

EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD.

RADIO TEST - REPORT

Japan Compliance Test Report

Test Report Number: EFGX26070081-IE-01-E01

Content

1	General Information	3
1.1	Notes	3
1.2	Testing laboratory	4
1.3	Details of approval holder	4
1.4	Details of Manufacturer	4
1.5	Application details	5
1.6	Test item	5
1.7	Standards	6
2	Technical test	7
2.1	Summary of test results	7
2.2	Test environment	7
2.3	Measurement uncertainty	7
2.4	Test mode	7
2.5	Test equipment utilized	8
2.6	Auxiliary Equipment Used during Test:	9
2.7	Test software information:	9
2.8	Test Environments	9
2.9	Test results	10
3	Technical Requirement	11
3.1	Antenna Power	11
3.2	Tolerances for Antenna Power	14
3.3	Frequency Tolerance	16
3.4	Occupied Frequency Bandwidth	18
3.5	Spread Bandwidth and spreading factor	20
3.6	Transmitter Spurious Emissions (Conducted) (For transmitter)	22
3.7	Secondary Radiated Emissions (Conducted) (For receiver)	26
3.8	Interference prevention function	29

1 General Information

1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd. is not responsible for any generalisations and conclusions drawn from this report. Any modification of the test item can lead to invalidity of test results and this test report may therefore be not applicable to the modified test item.

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Operator:

2026-07-30

Bruce Zheng / Project Engineer



Date

Eurofins-Lab.

Name / Title

Signature

Technical responsibility for area of testing:

2026-07-30

Albert Xu / Lab Manager



Date

Eurofins-Lab.

Name / Title

Signature

1.2 Testing laboratory

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.

Room 20 of 2/F., 1/F., Building 2, Spring Block & Room 102, Building 8, Autumn Block,

Meishenghuigu Innovation Park, No.83, Dabao Road, Bao'an District, Shenzhen, Guangdong, China

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The Laboratory has passed the Accreditation by the American Association for Laboratory Accreditation (A2LA). The Accreditation number is 5376.01.

The Laboratory has been listed by industry Canada to perform electromagnetic emission measurements, The CAB identifier is CN0088.

1.3 Details of approval holder

Name : Chengdu Ebyte Electronic Technology Co., Ltd

Address : Building B2, Mould Industrial Park, 199# Xi-Qu Ave, West
High-tech Zone, Chengdu, 611731, Sichuan, China

Telephone : ./.

Fax : ./.

1.4 Details of Manufacturer

Name : Chengdu Ebyte Electronic Technology Co., Ltd

Address : Building B2, Mould Industrial Park, 199# Xi-Qu Ave, West
High-tech Zone, Chengdu, 611731, Sichuan, China

Telephone : ./.

Fax : ./.

1.5 Application details

Date of receipt of application	: 2026-07-06
Date of receipt of test item	: 2026-07-06
Date of test	: 2026-07-06 to 2026-07-30
Date of issue	: 2026-07-30

1.6 Test item

Product type	: Wireless Module
Model name	: E28-2G4M27SX
Brand	: ./.
Serial number	: ./.
Sample ID	: 260706-43-001
Ratings	: DC 3.3V
Test voltage	: DC 3.3V
Additional information	: ./.

RadioTechnical data

Frequency range	: 2402MHz – 2478MHz
Radio Tech.	: 2.4GHz SRD
Frequency channel	: 20 Channels
Modulation	: GFSK
Antenna type	: Glue Stick antenna
Antenna gain	: 5 dBi

The above sample(s) and sample information was/were submitted and identified on behalf of the applicant.
Eurofins assures objectivity and impartiality of the test, and fulfills the obligation of confidentiality for applicant's commercial information and technical documents.

1.7 Standards

Standards	
Article 2 paragraph 1 item (19)	Low power data communications system in the 2.4GHz band
ARIB STD-T66 V3.7	SECOND GENERATION LOW POWER DATA COMMUNICATION SYSTEM/ WIRELESS LAN SYSTEM

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations as specified were ascertained in the course of the tests performed.



2.2 Test environment

Temperature : 20 ... 25°C
Relative humidity content : 30 ... 60%
Air pressure : 100 ... 101kPa

2.3 Measurement uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted RF test	RF Power Conducted: 1.16dB Frequency test involved: 1.05×10 ⁻⁷ or 1%

2.4 Test mode

The EUT was set at continuously transmitting and receiving mode (CH1, CH11, CH20) during the test.

Channel	Frequency (MHz)	Channel (MHz)	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	9	2434	17	2466
2	2406	10	2438	18	2470
3	2410	11	2442	19	2474
4	2414	12	2446	20	2478
5	2418	13	2450		
6	2422	14	2454		
7	2426	15	2458		
8	2430	16	2462		

2.5 Test equipment utilized

EQUIPMENT ID	EQUIPMENT NAME	MODEL NO.	SN NO.	CAL. DUE DATE
23-2-13-12	Signal Analyzer	N9010B-544	MY57471523	2027-03-20
23-2-10-43	Switch and Control Unit	ERIT-E-JS0806-2	/.	2027-03-20
23-2-10-44	DC power supply	E3642A	MY58386620	2027-03-20
23-2-10-50	Temperature & Humidity Meter	COS-03	582951	2027-03-20

Remark:

1. Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.
2. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).
3. Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
4. Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (C) From JRL Article 24-2, paragraph 4, Item 2.
5. All calibration reports are from CCIC (Shenzhen) Metrology & Testing Service Co., Ltd.

2.6 Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
Laptop	LENOVO	TP00096A	PF-1QH0LV

2.7 Test software information:

Test Software Version	E28 TOOL		
Modulation	Setting TX Power	Modulation factor	Bandwidth
GFSK	-17	1	0.6M
GFSK	-17	1	1.2M
GFSK	-17	1	2.4M

2.8 Test Environments

Enviroment Parameter	Temperature	Voltage	Relative Humidity
101.7Kpa	26.1℃	DC 2.25V DC 3.3V DC 3.96V	53.3%

2.9 Test results

☒ 1st test

☐ test after modification

☐ production test

Conformance requirement according to Article 2 paragraph 1 item (19) and ARIB STD-T66 Version 3.7/2014-10		Result	Test site
Essential parameter	Corresponding technical requirements		
Transmitter requirements	3.2 (2) Antenna Power	PASS	Site 1
	3.2 (3) Tolerances for Antenna Power	PASS	Site 1
	3.2 (4) Frequency Tolerance	PASS	Site 1
	3.2 (5) Transmission Rate	N/A*	N/A
	3.2 (7) Occupied Frequency Bandwidth	PASS	Site 1
	3.2 (8) Spread Bandwidth	PASS	Site 1
	3.2 (9) Process Gain	PASS	Site 1
	3.2 (10) Number of Carriers	N/A*	N/A
	3.2 (11) Dwell Time	N/A*	N/A
	3.2 (6) Spurious Emissions	PASS	Site 1
Receiver requirements	3.5 (1) Secondary Radiated Emissions	PASS	Site 1
	3.4 (1) Interference prevention function	PASS	Site 1

NOTE 1: Measurement taken is within the measurement uncertainty of measurement system.

NOTE 2: "*" N/A is an abbreviation for Not Applicable.

NOTE 3: Test method: MIC notification. No.88 of 2004, Annex 43.

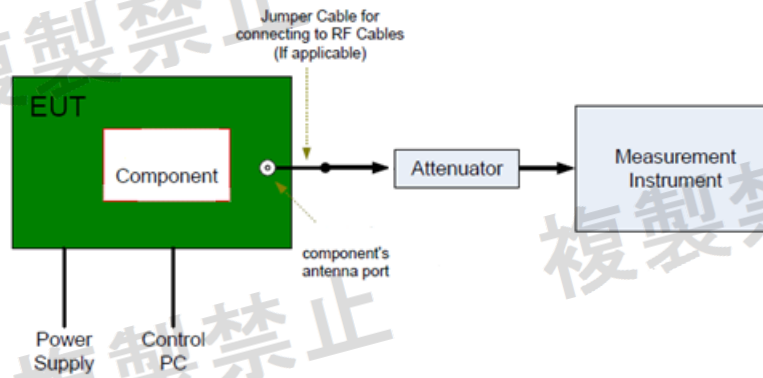
3 Technical Requirement

3.1 Antenna Power

3.1.1 Test Method

1. Connect EUT test port to spectrum analyzer.
2. Set the EUT to transmit maximum output power at 2.4GHz.
3. Then set the EUT to transmit at Highest, Middle, and Lowest frequency and measure the conducted output power separately.
4. RBW=1MHz, VBW $\geq$ RBW, Sweep = auto, Detector function = Positive peak, Trace = max hold
5. Repeat above procedures until all frequencies measured were complete.

3.1.2 Test Setup:



3.1.3 Limit (ARIB STD-T66/ARIB STD-T33, Clause 3.2 (2)-a)

- a. The antenna power of a transmitting equipment (with a frequency band of 2,427 – 2,470.75 MHz, for spread spectrum systems using FH systems, hybrid systems of DS and FH, or hybrid systems of FH and OFDM) shall be such that the mean power within a bandwidth of 1 MHz is 3 mW or less in the case of modulation using a standard coding test signal with the same transmission rate as that of the modulation signal.
- b. The antenna power of a transmitting equipment using a spread spectrum system other than any of those in “a” and the OFDM system shall be such that the mean power within a bandwidth of 1 MHz is 10 mW or less in the case of modulation using a standard coding test signal with the same transmission rate as that of the modulation signal.

3.1.4 Test result

Antenna Power							
Test Condition	TestMode	Antenna	Freq (MHz)	Result (dBm)	Result(mW)	Limit (mW)	Verdict
NTNV	GFSK-2.4M	Ant1	2402	0.53	1.130	≤10	PASS
			2442	-0.45	0.902	≤10	PASS
			2478	-1.78	0.664	≤10	PASS
	GFSK-1.2M	Ant1	2402	0.71	1.178	≤10	PASS
			2442	-0.23	0.948	≤10	PASS
			2478	-1.56	0.698	≤10	PASS
	GFSK-0.6M	Ant1	2402	0.61	1.151	≤10	PASS
			2442	-0.18	0.959	≤10	PASS
			2478	-1.53	0.703	≤10	PASS
NTLV	GFSK-2.4M	Ant1	2402	0.88	1.225	≤10	PASS
			2442	-0.15	0.966	≤10	PASS
			2478	-1.62	0.689	≤10	PASS
	GFSK-1.2M	Ant1	2402	1.15	1.303	≤10	PASS
			2442	0.23	1.054	≤10	PASS
			2478	-1.35	0.733	≤10	PASS
	GFSK-0.6M	Ant1	2402	1.05	1.274	≤10	PASS
			2442	0.23	1.054	≤10	PASS
			2478	-0.96	0.802	≤10	PASS
NTHV	GFSK-2.4M	Ant1	2402	0.38	1.091	≤10	PASS
			2442	-0.55	0.881	≤10	PASS
			2478	-1.79	0.662	≤10	PASS
	GFSK-1.2M	Ant1	2402	0.61	1.151	≤10	PASS
			2442	-0.34	0.925	≤10	PASS
			2478	-1.58	0.695	≤10	PASS
	GFSK-0.6M	Ant1	2402	0.47	1.114	≤10	PASS
			2442	-0.28	0.938	≤10	PASS
			2478	-1.54	0.701	≤10	PASS

EIRP							
TestCondi- tion	Test- Mode	Antenna	Freq (MHz)	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
NTNV	GFSK- 2.4M	Ant1	2402	0.53	5.53	≤12.14	PASS
			2442	-0.45	4.55	≤12.14	PASS
			2478	-1.78	3.22	≤12.14	PASS
	GFSK- 1.2M	Ant1	2402	0.71	5.71	≤12.14	PASS
			2442	-0.23	4.77	≤12.14	PASS
			2478	-1.56	3.44	≤12.14	PASS
	GFSK- 0.6M	Ant1	2402	0.61	5.61	≤12.14	PASS
			2442	-0.18	4.82	≤12.14	PASS
			2478	-1.53	3.47	≤12.14	PASS
NTLV	GFSK- 2.4M	Ant1	2402	0.88	5.88	≤12.14	PASS
			2442	-0.15	4.85	≤12.14	PASS
			2478	-1.62	3.38	≤12.14	PASS
	GFSK- 1.2M	Ant1	2402	1.15	6.15	≤12.14	PASS
			2442	0.23	5.23	≤12.14	PASS
			2478	-1.35	3.65	≤12.14	PASS
	GFSK- 0.6M	Ant1	2402	1.05	6.05	≤12.14	PASS
			2442	0.23	5.23	≤12.14	PASS
			2478	-0.96	4.04	≤12.14	PASS
NTHV	GFSK- 2.4M	Ant1	2402	0.38	5.38	≤12.14	PASS
			2442	-0.55	4.45	≤12.14	PASS
			2478	-1.79	3.21	≤12.14	PASS
	GFSK- 1.2M	Ant1	2402	0.61	5.61	≤12.14	PASS
			2442	-0.34	4.66	≤12.14	PASS
			2478	-1.58	3.42	≤12.14	PASS
	GFSK- 0.6M	Ant1	2402	0.47	5.47	≤12.14	PASS
			2442	-0.28	4.72	≤12.14	PASS
			2478	-1.54	3.46	≤12.14	PASS

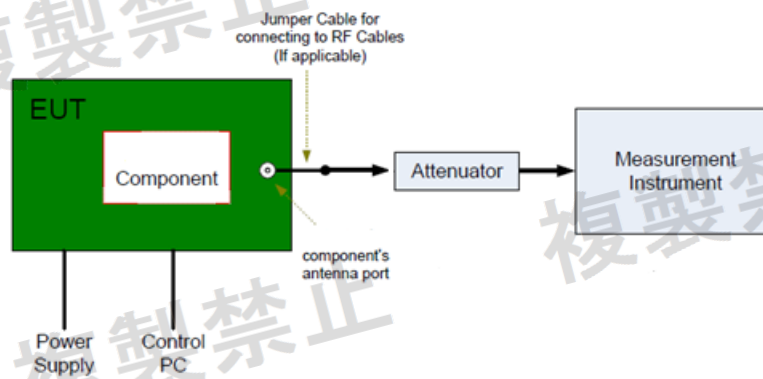
3.2 Tolerances for Antenna Power

3.2.1 Test Method

6. Connect EUT test port to spectrum analyzer.
7. Set the EUT to transmit maximum output power at 2.4GHz.
8. Then set the EUT to transmit at Highest, Middle, and Lowest frequency and measure the conducted output power separately.
9. RBW=1MHz, VBW $\geq$ RBW, Sweep = auto, Detector function = Average, Meas=channel power
Meas setup=1MHz, Trace = max hold
10. Repeat above procedures until all frequencies measured were complete.

3.2.2 Test Setup:

The WIFI component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



3.2.3 Limit (ARIB STD-T66/ARIB STD-T33, Clause 3.2 (3))

Upper limits of the tolerance for antenna power shall be 20%, respectively. Note that they represent the tolerance for the maximum rated antenna power and that no upper and lower limits of the tolerance are regulated in the case of antenna power reduction for communications reasons.

3.2.4 Test result

Tolerance								
Test Condition	Test Mode	Antenna	Freq (MHz)	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	GFSK-2.4M	Ant1	2402	1.130	10	-88.70	+20	PASS
			2442	0.902	10	-90.98	+20	PASS
			2478	0.664	10	-93.36	+20	PASS
	GFSK-1.2M	Ant1	2402	1.178	10	-88.22	+20	PASS
			2442	0.948	10	-90.52	+20	PASS
			2478	0.698	10	-93.02	+20	PASS
	GFSK-0.6M	Ant1	2402	1.151	10	-88.49	+20	PASS
			2442	0.959	10	-90.41	+20	PASS
			2478	0.703	10	-92.97	+20	PASS
NTLV	GFSK-2.4M	Ant1	2402	1.225	10	-87.75	+20	PASS
			2442	0.966	10	-90.34	+20	PASS
			2478	0.689	10	-93.11	+20	PASS
	GFSK-1.2M	Ant1	2402	1.303	10	-86.97	+20	PASS
			2442	1.054	10	-89.46	+20	PASS
			2478	0.733	10	-92.67	+20	PASS
	GFSK-0.6M	Ant1	2402	1.274	10	-87.26	+20	PASS
			2442	1.054	10	-89.46	+20	PASS
			2478	0.802	10	-91.98	+20	PASS
NTHV	GFSK-2.4M	Ant1	2402	1.091	10	-89.09	+20	PASS
			2442	0.881	10	-91.19	+20	PASS
			2478	0.662	10	-93.38	+20	PASS
	GFSK-1.2M	Ant1	2402	1.151	10	-88.49	+20	PASS
			2442	0.925	10	-90.75	+20	PASS
			2478	0.695	10	-93.05	+20	PASS
	GFSK-0.6M	Ant1	2402	1.114	10	-88.86	+20	PASS
			2442	0.938	10	-90.62	+20	PASS
			2478	0.701	10	-92.99	+20	PASS

Note: Deviation = (Output power – Declared Output Power) / Declared Output Power * 100%

3.2.5 Result

The equipment met the requirement of this clause.

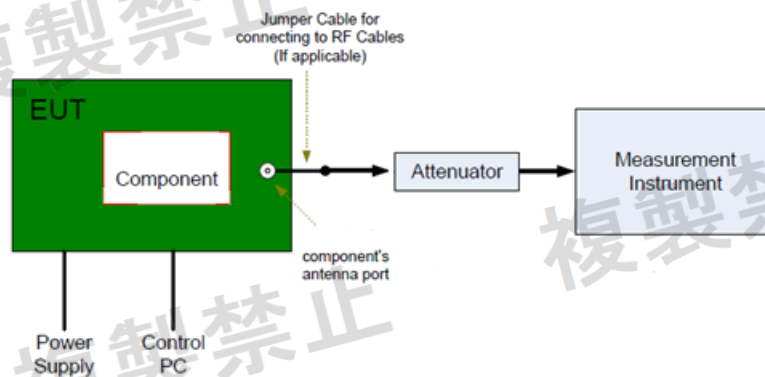
3.3 Frequency Tolerance

3.3.1 Test Method:

1. Connect EUT test port to spectrum analyzer.
2. Set the EUT to transmit maximum output power at 2.4GHz.
3. Then set the EUT to transmit at Highest, Middle, and Lowest frequency and measure the conducted output power separately.
4. RBW=10kHz, VBW $\geq$ RBW, Sweep = auto, Detector function = peak, Trace = max hold
5. Repeat above procedures until all frequencies measured were complete.

3.3.2 Test Setup:

The WIFI component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



3.3.3 Limit (ARIB STD-T66/ ARIB STD-T33, Clause 3.2 (4))

Tolerance of frequency: $\pm 50 \times 10^{-6}$.

3.3.4 Test Result

TestCondition	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	Ant1	2402	-13.73855	±50	PASS
		2442	-14.74202	±50	PASS
		2478	-14.52785	±50	PASS
NTLV	Ant1	2402	-13.73855	±50	PASS
		2442	-14.74202	±50	PASS
		2478	-14.52785	±50	PASS
NTHV	Ant1	2402	-14.98751	±50	PASS
		2442	-14.74202	±50	PASS
		2478	-14.52785	±50	PASS

Note: Frequency Tolerance (ppm) = [Measurement Frequency - Center Frequency] / Center Frequency*10⁶

Test Result: Pass

Please refer to the appendix A for test plots
The equipment met the requirement of this clause.

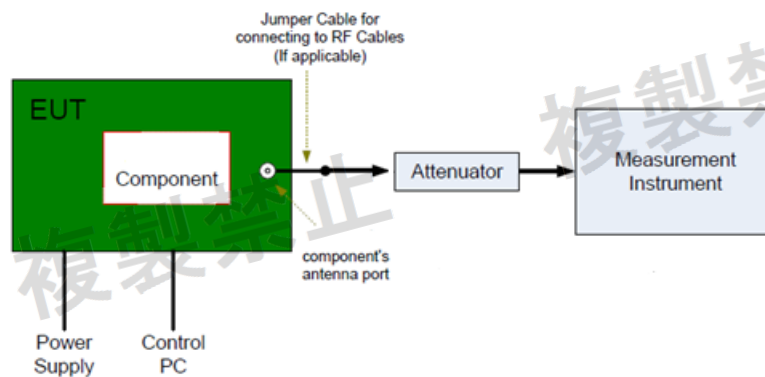
3.4 Occupied Frequency Bandwidth

3.4.1 Test Method:

1. Connect EUT test port to spectrum analyzer.
2. Set the EUT to transmit maximum output power at 2.4GHz.
3. Then set the EUT to transmit at Highest, Middle, and Lowest frequency separately.
4. Set Occupied bandwidth 99%
5. Set RBW=300KHz , VBW $\geq$ RBW.
6. Set Sweep = auto.
7. Set Detector function = peak.
8. Allow the trace to stabilize.
9. Repeat above procedures until all frequencies measured were complete.

3.4.2 Test Setup:

The WIFI component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



3.4.3 Limit (ARIB STD-T66/ARIB STD-T33, Clause 3.2 (7))

Permissible value for occupied bandwidth using the FH system, a hybrid system combining DS and FH systems, or a hybrid system combining FH and OFDM systems shall be 83.5 MHz or less, while necessary bandwidth (minimum occupied bandwidth sufficient to ensure information transmission of required quality at a required transmission rate for the system used under specified conditions for a given emission type) using a system other than any of the above shall be 26 MHz or less.

3.4.4 Test Result

TestCondition	Test-Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	GFSK-2.4M	Ant1	2402	2.296	≤26	PASS
			2442	2.306	≤26	PASS
			2478	2.322	≤26	PASS
	GFSK-1.2M	Ant1	2402	1.110	≤26	PASS
			2442	1.119	≤26	PASS
			2478	1.133	≤26	PASS
	GFSK-0.6M	Ant1	2402	0.904	≤26	PASS
			2442	0.910	≤26	PASS
			2478	0.918	≤26	PASS
NTLV	GFSK-2.4M	Ant1	2402	2.295	≤26	PASS
			2442	2.305	≤26	PASS
			2478	2.322	≤26	PASS
	GFSK-1.2M	Ant1	2402	1.111	≤26	PASS
			2442	1.118	≤26	PASS
			2478	1.131	≤26	PASS
	GFSK-0.6M	Ant1	2402	0.903	≤26	PASS
			2442	0.910	≤26	PASS
			2478	0.919	≤26	PASS
NTHV	GFSK-2.4M	Ant1	2402	2.296	≤26	PASS
			2442	2.304	≤26	PASS
			2478	2.322	≤26	PASS
	GFSK-1.2M	Ant1	2402	1.110	≤26	PASS
			2442	1.117	≤26	PASS
			2478	1.131	≤26	PASS
	GFSK-0.6M	Ant1	2402	0.904	≤26	PASS
			2442	0.910	≤26	PASS
			2478	0.920	≤26	PASS

Test Result: Pass

Please refer to the appendix C for test plots
The equipment met the requirement of this clause.

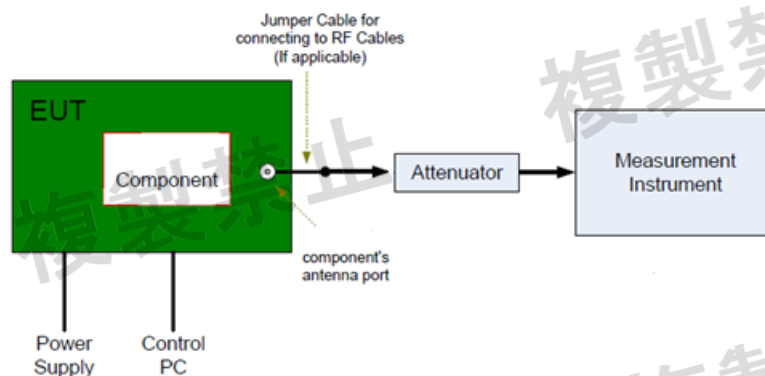
3.5 Spread Bandwidth and spreading factor

3.5.1 Test Method:

1. Connect EUT test port to spectrum analyzer.
2. Set the EUT to transmit maximum output power at 2.4GHz.
3. Then set the EUT to transmit at Highest, Middle, and Lowest frequency separately.
4. Set Occupied bandwidth 90%
5. Set analyzer center frequency to DTS channel center frequency.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Repeat above procedures until all frequencies measured were complete.

3.5.2 Test Setup:

The WIFI component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



3.5.3 Limit (ARIB STD-T66/ARIB STD-T33, Clause 3.2 (8))

In spread spectrum systems, spread bandwidth (which refers to a frequency bandwidth with an upper limit and lower limit such that each of the mean powers radiated above the upper frequency limit and below the lower frequency limit is equal to 5 % of the total mean power radiated; this also applies hereafter) shall be 500 kHz or more.

Process gain (value obtained by dividing the spread bandwidth by a frequency equal to the transmission rate of the modulation signal; this also applies hereafter) in the spread spectrum system shall be 5 or more.

3.5.4 Test Result

TestCondition	Test-Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	GFSK-2.4M	Ant1	2402	1.386	≥0.5	PASS
			2442	1.392	≥0.5	PASS
			2478	1.400	≥0.5	PASS
	GFSK-1.2M	Ant1	2402	0.735	≥0.5	PASS
			2442	0.737	≥0.5	PASS
			2478	0.740	≥0.5	PASS
	GFSK-0.6M	Ant1	2402	0.612	≥0.5	PASS
			2442	0.613	≥0.5	PASS
			2478	0.615	≥0.5	PASS
NTLV	GFSK-2.4M	Ant1	2402	1.388	≥0.5	PASS
			2442	1.391	≥0.5	PASS
			2478	1.399	≥0.5	PASS
	GFSK-1.2M	Ant1	2402	0.736	≥0.5	PASS
			2442	0.738	≥0.5	PASS
			2478	0.741	≥0.5	PASS
	GFSK-0.6M	Ant1	2402	0.611	≥0.5	PASS
			2442	0.612	≥0.5	PASS
			2478	0.615	≥0.5	PASS
NTHV	GFSK-2.4M	Ant1	2402	1.388	≥0.5	PASS
			2442	1.393	≥0.5	PASS
			2478	1.400	≥0.5	PASS
	GFSK-1.2M	Ant1	2402	0.736	≥0.5	PASS
			2442	0.738	≥0.5	PASS
			2478	0.741	≥0.5	PASS
	GFSK-0.6M	Ant1	2402	0.612	≥0.5	PASS
			2442	0.613	≥0.5	PASS
			2478	0.614	≥0.5	PASS

Test Result: Pass

Please refer to the appendix D for test plots
The equipment met the requirement of this clause.

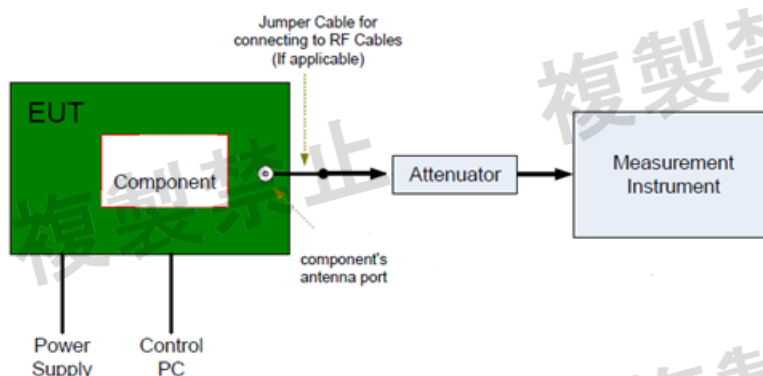
3.6 Transmitter Spurious Emissions (Conducted) (For transmitter)

Test Method:

1. Connect EUT test port to spectrum analyzer.
2. Set the EUT to transmit maximum output power at 2.4GHz.
3. Then set the EUT to transmit at Highest, Middle, and Lowest frequency separately.
4. Set Frequency range and limit: $2,387\text{MHz} \leq f \leq 2,400\text{MHz}$ and $2,483.5\text{MHz} < f \leq 2,496.5\text{MHz}$ 25 μW or less b. $2,387\text{MHz} > f$ and $2,496.5\text{MHz} < f$ 2.5 μW or less
5. Set RBW = 1MHz, VBW $\geq$ RBW.
6. Set Sweep = auto.
7. Set Detector function = peak.
8. Allow the trace to stabilize.
9. Repeat above procedures until all frequencies measured were complete.

Test Setup:

The WIFI component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



3.6.1 Limit (ARIB STD-T66/ARIB STD-T33, Clause 3.2 (6))

ARIB STD-T66

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows: a. $2,387\text{MHz} \leq f \leq 2,400\text{MHz}$ and $2,483.5\text{MHz} < f \leq 2,496.5\text{MHz}$ 25 μW or less b. $2,387\text{MHz} > f$ and $2,496.5\text{MHz} < f$ 2.5 μW or less.

ARIB STD-T33

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows: a. $2,458\text{MHz} \leq f \leq 2,471\text{MHz}$ and $2,497\text{MHz} < f \leq 2,510\text{MHz}$ 25 μW or less b. $2,458\text{MHz} > f$ and $2,510\text{MHz} < f$ 2.5 μW or less.

3.6.2 Test Result

TestCondition	Test-Mode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	GFSK-2.4M	Ant1	2402	30~1000	807.21	-47.67	≤-26	0.01710	≤2.5	PASS
				1000~2387	2375.90	-46.63	≤-26	0.02173	≤2.5	PASS
				2387~2400	2400.00	-21.82	≤-16	6.57658	≤25	PASS
				2483.5~2496.5	2484.70	-36.22	≤-16	0.23878	≤25	PASS
				2496.5~13000	3767.95	-44.22	≤-26	0.03784	≤2.5	PASS
			2442	30~1000	916.34	-47.23	≤-26	0.01892	≤2.5	PASS
				1000~2387	2263.21	-46.51	≤-26	0.02234	≤2.5	PASS
				2387~2400	2392.30	-36.72	≤-16	0.21281	≤25	PASS
				2483.5~2496.5	2491.78	-36.68	≤-16	0.21478	≤25	PASS
				2496.5~13000	4943.82	-44.27	≤-26	0.03741	≤2.5	PASS
			2478	30~1000	851.59	-48.44	≤-26	0.01432	≤2.5	PASS
				1000~2387	2374.17	-46.23	≤-26	0.02382	≤2.5	PASS
				2387~2400	2394.66	-36.72	≤-16	0.21281	≤25	PASS
				2483.5~2496.5	2494.29	-36.55	≤-16	0.22131	≤25	PASS
				2496.5~13000	3767.95	-44.40	≤-26	0.03631	≤2.5	PASS
	GFSK-1.2M	Ant1	2402	30~1000	873.17	-47.96	≤-26	0.01600	≤2.5	PASS
				1000~2387	2385.27	-46.16	≤-26	0.02421	≤2.5	PASS
				2387~2400	2396.68	-35.44	≤-16	0.28576	≤25	PASS
				2483.5~2496.5	2485.84	-36.20	≤-16	0.23988	≤25	PASS
				2496.5~13000	3736.44	-43.68	≤-26	0.04285	≤2.5	PASS
			2442	30~1000	761.87	-47.89	≤-26	0.01626	≤2.5	PASS
				1000~2387	2383.88	-46.52	≤-26	0.02228	≤2.5	PASS
				2387~2400	2389.15	-36.69	≤-16	0.21429	≤25	PASS
				2483.5~2496.5	2489.21	-36.33	≤-16	0.23281	≤25	PASS
				2496.5~13000	3731.71	-43.91	≤-26	0.04064	≤2.5	PASS
			2478	30~1000	673.60	-49.03	≤-26	0.01250	≤2.5	PASS
				1000~2387	2352.67	-46.96	≤-26	0.02014	≤2.5	PASS
				2387~2400	2395.66	-36.93	≤-16	0.20277	≤25	PASS
				2483.5~2496.5	2488.60	-36.36	≤-16	0.23121	≤25	PASS
				2496.5~13000	10132.54	-44.82	≤-26	0.03296	≤2.5	PASS
	GFSK-0.6M	Ant1	2402	30~1000	726.22	-48.08	≤-26	0.01556	≤2.5	PASS
				1000~2387	2287.48	-46.23	≤-26	0.02382	≤2.5	PASS
				2387~2400	2395.98	-36.73	≤-16	0.21232	≤25	PASS
				2483.5~2496.5	2495.24	-36.30	≤-16	0.23442	≤25	PASS
				2496.5~13000	4952.22	-44.29	≤-26	0.03724	≤2.5	PASS
			2442	30~1000	770.60	-47.94	≤-26	0.01607	≤2.5	PASS
				1000~2387	2364.11	-46.39	≤-26	0.02296	≤2.5	PASS
				2387~2400	2396.05	-36.79	≤-16	0.20941	≤25	PASS
				2483.5~2496.5	2492.12	-36.16	≤-16	0.24210	≤25	PASS
				2496.5~13000	3815.74	-44.30	≤-26	0.03715	≤2.5	PASS
			2478	30~1000	856.20	-48.60	≤-26	0.01380	≤2.5	PASS
				1000~2387	2329.44	-47.23	≤-26	0.01892	≤2.5	PASS
				2387~2400	2387.97	-36.73	≤-16	0.21232	≤25	PASS
				2483.5~2496.5	2496.39	-36.90	≤-16	0.20417	≤25	PASS
				2496.5~13000	3752.72	-44.62	≤-26	0.03451	≤2.5	PASS
NTLV	GFSK-2.4M	Ant1	2402	30~1000	898.88	-48.63	≤-26	0.01371	≤2.5	PASS
				1000~2387	2368.28	-46.61	≤-26	0.02183	≤2.5	PASS
				2387~2400	2400.00	-21.84	≤-16	6.54636	≤25	PASS
				2483.5~2496.5	2489.50	-35.40	≤-16	0.28840	≤25	PASS
				2496.5~13000	3848.83	-44.17	≤-26	0.03828	≤2.5	PASS
			2442	30~1000	860.32	-48.56	≤-26	0.01393	≤2.5	PASS
				1000~2387	2369.32	-46.23	≤-26	0.02382	≤2.5	PASS
				2387~2400	2388.23	-37.07	≤-16	0.19634	≤25	PASS

Test Report No.: EFGX26070081-IE-01-E01

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NTHV	GFSK-1.2M	Ant1	2478	2483.5~2496.5	2495.34	-36.20	≤-16	0.23988	≤25	PASS
				2496.5~13000	3829.92	-44.17	≤-26	0.03828	≤2.5	PASS
				30~1000	830.74	-47.90	≤-26	0.01622	≤2.5	PASS
				1000~2387	2186.58	-46.68	≤-26	0.02148	≤2.5	PASS
				2387~2400	2396.73	-36.60	≤-16	0.21878	≤25	PASS
				2483.5~2496.5	2484.98	-36.48	≤-16	0.22491	≤25	PASS
			2496.5~13000	3688.65	-44.52	≤-26	0.03532	≤2.5	PASS	
			30~1000	935.74	-48.43	≤-26	0.01435	≤2.5	PASS	
			1000~2387	2351.63	-46.50	≤-26	0.02239	≤2.5	PASS	
			2387~2400	2400.00	-34.01	≤-16	0.39719	≤25	PASS	
	2402	2483.5~2496.5	2484.97	-35.63	≤-16	0.27353	≤25	PASS		
		2496.5~13000	3807.34	-44.25	≤-26	0.03758	≤2.5	PASS		
		30~1000	871.72	-48.66	≤-26	0.01361	≤2.5	PASS		
		1000~2387	2357.87	-46.51	≤-26	0.02234	≤2.5	PASS		
		2387~2400	2387.14	-36.89	≤-16	0.20464	≤25	PASS		
		2483.5~2496.5	2487.00	-36.51	≤-16	0.22336	≤25	PASS		
		2496.5~13000	5136.03	-44.71	≤-26	0.03381	≤2.5	PASS		
		30~1000	929.92	-48.95	≤-26	0.01274	≤2.5	PASS		
		1000~2387	2272.23	-45.77	≤-26	0.02649	≤2.5	PASS		
		2387~2400	2393.68	-37.04	≤-16	0.19770	≤25	PASS		
	2478	2483.5~2496.5	2492.63	-36.67	≤-16	0.21528	≤25	PASS		
		2496.5~13000	3829.39	-44.38	≤-26	0.03648	≤2.5	PASS		
		30~1000	912.94	-48.51	≤-26	0.01409	≤2.5	PASS		
		1000~2387	2131.79	-46.67	≤-26	0.02153	≤2.5	PASS		
		2387~2400	2396.63	-36.20	≤-16	0.23988	≤25	PASS		
		2483.5~2496.5	2493.53	-36.46	≤-16	0.22594	≤25	PASS		
		2496.5~13000	3781.60	-42.68	≤-26	0.05395	≤2.5	PASS		
		30~1000	589.21	-48.65	≤-26	0.01365	≤2.5	PASS		
		1000~2387	2177.91	-46.81	≤-26	0.02084	≤2.5	PASS		
		2387~2400	2387.64	-35.90	≤-16	0.25704	≤25	PASS		
	2442	2483.5~2496.5	2490.03	-36.27	≤-16	0.23605	≤25	PASS		
		2496.5~13000	3811.01	-44.23	≤-26	0.03776	≤2.5	PASS		
		30~1000	862.75	-48.94	≤-26	0.01276	≤2.5	PASS		
		1000~2387	2182.76	-46.14	≤-26	0.02432	≤2.5	PASS		
		2387~2400	2392.38	-36.98	≤-16	0.20045	≤25	PASS		
		2483.5~2496.5	2487.22	-36.15	≤-16	0.24266	≤25	PASS		
		2496.5~13000	3877.19	-44.35	≤-26	0.03673	≤2.5	PASS		
30~1000		712.88	-46.15	≤-26	0.02427	≤2.5	PASS			
1000~2387		2213.28	-45.89	≤-26	0.02576	≤2.5	PASS			
2387~2400		2400.00	-21.67	≤-16	6.80769	≤25	PASS			
2402	2483.5~2496.5	2492.69	-36.66	≤-16	0.21577	≤25	PASS			
	2496.5~13000	8509.75	-43.57	≤-26	0.04395	≤2.5	PASS			
	30~1000	834.86	-48.65	≤-26	0.01365	≤2.5	PASS			
	1000~2387	2366.54	-46.91	≤-26	0.02037	≤2.5	PASS			
	2387~2400	2398.19	-37.27	≤-16	0.18750	≤25	PASS			
	2483.5~2496.5	2494.67	-36.27	≤-16	0.23605	≤25	PASS			
	2496.5~13000	3811.54	-43.81	≤-26	0.04159	≤2.5	PASS			
	30~1000	976.72	-48.67	≤-26	0.01358	≤2.5	PASS			
	1000~2387	2359.61	-46.32	≤-26	0.02333	≤2.5	PASS			
	2387~2400	2394.77	-36.93	≤-16	0.20277	≤25	PASS			
2478	2483.5~2496.5	2492.72	-36.51	≤-16	0.22336	≤25	PASS			
	2496.5~13000	3850.93	-44.03	≤-26	0.03954	≤2.5	PASS			
	30~1000	857.65	-48.56	≤-26	0.01393	≤2.5	PASS			
	1000~2387	2371.05	-46.79	≤-26	0.02094	≤2.5	PASS			
	2387~2400	2388.64	-37.07	≤-16	0.19634	≤25	PASS			
	2483.5~2496.5	2485.42	-36.13	≤-16	0.24378	≤25	PASS			
	2496.5~13000	3757.97	-43.64	≤-26	0.04325	≤2.5	PASS			
	30~1000	831.71	-48.76	≤-26	0.01330	≤2.5	PASS			
	1000~2387	2352.33	-46.50	≤-26	0.02239	≤2.5	PASS			
	GFSK-1.2M	Ant1	2402	30~1000	857.65	-48.56	≤-26	0.01393	≤2.5	PASS
1000~2387				2371.05	-46.79	≤-26	0.02094	≤2.5	PASS	
2387~2400				2388.64	-37.07	≤-16	0.19634	≤25	PASS	
2483.5~2496.5				2485.42	-36.13	≤-16	0.24378	≤25	PASS	
2496.5~13000				3757.97	-43.64	≤-26	0.04325	≤2.5	PASS	
2442			30~1000	831.71	-48.76	≤-26	0.01330	≤2.5	PASS	
			1000~2387	2352.33	-46.50	≤-26	0.02239	≤2.5	PASS	

Test Report No.: EFGX26070081-IE-01-E01

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				2387~2400	2392.12	-36.92	≤-16	0.20324	≤25	PASS
				2483.5~2496.5	2486.65	-35.65	≤-16	0.27227	≤25	PASS
				2496.5~13000	4010.58	-44.69	≤-26	0.03396	≤2.5	PASS
			2478	30~1000	899.61	-48.91	≤-26	0.01285	≤2.5	PASS
				1000~2387	2279.51	-46.60	≤-26	0.02188	≤2.5	PASS
				2387~2400	2391.67	-36.60	≤-16	0.21878	≤25	PASS
				2483.5~2496.5	2494.26	-36.75	≤-16	0.21135	≤25	PASS
				2496.5~13000	5047.80	-44.12	≤-26	0.03873	≤2.5	PASS
			2402	30~1000	914.64	-48.65	≤-26	0.01365	≤2.5	PASS
				1000~2387	2307.94	-46.12	≤-26	0.02443	≤2.5	PASS
	2387~2400	2398.34		-36.32	≤-16	0.23335	≤25	PASS		
	2483.5~2496.5	2484.13		-36.04	≤-16	0.24889	≤25	PASS		
	2496.5~13000	3791.06		-44.52	≤-26	0.03532	≤2.5	PASS		
	2442	30~1000	562.53	-48.55	≤-26	0.01396	≤2.5	PASS		
		1000~2387	2370.01	-45.90	≤-26	0.02570	≤2.5	PASS		
		2387~2400	2389.06	-36.42	≤-16	0.22803	≤25	PASS		
		2483.5~2496.5	2490.64	-36.36	≤-16	0.23121	≤25	PASS		
		2496.5~13000	4935.41	-44.48	≤-26	0.03565	≤2.5	PASS		
	2478	30~1000	823.95	-48.19	≤-26	0.01517	≤2.5	PASS		
		1000~2387	2380.76	-46.47	≤-26	0.02254	≤2.5	PASS		
		2387~2400	2398.19	-36.81	≤-16	0.20845	≤25	PASS		
		2483.5~2496.5	2496.36	-36.77	≤-16	0.21038	≤25	PASS		
		2496.5~13000	3797.36	-43.72	≤-26	0.04246	≤2.5	PASS		

3.6.3 Result

Please refer to the appendix E for test plots
The equipment met the requirement of this clause.

3.7 Secondary Radiated Emissions (Conducted) (For receiver)

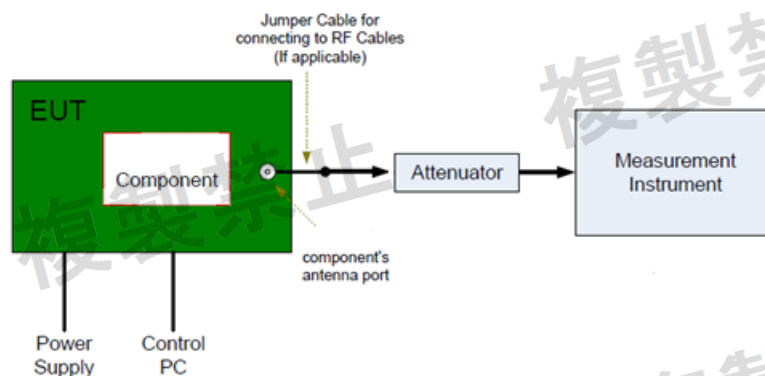
Test Method:

The test method was referred to the subclause 11.13.3.4 of ANSI C63.10-2013.

1. Connect EUT test port to spectrum analyzer.
2. Set the EUT to transmit maximum output power at 2.4GHz.
3. Then set the EUT to transmit at Highest, Middle, and Lowest frequency separately.
4. Set Frequency range and limit: 30MHz - 1 GHz and 20 nW or 1 GHz – 13GHz
5. Set RBW $\geq$ 1MHz, VBW $\geq$ RBW.
6. Set Sweep = auto.
7. Set Detector function = peak.
8. Allow the trace to stabilize.
9. Repeat above procedures until all frequencies measured were complete.

Test Setup:

The WIFI component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



3.7.1 Limit (ARIB STD-T66/ARIB STD-T33, Clause 3.5 (1))

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

3.7.2 Test Result

TestCondition	Test-Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	GFSK-2.4M	Ant1	2402	30~1000	900.09	-69.80	≤-54	0.10471	≤4	PASS
				1000~12500	3797.95	-64.14	≤-47	0.38548	≤20	PASS
			2442	30~1000	833.16	-70.30	≤-54	0.09333	≤4	PASS
				1000~12500	3823.25	-63.87	≤-47	0.41020	≤20	PASS
			2478	30~1000	911.25	-69.29	≤-54	0.11776	≤4	PASS
				1000~12500	3878.45	-64.65	≤-47	0.34277	≤20	PASS
	GFSK-1.2M	Ant1	2402	30~1000	728.89	-70.19	≤-54	0.09572	≤4	PASS
				1000~12500	3830.15	-64.60	≤-47	0.34674	≤20	PASS
			2442	30~1000	897.67	-70.01	≤-54	0.09977	≤4	PASS
				1000~12500	4977.85	-64.74	≤-47	0.33574	≤20	PASS
			2478	30~1000	899.12	-69.22	≤-54	0.11967	≤4	PASS
				1000~12500	3759.43	-64.78	≤-47	0.33266	≤20	PASS
NTLV	GFSK-2.4M	Ant1	2402	30~1000	905.43	-70.18	≤-54	0.09594	≤4	PASS
				1000~12500	3751.95	-64.88	≤-47	0.32509	≤20	PASS
			2442	30~1000	920.46	-70.32	≤-54	0.09290	≤4	PASS
				1000~12500	3780.13	-64.66	≤-47	0.34198	≤20	PASS
			2478	30~1000	838.98	-70.47	≤-54	0.08974	≤4	PASS
				1000~12500	3780.13	-63.80	≤-47	0.41687	≤20	PASS
	GFSK-1.2M	Ant1	2402	30~1000	945.68	-70.45	≤-54	0.09016	≤4	PASS
				1000~12500	3793.35	-64.68	≤-47	0.34041	≤20	PASS
			2442	30~1000	927.74	-70.35	≤-54	0.09226	≤4	PASS
				1000~12500	3812.33	-64.42	≤-47	0.36141	≤20	PASS
			2478	30~1000	848.20	-69.96	≤-54	0.10093	≤4	PASS
				1000~12500	3766.33	-64.72	≤-47	0.33729	≤20	PASS
NTHV	GFSK-0.6M	Ant1	2402	30~1000	868.57	-69.77	≤-54	0.10544	≤4	PASS
				1000~12500	3829.00	-64.75	≤-47	0.33497	≤20	PASS
			2442	30~1000	871.96	-70.21	≤-54	0.09528	≤4	PASS
				1000~12500	3720.33	-64.62	≤-47	0.34514	≤20	PASS
			2478	30~1000	903.49	-70.31	≤-54	0.09311	≤4	PASS
				1000~12500	4934.73	-64.47	≤-47	0.35727	≤20	PASS
	GFSK-2.4M	Ant1	2402	30~1000	900.58	-69.95	≤-54	0.10116	≤4	PASS
				1000~12500	3828.43	-64.39	≤-47	0.36392	≤20	PASS
			2442	30~1000	948.59	-69.73	≤-54	0.10641	≤4	PASS
				1000~12500	3758.85	-64.78	≤-47	0.33266	≤20	PASS
			2478	30~1000	899.61	-70.25	≤-54	0.09441	≤4	PASS
				1000~12500	3762.30	-64.81	≤-47	0.33037	≤20	PASS
NTHV	GFSK-1.2M	Ant1	2402	30~1000	874.39	-70.68	≤-54	0.08551	≤4	PASS
				1000~12500	3807.73	-63.45	≤-47	0.45186	≤20	PASS
			2442	30~1000	917.07	-69.89	≤-54	0.10257	≤4	PASS
				1000~12500	3843.95	-64.08	≤-47	0.39084	≤20	PASS
			2478	30~1000	866.14	-69.31	≤-54	0.11722	≤4	PASS
				1000~12500	3831.30	-64.23	≤-47	0.37757	≤20	PASS
	GFSK-0.6M	Ant1	2402	30~1000	850.14	-70.17	≤-54	0.09616	≤4	PASS
				1000~12500	3801.40	-64.46	≤-47	0.35810	≤20	PASS
			2442	30~1000	883.12	-68.52	≤-54	0.14060	≤4	PASS
				1000~12500	3740.45	-65.29	≤-47	0.29580	≤20	PASS
			2478	30~1000	866.63	-69.81	≤-54	0.10447	≤4	PASS
				1000~12500	3787.60	-64.68	≤-47	0.34041	≤20	PASS
NTHV	GFSK-2.4M	Ant1	2402	30~1000	922.89	-70.43	≤-54	0.09057	≤4	PASS
				1000~12500	3800.83	-63.54	≤-47	0.44259	≤20	PASS
			2442	30~1000	838.01	-70.26	≤-54	0.09419	≤4	PASS
				1000~12500	3789.90	-64.12	≤-47	0.38726	≤20	PASS
			2478	30~1000	736.16	-70.06	≤-54	0.09863	≤4	PASS
				1000~12500	3823.83	-64.98	≤-47	0.31769	≤20	PASS

Test Report No.: EFGX26070081-IE-01-E01

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3.7.3 Result

Please refer to the appendix F for test plots
The equipment met the requirement of this clause.

3.8 Interference prevention function

3.8.1 Limit

Item	Limits
Identification Code	≥48 bits

Measuring ID code Software
MAC IP List: MAC Scan

3.8.2 Test Procedure

1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes from the counterpart. d. check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

3.8.3 Conditions of Equipment under Test

Required normal mode of the applicable equipment (EUT)

3.8.4 TEST RESULTS

The radio equipment has an identification code. A verification of this code is done before a communication channel is established

The equipment meet the requirement of this clause.

End