

TEST REPORT

Reference No...... : WTX23X07168251W001
FCC ID..... : 2A3AV-L4X
Applicant..... : Chongqing Qinchengxing Technology Co.,Ltd
Address..... : No.868 Chuangxin Avenue, Zitong Street, Tongnan District, Chongqing, China
Product Name..... : Autodolly
Test Model..... : L4X
Standards..... : FCC Part 15.249
Date of Receipt sample..... : July 11, 2023
Date of Test..... : July 11, 2023 to July 16, 2023
Date of Issue..... : July 16, 2023
Test Result..... : **Pass**

Remarks:

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. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,
Block 70 Bao'an District, Shenzhen, Guangdong, China

Tested by:

Jack Huang

Jack Huang

Approved & Authorized By:

Silin Chen

Silin Chen

TABLE OF CONTENTS

1. GENERAL INFORMATION	4
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
1.2 TEST STANDARDS	5
1.3 TEST METHODOLOGY	5
1.4 TEST FACILITY	5
1.5 EUT SETUP AND TEST MODE	6
1.6 MEASUREMENT UNCERTAINTY	6
1.7 TEST EQUIPMENT LIST AND DETAILS	7
2. SUMMARY OF TEST RESULTS	7
3. ANTENNA REQUIREMENTS	10
3.1 STANDARD APPLICABLE	10
3.2 TEST RESULT	10
4. RADIATED EMISSIONS	11
4.1 STANDARD APPLICABLE	11
4.2 TEST PROCEDURE	11
4.3 CORRECTED AMPLITUDE & MARGIN CALCULATION	14
4.4 SUMMARY OF TEST RESULTS/PLOTS	14
5. OUT OF BAND EMISSIONS	19
5.1 STANDARD APPLICABLE	19
5.2 TEST PROCEDURE	19
5.3 CORRECTED AMPLITUDE & MARGIN CALCULATION	19
5.4 SUMMARY OF TEST RESULTS/PLOTS	19
6. EMISSION BANDWIDTH	22
6.1 STANDARD APPLICABLE	22
6.2 TEST PROCEDURE	22
6.3 SUMMARY OF TEST RESULTS/PLOTS	22
7. CONDUCTED EMISSIONS	24
7.1 TEST PROCEDURE	24
7.2 BASIC TEST SETUP BLOCK DIAGRAM	24
7.3 TEST RECEIVER SETUP	24
7.4 SUMMARY OF TEST RESULTS/PLOTS	24
APPENDIX PHOTOGRAPHS	25

Report version

Version No.	Date of issue	Description
Rev.00	July 16, 2023	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Chongqing Qinchengxing Technology Co.,Ltd
Address of applicant: No.868 Chuangxin Avenue, Zitong Street, Tongnan District, Chongqing, China

Manufacturer: Chongqing Qinchengxing Technology Co.,Ltd
Address of manufacturer: No.868 Chuangxin Avenue, Zitong Street, Tongnan District, Chongqing, China

General Description of EUT	
Product Name:	Autodolly
Trade Name:	/
Model No.:	L4X
Adding Model:	/
Rated Voltage:	DC 3V from Battery
Battery capacity:	/
Power Adaptor:	/
Serial Number:	S01
Note: The test data is gathered from a production sample provided by the manufacturer.	

Technical Characteristics of EUT	
Frequency Range:	2405MHz-2475MHz
Max. Field Strength:	102.37dBuV/m
Modulation:	GFSK
Antenna Type:	PCB
Antenna Gain:	2.24dBi
Note: The Antenna Gain is provided by the customer and can affect the validity of results.	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.249: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (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. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

channel	Frequency (MHz)	channel	Frequency (MHz)	channel	Frequency (MHz)
00	2405	03	2451	06	2469
01	2411	04	2457	07	2475
02	2417	05	2463		

Test Mode List

Test Mode	Description	Remark
TM1	Low Channel	2405MHz
TM2	Middle Channel	2451MHz
TM3	High Channel	2475MHz

Test software (Fix the Tx frequency)	Power level(Testing)
Description	level
Fix the TX frequency via mouse button	Index

Test Conditions

Temperature:	22~25 °C
Relative Humidity:	45~55 %
ATM Pressure:	1019 mbar

EUT Cable List and Details

Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Special Cable List and Details

Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty

Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$

Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-18GHz $\pm 3.92\text{dB}$
Transmitter Spurious Emissions		

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde & Schwarz	CMW500	148650	2023-03-27	2024-03-26
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2023-03-27	2024-03-26
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2023-03-27	2024-03-26
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2023-03-27	2024-03-26
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2023-03-27	2024-03-26
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2023-03-27	2024-03-26
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2023-03-27	2024-03-26
SEMT-1082	Power Divider	RF-Lambda	RFLT4W5M18G	14110400027	2023-03-27	2024-03-26
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2023-03-27	2024-03-26
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2023-03-27	2024-03-26
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2023-04-12	2024-04-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2023-04-12	2024-04-11
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2023-04-12	2024-04-11
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2023-04-12	2024-04-11
SEMT-1042	Horn Antenna	ETS	3117	00086197	2023-04-12	2024-04-11
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2023-04-12	2024-04-11
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2023-04-12	2024-04-11
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2023-04-12	2024-04-11
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2023-04-12	2024-04-11
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2023-04-12	2024-04-11
SEMT-1096	Power Sensor	Agilent	U2021XA	MY54250019	2023-04-12	2024-04-11
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	/	/
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	/	/
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	/	/
SEMT-C004	Cable	Zheng DI	2M0RFC	/	/	/
SEMT-C005	Cable	Zheng DI	1M0RFC	/	/	/
SEMT-C006	Cable	Zheng DI	1M0RFC	/	/	/

Software List			
Description	Manufacturer	Model	Version

Reference No.: WTX22X0803019W

EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

*Remark: indicates software version used in the compliance certification testing

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.207(a)	Conducted Emission	N/A
§15.209(a)(f)	Radiated Spurious Emissions	Compliant
§15.249(a)	Field Strength of Emissions	Compliant
§15.249(d)	Out of Band Emission	Compliant
§15.215(c)	Emission Bandwidth	Compliant

N/A: Not applicable.

3. Antenna Requirements

3.1 Standard Applicable

According to FCC Part 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.

3.2 Test Result

This product has a PCB antenna, fulfill the requirement of this section.

4. Radiated Emissions

4.1 Standard Applicable

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of Harmonics (micro-volts/meter)
902-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

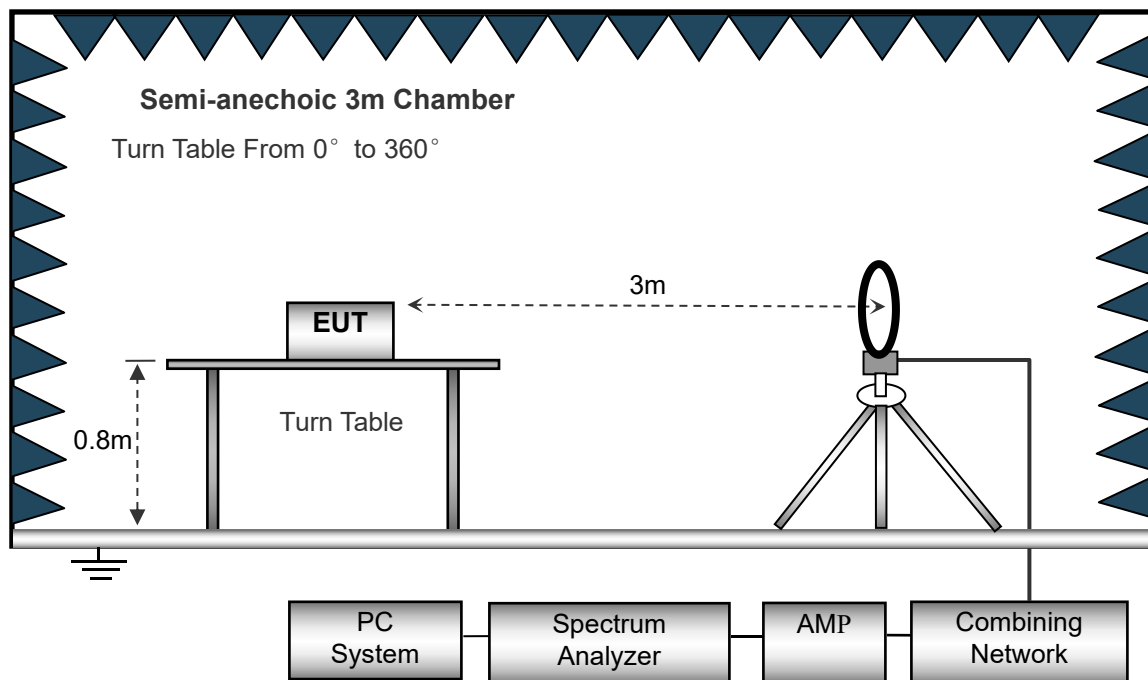
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

4.2 Test Procedure

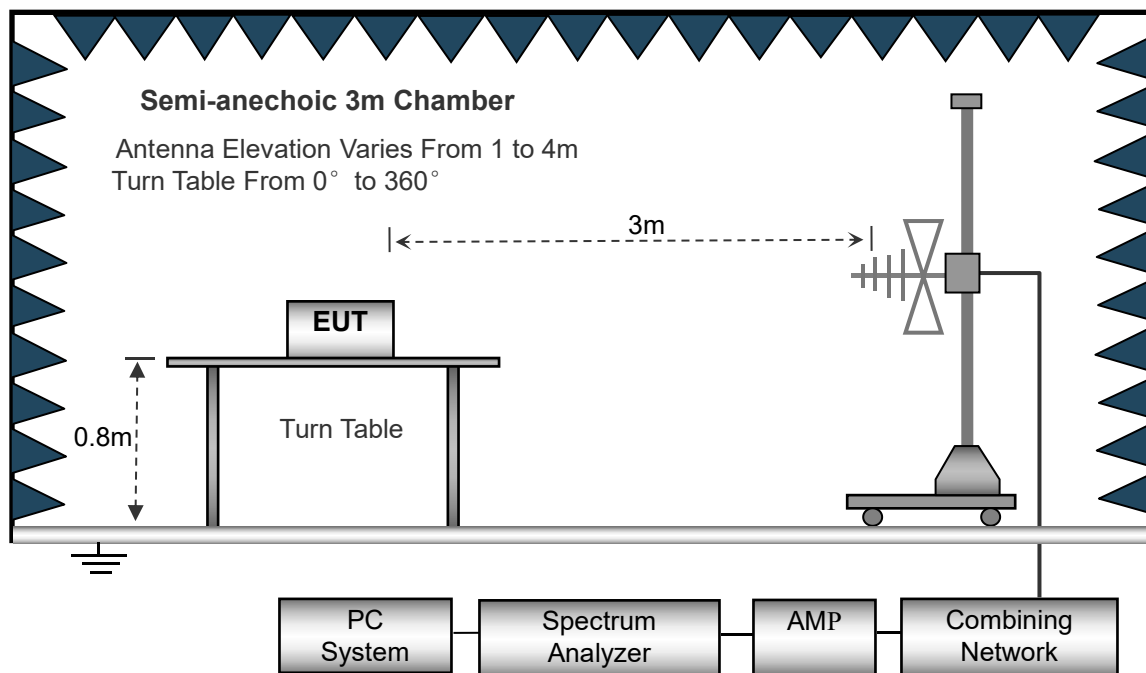
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.249(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

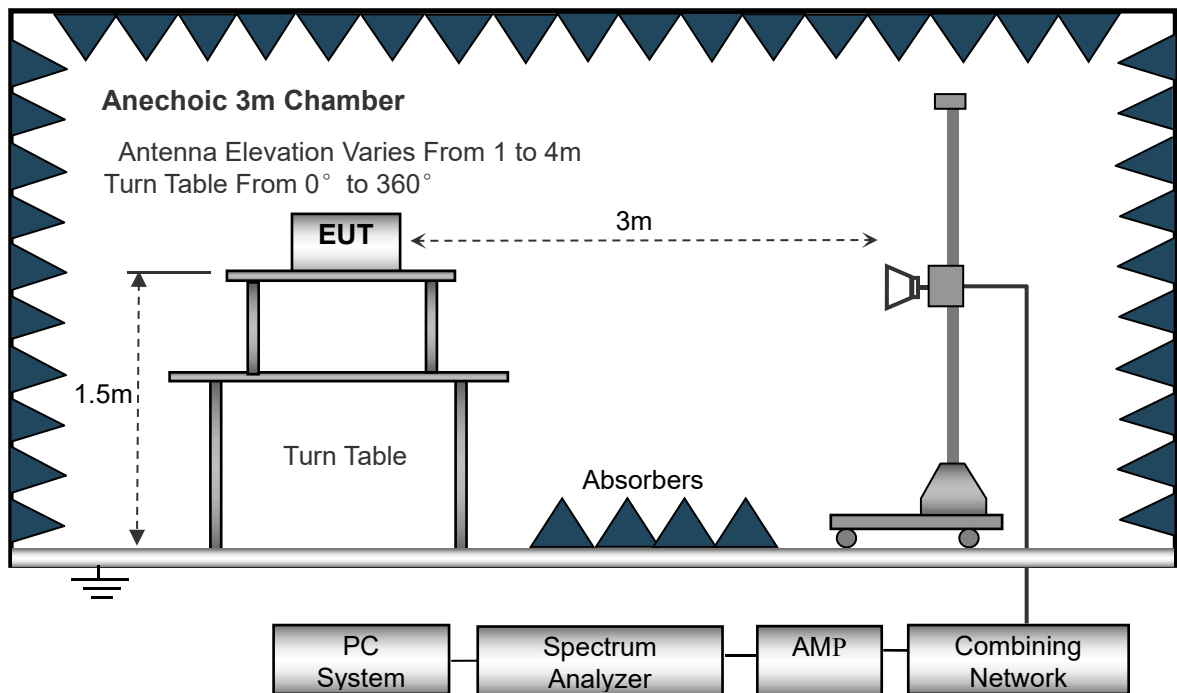
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1GHz.



Frequency :9kHz-30MHz
RBW=10KHz,
VBW =30KHz
Sweep time= Auto
Trace = max hold
Detector function = peak

Frequency :30MHz-1GHz
RBW=120KHz,
VBW=300KHz
Sweep time= Auto
Trace = max hold
Detector function = peak, QP

Frequency :Above 1GHz
RBW=1MHz,
VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto
Trace = max hold
Detector function = peak, AV

4.3 Corrected Amplitude & Margin Calculation

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

$$\text{Result} = \text{Indicated Reading} + \text{Correct}$$

$$\text{Correct} = \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

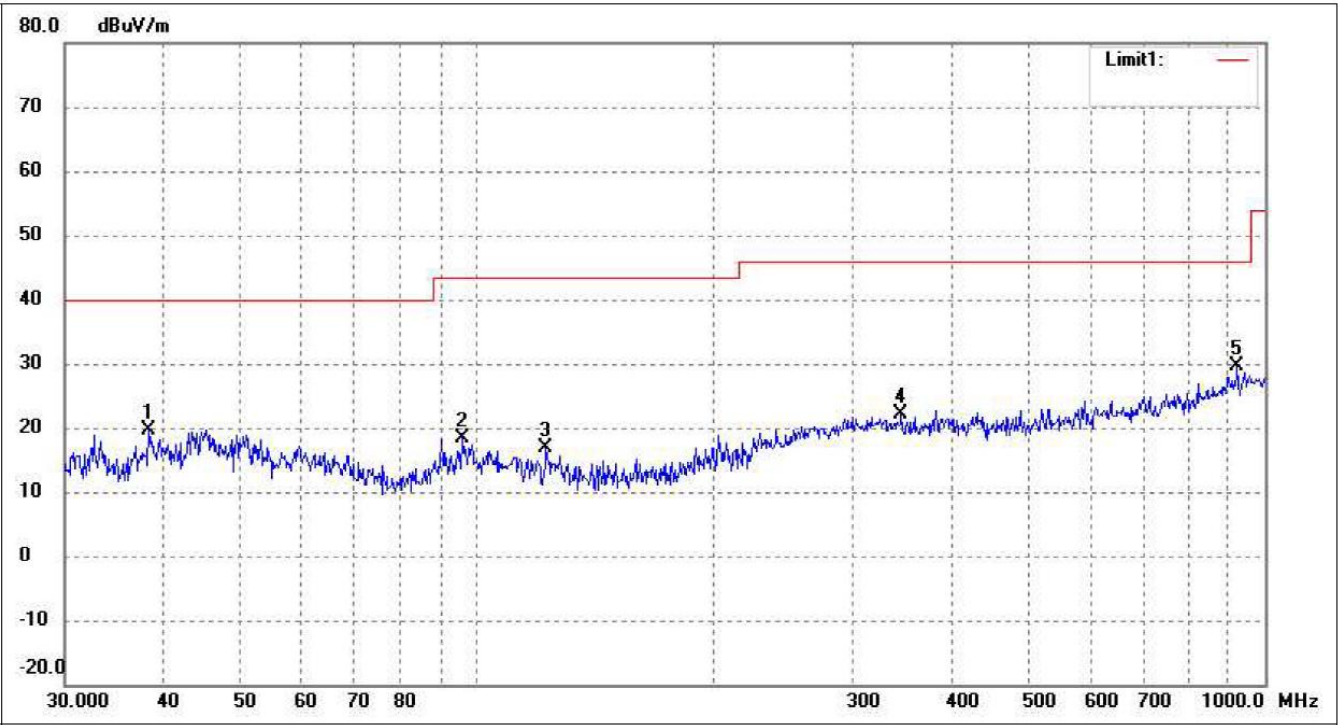
$$\text{Margin} = \text{Result} - \text{FCC Part 15C Limit}$$

4.4 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

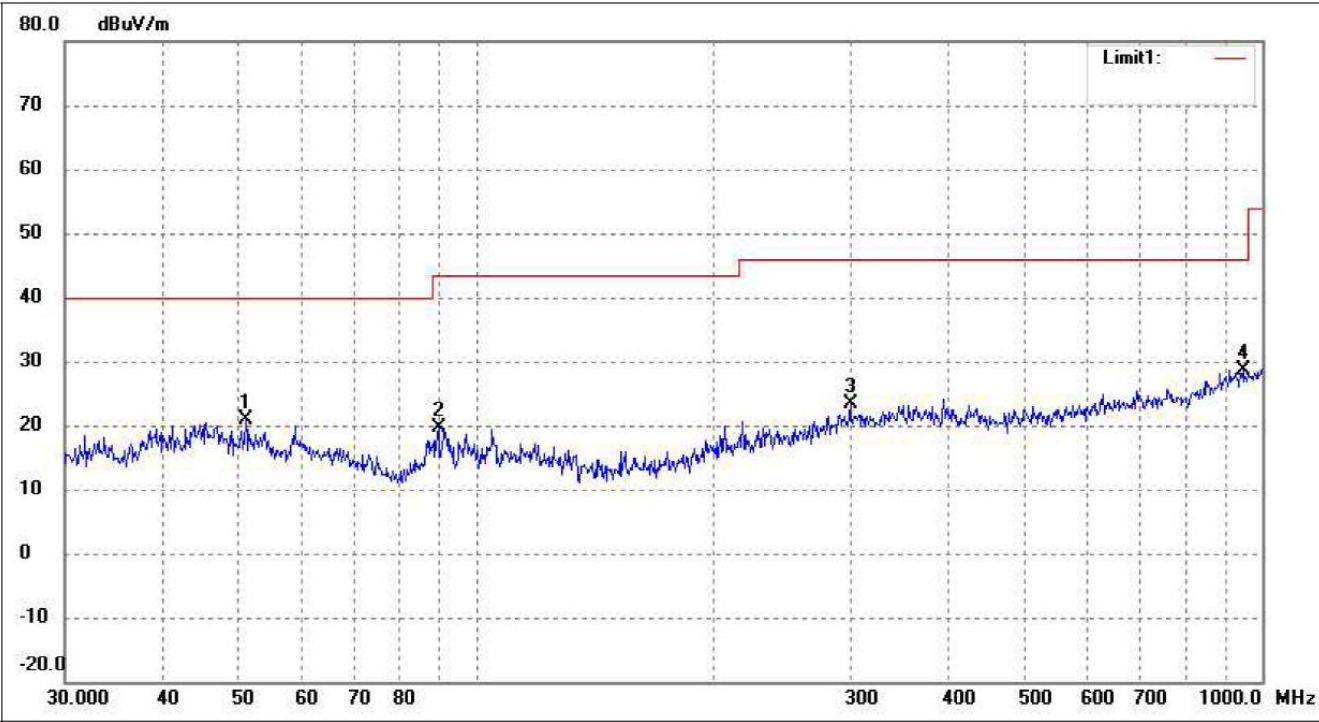
➤ Spurious Emissions Below 1GHz

Test Channel	TX-Low channel	Polarity:	Horizontal
--------------	----------------	-----------	------------



No.	Frequency (MHz)	Reading (dBuV)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.3462	34.47	-14.80	19.67	40.00	-20.33	335	100	peak
2	95.7622	34.14	-15.77	18.37	43.50	-25.13	314	100	peak
3	122.4039	33.06	-16.23	16.83	43.50	-26.67	78	100	peak
4	345.5951	29.93	-7.74	22.19	46.00	-23.81	273	100	peak
5	922.5157	30.50	-0.82	29.68	46.00	-16.32	85	100	peak

Test Channel	TX-Low channel	Polarity:	Vertical
--------------	----------------	-----------	----------



No.	Frequency (MHz)	Reading (dBuV)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.9420	34.89	-13.90	20.99	40.00	-19.01	358	100	peak
2	89.5900	36.59	-17.00	19.59	43.50	-23.91	312	100	peak
3	299.3158	31.30	-7.87	23.43	46.00	-22.57	84	100	peak
4	945.4398	29.80	-1.09	28.71	46.00	-17.29	275	100	peak

Spurious Emissions Above 1GHz

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2405MHz							
2405.00	111.85	-9.48	102.37	114	-11.63	H	PK
2405.00	101.42	-9.48	91.94	94	-2.06	H	AV
4810.00	65.34	-4.42	60.92	74	-13.08	H	PK
4810.00	45.87	-4.42	41.45	54	-12.55	H	AV
7215.00	54.59	-2.13	52.46	74	-21.54	H	PK
7215.00	45.48	-2.13	43.35	54	-10.65	H	AV
2405.00	99.47	-9.48	89.99	114	-24.01	V	PK
2405.00	89.46	-9.48	79.98	94	-14.02	V	AV
4810.00	61.30	-4.42	56.88	74	-17.12	V	PK
4810.00	44.38	-4.42	39.96	54	-14.04	V	AV
7215.00	46.33	-2.13	44.20	74	-29.80	V	PK
7215.00	42.25	-2.13	40.12	54	-13.88	V	AV
Middle Channel-2451MHz							
2451.00	110.57	-9.45	100.24	114	-13.76	H	PK
2451.00	101.02	-9.45	91.57	94	-2.43	H	AV
4902.00	64.80	-4.42	60.38	74	-13.62	H	PK
4902.00	47.30	-4.42	42.88	54	-11.12	H	AV
7353.00	56.07	-2.13	53.94	74	-20.06	H	PK
7353.00	45.20	-2.13	43.07	54	-10.93	H	AV
2451.00	98.82	-9.41	89.41	114	-24.59	V	PK
2451.00	88.22	-9.41	78.81	94	-15.19	V	AV
4902.00	60.16	-4.42	55.74	74	-18.26	V	PK
4902.00	44.91	-4.42	40.49	54	-13.51	V	AV
7353.00	45.53	-2.13	43.40	74	-30.60	V	PK
7353.00	42.71	-2.13	40.58	54	-13.42	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
High Channel-2475MHz							
2475.00	110.57	-9.41	101.24	114	-12.76	H	PK
2475.00	101.93	-9.41	92.59	94	-1.41	H	AV
4950.00	65.36	-4.42	60.94	74	-13.06	H	PK
4950.00	44.86	-4.42	40.44	54	-13.56	H	AV
7425.00	54.96	-2.13	52.83	74	-21.17	H	PK
7425.00	44.73	-2.13	42.60	54	-11.40	H	AV
2475.00	98.90	-9.41	89.49	114	-24.51	V	PK
2475.00	90.64	-9.41	81.23	94	-12.77	V	AV
4950.00	61.63	-4.42	57.21	74	-16.79	V	PK
4950.00	45.80	-4.42	41.38	54	-12.62	V	AV
7425.00	45.62	-2.13	43.49	74	-30.51	V	PK
7425.00	43.00	-2.13	40.87	54	-13.13	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 4th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 30MHz..

5. Out of Band Emissions

5.1 Standard Applicable

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 Test Procedure

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2483.5MHz, than mark the higher-level emission for comparing with the FCC rules.

5.3 Corrected Amplitude & Margin Calculation

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

$$\begin{aligned}\text{Result} &= \text{Indicated Reading} + \text{Correct} \\ \text{Correct} &= \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}\end{aligned}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Result} - \text{FCC Part 15C Limit}$$

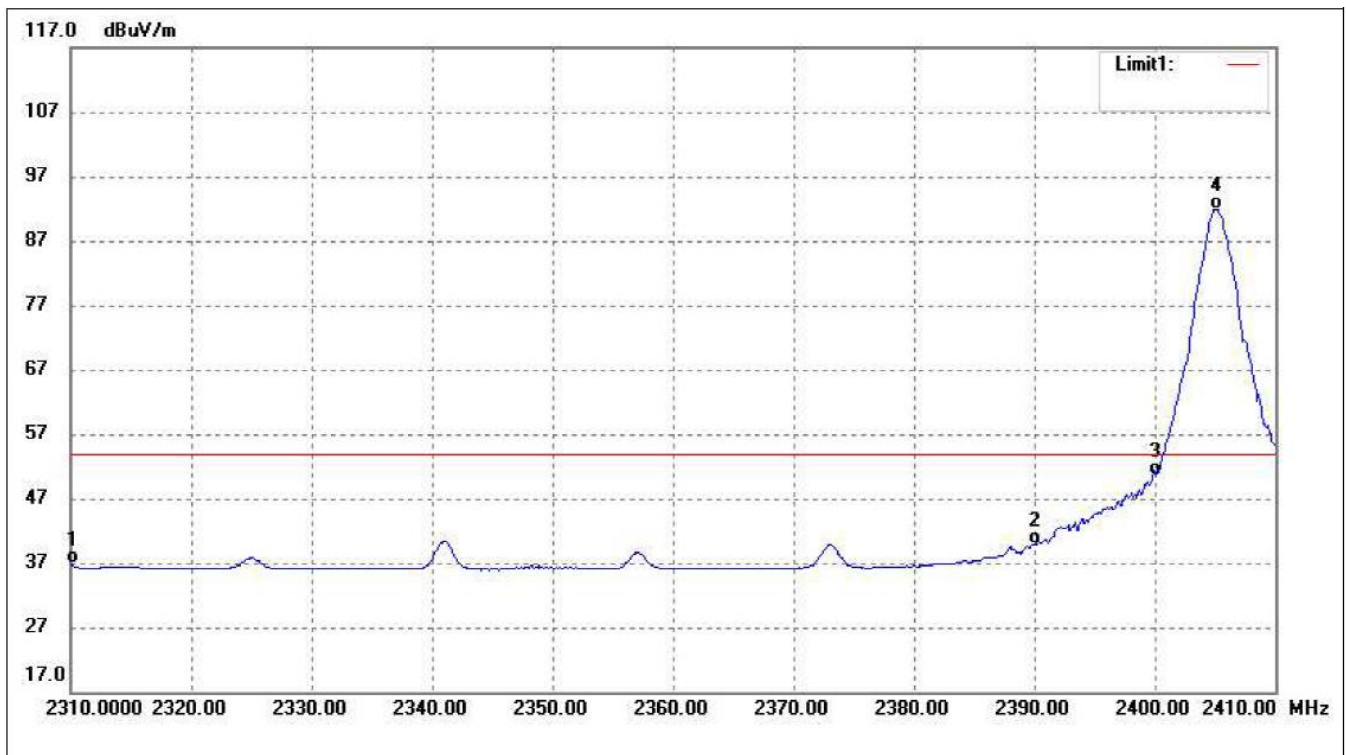
5.4 Summary of Test Results/Plots

Test mode	Frequency	Limit	Result
	MHz	dB μ V / dBc	
Lowest	2310.00	<54 dB μ V	Pass
	2390.00	<54 dB μ V	Pass
	2400.00	<54 dB μ V	Pass
Highest	2483.50	<54 dB μ V	Pass
	2500.00	<54 dB μ V	Pass

The edge emissions are below the FCC 15.209 Limits or complies with the 15.249 requirements.

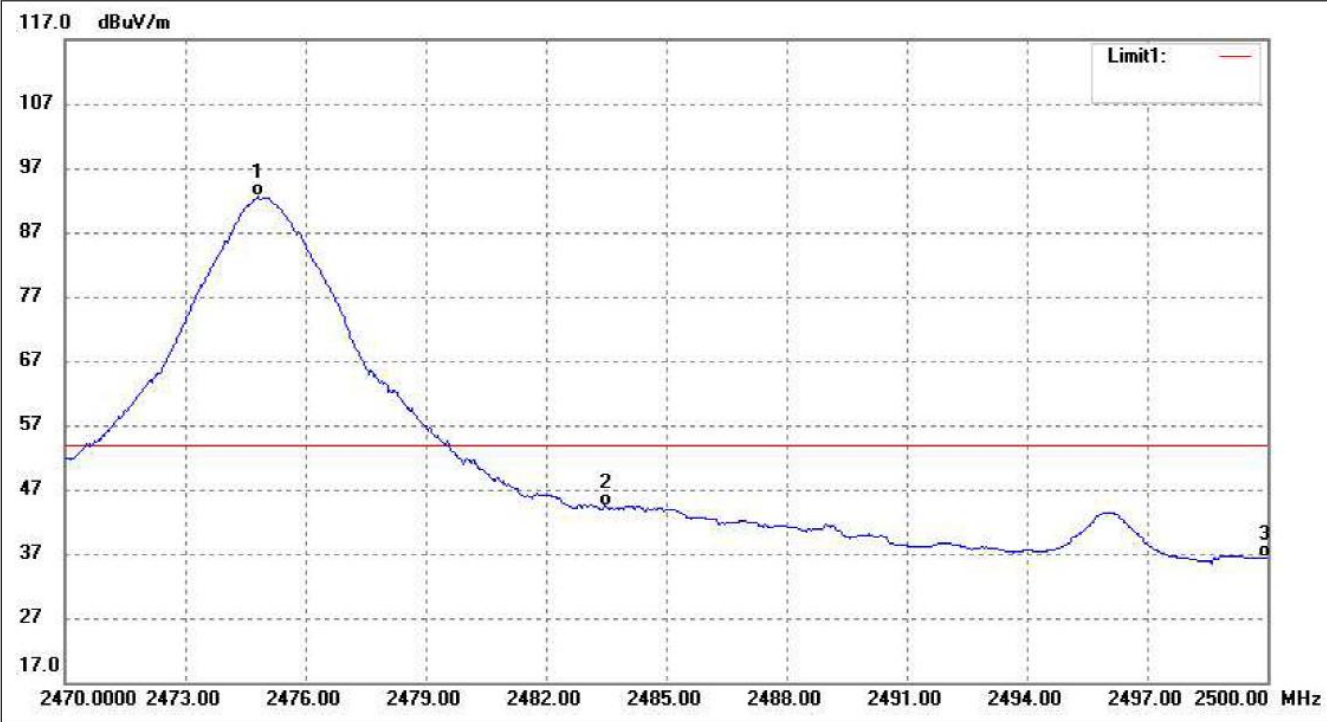
Please refer to the test plots as below.

Test Channel	Low	Polarity:	Horizontal (worst case)
--------------	-----	-----------	-------------------------



No.	Frequency (MHz)	Reading (dBuV)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	46.54	-9.66	36.88	54.00	-17.12	Ave Detector
	2310.000	57.79	-9.66	48.13	74.00	-25.87	Peak Detector
2	2390.000	49.47	-9.50	39.97	54.00	-14.03	Ave Detector
	2390.000	60.35	-9.50	50.85	74.00	-23.15	Peak Detector
3	2400.000	60.10	-9.48	50.62	54.00	-3.38	Ave Detector
	2400.000	77.63	-9.48	68.15	74.00	-5.85	Peak Detector
4	2405.100	101.42	-9.48	91.94	/	/	Ave Detector
	2405.500	115.85	-9.48	106.37	/	/	Peak Detector

Test Channel	High	Polarity:	Horizontal (worst case)
--------------	------	-----------	-------------------------



No.	Frequency (MHz)	Reading (dBuV)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2474.830	101.93	-9.34	92.59	/	/	Ave Detector
	2475.430	114.57	-9.33	105.24	/	/	Peak Detector
2	2483.500	53.59	-9.31	44.28	54.00	-9.72	Ave Detector
	2483.500	69.39	-9.31	60.08	74.00	-13.92	Peak Detector
3	2500.000	45.66	-9.28	36.38	54.00	-17.62	Ave Detector
	2500.000	57.92	-9.28	48.64	74.00	-25.36	Peak Detector

6. Emission Bandwidth

6.1 Standard Applicable

According to 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

6.2 Test Procedure

According to the ANSI 63.10-2013, the emission bandwidth test method as follows.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Set span = 5MHz, centered on a transmitting channel

RBW $\geq$ 1% 20dB Bandwidth, VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.

6.3 Summary of Test Results/Plots

Test Channel	20dB Bandwidth(MHz)
Low Channel	2.497
Middle Channel	2.558
High Channel	2.500

Please refer to the following test plots:

Low Channel	Agilent R T Ch Freq 2.405 GHz Trig Free Occupied Bandwidth x dB -20.00 dB Ref 10 dBm Atten 20 dB #Peak Log 10 dB/ Offset 1 dB Center 2.405 GHz Span 5 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 10 ms (1001 pts) Occupied Bandwidth 2.2548 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -4.070 kHz x dB Bandwidth 2.497 MHz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
Middle Channel	Agilent R T Ch Freq 2.451 GHz Trig Free Occupied Bandwidth Center 2.451000000 GHz Ref 10 dBm Atten 20 dB #Peak Log 10 dB/ Offset 1 dB Center 2.451 GHz Span 5 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 10 ms (1001 pts) Occupied Bandwidth 2.2812 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -12.327 kHz x dB Bandwidth 2.558 MHz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
High Channel	Agilent R T Ch Freq 2.475 GHz Trig Free Occupied Bandwidth Center 2.475000000 GHz Ref 10 dBm Atten 20 dB #Peak Log 10 dB/ Offset 1 dB Center 2.475 GHz Span 5 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 10 ms (1001 pts) Occupied Bandwidth 2.2695 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -16.612 kHz x dB Bandwidth 2.500 MHz Freq/Channel Center Freq 2.47500000 GHz Start Freq 2.47250000 GHz Stop Freq 2.47750000 GHz CF Step 500.000000 kHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin

7. Conducted Emissions

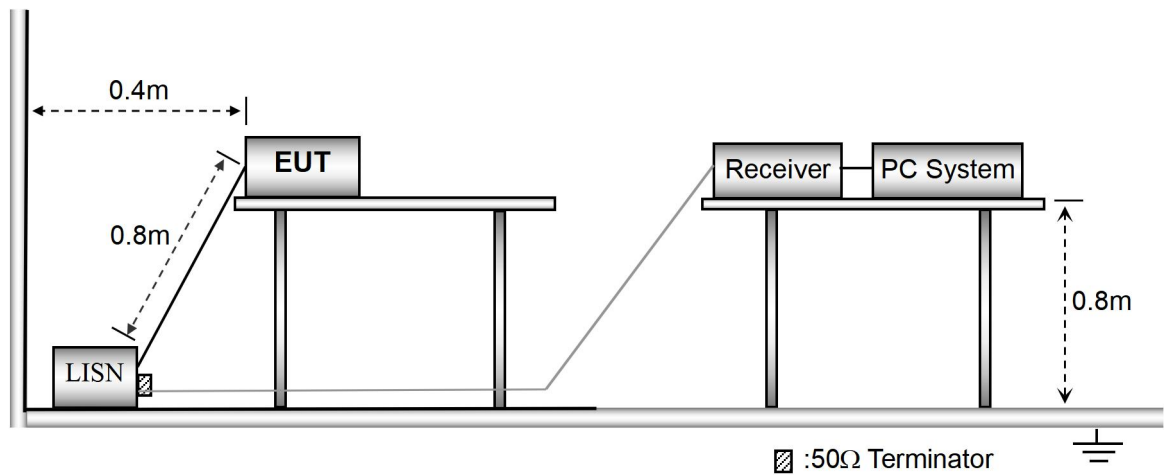
7.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

7.2 Basic Test Setup Block Diagram



7.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency.....	150kHz
Stop Frequency.....	30MHz
Sweep Speed.....	Auto
IF Bandwidth.....	10kHz
Quasi-Peak Adapter Bandwidth.....	9kHz
Quasi-Peak Adapter Mode.....	Normal

7.4 Summary of Test Results/Plots

Note: The EUT is DC supply, so this item is not applicable.

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

******* END OF REPORT *******