

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC176477 1 of 30 Page:

FCC Radio Test Report FCC ID: 2AXWC-FC3680

Report No. TB-FCC176477

SHENZHEN NICEFEEL MEDICAL DEVICE TECHNOLOGY

Applicant CO.,LTD

Equipment Under Test (EUT)

EUT Name : Oral Irrigator

Model No. : FC3680

Series Model No. : FC3681

Brand Name : Nicefeel

: TBBJ-20201010-01-1#& TBBJ-20201010-01-1# Sample ID

Receipt Date : 2020-10-10

: 2020-10-10 to 2020-10-28 **Test Date**

Issue Date : 2020-10-28

: FCC Part 15, Subpart C (15.231(a)) **Standards**

: ANSI C63.10:2013 **Test Method**

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-FCC176477	Rev.01	Initial issue of report	2020-10-28
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1033	THE WILL	MODE MODE	(10)
	4011		(1) I
	110		



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1. General Information about EUT

1.1 Client Information

Applicant	5	SHENZHEN NICEFEEL MEDICAL DEVICE TECHNOLOGY
Арриосии	V .	CO.,LTD
		30 Bulding Longwangmiao Industrial Park, Baishixia Community,
Address		Fuyong Street, Baoan District, Shenzhen City, Guangdong 518103
		China
Manufacturer	_	SHENZHEN NICEFEEL MEDICAL DEVICE TECHNOLOGY
Manufacturer		CO.,LTD
N		30 Bulding Longwangmiao Industrial Park, Baishixia Community,
Address		Fuyong Street, Baoan District, Shenzhen City, Guangdong 518103
	1	China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	1	Oral Irrigator		
Models No.		FC3680, FC3681		
Model Difference			identical in the same PCB, layout and nly difference is way to install.	
Product Description		Operation Frequency:	433.92 MHz	
		Output Power:	72.72 dBuV/m (PK Max.) 64.01 dBuV/m (AV Max.)	
WURT?		Antenna Gain:	PCB Antenna(0 dBi)	
		Modulation Type:	ASK	
Power Rating		Input: AC100-240V 50/ Output:12V1.5A	60Hz 0.6A	
Software Version		V05		
Hardware Version	15	V04		
Remark	:	The antenna gain provide conduction test provide	ided by the applicant, the verified for the RF ed by TOBY test lab.	

Note:

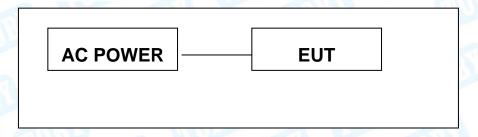
(1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



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1.3 Block Diagram Showing the Configuration of System Tested

TX Mode



1.4 Description of Support Units

The EUT has been test as an independent unit.

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.

Test Items	Note
Conducted Emission	Normal Mode
Radiated Emission	Continuously transmitting
Bandwidth	Continuously transmitting
Duty Cycle	Continuously transmitting
Release Time	Normal Mode

Note:

- (1) During the testing procedure, the continuously transmitting mode was programmed by the customer.
- (2) The EUT is considered a Mobile unit, and it was pre-tested on the positioned of each 3 axis: X axis, Y axis and Z axis. The worst case was found positioned on Z-plane. There for only the test data of this Z-plane were used for radiated emission measurement test.



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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 transmitting mode.

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 _{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	±3.50 dB ±3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.20 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB



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1.8 Test Facility

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: 2017 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: 2017 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-1)

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

2. Test Summary

	FCC Part 15 Subpart (15.231(a))					
Standard Section FCC	Test Item	Test Sample(s)	Judgment	Remark		
15.203	Antenna Requirement	TBBJ-20201010-01-1#	PASS	N/A		
15.207	Conducted Emission	TBBJ-20201010-01-2#	PASS	N/A		
MODE	Release Time	TBBJ-20201010-01-1#	PASS	N/A		
3	Radiation Emission	TBBJ-20201010-01-2#	PASS	N/A		
15.231	20 dB Bandwidth	TBBJ-20201010-01-1#	PASS	N/A		
	Duty Cycle	TBBJ-20201010-01-1#	PASS	N/A		
	Note: N/A is an abbreviation t	for Not Applicable.	The same of			

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE



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4. Test Equipment

Conducted Emission	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 T	est		<u>-</u>		
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, 2022
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.01, 2020	Feb. 28, 2022
Horn Antenna	ETS-LINDGREN	BBHA 9170	BBHA9170582	Mar.01, 2020	Feb. 28, 2022
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 07, 2020	Jul. 06, 2021
Pre-amplifier	Sonoma	310N	185903	Mar.01, 2020	Feb. 28, 2021
Pre-amplifier	HP	8449B	3008A00849	Mar.01, 2020	Feb. 28, 2021
Pre-amplifier	SKET	LNPA_1840G-50	SK201904032	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 Conducted I	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	ESPI	100010/007	Jul. 06, 2020	Jul. 05, 2021
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 11, 2020	Sep. 10, 2021
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 11, 2020	Sep. 10, 2021
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 11, 2020	Sep. 10, 2021
The state of the s	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Sep. 11, 2020	Sep. 10, 2021
70033	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 11, 2020	Sep. 10, 2021
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 11, 2020	Sep. 10, 2021
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 11, 2020	Sep. 10, 2021

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5. Conducted Emission Test

5.1 Test Standard and Limit

5.1.1Test Standard FCC 15.207

5.1.2 Test Limit

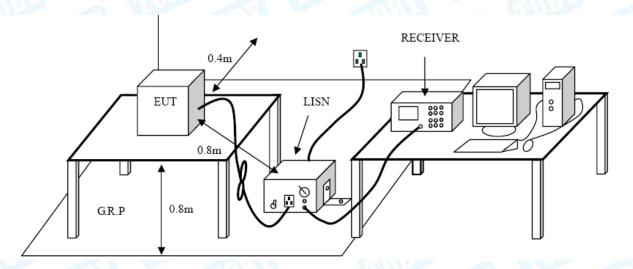
Conducted Emission Test Limit

	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.

5.2 Test Setup





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5.3 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.

The EUT must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation.

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 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.

5.4 Deviation From Test Standard

No deviation

5.5 Test Data

Please refer to the Attachment A.

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6. Radiated Emission Test

6.1 Test Standard and Limit

6.1.1 Test Standard FCC 15.231

6.1.2 Test Limit

According to FCC 15.231(a) requirement:

In addition to the provisions of Section 15.205, the field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolt/meter) at 3m	Field Strength of Spurious Emissions (microvolt/meter) at 3m		
40.66~40.70	2250	225		
70~130	1250	125		
130~174	1250 to 3750(**)	125 to 375(**)		
174~260	3750	375		
260~470	3750 to 12500(**)	375 to 1250(**)		
Above 470	12500	1250		

^{**} Linear interpolations, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

- (1) for the band 130~174 MHz, uV/m at 3 meters= 56.81818(F)-6136.3636;
- (2) for the band 260~470 MHz, uV/m at 3 meter= 41.6667(F)-7083.3333.
- (3) The maximum permitted unwanted emissions level is 20 dB below the maximum permitted fundamental level. In addition field strength of any emissions which appear inside of the restriction band shall not exceed the general radiated emissions limits in FCC Part15.209.

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



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Note:

(1) The tighter limit applies at the band edges.

(2) For above 30MHz:

Emission Level(dBuV/m)=20log Emission Level(uV/m)

For 0.009~0.490MHz:

Emission Level(dBuV/m)=20log Emission Level(uV/m) +40log(300/3)

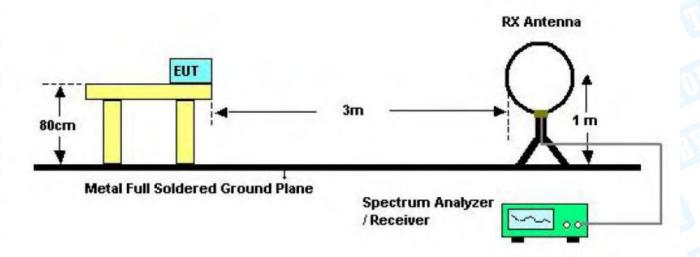
For 0.049~30MHz:

Emission Level(dBuV/m)=20log Emission Level(uV/m) +40log(30/3)

So the field strength of emission limits have been calculated in below table.

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolt/meter) at 3m		
433.92 MHz	80.82 (Average)		
433.92 MHz	100.82 (Peak)		

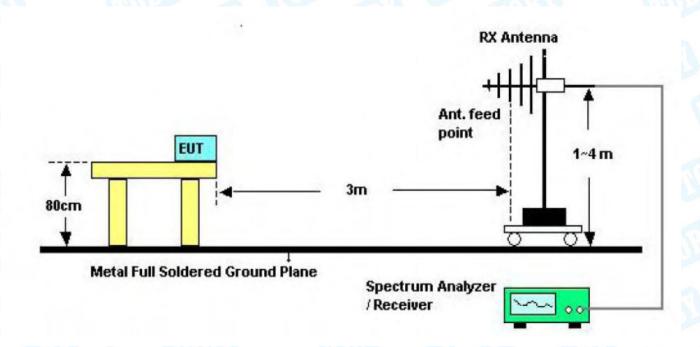
6.2 Test Setup



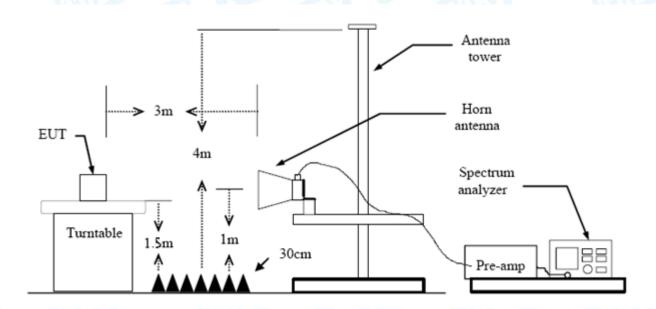
Below 30MHz Test Setup



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Bellow 1000MHz Test Setup



Above 1GHz Test Setup



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6.3 Test Procedure

(1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.

- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m 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 RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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.
- (5) 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.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) 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.
- (8) For the actual test configuration, please see the test setup photo.

6.4 Deviation From Test Standard

No deviation

6.5 EUT Operating Condition

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

6.6 Test Data

Please refer to the Attachment B.



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7. Bandwidth

7.1 Test Standard and Limit

7.1.1 Test Standard FCC 15.231

7.1.2 Test Limit

The 99%bandwidth of the emissions shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. So the emission bandwidth limits have been calculated in below table.

Fundamental Frequency	20 dB Bandwidth Limits (MHz)			
433.92MHz	1.0848			

7.2 Test Setup



7.3 Test Procedure

- (1) Set Spectrum Analyzer Center Frequency= Fundamental Frequency, RBW=10 kHz, VBW= 30 kHz, Span= 1 MHz.
- (2) Measured the spectrum width with power higher than 20 dB below carrier.

7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Condition

The Equipment Under Test was Programmed to be in continuously transmitting mode.

7.6 Test Data

Please refer to the Attachment C.



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8. Release Time Measurement

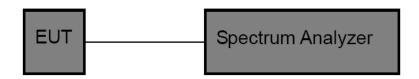
8.1 Test Standard and Limit

8.1.1 Test Standard FCC 15.231

8.1.2 Test Limit

According to FCC 15.231a, A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

8.2 Test Setup



8.3 Test Procedure

- (1) Setup the EUT as show in the block diagram above.
- (2) Set Spectrum Analyzer Centre Frequency= Fundamental Frequency, RBW=100 kHz, VBW= 300 kHz, Span= 0 Hz. Sweep Time= 5 Seconds.
- (3) Setup the EUT as normal operation and press Transmitter button.
- (4) Set Spectrum Analyzer View, Delta Mark time.

8.4 Deviation From Test Standard

No deviation

8.5 EUT Operating Condition

The EUT was set to work in transmitting mode.

8.6 Test Data

Please refer to the Attachment D.



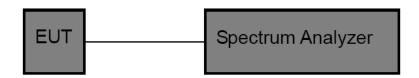
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9. Duty Cycle

9.1 Test Standard and Limit

9.1.1 Test Standard FCC 15.231

9.2 Test Setup



9.3 Test Procedure

- (1) The EUT was placed on a turntable which is 0.8m above ground plane.
- (2) Set EUT operating in continuous transmitting mode.
- (3) Set the Spectrum Analyzer to the transmitter carrier frequency, and set the spectrum analyzer resolution bandwidth (RBW) to 100 kHz and video bandwidth (VBW) to 300 kHz, Span was set to 0 Hz.
- (4) The Duty Cycle was measured and recorded.

9.4 Deviation From Test Standard

No deviation

9.5 EUT Operating Condition

The EUT was programmed to be in transmitting mode.

9.6 Test Data

Please refer to the Attachment E.



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10. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard FCC Part 15.203

10.1.2 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.

10.1 Deviation From Test Standard

No deviation

10.2 Antenna Connected Construction

The gains of the antenna used for transmitting is 0 dBi, and the antenna connector is de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

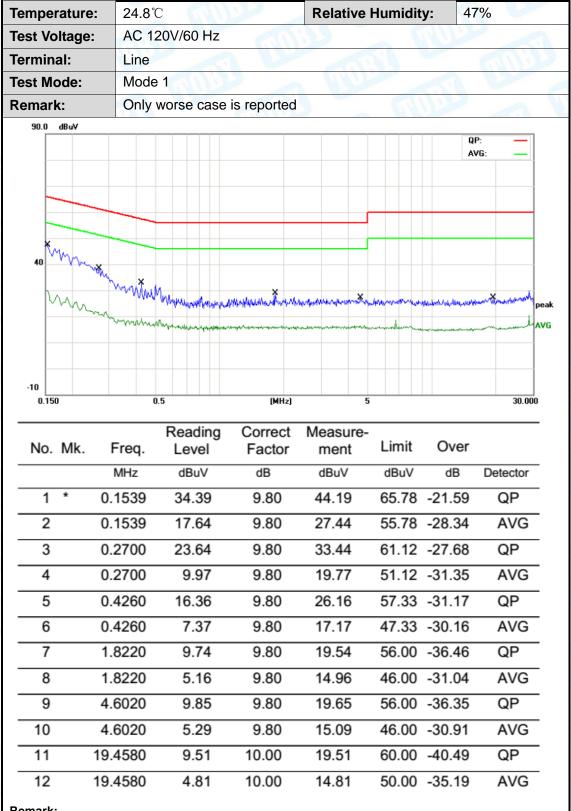
The EUT antenna is an Internal Antenna. It complies with the standard requirement.

	Antenna Type	
	▼ Permanent attached antenna	
amir	□ Unique connector antenna	0:33
	□ Professional installation antenna	



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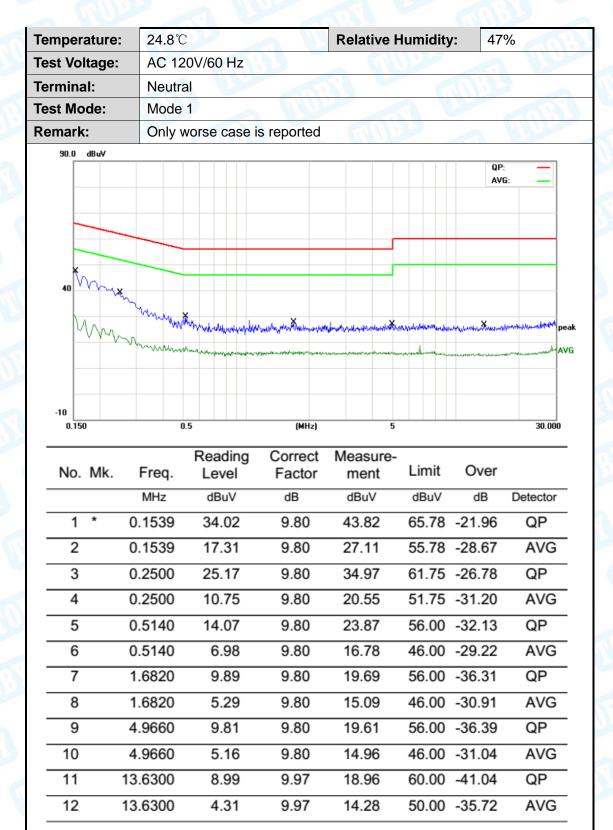
Attachment A-- Conducted Emission Test Data



- 1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
- 2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)



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Remark:

- 1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
- 2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)



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Attachment B-- Radiated Emission Test Data

9 KHz to 30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

30MHz-1GHz

emp	erature	e :	25	$^{\circ}$			F	Relati	ive Hum	idity:	55	%
est V	oltage/	:	AC	120V	/60Hz	Allen		3	design	e	M	A.D
nt. P	ol.		Horizontal									
est N	Mode:		TX Mode									
Rema	rk:			report scribed		e emission w	hich mo	re tha	an 10 dE	B belov	w the	
80.0 d	IBuV/m											
									2 X			
									3 X			5 X
									(HF)FCC	15C 3M F	Hadiation Hargin -6	™ ¥ [
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30					×7			1. 1	MA I Abou	١, ١		المالم
Λ,	www.	~	~~/		W	-	TYLWYW/		W 1 P	W ann	MW.	
			-70									
30.000) 40	50		70 80		(MHz)		300	400	500 60	00 700	1000.0
) 40	50			ading		Measi		400	500 60	00 700	1000.0
30.000) 40). Mk.	50 Fre	60 7	Re	ading		Measi mer	ure-	400 Limit		00 700 ver	1000.0
30.000			60 7 ⊖q.	Re Le	_	Correct		ure- nt		0		1000.0
30.000		Fre	60 7 eq.	Re Le	evel	Correct Factor	mer	ure- nt	Limit	O	ver	
30.000 No	o. Mk.	Fre	eq.	Re Le	evel BuV	Correct Factor	mer dBuV	ure- nt //m 76	Limit dBuV/n	On (ver dB	Detect
No.000). Mk.	Fre Mt 115.3	eq. dz 6204	Re Le 5	BuV 7.99	Correct Factor dB/m -22.23	mer dBuV 35.7	ure- nt //m 76	Limit dBuV/n	Or n () -7 32 -2	ver dB 7.74	Detect
No.000	». Mk.	Fre MH 115.3 434.0	eq. dz 6204 649	Re Le d 5	BuV 7.99 3.56	Correct Factor dB/m -22.23 -12.04	35.7	ure- nt 76 52	Limit dBuV/n 43.50	On (n) -7	ver dB 7.74	Detect QP pea
No.000	* X !	Fre MH 115.3 434.0 434.0	eq. dz 3204 649 645	Re Le 5	BuV 7.99 3.56 4.85	Correct Factor dB/m -22.23 -12.04 -12.04	mer dBuV 35.7 71.5 62.8	ure- nt 76 52 31	Limit dBuV/n 43.50 100.8 80.82	O'n () -732 -2 -10 -5	ver dB 7.74 29.30 8.01	Detect QF pea AV0

Emission Level= Read Level+ Correct Factor

Average Value=Peak Value-8.71



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Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		C. Carlon
Test Mode:	TX Mode	William United	
Remark:	No report for the emiss prescribed limit.	sion which more than 10 dB below	the



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	I	ļ	50.4089	58.76	-23.10	35.66	40.00	-4.34	QP
2	2	į	77.3212	59.39	-22.71	36.68	40.00	-3.32	QP
3	3	*	434.0649	84.76	-12.04	72.72	100.82	-28.10	peak
4	1	X	434.0649	76.05	-12.04	64.01	80.82	-16.81	AVG
5	5	X	869.1299	63.45	-5.26	58.19	80.82	-22.63	peak
6	3	Χ	869.1299	54.74	-5.26	49.48	60.82	-11.34	AVG

Emission Level= Read Level+ Correct Factor

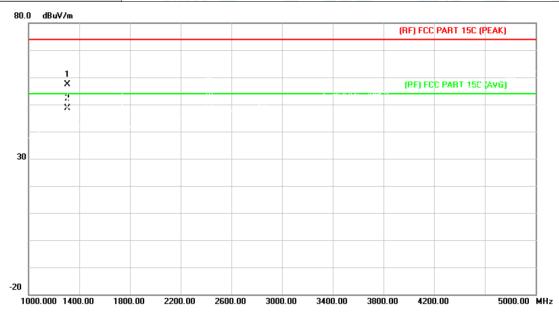
Average Value=Peak Value-8.71



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Above 1G

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ	THE PARTY OF	N. N. Carrie
Ant. Pol.	Horizontal	WILL STATE OF THE	
Test Mode:	TX Mode		
Remark:	The peak value < average limit, S	o only show the peak va	alue.



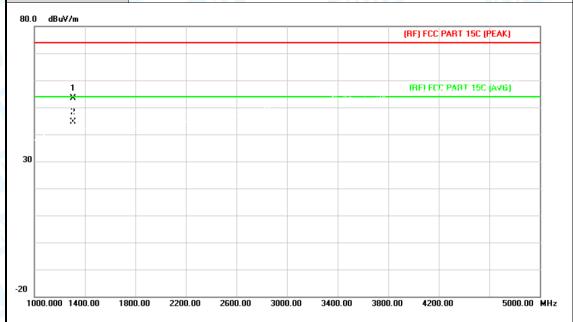
No	. Mk.	Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		1304.000	60.96	-3.55	57.41	74.00	-16.59	peak
2	*	1304.000	52.25	-3.55	48.70	54.00	-5.30	AVG

Emission Level= Read Level+ Correct Factor Average Value=Peak Value-8.71



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Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical	110	1
Test Mode:	TX Mode	THULL	
Remark:	The peak value < average limit, So	o only show the peak va	alue.



No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	,
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		1304.000	56.96	-3.55	53.41	74.00	-20.59	peak
2	*	1304.000	48.25	-3.55	44.70	54.00	-9.30	AVG

Emission Level= Read Level+ Correct Factor

Average Value=Peak Value-8.71



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Other harmonics emissions are lower than 20dB below the allowable limit.

Note:

- (1) All Readings are Peak Value and AV. And AV is calculated by the following: Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
 - Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values.
 - Average Values=Peak Values+20log (Duty Cycle)
- (2) Emission Level= Reading Level + Probe Factor +Cable Loss
- (3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Pulse Desensitization Correction Factor

Note:

1)The Smallest Pulse Width (PW)= 0.4ms

(2) 2/PW=2/0.4(ms)=5kHz<100 kHz

Because 2/PW<RBW, so the PDCF is not needed.

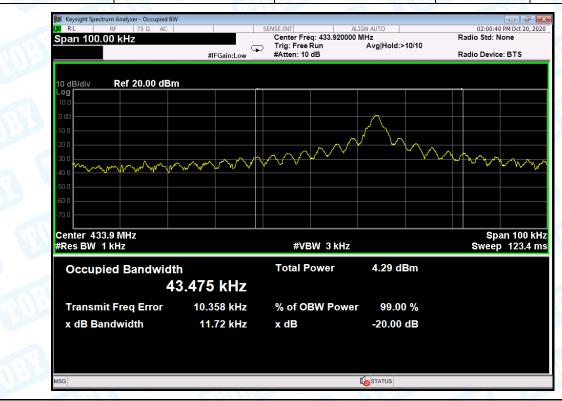


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Attachment C--Bandwidth Data

Temperature	:	25 ℃
Relative Humidity		55 %
Pressure	1	1010 hPa
Test Power		AC 120V

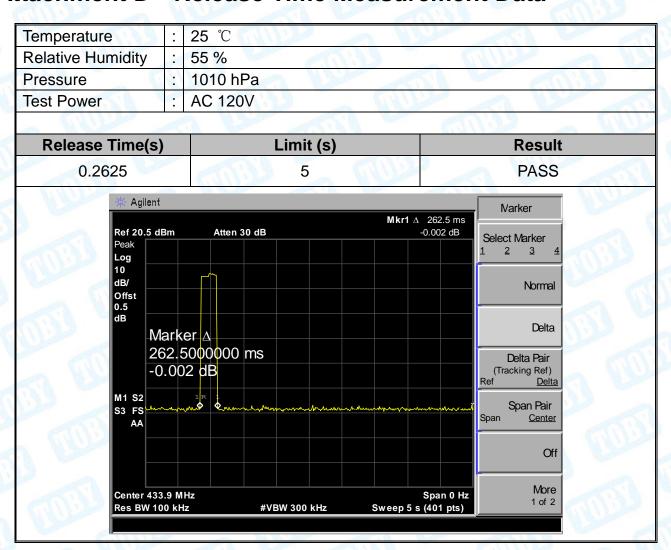
Frequency (MHz)	20 dBc Bandwidth (kHz)	99% OBW (kHz)	Limit (kHz)	Result
433.92	11.72	43.475	1084.8	PASS





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Attachment D-- Release Time Measurement Data





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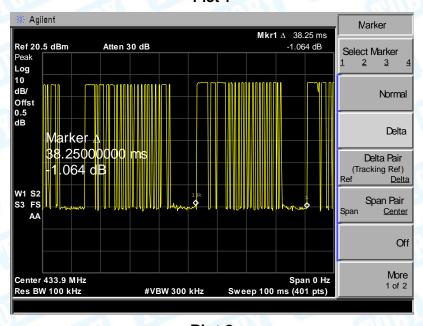
Attachment E--Duty Cycle Data

Please refer the following pages:

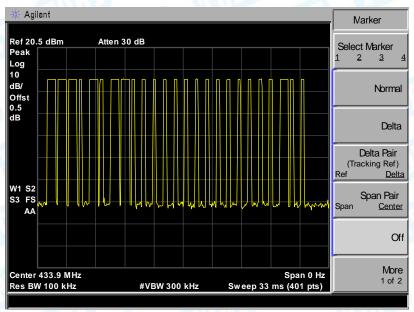
Plot 1/Plot 2: transmit once in 100ms, and each cycle is 38.25 ms there are two kinds of pulse in each cycle, the large pulses total 7, the little pulses total 18.

Plot 3: one large pulse in a time period of 0.975ms **Plot 4:** one little pulse in a time period of 0.400ms

Duty Cycle=ON/Total=(0.4*18+0.975*7)/38.25=14.025/38.25=36.7% 20 log(Duty Cycle)=-8.71 Average=Peak Value+ 20log(Duty Cycle), AV=PK-8.71



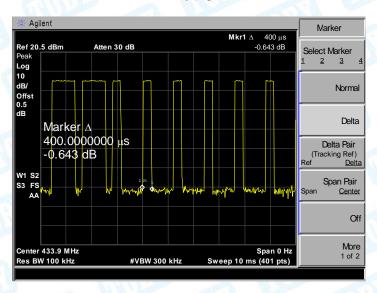
Plot 2



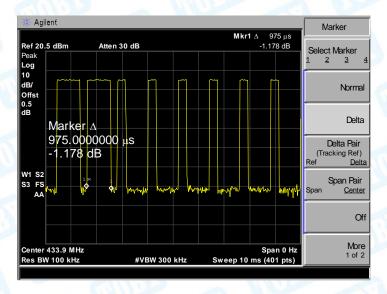


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Plot 3



Plot 4



-END OF REPORT--