

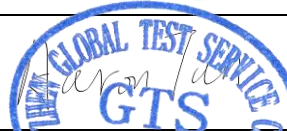
**Shenzhen Global Test Service Co.,Ltd.**

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

TEST REPORT**FCC Rules and Regulations Part PART 15.249****Report Reference No.....: GTS20201219008-1-1****FCC ID.....: 2AYHJ-M-1**

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Date of issue..... Dec.21, 2020**Testing Laboratory Name Shenzhen Global Test Service Co., Ltd.**

Address..... No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China

Applicant's name Dongguan Nuoyifan Technology Co.,Ltd.

Address Room 401, No.22, 3th Street, Jinqianling, Huangjiang Town, Dongguan, Guangdong

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Test item description Wireless Controller 2.4G

Trade Mark N/A

Manufacturer Dongguan Nuoyifan Technology Co.,Ltd.

Model/Type reference..... M-1

Listed Models N/A

Modulation GFSK

Frequency..... 2410-2468MHz

Ratings DC 3.7V From Battery and DV 5V From External circuit

Result..... **PASS**

TEST REPORT

Test Report No. :	GTS20201219008-1-1	Dec.21, 2020
		Date of issue

Equipment under Test : Wireless Controller 2.4G

Model /Type : M-1

Listed Models : N/A

Applicant : **Dongguan Nuoyifan Technology Co.,Ltd.**

Address : Room 401, No.22, 3th Street, Jinqianling, Huangjiang Town,
Dongguan, Guangdong

Manufacturer : **Dongguan Nuoyifan Technology Co.,Ltd.**

Address : Room 401, No.22, 3th Street, Jinqianling, Huangjiang Town,
Dongguan, Guangdong

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.249: Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz.

ANSI C63.10:2013 : American National Standard for Testing Unlicensed Wireless Devices

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 40GHz
Range of 9 kHz to 40GHz

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Dec.01, 2020
Testing commenced on	:	Dec.01, 2020
Testing concluded on	:	Dec.21, 2020

2.2. Product Description

Name of EUT	Wireless Controller 2.4G
Model Number	M-1
List Model:	N/A
Power Rating	DC 3.7V From Battery and DV 5V From External circuit
Adapter(Auxiliary test Provided by the laborator)	Mode:EP-TA20CBC Input:AC100-240V-50/60Hz, 0.5A Output:DC 5V,2A
Sample ID:	GTS20201219008-1-1-1#(Engineer sample) GTS20201219008-1-1-2#(Normal sample)
Operation frequency	2410-2468MHz
Modulation	GFSK(FHSS)
Antenna Type	PCB antenna
Antenna Gain	0dB(Max)

2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐ 230V / 50 Hz	☐ 120V / 60Hz
		☐ 12 V DC	☐ 24 V DC
		☒ Other (specified in blank below)	

DC 3.7V From Battery and DC 5V From external circuit

2.4. Short description of the Equipment under Test (EUT)

This is a Wireless Controller 2.4G

For more details, refer to the user's manual of the EUT.

2.5. EUT operation mode

The Applicant use Key to control the EUT for staying in continuous transmitting and receiving mode for testing .There is 30 channels provided to the EUT. Channel Low,Mid and High was selected to test.

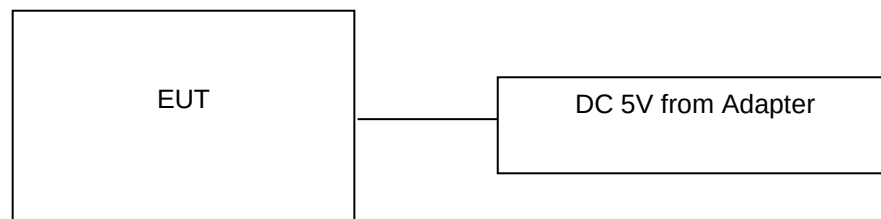
Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2410	16	2440
02	2412	17	2442
03	2414	18	2444
04	2416	19	2446

05	2418	20	2448
06	2420	21	2450
07	2422	22	2452
08	2424	23	2454
09	2426	24	2456
10	2428	25	2458
11	2430	26	2460
12	2432	27	2462
13	2434	28	2464
14	2436	29	2466
15	2438	30	2468

Test frequency:

Channel	Frequency (MHz)
Low	2410
Mid	2440
High	2468

2.6. Block Diagram of Test Setup



2.7. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. TEST FACILITY

Test Firm : Shenzhen Global Test Service Co., Ltd.

Address No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

3.2. Environmental conditions

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

Radiated Emission:

Temperature:	23 ° C
Humidity:	48 %
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

3.3. Summary of measurement results

FCC PART 15.249		
FCC Part 15.249(a)	Field Strength of Fundamental	PASS
FCC Part 15.209	Spurious Emission	PASS
FCC Part 15.209	Band edge	PASS
FCC Part 15.215(c)	20dB bandwidth	PASS
FCC Part 15.207	Conducted Emission	PASS
FCC Part 15.203	Antenna Requirement	PASS

3.4. Statement of the measurement uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty(9kHz-30MHz) = 3.08dB, k=2

Radiated emission expanded uncertainty(30MHz-1000MHz) = 4.42dB, k=2

Radiated emission expanded uncertainty(Above 1GHz) = 4.06dB, k=2

3.5. Equipments Used during the Test

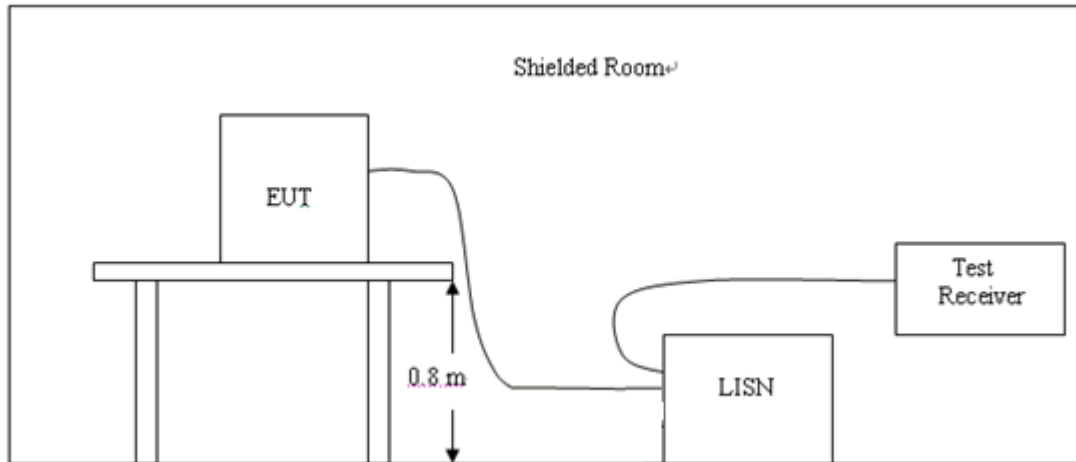
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	3560.6550.08	2020/09/19	2021/09/18
LISN	R&S	ESH2-Z5	893606/008	2020/09/19	2021/09/18
EMI Test Receiver	R&S	ESPI3	101841-cd	2020/09/19	2021/09/18
EMI Test Receiver	R&S	ESCI7	101102	2020/09/19	2021/09/18
Spectrum Analyzer	Agilent	N9020A	MY48010425	2020/09/19	2021/09/18
Spectrum Analyzer	R&S	FSV40	100019	2020/09/19	2021/09/18
Vector Signal generator	Agilent	N5181A	MY49060502	2020/09/19	2021/09/18
Signal generator	Agilent	E4421B	3610AO1069	2020/09/19	2021/09/18
Climate Chamber	ESPEC	EL-10KA	A20120523	2020/09/19	2021/09/18
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2020/09/19	2021/09/18
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2020/10/11	2021/10/10
Bilog Antenna	Schwarzbeck	VULB9163	000976	2020/05/26	2021/05/25
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2020/09/19	2021/09/18
Amplifier	Schwarzbeck	BBV 9743	#202	2020/09/19	2021/09/18
Amplifier	Schwarzbeck	BBV9179	9719-025	2020/09/19	2021/09/18
Amplifier	EMCI	EMC051845B	980355	2020/09/19	2021/09/18
Temperature/Humidity Meter	Gangxing	CTH-608	02	2020/09/19	2021/09/18
High-Pass Filter	K&L	9SH10-2700/X12750-O/O	KL142031	2020/09/19	2021/09/18
High-Pass Filter	K&L	41H10-1375/U12750-O/O	KL142032	2020/09/19	2021/09/18
RF Cable(below 1GHz)	HUBER+SUHNER	RG214	RE01	2020/09/19	2021/09/18
RF Cable(above 1GHz)	HUBER+SUHNER	RG214	RE02	2020/09/19	2021/09/18
Data acquisition card	Agilent	U2531A	TW53323507	2020/09/19	2021/09/18
Power Sensor	Agilent	U2021XA	MY5365004	2020/09/19	2021/09/18
Test Control Unit	Tonscend	JS0806-1	178060067	2020/06/19	2021/06/18
Automated filter bank	Tonscend	JS0806-F	19F8060177	2020/06/19	2021/06/18
EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	/	/
EMI Test Software	Tonscend	JS1120-3	Ver 2.5.77.0418	/	/
EMI Test Software	Tonscend	JS32-CE	Ver 2.5	/	/
EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/

Note: The Cal.Interval was one year.

4. TEST CONDITIONS AND RESULTS

4.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST RESULTS

Remark:

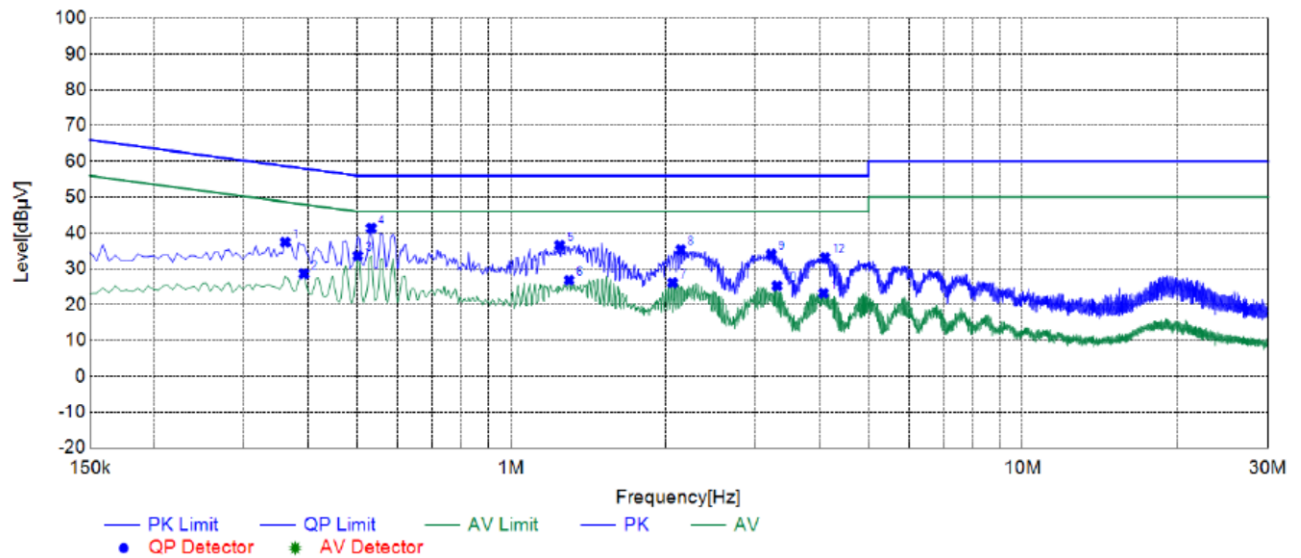
1. All modes of GFSK were tested at Low, Middle, and High channel; only the worst result of GFSK CH19 was reported as below:
2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:.

Power supply:

DC 5V From Adapter

Polarization

L

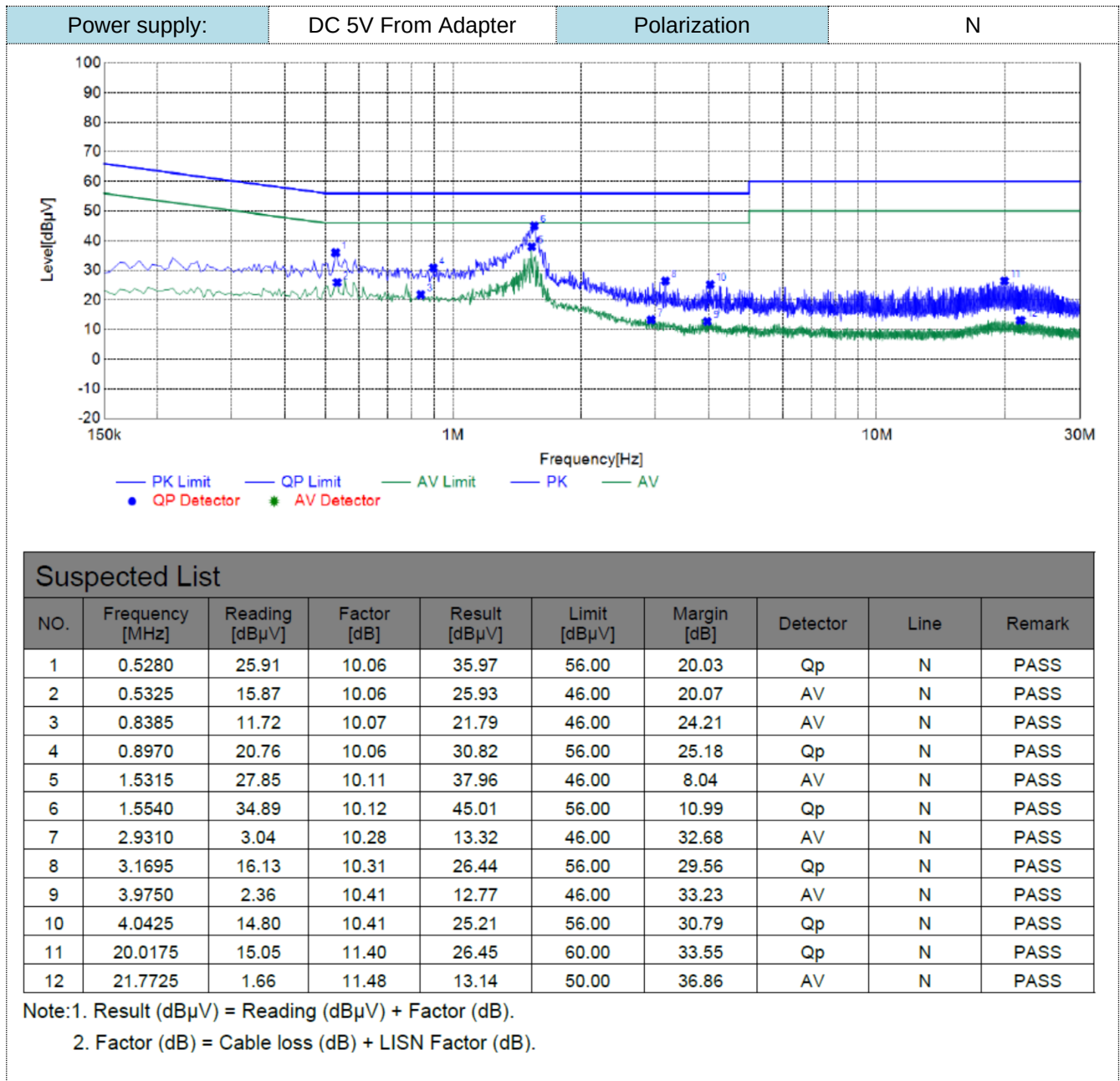


Suspected List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Result [dBμV]	Limit [dBμV]	Margin [dB]	Detector	Line	Remark
1	0.3615	27.40	10.01	37.41	58.69	21.28	Qp	L1	PASS
2	0.3930	18.62	10.02	28.64	48.00	19.36	AV	L1	PASS
3	0.5010	23.62	10.06	33.68	46.00	12.32	AV	L1	PASS
4	0.5325	31.27	10.06	41.33	56.00	14.67	Qp	L1	PASS
5	1.2435	26.47	10.09	36.56	56.00	19.44	Qp	L1	PASS
6	1.2975	16.77	10.09	26.86	46.00	19.14	AV	L1	PASS
7	2.0670	15.96	10.17	26.13	46.00	19.87	AV	L1	PASS
8	2.1435	25.15	10.17	35.32	56.00	20.68	Qp	L1	PASS
9	3.2235	23.77	10.31	34.08	56.00	21.92	Qp	L1	PASS
10	3.3090	14.92	10.33	25.25	46.00	20.75	AV	L1	PASS
11	4.0785	12.75	10.41	23.16	46.00	22.84	AV	L1	PASS
12	4.1100	22.79	10.41	33.20	56.00	22.80	Qp	L1	PASS

Note: 1. Result (dBμV) = Reading (dBμV) + Factor (dB).

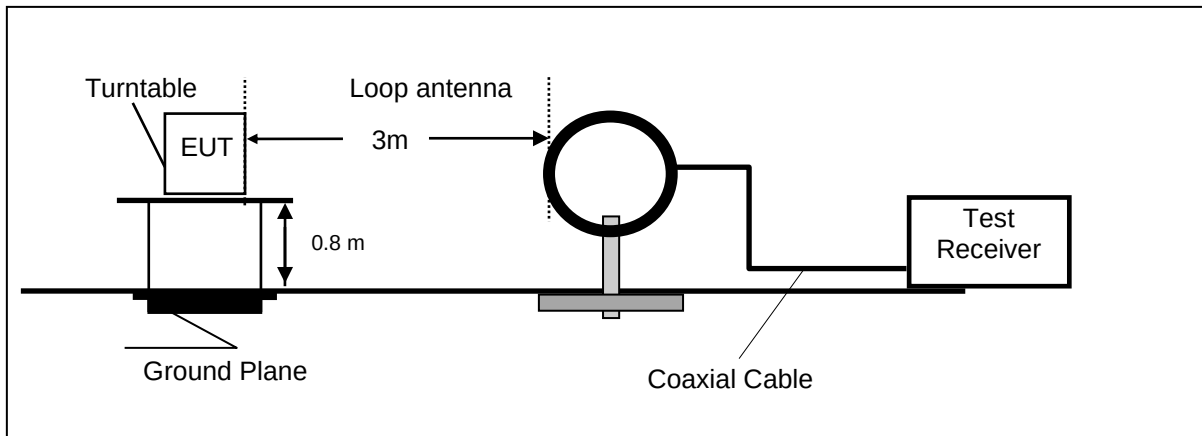
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).



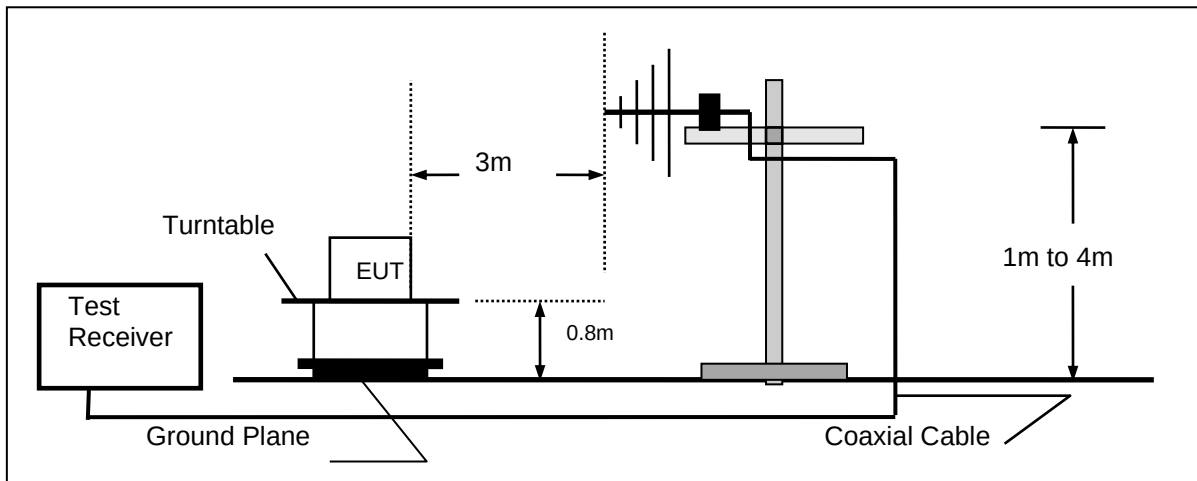
4.2. Radiated Emission and Band Edges

TEST CONFIGURATION

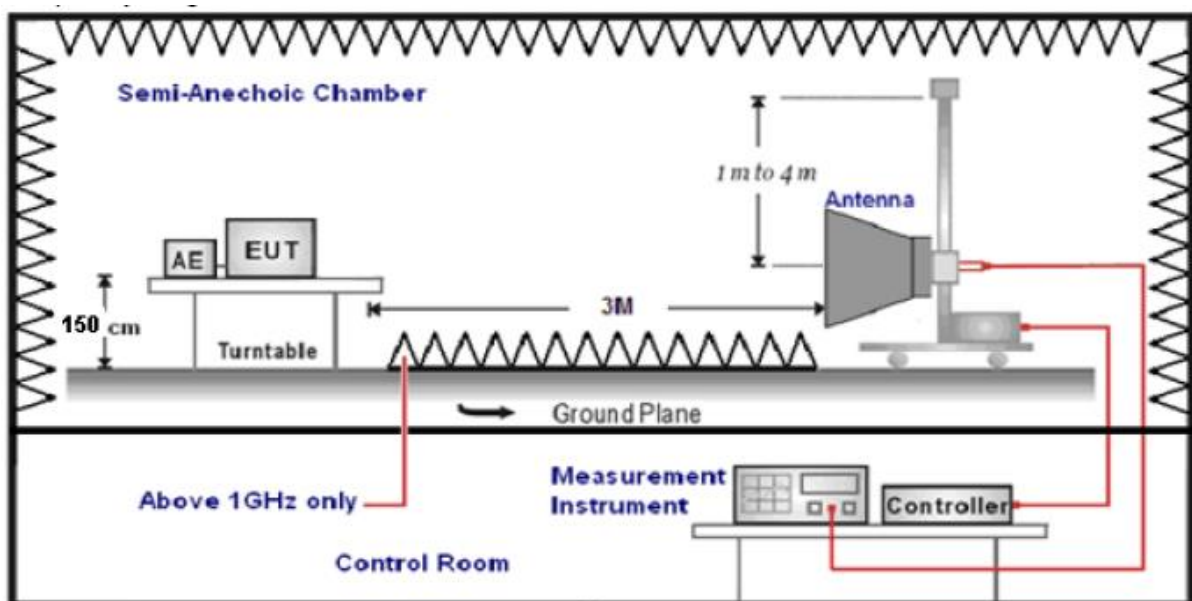
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C 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.
5. The EUT minimum operation frequency was 26MHz and maximum operation frequency was 1910MHz.so radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

$$\text{Transd}=AF +CL-AG$$

RADIATION LIMIT

According 15.249, the field strength of emissions from intentional radiators operated within 2400MHz-2483.5 MHz shall not exceed 94dBμV/m (50mV/m):

FCC PART 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.

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)

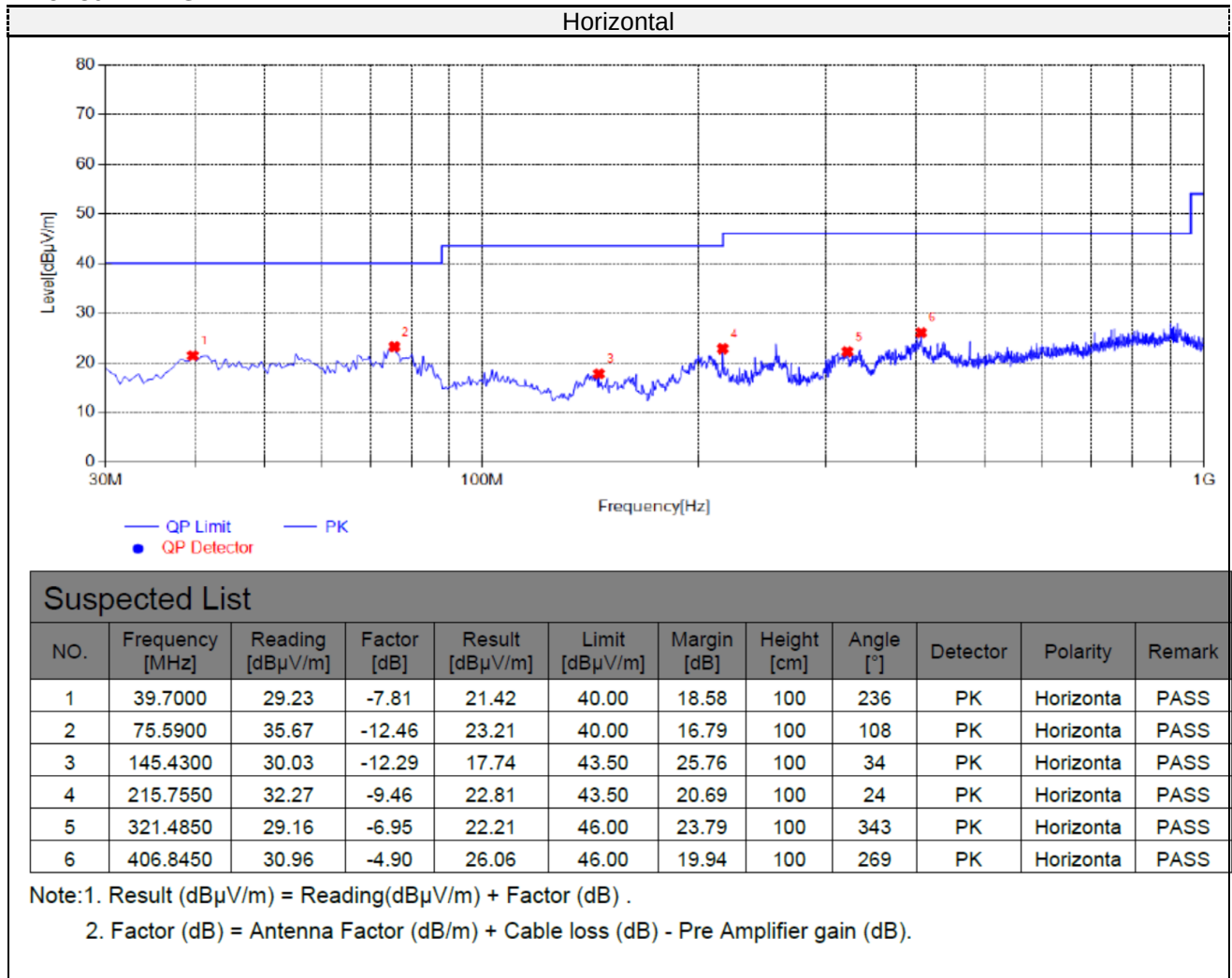
Radiated emission limits

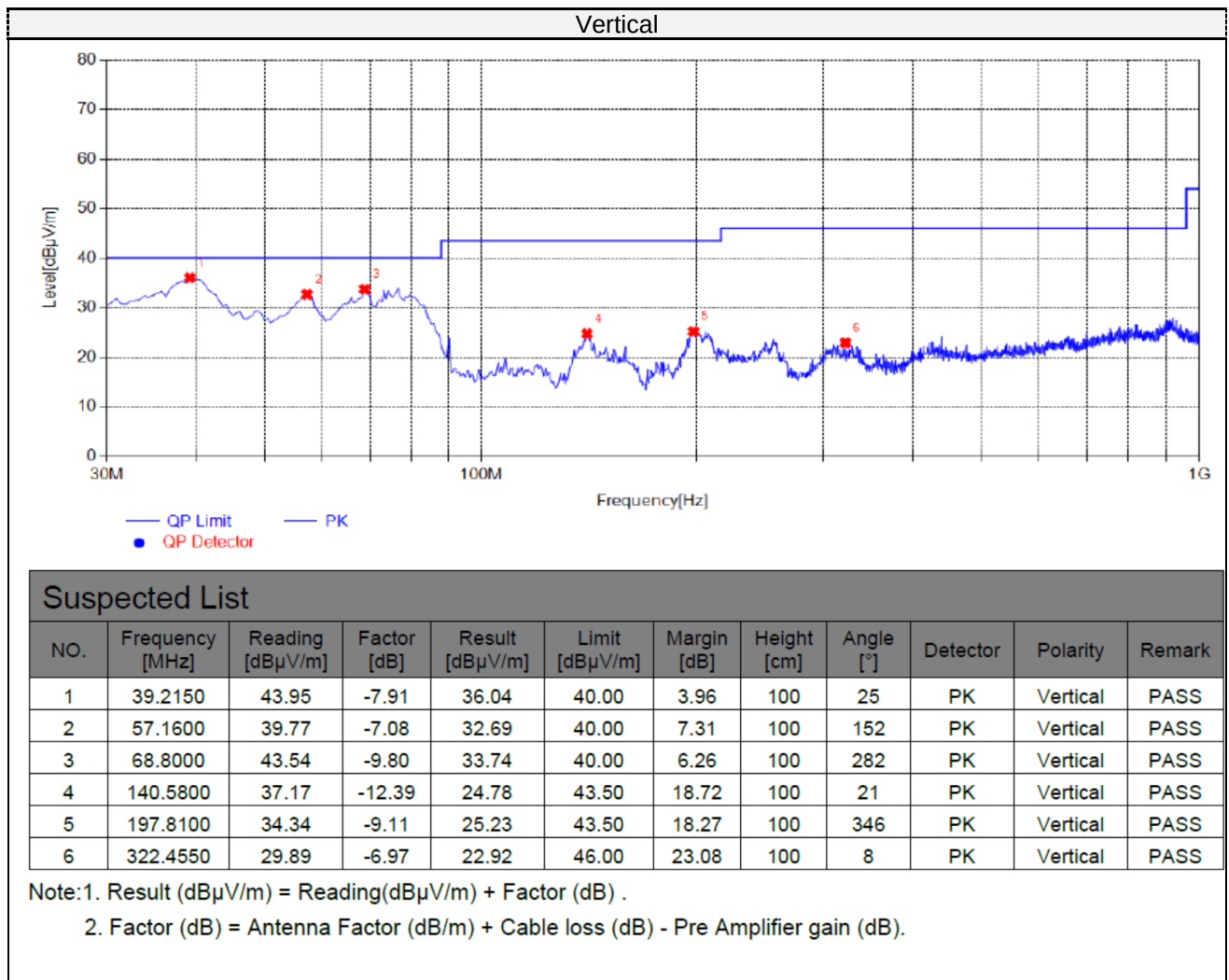
Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

Remark:

1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
2. Both modes of GFSK were tested at Low, Middle, and High channel and recorded worst mode at GFSK
3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

For 30MHz-1GHz



For 1GHz to 25GHz

GFSK (above 1GHz)

Frequency(MHz):			2410		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2410.00	96.83	PK	114	17.17	102.21	27.49	3.33	36.2	-5.38
2410.00	82.49	AV	94	11.51	87.87	27.49	3.33	36.2	-5.38
4820.00	57.91	PK	74	16.09	57.12	30.28	7.01	36.5	0.79
4820.00	45.12	AV	54	8.88	44.33	30.28	7.01	36.5	0.79
7230.00	55.85	PK	74	18.15	45.65	36.59	8.91	35.3	10.2
7230.00	41.29	AV	54	12.71	31.09	36.59	8.91	35.3	10.2

Frequency(MHz):			2410		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2410.00	100.29	PK	114	13.71	105.67	27.49	3.33	36.2	-5.38
2410.00	82.75	AV	94	11.25	88.13	27.49	3.33	36.2	-5.38
4820.00	58.91	PK	74	15.09	58.12	30.28	7.01	36.5	0.79
4820.00	45.97	AV	54	8.03	45.18	30.28	7.01	36.5	0.79
7230.00	56.09	PK	74	17.91	45.89	36.59	8.91	35.3	10.2
7230.00	42.26	AV	54	11.74	32.06	36.59	8.91	35.3	10.2

Frequency(MHz):			2440		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2440.00	97.86	PK	114	16.14	103.24	27.47	3.35	36.2	-5.38
2440.00	81.23	AV	94	12.77	86.61	27.47	3.35	36.2	-5.38
4880.00	59.18	PK	74	14.82	57.12	30.98	7.58	36.5	2.06
4880.00	44.17	AV	54	9.83	42.11	30.98	7.58	36.5	2.06
7320.00	56.73	PK	74	17.27	45.81	37.66	8.56	35.3	10.92
7320.00	41.2	AV	54	12.8	30.28	37.66	8.56	35.3	10.92

Frequency(MHz):			2440		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2440.00	102.5	PK	114	11.5	107.88	27.47	3.35	36.2	-5.38
2440.00	84.18	AV	94	9.82	89.56	27.47	3.35	36.2	-5.38
4880.00	60.03	PK	74	13.97	57.97	30.98	7.58	36.5	2.06
4880.00	46.08	AV	54	7.92	44.02	30.98	7.58	36.5	2.06
7320.00	57.03	PK	74	16.97	46.11	37.66	8.56	35.3	10.92
7320.00	41.9	AV	54	12.1	30.98	37.66	8.56	35.3	10.92

Frequency(MHz):			2468		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2468.00	96.93	PK	114	17.07	102.31	27.45	3.37	36.2	-5.38
2468.00	80.45	AV	94	13.55	85.83	27.45	3.37	36.2	-5.38
4936.00	59.02	PK	74	14.98	56.85	30.43	7.94	36.2	2.17
4936.00	44.50	AV	54	9.50	42.33	30.43	7.94	36.2	2.17
7404.00	56.76	PK	74	17.24	46.83	36.78	8.45	35.3	9.93
7404.00	41.25	PK	54	12.75	31.32	36.78	8.45	35.3	9.93

Frequency(MHz):			2468		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2468.00	99.41	PK	114	14.59	104.79	27.45	3.37	36.2	-5.38
2468.00	80.84	AV	94	13.16	86.22	27.45	3.37	36.2	-5.38
4936.00	59.23	PK	74	14.77	57.06	30.43	7.94	36.2	2.17
4936.00	46.78	AV	54	7.22	44.61	30.43	7.94	36.2	2.17
7404.00	57.76	PK	74	16.24	47.83	36.78	8.45	35.3	9.93
7404.00	42.12	PK	54	11.88	32.19	36.78	8.45	35.3	9.93

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier
3. Margin value = Limit value- Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. The other emission levels were very low against the limit.

Results of Band Edges Test (Radiated)**GFSK**

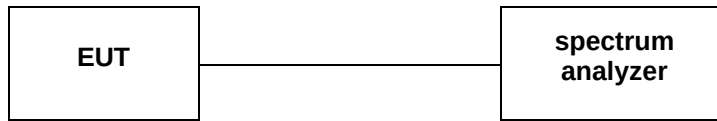
Frequency(MHz):			2402		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390.00	57.35	PK	74	16.65	62.76	27.49	3.32	36.22	-5.41
2390.00	40.77	AV	54	13.23	46.18	27.49	3.32	36.22	-5.41
Frequency(MHz):			2402		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390.00	57.61	PK	74	16.39	63.02	27.49	3.32	36.22	-5.41
2390.00	41.16	AV	54	12.84	46.57	27.49	3.32	36.22	-5.41
Frequency(MHz):			2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.50	56.81	PK	74	17.19	62.32	27.45	3.38	36.34	-5.51
2483.50	41.18	AV	54	12.82	46.69	27.45	3.38	36.34	-5.51
Frequency(MHz):			2480		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.50	56.96	PK	74	17.04	62.47	27.45	3.38	36.34	-5.51
2483.50	41.28	AV	54	12.72	46.79	27.45	3.38	36.34	-5.51

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier
3. Margin value = Limit value- Emission level.
4. -- Mean the PK detector measured value is below average limit.

4.3. 20dB Bandwidth Measurement

TEST CONFIGURATION



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 30KHz RBW and 300KHz VBW.

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

LIMIT

N/A

TEST RESULTS

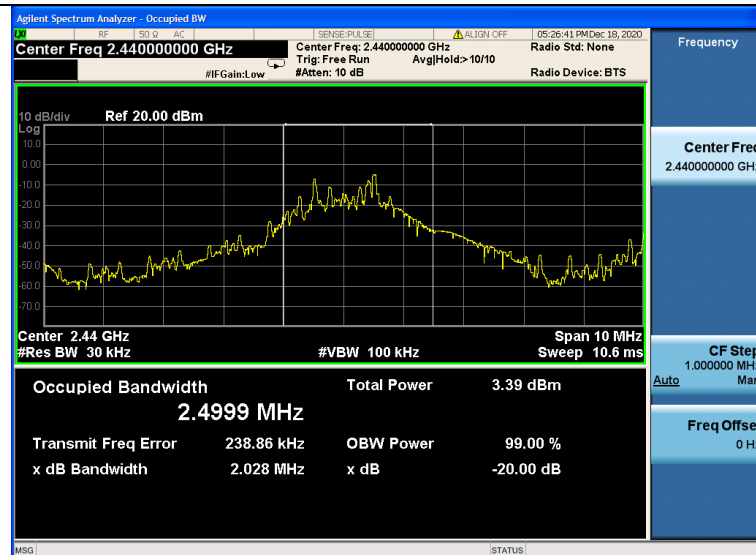
Modulation	Channel	20dB bandwidth (MHz)	Result
GFSK	Low	1.871	PASS
	Mid	2.028	
	High	1.915	

Note: 1.The test results including the cable lose.

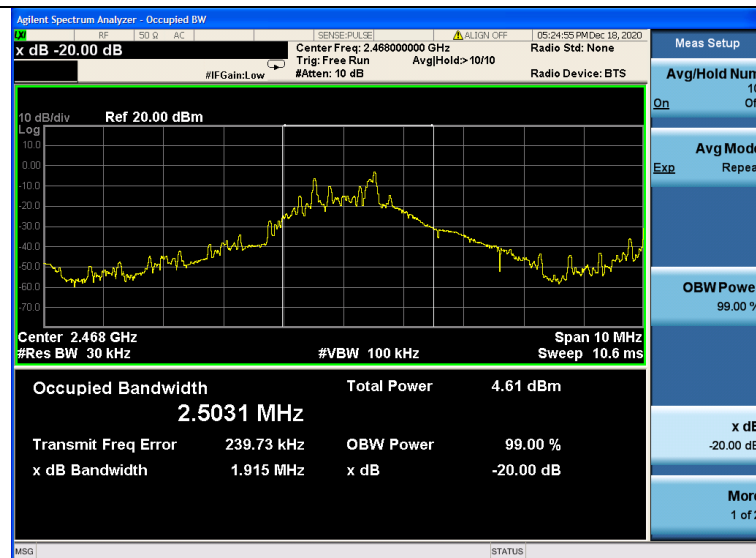
GFSK



CH01



CH16



CH30

4.4. Antenna Requirement

Standard Applicable

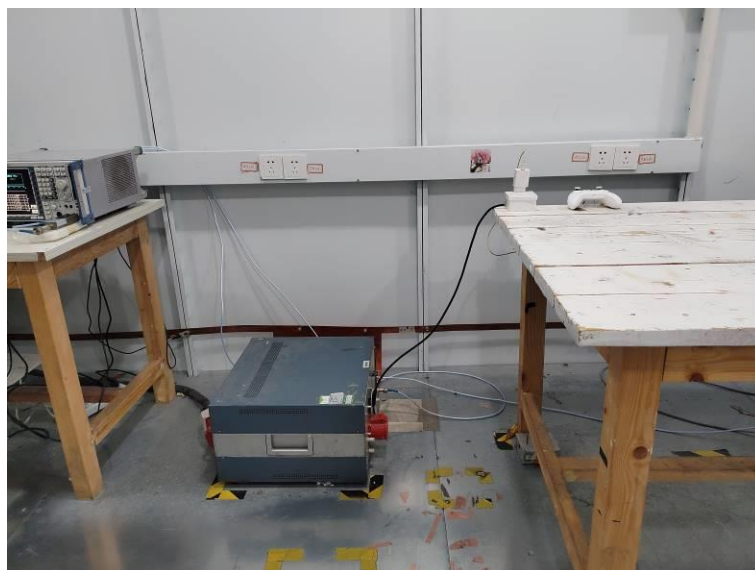
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (c), 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.

Antenna Information

The directional gains of antenna used for transmitting is 0.00 dBi.

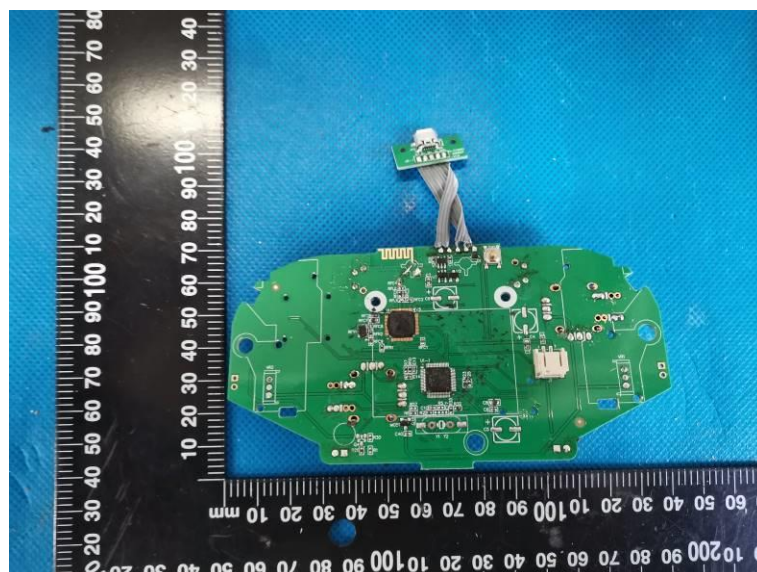
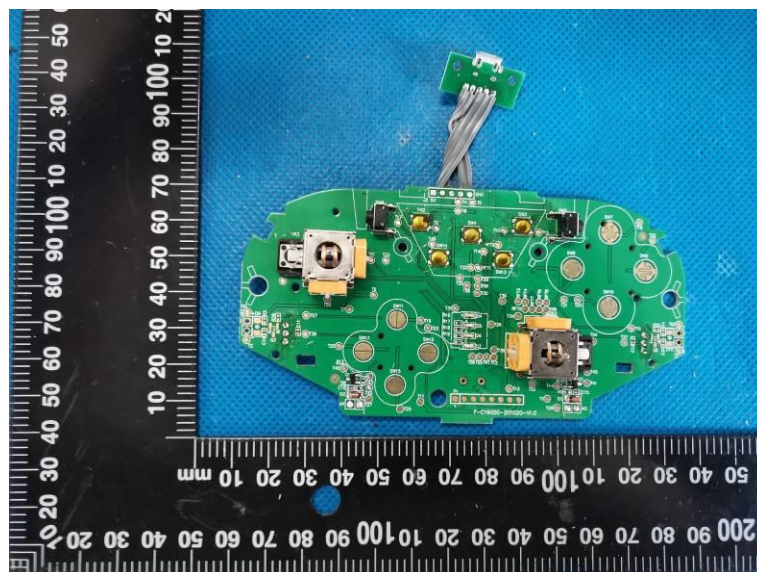
5. Test Setup Photos of the EUT

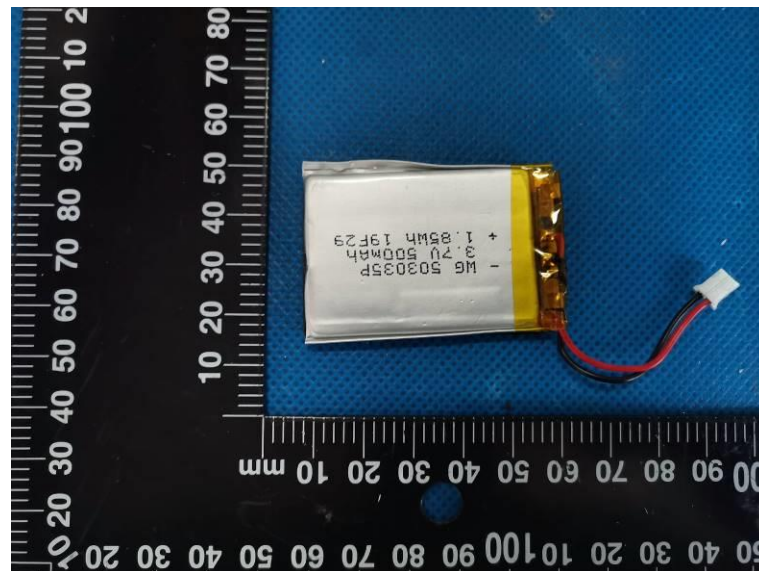


6. Test Photos of the EUT









.....End of Report.....