Test Report

FCC RF TEST REPORT

For

Product:Wireless Presenter
Model: P90
FCC ID: 2BRWQ-P90
Report No.: RKEYS250814004

Issued for

Shenzhen Wumusen Technology Co., Ltd.
4th Floor, No. 68, Yangtai Mountain Road, Guantian Community, Shiyan Street, Bao'an, ShenzhenCity,China

Issued by

Guangdong KEYS Testing Technology Co., Ltd.
Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China

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1. TEST CERTIFICATION

Product:	Wireless Presenter
Trade mark:	/
Model:	P90
Applicant :	Shenzhen Wumusen Technology Co., Ltd.
Address:	4th Floor, No. 68, Yangtai Mountain Road, Guantian Community, Shiyan Street, Bao'an, Shenzhen City,China
Manufacturer:	Shenzhen Wumusen Technology Co., Ltd.
Address:	4th Floor, No. 68, Yangtai Mountain Road, Guantian Community, Shiyan Street, Bao'an, Shenzhen City,China
Sample Receive Date:	Aug.14, 2025
Test Date:	Aug.14, 2025~Aug.30, 2025
Applicable Standards:	CFR 47, FCC Part 15.249
Application Purpose	Original Grant

The above equipment has been tested by Guangdong KEYS Testing Technology Co., Ltd. and found compliance with the requirements in the technical standards mentioned above. The test results presented in this report only relate to the product/system tested. The other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Prepared by: Evan Fang / Engineer

Approved by: Bruce Zhang / Manager

2. TEST SUMMARY

FCC Part 15C	Description of Test	Result
15.203	Antenna Requirement	Pass
15.215	20dB Bandwidth	Pass
15.249&15.209	Band Edge	Pass
15.249& 15.209	Field Strength of Fundamental &Radiated Spurious Emissions	Pass
15.207	Conducted Emission on AC Mains	N/A

N/A Means not applicable.

3. TEST SITE

3.1. TEST FACILITY

Guangdong KEYS Testing Technology Co., Ltd.
Address: Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China
A2LA Certificate Number.:7547.01
FCC Designation Number:CN1419
FCC Test Firm Registration Number:361541

3.2. MEASUREMENT UNCERTAINTY

Parameter	Uncertainty
Conducted Emission(150KHz-30MHz)	±3.2dB
Radiated Emission(9kHz-30MHz)	±3.5dB
Radiated Emission(30MHz-1GHz)	±4.7dB
Radiated Emission (1GHz-6GHz)	±5.1dB
Radiated Emission (6GHz-18GHz)	±5.1dB
Bandwidth	±70Hz

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.3. Test Environment Condition

Ambient Temperature:	24~25°C
Ambient Relative Humidity:	55~60 %

4. Test Equipment List

Equipment	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	KEYS-EL-203	Mar. 03, 2025	1 Year
Pulse limiter	Rohde&Schwarz	ESH3-Z2	KEYS-EL-201	Mar. 03, 2025	1 Year
LISN	Rohde&Schwarz	ENV216	KEYS-EL-202	Mar. 03, 2025	1 Year
Shielding Room	Taihe Mao Rui Electronic Equipment Co., Ltd.	8m*4m*4m	KEYS-EL-230	2024 / 10 / 12	5 Year
EMI Test Receiver	Rohde&Schwarz	ESCI7	KEYS-EL-205	Mar. 03, 2025	1 Year
Logarithmic Periodic Broadband Antenna	SCHWARZBECK	VULB9168	KEYS-EL-209	Mar. 06, 2025	3 Year
Preamplifier	HP	8447F	KEYS-EL-210	Mar. 03, 2025	1 Year
Horn Antenna	SCHWARZBECK	BBHA 9120D	KEYS-EL-239	Mar. 06, 2025	3 Year
Preamplifier	/	1-18-53G22	KEYS-EL-240	Mar. 03, 2025	1 Year
Anechoic Chamber	Taihe Mao Rui Electronic Equipment Co., Ltd.	9m*6m*6m	KEYS-EL-230	2024 / 10/ 12	5 Year
Signal Analyzer	Keysight	N9020A	KEYS-EL-238	Mar. 03, 2025	1 Year
Spectrum Analyzer	Rohde&Schwarz	FSV-40N	KEYS-EL-269	Mar. 03, 2025	
18-40GHz	COM-MW	ZLB7-18-40G-77	KEYS-EL-276	May 19, 2025	1 Year

Antenna		7			
18-40GHz Preamplifier	QUANJUDA	LNA-18004000-50G35	KEYS-EL-277	May 17, 2025	1 Year
Filter	WCS Technology	ZBSF6-C2400-2483.5-294	KEYS-EL-270	May 17, 2025	1 Year
RF Cable	Rosenberger	/	KEYS-EL-278	May 17, 2025	3 Year
RF Cable	COM-MW	DCA9-2.92M80002.92M3.6-1304	KEYS-EL-279	May 17, 2025	3 Year
DC Power	Agilent	E3632A	KEYS-EL-243	Mar. 03, 2025	1Year
Power Switch	WCS Technology	SMU-3002	KEYS-EL-247	Apr. 16, 2025	1 Year
RF Test Software	WCS Technology	WCN-Regulatory	Version 25.03.2901		
EMI Test Software	Tonscend	JS32-RE	Version 5.0.0		

Note:The attenuator is integrated into the Power Switch Box and taken into consideration during testing.

5. EUT DESCRIPTION

Product	Wireless Presenter
Test Model	P90
Additional Model	/
Rating	Battery :DC 1.5V *AAA
FCC ID	2BRWQ-P90
Antenna Type	PCB Antenna
Antenna Gain	0.17dBi
Operation Frequency	2411-2476MHz
Number of Channels:	3
Modulation Type	GFSK

Note:
1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity.
3) The test results in the report only apply to the tested sample.

5.1. DESCRIPTION OF TEST CONFIGURATION

Channel List：

Channel No.	Frequency (MHz)
1	2411
2	2447
3	2476

5.2. EQUIPMENT MODIFICATIONS

Any modifications installed previous to testing by Shenzhen Wumusen Technology Co., Ltd. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by KEYS Testing Technology Co., Ltd.

6. TEST METHODOLOGY

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10-2020.

6.1. EUT SYSTEM OPERATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered by DC 1.5V during the test.

7. SETUP OF EQUIPMENT UNDER TEST

7.1. 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.

Support Equipment

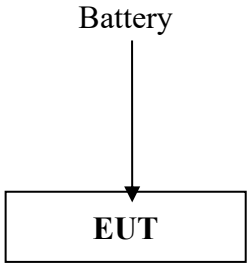
No.	Equipment	Model	Serial No.	Manufacturer
1	/	/	/	/
2	/	/	/	/

Support Cable

No.	Description	Shield	Length	Manufacturer
1	/	/	/	/
2	/	/	/	/

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.

7.2. BLOCK DIAGRAM OF EUT CONFIGURATION



(EUT: Wireless Presenter)

7.3. EUT EXERCISE SOFTWARE

The EUT transmitting is Controlled by button and output power is default.

8. TEST RESULTS AND MEASUREMENT DATA

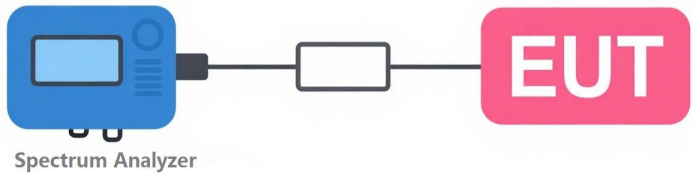
8.1. ANTENNA REQUIREMENT

Test Requirement:	FCC Part 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.
Test Result:	According to the manufacturer declared, the EUT has a PCB antenna, the directional gain of antenna is 0.17dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision. Refer to EUT Photo for further details.

8.2. 20% BANDWIDTH

Test Requirement:	FCC Part15.215
Test Mode:	Transmitting mode with modulation
Limit:	No limit Requirement
Test Procedure:	a. Set resolution bandwidth (RBW)=1-5% b. Set the video bandwidth (VBW)≥3 x RBW. c. Detector = Peak. d. Trace mode = max hold. e. Sweep= auto couple. f. Allow the trace to stabilize. g. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.
Test Result:	PASS

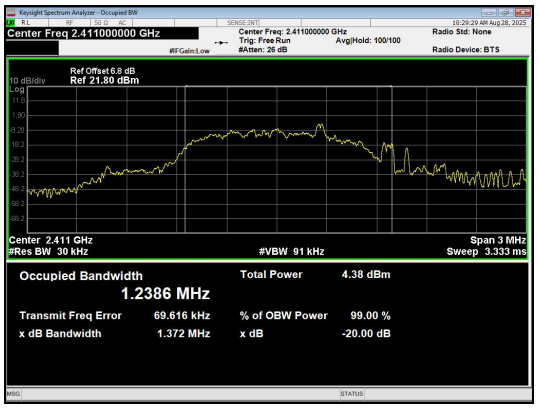
8.2.1.Test Setup



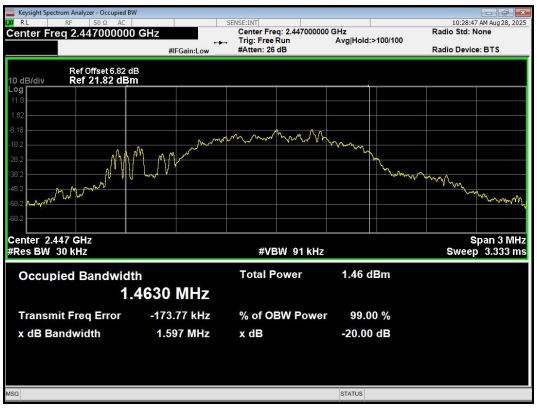
8.2.2.Test Result

Mode	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	2411	1.372
	2447	1.597
	2476	1.684

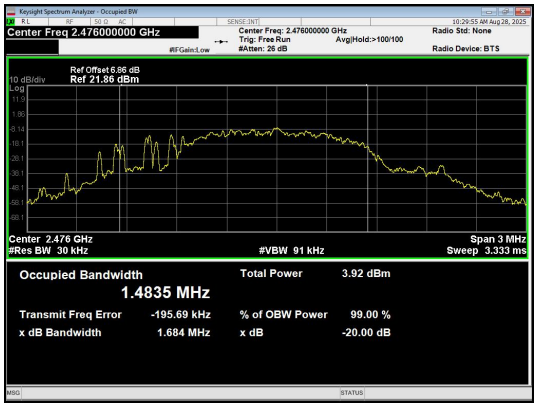
Test Graphs



GFSK_Frequency_2411MHz



GFSK_Frequency_2447MHz

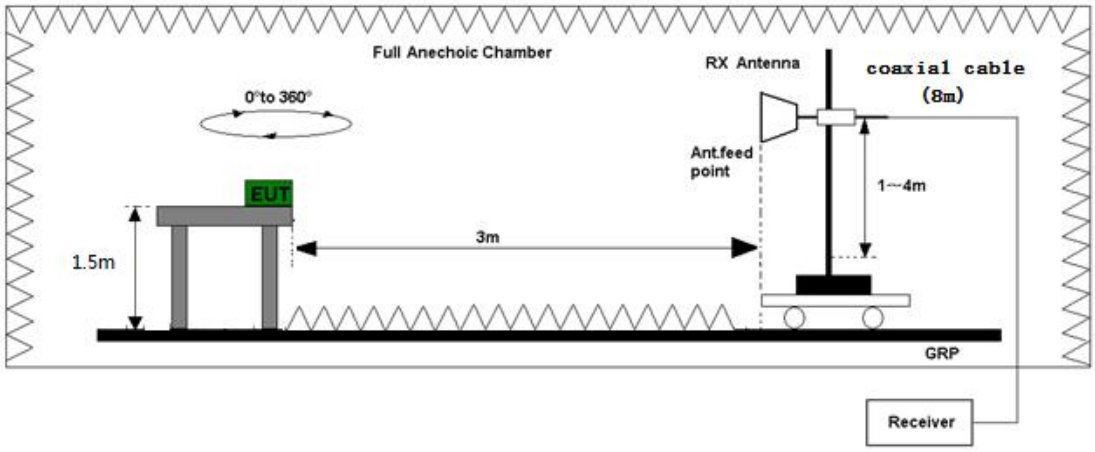


GFSK_Frequency_2476MHz

8.3. BAND EDGE

<table>
<tr><td>Test Requirement:</td><td>FCC Part 15.249 ,15.209,15.205</td></tr>
<tr><td>Test Mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency Range(MHz)</th><th>Field Strength Limit (microvolts/meter)</th><th>Measurement Distance(meters)</th></tr>
<tr><td>0.009~0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490~1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705~30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100</td><td>3</td></tr>
<tr><td>88-216</td><td>150</td><td>3</td></tr>
<tr><td>216-960</td><td>200</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
</td></tr>
<tr><td>Test Procedure:</td><td></td></tr>
<tr><td>Test Result:</td><td>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 through rotation.
1. The EUT was placed on a turntable with 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
Set to the maximum power setting and enable the EUT transmit continuously.</td></tr>
<tr><td>Test Result:</td><td>Pass</td></tr>
</table>

8.3.1.Test Setup:



Test set-up of radiated disturbance (Above 1GHz)

8.3.2.Test Result

Test Voltage	DC 1.5V

2411 MHz:

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Cable Loss（dB）	Emission Level (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)	Detector Type
Horizontal	2390.00	80.2	55.5	28.2	4.5	57.4	74.0	-16.6	PK
Horizontal	2390.00	58.7	55.5	28.2	4.5	35.9	54.0	-18.1	AV
Horizontal	2400.00	79.8	55.6	28.3	4.6	57.1	74.0	-16.9	PK
Horizontal	2400.00	59.7	55.6	28.3	4.6	37	54.0	-17	AV

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Cable Loss（dB）	Emission Level (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)	Detector Type
Vertical	2390.00	79.5	55.5	28.2	4.5	56.7	74.0	-17.3	PK
Vertical	2390.00	59.8	55.5	28.2	4.5	37	54.0	-17	AV
Vertical	2400.00	79.1	55.6	28.3	4.6	56.4	74.0	-17.6	PK
Vertical	2400.00	59.2	55.6	28.3	4.6	36.5	54.0	-17.5	AV

2476MHz:

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Cable Loss（dB）	Emission Level (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)	Detector Type
Horizontal	2483.50	82.8	55.9	28.9	5.2	61	74.0	-13	PK
Horizontal	2483.50	62.1	55.9	28.9	5.2	40.3	54.0	-13.7	AV
Horizontal	2500.00	81.8	56.0	29.0	5.3	60.1	74.0	-13.9	PK
Horizontal	2500.00	60.9	56.0	29.0	5.3	39.2	54.0	-14.8	AV

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Cable Loss（dB）	Emission Level (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)	Detector Type
Vertical	2483.50	81.1	55.9	28.9	5.2	59.3	74.0	-14.7	PK
Vertical	2483.50	60.2	55.9	28.9	5.2	38.4	54.0	-15.6	AV
Vertical	2500.00	80.0	56.0	29.0	5.3	58.3	74.0	-15.7	PK
Vertical	2500.00	59.7	56.0	29.0	5.3	38	54.0	-16	AV

8.4. FIELD STRENGTH OF FUNDAMENTAL & RADIATED SPURIOUS EMISSIONS

Test Requirement:	FCC Part 15.249 ,15.209
Test Mode:	Transmitting mode with modulation
Limit:	

Frequency Range(MHz)	Field Strength Limit (microvolts/meter)	Measurement Distance(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency Range(MHz)	Field Strength of fundamental (microvolts/meter)	Field strength of harmonics (microvolts/meter)
902~928	50	500
2400~2483.5	50	500
5725~5875	50	500
24.0-24.25	250	2500

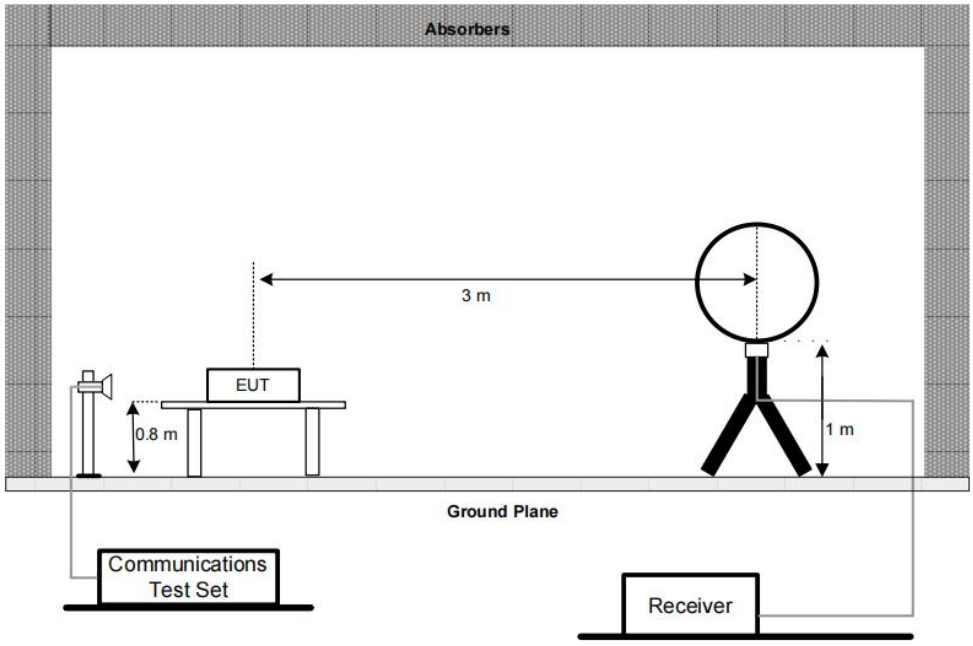
Test Procedure:

1. The EUT was placed on a turntable with 0.8 meter for frequency below1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

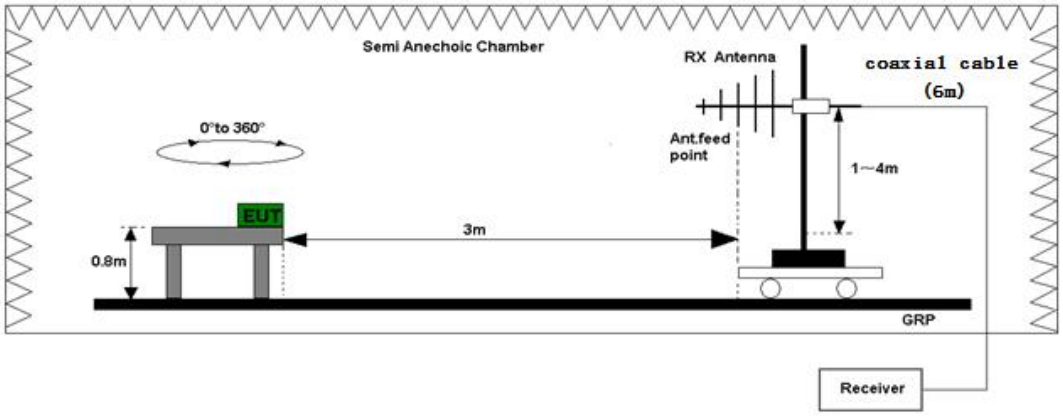
For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a

	3. high pass filter are used for the test in order to get better signal level to comply with the guidelines. Set to the maximum power setting and enable the EUT transmit continuously.
Test Result:	Pass

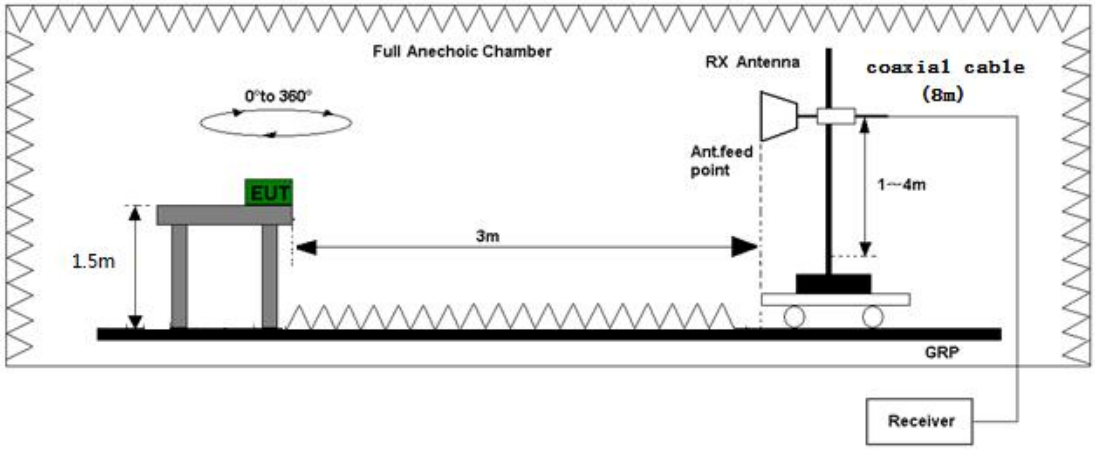
8.4.1.Test Setup:



Test set-up of radiated disturbance (Up to 30MHz)



Test set-up of radiated disturbance (30MHz to 1GHz)



Test set-up of radiated disturbance (Above 1GHz)

8.4.2.Test Result

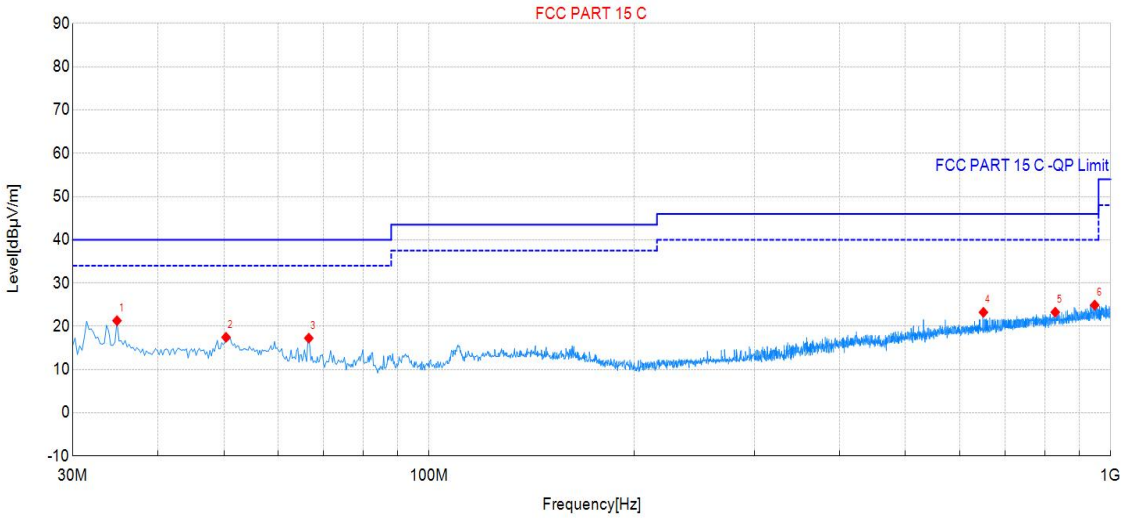
Test Voltage	DC 1.5V

Worst-case Spurious Emission below 1GHz

GFSK-2476MHz

Please refer to the following diagram:

Vertical:



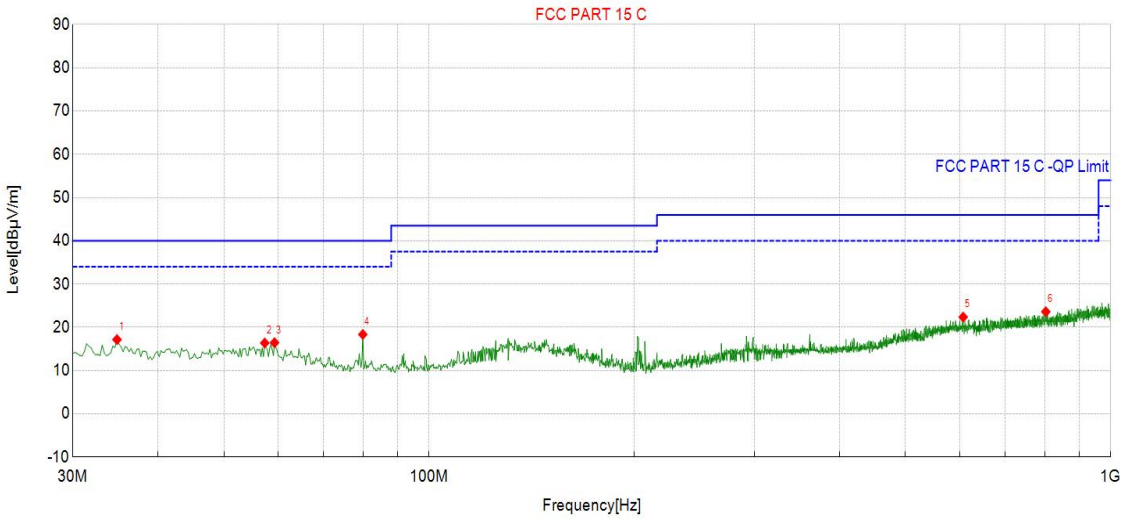
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	34.85	38.80	21.29	-17.51	40.00	18.71	100	222	QP	Vert	PASS
2	50.37	34.71	17.46	-17.25	40.00	22.54	100	9	QP	Vert	PASS
3	66.62	36.29	17.26	-19.03	40.00	22.74	100	353	QP	Vert	PASS
4	650.56	32.67	23.23	-9.44	46.00	22.77	100	53	QP	Vert	PASS
5	829.28	30.97	23.26	-7.71	46.00	22.74	100	259	QP	Vert	PASS
6	947.38	31.75	24.91	-6.84	46.00	21.09	100	353	QP	Vert	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

Horizontal:



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	34.85	34.67	17.16	-17.51	40.00	22.84	100	61	QP	Hori	PASS
2	57.40	34.19	16.37	-17.82	40.00	23.63	100	333	QP	Hori	PASS
3	59.34	34.43	16.45	-17.98	40.00	23.55	100	353	QP	Hori	PASS
4	79.96	39.01	18.35	-20.66	40.00	21.65	100	146	QP	Hori	PASS
5	607.64	32.36	22.36	-10.00	46.00	23.64	100	238	QP	Hori	PASS
6	803.09	31.50	23.61	-7.89	46.00	22.39	100	333	QP	Hori	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

Worst-case Spurious Emission Above 1GHz

Radiated Emissions (above 1GHz)

2411MHz:

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Cable Loss（dB）	Emission Level (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)	Detector Type
Horizontal	2411.00	114.2	55.6	28.3	4.7	91.6	114.0	-22.4	PK
Horizontal	2411.00	105.4	55.6	28.3	4.7	82.8	94.0	-11.2	AV
Horizontal	4822.00	72.5	56.6	32.1	6.6	54.6	74.0	-19.4	PK
Horizontal	4822.00	59.2	56.6	32.1	6.6	41.3	54.0	-12.7	AV

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Cable Loss（dB）	Emission Level (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)	Detector Type
Vertical	2411.00	113.5	55.6	28.3	4.7	90.9	114.0	-23.1	PK
Vertical	2411.00	104.8	55.6	28.3	4.7	82.2	94.0	-11.8	AV
Vertical	4822.00	70.7	56.6	32.1	6.6	52.8	74.0	-21.2	PK
Vertical	4822.00	57.5	56.6	32.1	6.6	39.6	54.0	-14.4	AV

2447MHz:

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Cable Loss（dB）	Emission Level (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)	Detector Type
Horizontal	2447.00	110.1	55.7	28.6	5.0	88.0	114.0	-26	PK
Horizontal	2447.00	103.6	55.7	28.6	5.0	81.5	94.0	-12.5	AV
Horizontal	4894.00	73.8	56.7	32.2	6.7	56.0	74.0	-18	PK
Horizontal	4894.00	59.7	56.7	32.2	6.7	41.9	54.0	-12.1	AV

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Cable Loss（dB）	Emission Level (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)	Detector Type
Vertical	2447.00	109.9	55.7	28.6	5.0	87.8	114.0	-26.2	PK
Vertical	2447.00	103.5	55.7	28.6	5.0	81.4	94.0	-12.6	AV
Vertical	4894.00	73.8	56.7	32.2	6.7	56.0	74.0	-18	PK
Vertical	4894.00	59.6	56.7	32.2	6.7	41.8	54.0	-12.2	AV

2476MHz:

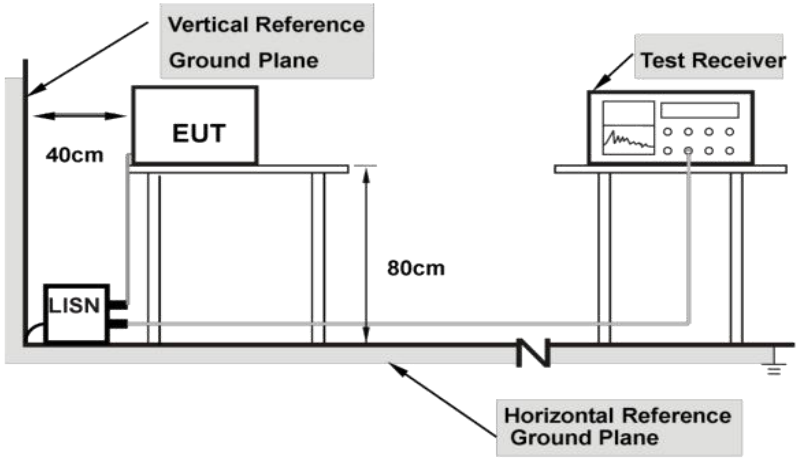
Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Cable Loss（dB）	Emission Level (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)	Detector Type
Horizontal	2476.00	111.8	55.8	28.9	5.2	90.1	114.0	-23.9	PK
Horizontal	2476.00	104.9	55.8	28.9	5.2	83.2	94.0	-10.8	AV
Horizontal	4952.00	72.6	56.8	33.3	6.8	55.9	74.0	-18.1	PK
Horizontal	4952.00	57.6	56.8	33.3	6.8	40.9	54.0	-13.1	AV

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Cable Loss（dB）	Emission Level (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)	Detector Type
Vertical	2476.00	113.7	55.8	28.9	5.2	92.0	114.0	-22	PK
Vertical	2476.00	105.8	55.8	28.9	5.2	84.1	94.0	-9.9	AV
Vertical	4952.00	72.9	56.8	33.3	6.8	56.2	74.0	-17.8	PK
Vertical	4952.00	60.6	56.8	33.3	6.8	43.9	54.0	-10.1	AV

8.5. CONDUCTED EMISSION

<table>
<tr><td>Test Requirement:</td><td>FCC Part 15.207</td></tr>
<tr><td>Test Mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td rowspan="2">Frequency of Emission (MHz)</td><td colspan="2">Conducted Limit (dBuV)</td></tr>
<tr><td>Quasi-peak</td><td>Average</td></tr>
<tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr>
<tr><td>0.5-5</td><td>56</td><td>46</td></tr>
<tr><td>5-30</td><td>60</td><td>50</td></tr>
</table>
*Decreases with the logarithm of the frequency.
</td></tr>
<tr><td>Test Procedure:</td><td>For tabletop equipment, the EUT along with its peripherals were placed on a 1.0m(W)×1.5m(L) and 0.8m in height wooden table. The EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled.</td></tr>
<tr><td>Test Result:</td><td>Pass</td></tr>
</table>

8.5.1.Test Setup



8.5.2.Test Result

N/A.The EUT is only power by battery.

9. PHOTOGRAPHS OF TEST SET-UP

For photographs of the test set-up, refer to the appendix A.

*** End of Report ***