FCC TEST REPORT

FCC ID: 2BEH7-690-D1

Report No.	:	SSP24010022-1E
Prepared For	:	Shantou Chenghai Wanlilong Plastic Toy Factory
Product Name	:	Remote Control
Model Name	:	690-D1
FCC Rule	:	FCC Part 15.249
Date of Issue	:	2024-01-23
Prepared By	:	Shenzhen CCUT Quality Technology Co., Ltd.

Shenzhen CCUT Quality Technology Co., Ltd.
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This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

Test Report Basic Information

Applicant.....:	Shantou Chenghai Wanlilong Plastic Toy Factory
Address of Applicant.....:	Nanhuifa Industrial Zone, Lianshang Town, Chenghai District, Shantou City, China
Manufacturer.....:	Shantou Chenghai Wanlilong Plastic Toy Factory
Address of Manufacturer.....:	Nanhuifa Industrial Zone, Lianshang Town, Chenghai District, Shantou City, China
Product Name.....:	Remote Control
Brand Name.....:	-
Main Model.....:	690-D1
Series Models.....:	See section 1.1 (Page 5)
Test Standard.....:	FCC Part 15 Subpart C ANSI C63.10-2013
Date of Test .....:	2024-01-10 to 2024-01-16
Test Result.....:	PASSED
Tested Engineer .....:	Lorzix Luo (Lorzix Luo)
Project Manager.....:	Lieber Ouyang (Lieber Ouyang)
Authorized Signatory.....:	Lahm Peng (Lahm Peng)

Shenzhen CCUT Quality Technology Co., Ltd. APPROVED

Note : This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.

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Revision History

Revision	Issue Date	Description	Revised By
V1.0	2024-01-23	Initial Release	Lahm Peng

1. General Information

1.1 Product Information

Product Name:	Remote Control
Trade Name:	-
Main Model:	690-D1
Series Models:	680-A1, 680-A2, 680-A3, 680-C1, 680-C2, 680-D2, 680-D3, 690-A1, 690-A2, 690-A3, 690-B1, 690-B2, 690-B3, 690-C1, 690-C2, 690-C3, 690-D2, 691-D3, 700-A1, 700-A2, 700-A3, 700-B1, 700-C2, 700-C3, 700-D1, 700-D2, 710-A1, 710-A2, 710-A3, 720-A1, 720-B1, 720-C1, 720-D1, 730-A1, 730-B1, 730-C1, 730-D1, 750-A1, 750-B1, 750-C1, 750-D1, 760-A1, 760-B1, 760-C1
Rated Voltage:	DC 3.0V by AA*2
Hardware Version:	V1.0
Software Version:	V1.0
Note 1: The test data is gathered from a production sample, provided by the manufacturer. Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.	

Wireless Specification	
Wireless Standard:	2.4G RF
Operating Frequency:	2410 ~ 2475 MHz
Max. Field Strength:	93.24dBuV/m
Quantity of Channel:	66
Channel Separation:	1MHz
Modulation:	GFSK
Antenna Gain:	0dBi
Type of Antenna:	Integral Antenna
Type of Device:	☒ Portable Device ☐ Mobile Device ☐ Modular Device

1.2 Test Setup Information

List of Test Modes		
Test Mode	Description	Remark
TM1	Lowest Channel	2410MHz
TM2	Middle Channel	2445MHz
TM3	Highest Channel	2475MHz

List and Details of Auxiliary Cable			
Description	Length (cm)	Shielded/Unshielded	With/Without Ferrite
-	-	-	-

List and Details of Auxiliary Equipment			
Description	Manufacturer	Model	Serial Number
-	-	-	-

List of Channels							
No. of Channel	Frequency MHz	No. of Channel	Frequency MHz	No. of Channel	Frequency MHz	No. of Channel	Frequency MHz
1	2410	18	2427	35	2444	52	2461
2	2411	19	2428	36	2445	53	2462
3	2412	20	2429	37	2446	54	2463
4	2413	21	2430	38	2447	55	2464
5	2414	22	2431	39	2448	56	2465
6	2415	23	2432	40	2449	57	2466
7	2416	24	2433	41	2450	58	2467
8	2417	25	2434	42	2451	59	2468
9	2418	26	2435	43	2452	60	2469
10	2419	27	2436	44	2453	61	2470
11	2420	28	2437	45	2454	62	2471
12	2421	29	2438	46	2455	63	2472
13	2422	30	2439	47	2456	64	2473
14	2423	31	2440	48	2457	65	2474
15	2424	32	2441	49	2458	66	2475
16	2425	33	2442	50	2459		
17	2426	34	2443	51	2460		

1.3 Compliance Standards

Compliance Standards	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators
All measurements contained in this report were conducted with all above standards	
According to standards for test methodology	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators
ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained.	

1.4 Test Facilities

Laboratory Name:	**Shenzhen CCUT Quality Technology Co., Ltd.** 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
CNAS Laboratory No.:	L18863
A2LA Certificate No.:	6893.01
FCC Registration No:	583813
ISED Registration No.:	CN0164
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.	

1.5 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Conducted Emissions					
AMN	ROHDE&SCHWARZ	ENV216	101097	2023-10-21	2024-10-20
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2023-07-31	2024-07-30
Radiated Emissions					
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2023-07-31	2024-07-30
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2023-07-31	2024-07-30
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40-N	101692	2023-07-31	2024-07-30
Amplifier	SCHWARZBECK	BBV 9743B	00251	2023-07-31	2024-07-30
Amplifier	HUABO	YXL0518-2.5-45	--	2023-07-31	2024-07-30
Amplifier	COM-MW	DLAN-18G-4G-02	10229104	2023-07-31	2024-07-30
Loop Antenna	DAZE	ZN30900C	21104	2023-08-07	2024-08-06
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2023-08-07	2024-08-06
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2023-08-07	2024-08-06
Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2023-08-07	2024-08-06
Conducted RF Testing					
RF Test System	MWRFTest	MW100-RFCB	220418SQS-37	2023-07-31	2024-07-30
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2023-07-31	2024-07-30

1.6 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB
Radiated Emissions	9kHz ~ 30MHz	±2.88 dB
	30MHz ~ 1GHz	±3.32 dB
	1GHz ~ 18GHz	±3.50 dB
	18GHz ~ 40GHz	±3.66 dB
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %

2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.203	Antenna Requirement	Passed
FCC Part 15.207	Conducted Emissions	N/A
FCC Part 15.209, 15.249(a)&(d)	Radiated Emissions	Passed
FCC Part 15.249(d)	Out of Band Emissions	Passed
FCC Part 15.215(c)	Occupied Bandwidth	Passed
Passed: The EUT complies with the essential requirements in the standard Failed: The EUT does not comply with the essential requirements in the standard N/A: Not applicable		

3. Antenna Requirement

3.1 Standard and Limit

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 an integral antenna, fulfill the requirement of this section.

4. Conducted Emissions

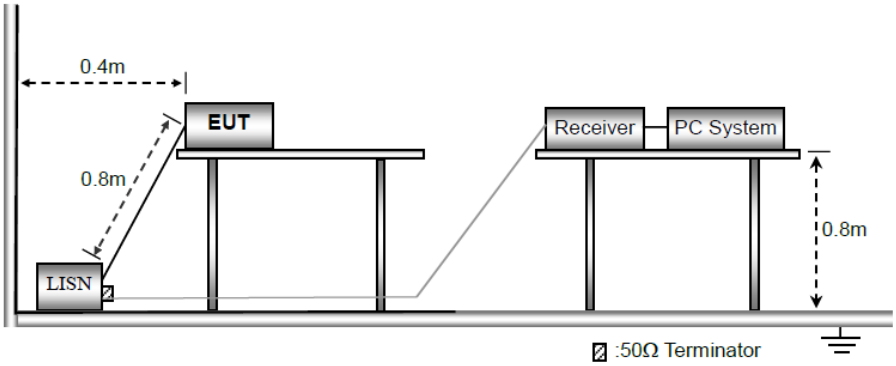
4.1 Standard and Limit

According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission (MHz)	Conducted emissions (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz Note 2: The lower limit applies at the band edges		

4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

a) The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) The following is the setting of the receiver
Attenuation: 10dB
Start Frequency: 0.15MHz
Stop Frequency: 30MHz
IF Bandwidth: 9kHz

c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

f) LISN is at least 80 cm from nearest part of EUT chassis.

g) For the actual test configuration, please refer to the related Item - photographs of the test setup.

4.3 Test Data and Results

Because the product power is supply through DC 3.0V by AA*2 battery, so not applicable.

5. Radiated Emissions

5.1 Standard and Limit

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)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

According to §15.249(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.

According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

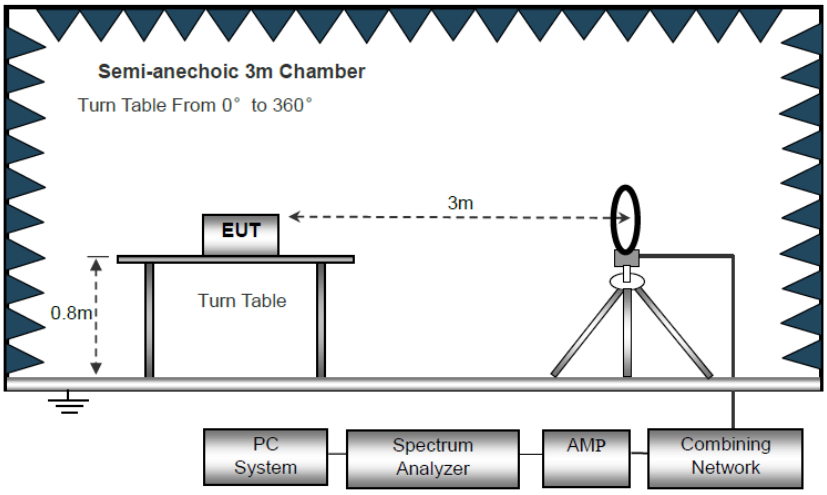
Frequency of emission (MHz)	Radiated emissions (3m)
	Quasi-peak (dBuV/m)
30-88	40
88-216	43.5
216-960	46
Above 960	54
Note: The more stringent limit applies at transition frequencies.	

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.

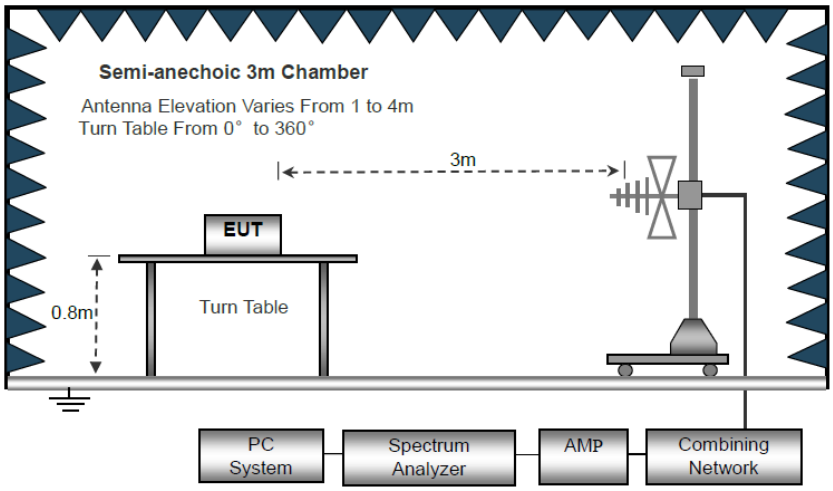
Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

5.2 Test Procedure

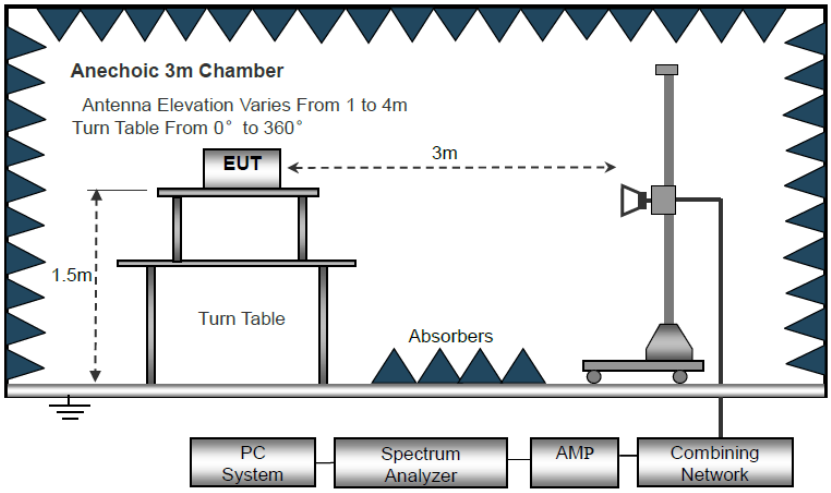
Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.



Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range blew 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.

b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.

c) Use the following spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for f ≥ 1GHz, 100 kHz for f < 1 GHz, 10kHz for f < 30MHz
VBW ≥ RBW, Sweep = auto
Detector function = peak
Trace = max hold

d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.

f) For the actual test configuration, please refer to the related item - EUT test photos.

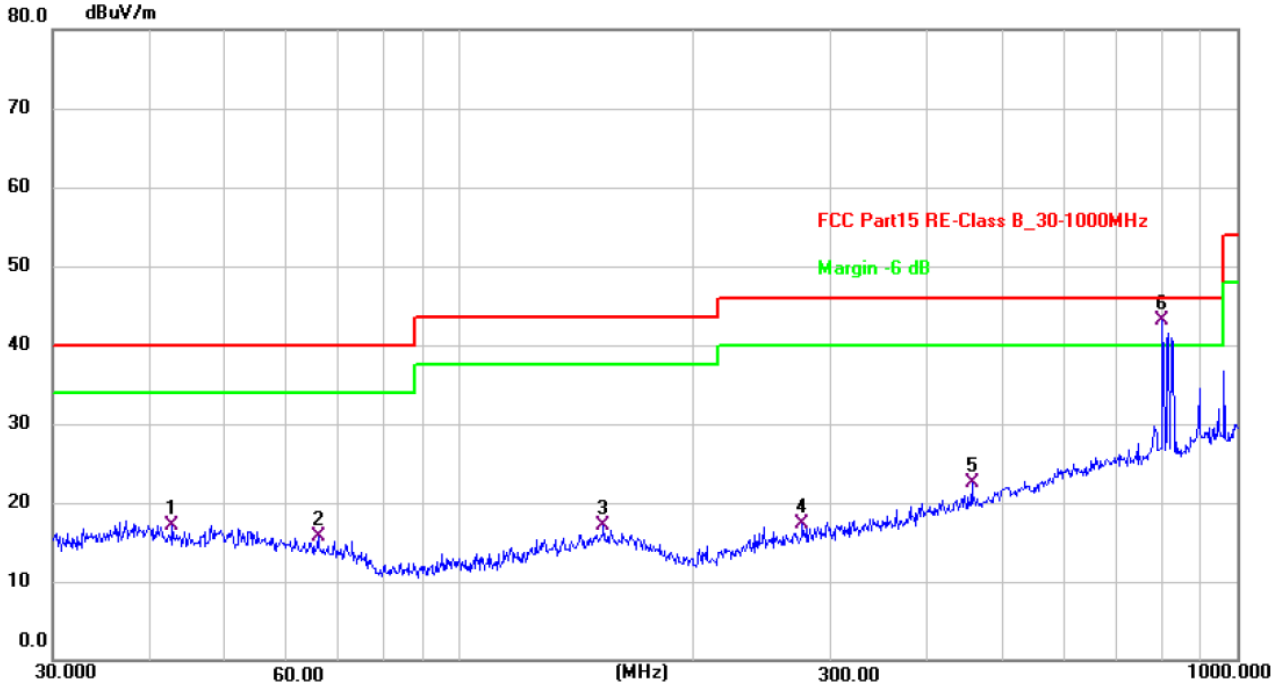
5.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.249 standard limit for a wireless device, and with the worst case as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

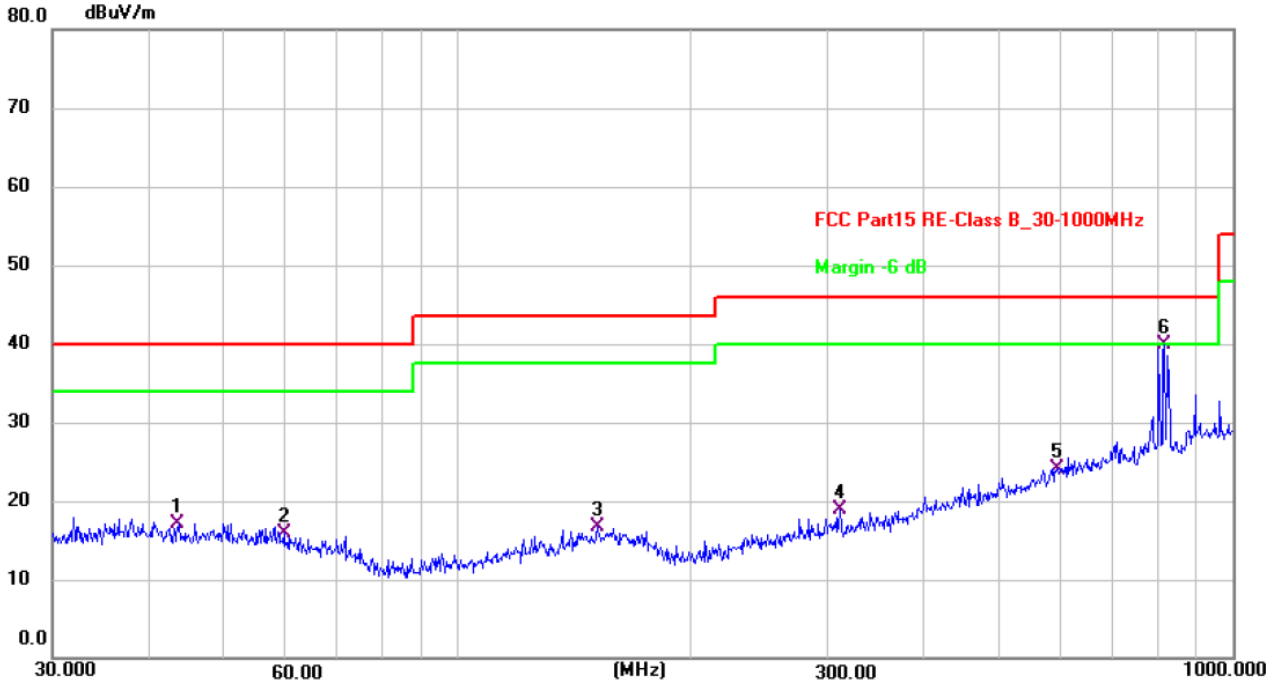
Note: For 9kHz-30MHz, the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Radiated Emission Test Data (30MHz to 1GHz)	
Tested Mode:	TM1
Test Antenna Polarization:	Horizontal
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	42.7496	25.83	-8.81	17.02	40.00	-22.98	QP	100	12	P	
2	65.8031	26.30	-10.51	15.79	40.00	-24.21	QP	100	186	P	
3	153.2004	25.85	-8.83	17.02	43.50	-26.48	QP	100	358	P	
4	276.1235	26.31	-9.00	17.31	46.00	-28.69	QP	100	331	P	
5	455.9058	27.43	-4.86	22.57	46.00	-23.43	QP	100	348	P	
6 *	801.7863	40.56	2.46	43.02	46.00	-2.98	QP	100	331	P	

Radiated Emission Test Data (30MHz to 1GHz)	
Tested Mode:	TM1
Test Antenna Polarization:	Vertical
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	43.6584	26.25	-9.05	17.20	40.00	-22.80	QP	100	348	P	
2	59.6493	25.71	-9.88	15.83	40.00	-24.17	QP	100	20	P	
3	151.5972	25.42	-8.78	16.64	43.50	-26.86	QP	100	92	P	
4	311.0867	27.07	-8.24	18.83	46.00	-27.17	QP	100	226	P	
5	593.0497	25.39	-1.26	24.13	46.00	-21.87	QP	100	348	P	
6 *	815.9678	37.60	2.30	39.90	46.00	-6.10	QP	100	215	P	

Radiated Emission Test Data (Above 1GHz)							
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
Lowest Channel (2410MHz)							
2410	114.11	-20.87	93.24	114	-20.76	H	PK
2410	72.21	-20.87	51.34	94	-42.66	H	AV
4820	77.44	-14.72	62.72	74	-11.28	H	PK
4820	61.89	-14.72	47.17	54	-6.83	H	AV
7230	62.66	-8.41	54.25	74	-19.75	H	PK
7230	45.96	-8.41	37.55	54	-16.45	H	AV
2410	109.02	-20.87	88.15	114	-25.85	V	PK
2410	66.99	-20.87	46.12	94	-47.88	V	AV
4820	78.02	-14.72	63.3	74	-10.7	V	PK
4820	58.66	-14.72	43.94	54	-10.06	V	AV
7230	63.36	-8.41	54.95	74	-19.05	V	PK
7230	45.14	-8.41	36.73	54	-17.27	V	AV
Middle Channel (2445MHz)							
2445	114.12	-20.87	93.23	114	-20.77	H	PK
2445	72.22	-20.87	45.72	94	-42.67	H	AV
4890	78.61	-14.64	63.97	74	-10.03	H	PK
4890	59.22	-14.64	44.58	54	-9.42	H	AV
7335	64.81	-8.28	56.53	74	-17.47	H	PK
7335	46.62	-8.28	38.34	54	-15.66	H	AV
2445	114	-20.86	93.22	114	-20.74	V	PK
2445	72.20	-20.86	51.33	94	-42.63	V	AV
4890	75.21	-14.64	60.57	74	-13.43	V	PK
4890	59.61	-14.64	44.97	54	-9.03	V	AV
7335	63.64	-8.28	55.36	74	-18.64	V	PK
7335	47.94	-8.28	39.66	54	-14.34	V	AV

Radiated Emission Test Data (Above 1GHz)							
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
Highest Channel (2475MHz)							
2475	112.92	-20.55	92.37	114	-21.63	H	PK
2475	74.76	-20.55	54.21	94	-39.79	H	AV
4950	77.19	-14.53	62.66	74	-11.34	H	PK
4950	60.62	-14.53	46.09	54	-7.91	H	AV
7425	63	-8.13	54.87	74	-19.13	H	PK
7425	50.6	-8.13	42.47	54	-11.53	H	AV
2475	106.48	-20.55	85.93	114	-28.07	V	PK
2475	66.27	-20.55	45.72	94	-48.28	V	AV
4950	77.33	-14.53	62.8	74	-11.2	V	PK
4950	60.82	-14.53	46.29	54	-7.71	V	AV
7425	64.99	-8.13	56.86	74	-17.14	V	PK
7425	49.11	-8.13	40.98	54	-13.02	V	AV

Note 1: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Note 2: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

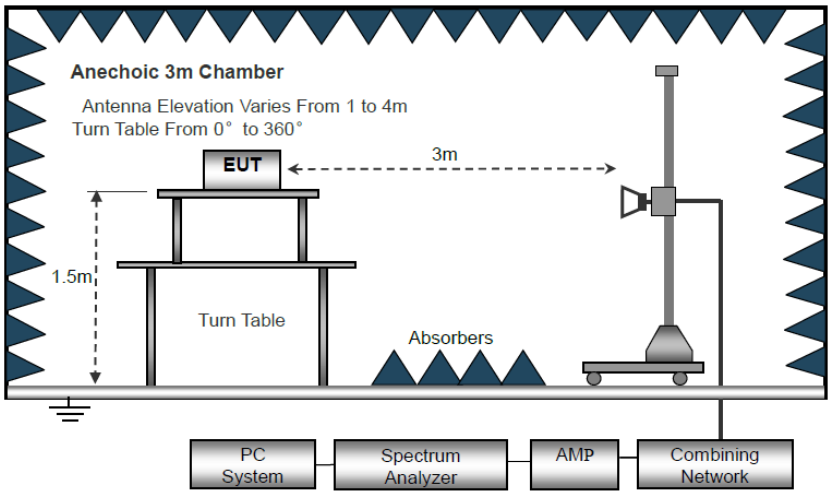
6. Out of Band Emissions

6.1 Standard and Limit

According to §15.249(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.

6.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.



Test Setup Block Diagram

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.

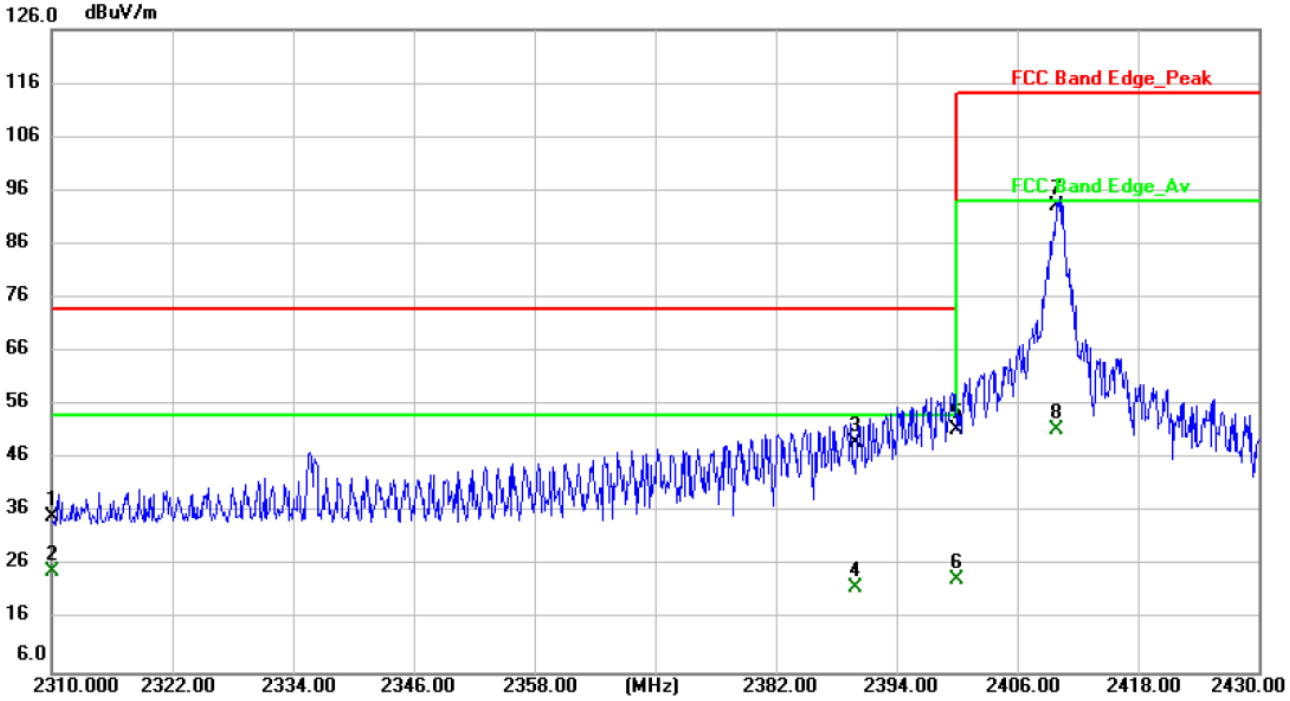
6.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.249 standard limit, and with the worst case as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

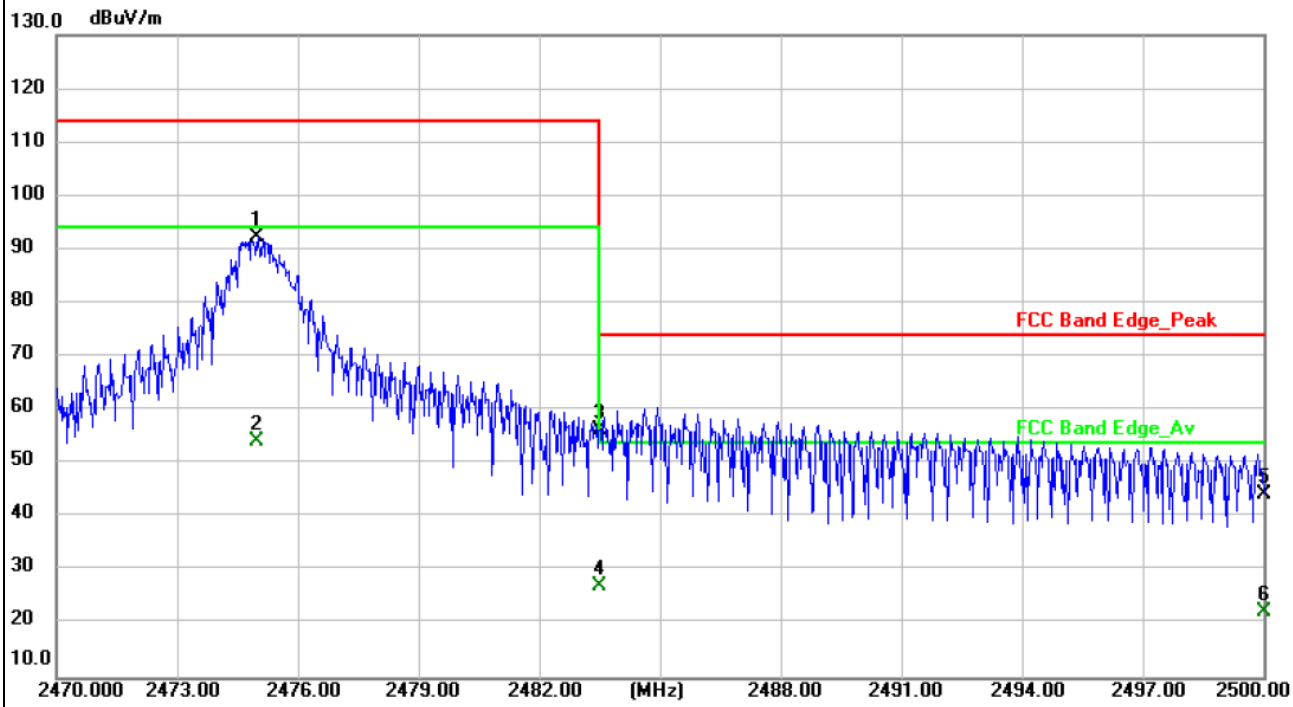
Test Mode	Frequency	Limit	Result
	MHz	dBuV/dBc	
Lowest	2310.00	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
	2400.00	>50 dBc	Pass
Highest	2483.50	<54 dBuV	Pass
	2500.00	<54 dBuV	Pass

Test Plots and Data of Out of Band Emissions	
Tested Mode:	TM1
Test Band-edge:	Lowest band-edge
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2310.000	56.68	-21.34	35.34	74.00	-38.66	peak	150	360	P	
2	2310.000	46.53	-21.34	25.19	54.00	-28.81	AVG	150	360	P	
3	2390.000	70.10	-20.96	49.14	74.00	-24.86	peak	150	19	P	
4	2390.000	43.12	-20.96	22.16	54.00	-31.84	AVG	150	19	P	
5	2400.000	72.50	-20.91	51.59	74.00	-22.41	peak	150	137	P	
6	2400.000	44.50	-20.91	23.59	54.00	-30.41	AVG	150	137	P	
7 *	2410.000	114.11	-20.87	93.24	114.00	-20.76	peak	150	324	P	
8	2410.000	72.21	-20.87	51.34	94.00	-42.66	AVG	150	324	P	

Test Plots and Data of Out of Band Emissions	
Tested Mode:	TM3
Test Band-edge:	Highest band-edge
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2475.000	112.92	-20.55	92.37	114.00	-21.63	peak	150	46	P	
2	2475.000	74.76	-20.55	54.21	94.00	-39.79	AVG	150	46	P	
3 *	2483.500	76.73	-20.51	56.22	74.00	-17.78	peak	150	175	P	
4	2483.500	47.65	-20.51	27.14	54.00	-26.86	AVG	150	175	P	
5	2500.000	64.71	-20.43	44.28	74.00	-29.72	peak	150	86	P	
6	2500.000	42.77	-20.43	22.34	54.00	-31.66	AVG	150	86	P	

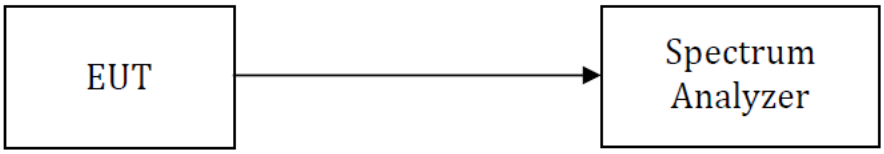
7. Occupied Bandwidth

7.1 Standard and Limit

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.

7.2 Test Procedure

According to the ANSI 63.10-2013, section 6.9, 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 = 2MHz, centered on a transmitting channel
RBW ≥1% 20dB Bandwidth, VBW ≥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.



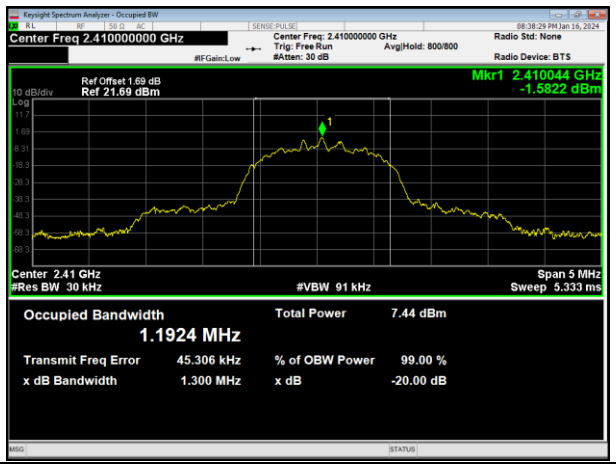
Test Setup Block Diagram

7.3 Test Data and Results

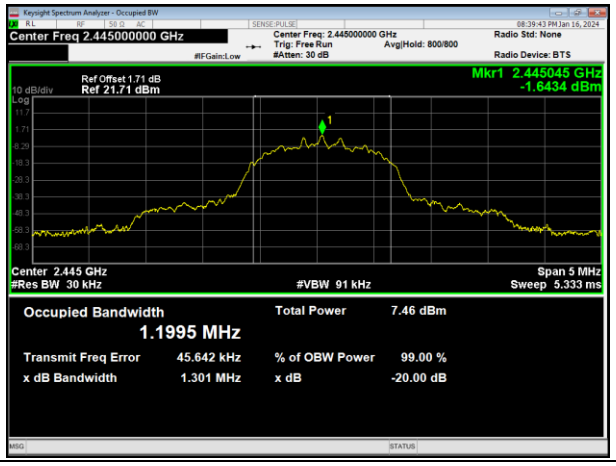
Test Channel	Test Frequency	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Lowest Channel	2410MHz	1.300	1.1924
Middle Channel	2445MHz	1.301	1.1995
Highest Channel	2475MHz	1.300	1.2147

Test Plots of Occupied Bandwidth

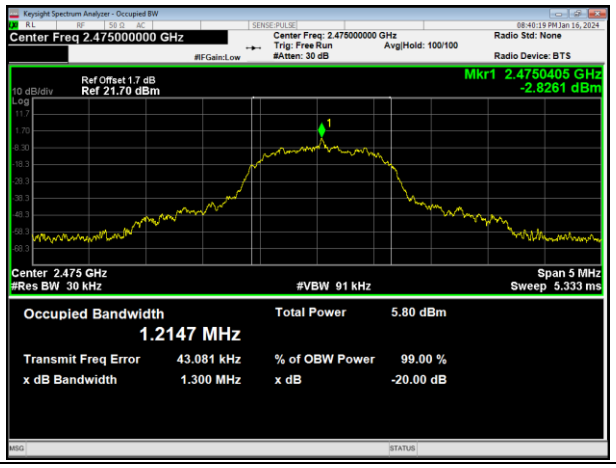
2410MHz



2445MHz



2475MHz



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