



HUAK TESTING

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Report No.: HK2507163871-E

FCC Test Report

Test Report
On Behalf of
SHENZHEN YUXI NETWORK TECHNOLOGY CO., LTD
For
Wireless Stereo Dynamic Headphones
Model No.: VJ033

FCC ID: 2BRCX-VJ033

Prepared For: SHENZHEN YUXI NETWORK TECHNOLOGY CO., LTD
1/F, NO.39, CHASHAN ROAD, FUTAI INDUSTRIAL ZONE, HENG GANG STREET
LONG GANG DISTRICT, SHENZHEN, GUANGDONG, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.
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Date of Test: Jul. 16, 2025 ~ Jul. 23, 2025
Date of Report: Jul. 23, 2025
Report Number: HK2507163871-E

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Applicant's Name

Test Result Certification

SHENZHEN YUXI NETWORK TECHNOLOGY CO., LTD

Address : 1/F, NO.39, CHASHAN ROAD, FUTAI INDUSTRIAL ZONE,
HENGGANG STREET, LONGGANG DISTRICT, SHENZHEN,
GUANGDONG, China

Manufacturer's Name

SHENZHEN YUXI NETWORK TECHNOLOGY CO., LTD

Address :

1/F, NO.39, CHASHAN ROAD, FUTAI INDUSTRIAL ZONE,
HENGGANG STREET, LONGGANG DISTRICT, SHENZHEN,
GUANGDONG, China

Product Description

Trade Mark : N/A

Product Name : Wireless Stereo Dynamic Headphones

Model and/or Type Reference...: VJ033

Standards : **47 CFR FCC Part 15 Subpart C 15.247**

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Date of Test

Date (s) of Performance of Tests : **Jul. 16, 2025 ~ Jul. 23, 2025**

Date of Issue : **Jul. 23, 2025**

Test Result : **Pass**

Testing Engineer

len liao

Len Liao

Technical Manager

Sliver Wan

Sliver Wan

Authorized Signatory

Jason Zhou

Jason Zhou

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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Jul. 23, 2025	Jason Zhou



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1. Summary

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10: 2020: American National Standard for Testing Unlicensed Wireless Devices

1.2. Test Description

FCC PART 15.247		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.215	20dB Bandwidth& 99% Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Peak Output Power	PASS
FCC Part 15.247 (a) (1)	Pseudorandom Frequency Hopping Sequence	PASS
FCC Part 15.247(a)(1)(iii)	Number of Hopping Frequency& Time of Occupancy	PASS
FCC Part 15.247(a)(1)	Frequency Separation	PASS
FCC Part 15.205/15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge Compliance of RF Emission	PASS



2. General Information

2.1. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2. General Description of EUT

Product Name:	Wireless Stereo Dynamic Headphones
Model/Type Reference:	VJ033
Series Model:	N/A
Model Difference:	N/A
Power Supply:	DC5V From Type-C or DC3.7V From Battery
Version:	Supported EDR
Modulation:	GFSK, $\pi/4$ DQPSK
Operation Frequency:	2402MHz~2480MHz
Channel Number:	79
Channel Separation:	1MHz
Antenna Type:	PCB Antenna
Antenna Gain:	-0.58dBi
Hardware Version:	V1.0
Software Version:	V1.0

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Antenna gain Refer to the antenna specifications.
3. The cable loss data is obtained from the supplier.
4. The test results in the report only apply to the tested sample.
5. This report presents data from the Right ear.



2.3. Description of Test Modes and Test Frequency

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

There are 79 channels provided to the EUT and Channel 00/39/78 was selected for testing.

Operation Frequency:

Channel	Frequency (MHz)
00	2402
01	2403
:	:
38	2440
39	2441
40	2442
:	:
77	2479
78	2480

Note: The line display in grey were the channel selected for testing

Preliminary tests were performed in each mode and packet length of BT, and found worst case as bellow, finally test were conducted at those mode and recorded in this report.

Test Items	Worst Case
AC Conducted Emissions	Charging mode
Radiated Emissions and Band Edge	DH5 low channel
Maximum Conducted Output Power	DH5/2DH5
20dB Bandwidth & 99% Bandwidth	DH5/2DH5
Frequency Separation	DH5/2DH5 Middle channel
Number of hopping frequency	DH5/2DH5
Time of Occupancy (Dwell Time)	DH1/DH3/DH5 Middle channel 2DH1/2DH3/2DH5 Middle channel
Out-of-band Emissions	DH5/2DH5

2.5. Related Submittal(s) / Grant (s)

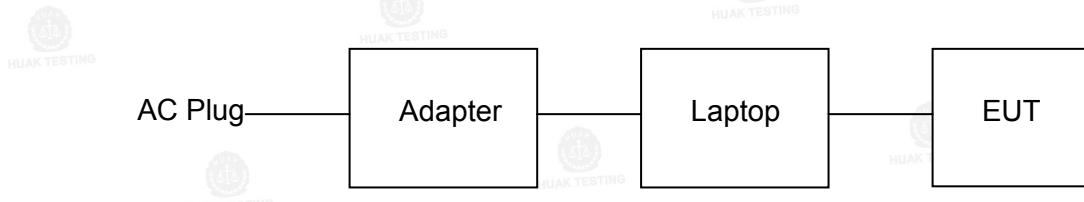
This submittal(s) (test report) is intended to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.6. Modifications

No modifications were implemented to meet testing criteria

2.7. Description of Test Setup

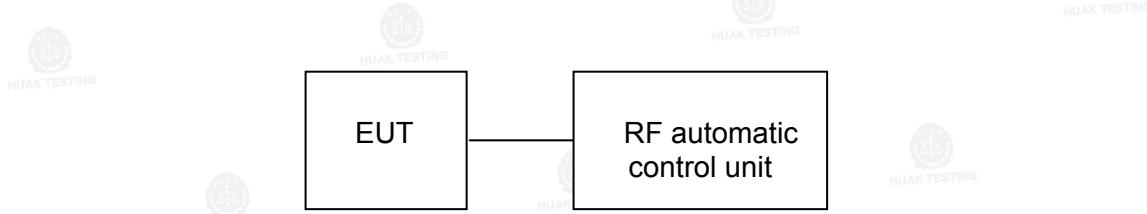
Operation of EUT during AC Conducted testing and below 1GHz Radiation testing:



Operation of EUT during above 1GHz Radiation testing:



Operation of EUT during RF Conducted testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed.

EM chamber measurements in both horizontal and vertical polarizations were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



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2.8. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
1	Wireless Stereo Dynamic Headphones	N/A	VJ033	N/A	EUT
2	USB Cable	N/A	N/A	Length: 20cm	Accessory
3	Laptop	Lenovo	TP00096A	Input: DC20V, 2.25~3.25A Output: DC5V, 0.5A	Peripheral
4	Adapter	Lenovo	ADLX65YCC3A	Input: AC100-240V, 1.8A, 50-60Hz Output: DC20V/3.25A, DC15V/3A, DC12V/3A, DC9V/2A, DC5V/2A	Peripheral

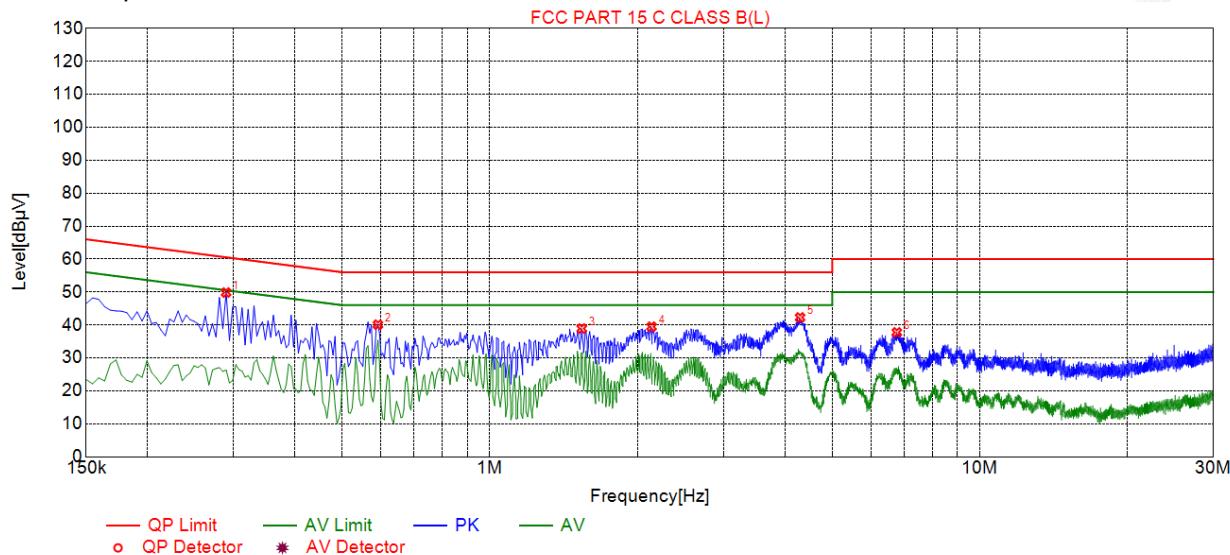
Note:-

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

Test Results

All modes have been tested, only the worst result was reported as below:

Test Specification: Line



Suspected List

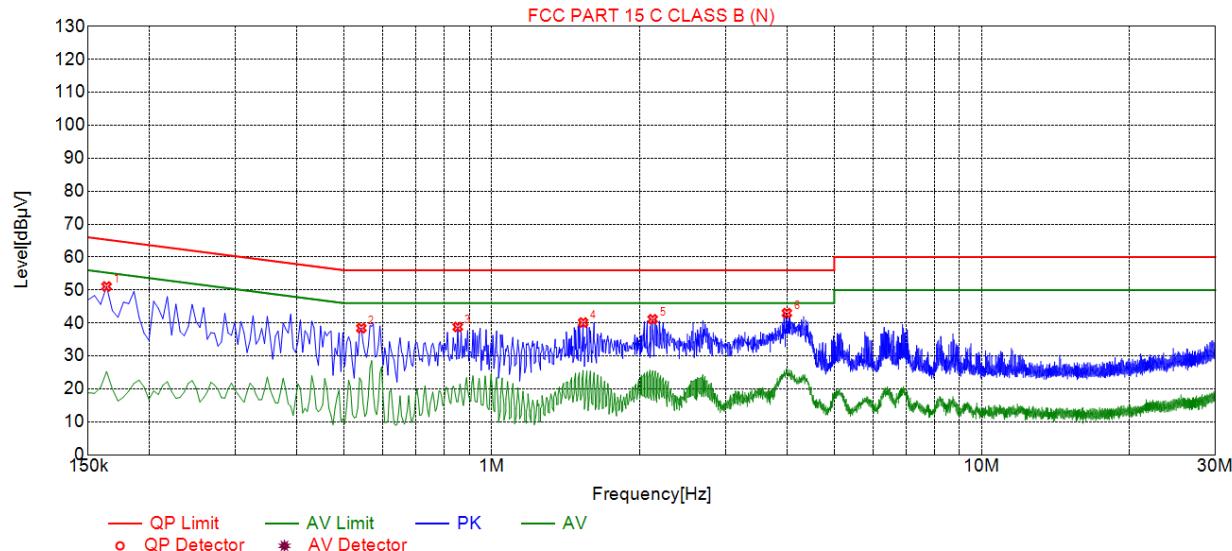
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.2895	49.85	19.83	60.54	10.69	30.02	PK	L
2	0.5910	40.09	19.76	56.00	15.91	20.33	PK	L
3	1.5405	38.92	19.97	56.00	17.08	18.95	PK	L
4	2.1390	39.49	20.16	56.00	16.51	19.33	PK	L
5	4.2990	42.28	20.36	56.00	13.72	21.92	PK	L
6	6.7740	37.76	20.40	60.00	22.24	17.36	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dB μ V]	Factor [dB]	Limit [dB μ V]	Margin [dB]	Reading [dB μ V]	Detector	Type
1	0.1635	51.08	19.58	65.28	14.20	31.50	PK	N
2	0.5415	38.42	19.75	56.00	17.58	18.67	PK	N
3	0.8520	38.78	19.76	56.00	17.22	19.02	PK	N
4	1.5360	40.15	19.86	56.00	15.85	20.29	PK	N
5	2.1300	41.14	19.96	56.00	14.86	21.18	PK	N
6	4.0020	43.01	20.15	56.00	12.99	22.86	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



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3.2. Radiated Emissions and Band Edge

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

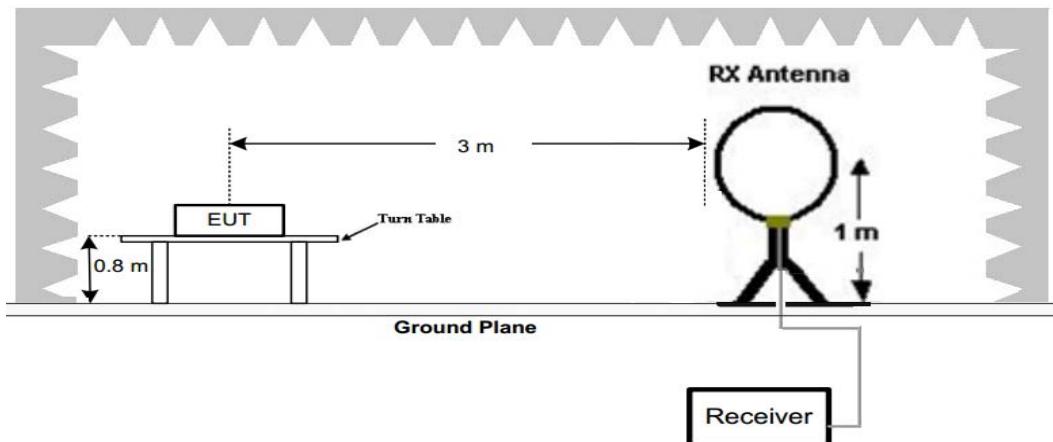
Except when the requirements applicable to a given device state otherwise, emissions from License-Exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission

Radiated Emission Limits

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

Test Configuration

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



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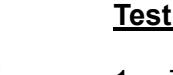
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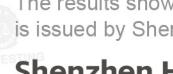
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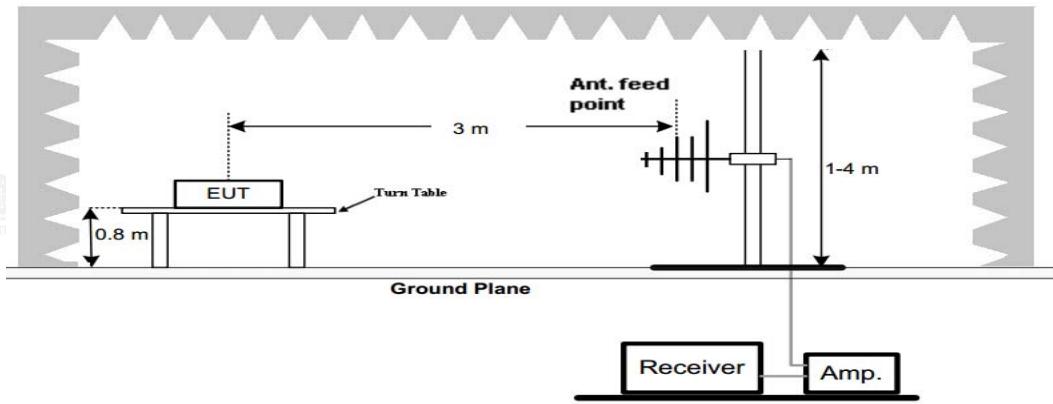
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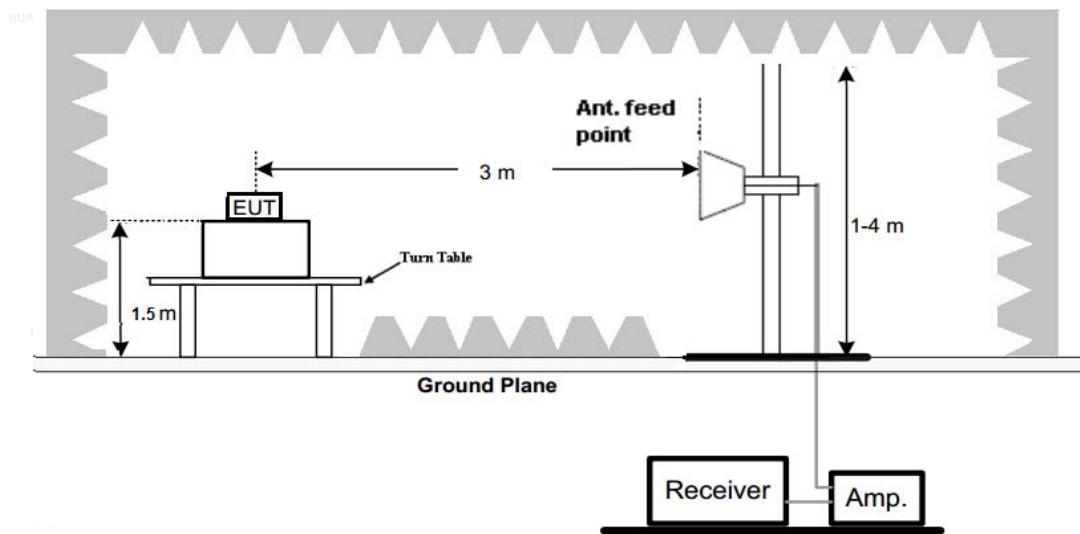
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(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

1. The EUT was placed on turn table which is 0.8m above ground plane for below 1GHz test, and on a low permittivity and low loss tangent turn table which is 1.5m above ground plane for above 1GHz test.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0 degrees to 360 degrees to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.

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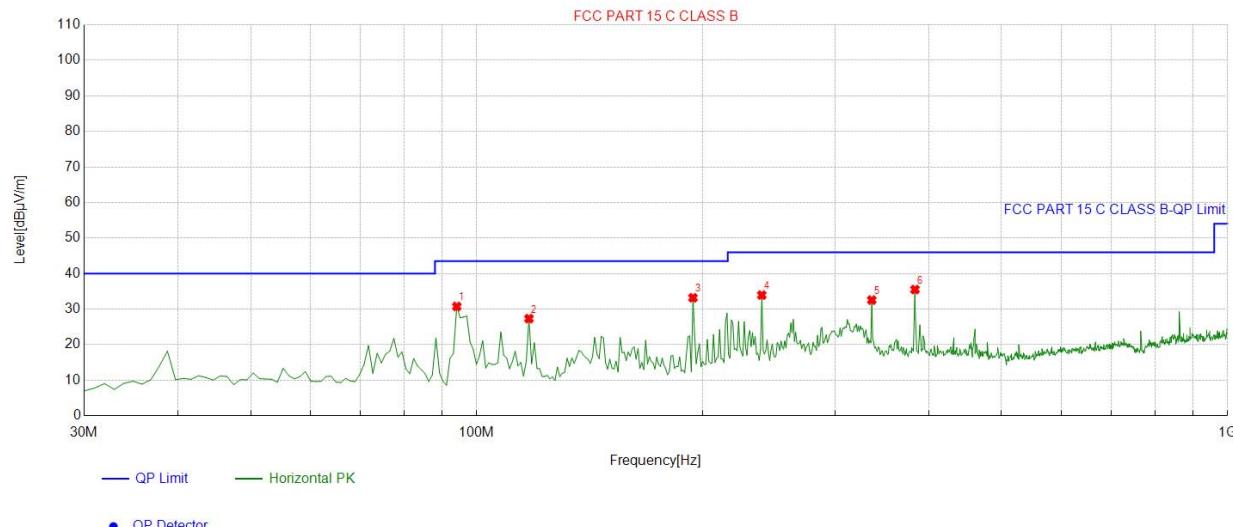
Test Results

Remark:

1. Radiated Emission measured at GFSK, $\pi/4$ DQPSK mode from 9 KHz to 10th harmonic of fundamental and recorded worst case at GFSK DH5 mode.
2. There is no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
3. For below 1GHz testing recorded worst at GFSK DH5 low channel.

Below 1GHz Test Results:

Antenna polarity: H



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	94.0841	-15.78	46.51	30.73	43.50	12.77	100	130	Horizontal
2	117.3874	-16.02	43.34	27.32	43.50	16.18	100	162	Horizontal
3	194.0941	-15.23	48.41	33.18	43.50	10.32	100	308	Horizontal
4	239.7297	-13.71	47.65	33.94	46.00	12.06	100	105	Horizontal
5	335.8559	-10.57	43.11	32.54	46.00	13.46	100	2	Horizontal
6	383.4334	-9.11	44.61	35.50	46.00	10.50	100	151	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

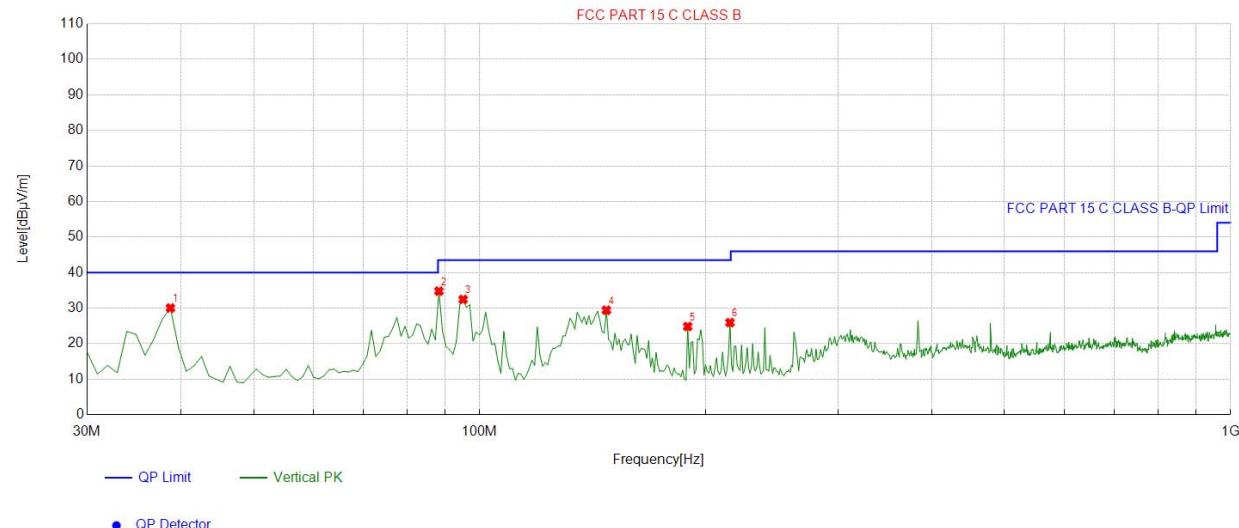
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Antenna polarity: V



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.7387	-14.30	44.32	30.02	40.00	9.98	100	187	Vertical
2	88.2583	-17.03	51.80	34.77	43.50	8.73	100	358	Vertical
3	95.0551	-15.40	47.83	32.43	43.50	11.07	100	88	Vertical
4	147.4875	-18.23	47.63	29.40	43.50	14.10	100	323	Vertical
5	189.2392	-15.52	40.33	24.81	43.50	18.69	100	38	Vertical
6	215.4555	-14.72	40.63	25.91	43.50	17.59	100	148	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
--	--	--
--	--	--
--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement



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For 1GHz to 25GHz

CH Low (2402MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4804.00	54.14	-3.65	50.49	74.00	23.51	peak
4804.00	44.38	-3.65	40.73	54.00	13.27	AVG
7206.00	55.46	-0.95	54.51	74.00	19.49	peak
7206.00	41.19	-0.95	40.24	54.00	13.76	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit - Level.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4804.00	53.65	-3.65	50.00	74.00	24.00	peak
4804.00	42.00	-3.65	38.35	54.00	15.65	AVG
7206.00	54.53	-0.95	53.58	74.00	20.42	peak
7206.00	40.09	-0.95	39.14	54.00	14.86	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit - Level



CH Middle (2441MHz)

Horizontal:

Frequency	HUAK Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4882.00	53.71	-3.54	50.17	74.00	23.83	peak
4882.00	44.18	-3.54	40.64	54.00	13.36	AVG
7323.00	53.58	-0.81	52.77	74.00	21.23	peak
7323.00	42.63	-0.81	41.82	54.00	12.18	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit - Level.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4882.00	52.88	-3.54	49.34	74.00	24.66	peak
4882.00	43.4	-3.54	39.86	54.00	14.14	AVG
7323.00	52.61	-0.81	51.80	74.00	22.20	peak
7323.00	40.67	-0.81	39.86	54.00	14.14	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit - Level.



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CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4960.00	54.89	-3.43	51.46	74.00	22.54	peak
4960.00	43.90	-3.43	40.47	54.00	13.53	AVG
7440.00	53.52	-0.77	52.75	74.00	21.25	peak
7440.00	41.68	-0.77	40.91	54.00	13.09	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit - Level

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4960.00	52.29	-3.43	48.86	74.00	25.14	peak
4960.00	45.89	-3.43	42.46	54.00	11.54	AVG
7440.00	54.27	-0.77	53.50	74.00	20.50	peak
7440.00	41.61	-0.77	40.84	54.00	13.16	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit - Level.

Remark :

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.

(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m (PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m (PK Value) <54 dBuV/m (AV Limit), the Average Detected not need to completed.

(7) All modes of operation were investigated and the worst-case emissions are reported.

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Radiated Band Edge Test:

Hopping

Horizontal (Worst case):

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2310.00	55.21	-5.81	49.4	74	24.6	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	56.23	-5.84	50.39	74	23.61	peak
2390.00	/	-5.84	/	54	/	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor;
Margin = Limit - Level.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310.00	54.11	-5.81	48.3	74	25.7	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	53.99	-5.84	48.15	74	25.85	peak
2390.00	/	-5.84	/	54	/	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit - Level.



HUAK TESTING

Horizontal (Worst case):

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2483.50	53.57	-5.81	47.76	74	26.24	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.95	-6.06	46.89	74	27.11	peak
2500.00	/	-6.06	/	54	/	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2483.50	51.81	-5.81	46	74	28	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	54.74	-6.06	48.68	74	25.32	peak
2500.00	/	-6.06	/	54	/	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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NO Hopping

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case):

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310.00	52.98	-5.81	47.17	74	26.83	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	52.42	-5.84	46.58	74	27.42	peak
2390.00	/	-5.84	/	54	/	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor;
Margin = Limit - Level.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310.00	54.81	-5.81	49	74	25	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	53.26	-5.84	47.42	74	26.58	peak
2390.00	/	-5.84	/	54	/	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor;
Margin = Limit - Level.

**HUAK TESTING**

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Horizontal (Worst case):

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	54.65	-5.81	48.84	74	25.16	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.72	-6.06	45.66	74	28.34	peak
2500.00	/	-6.06	/	54	/	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor;
Margin = Limit - Level.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	53.06	-5.81	47.25	74	26.75	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.03	-6.06	44.97	74	29.03	peak
2500.00	/	-6.06	/	54	/	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor;
Margin = Limit - Level.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Remark:

1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Procedure

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

Test Configuration



Test Results

Type	Channel	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)	Result
GFSK	00	-3.46	21.00	Pass
	39	-3.06		
	78	-4.62		
$\pi/4$ DQPSK	00	-2.90	21.00	Pass
	39	-3.31		
	78	-4.62		

Note: The test results including the cable loss.

3.4. 20dB Bandwidth

Limit

For frequency hopping systems operating in the 2400MHz-2483.5MHz no limit for 20dB bandwidth.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 KHz RBW and 100 KHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

RBW=1% to 5% of the OBW

VBW=approximately 3 X RBW

Detector=Peak

Trace Mode: Max Hold

Use the 99% power bandwidth function of the instrument to measure the Occupied Bandwidth and record.

Test Configuration



Test Results

Modulation	Channel	20dB Bandwidth (MHz)	Result
GFSK	CH00	1.254	Pass
	CH39	1.431	
	CH78	1.269	
$\pi/4$ DQPSK	CH00	1.362	Pass
	CH39	1.392	
	CH78	1.410	

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Test plot as follows:

20dB Bandwidth

GFSK Modulation



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π/4DQPSK Modulation

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3.5. Frequency Separation

Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 KHz or the $2/3 \times 20$ dB bandwidth of the hopping channel, whichever is greater.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 KHz RBW and 100 KHz VBW.

Test Configuration



Test Results

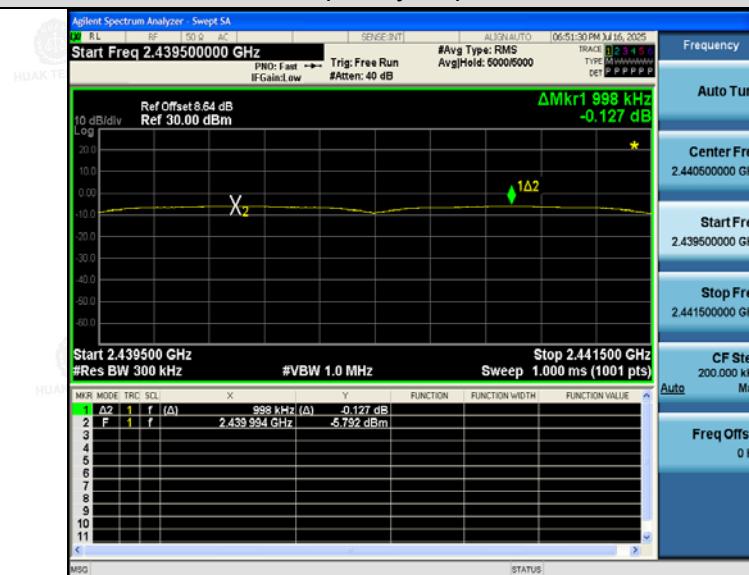
Modulation	Channel	Channel Separation (MHz)	Limit(MHz)	Result
GFSK  HUAK TESTING	CH39	 HUAK TESTING 0.998	 HUAK TESTING 0.954	Pass
	CH40			
π/4DQPSK  HUAK TESTING	CH39	 HUAK TESTING 0.998	 HUAK TESTING 0.940	Pass
	CH40			

Note: We have tested all mode at high, middle and low channel, and recorded worst case at middle

Test plot as follows:



Frequency Separation



GFSK



π/4DQPSK

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3.6. Number of Hopping Frequency

Limit

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 2400MHz to 2483.5MHz.

Test Configuration



Test Results

Modulation	Number of Hopping Channel	Limit	Result
GFSK	79	≥15	Pass
π/4DQPSK	79	≥15	Pass

Test plot as follows:

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3.7. Time of Occupancy (Dwell Time)

Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set center frequency of spectrum analyzer=operating frequency with 1MHz RBW and 3MHz VBW, Span 0Hz.

Test Configuration



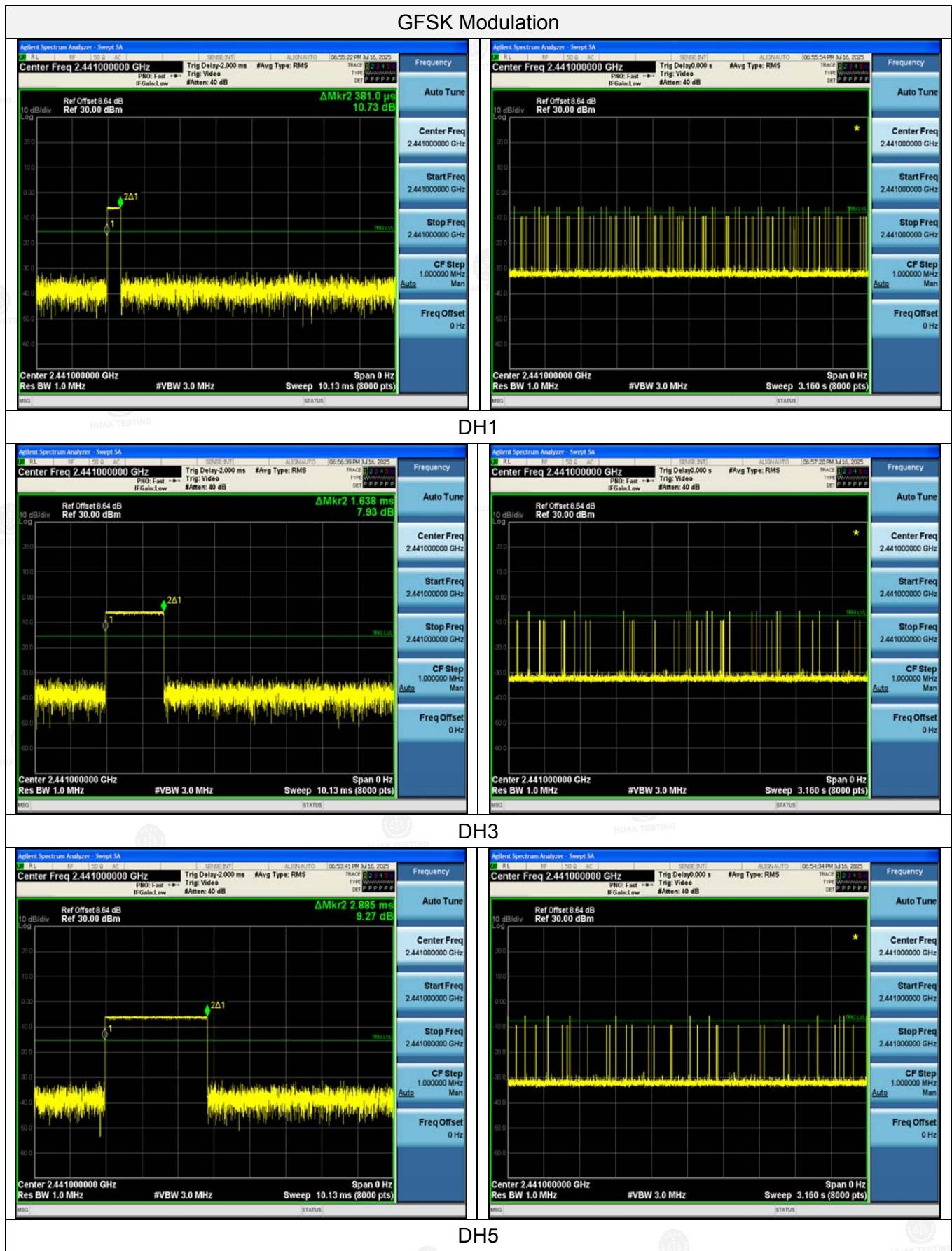
Test Results

Modulation	Packet	Pulse time (ms)	Number of transmission in 31.6s (79 Hopping*0.4)= Burst Count	Dwell time (second)	Limit (second)	Result
GFSK	DH1	0.381	30 (pulses)*10=300	0.114	0.40	PASS
	DH3	1.638	14 (pulses)*10=140	0.229		
	DH5	2.885	9 (pulses)*10=90	0.260		
π/4DQPSK	2-DH1	0.391	31 (pulses)*10=310	0.121	0.40	PASS
	2-DH3	1.643	14 (pulses)*10=140	0.230		
	2-DH5	2.891	11 (pulses)*10=110	0.318		

Note:

1. We have tested all mode at high,middle and low channel, and recorded worst case at middle channel.
2. Dwell time =[Pulse time (ms) /1000] x Burst Count

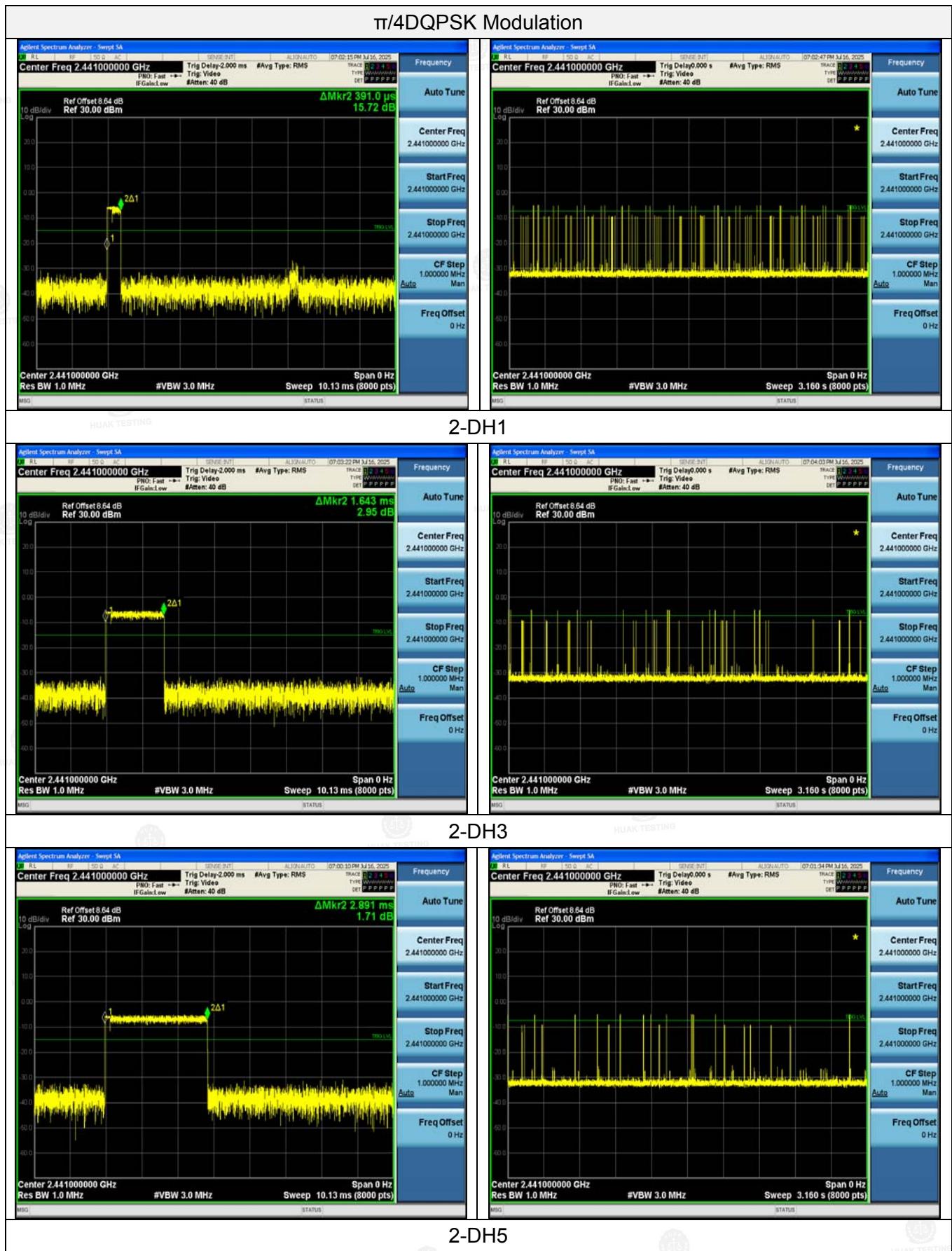
Test plot as follows:



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3.8. Out-of-Band Emissions

Limit

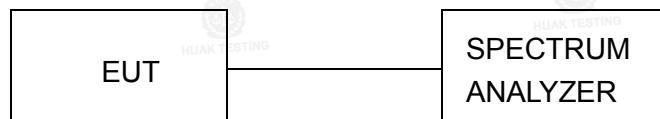
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector , and max hold. Measurements utilizing these setting are made of the in-band reference level, band edge and out-of-band emissions.

Test Configuration



Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandage measurement data.

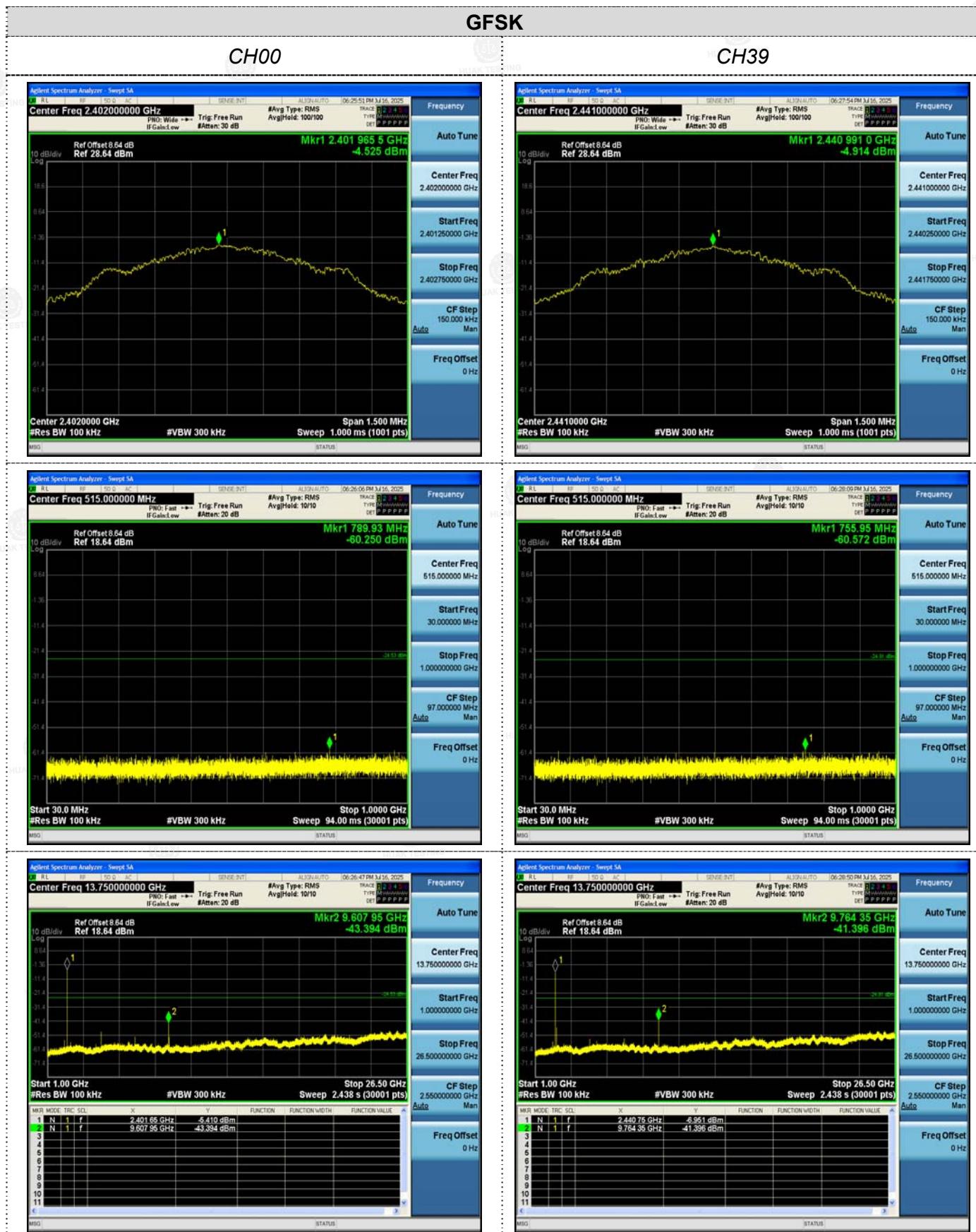
We measured all conditions (DH1, DH3, DH5) and recorded worst case at DH5 and 2DH5

Test plot as follows:

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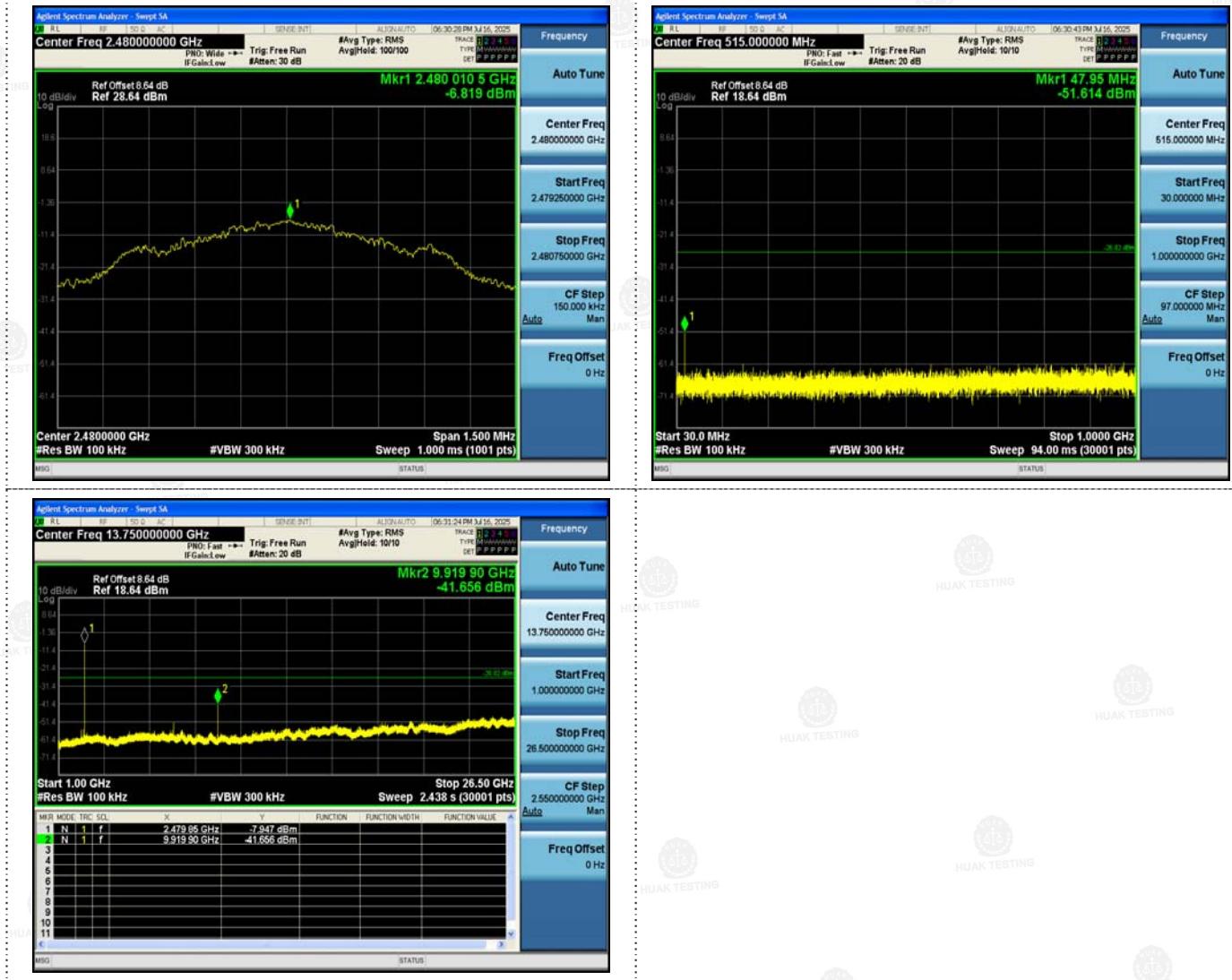


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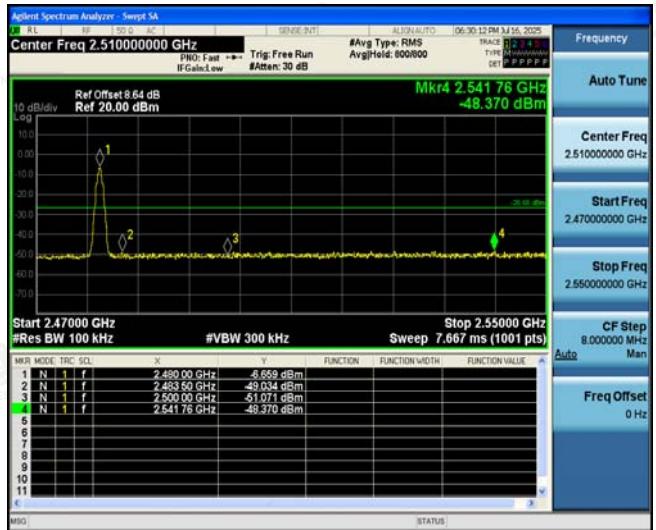
CH78



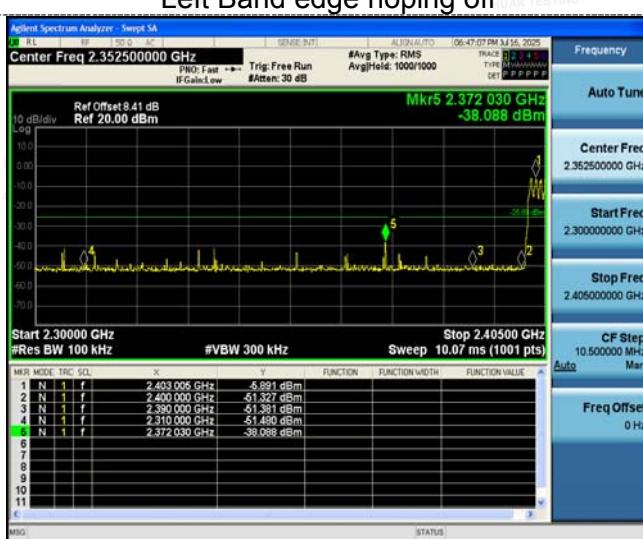
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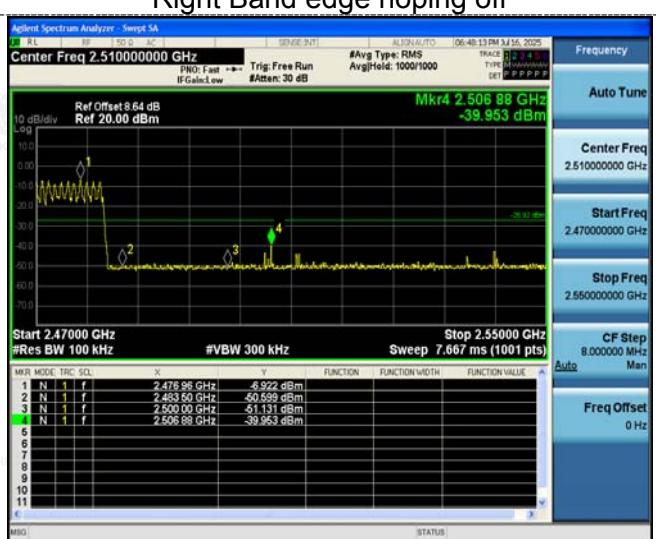
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Right Band edge hoping off



Left Band edge hoping off



Right Band edge hoping on

Left Band edge hoping on

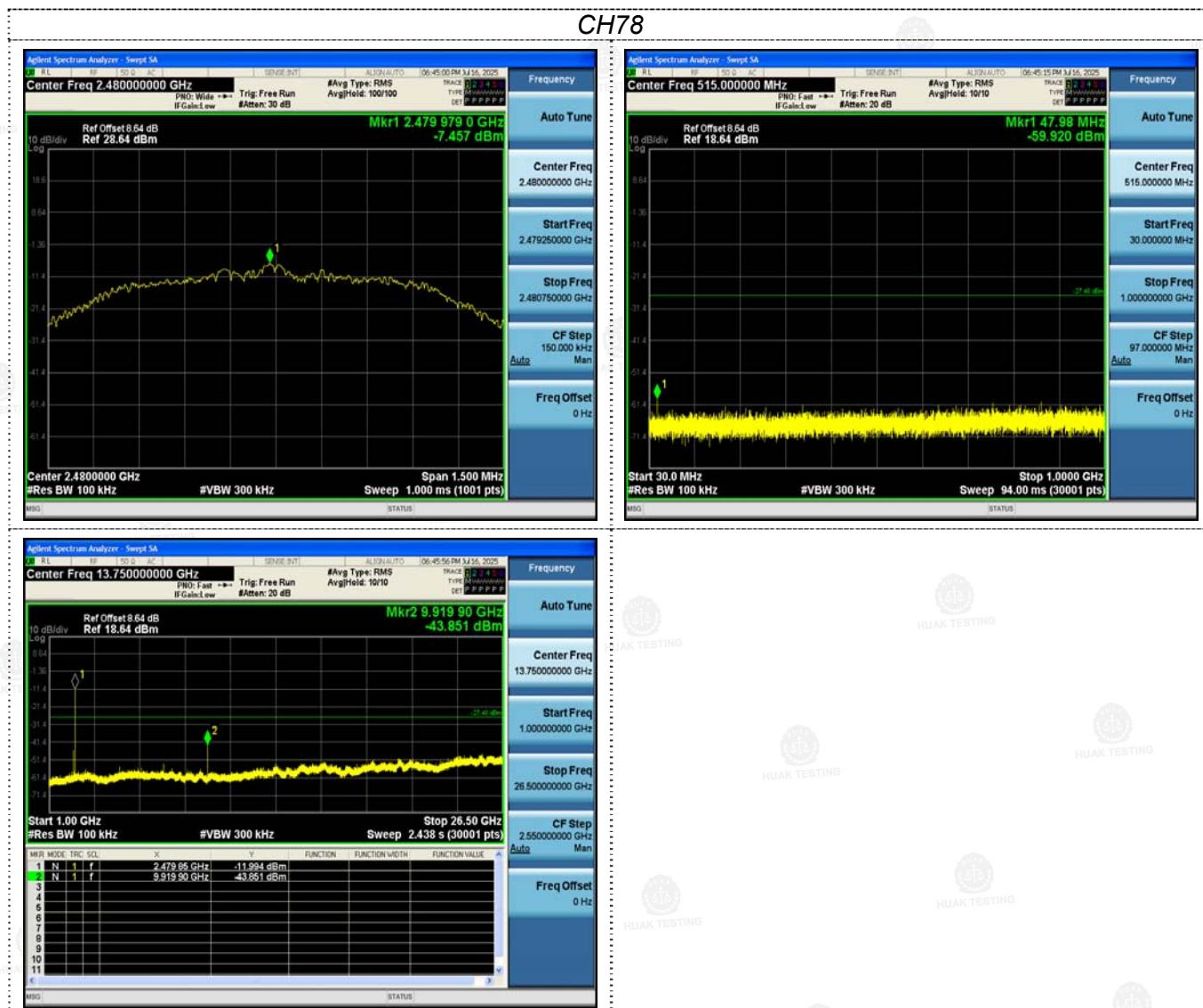
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3.9. Pseudorandom Frequency Hopping Sequence

Test Applicable

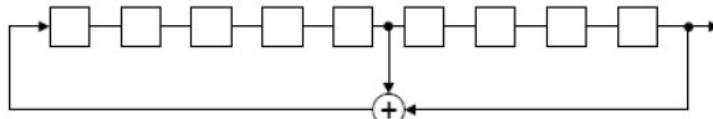
For 47 CFR Part 15C section 15.247 (a) (1):

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hop-ping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence Requirement

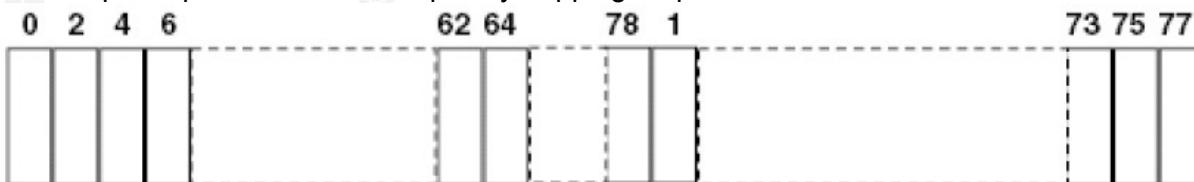
The pseudorandom frequency hopping sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages:9
- Length of pseudo-random sequence: $2^9-1=511$ bits
- Longest sequence of zeros:8(non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:



Each frequency used equally one the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.



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3.10. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

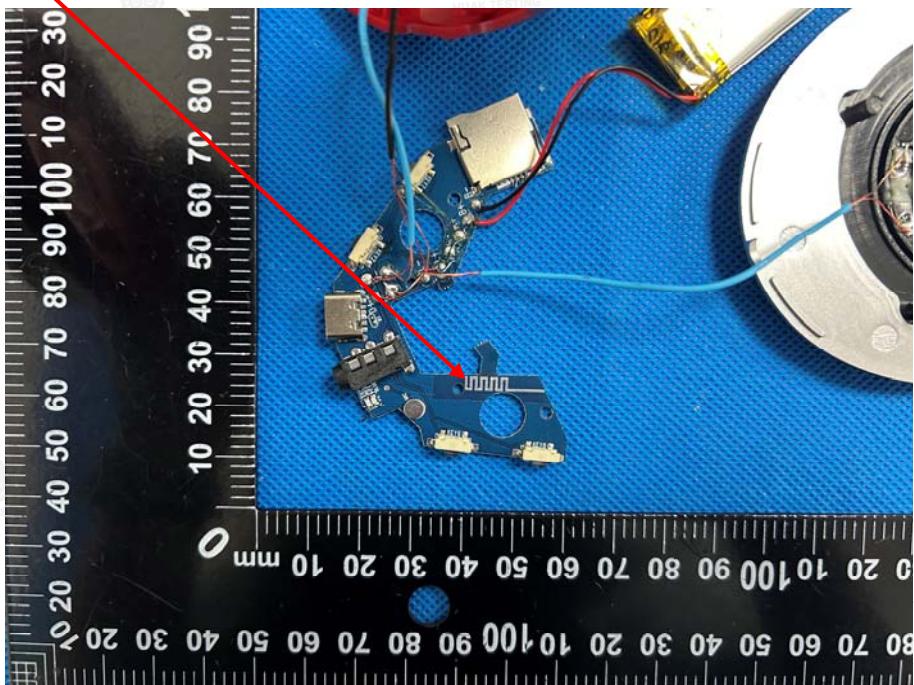
Refer to Statement below for Compliance

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a PCB Antenna, is a permanently attached antenna on the PCB. It conforms to the standard requirements. The directional gains of antenna used for transmitting is -0.58dBi.

Antenna



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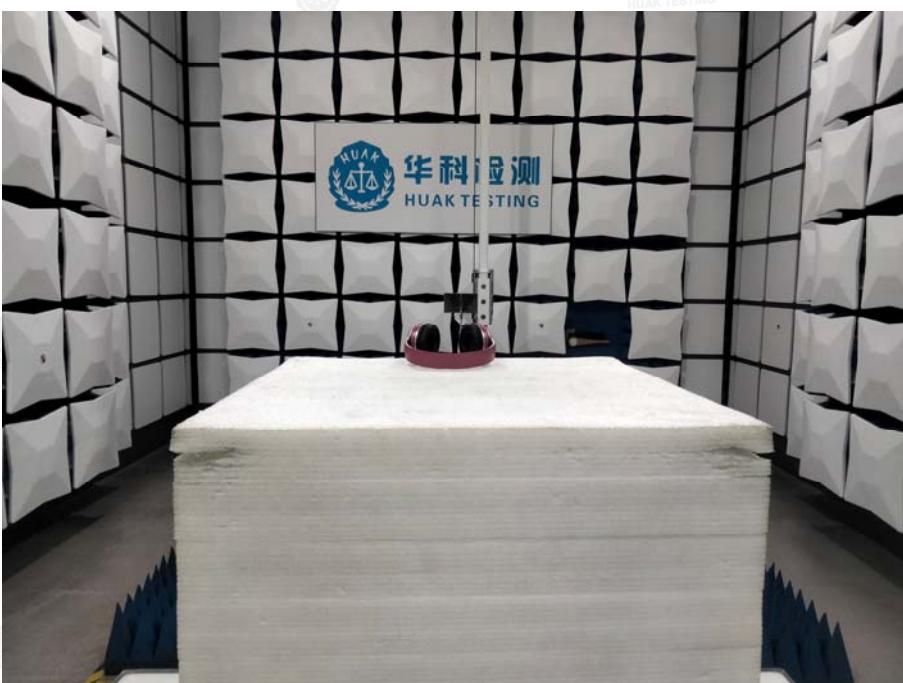
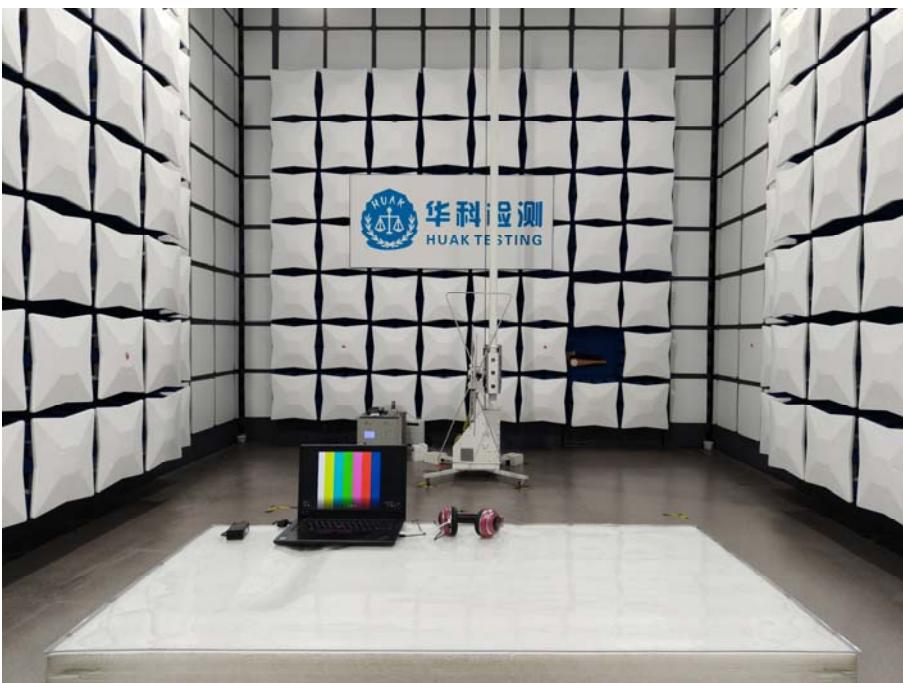


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4. Test Setup Photos of the EUT

Radiated Emission





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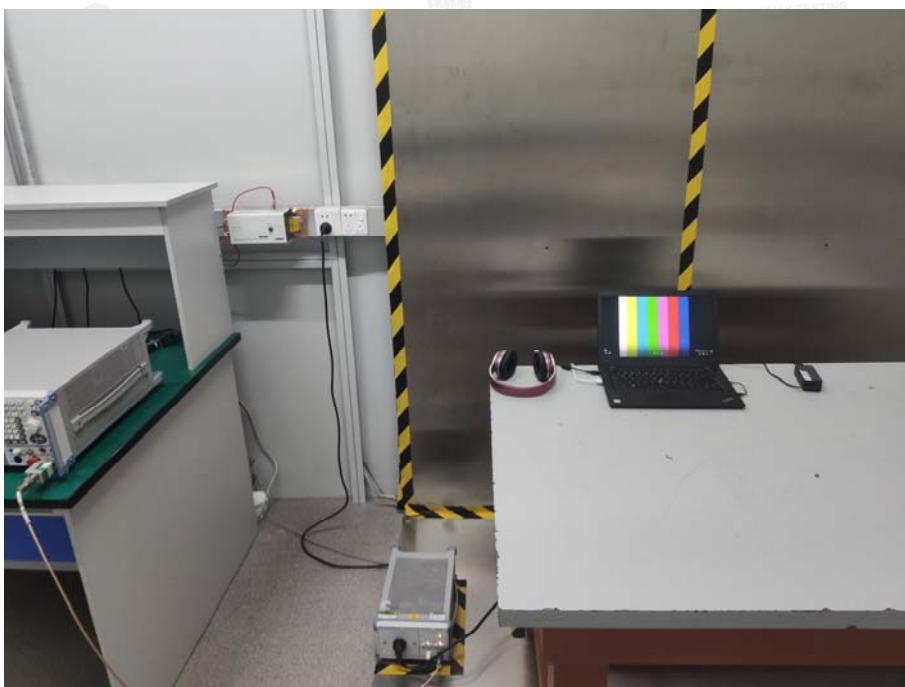
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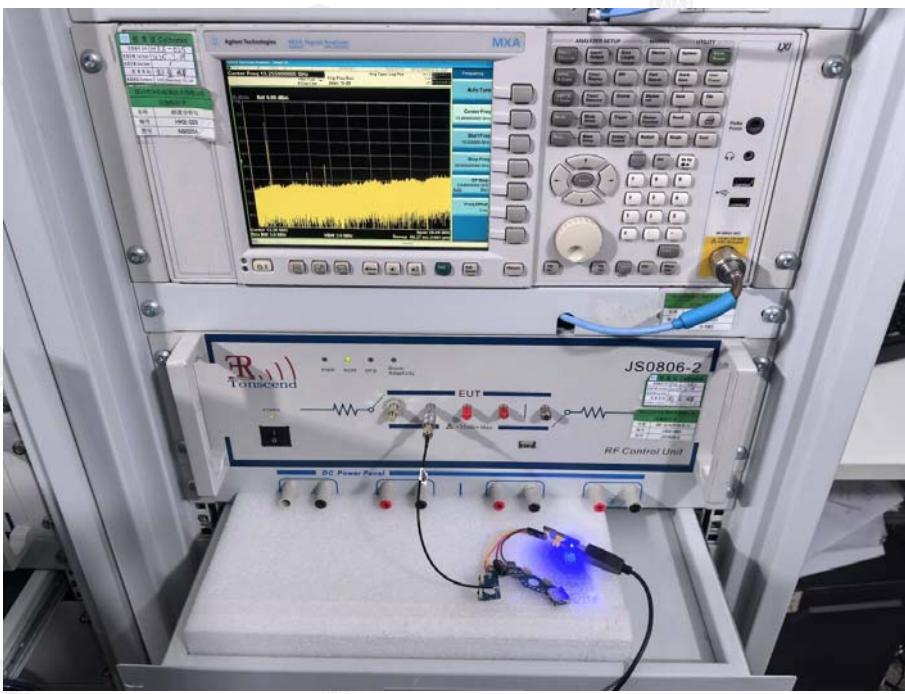


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AC Conducted Emission



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5. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----



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