

NTS – Huntsville Operations 7800 Highway 20 West Huntsville, Alabama 35806 Phone (256) 837-4411 • Fax (256) 830-2109 www.nts.com

TEST DATA PACKAGE

FOR

ENVIRONMENTAL AND DYNAMIC TESTING OF VOTING MACHINES

PRO V & V 700 Boulevard South Huntsville, AL 35802

September 15, 2017

NTS JOB NO. PR066450 PURCHASE ORDER NO. 2017-008

HA: 091517

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PHOTOGRAPHS



Photograph 1 ICX Tablet



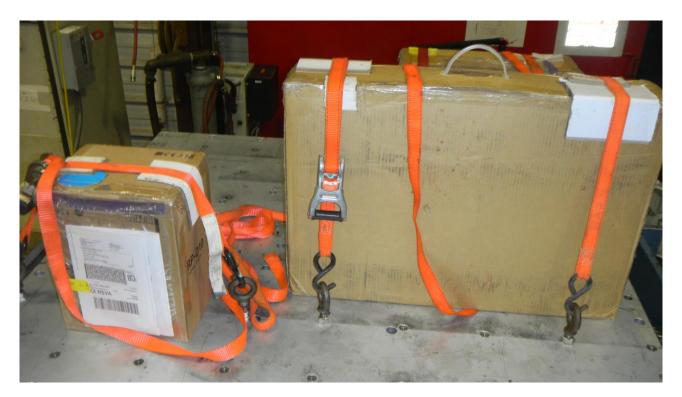
Photograph 2 VVPAT



Photograph 3 Thermal Printer



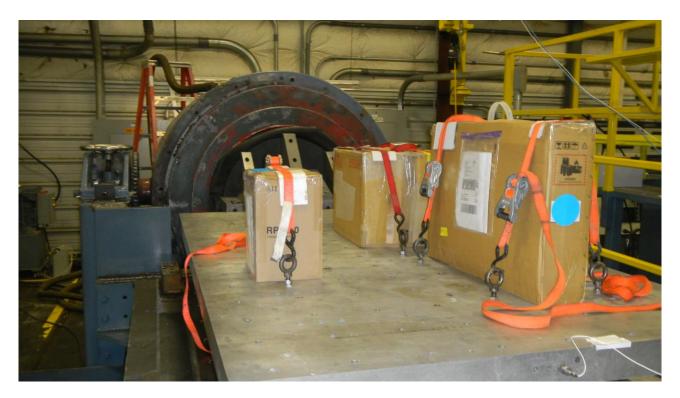
Photograph 4 Humidity and Temperature Test Setup



Photograph 5 Vibration – Vertical Axis



Photograph 6 Vibration – Transverse Axis



Photograph 7 Vibration – Longitudinal Axis



Photograph 8 Thermal Printer Bench Handling Test



Photograph 9 VVPAT Bench Handling Test



Photograph 10 ICX Tablet Bench Handling Test



Photograph 11 Temperature Power Variation Test Setup

NON-OPERATIONAL HUMIDITY TEST DATA



Datasheet

Project No.	PR066450			Laboratory Ambient Conditions						
Customer				mperature	72°F	Humidity_	47%	Pressu	re <u>30.01</u> '	
Procedure	MIL-STD-810D			Specimen Voting Machine						
Method	507.2 Pro	cedure I		Part No. See Below Start Date 07/31/20					07/31/2017	
Paragraph	N/A			Serial No. See Below End Date 08/14/2						
Test Title	e Non-Op Humidity Sheet 1 of							of		
Date	Time	Temperature (°F)	Relative Humidity (%)		Comments					
07/31	1046	71	47	Start cha	mber, ram	p to 73°F 50°	% RH			
08/01	0801	94	80	Change	Change Chart					
08/02	0823	92	82	Change	Change Chart					
08/03	0759	94	80	Change	Change Chart					
08/04	0808	92	82	Change Chart						
08/05	0800	92	82		Change Chart					
08/05	1200	88	88	5 th cycle complete. Place Chamber on Hold						
08/06	0812	88	88	Change	Change Chart. Chamber Holding					
08/07	0813	88	88	Change	Change Chart.					
08/08	0800	91	84	Change	Change Chart.					
08/09	0807	90	84	Change Chart.						
08/10	0800	91	83	Change	Change Chart.					
	0830	88	88	Power cycle temp controller. Cycle resumed without issue						
08/11	0757	88	88	0	Change Chart.					
08/12	0808	88	88	Change Chart. 10 th Cycle complete. Place Chamber on Hold						
08/13	0759	88	88	Change Chart.						
08/14	0801	88	88	Change Chart.						
	1018	88	87	Ramp to Ambient						
	1022	74	65	Chambe	r power off	. Test compl	ete.			
Item	Item Number Quantity Tes		antity Tested	Serial Number Description			tion			
1		1		1707101552			ICX Tablet			
2 1			1	715 VVPAT						
3 1			1		11152	71A		Print	er	

 Tested By
 Dorald African
 Date
 15 Aug 2017

 Approved
 Image: Technician
 Date
 16 Aug 2017

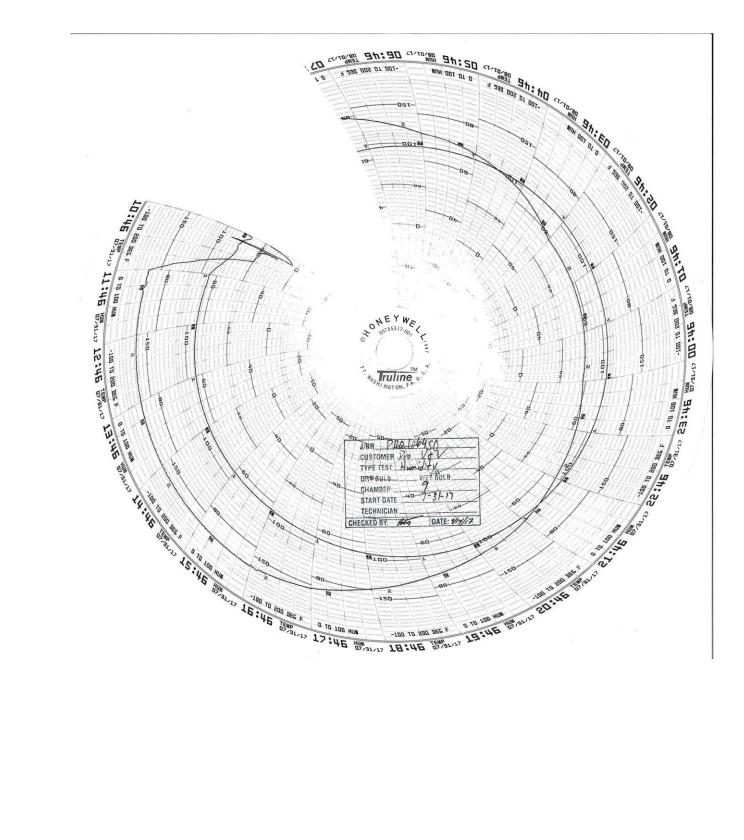
 Project Engineer
 Date
 16 Aug 2017

Notice of Deviation

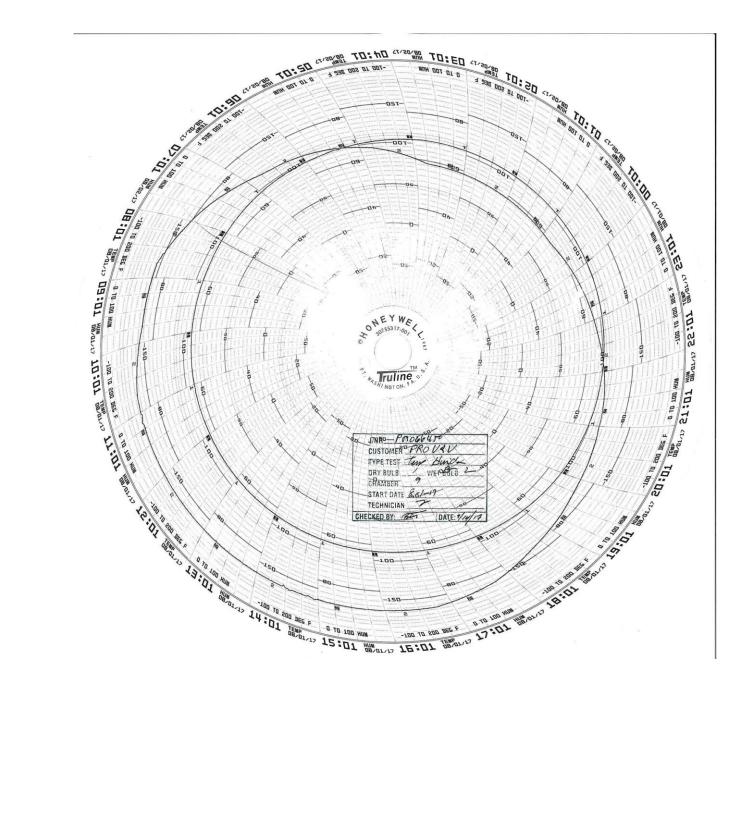
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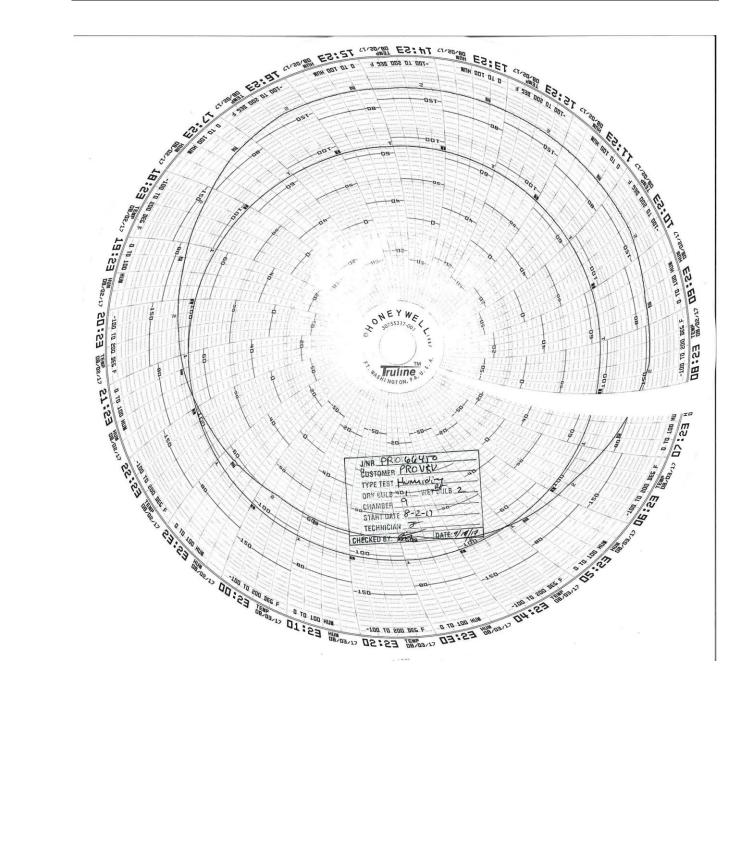
NTSH-0614, Rev. DEC '15

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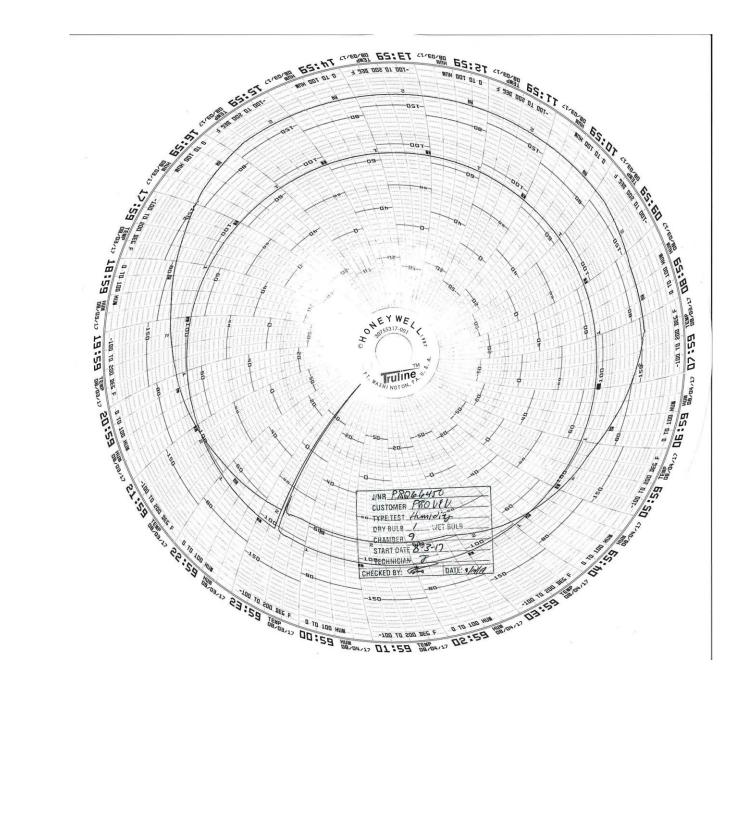


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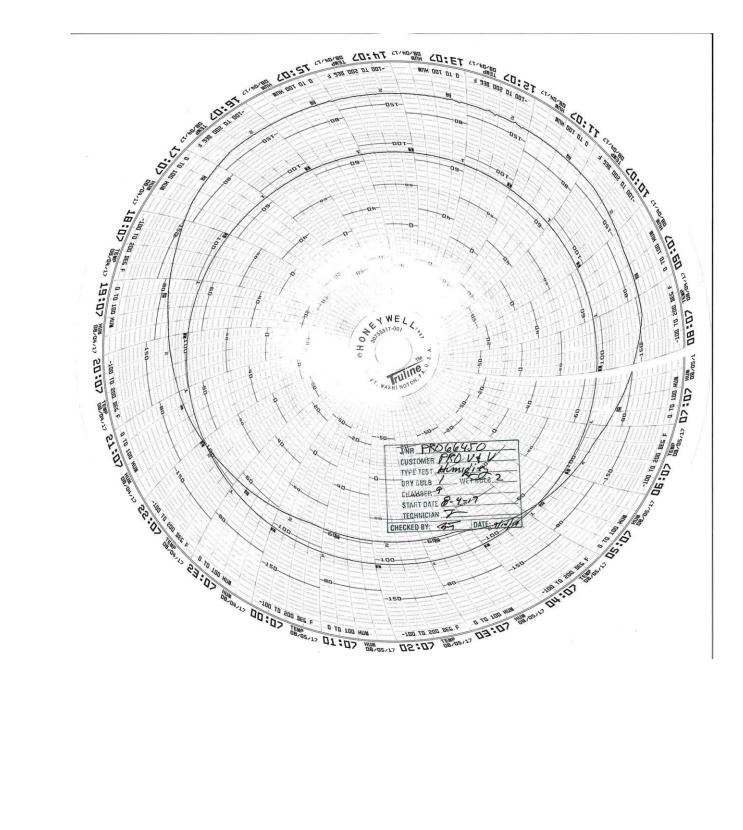




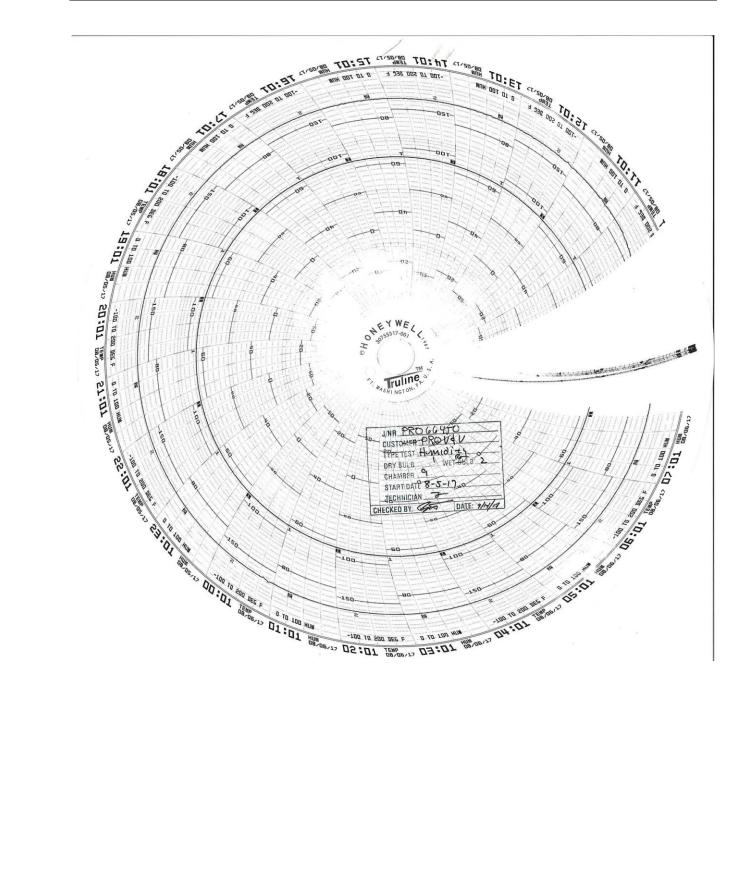
Page No. 20 of 59 NTS Job No. PR066450-01

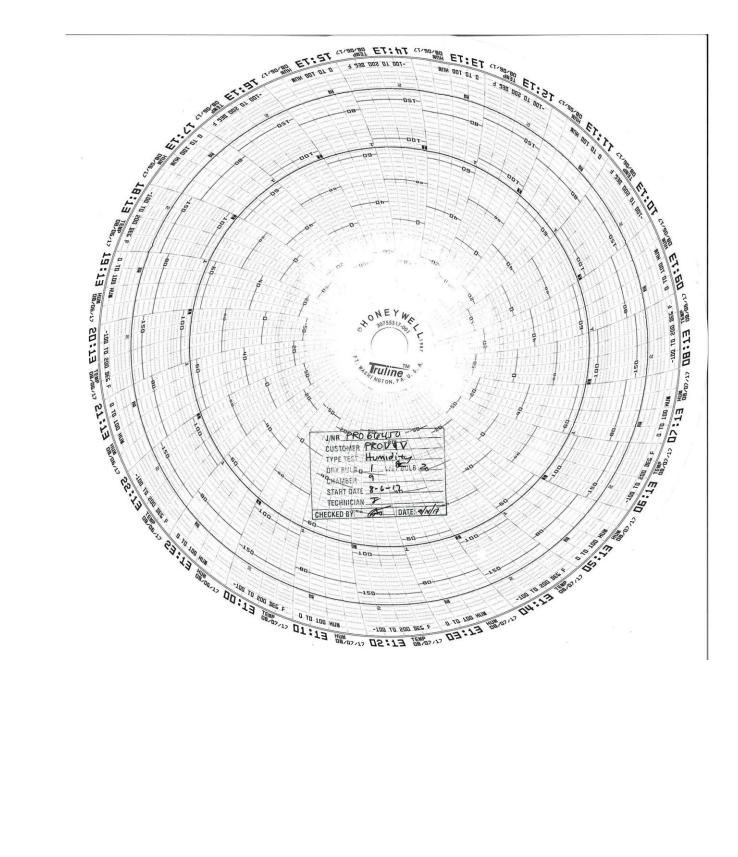


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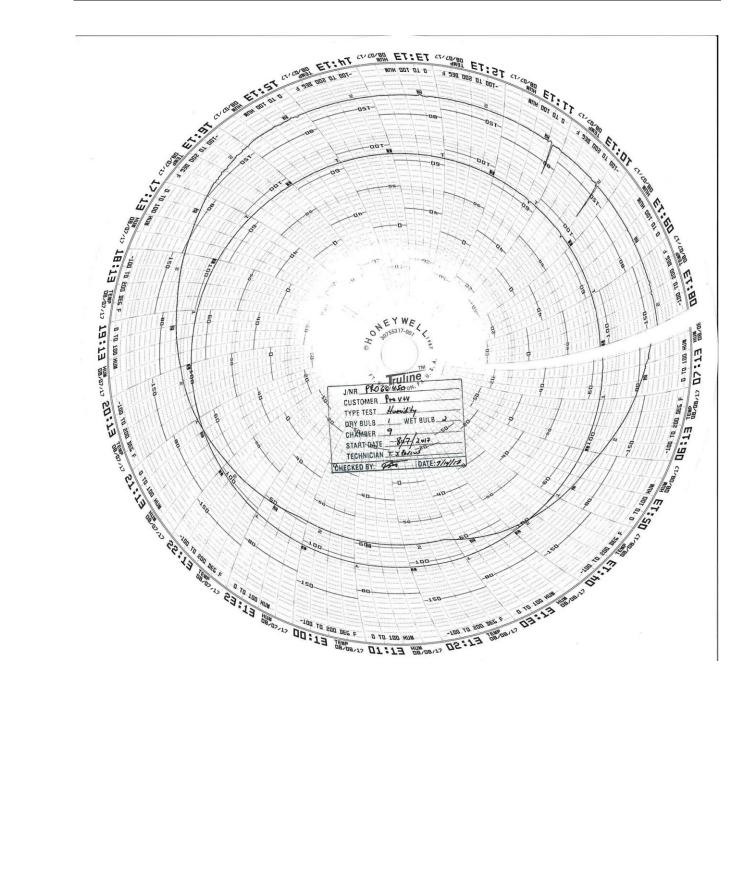


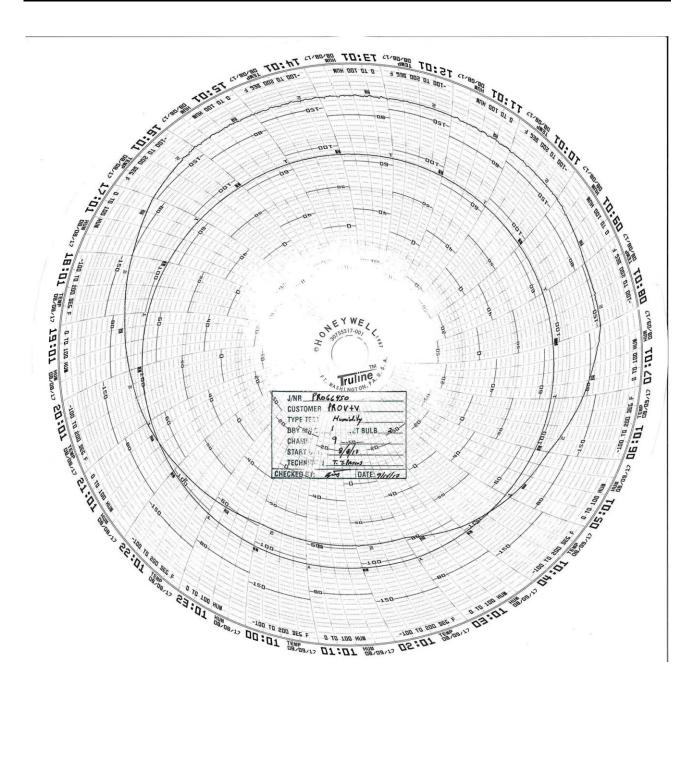
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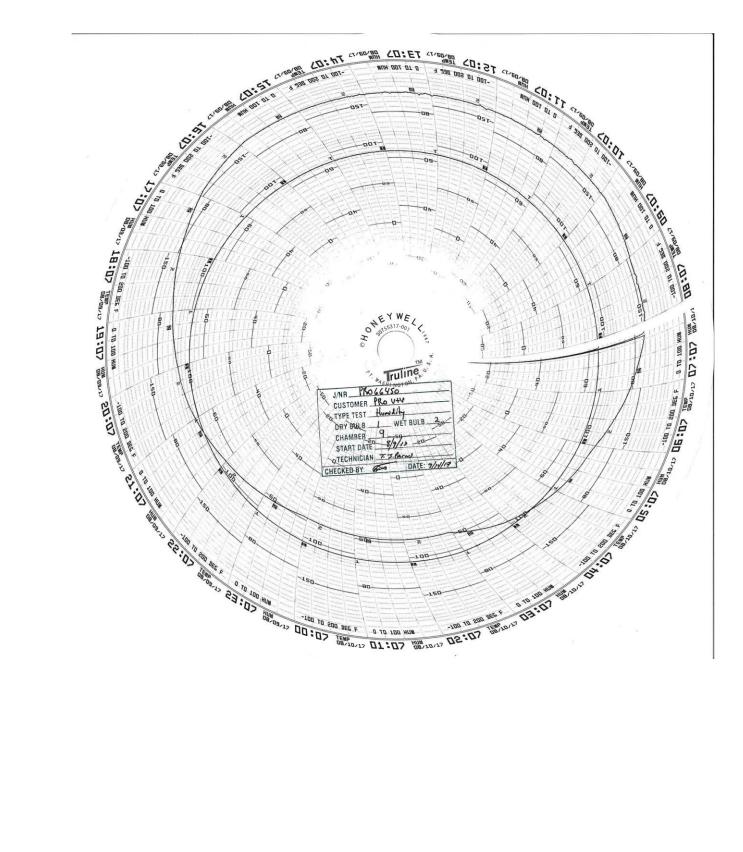


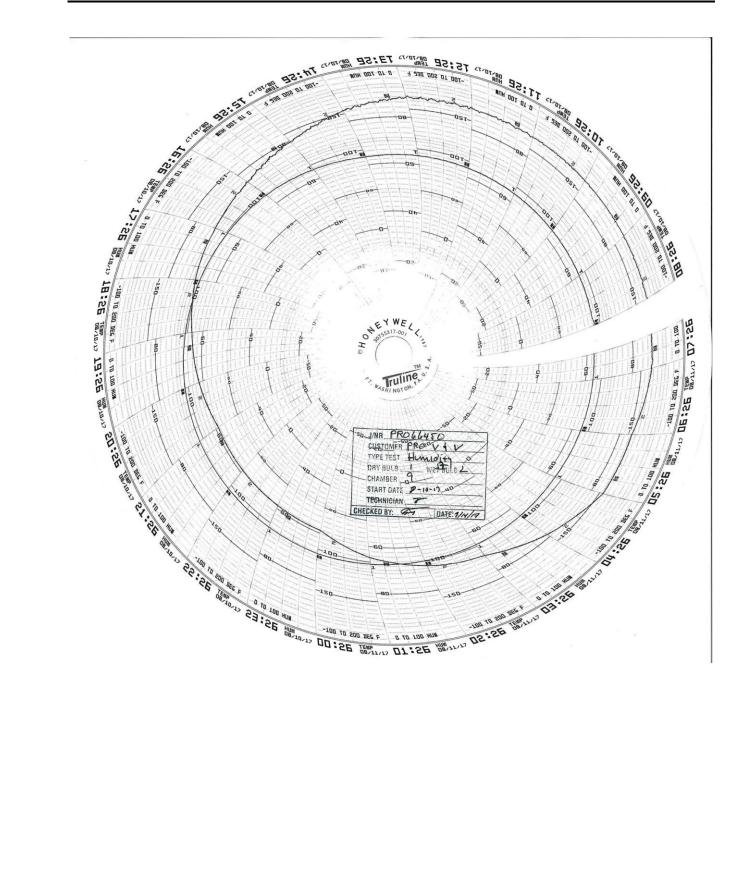
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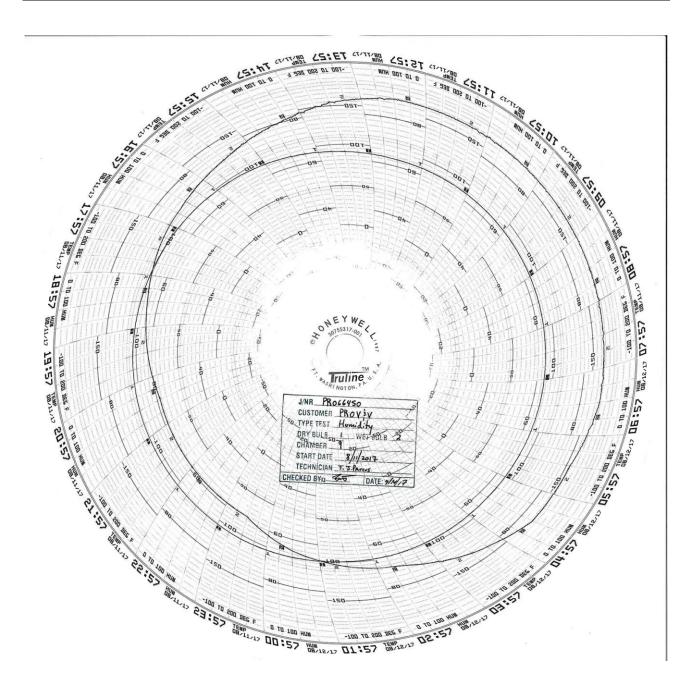




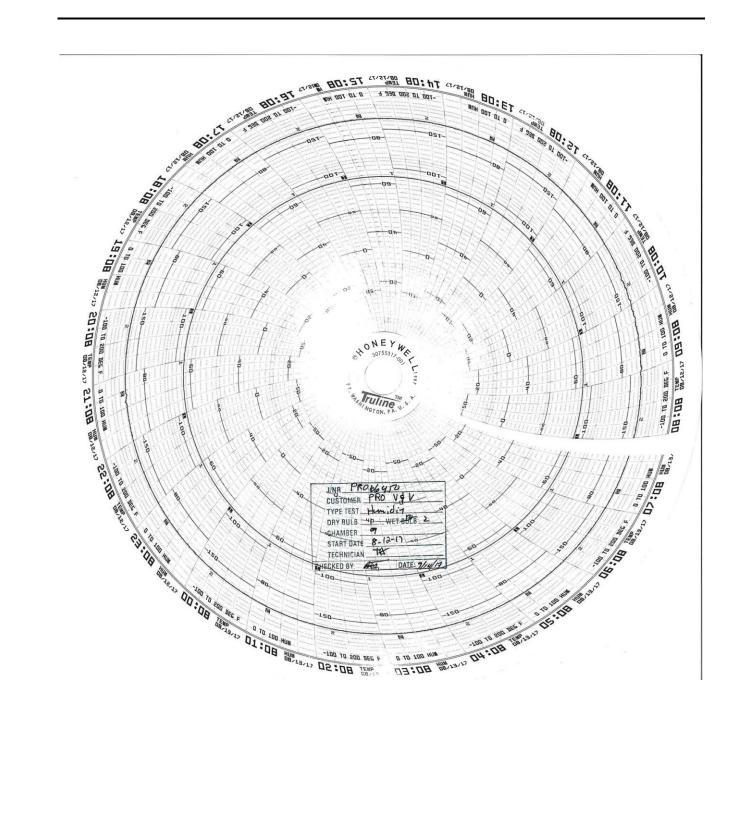
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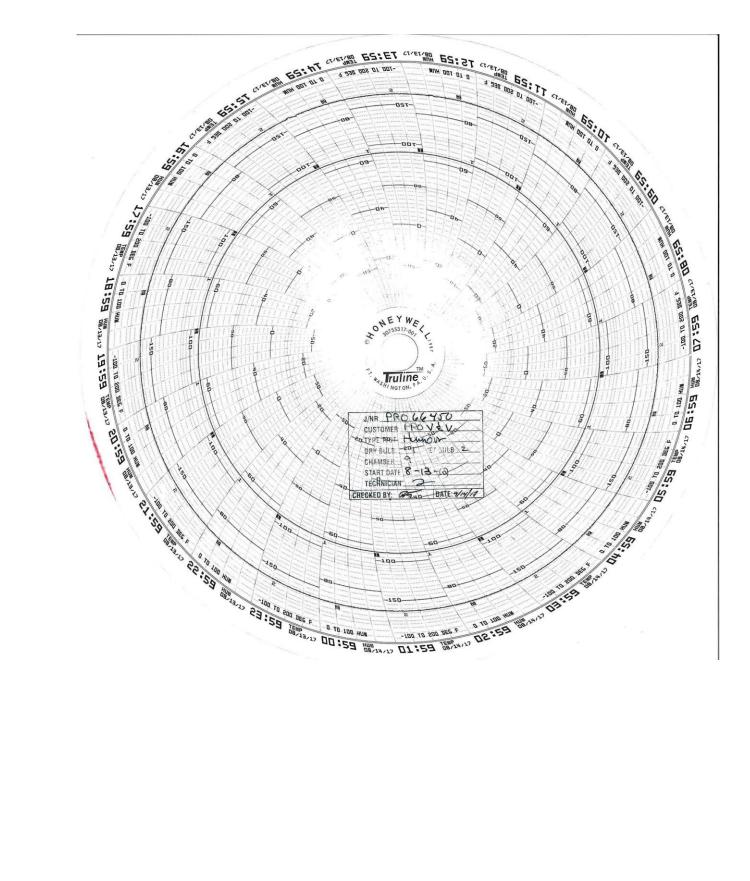




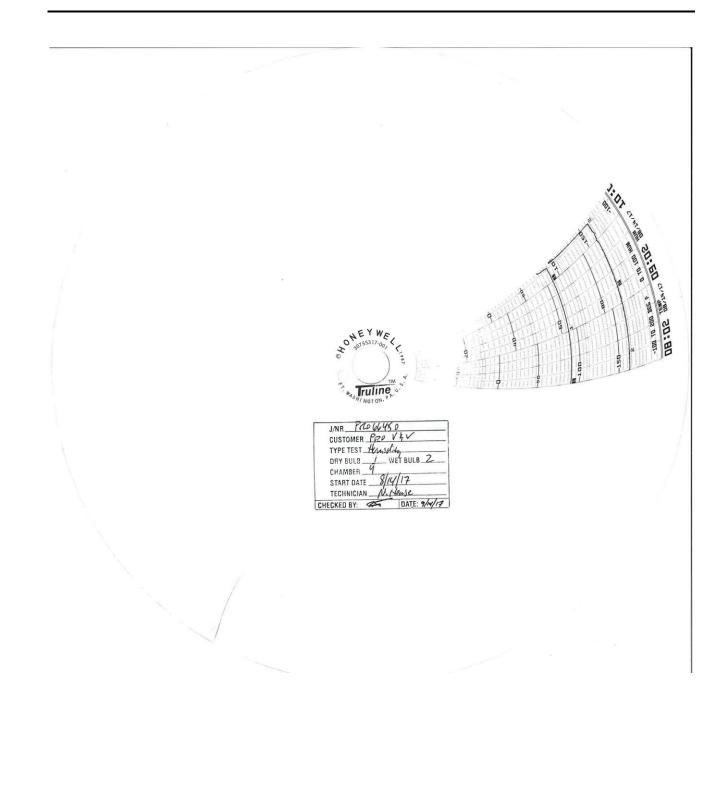
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HIGH TEMPERATURE AND LOW TEMPERATURE STORAGE TEST DATA



NTS HUNTSVILLE OPERATIONS Temperature Datasheet

Project No.	PR066450		Laboratory Ambient Conditions								
Customer Pro V&V			Temperature	Humid	lity <u>60%</u>	Pressure 29.93"					
Procedure	MIL-STD-810D		Specimen Voting Machine								
Method	501.2 & 502.2		Part No.	t No. See Below Start Date 08/15/							
Paragraph	N/A		Serial No.	See Below	d Date 08/16/2017						
Test Title	High Temperatur	e and Low Temp	erature Storage		Sheet _	1 of 1					
DATE	TIME	Chamber Temp (°F)	COMMENTS								
08/15	1115	66	Ramp to -4°F at §	ö°F/min							
	1137	-4	Begin 4 hour soa	ĸ							
	1545	-3	Soak Complete.	Ramp to Ambient at	5°F/min						
	1644	70	Chamber off.								
08/16	0941	71	Start chamber. Ramp to 140°F at 5°F/min								
	1005	140	Begin 4 hour soak								
	1421	140	Soak Complete. Ramp to Ambient at 5°F/min								
	1531	73	Chamber off.								
			l								
Item Number Quantity T		ested	Serial Number		Description						
1		1		1707101552		ICX Tablet					
	2	1	715 VVPAT								
	3	1		1115271A		Printer					

 Tested By
 Date
 17 Aug 2017

 Technician
 Date
 17 Aug 2017

 Approved
 Date
 18 Aug 2017

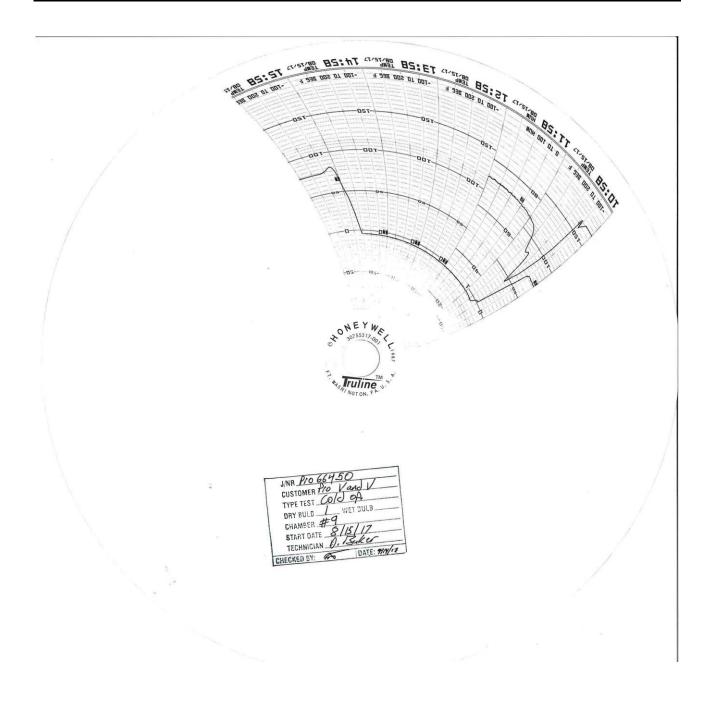
 Project Engineer
 Date
 18 Aug 2017

Notice of Deviation

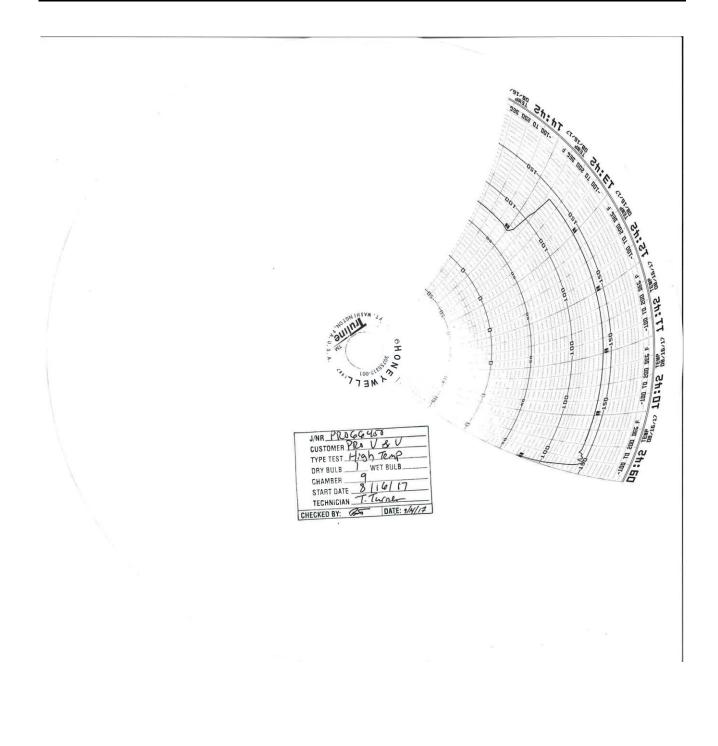
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TRANSPORTATION VIBRATION TEST DATA

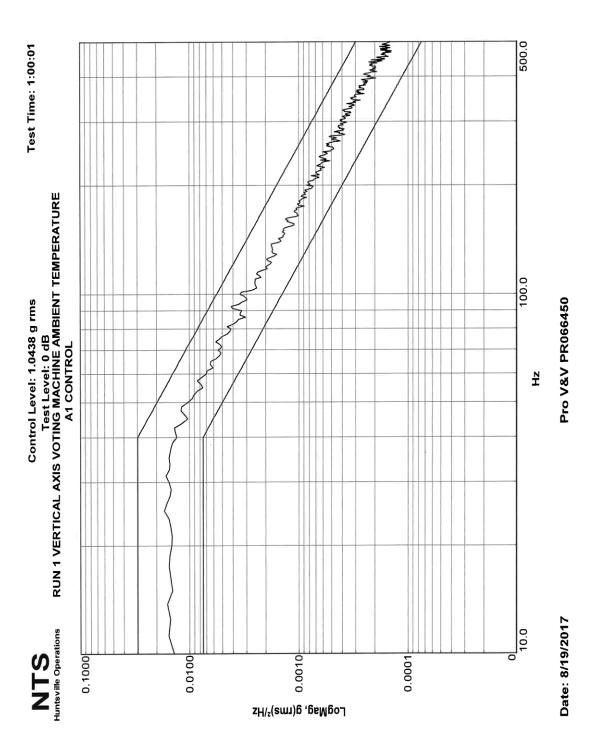
HUNTSVILLE OPERATIONS	E OPERAT	SNOL		>	VIBRATION TEST DATASHEET	ATIC	IT NO	EST	DAT	-ASH	EEI	_	
Project No. PR066450	No.	2066450			Custome	Customer Pro V & V	& V				-	Laboratory Ambient Conditions	litions
Procedure		MIL-STD-810D	810D			Specimen Voting Machine	Machine			Temperature		70°F Humidity 48%	Pressure 29.95"
Method		516.3			Part No.	N/A						Start Date	08/19/2017
Paragraph	A/N Hq	A			8 ° 8	. 17071	Serial No. 1707101552, 715, 1115271A	11152714				End Date	08/20/2017
Test Title		ansport	Transportation Vibe	e								Sheet	1 of 2
				SI	SINUSOIDAL			RANDOM		TOTAL	TEST		
DATE	TIME	AXIS	TEMP (°F)	FREQ (cps)	DISP (in)	ACCEL (g)	FREQ (cps)	PSD (g2/Hz)	SLOPE (dB/oct)	ACCEL (grms)	TIME (mm:ss)	COMMENTS TEST REQUIREMENT	NTS IIREMENT
8/19/2017	14:16	Vert	Amb				10	0.01500			60:01	Run 1 Voting Machine	
							40	0.01500					
							500	0.00015		1.0438			
8/20/2017	14:47	Trans	Amb				10	0.00013			60:01	Run 2 Voting Machine	
							20	0.00065					
							30	0.00065					
							78	0.00002					
							79	0.00019					
							120	0.00019					
							500	0.00001		0.2051			
Signed:	\leq	Q,	2	5		Date	8/21/2017		Approved:	(m	R		Date: 26 Acres
D	-	Þ	Tech	Technician			1	Ĩ.		9	Projec	Project Engineer	
NTSH-1028, Rev. DEC '15	, Rev. DE	C '15 2											

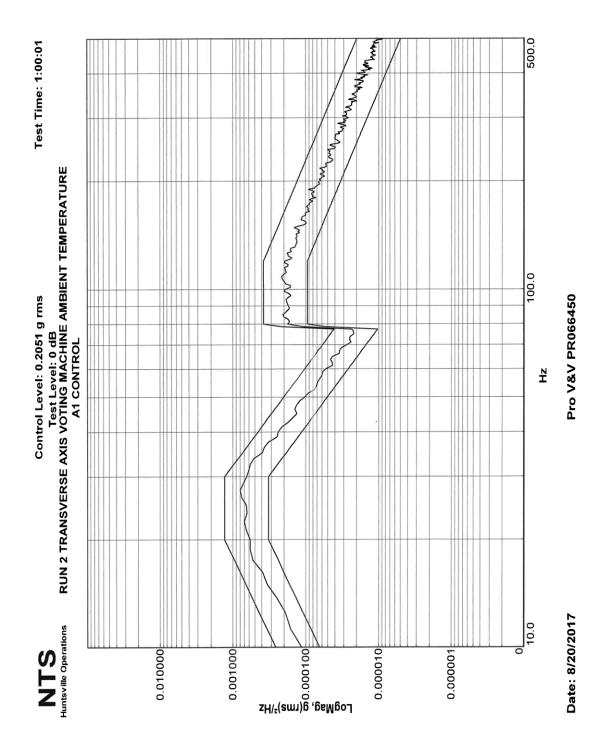
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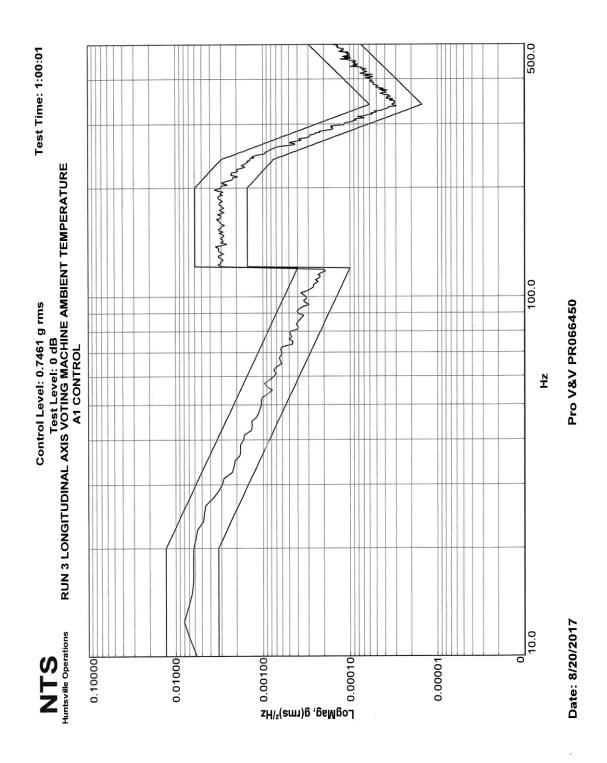
VIBRATION TEST DATASHEET

Report No: PR066450-01DP

				S	SINISOIDAL			RANDOM		TOTAL	TECT	
DATE	TIME	AXIS	TEMP (°F)	FREQ (cps)	DISP (in)	ACCEL (g)	FREQ (cps)	PSD (g2/Hz)	SLOPE (dB/oct)	ACCEL (grms)	TIME (mm:ss)	COMMENTS TEST REQUIREMENT
210010010	46.40	-	420				ę.	0.00650			60-01	Run 3 Voting Machine
0102/02/0	0.10	LUIG						0,00000				
							07					
							120	070070				
							121	0.00300				
							200	0.00300				
							240	0.00150				
							340	0.00003				-
							500	0.00015		0.7461		
M.	X	C				-oto	Date: 8/21/2017		Annround-	K.		Date: 2001-2-
ordired.	-	1 0 .	Technician	nician				1	-		Proje	Project Engineer
NTCH-1028 Dev DEC 15	Dev DE	C '15 ()										
1701-LOIN	אפא. ועב	2										







NTS- Huntsville Operations

BENCH HANDLING TEST DATA



Project No.	PR0664	50					Labora	atory Am	bient	Condit	ions		
Customer	Pro V &	V			Tempe	rature	68.1F	Humic	lity_!	59.9%	Pres	sure	29.39
Procedure	MIL-ST	D-810D			Spec	imen	Thermal	Printer					
Method	516.3				Par	t No.	N/A			Start	Date	08/2	2/2017
Paragraph	N/A				Seria	al No.	1115271	A		End	Date	08/2	2/2017
Test Title	Bench H	landling					.9		_ Sh	eet	1	of	2
Date	Time	Temp	Drop Heigh		Corner o.				Comr				
08/22/17	11:07	Ambient	Tipping Point	Bottor	n Face	Drop#	1 Thermal	I Printer	_				
	11:07	Ambient	Tipping Point	Bottor	n Face	Drop#	2 Thermai	Printer					
	11:08	Ambient	Tipping Point	Bottor	n Face	Drop#	3 Thermal	Printer					
	11:08	Ambient	Tipping Point	Botton	n Face	Drop#	4 Thermal	Printer					
	11:10	Ambient	Tipping Point	Тор	Face	Drop#	5 Thermal	Printer					
	11:11	Ambient	Tipping Point	Тор	Face	Drop#	6 Thermal	Printer					
	11:11	Ambient	Tipping Point	Тор	Face	Drop#	7 Thermal	Printer					
	11:11	Ambient	Tipping Point	Тор	Face	Drop#	8 Thermal	Printer					
	11:14	Ambient	Tipping Point	Front	Face	Drop#	9 Thermal	Printer					
	11:15	Ambient	Tipping Point	Front	Face	Drop#	10 Therma	al Printer					
	11:15	Ambient	Tipping Point	Front	Face	Drop#	11 Therma	al Printer					
	11:15	Ambient	Tipping Point	Front	Face	Drop#	12 Therma	al Printer					
	11:17	Ambient	Tipping Point	Back	Face	Drop#	13 Therma	al Printer					_
	11:17	Ambient	Tipping Point	Back	Face	Drop#	14 Therma	al Printer					
	11:18	Ambient	Tipping Point	Back	Face	Drop#	15 Therma	al Printer					
	11:18	Ambient	Tipping Point	Back	Face	Drop#	16 Therma	al Printer					
	11:20	Ambient	Tipping Point	Right	Face	Drop#	17 Therma	al Printer					
	11:21	Ambient	Tipping Point	Right	Face	Drop#	18 Therma	al Printer					
	11:21	Ambient	Tipping Point	Right	Face	Drop#	19 Therma	al Printer					
	11:21	Ambient	Tipping Point	Right	Face	Drop#	20 Therma	al Printer					
							\wedge						
					Test	ed By	Va		Al.	5	Date		

Deviation None

Approved

30

Project Engineer

Date 25 Au Zor7



Project No.	PR0664	50				Labora	tory Ambier	nt Condit	ions	
Customer				Temper	ature	68.1F	Humidity	59.9%	Pressu	re 29.39
Procedure	MIL-ST	D-810D		Spec	imen	Thermal	Printer			
Method	516.3			Par	t No.	N/A		Start	Date0	8/22/2017
Paragraph	N/A			Seria	No.	1115271	A	End	Date	8/22/2017
Test Title	Bench H	landling					:	Sheet	20	f
Date	Time	Temp	Drop Heigh	Axis / Corner No.			Cor	nments		
08/22/17	11:22	Ambient	Tipping Point	Left Face	Drop#	21 Therm	al Printer			
	11:22	Ambient	Tipping Point	Left Face	Drop#	22 Therm	al Printer			
	11:23	Ambient	Tipping Point	Left Face	Drop#	23 Therm	al Printer			
	11:23	Ambient	Tipping Point	Left Face	Drop#	24 Therm	al Printer			
								5		
						\cap		-1		
Notice of				Tes	ted By	<u>Na</u>	Technician	May	Date	8/22/17 25 Aug 201
Notice of Deviation	None			Apr	oroved	4	Project Engine	er	Date	25 Aug Cort



Project No.	PR0664	50				Labo	oratory A	mbier	nt Condi	tions		
Customer	Pro V &	v		Tempe	rature	68.1	F Hum	hidity	59.9%	Pres	ssure	29.39
Procedure	MIL-STE	D-810D		Spec	imen	VVPA	Т					
Method	516.3			Pa	t No.	N/A			Star	Date	08/2	2/2017
Paragraph	N/A			Seria	l No.	715			End	Date	08/2	2/2017
Test Title	Bench H	landling							Sheet	1	of	1
Date	Time	Temp	Drop Heigh	Axis / Corner No.				Con	nments			
08/22/17	11:25	Ambient	4"	Back Face	Drop#	t1 VVPA	λT					
1	11:25	Ambient	4"	Back Face	Drop#	‡2 715 <i>i</i>	ABS					
	11:26	Ambient	4"	Back Face	Drop#	‡3 715 <i>i</i>	ABS					
	11:26	Ambient	4"	Back Face	Drop#	ŧ4 715 <i>i</i>	ABS					
	11:28	Ambient	4 "	Front Face	Drop#	¢5 715 /	ABS					
	11:28	Ambient	4"	Front Face	Drop#	#6 715 <i>/</i>	ABS					
	11:29	Ambient	4"	Front Face	Drop#	ŧ7 715 /	ABS					
	11:29	Ambient	4"	Front Face	Drop#	#8 715 /	ABS					
	11:30	Ambient	Tipping Point	Bottom Face	Drop#	\$ 9 7 15 /	ABS					
	11:31	Ambient	Tipping Point	Bottom Face	Drop#	ŧ10 715	ABS					
	11:31	Ambient	Tipping Point	Bottom Face	Drop#	ŧ11 715	ABS					
	11:31	Ambient	Tipping Point	Bottom Face	Drop#	ŧ12 715	ABS					
	11:33	Ambient	4"	Right Face	Drop#	ŧ13 715	ABS					
	11:33	Ambient	4"	Right Face	Drop#	ŧ14 715	ABS					
	11:34	Ambient	Tipping Point	Right Face	Drop#	\$15 715	ABS					
	11:34	Ambient	Tipping Point	Right Face	Drop#	ŧ16 715	ABS					
	11:35	Ambient	4"	Left Face	Drop#	17 715	ABS					
	11:35	Ambient	4"	Left Face	Drop#	18 715	ABS					
	11:35	Ambient	Tipping Point	Left Face	Drop#	19 715	ABS					
	11:36	Ambient	Tipping Point	Left Face	Drop#	20 715	ABS					
					*Тор	Face No	ot Practica	al for S	ervice			
						\square						

Elly Tested By G Technician (B)

Project Engineer

__ Date <u>8/22/17</u> __ Date <u>25 Acc 200</u>7

Notice of Deviation None

Approved



Project No.	PR0664	50			Laboratory Ambient Conditions
Customer				Tempe	rature 68.1F Humidity 59.9% Pressure 29.39
Procedure				Spec	imen ICX Tablet
Method				Par	t No. N/A Start Date 08/22/2017
Paragraph					al No. 1707101552 End Date 08/22/2017
Test Title		landling			Sheet _ 1 of1
Date	Time	Temp	Drop Heigh	Axis / Corner No.	Comments
08/22/17	13:33	Ambient	4 "	Back Face	Drop#1 Voting Machine
	13:33	Ambient	4 "	Back Face	Drop#2 Voting Machine
	13:34	Ambient	4"	Back Face	Drop#3 Voting Machine
	13:34	Ambient	4"	Back Face	Drop#4 Voting Machine
	13:38	Ambient	4"	Front Face	Drop#5 Voting Machine
	13:38	Ambient	4"	Front Face	Drop#6 Voting Machine
	13:39	Ambient	4 "	Front Face	Drop#7 Voting Machine
	13:39	Ambient	4"	Front Face	Drop#8 Voting Machine
					* Top, Bottom, Left, Right Face not Practical for Service
				Test	red By
Notice of Deviation	None			Арр	proved Date Date

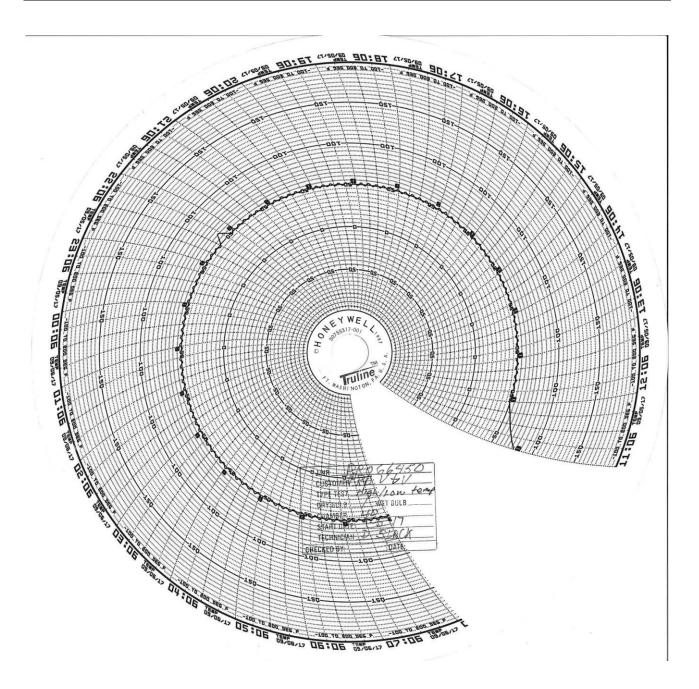
TEMPERATURE AND POWER VARIATION



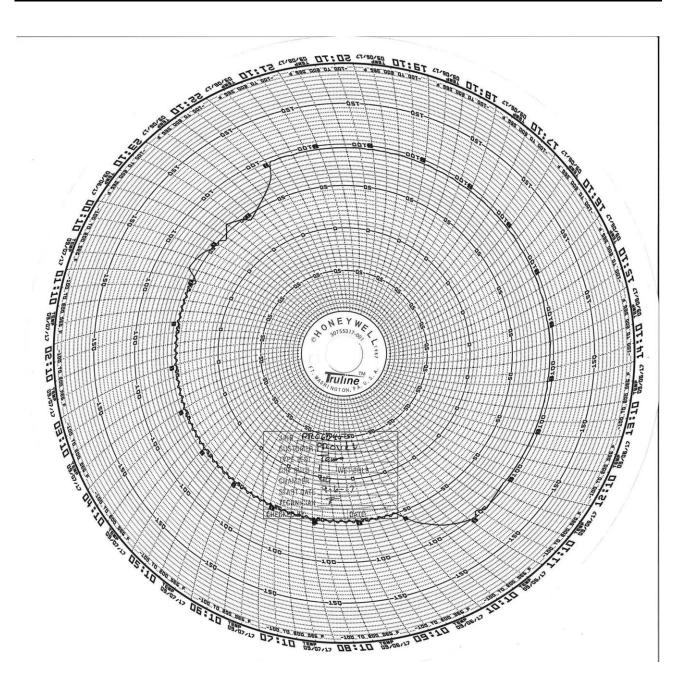
Temperature Datasheet

roject No.	PR066450		Laboratory Ambient Conditions
Customer			Temperature 70° Humidity 60% Pressure 29.93"
	MIL-STD-810D		Specimen Voting Machine
	501.2 & 502.2		Part No. See Below Start Date 09/05/2017
Paragraph			Serial No. See Below End Date 09/09/2017
	Temperature & P	ower Variation	
DATE	TIME	Chamber Temp (°F)	COMMENTS
09/05	1100	78	Ramp to 50°F
09/06	0808	50	Changed chart.
	2320	44	Temp alarm tripped. Reset chamber. Restart interval 7.
09/07	0044	60	Stop Program. Ramp chamber to 50°F. Continue in Manual Mode.
	0812	50	Changed chart.
	1104	50	Ramp to 95°F
	1200	95	Chamber temp stabilized.
	2300	95	Ramp to ambient
	2313	72	Ramp complete.
09/08	0807	70	Changed chart.
	1801	81	Reset chamber cooling packages. Return to ambient.
	1830	72	Chamber temp stabile
09/09	0755	72	Changed chart.
	1102	72	End test.
Matter of		Serial Numb	Ders tested: 1707101720 1707101845 1707101722 1707101778 Tested By Dublic Date 9-15-26 Technician
Notice of Deviation	Nover		Approved Date 15 Sept 2017
	- Munc		Project Engineer

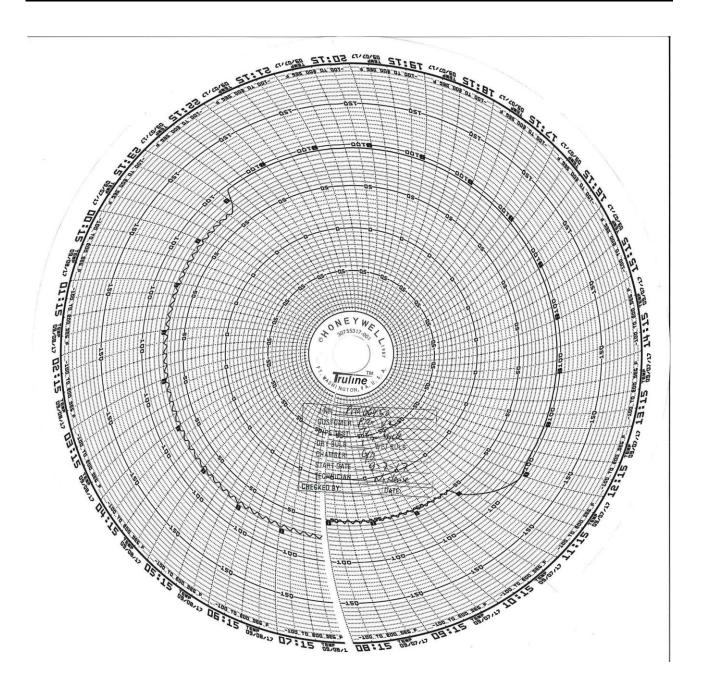
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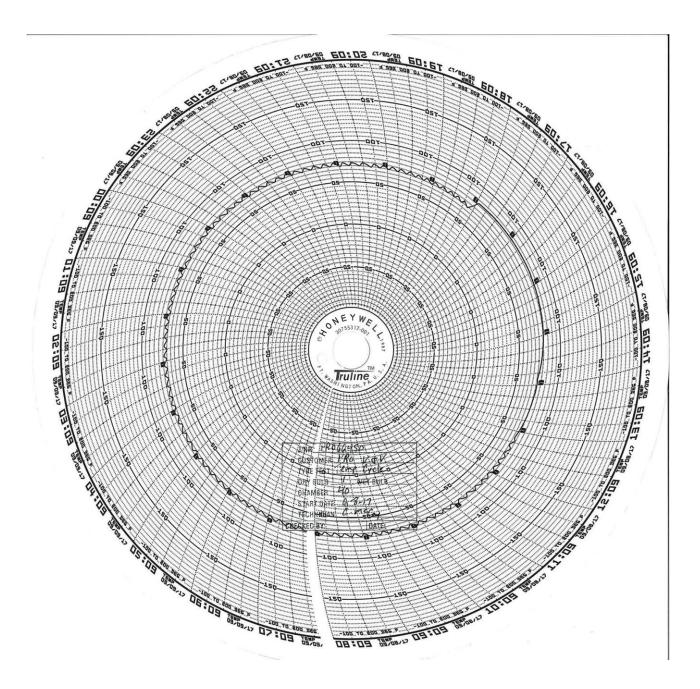
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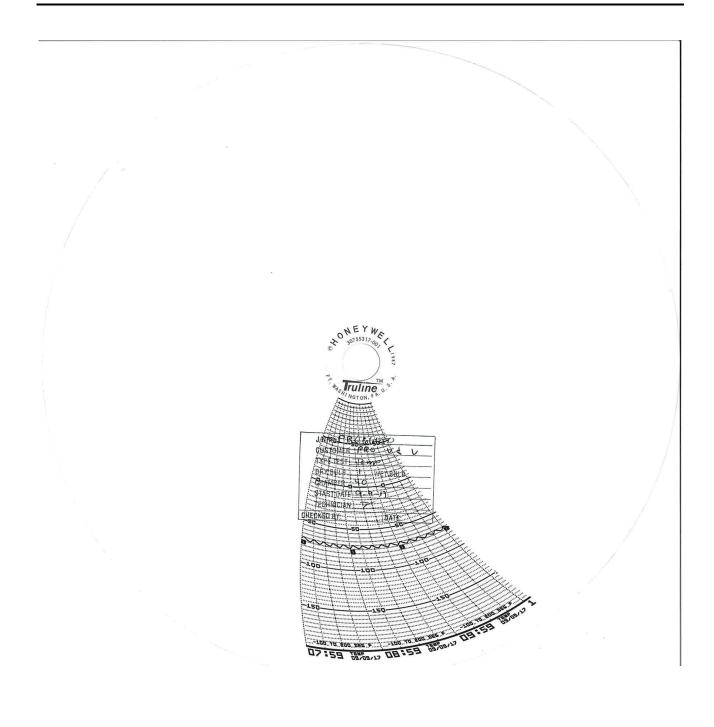
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Page No. 53 of 59 NTS Job No. PR066450-01



INSTRUMENTATION EQUIPMENT SHEETS

Page No. 55 of 59 NTS Job No. PR066450-01



INSTRUMENTATION EQUIPMENT SHEET

Date:	07/31/2017	Job Number	er: PR066450	Туро	e of Test:	Humidity		
Technician:	D Risinger	Customer:	Pro V&V	Test	Arca:	Env Chambe	r 9	
Description	Manufacturer	Model	Serial#	Asset #	Range	Accuracy	Cal Date	Cal Due
1 Controller	Watlow	F4T	001517	118354 *	Multi	MFG	05/11/2017	05/11/2018
2 Controller	Watlow	PM6L	304491	118212 •	Multi	MFG	05/11/2017	05/11/2018
3 Humidity\temp Mtr	Vaisala	HMT315	L4620667	WC043094 ·	Multi	MFG	07/06/2017	01/06/2018
4 Temp Recorder	Honeywell	DR450T	9244885050004	109831	-200-600°f	.4°F	05/11/2017	05/11/2018
							· •	

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.

Daneld afting 31 gel 2017 Check & Received By: A 31 July 2017 QA: Autor 7/31/2017 Instrumentation:

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INSTRUMENTATION EQUIPMENT SHEET

Date:	8/15/2017	Job Numb	er:	PRO66450		Туре	of Test:	High/Low 1	ſemp op.	
Technician:	D.B.	Customer:		Pro V&V		Test	Area:	Chamber 9		
Description 1 Controller 2 Controller 3 Temp Recorder	<u>Manufacturer</u> Watlow Watlow Honeywell	<u>Model</u> F4T PM6L DR450T	001 304	<u>erial#</u> 1517 1491 14885050004	<u>Asset #</u> 118354 118212 109831		<u>Range</u> Multi Multi -200-600°f	Accuracy MFG MFG .4°F	<u>Cal Date</u> 5/11/2017 5/11/2017 5/11/2017	<u>Cal Due</u> 5/11/2018 5/11/2018 5/11/2018

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.

2017 Check & Received By: 15 Aug 2017 Instrumentation: Mara Elistaon QA: Bienda Page 1 of 1

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INSTRUMENTATION EQUIPMENT SHEET

Date:	8/18/2017	Job Numb	Der: PR066450	Тур	e of Test:	VIBRATIC)N	
Technician:	MPRYOR	Customer	: PRO V&V	Tes	t Area:	DYN LAB		
Description 1 Accelerometer 2 Dyn Sig Analyz 3 Sig Cond 4 Sig Cond	<u>Manufacturer</u> Endevco zer Data Physics Corp Endevco Endevco	<u>Model</u> 7704A-50 70921 2775B 2775B	<u>Serial#</u> 12608 15005246 AC49 AM12	Asset # 04868 118165 117134 02327	<u>Range</u> 50pc/G Multi Gain Gain	Accuracy ±5% MFG ±1.5% ±1.5%	<u>Cal Date</u> 2/24/2017 4/17/2017 10/6/2016 9/9/2016	Cal Due 8/24/2017 4/17/2018 10/6/2017 9/9/2017

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.

Received By: Check & Received By: ADE ISIL 8 QA: Bioncha Merco

NTSH-1029A, REV, MAR '14

Instrumentation:

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INSTRUMENTATION EQUIPMENT SHEET

Date:	8/22/2017	Job Numb	er: PR066450	Type of Test:	Bench Handling
Technician:	D.Medley	Customer:	Pro V&V	Test Area:	Dyn Lab
Description 1 Ruler 2 Temp/Hum/Bar	Manufacturer Production Proc Ind Extech	<u>Model</u> PEC-16104D SD700	<u>Serial#</u> NSN A027767	<u>Asset # Range</u> 04469 48" WC043049 Multi	Accuracy Cal Date Cal Due ±0.5 DIV 11/18/2015 11/18/2020 MFG 2/16/2017 2/16/2018

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:

Elly 8/22/17 Check & Received By: 50 22 Ay Zor7 QA: Meetin Com 8/22/19

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INSTRUMENTATION EQUIPMENT SHEET

Date:	Date: 9/5/2017		oer:	PR066450		Type of Test:	HIGH/LOW		
Technician:	D.SLACK	Customer:		PRO V&V	Test Area:		CH 40		
Description 1 Temp Controlle 2 Temp Recorder		<u>Model</u> 7800 DR450T	-	<u>Serial#</u> 244885050005	<u>Asset #</u> 03843 109830	<u>Range</u> Type T -200-600°f	<u>Accuracy</u> ±1°C .4°F	<u>Cal Date</u> 11/30/2016 11/30/2016	<u>Cal Due</u> 11/30/2017 11/30/2017

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.

Z QA: Martin Carpon 9/5/2017 Instrumentation:

NTSH-1029A, REV, MAR '14

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