

**TCB**

**GRANT OF EQUIPMENT  
AUTHORIZATION**

**TCB**

**Certification  
Issued Under the Authority of the  
Federal Communications Commission**

**By:**

**PHOENIX TESTLAB GmbH  
Koenigswinkel 10  
32825 Blomberg,  
Germany**

**Date of Grant: 07/17/2018**

**Application Dated: 07/17/2018**

**PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP  
COMPANY**

**3/F FULOK BLDG 131-133 WING LOK ST**

**SHEUNG WAN,  
Hong Kong**

**Attention: Peter Wang**

**NOT TRANSFERABLE**

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

**FCC IDENTIFIER: 2AJGM-BF888S**  
**Name of Grantee: PO FUNG ELECTRONIC(HK)  
INTERNATIOANL GROUP COMPANY**

**Equipment Class: Scanning Receiver**  
**Notes: UHF Amateur Radio**

Grant Notes

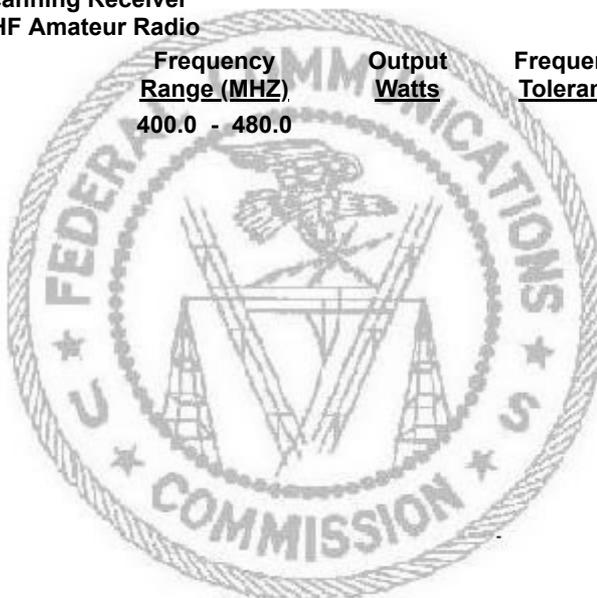
FCC Rule Parts  
15B

Frequency Range (MHZ)  
400.0 - 480.0

Output Watts

Frequency Tolerance

Emission Designator



# FCC Test Report

Report No.: AGC02294180607FE08

**FCC ID** : 2AJGM-BF666S  
**PRODUCT DESIGNATION** : TWO-WAY RADIOS  
**BRAND NAME** : BAOFENG, pofung  
**MODEL NAME** : BF-888S, GT-1, BF-666S, BF-777S, BF-888SA,  
BF-888S Plus, BF-888S Max  
**CLIENT** : PO FUNG ELECTRONIC(HK) INTERNATIOANL  
GROUP COMPANY  
**DATE OF ISSUE** : Jun. 27, 2018  
**STANDARD(S)** : FCC Part 15 Rules  
**REPORT VERSION** : V 1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 27, 2018	Valid	Initial Release

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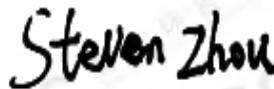


## 1. VERIFICATION OF COMPLIANCE

<b>Applicant</b>	PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY
<b>Address</b>	3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN, Hong Kong
<b>Manufacturer</b>	PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY
<b>Address</b>	3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN, Hong Kong
<b>Product Designation</b>	TWO-WAY RADIOS
<b>Brand name</b>	BAOFENG, pofung
<b>Test Model</b>	BF-666S
<b>Serial Model</b>	GT-1, BF-666S, BF-777S, BF-888SA, BF-888S Plus, BF-888S Max
<b>Serial Model Difference</b>	All the same except for the model name brand name and the external shape. (BF-888S, BF-666S, BF-777S, BF-888SA, BF-888S Plus, BF-888S Max is BAOFENG / GT-1 is pofung)
<b>Hardware Version</b>	LT-666-LN-VER6.3
<b>Software Version</b>	BF-888S
<b>Measurement Procedure</b>	ANSI C63.4: 2014
<b>Date of test:</b>	Jun. 20, 2018 to Jun. 27, 2018
<b>Deviation:</b>	None
<b>Condition of Test Sample</b>	Normal

The above equipment was tested by Attestation Of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2014. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements. The test results of this report relate only to the tested sample identified in this report.

Tested By



Steven Zhou(Zhou Pengyun) Jun. 27, 2018

Reviewed By



Bart Xie(Xie Xiaobin) Jun. 27, 2018

Approved By



 Forrest Lei(Lei Yonggang)  
 Authorized Officer Jun. 27, 2018

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## 2. PRODUCT INFORMATION

The EUT is a TWO-WAY RADIOS designed for voice communication. It is designed by way of utilizing the F3E modulation achieves the system operating.

A major technical description of EUT is described as following:

<b>Communication Type</b>	Voice / Tone only
<b>Modulation</b>	FM
<b>RX Frequency Range</b>	Rx: 400MHz -480MHz
<b>Emission Type</b>	F3E
<b>Antenna Designation</b>	Detachable
<b>Antenna Gain</b>	2.15dBi
<b>Power Supply</b>	DC 3.7V 1500mAh, charging with DC 4.2V.
<b>Charger Parameter</b>	INPUT: DC 5V OUTPUT:DC 4.2V 0.5A

### I/O Port Information (Applicable Not Applicable)

I/O Port of EUT			
I/O Port Type	Q'TY	Cable	Tested with
DC Input Port	1	1.14m, Unshielded	1
Antenna Connect Port	1	0	1

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### 3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
<b>NVLAP LAB CODE</b>	600153-0
<b>Designation Number</b>	CN5028
<b>FCC Test Firm Registration Number</b>	682566
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

#### List Of Test Equipment:

##### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	100096	Jun. 12, 2018	Jun. 11, 2019
AMN/LISN	R&S	ESH2-Z5	100086	Aug. 24, 2017	Aug. 23, 2018
TEST SOFTWARE	FR	EZ-EMC	AGC-CON03 A	--	--

##### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2018	Jun. 11, 2019
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 27, 2017	Sep. 28, 2019
TEST RECEIVER	R&S	ESCI	100694	Jun. 12, 2018	Jun. 11, 2019
AMPLIFIER	Schwarzbeck	BBV 9718	9718-205	Jun. 12, 2018	Jun. 11, 2019
POSITIONING CONTROLLER	MF	MF-7802	MF780208285	--	--
HORN ANTENNA	ETS LINDGREN	3117	00034609	May. 17, 2017	May. 18, 2019

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#### 4. SUPPORT EQUIPMENT LIST

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Adapter	KUANTEN	KT05W050050USU	--	--	--

#### 5. SYSTEM DESCRIPTION

##### EUT test procedure:

1. Connect EUT and peripheral devices.
2. Power on the EUT, the EUT begins to work.
3. Make sure the EUT normal working.

##### EMC TEST MODES

No.	TEST MODES
1	Scanning mode
2	Scanning stopped/Receiving

**Note:** Only the result of the worst case was recorded in the report.

## 6. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.107	Conduction Emission	Compliant
§15.109	Radiated Emission	Compliant
§15.111	Antenna Conducted Power for receivers	Compliant

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## 7. FCC RADIATED EMISSION TEST

### 7.1. TEST EQUIPMENT OF RADIATED EMISSION

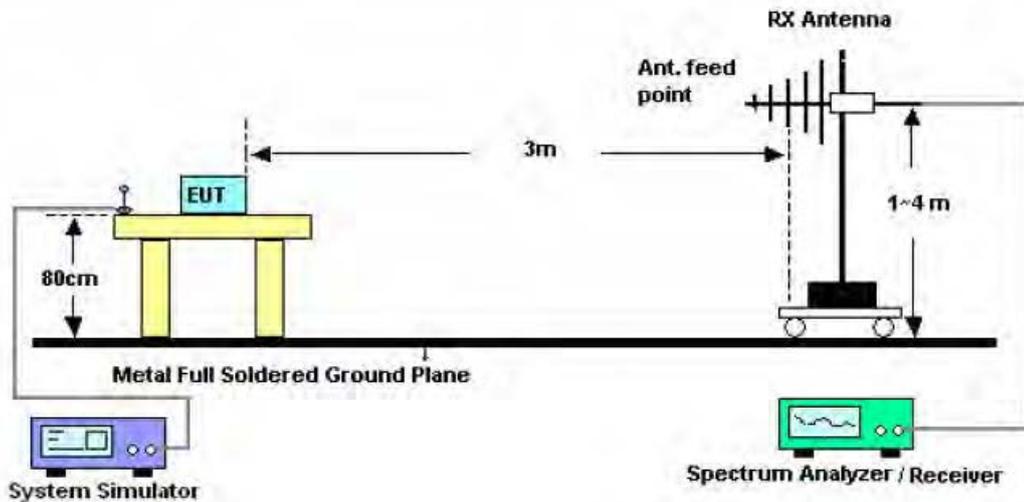
### 7.2. LIMITS OF RADIATED EMISSION TEST

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m/ Q.P.)
30~88	3	41.0
88~216	3	45.0
216~960	3	48.0
960~2000	3	53.5

\*\*Note: The lower limit shall apply at the transition frequency. Because the EUT RX frequency range up to 480 MHz, so the upper the frequency range up to 2 GHz.

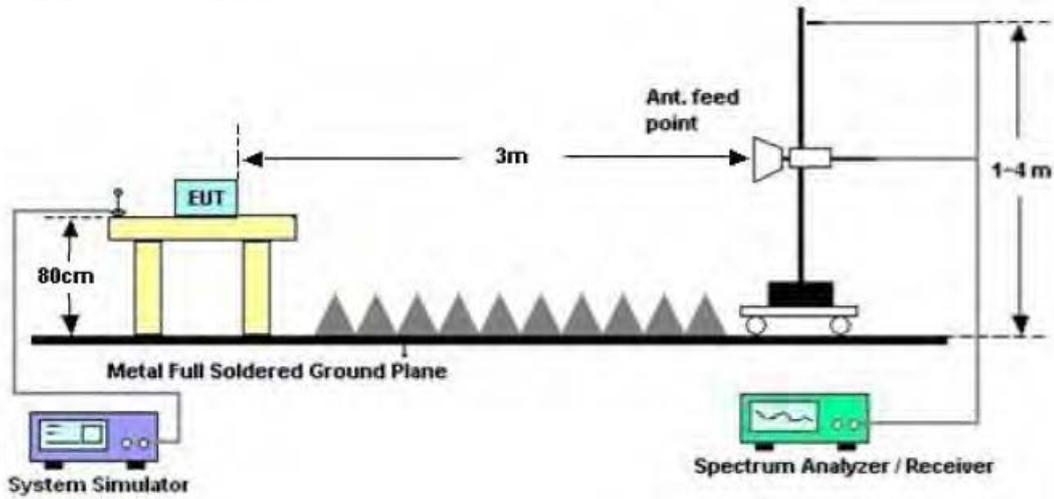
### 7.3 BLOCK DIAGRAM OF RADIATED EMISSION TEST

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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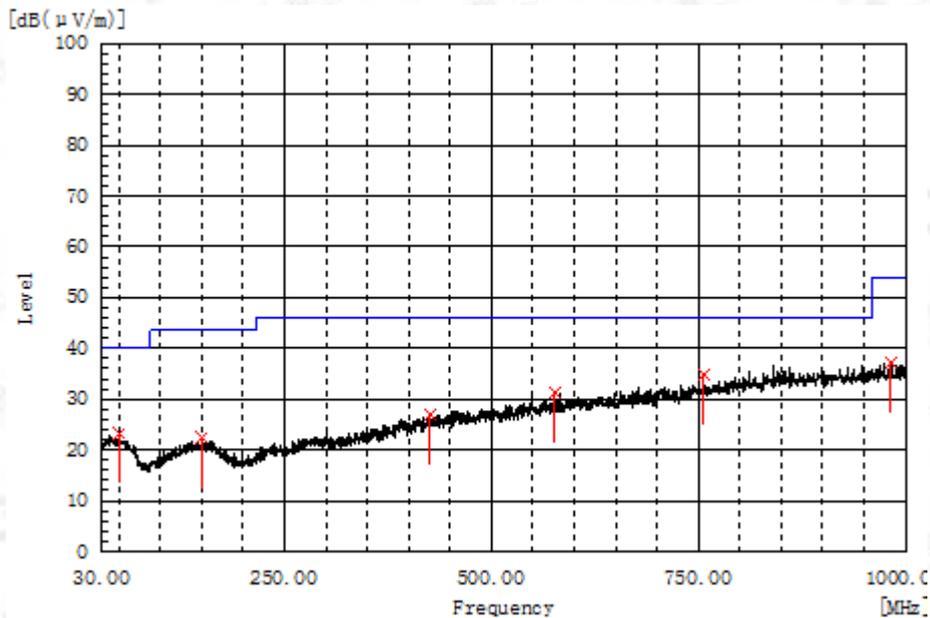
#### 7.4 PROCEDURE OF RADIATED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) The EUT received power by AC 120V/60Hz.
- 5) The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- 6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- 7) The test mode(s) were scanned during the test:
- 8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented. For emissions below 1GHz, use 120KHz RBW and VBW>=3RBW for QP reading.
- 9) For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 10) When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 11) If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 12) For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 13) In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.
- 14) The test data of the worst case condition (mode 1) was reported on the following Data page

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**7.5 TEST RESULT OF RADIATED EMISSION TEST**

Radiated Emission Test –Horizontal -3m Below 1G

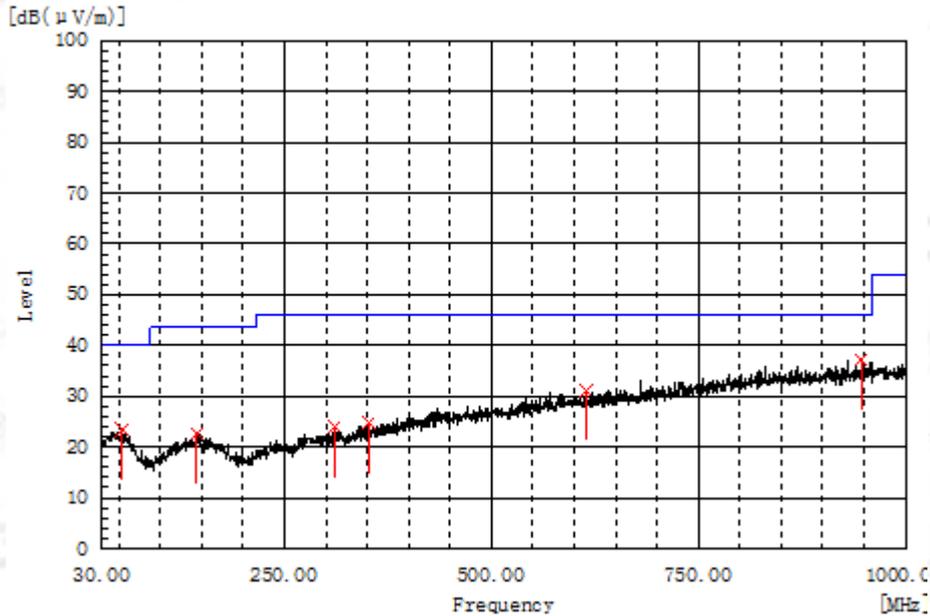


Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
51.340	H	6.3	17.0	23.3	40.0	16.7	Pass	200.0	87.3
149.795	H	5.8	16.6	22.4	43.5	21.1	Pass	150.0	178.5
426.245	H	5.5	21.6	27.1	46.0	18.9	Pass	200.0	46.3
576.595	H	6.8	24.5	31.3	46.0	14.7	Pass	200.0	87.3
756.045	H	7.1	27.7	34.8	46.0	11.2	Pass	200.0	336.9
982.540	H	6.3	31.0	37.3	54.0	16.7	Pass	100.0	107.5

**RESULT: PASS**

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Radiated Emission Test –Vertical -3m Below 1G



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
53.280	V	6.6	16.8	23.4	40.0	16.6	Pass	200.0	307.5
144.460	V	6.0	16.6	22.6	43.5	20.9	Pass	100.0	71.6
309.845	V	6.4	17.6	24.0	46.0	22.0	Pass	200.0	344.1
353.010	V	5.8	19.0	24.8	46.0	21.2	Pass	150.0	178.8
614.910	V	6.0	25.2	31.2	46.0	14.8	Pass	200.0	270.3
946.650	V	6.5	30.6	37.1	46.0	8.9	Pass	100.0	181.5

**RESULT: PASS**

- Note:**
- Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.
  - The "Factor" value can be calculated automatically by software of measurement system.
  - Emissions range from 1GHz to 2GHz have 20dB margin. No recording in the test report.
  - Only the data of the worst case would be record in this test report.

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## 8. CONDUCTED EMISSION TEST

### 8.1 PROVISIONS APPLICABLE

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequencies within the band 150 KHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50uH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

Frequency of Emission (MHz)	Conducted Limit(dBuV)	
	Quasi-Peak	Average
0.15 – 0.5	66 to 56 *	56 to 46 *
0.5 – 5	56	46
5 – 30	60	50

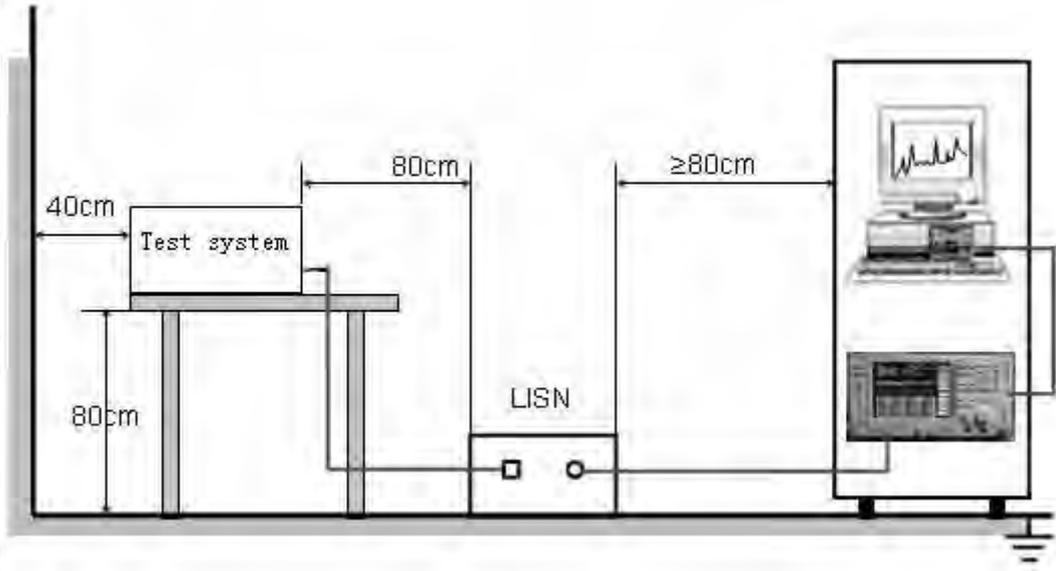
\* Decreases with the logarithm of the frequency.

### 8.2 MEASUREMENT PROCEDURE

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per ANSI C63.4.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- (4) The EUT received AC 120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- (5) All support equipments received AC power from a second LISN, if any.
- (6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (7) Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

**8.3 TEST SETUP BLOCK DIAGRAM**

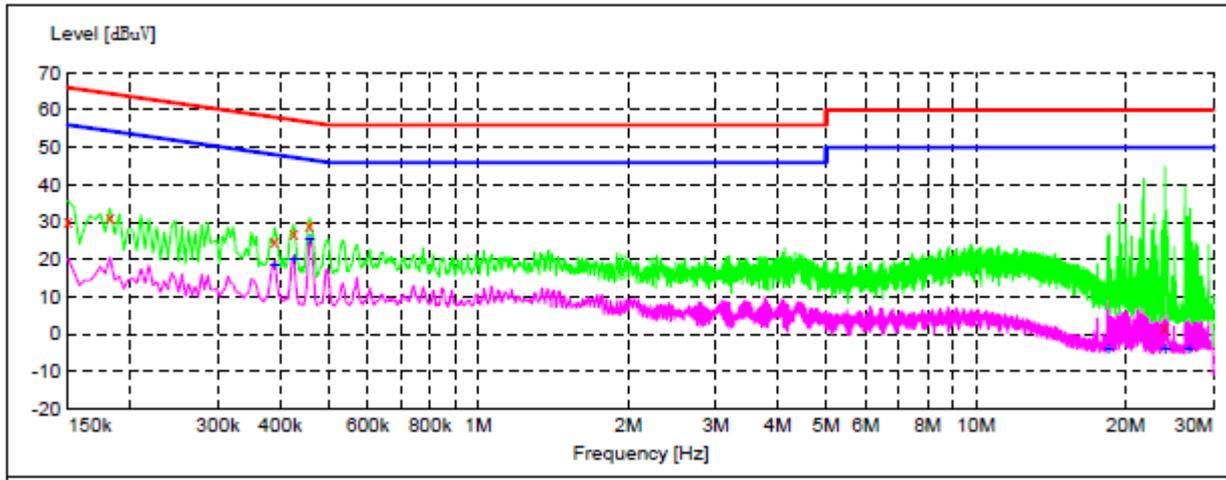


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**8.4 TEST RESULT**

**CONDUCTED EMISSION TEST – LINE L**



**MEASUREMENT RESULT:**

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	30.30	10.0	66	35.7	QP	L1	FLO
0.182000	31.10	10.0	64	33.3	QP	L1	FLO
0.390000	25.10	10.0	58	33.0	QP	L1	FLO
0.426000	27.20	10.0	57	30.1	QP	L1	FLO
0.458000	29.00	10.0	57	27.7	QP	L1	FLO
23.970000	1.70	10.2	60	58.3	QP	L1	FLO

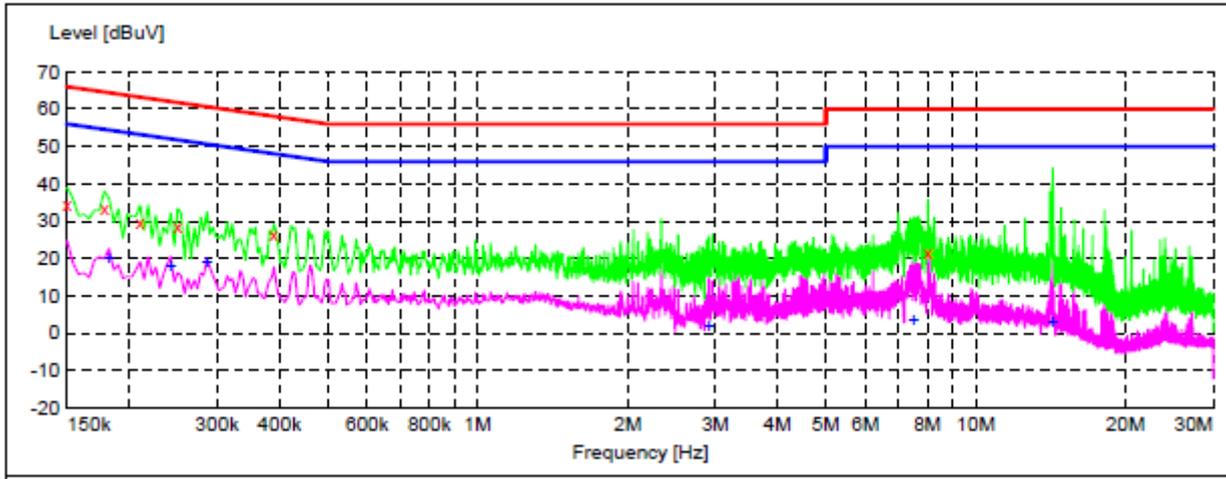
**MEASUREMENT RESULT:**

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.390000	18.60	10.0	48	29.5	AV	L1	FLO
0.426000	20.00	10.0	47	27.3	AV	L1	FLO
0.458000	25.50	10.0	47	21.2	AV	L1	FLO
18.414000	-4.00	9.4	50	54.0	AV	L1	FLO
23.970000	-4.20	10.2	50	54.2	AV	L1	FLO
26.770000	-4.00	10.7	50	54.0	AV	L1	FLO

**RESULT: PASS**

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CONDUCTED EMISSION TEST – LINE N



**MEASUREMENT RESULT:**

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	34.60	10.0	66	31.4	QP	N	FLO
0.178000	33.40	10.0	65	31.2	QP	N	FLO
0.210000	29.90	10.1	63	33.3	QP	N	FLO
0.250000	28.40	10.1	62	33.4	QP	N	FLO
0.390000	26.40	10.0	58	31.7	QP	N	FLO
8.018000	21.60	10.1	60	38.4	QP	N	FLO

**MEASUREMENT RESULT:**

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.182000	19.90	10.0	54	34.5	AV	N	FLO
0.242000	17.80	10.1	52	34.2	AV	N	FLO
0.286000	18.90	10.1	51	31.7	AV	N	FLO
2.910000	2.00	9.9	46	44.0	AV	N	FLO
7.506000	3.70	9.9	50	46.3	AV	N	FLO
14.266000	3.00	9.6	50	47.0	AV	N	FLO

**RESULT: PASS**

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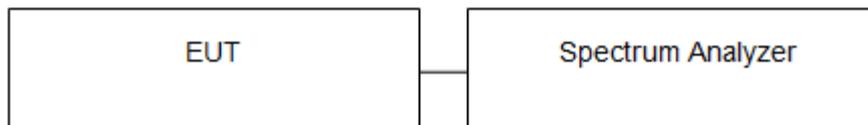
## 9. ANTENNA CONDUCTED POWER FOR RECEIVERS

### LIMIT

The antenna conducted power of the receiver as defined in §15.111 shall not exceed the values given in the following tables

Frequency Range	9 KHz to 2GHz
Limit	2.0 nW (-57 dBm )

### TEST CONFIGURATION



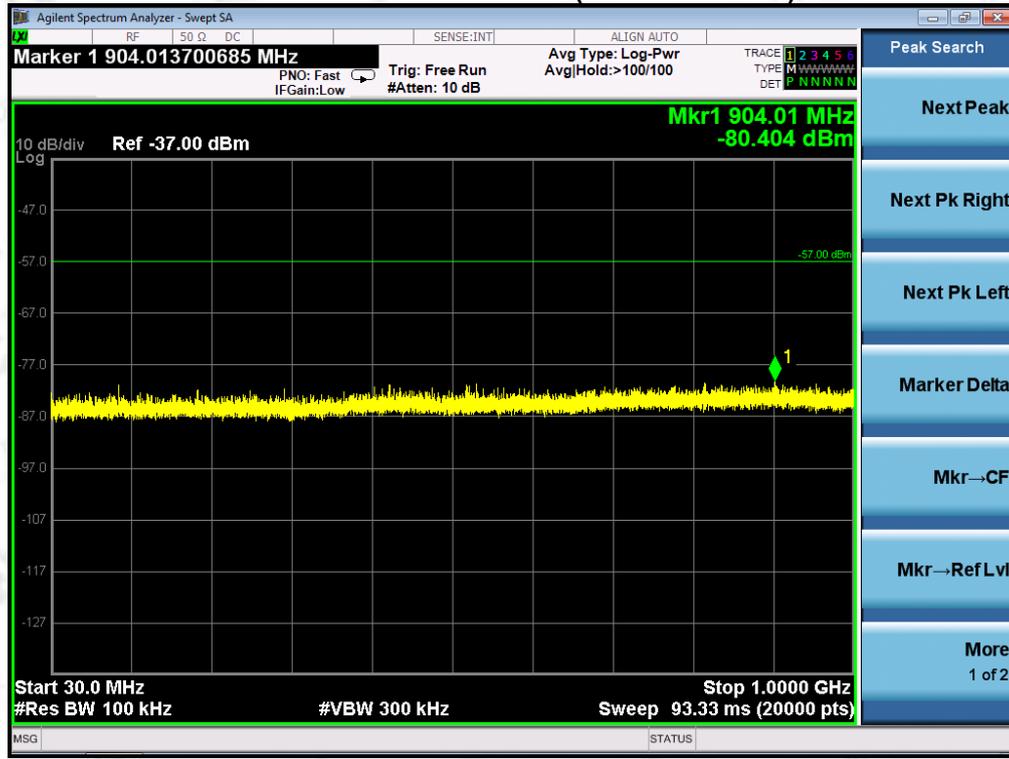
### TEST PROCEDURE

1. The receiver antenna terminal connected to a spectrum analyzer.
2. The test data of the worst case condition (mode 1) was reported on the following Data page.

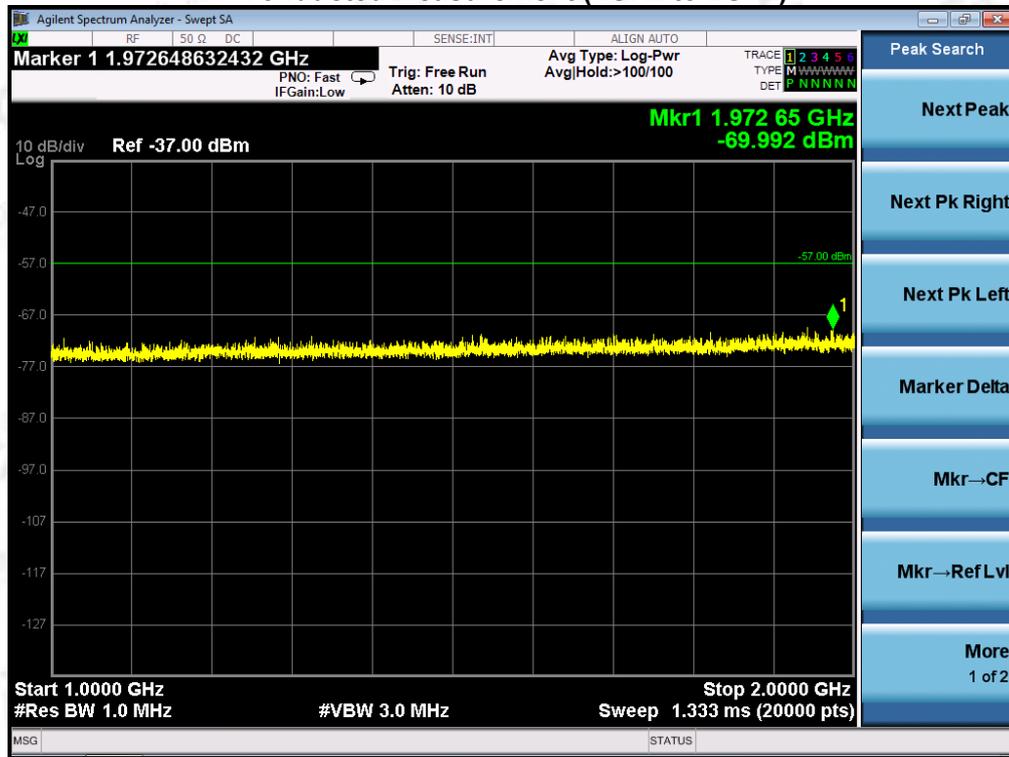
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**Conducted Measurement (30MHz to 1GHz)**



**Conducted Measurement (1GHz to 2GHz)**



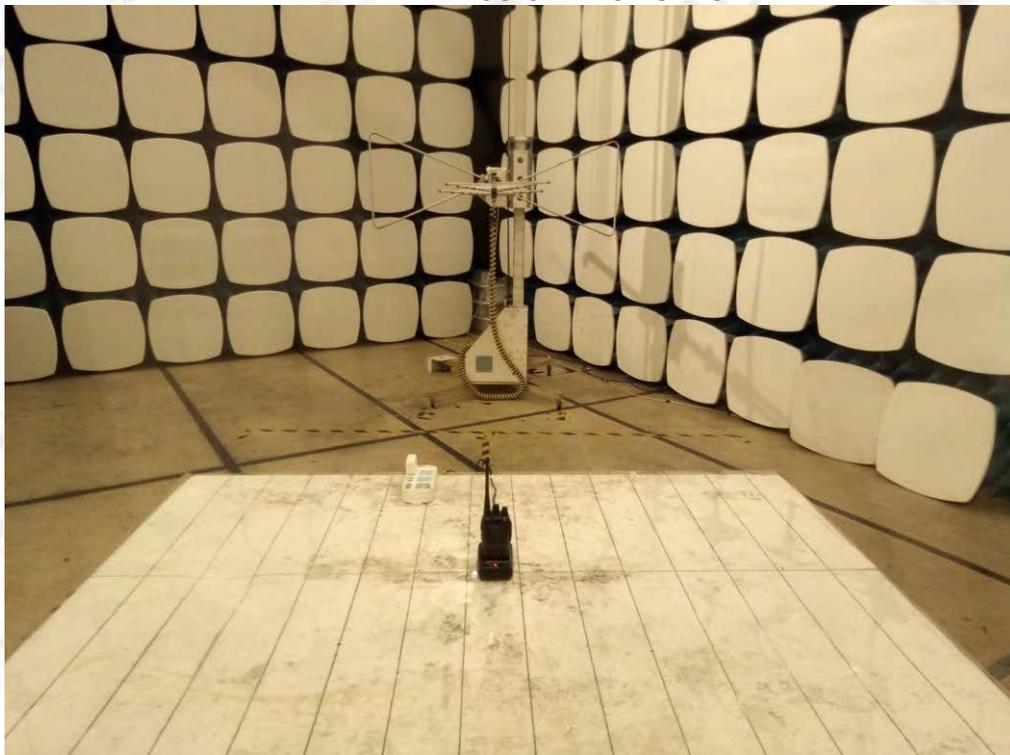
**PASS**

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**APPENDIX 1 PHOTOGRAPHS OF TEST SETUP**  
**CONDUCTED EMISSION TEST SETUP**



**RADIATED EMISSION TEST SETUP**



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**APPENDIX 2 PHOTOGRAPHS OF EUT**  
TOTAL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



OPEN VIEW-1 OF EUT

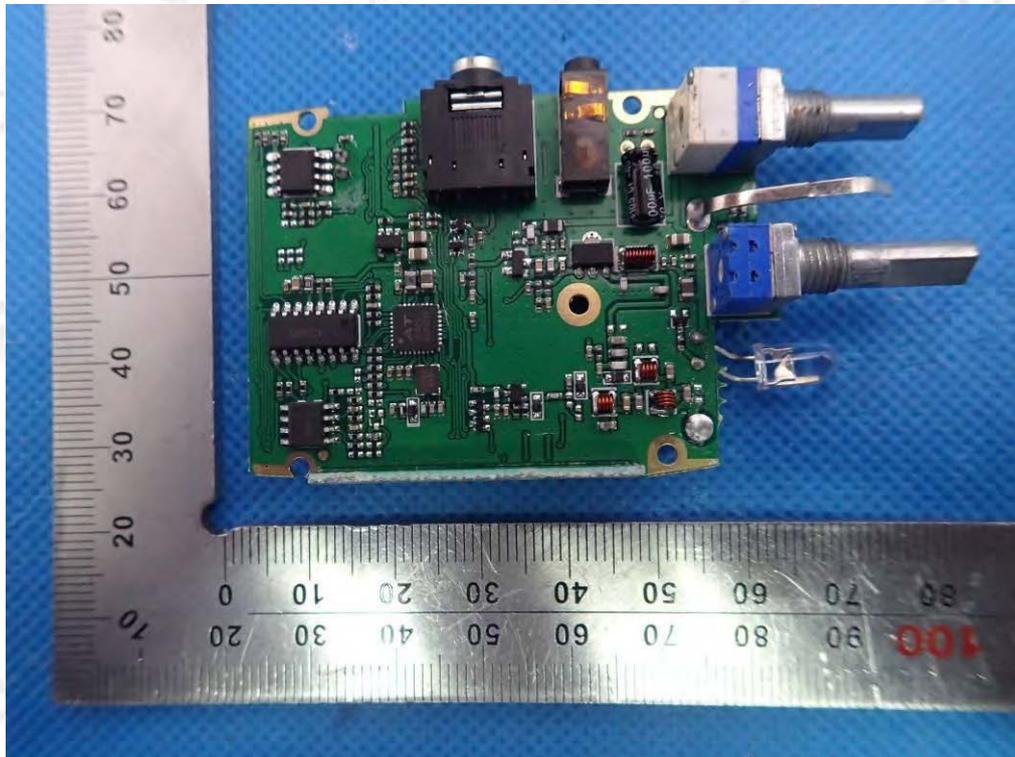


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INTERNAL VIEW-1 OF EUT



INTERNAL VIEW-2 OF EUT



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# FCC Part 97 Test Report

Report No.: AGC02294180607FE09

**PRODUCT DESIGNATION** : TWO-WAY RADIOS  
**BRAND NAME** : BAOFENG, pofung  
**MODEL NAME** : BF-666S, BF-888S, GT-1, BF-777S, BF-888SA, BF-888S Plus,  
BF-888S Max  
**CLIENT** : PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP  
COMPANY  
**DATE OF ISSUE** : Jun. 27, 2018  
**STANDARD(S)** : FCC Part 97 Rules  
**REPORT VERSION** : V 1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 27, 2018	Valid	Initial Release

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**1. VERIFICATION OF COMPLIANCE**

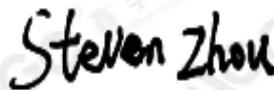
<b>Applicant</b>	PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY
<b>Address</b>	3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN, Hong Kong
<b>Manufacturer</b>	PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY
<b>Address</b>	3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN, Hong Kong
<b>Product Designation</b>	TWO-WAY RADIOS
<b>Brand name</b>	BAOFENG, pofung
<b>Test Model</b>	BF-888S
<b>Series Model</b>	GT-1, BF-666S, BF-777S, BF-888SA, BF-888S Plus, BF-888S Max
<b>Declaration of Difference</b>	All the same except for the model name brand name and the external shape. (BF-888S, BF-666S, BF-777S, BF-888SA, BF-888S Plus, BF-888S Max is BAOFENG / GT-1 is pofung)
<b>Measurement Procedure</b>	ANSI C63.4: 2014
<b>Date of test</b>	Jun. 20, 2018 to Jun. 27, 2018
<b>Test Result</b>	Pass

**WE HEREBY CERTIFY THAT:**

The above equipment was tested by Shenzhen Attestation of Global Compliance Science & Technology Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C 63.4:2014 and TIA/EIA 603. The sample tested as described in this report is in compliance with the FCC Rules Part 97.

The test results of this report relate only to the tested sample identified in this report.

Tested By



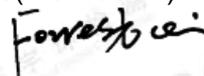
Steven Zhou(Zhou Pengyun) Jun. 27, 2018

Reviewed By



Bart Xie(Xie Xiaobin) Jun. 27, 2018

Approved By



 Forrest Lei(Lei Yonggang)  
 Authorized Officer Jun. 27, 2018

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## 2. GENERAL INFORMATION

### 2.1 PRODUCT DESCRIPTION

The EUT is a TWO-WAY RADIOS designed for voice communication. It is designed by way of utilizing the F3E modulation achieves the system operating.

A major technical description of EUT is described as following:

Communication Type	Voice / Tone only
Modulation	FM
Hardware Version	LT-666-LN-VER6.3
Software Version	BF-888S
Emission Type	16K69F3E
Emission Bandwidth	10.86 KHz(2W-12.5KHz), 16.69 KHz(2W-25KHz)
Peak Frequency Deviation	1.94KHz
Audio Frequency Response	10.26dB
Maximum Transmitter Power	36.86 dBm (2W-12.5KHz),36.89 dBm (2W-25KHz)
Output power Modification	2W (It was fixed by the manufacturer, any individual can't arbitrarily change it)
Antenna Designation	Detachable antenna
Antenna Gain	2.15dBi
Power Supply	DC 3.7V 1500mAh by battery, charging with DC 4.2V
Charger Parameter	OUTPUT:DC 5V OUTPUT:DC 4.2V, 0.5A
Limiting Voltage	DC 3.15V ~ 4.26V
Operation Frequency Range and Channel Separation	Frequency Range: TX(420MHz-450MHz) Channel Separation:12.5 KHz /25KHz
	420MHz-450MHz
	Bottom Channel: 420.025MHz Middle Channel: 435.025MHz Top Channel:449.975MHz
Frequency Tolerance	1.144ppm

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## 2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for filing to comply with the FCC Part 97 requirements.

## 2.3 TEST METHODOLOGY

The radiated emission testing was performed according to the procedures of ANSI C 63.4: 2014; TIA/EIA 603 and FCC CFR 47 Rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

## 2.4 TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
<b>NVLAP LAB CODE</b>	600153-0
<b>Designation Number</b>	CN5028
<b>FCC Test Firm Registration Number</b>	682566
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

## 2.5 SPECIAL ACCESSORIES

Not available for this EUT intended for grant.

## 2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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### 3. SYSTEM TEST CONFIGURATION

#### 3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### 3.2 EUT EXERCISE

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

#### 3.3 GENERAL TECHNICAL REQUIREMENTS

- (1). Section 15.207: Conducted Limits
- (2). Section 97.303: Frequency sharing requirements
- (3). Section 97.305: Authorized emission types
- (4). Section 97.307: Emissions standards
- (5). Section 97.309: RTTY and data emission codes
- (6). Section 97.313: Transmitter power standards
- (7).Section 2.1047: Modulation characteristic

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### 3.4 CONFIGURATION OF TESTED SYSTEM

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

Item	Equipment	Model No.	Note
1	TWO-WAY RADIOS	BF-888S	EUT

### 3.5 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207	Conducted Emission	Compliant
§2.1047	Modulation characteristics	Compliant
§97.303	Frequency sharing requirements	Compliant
§97.305	Authorized emission types	Compliant
§97.307	Emissions standards	Compliant

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#### 4. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

##### LIST OF EQUIPMENTS USED

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2018	Jun. 11, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun. 12, 2018	Jun. 11, 2019
HORN ANTENNA	EM	EM-AH-10180	/	Mar.01, 2018	Feb.29, 2020
ANTENNA	SCHWARZBECK	VULB9168	VULB9168-494	Mar.01, 2018	Feb.29, 2020
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Small environmental tester	ESPEC	SH-242	--	Mar.02, 2018	Mar. 01, 2019
RF Communication Test Set	HP	HP8920B	--	Jun. 20, 2017	Jun. 19, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	--	Mar.01, 2018	Feb.28, 2020

NOTE: 8920B can generate audio modulation frequency.

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## 5. DESCRIPTION OF TEST MODES

### RF TEST MODES

The EUT (TWO-WAY RADIOS) has been tested under normal operating condition. (The top channel, the middle channel and the bottom channel) are chosen for testing at each channel separation.

No.	TEST MODES	CHANNEL SEPARATION
1	Low Channel	12.5 KHz
2	Middle Channel	12.5 KHz
3	High Channel	12.5 KHz

### TEST MODES

No.	TEST MODES
1	Standby Mode + (Charging)
2	TX

**Note:** Only the result of the worst case was recorded in the report.

## 6. CONDUCTED LIMITS

### 6.1 PROVISIONS APPLICABLE

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the, the radio frequency voltage that is conducted back onto the AC power line on any frequencies within the band 150 KHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50uH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

Frequency of Emission (MHz)	Conducted Limit(dBuV)	
	Quasi-Peak	Average
0.15 – 0.5	66 to 56 *	56 to 46 *
0.5 – 5	56	46
5 – 30	60	50

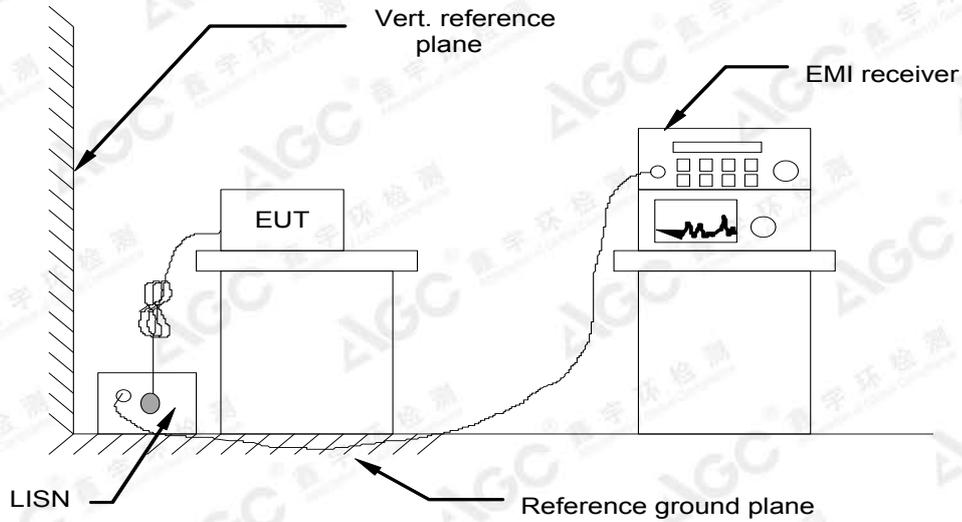
\* Decreases with the logarithm of the frequency.

### 6.2 MEASUREMENT PROCEDURE

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per ANSI C63.4.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- (4) The EUT received power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- (5) All support equipments received AC power from a second LISN, if any.
- (6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (7) Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.  
 During the above scans, the emissions were maximized by cable manipulation.

The test data of condition (mode 1) was reported on the following Data page.

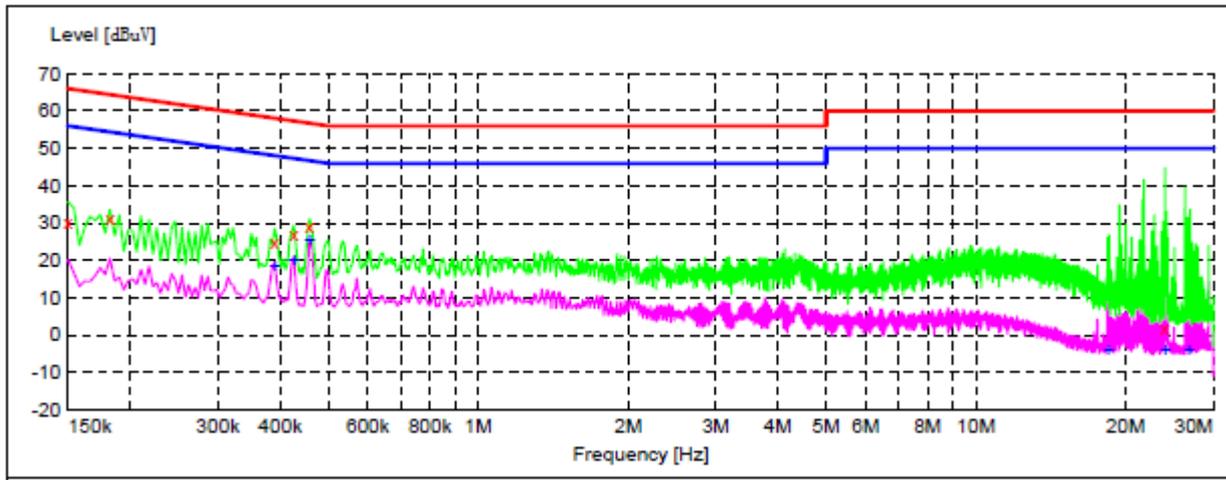
### 6.3 TEST SETUP BLOCK DIAGRAM



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**6.4 TEST RESULT**

**LINE CONDUCTED EMISSION TEST-L1**



**MEASUREMENT RESULT:**

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	30.30	10.0	66	35.7	QP	L1	FLO
0.182000	31.10	10.0	64	33.3	QP	L1	FLO
0.390000	25.10	10.0	58	33.0	QP	L1	FLO
0.426000	27.20	10.0	57	30.1	QP	L1	FLO
0.458000	29.00	10.0	57	27.7	QP	L1	FLO
23.970000	1.70	10.2	60	58.3	QP	L1	FLO

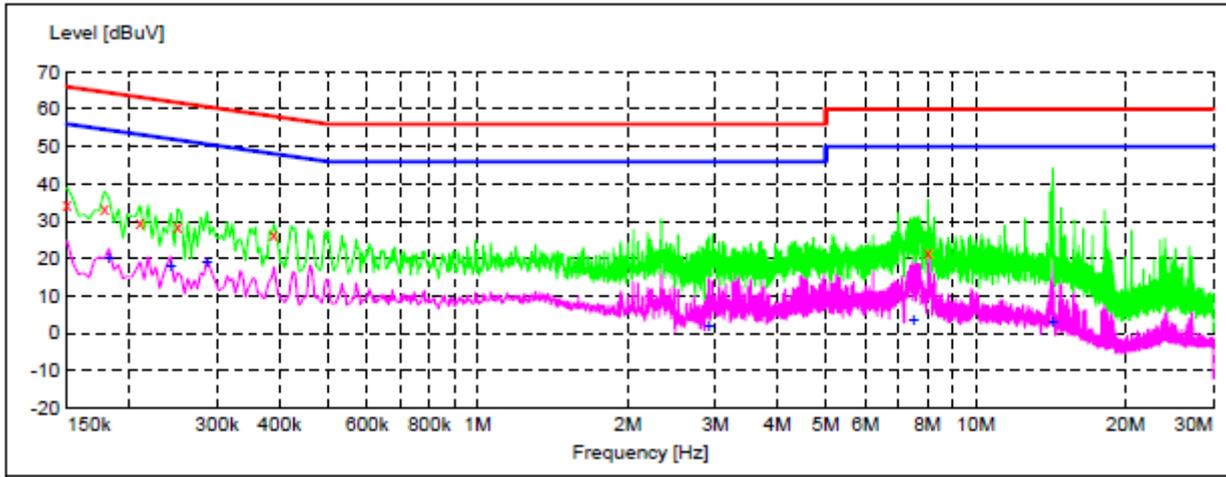
**MEASUREMENT RESULT:**

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.390000	18.60	10.0	48	29.5	AV	L1	FLO
0.426000	20.00	10.0	47	27.3	AV	L1	FLO
0.458000	25.50	10.0	47	21.2	AV	L1	FLO
18.414000	-4.00	9.4	50	54.0	AV	L1	FLO
23.970000	-4.20	10.2	50	54.2	AV	L1	FLO
26.770000	-4.00	10.7	50	54.0	AV	L1	FLO

**RESULT: PASS**

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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	34.60	10.0	66	31.4	QP	N	FLO
0.178000	33.40	10.0	65	31.2	QP	N	FLO
0.210000	29.90	10.1	63	33.3	QP	N	FLO
0.250000	28.40	10.1	62	33.4	QP	N	FLO
0.390000	26.40	10.0	58	31.7	QP	N	FLO
8.018000	21.60	10.1	60	38.4	QP	N	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.182000	19.90	10.0	54	34.5	AV	N	FLO
0.242000	17.80	10.1	52	34.2	AV	N	FLO
0.286000	18.90	10.1	51	31.7	AV	N	FLO
2.910000	2.00	9.9	46	44.0	AV	N	FLO
7.506000	3.70	9.9	50	46.3	AV	N	FLO
14.266000	3.00	9.6	50	47.0	AV	N	FLO

RESULT: PASS

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## 7. FREQUENCY TOLERANCE

### 7.1 PROVISIONS APPLICABLE

- a). According to FCC Part 2 Section 2.1055(a)(1), the frequency stability shall be measured with variation of ambient temperature from  $-30^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  centigrade.
- b). According to FCC Part 2 Section 2.1055(d)(2), for battery powered equipment, the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point, which is specified by the manufacturer.

### 7.2 MEASUREMENT PROCEDURE

#### 7.2.1 Frequency stability versus environmental temperature

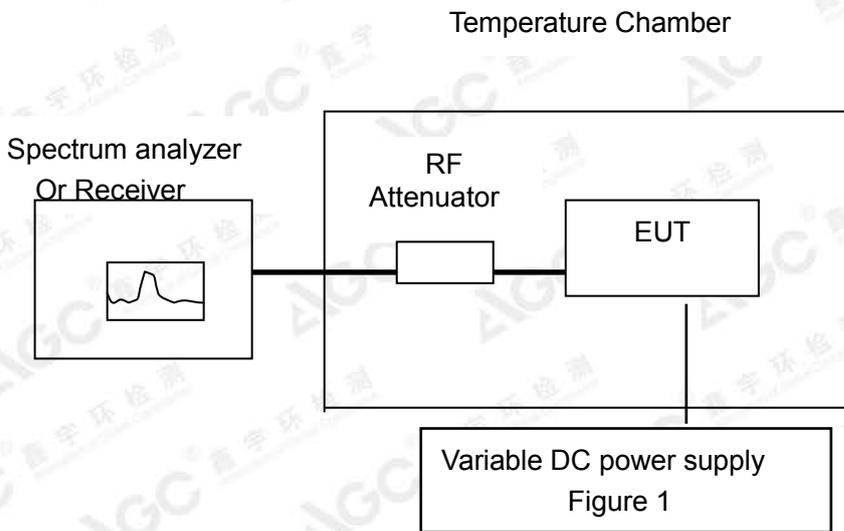
1. Setup the configuration per figure 1 for frequencies measurement inside an environment chamber, Install new battery in the EUT.
2. Turn on EUT and set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1KHz and Video Resolution Bandwidth to 1KHz and Frequency Span to 50KHz. Record this frequency as reference frequency.
3. Set the temperature of chamber to  $50^{\circ}\text{C}$ . Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
4. Repeat step 2 with a  $10^{\circ}\text{C}$  decreased per stage until the lowest temperature  $-30^{\circ}\text{C}$  is measured, record all measured frequencies on each temperature step.

#### 7.2.2 Frequency stability versus input voltage

1. Setup the configuration per figure 1 for frequencies measured at temperature if it is within  $15^{\circ}\text{C}$  to  $25^{\circ}\text{C}$ . Otherwise, an environment chamber set for a temperature of  $20^{\circ}\text{C}$  shall be used. The EUT shall be powered by DC 3.7 V
2. Set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1 KHz and Video Resolution Bandwidth to 1KHz. Record this frequency as reference frequency.
3. Supply the EUT primary voltage at the operating end point which is specified by manufacturer and record the frequency.

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### 7.3 TEST SETUP BLOCK DIAGRAM



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**7.4 TEST RESULT**
**12.5 KHz Channel Separation**

Environment Temperature(°C)	Power Supply (V)	Reference Frequency			Limit: ppm
		420.025MHz	435.025MHz	449.975 MHz	
50	DC 3.70V	0.503	0.927	1.012	2.5
40	DC 3.70V	0.962	0.980	0.609	
30	DC 3.70V	0.859	0.644	0.826	
20	DC 3.70V	0.749	0.902	0.612	
10	DC 3.70V	0.639	0.796	0.863	
0	DC 3.70V	1.087	0.763	0.576	
-10	DC 3.70V	1.091	0.843	1.037	
-20	DC 3.70V	0.705	0.628	0.560	
-30	DC 3.70V	0.720	1.002	0.517	
Result	Pass				

Environment Temperature(°C)	Power Supply (V)	Reference Frequency			Limit: ppm
		420.025MHz	435.025MHz	449.975 MHz	
50	DC 3.15V	0.916	0.807	0.879	2.5
40	DC 3.15V	0.407	0.665	0.712	
30	DC 3.15V	0.338	0.431	0.921	
20	DC 3.15V	0.530	0.321	0.855	
10	DC 3.15V	0.847	0.705	0.877	
0	DC 3.15V	0.563	0.671	0.501	
-10	DC 3.15V	0.525	0.781	0.531	
-20	DC 3.15V	0.739	0.595	0.586	
-30	DC 3.15V	0.442	0.864	0.975	
Result	Pass				

Environment Temperature(°C)	Power Supply (V)	Reference Frequency			Limit: ppm
		420.025MHz	435.025MHz	449.975MHz	
50	DC 4.26V	0.535	0.509	0.624	2.5
40	DC 4.26V	0.361	0.502	0.900	
30	DC 4.26V	0.392	0.985	0.958	
20	DC 4.26V	0.912	0.990	0.843	
10	DC 4.26V	0.504	0.324	0.693	
0	DC 4.26V	0.970	0.607	0.315	
-10	DC 4.26V	0.388	0.918	0.980	
-20	DC 4.26V	0.454	0.605	0.898	
-30	DC 4.26V	0.814	0.760	0.349	
Result	Pass				

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**25 KHz Channel Separation**

Environment Temperature(°C)	Power Supply (V)	Reference Frequency			Limit: ppm
		420.025MHz	435.025MHz	449.975MHz	
50	DC 3.70V	0.609	0.567	1.053	2.5
40	DC 3.70V	1.018	1.001	0.682	
30	DC 3.70V	0.634	0.643	0.670	
20	DC 3.70V	0.811	1.089	0.571	
10	DC 3.70V	0.973	0.736	0.698	
0	DC 3.70V	0.699	0.560	0.857	
-10	DC 3.70V	0.936	0.947	1.029	
-20	DC 3.70V	0.571	1.095	1.055	
-30	DC 3.70V	1.006	0.994	0.568	
Result	Pass				

Environment Temperature(°C)	Power Supply (V)	Reference Frequency			Limit: ppm
		420.025MHz	435.025MHz	449.975MHz	
50	DC 3.15V	0.537	0.543	0.811	2.5
40	DC 3.15V	0.908	1.144	0.853	
30	DC 3.15V	0.740	1.062	0.776	
20	DC 3.15V	0.676	1.037	0.793	
10	DC 3.15V	0.835	0.704	0.505	
0	DC 3.15V	0.927	0.800	0.742	
-10	DC 3.15V	0.963	0.705	0.985	
-20	DC 3.15V	0.819	0.575	0.820	
-30	DC 3.15V	0.641	1.085	0.504	
Result	Pass				

Environment Temperature(°C)	Power Supply (V)	Reference Frequency			Limit: ppm
		420.025MHz	435.025MHz	449.975 MHz	
50	DC 4.26V	0.525	0.718	0.903	2.5
40	DC 4.26V	0.503	0.626	0.891	
30	DC 4.26V	0.647	0.625	1.078	
20	DC 4.26V	0.959	0.573	1.096	
10	DC 4.26V	0.680	0.709	1.069	
0	DC 4.26V	0.748	0.729	0.763	
-10	DC 4.26V	0.679	0.763	0.822	
-20	DC 4.26V	1.098	0.598	0.963	
-30	DC 4.26V	0.687	1.061	1.084	
Result	Pass				

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## 8. EMISSION BANDWIDTH

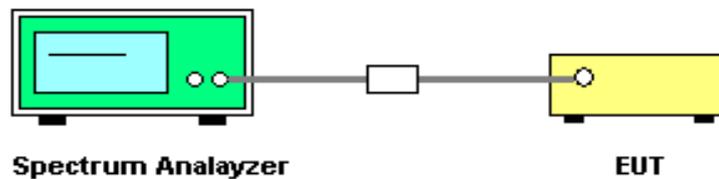
### 8.1 PROVISIONS APPLICABLE

According to FCC Part 97 Section 97.305: The authorized bandwidth shall be 100 KHz

### 8.2 MEASUREMENT PROCEDUR

- 1). The EUT was modulated by 2.5 KHz Sine wave audio signal, The level of the audio signal employed is 16 dB greater than that necessary to produce 50% of rated system deviation. Rated system deviation is 2.5 kHz (12.5 kHz channel spacing).
- 2). Set SPA Center Frequency = fundamental frequency, RBW=100 Hz, VBW= 300 Hz, Span =50 KHz.
- 3). Set SPA Max hold. Mark peak, -26 dB.

### 8.3 TEST SETUP BLOCK DIAGRAM

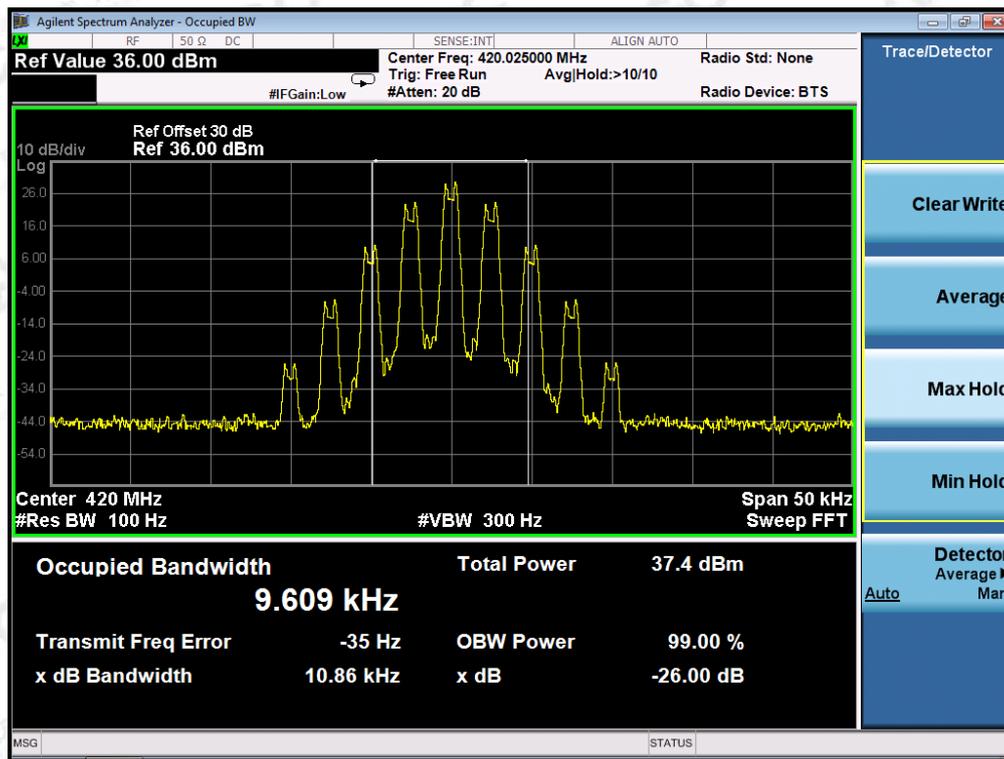


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**8.4 MEASUREMENT RESULT**

26 dB Bandwidth Measurement Result			
Operating Frequency	12.5 KHz Channel Separation		
	Test Data	Limits	Result
420.025MHz	10.86 KHz	100 KHz	Pass

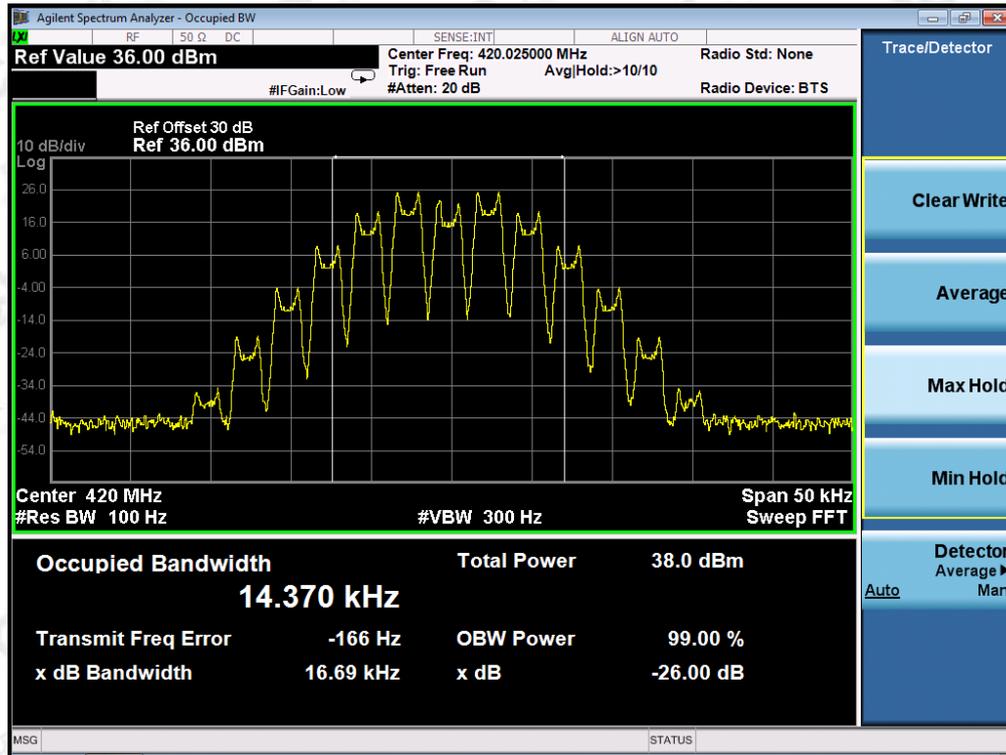
**Occupied bandwidth of Top Channel (Maximum) @ 12.5 KHz Channel Separation-2W**



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26 dB Bandwidth Measurement Result			
Operating Frequency	25 KHz Channel Separation		
	Test Data	Limits	Result
420.025MHz	16.69 KHz	100 KHz	Pass

**Occupied bandwidth of Top Channel (Maximum) @ 25 KHz Channel Separation-2W**



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## 9. UNWANTED RADIATION

### 9.1 PROVISIONS APPLICABLE

- (1) No amateur station transmission shall occupy more bandwidth than necessary bandwidth for the information rate and emission type being transmitted, in accordance with good amateur practice.
- (2) Emissions resulting from modulation must be confined to the band or segment available to the control operator. Emissions outside the necessary bandwidth must not cause splatter or key click interference to operations on adjacent frequencies.
- (3) The mean power of any spurious emissions from a station transmitter or external RF power amplifier transmitting on a frequency between 30-225 MHz must be at least 60dB below the mean power of the fundamental. For a transmitter having a mean power of 22W or less, the mean power of any spurious emission supplied to the antenna transmission line must not exceed 25 uW and must be at least 40dB below the mean power of the fundamental emission, but need not be reduced below the power of 10uW.

### 9.2 MEASUREMENT PROCEDURE

- (1) On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by

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the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.

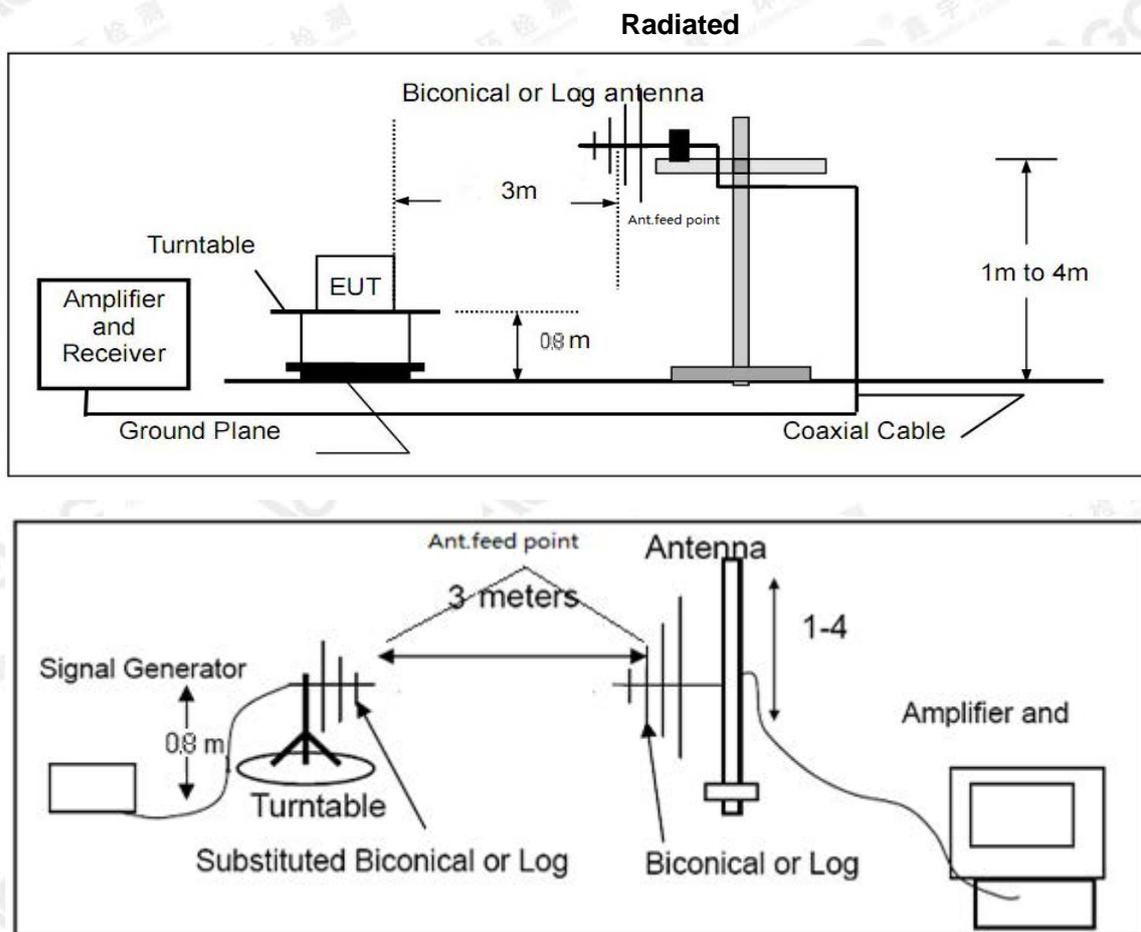
(16)The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.

(17)The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

### 9.3 TEST SETUP BLOCK DIAGRAM

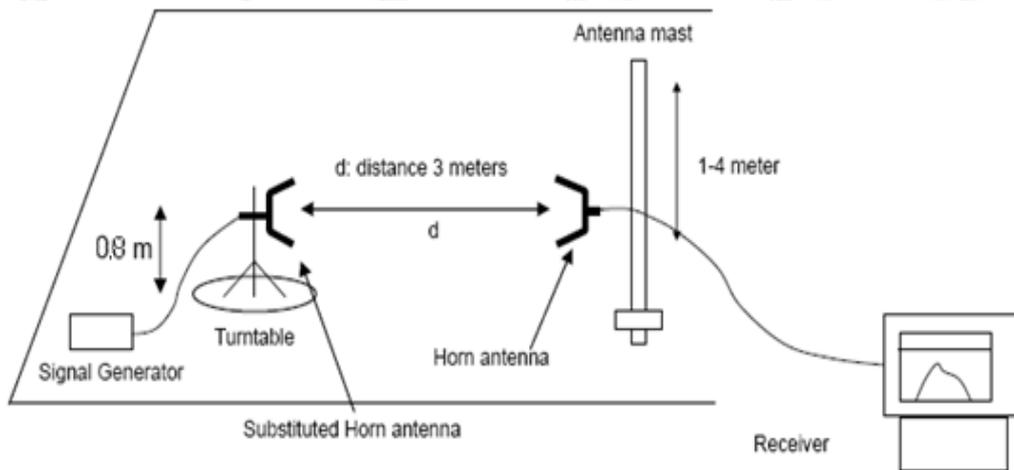
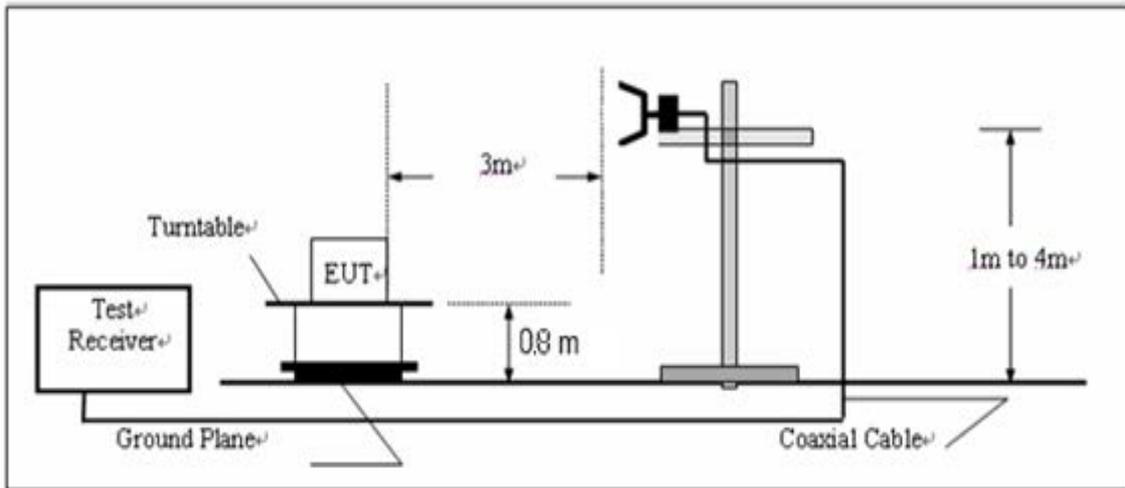
#### SUBSTITUTION METHOD: (Radiated Emissions)

##### Radiated Below 1GHz



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**Radiated Above 1 GHz**



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**9.4 MEASUREMENT RESULTS:**

## Measurement Result for 12.5/25 KHz Channel Separation

Limit is at least 60dB below the mean power of the fundamental. For a transmitter having a mean power of 22W or less, the mean power of any spurious emissions supplied to the antenna transmission line must not exceed 25uW and must be at least 40dB below the mean power of the fundamental emission.

## Bottom Channel

Frequency	Reading level	Antenna	S.G.	Cable loss	Correction	Emission level	Limit	Margin
(MHz)	(dBuV)	Polarization	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
--	--	--	--	--	--	--	-16	--

## Middle Channel

Frequency	Reading level	Antenna	S.G.	Cable loss	Correction	Emission level	Limit	Margin
(MHz)	(dBuV)	Polarization	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
--	--	--	--	--	--	--	-16	--

## Top Channel

Frequency	Reading level	Antenna	S.G.	Cable loss	Correction	Emission level	Limit	Margin
(MHz)	(dBuV)	Polarization	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
--	--	--	--	--	--	--	-16	--

Notes: "--" means that the emission level is too low to be measured or at least 20 dB down than the limit.

## 10. MODULATION CHARACTERISTICS

### 10.1 PROVISIONS APPLICABLE

According to CFR 47 section 2.1047(a), for Voice Modulation Communication Equipment, the frequency response of the audio modulation circuit over a range of 100 to 5000Hz shall be measured.

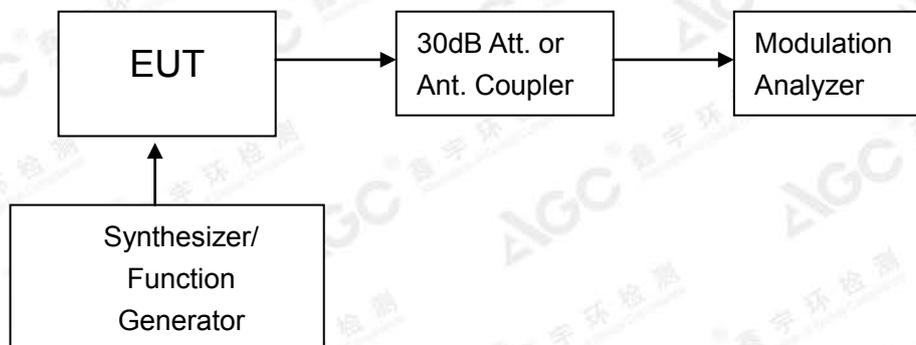
### 10.2 MEASUREMENT METHOD

#### 10.2.1 Modulation Limit

- (1). Configure the EUT as shown in figure 1, adjust the audio input for 60% of rated system deviation at 1KHz using this level as a reference (0dB) and vary the input level from -20 to +20dB. Record the frequency deviation obtained as a function of the input level.
- (2). Repeat step 1 with input frequency changing to 300, 1000, 1500 and 3000Hz in sequence.

#### 10.2.2 Audio Frequency Response

- (1). Configure the EUT as shown in figure 1.
- (2). Adjust the audio input for 20% of rated system deviation at 1 KHz using this level as a reference (0 dB).
- (3). Vary the Audio frequency from 100 Hz to 10 KHz and record the frequency deviation.
- (4). Audio Frequency Response =  $20\log_{10}(\text{Deviation of test frequency}/\text{Deviation of 1 KHz reference})$ .



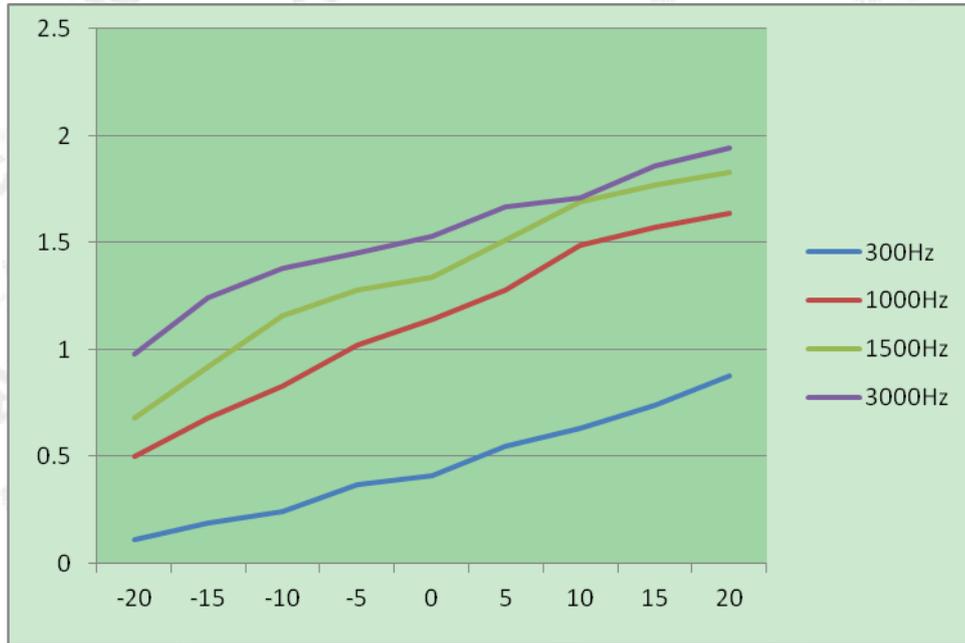
**Figure 1: Modulation characteristic measurement configuration**

**10.3 MEASUREMENT RESULT**

**(A). MODULATION LIMIT:**

**Middle Channel @ 12.5 KHz Channel Separations-H Power**

Modulation Level (dB)	Peak Freq. Deviation At 300 Hz	Peak Freq. Deviation At 1000 Hz	Peak Freq. Deviation At 1500 Hz	Peak Freq. Deviation At 3000 Hz
-20	0.11	0.50	0.68	0.98
-15	0.19	0.68	0.92	1.24
-10	0.24	0.83	1.16	1.38
-5	0.37	1.02	1.28	1.45
0	0.41	1.14	1.34	1.53
+5	0.55	1.28	1.51	1.67
+10	0.63	1.49	1.69	1.71
+15	0.74	1.57	1.77	1.86
+20	0.88	1.64	1.83	1.94



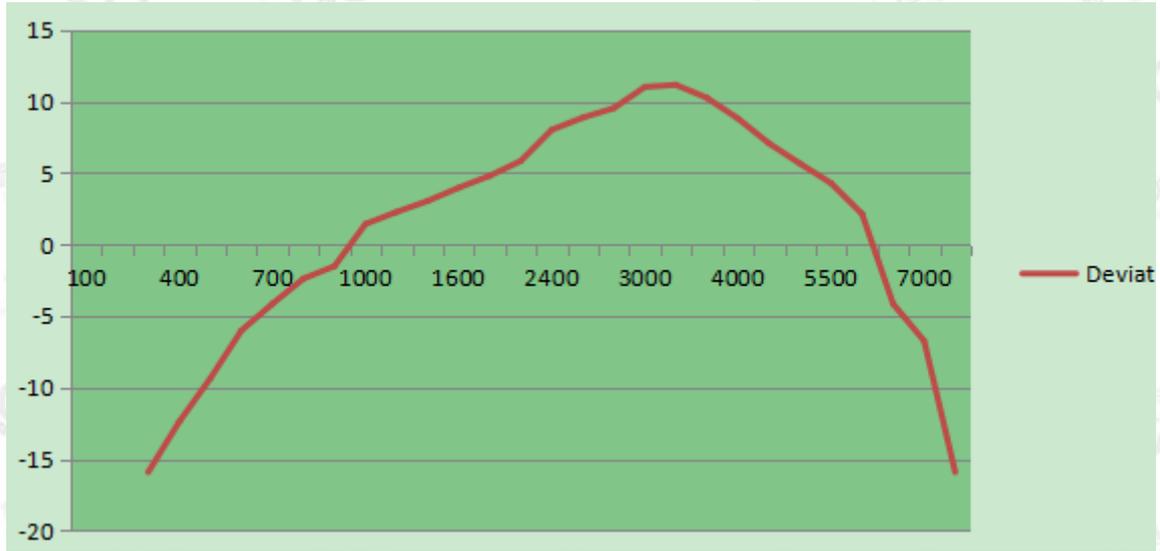
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**(B). AUDIO FREQUENCY RESPONSE:**
**Middle Channel @ 12.5 KHz Channel Separations**

Frequency (Hz)	Deviation (KHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.09	-14.89
400	0.11	-13.15
500	0.15	-10.46
600	0.2	-7.96
700	0.27	-5.35
800	0.36	-2.85
900	0.44	-1.11
1000	0.51	0.17
1200	0.59	1.44
1400	0.68	2.67
1600	0.71	3.05
1800	0.85	4.61
2000	0.98	5.85
2400	1.11	6.93
2500	1.35	8.63
2800	1.41	9.00
3000	1.63	10.26
3200	1.58	9.99
3600	1.29	8.23
4000	0.95	5.58
4500	0.88	4.91
5000	0.67	2.54
5500	0.47	-0.54
6000	0.26	-5.68
6500	0.12	-12.40
7000	0.08	-15.92
7500	0.04	-21.94
9000	--	--
10000	--	--
14000	--	--
18000	--	--
20000	--	--
30000	--	--

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**Frequency Response of Middle Channel**



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## 11. MAXIMUM TRANSMITTER POWER

### 11.1 PROVISIONS APPLICABLE

Per FCC §2.1046 and §97.313: No station may transmit with a transmitter power exceeding 1.5 kW PEP.

### 11.2 TEST PROCEDURE

The RF output of Two-way Radio was conducted to a spectrum analyzer through an appropriate attenuator.

### 11.3 TEST CONFIGURATION



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**11.4 TEST RESULT**

The maximum Conducted Power (CP) is

H; 2W/ L: 1W for 12.5 KHz/25 KHz Channel Separation

Calculation Formula:  $CP = R + A + L$

\* Note:

CP: The final Conducted Power

R : The reading value from spectrum analyzer

A : The attenuation value of the used attenuator

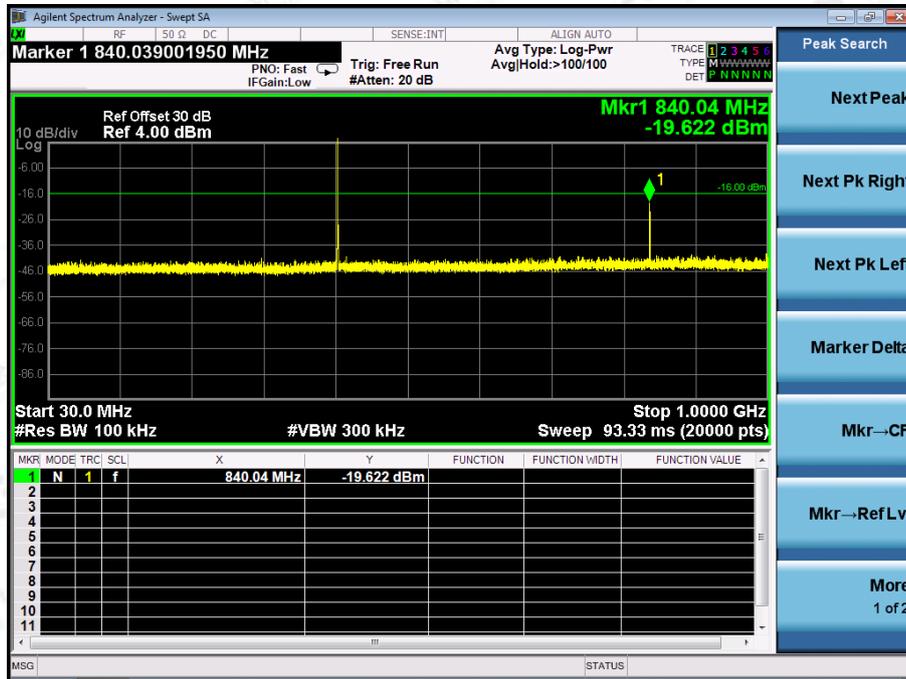
L : The loss of all connection cables

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(2W)
12.5 KHz	Bottom(420.025MHz)	36.86
	Middle(435.025MHz)	36.71
	Top (449.975MHz)	36.77
25 KHz	Bottom(420.025MHz)	36.70
	Middle(435.025MHz)	36.89
	Top (449.975MHz)	36.82

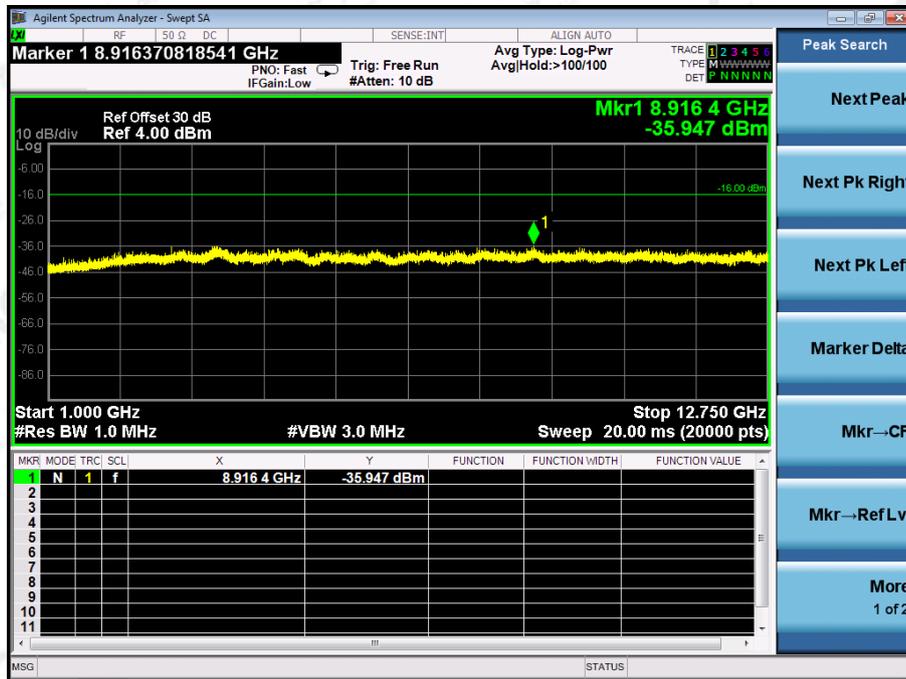
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11.5 CONDUCT SPURIOUS PLOT

**Conducted Spurious Emission (worst) @ 420.025MHz With 12.5 KHz Channel Separation-2W**  
30MHz-1GHz



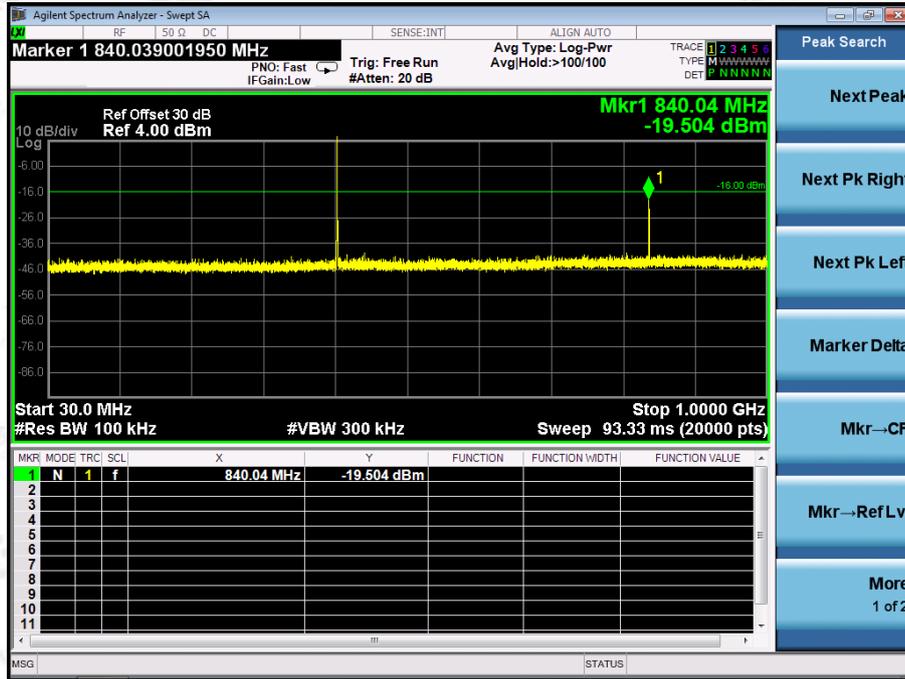
**Conduct Spurious Emission (worst) @ 420.025MHz With 12.5 KHz Channel Separation-2W**  
1GHz-12.75GHz



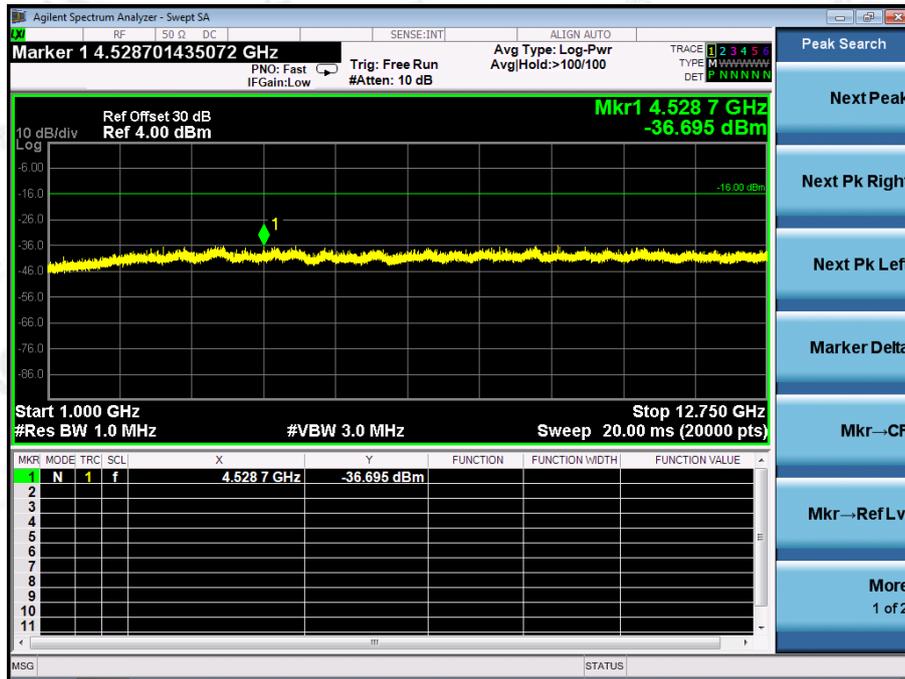
**Note:** All the test frequencies had been tested, but only the worst data (bottom channel) recorded in the report.

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**Conducted Spurious Emission (worst) @ 420.025MHz With 25 KHz Channel Separation-2W**  
30MHz-1GHz



**Conduct Spurious Emission (worst) @ 420.025MHz With 25 KHz Channel Separation-2W**  
1GHz-12.75GHz



**Note:** All the test frequencies had been tested, but only the worst data (bottom channel) recorded in the report.

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## 12. RADIATED EMISSION ON RECEIVING MODE

### 12.1 PROVISIONS APPLICABLE

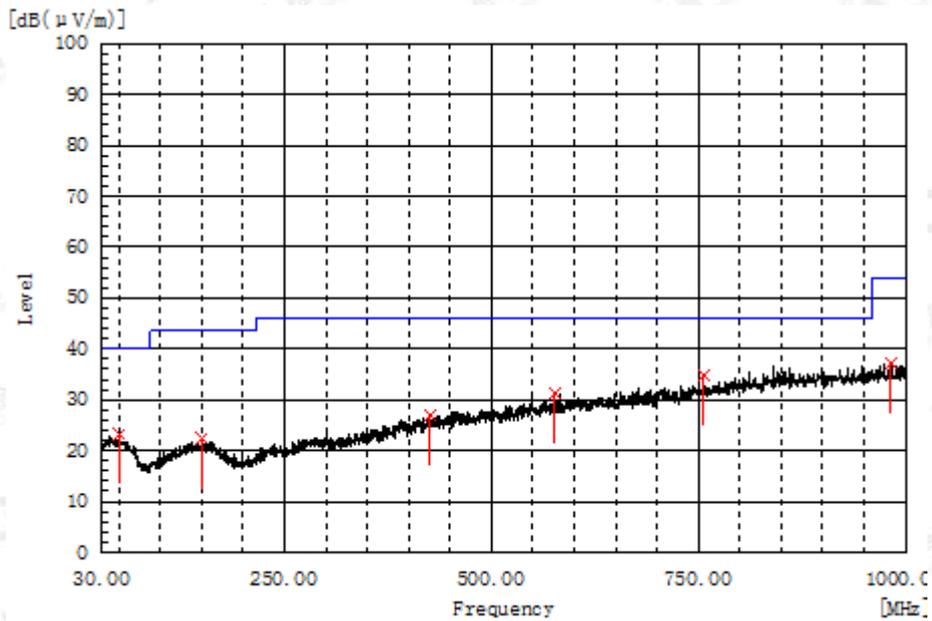
FCC Part 15 Subpart B Section 15.109

### 12.2 TEST METHOD

ANSI C 63.4: 2014

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**12.3 MEASURE RESULT (MEASURED AT 3M USING FCC PART15 B LIMITS)**  
**RADIATED EMISSION TEST RESULTS – HORIZONTAL**

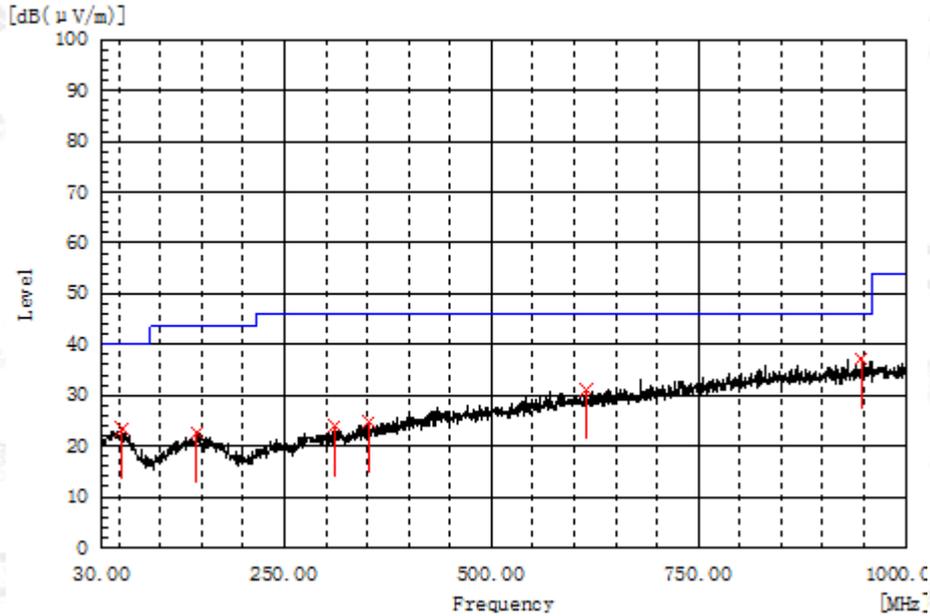


Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
51.340	H	6.3	17.0	23.3	40.0	16.7	Pass	200.0	87.3
149.795	H	5.8	16.6	22.4	43.5	21.1	Pass	150.0	178.5
426.245	H	5.5	21.6	27.1	46.0	18.9	Pass	200.0	46.3
576.595	H	6.8	24.5	31.3	46.0	14.7	Pass	200.0	87.3
756.045	H	7.1	27.7	34.8	46.0	11.2	Pass	200.0	336.9
982.540	H	6.3	31.0	37.3	54.0	16.7	Pass	100.0	107.5

**RESULT:PASS**

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RADIATED EMISSION TEST RESULTS – VERTICAL



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
53.280	V	6.6	16.8	23.4	40.0	16.6	Pass	200.0	307.5
144.460	V	6.0	16.6	22.6	43.5	20.9	Pass	100.0	71.6
309.845	V	6.4	17.6	24.0	46.0	22.0	Pass	200.0	344.1
353.010	V	5.8	19.0	24.8	46.0	21.2	Pass	150.0	178.8
614.910	V	6.0	25.2	31.2	46.0	14.8	Pass	200.0	270.3
946.650	V	6.5	30.6	37.1	46.0	8.9	Pass	100.0	181.5

**RESULT:PASS**

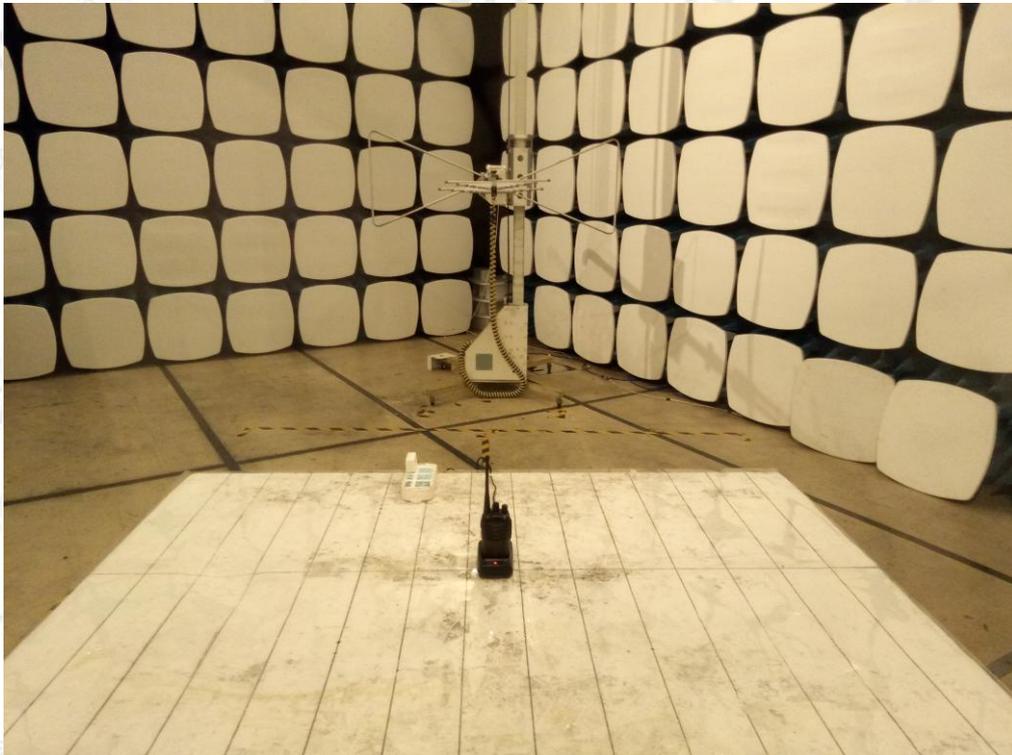
**NOTE:** The test results of above 1G are all 20 dB margin below the limits.

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**APPENDIX 1: PHOTOGRAPHS OF SETUP**  
CONDUCTED EMISSION TEST SETUP



RADIATED EMISSION TEST SETUP-Below 1GHz



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## APPENDIX 2: EXTERNAL VIEW OF EUT

### TOTAL VIEW OF EUT



### TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



OPEN VIEW-1 OF EUT

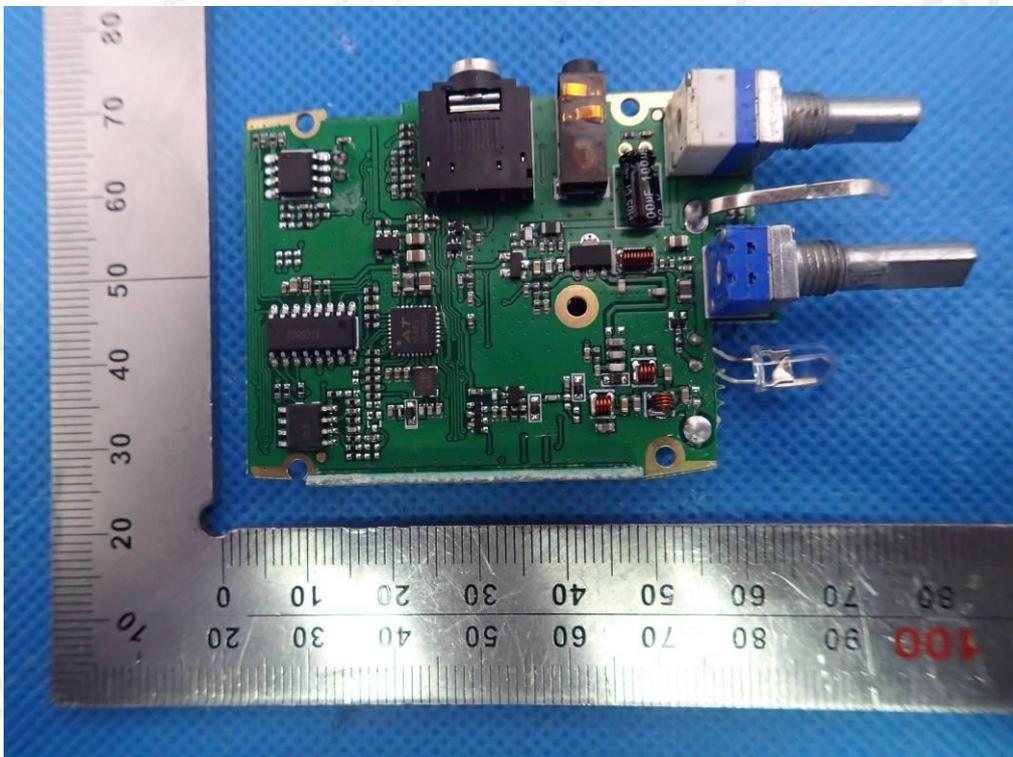


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INTERNAL VIEW-1 OF EUT

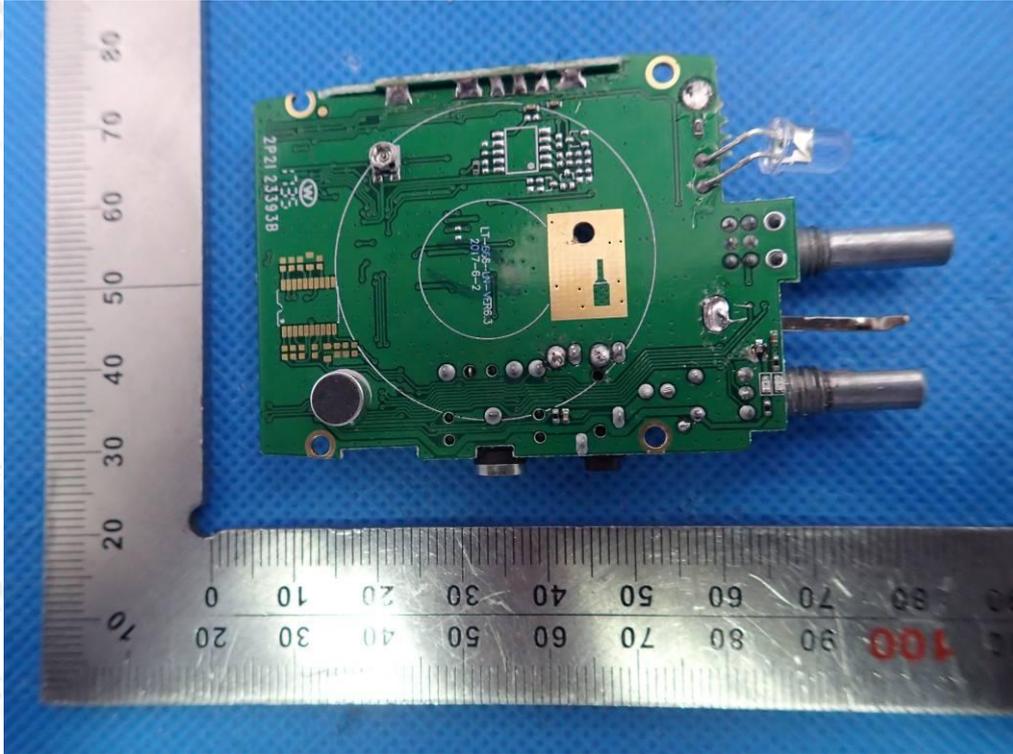


INTERNAL VIEW-2 OF EUT

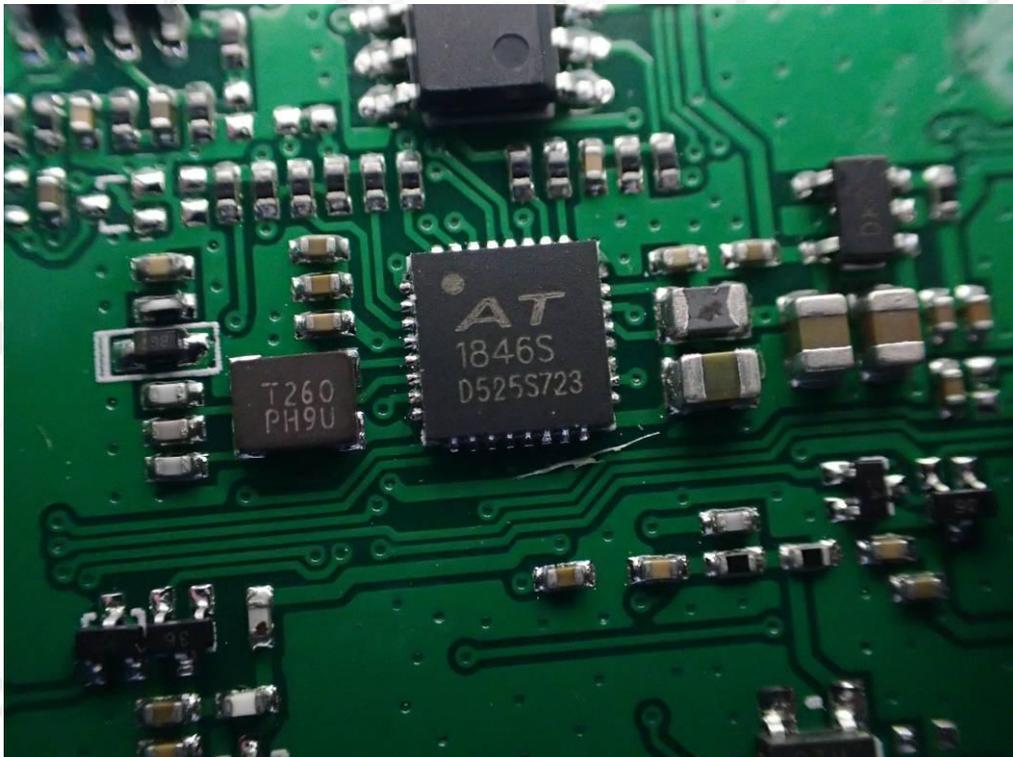


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INTERNAL VIEW-3 OF EUT



INTERNAL VIEW-4 OF EUT



----END OF REPORT----

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