

# **FCC PART 95**

# **MEASUREMENT AND TEST REPORT**

For

# PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY

3/F FULOK BLDG 131-133 WING LOK ST SHEUNG WAN HONGKONG

FCC ID: 2AJGM-BF-T3

Report Type:		Product Type:
Original Report		Walkie Talkie
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Report Number:	RXM161104	053
Report Date:	2017-04-12	
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# **GENERAL INFORMATION**

### **Product Description for Equipment Under Test (EUT)**

The **PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY**'s product, model number: **BF-T3 (FCC ID: 2AJGM-BF-T3 )** or the "EUT" in this report was a **Walkie Talkie**, which was measured approximately: 14.1 cm (L) x 5.2 cm (W) x 2.8 cm (H), rated input voltage: DC 6V from battery.

Note: The series product, model BF-T3, T-388, pofung T30, TC388, RT-388, UN388 are electrically identical, the differences between them are the different dealers, the product brand and model name, we selected BF-T3 for fully testing, the details was explained in the attached declaration letter.

\*All measurement and test data in this report was gathered from final production sample, serial number: 161104053 (assigned by the BACL, Chengdu). It may have deviation from any other sample. The EUT supplied by the applicant was received on 2016-11-05, and EUT conformed to test requirement.

#### Objective

This report is prepared on behalf of *PO FUNG ELECTRONIC(HK) INTERNATIOANL GROUP COMPANY* in accordance with Part 2 and Part 95, Subpart B & Subpart E of the Federal Communication Commissions rules.

### Related Submittal(s)/Grant(s)

No related submittal(s).

#### **Test Methodology**

All tests and measurements indicated in this document were performed in accordance with Part 95 Subpart B and Subpart E of the Federal Communication Commissions rules with TIA-603-D, Land Mobile FM or PM-Communications Equipment-Measurement and Performance Standards.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Chengdu). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

# **Test Facility**

The test site used by BACL to collect test data is located in the No.5040, Huilongwan Plaza, No.1, Shawan Road, Jinniu District, Chengdu, Sichuan, China.

Test site at BACL has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on April 24, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 560332. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

# SYSTEM TEST CONFIGURATION

# **Description of Test Configuration**

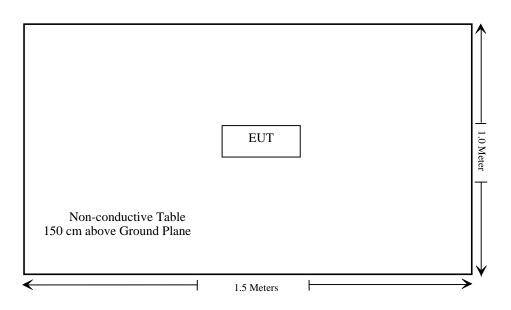
The system was configured for testing in a typical fashion (as normally used by a typical user). The device is a FRS device operates on channel 1-7:

Channel No.	(MHz)
1	462.5625
2	462.5875
3	462.6125
4	462.6375
5	462.6625
6	462.6875
7	462.7125

# **Equipment Modifications**

No modification was made to the EUT tested.

# **Block Diagram of Test Setup**



# SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§2.1093	RF Exposure	Compliance
§2.1046, §95.639(d)	RF Output Power	Compliance
§2.1047, §95.637(a)	Modulation Characteristic	Compliance
§2.1049, §95.633(c) §95.635(b)(1)(3)(7)	Authorized Bandwidth & Emission Mask	Compliance
§2.1053, §95.635	Spurious Radiated Emissions	Compliance
§2.1055(d), §95.626(b)	Frequency Stability	Compliance

# FCC §2.1093 - RF EXPOSURE INFORMATION

## **Applicable Standard**

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

## **Test Result**

Please refer to SAR Report Number: RXM161104053-20.

# FCC §2.1046, §95.639(D) - RF OUTPUT POWER

## **Applicable Standard**

Per FCC §2.1046, and §95.639(d), No FRS Unit, under any condition of modulation, shall exceed a 0.5 W effective radiated power (ERP).

## **Test Procedure**

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the emissions were measured by the substitution.

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	RF Communications Test Set	8920A	00 247	2016-08-10	2017-08-10
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2015-12-02	2016-12-01
Sunol Sciences	Broadband Antenna	JB3	A121808	2016-04-10	2019-04-09
EMCO	Adjustable Dipole Antenna	3121C	9109-258	N/A	N/A
HP	Signal Generator	8648C	3623A04150	2016-05-23	2017-05-22
EMCT	Semi-Anechoic Chamber	966	966-1	2015-04-24	2018-04-23
Unknown	RF Cable (below 1GHz)	Unknown	NO.1	2016-11-10	2017-11-09
Unknown	RF Cable (below 1GHz)	Unknown	NO.4	2016-11-10	2017-11-09

# **Test Equipment List and Details**

\* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

### **Test Data**

#### **Environmental Conditions**

Temperature:	<b>19</b> ℃
<b>Relative Humidity:</b>	58 %
ATM Pressure:	96 kPa

The testing was performed by Lorin Bian on 2016-11-22.

Test Mode: Transmitting

#### ERP:

		Dessiver	Su	Ibstituted Me	ethod	Abaaluta		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			freq	uency: 462.6	6375 MHz			
462.6375	Н	92.08	10.8	0.0	0.7	10.1	27.00	16.9
462.6375	V	102.27	23.9	0.0	0.7	23.2	27.00	3.8

Test Result: Compliance.

# FCC §2.1047 & §95.637(a) - MODULATION CHARACTERISTIC

#### **Applicable Standard**

Per FCC §2.1047 and §95.637(a): A GMRS transmitter that transmits emission type F3E must not exceed a peak frequency deviation of plus or minus 5 kHz. A FRS unit that transmits emission type F3E must not exceed a peak frequency deviation of plus or minus 2.5 kHz, and the audio frequency response must not exceed 3.125 kHz.

Each GMRS transmitter, except a mobile station transmitter with a power output of 2.5 W or less, must automatically prevent a greater than normal audio level from causing over-modulation. The transmitter also must include audio frequency low pass filtering, unless it complies with the applicable paragraphs of § 95.631 (without filtering.) The filter must be between the modulation limiter and the modulated stage of the transmitter. At any frequency (f in kHz) between 3 and 20 kHz, the filter must have an attenuation of at least 60 log 10 (f/3) dB greater than the attenuation at 1 kHz. Above 20 kHz, it must have an attenuation of at least 50 dB greater than the attenuation at 1 kHz.

### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	RF Communications Test Set	8920A	00 247	2016-08-10	2017-08-09
LEADER	Millivoltmeter	LMV-181A	601561	2016-08-10	2017-08-09
Unknown	RF Attenuator	Unknown	20dB	Each Time	/

\* Statement of Traceability: BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

#### **Test Procedure**

Test Method: TIA/EIA-603-D

# **Test Data**

#### **Environmental Conditions**

Temperature:	19.5 °C
<b>Relative Humidity:</b>	52 %
ATM Pressure:	95.3 kPa

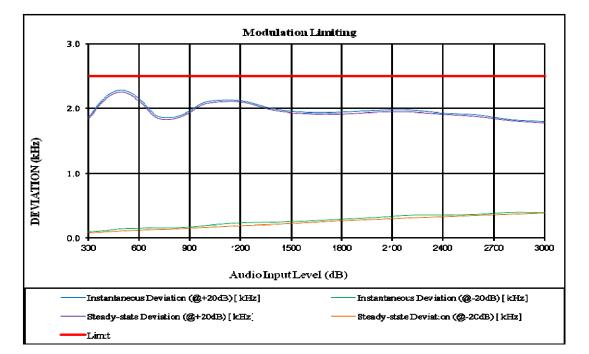
The testing was performed by Lorin Bian on 2017-04-08.

Please refer to the following tables and plots.

Test Mode: Transmitting

#### MODULATION LIMITING

		462.6375 MH	Ηz		
	Instant	aneous	Stead	y-state	
Audio Frequency (Hz)	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	Limit [kHz]
300	1.857	0.095	1.836	0.083	2.5
400	2.173	0.114	2.141	0.097	2.5
500	2.286	0.146	2.252	0.113	2.5
600	2.153	0.152	2.116	0.124	2.5
700	1.894	0.161	1.866	0.136	2.5
800	1.862	0.159	1.838	0.141	2.5
900	1.956	0.172	1.937	0.157	2.5
1000	2.105	0.195	2.077	0.169	2.5
1200	2.124	0.233	2.103	0.195	2.5
1400	1.989	0.243	1.969	0.212	2.5
1600	1.937	0.262	1.921	0.238	2.5
1800	1.941	0.291	1.917	0.269	2.5
2000	1.968	0.317	1.943	0.289	2.5
2200	1.974	0.354	1.947	0.313	2.5
2400	1.927	0.357	1.913	0.331	2.5
2600	1.902	0.368	1.878	0.353	2.5
2800	1.826	0.399	1.814	0.371	2.5
3000	1.796	0.396	1.778	0.389	2.5



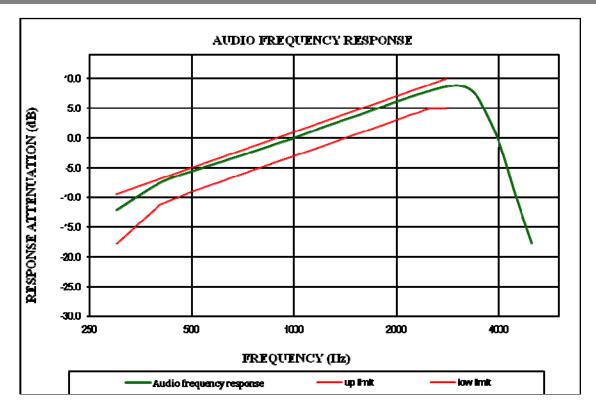
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# Audio Frequency Response

# 462.6375 MHz

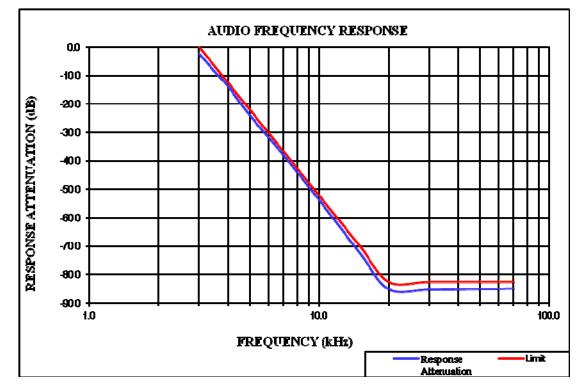
Audio Frequency (Hz)	Response Attenuation (dB)
300	-12.16
400	-7.63
500	-5.61
600	-4.15
700	-2.92
800	-1.82
900	-0.85
1000	0.00
1200	1.71
1400	3.04
1600	4.13
1800	5.21
2000	6.15
2200	6.95
2400	7.63
2600	8.21
2800	8.67
3000	8.85
3125	8.73
3200	8.57
3300	8.14
3400	7.46
3500	6.53
4000	-0.61
4500	-10.02
5000	-17.69



#### **Audio Low Pass Filter Response**

462.6375 MHz

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
3.0	-2.4	0.0
3.5	-8.6	-6.7
4.0	-13.8	-12.5
5.0	-24.2	-22.2
7.0	-38.1	-36.8
10.0	-53.9	-52.3
15.0	-72.4	-69.9
20.0	-85.1	-82.5
30.0	-85.3	-82.5
50.0	-85.1	-82.5
70.0	-84.9	-82.5



# FCC §2.1049 , §95.633(C), §95.635(b)(1)(3)(7)- AUTHOURIZED BANDWIDTH AND EMISSION MASK

### Applicable Standard

According to §95.633

(c) The authorized bandwidth for emission type F3E or F2D transmitted by a FRS unit is 12.5 kHz.

#### According to §95.635(b)(1)(3)(7)

(b) The power of each unwanted emission shall be less than TP as specified in the applicable paragraphs listed in the following table:

Transmitter	Emission type	Applicable paragraphs (b)
GMRS	A1D, A3E, F1D, G1D, F3E, G3E with filtering	(1), (3), (7).
	A1D, A3E, F1D, G1D, F3E, G3E without filtering	(5), (6), (7).
	H1D, J1D, R1D, H3E, J3E, R3E	(2), (4), (7).
FRS	F3E with filtering	(1), (3), (7).
R/C:		
27 MHz	As specified in §95.631(b)	(1), (3), (7).
72-76 MHz	As specified in §95.631(b)	(1), (3), (7), (10), (11), (12).
СВ	A1D, A3E	(1), (3), (8), (9).
	H1D, J1D, R1D, H3E, J3E, R3E	(2), (4), (8), (9).
	A1D, A3E type accepted before September 10, 1976	(1), (3), (7).
	H1D, J1D, R1D, H3E, J3E, R3E type accepted before September 10, 1986	(2), (4), (7).
LPRS	As specified in paragraph (c).	
MedRadio	As specified in paragraph (d).	
DSRCS-OBU	As specified in paragraph (f) of this section.	

(1) At least 25 dB (decibels) on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth.

(3) At least 35 dB on any frequency removed from the center of the authorized bandwidth by more than 100% up to and including 250% of the authorized bandwidth.

(7) At least  $43 + 10 \log_{10}$  (T) dB on any frequency removed from the center of the authorized bandwidth by more than 250%.

#### **Test Procedure**

TIA-603-D, section 2.2.11

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
HP	RF Communications Test Set	8920A	00 247	2016-08-10	2017-08-09
Unknown	RF Attenuator	Unknown	20dB	Each Time	/

# **Test Equipment List and Details**

\* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

### Test Data

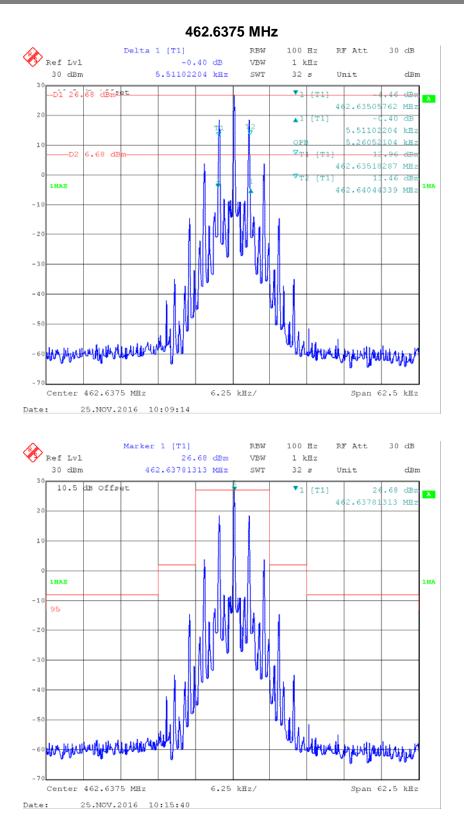
#### **Environmental Conditions**

Temperature:	<b>18</b> ℃
<b>Relative Humidity:</b>	52 %
ATM Pressure:	94.9 kPa

The testing was performed by Lorin Bian on 2016-11-25.

Test Mode: Transmitting

Modulation Mode	fc	99% Occupied Bandwidth	20 dB Bandwidth	Limit
	MHz	kHz	kHz	kHz
FM	462.6375	5.261	5.511	12.5



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# FCC §2.1053 & §95.635 - RADIATED SPURIOUS EMISSION

#### **Applicable Standard**

FCC §2.1053 and §95.635

#### **Test Procedure**

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB =10 1g (TXpwr in Watts/0.001)-the absolute level Spurious attenuation limit in dB =  $43+10 \text{ Log}_{10}$  (power out in Watts)

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Amplifier	8447D	2944A10442	2016-12-02	2017-12-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2016-12-02	2017-12-01
Sunol Sciences	Broadband Antenna	JB3	A121808	2016-04-10	2019-04-09
Rohde & Schwarz	Spectrum Analyzer	FSEM30	100018	2016-12-02	2017-12-01
ETS	Horn Antenna	3115	003-6076	2016-12-02	2017-12-01
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-011 3024	2014-06-16	2017-06-15
EMCO	Adjustable Dipole Antenna	3121C	9109-258	N/A	N/A
HP	Signal Generator	8648C	3623A04150	2016-05-23	2017-05-22
WILTRON	SWEPT FREQUENCY SYNTHESIZER	6737	213001	2016-05-23	2017-05-22
Mini-circuits	Amplifier	ZVA-183-S+	771001215	2016-05-20	2017-05-19
EMCT	Semi-Anechoic Chamber	966	966-1	2015-04-24	2018-04-23
Unknown	RF Cable(below 1GHz)	Unknown	NO.1	2016-11-10	2017-11-09
Unknown	RF Cable(below 1GHz)	Unknown	NO.4	2016-11-10	2017-11-09
Unknown	RF Cable(above 1GHz)	Unknown	NO.2	2016-11-10	2017-11-09

# Test Equipment List and Details

\* Statement of Traceability: BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

#### **Test Data**

#### **Environmental Conditions**

Temperature:	<b>21</b> ℃	
Relative Humidity:	56 %	
ATM Pressure:	96 kPa	

The testing was performed by Lorin Bian on 2017-03-31.

Test Mode: Transmitting

#### 30MHz-5GHz:

		Dessiver	Su	bstituted Me	ethod	Absolute		- -
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Level (dBm)		Margin (dB)
			freque	ency: 462.63	75 MHz			
925.275	Н	43.21	-30.5	0.0	1	-31.5	-13.0	18.5
925.275	V	43.92	-26.5	0.0	1	-27.5	-13.0	14.5
1387.913	Н	58.05	-42.6	8.9	1.5	-35.2	-13.0	22.2
1387.913	V	60.43	-39.9	8.9	1.5	-32.5	-13.0	19.5
1850.550	Н	50.43	-49.2	11.4	1.4	-39.2	-13.0	26.2
1850.550	V	52.37	-47.2	11.4	1.4	-37.2	-13.0	24.2
2313.188	Н	59.44	-36.9	11.4	2.4	-27.9	-13.0	14.9
2313.188	V	60.58	-35.2	11.4	2.4	-26.2	-13.0	13.2
2775.825	Н	57.43	-40.5	13.1	2.3	-29.7	-13.0	16.7
2775.825	V	59.65	-38.7	13.1	2.3	-27.9	-13.0	14.9
3238.463	Н	59.14	-38.3	13.6	2.2	-26.9	-13.0	13.9
3238.463	V	60.34	-36.4	13.6	2.2	-25.0	-13.0	12.0
3701.100	Н	49.35	-45.4	14.0	2.4	-33.8	-13.0	20.8
3701.100	V	52.78	-41.6	14.0	2.4	-30.0	-13.0	17.0
4163.738	Н	44.62	-50.1	13.9	2.8	-39.0	-13.0	26.0
4163.738	V	48.52	-45.9	13.9	2.8	-34.8	-13.0	21.8
4626.375	Н	48.37	-44.3	14.3	2.8	-32.8	-13.0	19.8
4626.375	V	51.79	-41.6	14.3	2.8	-30.1	-13.0	17.1
5089.013	Н	38.65	-52.5	13.9	2.7	-41.3	-13.0	28.3
5089.013	V	41.52	-50.6	13.9	2.7	-39.4	-13.0	26.4
5551.650	Н	39.47	-51.4	14.0	2.7	-40.1	-13.0	27.1
5551.650	V	40.87	-50.5	14.0	2.7	-39.2	-13.0	26.2

# FCC§2.1055 (d)& §95.626(b) - FREQUENCY STABILITY

# Applicable Standard

According to FCC §2.1055(a) (1), the frequency stability shall be measured with variation of ambient temperature from -30 °C to +50 °C, and according to FCC 2.1055(d) (2), the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point which is specified by the manufacturer.

According to FCC §95.626(b)

(b) Each FRS unit must be maintained within a frequency tolerance of 0.00025%.

#### **Test Procedure**

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Frequency Counter via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Frequency Counter.

Frequency Stability vs. Voltage:

1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.

The output frequency was recorded for each voltage.

#### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
BACL	High Temperature Test Chamber	BTH-150	30024	2016-12-02	2017-12-01
FLUKE	Multimeter	1587	27870099	2016-12-30	2017-12-29
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
Unknown	RF Attenuator	Unknown	20dB	Each Time	/

\* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

# **Test Data**

## **Environmental Conditions**

Temperature:	<b>19.5</b> ℃	
Relative Humidity:	52 %	
ATM Pressure:	95.3 kPa	

The testing was performed by Lorin Bian on 2017-04-08.

Test Mode: Transmitting

Reference Frequency: 462.6375 MHz						
Temerature	Temerature Voltage		Frequency Error	Limit		
C	Vdc	MHz	ppm	ppm		
-30		462.637951	0.97			
-20		462.638012	1.11			
-10		462.637965	1.01			
0		462.637949	0.97			
10	6.0	462.637952	0.98			
20	6.0	462.637955	0.98	2.5		
30		462.637939	0.95	2.5		
40		462.637962	1.00			
50		462.638005	1.09			
60		462.637812	0.67			
25	4.5	462.637941	0.95			
25	6.0	462.637944	0.96			

Note: The extreme low voltage was declared by applicant.

# \*\*\*\*\* END OF REPORT \*\*\*\*\*