



FCC Test Report

Report No: FCS202604116W01

Issued for

Applicant:	Enping Xuanyin Electronic Technology Co.,LTD
Address:	Zone A6-2,Industrial Transfer Park, Enping City,Guangdong Province
Product Name:	Wireless Microphone
Brand Name:	N/A
Model Name:	G4
Series Model:	G3,G5,G6,G7,AP08-5K,A5,A4,P5,P6
FCC ID:	2BVVA-G4
Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 0769-27280901 Fax:0769-27280901 http://www.fcs-lab.com	

TEST RESULT CERTIFICATION

Applicant Name.....: Enping Xuanyin Electronic Technology Co.,LTD

Address.....: Zone A6-2,Industrial Transfer Park, Enping City,Guangdong Province

Manufacture Name.....: Enping Xuanyin Electronic Technology Co.,LTD

Address.....: Zone A6-2,Industrial Transfer Park, Enping City,Guangdong Province

Product Description

Product Name.....: Wireless Microphone

Brand Name: N/A

Model Name.....: G4

Series Model.....: Please refer to the first page of the report

Test Standards.....: FCC Rules and Regulations Part 15 Subpart C, Section 249

Test Procedure.....: ANSI C63.10:2020+Cor.1-2023

This device described above has been tested FCS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....:

Date (s) of performance of tests.: Apr 13, 2026~Apr 21, 2026

Date of Issue.....: Apr 21, 2026

Test Result.....: Pass

Tested by :


(orange OuYang)

Reviewed by :


(Jojo Wu)

Approved by :


(Jack Wang)

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Revision History

Rev.	Issue Date	Effect Page	Contents
00	Apr 21, 2026	N/A	Initial Issue

1. SUMMARY OF TEST RESULTS

FCC Part 15.249, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.205(a), 15.209(a), 15.249(a), 15.249(c)	Radiated Spurious Emission	PASS	--
15.249(a)	Field strength of fundamental	PASS	--
15.249(d)	Band Edge Emission	PASS	--
15.215(c)	20dB Bandwidth	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) All tests are according to ANSI C63.10:2020+Cor.1-2023

1.1 TEST FACTORY

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-769-27280901
Fax:	+86-769-27280901
FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01	

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	RF output power, conducted	± 0.71 dB
2	Unwanted Emissions, conducted	± 2.98 dB
3	Conducted Emission (9KHz-150KHz)	± 4.13 dB
4	Conducted Emission (150KHz-30MHz)	± 4.74 dB
5	All emissions, radiated (<1G) 30MHz-1000MHz	± 3.2 dB
6	All emissions, radiated (1GHz -18GHz)	± 3.66 dB
7	All emissions, radiated (18GHz -40GHz)	± 4.31 dB
8	Occupied bandwidth	± 0.3 dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Wireless Microphone
Trade Name	N/A
Model Name	G4
Series Model	Please refer to the first page of the report
Model Difference	PCB board, structure and internal of these model(s) are the same, only differing in Model name and color. So no additional models were tested
Channel List	Please refer to the Note 2.
Specification	Frequency:2405-2463MHz Modulation: GFSK Channel number: 3CH
Power Supply	Output: DC 3V, A
Battery	DC 3.7V
Hardware version number	V1.0
Software version number	V1.0
Connecting I/O Port(s)	Please refer to the User's Manual

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2. Channel List

Channel	Frequency
The low channel	2405
The middle channel	2426
The High channel	2463

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	PCB antenna	N/A	-8.68	Antenna

2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

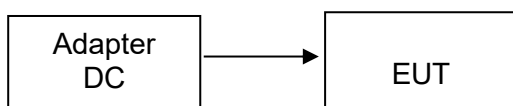
Test software:

The test software was used to control EUT work in continuous TX mode, and select test channel, Wireless mode as below table

No.	Test model description
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
Note: 1. All the test modes can be supplied by battery, only the result of the worst case recorded in the report. GFSK mode is worst mode. 2. For radiated emission, 3 axes were chosen for testing for each applicable mode. 3. The EUT used fully charged battery when tested. 4. During the test, the duty cycle > 98%, the test voltage was tuned from 85% to 115% of the Nominal rated supply voltage, and found that the worst case was the nominal rated supply condition. So the report just shows that condition's data	

Configuration and peripherals

CE:



RE:



2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
1	Adapter	XIAOMI	AD652G	N/A	this adapter is for testing only in repor

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.4 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2025.08.25	2026.08.24
Signal Analyzer	R&S	FSV40-N	FCS-E012	2025.08.25	2026.08.24
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2025.08.25	2026.08.24
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2025.08.25	2026.08.24
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2025.08.25	2026.08.24
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2025.08.25	2026.08.24
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2025.08.25	2026.08.24
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2025.08.25	2026.08.24
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2025.08.25	2026.08.24
Temperature & Humidity	HTC-1	victor	FCS-E005	2025.08.25	2026.08.24
Testing Software	EZ-EMC(Ver.STSLAB 03A1 RE)				

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2025.08.25	2026.08.24
LISN	R&S	ENV216	FCS-E007	2025.08.25	2026.08.24
LISN	ETS	3810/2NM	FCS-E009	2025.08.25	2026.08.24
Temperature & Humidity	HTC-1	victor	FCS-E008	2025.08.25	2026.08.24
Testing Software	EZ-EMC(Ver.EMC-CON 3A1.1)				

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
MXA SIGNAL Analyzer	Keysight	N9020A	FCS-E015	2025.08.25	2026.08.24
Spectrum Analyzer	Agilent	E4447A	MY50180039	2025.08.25	2026.08.24
Spectrum Analyzer	R&S	FSV-40	101499	2025.08.25	2026.08.24
Testing Software	LzRf V1.0				

Test Equipment Calibration

All of the test equipment is effective use and calibration certification institution, GRGT, the address is 163 tianhe district in huangpu road xiping cloud road .Guangzhou,China

3 CONDUCTED EMISSION MEASUREMENT

3.1 LIMIT

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

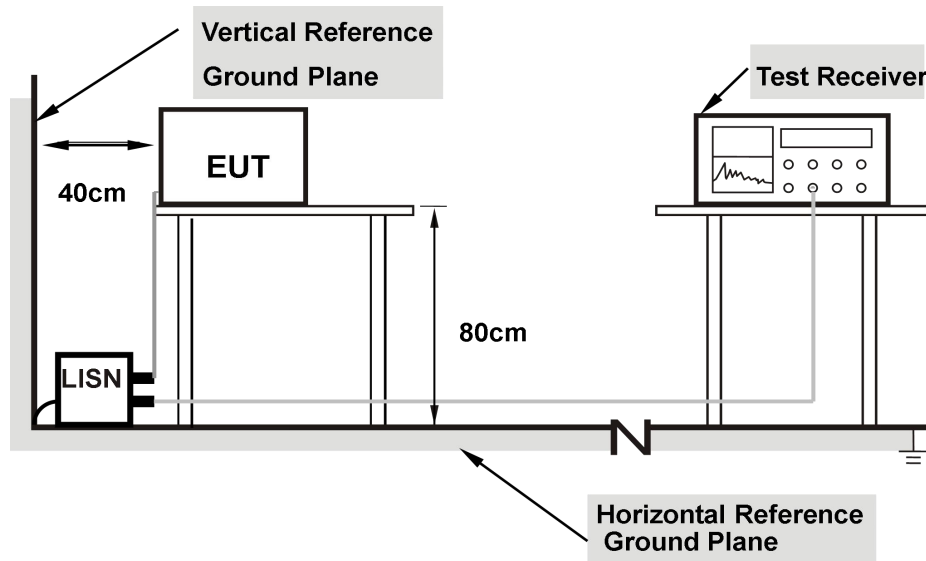
3.2 TEST PROCEDURE

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



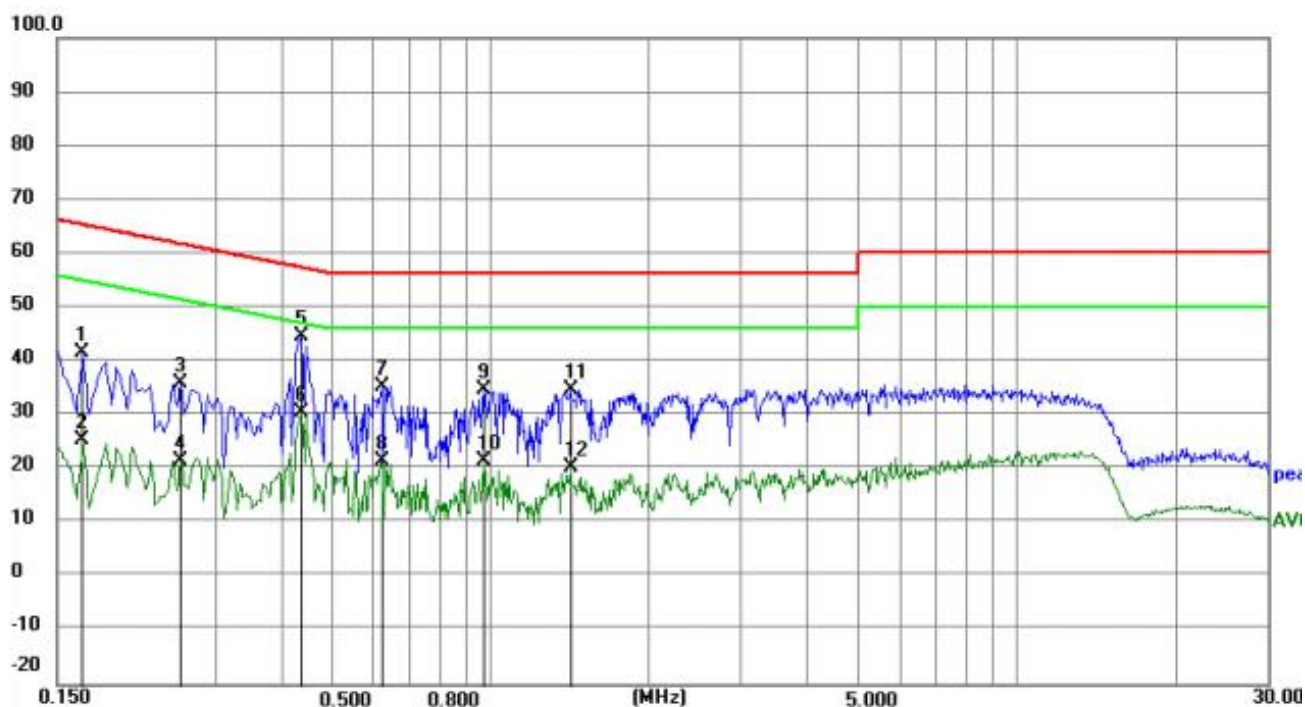
Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.4 TEST RESULTS

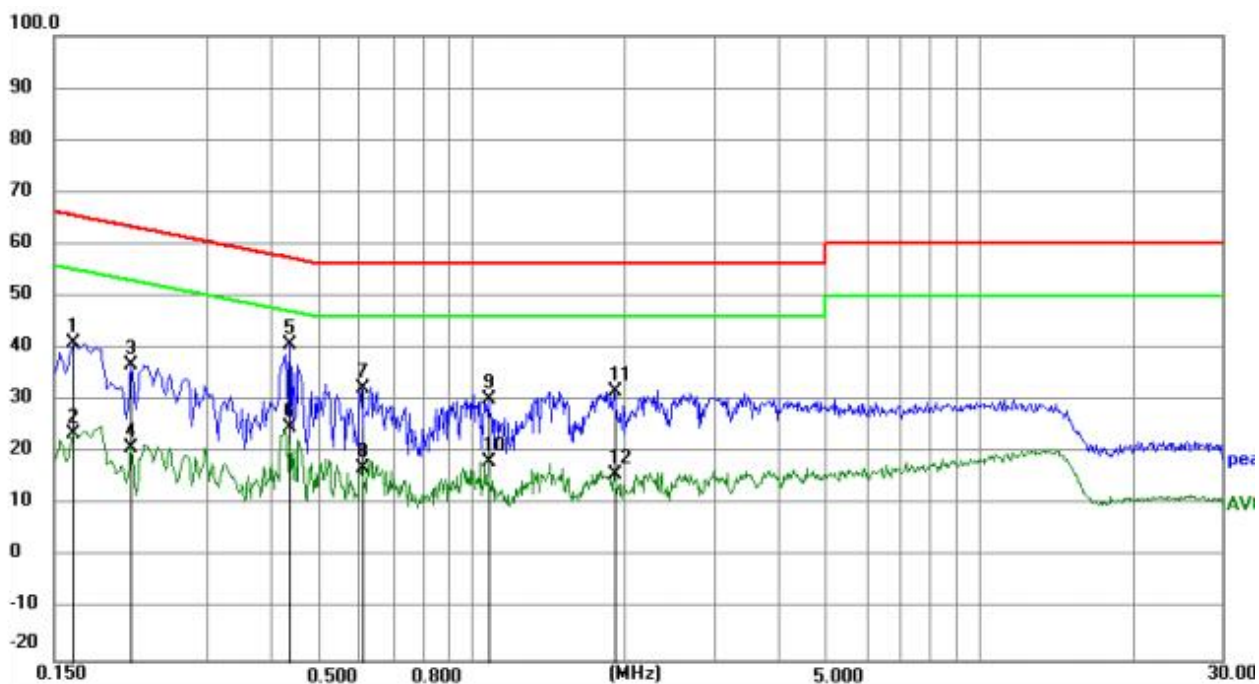
Temperature:	23.5°C	Relative Humidity:	59%
Phase:	L	Test Mode:	GFSK
Test Voltage:	DC 3V		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1680	31.83	9.95	41.78	65.06	23.28	QP
2	0.1680	15.60	9.95	25.55	55.06	29.51	AVG
3	0.2580	26.02	9.89	35.91	61.50	25.59	QP
4	0.2580	11.54	9.89	21.43	51.50	30.07	AVG
5	0.4380	34.85	9.91	44.76	57.10	12.34	QP
6	0.4380	20.53	9.91	30.44	47.10	16.66	AVG
7	0.6224	25.42	9.90	35.32	56.00	20.68	QP
8	0.6224	11.58	9.90	21.48	46.00	24.52	AVG
9	0.9689	24.91	9.98	34.89	56.00	21.11	QP
10	0.9689	11.64	9.98	21.62	46.00	24.38	AVG
11	1.4234	24.79	10.01	34.80	56.00	21.20	QP
12	1.4234	10.39	10.01	20.40	46.00	25.60	AVG



Temperature:	23.5℃	Relative Humidity:	59%
Phase:	N	Test Mode:	GFSK
Test Voltage:	DC 3V		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1635	31.16	9.89	41.05	65.28	24.23	QP
2	0.1635	13.90	9.89	23.79	55.28	31.49	AVG
3	0.2130	27.04	9.83	36.87	63.09	26.22	QP
4	0.2130	11.26	9.83	21.09	53.09	32.00	AVG
5	0.4380	30.82	9.90	40.72	57.10	16.38	QP
6	0.4380	14.99	9.90	24.89	47.10	22.21	AVG
7	0.6045	22.33	9.93	32.26	56.00	23.74	QP
8	0.6045	7.16	9.93	17.09	46.00	28.91	AVG
9	1.0770	20.22	9.97	30.19	56.00	25.81	QP
10	1.0770	8.27	9.97	18.24	46.00	27.76	AVG
11	1.9050	21.82	10.04	31.86	56.00	24.14	QP
12	1.9050	5.87	10.04	15.91	46.00	30.09	AVG



Remark:

1.All readings are Quasi-Peak.

2.Margin = Result (Result =Reading + Factor) - Limit

3.Factor= Cable Loss +Antenna Factor-Amplifier Gain

4. RADIATED EMISSION MEASUREMENT

4.1 LIMIT

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10:2020+Cor.1-2023 below has to be followed

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009mhz - 1000mhz)

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

LIMITS OF FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
2400-2483.5	114	94

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	PK=1MHz / 1MHz, AV=1 MHz /10 Hz

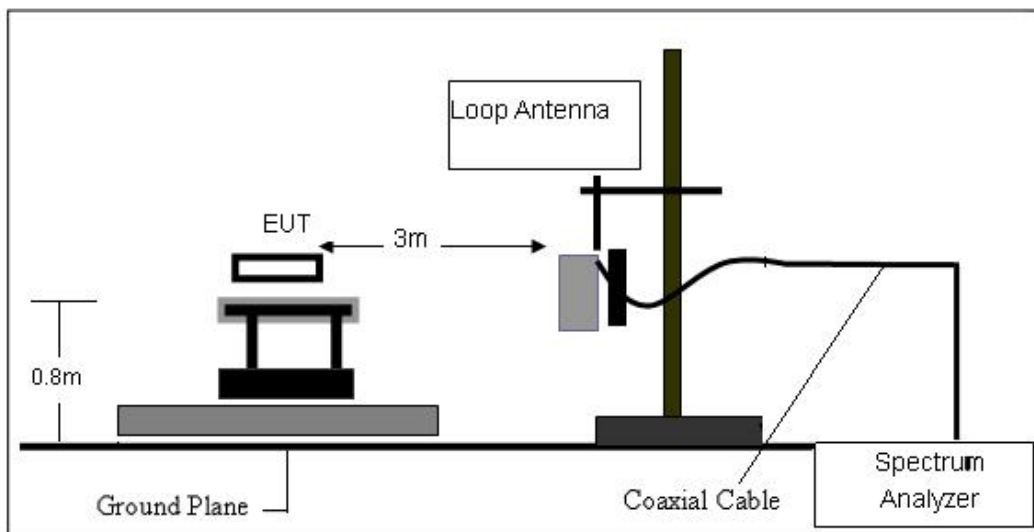
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then QuasiPeak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

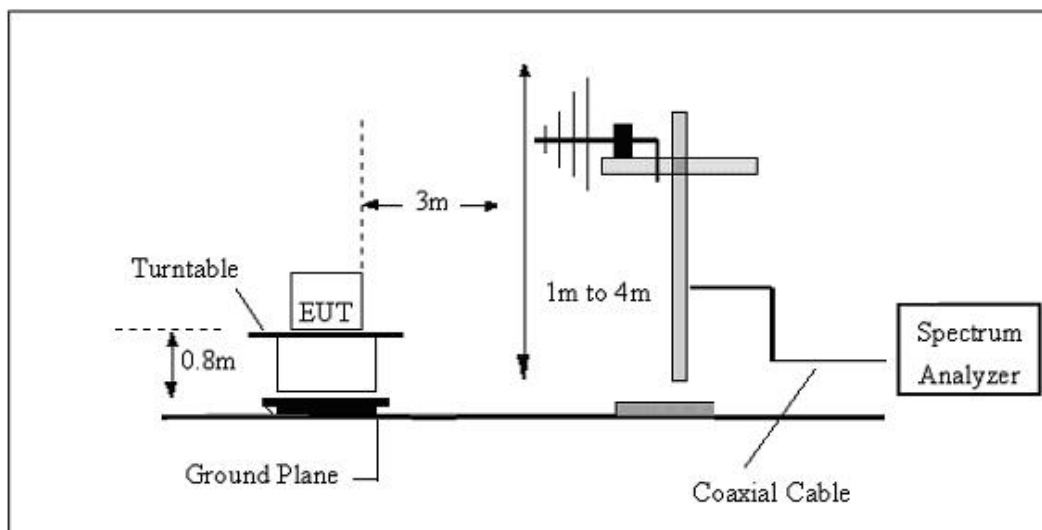
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.3 TEST SETUP

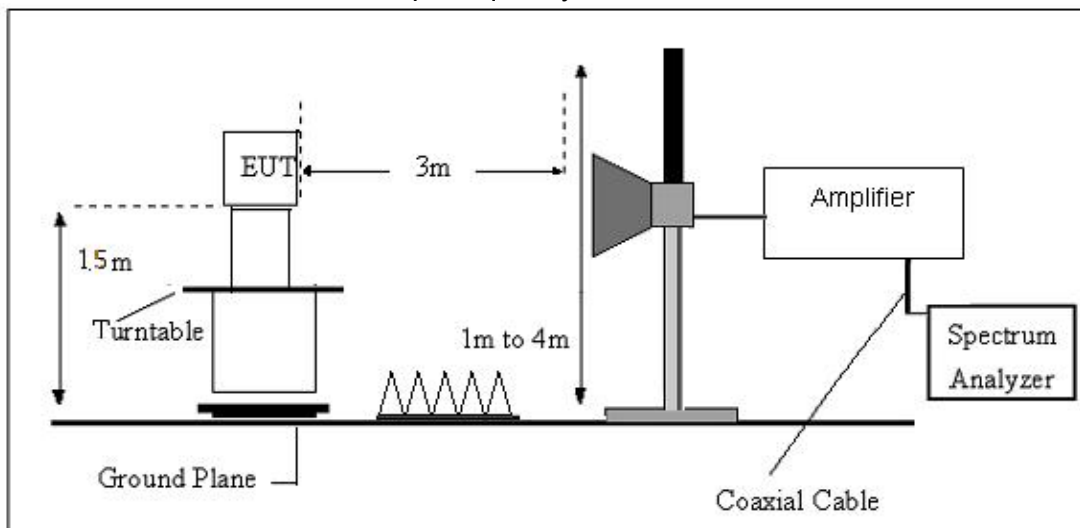
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



Temperature:	23.7°C	Relative Humidity:	61%
Test Voltage:	DC 3.7V	Test Mode:	GFSK

For field strength of the fundamental signal

Peak

No.	Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2405	92.25	27.58	5.39	30.18	95.04	114.00	-18.96	Horizontal
2	2405	92.02	27.58	5.39	30.18	94.81	114.00	-19.19	Vertical
3	2426	92.03	27.55	5.43	30.06	94.95	114.00	-19.05	Horizontal
4	2426	92.06	27.55	5.43	30.06	94.98	114.00	-19.02	Vertical
5	2463	92.24	27.52	5.47	29.93	95.3	114.00	-18.7	Horizontal
6	2463	92.06	27.52	5.47	29.93	95.12	114.00	-18.88	Vertical

Avg

No.	Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2405	76.59	27.58	5.39	30.18	79.38	94.00	-14.62	Horizontal
2	2405	75.78	27.58	5.39	30.18	78.57	94.00	-15.43	Vertical
3	2426	76.55	27.55	5.43	30.06	79.47	94.00	-14.53	Horizontal
4	2426	72.85	27.55	5.43	30.06	75.77	94.00	-18.23	Vertical
5	2463	73.19	27.52	5.47	29.93	76.25	94.00	-17.75	Horizontal
6	2463	69.49	27.52	5.47	29.93	72.55	94.00	-21.45	Vertical

For spurious emission

(9KHz-30MHz)

Freq.	Reading	Limit	Margin	State	Test Result
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	
--	--	--	--	--	PASS
--	--	--	--	--	PASS

Note:

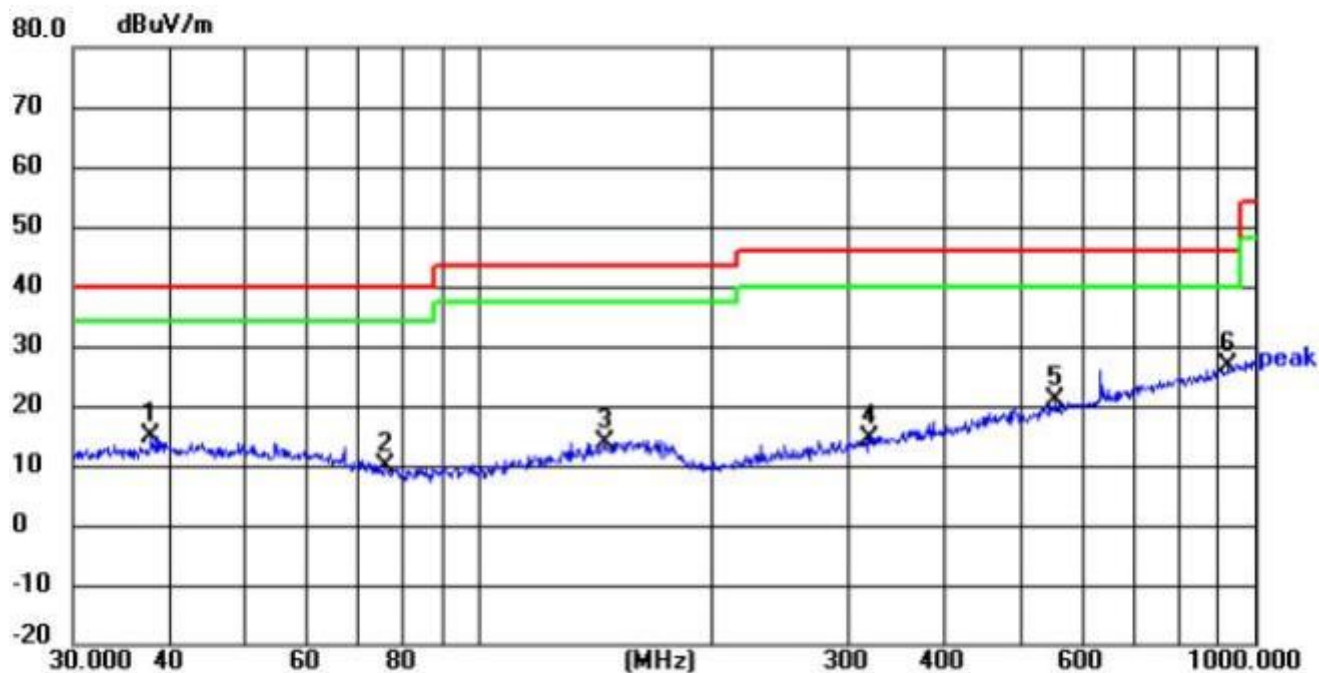
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance/test distance)(dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

(30MHz-1000MHz)

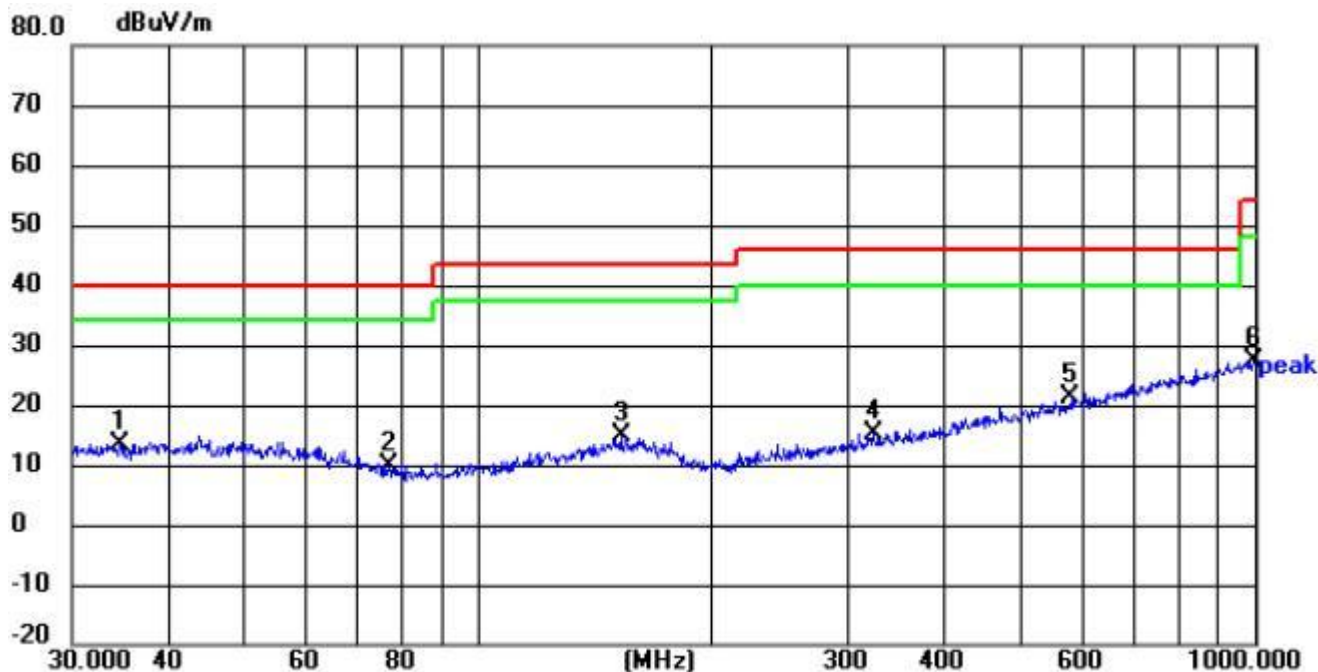
Temperature:	26°C	Relative Humidity:	54%
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	GFSK		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	37.8121	26.60	-11.77	14.83	40.00	-25.17	QP
2	75.7114	26.12	-16.14	9.98	40.00	-30.02	QP
3	145.3506	25.31	-11.70	13.61	43.50	-29.89	QP
4	318.8170	25.79	-11.16	14.63	46.00	-31.37	QP
5	554.8254	26.49	-5.66	20.83	46.00	-25.17	QP
6	925.7563	26.45	0.15	26.60	46.00	-19.40	QP

Note: 1. level= Reading level+ Factor, Margin=Measurement-Limit

Temperature:	26°C	Relative Humidity:	54%
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	GFSK		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34.6385	25.35	-12.10	13.25	40.00	-26.75	QP
2	76.7808	26.21	-16.27	9.94	40.00	-30.06	QP
3	152.6641	26.09	-11.37	14.72	43.50	-28.78	QP
4	322.1886	26.43	-11.10	15.33	46.00	-30.67	QP
5	578.6699	26.61	-5.43	21.18	46.00	-24.82	QP
6	996.4996	26.69	0.75	27.44	54.00	-26.56	QP

Note: 1. level= Reading level+ Factor, Margin=Measurement-Limit

(1GHz~25GHz)

Low CH, Peak

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4810.00	34.59	31.78	8.60	32.09	42.88	74	-31.12	Vertical
7215.00	32.58	36.15	11.65	32.00	48.38	74	-25.62	Vertical
9620.00	33.46	37.95	14.14	31.62	53.93	74	-20.07	Vertical
12025.00	*					74		Vertical
14430.00	*					74		Vertical
4810.00	37.19	31.78	8.60	32.09	45.48	74	-28.52	Horizontal
7215.00	32.38	36.15	11.65	32.00	48.18	74	-25.82	Horizontal
9620.00	31.51	37.95	14.14	31.62	51.98	74	-22.02	Horizontal
12025.00	*					74		Horizontal
14430.00	*					74		Horizontal

Low CH, AV

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4810.00	27.29	31.78	8.6	32.09	31.09	54	-22.91	Vertical
7215.00	19.43	36.15	11.65	32.00	35.23	54	-18.77	Vertical
9620.00	18.17	37.95	14.14	31.62	38.64	54	-15.36	Vertical
12025.00	*					54		Vertical
14430.00	*					54		Vertical
4810.00	31.31	31.78	8.6	32.09	39.6	54	-14.4	Horizontal
7215.00	21.25	36.15	11.65	32.00	37.05	54	-16.95	Horizontal
9620.00	18.36	37.95	14.14	31.62	38.83	54	-15.17	Horizontal
12025.00	*					54		Horizontal
14430.00	*					54		Horizontal

The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

Middle Peak

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4852	36.07	31.85	8.67	32.09	44.47	74	-29.53	Vertical
7278	30.28	36.37	11.72	32.00	46.48	74	-27.52	Vertical
9704	30.35	38.35	14.25	31.62	51.33	74	-22.67	Vertical
12130	*					74		Vertical
14556	*					74		Vertical
4852	40.49	31.85	8.67	32.09	48.89	74	-25.11	Horizontal
7278	32.18	36.37	11.72	32.00	48.38	74	-25.62	Horizontal
9704	32.26	38.35	14.25	31.62	53.24	74	-20.76	Horizontal
12130	*					74		Horizontal
14556	*					74		Horizontal

Middle AV

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4852	25.35	31.85	8.67	32.09	33.75	54	-20.25	Vertical
7278	20.28	36.37	11.72	32.00	36.48	54	-17.52	Vertical
9704	16.37	38.35	14.25	31.62	37.35	54	-16.65	Vertical
12130	*					54		Vertical
14556	*					54		Vertical
4852	27.64	31.85	8.67	32.09	36.04	54	-17.96	Horizontal
7278	21.11	36.37	11.72	32.00	37.31	54	-16.69	Horizontal
9704	20.23	38.35	14.25	31.62	41.21	54	-12.79	Horizontal
12130	*					54		Horizontal
14556	*					54		Horizontal

The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

High Peak

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4926	33.31	31.93	8.73	42.46	41.81	74	-32.19	Vertical
7389	32.13	36.59	11.79	49.38	48.73	74	-25.27	Vertical
9852	32.52	38.81	14.38	54.48	53.83	74	-20.17	Vertical
12315	*					74		Vertical
14778	*					74		Vertical
4926	37.88	31.93	8.73	47.03	46.38	74	-27.62	Horizontal
7389	33.67	36.59	11.79	50.92	50.27	74	-23.73	Horizontal
9852	31.25	38.81	14.38	53.21	52.56	74	-21.44	Horizontal
12315	*					74		Horizontal
14778	*					74		Horizontal

High AV

Frequency (MHz)	Reading (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4926	23.38	31.93	8.73	32.53	31.88	54	-22.12	Vertical
7389	17.49	36.59	11.79	34.74	34.09	54	-19.91	Vertical
9852	16.61	38.81	14.38	38.57	37.92	54	-16.08	Vertical
12315	*					54		Vertical
14778	*					54		Vertical
4926	31.83	31.93	8.73	40.98	40.33	54	-13.67	Horizontal
7389	21.77	36.59	11.79	39.02	38.37	54	-15.63	Horizontal
9852	18.99	38.81	14.38	40.95	40.3	54	-13.7	Horizontal
12315	*					54		Horizontal
14778	*					54		Horizontal

The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

5. BAND EDGE TEST

5.1 LIMIT

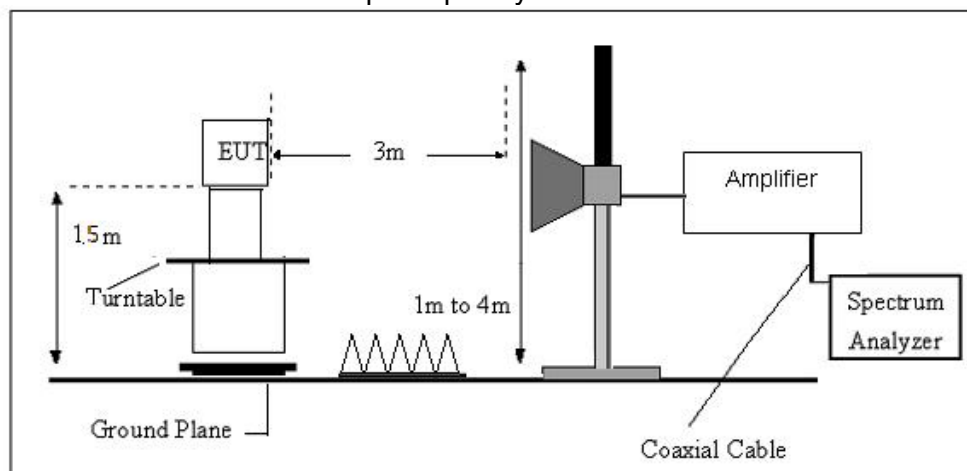
According to §15.249(d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 TEST PROCEDURE

- a. The EUT is placed on a turntable, which is 1.5m above ground plane.
- b. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
Use the following spectrum analyzer settings:
 - c. Span = wide enough to fully capture the emission being measured, RBW = 1 MHz, VBW $\geq$ RBW, Sweep = auto, Detector function = peak, Trace = max hold
Follow the guidelines in ANSI C63.4 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc.
- d. 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. Set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the duty cycle per channel of the hopping signal is less than 100 ms, then the reading obtained with
- e. the 10 Hz VBW may be further adjusted by a “duty cycle correction factor”, derived from $20\log(\text{duty cycle}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

5.3 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.4 TEST RESULTS

Low CH (GFSK)

Peak

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	38.88	27.61	5.36	30.18	41.67	74	-32.33	Horizontal
2390.00	37.90	27.59	5.38	30.18	40.69	74	-33.31	Horizontal
2400.00	53.02	27.58	5.39	30.18	55.81	74	-18.19	Horizontal
2310.00	35.91	27.61	5.36	30.18	38.7	74	-35.3	Vertical
2390.00	39.1	27.59	5.38	30.18	41.89	74	-32.11	Vertical
2400.00	44.03	27.58	5.39	30.18	46.82	74	-27.18	Vertical

Avg

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	32.82	27.61	5.36	30.18	35.61	54	-18.39	Horizontal
2390.00	27.93	27.59	5.38	30.18	30.72	54	-23.28	Horizontal
2400.00	40.98	27.58	5.39	30.18	43.77	54	-10.23	Horizontal
2310.00	32.63	27.61	5.36	30.18	35.42	54	-18.58	Vertical
2390.00	30.57	27.59	5.38	30.18	33.36	54	-20.64	Vertical
2400.00	39.31	27.58	5.39	30.18	42.1	54	-11.9	Vertical

High CH(GFSK)

Peak

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.83	27.53	5.47	29.93	40.90	74	-33.10	Horizontal
2500.00	39.89	27.55	5.49	29.93	43.00	74	-31.00	Horizontal
2483.50	42.62	27.53	5.47	29.93	45.69	74	-28.31	Vertical
2500.00	39.33	27.55	5.49	29.93	42.44	74	-31.56	Vertical

Avg

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	32.89	27.53	5.47	29.93	35.96	54	-18.04	Horizontal
2500.00	31.72	27.55	5.49	29.93	34.83	54	-19.17	Horizontal
2483.50	33.96	27.53	5.47	29.93	37.03	54	-16.97	Vertical
2500.00	29.21	27.55	5.49	29.93	32.32	54	-21.68	Vertical

Remark.

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor
- 2.The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.
- 3.All restriction band have been tested, and only the worst case is shown in report

6. 20 DB BANDWIDTH TEST

6.1 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

6.2 TEST PROCEDURE

- Check the calibration of the measuring instrument using either an internal calibrator or a
- known signal from an external generator
 - Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
 - Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

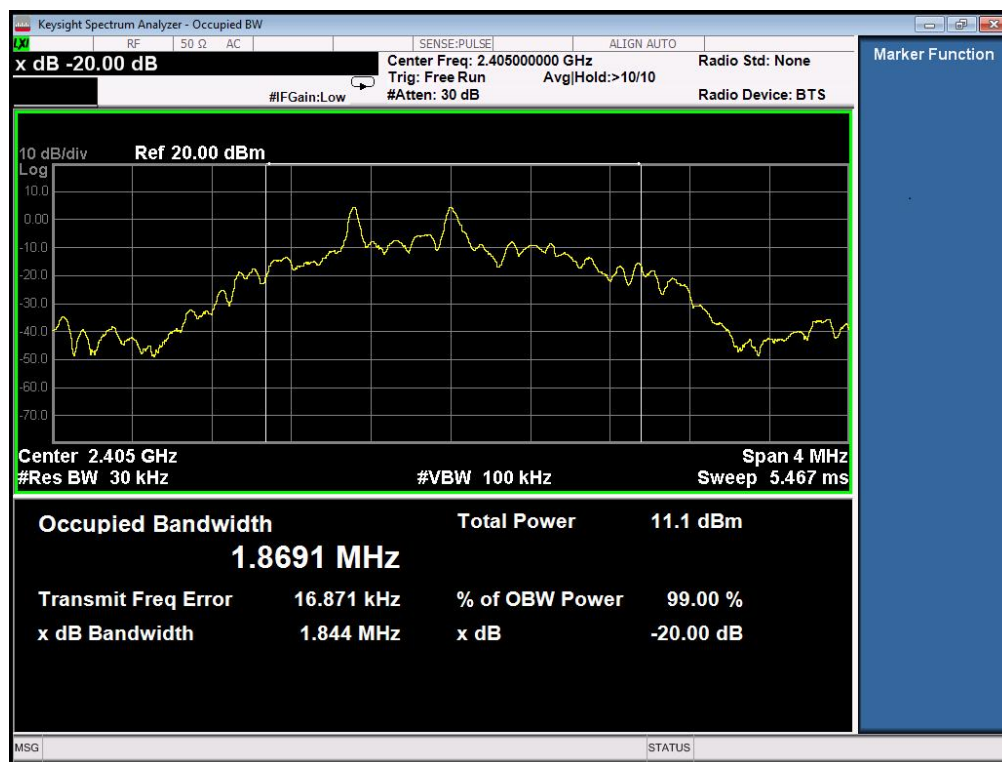
6.3 TEST SETUP



6.4 TEST RESULTS

Temperature:	25°C	Relative Humidity:	50%
Test Mode:	GFSK	Test Voltage:	DC 3.7V

Frequency	20dB Bandwidth (MHz)	99% Bandwidth (MHz)	Result
2405 MHz	1.8440	1.8691	PASS
2426 MHz	1.8480	1.8783	PASS
2463 MHz	1.8480	1.8814	PASS





7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

7.2 EUT ANTENNA

The antennas used for this product are PCB antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is -8.68dBi.

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