TEST REPORT

Applicant:	Shantou YouBang Toy Factory
Address of Applicant:	Huize Industrial Zone, Lianxia Town, Chenghai District, Shantou City, Guangdong Province, China
Manufacturer:	Shantou YouBang Toy Factory
Address of Manufacturer:	Huize Industrial Zone, Lianxia Town, Chenghai District, Shantou City, Guangdong Province, China

Equipment Under Test (EUT)

Product Name:	2.4 G remote control car
Model No.:	MT1261, 0088-TS, 0088-TSW, 0088-TP, 0088-TPW
FCC ID:	2AZVO-0088MT1261
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249
Date of sample receipt:	May 17, 2021
Date of Test:	May 18-20, 2021
Date of report issued:	May 21, 2021
Test Result :	PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Luo
Laboratory Manager

This 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.

2 Version

Version No.	Date	Description
00	*May 21, 2021*	*Original*

Prepared By: ***Date:*** *May 21, 2021*

Project Engineer

Check By: ***Date:*** *May 21, 2021*

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Remarks:

1. *Test according to ANSI C63.10: 2013.*
2. *Pass: The EUT complies with the essential requirements in the standard.*

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.			

5 General Information

5.1 General Description of EUT

Product Name:	2.4 G remote control car
Model No.:	MT1261, 0088-TS, 0088-TSW, 0088-TP, 0088-TPW
Test Model No.:	MT1261
Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are appearance color and model name for commercial purpose.	
Serial No.:	N/A
Hardware Version:	N/A
Software Version:	N/A
Test sample(s) ID:	GTSL202105000114-1
Sample(s) Status	Engineered sample
Operation Frequency:	2410MHz, 2445MHz, 2475MHz
Channel numbers:	3
Modulation type:	GFSK
Antenna Type:	Wire antenna
Antenna gain:	0dBi
Power supply:	DC 3V (2 x 1.5V“AA”Size battery)

Channel	Frequency
The lowest channel	2410MHz
The middle channel	2445MHz
The Highest channel	2475MHz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: New battery is used during all test.	

Per-test mode.
We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. Only worse case is reported.

5.3 Description of Support Units

None.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 381383.

● **IC —Registration No.: 9079A**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A

● **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123- 128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.8 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	Default

6 Test Instruments list

Radiated Emission:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 02 2020	July. 01 2025
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 18 2020	Oct. 17 2021
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 18 2020	Oct. 17 2021
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 18 2020	Oct. 17 2021
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021

RF Conducted Test:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 25 2020	June. 24 2021
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021

General used equipment:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021

7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. **15.247(c) (1)(i) requirement:** (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
The antenna is wire Antenna, the best case gain of the are antennas 0dBi, reference to the appendix II for details	

7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209
Test Method:	ANSI C63.10:2013
Test Frequency Range:	9kHz to 25GHz
Test site:	Measurement Distance: 3m

Receiver setup:

Frequency	Detector	RBW	VBW	Remark
9kHz-150kHz	Quasi-peak	200Hz	300Hz	Quasi-peak Value
150kHz-30MHz	Quasi-peak	9kHz	10kHz	Quasi-peak Value
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value
	Peak	1MHz	10Hz	Average Value

Limit: (Field strength of the fundamental signal)

Frequency	Limit (dBuV/m @3m)	Remark
2400MHz-2483.5MHz	94.00	Average Value
	114.00	Peak Value

Limit: (Spurious Emissions)

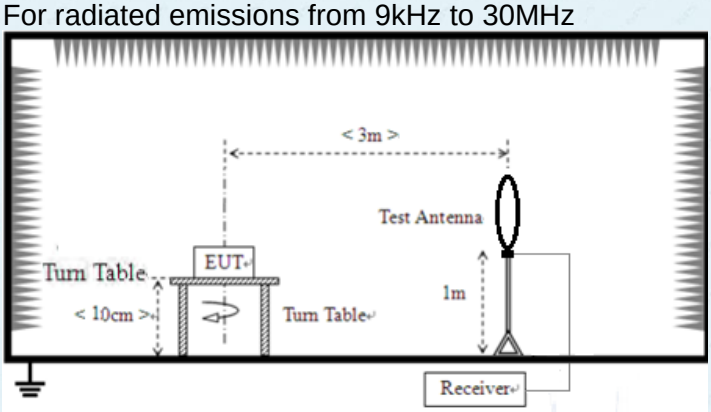
Frequency	Limit (uV/m)	Remark
0.009MHz-0.490MHz	2400/F(kHz) @300m	Quasi-peak Value
0.490MHz-1.705MHz	24000/F(kHz) @30m	Quasi-peak Value
1.705MHz-30.0MHz	30 @30m	Quasi-peak Value
30MHz-88MHz	100 @3m	Quasi-peak Value
88MHz-216MHz	150 @3m	Quasi-peak Value
216MHz-960MHz	200 @3m	Quasi-peak Value
960MHz-1GHz	500 @3m	Quasi-peak Value
Above 1GHz	500 @3m	Average Value
	5000 @3m	Peak Value

Limit: (band edge)

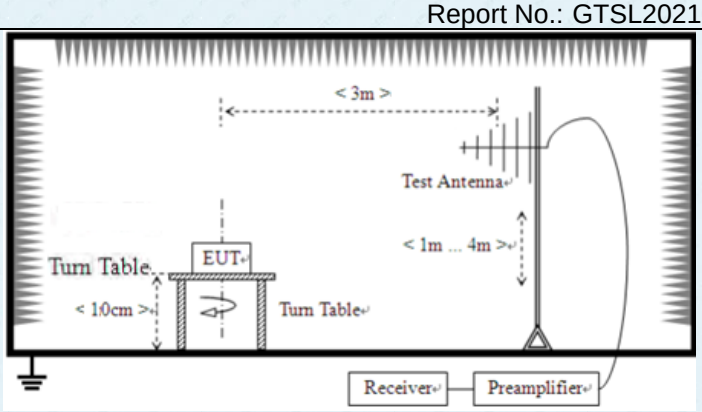
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Test setup:

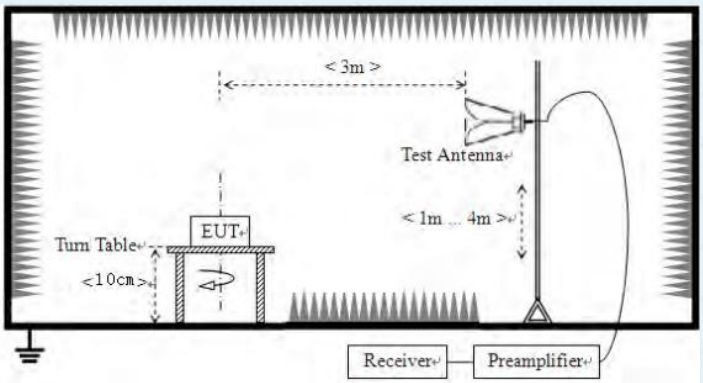
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1012mbar
Test voltage:	AC 120V, 60Hz
Test results:	Pass

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

Measurement data:

7.2.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2410.00	87.63	27.07	2.93	36.87	80.76	114.00	-33.24	Horizontal
2410.00	84.33	27.07	2.93	36.87	77.46	114.00	-36.54	Vertical
2445.00	88.86	27.15	2.96	36.89	82.08	114.00	-31.92	Horizontal
2445.00	84.07	27.15	2.96	36.89	77.29	114.00	-36.71	Vertical
2475.00	89.04	27.23	2.99	36.92	82.34	114.00	-31.66	Horizontal
2475.00	87.13	27.23	2.99	36.92	80.43	114.00	-33.57	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2410.00	79.01	27.07	2.93	36.87	72.14	94.00	-21.86	Horizontal
2410.00	71.49	27.07	2.93	36.87	64.62	94.00	-29.38	Vertical
2445.00	77.12	27.15	2.96	36.89	70.34	94.00	-23.66	Horizontal
2445.00	71.07	27.15	2.96	36.89	64.29	94.00	-29.71	Vertical
2475.00	78.64	27.23	2.99	36.92	71.94	94.00	-22.06	Horizontal
2475.00	76.08	27.23	2.99	36.92	69.38	94.00	-24.62	Vertical

Note: For fundamental frequency, RBW=3MHz,VBW=10MHz, PK detector is for PK value ,RMS detector is for AV value .

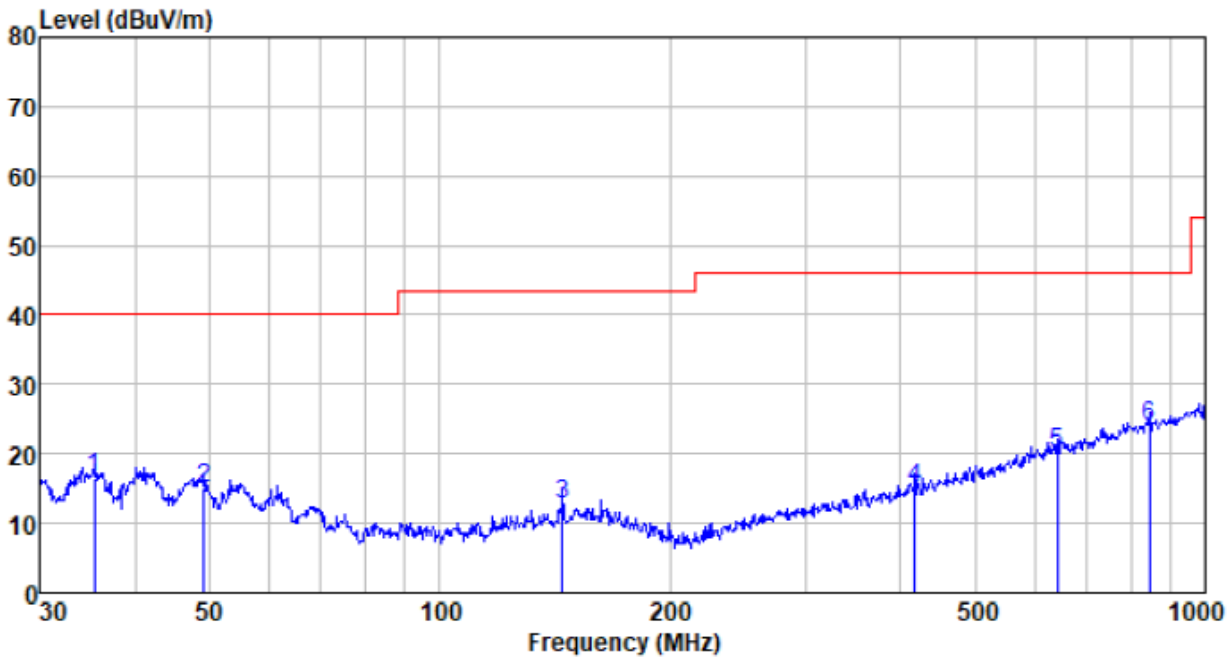
7.2.2 Spurious emissions

- **Below 30MHz**

  The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

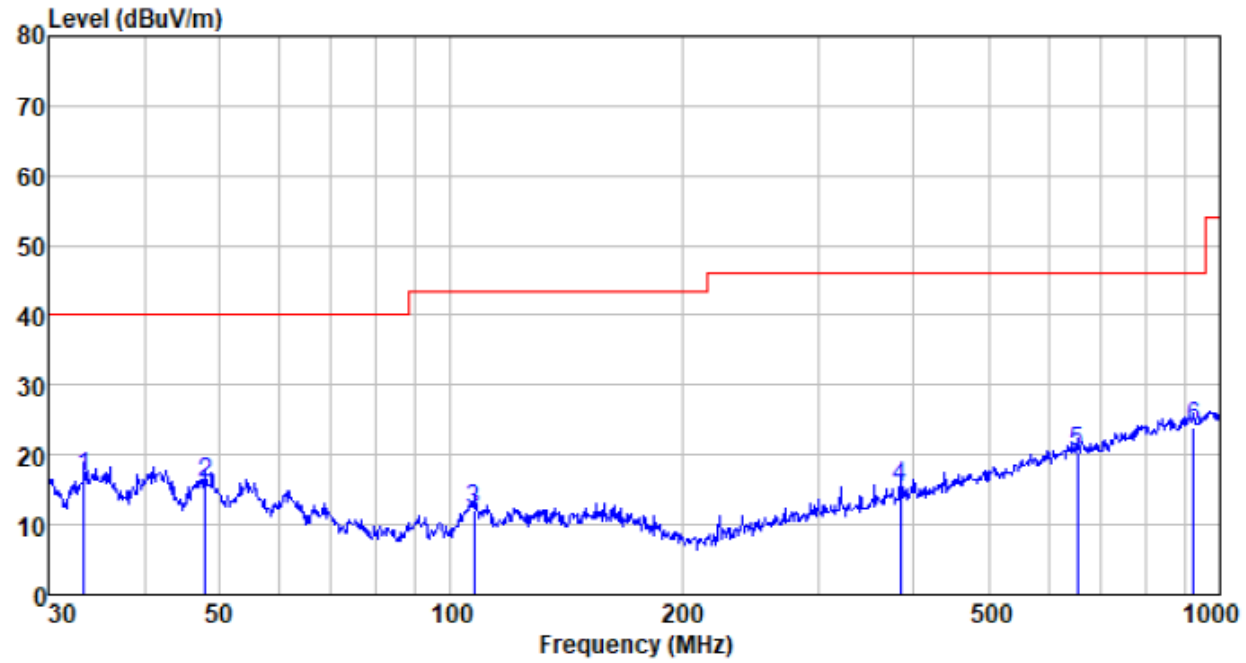
- **Below 1GHz**

Horizontal:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
35.375	38.71	12.56	0.61	35.38	16.50	40.00	-23.50	QP
49.187	37.48	13.03	0.76	36.14	15.13	40.00	-24.87	QP
144.842	35.85	12.40	1.53	37.05	12.73	43.50	-30.77	QP
417.641	34.61	15.15	2.93	37.52	15.17	46.00	-30.83	QP
640.611	34.05	19.85	3.87	37.58	20.19	46.00	-25.81	QP
845.088	34.31	22.56	4.63	37.61	23.89	46.00	-22.11	QP

Vertical:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
33.328	39.20	12.39	0.59	35.24	16.94	40.00	-23.06	QP
47.994	38.17	13.01	0.75	36.09	15.84	40.00	-24.16	QP
107.134	37.99	9.73	1.25	36.78	12.19	43.50	-31.31	QP
383.932	35.58	14.37	2.78	37.51	15.22	46.00	-30.78	QP
651.942	34.23	19.94	3.92	37.59	20.50	46.00	-25.50	QP
925.756	33.04	23.48	4.95	37.58	23.89	46.00	-22.11	QP

■ **Above 1GHz**

Test channel:	Lowest channel

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4820.00	33.11	31.9	4.63	37.73	31.91	74	-42.09	Horizontal
7230.00	34.87	35.84	6.5	35.63	41.58	74	-32.42	Horizontal
9640.00	31.13	38.26	7.98	34.95	42.42	74	-31.58	Horizontal
4820.00	31.19	31.9	4.63	37.73	29.99	74	-44.01	Vertical
7230.00	35.98	35.84	6.5	35.63	42.69	74	-31.31	Vertical
9640.00	34.99	38.26	7.98	34.95	46.28	74	-27.72	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4820.00	23.01	31.9	4.63	37.73	21.81	54	-32.19	Horizontal
7230.00	23.91	35.84	6.5	35.63	30.62	54	-23.38	Horizontal
9640.00	23.97	38.26	7.98	34.95	35.26	54	-18.74	Horizontal
4820.00	20.58	31.9	4.63	37.73	19.38	54	-34.62	Vertical
7230.00	23.82	35.84	6.5	35.63	30.53	54	-23.47	Vertical
9640.00	20.96	38.26	7.98	34.95	32.25	54	-21.75	Vertical

Test channel:	Middle

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4890.00	32.79	32.06	4.69	37.76	31.78	74	-42.22	Horizontal
7335.00	31.7	36.14	6.63	35.6	38.87	74	-35.13	Horizontal
9780.00	33.13	38.31	8.03	35.03	44.44	74	-29.56	Horizontal
4890.00	34.41	32.06	4.69	37.76	33.4	74	-40.6	Vertical
7335.00	31.92	36.14	6.63	35.6	39.09	74	-34.91	Vertical
9780.00	35.26	38.31	8.03	35.03	46.57	74	-27.43	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4890.00	22.93	32.06	4.69	37.76	21.92	54	-32.08	Horizontal
7335.00	22.03	36.14	6.63	35.6	29.2	54	-24.8	Horizontal
9780.00	22.6	38.31	8.03	35.03	33.91	54	-20.09	Horizontal
4890.00	22.11	32.06	4.69	37.76	21.1	54	-32.9	Vertical
7335.00	21.77	36.14	6.63	35.6	28.94	54	-25.06	Vertical
9780.00	21.51	38.31	8.03	35.03	32.82	54	-21.18	Vertical

Test channel:	Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4950.00	35.64	32.19	4.77	37.78	34.82	74	-39.18	Horizontal
7425.00	31.78	36.39	6.75	35.57	39.35	74	-34.65	Horizontal
9900.00	34.62	38.36	8.08	35.12	45.94	74	-28.06	Horizontal
4950.00	34.86	32.19	4.77	37.78	34.04	74	-39.96	Vertical
7425.00	35.75	36.39	6.75	35.57	43.32	74	-30.68	Vertical
9900.00	32.92	38.36	8.08	35.12	44.24	74	-29.76	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4950.00	22.08	32.19	4.77	37.78	21.26	54	-32.74	Horizontal
7425.00	22.63	36.39	6.75	35.57	30.2	54	-23.8	Horizontal
9900.00	22.04	38.36	8.08	35.12	33.36	54	-20.64	Horizontal
4950.00	23.57	32.19	4.77	37.78	22.75	54	-31.25	Vertical
7425.00	22.74	36.39	6.75	35.57	30.31	54	-23.69	Vertical
9900.00	20.97	38.36	8.08	35.12	32.29	54	-21.71	Vertical

Remarks:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

7.2.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

Test channel:	Lowest channel

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	46.12	26.81	2.81	36.79	38.95	74.00	-35.05	Horizontal
2390.00	43.68	27.01	2.91	36.85	36.75	74.00	-37.25	Horizontal
2400.00	43.14	27.04	2.91	36.86	36.23	74.00	-37.77	Horizontal
2310.00	45.04	26.81	2.81	36.79	37.87	74.00	-36.13	Vertical
2390.00	43.90	27.01	2.91	36.85	36.97	74.00	-37.03	Vertical
2400.00	47.19	27.04	2.91	36.86	40.28	74.00	-33.72	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	32.55	26.81	2.81	36.79	25.38	54.00	-28.62	Horizontal
2390.00	33.73	27.01	2.91	36.85	26.80	54.00	-27.20	Horizontal
2400.00	32.82	27.04	2.91	36.86	25.91	54.00	-28.09	Horizontal
2310.00	36.89	26.81	2.81	36.79	29.72	54.00	-24.28	Vertical
2390.00	34.21	27.01	2.91	36.85	27.28	54.00	-26.72	Vertical
2400.00	35.07	27.04	2.91	36.86	28.16	54.00	-25.84	Vertical

Test channel:	Highest channel

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	46.24	27.26	2.99	36.93	39.56	74.00	-34.44	Horizontal
2500.00	45.11	27.30	3.01	36.94	38.48	74.00	-35.52	Horizontal
2483.50	47.14	27.26	2.99	36.93	40.46	74.00	-33.54	Vertical
2500.00	47.04	27.30	3.01	36.94	40.41	74.00	-33.59	Vertical

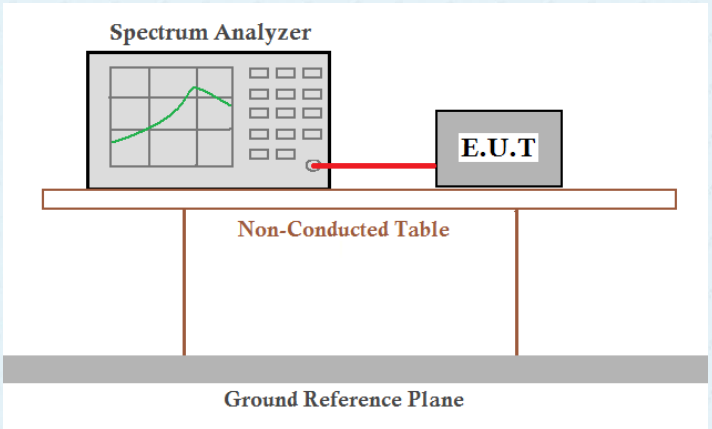
Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	33.52	27.26	2.99	36.93	26.84	54.00	-27.16	Horizontal
2500.00	31.47	27.30	3.01	36.94	24.84	54.00	-29.16	Horizontal
2483.50	31.33	27.26	2.99	36.93	24.65	54.00	-29.35	Vertical
2500.00	34.82	27.30	3.01	36.94	28.19	54.00	-25.81	Vertical

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*

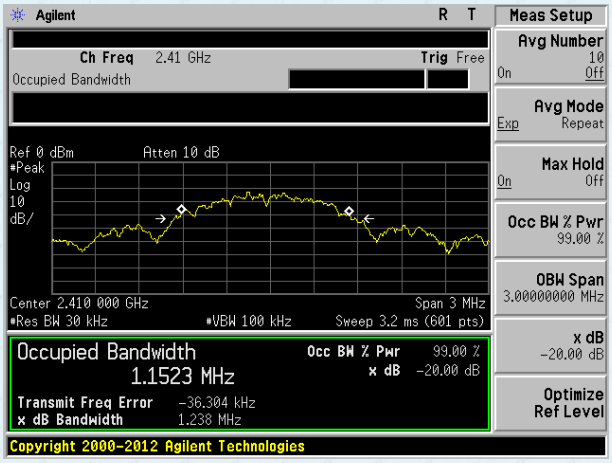
7.3 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10:2013
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

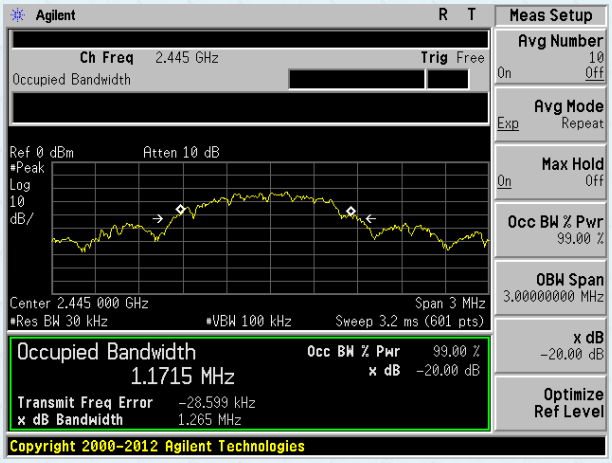
Measurement Data

Test channel	20dB bandwidth(MHz)	Result
Lowest	1.238	Pass
Middle	1.265	Pass
Highest	1.264	Pass

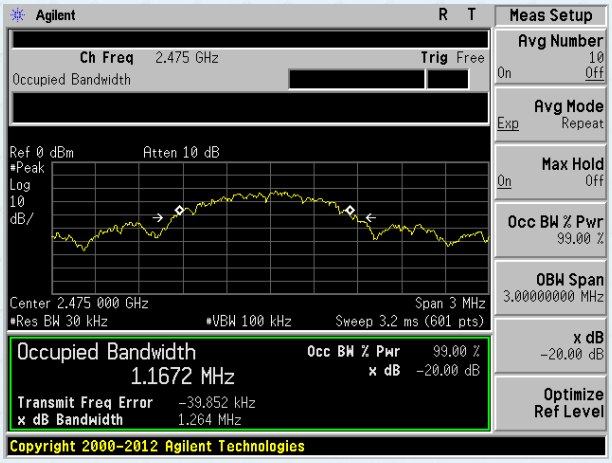
Test plot as follows:



Lowest channel



Middle channel



Highest channel

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

------End------