

TEST REPORT

Applicant: Dongguan Anhong Electronic Technology Co., Ltd
Address of Applicant: Room 901, Building 8, No.95 Jiaoping Road, Tangxia Town, Dongguan City, Guangdong Province, China
Manufacturer: Dongguan Anhong Electronic Technology Co., Ltd
Address of Manufacturer: Room 901, Building 8, No.95 Jiaoping Road, Tangxia Town, Dongguan City, Guangdong Province, China
Factory: Dongguan Anhong Electronic Technology Co., Ltd
Address of Factory: Room 901, Building 8, No.95 Jiaoping Road, Tangxia Town, Dongguan City, Guangdong Province, China

Equipment Under Test (EUT)

Product Name: Baby Monitor
Model No.: ABM790 (For specific models, please refer to page 5 of the report)
Trade Mark: N/A
FCC ID: 2AYKP-ABM790
Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt: 2025-06-27
Date of Test: 2025-07-10 to 2025-07-21
Date of report issued: 2025-08-04
Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

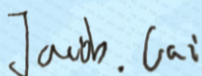
Robinson Luo
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	2025-08-04	Original

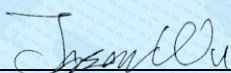
Tested By:


Test Engineer

Date:

2025-07-21

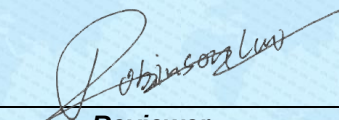
Prepared By:


Project Engineer

Date:

2025-08-04

Check By:


Reviewer

Date:

2025-08-04

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4 Test Summary

Test Item	Section	Result
Antenna requirement	FCC part 15.203/15.247(b)(4)	Pass
AC Power Line Conducted Emission	FCC part 15.207	Pass
Conducted Peak Output Power	FCC part 15.247 (b)(3)	Pass
Channel Bandwidth & 99% OCB	FCC part 15.247 (a)(2)	Pass
Power Spectral Density	FCC part 15.247 (e)	Pass
Band Edge	FCC part 15.247(d)	Pass
Spurious Emission	FCC part 15.205/15.209	Pass

Remarks:

1. Test according to ANSI C63.10:2013.
2. Pass: The EUT complies with the essential requirements in the standard.
3. N/A: not applicable

Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 3\text{dB}$
6	Conducted Spurious emissions	$\pm 2.58\text{dB}$
7	AC Power Line Conducted Emission	$\pm 3.44\text{dB}$ (0.15MHz ~ 30MHz)
8	Radiated Spurious emission test	$\pm 3.1\text{dB}$ (9kHz-30MHz)
		$\pm 3.8039\text{dB}$ (30MHz-200MHz)
		$\pm 3.9679\text{dB}$ (200MHz-1GHz)
		$\pm 4.29\text{dB}$ (1GHz-18GHz)
		$\pm 3.30\text{dB}$ (18GHz-40GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Time	$\pm 3\%$

5 General Information

5.1 General Description of EUT

Product Name:	Baby Monitor
Model No.:	ABM790, ABM100, ABM100S, ABM101, ABM109, ABM200, ABM200S, ABM201, ABM201S, ABM209, ABM210, ABM210S, ABM260, ABM280, ABM290, ABM300, ABM330, ABM350, ABM360, ABM380, ABM400, ABM500, ABM501, ABM510, ABM511, ABM520, ABM520S, ABM521, ABM530, ABM540, ABM540P, ABM550, ABM560, ABM570, ABM590, ABM600, ABM601, ABM605, ABM606, ABM608, ABM609, ABM610, ABM620, ABM630, ABM640, ABM650, ABM660, ABM670, ABM680, ABM690, ABM700, ABM703, ABM710, ABM720, ABM721, ABM721S, ABM730, ABM740, ABM750, ABM760, ABM780, ABM781, ABM781S, ABM790, ABM800, ABM806, ABM808, ABM809, ABM810, ABM820, ABM830, ABM840, ABM850, ABM860, ABM880, ABM890, ABM900, ABM906, ABM910, ABM920, ABM950, ABM950S, ABM960, ABM980, ABM990, ABM995, ABM996, ABM998
Test sample(s) ID:	GTSL2025070598-1
Sample(s) Status	Engineer sample
S/N:	N/A
Operation Frequency:	2412MHz~2472MHz
Channel numbers:	13
Channel separation:	5MHz
Modulation technology:	GFSK
Antenna Type:	Integrated Antenna
Antenna gain:	1.95 dBi
Power supply:	5Vdc 1A

Disclaimer statement:

1. Antenna gain information provided by the customer, and the laboratory is not responsible for its authenticity.
2. The information in this section is provided by the applicant or manufacturer, GTS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	5	2432MHz	9	2452 MHz	13	2472 MHz
2	2417MHz	6	2437MHz	10	2457MHz	X	
3	2422MHz	7	2441.5MHz	11	2462MHz		
4	2427MHz	8	2447MHz	12	2467 MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)
	GFSK
Lowest channel	2412MHz
Middle channel	2441.5MHz
Highest channel	2472MHz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
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We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	GFSK
Data rate	4Mbps

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
Shenzhen Sorghum red Electronics Technology Co.,Ltd	SWITCHING ADAPTER	G006A0501000U	GLH2319

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC —Registration No.: 381383**

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

● **ISED—Registration No.: 9079A**

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing.

● **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.8 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	Default

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Apr. 11, 2025	Apr. 10, 2026
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Apr. 12, 2025	Apr. 11, 2026
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Apr. 12, 2025	Apr. 11, 2026
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 11, 2025	Apr. 10, 2026
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Jul. 01, 2025	Jun. 30, 2026
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.16, 2024	Nov.15, 2025
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 11, 2025	Apr. 10, 2026
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 11, 2025	Apr. 10, 2026
10	Horn Antenna (18GH-40GHz)	Schwarzbeck	BBHA 9170	GTS691	Apr. 11, 2025	Apr. 10, 2026
11	FSV-Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	Mar. 11, 2025	Mar. 10, 2026
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 11, 2025	Apr. 10, 2026
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 13, 2024	Nov. 12, 2025
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 11, 2025	Apr. 10, 2026
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 15, 2025	Apr. 14, 2026
16	RE cable 1	GTS	N/A	GTS675	Jul. 11, 2025	Jul. 10, 2026
					Jul. 11, 2024	Jul. 10, 2025
17	RE cable 2	GTS	N/A	GTS676	Jul. 11, 2025	Jul. 10, 2026
					Jul. 11, 2024	Jul. 10, 2025
18	RE cable 3	GTS	N/A	GTS677	Jul. 11, 2025	Jul. 10, 2026
					Jul. 11, 2024	Jul. 10, 2025
19	RE cable 4	GTS	N/A	GTS678	Jul. 11, 2025	Jul. 10, 2026
					Jul. 11, 2024	Jul. 10, 2025
20	RE cable 5	GTS	N/A	GTS679	Jul. 11, 2025	Jul. 10, 2026
					Jul. 11, 2024	Jul. 10, 2025
21	RE cable 6	GTS	N/A	GTS680	Jul. 11, 2025	Jul. 10, 2026
					Jul. 11, 2024	Jul. 10, 2025
22	RE cable 7	GTS	N/A	GTS681	Jul. 11, 2025	Jul. 10, 2026
					Jul. 11, 2024	Jul. 10, 2025
23	RE cable 8	GTS	N/A	GTS682	Jul. 11, 2025	Jul. 10, 2026
					Jul. 11, 2024	Jul. 10, 2025
24	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	Jul. 12, 2022	Jul. 11, 2027
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 12, 2025	Apr. 11, 2026
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	Apr. 11, 2025	Apr. 10, 2026
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
5	Thermo meter	JINCHUANG	GSP-8A	GTS642	Apr. 15, 2025	Apr. 14, 2026
6	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	Apr. 12, 2025	Apr. 11, 2026
7	ISN	SCHWARZBECK	NTFM 8158	GTS565	Apr. 11, 2025	Apr. 10, 2026
8	High voltage probe	SCHWARZBECK	TK9420	GTS537	Apr. 11, 2025	Apr. 10, 2026
9	Antenna end assembly	Weinschel	1870A	GTS560	Apr. 11, 2025	Apr. 10, 2026
10	EMI Test Software	AUDIX	E3-6.100622	GTS726	N/A	N/A
11	Current probe	CYBERTEK	EM5011	GTS698	Jan. 13, 2025	Jan. 12, 2026

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	Apr. 11, 2025	Apr. 10, 2026
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 12, 2025	Apr. 11, 2026
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	Apr. 11, 2025	Apr. 10, 2026
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	Apr. 11, 2025	Apr. 10, 2026
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	Apr. 11, 2025	Apr. 10, 2026
6	Wideband Power Meter	Keysight	N1924A	GTS673	Apr. 11, 2025	Apr. 10, 2026
7	USB RF Power Sensor	DARE	RPR3006W	GTS569	Apr. 11, 2025	Apr. 10, 2026
8	RF Switch Box	Shongyi	RFSW3003328	GTS571	Apr. 11, 2025	Apr. 10, 2026
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	Apr. 11, 2025	Apr. 10, 2026
10	Thermo meter	JINCHUANG	GSP-8A	GTS641	Apr. 15, 2025	Apr. 14, 2026

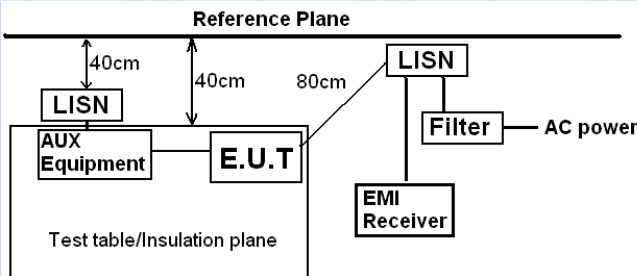
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Jul. 16, 2025	Jul. 15, 2026

7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(b)(4)
15.203 requirement: 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.	
15.247(b)(4) requirement: (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
EUT Antenna:	
The antenna is Integrated antenna, reference to the appendix III for details.	

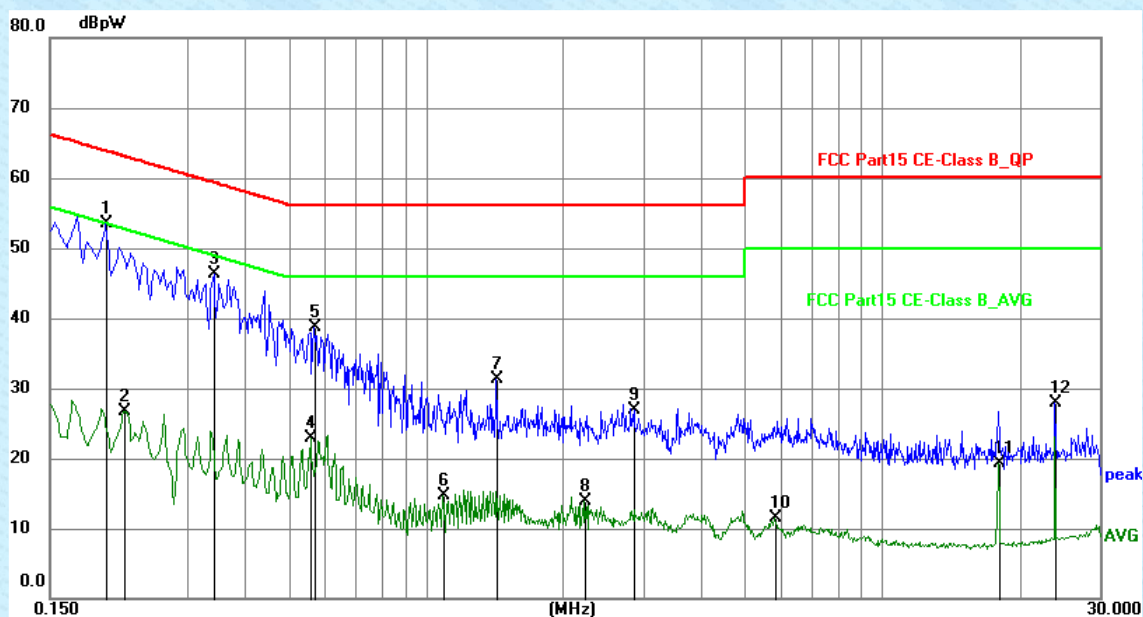
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	150KHz to 30MHz						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto						
Limit:	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 setup:	Reference Plane  Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m						
Test procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	
Test voltage:	AC 120V, 60Hz						
Test results:	Pass						

Measurement data

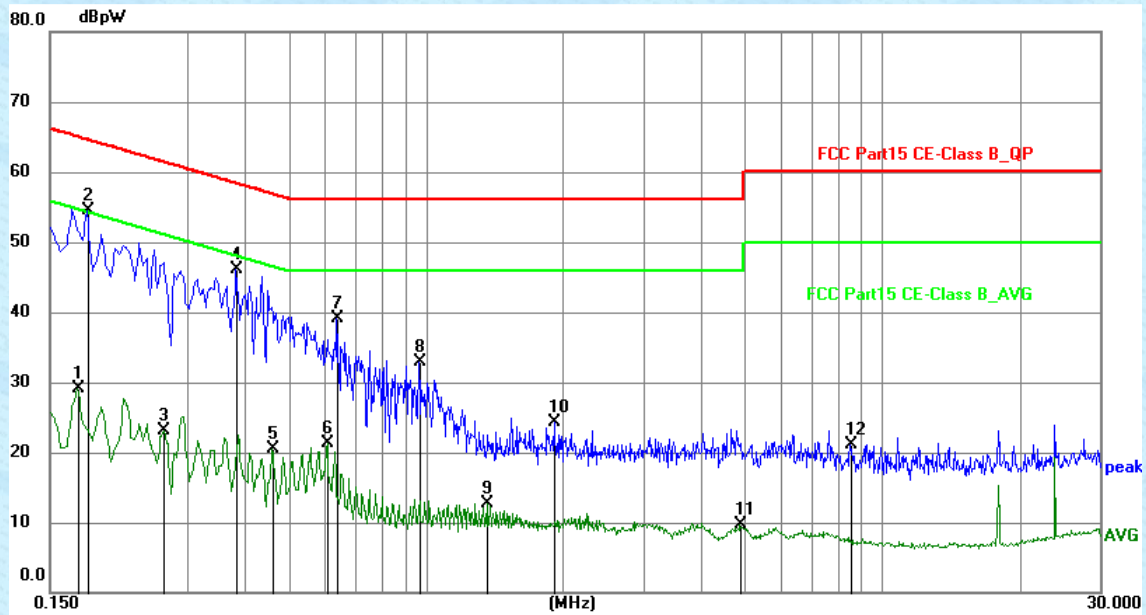
Pre-scan all test modes, found worst case at 2412MHz, and so only show the test result of 2412MHz.

Line:



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB)	Level (dBpW)	Limit (dBpW)	Margin (dB)	Detector
1	0.1995	42.86	10.56	53.42	63.63	-10.21	peak
2	0.2175	16.22	10.56	26.78	52.91	-26.13	AVG
3	0.3435	35.90	10.50	46.40	59.12	-12.72	peak
4	0.5595	12.43	10.45	22.88	46.00	-23.12	AVG
5	0.5685	28.25	10.46	38.71	56.00	-17.29	peak
6	1.0905	4.20	10.43	14.63	46.00	-31.37	AVG
7	1.4325	20.96	10.43	31.39	56.00	-24.61	peak
8	2.2335	3.57	10.41	13.98	46.00	-32.02	AVG
9	2.8635	16.52	10.36	26.88	56.00	-29.12	peak
10	5.8335	1.18	10.32	11.50	50.00	-38.50	AVG
11	17.9880	8.58	10.65	19.23	50.00	-30.77	AVG
12	24.0000	16.47	11.52	27.99	60.00	-32.01	peak

Neutral:

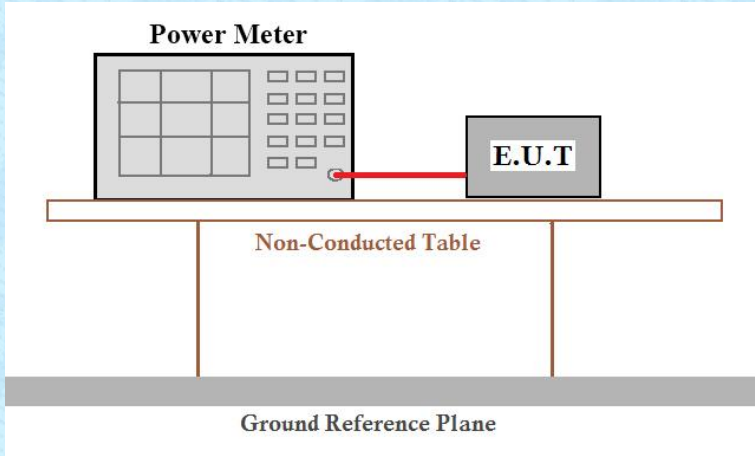


No.	Frequency (MHz)	Reading (dBUV)	Factor (dB)	Level (dBpW)	Limit (dBpW)	Margin (dB)	Detector
1	0.1725	28.86	0.18	29.04	54.84	-25.80	AVG
2	0.1815	54.40	0.17	54.57	64.42	-9.85	peak
3	0.2670	22.97	0.13	23.10	51.21	-28.11	AVG
4	0.3840	45.99	0.12	46.11	58.19	-12.08	peak
5	0.4605	20.42	0.11	20.53	46.68	-26.15	AVG
6	0.6090	21.20	0.09	21.29	46.00	-24.71	AVG
7	0.6405	38.94	0.09	39.03	56.00	-16.97	peak
8	0.9645	32.90	0.03	32.93	56.00	-23.07	peak
9	1.3605	12.63	0.05	12.68	46.00	-33.32	AVG
10	1.9140	24.25	0.08	24.33	56.00	-31.67	peak
11	4.8840	9.55	0.06	9.61	46.00	-36.39	AVG
12	8.5200	21.01	0.06	21.07	60.00	-38.93	peak

Notes:

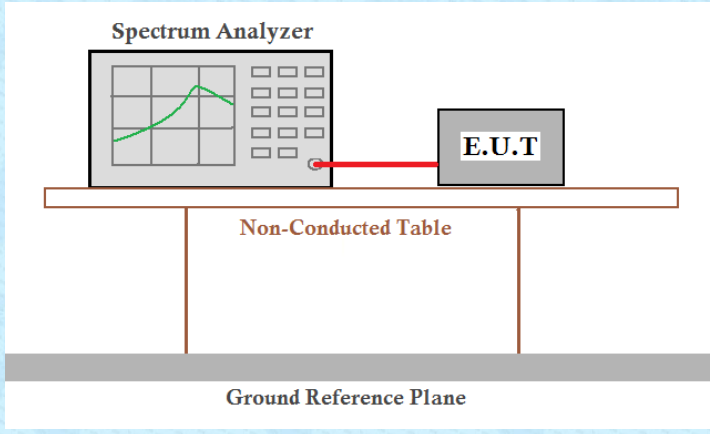
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

7.3 Conducted Output Power

Test Requirement :	FCC Part15 C Section 15.247 (b)(3)
Test Method :	ANSI C63.10:2013
Limit:	30dBm
Test setup:	 The diagram illustrates the test setup. A 'Power Meter' is connected to an 'E.U.T.' (Equipment Under Test) by a red cable. Both the Power Meter and the E.U.T. are placed on a 'Non-Conducted Table'. This table is supported by a 'Ground Reference Plane'.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

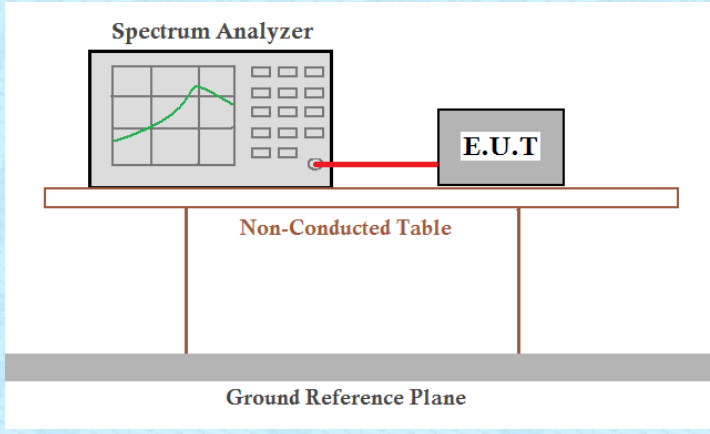
Measurement Data: The detailed test data see Appendix for ISM Custom 2.4GHz.

7.4 Channel Bandwidth

Test Requirement :	FCC Part15 C Section 15.247 (a)(2)
Test Method :	ANSI C63.10:2013
Limit:	>500KHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, showing a frequency spectrum on its screen, is connected to an E.U.T. (Equipment Under Test) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a Non-Conducted Table. This table is supported by a Ground Reference Plane, which is represented by a thick grey bar at the bottom of the setup.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for ISM Custom 2.4GHz.

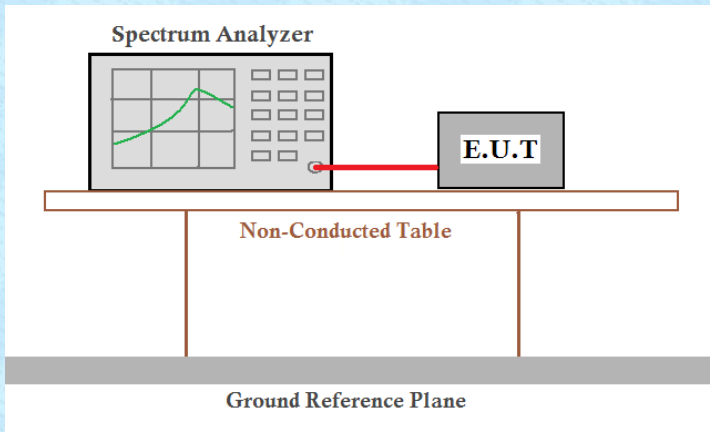
7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013
Limit:	8dBm/3kHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for ISM Custom 2.4GHz.

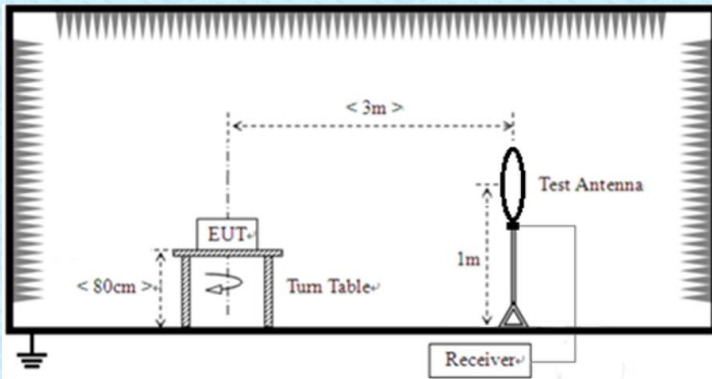
7.6 Spurious Emission in Non-restricted & restricted Bands

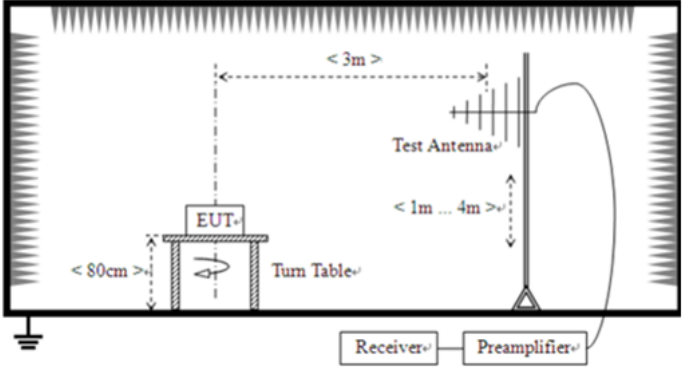
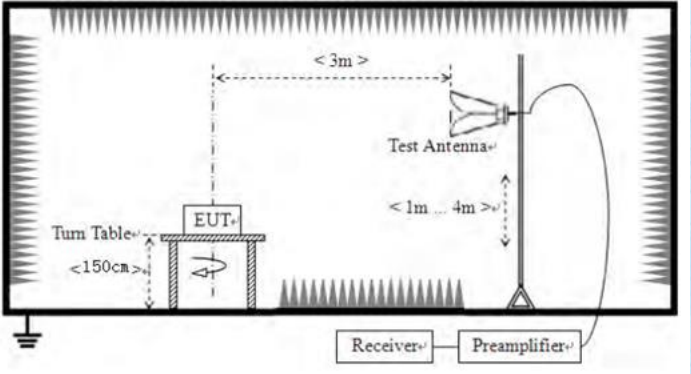
7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for ISM Custom 2.4GHz.

7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
	Note: For Duty cycle ≥ 98%, average detector set as above For Duty cycle < 98%, average detector set as below: VBW ≥ 1 / T				
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	PK/QP/A V	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	30m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
For radiated emissions from 30MHz to1GHz					

	 For radiated emissions above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 6.0 for details

Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Remarks:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Measurement data:

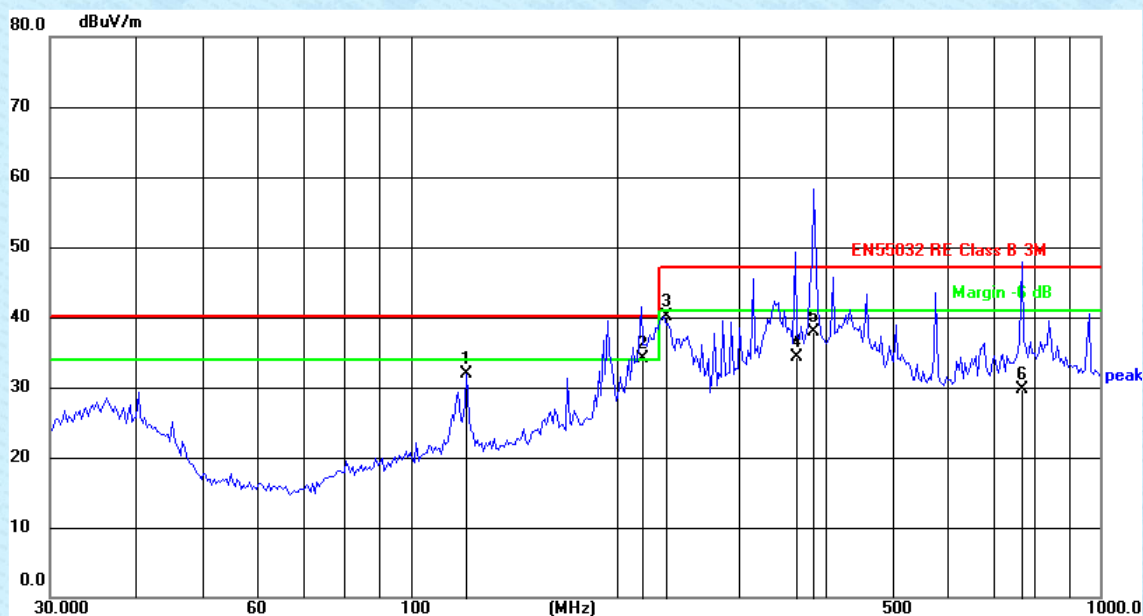
■ 9kHz~30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

■ Below 1GHz

Pre-scan all test modes, found worst case at 2412MHz, and so only show the test result of 2412MHz.

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	120.6117	39.28	-7.45	31.83	40.00	-8.17	peak
2	216.1197	36.31	-2.14	34.17	40.00	-5.83	QP
3	233.4881	42.98	-2.81	40.17	47.00	-6.83	peak
4	360.9775	37.88	-3.53	34.35	47.00	-12.65	QP
5	384.5447	41.32	-3.42	37.90	47.00	-9.10	QP
6	771.0475	25.72	3.96	29.68	47.00	-17.32	QP

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.8697	30.76	-4.19	26.57	40.00	-13.43	peak
2	97.0023	24.55	-8.33	16.22	40.00	-23.78	QP
3	216.1197	40.62	-3.81	36.81	40.00	-3.19	QP
4	384.5447	37.00	-3.22	33.78	47.00	-13.22	QP
5	578.0359	29.92	3.86	33.78	47.00	-13.22	QP
6	771.0475	36.00	5.10	41.10	47.00	-5.90	peak

Unwanted Emissions in non-restricted Frequency Bands

■ Above 1GHz

Test mode:	GFSK	Test channel:	Lowest
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Peak value:

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
3394.584	38.76	20.20	0.70	7.21	66.87	74.00	-7.13	Vertical
6569.953	11.77	26.30	0.82	7.30	46.19	74.00	-27.81	Vertical
10382.281	5.97	31.20	0.88	7.39	45.44	74.00	-28.56	Vertical
4805.307	19.16	22.09	0.73	7.25	49.23	74.00	-24.77	Horizontal
6608.119	11.19	26.47	0.80	7.28	45.74	74.00	-28.26	Horizontal
8982.627	7.98	28.64	0.83	7.33	44.78	74.00	-29.22	Horizontal

Average value:

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
3394.584	12.12	20.20	0.70	7.21	40.23	54.00	-13.77	Vertical
6569.953	-3.16	26.30	0.82	7.30	31.26	54.00	-22.74	Vertical
10382.281	-5.64	31.20	0.88	7.39	33.83	54.00	-20.17	Vertical
4805.307	2.77	22.09	0.73	7.25	32.84	54.00	-21.16	Horizontal
6608.119	0.17	26.47	0.80	7.28	34.72	54.00	-19.28	Horizontal
8982.627	-3.02	28.64	0.83	7.33	33.78	54.00	-20.22	Horizontal

Test mode:	GFSK	Test channel:	Middle
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Peak value:

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
5851.278	14.59	24.22	0.77	7.26	46.84	74.00	-27.16	Vertical
9685.139	6.94	30.21	0.85	7.36	45.36	74.00	-28.64	Vertical
15663.856	7.01	28.22	1.30	8.62	45.15	74.00	-28.85	Vertical
3434.138	18.38	20.44	0.69	7.05	46.56	74.00	-27.44	Horizontal
4861.299	15.29	22.24	0.73	7.22	45.48	74.00	-28.52	Horizontal
6646.506	11.15	26.54	0.80	7.33	45.82	74.00	-28.18	Horizontal

Average value:

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
5851.278	0.90	24.22	0.77	7.26	33.15	54.00	-20.85	Vertical
9685.139	-7.57	30.21	0.85	7.36	30.87	54.00	-23.13	Vertical
15663.856	-5.34	28.22	1.30	8.62	32.69	54.00	-21.31	Vertical
3434.138	2.71	20.44	0.69	7.05	30.89	54.00	-23.11	Horizontal
4861.299	4.07	22.24	0.73	7.22	34.26	54.00	-19.74	Horizontal
6646.506	-1.81	26.54	0.80	7.33	32.86	54.00	-21.14	Horizontal

Test mode:	GFSK	Test channel:	Highest
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Peak value:

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
3494.334	29.45	20.43	0.71	7.15	57.74	74.00	-16.26	Vertical
6569.953	11.61	26.45	0.74	7.23	46.03	74.00	-27.97	Vertical
10937.875	5.28	31.63	0.86	7.37	45.14	74.00	-28.86	Vertical
5426.855	13.78	23.21	0.71	7.18	44.88	74.00	-29.12	Horizontal
8526.350	8.89	28.66	0.80	7.29	45.64	74.00	-28.36	Horizontal
12938.522	4.28	30.12	1.21	8.33	43.94	74.00	-30.06	Horizontal

Average value:

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
3494.334	6.80	20.43	0.71	7.15	35.09	54.00	-18.91	Vertical
6569.953	-0.55	26.45	0.74	7.23	33.87	54.00	-20.13	Vertical
10937.875	-8.45	31.63	0.86	7.37	31.41	54.00	-22.59	Vertical
5426.855	2.97	23.21	0.71	7.18	34.07	54.00	-19.93	Horizontal
8526.350	-6.48	28.66	0.80	7.29	30.27	54.00	-23.73	Horizontal
12938.522	-8.66	30.12	1.21	8.33	31.00	54.00	-23.00	Horizontal

Notes:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

■ Unwanted Emissions in restricted Frequency Bands & Band Edge

Test mode:	GFSK	Test channel:	Lowest
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Peak value:

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
2390.000	16.54	19.87	0.70	7.05	44.16	74.00	-29.84	Horizontal
2400.000	23.26	18.67	0.63	6.85	49.41	74.00	-24.59	Horizontal
2390.000	18.13	19.87	0.70	7.05	45.75	74.00	-28.25	Vertical
2400.000	24.30	18.67	0.63	6.85	50.45	74.00	-23.55	Vertical

Average value:

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
2390.000	0.94	19.87	0.70	7.05	28.56	54.00	-25.44	Horizontal
2400.000	7.70	18.67	0.63	6.85	33.85	54.00	-20.15	Horizontal
2390.000	2.04	19.87	0.70	7.05	29.66	54.00	-24.34	Vertical
2400.000	8.74	18.67	0.63	6.85	34.89	54.00	-19.11	Vertical

Test mode:	GFSK	Test channel:	Highest
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Peak value:

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
2483.500	15.76	19.71	0.77	7.31	43.55	74.00	-30.45	Horizontal
2500.000	22.53	18.65	0.69	7.14	49.01	74.00	-24.99	Horizontal
2483.500	17.57	19.71	0.77	7.31	45.36	74.00	-28.64	Vertical
2500.000	22.02	18.65	0.69	7.14	48.50	74.00	-25.50	Vertical

Average value:

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
2483.500	1.03	19.71	0.77	7.31	28.82	54.00	-25.18	Horizontal
2500.000	7.49	18.65	0.69	7.14	33.97	54.00	-20.03	Horizontal
2483.500	1.92	19.71	0.77	7.31	29.71	54.00	-24.29	Vertical
2500.000	6.49	18.65	0.69	7.14	32.97	54.00	-21.03	Vertical

Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II and appendix III** for details.

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