

Maxla Report No.: MAX25040192P01-R01

Report Reference No. : MAX25040192P01-R01 FCC ID. : 2BPIX-YY-A46 Compiled by (position+printed name+signature): Engineer/ Cindy Zheng Cindy Zheng Supervised by (position+printed name+signature): Manager/Haley Wen Haley Wen Approved by (position+printed name+signature): RF Manager/ Vivian Jiang Vivin Jieref Date of issue : May 26, 2025 Testing Laboratory Name : MAXLAB Testing Co.,Ltd. Address : MaxLAB Testing Co.,Ltd. Applicant's name : Guangzhou Yongyi Industrial Co., Ltd. Address : No. 4 Majun Street, Makecun, Dongchong Town, Nansha District Guangzhou City, China Test specification : Standard : FCC Part 15.247 MAXLAB Testing Co.,Ltd. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the MAXLAB Testing Co.,Ltd is acknowledged as copyright owner and source of the material. MAXLAB Testing Co.,Ltd is acknowledged as copyright owner and source of the material. MAXLAB Testing Co.,Ltd is acknowledged as copyright owner and source of the material. MAXLAB Testing Co.,Ltd is acknowledged as copyright owner and context. Equipment description : wearable electric Breast pump	Banart Bafaranaa Na	· MAX25040102D04 D01	
Compiled by (position+printed name+signature): Engineer/ Cindy Zheng Cindy Zheng Supervised by (position+printed name+signature): Manager/Haley Wen Haley Wen Approved by (position+printed name+signature): RF Manager/Vivian Jiang Haley Wen Date of issue May 26, 2025 Testing Laboratory Name MAXLAB Testing Co.,Ltd. Address 1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District, Shenzhen, Guangzhou Yongyi Industrial Co., Ltd. Address 1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District, Shenzhen, Guangzhou Yongyi Industrial Co., Ltd. Address No. 4 Majun Street, Makecun, Dongchong Town, Nansha District Guangzhou City, China Test specification : Standard FCC Part 15.247 MAXLAB Testing Co.,LtdAll rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the MAXLAB Testing Co.,LtdIs acknowledged as copyright owner and source of the material. MAXLAB Testing Co.,Ltdtka exchowledged as copyright owner and source of the material. MAXLAB Teade Mark Kidro Manufacturer : Guangzhou Yongyi Industrial Co., Ltd. Modulation : GFSK Frequency From 2402MHz to 2480MHz Rating : DC 3.7V From Battery or DC 5V by USB port <th>-</th> <th></th> <th></th>	-		
Approved by (position+printed name+signature): RF Manager/ Vivian Jiang Vivian Jiang Date of issue	Committeed have		Cindy theng
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Testing Laboratory Name MAXLAB Testing Co.,Ltd. Address 1/F, Building B, Xinshidai GR Park,Shiyan Street, Bao'an District, Shenzhen,Guangdong, 518052, People's Republic of China Applicant's name Guangzhou Yongyi Industrial Co., Ltd. Address No. 4 Majun Street, Makecun, Dongchong Town, Nansha District Guangzhou City, China Test specification : Standard : FCC Part 15.247 MAXLAB Testing Co.,LtdAll rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the MAXLAB Testing Co.,Ltd is acknowledged as copyright owner and source of the material. MAXLAB Testing Co.,Ltd takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Equipment description : wearable electric Breast pump Trade Mark Kidro Manufacturer : Guangzhou Yongyi Industrial Co., Ltd. Model/Type reference : YY-A46 Listed Models : N/A Modulation : GFSK Frequency From 2402MHz to 2480MHz Rating : DC 3.7V From Battery or DC 5V by USB port	Approved by (position+printed name+sign	ature): RF Manager/ Vivian Jiang	Vivian Jian
Address 1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District, Shenzhen, Guangdong, 518052, People's Republic of China Applicant's name. Guangzhou Yongyi Industrial Co., Ltd. Address. No. 4 Majun Street, Makecun, Dongchong Town, Nansha District Guangzhou City, China Test specification. : Standard. : FCC Part 15.247 MAXLAB Testing Co.,LtdAll rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the MAXLAB Testing Co.,Ltd is acknowledged as copyright owner and source of the material. MAXLAB Testing Co.,Ltd takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Equipment description: : wearable electric Breast pump Trade Mark. : Kidro Manufacturer : YY-A46 Listed Models : N/A Modulation : GFSK Frequency	Date of issue	: May 26, 2025	V
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Address No. 4 Majun Street, Makecun, Dongchong Town, Nansha District Guangzhou City, China Test specification : Standard	Address		Shiyan Street, Bao'an District, ople's Republic of China
Final Production Guangzhou City, China Test specification : Standard : MAXLAB Testing Co.,LtdAll rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the MAXLAB Testing Co.,Ltd is acknowledged as copyright owner and source of the material. MAXLAB Testing Co.,Ltd is acknowledged as copyright owner and source of the material. MAXLAB Testing Co.,Ltd takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. Equipment description : wearable electric Breast pump Trade Mark : Kidro Manufacturer : Guangzhou Yongyi Industrial Co., Ltd. Model/Type reference : YY-A46 Listed Models : N/A Modulation : GFSK Frequency. From 2402MHz to 2480MHz Rating : DC 3.7V From Battery or DC 5V by USB port	Applicant's name	Guangzhou Yongyi Industrial Co	., Ltd.
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TEST REPORT

Equipment under Test	N3X10	wearable electric Breast pump
Model /Type	:	YY-A46
Listed Models		N/A atlab atlab atlab
Model Declaration	Ma	N/A
Applicant	:	Guangzhou Yongyi Industrial Co., Ltd.
Address	War	No. 4 Majun Street, Makecun, Dongchong Town, Nansha District, Guangzhou City, China
Manufacturer	N	Guangzhou Yongyi Industrial Co., Ltd.
Address	Mar	No. 4 Majun Street, Makecun, Dongchong Town, Nansha District, Guangzhou City, China

Test Result:

PASS

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 <u>TEST STANDARDS</u>

The tests were performed according to following standards:

<u>FCC Rules Part 15.247</u>: 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. <u>ANSI C63.10-2020</u>: American National Standard for Testing Unlicensed Wireless Devices

KDB558074 D01 V05r02: Guidance for Performing Compliance Measurements on Digital Transmission

Systems (DTS) Operating Under §15.247



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2 <u>SUMMARY</u>

2.1 General Remarks

Date of receipt of test sample	:	May 12, 2025	
Testing commenced on	:	May 12, 2025	
0 0		0 0	
Testing concluded on	12	May 26, 2025	

2.2 Product Description

Product Description:	wearable electric Breast pump
Model/Type reference:	YY-A46
Power supply:	DC 3.7V From Battery or DC 5V by USB port
Hardware Version:	1.137 1.37 1.37 1.37
Software Version:	1 h. h. h. h.
Testing sample ID:	MAX25040192P01-R01-1# (Engineer sample), MAX25040192P01-R01-2# (Normal sample)
Bluetooth BLE	
Supported type:	Bluetooth low Energy
Modulation:	GFSK
Operation frequency:	2402MHz to 2480MHz
Channel number:	40
Channel separation:	2 MHz
Antenna type:	PCB Antenna
Antenna gain:	0.07 dBi

2.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	0	230V / 50 Hz	0	120V / 60Hz
		0	12 V DC	0	24 V DC
0 0	N N	•	Other (specified in blank bel	ow	
A 12-	19.		DC 3.7V From Battery	<u> </u>	13-

2.4 Short description of the Equipment under Test (EUT)

This is a wearable electric Breast pump. For more details, refer to the user's manual of the EUT.



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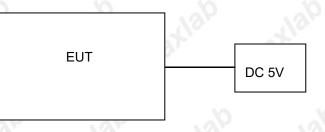
2.5 EUT operation mode

The Applicant provides communication tools software(Engineer mode) to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 40 channels provided to the EUT and Channel 00/19/39 were selected to test.

Operation Frequency:

Channel		Frequency (MHz)		
00		2402		
01	at	2404	1	
02	N.C.	2406	0	
	1.			
19		2440		
90 90 90		90 : 90 : 90		
37		2476	1	
38	.13	2478	3	
39		2480		

2.6 Block Diagram of Test Setup



2.7 Related Submittal(s) / Grant (s)

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

2.8 Modifications

No modifications were implemented to meet testing criteria.



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3 <u>TEST ENVIRONMENT</u>

3.1 Address of the test laboratory

MAXLAB Testing Co.,Ltd.

1/F, Building B, Xinshidai GR Park,Shiyan Street, Bao'an District, Shenzhen,Guangdong, 518052, People's Republic of China

3.2 Test Facility

FCC-Registration No.: 562200 Designation Number: CN1338

MAXLAB Testing Co.,Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

Industry Canada Registration Number. Is: 11093A CAB identifier: CN0019

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

A2LA-Lab Cert. No.: 4707.01

MAXLAB Testing Co.,Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

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

Temperature:	23 ° C
1.9, 1.9,	1.3.
Humidity:	44 %
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing:

24 ° C
47 %
950-1050mbar

Conducted testing:

<u> </u>	
Temperature:	24 ° C
h, h .	A_{i}
Humidity:	46 %
Atmospheric pressure:	950-1050mbar



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Test Specification clause	Test case	Test Mode	Test Channel		ecorded Report	Test result
§15.247(e)	Power spectral density	BLE 1Mpbs	 ☑ Lowest ☑ Middle ☑ Highest 	BLE 1Mpbs	⊠ Lowest ⊠ Middle ⊠ Highest	complies
§15.247(a)(2)	Spectrum bandwidth – 6 dB bandwidth	BLE 1Mpbs	 ☑ Lowest ☑ Middle ☑ Highest 	BLE 1Mpbs	 ☑ Lowest ☑ Middle ☑ Highest 	complies
§15.247(b)(3)	Maximum output Peak power	BLE 1Mpbs	☑ Lowest☑ Middle☑ Highest	BLE 1Mpbs	☑ Lowest☑ Middle☑ Highest	complies
§15.247(d)	Band edge compliance conducted	BLE 1Mpbs	⊠ Lowest ⊠ Highest	BLE 1Mpbs	⊠ Lowest ⊠ Highest	complies
§15.205	Band edge compliance radiated	BLE 1Mpbs	⊠ Lowest ⊠ Highest	BLE 1Mpbs	⊠ Lowest ⊠ Highest	complies
§15.247(d)	TX spurious emissions conducted	BLE 1Mpbs	 ☑ Lowest ☑ Middle ☑ Highest 	BLE 1Mpbs	 ☑ Lowest ☑ Middle ☑ Highest 	complies
§15.247(d)	TX spurious emissions radiated	BLE 1Mpbs	 ☑ Lowest ☑ Middle ☑ Highest 	BLE 1Mpbs	⊠ Lowest ⊠ Middle ⊠ Highest	complies
§15.209(a)	TX spurious Emissions radiated Below 1GHz	BLE 1Mpbs	-1- 13	BLE 1Mpbs	Max	complies
§15.107(a) §15.207	Conducted Emissions < 30 MHz	BLE 1Mpbs		BLE 1Mpbs	-/-	N/A

3.4 Summary of measurement results

Remark:

1. The measurement uncertainty is not included in the test result.

2. We tested all test mode and recorded worst case in report

3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment (ERM);Uncertainties in the measurement of mobile radio equipment (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the MAXLAB Testing Co.,Ltd..quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for MAXLAB Testing Co.,Ltd ..:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.82 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Transmitter power conducted	1~40GHz	0.57 dB	(1)
Conducted spurious emission	1~40GHz	1.60 dB	(1)
OBW	1~40GHz	25 Hz	(1)
PSD	1~40GHz	0.01 dBm/3KHz	(1)

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



3.6 Equipments Used during the Test

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Test Equipment	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	MAX252	2024-10-28	2025-10-27
EMI Test Receiver	R&S	ESCI 7	MAX552	2024-10-28	2025-10-27
Coaxial Switch	ANRITSU CORP	MP59B	MAX225	2024-10-28	2025-10-27
ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	MAX226	2024-10-28	2025-10-27
Coaxial Cable	MAX	N/A	MAX227	N/A	N/A
EMI Test Software	AUDIX	E3	N/A	N/A	N/A
Thermo meter	KTJ	TA328	MAX233	2024-10-28	2025-10-27
Absorbing clamp	Elektronik- Feinmechanik	MDS21	MAX229	2024-10-28	2025-10-27
LISN	R&S	ENV216	308	2024-10-28	2025-10-27
LISN	R&S	ENV216	314	2024-10-28	2025-10-27

Test Equipment	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	MAX250	2024-10-28	2025-10-27
Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	MAX251	N/A	N/A
EMI Test Receiver	Rohde & Schwarz	ESU26	MAX203	2024-10-28	2025-10-27
BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	MAX214	2024-10-28	2025-10-27
3m Semi- Anechoic ChamberZhControl RoomZhEMI Test ReceiverRoBiConiLog AntennaMESDouble -ridgedMESDouble -ridged hornMESHorn AntennaEEMI Test SoftwareCoaxial CableCoaxial CableCoaxial CableCoaxial CableAmplifier(100kHz- 3GHz)Amplifier(2GHz- 20GHz)RoAmplifier (18-26GHz)RoPower MeterPower SensorWideband Radio 	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	MAX208	2024-10-28	2025-10-27
	ETS-LINDGREN	3160	MAX217	2024-10-28	2025-10-27
	AUDIX	E3	N/A	N/A	N/A
Coaxial Cable	MAX	N/A	MAX213	2024-10-28	2025-10-27
Coaxial Cable	MAX	N/A	MAX211	2024-10-28	2025-10-27
	MAX	N/A	MAX210	2024-10-28	2025-10-27
Coaxial Cable	MAX	N/A	MAX212	2024-10-28	2025-10-27
	HP 18	8347A	MAX204	2024-10-28	2025-10-27
	HP	84722A	MAX206	2024-10-28	2025-10-27
Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	MAX218	2024-10-28	2025-10-27
Band filter	Amindeon	82346	MAX219	2024-10-28	2025-10-27
Power Meter	Anritsu	ML2495A	MAX540	2024-10-28	2025-10-27
Power Sensor	Anritsu	MA2411B	MAX541	2024-10-28	2025-10-27
	Rohde & Schwarz	CMW500	MAX575	2024-10-28	2025-10-2
Splitter	Agilent	11636B	MAX237	2024-10-28	2025-10-27

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Loop Antenna	ZHINAN	ZN30900A	MAX534	2024-10-28	2025-10-27
Breitband hornantenne	SCHWARZBECK	BBHA 9170	MAX579	2024-10-28	2025-10-27
Amplifier	TDK	PA-02-02	MAX574	2024-10-28	2025-10-27
Amplifier	TDK	PA-02-03	MAX576	2024-10-28	2025-10-27
PSA Series Spectrur Analyzer	n Rohde & Schwarz	FSP	MAX578	2024-10-28	2025-10-27
120		0,0	9	Q.	

Test Equipment	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
MXA Signal Analyzer	Agilent	N9020A	MAX566	2024-10-28	2025-10-2
EMI Test Receiver	R&S	ESCI 7	MAX552	2024-10-28	2025-10-2
Spectrum Analyzer	Agilent	E4440A	MAX533	2024-10-28	2025-10-2
MXG vector Signal Generator	Agilent	N5182A	MAX567	2024-10-28	2025-10-2
ESG Analog Signal Generator	Agilent	E4428C	MAX568	2024-10-28	2025-10-2
USB RF Power Sensor	DARE	RPR3006W	MAX569	2024-10-28	2025-10-2
RF Switch Box	Shongyi	RFSW3003328	MAX571	2024-10-28	2025-10-2
Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	MAX572	2024-10-28	2025-10-2
Jab	130	30 130	130	130	N

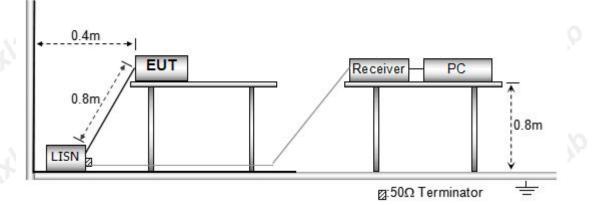


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4 TEST CONDITIONS AND RESULTS

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 C63.10-2020.

2 Support equipment, if needed, was placed as per ANSI C63.10-2020

3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2020

4 The EUT received power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz 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. 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

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

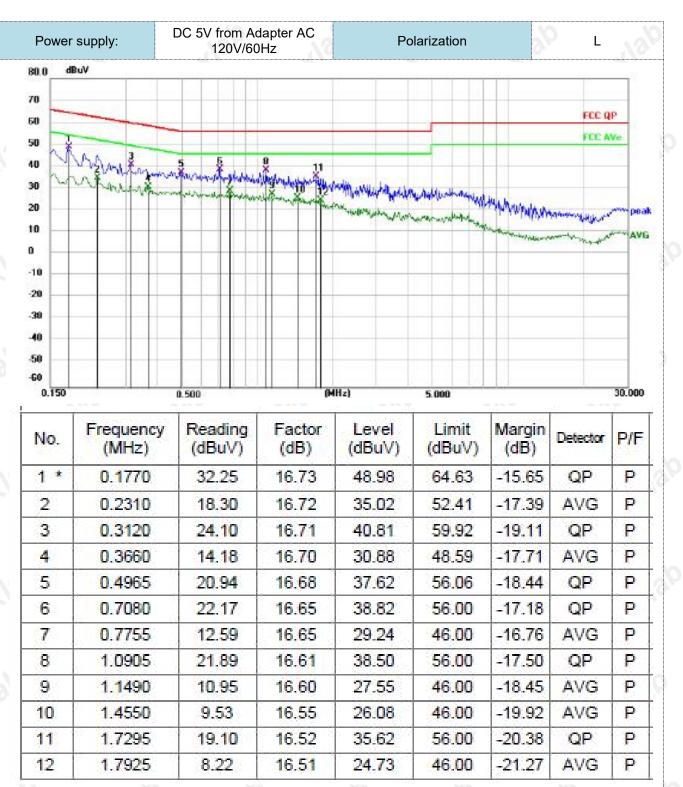
Limit (d	IBuV)
Quasi-peak	Average
66 to 56*	56 to 46*
56	46
60	50
	Quasi-peak 66 to 56* 56

* Decreases with the logarithm of the frequency.

TEST RESULTS



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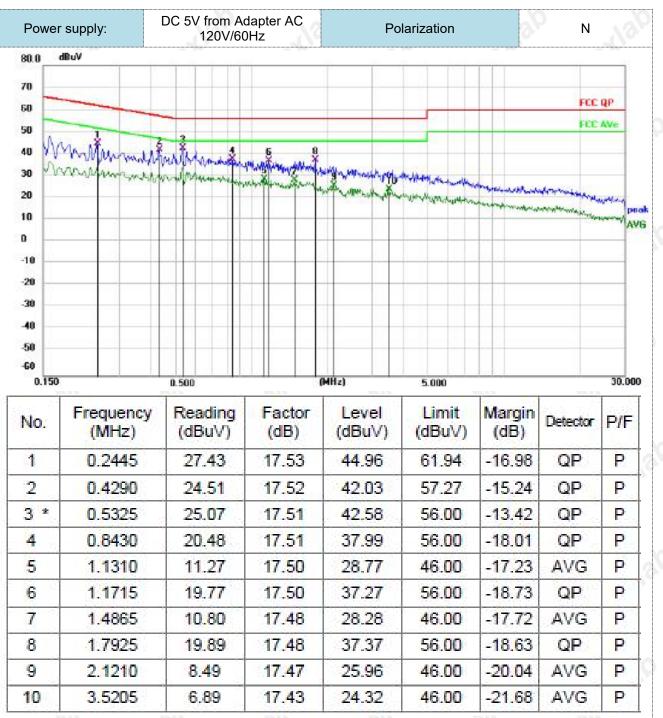
Note:1).Level (dBµV)= Reading (dBµV)+ Factor (dB)

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

3). Margin(dB) = Limit (dBµV) - Level (dBµV)



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

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

3). Margin(dB) = Limit (dB μ V) - Level (dB μ V)

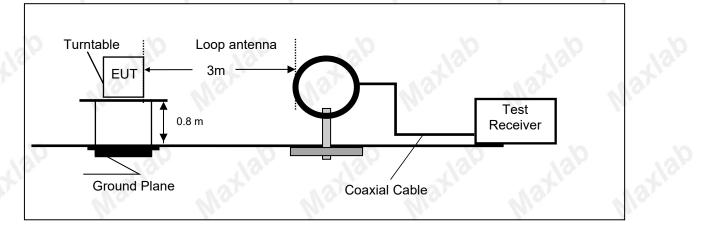


4.2 Radiated Emissions and Band Edge

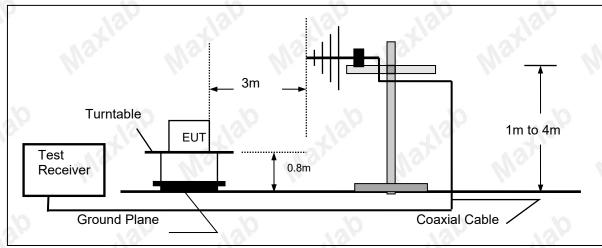
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TEST CONFIGURATION

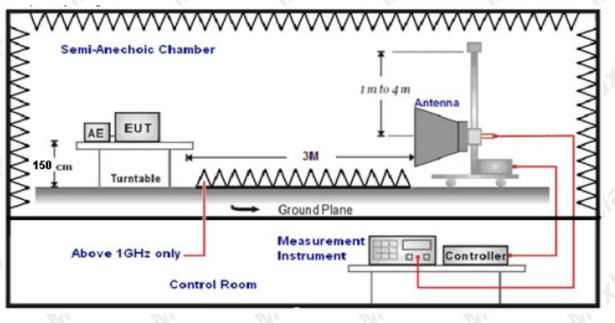
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz





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TEST PROCEDURE

MaxLab

- 1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz 25GHz.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
- 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.
- Radiated emission test frequency band from 9KHz to 25GHz.
 The distance between test antenna and EUT as following table

5.	The distance between test	antenna and EUT as following tabl	le 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 Anternna	1	
	Setting test receiver/spectru	im as following table states:		

Setting test receiver/spe	ectium 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	

Transd=AF +CL-AG

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/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 RESULTS	. 12	. 12' . 12' . 12	100



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Remark:

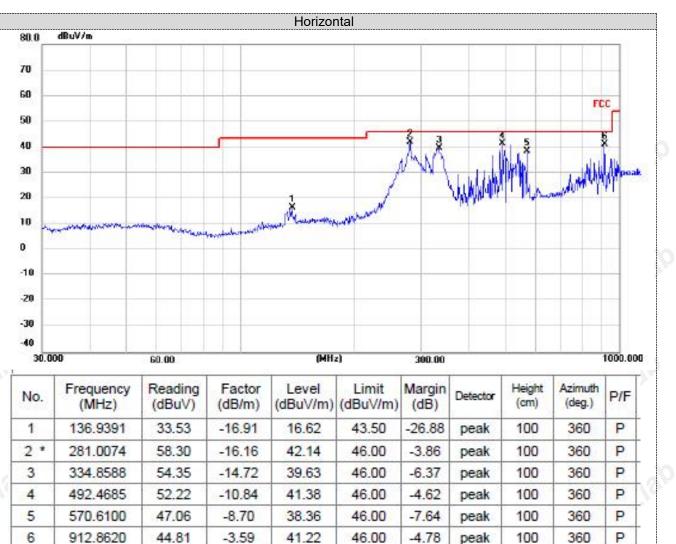
- 1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
- 2. BLE 1Mpbs were tested at Low, Middle, and High channel and recorded worst mode at BLE 1Mpbs.
- 3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no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

For 30MHz-1GHz



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peak



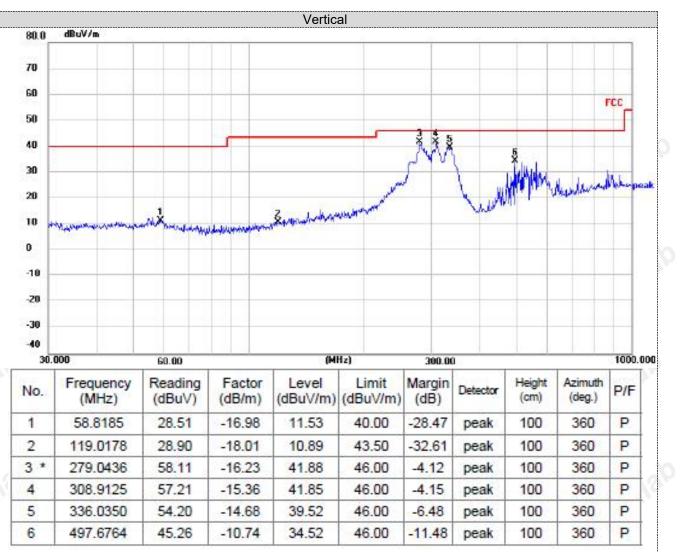
Note:1).Level ($dB\mu V/m$)= Reading ($dB\mu V$)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)



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Note:1).Level (dBµV/m)= Reading (dBµV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBµV/m) - Level (dBµV/m)



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For 1GHz to 25GHz

_	0		0	0		0	5			
	Freque	Frequency(MHz):			2402			Polarity: H		
Wa	Frequency (MHz)	Le	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
Ī	4804.00	56.22	PK	74	17.78	60.58	32.40	5.11	41.87	-4.36
Ī	4804.00	45.90	AV	54	8.10	50.26	32.40	5.11	41.87	-4.36
	7206.00	54.83	PK	74	19.17	55.46	36.58	6.43	43.64	-0.63
	7206.00	44.74	AV	54	9.26	45.37	36.58	6.43	43.64	-0.63

-11	0.	.12		. 12	13		3	. 12		3
14	Freque	Frequency(MHz):		requency(MHz): 2402		02	Polarity:			•
	Frequency (MHz)	Le	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
Ī	4804.00	56.49	PK	74	17.51	60.85	32.40	5.11	41.87	-4.36
. 1	4804.00	46.10	AV	54	7.90	50.46	32.40	5.11	41.87	-4.36
	7206.00	54.66	PK	74	19.34	55.29	36.58	6.43	43.64	-0.63
	7206.00	45.23	AV	54	8.77	45.86	36.58	6.43	43.64	-0.63

	Frequency(MHz):			2440		Polarity:		HORIZONTAL		
No	Frequency (MHz)		ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
	4880.00	56.90	PK	74	17.10	60.85	32.56	5.34	41.85	-3.95
	4880.00	46.51	AV	54	7.49	50.46	32.56	5.34	41.85	-3.95
	7320.00	54.93	PK	74	19.07	55.29	36.54	6.81	43.71	-0.36
	7320.00	45.39	AV	54	8.61	45.75	36.54	6.81	43.71	-0.36

Freque	Frequency(MHz):		2440		Polarity:		VERTICAL		
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4880.00	56.90	PK	74	17.10	60.85	32.56	5.34	41.85	-3.95
4880.00	46.51	AV	54	7.49	50.46	32.56	5.34	41.85	-3.95
7320.00	55.10	PK	74	18.90	55.46	36.54	6.81	43.71	-0.36
7320.00	45.16	AV	54	8.84	45.52	36.54	6.81	43.71	-0.36

Frequency(MHz):		2480		Polarity:		HORIZONTAL			
Frequency (MHz)	Emis Lev (dBu		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	56.80	PK	74	17.20	60.26	32.73	5.64	41.83	-3.46
4960.00	46.98	AV	54	7.02	50.44	32.73	5.64	41.83	-3.46
7440.00	55.72	PK	74	18.28	55.78	36.50	7.23	43.79	-0.06
7440.00	45.63	AV	54	8.37	45.69	36.50	7.23	43.79	-0.06
12.		3	13		25	125		35	12

Freque	Frequency(MHz):		2480		Polarity:		VERTICAL		
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	56.76	PK	74	17.24 🗤	60.22	32.73	5.64	41.83	-3.46
4960.00	46.90	AV	54	7.10	50.36	32.73	5.64	41.83	-3.46
7440.00	55.40	PK	74	18.60	55.46	36.50	7.23	43.79	-0.06
7440.00	45.57	AV	54	8.43	45.63	36.50	7.23	43.79	-0.06



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)

				GFS	5K				
Test Frequency(MHz): L			Lowest	Lowest channel P		arity:	HORIZONTAL		
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2310.00	49.73	PK	74	24.27	60.15	27.42	4.31	42.15	-10.42
2310.00	40.03	AV	54	13.97	50.45	27.42	4.31	42.15	-10.42
2390.00	48.12	PK	74	25.88	58.41	27.55	4.35	42.19	-10.29
2390.00	38.05	AV	54	15.95	48.34	27.55	4.35	42.19	-10.29
2400.00	45.07	PK	74	28.93	55.26	27.70	4.39	42.28	-10.19
2400.00	35.22	AV	54	18.78	45.41	27.70	4.39	42.28	-10.19

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Test Freq	Test Frequency(MHz):		Lowest channel		Polarity:		VERTICAL		
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2310.00	48.21	PK	74	25.79	58.63	27.42	4.31	42.15	-10.42
2310.00	38.03	AV	54	15.97	48.45	27.42	4.31	42.15	-10.42
2390.00	44.97	PK	74	29.03	55.26	27.55	4.35	42.19	-10.29
2390.00	34.95	AV	54	19.05	45.24	27.55	4.35	42.19	-10.29
2400.00	43.43	PK	74	30.57	53.62	27.70	4.39	42.28	-10.19
2400.00	32.66	AV	54	21.34	42.85	27.70	4.39	42.28	-10.19

Test Freq	uency(Mł	lz):	Highest	channel	Pola	arity:	HORIZONTA		۸L
Frequency (MHz)	Emis Lev (dBu'	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	45.01	PK	74	28.99	55.64	27.55	4.38	42.56	-10.63
2483.50	34.66	AV	54	19.34	45.29	27.55	4.38	42.56	-10.63
2500.00	42.68	PK	74	31.32	53.41	27.69	4.46	42.88	-10.73
2500.00	31.92	AV	54	22.08	42.65	27.69	4.46	42.88	-10.73

Test Frequency(MHz):		Highest channel		Polarity:		VERTICAL			
Frequency (MHz)		sion vel V/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	42.63	PK	74	31.37	53.26	27.55	4.38	42.56	-10.63
2483.50	33.22	AV	54	20.78	43.85	27.55	4.38	42.56	-10.63
2500.00	39.73	PK	74	34.27	50.46	27.69	4.46	42.88	-10.73
2500.00	29.55	AV	54	24.45	40.28	27.69	4.46	42.88	-10.73

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.



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4.3 Maximum Peak Output Power

<u>Limit</u>

The Maximum Peak Output Power Measurement is 30dBm.

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

EUT	130	X	Power Sensor	p
		at'		

Test Results

Туре	Channel	Output power (dBm)	Limit (dBm)	Result
a la	00	1.256	Na.	N'a.
GFSK 1Mbps	19	1.652	30.00	Pass
	39	1.562	N *	N.

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



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4.4 Power Spectral Density

<u>Limit</u>

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW \geq 3 kHz.
- 3. Set the VBW \ge 3× RBW.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum power level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be 8dBm.

Test Configuration



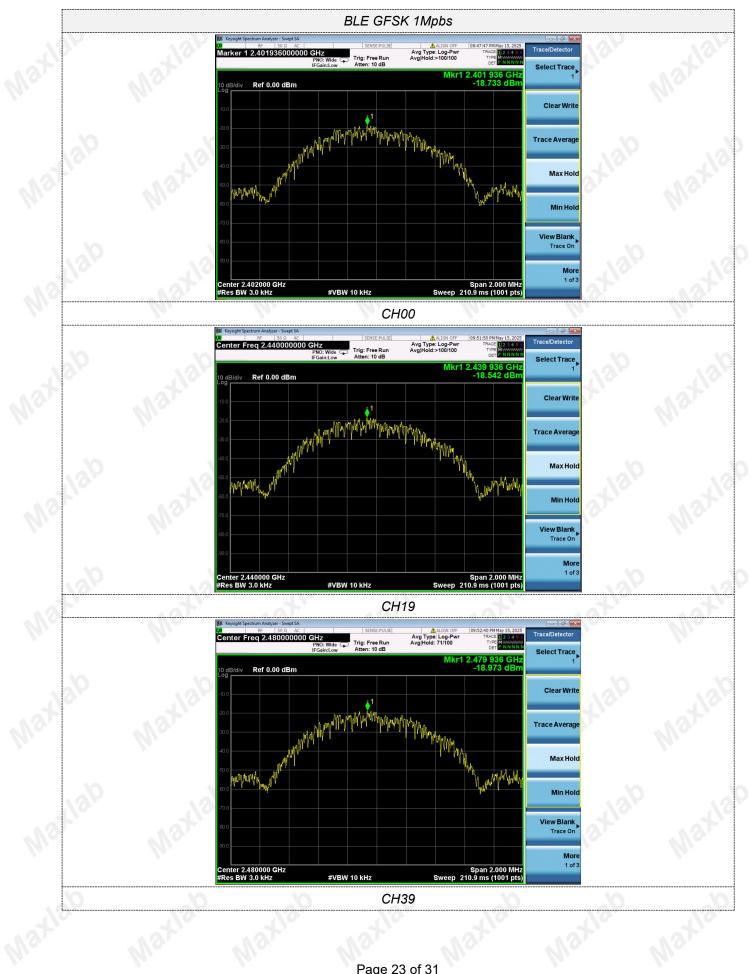
<u>Test Results</u>

Туре	Channel	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
No.	00	-18.733	The T	a Ta
GFSK 1Mbps	19	-18.542	8.00	Pass
Qr.	39	-18.973	N N	N

Test plot as follows:



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4.5 6dB Bandwidth

<u>Limit</u>

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

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 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

Test Configuration



Test Results

Туре	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
131	00	0.661	18/	131
GFSK 1Mbps	19	0.662	≥500	Pass
	39	0.661		

Test plot as follows:



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4.6 Out-of-band Emissions

<u>Limit</u>

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 con-ducted or a radiated measurement, pro-vided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter com-plies 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.

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, bandedge and out-of-band emissions.

Test Configuration



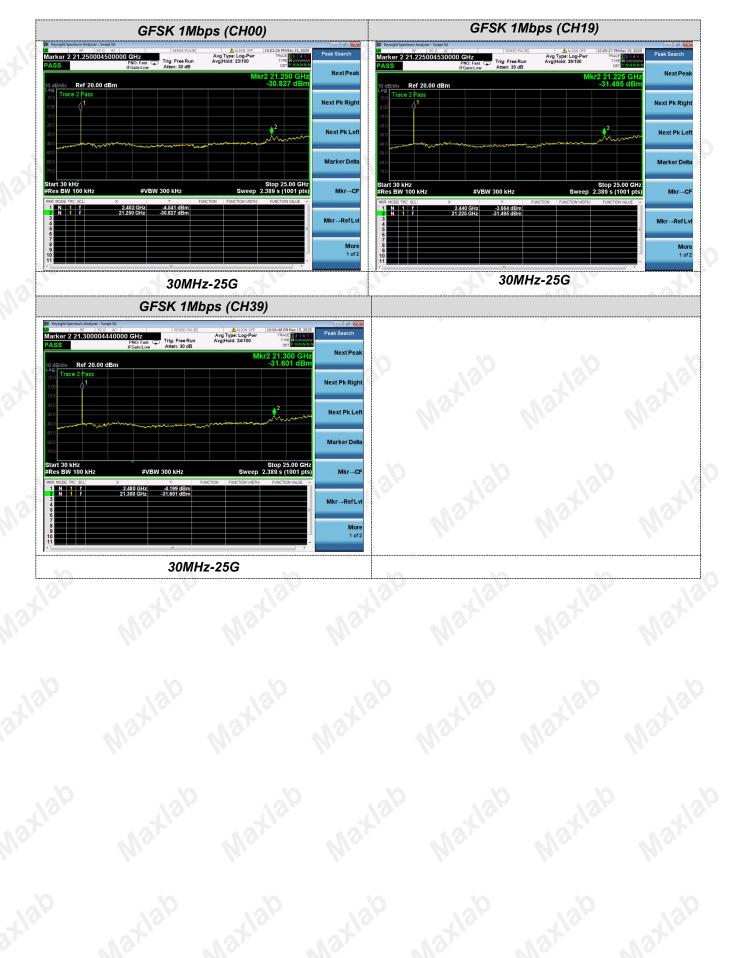
<u>Test Results</u>

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.

Test plot as follows:



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MAXLAB Testing Co.,Ltd. Band-edge Measurements for RF Conducted Emissions:

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4.7 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Antenna Connected Construction

The maximum gain of antenna was 0.07 dBi.

Remark:The antenna gain is provided by the customer, if the data provided by the customer is not accurate, MAXLAB Testing Co.,Ltd.. does not assume any responsibility.



MAXLAB Testing Co.,Ltd. Test Setup Photos of the EUT 5

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6 <u>Photos of the EUT</u>

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

******************************* End of Report **********************************