Page No. L-1 Test Report No. 46058-01

ATTACHMENT L

SAND/DUST TEST DATA SHEET AND CIRCULAR CHARTS

Page No. L-2 Test Report No. 46058-01

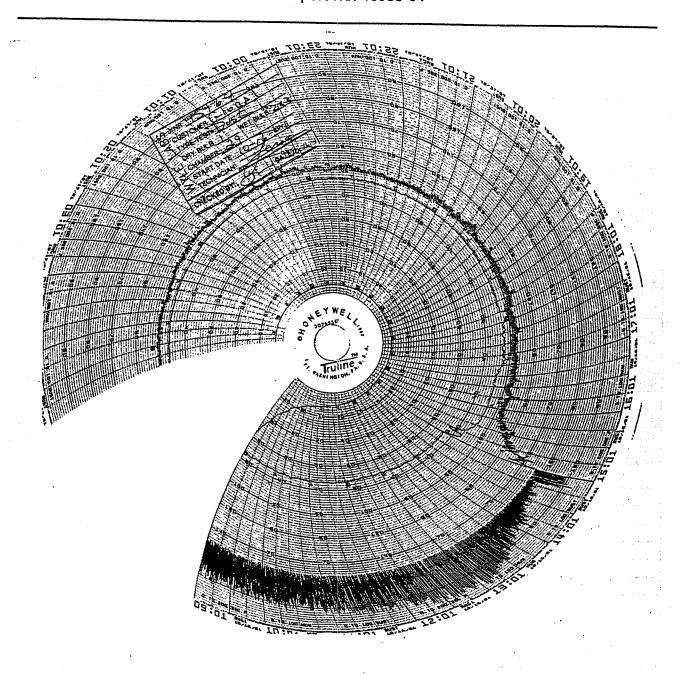
This page intentionally left blank.

Page No. L-3 Test Report No. 46058-01

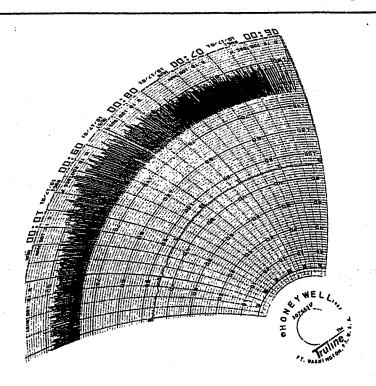
DATA SHEET

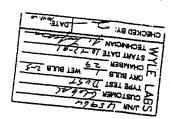
Customer	Global Election S	ystems	WYLE LABORATORIES			
Specimen	AccuVote-TS R6	DRE Voting Machin	c		· · · · · · · · · · · · · · · · · · ·	
Part No.	AVTS-R6			Job No.	46058	
Spec	FEC Standard	Photo		Report No.		
Para	7.3.2.9	Test Med			10.17.01	
S/N		Specimen Temp	. <u>~74°</u> F			
GSI	No					
lest little	Sand and Dust E	xposure			·	
Test Configurati						
AV IS-R6 place	d within a Global Poll	ing Booth, Model 00	01. The booth util	izes a gasket (3M F	roduct, P/N	
4308/4310) arou	and its outer edges for	added protection aga	inst moisture and	or particulate intru	sion.	
The R6 w/Pollin	ng Booth was placed in	side the dust chambe	ar and subjected to	the required Blow	ing Dust	
requirements pe	Mil-Std-810D, Meth	od 510.2, Procedure	I, Blowing Dust.	This test is intended	to evaluate the	
display surfaces	uipment to survive exp	osure to dust and hin	e sand that may p	enetrate into cracks	, crevices, switches,	
	, and orconomicensmice	u paris.				
m / S .				· · · · · · · · · · · · · · · · · · ·		
Test Results:						
Upon removal o	f the R6 w/Polling Boo	oth from the dust test	chamber, the inte	rior of the booth w	as inspected for any	
obvious signs of	dust intrusion. Very n	ninute traces of dust	intrusion were obs	served and was limi	ited to the area	
around the ninge	es of the booth. The Re	hardware remained	dust free.			
· · · · · · · · · · · · · · · · · · ·			·		,	
•						
						
			·	<u></u>		
						
· · · · · · · · · · · · · · · · · · ·						
		Te	sted By	-Louis Date:	10-17-01	
			tness -		70-17-01	
			eet No.	of		
Notice of Anomal	ly:		proved		10.17-21	
Wyle Form WH 614A	Day ADD 194					
TTYPE CUITE VIEW 614A	L REV. APR 84					

Page No. L-4 Test Report No. 46058-01



Page No. L-5 Test Report No. 46058-01





Page No. L-6 Test Report No. 46058-01

This page intentionally left blank.

ATTACHMENT M
FCC TEST DATA

Page No. M-2 Test Report No. 46058-01

This page intentionally left blank.

Page No. M-3 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Table of Contents

SECTION 1. SUMMARY OF TEST RESULTS	3
GENERAL: ABSTRACT:	
SECTION 2.EQUIPMENT UNDER TEST (E.U.T.)	5
Description of E.U.T.: CLOCK, OSCILLATOR, Highest Frequencies Utilized: Modifications Incorporated in E.U.T.: Justification: Exercise Program: E.U.T. Photographs:	5 6 7 7
SECTION 3. EQUIPMENT CONFIGURATION	9
EQUIPMENT CONFIGURATION LIST:	9 10
SECTION 4. CONDUCTED EMISSIONS (MAINS PORTS)	11
PURPOSE:TEST DATA — CONDUCTED EMISSIONS, POWER LINES TEST# CEPV-02	11 13
SECTION 5.RADIATED EMISSIONS	15
Purpose: Test Data – Radiated Emissions, Electric Field, Test# REHE-02	15 17
SECTION 6.MICROWAVE RADIATED EMISSIONS	20
Purpose:Test Data - Microwave Radiated Emissions, Test# REWE-01	
SECTION 7.SAMPLE CALCULATIONS	24
CONDUCTED EMISSIONS: RADIATED EMISSIONS:	
SECTION 8.BLOCK DIAGRAMS	
CONDUCTED EMISSIONS: RADIATED PRESCAN: OUTDOOR TEST SITE FOR RADIATED EMISSIONS:	25
SECTION 9. LABELING REQUIREMENTS	27

Page No. M-4 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Section 1.

Summary of Test Results

General:

All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with CFR 47, Part 15, Subpart B for Class B Digital Devices.

These tests were conducted using measurement procedures of ANSI C63.4-1992.

The equipment was tested for conducted emissions from 0.150 MHz to 30 MHz using a 50 microhenry line impedance stabilization network (L.I.S.N.) as described in ANSI C63.4-1992. Peripheral equipment was also operated through a 50 microhenry L.I.S.N.

The equipment was tested for radiated emissions from 30 MHz to 5000 MHz in accordance with the requirements of CFR 47, Part 15, Subpart B. Frequencies were initially identified in a large shielded room. Amplitude measurements were made on an outdoor Open Area Test Site. Details of the outdoor site are on file with the FCC.

Abstract:

Name of Test	Basic Standard	Results
Conducted Emissions (Mains port)	CFR 47, Part 15, Subpart B, Para. No. 15.107	Complies
Radiated Emissions	CFR 47, Part 15, Subpart B, Para. No. 15.109	Complies
Microwave Radiated Emissions	CFR 47, Part 15, Subpart B, Para. No. 15.109	Complies

Page No. M-5 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Nemko Dallas, Inc. authorizes the above named company to reproduce this report provided it is reproduced in its entirety, for use by the company's employees only.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Nemko Dallas, Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

This report applies only to the item/s tested and does not constitute endorsement by the United States of America.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE: NONE

Page No. M-6 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Section 2. Equipment Under Test (E.U.T.)

Manufacturer:

Global Election Systems

Name:

AccuVote

Model Number:

R6

Serial Number:

100003

Part Number:

FB-GS0001-000A

Production Status:

Preproduction

E.U.T. Arrival Date:

9/26/01

Description of E.U.T.:

Precinct level election tabulation

Clock, Oscillator, Highest Frequencies Utilized: 4MHz, 7.373MHz, 12MHz, 12.288MHz, 29.491MHz, 65MHz, 32.5MHz, 11.059MHz, 16MHz, 650MHz

Page No. M-7 Test Report No. 46058-01

Ne	mko Dal	las, In	E.	CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6				
Мо	dification	s Incorp	porated in E.U.T.:					
			MODIFICATION RECORD)			i latar Latar	
Job#:	1L0538E		Company Name:	Global Elect	on Systems	1994 -		
Date	Tech Intis	Mod. #		Photograph	Include I	Report		
9/27/01	J. FISH		Added modified printer control board with EMI fixes	0	☑ Yes	☐ No	500 F	
9/27/01	J. FISH		Changed to Rev 4.2 motherboard with screen jitter fix rework	0	⊘ Yes	□ No		
9/27/01	J. FISH		Changed to Rev. 4.0 LCD board inverter board cable is taped to back of LCI with conductive tape. The slot on the cable cover of the video module is covered with conductive tape		☑ Yes	□ No	1	
9/27/01	J. FISH	····	A 19" piece of 12AWG was added between the LCD board ground to the sheet metal base		☑ Yes	□ ‰		
9/27/01	J. FISH		The slot on the cable cover of the video module is covered with conductive tape		 ∀es	□ No		
9/27/01	J. FISH		Ferrite added to LCD power cable, ground wire, and LCD power/ ground wire combination in video modute.	0	☑ Yes	□ №		
	Client Signa		David Penetta only for modifications included in report		•			

Page 6 of 27

Page No. M-8 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Justification:

The E.U.T. was configured for testing as per typical installation. Position and bundling of cables were investigated to establish maximum amplitude of emissions.

The following combinations were investigated to establish worst case configuration: Election Mode - Insert Voter Card Screen

Exercise Program:

The E.U.T. exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to typical use.

Exercise Mode:

Election Mode - Insert Voter Card Screen

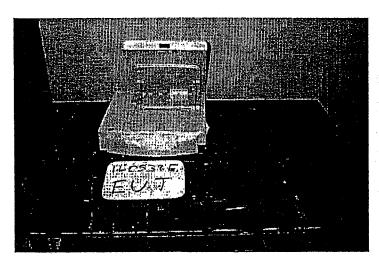
Page 7 of 27

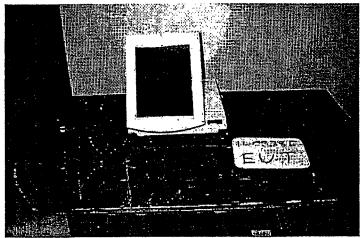
Page No. M-9 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

E.U.T. Photographs:





Page 8 of 27

Page No. M-10 Test Report No. 46058-01

Nemko	Dallas,	Inc.
-------	---------	------

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Section 3.

Equipment Configuration

Equipment Configuration List:

EQUIPMENT CONFIGURATION LIST (HARDWARE/PERIPHERALS):

Place an "*" next to EUT and any item that is part of the EUT.

ltem	Ŀ	Generic Description	Manufacturer	Model No.	Serial #	Dev	FCC ID Status
(A)	•	Voting Machine	Global Election	Accuvote	100003	1000	ree in sum.
(B)	•	Voting Machine	Global Election	Accuvote	100005		دع
(C)					100003		
(D)				 			
Œ			1				
Œ			1				
(G)							
(H)			<u> </u>				
(D)							
(1)							
(K)	Г						
(L)			T				,

1. FCC DOC
2. FCC A/B Verification

3. None - (If performing FCC testing, contact lab manager)
4. Certification (include FCC ID in perenthesis)

INTER-CONNECTION CABLES:

Place an "*" next to EUT and any item that is part of the EUT.

	-	Cable Type	Manufacturer	La (m)	Term	Shield	Oty.
(1)		Power Cord	Generic	2	1 3	No	1
(2)	٠	Power Cord	Generic .	1 3	1 3 1	No	ŀ÷
(3)					 	110	
(4)					1		-
(5)					++		<u> </u>
(6)	Г				 		
(7)					1-1		
(8)							
(9)	_						
(10)							<u> </u>
(11)							
(12)							
(13)	_				1		

*TERMINATION

1. Peripheral

4. Resistive

2. Loopback 3. EUT

5. Remote Equipment 6. Other

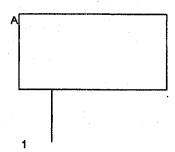
Page 9 of 27

Page No. M-11 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accurate, Model R6

Configuration of the Equipment Under Test (E.U.T.):



Page 10 of 27

Page No. M-12 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Section 4. Conducted Emissions (Mains ports)

Purpose:

The test is intended to demonstrate the compliance of the Equipment Under Test (E.U.T.) to the limits for conducted disturbance as defined by CFR 47, Part 15, Subpart B, Class B, Paragraphs Number 15.107.

Specification Limits:

Limits for conducted disturbance at the mains ports

Frequency	Maximum Powerline	Conducted RF Voltage
(MHz)	μV	dBuV
0.45 - 30.0	250	48

Method of Measurement (Procedure ANSI C63.4-1992):

Measurements were made using a spectrum analyzer with 10 kHz RBW, Peak detector. Any emissions that are close to the limit are measured using a test receiver with 9 or 10 kHz bandwidth, CISPR Quasi-Peak detector.

See Sections 7 and 8

Page No. M-13 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Test #:

CEPV-02

Tested By:

J. FISH

Date of Tests:

9/27/01

Test Conditions:

Test Voltage:

115

Temperature:

26℃

Humidity:

32%

Test Results:

The E.U.T. complies.

The worst case emission is 29.2 Db μ V at 17.7 MHz on the Neutral side of the line. This is -18.8 dB below the quasi-peak specification limit of 48.0dB μ V/m

TEST EQUIPMENT

Asset Number	Description	Manufacturer	Model Number	Serial Number	Last Cal	Cal Due
969	lisn	Schwarzbeck	8120	8120281	7/18/01	7/18/02
1555	Filter high pass 5KHz	Solar Electronics	7930-5.0	933125	5/29/01	5/29/02
1129	CABLE, 9.5m	KTL	RG58	N/A	4/3/01	4/3/02
1325	CABLE, .5m	KTL	RG223	N/A	3/12/01	3/12/02
718	HP SPECTRUM ANALYZER	HEWLETT PACKARD	8591EM	3639A00980	11/21/00	11/21/01
1605	LIMITER	FISCHER	FCC-45013-1.2	184	12/16/00	12/16/01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Test Data - Conducted Emissions, Power Lines Test# CEPV-02

					Cond	lucted E	mission	s				
				1		• Voltage						
Comple		X							: 1L053	ert	T	
relimir	ary		-					500 #	Page		iesta	: CEPV-02
Client N	lama :	Clabal El	W F							·—-		
EUT Na		Global El	ection 8	ystems	<u> </u>							
	idel#:	R6	' ——									
UTP		FB-GS00	01 000									
UT Se		100003	01-000/	<u> </u>								
UT Co			dada I									
		Election I	MOGE - I	nsen vot	er Card S	creen						
pecific	ation :	CFR 47.	FCC PT	15 Cla	- D							
	cer#:	969		Terno	deg. C):	28	•	Refe	rence :			
P Filte		1555	•	Humidi		32	•				9/27/01	
able 1		1129	•	EUT Vo		115				Time	7:15	
able 2	#:	1325	•		equency:		•				J. FISH	
electo		716	•		endwidth:		•				LAB 5	F 60001 ==
electo		NA	•	QP Ban		10KHz	•		P		10538	E CEPV-02
imiter f	<i>:</i>	1605		Avg. Ba			•					
Meas. Fred.	EUT	Detector	Limit	Maler	Path	Transducer	Corrected	Spe	c.lmlt	CR/SL	Pass	T
MHz1	Test	Type	Тура	Reading	Loss	Factor	Reading	(di	BuV)	DIK.	Fal	
0.57	Point H	(P,OP, A)	(QP, A)	(dBuV)	(dB)	(dB)	(dBuV)	Q.P.	Avg.	(dB)	Unc.	Comment
1.3	H	P	OP	22.3	0.0	0.0	22.3	48.0		-25.7	Pass	
17.7	H	-	OP OP	29.1	0.0	0.0	21.6	48.0		-26.4	Pass	
		 	<u> </u>	23.1	U.U	0.0	29.1	48.0		-18.9	Pass	
0.57	N	P	OP	22.5	0.0	0.0	22.5			<u> </u>		
1.3	N	P	QP.	21.9	0.0	0.0	21.9	48.0		-25.5		<u> </u>
17.7	N	P	OP	29.2	0.0	0.0	29.2	48.0 48.0	-	-26.1	Pass	<u> </u>
						- 0.0	20.2	40.0		-16.8	Pass	
											0041111	
				· · · · ·								ED FROM TO 30MHz
											. I awinz	TO SUMIFIZE
												
												
												
												
												1
					}							
												
												
\dashv												
			1									
			\Box					1				

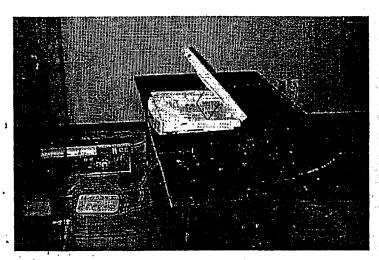
Page 13 of 27

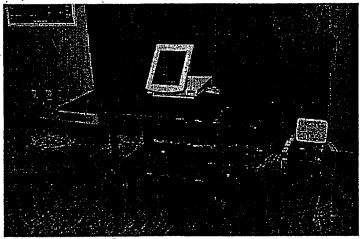
Page No. M-15 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accurote, Model R6

Test Photographs - Test # CEPV-02





Page 14 of 27

Page No. M-16 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accurate, Model R6

Section 5. Radiated Emissions

Purpose:

The tests are intended to demonstrate the compliance of the Equipment Under Test (E.U.T.) to the limits for radiated emissions as defined by CFR 47, Part 15, Subpart B, Class B, Paragraph Number 15.109.

Specification Limits:

Limits for radiated disturbance.

Frequency(MHz)	Maximum Field Strength at 3m and 10m							
<u> </u>	3m (μV/m)	3m (dBµV/m)	10m (μV/m)	10m (dBµV/m)				
30 - 88	100	40	31.6	30				
88 - 216	150	43.5	47.3	33.5				
216 - 960	200	46	63.1	36				
Above 960	500	54	158.5	44				

Method of Measurement (Procedure ANSI C63.4-1992):

The equipment was prescanned in a shielded room using a spectrum analyzer and broadband antenna. A list of frequencies was compiled for investigation in the open field. The equipment was then moved to an open area test site where amplitude measurements were made at a distance of 10 meters. The bandwidth was set to 100 kHz and the detector function was CISPR Quasi-Peak. Any emission within 6 dB of the specification limit is re-measured using a reference tuned dipole antenna per ANSI C63.4.

Any emissions above 1 GHz were measured with a horn antenna and low noise preamplifier at a distance of 3 meters.

See Sections 7 and 8

Page 15 of 27

Page No. M-17 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accurvote, Model R6

Test #:

REHE-02

Tested By:

J. FISH

Date of Tests:

9/27/01

Test Conditions:

Test Voltage:

115

Temperature:

26°C

Humidity:

31%

Test Results:

The E.U.T. complies.

The worst case emission is 38.6 dB μ V at 195.1 MHz in the Horizontal polarity. This is -4.9 dB below the specification limit of 43.5dB μ V/m

TEST EQUIPMENT

Asset Number	Description	Manufacturer	Model Number	Serial Number	Last Cal	Cal Due
499	Antenna-Biconica	ICC	BCON-30300	. 210	3/31/01	3/31/02
1034	ANTENNA,LP	A.H. SYSTEMS	SAS-200/510 .	121	2/1/01	2/1/02
1522	Cable Assy, LAB 5 - DOATS	KTL	Site D OATS	, N/A	12/12/00	12/12/01
762	27dB GAIN PREAMP	ICC	27dB LNA	946	5/29/01	5/29/02
1605	LIMITER	FISCHER	FCC-45013-1.2	184	12/16/00	12/16/01
718	HP SPECTRUM ANALYZER	HEWLETT PACKARD	8591EM	3639A00980	11/21/00	11/21/01
D OATS	Open Area Test Site	KTL	None	D	4/21/01	4/21/02

Page No. M-18 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accurote, Model R6

Test Data - Radiated Emissions, Electric Field, Test# REHE-02

					Radiat	ted Emis	sions D	ata				
Comple		x						Job #	: 1L053		T	
Prelimi	nary		_						Pag		_ lest a	: <u>REHE-0</u>
Client N	lame :	Global F	lection S	ivetame					-			
EUT N		AccuVot		70141113								
EUT M	odel#:	R6										
EUT Pa	ert#:	FB-GS0	001-000/									
EUT Se	rial # ;	100003		·								
EUT Co	onlig. :	Election	Mode - I	nsert Vo	ter Card :	Screen						
Specific	: noits:	CFR47	art 15. 5	Subpart i	B, Class E			0.4	rence :			
Rod, Ar	vi. #:				(deg. C)		-	Rek	Hence:	6-1	0000	
Bicon A	nt.#:	499	-		lly (%):	31	-				9/27/01	
og Ant		1034	-		olage :	115	-			Time	J. FISH	
Blog Ant.#:			-	EUT F	requency		-		•			E REHE-02
Dipale A			_	Phase:		1	-				: 100KHz	
Cable#:		1522	_	Locatio	in:	D OATS	-				100KHz	
Preamp		762		Distanc	280	. 3	-				- OUNTZ	
.imiter#		1605	-				-					
Atten #:		NA.	_									
Detector	r#: 	718	-									
Mana	Ank	DeL										
AND	~~	I Der	Meter	Antenna	Path	DE	Commercial	1000	ane:	T -		
Freq.	Pol	Alten.	Reading		Path	RF Gain	Corrected		CR/SL	Pass		•
Freq. (MHz)	Pol (H/V)				,	RF Gain (dB)	Reading	South	DIK.	Fel	Comm	•
Freq. (MHz) 48	Pol (H/V)	Atten. (d8)	Reading	Factor	Loss	Gein			DIFL (dB)	Fail Unc.	Comment	•
Freq. (MHz) 48 64.7	Pol (H/√) >>	Atten. (d8) 0	Reading (dBuV)	Factor (dB)	(dB) 1.7 2.3	Gain (dB)	Reading (dBuV) 20.5	(dBuV) 40.0	Dars. (dB) -19.5	Fail Unc. Pass	Comment	
Freq. (MHz) 48 64.7	Pol (H ^S) >>	Atten. (d8) 0 0	Reading (dBuV) 30.2 35.7 44.4	Factor (d8) 13.2 9.4 9.2	(dB)	Gain (dB) 24.6	Reading (dBuV)	imit (dBuV)	DIFL (dB)	Fail Unc.	Comment	
Freq. (MHz) 48 64.7 80 112.1	Pol (HS)	Atten. (d8) 0 0 0 0 0 0	Reading (dBuV) 30.2 35.7 44.4 43.4	Factor (d8) 13.2 9.4 9.2 10.9	(dB) 1.7 2.3	Gein (dB) 24,6 24,4	Reading (dBuV) 20.5 23.0	icali (dBuv) 40.0 40.0	Dark. (df8) -19.5 -17.0	Felt Unc. Pass Pass	Comment	•
Freq. (MHz) 48 64.7 80 112.1 128.1	Pol. (HS)	Atten. (d8) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reading (dBuV) 30.2 35.7 44.4 43.4 42.3	Factor (db) 13.2 9.4 9.2 10.9 11.4	(dB) 1.7 2.3 2.6 3.2 3.6	Gain (dB) 24,6 24,4 24,2	Reading (dBuV) 20.5 23.0 32.0	(dBuv) 40.0 40.0 40.0	ORC. (dB) -19.5 -17.0 -8.0	Fail Unc. Pass Pass Pass	Comment	
Freq. (MHz) 48 64.7 80 112.1 128.1 144.2	Pol (HS)	Atten. (d8) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reading (dfluv) 30.2 35.7 44.4 43.4 42.3 39.7	Factor (d8) 13.2 9.4 9.2 10.9 11.4 12.1	(dB) 1.7 2.3 2.6 3.2 3.6 3.6	Gein (dB) 24,6 24,4 24,2 24,3 24,4 24,3	Reading (dBuV) 20.5 23.0 32.0 33.2	(dBuv) 40.0 40.0 40.0 40.0	-19.5 -17.0 -8.0 -10.3	Pass Pass Pass Pass Pass	Comment	
Freq. (MHz) 48 84.7 80 112.1 128.1 144.2 160.2	Pol (HS)	Atten. (d8) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reading (dBuV) 30.2 35.7 44.4 42.3 39.7 39.6	Factor (cf8) 13.2 9.4 9.2 10.9 11.4 12.1 12.7	(dB) 1.7 2.3 2.6 3.2 3.6 3.6 3.6	Geh (dB) 24.6 24.4 24.2 24.3 24.4 24.3 24.0	Reading (dBuV) 20.5 23.0 32.0 33.2 32.9	(dBu/v) 40.0 40.0 40.0 43.5 43.5	DIR. (d8) -19.5 -17.0 -8.0 -10.3	Pass Pass Pass Pass Pass Pass	Comment	
Freq. (MHz) 48 64.7 80 112.1 128.1 144.2 160.2	Pol (HS)	Atten. (688) 0 0 0 0 0 0 0 0 0 0	Reading (dBuV) 30.2 35.7 44.4 42.3 39.7 39.6 42.4	Factor (d8) 13.2 9.4 9.2 10.9 11.4 12.1 12.7 14.6	(dB) 1.7 2.3 2.6 3.2 3.6 3.6 3.6 3.6 3.6	Gain (dB) 24.6 24.4 24.2 24.3 24.4 24.3 24.4 24.3	Reading (dBuV) 20.5 23.0 32.0 33.2 32.9 31.1	(dBu/) 40.0 40.0 40.0 40.0 43.5 43.5 43.5	ORC. (d8) -19.5 -17.0 -8.0 -10.3 -10.6	Fail Unc. Pass Pass Pass Pass Pass Pass	Comment	
Freq. (MHz) 48 64.7 80 112.1 128.1 144.2 160.2 195.1	Pol (HS)	Atten. (088) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reading (dBuV) 30.2 35.7 44.4 42.3 39.7 39.6 42.4 43.2	Factor (db) 13.2 9.4 9.2 10.9 11.4 12.1 12.7 14.6 14.6	(dB) 1.7 2.3 2.6 3.2 3.6 3.6 3.6 3.6 3.6	Gain (dB) 24.6 24.4 24.2 24.3 24.4 24.3 24.4 24.3 24.0 24.1	Reading (dBuV) 20.5 23.0 32.0 33.2 32.9 31.1 31.9 36.5 37.3	(dBu/) 40.0 40.0 40.0 43.5 43.5 43.5 43.5	DRL. (d8) -19.5 -17.0 -8.0 -10.3 -10.6 -12.4 -11.6	Fail Unc. Pass Pass Pass Pass Pass Pass Pass Pas	Comment	
Freq. (MHz) 48 64.7 80 112.1 128.1 144.2 160.2 195.1 227	Pol (HS) > > > > > > > > > > > > > > > > > > >	Atten. (085) 0 0 0 0 0 0 0 0 0 0 0 0	Reading (dBuV) 30.2 35.7 44.4 43.4 42.3 39.7 39.6 42.4 43.2 40.6	Factor (db) 13.2 9.4 9.2 10.9 71.4 12.1 12.7 14.6 14.6	(dB) 1.7 2.3 2.6 3.2 3.6 3.6 3.6 3.6 3.6 3.6 3.6	Gein (dB) 24.8 24.4 24.2 24.3 24.4 24.3 24.0 24.1 24.1	Reading (dBuV) 20.5 23.0 32.0 33.2 32.9 31.1 31.9 36.5 37.3 35.9	### (dBu//) 40.0 40.0 40.0 43.5 43.5 43.5 43.5 43.5 43.5	ORC. (d8) -19,5 -17.0 -8.0 -10.3 -10.8 -12.4 -11.6 -7.0	Fail Unc. Pass Pass Pass Pass Pass Pass Pass Pas	Comment	
Freq. (MHz) 48 64.7 80 112.1 128.1 144.2 160.2 195.1 227 234	Pol (HV) V V V V V V V V V V V V V V V V V V	Atten. (d8)	Reading (dbu/y) 30.2 35.7 44.4 43.4 42.3 39.7 39.6 42.4 43.2 40.6 40.1	Factor (cf8) 13.2 9.4 9.2 10.9 71.4 12.1 12.7 14.6 14.6 14.3	(dB) 1.7 2.3 2.6 3.2 3.6 3.6 3.6 3.6 3.6 5.2 5.2	Gein (etb) 24.6 24.4 24.2 24.3 24.4 24.3 24.4 24.3 24.1 24.1 24.1 24.2 24.2	Reading (dBuV) 20.5 23.0 32.0 33.2 32.9 31.1 31.9 36.5 37.3 35.9 35.4	(dBuv) 40.0 40.0 40.0 43.5 43.5 43.5 43.5 43.6 43.6 46.0	DRC. (dB) -19.5 -17.0 -8.0 -10.3 -10.6 -12.4 -11.6 -7.0 -6.2	Pass Pass Pass Pass Pass Pass Pass Pass	Comment	
Freq. (M*12) 48 64.7 80 112.1 128.1 144.2 160.2 192.2 195.1 227 234 236	Pol (H/S) > > > > > > > > > > > > > > > > > > >	Atten. (d8)	Reading (dBuV) 30.2 35.7 44.4 43.4 42.3 39.6 42.4 43.2 40.6 40.1 37.9	Factor (cf8) 13.2 9.4 9.2 10.9 71.4 12.1 12.1 14.6 14.6 14.3 14.3	(dB) 1.7 2.3 2.6 3.2 3.6 3.6 3.6 3.6 3.6 5.2 5.2 5.2	Gain (dB) 24.6 24.4 24.2 24.3 24.3 24.0 24.1 24.1 24.1 24.2 24.2	Reading (dBuV) 20.5 23.0 32.0 32.9 31.1 31.9 36.5 37.3 35.9 35.4 33.2	(dBuv) 40.0 40.0 40.0 43.5 43.5 43.5 43.5 43.5 46.0 46.0	DM. (ds) -19.5 -17.0 -8.0 -10.3 -10.6 -12.4 -11.6 -7.0 -6.2 -10.1 -10.5 -12.8	Pals Unc. Pass Pass Pass Pass Pass Pass Pass Pas	Comment	
Freq. (MHz) 48 64.7 80 112.1 128.1 144.2 160.2 195.1 227 234	Pol (HV) V V V V V V V V V V V V V V V V V V	Atten. (d8)	Reading (dbu/y) 30.2 35.7 44.4 43.4 42.3 39.7 39.6 42.4 43.2 40.6 40.1	Factor (cf8) 13.2 9.4 9.2 10.9 71.4 12.1 12.7 14.6 14.6 14.3	(dB) 1.7 2.3 2.6 3.2 3.6 3.6 3.6 3.6 3.6 5.2 5.2	Gein (etb) 24.6 24.4 24.2 24.3 24.4 24.3 24.4 24.3 24.1 24.1 24.1 24.2 24.2	Reading (dBuV) 20.5 23.0 32.0 33.2 32.9 31.1 31.9 36.5 37.3 35.9 35.4	(dBuv) 40.0 40.0 40.0 43.5 43.5 43.5 43.5 43.6 43.6 46.0	Dar. (d8) -19.5 -17.0 -8.0 -10.3 -10.8 -12.4 -11.6 -7.0 -6.2 -10.1 -10.8	Pass Pass Pass Pass Pass Pass Pass Pass	Comment	
Freq. (M+tz) 48 64.7 80 112.1 128.1 144.2 160.2 195.1 227 234 236 260 48	Pol (H/S) > > > > > > > > > > > > > > > > > > >	Alten. (688) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reading (dBuy) 30.2 35.7 44.4 43.4 42.3 39.7 39.6 42.4 43.2 40.6 40.1 37.9 37.9	Factor (cf8) 13.2 9.4 9.2 10.9 11.4 12.1 12.7 14.6 14.3 14.3 15.9	(dB) 1.7 2.3 2.6 3.2 3.6 3.6 3.6 3.6 3.6 5.2 5.2 5.2 5.2	Gain (dB) 24.6 24.4 24.2 24.3 24.3 24.0 24.1 24.1 24.1 24.2 24.2	Reading (dBuV) 20.5 23.0 32.0 32.9 31.1 31.9 36.5 37.3 35.9 35.4 33.2	(dBuv) 40.0 40.0 40.0 43.5 43.5 43.5 43.5 43.5 46.0 46.0	DM. (ds) -19.5 -17.0 -8.0 -10.3 -10.6 -12.4 -11.6 -7.0 -6.2 -10.1 -10.5 -12.8	Fall Unc. Pass Pass Pass Pass Pass Pass Pass Pas	Comment	
Freq. (M+tz) 48 64.7 80 112.1 128.1 144.2 160.2 192.2 195.1 227 234 236 260 48 64.7	Pol (社会)	Alten. (1983) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reading (dBuy) 30.2 35.7 44.4 43.4 42.3 39.7 39.6 42.4 43.2 40.6 40.1 37.9 37.8	Factor (d9) 13.2 9.4 9.2 10.9 11.4 12.1 12.7 14.6 14.3 14.3 15.9	(dB) 1.7 2.3 2.6 3.2 3.6 3.6 3.6 3.6 3.6 5.2 5.2 5.2	Gein (48) 24,8 24,8 24,2 24,3 24,4 24,3 24,1 24,1 24,1 24,2 24,2 24,2 24,2	Reeding (dBuV) 20.5 23.0 33.2 32.9 31.1 31.9 36.5 37.3 35.9 35.4 33.2 34.9	### ### ##############################	DML (dB) -19.5 -17.0 -8.0 -10.8 -12.4 -11.6 -7.0 -8.2 -10.1 -10.5 -12.8 -11.1	Pass Pass Pass Pass Pass Pass Pass Pass	Comment	
Freq. (M+tz) 48 64.7 80 112.1 128.1 144.2 160.2 195.1 227 234 236 260 48 64.7 68—	Pol (HSS) > > > > > > > > > > > > > > > > > >	Alten. (188) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reading (dBuV) 30.2 35.7 44.4 43.4 42.3 39.6 42.4 43.2 40.6 40.6 40.1 37.9 37.9 31.8	Factor (d0) 13.2 9.4 9.2 10.9 71.4 12.1 12.7 14.6 14.3 14.3 14.3 15.9 13.2 9.4 9.2	(dB) 1.7 2.3 2.6 3.2 3.6 3.6 3.6 5.2 5.2 5.3 1.7 2.3 2.6	Gein (48) 24.8 24.4 24.2 24.3 24.3 24.0 24.1 24.1 24.1 24.2 24.2 24.2 24.2 24.2	Reeding (dBuV) 20.5 23.0 32.0 32.0 33.2 31.1 31.9 36.5 37.3 35.9 35.4 33.2 34.9	(dBury) 40.0 40.0 40.0 43.5 43.5 43.5 43.5 43.5 43.5 43.5 43.5	Dar. (db) -19.5 -17.0 -8.0 -10.3 -10.6 -7.0 -8.2 -10.1 -10.8 -12.4 -11.6 -7.0 -10.5 -12.8 -11.1	Pals Unc. Pass Pass Pass Pass Pass Pass Pass Pas	Comment	
Freq. (M-tz) 48 64.7 80 112.1 128.1 144.2 160.2 195.1 7227 234 236 260 48 64.7 69-112.1	Pol (HS)	Alten. (1987) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reading (dBuV) 30.2 35.7 44.4 43.4 42.4 43.4 42.4 40.6 40.1 37.9 37.9 37.9 37.9 37.9 37.9 37.9 37.9	Factor (db) 13.2 9.4 9.2 10.9 71.4 12.1 12.7 14.6 14.3 14.3 15.8 13.2 9.4 9.2 10.9	(dB) 1.7 2.3 2.6 3.2 3.6 3.6 3.6 3.6 3.6 5.2 5.2 5.3	Gein (48) 24.8 24.4 24.2 24.3 24.4 24.3 24.0 24.1 24.1 24.1 24.2 24.2 24.2 24.2	Reeding (dBuV) 20.5 23.0 32.0 32.0 33.2 32.9 31.1 31.9 36.5 37.3 35.9 35.4 33.2 34.9	(dBuv) 40.0 40.0 40.0 40.0 43.5 43.5 43.5 43.5 43.5 43.5 43.5 46.0 46.0 46.0	Dirt. (dB) -19.5 -17.0 -8.0 -10.3 -10.8 -12.4 -11.6 -7.0 -6.2 -10.1 -10.5 -12.8 -11.1 -20.0 -20.9 -15.4	Pals Unc. Pass Pass Pass Pass Pass Pass Pass Pass	Comment	
Freq. (MHz) 48 64.7 64.2 195.1 227 234 236 64.7 68-112.1 130	P を E S > > > > > > > > > > > > > > > > > >	Alten. (1887) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reading (dBuV) 30.2 35.7 44.4 43.4 42.3 39.6 42.4 43.2 40.1 37.9 37.9 37.9 37.9 37.9 37.9 37.9 44.6	Factor (d8) 13.2 9.4 9.2 10.9 71.4 12.1 12.7 14.6 14.5 14.3 14.3 15.9 13.2 9.4 9.2	(dB) 1.7 2.3 2.6 3.2 3.6 3.6 3.6 5.2 5.2 5.3 1.7 2.3 2.6	Gen (48) 24.4 24.2 24.3 24.4 24.3 24.0 24.1 24.1 24.2 24.2 24.2 24.2 24.2 24.2	Reading (#8uV) 20.5 23.0 32.0 32.0 32.2 31.1 31.9 36.5 37.3 35.9 35.4 33.2 20.0 19.1	(dBuv) 40.0 40.0 40.0 43.5 43.5 43.5 43.5 43.5 43.5 43.5 43.5	Dirt. (dB) -19.5 -17.0 -8.0 -10.3 -10.8 -12.4 -11.6 -7.0 -6.2 -10.1 -10.5 -12.8 -11.1 -20.0 -20.9 -15.4	Pals Unc. Pass Pass Pass Pass Pass Pass Pass Pas	Сопителя	
Freq. (MF1z) 48 64.7 66-12.1 130 60.1	P	Atten. (1987) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reading (####################################	Factor (d9) 13.2 9.4 9.2 10.9 71.4 12.7 14.6 14.3 14.3 15.9 13.2 9.4 9.2 10.9 11.4 12.7	(dB) 1.7 2.3 2.6 3.2 3.6 3.6 3.6 3.6 5.2 5.2 5.2 5.2 5.2 5.2 5.3 1.7 2.3 2.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3	Geh (eff) 24,6 24,4 24,2 24,3 24,4 24,3 24,1 24,1 24,1 24,2 24,2 24,2 24,2 24,2	Reading (### / ### /### / ### /### /### /### /### /### /### /### /### /### /### /### /### /### /### /### /### /### /#### /#### /#### /#### /#### /### /#### /#### /#### /#### /#### /##### /#### /#### /######	(dBu/y) 40.0 40.0 40.0 43.5 43.5 43.5 43.5 43.5 46.0 46.0 46.0 46.0 40.0 40.0	DIR. (dfs) -19.5 -17.0 -8.0 -10.3 -10.8 -12.4 -11.6 -7.0 -6.2 -10.1 -10.8 -11.1 -20.0 -20.9 -15.4 -15.0	Pals Unc. Pass Pass Pass Pass Pass Pass Pass Pass	Comment	
Freq. (Metz) 48 64.7 80 112.1 128.1 144.2 160.2 195.1 227 234 236 260 48 64.7 68—12.1 130	P を E S > > > > > > > > > > > > > > > > > >	Alten. (1887) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Reading (dBuV) 30.2 35.7 44.4 43.4 42.3 39.6 42.4 43.2 40.1 37.9 37.9 37.9 37.9 37.9 37.9 37.9 44.6	Factor (d8) 13.2 9.4 9.2 10.9 71.4 12.1 12.7 14.6 14.5 14.3 14.3 15.9 13.2 9.4 9.2	(dB) 1.7 2.3 2.6 3.2 3.6 3.6 3.6 5.2 5.2 5.3 1.7 2.3 2.6 3.2 5.2 5.3 5.3 6.5 5.2 5.3 5.3 6.5 5.2 5.3 5.3 6.5 5.2 5.3 5.3 6.5 5.2 5.3 5.3 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	Gen (etc.) 24.8 24.4 24.2 24.3 24.4 24.3 24.1 24.1 24.1 24.2 24.2 24.2 24.2 24.2	Reading (### / ### /### /### / ### /### /### /### /### /### /### /### /### /### /### /### /### /### /### /### /### /#### /#### /#### /#### /#### /### /#### /#### /#### /#### /#### /##### /#### /#### /##### /######	(dBu/r) 40.0 40.0 40.0 43.5 43.5 43.5 43.5 43.5 46.0 46.0 46.0 40.0 40.0 40.0 43.5 43.5	Offi. (48) -19.5 -17.0 -8.0 -10.3 -10.8 -12.4 -11.6 -7.0 -8.2 -10.1 -10.8 -12.8 -11.1 -20.0 -20.9 -15.4 -7.9	Fall Unc. Pass Pass Pass Pass Pass Pass Pass Pas	Comment	

Page 17 of 27

4.245

Page No. M-19 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Test Data - Radiated Emissions, Electric Field, Test# REHE-02 -Cont.

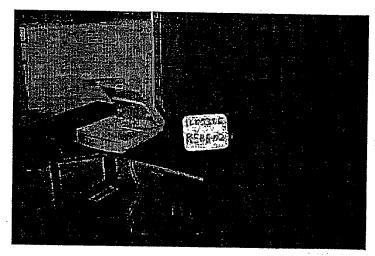
								1-L-41 -4	1 05207		T
Complete		<u>x</u>						700 # :	Dece.	-	Test #: REHE-0
relimina	iry								Laga.		. 01
Hent Na	ıme :	Global Ele	ction Sv	stems							
UT Na		AccuVote									
UT Mo	dei#:	R6									
UT Par	t#:	FB-GS000	1-000A								
UT Ser	at#:	100003									
UT Co	ılig. :	Election M	iode - In	sert Voter	Card Sc	reen					
pecifica	itlon :	CFR47 P	art 15. S	ubpart B.	Class B			Refer	ence:		
Meas,	Ant.	Det.	Meter	Antenna	Path Loss	RF Gein	Corrected Reeding	Spec.	CRUSL	Pass Fall	
Freq. (MHz)	Pol. (H/V)	Atten. (dB)	Reading (dBuV)	Factor (dB)	(dB)	(693)	(dBuV)	(dBuV)	(dB)		Comment
(MMz) 195.1	(H/V) H	(dB)	45	4.6	3.6	24.1	39.1	43.5	44		REFER TO OP
195.1	규	8	44.5	14.6	3.6	24.1	38.6	43.5	-4.9		QP#1544
227.5	н	0	38.3	14.3	5.2	24.2	33.6	46.0	, -12.4	Pass	
260	H	0	42.1	15.9	5.3	24.2	39.1	46.0	-6.9	Pass	
		 		 ```	V.5		-				
		 					1				
325.2	V.	0	37.4	16.8	6.1	24.2	36.1	46.0	-8.9		REFER TO OP
325.2	V	0	36	16.8	6.1	24.2	34.7	46.0	-11.3	Pass	QP#1544
353.2	V	Ö	38.5	15.4	6.1	24.2	35.8	45.0	-10.2	Pass	
390.1	V	0	42.8	14.4	6.1	24,2	39.1	45.0	-6.9	Pass	
455	V	0	36	16	7.1	24.2	34.9	46.0	-11.1	Pass	
650	V	0	36.1	18.6	9.4	24.2	39.9	46.0	-6.1	Pass	
715			31_	20.8	10.0	24.2	37.6	46.0	-8.4	Pass	
						· ·					ļ
325	Н	0	36.4	16.8	6.1	24.2	35,1	46.0	-10.9	Pass	
390.3	Н	0	33.3	14.4	<u> 18.1 · </u>	24.2	29.6	46.0	-16.4	Pass	
650	H	0	36.8	18.6	9.4	24,2	40.6	48.0	-5.4	Pass	
			 			ļ	+	├	ļ		SCANNED FROM
<u>_</u>		 		├ ──┤		 	+		 	├─	30MHz TO 1GHz
	 	 	 	 		 	+	 	 		1
	 	+	 	 			+	 	 	1	
	\vdash	 	 	 		 	 	—			
	 	+	 	11		 	+	 	1		
	 	+	 	 		 	†	T	T	T	
	 	 	 	1 1		1	1	1	T		
	 	 	 	1		1	T				
	 	 	1	1							
		+	1	1		1	7	1			
			1			T	T	T			
		-	+					1	1	1 —	

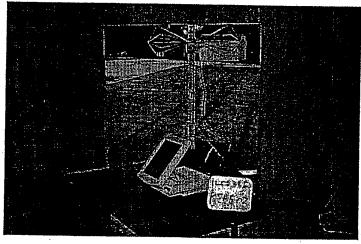
Page 18 of 27

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Test Photographs - Test # REHE-02





Page 19 of 27

Page No. M-21 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Section 6. Microwave Radiated Emissions

Purpose:

The tests are intended to demonstrate the compliance of the Equipment Under Test (E.U.T.) to the limits for radiated emissions as defined by CFR 47, Part 15, Subpart B, Class B, Paragraph Number 15.109.

Specification Limits:

Limits for radiated disturbance.

Frequency(MHz)	Maximum Fleid Strength at 3m and 10m								
	3m (μV/m)	3m (dBµV/m)	.10m (μV/m)	10m (dBμV/m)					
30 - 88	100	40	31.6	30					
88 - 216	150	43.5	47.3	33.5					
216 - 960	200	46	63.1	36					
Above 960	500	54	158.5	44					

Method of Measurement (Procedure ANSI C63.4-1992):

The equipment was prescanned in a shielded room using a spectrum analyzer and broadband antenna. A list of frequencies was compiled for investigation in the open field. The equipment was then moved to an open area test site where amplitude measurements were made at a distance of 10 meters. The bandwidth was set to 100 kHz and the detector function was CISPR Quasi-Peak. Any emission within 6 dB of the specification limit is re-measured using a reference tuned dipole antenna per ANSI C63.4.

Any emissions above 1 GHz were measured with a horn antenna and low noise preamplifier at a distance of 3 meters.

See Sections 7 and 8

Page 20 of 27

Page No. M-22 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Test #:

REWE-01

Tested By:

J. FISH

Date of Tests:

9/27/01

Test Conditions:

Test Voltage:

115

Temperature:

26°C

Humidity:

38%

Test Results:

The E.U.T. complies.

The worst case emission is 45.3 dB μ V at 1.3 GHz in the Vertical polarity. This is -8.7 dB below the specification limit of 54dB μ V/m

TEST EQUIPMENT

Asset Number	Description	Manufacturer	Model Number	Serial Number	Last Cal	Cal Due
1310	Antenna horn	Electro Metrics	RGA-60	6174	7/30/01	7/31/03
1278	SPECTRUM ANALYZER	HEWLETT PACKARD	8566B	2618A02843	10/5/00	10/5/01
1041	CABLE, 3m	KTL	Semi-Flex	N/A	11/4/00	11/4/01
1067	Blue cable 4m	. Storm	PR90-010-144	0	6/6/01	6/6/02
1529	CABLE 4M 2.0- 18.0 Ghz	Storm	PR90-010-144	00-07-002	6/6/01	6/6/02
·1615	Pre-Amp	KTL (MITEQ)	AFS501001800 3510P5	CHINDAI	2/6/01	2/6/02

Page No. M-23 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

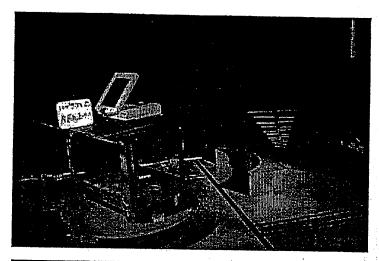
Test Data - Microwave Radiated Emissions, Test# REWE-01

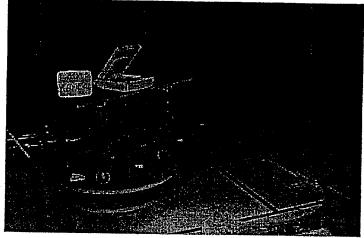
Comple	the .	X									
relimi			-					JOD #	: 1L053	1	Test#: REWE
	•		-						Lage	<u>'</u> '-	_ · u 1
	lame :	Global Ei		ystems							
UTN	ame ; odel # :	AccuVate	<u> </u>								
UT Pa		R6	04 000								
	riol#:	FB-GS0001-000A 100003									
	onfig. :		dode - k	neart Va	ter Card Sc		·····				
			11000 - 1	IDOIL YO	ter Card Sc	16011					<u>-</u>
pecific	stion :	CFR47 P	art 15. 5	ubnart l	3, Class B		****	Data	rence :		
ntenn	#:	1310			(deg. C):	26	•	~~		Data	9/27/01
etecto		1278	•		ly (%):	38	•			Time:	
able 1		1041	•		oltage :	115	•				J. FISH
Cable 2 # : Cable 3 # :		1067			requency:	60	٠.		P		1L0538E REWE-
		1529		Phase:		1	•	P	eak Bar		
reamp		1615		Locatio	***	SAC			Avg. Ber		
reamp				Distanc	28:	3m	,	٧	Ideo Ba	ndwidth	1MHz
reamp	3#:										
Moss.	Meter	Antenne	Path	RF	Conversion	Corrected		T		-	,
Freq.	Reading	Factor	Long	Guin	Factor	Reading	Spec.	CR/SL DML	Peta	Pol	
GHz)	(dBm)	(dB)	(dB)	(dB)	(dBuV/m)	(4844)	(dBuV)	(eB)	Unc	Ι.	Comment
1.04	-69.7	24.6	3,3	26.0	107.0	37.2	54.0	-16.8	Pass	V	CONTINUE
1.3	-62.3	24.6	3.3	27.3	107.0	45.3	54.0	-8.7	Pass	Ť	
.625	-69.5	25.3	3.3	27,5	107.0	38.3	54.0	-15.7	Pess	V	
			ľ	1							
								1	L		1
	-70.1	24,6	3,3	28.0	107.0	36.B	54.0	-17.2	Pass	Н	<u> </u>
1.3	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	
1.3											
1.3	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	
1.3	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	
1.3	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	SCANNED FROM 1GHz TO 5GHz
1.3	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	
1.3	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	
1.3	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	
1.3	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	
1.3	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	
1.3	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	
1.3	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	
1.3	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	
1.3	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	
1.3	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	
1.04	-62.5	24.6	3.3	27.3	107.0	45.1	54.0	-8.9	Pass	H	

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accurote, Model R6

Test Photographs - Test # REWE-01





Page 23 of 27

Page No. M-25 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Section 7. Sample Calculations

Conducted Emissions:

If the Quasi-Peak to Average ratio is greater than 6 dB, then the emission is classified as broadband and its Quasi-Peak level is reduced by 13 dB for comparison to the limit.

i.e. Quasi-Peak level = 40 dBμV
Average level = 34 dBμV
Corrected level = 40 - 13 = 27 dBμV

Radiated Emissions:

Emissions are measured at a distance of 10 meters and corrected for antenna factor and cable loss.

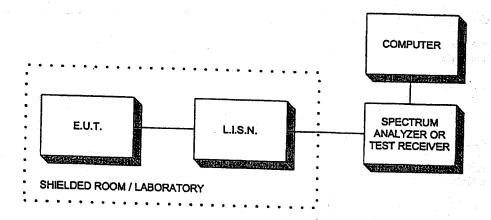
i.e. Received Signal = 25 dBμV @ 100 MHz
 Antenna Factor & Cable Loss = 9.8 dB
 Field Intensity = 25 + 9.8 = 34.8 dBμV/m @ 10 m

Nemko Dallas, Inc.

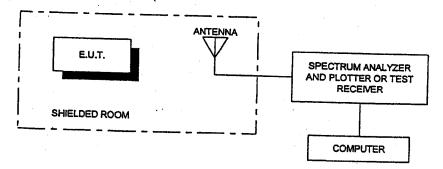
CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accurote, Model R6

Section 8. Block Diagrams

Conducted Emissions:



Radiated Prescan:



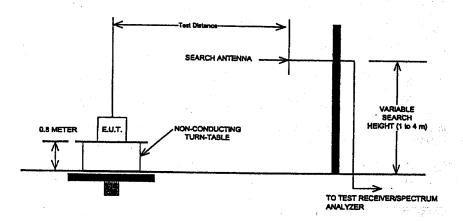
Page 25 of 27

Page No. M-27 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Outdoor Test Site for Radiated Emissions:



Page No. M-28 Test Report No. 46058-01

Nemko Dallas, Inc.

CFR 47, PART 15, SUBPART B, CLASS B VERIFICATION REPORT NO.: 1L0538EUS1 EQUIPMENT: Accuvote, Model R6

Section 9. Labeling Requirements

Your product has successfully complied with 47 CFR FCC Part 15.8 Class 8 requirements. FCC Class B Label:



In addition to placing the above label on your product, the three items required to be included in your product's manual are:

(1) For a Class B Verified device, the instructions furnished to the user shall include the following or similar statement, placed in a prominent location at the front of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- (2) The user's manual must caution the user that changes or modifications not expressly approved by the party responsible for compliance (you/your company) could void the user's authority to operate the equipment.
- (3) In addition, the instruction manual must include appropriate instructions on the <u>first page</u> of the manual concerning installation of the device or special accessories (special cabling, shields, adapters) that must be used with the device. An appropriate caution statement should warn the user to utilize the special accessories supplied with the equipment for continued FCC compliance.

Please do not hesitate to contact us for future testing or consultation services. Thank you for choosing Nemko Dallas, Inc.

Page 27 of 27

Page No. N-1 Test Report No. 46058-01

ATTACHMENT N INSTRUMENTATION EQUIPMENT SHEETS

Page No. N-2 Test Report No. 46058-01

This page intentionally left blank.

WYLE LABORATORIES
Huntsville Facility

Page No. N-3 Test Report No. 46058-01



INSTRUMENTATION EQUIPMENT SHEET

DATE: 6/28/01 TECHNICIAN: TLANG		JOB NUMBER: 46058 CUSTOMER: GLOBAL		•	 -		CH 54 P HUM	· · · · · · · · · · · · · · · · · · ·	
NO.	INSTRUMENT	MANUFACTURER	MODEL #	SERIAL #	WYLE #	RANGE	ACCURACY	CAL DATE	CAL DUE
1 2 3	TEMP RECORDER PROGRAMMER TEMP CONTROLL	HONEYWELL THERMOTRON E THERMOTRON	DR4500 4800 12005	9633Y6266 977800 236944TP	114030 112887 102806	-200-600°F -125 - 375°F -125-375°F	.4°F .25% .25%	5/11/01 2/28/01 2/28/01	8/ 9/01 8/27/01 8/27/01

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 Troy Tong 6-28-01 CHECKED & RECEIVED BY JOHN 6-28-0



INSTRUMENTATION EQUIPMENT SHEET

DATE: TECHNICIAN: 7/12/01 T.LANG JOB NUMBER:

46058 GLOBAL

TEST AREA:

ENV CH 7

TYPE TEST: HIGH / LOW TEMP

CUSTOMER: NO. INSTRUMENT MANUFACTURER MODEL # SERIAL # WYLE # RANGE ACCURACY CAL DATE CAL DUE TEMP RECORDER HONEYWELL DR4500 9628Y6262947 112722 -200-600°F .4°F 6/12/01 9/10/01 2 MICROCOMPUTER THERMOTRON 3038 7626-TP 114130 -125 - 375°F .25% 3/16/01 3 TEMP ALARM 9/12/01 THERMOTRON 012005 092490 -125 to 375°F .25% 3/16/01 9/12/01

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.

7-12-01 CHECKED & RECEIVED BY

Burdo

10.61.

Page No. N-5 Test Report No. 46058-01



INSTRUMENTATION EQUIPMENT SHEET

TEC	•	8/ 6/01 J.LAXSON	CUSTO		ı		AREA: ENV	CYCLE	1.5
NO.	INSTRUMENT	MANUFACTURER	MODEL #	SERIAL #	WYLE #	RANGE	ACCURACY	CAL DATE	CAL DUE
-1 2 3 4	TEMP ALARM CONTROLLER TEMP RECORD		012005 6800 DR4500 70	263002 783382 9530Y5220933 54450337	003043 115947 112494 109680	-125 to 375°F -148 to 437°F -200-600°F MULTI	.25% ±.25% .4*F MFG	8/ 3/01 8/ 3/01 6/14/01 12/ 4/00	1/30/02 8/ 2/02 9/12/01 12/ 4/01

This is to certify that the above instruments were calibrated using state-of-the-art techniques with standards whose calibration is

INSTRUMENTATION

CHECKED & RECEIVED BY

Q.A. B. Maron

11.14.9

WH-1829A, REV, APR 79



INSTRUMENTATION EQUIPMENT SHEET

DATE: 7/17/01 TECHNICIAN: D.MEDLE					46058 GLOBAL			LAB ATION	1	
NO.	INSTRUMENT	MANUFACTURER	MODEL #	SERIAL	WYLE #	RANGE	ACCURACY	CAL DATE	CAL DUE	
1 2 3 4 5 6 7	ACCEL HARD COPY UN VIB CONTROL TERMINAL OSCOPE COND SIGNAL OSCOPE DMM	BRUEL & KJAER IT TEKTRONIX HP TEKTRONIX TEKTRONIX ENDEVCO TEKTRONIX KEITHLEY	4366 4631 5427A366 4612 2213 2775 2213A 179A	1104902 B187407 2120A00 N/A N/A AL43 B013724 196804	7 113330 0409 100291 100389 101036 102281	2KGSV/5KGSK MULTI MULTI MULTI 60MHZ GAIN 60MHZ MULTI	5% MFG MFG MFG 4% 1.55 3% MFG	5/10/01 3/23/01 11/22/00 1/16/01 4/10/01 2/14/01 4/10/01 9/28/00	8/ 8/01 9/19/01 11/22/01 1/16/02 10/ 5/01 8/13/01 10/ 5/01 9/28/01	

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 7.17.6,
	ON BMOND 7.17.01

Page No. N-7 Test Report No. 46058-01



INSTRUMENTATION EQUIPMENT SHEET

DATE: TECHNICIAN:

10/22/01 T.BATES JOB NUMBER: CUSTOMER:

46058 GLOBAL TEST AREA:

PACK TECH

TYPE TEST:

DROP

NO. INSTRUMENT SCALE

MANUFACTURER

OHAUS

MODEL # CDII

SERIAL # 00082316GA

WYLE # 116051

RANGE 0-50LBS ACCURACY +/-.01 LBS

3/14/01

CAL DATE CAL DUE

3/14/02

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.

Page No. N-8 Test Report No. 46058-01



INSTRUMENTATION EQUIPMENT SHEET

DATE: TECHNICIAN:

10/17/01

VWR

JOB NUMBER: CUSTOMER:

45964 GLOBAL

TEST AREA: ENV LAB TYPE TEST:

DRIP

NO. INSTRUMENT

STOP WATCH

MANUFACTURER

MODEL # 62379218

SERIAL # 97296739

WYLE # 114301

.SSEC

RANGE

10HR

ACCURACY CAL DATE CAL DUE

8/14/01

2/8/02

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.

Bronds

Page No. N-9 Test Report No. 46058-01



INSTRUMENTATION EQUIPMENT SHEET

DAT		0/16/01 MC DERMOTT	JOB NU CUSTO				AREA: TEST:	SITE (-	1
NO.	INSTRUMENT	MANUFACTURER	MODEL #	SERIAL #	WYLE #	RANGE	ACCUF			
1 2 3 4 5	TEMP RECORDS CONTR DUST HUM XMITTER TEMP CONTROL TEMP ALARM	PHOTOMATION HYCAL	DRASOT DSMIPB CT-829AR 61011 61034	920284912600 246438 112055 N/A 31524-01-59	109510 101480 112055 000719	-200-600°F 5G/CU FT 0-10 20-80%RH -175°-375°F -175-375°F	.4°F	ACT	8/ 9/01 5/ 1/01 7/17/01 10/15/01	11/7/01 5/1/02 1/11/02 4/12/02

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.

Q.A. Brondo Word

10/01/01

Page No. N-10 Test Report No. 46058-01

This page intentionally left blank.