

# Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC159572

1 of 22

# **FCC Test Report** FCC ID: 2ADXY59503LN

## **Original Grant**

TB-FCC159572 Report No.

The Vollrath Company, LLC **Applicant** 

**Equipment Under Test (EUT)** 

: Buffet Induction Warmer **EUT Name** 

Model No. 59503LN75

5950275, 5950280, 59502DW, 59503LN85, 59503LNDW, Series Model No.

59503SB75, 59503SB85, 59503SBDW

**Brand Name** : VOLLRATH

: 2018-04-26 **Receipt Date** 

2018-04-27 to 2018-05-08 **Test Date** 

: 2018-05-09 **Issue Date** 

FCC Part 18: 2017 **Standards** 

Conclusions **PASS** 

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

The EUT technically complies with the FCC requirements

**Test/Witness Engineer** 

**Engineer Supervisor** 

**Engineer Manager** 

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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# **Revision History**

Report No.	Version	Description	Issued Date
TB-FCC159572	Rev.01	Initial issue of report	2018-05-09
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# 1. General Information about EUT

## 1.1 Client Information

Applicant	1	The Vollrath Company, LLC
Address	:	1236 North 18th Street, Sheboygan, WI 53081
Manufacturer	5	Luxine (Xi'an) Electronics Co., Ltd.
Address	100	5th Building, No.29, 3rd Shanglinyuan Rd, Xi'an, Shaanxi, China

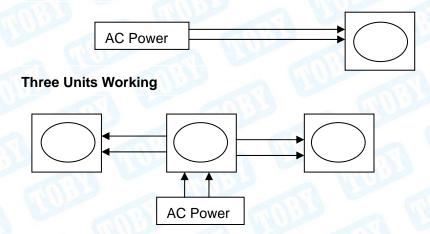
## 1.2 General Description of EUT (Equipment Under Test)

: 1	Induction Buffet Warmer
) <u>.</u>	5950275, 5950280, 59502DW, 59503LN75, 59503LN85, 59503LNDW, 59503SB75,59503SB85, 59503SBDW
	All these models are identical in the same PCB, layout and electrical circuit, the only difference is the color of the appearance and installation, drop-in model with "DW" suffix has one more control box.
¥	AC 120V, 60Hz
	One unit rated power: 310W Three units rated power: 3*310W
:	Please refer to the User's Manual
	:

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 report were 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.

#### A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.

#### 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: 2017							
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				

# 3. Test Equipment

Conducted Emissi	ion Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 20, 2017	Jul. 19, 2018
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 20, 2017	Jul. 19, 2018
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 20, 2017	Jul. 19, 2018
LISN	Rohde & Schwarz	ENV216	101131	Jul. 21, 2017	Jul. 20, 2018
Radiation Emissio	n Test			-	•
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 20, 2017	Jul. 19, 2018
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 20, 2017	Jul. 19, 2018
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.16, 2018	Mar. 15, 2019
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.16, 2018	Mar. 15, 2019
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.16, 2018	Mar. 15, 2019
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.16, 2018	Mar. 15, 2019
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 03, 2017	Jul. 02, 2018
Pre-amplifier	Sonoma	310N	185903	Mar.17, 2018	Mar. 16, 2019
Pre-amplifier	HP	8449B	3008A00849	Mar.17, 2018	Mar. 16, 2019
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.17, 2018	Mar. 16, 2019
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A



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## 4. Conducted Emission Test

#### 4.1 Test Standard and Limit

#### 4.1.1Test Standard

FCC Part 18.307(a)

#### 4.1.2 Test Limit

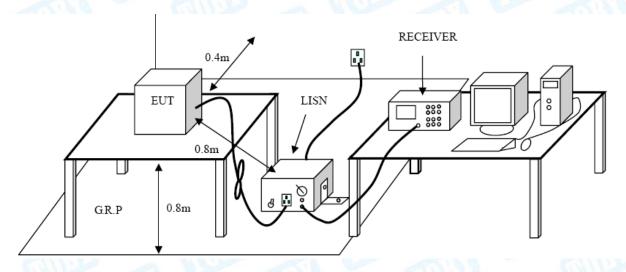
#### **Conducted Emission Test Limit**

Frequency	Maximum RF Line Voltage (dBμV)				
(MHz)	Quasi-peak Level	Average Leve			
0.009 ~ 0.05	110	E UDE			
0.05 ~ 0.15	90 ~ 80				
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.

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

### 4.2 Test Setup



#### 4.3 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.



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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.

#### 4.4 Deviation

The test is no deviation from the standard.

#### 4.5 Test Data

Please refer to the Attachment A.



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## 5. Radiated Emission Test

#### 5.1 Test Standard and Limit

5.1.1 Test Standard

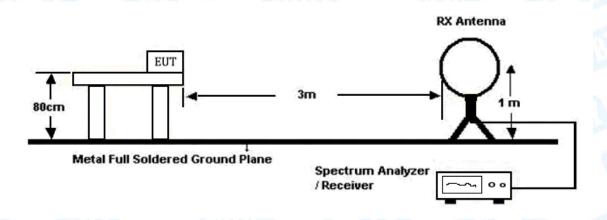
FCC Part 18.305

#### 5.1.2 Test Limit

#### Radiated Emission Limit (9kHz~30MHz)

Frequency (MHz)	Field Strength Limit (microvolt/meter)	Measurement Distance (meters)
0.009~30	1500	30
Note: Emission Level(dB	uV/m)=20log Emission Level(u\	//m)

### 5.2 Test Setup



#### 5.3 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.



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### 5.4 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).

#### 5.5 Test Data

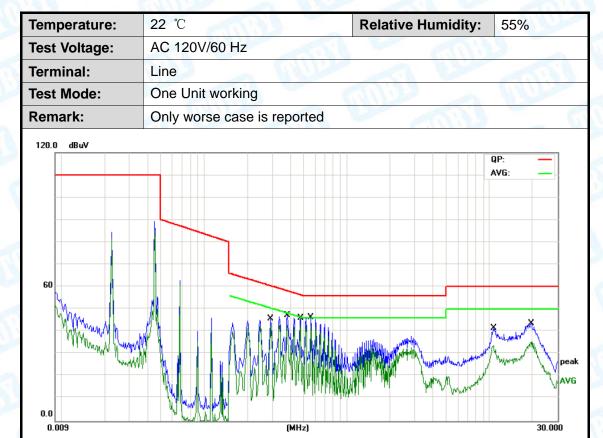
Please refer to the Attachment B.



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# **Attachment A-- Conducted Emission Test Data**



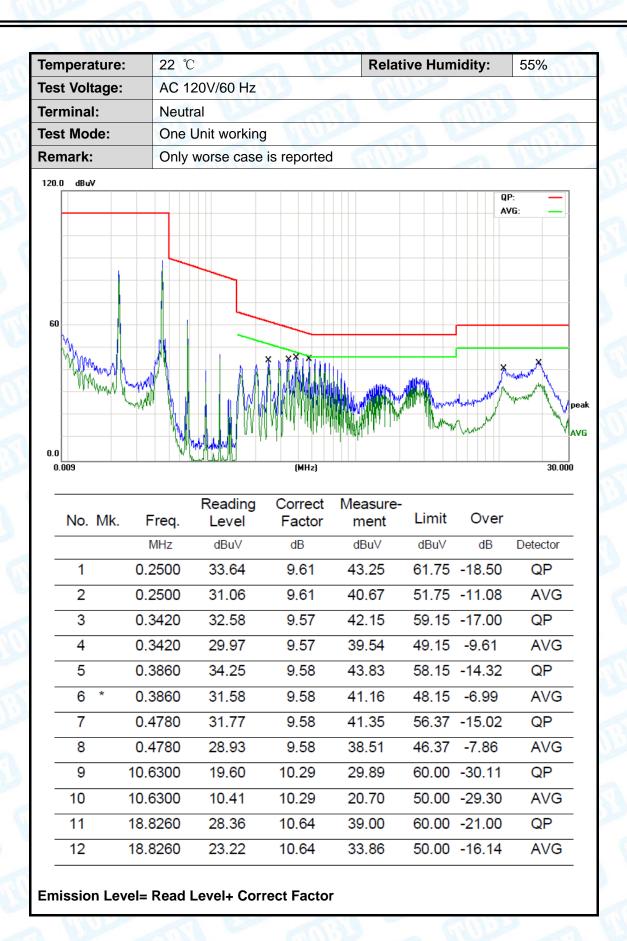
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector
1	0.2940	34.99	9.59	44.58	60.41	-15.83	QP
2	0.2940	32.48	9.59	42.07	50.41	-8.34	AVG
3	0.3820	36.32	9.60	45.92	58.23	-12.31	QP
4	0.3820	33.61	9.60	43.21	48.23	-5.02	AVG
5	0.4740	34.91	9.60	44.51	56.44	-11.93	QP
6	0.4740	32.25	9.60	41.85	46.44	-4.59	AVG
7	0.5620	35.22	9.60	44.82	56.00	-11.18	QP
8 *	0.5620	32.40	9.60	42.00	46.00	-4.00	AVG
9	10.7180	27.90	10.11	38.01	60.00	-21.99	QP
10	10.7180	22.16	10.11	32.27	50.00	-17.73	AVG
11	19.5300	29.08	10.52	39.60	60.00	-20.40	QP
12	19.5300	24.10	10.52	34.62	50.00	-15.38	AVG

**Emission Level= Read Level+ Correct Factor** 



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L	N/	1	D.	77
			D	1
	- 10			





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	erature:	22 °C		a W	Relat	ive Humid	lity: 5	55%
Test V	oltage:	AC 1	20V/60 Hz	33	CA.		-67	ABOVE
ermii	nal:	Line	A STATE		1	GU	1178	
Test N	lode:	Three	e Units worl	king				
Rema	rk:	Only	worse case	e is reported	THE		0	HAT
60	dBuV						QP:	
0.009				(MHz)				30.000
No.	Mk. Fr	eq.	Reading Level	Correct I Factor	Measure- ment	Limit	Over	
	M	Hz	dBuV	dB	dBu∀	dBuV	dB	Detector
1	0.1	580	47.58	9.58	57.16	65.56	-8.40	QP
2	0.1	580	42.18	9.58	51.76	55.56	-3.80	AVG
_					31.70	55.56	0.00	, , , ,
3	0.2	020	46.05	9.58	55.63		-7.89	QP
4		020	46.05 41.46	9.58 9.58		63.52		
	0.2				55.63	63.52 53.52	-7.89	QP
4	0.2	020	41.46	9.58	55.63 51.04	63.52 53.52 60.41	-7.89 -2.48	QP AVG
4 5	0.2 0.2	020 938	41.46 43.22	9.58 9.59	55.63 51.04 52.81	63.52 53.52 60.41 50.41	-7.89 -2.48 -7.60	QP AVG QP
4 5 6	0.2 0.2 0.2 0.3	020 938 938	41.46 43.22 37.58	9.58 9.59 9.59	55.63 51.04 52.81 47.17	63.52 53.52 60.41 50.41 59.25	-7.89 -2.48 -7.60 -3.24	QP AVG QP AVG
4 5 6 7 8	0.2 <sup>1</sup> 0.2 <sup>1</sup> 0.2 <sup>1</sup> 0.3	020 938 938 379 379	41.46 43.22 37.58 42.66 36.47	9.58 9.59 9.59 9.59 9.59	55.63 51.04 52.81 47.17 52.25 46.06	63.52 53.52 60.41 50.41 59.25 49.25	-7.89 -2.48 -7.60 -3.24 -7.00 -3.19	QP AVG QP AVG QP AVG
4 5 6 7 8 9	0.2 <sup>1</sup> 0.2 <sup>1</sup> 0.3 0.3 0.3	020 938 938 379 379 820	41.46 43.22 37.58 42.66 36.47 41.32	9.58 9.59 9.59 9.59 9.59 9.60	55.63 51.04 52.81 47.17 52.25 46.06 50.92	63.52 53.52 60.41 50.41 59.25 49.25 58.23	-7.89 -2.48 -7.60 -3.24 -7.00 -3.19 -7.31	QP AVG QP AVG QP AVG QP
4 5 6 7 8	0.2 <sup>1</sup> 0.2 <sup>1</sup> 0.3 0.3 0.3 0.3	020 938 938 379 379	41.46 43.22 37.58 42.66 36.47	9.58 9.59 9.59 9.59 9.59	55.63 51.04 52.81 47.17 52.25 46.06	63.52 53.52 60.41 50.41 59.25 49.25 58.23 48.23	-7.89 -2.48 -7.60 -3.24 -7.00 -3.19	QP AVG QP AVG QP AVG





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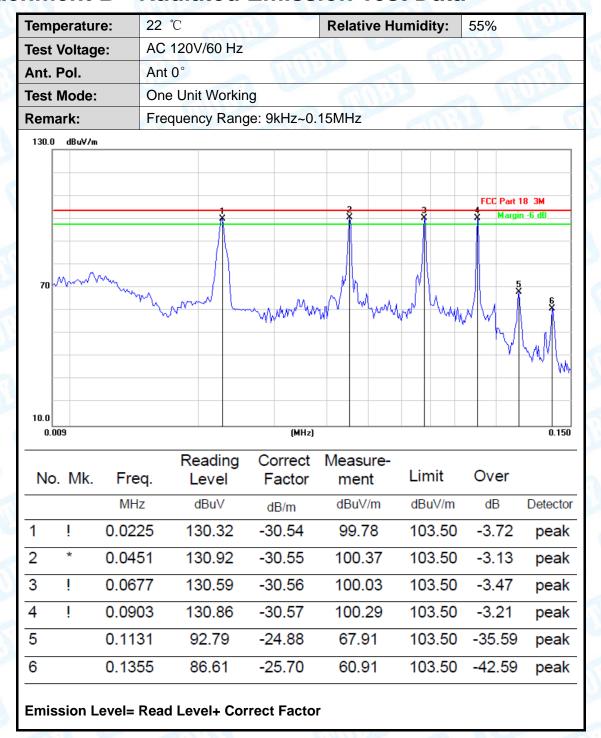
Temperatur	<b>e</b> : 22	$^{\circ}$		Relat	ive Humi	dity:	55%
Test Voltage	e: AC	120V/60 Hz	BU T		11	1	Alle
Terminal:	Net	utral		80	(1)	11/3/3	
Test Mode:		ee Units wor					
Remark:	Onl	ly worse cas	e is reported	MILL		0	100
0.0 0.009			( X X X X )		Marine de la companya	QP: AVG	30.000
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1580	50.42	9.58	60.00	65.56	-5.56	QP
2	0.1580	44.03	9.58	53.61	55.56	-1.95	AVG
3	0.2020	46.88	9.58	56.46	63.52	-7.06	QP
4	0.2020	41.47	9.58	51.05	53.52	-2.47	AVG
5	0.2900	42.99	9.59	52.58	60.52	-7.94	QP
6	0.2900	37.12	9.59	46.71	50.52	-3.81	AVG
7	0.3339	42.85	9.59	52.44	59.35	-6.91	QP
8	0.3339	36.80	9.59	46.39	49.35	-2.96	AVG
9	0.3780	42.54	9.60	52.14	58.32	-6.18	QP
10	0.3780	35.62	9.60	45.22	48.32	-3.10	AVG
11	0.4220	42.30	9.60	51.90	57.41	-5.51	QP
	0.4220						
12 *	0.4//0	36.04	9.60	45.64	47.41	-1.77	AVG





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# **Attachment B-- Radiated Emission Test Data**





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Temperature:	<b>22</b> ℃		Relat	ive Humid	ity: 55	5%	N. Carrie
Test Voltage:	AC 120\	//60 Hz	July 1		(IIII)	13.9	
Ant. Pol.	Ant 90°		Million		67		Time I
Test Mode:	One Uni	t Working	5	111000		N. H.H.	
Remark:	Frequen	cy Range: 9k	Hz~0.15MH	łz	1000	3	
130.0 dBuV/m							
						FCC Part 18 3	
		1 *	2 X	Š	\$	Margin -6	
		A				1	
70 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			<i>#</i>	N	\	5	
,	my Marin	~ my	MMMM	MAN	Mary		6 *
					1/4	"h~_/	
						- V	MA
							144
0.009			(MHz)				0.150
0.000			(1112)				0.130
	Re	eading Co	rrect Me	asure-			
No. Mk. F		•	actor m	nent L	.imit	Over	
N	lHz (	dBuV dE	3/m dE	BuV/m c	dBuV/m	dB	Detector
1 ! 0.0	224 1	28.82 -30	0.54 9	8.28 1	03.50	-5.22	peak
2 ! 0.0	451 1	28.92 -30	0.55 9	8.37 1	03.50	-5.13	peak
3 ! 0.0	676 1	29.59 -30	0.56 9	9.03 1	03.50	-4.47	peak
4 * 0.0	903 1	29.86 -30	).57 9	9.29 1	03.50	-4.21	peak
5 0.1	131 9	2.29 -24	1.88 6	7.41 1	03.50	-36.09	peak

**Emission Level= Read Level+ Correct Factor** 

85.09

-25.73

59.36

103.50 -44.14

0.1363

6

peak



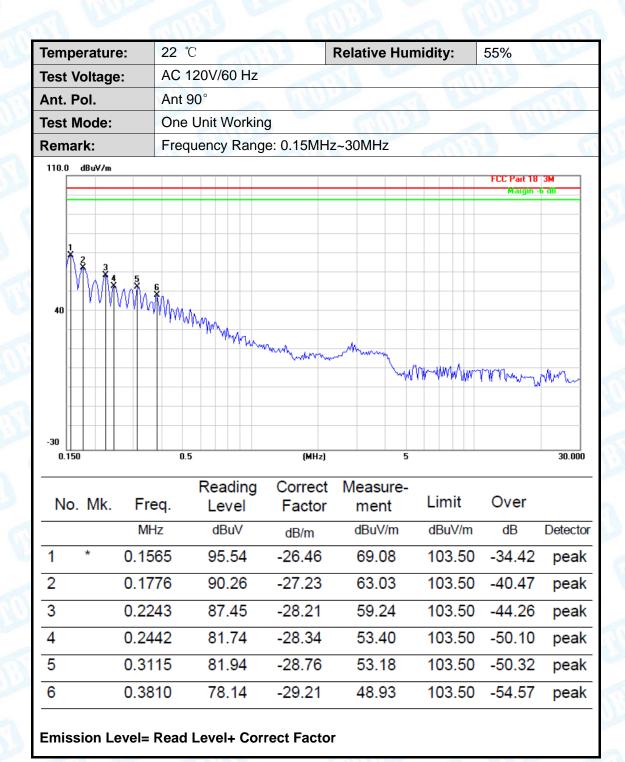
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Temperature:	22 ℃		Relative Hun	nidity:	55%	THE PERSON NAMED IN			
Test Voltage:	AC 120V/60 H	lz	2.6	10.0	133				
Ant. Pol.	Ant 0°	a am		1 62		THE PARTY			
Test Mode:	One Unit Working								
Remark:	Frequency Ra	ange: 0.15MH	z~30MHz		3				
110.0 dBuV/m					FCC D . 110				
					FCC Part 18 Margin				
40	My M								
-30					washing				
	0.5	(MHz)	5		~~~	30.00			
-30	0.5 Readin	(MHz)		Limit	Over				
-30 0.150	0.5 Readin eq. Level	(MHz)	Measure-						
-30 0.150 No. Mk. Fre	Readin Level	g Correct Factor	Measure- ment	Limit	Over	30.00			
No. Mk. Fre	Readin Level Z dBuV 65 96.54	g Correct Factor dB/m -26.46	Measure- ment dBuV/m	Limit dBuV/m	Over	Detector peal			
No. Mk. Fre	0.5  Readin Level Z dBuV 65 96.54 96 93.89	g Correct Factor dB/m -26.46	Measure- ment dBuV/m 70.08	Limit dBuV/m 103.50	Over dB -33.42	30.00			
No. Mk. Fre MH  1 * 0.15  2 0.17  3 0.22	0.5  Readin Level  2 dBuV  65 96.54  96 93.89  44 89.95	g Correct Factor dB/m -26.46 -27.31 -28.21	Measure- ment dBuV/m 70.08 66.58	Limit dBuV/m 103.50 103.50	Over  dB  -33.42  -36.92	Detector peal peal peal			
No. Mk. Fre MH  1 * 0.15  2 0.17  3 0.22	0.5  Readin Level  2 dBuV  65 96.54  96 93.89  44 89.95  68 85.41	(MHz) g Correct Factor dB/m -26.46 -27.31 -28.21 -28.35	Measure- ment dBuV/m 70.08 66.58 61.74	Limit dBuV/m 103.50 103.50	Over dB -33.42 -36.92 -41.76	Detector peak			



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Temperature:	<b>22</b> °C	Relative Humidity:	55%		
Гest Voltage:	AC 120V/60 Hz		7:39		
Ant. Pol.	Ant 0°				
Test Mode:	Three Units Working	CONTRACT OF THE PARTY OF THE PA	WALLEY OF THE PARTY OF THE PART		
Remark:	Frequency Range: 9kH	z~0.15MHz	13		
140.0 dBuV/m					
	1 2 * \$	3 4	FCC Part 18 3M Margin -6 dB		
70	www.	WANTER THE RESIDENCE OF THE PARTY OF THE PAR	5		

No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	į	0.0229	130.54	-30.54	100.00	103.50	-3.50	peak
2	į	0.0244	129.89	-30.54	99.35	103.50	-4.15	peak
3	į	0.0454	130.88	-30.55	100.33	103.50	-3.17	peak
4	*	0.0681	130.94	-30.56	100.38	103.50	-3.12	peak
5	į	0.0913	129.73	-30.57	99.16	103.50	-4.34	peak
6		0.1145	100.60	-24.93	75.67	103.50	-27.83	peak

(MHz)

Emission Level= Read Level+ Correct Factor

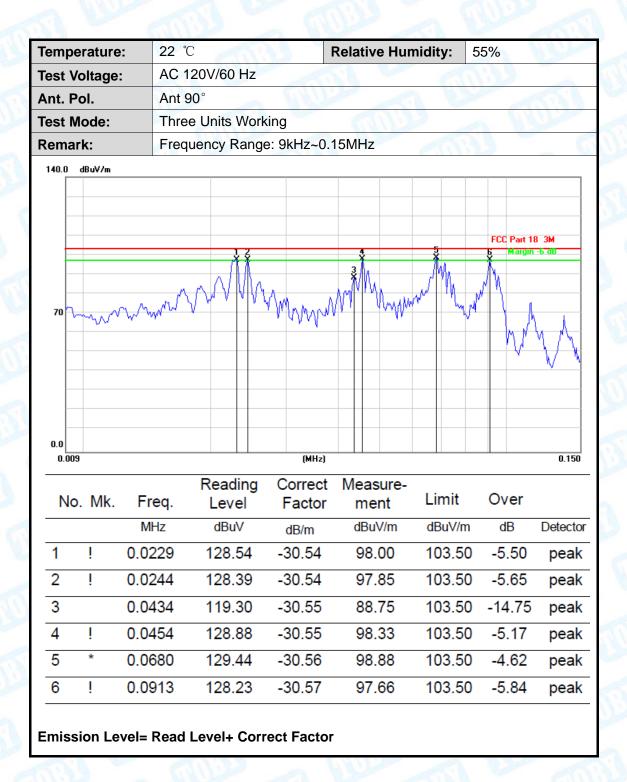
0.009

0.150



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Temperatur	e: 2:	<b>2</b> ℃				Relativ	e Hun	nidity:	5	5%	
Test Voltage	e: A	C 120	V/60	Hz		MA		e	370	189	
Ant. Pol.	А	nt 0°			UM			N N	33		
Test Mode:	Т	hree U	Inits	Work	king		1193	3		W	1115
Remark:	F	requer	ncy R	Range	e: 0.15MH	z~30Mł	Ηz	1	111	3	
110.0 dBuV/m											
										FCC Part 1	
										Margin	-6 dB
1 2											
100	3										
11.11	AMANA"	4.0									
	. 144////	AMANA MANA									
40		17 1/4	Mhym.								
			T W	J. N							
			"	Mrsu	Aha	4					
				Mary	Mary Land M.	<b>*</b>					
				Mr.	Many Myllim	WM N	4		5		
				MV.	mmmmmmm	w. M.	w may		5 X	6	
				71	Manyana	w <sup>m</sup>	Mary har	.h.w	5 1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mmyh
				MAN MAN	Many Marin	w. ************************************	Mary Mary	.h.h.w	5 1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mmym
					mmympm	<b>***</b>	Mary has	in in	5 N	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mmyh
				Why.	Mary My Mary	<b>*</b>	May have	MAN	5 1 1 1 1 1 1 1	~~~~^^	<b>\</b> \.
-30						****	Mary har	mm	The state of the s	~~~~^ <sup>5</sup> / <sub>M</sub>	
		0.5			MMZ)	<b>***</b>	5	mm	5 V	~~~~~~~^^M	30.000
-30		0.5			(MHz)			i i	\$ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	~/ <sub>~</sub>	
-30 0.150		0.5	Read	ing	(MHz)	Meas	sure-		TV A		
-30		0.5		ing	(MHz)	Meas	sure-	Limi	TV A		
-30 0.150		0.5	Read	ling	(MHz)	Meas	sure-		t		
-30 0.150	Freq	0.5 R	Read	ling el	(MHz) Correct Factor	Mea: me	sure- ent	Limi	t //m	Over	30.000
-30 0.150 No. Mk.	Freq	0.5 R	Read Leve	ling el V	(MHz) Correct Factor	Meas me dBu	sure- ent	Limi	t //m	Over dB	Detector
-30 0.150 No. Mk.	Freq MHz 0.1582	0.5 F.	Read Leve	ling el V	Correct Factor dB/m -26.52	Meas me dBu 70	sure- ent V/m	Limi dBu\	t //m .50	Over dB -33.02	Detector 2 peak
-30 0.150  No. Mk.	Freq MHz 0.1582 0.2040	0.5 F.	Read Leve dBu' 97.0	ling el V 00	Correct Factor dB/m -26.52 -28.08	Mea: me dBu 70 69 64	sure- ent V/m .48	Limi dBu\ 103.	tt .50 .50	Over  dB  -33.02  -34.44	Detector 2 peak 4 peak 2 peak

**Emission Level= Read Level+ Correct Factor** 

47.84

42.77

-31.15

-31.33

16.69

11.44

8.5917

17.2908

6

peak

peak

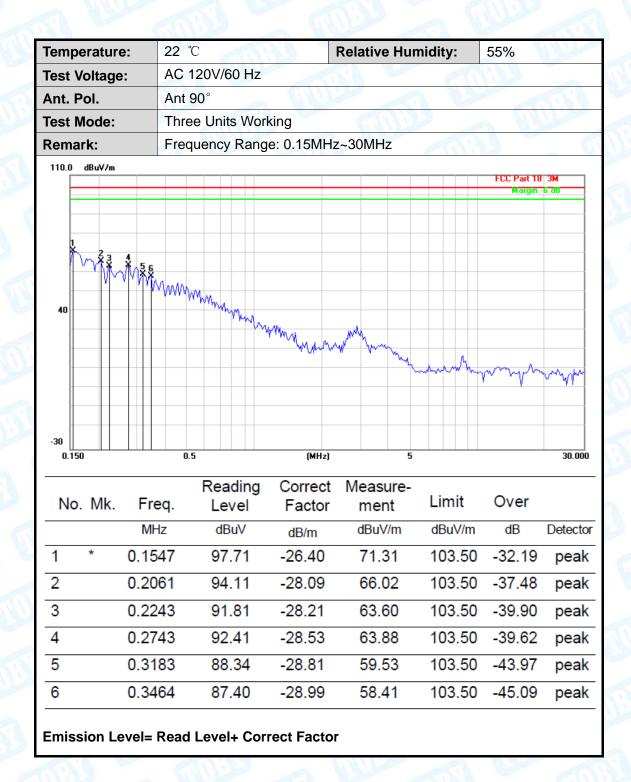
103.50 -86.81

-92.06

103.50



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