

FCC TEST REPORT

FCC ID : N3ITF3003WX
Applicant : Teamforce Company Limited
Address : 5FL.,No.13 , Pao-kao Rd., Hsin Tien District , New Taipei City , Taiwan
Manufacturer : Teamforce Company Limited
Address : 5FL.,No.13 , Pao-kao Rd., Hsin Tien District , New Taipei City , Taiwan
Equipment Under Test (EUT) :
Product Name : WIFI Borescope
Model No. : TF3003WX
Brand Name :
Rules : FCC CFR47 Part 15 Section 15.247&15.209:2010
Date of Test : June 7 ~ June 13, 2012
Date of Issue : June 13, 2012
Test Result : PASS*

Remark:

* The sample detailed above has been tested to the requirements of FCC rules mentioned above.
The test results have been reviewed against the directives above and found to meet their essential requirements.

Prepared By:

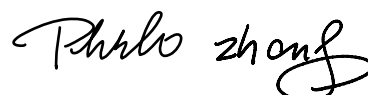
Waltek Services (Shenzhen) Co., Ltd.
12B, West Tower, Aidi Building, No.5003, Binhe Road, Futian District,
Shenzhen, Guangdong, China
Testing location: 1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District,
Shenzhen 518105, China
Tel : +86-755-83551033
Fax: +86-755-83552400

Compiled by:



Zero Zhou / Project Engineer

Approved by:



Philo Zhong / Manager

2 Test Summary

Test Items	Test Requirement	Operation Mode	Result
Radiated Spurious Emissions (9KHz to 25GHz)	15.205(a) 15.109&15.209(a)	1-9	Complies
Conduct Emission	15.107&15.207(a)	10	Complies
6dB Bandwidth	15.247(a)(2)	1-9	Complies
Maximum Peak Output Power	15.247(b)(3),(4)	1-9	Complies
Power spectral density	15.247(e)	1-9	Complies
Band edge compliance	15.247(d)	1,3,4,6,7,9	Complies
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	1-9	Complies

Operation mode	Description of Operation mode
1	Continuous transmitting on lower channel,b-mode,11Mbps
2	Continuous transmitting on middle channel,b-mode,11Mbps
3	Continuous transmitting on upper channel,b-mode,11Mbps
4	Continuous transmitting on lower channel,g-mode,54Mbps
5	Continuous transmitting on middle channel,g-mode,54Mbps
6	Continuous transmitting on upper channel,g-mode,54Mbps
7	Continuous transmitting on lower channel,n-mode,135Mbps
8	Continuous transmitting on middle channel,n-mode,135Mbps
9	Continuous transmitting on upper channel,n-mode,135Mbps
10	Normal working

Note :Table of Parameters of Text Software Setting

During channel & power tests,the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product .

Test software Version	Wifi Test(Power)		
Frequency (MHz)	2412 MHz	2442 MHz	2462 MHz
IEEE 802.11b	1	1	1
IEEE 802.11g	1	1	1
IEEE 802.11n	1	1	1

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4 General Information

4.1 General Description of E.U.T.

Product Name	: WIFI Borescope
Model No.	: TF3003WX
Model Difference	:
Operation Frequency	: 2412MHz ~ 2462MHz
Antenna Gain	: 2dBi
Type of modulation	: DSSS and OFDM(802.11 b/g/n)
Note	: All the modulation modes were tested, all the test data deeply conform to the rules and the data of the worst mode (DSSS) are recorded in the following pages.

4.2 Details of E.U.T.

Technical Data	: 5.0V AC/DC Adapter or 3.7V 2300mAh Li-ion Rechargeable Battery. Adapter input: 100-240VAC, 50-60Hz, 0.2A Adapter output: 5VDC, 1A
Note	: The full test were performed that the sample was powered by adapter and battery separately, the worst case is the sample powered by adapter , so the worst data were shown as follow. We confirm that all conditions and operation modes had been considered during the test and full tests are passed. The worst data were shown as follow pages.

4.3 Description of Support Units

The EUT has been tested as an independent unit.

4.4 Rules Applicable for Testing

The customer requested FCC tests for a WIFI Borescope. The rules used were FCC CFR47 Part 15 Section 15.207, Section 15.209 , Section 15.247, Section 1.1307.

4.5 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: IC7760A**

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration 7760A, August 3, 2010.

- **FCC – Registration No.: 880581**

Teamforce Company Limited

FCC ID: N3ITF3003WX

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, May 26, 2011.

4.6 Test Location

All the tests were performed at:
Waltek Services(Shenzhen) Co., Ltd. at 1/F, Fukangtai Building, West Baima Rd.,Songgang Street, Baoan District, Shenzhen, China

4.7 Measurement Uncertainty

Parameter		Uncertainty
Radio Frequency		$\pm 1 \times 10^{-6}$
RF Power		± 1.0 dB
RF Power Density		± 2.2 dB
Radiated Emissions test	Spurious	± 5.03 dB (Bilog antenna 30M~1000MHz)
		± 4.74 dB (Horn antenna 1000M~25000MHz)
Conducted Emissions test	Spurious	± 2.2 dB

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5 Equipment Used during Test

Equipment Name	Manufacturer Model	Equipment No	Internal No	Specification	Cal. Date	Due Date	Uncertainty
EMC Analyzer	Agilent/ E7405A	MY45114943	W2008001	9k-26.5GHz	Aug. 2, 2011	Aug. 1, 2012	±1dB
Active Loop Antenna	Beijing Dazhi / ZN30900A	-	-	9KHz-30MHz	Aug. 2, 2011	Aug. 1, 2012	±1dB
Trilog Broadband Antenne	SCHWARZB ECK MESS- ELEKTROM / VULB9163	336	W2008002	30-3000 MHz	Aug. 2, 2011	Aug. 1, 2012	±1dB
Broad-band Horn Antenna	SCHWARZB ECK MESS- ELEKTROM / BBHA 9120D(1201)	667	W2008003	1-18GHz	Aug. 2, 2011	Aug. 1, 2012	f < 10 GHz : ±1dB 10GHz < f < 18 GHz : ±1.5dB
Broadband Preamplifier	SCHWARZB ECK MESS- ELEKTROM / BBV 9718	9718-148	W2008004	0.5-18GHz	Aug. 2, 2011	Aug. 1, 2012	±1.2dB
Broad-band Horn Antenna	SCHWARZB ECK MESS- ELEKTROM / BBHA 9170	399	W2008005	15-26.5GHz	Aug. 2, 2011	Aug. 1, 2012	±1.5dB
Broadband Preamplifier	SCHWARZB ECK MESS- ELEKTROM / BBV 9719	9719-254	W2008006	18-26.5GHz	Aug. 2, 2011	Aug. 1, 2012	±1.2dB
10m Coaxial Cable with N-male Connectors	SCHWARZB ECK MESS- ELEKTROM / AK 9515 H	-	-	-	Aug. 2, 2011	Aug. 1, 2012	-
10m 50 Ohm Coaxial Cable	SCHWARZB ECK MESS- ELEKTROM / AK 9513	-	-	-	Aug. 2, 2011	Aug. 1, 2012	-
Positioning Controller	C&C LAB/ CC-C-IF	-	-	-	Aug. 2, 2011	Aug. 1, 2012	-

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Equipment Name	Manufacturer Model	Equipment No	Internal No	Specification	Cal. Date	Due Date	Uncertainty
Color Monitor	SUNSP0/ SP-14C	-	-	-	Aug. 2, 2011	Aug. 1, 2012	-
Test Receiver	ROHDE&SC HWAZ/ ESPI	101155	W2005001	9k-3GHz	Aug. 2, 2011	Aug. 1, 2012	±1dB
Two-Line V- Network	ROHDE&SC HWAZ/ ENV216	100115	W2005002	50Ω/50μH	Aug. 2, 2011	Aug. 1, 2012	±10%
RF Generator	TESEQ GmbH/ NSGC43070	25781	W2008008	Fraq-range : 9K-1GHz RF voltage : - 60 dBm- +10dBm	Aug. 2, 2011	Aug. 1, 2012	Power_freq distinguish0. 1Hz RFelectricity distinguish 0.1B

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6 Conducted Emission

Test Requirement:	FCC CFR 47 Part 15 Section 15.107&15.207
Test Method:	ANSI C63.4:2003
Test Result:	PASS
Frequency Range:	150kHz to 30MHz
Class:	Class B
Limit:	66-56 dB μ V between 0.15MHz & 0.5MHz 56 dB μ V between 0.5MHz & 5MHz 60 dB μ V between 5MHz & 30MHz
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth) Quasi-Peak & Average if maximised peak within 6dB of Average Limit

6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C
Humidity: 51 % RH
Atmospheric Pressure: 1012 mbar

EUT Operation:

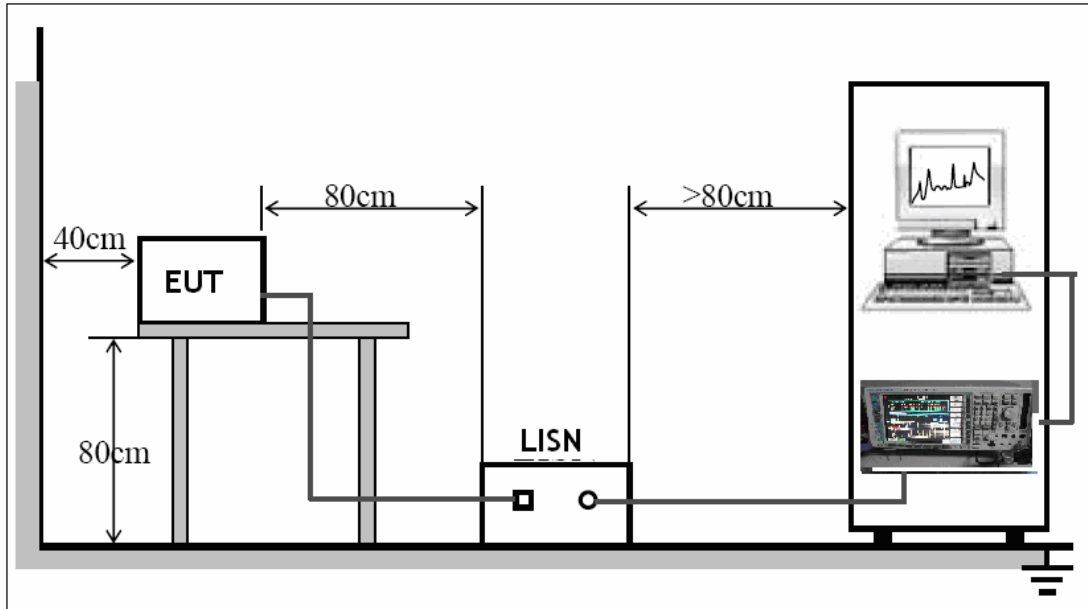
The pre-test was performed in operation mode 10, so the worst data were shown as follow.

The EUT was tested according to ANSI C63.4:2003. The frequency spectrum from 150kHz to 30MHz was investigated.

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part15.207 limits.



The EUT was placed on the test table in shielding room

6.3 Conducted Emission Test Result

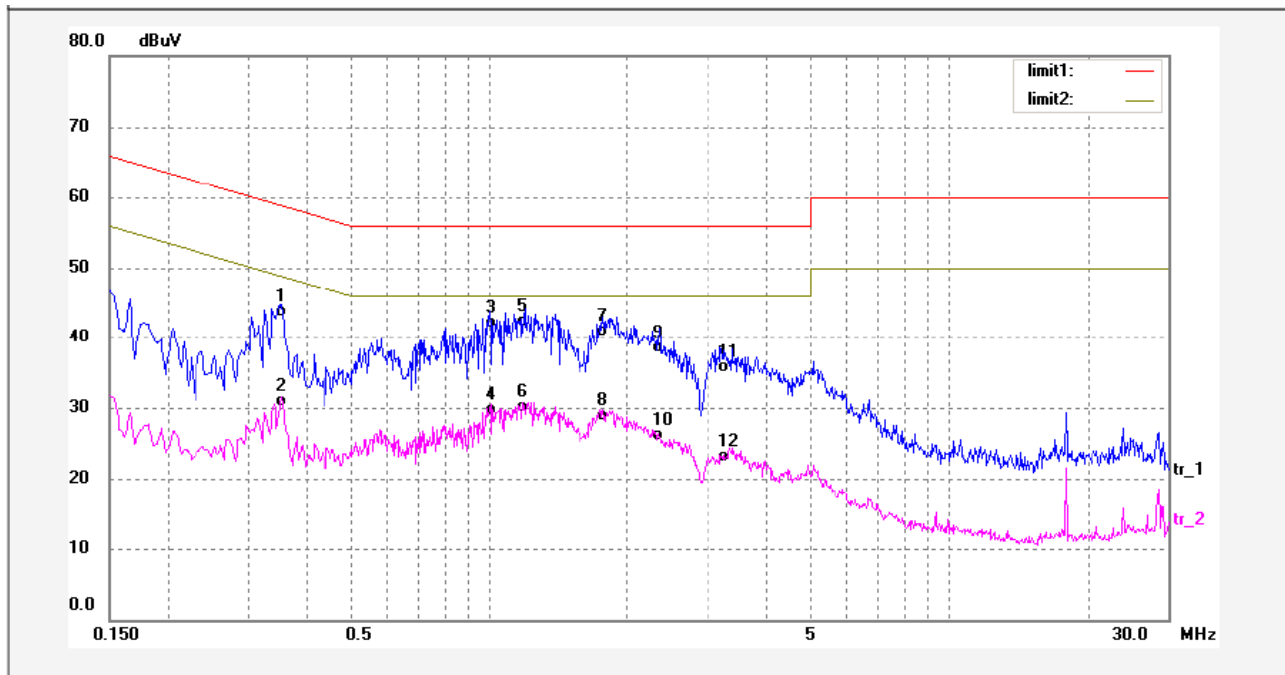
An initial pre-scan was performed on the live and neutral lines.

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Mode: normal link

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.3540	32.53	10.35	42.88	58.87	-15.99	QP	
2	0.3540	19.68	10.35	30.03	48.87	-18.84	AVG	
3	1.0100	30.81	10.45	41.26	56.00	-14.74	QP	
4	1.0100	18.47	10.45	28.92	46.00	-17.08	AVG	
5	1.1940	31.10	10.50	41.60	56.00	-14.40	QP	
6	1.1940	18.81	10.50	29.31	46.00	-16.69	AVG	
7	1.7700	29.53	10.64	40.17	56.00	-15.83	QP	
8	1.7700	17.48	10.64	28.12	46.00	-17.88	AVG	
9	2.3340	27.08	10.72	37.80	56.00	-18.20	QP	
10	2.3340	14.59	10.72	25.31	46.00	-20.69	AVG	
11	3.2300	24.12	10.76	34.88	56.00	-21.12	QP	
12	3.2300	11.55	10.76	22.31	46.00	-23.69	AVG	

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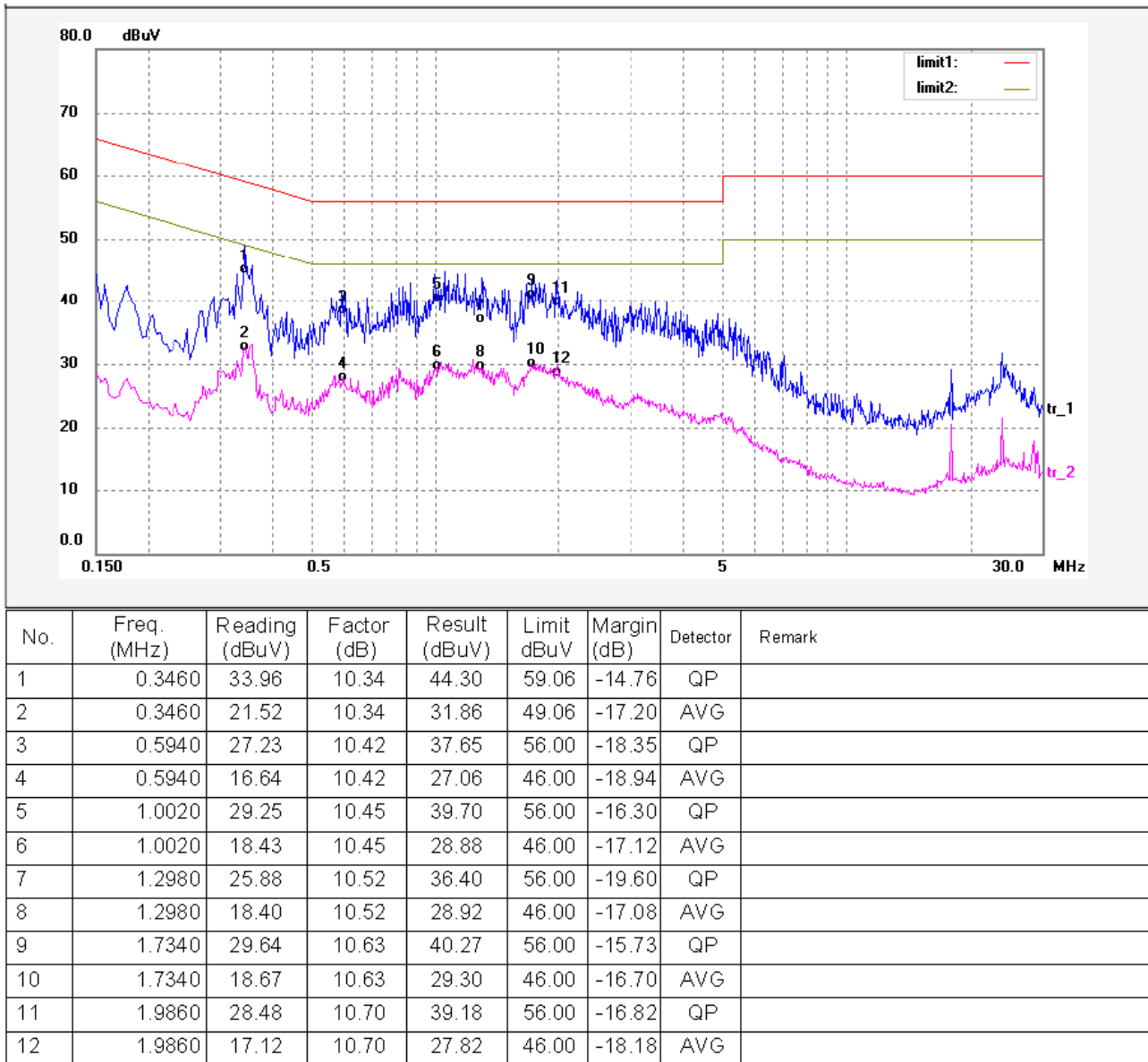
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Neutral line:



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7 Radiated Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.109&15.209
& 15.247

Test Method: ANSI C63.4:2003

Test Result: PASS

Frequency Range: 9KHz to 25GHz

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Test mode: operation mode 1~9

7.1 EUT Operation :

Operating Environment:

Temperature: 25.5 °C

Humidity: 51 % RH

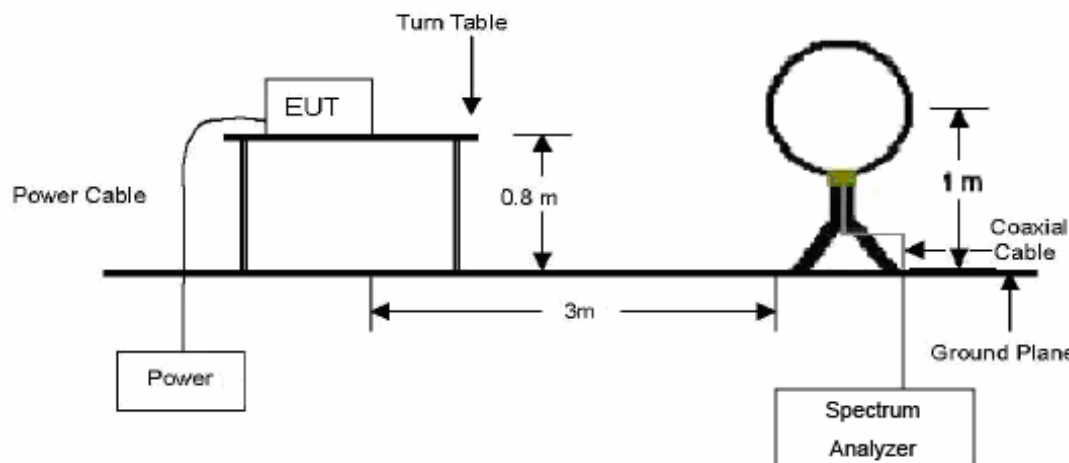
Atmospheric Pressure: 1012 mbar

7.2 Test Setup

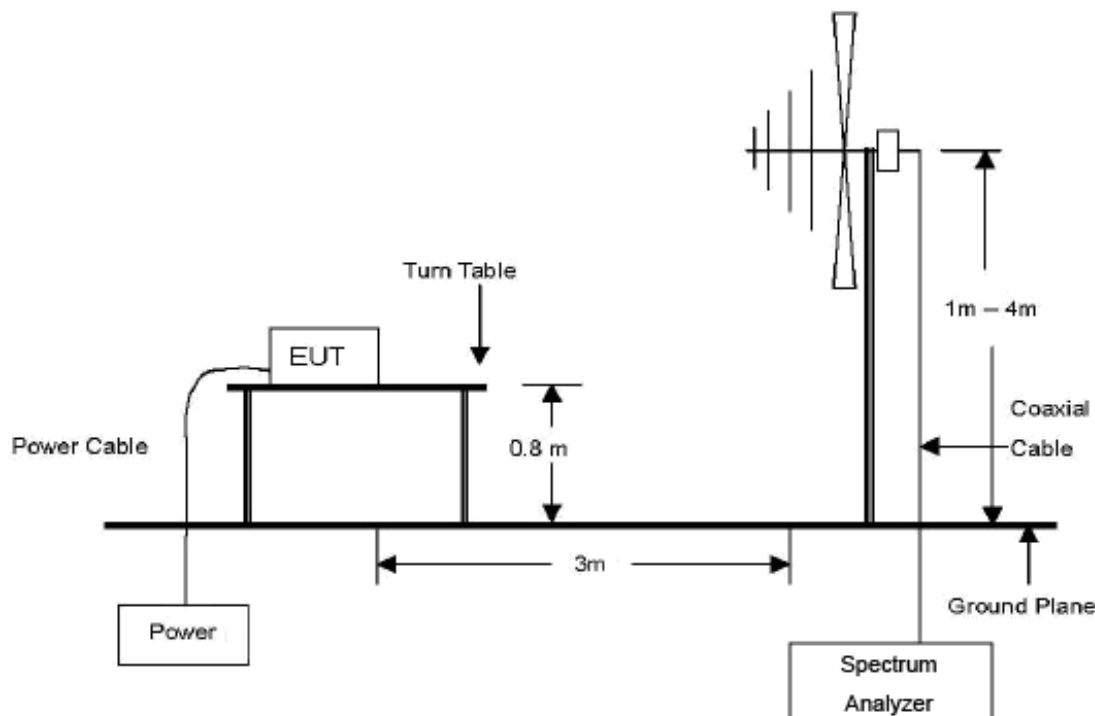
The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4:2003.

According to blockdiagram,the lowest oscillator generated in the device is 32.768KHz, so the emission was tested from the lowest frequency.

The diagram below shows the test setup that is utilized to make the measurements for emission Below 30 MHz Emissions.

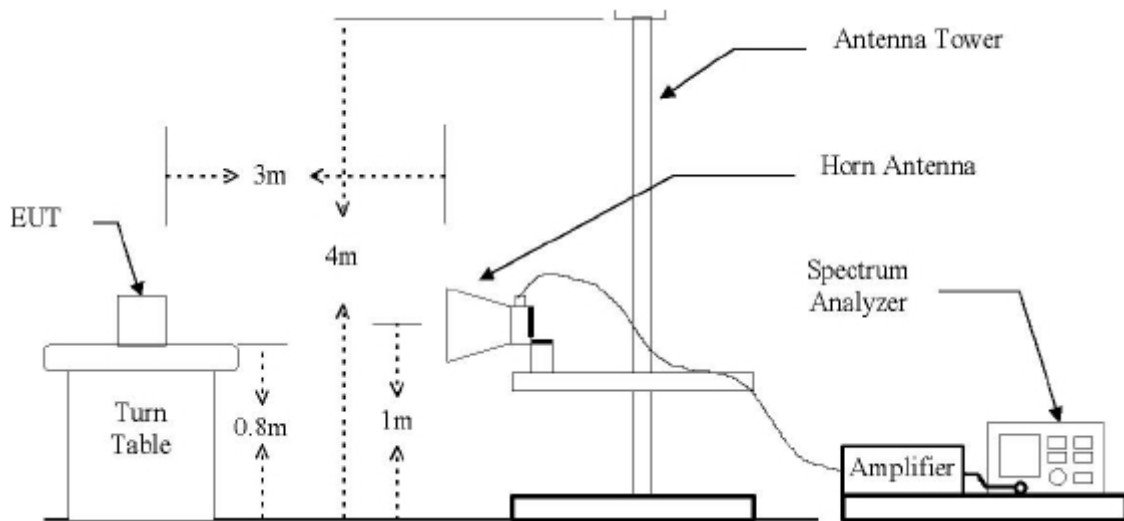


The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.



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The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz Emissions.



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7.3 Spectrum Analyzer Setup

According to FCC Part15 Rules, the system was tested from 9KHz to 25000MHz.

Below 30MHz

Start Frequency 9KHz
 Stop Frequency 30MHz
 Sweep Speed..... Auto
 IF Bandwidth 10KHz
 Video Bandwidth..... 10KHz
 Resolution Bandwidth..... 10KHz

30MHz ~ 1GHz

Start Frequency 30 MHz
 Stop Frequency 1000MHz
 Sweep Speed..... Auto
 IF Bandwidth 120 KHz
 Video Bandwidth..... 100KHz
 Quasi-Peak Adapter Bandwidth 120 KHz
 Quasi-Peak Adapter Mode Normal
 Resolution Bandwidth 100KHz

Above 1GHz

Start Frequency 1000 MHz
 Stop Frequency 25000MHz
 Sweep Speed..... Auto
 IF Bandwidth 120 KHz
 Video Bandwidth..... 3MHz
 Quasi-Peak Adapter Bandwidth 120 KHz
 Quasi-Peak Adapter Mode Normal
 Resolution Bandwidth 1MHz

7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
 6. Repeat above procedures until the measurements for all frequencies are complete.
 7. The radiation measurements are performed in X,Y and Z axis positioning.,the worst condition was tested putting the eut in X axis,so the worst data were shown as follow.
 8. New battery was used during the full test.
- And all the modes was tested in the report.Only the worst case is shown in the report.

7.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

7.6 Summary of Test Results

According to the data in this section, the EUT complied with the FCC CFR47 Part 15 Section 15.209 & 15.247 rules.

Test mode: continuously receive mode

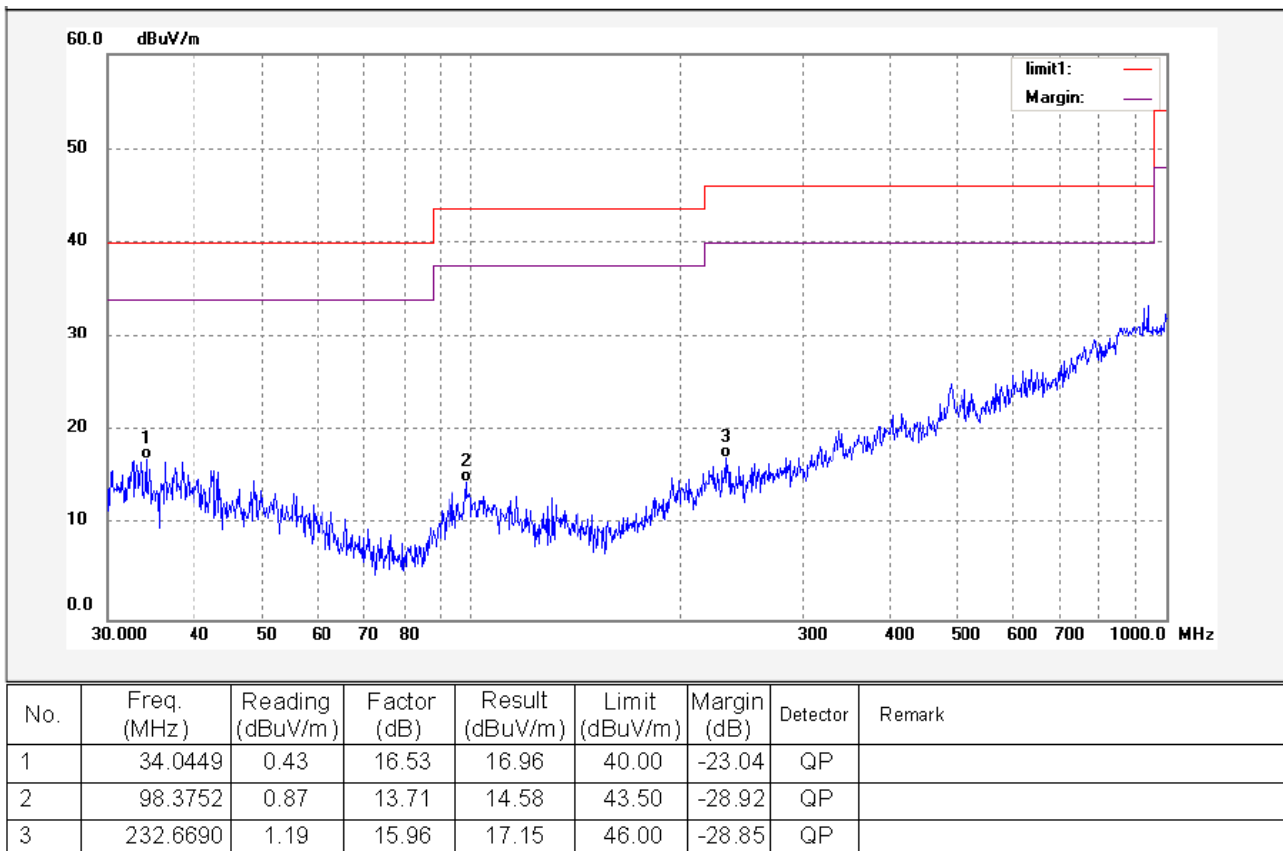
Remark: As pre-tests have shown, the emissions in the frequency range below 1GHz are not depending on the used antenna or the antenna cable length and also not on the transmitter operation mode or frequency. Therefore the emissions in this frequency range were measured only with the internal antenna, in b/g/n-mode in transmit in the middle of the assigned frequency range (operation mode 2, 5 and 8).

Because the emissions below 30MHz are more than 20dB below the limit, the data do not show in the report.

Test Frequency : 30MHz ~ 1000MHz

Mode: operation mode 8 (the worst data)

Antenna polarization: Vertical

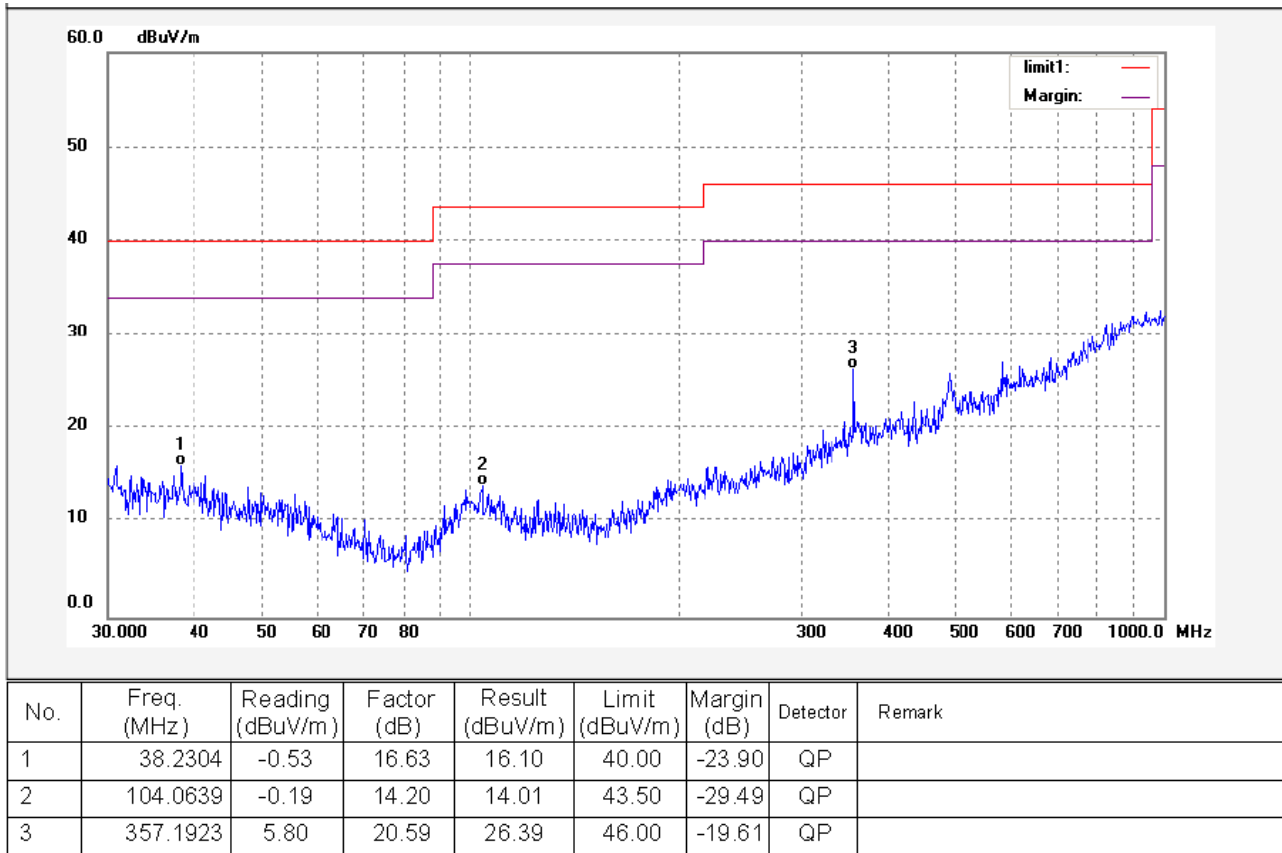


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Antenna polarization: Horizontal



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Test Frequency: Above 1GHz radiation test data:

The emissions which are more than 20dB below the limit do not show in the report.

Mode:operation mode 1

The below are the Fundamentals and Harmonics which are the higher emissions recorded.

Frequency (MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
2412	AV	Vertical	102.35		(Fund.)	1.6	10
4824	AV	Vertical	45.32	54	-8.68	1.8	70
7236	AV	Vertical	47.24	54	-6.76	1.9	145
9648	AV	Vertical	45.21	54	-8.79	2.4	110
12060	AV	Vertical		54	<-20dB		
14472	AV	Vertical		54	<-20dB		
16884	AV	Vertical		54	<-20dB		
19296	AV	Vertical		54	<-20dB		
21708	AV	Vertical		54	<-20dB		
24120	AV	Vertical		54	<-20dB		
2412	AV	Horizontal	96.98		(Fund.)	1.8	45
4824	AV	Horizontal	44.21	54	-9.79	2	170
7236	AV	Horizontal	40.35	54	-13.65	2	110
9648	AV	Horizontal	39.54	54	-14.46	1.9	140
12060	AV	Horizontal		54	<-20dB		
14472	AV	Horizontal		54	<-20dB		
16884	AV	Horizontal		54	<-20dB		
19296	AV	Horizontal		54	<-20dB		
21708	AV	Horizontal		54	<-20dB		
24120	AV	Horizontal		54	<-20dB		
2412	PK	Vertical	114.66		(Fund.)	1.7	35
4824	PK	Vertical	57.23	74	-16.77	2.5	105
7236	PK	Vertical	59.64	74	-14.36	2.1	135
9648	PK	Vertical	56.21	74	-17.79	2.1	215
12060	PK	Vertical		74	<-20dB		
14472	PK	Vertical		74	<-20dB		
16884	PK	Vertical		74	<-20dB		
19296	PK	Vertical		74	<-20dB		
21708	PK	Vertical		74	<-20dB		
24120	PK	Vertical		74	<-20dB		

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2412	PK	Horizontal	105.68		(Fund.)	2.4	105
4824	PK	Horizontal	43.21	74	-30.79	3	145
7236	PK	Horizontal	10.25	74	-63.75	2.4	115
9648	PK	Horizontal	43.25	74	-30.75	2	45
12060	PK	Horizontal		74	<-20dB		
14472	PK	Horizontal		74	<-20dB		
16884	PK	Horizontal		74	<-20dB		
19296	PK	Horizontal		74	<-20dB		
21708	PK	Horizontal		74	<-20dB		
24120	PK	Horizontal		74	<-20dB		

Mode:operation mode 2

The below are the Fundamentals and Harmonics which are the higher emissions recorded.

Frequency (MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
2442	AV	Vertical	102.68		(Fund.)	1.8	40
4884	AV	Vertical	47.52	54	-6.48	1.7	115
7326	AV	Vertical	45.21	54	-8.79	1.7	125
9768	AV	Vertical	42.02	54	-11.98	1.7	70
12210	AV	Vertical		54	<-20dB		
14652	AV	Vertical		54	<-20dB		
17094	AV	Vertical		54	<-20dB		
19536	AV	Vertical		54	<-20dB		
21978	AV	Vertical		54	<-20dB		
24420	AV	Vertical		54	<-20dB		
2442	AV	Horizontal	97.81		(Fund.)	2	185
4884	AV	Horizontal	43.24	54	-10.76	1.7	150
7326	AV	Horizontal	44.15	54	-9.85	1.9	325
9768	AV	Horizontal	37.15	54	-16.85	1.8	160
12210	AV	Horizontal		54	<-20dB		
14652	AV	Horizontal		54	<-20dB		
17094	AV	Horizontal		54	<-20dB		
19536	AV	Horizontal		54	<-20dB		
21978	AV	Horizontal		54	<-20dB		
24420	AV	Horizontal		54	<-20dB		
2442	PK	Vertical	113.95		(Fund.)	1.8	50

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WALTEK SERVICES

Reference No.: WT12053177-D-S-F

Teamforce Company Limited

FCC ID: N3ITF3003WX

4884	PK	Vertical	60.25	74	-13.75	1.7	125
7326	PK	Vertical	57.15	74	-16.85	1.8	145
9768	PK	Vertical	57.21	74	-16.79	1.8	195
12210	PK	Vertical		74	<-20dB		
14652	PK	Vertical		74	<-20dB		
17094	PK	Vertical		74	<-20dB		
19536	PK	Vertical		74	<-20dB		
21978	PK	Vertical		74	<-20dB		
24420	PK	Vertical		74	<-20dB		
2442	PK	Horizontal	107.52		(Fund.)	2	55
4884	PK	Horizontal	57.21	74	-16.79	2.5	130
7326	PK	Horizontal	56.54	74	-17.46	2.1	165
9768	PK	Horizontal	52.11	74	-21.89	2.2	115
12210	PK	Horizontal		74	<-20dB		
14652	PK	Horizontal		74	<-20dB		
17094	PK	Horizontal		74	<-20dB		
19536	PK	Horizontal		74	<-20dB		
21978	PK	Horizontal		74	<-20dB		
24420	PK	Horizontal		74	<-20dB		

Mode:operation mode 3

The below are the Fundamentals and Harmonics which are the higher emissions recorded.

Frequency (MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
2462	AV	Vertical	104.02		(Fund.)	1.9	190
4924	AV	Vertical	46.32	54	-7.68	1.8	25
7386	AV	Vertical	43.15	54	-10.85	1.8	155
9848	AV	Vertical	45.58	54	-8.42	1.8	130
12310	AV	Vertical		54	<-20dB		
14772	AV	Vertical		54	<-20dB		
17234	AV	Vertical		54	<-20dB		
19696	AV	Vertical		54	<-20dB		
22158	AV	Vertical		54	<-20dB		
24620	AV	Vertical		54	<-20dB		
2462	AV	Horizontal	97.85		(Fund.)	2.3	185

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WALTEK SERVICES

Reference No.: WT12053177-D-S-F

Teamforce Company Limited

FCC ID: N3ITF3003WX

4924	AV	Horizontal	40.98	54	-13.02	2	210
7386	AV	Horizontal	41.56	54	-12.44	2.1	175
9848	AV	Horizontal	42.81	54	-11.19	2	220
12310	AV	Horizontal		54	<-20dB		
14772	AV	Horizontal		54	<-20dB		
17234	AV	Horizontal		54	<-20dB		
19696	AV	Horizontal		54	<-20dB		
22158	AV	Horizontal		54	<-20dB		
24620	AV	Horizontal		54	<-20dB		
2462	PK	Vertical	112.95		(Fund.)	2	230
4924	PK	Vertical	61.23	74	-12.77	1.9	65
7386	PK	Vertical	56.48	74	-17.52	2	155
9848	PK	Vertical	57.25	74	-16.75	2	175
12310	PK	Vertical		74	<-20dB		
14772	PK	Vertical		74	<-20dB		
17234	PK	Vertical		74	<-20dB		
19696	PK	Vertical		74	<-20dB		
22158	PK	Vertical		74	<-20dB		
24620	PK	Vertical		74	<-20dB		
2462	PK	Horizontal	109.65		(Fund.)	2.3	235
4924	PK	Horizontal	55.66	74	-18.34	2.8	145
7386	PK	Horizontal	54.25	74	-19.75	2.4	195
9848	PK	Horizontal	54.16	74	-19.84	2.5	235
12310	PK	Horizontal		74	<-20dB		
14772	PK	Horizontal		74	<-20dB		
17234	PK	Horizontal		74	<-20dB		
19696	PK	Horizontal		74	<-20dB		
22158	PK	Horizontal		74	<-20dB		
24620	PK	Horizontal		74	<-20dB		

Mode:operation mode 4

The below are the Fundamentals and Harmonics which are the higher emissions recorded.

Frequency (MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
2412	AV	Vertical	101.66		(Fund.)	1.6	10

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FCC ID: N3ITF3003WX

4824	AV	Vertical	46.16	54	-7.84	1.8	70
7236	AV	Vertical	48.76	54	-5.24	1.9	145
9648	AV	Vertical	44.29	54	-9.71	2.4	110
12060	AV	Vertical		54	<-20dB		
14472	AV	Vertical		54	<-20dB		
16884	AV	Vertical		54	<-20dB		
19296	AV	Vertical		54	<-20dB		
21708	AV	Vertical		54	<-20dB		
24120	AV	Vertical		54	<-20dB		
2412	AV	Horizontal	96.54		(Fund.)	1.8	45
4824	AV	Horizontal	43.52	54	-10.48	2	170
7236	AV	Horizontal	40.81	54	-13.19	2	110
9648	AV	Horizontal	39.33	54	-14.67	1.9	140
12060	AV	Horizontal		54	<-20dB		
14472	AV	Horizontal		54	<-20dB		
16884	AV	Horizontal		54	<-20dB		
19296	AV	Horizontal		54	<-20dB		
21708	AV	Horizontal		54	<-20dB		
24120	AV	Horizontal		54	<-20dB		
2412	PK	Vertical	115.12		(Fund.)	1.7	35
4824	PK	Vertical	57.27	74	-16.73	2.5	105
7236	PK	Vertical	59.58	74	5884	2.1	135
9648	PK	Vertical	56.69	74	-17.31	2.1	215
12060	PK	Vertical		74	<-20dB		
14472	PK	Vertical		74	<-20dB		
16884	PK	Vertical		74	<-20dB		
19296	PK	Vertical		74	<-20dB		
21708	PK	Vertical		74	<-20dB		
24120	PK	Vertical		74	<-20dB		
2412	PK	Horizontal	104.21		(Fund.)	2.4	105
4824	PK	Horizontal	43.77	74	-30.23	3	145
7236	PK	Horizontal	40.65	74	-33.35	2.4	115
9648	PK	Horizontal	43.51	74	-30.49	2	45
12060	PK	Horizontal		74	<-20dB		
14472	PK	Horizontal		74	<-20dB		
16884	PK	Horizontal		74	<-20dB		
19296	PK	Horizontal		74	<-20dB		
21708	PK	Horizontal		74	<-20dB		
24120	PK	Horizontal		74	<-20dB		

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WALTEK SERVICES

Reference No.: WT12053177-D-S-F

Mode:operation mode 5

The below are the Fundamentals and Harmonics which are the higher emissions recorded.

Frequency (MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
2442	AV	Vertical	101.31		(Fund.)	1.8	40
4884	AV	Vertical	47.65	54	-6.35	1.7	115
7326	AV	Vertical	45.16	54	-8.84	1.7	125
9768	AV	Vertical	42.29	54	-11.71	1.7	70
12210	AV	Vertical		54	<-20dB		
14652	AV	Vertical		54	<-20dB		
17094	AV	Vertical		54	<-20dB		
19536	AV	Vertical		54	<-20dB		
21978	AV	Vertical		54	<-20dB		
24420	AV	Vertical		54	<-20dB		
2442	AV	Horizontal	96.41		(Fund.)	2	185
4884	AV	Horizontal	43.01	54	-10.99	1.7	150
7326	AV	Horizontal	43.52	54	-10.48	1.9	325
9768	AV	Horizontal	37.18	54	-16.82	1.8	160
12210	AV	Horizontal		54	<-20dB		
14652	AV	Horizontal		54	<-20dB		
17094	AV	Horizontal		54	<-20dB		
19536	AV	Horizontal		54	<-20dB		
21978	AV	Horizontal		54	<-20dB		
24420	AV	Horizontal		54	<-20dB		
2442	PK	Vertical	112.61		(Fund.)	1.8	50
4884	PK	Vertical	59.38	74	-14.62	1.7	125
7326	PK	Vertical	56.37	74	-17.63	1.8	145
9768	PK	Vertical	56.39	74	-17.61	1.8	195
12210	PK	Vertical		74	<-20dB		
14652	PK	Vertical		74	<-20dB		
17094	PK	Vertical		74	<-20dB		
19536	PK	Vertical		74	<-20dB		
21978	PK	Vertical		74	<-20dB		
24420	PK	Vertical		74	<-20dB		
2442	PK	Horizontal	106.18		(Fund.)	2	55
4884	PK	Horizontal	56.44	74	-17.56	2.5	130
7326	PK	Horizontal	55.09	74	-18.91	2.1	165
9768	PK	Horizontal	51.91	74	-22.09	2.2	115

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12210	PK	Horizontal		74	<-20dB		
14652	PK	Horizontal		74	<-20dB		
17094	PK	Horizontal		74	<-20dB		
19536	PK	Horizontal		74	<-20dB		
21978	PK	Horizontal		74	<-20dB		
24420	PK	Horizontal		74	<-20dB		

Mode:operation mode 6

The below are the Fundamentals and Harmonics which are the higher emissions recorded.

Frequency (MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
2462	AV	Vertical	103.29		(Fund.)	1.9	190
4924	AV	Vertical	45.17	54	-8.83	1.8	25
7386	AV	Vertical	42.61	54	-11.39	1.8	155
9848	AV	Vertical	44.18	54	-9.82	1.8	130
12310	AV	Vertical		54	<-20dB		
14772	AV	Vertical		54	<-20dB		
17234	AV	Vertical		54	<-20dB		
19696	AV	Vertical		54	<-20dB		
22158	AV	Vertical		54	<-20dB		
24620	AV	Vertical		54	<-20dB		
2462	AV	Horizontal	96.88		(Fund.)	2.3	185
4924	AV	Horizontal	39.25	54	-14.75	2	210
7386	AV	Horizontal	40.17	54	-13.83	2.1	175
9848	AV	Horizontal	41.66	54	-12.34	2	220
12310	AV	Horizontal		54	<-20dB		
14772	AV	Horizontal		54	<-20dB		
17234	AV	Horizontal		54	<-20dB		
19696	AV	Horizontal		54	<-20dB		
22158	AV	Horizontal		54	<-20dB		
24620	AV	Horizontal		54	<-20dB		
2462	PK	Vertical	111.08		(Fund.)	2	230
4924	PK	Vertical	60.25	74	-13.75	1.9	65
7386	PK	Vertical	55.73	74	-18.27	2	155
9848	PK	Vertical	56.37	74	-17.63	2	175
12310	PK	Vertical		74	<-20dB		
14772	PK	Vertical		74	<-20dB		
17234	PK	Vertical		74	<-20dB		

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19696	PK	Vertical		74	<-20dB		
22158	PK	Vertical		74	<-20dB		
24620	PK	Vertical		74	<-20dB		
2462	PK	Horizontal	108.16		(Fund.)	2.3	235
4924	PK	Horizontal	54.63	74	-19.37	2.8	145
7386	PK	Horizontal	53.29	74	-20.71	2.4	195
9848	PK	Horizontal	53.18	74	-20.82	2.5	235
12310	PK	Horizontal		74	<-20dB		
14772	PK	Horizontal		74	<-20dB		
17234	PK	Horizontal		74	<-20dB		
19696	PK	Horizontal		74	<-20dB		
22158	PK	Horizontal		74	<-20dB		
24620	PK	Horizontal		74	<-20dB		

Mode:operation mode 7

The below are the Fundamentals and Harmonics which are the higher emissions recorded.

Frequency (MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
2412	AV	Vertical	99.15		(Fund.)	1.6	10
4824	AV	Vertical	44.37	54	-9.63	1.8	70
7236	AV	Vertical	46.17	54	-7.83	1.9	145
9648	AV	Vertical	42.38	54	-11.62	2.4	110
12060	AV	Vertical		54	<-20dB		
14472	AV	Vertical		54	<-20dB		
16884	AV	Vertical		54	<-20dB		
19296	AV	Vertical		54	<-20dB		
21708	AV	Vertical		54	<-20dB		
24120	AV	Vertical		54	<-20dB		
2412	AV	Horizontal	83.83		(Fund.)	1.8	45
4824	AV	Horizontal	41.68	54	-12.32	2	170
7236	AV	Horizontal	39.18	54	-14.82	2	110
9648	AV	Horizontal	38.12	54	-15.88	1.9	140
12060	AV	Horizontal		54	<-20dB		
14472	AV	Horizontal		54	<-20dB		
16884	AV	Horizontal		54	<-20dB		
19296	AV	Horizontal		54	<-20dB		
21708	AV	Horizontal		54	<-20dB		
24120	AV	Horizontal		54	<-20dB		

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2412	PK	Vertical	112.08		(Fund.)	1.7	35
4824	PK	Vertical	55.37	74	-18.63	2.5	105
7236	PK	Vertical	57.49	74	-16.51	2.1	135
9648	PK	Vertical	52.18	74	-21.82	2.1	215
12060	PK	Vertical		74	<-20dB		
14472	PK	Vertical		74	<-20dB		
16884	PK	Vertical		74	<-20dB		
19296	PK	Vertical		74	<-20dB		
21708	PK	Vertical		74	<-20dB		
24120	PK	Vertical		74	<-20dB		
2412	PK	Horizontal	102.18		(Fund.)	2.4	105
4824	PK	Horizontal	41.17	74	-32.83	3	145
7236	PK	Horizontal	43.72	74	-30.28	2.4	115
9648	PK	Horizontal	40.18	74	-33.82	2	45
12060	PK	Horizontal		74	<-20dB		
14472	PK	Horizontal		74	<-20dB		
16884	PK	Horizontal		74	<-20dB		
19296	PK	Horizontal		74	<-20dB		
21708	PK	Horizontal		74	<-20dB		
24120	PK	Horizontal		74	<-20dB		

Mode:operation mode 8

The below are the Fundamentals and Harmonics which are the higher emissions recorded.

Frequency (MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
2442	AV	Vertical	101.31		(Fund.)	1.8	40
4884	AV	Vertical	47.65	54	-6.35	1.7	115
7326	AV	Vertical	43.86	54	-10.14	1.7	125
9768	AV	Vertical	40.19	54	-13.81	1.7	70
12210	AV	Vertical		54	<-20dB		
14652	AV	Vertical		54	<-20dB		
17094	AV	Vertical		54	<-20dB		
19536	AV	Vertical		54	<-20dB		
21978	AV	Vertical		54	<-20dB		
24420	AV	Vertical		54	<-20dB		
2442	AV	Horizontal	94.22		(Fund.)	2	185
4884	AV	Horizontal	40.37	54	-13.63	1.7	150
7326	AV	Horizontal	40.08	54	-13.92	1.9	325

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Teamforce Company Limited

FCC ID: N3ITF3003WX

9768	AV	Horizontal	35.72	54	-18.28	1.8	160
12210	AV	Horizontal		54	<-20dB		
14652	AV	Horizontal		54	<-20dB		
17094	AV	Horizontal		54	<-20dB		
19536	AV	Horizontal		54	<-20dB		
21978	AV	Horizontal		54	<-20dB		
24420	AV	Horizontal		54	<-20dB		
2442	PK	Vertical	110.53		(Fund.)	1.8	50
4884	PK	Vertical	55.78	74	-18.22	1.7	125
7326	PK	Vertical	53.62	74	-20.38	1.8	145
9768	PK	Vertical	52.77	74	-21.23	1.8	195
12210	PK	Vertical		74	<-20dB		
14652	PK	Vertical		74	<-20dB		
17094	PK	Vertical		74	<-20dB		
19536	PK	Vertical		74	<-20dB		
21978	PK	Vertical		74	<-20dB		
24420	PK	Vertical		74	<-20dB		
2442	PK	Horizontal	103.61		(Fund.)	2	55
4884	PK	Horizontal	53.31	74	-20.69	2.5	130
7326	PK	Horizontal	52.62	74	-21.38	2.1	165
9768	PK	Horizontal	49.27	74	-24.73	2.2	115
12210	PK	Horizontal		74	<-20dB		
14652	PK	Horizontal		74	<-20dB		
17094	PK	Horizontal		74	<-20dB		
19536	PK	Horizontal		74	<-20dB		
21978	PK	Horizontal		74	<-20dB		
24420	PK	Horizontal		74	<-20dB		

Mode:operation mode 9

The below are the Fundamentals and Harmonics which are the higher emissions recorded.

Frequency (MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
2462	AV	Vertical	100.76		(Fund.)	1.9	190
4924	AV	Vertical	43.08	54	-10.92	1.8	25
7386	AV	Vertical	40.29	54	-13.71	1.8	155
9848	AV	Vertical	41.56	54	-12.44	1.8	130
12310	AV	Vertical		54	<-20dB		
14772	AV	Vertical		54	<-20dB		

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17234	AV	Vertical		54	<-20dB		
19696	AV	Vertical		54	<-20dB		
22158	AV	Vertical		54	<-20dB		
24620	AV	Vertical		54	<-20dB		
2462	AV	Horizontal	94.18		(Fund.)	2.3	185
4924	AV	Horizontal	36.77	54	-17.23	2	210
7386	AV	Horizontal	38.62	54	-15.38	2.1	175
9848	AV	Horizontal	39.33	54	-14.67	2	220
12310	AV	Horizontal		54	<-20dB		
14772	AV	Horizontal		54	<-20dB		
17234	AV	Horizontal		54	<-20dB		
19696	AV	Horizontal		54	<-20dB		
22158	AV	Horizontal		54	<-20dB		
24620	AV	Horizontal		54	<-20dB		
2462	PK	Vertical	108.56		(Fund.)	2	230
4924	PK	Vertical	59.13	74	-14.87	1.9	65
7386	PK	Vertical	52.37	74	-21.63	2	155
9848	PK	Vertical	54.48	74	-19.52	2	175
12310	PK	Vertical		74	<-20dB		
14772	PK	Vertical		74	<-20dB		
17234	PK	Vertical		74	<-20dB		
19696	PK	Vertical		74	<-20dB		
22158	PK	Vertical		74	<-20dB		
24620	PK	Vertical		74	<-20dB		
2462	PK	Horizontal	106.18		(Fund.)	2.3	235
4924	PK	Horizontal	51.21	74	-22.79	2.8	145
7386	PK	Horizontal	50.76	74	-23.24	2.4	195
9848	PK	Horizontal	50.63	74	-23.37	2.5	235
12310	PK	Horizontal		74	<-20dB		
14772	PK	Horizontal		74	<-20dB		
17234	PK	Horizontal		74	<-20dB		
19696	PK	Horizontal		74	<-20dB		
22158	PK	Horizontal		74	<-20dB		
24620	PK	Horizontal		74	<-20dB		

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WALTEK SERVICES

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8 Band Edge Measurement

Test Requirement:	Section 15.247(d) In addition, radiated emissions which fall in the restricted bands. as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).
Test Method:	KDB Publication No. 558074
Measurement Distance:	3m
Detector:	For Peak value: RBW = 1MHz VBW = 3MHz; Sweep = auto Detector function = peak Trace = max hold For Average value: RBW = 1MHz VBW = 10Hz; Sweep = auto Detector function = Average Trace = max hold

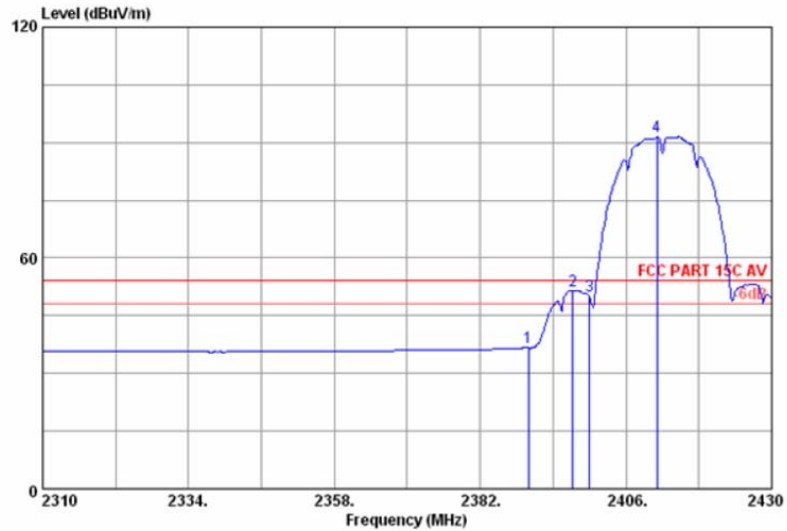
8.1 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

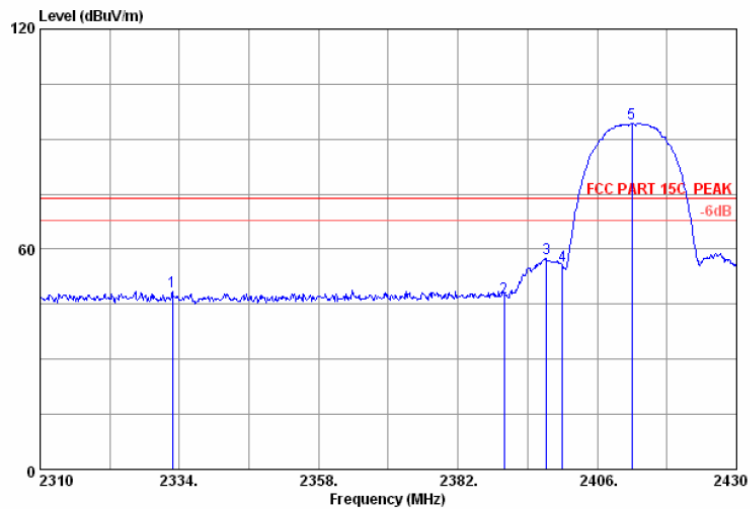
8.2 Test Result:

Mode:Operation mode 1

Antenna Polarization:Horizontal



	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	36.40	36.61	54.00	17.39	Average
2	2397.240	29.44	7.39	36.62	51.41	51.62	54.00	2.38	Average
3	2400.000	29.44	7.43	36.62	49.72	49.97	54.00	4.03	Average
4	2411.160	29.45	7.43	36.62	91.19	91.45	54.00	-37.45	Average



	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2332.800	29.40	7.27	36.63	48.55	48.59	74.00	25.41	Peak
2	2390.000	29.44	7.39	36.62	46.55	46.76	74.00	27.24	Peak
3	2397.240	29.44	7.39	36.62	57.44	57.65	74.00	16.35	Peak
4	2400.000	29.44	7.43	36.62	55.13	55.38	74.00	18.62	Peak
5	2412.000	29.45	7.43	36.62	94.02	94.28	74.00	-20.28	Peak

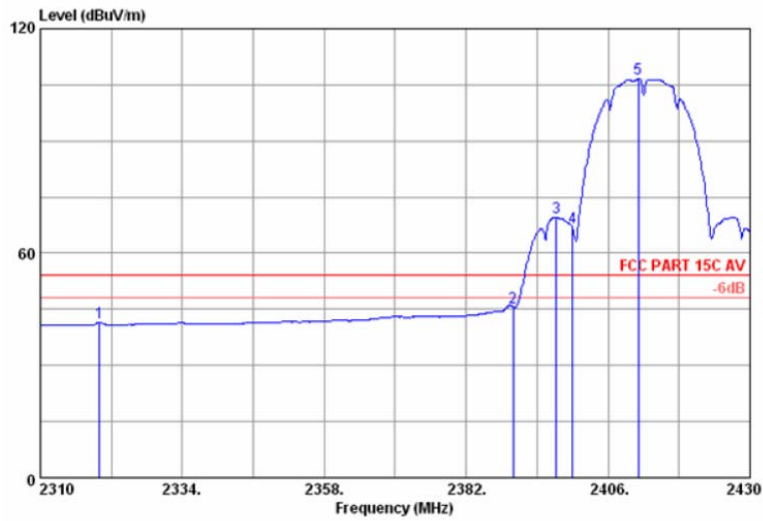
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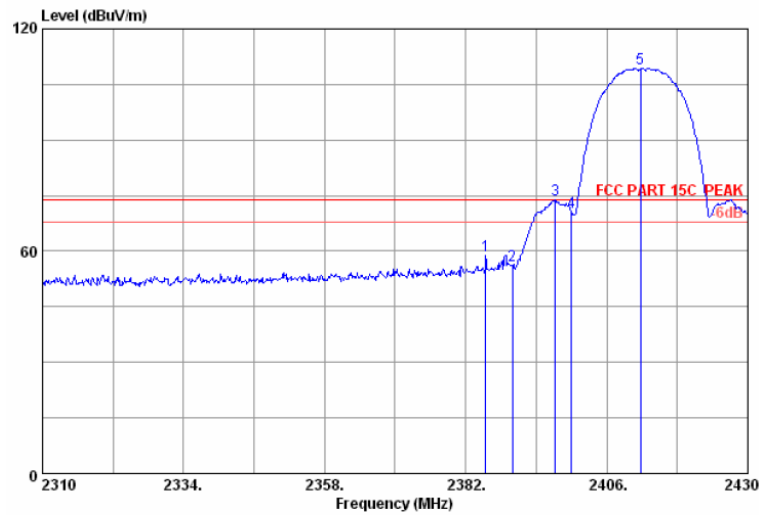
Reference No.: WT12053177-D-S-F

Mode: Operation mode 1

Antenna Polarization: Vertical



		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2319.960	29.40	7.27	36.63	41.45	41.49	54.00	12.51	Average
2	2390.000	29.44	7.39	36.62	45.30	45.51	54.00	8.49	Average
3	2397.240	29.44	7.39	36.62	69.39	69.60	54.00	-15.60	Average
4	2400.000	29.44	7.43	36.62	66.63	66.88	54.00	-12.88	Average
5	2411.160	29.45	7.43	36.62	106.36	106.62	54.00	-52.62	Average



		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2385.360	29.43	7.39	36.62	58.76	58.96	74.00	15.04	Peak
2	2390.000	29.44	7.39	36.62	55.98	56.19	74.00	17.81	Peak
3	2397.240	29.44	7.39	36.62	73.52	73.73	74.00	0.27	Peak
4	2400.000	29.44	7.43	36.62	70.31	70.56	74.00	3.44	Peak
5	2411.760	29.45	7.43	36.62	109.10	109.36	74.00	-35.36	Peak

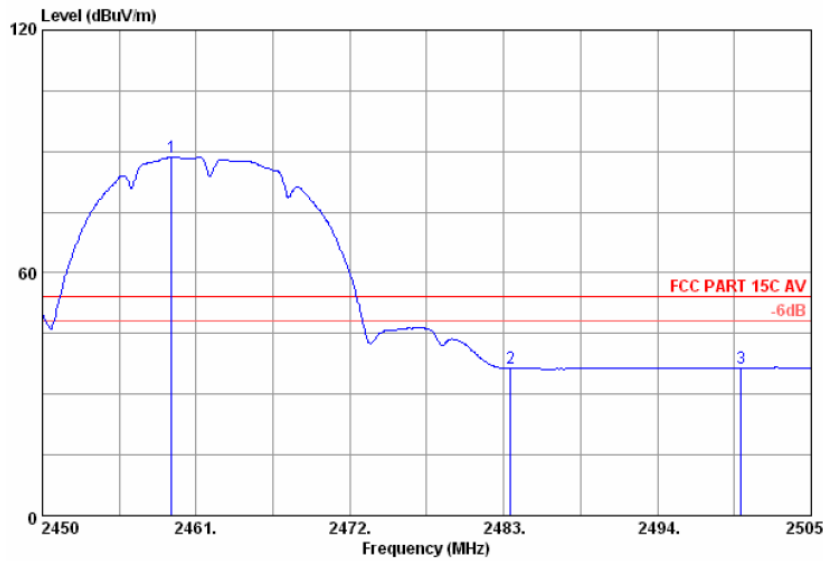
The results shown in this test report refer only to the sample(s) tested, This Test report cannot be reproduced, except in full, without prior written permission of the Company.

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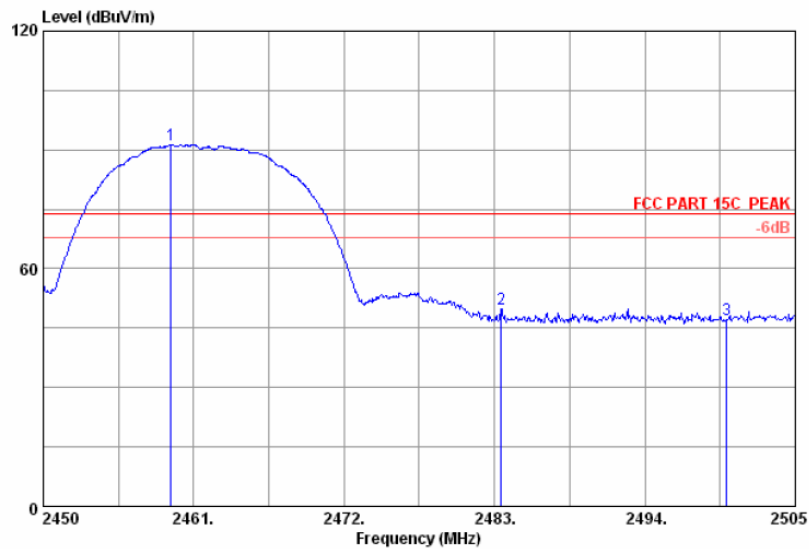
Reference No.: WT12053177-D-S-F

Teamforce Company Limited

FCC ID: N3ITF3003WX

Mode:Operation mode 3**Antenna Polarization:Horizontal**

		Ant.	Cable	Amp.	Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2459.240	29.48	7.54	36.61	88.27	88.68	54.00	-34.68	Average
2	2483.500	29.49	7.58	36.60	35.88	36.35	54.00	17.65	Average
3	2500.000	29.50	7.62	36.60	36.01	36.53	54.00	17.47	Average



		Ant.	Cable	Amp.	Emission				
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)	
1	2459.350	29.48	7.54	36.61	90.82	91.23	74.00	-17.23	Peak
2	2483.500	29.49	7.58	36.60	49.23	49.70	74.00	24.30	Peak
3	2500.000	29.50	7.62	36.60	46.72	47.24	74.00	26.76	Peak

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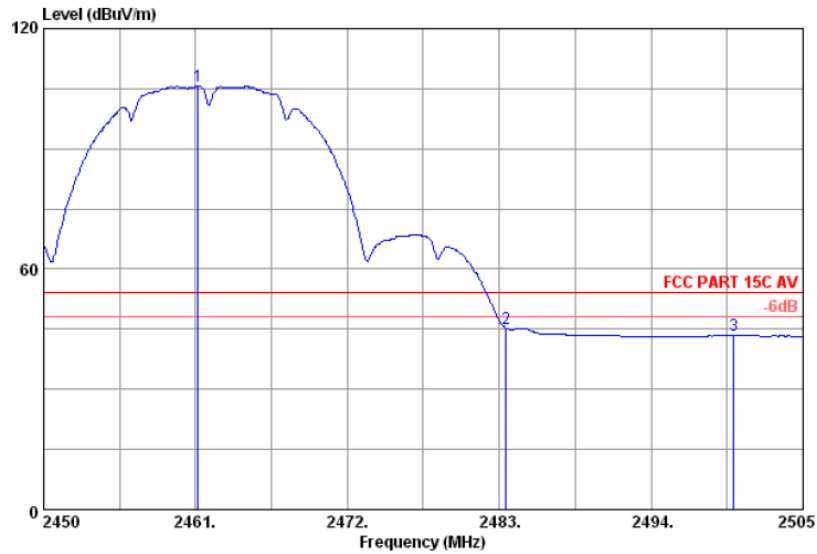
Reference No.: WT12053177-D-S-F

Teamforce Company Limited

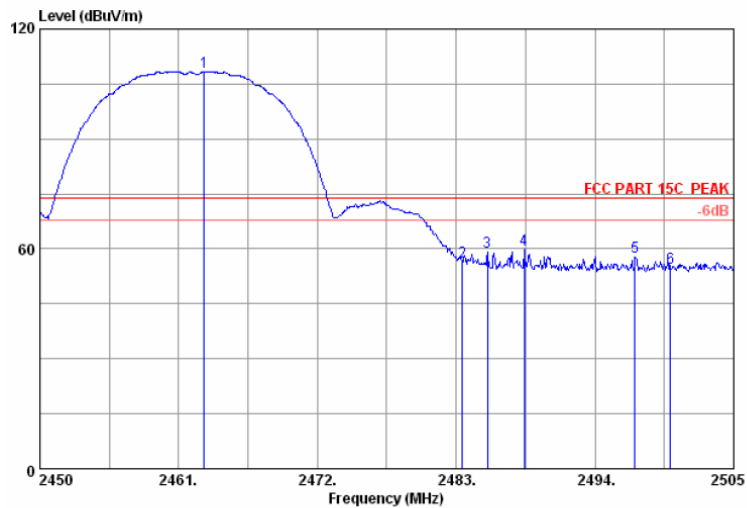
FCC ID: N3ITF3003WX

Mode: Operation mode 3

Antenna Polarization: Vertical



	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2461.165	29.48	7.54	36.61	105.27	105.68	54.00	-51.68	Average
2	2483.500	29.49	7.58	36.60	44.73	45.20	54.00	8.80	Average
3	2500.000	29.50	7.62	36.60	42.82	43.34	54.00	10.66	Average



	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2463.035	29.48	7.54	36.61	108.06	108.47	74.00	-34.47	Peak
2	2483.500	29.49	7.58	36.60	56.03	56.50	74.00	17.50	Peak
3	2485.475	29.49	7.58	36.60	58.85	59.32	74.00	14.68	Peak
4	2488.390	29.50	7.58	36.60	59.52	60.00	74.00	14.00	Peak
5	2497.190	29.50	7.58	36.60	57.36	57.84	74.00	16.16	Peak
6	2500.000	29.50	7.62	36.60	54.44	54.96	74.00	19.04	Peak

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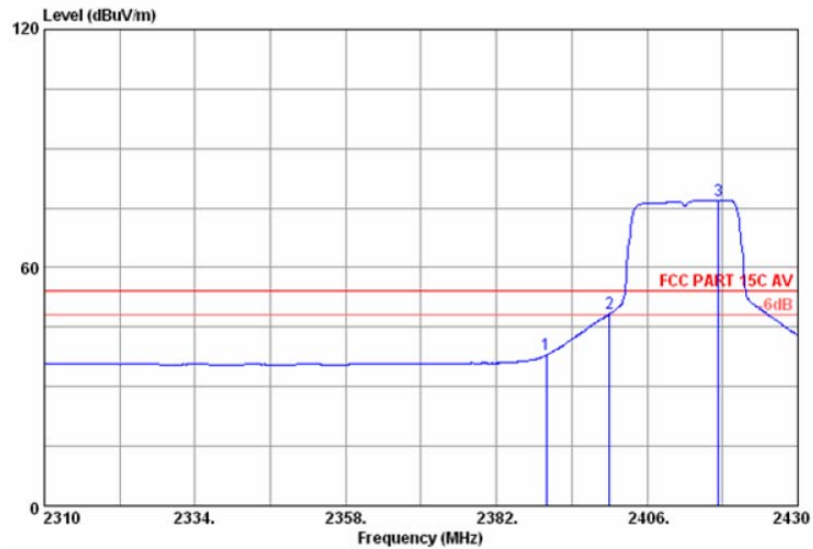
Reference No.: WT12053177-D-S-F

Teamforce Company Limited

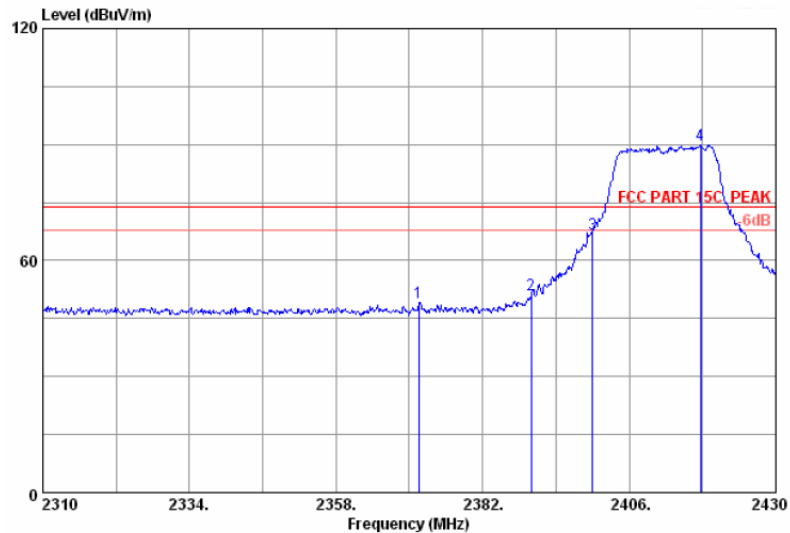
FCC ID: N3ITF3003WX

Mode: Operation mode 4

Antenna Polarization: Horizontal



	Ant. Freq. (MHz)	Cable Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	37.77	37.98	54.00	16.02	Average
2	2400.000	29.44	7.43	36.62	48.14	48.39	54.00	5.61	Average
3	2417.400	29.45	7.43	36.61	76.64	76.91	54.00	-22.91	Average

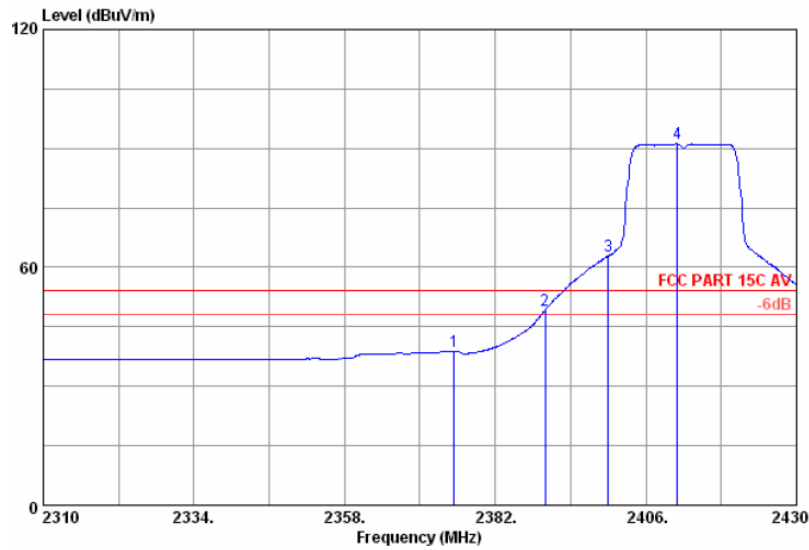


	Ant. Freq. (MHz)	Cable Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2371.560	29.43	7.35	36.62	49.07	49.23	74.00	24.77	Peak
2	2390.000	29.44	7.39	36.62	50.99	51.20	74.00	22.80	Peak
3	2400.000	29.44	7.43	36.62	66.45	66.70	74.00	7.30	Peak
4	2417.640	29.45	7.43	36.61	89.62	89.89	74.00	-15.89	Peak

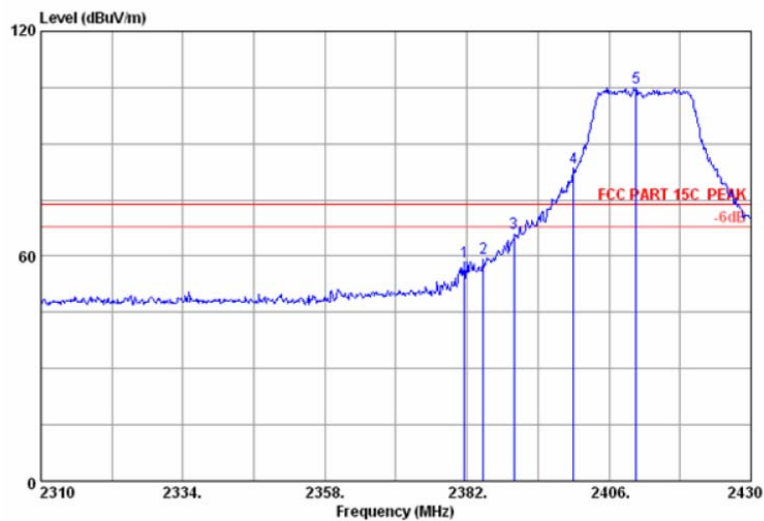
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Reference No.: WT12053177-D-S-F

Mode: Operation mode 4**Antenna Polarization: Vertical**

	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2375.400	29.43	7.35	36.62	38.71	38.87	54.00	15.13	Average
2	2390.000	29.44	7.39	36.62	49.06	49.27	54.00	4.73	Average
3	2400.000	29.44	7.43	36.62	62.66	62.91	54.00	-8.91	Average
4	2411.040	29.45	7.43	36.62	90.87	91.13	54.00	-37.13	Average



	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2381.640	29.43	7.39	36.62	58.24	58.44	74.00	15.56	Peak
2	2384.760	29.43	7.39	36.62	59.22	59.42	74.00	14.58	Peak
3	2390.000	29.44	7.39	36.62	66.05	66.26	74.00	7.74	Peak
4	2400.000	29.44	7.43	36.62	83.29	83.54	74.00	-9.54	Peak
5	2410.560	29.45	7.43	36.62	104.76	105.02	74.00	-31.02	Peak

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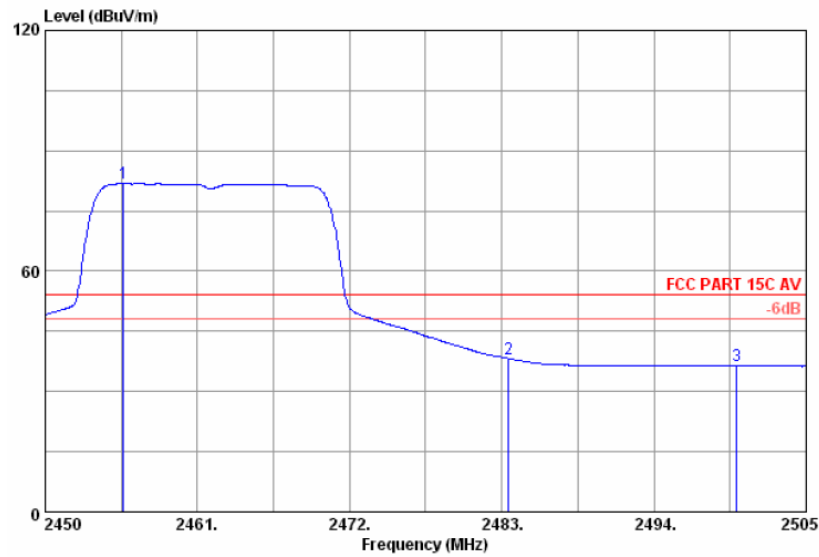
Reference No.: WT12053177-D-S-F

Teamforce Company Limited

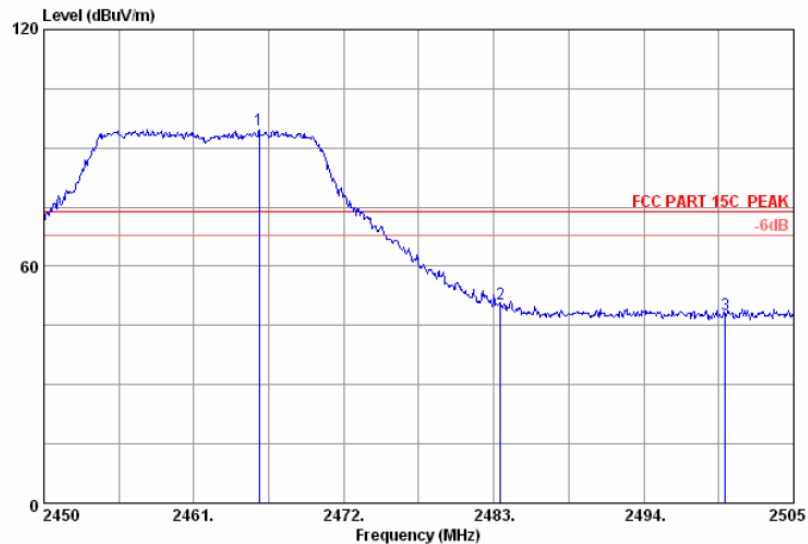
FCC ID: N3ITF3003WX

Mode: Operation mode 6

Antenna Polarization: Horizontal



	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2455.665	29.48	7.50	36.61	81.47	81.84	54.00	-27.84	Average
2	2483.500	29.49	7.58	36.60	37.75	38.22	54.00	15.78	Average
3	2500.000	29.50	7.62	36.60	35.95	36.47	54.00	17.53	Average

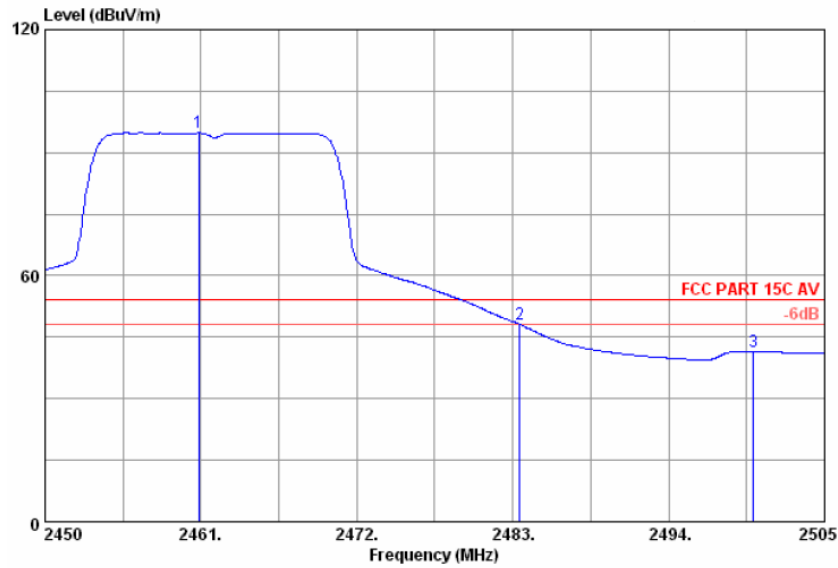


	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2465.785	29.48	7.54	36.61	94.30	94.71	74.00	-20.71	Peak
2	2483.500	29.49	7.58	36.60	50.03	50.50	74.00	23.50	Peak
3	2500.000	29.50	7.62	36.60	47.29	47.81	74.00	26.19	Peak

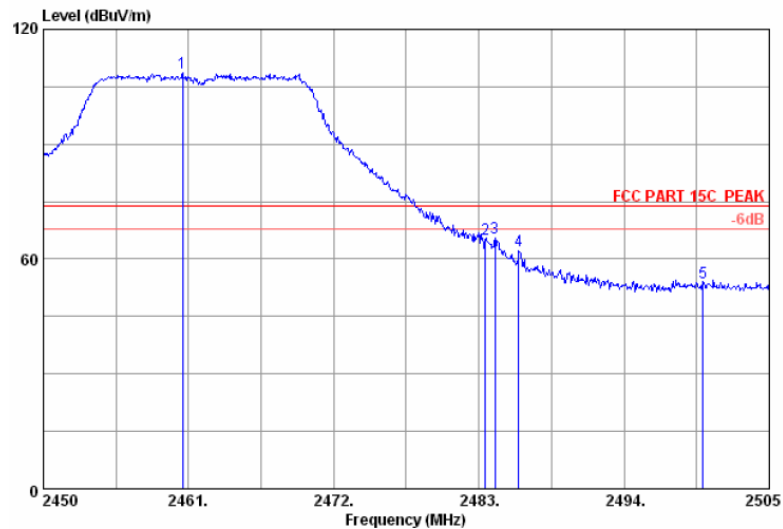
The results shown in this test report refer only to the sample(s) tested, This Test report cannot be reproduced, except in full, without prior written permission of the Company.

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Reference No.: WT12053177-D-S-F

Mode: Operation mode 6**Antenna Polarization: Vertical**

	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2460.835	29.48	7.54	36.61	94.38	94.79	54.00	-40.79	Average
2	2483.500	29.49	7.58	36.60	47.65	48.12	54.00	5.88	Average
3	2500.000	29.50	7.62	36.60	40.97	41.49	54.00	12.51	Average



	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2460.560	29.48	7.54	36.61	108.38	108.79	74.00	-34.79	Peak
2	2483.500	29.49	7.58	36.60	64.73	65.20	74.00	8.80	Peak
3	2484.210	29.49	7.58	36.60	64.88	65.35	74.00	8.65	Peak
4	2486.025	29.49	7.58	36.60	61.68	62.15	74.00	11.85	Peak
5	2500.000	29.50	7.62	36.60	53.38	53.90	74.00	20.10	Peak

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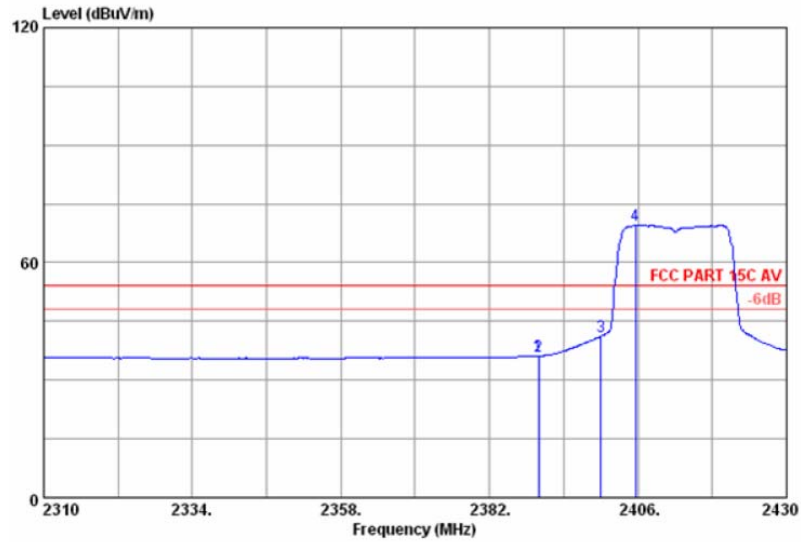
Reference No.: WT12053177-D-S-F

Teamforce Company Limited

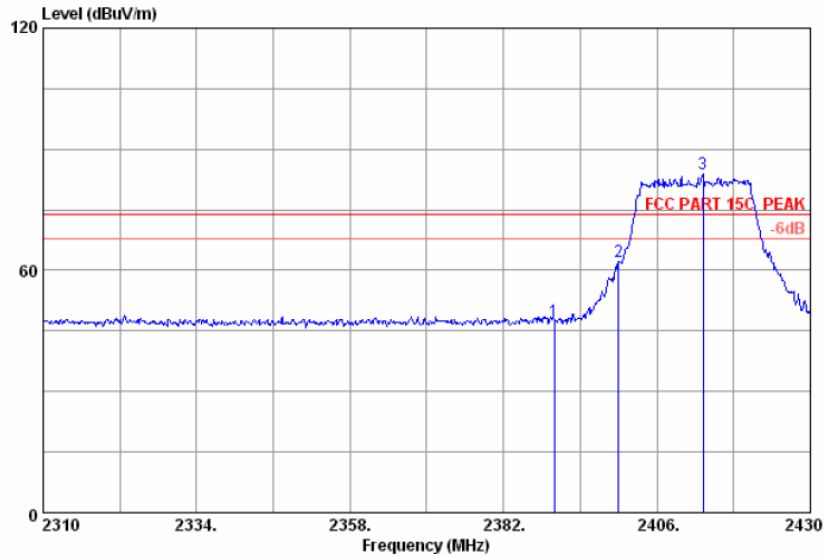
FCC ID: N3ITF3003WX

Mode: Operation mode 7

Antenna Polarization: Horizontal



	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	35.92	36.13	54.00	17.87	Average
2	2390.000	29.44	7.39	36.62	35.92	36.13	54.00	17.87	Average
3	2400.000	29.44	7.43	36.62	40.98	41.23	54.00	12.77	Average
4	2405.640	29.45	7.43	36.62	69.27	69.53	54.00	-15.53	Average

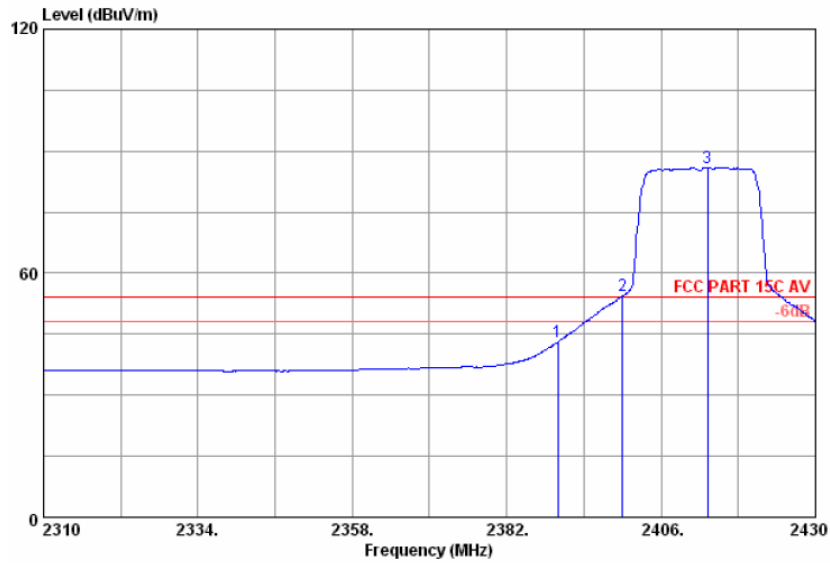


	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	47.14	47.35	74.00	26.65	Peak
2	2400.000	29.44	7.43	36.62	62.03	62.28	74.00	11.72	Peak
3	2413.200	29.45	7.43	36.62	83.52	83.78	74.00	-9.78	Peak

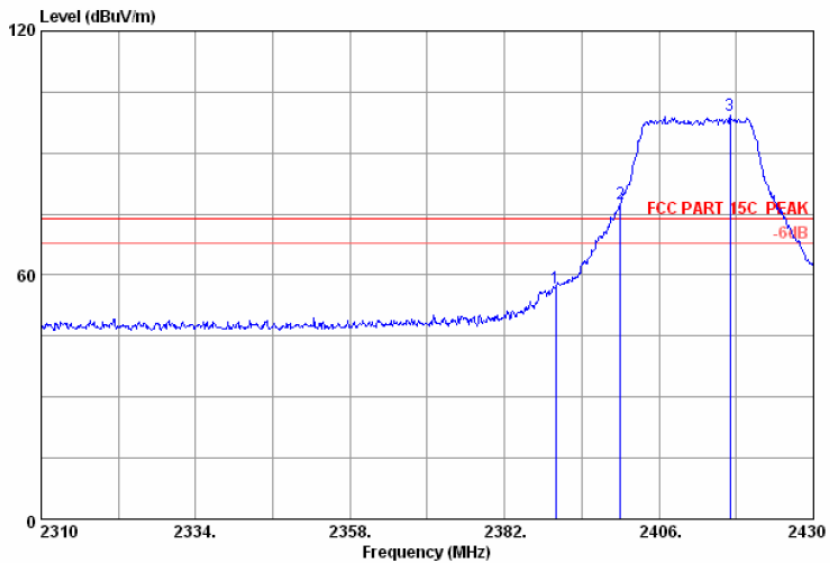
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Reference No.: WT12053177-D-S-F

Mode: Operation mode 7**Antenna Polarization: Vertical**

	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	42.94	43.15	54.00	10.85	Average
2	2400.000	29.44	7.43	36.62	54.15	54.40	54.00	-0.40	Average
3	2413.200	29.45	7.43	36.62	85.74	86.00	54.00	-32.00	Average



	Ant. Freq. (MHz)	Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	56.47	56.68	74.00	17.32	Peak
2	2400.000	29.44	7.43	36.62	77.14	77.39	74.00	-3.39	Peak
3	2417.040	29.45	7.43	36.61	99.08	99.35	74.00	-25.35	Peak

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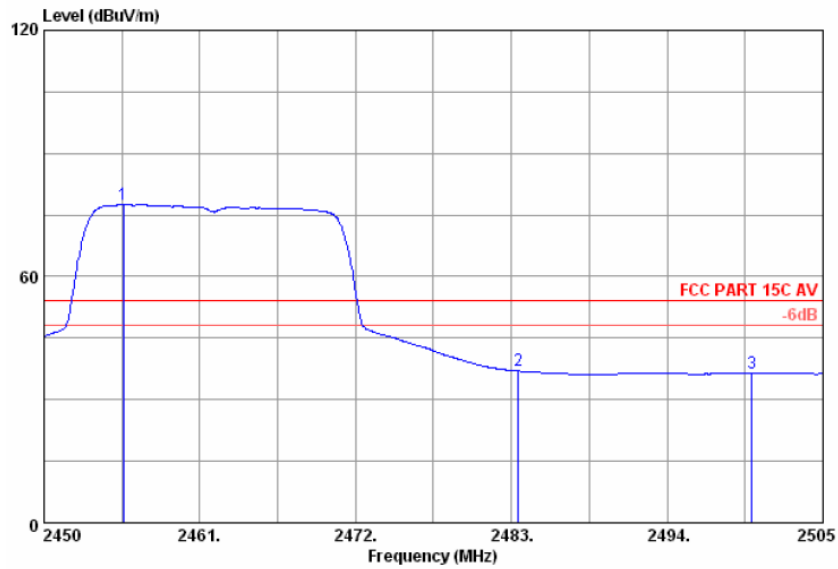
Reference No.: WT12053177-D-S-F

Teamforce Company Limited

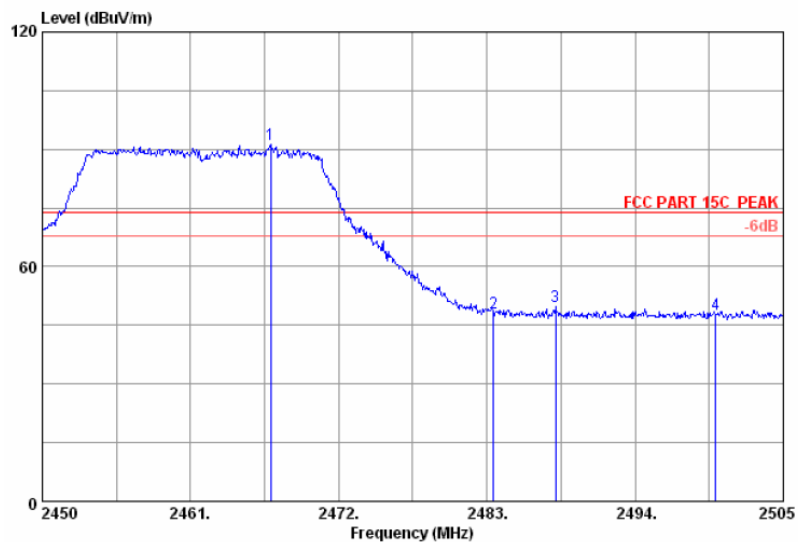
FCC ID: N3ITF3003WX

Mode: Operation mode 9

Antenna Polarization: Horizontal



	Ant. Freq. (MHz)	Cable Factor (dB/m)	loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2455.610	29.48	7.50	36.61	77.16	77.53	54.00	-23.53	Average
2	2483.500	29.49	7.58	36.60	36.50	36.97	54.00	17.03	Average
3	2500.000	29.50	7.62	36.60	35.76	36.28	54.00	17.72	Average

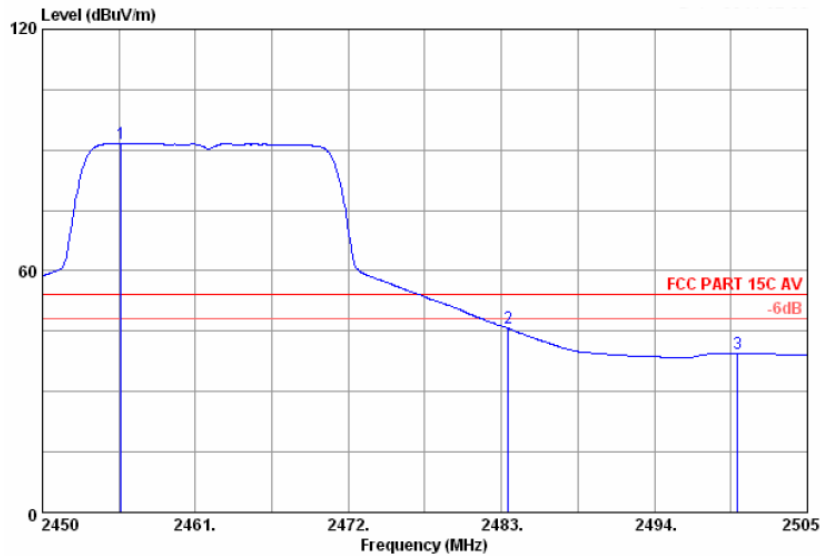


	Ant. Freq. (MHz)	Cable Factor (dB/m)	loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2466.940	29.48	7.54	36.60	90.67	91.09	74.00	-17.09	Peak
2	2483.500	29.49	7.58	36.60	47.51	47.98	74.00	26.02	Peak
3	2488.115	29.50	7.58	36.60	49.20	49.68	74.00	24.32	Peak
4	2500.000	29.50	7.62	36.60	47.19	47.71	74.00	26.29	Peak

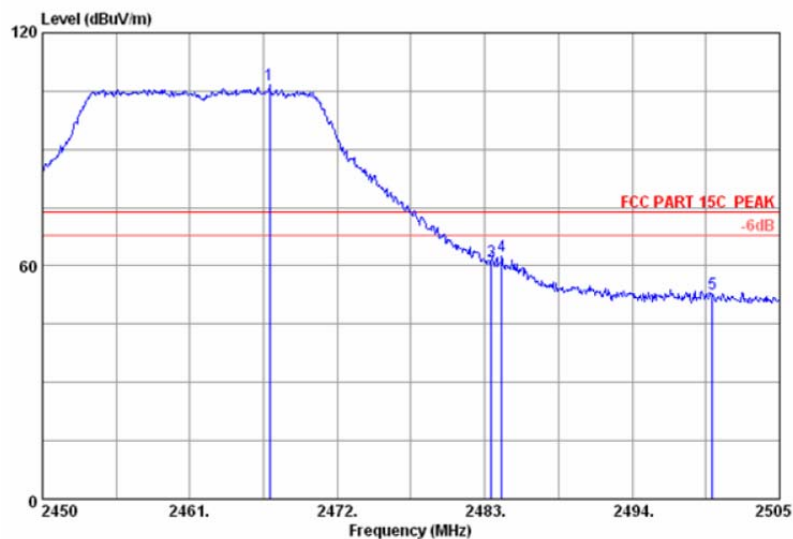
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Reference No.: WT12053177-D-S-F

Mode: Operation mode 9**Antenna Polarization: Vertical**

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2455.665	29.48	7.50	36.61	91.34	91.71	54.00	-37.71	Average
2	2483.500	29.49	7.58	36.60	45.24	45.71	54.00	8.29	Average
3	2500.000	29.50	7.62	36.60	38.93	39.45	54.00	14.55	Average



	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2466.940	29.48	7.54	36.60	106.25	106.67	74.00	-32.67	Peak
2	2483.500	29.49	7.58	36.60	60.58	61.05	74.00	12.95	Peak
3	2483.500	29.49	7.58	36.60	60.58	61.05	74.00	12.95	Peak
4	2484.265	29.49	7.58	36.60	62.19	62.66	74.00	11.34	Peak
5	2500.000	29.50	7.62	36.60	52.13	52.65	74.00	21.35	Peak

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WALTEK SERVICES

Reference No.: WT12053177-D-S-F

9 6 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB Publication No. 558074

9.1 Test Procedure:

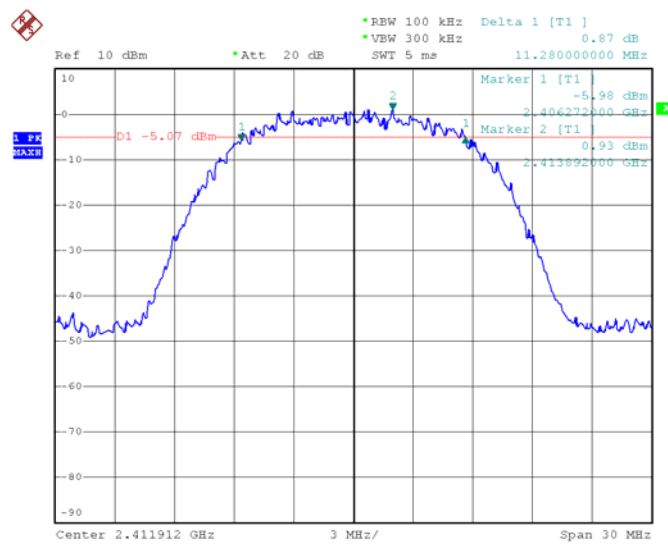
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 100kHz

9.2 Test Result:

Operation mode	Bandwidth MHz
1	11.28
2	11.26
3	11.28
4	16.56
5	16.51
6	16.56
7	17.70
8	17.77
9	17.71

Test result plot as follows:

Mode: Operation mode 1

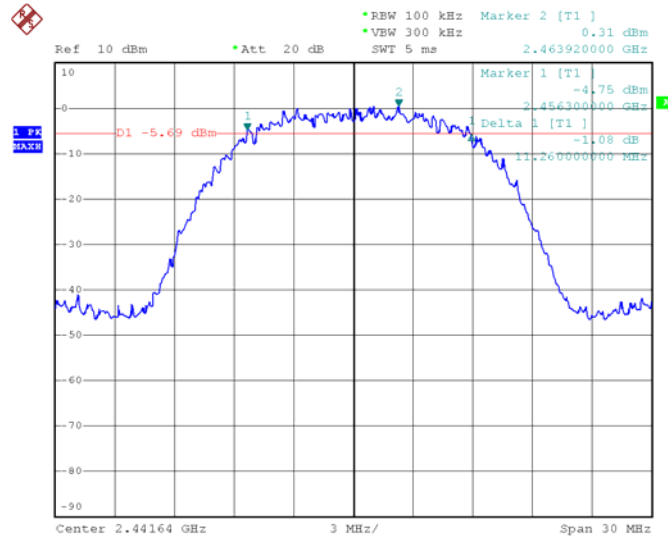


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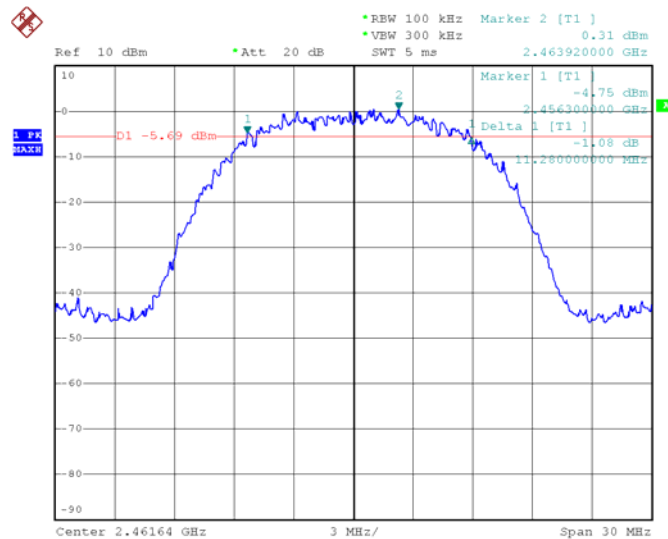
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Reference No.: WT12053177-D-S-F

Mode:Operation mode 2



Mode:Operation mode 3



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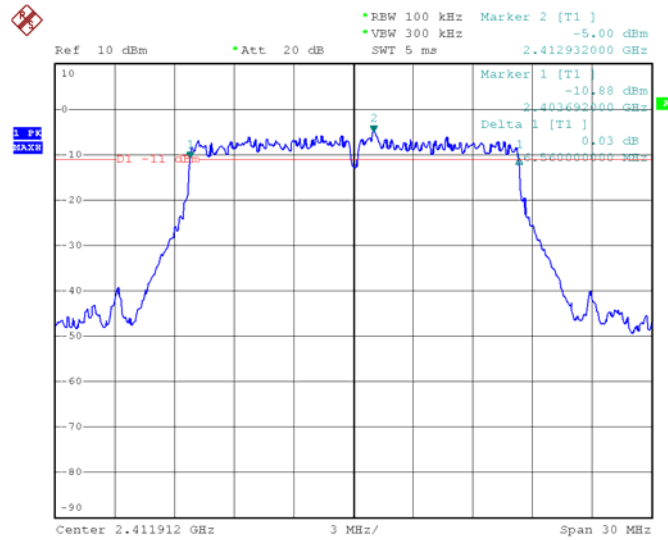
WALTEK SERVICES

Reference No.: WT12053177-D-S-F

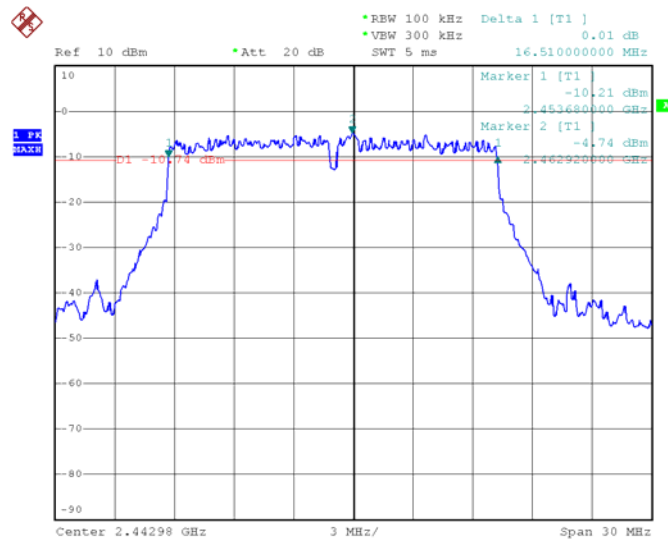
Teamforce Company Limited

FCC ID: N3ITF3003WX

Mode: Operation mode 4



Mode: Operation mode 5



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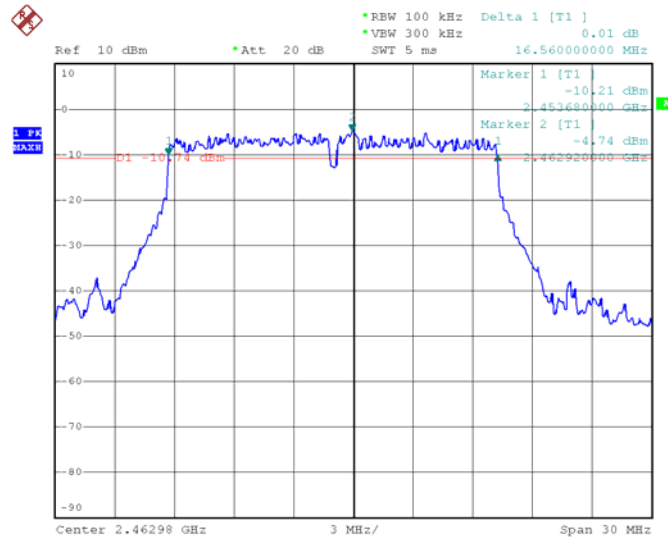
WALTEK SERVICES

Reference No.: WT12053177-D-S-F

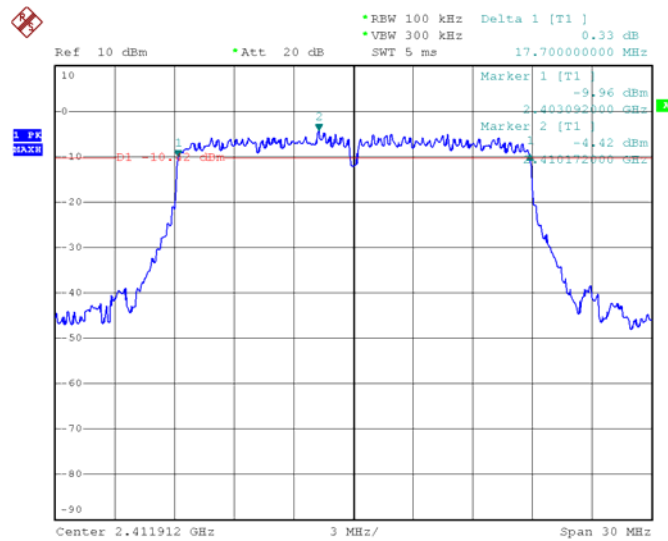
Teamforce Company Limited

FCC ID: N3ITF3003WX

Mode: Operation mode 6



Mode: Operation mode 7



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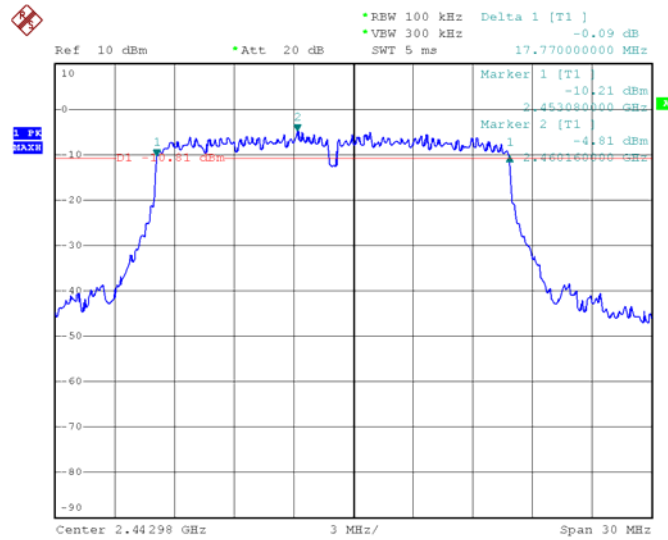
WALTEK SERVICES

Reference No.: WT12053177-D-S-F

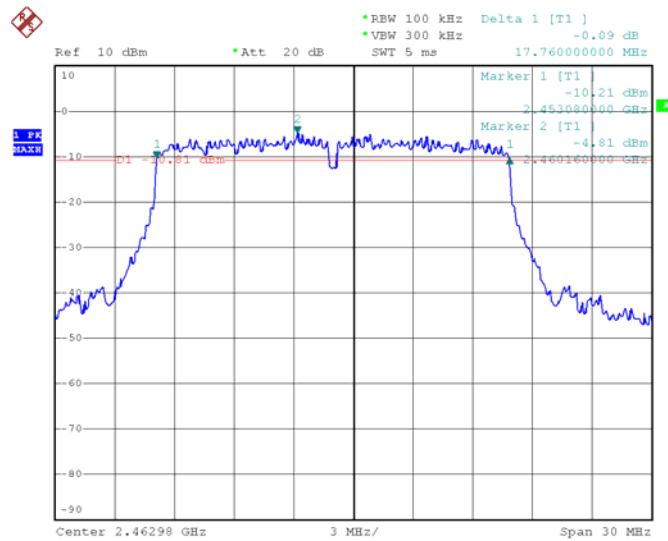
Teamforce Company Limited

FCC ID: N3ITF3003WX

Mode: Operation mode 8



Mode: Operation mode 9



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10 Maximum Peak Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB Publication No. 558074

10.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3 MHz. VBW = 10 MHz. Sweep = auto; Detector Function = Peak.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

10.2 Test Result:

Operation mode	Output Power (dBm)	Antenna gain (dBi)	Limit (dBm)
1	5.98	2.0	30
2	5.99	2.0	30
3	5.80	2.0	30
4	4.37	2.0	30
5	5.08	2.0	30
6	5.18	2.0	30
7	4.99	2.0	30
8	4.67	2.0	30
9	4.51	2.0	30

11 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB Publication No. 558074

11.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 30kHz , Span = 1.5MHz. Sweep = 500s; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

11.2 Test Result:

Operation mode	Test value (dBm per 3KHz)	Antenna gain (dBi)	Limit (dBm per 3KHz)
1	-7.32	2.0	8
2	-7.18	2.0	8
3	-7.26	2.0	8
4	-8.23	2.0	8
5	-8.71	2.0	8
6	-8.98	2.0	8
7	-9.01	2.0	8
8	-9.37	2.0	8
9	-9.12	2.0	8

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12 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, 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. This product has a internal permanent antenna, fulfill the requirement of this section.



internal antenna

13 RF Exposure

Test Requirement: FCC Part 1.1307

Test Mode: The EUT work in test mode(Tx).

13.1 Requirments:

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

13.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

13.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

Operation mode	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	2	1.585	3.972	0.0013	1	Complies
6	2	1.585	3.296	0.0010	1	Complies
7	2	1.585	3.155	0.0009	1	Complies

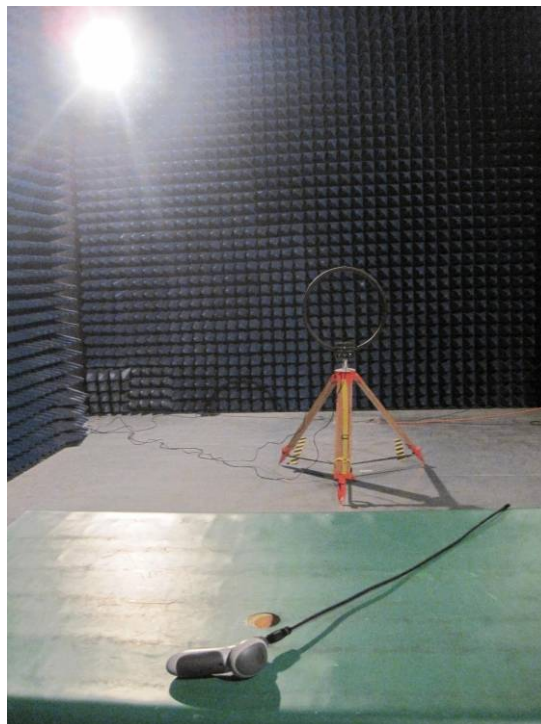
14 Photographs – Test Setup

14.1 Conducted Emission



14.2 Radiated Emission

Test frequency below 30MHz



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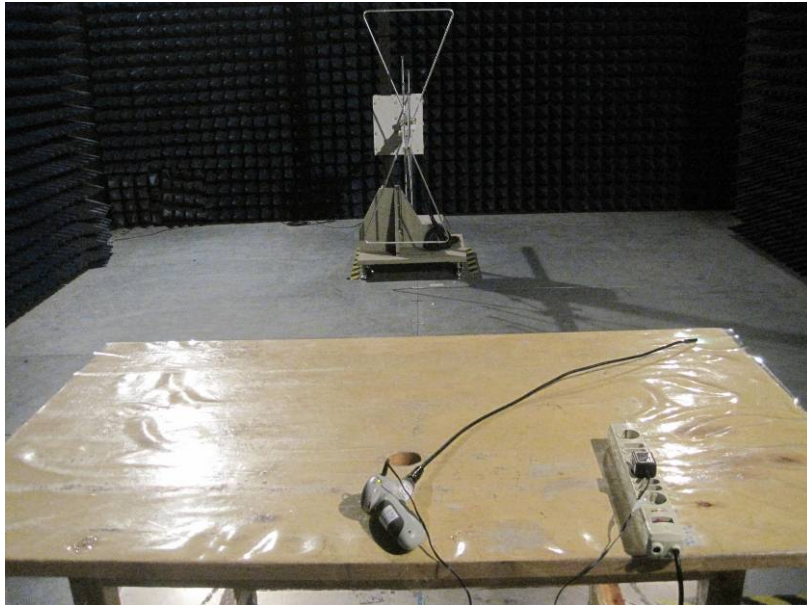
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Reference No.: WT12053177-D-S-F

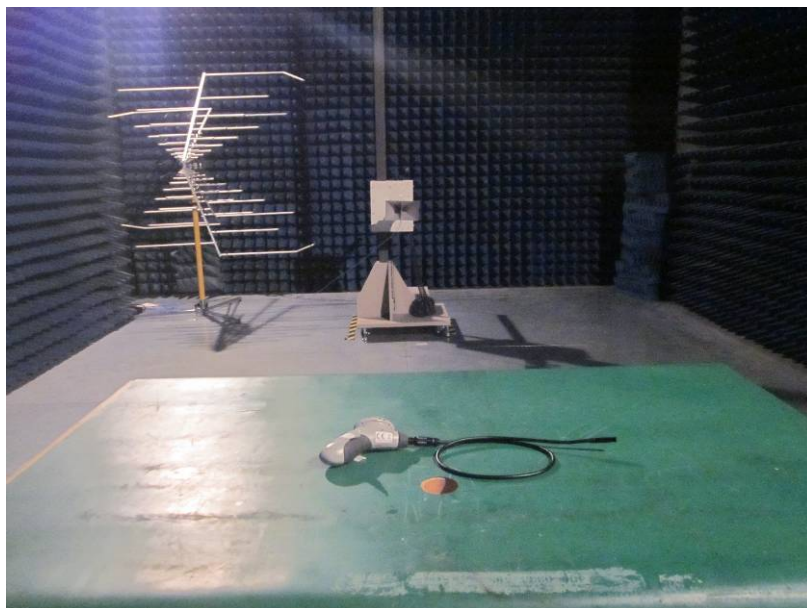
Teamforce Company Limited

FCC ID: N3ITF3003WX

Test frequency from 30MHz to 1GHz



Test frequency above 1GHz



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15 Photographs - Constructional Details

15.1 Product View



15.2 EUT – Appearance View



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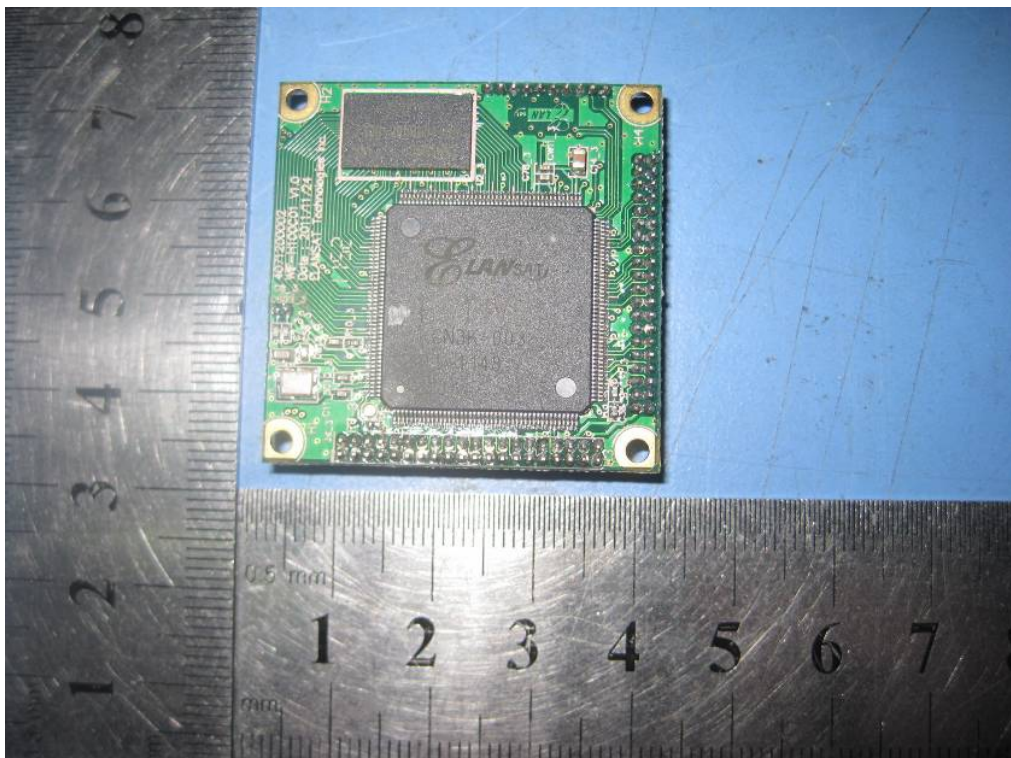
15.3 EUT-Open View

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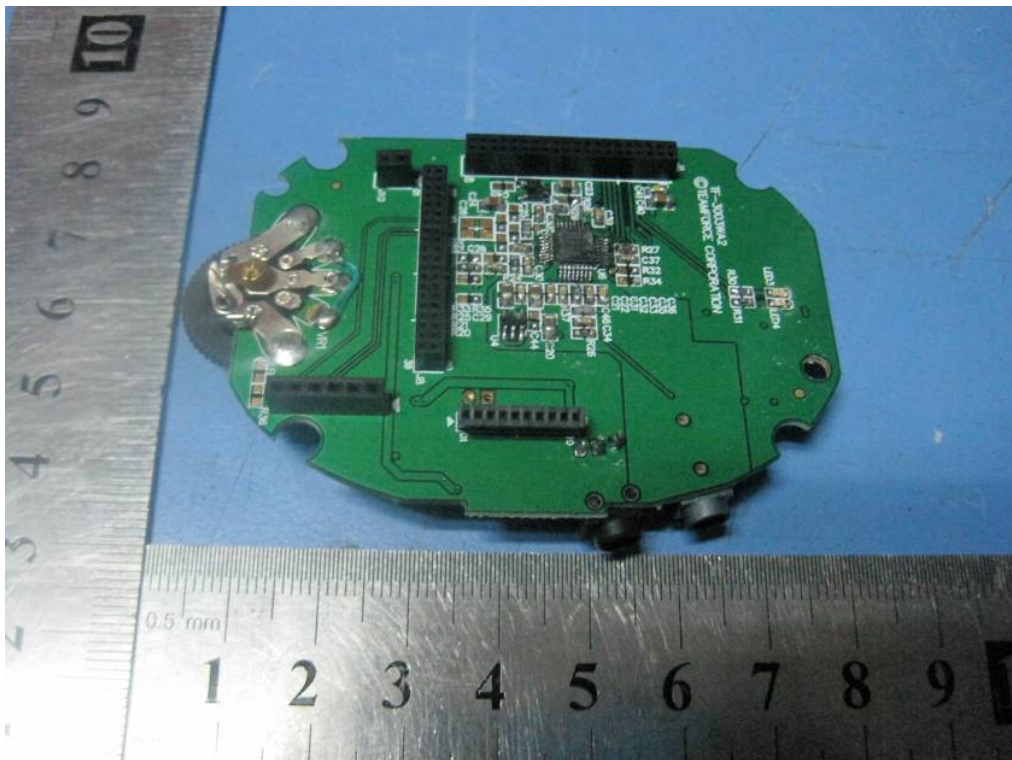
15.4 PCB - View



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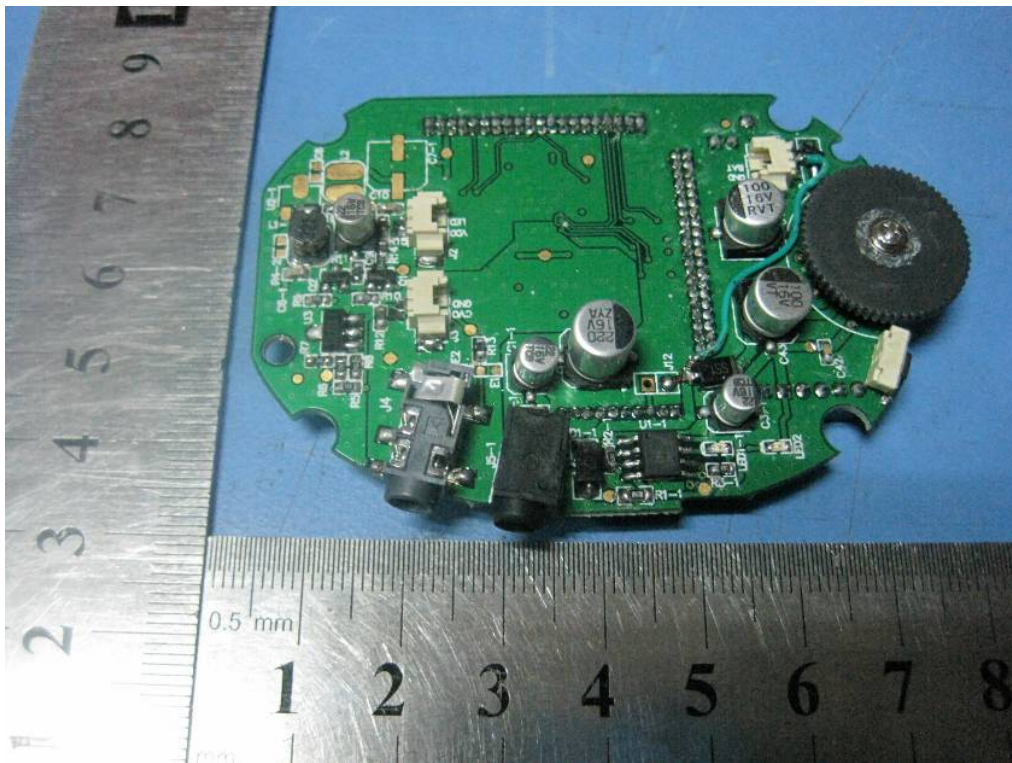
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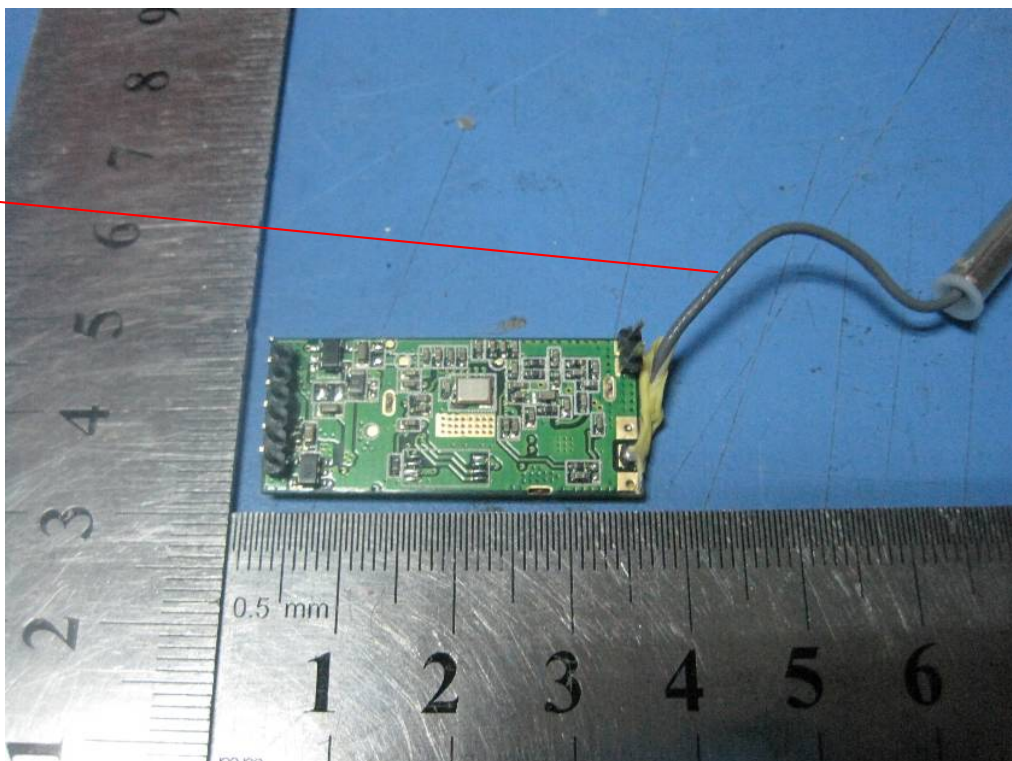
The results shown in this test report refer only to the sample(s) tested , This Test report cannot be reproduced, except in full, without prior written permission of the Company.

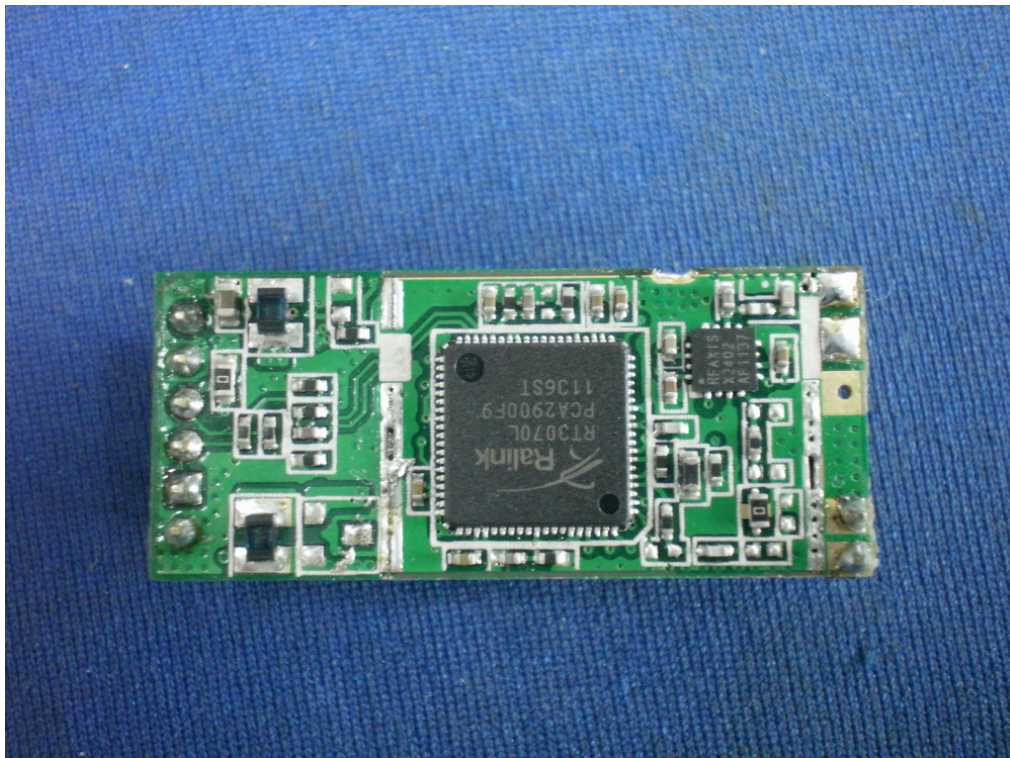
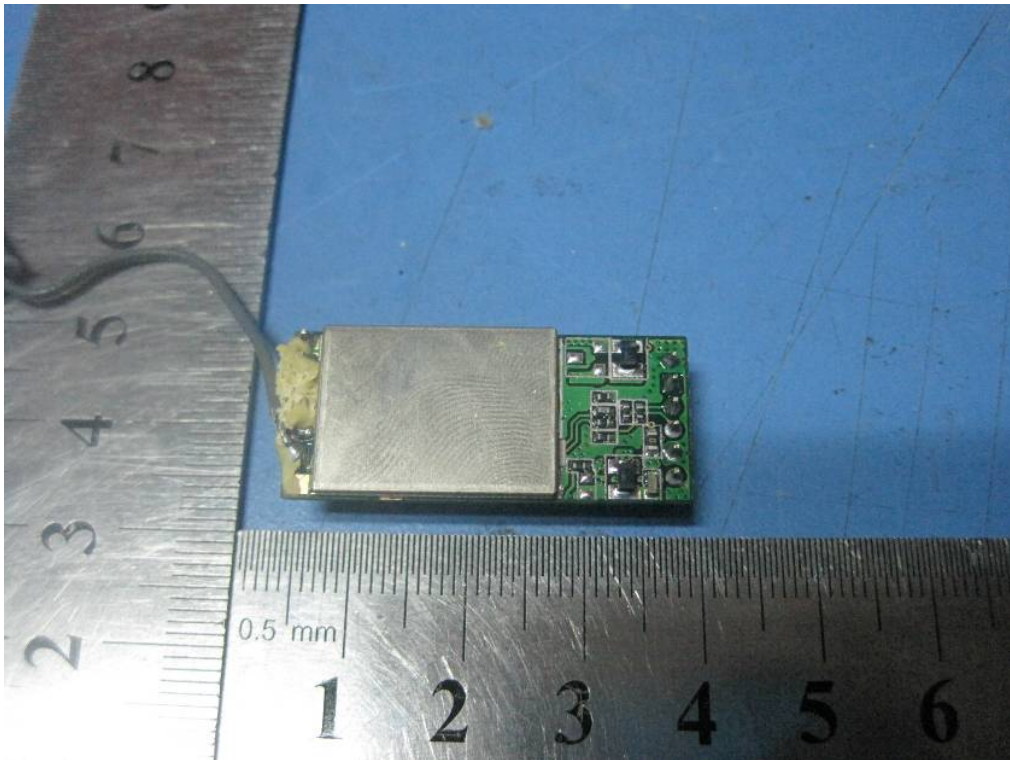
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Reference No.: WT12053177-D-S-F



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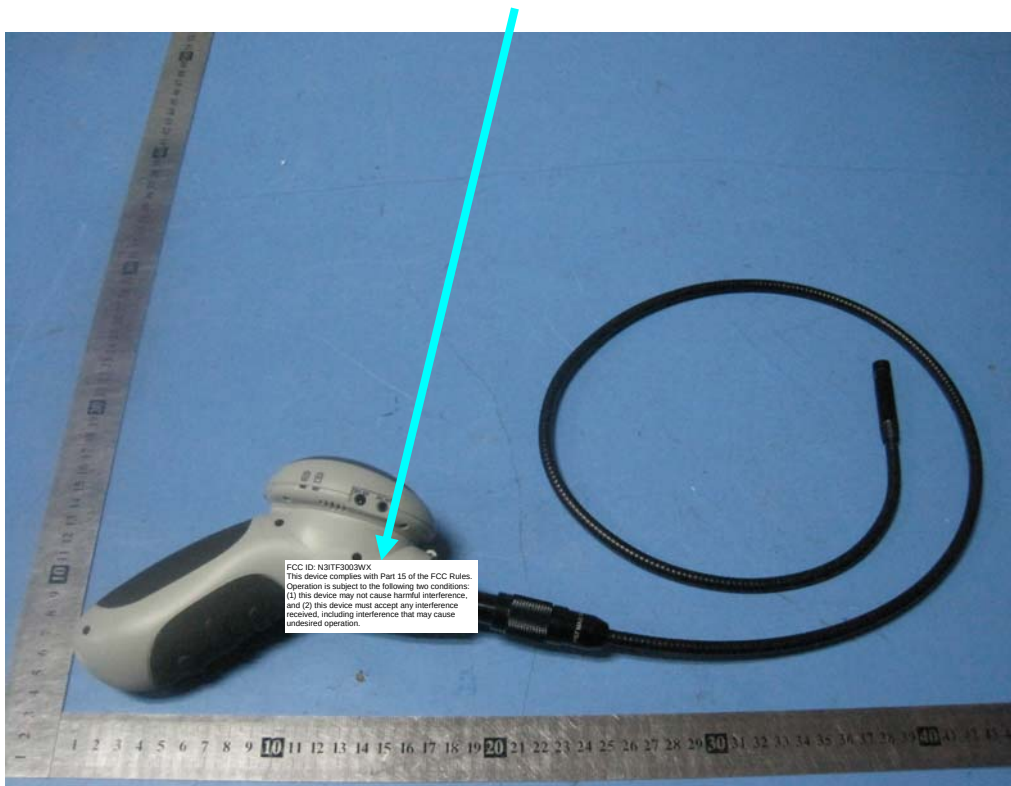


16 FCC Label

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

The Label must not be a stick-on paper. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT
EUT Back View/ proposed FCC Label Location



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