

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC154930 1 of 21 Page:

FCC Test Report FCC ID: 2ADXY59508

Original Grant

TB-FCC154930 Report No.

The Vollrath Company, LLC **Applicant**

Equipment Under Test (EUT)

EUT Name Induction Buffet Warmer

Model No. 5950875

Series Model No. 5950880, 59508DW

VOLLRATH Brand Name

Receipt Date 2017-06-26

2017-06-27 to 2015-07-03 **Test Date**

2017-07-04 **Issue Date**

FCC Part 18: 2016 **Standards**

PASS Conclusions

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC requirements

Test/Witness Engineer

Approved& Authorized

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0

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1. General Information about EUT

1.1 Client Information

Applicant: The Vollrath Company, LLC

Address: 1236 North 18th Street, Sheboygan, WI 53081

Manufacturer : Luxine (Xi'an) Electronics Co., Ltd.

Address : 4th Floor, Building B, Seeker Industrial Park, 2nd Jin Ye Rd, Hi-tech

Development Zone, Xi'an Shaanxi, China 710075

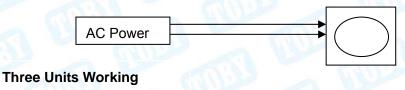
1.2 General Description of EUT (Equipment Under Test)

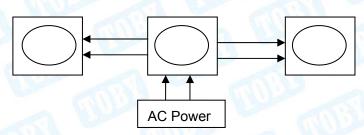
EUT Name		Induction Buffet Warmer
Models No.	:	5950875, 5950880, 59508DW
Model difference		All these models are identical in the same PCB, layout and electrical circuit, the only difference is the color of the appearance and installation: 5950875: Countertop, Black; 5950880: Countertop, Natural; 59508DW: Drop-in, added a remote control box, connected by a USB cable.
Power Supply		AC 120V, 60Hz
Power	1	One unit maximum power: 375W Three units maximum power: 3*375W
Connecting I/O Port(s)	:	Please refer to the User's Manual

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.3 Block Diagram Showing the Configuration of System Tested

One Unit Working







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1.4 Description of Support Units

The EUT has been tested with water up to 80% of the maximum capacity of the boiler.

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of the EUT operation mode, and the worst Case is when the EUT is operation with the maximum power, so the conducted and radiated emission data of bellow only showed the worst case.

1.6 Test Location

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at: 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.



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2. Test Summary

FCC Part 18: 2016								
Standard Section	Test Item	Test Method	Judgment					
18.305	Radiated Emission (9KHz to 30MHz)	FCC OST/MP-5:1986	PASS					
18.307(a)	Conducted Emission (9KHz to 30MHz)	FCC OST/MP-5:1986	PASS					



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3. Conducted Emission Test

3.1 Test Standard and Limit

3.1.1Test Standard

FCC Part 18.307(a)

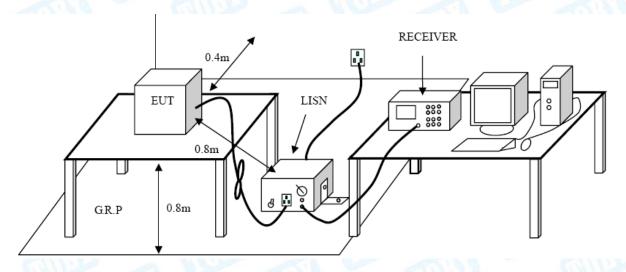
3.1.2 Test Limit

Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dBμV)				
(MHz)	Quasi-peak Level	Average Level			
0.009 ~ 0.05	110	THU THE			
0.05 ~ 0.15	90 ~ 80	- WILL			
0.15 ~ 0.5	66 ~ 56 *	56 ~ 46 *			
0.5 ~ 5	56	46			
5 ~ 30	60	50			

Notes:(1) *Decreasing linearly with logarithm of the frequency.

3.2 Test Setup



3.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

⁽²⁾ The lower limit shall apply at the transition frequencies.



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Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from the nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

3.4 Deviation

The test is no deviation from the standard.

3.5 Test Equipment Used

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test	ROHDE&		100321	Jul. 22, 2016	Jul. 21, 2017
Receiver	SCHWARZ	ESCI	100321	Jul. 22, 2010	Jul. 21, 2017
50ΩCoaxial	Anritsu	MP59B	X10321	Jul. 22, 2016	Jul. 21, 2017
Switch	Auntou	WII 39B	X10321	odi. 22, 2010	oui. 21, 2017
L.I.S.N	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
L.I.S.N	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017

3.6 Test Data

Please see the next page.



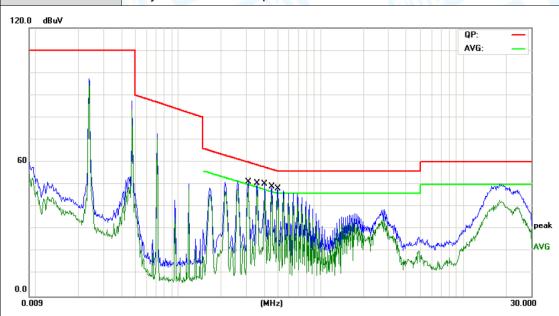


EUT:Induction Buffet WarmerModel Name :5950875Temperature:22 °CRelative Humidity:55%Test Voltage:AC 120V/60 Hz

Terminal: Line

Test Mode: One Unit working

Remark: Only worse case is reported



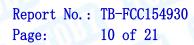
			Reading	Correct	Measure-			
No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	
		MHz	dBuV	dB	dBu∀	dBuV	dB	Detector
1		0.3100	40.42	10.08	50.50	59.97	-9.47	QP
2		0.3100	37.63	10.08	47.71	49.97	-2.26	AVG
3		0.3580	39.70	10.07	49.77	58.77	-9.00	QP
4		0.3580	36.88	10.07	46.95	48.77	-1.82	AVG
5		0.4060	39.01	10.05	49.06	57.73	-8.67	QP
6	*	0.4060	36.11	10.05	46.16	47.73	-1.57	AVG
7		0.4540	37.96	10.04	48.00	56.80	-8.80	QP
8		0.4540	35.06	10.04	45.10	46.80	-1.70	AVG
9		0.5020	36.99	10.02	47.01	56.00	-8.99	QP
10		0.5020	34.15	10.02	44.17	46.00	-1.83	AVG

Emission Level= Read Level+ Correct Factor



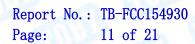


EUT: **Induction Buffet Warmer Model Name:** 5950875 22 ℃ **Relative Humidity:** Temperature: 55% Test Voltage: AC 120V/60 Hz Terminal: Neutral Test Mode: One Unit working Remark: Only worse case is reported 120.0 dBuV AVG: 60 AVG 0.0 0.009 (MHz) 30.000 Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dΒ dBuV dBuV dΒ Detector -11.33 0.2620 40.01 10.02 QΡ 50.03 61.36 2 0.2620 37.16 10.02 47.18 51.36 -4.18 AVG 0.3100 38.94 10.02 48.96 59.97 -11.01 QP 3 -3.81 4 0.3100 36.14 10.02 46.16 49.97 AVG 5 0.3580 37.31 10.02 47.33 58.77 -11.44 QΡ 0.3580 34.50 10.02 -4.25AVG 44.52 48.77 6 7 0.4060 35.54 10.02 45.56 57.73 -12.17 QΡ 0.4060 32.65 10.02 42.67 47.73 -5.06 AVG 8 9 0.4500 38.73 10.02 48.75 56.87 -8.12 QΡ 10 0.4500 35.83 10.02 45.85 -1.02AVG 46.87 Emission Level= Read Level+ Correct Factor





EUT:	Induction Buffet W	/armer	Model N	Name :	5950875
Temperature:	22 °C	13	Relative	Humidity:	55%
Test Voltage:	AC 120V/60 Hz			ATT I	9
Terminal:	Line	Alle		630	
Test Mode:	Three Units worki	ng	WILLIAM STATE		HILL
Remark:	Only worse case i	s reported	-		
0.009		(MHz)	Marie de la contraction de la	Market Ma	QP:
No. Mk. Fr	Reading req. Level	Correct N Factor	/leasure- ment	Limit O	ver
M	Hz dBuV	dB	dBu∨	dBuV d	B Detector
1 0.2	580 36.07	10.02	46.09	61.49 -15.	40 QP
2 * 0.2	580 32.77	10.02	42.79	51.49 -8.7	70 AVG
3 0.30	060 32.44	10.02	42.46	60.08 -17.	62 QP
4 0.30	060 29.21	10.02	39.23	50.08 -10.	85 AVG
5 0.3	540 29.03	10.02	39.05	58.87 -19.	82 QP
6 0.39	540 26.01	10.02	36.03	48.87 -12.	84 AVG
7 0.39	980 32.10	10.02	42.12	57.89 -15.	77 QP
8 0.39	980 29.00	10.02	39.02	47.89 -8.8	B7 AVG
9 0.4	460 26.70	10.02	36.72	56.95 -20.	23 QP
10 0.44	460 23.64	10.02	33.66	46.95 -13.	29 AVG
Emission Level=	Read Level+ Corre	ect Factor			





UT:		Indu	ction Buffet \	Warmer	Model	Name:		5950875	
empe	erature	: 22 °	C	33	Relativ	e Humi	dity:	55%	
est V	oltage:	AC 1	120V/60 Hz	-		(6)	11/2 /		
ermir	nal:	Neu	tral	LHO.		16			
est M	lode:	Thre	e Units work	king					
Remar	rk:	Only	worse case	is reported	Carrie	600	130		
120.0	dBuV								
60			×				QP:		
0.0				(MHz)	Harmon Market Product	A STATE OF THE STA		30.000	
0.009	Mk.	Freq.	Reading		Measure- ment	Limit	Over	30.000	
0.009		Freq.	_	Correct		Limit	Over	30.000	
0.009			Level	Correct Factor	ment			30.000	
0.009 No.		MHz	Level	Correct Factor	ment dBuV	dBuV	dB	30.000	
0.009 No.		MHz 0.1620	dBuV 45.84	Correct Factor dB 9.94	ment dBuV 55.78	dBu√ 65.36 55.36	dB -9.58	30.000 Detector QP	
0.009 No.		MHz 0.1620 0.1620	dBuV 45.84 42.37	Correct Factor dB 9.94 9.94	ment dBuV 55.78 52.31	dBu√ 65.36 55.36	dB -9.58 -3.05 -15.74	30.000 Detector QP AVG	
0.009 No.		MHz 0.1620 0.1620 0.2100	Level dBuV 45.84 42.37 37.44	Correct Factor dB 9.94 9.94 10.02	ment dBuV 55.78 52.31 47.46	dBuV 65.36 55.36 63.20 53.20	dB -9.58 -3.05 -15.74	Detector QP AVG QP	



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4. Radiated Emission Test

4.1 Test Standard and Limit

4.1.1 Test Standard

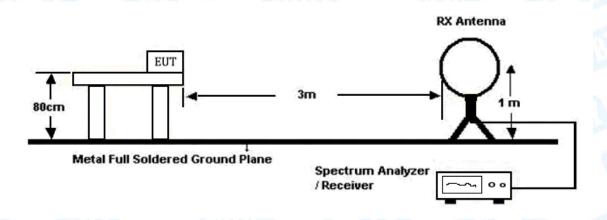
FCC Part 18.305

4.1.2 Test Limit

Radiated Emission Limit (9kHz~30MHz)

Frequency (MHz)	Field Strength Limit (microvolt/meter)	Measurement Distance (meters)
0.009~30	1500	30

4.2 Test Setup



4.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 30MHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) An initial scan was performed in the 3m chamber using the spectrum analyzer in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by a loop antenna.
- (3) For the actual test configuration, please see the test setup photo.

4.4 Deviation

For Radiated Emission, test at 3m distance instead of 30m distance. 40dB was plus to the limit of 30m measurement limit. More details refer to FCC part 15.31(f)(2).

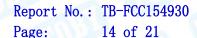


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4.5 Test Equipment

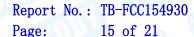
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Jul. 22, 2016	Jul. 21, 2017
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.25, 2017	Mar. 24, 2018
Pre-amplifier	HP	11909A	185903	Mar.25, 2017	Mar. 24, 2018
Pre-amplifier	HP	8447B	3008A00849	Mar.24, 2017	Mar. 23, 2018
Cable	HUBERSUHNER	100	SUCOFLEX	Mar.24, 2017	Mar. 23, 2018
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Loop Antenna	Laplace Instrument	RF300	100020	Mar.24, 2017	Mar. 23, 2018

4.6 Test Data



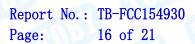


EUT: **Induction Buffet Warmer** 5950875 **Model Name:** 22 °C 55% **Relative Humidity: Temperature:** AC 120V/60 Hz **Test Voltage:** Ant. Pol. Horizontal to EUT **Test Mode:** One Unit Working Remark: Frequency Range: 9kHz~0.15MHz 120 Level (dBuV/m) 110 FCC PART18 INDUCTION 90 70 while my hand down the mand help Laplace by be the more hand more and walken before from the percentantal perchabate 10 -10 -20<mark>0.009</mark> 0.02 0.05 0.1 0.15 Loss Factor Level Line Limit Remark Freq Level Factor dB dBuV/m dBuV/m MHz dBuV dB/m 碅 dB 0.00 0.023 14.02 0.08 95.20 103.50 -8.30 81.10 0.04748.68 13.81 0.170.00 62.66 103.50 -40.84 3 77.85 103.50 -25.65 0.070 63.86 13.80 0.00 0.1950.83 103.50 -52.67 4 0.094 36.90 13.75 0.00 0.18 0.117 0.21 5 56.45 13.35 0.00 70.01 103.50 -33.49 32.60 12.57 0.25 0.1400.00 45.42 103.50 -58.08 **Emission Level= Read Level+ Correct Factor**



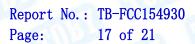


EUT: **Induction Buffet Warmer** 5950875 **Model Name:** 22 °C 55% **Relative Humidity: Temperature:** AC 120V/60 Hz **Test Voltage:** Ant. Pol. Vertical to EUT **Test Mode:** One Unit Working Remark: Frequency Range: 9kHz~0.15MHz 120 Level (dBuV/m) 110 FCC PART18 INDUCTION 90 70 50 hapland brown was part 10 -10 -20<mark>0.009</mark> 0.02 0.05 0.1 Loss Factor Level Line Limit Remark Freq Level Factor MHz dBuV dB/m dB dBuV/m dBuV/m 0.023 82.71 13.98 0.08 0.00 96.77 103.50 -6.73 2 47.85 103.50 -55.65 0.041 33.06 14.64 0.15 0.00 0.00 0.047 53.17 13.81 0.17 67.15 103.50 -36.35 80.43 103.50 -23.07 55.02 103.50 -48.48 0.070 13.80 0.00 4 66.44 0.19 13.75 13.35 5 41.09 0.0940.18 0.00 0.21 72.47 103.50 -31.03 58.91 0.00 0.117**Emission Level= Read Level+ Correct Factor**





EUT:	Induct	tion Buff	et warrin	ei ivio	del Nam	e:	5950	875	
Temperature:	22 ℃	A A		Rel	ative Hu	ımidity:	55%		
Test Voltage:	AC 12	20V/60 H	lz	Miles					1
Ant. Pol.	Horizo	ontal to E	EUT			1830		RATE	
Test Mode: One Unit Working					133		Ŋ		
Remark:	Frequ	ency Ra	nge: 0.1	5MHz~3	0MHz	10		1	
120 Level (dBuV/m)								
110							FCC PART	18 INDUCTIO	M
90									
70 1 1 2									
M 2 3 1	4								
M 2 3 1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1.0 A.A.A.A.A.A.A.	S Whan wall		6	27k12			
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30 10 -10 -20 0.150.2	0.5		1	2					30
30 10 -10 -20 0.150.2	0.5		1	2			10		30
30 10 -10 -20 0.150.2	0.5		1	2 Factor		Line			30
50 3 30 30 3 10 -10 -20 0.150.2 Freq	0.5 Level dBuV 54.99	Factor	1 Loss	Factor dB	Level dBuV/m 67.23	Line dBuV/m 103.50	Limit dB -36.27		30
50 3 30 30 3 10 -10 -20 0.150.2 Freq	0.5 Level dBuV 54.99 48.69	Factor dB/m 11.95 11.49	1 Loss	2 Factor	Level dBuV/m 67.23 60.51	Line dBuV/m 103.50 103.50	Limit		3
50 3 30 30 3 10 -10 -20 0.150.2 Freq	0.5 Level dBuV 54.99 48.69 40.12 38.02	Factor	Loss	2 Factor	Level dBuV/m 67.23 60.51 53.30 52.13	Line dBuV/m 103.50 103.50 103.50 103.50	Limit		36
50 3 30 30 10 -10 -20 0.150.2 Freq	0.5 Level dBuV 54.99 48.69 40.12	Factor dB/m 11.95 11.49 12.84	Loss	2 Factor	Level dBuV/m 67.23 60.51 53.30 52.13 39.47	Line dBuV/m 103.50 103.50 103.50	Limit		30





EUT:	Induction Buffe	t Warmer	Model Name :	5950875			
Temperature:	22 °C	, Trainici	Relative Humidity				
Test Voltage:	AC 120V/60 H	7		- 3370			
Ant. Pol.	Vertical to EUT						
Test Mode:	One Unit Working						
Remark:	Frequency Rar	_	Hz~30MHz	DIE.			
	1 requeries real	ige. 0. 10ivii	12 0011112		4.6		
120 Level (dBuV/m)							
110				FCC PART18 INDU	CTION		
90							
70 1							
↑ 2 ↑ 3							
50	MANIA.	5	6				
30	VVVIII	BANKA MARANA	Mark and of property of the state of the sta	a to reason with referent which we would	manufacture the		
200							
10							
-10							
-200.150.2	0.5 1	2	5	10 20	30		
				T T	. 10		
	Level Factor		tor Level Line		rk 		
MHz	dBuV dB/m	₫B	dB dBuV/m dBuV/m	dВ			
1 0.163			.00 65.67 103.50				
2 0.211 3 0.258	39.42 12.84	0.34 0	.00 59.59 103.50 .00 52.60 103.50	-50.90			
1 0.163 2 0.211 3 0.258 4 0.419 5 2.155			.00 49.12 103.50 .00 39.35 103.50				
6 2.900			.00 38.88 103.50				
Emission Leve	l= Read Level+ Co	orrect Fact	or				





EUT: **Induction Buffet Warmer** 5950875 **Model Name:** 22 °C 55% **Relative Humidity: Temperature:** AC 120V/60 Hz **Test Voltage:** Horizontal to EUT Ant. Pol. **Test Mode:** Three Units Working Remark: Frequency Range: 9kHz~0.15MHz 120 Level (dBuV/m) 110 FCC PART18 INDUCTION 90 70 50 30 Mapy Upod 10 -10 -20<mark>0.009</mark> 0.02 0.05 0.1 Freq Level Factor Loss Factor Level Line Limit Remark ₫B MHz dBuV dB/m dB dBuV/m dBuV/m 0.023 86.81 13.84 0.08 0.00 100.73 103.50 2 88.78 13.98 0.00 102.84 103.50 -0.66 0.023 0.08 3 0.19 0.068 65.15 13.82 0.00 79.16 103.50 -24.34 0.070 66.85 13.80 0.19 0.00 80.84 103.50 -22.66 0.073 0.00 77.06 103.50 -26.44 63.14 13.73 0.19 **Emission Level= Read Level+ Correct Factor**



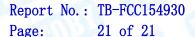


EUT:	Induc	tion Buffe	et Warme	er Mo	del Nam	e:	59508	375	
Temperature:	22 ℃	22 ℃			Relative Humidity:			55%	
Test Voltage: AC 120V/60 F		z							
Ant. Pol.	Vertic	Vertical to EUT							
Test Mode:	Three Units Working Frequency Range: 9kHz~0.15MHz								
Remark:									
120 Level (dBuV/m)									
110							FCC PART1	18 INDUCTION	
90		12 3							
		MM				5			
70		119			4			6	
50		n l	}		MA				
	n		1.	. 1					
TO MALLY MALLY MINE	MEN MALL	ada (N	MA de la la	1 1 1 1 1 1					
30 Mary Mary Mary	walded purpled	ngalon (N	Mandala	will house he	IN MANAGEY	My franch	hoyen Hilly	Mary Mary	
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EUT: **Induction Buffet Warmer** 5950875 **Model Name:** 22 °C 55% **Relative Humidity:** Temperature: AC 120V/60 Hz **Test Voltage:** Ant. Pol. Horizontal to EUT **Test Mode:** Three Units Working Remark: Frequency Range: 0.15MHz~30MHz 120 Level (dBuV/m) 110 FCC PART18 INDUCTION 90 70 50 30 10 -10 -20<mark>0.1</mark>5 7. 9. 11. 13. 15. 17. 19. 21. 23. 27. 29. 30 Loss Factor Level Line Limit Remark Freq Level Factor dB dBuV/m dBuV/m MHz dBuV dB/m ďΒ 0.00 0.150 0.27 66.29 103.50 -37.21 53.73 12.29 38.55 103.50 -64.95 36.30 103.50 -67.20 33.91 103.50 -69.59 34.29 103.50 -69.21 23 3.045 0.66 23.19 14.70 0.00 5.344 12.209 20.51 15.23 0.560.00 4 13.62 0.60 19.69 0.00 17.851 13.52 0.67 5 20.10 0.00 27.672 24.21 0.74 0.00 36.55 103.50 -66.95 11.60 **Emission Level= Read Level+ Correct Factor**





EUT: **Induction Buffet Warmer Model Name:** 5950875 22 °C 55% **Relative Humidity: Temperature:** AC 120V/60 Hz **Test Voltage:** Vertical to EUT Ant. Pol. **Test Mode:** Three Units Working Remark: Frequency Range: 0.15MHz~30MHz 120 Level (dBuV/m) 110 FCC PART18 INDUCTION 90 70 50 30 10 -10 -20<mark>0.15</mark> 7. 9. 11. 13. 15. 17. 19. 21. 23. 25. 27. 29. 30 Freq Level Factor Loss Factor Level Line Limit Remark dBuV dB dBuV/m dBuV/m MHz dB/m 碅 0.150 0.27 58.27 12.29 0.00 70.83 103.50 -32.67 1.404 29.56 14.74 0.63 0.00 44.93 103.50 -58.57 43.53 103.50 -59.97 3 2.210 27.80 15.08 0.650.00 0.00 36.39 103.50 -67.11 20.54 15.26 4.926 0.59 0.50 5 8.090 19.66 14.61 34.77 103.50 -68.73 0.00 19.463 20.23 13.74 0.66 0.00 34.63 103.50 -68.87 **Emission Level= Read Level+ Correct Factor**

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