0.163 60.23 55.29 4.93\* 50.79 19 3.419 46.00 4.79\* 4.47\* 20 3.059 50.47 46.00 50.46 4.46\* 21 3.011 46.00 4.21\* 22 0.179 58.76 54.54 23 0.227 56.54 52.57 3.98\* 24 0.250 55.74 51.77 3.97\* 25 0.223 56.64 52.70 3.94\* 3.84\* 26 5.933 53.84 50.00 27 1.191 49.72 46.00 3.72\* 3.68\* 28 0.212 56.82 53.14 0.208 29 56.51 3.25\* 53.27 30 5.869 53.04 3.04\* 50.00 31 0.242 54.85 52.04 2.81\* 32 0.354 51.21 48.87 2.35\* 33 0.381 50.50 48.25 2.25\* 34 0.324 51.72 2.10\* 49.62 35 0.385 50.20 48.16 2.04\* 36 3.175 47.67 46.00 1.67\* 37 47.58 3.311 46.00 1.58\* 38 0.205 54.91 53.40 1.51 1.34\* 39 0.171 56.24 54.90 40 0.373 49.61 48.43 1.18\* 41 0.267 52.34 51.20 1.14\* 1.11\* 42 0.348 50.11 49.00 43 0.15257.00 55.91 1.09\* 44 47.06 1.06\* 2.948 46.00

\*Please See the Average Readings on the Following Pages and on the Plot

0.99\*

0.290

45

50.54

51.53

<sup>\*\*</sup>Please See the Quasi-Peak Readings on the Following Pages and on the Plot



Power 4 System
Model: USS-POWER4-A



Universal Surveillance Systems Corporation Power 4 System AC Input of 4 AM Controller Box FCC Class B - Maximum Power - White Lead TEST ENGINEER: Kyle Fujimoto

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4 highest peaks above -50.00 dB of FCC - Class B - Quasi-peak limit line Peak criteria: 0.00 dB, Curve: Quasi-peak

Peak# Freq(MHz)Amp(dBuV)Limit(dB) Delta(dB)

•			,, (	<del></del>	
	1	0.634	58.49	56.00	2.49*
	2	6.356	58.07	60.00	-1.93
	3	6.288	57.91	60.00	-2.09
	4	6.424	56.66	60.00	-3.34

<sup>\*</sup>This is a Radio Station Verified by the Audio Detector of the QP Detector and not the EUT. This signal is still present even when the EUT is turned off.

Model: USS-POWER4-A

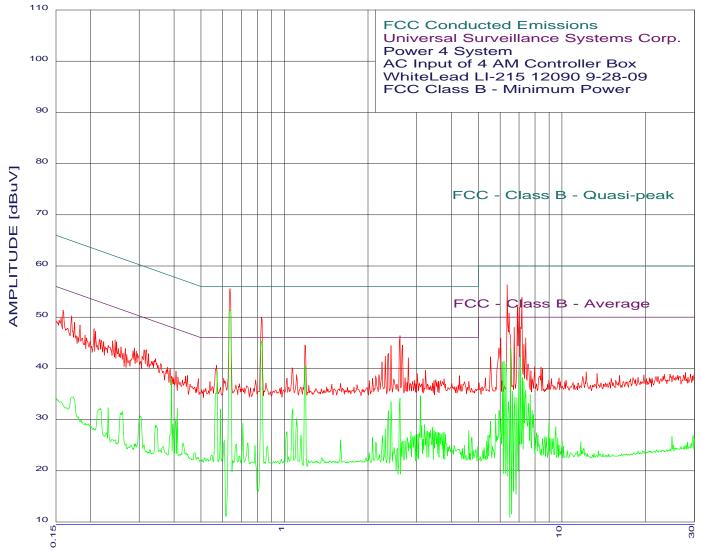


Universal Surveillance Systems Corporation Power 4 System Power of 4 AM Controller FCC Class B - Maximum Power - White Lead TEST ENGINEER: Kyle Fujimoto

47 highest peaks above -50.00 dB of FCC - Class B - Average limit line

			urve : Aver		
Peak	# Freq(MH	lz)Amp(dB	uVLimit(dB)	) Delta(dB)	
1	0.641	54.71	46.00	8.71*	
2	0.826	47.61	46.00	1.61*	
3	6.254	48.43	50.00	-1.57	
4	1.184	43.67	46.00	-2.33	
5	6.356	47.60	50.00	-2.40	
6	6.123	45.81	50.00	-4.19	
7	3.294	39.64	46.00	-6.36	
8	3.346	39.53	46.00	-6.47	
9	6.059	42.74	50.00	-7.26	
10	3.226	38.02	46.00	-7.98	
11	2.995	37.08	46.00	-8.92	
12	0.608	36.38	46.00	-9.62	
13	1.106	36.33	46.00	-9.67	
14	6.458	39.69	50.00	-10.31	
15	3.059	35.56	46.00	-10.44	
16	3.474	35.52	46.00	-10.48	
17	1.072	35.29	46.00	-10.71	
18	0.567	34.73	46.00	-11.27	
19	5.901	38.42	50.00	-11.58	
20	0.669	34.24	46.00	-11.76	
21	3.529	33.06	46.00	-12.94	
22	5.996	36.99	50.00	-13.01	
23	6.593	36.69	50.00	-13.31	
24	3.124	32.47	46.00	-13.53	
25	3.175	32.21	46.00	-13.79	
26	1.016	31.75	46.00	-14.25	
27	3.585	31.29	46.00	-14.71	
28	3.401	31.25	46.00	-14.75	
29	2.596	31.23	46.00	-14.77	
30	5.715	35.02	50.00	-14.98	
31	5.838	34.98	50.00	-15.02	
32	2.885	30.75	46.00	-15.25	
33	0.547	30.65	46.00	-15.35	
34	1.148	30.44	46.00	-15.56	
35	0.302	34.57	50.19	-15.62	
36	2.948	30.00	46.00	-16.00	
37	0.170	38.69	54.98	-16.30	
38	0.172	38.31	54.86	-16.54	
39	0.347	32.31	49.04	-16.73	
40	6.809	33.23	50.00	-16.77 16.84	
41	0.174	37.93	54.77	-16.84 16.03	
42	0.728	29.07	46.00	-16.93	
43	2.766	28.97	46.00 55.16	-17.03 17.06	
44 45	0.166	38.10	55.16 46.00	-17.06 17.07	
45 46	2.707 0.367	28.93 31.49	46.00 48.56	-17.07 17.09	
46 47	0.367	31.49	48.65	-17.08 -17.16	
<b>T</b> /	0.505	31.43	40.00	17.10	

\*This is a Radio Station Verified by the Audio Detector of the QP Detector and not the EUT. This signal is still present even when the EUT is turned off.



Report Number: B91216A1

Power 4 System
Model: USS-POWER4-A

FCC Part 15 Subpart B and FCC Section 15.209 Test Report



Universal Surveillance Systems Corporation Power 4 System AC Input of 4 AM Controller Box FCC Class B - Minimum Power - White Lead TEST ENGINEER: Kyle Fujimoto

10 hi	shoot pool	ka abaya <i>F</i>	50 00 dP of	ECC Class	B - Average limit line
			urve : Peak		B - Average IIIIII IIIIe
			uVLimit(dB)		
1 Can	0.637	55.53	46.00	9.53*	
2	6.356	56.27	50.00	6.27*	
3	0.826	49.91	46.00	3.91*	
4	7.178	53.82	50.00	3.82*	
5	6.918	52.00	50.00	2.00*	
6	7.027	51.91	50.00	1.91*	
7	6.458	50.77	50.00	0.77*	
8	2.610	46.34	46.00	0.34*	
9	2.665	44.54	46.00	-1.46*	
10	1.184	44.52	46.00	-1.48*	
11	2.423	44.43	46.00	-1.57*	
12	6.736	47.99	50.00	-2.01*	
13	2.371	42.93	46.00	-3.07*	
14	2.310	42.32	46.00	-3.68*	
15	2.796	42.05	46.00	-3.95*	
16	7.411	45.94	50.00	-4.06*	
17	6.028	45.85	50.00	-4.15*	
18	0.159	51.32	55.51	-4.20*	
19	0.171	50.24	54.90	-4.66*	
20	2.250	41.22	46.00	-4.78*	
21	7.294	44.63	50.00	-5.37*	
22	0.570	40.60	46.00	-5.40*	
23	0.206	47.71	53.35	-5.64*	
24	0.175	48.95	54.72	-5.77*	
25	0.157	49.81	55.64	-5.83*	
26	0.183	48.47	54.33	-5.86*	
27	1.066	40.09	46.00	-5.91*	
28	0.208	47.21	53.27	-6.05*	
29	5.933	43.94	50.00	-6.06*	
30	0.318	43.62	49.75	-6.13*	
31	0.312	43.62	49.92	-6.30*	
32	0.246	45.55	51.90	-6.36*	
33	3.226	39.58	46.00	-6.42*	
34	0.288	43.93	50.58	-6.65*	
35	0.248	45.14	51.82	-6.67*	
36	0.240	45.35	52.08	-6.73*	
37	0.324	42.82	49.62	-6.80*	
38	3.011	38.96	46.00	-7.04*	
39	0.293	43.33	50.45	-7.12*	
40	0.216	45.73	52.96	-7.23*	
41	0.285	43.43	50.67	-7.24*	
42	2.190	38.72	46.00	-7.28*	
43	1.106	38.70	46.00	-7.30*	
44	0.343	41.82	49.13	-7.32*	
45	0.267	43.84	51.20	-7.36*	
46	0.258	44.14	51.51	-7.37*	
47	0.220	45.43	52.83	-7.39*	
48	0.223	45.24	52.70	-7.46*	

<sup>\*</sup>Please See the Average Readings on the Next Page and on the Plot



Universal Surveillance Systems Corporation Power 4 System AC Input of 4 AM Controller Box FCC Class B - Minimum Power - White Lead TEST ENGINEER: Kyle Fujimoto

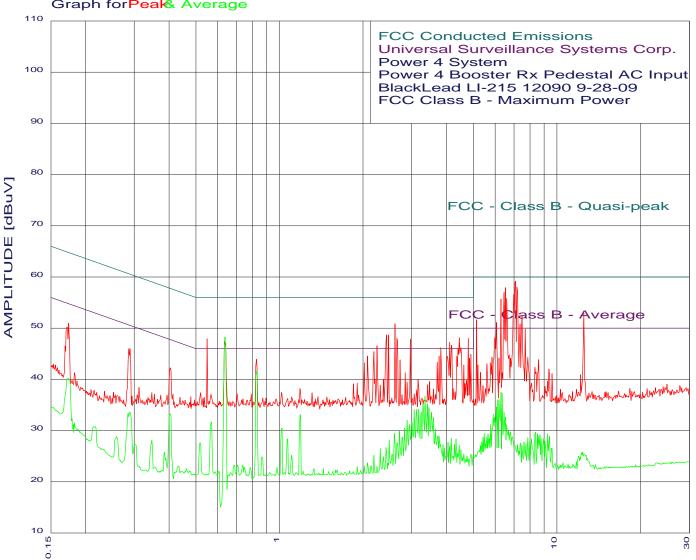
47 highest peaks above -50.00 dB of FCC - Class B - Average limit line Peak criteria: 0.00 dB. Curve: Average

		0.00 dB, Cui		ige
Peak#	Freq(MH:	z)Amp(dBu\	/Limit(dB)	Delta(dB)
1	0.637	51.32	46.00	5.32*
2	0.826	45.27	46.00	-0.73*
3	1.184	40.46	46.00	-5.54
4	6.525	43.90	50.00	-6.10
5	0.573	39.48	46.00	-6.52
6	7.100	42.46	50.00	-7.54
7	6.186	41.41	50.00	-8.59
8	6.123	41.23	50.00	-8.77
9	6.288	40.84	50.00	-9.16
10	0.391	38.05	48.03	-9.98
11	6.991	39.39	50.00	-10.61
12	0.564	35.08	46.00	-10.92
13	3.091	34.67	46.00	-11.33
14	7.217	38.18	50.00	-11.82
15	2.610	34.15	46.00	-11.85
16	2.423	33.47	46.00	-12.53
17	7.294	37.37	50.00	-12.63
18	1.072	32.11	46.00	-13.89
19	0.589	32.03	46.00	-13.97
20	7.411	35.75	50.00	-14.25
21	2.371	31.73	46.00	-14.27
22	6.627	35.53	50.00	-14.47
23	7.689	34.84	50.00	-15.16
24	0.411	32.18	47.63	-15.45
25	6.773	34.37	50.00	-15.63
26	6.882	34.24	50.00	-15.76
27	1.106	30.18	46.00	-15.82
28	6.424	33.47	50.00	-16.53
29	0.709	29.23	46.00	-16.77
30	7.567	33.13	50.00	-16.87
31	3.192	29.03	46.00	-16.97
32	3.124	28.82	46.00	-17.18
33	3.419	28.49	46.00	-17.51
34	0.406	29.91	47.72	-17.82
35	2.310	28.15	46.00	-17.85
36	3.365	27.98	46.00	-18.02
37	3.456	27.89	46.00	-18.11
38	4.624	27.82	46.00	-18.18
39	5.933	31.81	50.00	-18.19
40	7.815	31.78	50.00	-18.22
41	3.277	27.74	46.00	-18.26
42	3.243	27.64	46.00	-18.36
43	3.492	27.60	46.00	-18.40
44	1.021	27.58	46.00	-18.42
45	2.855	27.56	46.00	-18.44
46	3.761	27.52	46.00	-18.48

\*This is a Radio Station Verified by the Audio Detector of the QP Detector and not the EUT. This signal is still present even when the EUT is turned off.

Silverado Division







Universal Surveillance Systems Corporation Power 4 System Power 4 Booster Rx Pedestal AC Input FCC Class B - Maximum Power TEST ENGINEER: Kyle Fujimoto

## Highest peaks above -50.00 dB of FCC - Class B - Average limit line Peak criteria: 1.00 dB, Curve: Peak Peak# Freq(MHz)Amp(dBuV)Limit(dB)							
Peak Peak # Freq(MHz)Amp(dBuV)Limit(dB)         Delta(dB)           1         7.100         59.13         50.00         9.13*           2         7.178         57.94         50.00         7.94*           3         6.525         57.90         50.00         7.90*           4         6.458         56.99         50.00         6.99*           5         6.991         56.53         50.00         6.53*           6         6.593         55.80         50.00         5.88*           7         6.288         55.68         50.00         5.68*           8         2.610         50.85         46.00         2.65*           10         2.475         48.65         46.00         2.65*           11         2.436         48.64         46.00         2.66*           12         7.489         52.36         50.00         2.92*           13         4.456         48.06         46.00         2.66*           14         4.799         47.98         46.00         1.98*           15         2.651         47.96         46.00         1.96*           16         0.550         47.90         46.00         1.44*	48 hi	ghest peal	ks above -5	50.00 dB of	FCC - Class	B - Average limit	line
1       7.100       59.13       50.00       9.13*         2       7.178       57.94       50.00       7.90*         3       6.525       57.90       50.00       7.90*         4       6.458       56.99       50.00       6.99*         5       6.991       56.53       50.00       5.80*         6       6.593       55.80       50.00       5.68*         7       6.288       55.68       50.00       5.68*         8       2.610       50.85       46.00       4.85*         9       12.521       52.92       50.00       2.92*         10       2.475       48.65       46.00       2.65*         11       2.436       48.64       46.00       2.66*         11       2.436       48.64       46.00       2.66*         14       4.799       47.98       46.00       1.98*         15       2.651       47.96       46.00       1.98*         16       0.550       47.90       46.00       1.87*         18       5.142       51.60       50.00       1.60*         19       0.634       47.44       46.00       1.24*<	Peak	criteria:	1.00 dB, C	urve : Peak		•	
2 7.178 57.94 50.00 7.94* 3 6.525 57.90 50.00 7.90* 4 6.458 56.99 50.00 6.99* 5 6.991 56.53 50.00 6.53* 6 6.593 55.80 50.00 5.68* 8 2.610 50.85 46.00 4.85* 9 12.521 52.92 50.00 2.92* 10 2.475 48.65 46.00 2.65* 11 2.436 48.64 46.00 2.66* 12 7.489 52.36 50.00 2.36* 13 4.456 48.06 46.00 1.98* 15 2.651 47.96 46.00 1.98* 16 0.550 47.90 46.00 1.96* 17 2.963 47.87 46.00 1.87* 18 5.142 51.60 50.00 1.60* 19 0.634 47.44 46.00 1.24* 20 4.114 47.24 46.00 1.24* 21 6.059 51.06 50.00 0.75* 23 4.159 46.65 46.00 0.65* 24 2.250 46.53 46.00 0.13* 25 4.504 46.17 46.00 0.13* 27 4.408 46.06 46.00 0.053* 25 4.504 46.13 46.00 0.13* 27 4.408 46.06 46.00 0.06* 28 7.689 49.77 50.00 -0.23* 29 2.190 45.43 46.00 -1.14* 31 2.077 44.52 46.00 -1.48* 33 4.361 44.46 46.00 -1.56* 35 5.996 48.26 50.00 -1.56* 36 4.851 44.09 46.00 -1.56* 37 0.826 43.92 46.00 -2.08* 38 2.722 43.76 46.00 -2.08* 39 3.702 43.32 46.00 -2.28* 40 2.023 43.22 46.00 -2.68* 40 2.023 43.22 46.00 -2.68* 40 2.023 43.22 46.00 -2.68* 41 4.624 42.77 46.00 -2.28* 41 4.624 42.77 46.00 -2.28* 41 4.624 42.77 46.00 -2.28* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.28* 41 4.624 42.77 46.00 -2.28* 41 4.624 42.77 46.00 -2.88* 41 4.624 42.77 46.00 -2.88*					, ,		
3       6.525       57.90       50.00       7.90*         4       6.458       56.99       50.00       6.99*         5       6.991       56.53       50.00       6.53*         6       6.593       55.80       50.00       5.80*         7       6.288       55.68       50.00       5.68*         8       2.610       50.85       46.00       4.85*         9       12.521       52.92       50.00       2.92*         10       2.475       48.65       46.00       2.64*         12       7.489       52.36       50.00       2.36*         13       4.456       48.06       46.00       2.06*         14       4.799       47.98       46.00       1.98*         15       2.651       47.96       46.00       1.90*         16       0.550       47.90       46.00       1.87*         18       5.142       51.60       50.00       1.60*         19       0.634       47.44       46.00       1.44*         20       4.114       47.24       46.00       1.5*         22       7.372       50.75       50.00       0.75*							
4       6.458       56.99       50.00       6.53*         5       6.991       56.53       50.00       6.53*         6       6.593       55.80       50.00       5.80*         7       6.288       55.68       50.00       5.68*         8       2.610       50.85       46.00       4.85*         9       12.521       52.92       50.00       2.92*         10       2.475       48.65       46.00       2.65*         11       2.436       48.64       46.00       2.66*         12       7.489       52.36       50.00       2.36*         13       4.456       48.06       46.00       1.98*         14       4.799       47.98       46.00       1.96*         15       2.651       47.96       46.00       1.90*         17       2.963       47.87       46.00       1.87*         18       5.142       51.60       50.00       1.60*         19       0.634       47.44       46.00       1.24*         21       6.059       51.06       50.00       1.06*         22       7.372       50.75       50.00       0.5							
5         6.991         56.53         50.00         5.80*           6         6.593         55.80         50.00         5.80*           7         6.288         55.68         50.00         5.68*           8         2.610         50.85         46.00         4.85*           9         12.521         52.92         50.00         2.92*           10         2.475         48.65         46.00         2.65*           11         2.436         48.64         46.00         2.66*           12         7.489         52.36         50.00         2.36*           13         4.456         48.06         46.00         1.98*           15         2.651         47.96         46.00         1.90*           16         0.550         47.90         46.00         1.87*           18         5.142         51.60         50.00         1.60*           19         0.634         47.44         46.00         1.24*           21         6.059         51.06         50.00         1.06*           22         7.372         50.75         50.00         0.75*           23         4.59         46.65         <							
6 6.593 55.80 50.00 5.80* 7 6.288 55.68 50.00 5.68* 8 2.610 50.85 46.00 4.85* 9 12.521 52.92 50.00 2.92* 10 2.475 48.65 46.00 2.65* 11 2.436 48.64 46.00 2.64* 12 7.489 52.36 50.00 2.36* 13 4.456 48.06 46.00 1.98* 15 2.651 47.96 46.00 1.98* 15 2.651 47.90 46.00 1.96* 16 0.550 47.90 46.00 1.87* 18 5.142 51.60 50.00 1.60* 19 0.634 47.44 46.00 1.24* 20 4.114 47.24 46.00 1.24* 21 6.055 51.06 50.00 1.06* 22 7.372 50.75 50.00 0.75* 23 4.159 46.65 46.00 0.53* 24 2.250 46.53 46.00 0.53* 25 4.504 46.17 46.00 0.17* 26 3.820 46.13 46.00 0.13* 27 4.408 46.06 46.00 0.06* 28 7.689 49.77 50.00 -0.23* 29 2.190 45.43 46.00 -0.57* 30 4.902 44.89 46.00 -1.48* 31 2.077 44.52 46.00 -1.48* 33 4.361 44.46 46.00 -1.54* 34 4.029 44.44 46.00 -1.56* 35 5.996 48.26 50.00 -1.56* 36 4.851 44.09 46.00 -1.56* 37 0.826 43.92 46.00 -2.08* 38 2.722 43.76 46.00 -2.08* 40 2.023 43.22 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78*							
7       6.288       55.68       50.00       5.68*         8       2.610       50.85       46.00       4.85*         9       12.521       52.92       50.00       2.92*         10       2.475       48.65       46.00       2.65*         11       2.436       48.64       46.00       2.64*         12       7.489       52.36       50.00       2.36*         13       4.456       48.06       46.00       2.06*         14       4.799       47.98       46.00       1.98*         15       2.651       47.96       46.00       1.96*         16       0.550       47.90       46.00       1.90*         17       2.963       47.87       46.00       1.87*         18       5.142       51.60       50.00       1.60*         19       0.634       47.44       46.00       1.44*         20       4.114       47.24       46.00       1.24*         21       6.059       51.06       50.00       0.75*         23       4.159       46.65       46.00       0.53*         24       2.250       46.53       46.00							
8       2.610       50.85       46.00       4.85*         9       12.521       52.92       50.00       2.92*         10       2.475       48.65       46.00       2.65*         11       2.436       48.64       46.00       2.64*         12       7.489       52.36       50.00       2.36*         13       4.456       48.06       46.00       2.06*         14       4.799       47.98       46.00       1.98*         15       2.651       47.90       46.00       1.90*         16       0.550       47.90       46.00       1.90*         17       2.963       47.87       46.00       1.87*         18       5.142       51.60       50.00       1.60*         19       0.634       47.44       46.00       1.24*         21       6.059       51.06       50.00       1.06*         22       7.372       50.75       50.00       0.75*         23       4.159       46.65       46.00       0.65*         24       2.250       46.53       46.00       0.13*         27       4.408       46.06       46.00 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
9 12.521 52.92 50.00 2.92* 10 2.475 48.65 46.00 2.65* 11 2.436 48.64 46.00 2.66* 12 7.489 52.36 50.00 2.36* 13 4.456 48.06 46.00 1.98* 15 2.651 47.98 46.00 1.98* 15 2.651 47.90 46.00 1.90* 17 2.963 47.87 46.00 1.87* 18 5.142 51.60 50.00 1.60* 19 0.634 47.44 46.00 1.44* 20 4.114 47.24 46.00 1.24* 21 6.059 51.06 50.00 1.06* 22 7.372 50.75 50.00 0.75* 23 4.159 46.65 46.00 0.65* 24 2.250 46.53 46.00 0.53* 25 4.504 46.17 46.00 0.17* 26 3.820 46.13 46.00 0.13* 27 4.408 46.06 46.00 0.06* 28 7.689 49.77 50.00 0.05* 30 4.902 44.89 46.00 -1.11* 31 2.077 44.52 46.00 -1.48* 32 3.761 44.52 46.00 -1.54* 34 4.029 44.44 46.00 -1.56* 35 5.996 48.26 50.00 -1.74* 36 4.851 44.09 46.00 -1.91* 37 0.826 43.92 46.00 -2.08* 38 2.722 43.76 46.00 -2.68* 40 2.023 43.22 46.00 -2.68* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78* 41 4.624 42.77 46.00 -2.78*							
10       2.475       48.65       46.00       2.64*         11       2.436       48.64       46.00       2.64*         12       7.489       52.36       50.00       2.36*         13       4.456       48.06       46.00       2.06*         14       4.799       47.98       46.00       1.98*         15       2.651       47.90       46.00       1.90*         16       0.550       47.90       46.00       1.90*         17       2.963       47.87       46.00       1.87*         18       5.142       51.60       50.00       1.60*         19       0.634       47.44       46.00       1.24*         20       4.114       47.24       46.00       1.24*         21       6.059       51.06       50.00       0.75*         23       4.159       46.65       46.00       0.65*         24       2.250       46.53       46.00       0.53*         25       4.504       46.17       46.00       0.17*         26       3.820       46.13       46.00       -0.23*         29       2.190       45.43       46.00       <							
11       2.436       48.64       46.00       2.64*         12       7.489       52.36       50.00       2.36*         13       4.456       48.06       46.00       2.06*         14       4.799       47.98       46.00       1.98*         15       2.651       47.96       46.00       1.96*         16       0.550       47.90       46.00       1.90*         17       2.963       47.87       46.00       1.87*         18       5.142       51.60       50.00       1.60*         19       0.634       47.44       46.00       1.44*         20       4.114       47.24       46.00       1.24*         21       6.059       51.06       50.00       0.75*         23       4.159       46.65       46.00       0.65*         24       2.250       46.53       46.00       0.53*         25       4.504       46.17       46.00       0.17*         26       3.820       46.13       46.00       0.06*         28       7.689       49.77       50.00       -0.23*         30       4.902       44.89       46.00       <							
12       7.489       52.36       50.00       2.36*         13       4.456       48.06       46.00       2.06*         14       4.799       47.98       46.00       1.96*         15       2.651       47.96       46.00       1.90*         16       0.550       47.90       46.00       1.90*         17       2.963       47.87       46.00       1.87*         18       5.142       51.60       50.00       1.60*         19       0.634       47.44       46.00       1.24*         21       6.059       51.06       50.00       1.06*         22       7.372       50.75       50.00       0.75*         23       4.159       46.65       46.00       0.65*         24       2.250       46.53       46.00       0.17*         26       3.820       46.13       46.00       0.13*         27       4.408       46.06       46.00       0.06*         28       7.689       49.77       50.00       -0.57*         30       4.902       44.89       46.00       -1.48*         32       3.761       44.52       46.00							
13       4.456       48.06       46.00       2.06*         14       4.799       47.98       46.00       1.98*         15       2.651       47.96       46.00       1.96*         16       0.550       47.90       46.00       1.90*         17       2.963       47.87       46.00       1.87*         18       5.142       51.60       50.00       1.60*         19       0.634       47.44       46.00       1.24*         20       4.114       47.24       46.00       1.24*         21       6.059       51.06       50.00       1.06*         22       7.372       50.75       50.00       0.75*         23       4.159       46.65       46.00       0.65*         24       2.250       46.53       46.00       0.53*         25       4.504       46.17       46.00       0.17*         26       3.820       46.13       46.00       0.06*         28       7.689       49.77       50.00       -0.23*         29       2.190       45.43       46.00       -1.48*         31       2.077       44.52       46.00							
14       4.799       47.98       46.00       1.96*         15       2.651       47.96       46.00       1.96*         16       0.550       47.90       46.00       1.90*         17       2.963       47.87       46.00       1.87*         18       5.142       51.60       50.00       1.60*         19       0.634       47.44       46.00       1.44*         20       4.114       47.24       46.00       1.06*         21       6.059       51.06       50.00       1.06*         22       7.372       50.75       50.00       0.75*         23       4.159       46.65       46.00       0.65*         24       2.250       46.53       46.00       0.53*         25       4.504       46.17       46.00       0.17*         26       3.820       46.13       46.00       0.13*         27       4.408       46.06       46.00       -0.23*         29       2.190       45.43       46.00       -0.57*         30       4.902       44.89       46.00       -1.48*         32       3.761       44.52       46.00							
15       2.651       47.96       46.00       1.96*         16       0.550       47.90       46.00       1.90*         17       2.963       47.87       46.00       1.87*         18       5.142       51.60       50.00       1.60*         19       0.634       47.44       46.00       1.24*         20       4.114       47.24       46.00       1.24*         21       6.059       51.06       50.00       1.06*         22       7.372       50.75       50.00       0.75*         23       4.159       46.65       46.00       0.65*         24       2.250       46.53       46.00       0.53*         25       4.504       46.17       46.00       0.17*         26       3.820       46.17       46.00       0.13*         27       4.408       46.06       46.00       -0.23*         29       2.190       45.43       46.00       -0.57*         30       4.902       44.89       46.00       -1.48*         32       3.761       44.52       46.00       -1.48*         33       4.361       44.46       46.00							
16       0.550       47.90       46.00       1.90*         17       2.963       47.87       46.00       1.87*         18       5.142       51.60       50.00       1.60*         19       0.634       47.44       46.00       1.24*         20       4.114       47.24       46.00       1.24*         21       6.059       51.06       50.00       1.06*         22       7.372       50.75       50.00       0.75*         23       4.159       46.65       46.00       0.65*         24       2.250       46.53       46.00       0.53*         25       4.504       46.17       46.00       0.17*         26       3.820       46.13       46.00       0.13*         27       4.408       46.06       46.00       0.06*         28       7.689       49.77       50.00       -0.57*         30       4.902       44.89       46.00       -1.11*         31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.54*         34       4.029       44.44       46.00	15						
17       2.963       47.87       46.00       1.87*         18       5.142       51.60       50.00       1.60*         19       0.634       47.44       46.00       1.44*         20       4.114       47.24       46.00       1.24*         21       6.059       51.06       50.00       1.06*         22       7.372       50.75       50.00       0.75*         23       4.159       46.65       46.00       0.65*         24       2.250       46.53       46.00       0.53*         25       4.504       46.17       46.00       0.17*         26       3.820       46.13       46.00       0.06*         28       7.689       49.77       50.00       -0.57*         30       4.902       44.89       46.00       -0.57*         30       4.902       44.89       46.00       -1.11*         31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00							
18       5.142       51.60       50.00       1.60*         19       0.634       47.44       46.00       1.44*         20       4.114       47.24       46.00       1.24*         21       6.059       51.06       50.00       1.06*         22       7.372       50.75       50.00       0.75*         23       4.159       46.65       46.00       0.65*         24       2.250       46.53       46.00       0.53*         25       4.504       46.17       46.00       0.17*         26       3.820       46.13       46.00       0.13*         27       4.408       46.06       46.00       0.06*         28       7.689       49.77       50.00       -0.23*         29       2.190       45.43       46.00       -0.57*         30       4.902       44.89       46.00       -1.11*         31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00	17						
20       4.114       47.24       46.00       1.24*         21       6.059       51.06       50.00       1.06*         22       7.372       50.75       50.00       0.75*         23       4.159       46.65       46.00       0.65*         24       2.250       46.53       46.00       0.53*         25       4.504       46.17       46.00       0.17*         26       3.820       46.13       46.00       0.13*         27       4.408       46.06       46.00       0.06*         28       7.689       49.77       50.00       -0.23*         29       2.190       45.43       46.00       -0.57*         30       4.902       44.89       46.00       -1.11*         31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -2.08*         38       2.722       43.76       46.00	18		51.60	50.00	1.60*		
21       6.059       51.06       50.00       1.06*         22       7.372       50.75       50.00       0.75*         23       4.159       46.65       46.00       0.65*         24       2.250       46.53       46.00       0.53*         25       4.504       46.17       46.00       0.17*         26       3.820       46.13       46.00       0.13*         27       4.408       46.06       46.00       0.06*         28       7.689       49.77       50.00       -0.23*         29       2.190       45.43       46.00       -0.57*         30       4.902       44.89       46.00       -1.11*         31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00	19	0.634	47.44	46.00	1.44*		
22       7.372       50.75       50.00       0.75*         23       4.159       46.65       46.00       0.65*         24       2.250       46.53       46.00       0.53*         25       4.504       46.17       46.00       0.17*         26       3.820       46.13       46.00       0.13*         27       4.408       46.06       46.00       0.06*         28       7.689       49.77       50.00       -0.23*         29       2.190       45.43       46.00       -0.57*         30       4.902       44.89       46.00       -1.11*         31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.78*         41       4.624       42.77       46.00 <td>20</td> <td>4.114</td> <td>47.24</td> <td>46.00</td> <td>1.24*</td> <td></td> <td></td>	20	4.114	47.24	46.00	1.24*		
23       4.159       46.65       46.00       0.65*         24       2.250       46.53       46.00       0.53*         25       4.504       46.17       46.00       0.17*         26       3.820       46.13       46.00       0.06*         27       4.408       46.06       46.00       0.06*         28       7.689       49.77       50.00       -0.23*         29       2.190       45.43       46.00       -0.57*         30       4.902       44.89       46.00       -1.11*         31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -2.08*         38       2.722       43.76       46.00       -2.68*         40       2.023       43.22       46.00       -2.78*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77 <td>21</td> <td>6.059</td> <td>51.06</td> <td>50.00</td> <td>1.06*</td> <td></td> <td></td>	21	6.059	51.06	50.00	1.06*		
24       2.250       46.53       46.00       0.53*         25       4.504       46.17       46.00       0.17*         26       3.820       46.13       46.00       0.13*         27       4.408       46.06       46.00       0.06*         28       7.689       49.77       50.00       -0.23*         29       2.190       45.43       46.00       -0.57*         30       4.902       44.89       46.00       -1.11*         31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.68*         40       2.023       43.22       46.00       -2.78*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77 </td <td></td> <td>7.372</td> <td>50.75</td> <td>50.00</td> <td></td> <td></td> <td></td>		7.372	50.75	50.00			
25       4.504       46.17       46.00       0.17*         26       3.820       46.13       46.00       0.13*         27       4.408       46.06       46.00       0.06*         28       7.689       49.77       50.00       -0.23*         29       2.190       45.43       46.00       -0.57*         30       4.902       44.89       46.00       -1.11*         31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -1.91*         37       0.826       43.92       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.78*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77       -3.79*		4.159		46.00			
26       3.820       46.13       46.00       0.13*         27       4.408       46.06       46.00       0.06*         28       7.689       49.77       50.00       -0.23*         29       2.190       45.43       46.00       -0.57*         30       4.902       44.89       46.00       -1.11*         31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -1.91*         37       0.826       43.92       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.78*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77       -3.79*							
27       4.408       46.06       46.00       0.06*         28       7.689       49.77       50.00       -0.23*         29       2.190       45.43       46.00       -0.57*         30       4.902       44.89       46.00       -1.11*         31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -1.91*         37       0.826       43.92       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.78*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77       -3.79*							
28       7.689       49.77       50.00       -0.23*         29       2.190       45.43       46.00       -0.57*         30       4.902       44.89       46.00       -1.11*         31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -1.91*         37       0.826       43.92       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.78*         40       2.023       43.22       46.00       -3.23*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77       -3.79*							
29       2.190       45.43       46.00       -0.57*         30       4.902       44.89       46.00       -1.11*         31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.48*         33       4.361       44.46       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -1.91*         37       0.826       43.92       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.68*         40       2.023       43.22       46.00       -2.78*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77       -3.79*							
30       4.902       44.89       46.00       -1.11*         31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.54*         33       4.361       44.46       46.00       -1.56*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -1.91*         37       0.826       43.92       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.68*         40       2.023       43.22       46.00       -2.78*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77       -3.79*							
31       2.077       44.52       46.00       -1.48*         32       3.761       44.52       46.00       -1.48*         33       4.361       44.46       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -1.91*         37       0.826       43.92       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.68*         40       2.023       43.22       46.00       -2.78*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77       -3.79*							
32       3.761       44.52       46.00       -1.48*         33       4.361       44.46       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -1.91*         37       0.826       43.92       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.68*         40       2.023       43.22       46.00       -2.78*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77       -3.79*							
33       4.361       44.46       46.00       -1.54*         34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -1.91*         37       0.826       43.92       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.68*         40       2.023       43.22       46.00       -2.78*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77       -3.79*							
34       4.029       44.44       46.00       -1.56*         35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -1.91*         37       0.826       43.92       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.68*         40       2.023       43.22       46.00       -2.78*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77       -3.79*							
35       5.996       48.26       50.00       -1.74*         36       4.851       44.09       46.00       -1.91*         37       0.826       43.92       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.68*         40       2.023       43.22       46.00       -2.78*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77       -3.79*							
36       4.851       44.09       46.00       -1.91*         37       0.826       43.92       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.68*         40       2.023       43.22       46.00       -2.78*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77       -3.79*							
37       0.826       43.92       46.00       -2.08*         38       2.722       43.76       46.00       -2.24*         39       3.702       43.32       46.00       -2.68*         40       2.023       43.22       46.00       -2.78*         41       4.624       42.77       46.00       -3.23*         42       0.174       50.97       54.77       -3.79*							
38							
39 3.702 43.32 46.00 -2.68* 40 2.023 43.22 46.00 -2.78* 41 4.624 42.77 46.00 -3.23* 42 0.174 50.97 54.77 -3.79*							
40 2.023 43.22 46.00 -2.78* 41 4.624 42.77 46.00 -3.23* 42 0.174 50.97 54.77 -3.79*							
41 4.624 42.77 46.00 -3.23* 42 0.174 50.97 54.77 -3.79*							
42 0.174 50.97 54.77 -3.79*	_						
		_					
43 0.290 45.94 50.54 -4.59*	43	0.290	45.94	50.54	-4.59*		
44 0.286 45.94 50.63 -4.68*							
45 0.172 50.17 54.86 -4.69*							
46 2.840 41.27 46.00 -4.73*							
47 0.404 42.21 47.77 -5.56*	47	0.404	42.21	47.77			
48 7.856 44.28 50.00 -5.72*	48	7.856	44.28	50.00	-5.72*		

<sup>\*</sup>Please See the Average Readings on the Next Page and on the Plot



Universal Surveillance Systems Corporation Power 4 System Power 4 Booster Rx Pedestal AC Input FCC Class B - Maximum Power TEST ENGINEER: Kyle Fujimoto

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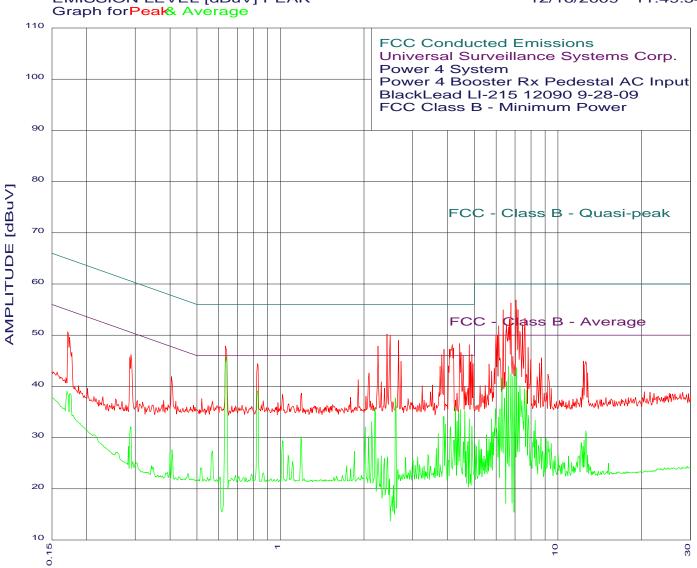
47 hi	ghest peak	ks above -	50.00 dB of F	FCC - Cla	ss B - Average limit line				
Peak	Peak criteria: 0.00 dB, Curve: Average								
Peak	# Freq(MH	lz)Amp(dB	uVLimit(dB)	Delta(dB	)				
1	0.637	48.16	46.00	2.16*					
2	0.831	41.56	46.00	-4.44					
3	3.346	36.69	46.00	-9.31					

1	0.637	48.16	46.00	2.16*	
2 3	0.831	41.56	46.00	-4.44	
3 4	3.346 3.294	36.69 35.31	46.00 46.00	-9.31 -10.69	
5	3.419	35.23	46.00	-10.77	
6	3.456	34.44	46.00	-11.56	
7	3.175	34.18	46.00	-11.82	
8	3.124	34.17	46.00	-11.83	
9	3.059	34.08	46.00	-11.92	
10	3.243	33.60	46.00	-12.40	
11	3.529	33.51	46.00	-12.49	
12	6.288	37.44	50.00	-12.56	
13 14	6.356 1.184	37.28 33.04	50.00 46.00	-12.72 -12.96	
15	3.585	32.50	46.00	-12.90 -13.50	
16	2.885	32.02	46.00	-13.98	
17	6.186	36.00	50.00	-14.00	
18	6.123	35.97	50.00	-14.03	
19	0.570	31.65	46.00	-14.35	
20	2.995	31.52	46.00	-14.48	
21	0.404	33.21	47.77	-14.56	
22 23	0.173 2.948	40.17 31.13	54.81 46.00	-14.64 -14.87	
23 24	6.059	34.60	50.00	-14.87 -15.40	
25	1.021	30.46	46.00	-15.54	
26	2.826	30.46	46.00	-15.54	
27	3.644	30.29	46.00	-15.71	
28	2.707	29.83	46.00	-16.17	
29	6.458	33.52	50.00	-16.48	
30	2.596	29.48	46.00	-16.52	
31 32	5.901 0.290	33.15 33.57	50.00 50.54	-16.85 -16.96	
33	3.722	28.98	46.00	-17.02	
34	3.761	28.90	46.00	-17.10	
35	0.285	33.41	50.67	-17.26	
36	2.766	28.71	46.00	-17.29	
37	6.525	32.57	50.00	-17.43	
38	5.964	32.53	50.00	-17.47	
39	4.159	28.45	46.00	-17.55	
40 41	4.339	28.37	46.00	-17.63	
42	1.072 2.488	28.33 28.12	46.00 46.00	-17.67 -17.88	
43	4.050	27.70	46.00	-18.30	
44	2.651	27.62	46.00	-18.38	
45	0.518	27.57	46.00	-18.43	
46	4.272	27.31	46.00	-18.69	
47	3.800	27.28	46.00	-18.72	

\*This is a Radio Station Verified by the Audio Detector of the QP Detector and not the EUT. This signal is still present even when the EUT is turned off.









Universal Surveillance Systems Corporation Power 4 System Power 4 Booster Rx Pedestal AC Input FCC Class B - Minimum Power - Black Lead TEST ENGINEER : Kyle Fujimoto

					s B - Average limit line
			urve : Peak		
			uVILimit(dB)		
1 2	7.063	56.83	50.00	6.83* 6.31*	
3	6.773 7.178	56.31 54.94	50.00 50.00	4.94*	
3 4	6.356	54.88	50.00	4.94 4.88*	
5	2.423	50.14	46.00	4.00 4.14*	
6	2.488	49.95	46.00	3.95*	
7	7.606	53.27	50.00	3.27*	
8	6.700	53.11	50.00	3.11*	
9	2.665	48.96	46.00	2.96*	
10	4.432	48.36	46.00	2.36*	
11	4.159	48.15	46.00	2.15*	
12	4.799	48.08	46.00	2.08*	
13	7.450	52.06	50.00	2.06*	
14	6.525	51.90	50.00	1.90*	
15	0.634	47.84	46.00	1.84*	
16	2.250	47.83	46.00	1.83*	
17	6.123	51.77	50.00	1.77*	
18	6.627	51.60	50.00	1.60*	
19	4.204	47.45	46.00	1.45*	
20	4.071	47.24	46.00	1.24*	
21	3.882	47.23	46.00	1.23*	
22	7.294	50.75	50.00	0.75*	
23	4.480	46.56	46.00	0.56*	
24	4.902	46.19	46.00	0.19*	
25	3.820	46.13	46.00	0.13*	
26	4.552	46.07	46.00	0.07*	
27	6.059	49.96	50.00	-0.04*	
28	5.996	49.96	50.00	-0.04*	
29	2.722	44.86	46.00	-1.14* 1.21*	
30 31	4.851	44.79 44.42	46.00 46.00	-1.21* 1.50*	
32	0.826 4.954	44.42 44.39	46.00 46.00	-1.58* -1.61*	
33	4.029	43.94	46.00	-2.06*	
34	3.761	43.92	46.00	-2.08*	
35	7.815	47.58	50.00	-2.42*	
36	2.089	42.62	46.00	-3.38*	
37	6.882	45.82	50.00	-4.18*	
38	0.171	50.67	54.90	-4.23*	
39	0.290	46.14	50.54	-4.39*	
40	8.729	45.54	50.00	-4.46*	
41	1.908	41.30	46.00	-4.70*	
42	7.981	45.19	50.00	-4.81*	
43	0.286	45.74	50.63	-4.88*	
44	12.386	44.90	50.00	-5.10*	
45	2.310	40.84	46.00	-5.16*	
46	12.588	44.82	50.00	-5.18*	
47	0.174	49.57	54.77	-5.19*	
48	8.595	44.53	50.00	-5.47*	

<sup>\*</sup>Please See the Average Readings on the Next Page and on the Plot



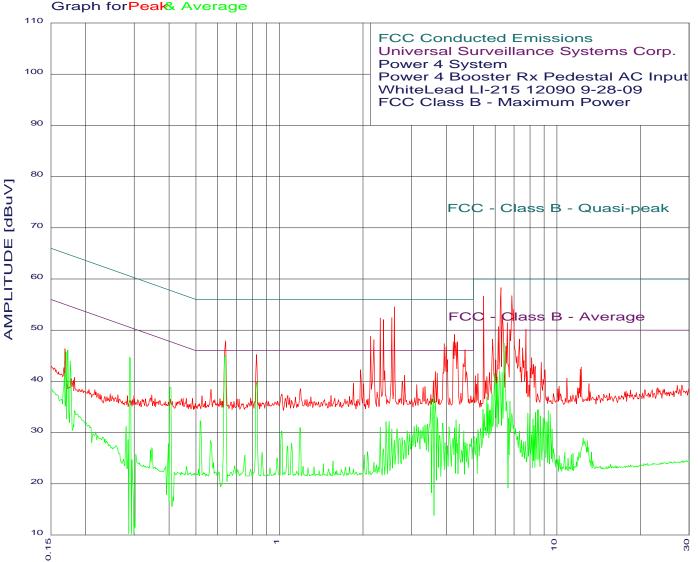
Universal Surveillance Systems Corporation Power 4 System Power 4 Booster Rx Pedestal AC Input FCC Class B - Minimum Power - Black Lead TEST ENGINEER: Kyle Fujimoto

49 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak# Freq(MHz)Amp(dBuVl.imit(dB) Delta(dB)  1
2 6.627 43.90 50.00 -6.10 3 7.100 43.64 50.00 -6.36 4 6.991 43.18 50.00 -6.82 5 0.826 39.07 46.00 -6.93 6 6.773 42.41 50.00 -7.59 7 6.882 41.89 50.00 -8.11 8 2.596 37.72 46.00 -8.28 9 6.288 41.61 50.00 -8.39
3       7.100       43.64       50.00       -6.36         4       6.991       43.18       50.00       -6.82         5       0.826       39.07       46.00       -6.93         6       6.773       42.41       50.00       -7.59         7       6.882       41.89       50.00       -8.11         8       2.596       37.72       46.00       -8.28         9       6.288       41.61       50.00       -8.39
4       6.991       43.18       50.00       -6.82         5       0.826       39.07       46.00       -6.93         6       6.773       42.41       50.00       -7.59         7       6.882       41.89       50.00       -8.11         8       2.596       37.72       46.00       -8.28         9       6.288       41.61       50.00       -8.39
5       0.826       39.07       46.00       -6.93         6       6.773       42.41       50.00       -7.59         7       6.882       41.89       50.00       -8.11         8       2.596       37.72       46.00       -8.28         9       6.288       41.61       50.00       -8.39
6 6.773 42.41 50.00 -7.59 7 6.882 41.89 50.00 -8.11 8 2.596 37.72 46.00 -8.28 9 6.288 41.61 50.00 -8.39
7 6.882 41.89 50.00 -8.11 8 2.596 37.72 46.00 -8.28 9 6.288 41.61 50.00 -8.39
8 2.596 37.72 46.00 -8.28 9 6.288 41.61 50.00 -8.39
9 6.288 41.61 50.00 -8.39
40 0 505 40 04 50 00 000
10 6.525 40.91 50.00 -9.09
11 7.294 40.07 50.00 -9.93
12 4.272 35.98 46.00 -10.02
13 2.190 35.66 46.00 -10.34
14 7.567 39.52 50.00 -10.48
15 4.456 35.44 46.00 -10.56
16 4.624 35.21 46.00 -10.79
17 7.689 39.20 50.00 -10.80
18 7.217 38.82 50.00 -11.18
19 4.384 34.82 46.00 -11.18
20 3.862 34.10 46.00 -11.90
21 6.424 37.71 50.00 -12.29
22 4.799 33.56 46.00 -12.44
23 7.411 37.21 50.00 -12.79
24 4.339 33.19 46.00 -12.81
25 2.134 33.09 46.00 -12.91
26 3.924 32.59 46.00 -13.41
27 4.902 32.25 46.00 -13.75
28 4.114 32.09 46.00 -13.91
29 2.023 32.03 46.00 -13.97
30 5.964 35.59 50.00 -14.41
31 6.186 35.58 50.00 -14.42
32 3.702 30.72 46.00 -15.28
33 7.815 34.36 50.00 -15.64
34 1.184 30.15 46.00 -15.85
35 2.077 30.13 46.00 -15.87
36 0.170 39.03 54.94 -15.91
37 6.123 33.94 50.00 -16.06 38 0.175 38.51 54.72 -16.21
41 1.016 29.34 46.00 -16.66 42 8.282 33.33 50.00 -16.67
43 4.748 29.24 46.00 -16.76
44 4.576 29.15 46.00 -16.85
45 5.901 31.91 50.00 -18.09
46 3.644 27.86 46.00 -18.14
47 0.288 32.02 50.58 -18.56

\*This is a Radio Station Verified by the Audio Detector of the QP Detector and not the EUT. This signal is still present even when the EUT is turned off.

## EMISSION LEVEL [dBuV] PEAK Graph for Peak Average





Universal Surveillance Systems Corporation Power 4 System Power 4 Booster Rx Pedestal AC Input FCC Class B - Maximum Power - White Lead TEST ENGINEER : Kyle Fujimoto

					B - Average limit li	ine
Peak	criteria :	1.00 dB, C	urve : Peak uVILimit(dB)	Dolto(dP)		
1	.# F164(IVIF 2.596	54.54	46.00	Delta(dB) 8.54*		
2	6.288	58.26	50.00	8.26*		
3	6.882	56.70	50.00	6.70*		
4	5.449	56.61	50.00	6.61*		
5	2.540	52.44	46.00	6.44*		
6	2.310	52.32	46.00	6.32*		
7	2.371	52.03	46.00	6.03*		
8	6.991	54.01	50.00	4.01*		
9	4.272	49.14	46.00	3.14*		
10	2.134	48.81	46.00	2.81*		
11	6.356	52.47	50.00	2.47*		
12	2.190	48.12	46.00	2.12*		
13	0.641	47.93	46.00	1.93*		
14	4.384	47.74	46.00	1.74*		
15	4.227	47.73	46.00	1.73*		
16 17	4.339	47.54 51.48	46.00	1.54*		
17 18	6.627 3.924	51.48 47.32	50.00	1.48* 1.32*		
19	3.987	46.72	46.00 46.00	0.72*		
20	6.154	50.65	50.00	0.65*		
21	4.672	46.16	46.00	0.16*		
22	7.731	50.16	50.00	0.16*		
23	6.773	50.09	50.00	0.09*		
24	0.826	45.21	46.00	-0.79*		
25	5.869	48.24	50.00	-1.76*		
26	7.333	48.23	50.00	-1.77*		
27	4.029	44.22	46.00	-1.78*		
28	6.559	46.88	50.00	-3.12*		
29	7.528	46.54	50.00	-3.46*		
30	1.960	42.20	46.00	-3.80*		
31	2.397	42.03	46.00	-3.97*		
32	3.644	41.90	46.00	-4.10*		
33	4.722	41.86	46.00	-4.14*		
34	3.702	41.60	46.00	-4.40*		
35	2.826	41.15	46.00	-4.85* 5.48*		
36 37	7.178 8.107	44.82 44.58	50.00 50.00	-5.18* -5.42*		
38	6.028	44.15	50.00	-5.42 -5.85*		
39	3.585	40.10	46.00	-5.90*		
40	2.781	40.05	46.00	-5.95*		
41	7.606	44.05	50.00	-5.95*		
42	8.777	43.72	50.00	-6.28*		
43	1.849	39.57	46.00	-6.43*		
44	2.013	39.50	46.00	-6.50*		
45	3.124	39.37	46.00	-6.63*		
46	8.238	43.29	50.00	-6.71*		
47	3.346	38.98	46.00	-7.02*		

<sup>\*</sup>Please See the Average Readings on the Next Page and on the Plot



Universal Surveillance Systems Corporation Power 4 System Power 4 Booster Rx Pedestal AC Input FCC Class B - Maximum Power - White Lead TEST ENGINEER: Kyle Fujimoto

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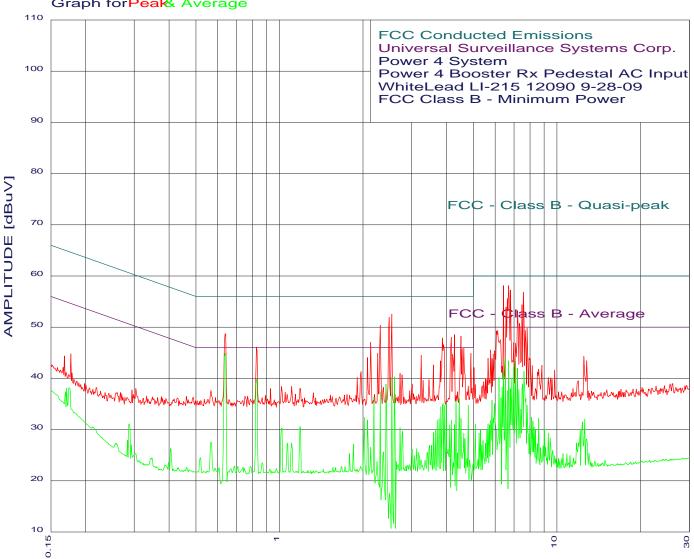
47 highest peaks above -50.00 dB of FCC - Class B - Average limit line Peak criteria: 0.00 dB, Curve: Average Peak# Freq(MHz)Amp(dBuV)Limit(dB) Delta(dB)
1 0.637 44.98 46.00 -1.02\*

			uvijimit(ab)	Delta(dB)
1	0.637	44.98	46.00	-1.02*
2	6.458	47.40	50.00	-2.60
3	0.288	44.66	50.58	-5.92
4	0.826	39.82	46.00	-6.18
5		42.05		-7.95
	6.220		50.00	
6	6.356	41.73	50.00	-8.27
7	5.964	41.51	50.00	-8.49
8	0.173	46.09	54.81	-8.72
9	0.404	38.85	47.77	-8.92
10	3.585	36.96	46.00	-9.04
11	6.123	40.87	50.00	-9.13
12				
	0.170	45.72	54.94	-9.22
13	3.511	36.22	46.00	-9.78
14	3.644	36.13	46.00	-9.87
15	6.059	39.59	50.00	-10.41
16	0.176	43.96	54.68	-10.71
17	5.838	37.58	50.00	-12.42
18	3.702	32.99	46.00	-13.01
19	5.597	36.89	50.00	-13.11
20	0.168	41.58	55.07	-13.50
21	4.339	32.45	46.00	-13.55
22	0.518	32.35	46.00	-13.65
23	2.488	32.17	46.00	-13.83
24	6.773	36.09	50.00	-13.91
25	2.423	32.08	46.00	-13.92
26	6.593	35.96	50.00	-14.04
27	3.882	31.78	46.00	-14.22
28	4.456	31.57	46.00	-14.43
29	3.419	31.57	46.00	-14.43
30	3.124	31.52	46.00	-14.48
31	5.656	35.51	50.00	-14.49
32	3.346	31.47	46.00	-14.53
33	3.059	31.20	46.00	-14.80
34	3.294	31.14	46.00	-14.86
35	4.092	31.10	46.00	-14.90
36	2.310	31.05	46.00	-14.95
37	3.175	31.00	46.00	-15.00
38	1.184	30.95	46.00	-15.05
39	4.272	30.94	46.00	-15.06
40	2.651	30.74	46.00	-15.26
41	2.540	30.63	46.00	-15.37
42	5.420	34.51	50.00	-15.49
43	8.595	34.47	50.00	-15.53
44	8.506	34.44	50.00	-15.56
45	5.774	34.40	50.00	-15.60
46	3.226	30.39	46.00	-15.61
47	5.715	34.36	50.00	-15.64
	0.7 10	J-1.50	00.00	10.04

\*This is a Radio Station Verified by the Audio Detector of the QP Detector and not the EUT. This signal is still present even when the EUT is turned off.

Silverado Division

## EMISSION LEVEL [dBuV] PEAK Graph for Peak Average



Report Number: B91216A1

Power 4 System
Model: USS-POWER4-A

FCC Part 15 Subpart B and FCC Section 15.209 Test Report



Universal Surveillance Systems Corporation Power 4 System Power 4 Booster Rx Pedestal AC Input FCC Class B - Minimum Power - White Lead TEST ENGINEER: Kyle Fujimoto

48 highest peaks above -50.00 dB of FCC - Class B - Average limit line											
Peak criteria: 1.00 dB, Curve: Peak											
Peak Citiena: 1.00 dB, Curve: Feak Peak#Freq(MHz)Amp(dBuVI).imit(dB) Delta(dB)											
1	6.700	58.09	50.00	8.09*							
2	6.424	58.07	50.00	8.07*							
3	6.809	57.20	50.00	7.20*							
4	7.567	56.85	50.00	6.85*							
5	2.540	52.54	46.00	6.54*							
6	2.488	51.93	46.00	5.93*							
7	6.627	55.58	50.00	5.58*							
8	7.489	54.34	50.00	4.34*							
9	2.310	50.32	46.00	4.32*							
10	6.559	53.88	50.00	3.88*							
11	7.217	53.22	50.00	3.22*							
12	0.641	48.63	46.00	2.63*							
13	4.272	48.54	46.00	2.54*							
14	4.504	48.25	46.00	2.25*							
15	4.159	48.03	46.00	2.03*							
16	3.862	47.81	46.00	1.81*							
17	2.134	47.01	46.00	1.01*							
18	7.333	50.73	50.00	0.73*							
19	3.903	46.61	46.00	0.61*							
20	0.826	46.11	46.00	0.11*							
21	4.624	45.96	46.00	-0.04*							
22	7.815	49.76	50.00	-0.24*							
23	4.552	45.75	46.00	-0.25*							
24	7.689	49.35	50.00	-0.65*							
25	6.123	49.35	50.00	-0.65*							
26	4.902	44.87	46.00	-1.13*							
27	2.262	44.82	46.00	-1.18*							
28	4.204	44.63	46.00	-1.37*							
29	3.243	44.48	46.00	-1.52*							
30	2.077	44.01	46.00	-1.99*							
31	3.800	43.41	46.00	-2.59*							
32	6.991	47.01	50.00	-2.99*							
33	7.100	46.82	50.00	-3.18*							
34	3.585	42.60	46.00	-3.40*							
35	5.774	45.53	50.00	-4.47*							
36	5.964	45.34	50.00	-4.66*							
37	1.971	41.30	46.00	-4.70*							
38	2.722	40.95	46.00	-5.05*							
39	5.901	44.74	50.00	-5.26*							
40	2.766	40.65	46.00	-5.35*							
41	12.521	44.29	50.00	-5.71*							
42	1.908	40.18	46.00	-5.82*							
43	7.940	43.97	50.00	-6.03*							
44	5.656	43.92	50.00	-6.08* -6.47*							
45	5.838	43.83	50.00	-6.17*							
46	3.456	39.69	46.00	-6.31* -6.43*							
47	3.294	39.58	46.00	-6.42*							
48	12.791	43.42	50.00	-6.58*							

<sup>\*</sup>Please See the Average Readings on the Next Page and on the Plot



Universal Surveillance Systems Corporation Power 4 System Power 4 Booster Rx Pedestal AC Input FCC Class B - Minimum Power - White Lead TEST ENGINEER: Kyle Fujimoto

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49 highest peaks above -50.00 dB of FCC - Class B - Average limit line Peak criteria: 0.00 dB, Curve: Average Peak# Freq(MHz)Amp(dBuV)Limit(dB) Delta(dB) 1 0.637 44.85 46.00 -1.15\*

Peak# Freq(MHz)Amp(dBuVLimit(dB) Delta(dB)							
1	0.637	44.85	46.00	-1.15*			
2	2.596	40.31	46.00	-5.69			
3	2.540	40.15	46.00	-5.85			
4	6.525	44.01	50.00	-5.99			
5	0.826	39.78	46.00	-6.22			
6	6.700	43.39	50.00	-6.61			
7	7.100	43.29	50.00	-6.71			
8	2.423	38.83	46.00	-7.17			
9	6.991	42.14	50.00	-7.86			
10	7.217	41.94	50.00	-8.06			
11	2.310	37.37	46.00	-8.63			
12	6.424	41.36	50.00	-8.64			
13	7.606	41.36	50.00	-8.64			
14	2.190	36.33	46.00	-9.67			
15	6.186	40.16	50.00	-9.84			
16	4.456	36.12	46.00	-9.88			
17	6.882	40.06	50.00	-9.94			
18	4.339	35.67	46.00	-10.33			
19	3.987	35.18	46.00	-10.82			
20	3.882	35.11	46.00	-10.89			
21	7.528	38.91	50.00	-11.09			
22	3.924	34.80	46.00	-11.20			
23	4.799	34.75	46.00	-11.25			
24	3.820	34.41	46.00	-11.59			
25	6.356	38.33	50.00	-11.67			
26	6.809	37.95	50.00	-12.05			
27	7.294	37.78	50.00	-12.22			
28	6.627	37.61	50.00	-12.39			
29	2.023	32.35	46.00	-13.65			
30	6.288	36.17	50.00	-13.83			
31	4.504	32.15	46.00	-13.85			
32	3.761	32.10	46.00	-13.90			
33	7.731	35.98	50.00	-14.02			
34	4.159	31.87	46.00	-14.13			
35	2.077	31.82	46.00	-14.18			
36	3.702	31.76	46.00	-14.24			
37	5.838	35.74	50.00	-14.24			
38	5.964	35.05	50.00	-14.95			
39	4.272	30.95	46.00	-15.05			
40	4.114	30.94	46.00	-15.05			
41	7.815	34.71	50.00	-15.29			
42	1.184	30.62	46.00	-15.29			
43							
43 44	2.722 1.016	30.36	46.00 46.00	-15.64 -15.70			
44 45	7.411	30.30 33.97	50.00	-15.70 -16.03			
45 46	7.411 3.644	33.97 29.90	46.00				
46 47	3.644 2.781	29.90 29.65	46.00 46.00	-16.10 -16.35			
<del>-+</del> /	2.701	29.00	40.00	- 10.33			

\*This is a Radio Station Verified by the Audio Detector of the QP Detector and not the EUT. This signal is still present even when the EUT is turned off.