

# Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC172101

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# FCC Radio Test Report FCC ID: 2AWVU-200331

# **Original Grant**

Report No. : TB-FCC172101

Applicant : Fortyfour group LLC

**Equipment Under Test (EUT)** 

**EUT Name** : OCTOFORCE 2.0

Model No. : OCTOFORCE 2.0

Serial Model No. : ----

Brand Name : ORIGAUDIO

**Receipt Date** : 2020-03-25

**Test Date** : 2020-03-26 to 2020-07-30

**Issue Date** : 2020-07-30

Standards : FCC Part 15, Subpart C(15.209)

Test Method : ANSI C63.10: 2013

Conclusions : PASS

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

Test/Witness Engineer :

Engineer Supervisor : WW SV

Engineer Manager :

Jack Deng Ivan Su Ray Lai

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-FCC172101	Rev.01	Initial issue of report	2020-07-30
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# 1. General Information about EUT

# 1.1 Client Information

Applicant	: (	Fortyfour group LLC	
Address	):	600 San Ramon Valley Blvd Suite 200 Danville, CA 94526	
Manufacturer		Load Limited	
Address : 3rd Floor, Mansion 48, Tung Street, Sheung Wan, Hongkong		3rd Floor, Mansion 48, Tung Street, Sheung Wan, Hongkong	

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

EUT Name	- (	OCTOFORCE 2.0			
Models No.	:	OCTOFORCE 2.0			
Model Difference	÷	and and			
4000	M	Operation Frequency:	110KHz-205KHz		
Product Description	:	Modulation Type:	MSK		
Description		Antenna:	Coil Antenna		
Power Supply		Input: MICRO USB INP TYPE-C INPUT: Output: USB-A OUTPU TYPE-C OUTF WIRELESS OF DC 3.7V by two 4000m.	5V/2.4A JT:5V/2.4A PUT:5V/2.4A UTPUT:5V/1A		
<b>Charging Distance</b>	Charging Distance : ≤8mm				
Software Version		N/A			
Hardware Version : N/A					
Connecting I/O Port(S)		: Please refer to the User's Manual			

#### Note:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

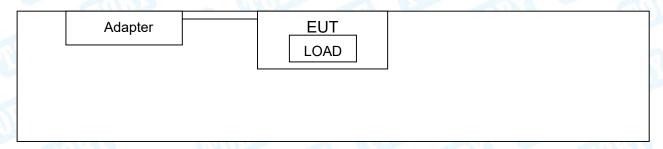
#### (2) Channel List:

Low Frequency(KHz)	Middle Frequency(KHz)	High Frequency(KHz)
110	129	148
Note: Operation Frequency=110+1*k,	k∈ (0,1,2,3,95)	Will Discourse



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# 1.3 Block Diagram Showing the Configuration of System Tested Charging + TX Mode



#### 1.4 Description of Support Units

Equipment Information								
Name Model S/N Manufacturer Used " √ "								
Adapter	BSY02D050200V	W497	BSY	<b>√</b>				
	Cable Information							
Number	Number Shielded Type Ferrite Core Length Note							
1	NO	NO	1m					

### 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 following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

Pretest Mode					
Final Test Mode Description					
Mode 1	TX Mode(Low CH)				
Mode 2 TX Mode(Middle CH)					
Mode 3 TX Mode(High CH)					
Mode 4 Keeping TX Mode					
For	Conducted Test				
Final Test Mode Description					
Mode 4 Keeping TX Mode					



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TOTAL TO THE STATE OF THE STATE					
For Radiated Test					
Final Test Mode Description					
Mode 4 Keeping TX Mode					
For Bandwidth Test					
Final Test Mode Description					
Mode 2	TX Mode				

#### Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

TX Mode: Transmitting mode.

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a portable unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

#### 1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF setting.

Test Software Version	N/A
Frequency	110-148KHz



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#### 1.7 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U <sub>Lab</sub> )
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	±3.42 dB ±3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB

#### 1.8 Test Facility

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. FCC Accredited Test Site Number: 854351.

#### IC Registration No.: (11950A)

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



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# 2. Test Summary

FCC Part 15 Subpart C(15.209)						
Standard Section	Test Item	Judgment	Remark			
15.203	Antenna Requirement	PASS	N/A			
15.207(a)	Conducted Emission	PASS	N/A			
15.209(a)(f)	Radiated emissions	PASS	N/A			
15.215	Bandwidth	PASS	N/A			



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# 3. Test Equipment

Conducted Emiss	ion Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 06, 2020	Jul. 05, 2021
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 06, 2020	Jul. 05, 2021
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 06, 2020	Jul. 05, 2021
LISN	Rohde & Schwarz	ENV216	101131	Jul. 06, 2020	Jul. 05, 2021
Radiation Emission	n Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 06, 2020	Jul. 05, 2021
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jul. 06, 2020	Jul. 05, 2021
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.01, 2020	Feb. 28, 2021
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.01, 2020	Feb. 28, 2021
Horn Antenna	ETS-LINDGREN	BBHA 9170	BBHA9170582	Aug.07, 2019	Aug. 06, 2020
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 06, 2020	Jul. 05, 2021
Pre-amplifier	Sonoma	310N	185903	Mar.01, 2020	Feb. 28, 2021
Pre-amplifier	HP	8449B	3008A00849	Mar.01, 2020	Feb. 28, 2021
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.01, 2020	Feb. 28, 2021
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conduct	ed Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 06, 2020	Jul. 05, 2021
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 16, 2019	Sep. 15, 2020
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 16, 2019	Sep. 15, 2020
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 16, 2019	Sep. 15, 2020
a W	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Sep. 16, 2019	Sep. 15, 2020
DE Dower Correct	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 16, 2019	Sep. 15, 2020
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 16, 2019	Sep. 15, 2020



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# 4. Conducted Emission Test

#### 4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

#### 4.1.2 Test Limit

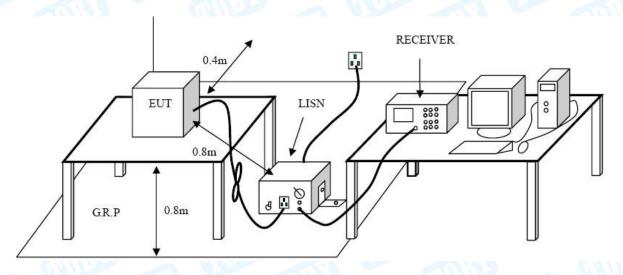
#### **Conducted Emission Test Limit**

Evanuana	Maximum RF Line Voltage (dBμV)				
Frequency	Quasi-peak Level	Average Level			
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

#### Notes:

- (1) \*Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

#### 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.

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.



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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 nearest part of EUT chassis.

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

#### 4.4 EUT Operating Mode

Please refer to the description of test mode.

#### 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 15.209(a)(f)

5.1.2 Test Limit

#### Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

#### Radiated Emission Limit (Above 1000MHz)

Frequency	Distance of 3m (dBuV/m)				
(MHz)	Peak	Average			
Above 1000	74	54			

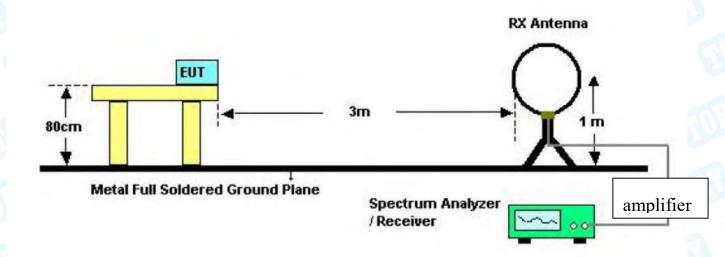
#### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

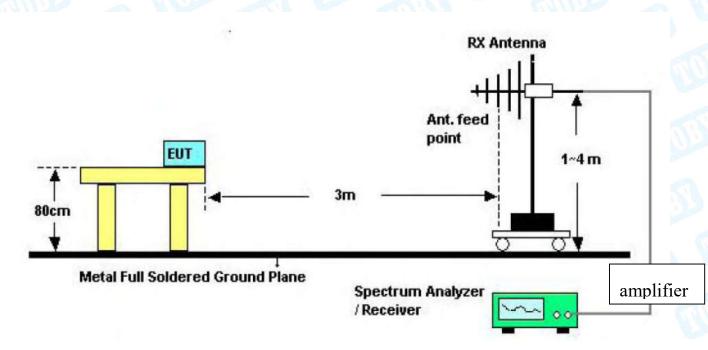


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# 5.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



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#### 5.3 Test Procedure

(1) Measurements at frequency 9KHz~30MHz and Below 1GHz. The EUT was placed on a rotating 0.8m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The table was rotated 360 degrees to determine the position of the highest radiation.

- (2) 9KHz~30MHz the test antenna 1m away from the ground, Both 0° and 90° antenna are set to make measurement.
  - Below 1GHz the test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (7) For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW= 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW= 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple

(8) For the actual test configuration, please see the test setup photo.

### 5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

#### 5.5 Test Data

Please refer to the Attachment B.



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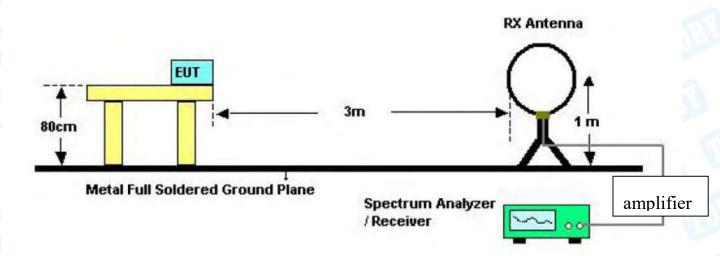
## 6. Bandwidth Measurement

#### 6.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15.215

#### 6.2 Test Setup



#### 6.3 Test Procedure

- 1. The transmitter shall be operated at its maximum carrier power measured under normal test conditions;
- 2. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- 3. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

### 6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

#### 6.5 Test Data

Please refer to the Attachment C.



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# 7. Antenna Requirement

### 7.1 Standard Requirement

7.1.1 Standard FCC Part 15.203

#### 7.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 7.2 Antenna Connected Construction

The antenna is Coil Antenna, and the antenna connector is de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

#### 7.3 Result

The EUT antenna is a Coil Antenna. It complies with the standard requirement.

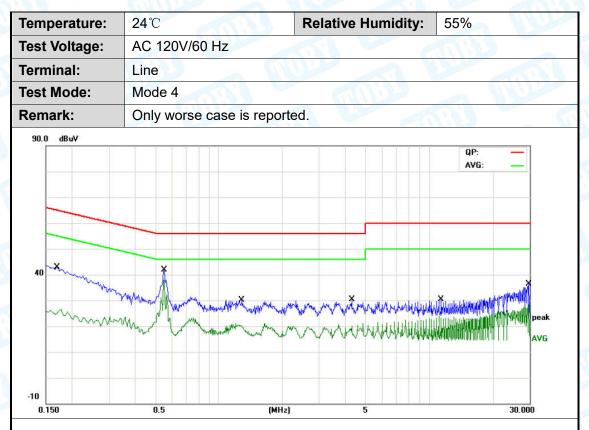
Antenna Type	
☑Permanent attached antenna	
☐Unique connector antenna	
☐Professional installation antenna	ann's





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



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1700	28.46	9.79	38.25	64.96	-26.71	QP
2		0.1700	13.68	9.79	23.47	54.96	-31.49	AVG
3		0.5500	29.83	9.95	39.78	56.00	-16.22	QP
4	*	0.5500	26.59	9.95	36.54	46.00	-9.46	AVG
5		1.2860	14.23	9.71	23.94	56.00	-32.06	QP
6		1.2860	9.79	9.71	19.50	46.00	-26.50	AVG
7		4.2780	14.91	9.85	24.76	56.00	-31.24	QP
8		4.2780	10.76	9.85	20.61	46.00	-25.39	AVG
9		11.4020	16.30	9.82	26.12	60.00	-33.88	QP
10		11.4020	13.27	9.82	23.09	50.00	-26.91	AVG
11		29.7900	23.85	9.91	33.76	60.00	-26.24	QP
12		29.7900	17.53	9.91	27.44	50.00	-22.56	AVG



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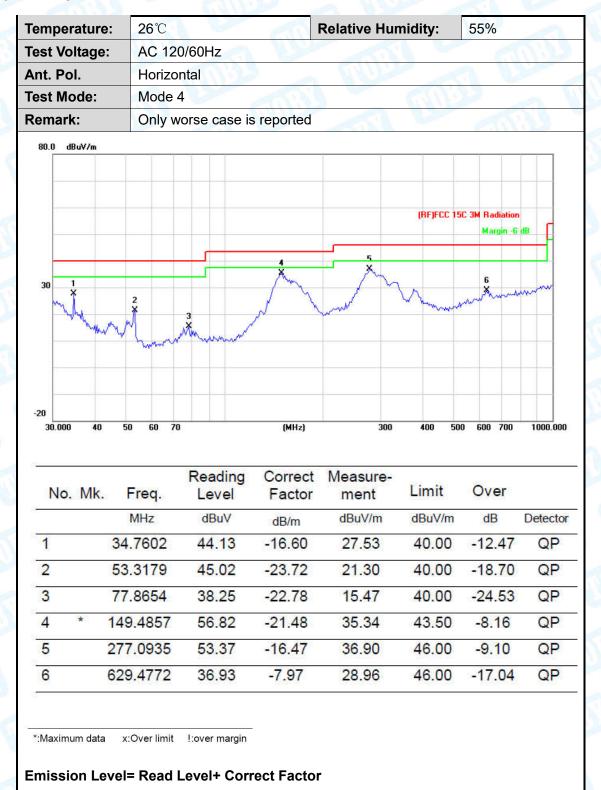
emperatur	e: 24°C			Relative Hu	ımidity:	55%	
est Voltage	e: AC 1	20V/60 Hz	19		1) led		AMA
erminal:	Neutr	al	100		(1)	UB1	
Test Mode:	Mode	4	DATE:		1		
Remark:	Only	worse case	is reported	MILL	2	1 C	MA STATE OF THE PARTY OF THE PA
40 X	many my my	Maringraphia	hou to faith our for the and	ya makini ma	as to littelly	QP: AVG:	
-10 0.150 No. Mk.	Freq.	Reading Level	(MHz)  Correct Factor	Measure- ment	Limit	Over	30.000
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1580	29.93	9.61	39.54	65.56	-26.02	QP
2	0.1580	14.19	9.61	23.80	55.56	-31.76	AVG
3	0.5460	28.57	9.78	38.35	56.00	-17.65	QP
4 *	0.5460	20.38	9.78	30.16	46.00	-15.84	AVG
5	1.0740	13.51	9.62	23.13	56.00	-32.87	QP
6	1.0740	6.26	9.62	15.88	46.00	-30.12	AVG
7	3.7060	16.30	9.83	26.13		-29.87	QP
<u>8</u> 1	3.7060	10.81	9.83	20.64	5-1-1-03-1-1	-25.36	AVG
8	0.1000	10.01	0.00	27.77	thristeric.	-32.23	QP
8	0.0700	17.01	0.00		00.00	-02.20	QP
9	9.9780	17.91	9.86	I POPURE NAMES AND I	CONTRACTOR STORY	20.20	11/0
9	9.9780	13.75	9.86	23.61	50.00	-26.39	AVG
9	With the period and t	District State of the Control of the	STATISTICS.	I POPURE NAMES AND I	50.00	-26.39 -23.30	AVG QP



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

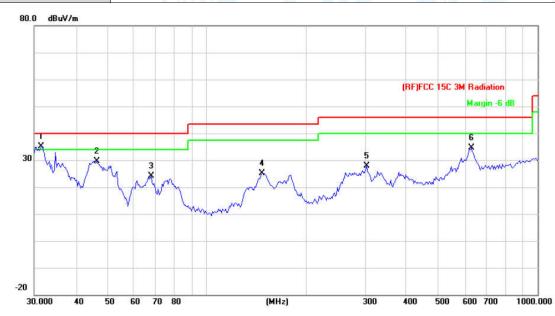
#### 30MHz~1GHz





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1	Temperature:	25℃	Relative Humidity:	55%				
	Test Voltage:	AC 120/60Hz	TUU					
	Ant. Pol.	Vertical						
Ą	Test Mode:	Mode 4	ode 4					
ø	Remark:	Only worse case is reporte	ed (N)					



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	31.5095	49.23	-14.15	35.08	40.00	-4.92	QP
2		46.3402	51.81	-22.12	29.69	40.00	-10.31	QP
3		67.6751	47.84	-23.77	24.07	40.00	-15.93	QP
4	ž	146.3735	46.94	-21.80	25.14	43.50	-18.36	QP
5		303.5437	43.87	-15.87	28.00	46.00	-18.00	QP
6		629.4772	42.59	-7.97	34.62	46.00	-11.38	QP

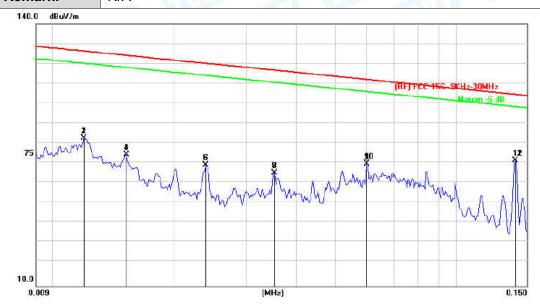
<sup>\*:</sup>Maximum data x:Over limit !:over margin



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#### 9KMz-30MHz

Т	emperature:	26℃	Relative Humidity:	55%
Т	est Voltage:	AC 120/60Hz		
A	nt. Pol.	Ant. 0°	11:32	The same of the sa
Т	est Mode:	Mode 4		(C)
R	lemark:	N/A		

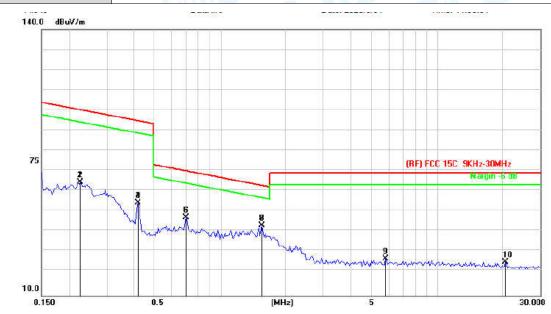


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		0.0119	93.64	-10.46	83.18	126.37	-43.19	peak
2		0.0119	93.64	-10.46	83.18	126.37	-43.19	AVG
3		0.0151	85.65	-10.55	75.10	124.30	-49.20	peak
4		0.0151	85.65	-10.55	75.10	124.30	-49.20	AVG
5		0.0238	80.70	-10.79	69.91	120.34	-50.43	peak
6		0.0238	80.70	-10.79	69.91	120.34	-50.43	AVG
7		0.0352	77.04	-10.94	66.10	116.93	-50.83	AVG
8		0.0353	77.04	-10.94	66.10	116.90	-50.80	peak
9		0.0599	81.36	-10.74	70.62	112.30	-41.68	peak
10		0.0599	81.36	-10.74	70.62	112.30	-41.68	AVG
11		0.1401	79.13	-6.74	72.39	104.90	-32.51	AVG
12	*	0.1402	79.14	-6.75	72.39	104.90	-32.51	peak



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ń	Temperature:	26℃	Relative Humidity:	55%
Ì	Test Voltage:	AC 120/60Hz	THE PARTY OF THE P	
	Ant. Pol.	Ant. 0°		
K	Test Mode:	Mode 4		
	Remark:	N/A	WIII)	A HILL

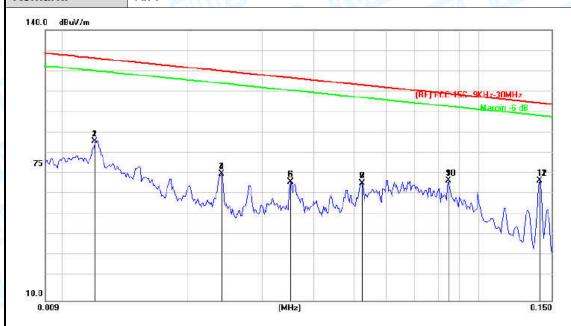


Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
	0.2268	74.46	-8.97	65.49	100.71	-35.22	peak
	0.2268	74.46	-8.97	65.49	100.71	-35.22	AVG
	0.4193	65.64	-10.42	55.22	95.36	-40.14	peak
	0.4193	65.64	-10.42	55.22	95.36	-40.14	AVG
	0.6973	59.32	-11.11	48.21	70.89	-22.68	peak
	0.6973	59.32	-11.11	48.21	70.89	-22.68	AVG
*	1.5601	55.50	-11.14	44.36	63.78	-19.42	peak
	1.5601	55.50	-11.14	44.36	63.78	-19.42	AVG
	5.8049	39.37	-11.17	28.20	70.00	-41.80	peak
	20.7038	38.35	-11.95	26.40	70.00	-43.60	peak
	Mk.	MHz 0.2268 0.2268 0.4193 0.4193 0.6973 0.6973 * 1.5601 1.5601 5.8049	Mk. Freq. Level  MHz dBuV  0.2268 74.46  0.2268 74.46  0.4193 65.64  0.4193 65.64  0.6973 59.32  * 1.5601 55.50  1.5601 55.50  5.8049 39.37	Mk.         Freq.         Level         Factor           MHz         dBuV         dB/m           0.2268         74.46         -8.97           0.2268         74.46         -8.97           0.4193         65.64         -10.42           0.6973         59.32         -11.11           0.6973         59.32         -11.11           *         1.5601         55.50         -11.14           1.5601         55.50         -11.14           5.8049         39.37         -11.17	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dBuV         dBuV/m           0.2268         74.46         -8.97         65.49           0.2268         74.46         -8.97         65.49           0.4193         65.64         -10.42         55.22           0.4193         65.64         -10.42         55.22           0.6973         59.32         -11.11         48.21           0.6973         59.32         -11.11         48.21           *         1.5601         55.50         -11.14         44.36           1.5601         55.50         -11.14         44.36           5.8049         39.37         -11.17         28.20	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dBuV         dBuV/m         dBuV/m         dBuV/m           0.2268         74.46         -8.97         65.49         100.71           0.2268         74.46         -8.97         65.49         100.71           0.4193         65.64         -10.42         55.22         95.36           0.4193         65.64         -10.42         55.22         95.36           0.6973         59.32         -11.11         48.21         70.89           *         1.5601         55.50         -11.14         44.36         63.78           1.5601         55.50         -11.14         44.36         63.78           5.8049         39.37         -11.17         28.20         70.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dBuV         dBuV/m         dBuV/m         dB           0.2268         74.46         -8.97         65.49         100.71         -35.22           0.2268         74.46         -8.97         65.49         100.71         -35.22           0.4193         65.64         -10.42         55.22         95.36         -40.14           0.4193         65.64         -10.42         55.22         95.36         -40.14           0.6973         59.32         -11.11         48.21         70.89         -22.68           *         1.5601         55.50         -11.14         44.36         63.78         -19.42           1.5601         55.50         -11.14         44.36         63.78         -19.42           5.8049         39.37         -11.17         28.20         70.00         -41.80



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			A I I I
Temperature:	26℃	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz	THE PARTY OF THE P	
Ant. Pol.	Ant. 90°	The state of the s	
Test Mode:	Mode 4		
Remark:	N/A		A HILLS

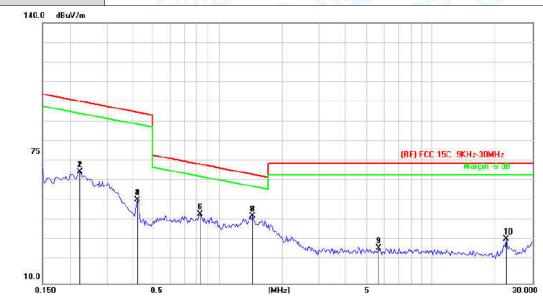


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	0.0119	97.07	-10.46	86.61	126.37	-39.76	peak
2	0.0119	97.07	-10.46	86.61	126.37	-39.76	AVG
3	0.0240	81.87	-10.79	71.08	120.26	-49.18	peak
4	0.0240	81.87	-10.79	71.08	120.26	-49.18	AVG
5	0.0350	78.03	-10.94	67.09	116.98	-49.89	AVG
6	0.0351	78.03	-10.94	67.09	116.95	-49.86	peak
7	0.0524	77.22	-10.87	66.35	113.46	-47.11	peak
8	0.0524	77.22	-10.87	66.35	113.46	-47.11	AVG
9	0.0844	78.35	-10.68	67.67	109.31	-41.64	peak
10	0.0844	78.35	-10.68	67.67	109.31	-41.64	AVG
11	0.1401	74.55	-6.74	67.81	104.90	-37.09	AVG
12 *	0.1402	74.56	-6.75	67.81	104.90	-37.09	peak



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ń	Temperature:	26℃	Relative Humidity:	55%
Ì	Test Voltage:	AC 120/60Hz	THU !	
	Ant. Pol.	Ant. 90°		
K	Test Mode:	Mode 4		
	Remark:	N/A	WIII)	A HILL

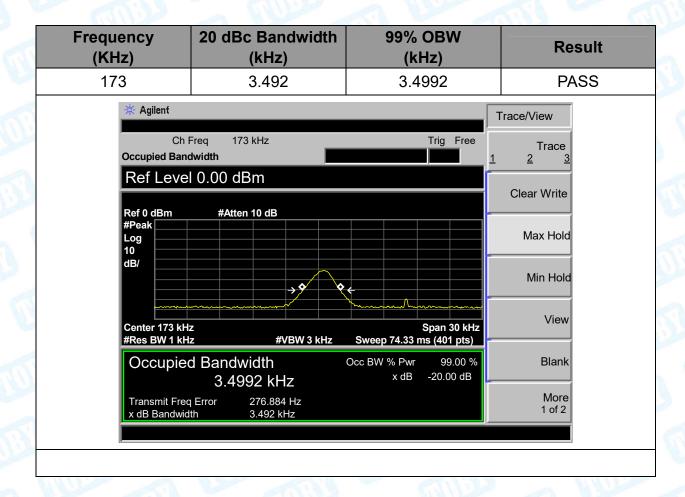


Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
	0.2243	74.65	-8.94	65.71	100.80	-35.09	AVG
	0.2244	74.65	-8.94	65.71	100.80	-35.09	peak
	0.4193	62.14	-10.42	51.72	95.36	-43.64	peak
	0.4193	62.14	-10.42	51.72	95.36	-43.64	AVG
	0.8260	55.79	-11.19	44.60	69.39	-24.79	AVG
	0.8261	55.79	-11.19	44.60	69.39	-24.79	peak
	1.4484	54.86	-11.16	43.70	64.44	-20.74	AVG
*	1.4485	54.86	-11.16	43.70	64.44	-20.74	peak
	5.6833	38.76	-11.17	27.59	70.00	-42.41	peak
	22.5353	44.27	-12.12	32.15	70.00	-37.85	peak
		MHz 0.2243 0.2244 0.4193 0.4193 0.8260 0.8261 1.4484 * 1.4485 5.6833	Mk. Freq. Level  MHz dBuV  0.2243 74.65  0.2244 74.65  0.4193 62.14  0.4193 62.14  0.8260 55.79  0.8261 55.79  1.4484 54.86  * 1.4485 54.86  5.6833 38.76	Mk.         Freq.         Level         Factor           MHz         dBuV         dB/m           0.2243         74.65         -8.94           0.2244         74.65         -8.94           0.4193         62.14         -10.42           0.8260         55.79         -11.19           0.8261         55.79         -11.19           1.4484         54.86         -11.16           *         1.4485         54.86         -11.16           5.6833         38.76         -11.17	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB/m         dBuV/m           0.2243         74.65         -8.94         65.71           0.2244         74.65         -8.94         65.71           0.4193         62.14         -10.42         51.72           0.4193         62.14         -10.42         51.72           0.8260         55.79         -11.19         44.60           0.8261         55.79         -11.19         44.60           1.4484         54.86         -11.16         43.70           *         1.4485         54.86         -11.16         43.70           5.6833         38.76         -11.17         27.59	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dBuV         dBuV/m         dBuV/m         dBuV/m           0.2243         74.65         -8.94         65.71         100.80           0.2244         74.65         -8.94         65.71         100.80           0.4193         62.14         -10.42         51.72         95.36           0.8260         55.79         -11.19         44.60         69.39           0.8261         55.79         -11.19         44.60         69.39           1.4484         54.86         -11.16         43.70         64.44           *         1.4485         54.86         -11.16         43.70         64.44           5.6833         38.76         -11.17         27.59         70.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dBuV         dBuV/m         dBuV/m         dB           0.2243         74.65         -8.94         65.71         100.80         -35.09           0.2244         74.65         -8.94         65.71         100.80         -35.09           0.4193         62.14         -10.42         51.72         95.36         -43.64           0.8260         55.79         -11.19         44.60         69.39         -24.79           0.8261         55.79         -11.19         44.60         69.39         -24.79           1.4484         54.86         -11.16         43.70         64.44         -20.74           *         1.4485         54.86         -11.16         43.70         64.44         -20.74           5.6833         38.76         -11.17         27.59         70.00         -42.41



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# **Attachment C-- Bandwidth Measurement Data**



----END OF REPORT-----