

# FCC TEST REPORT

**FCC ID: XSV-HDVRC**

**Report No.** : SSP24070058-1E

**Applicant** : CAO Group, Inc.

**Product Name** : Remote Control for Hubble Vision System

**Model Name** : 005-00109

**Test Standard** : FCC Part 15.249

**Date of Issue** : 2024-07-22

**Prepared By** : Shenzhen CCUT Quality Technology Co., Ltd.




**Shenzhen CCUT Quality Technology Co., Ltd.**

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen,  
Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

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**

<b>Applicant</b> .....:	CAO Group, Inc.	
Address of Applicant.....:	4628 West Skyhawk Drive West Jordan, United States, 84084	
<b>Manufacturer</b> .....:	CAO Group, Inc.	
Address of Manufacturer.....:	4628 West Skyhawk Drive West Jordan, United States, 84084	
<b>Product Name</b> .....:	Remote Control for Hubble Vision System	
<b>Brand Name</b> .....:	Hubble Digital Vision	
<b>Main Model</b> .....:	005-00109	
<b>Series Models</b> .....:	-	
<b>Test Standard</b> .....:	FCC Part 15 Subpart C ANSI C63.4-2014 ANSI C63.10-2013	
<b>Date of Test</b> .....	2024-07-04 to 2024-07-22	
<b>Test Result</b> .....:	PASS	
<b>Tested By</b> .....	<u>Coke Huang</u>	(Coke Huang)
<b>Reviewed By</b> .....:	<u>Lieber Ouyang</u>	(Lieber Ouyang)
<b>Authorized Signatory</b> .....:	<u>Lahm Peng</u>	(Lahm Peng)



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	2024-07-22	Initial Release	Lahm Peng

# 1. General Information

## 1.1 Product Information

Product Name:	Remote Control for Hubble Vision System
Trade Name:	Hubble Digital Vision
Main Model:	005-00109
Series Models:	-
Rated Voltage:	DC 3V by AAA battery
Power Adapter:	-
Battery:	-
Hardware Version:	V1.0
Software Version:	V1.0
Note 1: The test data is gathered from a production sample, provided by the manufacturer.	

Wireless Specification	
Wireless Standard:	2.4GHz RF
Operating Frequency:	2402MHz ~2480MHz
Max. Field Strength:	88.55dBuV/m
Quantity of Channel:	40
Channel Separation:	2MHz
Modulation:	GFSK
Antenna Gain:	0dBi
Type of Antenna:	PCB Antenna
Type of Device:	<input checked="" type="checkbox"/> Portable Device <input type="checkbox"/> Mobile Device <input type="checkbox"/> Modular Device

### 1.2 Test Setup Information

List of Test Modes			
Test Mode	Description	Remark	
TM1	Transmitting	2402/2440/2480MHz	
-	-	-	
-	-	-	
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)
01	2402	11	2422	21	2442	31	2462
02	2404	12	2424	22	2444	32	2464
03	2406	13	2426	23	2446	33	2466
04	2408	14	2428	24	2448	34	2468
05	2410	15	2430	25	2450	35	2470
06	2412	16	2432	26	2452	36	2472
07	2414	17	2434	27	2454	37	2474
08	2416	18	2436	28	2456	38	2476
09	2418	19	2438	29	2458	39	2478
10	2420	20	2440	30	2460	40	2480

### 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:	<b>Shenzhen CCUT Quality Technology Co., Ltd.</b> 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
<b>Conducted Emissions</b>					
AMN	ROHDE&SCHWARZ	ENV216	101097	2023-10-21	2024-10-20
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2023-07-31	2024-07-30
<b>Radiated Emissions</b>					
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
<b>Conducted RF Testing</b>					
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)	Band-edge 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**

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#### **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 PCB Antenna, fulfill the requirement of this section.

## 4. Conducted Emissions

### 4.1 Standard and Limit

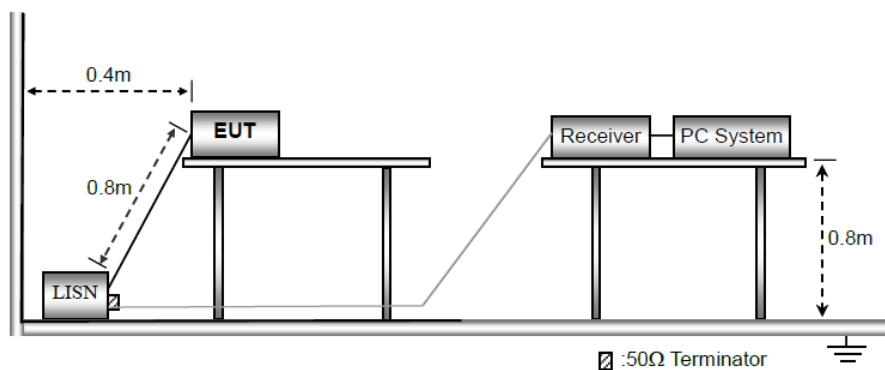
According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

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:3V AA 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

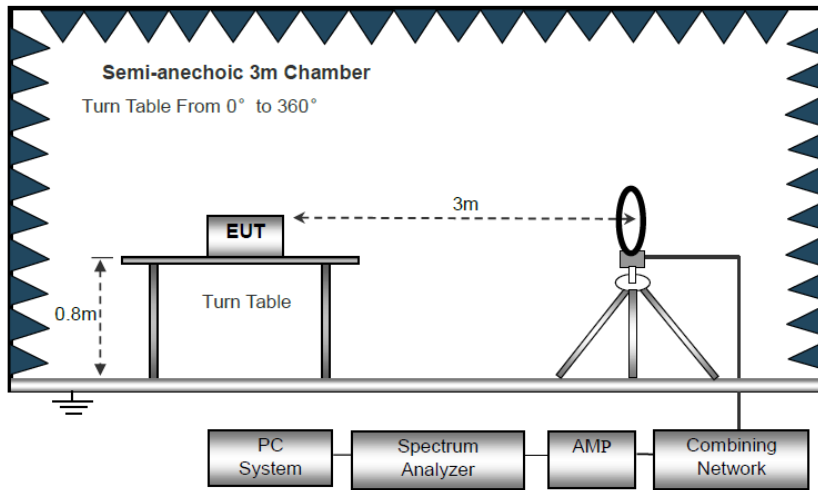
Note: The more stringent limit applies at transition frequencies.

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.

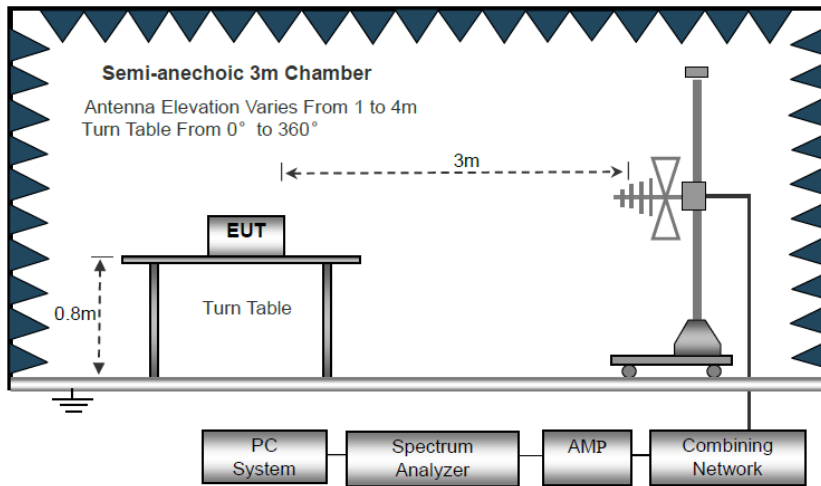
*Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.*

### 5.2 Test Procedure

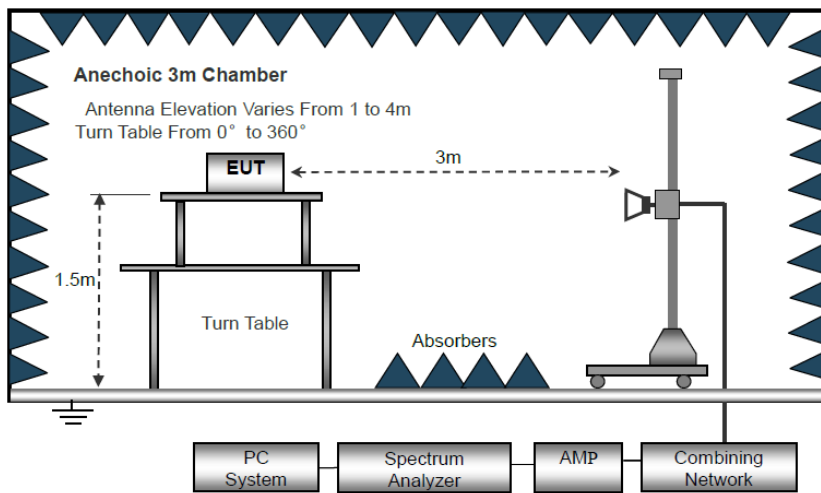
Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.



Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

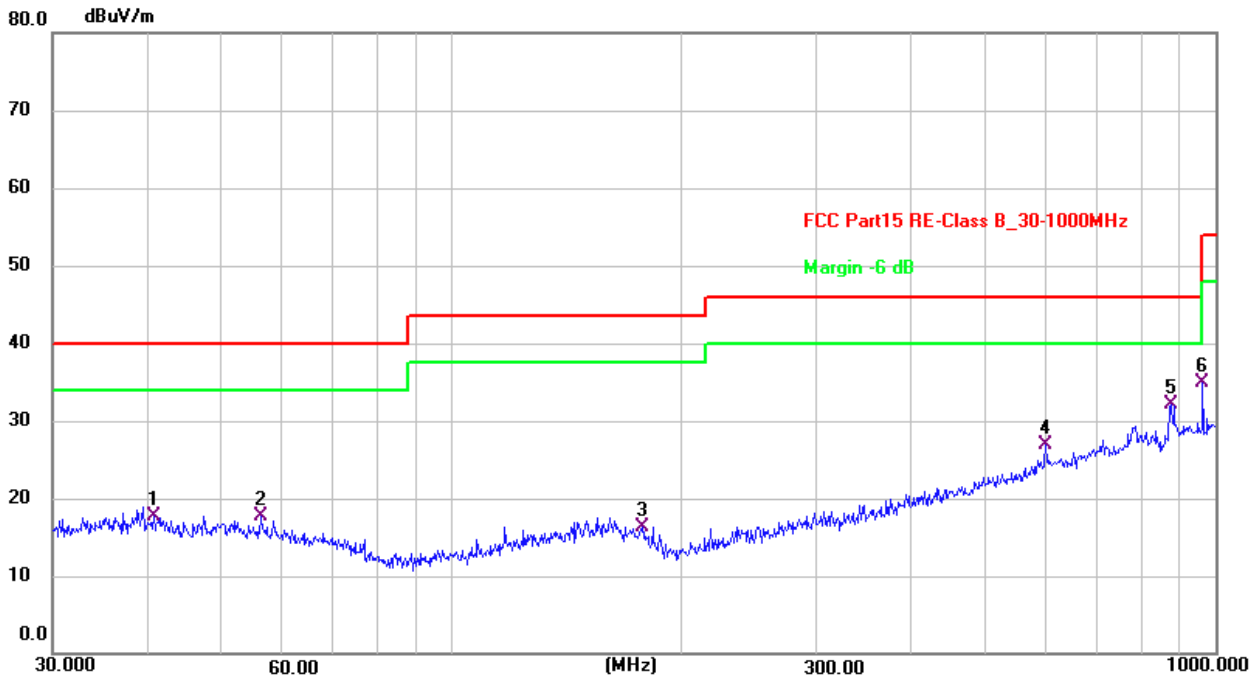
- a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range below 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.
- b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- c) Use the following spectrum analyzer settings:  
Span = wide enough to fully capture the emission being measured  
RBW = 1 MHz for  $f \geq 1\text{GHz}$ , 100 kHz for  $f < 1\text{GHz}$ , 10kHz for  $f < 30\text{MHz}$   
VBW  $\geq$  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

All of the modes have been tested, the EUT complied with the FCC Part 15.249 standard limit for a wireless device, and with the worst case 2402MHz as below:

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

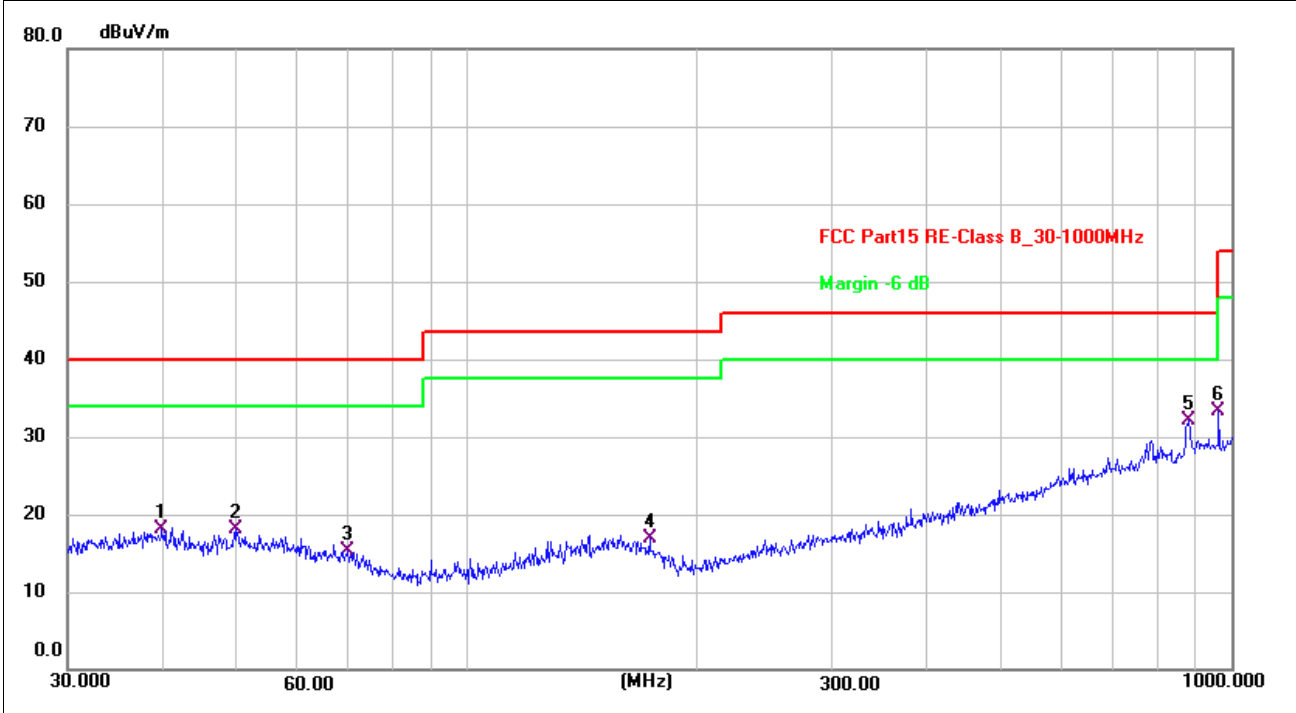
Radiated Emission Test Data (30MHz to 1GHz)	
Tested Mode:	TM1
Test Antenna Polarization:	Horizontal
Remark:	



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	40.7016	25.76	-8.14	17.62	40.00	-22.38	QP	100	186	P	
2	56.1974	27.13	-9.40	17.73	40.00	-22.27	QP	100	145	P	
3	177.5091	26.62	-10.40	16.22	43.50	-27.28	QP	100	23	P	
4	599.3212	28.03	-1.07	26.96	46.00	-19.04	QP	100	166	P	
5 *	875.2470	29.23	2.80	32.03	46.00	-13.97	QP	100	14	P	
6	962.1622	31.42	3.55	34.97	54.00	-19.03	QP	100	308	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	39.8542	26.11	-7.98	18.13	40.00	-21.87	QP	100	129	P	
2	49.7066	26.84	-8.72	18.12	40.00	-21.88	QP	100	339	P	
3	69.8450	26.19	-10.91	15.28	40.00	-24.72	QP	100	11	P	
4	173.2050	26.86	-9.95	16.91	43.50	-26.59	QP	100	118	P	
5 *	878.3214	29.24	2.92	32.16	46.00	-13.84	QP	100	223	P	
6	962.1622	29.73	3.55	33.28	54.00	-20.72	QP	100	33	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 (2402MHz)							
2402	103.2	-20.89	82.31	114	-31.69	H	PK
2402	88.92	-20.89	68.03	94	-25.97	H	AV
4804	75.59	-14.72	60.87	74	-13.13	H	PK
4804	61.46	-14.72	46.74	54	-7.26	H	AV
7206	64	-8.41	55.59	74	-18.41	H	PK
7206	46.44	-8.41	38.03	54	-15.97	H	AV
2402	109.15	-20.89	88.26	114	-25.74	V	PK
2402	97.04	-20.89	76.15	94	-17.85	V	AV
4804	76.93	-14.72	62.21	74	-11.79	V	PK
4804	60.15	-14.72	45.43	54	-8.57	V	AV
7206	62.73	-8.41	54.32	74	-19.68	V	PK
7206	49.89	-8.41	41.48	54	-12.52	V	AV
Middle Channel (2440MHz)							
2440	109.25	-20.7	88.55	114	-25.45	H	PK
2440	87.67	-20.7	66.97	94	-27.03	H	AV
4880	77.47	-14.64	62.83	74	-11.17	H	PK
4880	61.88	-14.64	47.24	54	-6.76	H	AV
7320	63.98	-8.28	55.7	74	-18.3	H	PK
7320	49.92	-8.28	41.64	54	-12.36	H	AV
2440	107.49	-20.7	86.79	114	-27.21	V	PK
2440	96.72	-20.7	76.02	94	-17.98	V	AV
4880	76.71	-14.64	62.07	74	-11.93	V	PK
4880	58.92	-14.64	44.28	54	-9.72	V	AV
7320	63.9	-8.28	55.62	74	-18.38	V	PK
7320	46.07	-8.28	37.79	54	-16.21	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 (2480MHz)							
2480	105.13	-20.55	84.58	114	-29.42	H	PK
2480	99.91	-20.55	79.36	94	-14.64	H	AV
4960	77.65	-14.53	63.12	74	-10.88	H	PK
4960	60.63	-14.53	46.1	54	-7.9	H	AV
7440	63.69	-8.13	55.56	74	-18.44	H	PK
7440	46.09	-8.13	37.96	54	-16.04	H	AV
2480	107.94	-20.55	87.39	114	-26.61	V	PK
2480	99.12	-20.55	78.57	94	-15.43	V	AV
4960	78.9	-14.53	64.37	74	-9.63	V	PK
4960	60.04	-14.53	45.51	54	-8.49	V	AV
7440	64.84	-8.13	56.71	74	-17.29	V	PK
7440	49	-8.13	40.87	54	-13.13	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.

Note 3: Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded in report. 18GHz-26GHz not recorded for no spurious point have a margin of less than 6 dB with respect to the limits.

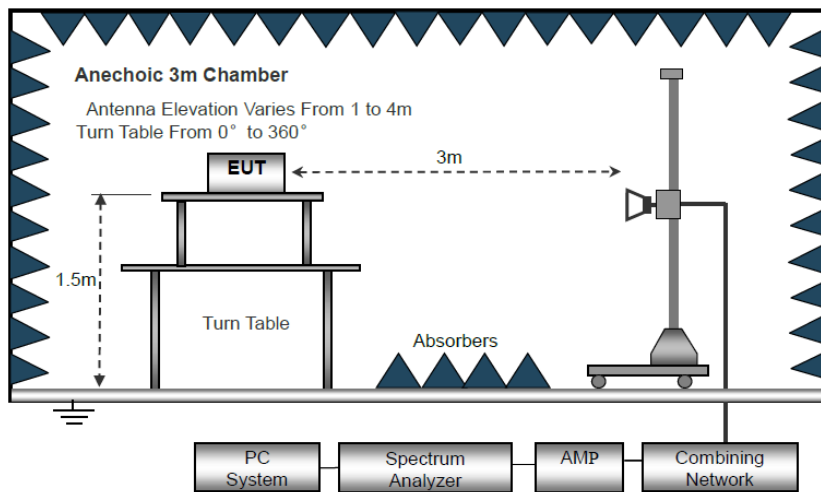
## 6. Band-edge Emissions

### 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 and section 6.10.



Test Setup Block Diagram

As the radiated emissions testing, set the Lowest and Highest Transmitting Channel, observed the outside band of 2310MHz to 2400MHz and 2483.5MHz to 2500MHz, 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:

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

Radiated Emission Test Data (Band edge emissions)							
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
Lowest Channel GFSK (2402MHz)							
2310	67.85	-21.34	46.51	74	-27.49	H	PK
2310	50.23	-21.34	28.89	54	-25.11	H	AV
2390	68.58	-20.96	47.62	74	-26.38	H	PK
2390	51.23	-20.96	30.27	54	-23.73	H	AV
2400	68.3	-20.91	47.39	74	-26.61	H	PK
2400	54.42	-20.91	33.51	54	-20.49	H	AV
2310	69.67	-21.34	48.33	74	-25.67	V	PK
2310	50.42	-21.34	29.08	54	-24.92	V	AV
2390	65.01	-20.96	44.05	74	-29.95	V	PK
2390	51.02	-20.96	30.06	54	-23.94	V	AV
2400	68.03	-20.91	47.12	74	-26.88	V	PK
2400	52.96	-20.91	32.05	54	-21.95	V	AV
Highest Channel GFSK (2480MHz)							
2483.50	68.87	-20.51	48.36	74	-25.64	H	PK
2483.50	53.45	-20.51	32.94	54	-21.06	H	AV
2500	69.11	-20.43	48.68	74	-25.32	H	PK
2500	49.06	-20.43	28.63	54	-25.37	H	AV
2483.50	71.95	-20.51	51.44	74	-22.56	V	PK
2483.50	56.17	-20.51	35.66	54	-18.34	V	AV
2500	67.07	-20.43	46.64	74	-27.36	V	PK
2500	50.24	-20.43	29.81	54	-24.19	V	AV

## 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.

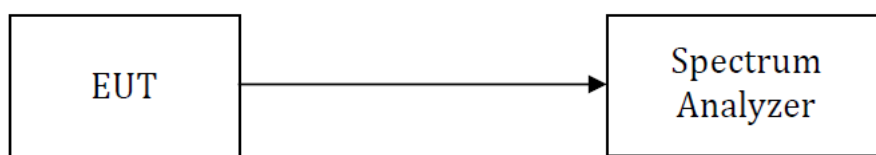
### 7.2 Test Procedure

According to the ANSI 63.10-2013, section 6.9, the emission bandwidth test method as follows.

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 20kHz, VBW = 62kHz, Sweep = Auto.
- 4) Set a reference level on the measuring instrument equal to the highest peak value.
- 5) Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.

6) Repeat the above procedures until all frequencies measured were complete.

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	2402MHz	1.157	1.022
Middle Channel	2440MHz	1.191	1.022
Highest Channel	2480MHz	1.138	1.009

Test Plots of Occupied Bandwidth

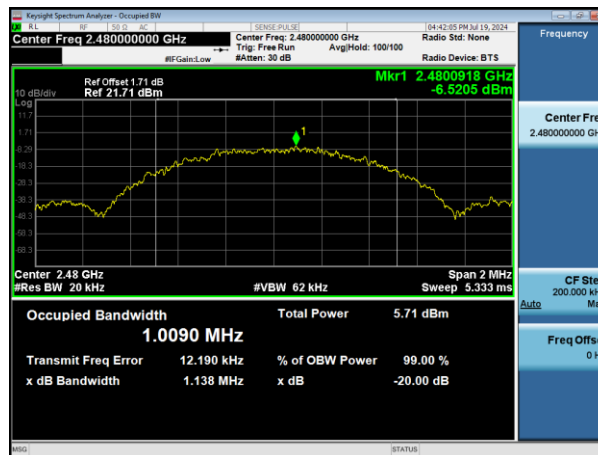
2402MHz



2440MHz



2480MHz



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