Page No. C-1 of 19 Wyle Test Report No. T58650.01-01

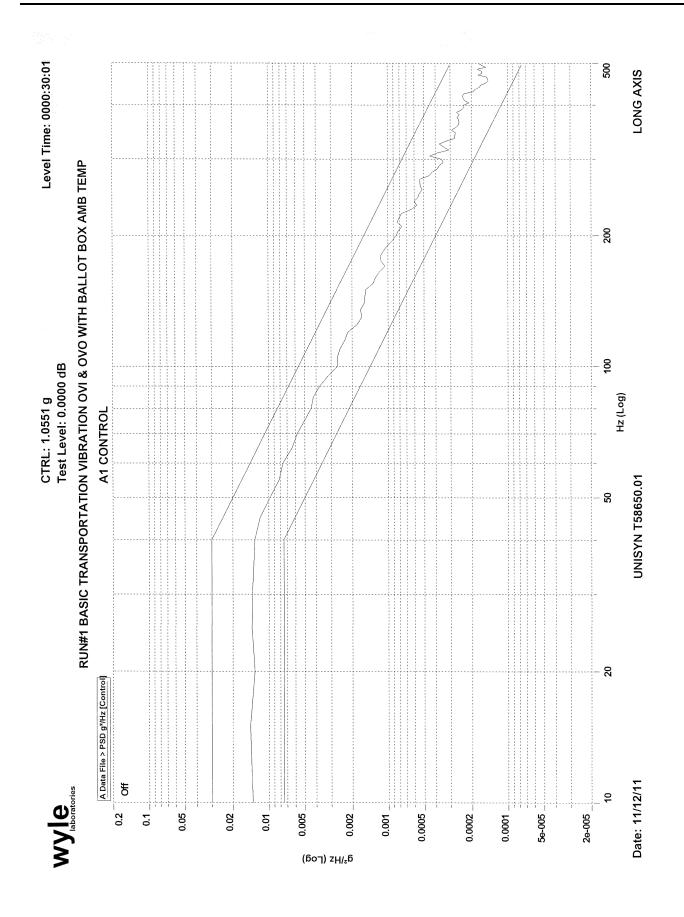
APPENDIX C

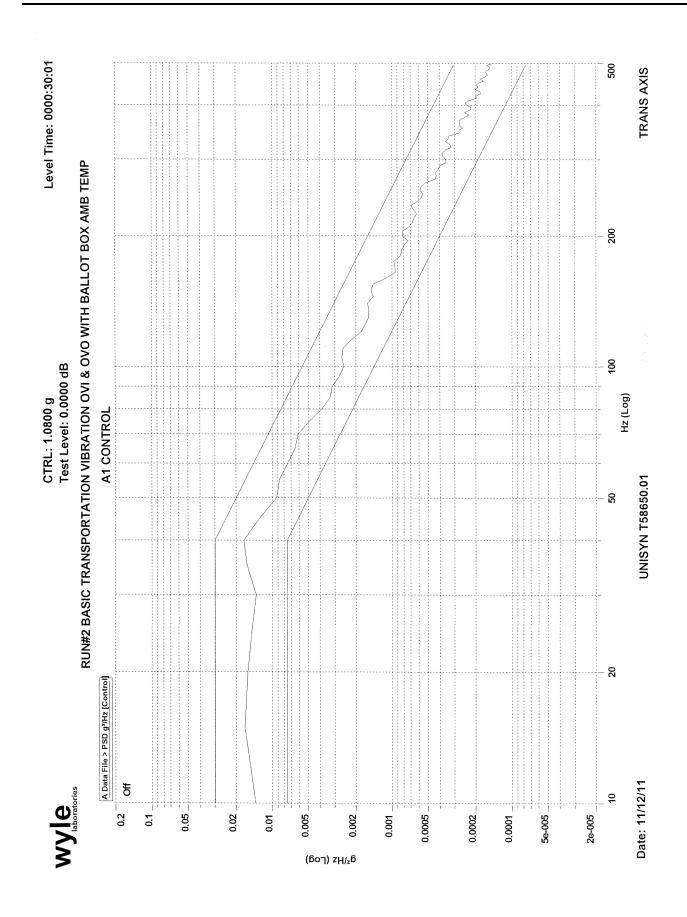
HARDWARE TEST RESULTS

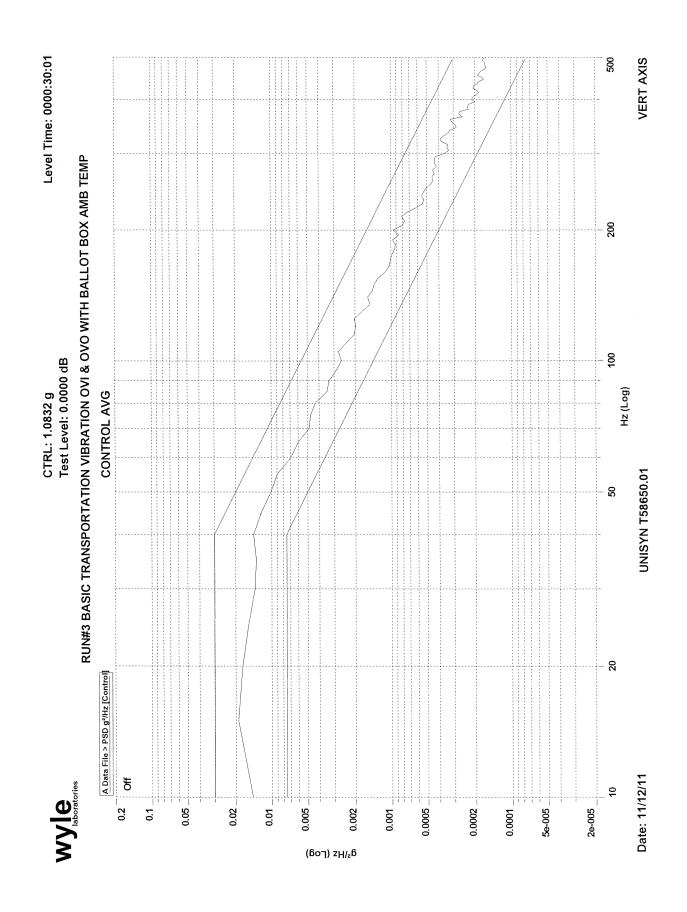
Page No. C-2 of 19 Wyle Test Report No. T58650.01-01

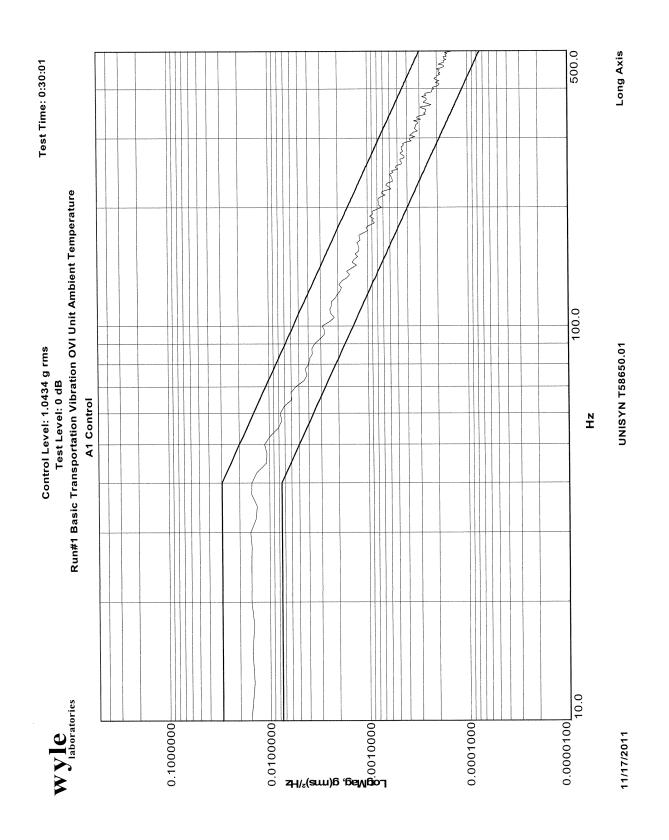
VIBRATION TEST DATA SHEET

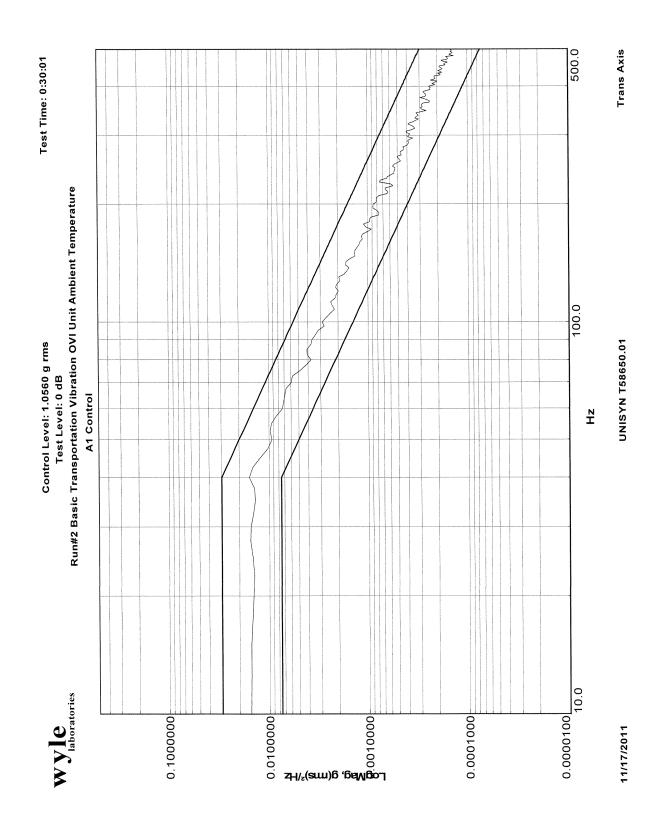
Comments Comments	Customer UNISYN Spec. E/Job No. T58650.01 Method	Spec. Method	Spec. Method				AC 200 Section	EAC 2005 VVSG Vol. II Section 4.6.3	Vol. II	Specimen Part No.	_ '	OVI UNI150012	Specimen Temp.	Ambient
Total Total Test Comments PSD Slope Accel. Time Comments	GSI Yes No X Procedure				Proced	25	1			ı	1		Yes	
NAME PSD Slope Accel Time COMMENTS NAME PSD Slope Accel Time COMMENTS Name PSD Slope Accel Time TEST REQUIREMENT Test Requireme	Transportation Vibration	ransportation Vibration	ortation Vibration	n Vibration	on									
PSD Stope Accel. Time COMMENTS	SINUSOIDAL	SINUSOIDAL	SINUSOIDAL	SINUSOIDAL	ابدا				SANDOM		TOTAL	Test		Little
TEST REQUIREMENT 1.04 0.00015 1.04 30 Vibration 3.0 Vibration 3.0	Time Axis Temp Freq. Disp. Accel. (F) (cps) ("da) (±g)	Axis Temp Freq. Disp. ("da)	Freq. Disp. ("da)	Freq. Disp. ("da)		Aco +	<u>=</u>	Freq. (cps)	PSD (g2/Hz)	Slope (dB/Oct)	Accel. (grms)	Time (min)	COMMENTS	NAME
Continuation Cont							┢						TEST REQUIREMENT	
Nonote No. Nibration No. Nibration No. Nibration No. Nibration No. Nibration N	12:05 Long Amb		Amb					10-40	.015				Run#1 Basic Transportation	5/2
Report NoT58650.01-01								500	.00015		1.04	30	Vibration	
Run#2 Basic Transportation Stoot														
Note	13:44 Trans Amb		Amb					10-40	.015				Run#2 Basic Transportation	35
Report No								500	.00015		1.05	30	Vibration	
Report No														
Report NoT58650.01-01 Date11/17/11 Page1 of1 88 90.1 98 90.1	15:27 Vert Amb		Amb				t I	10-40	.015				Run#3 Basic Transportation	24
Report No. <u>T58650.01-01</u> Date <u>11/17/11</u>								500	.00015		1.05	30	Vibration	
Report No. <u>T58650.01-01</u> Date <u>11/17/11</u>														
ort No. <u>T58650.01-01</u> <u>11/17/11</u>							i							Repo Date
<u>T58650.01-01</u> 11/17/11														ort No.
<u>650.01-01</u> 17/11														_ <u>T58</u> 11/
1-01														650.0 17/11
														1-01

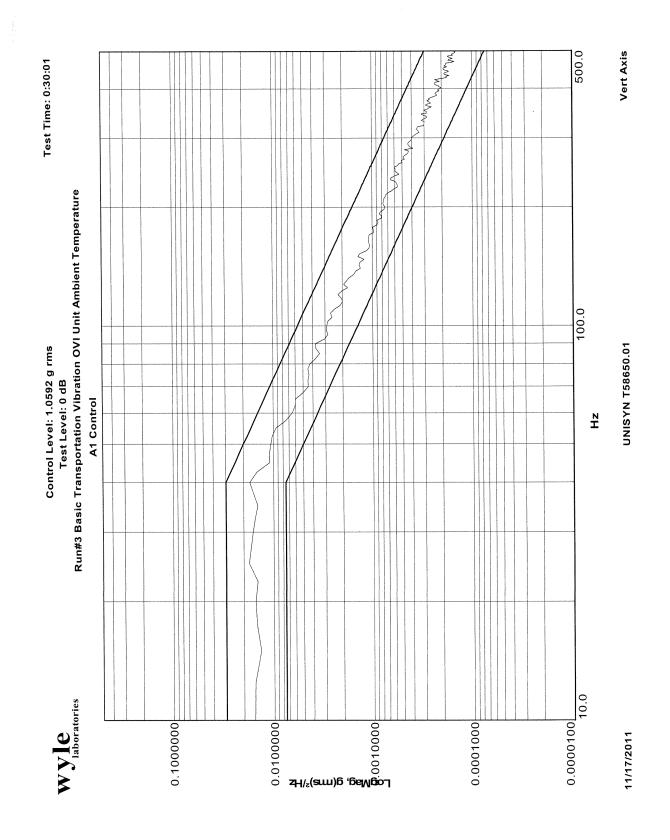












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wy	1e laboratories	DATA SHEET	Γ	Job No.: Start Date:	T58650.01 3 Nov 2011			
Customer:	Unisyn Voting Solutions	Temperature:	N/A	Humidity:	N/A			
EUT: OVI 15"		Measurement Point:	EU	TT @ All Four Sides	3			
Model No.:	OpenElect Voting Interface	Interference Signal:	:	1Khz @ 80% AM				
Serial No.:	UNI150012	Frequency Range:		80Mhz to 1Ghz				
Test Title	Electromagnetic Susceptibility				··········			

Test Frequency	Meets	Limit	Susceptibility Threshold Level	Maximum Signal Applied	Comments
()kHz (X)MHz ()GHz	Yes	No	()A ()V ()kV ()dBµA ()dBµV	(X)V/m ()Vrms ()dBμV/m ()dBpT	
80	X		>10	10	Vertical and Horizontal
1	1		\	\	↓
1,000	Х		>10	10	Vertical and Horizontal
				1	

Notice of Anomaly:	Tested By:	Date: 1/4/11
•	Technician	1111
Witness:	Approved: My mil	Date: 11/4/11
	Project Engineer	2 1
		Page of

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Wy ₁	le abouxtories	DATA SHEET
Customer:	Unisyn Voting Solutions	Temperature:
EUT:	OVI 15"	Measurement Point:

OpenElect Voting Interface

UNI150012

Model No.:

Serial No.:

Job No.: 10 Nov 2011 Start Date: **Humidity:** N/A See Comments Below 1Khz @ 80% AM

150Khz to 80Mhz

N/A

T58650.01

Test Title ____ Conducted RF Immunity

Interference Signal:

Frequency Range:

Test Frequency	Meets	Limit	Susceptibility Threshold Level	Maximum Signal Applied	Comments
()kHz (X)MHz ()GHz	Yes	No	()A (X)V ()kV ()dBµA ()dBµV (()V/m ()Vrms ()dBµV/m ()dBpT	
.150	X		>10	10	AC Power Cable
\			\	\	\
80	х		>10	10	AC Power Cable

Notice of Anomaly:	Tested By:	Date: 11/11/11
Trouble of Tribolitary	Tochnician	
Witness:	Approved: Ker Zixle	Date: 11/11/11
	Project Engineer	•
		Page of

WH-1432, Rev. Dec. 2004

Page No. C-11 of 19 Wyle Test Report No. T58650.01-01

le laboratories	DATA SHE	ET	Job No.: Start Date:	T58650.01 1/18/2011
Unisyn	Temperature:	72°F	Humidity:	41%
OVI 15"	Measurement Point:	See Test Points Below	•	
OpenElect Voting Interface	Interference Signal:	See Applied Signal		
UNI150012	Frequency Range:	N/A		
	Unisyn OVI 15" OpenElect Voting Interface	Unisyn Temperature: OVI 15" Measurement Point: OpenElect Voting Interface Interference Signal:	Unisyn Temperature: 72°F OVI 15" Measurement Point: See Test Points Below OpenElect Voting Interface Interference Signal: See Applied Signal	Unisyn Temperature: 72°F Humidity: OVI 15" Measurement Point: See Test Points Below OpenElect Voting Interface Interference Signal: See Applied Signal

Test Title Electrostatic Disruption

WH-1433, Rev. Dec. 2004

	Meets	Limit	Applied Level	Discharge	Times	
Test Points	Yes	No	(kV)	Type	Tested	Comments
Horizontal Coupling Plane	Х		±2, 4, 6, 8	Contact	10	Each Side of EUT
Vertical Coupling Plane	Х		±2, 4, 6, 8	Contact	10	Each Side of EUT
Keyhole	Х		±2, 4, 6, 8	Contact	10	
Right Side of OVI, Lower Chassis	Х		±2, 4, 6, 8	Contact	10	
Left Side of OVI, Lower Chassis	Х		±2, 4, 6, 8	Contact	10	
Back of OVI Right Screen Brace	Х		±2, 4, 6, 8	Contact	10	
Back of OVI, Right Side, Rivet	х		±2, 4, 6, 8	Contact	10	
Back of OVI, Left Side, ATI Connector	Х		±2, 4, 6, 8	Contact	10	
Right Side of OVI, Screen Brace	Х		±2, 4, 6, 8	Contact	10	
Monitor AC Adapter Light	Х		±2, 4, 8, 15	Air	10	
Monitor AC Adapter Cord Connector	Х		±2, 4, 8, 15	Air	10	
Monitor AC Adapter Side	Х		±2, 4, 8, 15	Air	10	
Monitor Upper Left Corner	Х		±2, 4, 8, 15	Air	10	
Monitor Lower Left Corner	Х		±2, 4, 8, 15	Air	10	
Monitor Center	Х		±2, 4, 8, 15	Air	10	
Monitor Status Light	X		±2, 4, 8, 15	Air	10	
Monitor Lower Right Corner	Х		±2, 4, 8, 15	Air	10	
Monitor Upper Right Corner	Х		±2, 4, 8, 15	Air	10	
Monitor Power Button	Х		±2, 4, 8, 15	Air	10	
Monitor Right Side	Х		±2, 4, 8, 15	Air	10	

Notice of Anomaly:	Tested By:	Date: //-22-//
	Technician	
Witness:	Approved: Kin Jan	Date: 11-22-11
	Project Engineer	
		Page of 2

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wy	le laboratories	DATA SHE	ET	Job No.: Start Date:	T58650.01 1/18/2011
Customer:	Unisyn	Temperature:	72°F	Humidity:	41%
EUT:	OVI 15"	Measurement Point:	See Test Points Below	-	
Model No.:	OpenElect Voting Interface	Interference Signal:	See Applied Signal		
Serial No.:	UNI150012	Frequency Range:	N/A		
Test Title	Electrostatic Disruption				

	Meets	Limit	Applied Level	Discharge	Times	
Test Points	Yes	No	(kV)	Type	Tested	Comments
Monitor Left Side	Х		±2, 4, 8, 15	Air	10	
OVI Case Left of Printer	Х		±2, 4, 8, 15	Air	10	
OVI Case Below Printer	Х		±2, 4, 8, 15	Air	10	
OVI Case Front, Gasket	Х		±2, 4, 8, 15	Air	10	
OVI Case Right Side, Gasket	Х		±2, 4, 8, 15	Air	10	
Power Switch	х		±2, 4, 8, 15	Air	10	
		-				
		<u> </u>	J	L	I	

Notice of Anomaly:	Tested By:	Date: //- 27-11
Witness:	Approved: Ryc air	Date: 11 - 22 - 11
WH-1433, Rev. Dec. 2004	Project Engineer	Page 2 of 2



INSTRUMENTATION EQUIPMENT SHEET

DATE:

11/11/2011

JOB NUMBER: T58650.01

TYPE OF TEST VIBRATION

TECHNICIAN: D.MEDLEY

CUSTOMER: UNISYN

ICVN TECT ADEA.

TEST AREA: DYN LAB

No	o. Description	Manufacturer	Model	Serial #	WYLE#	RANGE	ACCURACY	Cal Date	Cal Due
1	ACCELEROMETER	ENDEVCO	7704A-50	12608	04868 #	50pC/g	±5%	7/27/2011	1/27/2012
2	ACCELEROMETER	ENDEVCO	7704A-50	12607	04869 0	50pC/g	±5%	7/27/2011	1/27/2012
3	CHARGE	ENDEVCO	2775A	EE30	112651 -	GAIN -	1.5%	7/21/2011	1/17/2012
4	CHARGE	ENDEVCO	2775A	ED75	112653 +	GAIN .	1.5%	7/21/2011	1/21/2012
5	DMM	KEITHLEY	179A	196804	101203 🤋	1200VDC	±.04%DC	2/4/2011	2/4/2012
6	VIB CONTROL	SPECTRAL DYNAI	2400	1657	116969 -	MFG	MFG	3/9/2011	3/9/2012

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION:

11/11/11 CHECKED & RECEIVED BY:

Q.A.:

Page 1 of 1

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Page No. C-14 of 19 Wyle Test Report No. T58650.01-01



INSTRUMENTATION EQUIPMENT SHEET

DATE:

11/17/2011

JOB NUMBER: T58650.01

TYPE OF TEST VIBRATION

TECHNICIAN:

D.MEDLEY

CUSTOMER: UNISYN

TEST AREA: DYN LAB

N	o. Description	Manufacturer	Model	Serial #	WYLE#	RANGE	ACCURACY	Cal Date	Cal Due
1	ACCELEROMETER	ENDEVCO	7704-50	13073	02600	50 pC/g / 20-5kl	±5%	7/27/2011	1/27/2012
2	ACCELEROMETER	ENDEVCO	7704A-50	12634	04866	50pC/g	±5%	10/11/2011	4/8/2012
3	CHARGE	ENDEVCO	2775A	EE31	112649	GAIN	±1.5%	6/9/2011	12/6/2011
4	CHARGE	ENDEVCO	2775A	EE24	112652	GAIN	1.5%	6/9/2011	12/6/2011
5	DMM	KEITHLEY	179A	196804	101203	1200VDC	±.04%DC	2/4/2011	2/4/2012
6	DYN SIG	DATA PHYSICS CO	70499	10004048	02760	MULTI	MFG	5/4/2011	5/3/2012

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION:

Q.A.:

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CHECKED & RECEIVED BY:

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TECHNICIAN:

INSTRUMENTATION EQUIPMENT SHEET

DATE:

12/12/2011 C. MORFORD JOB NUMBER: T58650.01

CUSTOMER: UNISYN/ILTS

TYPE OF TEST USABILITY ACCESSIBILITY

TEST AREA: VSTL LAB 4

_N	o. Description	Manufacturer	Model	Serial #	WYLE#	RANGE	ACCURACY	Cal Date	Cal Due
1 2 3	MEASURE SET PUSH-PULL GAGE TAPE MEASURER	MITUTOYO CHATILLON LUFKIN	DIGIMATIC DPP-50 HV1048CME	7179294/0214 NSN	108976 101990 02710	1"/6" 50 lbs 26'/ 8meters	.0005" ±0.5 lb ±1in/±1mm	11/4/2011 7/6/2011 5/4/2011	11/4/2013 7/6/2012 5/4/2013

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION:

Payor Willa 12-12-11

CHECKED & RECEIVED BY:

Rendy Owens 12/0/

WH-1029A,REV,APR'99

Page 1 of 1

Page No. C-16 of 19 Wyle Test Report No. T58650.01-01



INSTRUMENTATION EQUIPMENT SHEET

DATE:

11/18/2011

J.MCDERMOTT

JOB NUMBER: T58650

TYPE OF TEST VVS 4.1.2.8,ESD

TECHNICIAN:

CUSTOMER: UNISYN

TEST AREA: EMI LAB

_	No.	Description	Manufacturer	Model	Serial #	WYLE#	RANGE	ACCURACY	Cal Date	Cal Due
1	10	DATALOGGER	EXTECH	42280	9051859	04926	-4°F to 144°F/0-	±1°F / ±3%RH	2/10/2011	2/10/2012
2		DISCHARGE	EMC-PARTNER	ESD3000DM1	049	03229	150pF	MFG	12/17/2010	12/17/2011
3		ESD GUN	EMC-PARTNER	ESD3000	059	04446	16.5 KV	±10%	12/17/2010	12/17/2011
4	8	ESD TARGET	HAEFELY TRENCI	2520311	152461	110794	15KV	±5%	11/11/2011	11/21/2011
5	-	OSCILLOSCOPE	TEKTRONIX	TDS684C	B020598	116832	1GHz BW	<50ps@5GS/s	11/18/2011	11/28/2011

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION:

CHECKED & RECEIVED BY:

WH-1029A, REV, APR'99



INSTRUMENTATION EQUIPMENT SHEET

DATE:

11/21/2011

JOB NUMBER: T58650.01

TYPE OF TEST FCC PART 15

TECHNICIAN: J. SMITH

CUSTOMER: ILTS

TEST AREA: OATS 2

No	Description	Manufacturer	Model	Serial #	WYLE#	RANGE	ACCURACY	Cal Date	Cal Due
1	ANTENNA	ELECTROMETRIC	EM-6917A-1	124116	114415	30MHZ - 3GHZ	SEE DATA	7/20/2011	7/20/2013
2	ATTEN	NARDA	776C-20	1711	02173 -	20dB	MFG	1/13/2011	1/13/2012
3	EMI TEST RCVR	ROHDE SCHWARZ	ESCI	100386	117803 -	MULTI	MFG	12/8/2010	12/8/2011
4	LISN	FISHER CC	FCC-LISN-50-15-1-01	02067	117145	10KHz to 100M	1 ±0.7dB	8/20/2010	8/20/2012
5	LISN	FISHER CC	FCC-LISN-50-15-1-01	02068	117146	10KHz to 100M	±0.7dB	8/20/2010	8/20/2012
6	LISN	SOLAR	8028-50	956303	113693	10K-30MHZ	CERT	9/9/2010	9/9/2012
7	LISN	SOLAR	8028-50	968418	113694	10K-30MHZ ,	CERT	9/9/2010	9/9/2012
8	LISN	SOLAR	8028-50-TS-24-BNC	974623	113973	10K-100MHZ	CERT	9/9/2010	9/9/2012

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology.

INSTRUMENTATION:

Q.A.:

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INSTRUMENTATION EQUIPMENT SHEET

DATE:

11/3/2011

JOB NUMBER: T58650

TYPE OF TEST VSG 4.1.2.10

TECHNICIAN: J. GALEONE

N III

CUSTOMER: UNISYN/ILTS

TEST AREA: EMI LAB CHAMBER 1

No	. Description	Manufacturer	Model	Serial #	WYLE#	RANGE	ACCURACY	Cal Date	Cal Due
1	AMPLIFIER	AMP RESEARCH	500W1000A	25361	03141	80MHz to 1GHz	NCR	8/10/2011	8/10/2012
2	ANTENNA	AR	AT6080	0330329	02247	80-6000MHz	NCR	3/28/2011	3/28/2020
3	DIR COUPLER	AMP RESEARCH	DC6080	21207	113788	80-1000MHZ	.5db	5/17/2011	5/17/2012
4	SIG GEN	MARCONI	2023	112224/092	L12224	9kHz-1.2GHz	±0.8dB	1/4/2011	1/4/2012
5	SPEC ANAL	AGILENT	E4446A	US42070108	110948	44 GHz	CERT	6/3/2011	6/3/2012
6	TAPE MEASURER	LUFKIN	HV1048CME	NSN	02710	26'/ 8meters	±lin/±lmm	5/4/2011	5/4/2013

traceable to the National Institute of Standards and Technology	ation is	we instruments were calibrated using state-of-the-art techniques with standards whose calibrated	his is to certify that t	This

INSTRUMENTATION:

54/1

CHECKED & RECEIVED BY:

Page 1 of 1

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INSTRUMENTATION EQUIPMENT SHEET

DATE:

11/10/2011

JOB NUMBER: T58650

TYPE OF TEST VVSG 4.1.2.11

TECHNICIAN: J. GALEONE

CUSTOMER: UNISYN/ILTS

TEST AREA: EMI LAB CHAMBER 1

No	. Description	Manufacturer	Model	Serial #	WYLE#	RANGE	ACCURACY	Cal Date	Cal Due
1	AMPLIFIER	AR	2500A225	NSN	01308	MFG	NCR	8/11/2011	8/11/2013
2	ATTEN	BIRD	25-T-MN	0129	03142	50 OHMS 25 W.	MFG	5/23/2011	5/23/2012
3	ATTENUATOR	NARDA	769-6	03180	04860	DC to 6GHz	MFG	3/16/2011	3/16/2012
4	DIR COUPLER	AMP RESEARCH	DC3010	304022	117208	.01-1000MHz	±0.8dB	4/13/2011	4/13/2012
5	PASS IMP ADAPT	FISHER CC	FCC-801-150-50-CDN	9785	116853	150KHz-230MH	MFG	7/15/2011	7/15/2012
6	PASS IMP ADAPT	FISHER CC	FCC-801-150-50-CDN	9784	116854	150KHz-230MH	MFG	7/15/2011	7/15/2012
7	PASSIVE	FISHER CC	FCC-801-150-50-CDN	04049/04050	110405	150KHZ - 230M	MFG	7/15/2011	7/15/2012
8	SIG GEN	AEROFLEX	2023A	202306/068	R20230	9KHz-1.2GHz	MFG	10/4/2011	10/4/2012
9	SPEC ANAL	AGILENT	E4446A	US42070108	110948	44 GHz	CERT	6/3/2011	6/3/2012
10	SPEC ANAL	AGILENT	E4446A	MY46180335	R80335	MFG	MFG	7/25/2011	7/25/2013
11	TAPE MEASURER	LUFKIN	HV1048CME	NSN	02708	8meters	±1mm	4/14/2010	4/14/2012

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is traceable to the National Institute of Standards and Technology

INSTRUMENTATION:

WH-1029A,REV,APR'99

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