

TEST REPORT

For 2.4G



Report No. : **CHTW24110026** **Report Verification:**

Project No...... : **SHT2410031602W**

FCC ID..... : **2BMJQ-GPF002**

Applicant's name..... : **DENJOY DENTAL CO.,LTD**

Address..... : F4, Building A4, Lugu Medical Device Park, No.229 Guyuan Road, Changsha, 410205 P. R. China

Product Name : **Integrated Endo System**

Trade Mark : -

Model No. : Meet Fill

Listed Model(s) : -

Standard : **FCC CFR Title 47 Part 15 Subpart C § 15.247**

Date of receipt of test sample..... : Oct.29, 2024

Date of testing..... : Dec.11, 2024 - Dec.18, 2024

Date of issue..... : Dec.18, 2024

Result..... : **PASS**

Compiled by
(Position+Printed name+Signature): File administrators Kiki Kong

Supervised by
(Position+Printed name+Signature): Project Engineer Kiki Kong

Approved by
(Position+Printed name+Signature): RF Manager Xu yang

Kiki Kong

Kiki Kong

Xu Yang

Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

Address..... : Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- [FCC CFR Title 47 Part 15 Subpart C § 15.247](#): Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- [ANSI C63.10:2020](#): American National Standard for Testing Unlicensed Wireless Devices
- [KDB 558074 D01 15.247 Meas Guidance v05r02](#): Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

Revision No.	Date of issue	Description
N/A	2024-12-18	Original

2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result	Test Engineer
5.1	Antenna Requirement	15.203/15.247 (c)	PASS	Chenxin Ling
5.2	AC Conducted Emission	15.207	PASS	YATING.CHEN
5.3	Peak Output Power	15.247 (b)(1)	PASS	Chenxin Ling
5.4	20 dB Bandwidth	15.247 (a)(1)	PASS	Chenxin Ling
5.5	99% Occupied Bandwidth	-	PASS ^{*1}	Chenxin Ling
5.6	Carrier Frequency Separation	15.247 (a)(1)	PASS	Chenxin Ling
5.7	Hopping Channel Number	15.247 (a)(1)	PASS	Chenxin Ling
5.8	Dwell Time	15.247 (a)(1)	PASS	Chenxin Ling
5.9	Duty Cycle Correction Factor	-	PASS ^{*1}	Chenxin Ling
5.10	Pseudorandom Frequency Hopping Sequence	15.247(b)(4)	PASS	Chenxin Ling
5.11	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS	Chenxin Ling
5.12	Radiated Band Edge Emission	15.205/15.209	PASS	Yifan Wang
5.13	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS	Yifan Wang

Note:

- The measurement uncertainty is not included in the test result.
- ^{*1}: No requirement on standard, only report these test data.

3. SUMMARY

3.1. Client Information

Applicant:	DENJOY DENTAL CO.,LTD
Address:	F4, Building A4, Lugu Medical Device Park, No.229 Guyuan Road, Changsha, 410205 P. R. China
Manufacturer:	DENJOY DENTAL CO.,LTD
Address:	F4, Building A4, Lugu Medical Device Park, No.229 Guyuan Road, Changsha, 410205 P. R. China
Factory:	DENJOY DENTAL CO.,LTD
Address:	F4, Building A4, Lugu Medical Device Park, No.229 Guyuan Road, Changsha, 410205 P. R. China

3.2. Product Description

Main unit information:	
Product Name:	Integrated Endo System
Trade Mark:	-
Model No.:	Meet Fill
Listed Model(s):	-
Power supply:	DC 3.7V from Battery
Hardware version:	V1.0
Software version:	V1.0
Accessory unit information:	
Battery information:	JW-Y-2 1ICR18/50 3.7V 2000mAh 7.4Wh

3.3. Radio Specification Description

Modulation:	GFSK
Operation frequency:	2403MHz~2479MHz
Channel number:	16
Antenna type:	PCB Antenna
Antenna gain:	1.80dBi

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China	
Contact information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC Registration Number	762235
	FCC Designation Number	CN1181

4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00(CH-L)	2403	08	2444
01	2409	09	2449
02	2414	10	2454
03	2419	11	2459
04	2423	12	2464
05	2429	13	2469
06	2434	14	2474
07(CH-M)	2439	15(CH-H)	2479

4.2. Descriptions of Test mode

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit.
For Radiated spurious emissions:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

4.3. Test sample information

Test item	HTW sample no.
RF Conducted test items	Refer to the description in the appendix report
RF Radiated test items	YPHT24100316001
EMI test items	YPHT24100316002

Note:

RF Conducted test items: Peak Output Power, 20 dB Bandwidth, 99% Occupied Bandwidth, Carrier Frequency Separation, Hopping Channel Number, Dwell Time, Duty Cycle Correction Factor, Pseudorandom Frequency Hopping Sequence, Conducted Band Edge and Spurious Emission

RF Radiated test items: Radiated Band Edge Emission, Radiated Spurious Emission

EMI test items: AC Conducted Emission

4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?			
✓ Yes			
Item	Equipment	Trade Name	Model No.
1	Desktop charger	-	-
2	Adapter	-	LXCP26-050300D

4.5. Testing environmental condition

Type	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	3.21dB
2	Peak Output Power	1.07
3	Power Spectral Density	1.07
4	6dB Bandwidth	0.002%
5	99% Occupied Bandwidth	0.002%
6	Duty cycle	-
7	Conducted Band Edge and Spurious Emission	1.68dB
8	Radiated Band Edge Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz
9	Radiated Spurious Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.7. Equipment Used during the Test

● RF Conducted test item							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2024/08/27	2025/08/26
●	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2024/08/21	2025/08/20
●	Vector signal generator	R&S	HTWE0244	SMBV100A	260790	2024/5/25	2025/5/24
●	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

● Conducted Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2024/08/12	2025/08/11
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2024/08/12	2025/08/11
●	Protection Network	SCHWARZBECK	HTWE0567	VTSD9561FN	00899	2024/08/12	2025/08/11
●	ISN	FCC	HTWE0148	FCC-TLISN-T2-02	20371	2024/08/12	2025/08/11
●	ISN	FCC	HTWE0150	FCC-TLISN-T8-02	20375	2024/08/12	2025/08/11
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated Emission – 9kHz~30MHz							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2023/04/06	2026/04/05
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2024/08/12	2025/08/11
●	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2024/04/08	2027/04/07
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated Emission - 30MHz~1GHz							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2023/04/06	2026/04/05
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2024/08/12	2025/08/11
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2023/02/22	2026/02/21
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	/	2024/5/24	2025/5/23
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated emission- Above 1GHz							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2023/04/17	2026/04/16
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2024/08/12	2025/08/11
●	Spectrum Analyzer	R&S	HTWE0385	N9020A	MY54486658	2024/08/12	2025/0811
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2023/02/14	2026/02/13
●	Pre-Amplifier	CD	HTWE0071	PAP-0102	12004	2024/06/06	2025/06/05
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0551	SCU18F	100855	2024/06/06	2025/06/05
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

REQUIREMENT

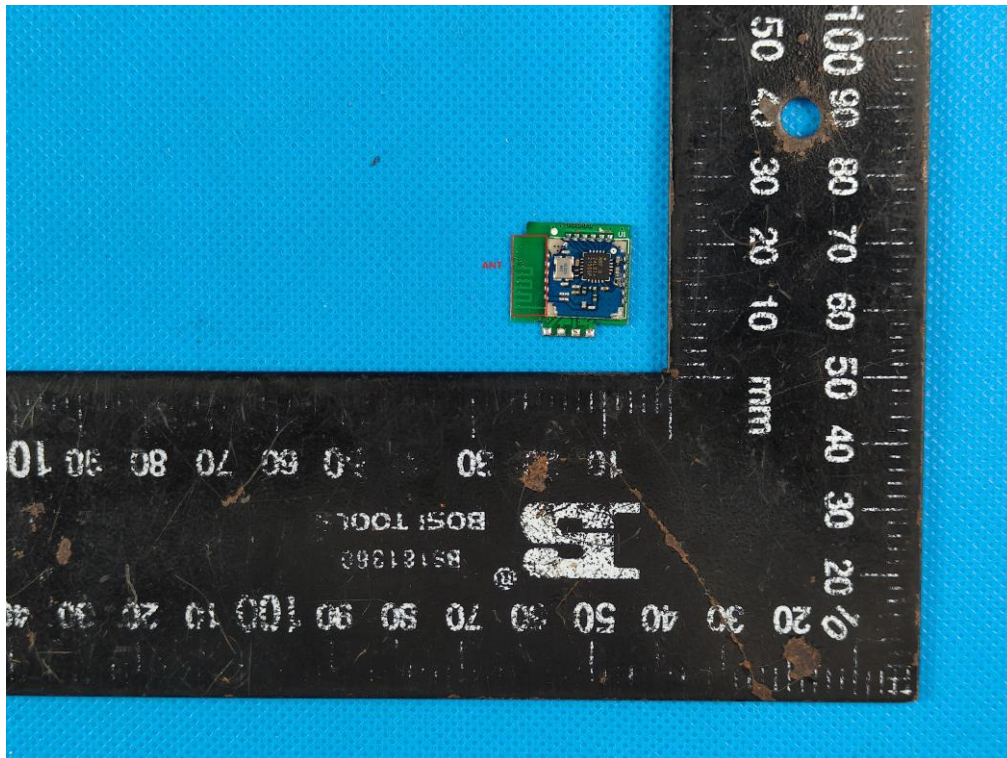
FCC CFR Title 47 Part 15 Subpart C Section 15.203:

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.

TEST RESULT

☒ Passed ☐ Not Applicable

The antenna type is a PCB antenna, Refer to the below antenna photo.



5.2. AC Conducted Emission

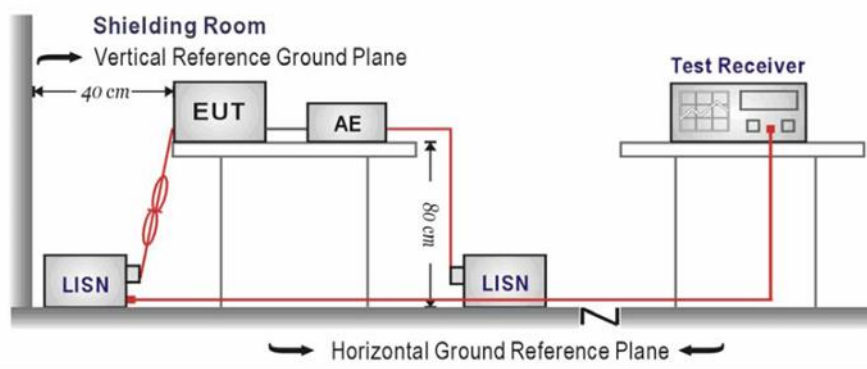
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

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 CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.10 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE

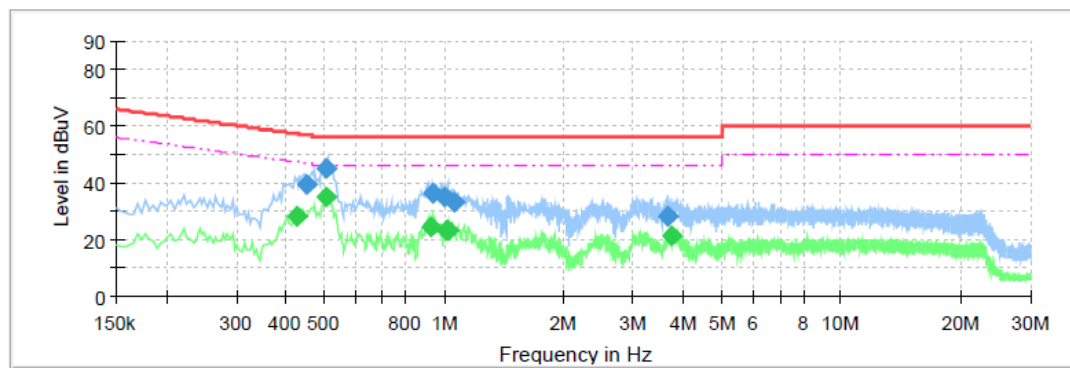
Refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

Test Line:

L

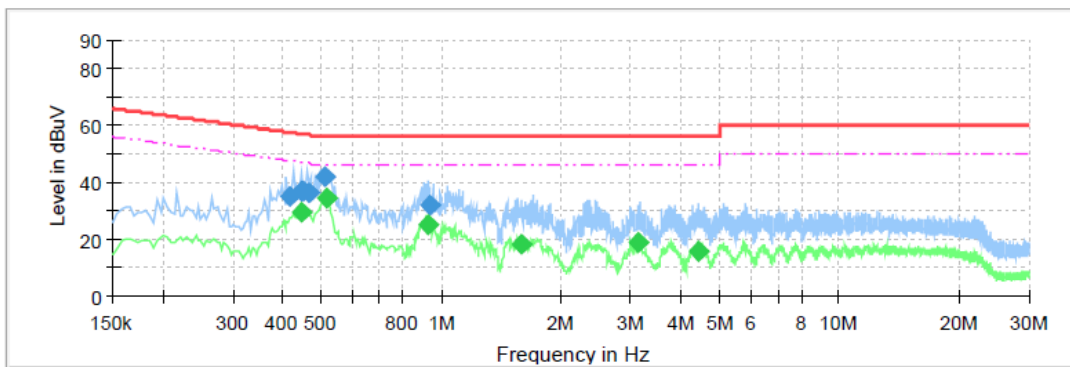


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.4275	---	28.36	47.30	18.94	L1	10.3
0.4515	39.66	---	56.85	17.18	L1	10.3
0.5075	---	34.90	46.00	11.10	L1	10.4
0.5075	44.74	---	56.00	11.26	L1	10.4
0.9235	---	24.07	46.00	21.93	L1	10.5
0.9355	35.98	---	56.00	20.02	L1	10.5
1.0035	34.72	---	56.00	21.28	L1	10.5
1.0155	---	23.20	46.00	22.80	L1	10.5
1.0315	---	22.82	46.00	23.18	L1	10.5
1.0595	33.06	---	56.00	22.94	L1	10.5
3.6435	28.36	---	56.00	27.64	L1	10.6
3.7515	---	21.42	46.00	24.58	L1	10.6

Test Line:

N



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.4195	35.16	---	57.46	22.30	N	10.2
0.4475	37.06	---	56.92	19.86	N	10.2
0.4485	---	29.24	46.90	17.66	N	10.2
0.4515	36.67	---	56.85	20.18	N	10.2
0.4675	36.38	---	56.56	20.18	N	10.2
0.5115	41.59	---	56.00	14.41	N	10.2
0.5155	---	34.24	46.00	11.76	N	10.2
0.9315	---	24.96	46.00	21.04	N	10.2
0.9395	31.59	---	56.00	24.41	N	10.2
1.5835	---	18.17	46.00	27.83	N	10.2
3.1395	---	18.56	46.00	27.44	N	10.3
4.4355	---	15.90	46.00	30.10	N	10.3

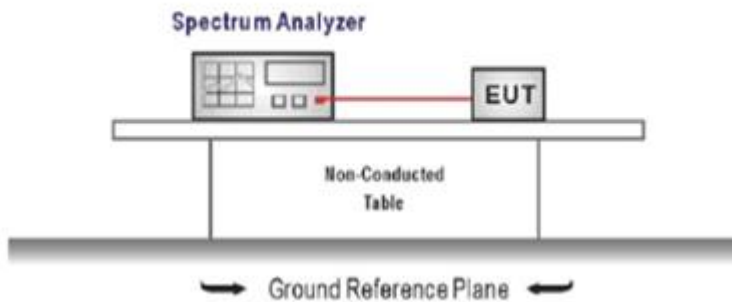
5.3. Peak Output Power

LIMIT

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

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt.
For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the pathloss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
RBW $\geq$ the 20 dB bandwidth of the emission being measured, VBW $\geq$ RBW
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

TEST MODE

Refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

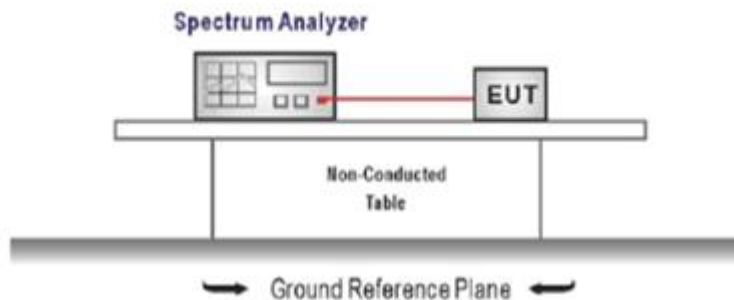
Refer to the appendix report

5.4. 20 dB Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW $\geq$ 1% of the 20 dB bandwidth, VBW $\geq$ RBW
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

TEST MODE

Refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

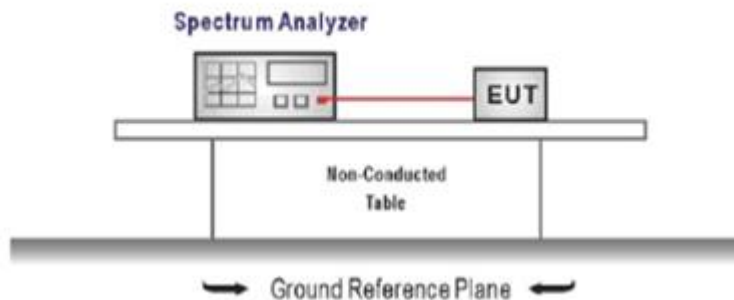
Refer to the appendix report

5.5. 99% Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = channel center frequency
Span $\geq 1.5 \times \text{OBW}$
RBW = 1%~5%OBW
VBW $\geq 3 \times \text{RBW}$
Sweep time = auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

TEST MODE

Refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

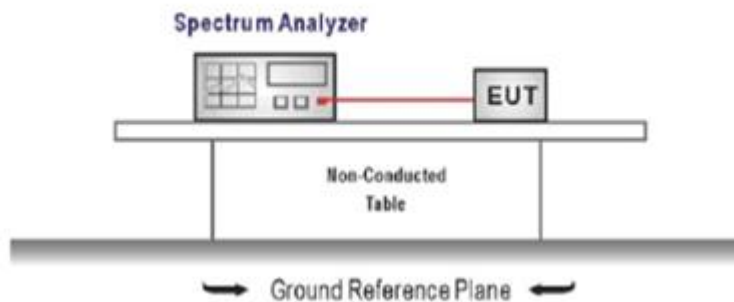
5.6. Carrier Frequencies Separation

LIMIT

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

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels
RBW $\geq$ 1% of the span, VBW $\geq$ RBW
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

TEST MODE

Refer to the clause 4.3

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

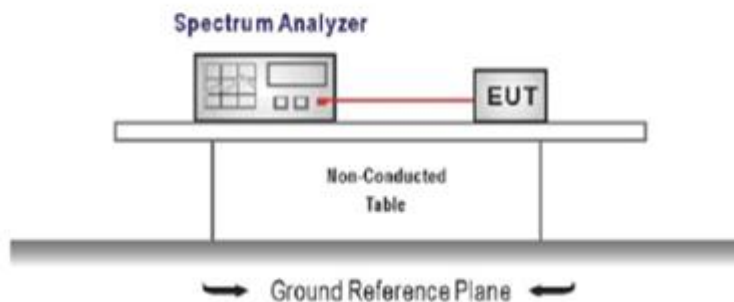
5.7. Hopping Channel Number

LIMIT

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

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least **15** channels.

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = the frequency band of operation
RBW $\geq$ 1% of the span, VBW $\geq$ RBW
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

TEST MODE

Refer to the clause 4.3

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

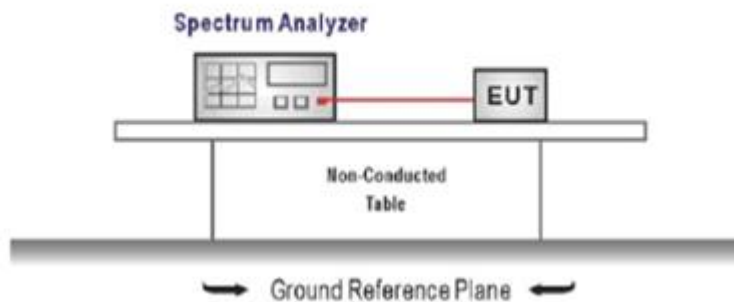
Refer to the appendix report

5.8. Dwell Time

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1): The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = zero span, centered on a hopping channel, RBW= 1 MHz, VBW $\geq$ RBW
Sweep = as necessary to capture the entire dwell time per hopping channel,
Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

TEST MODE

Refer to the clause 4.3

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

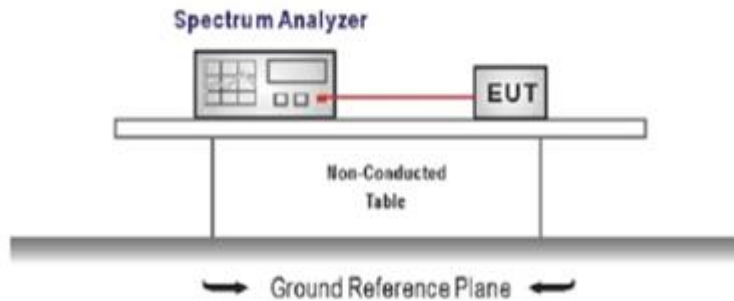
Refer to the appendix report

5.9. Duty Cycle Correction Factor (DCCF)

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = zero span, centered on a hopping channel, RBW= 1 MHz, VBW $\geq$ RBW
Sweep = as necessary to capture the entire dwell time per hopping channel,
Detector function = peak, Trigger mode
4. Measure and record the duty cycle data

TEST MODE

Refer to the clause 4.3

TEST DATA

Refer to the appendix report

5.10. Pseudorandom Frequency Hopping Sequence

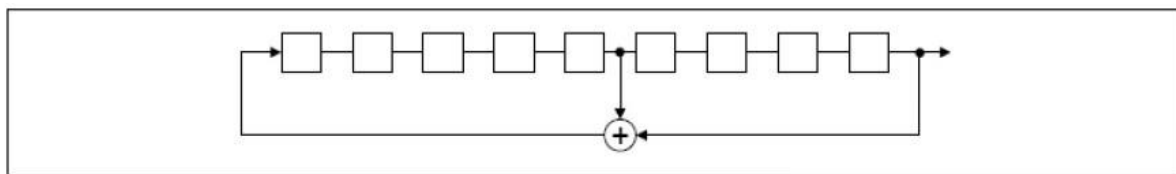
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

TEST RESULTS

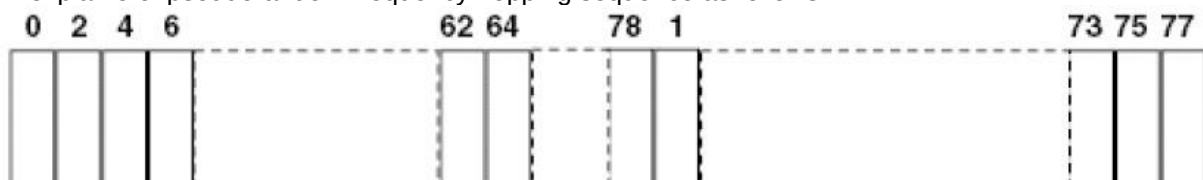
The pseudorandom frequency hopping sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:



Each frequency used equally on the average by each transmitter.

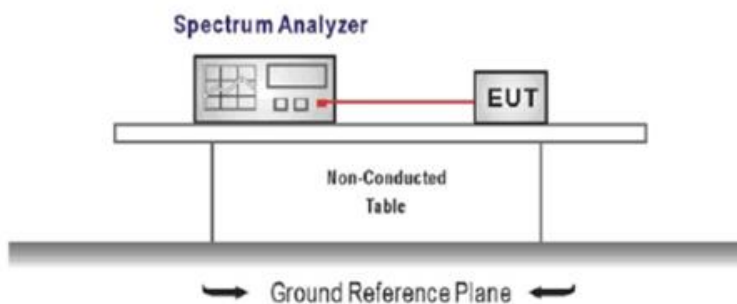
The system receiver has input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shifts frequencies in synchronization with the transmitted signals.

5.11. Conducted Band edge and Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): 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 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 conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Emission level measurement
Set the center frequency and span to encompass frequency range to be measured
 $RBW = 100 \text{ kHz}$, $VBW \geq 3 \times RBW$
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum amplitude level.
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
4. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE

Refer to the clause 4.3

TEST RESULT

☒ **Passed** ☐ **Not Applicable**

TEST DATA

Refer to the appendix report

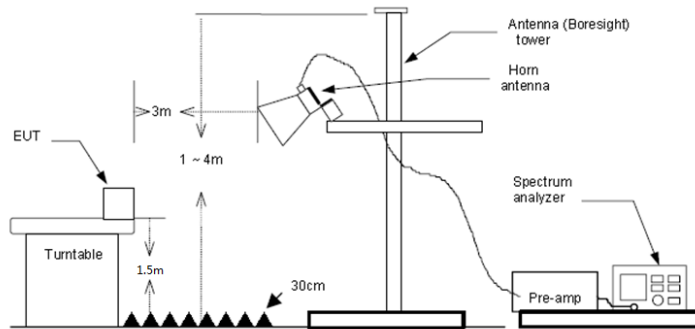
5.12. Radiated Band edge Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
5. Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement: use duty cycle correction factor method (DCCF)
 Averager level = Peak level + DCCF

TEST MODE

Refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

Note:

- 1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

Test channel:		CH-L		Polarity			Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	48.60	27.86	3.95	41.18	39.23	74.00	-34.77	Peak
2	2390.03	47.75	27.54	4.08	41.11	38.26	74.00	-35.74	Peak
Test channel:		CH-L		Polarity			Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	47.29	27.86	3.95	41.18	37.92	74.00	-36.08	Peak
2	2390.03	47.36	27.54	4.08	41.11	37.87	74.00	-36.13	Peak

Test channel:		CH-H		Polarity			Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	51.81	27.33	4.18	41.04	42.28	74.00	-31.72	Peak
2	2500.00	47.85	27.30	4.20	41.02	38.33	74.00	-35.67	Peak
Test channel:		CH-H		Polarity			Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	55.91	27.33	4.18	41.04	46.38	74.00	-27.62	Peak
2	2500.00	50.07	27.30	4.20	41.02	40.55	74.00	-33.45	Peak

5.13. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

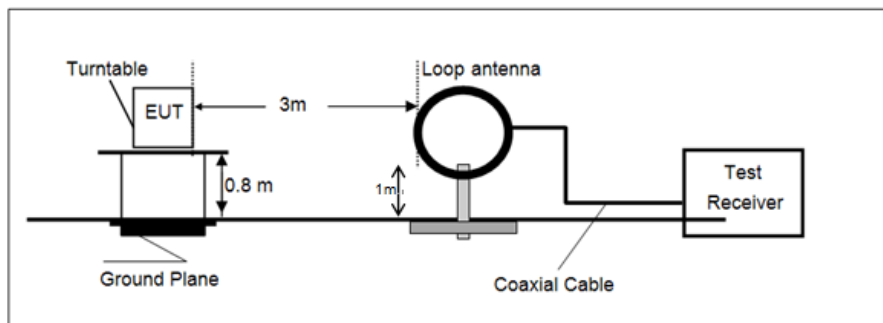
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

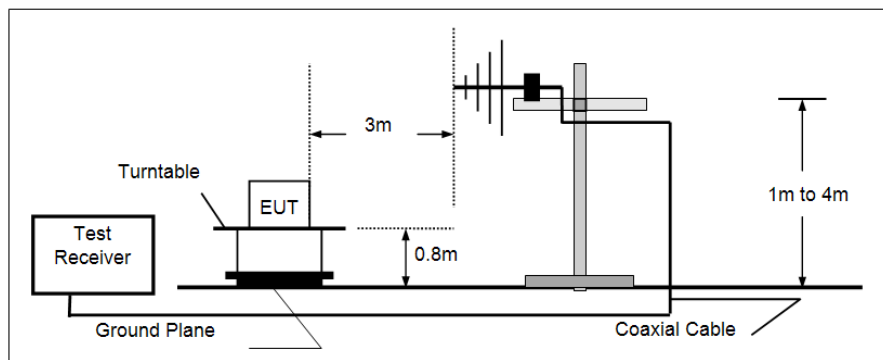
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

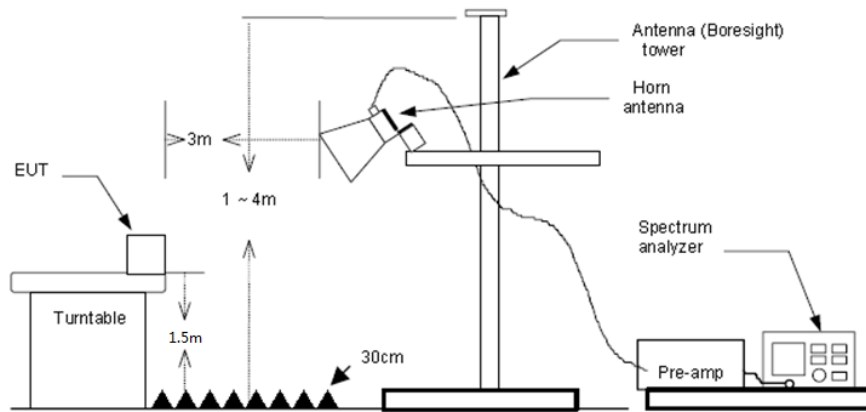
➤ 9 kHz ~ 30 MHz



➤ 30 MHz ~ 1 GHz



➤ Above 1 GHz



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10.
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement: use duty cycle correction factor method (DCCF)

Averager level = Peak level + DCCF

TEST MODE

Refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

For 9 kHz ~ 30 MHz

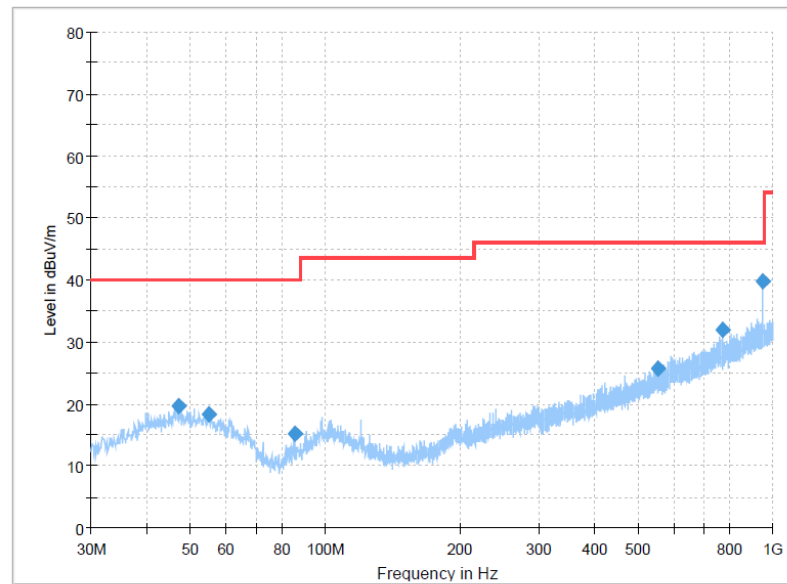
The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

For 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH-M which it was worst case, so only show the worst case's data on this report.

Polarization:

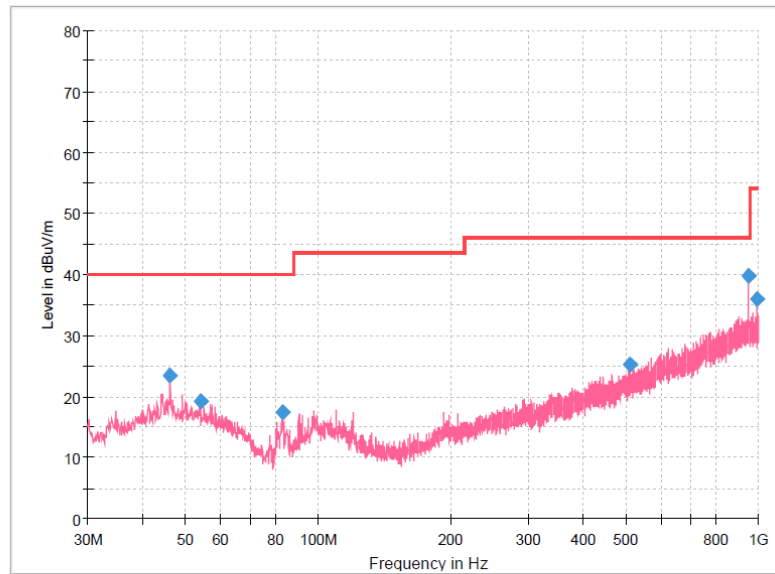
Horizontal

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.2175	19.57	40.00	20.43	300.0	H	323.0	-8.3
54.9775	18.37	40.00	21.63	100.0	H	320.0	-8.8
85.4113	15.26	40.00	24.74	100.0	H	309.0	-14.1
555.4975	25.71	46.00	20.29	100.0	H	123.0	-0.2
774.5963	31.99	46.00	14.01	300.0	H	282.0	4.5
948.3475	39.70	46.00	6.30	100.0	H	223.0	7.5

Polarization:

Vertical

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.1263	23.45	40.00	16.55	100.0	V	6.0	-8.3
54.0075	19.33	40.00	20.67	100.0	V	83.0	-8.8
82.9863	17.39	40.00	22.61	100.0	V	98.0	-14.9
509.4225	25.17	46.00	20.83	100.0	V	56.0	-1.2
948.2263	39.79	46.00	6.21	100.0	V	0.0	7.5
995.3925	35.94	54.00	18.06	100.0	V	355.0	8.3

For 1 GHz ~ 25 GHz

Test channel		CH-L			Polarity			Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5073.59	42.73	31.84	6.06	40.12	40.51	74.00	-33.49	Peak
2	8002.06	41.73	37.00	8.04	39.94	46.83	74.00	-27.17	Peak
3	9660.72	40.40	39.22	8.60	39.83	48.39	74.00	-25.61	Peak
4	11457.21	41.15	40.46	9.17	40.24	50.54	74.00	-23.46	Peak

Test channel		CH-L			Polarity			Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5588.88	42.07	31.62	6.49	39.59	40.59	74.00	-33.41	Peak
2	8022.46	41.92	37.00	8.04	39.93	47.03	74.00	-26.97	Peak
3	9251.58	40.42	39.10	8.50	39.90	48.12	74.00	-25.88	Peak
4	11457.21	40.90	40.46	9.17	40.24	50.29	74.00	-23.71	Peak

Test channel		CH-M			Polarity			Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5151.68	40.64	31.89	6.12	40.02	38.63	74.00	-35.37	Peak
2	8063.40	41.54	37.00	8.05	39.92	46.67	74.00	-27.33	Peak
3	9322.50	40.23	39.20	8.53	39.87	48.09	74.00	-25.91	Peak
4	11545.04	39.98	40.41	9.25	40.26	49.38	74.00	-24.62	Peak

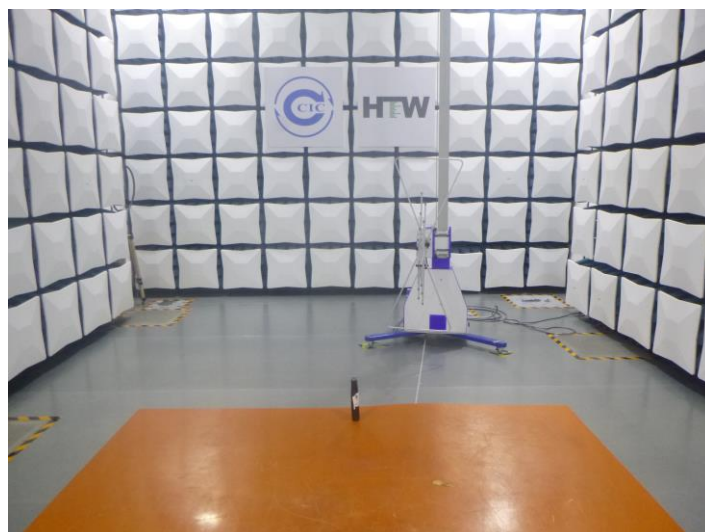
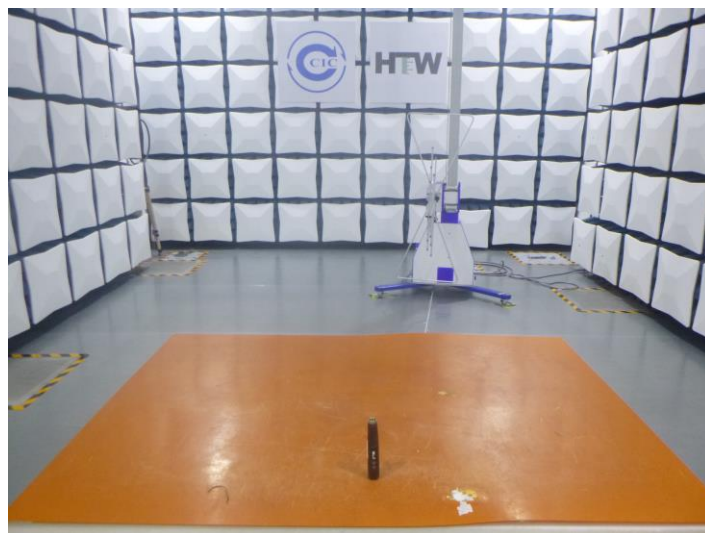
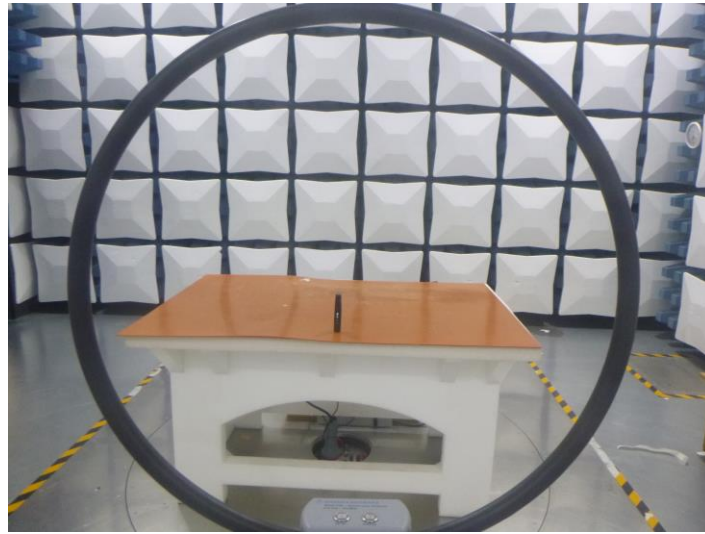
Test channel		CH-M			Polarity			Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3096.33	44.41	28.79	4.58	40.88	36.90	74.00	-37.10	Peak
2	4433.26	43.06	30.47	5.88	40.50	38.91	74.00	-35.09	Peak
3	7981.72	41.08	36.96	8.03	39.94	46.13	74.00	-27.87	Peak
4	11603.96	39.90	40.28	9.32	40.35	49.15	74.00	-24.85	Peak

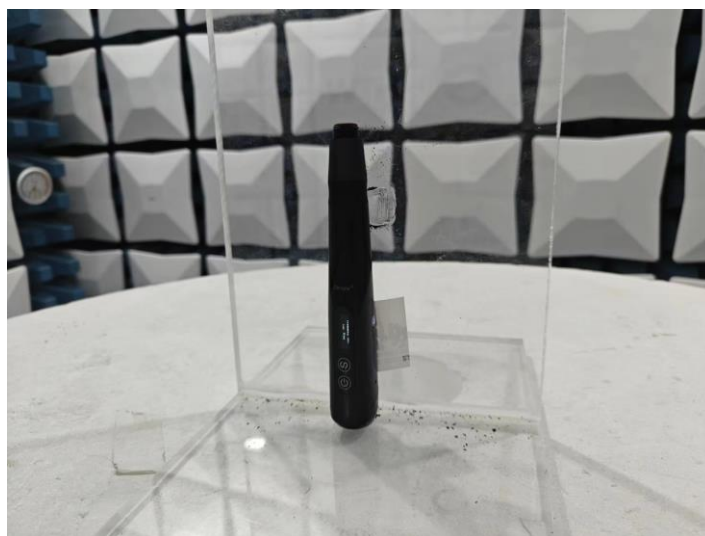
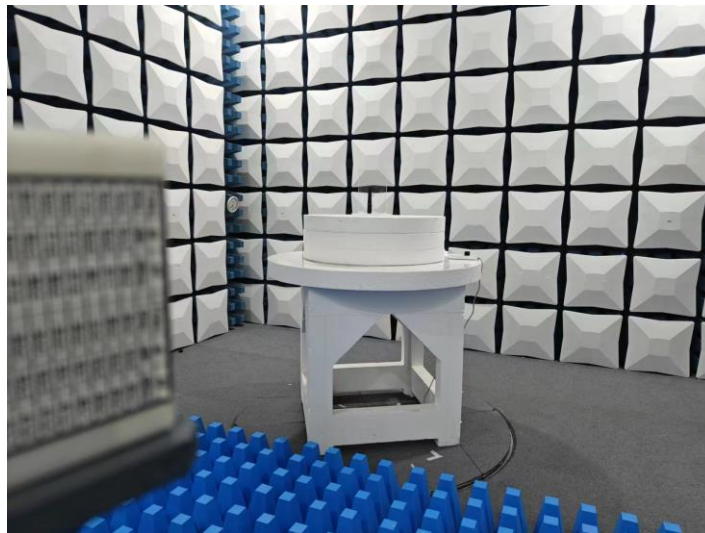
Test channel		CH-H			Polarity			Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4958.68	46.16	31.23	5.97	40.22	43.14	74.00	-30.86	Peak
2	6527.71	41.13	34.01	7.14	39.24	43.04	74.00	-30.96	Peak
3	8042.90	41.87	37.00	8.04	39.93	46.98	74.00	-27.02	Peak
4	11428.08	40.49	40.43	9.14	40.27	49.79	74.00	-24.21	Peak

Test channel		CH-H			Polarity			Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3873.75	44.26	29.65	5.31	40.47	38.75	74.00	-35.25	Peak
2	5420.74	42.21	31.68	6.34	39.77	40.46	74.00	-33.54	Peak
3	8042.90	42.40	37.00	8.04	39.93	47.51	74.00	-26.49	Peak
4	11457.21	40.88	40.46	9.17	40.24	50.27	74.00	-23.73	Peak

6. TEST SETUP PHOTOS

Radiated Emission



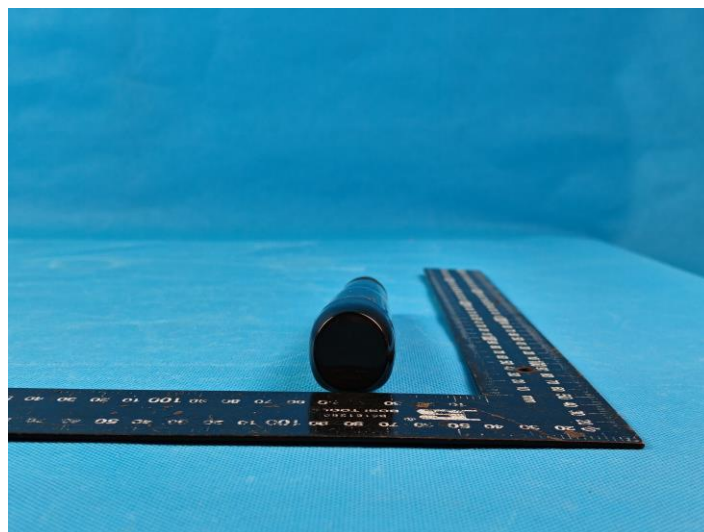
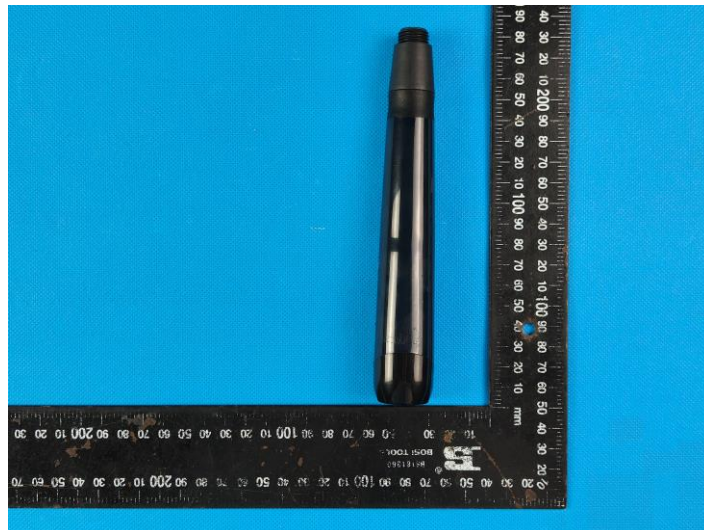
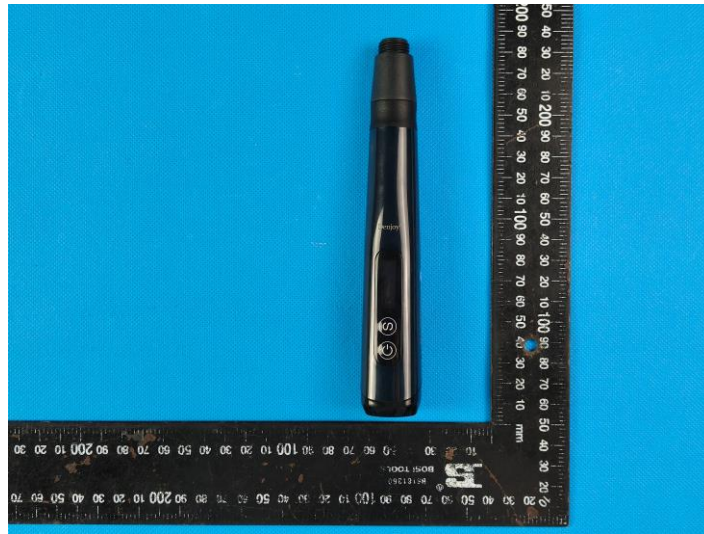


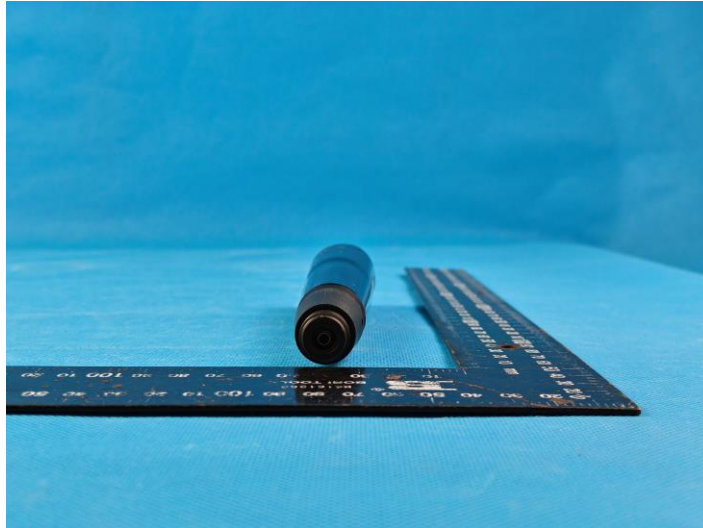
AC Conducted Emission



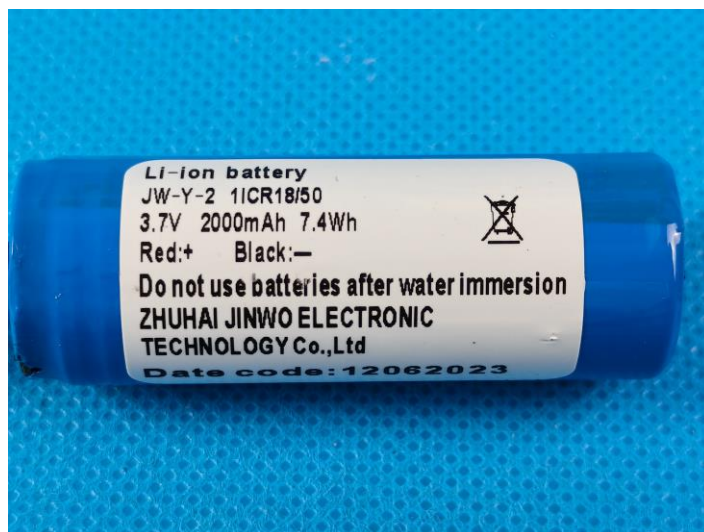
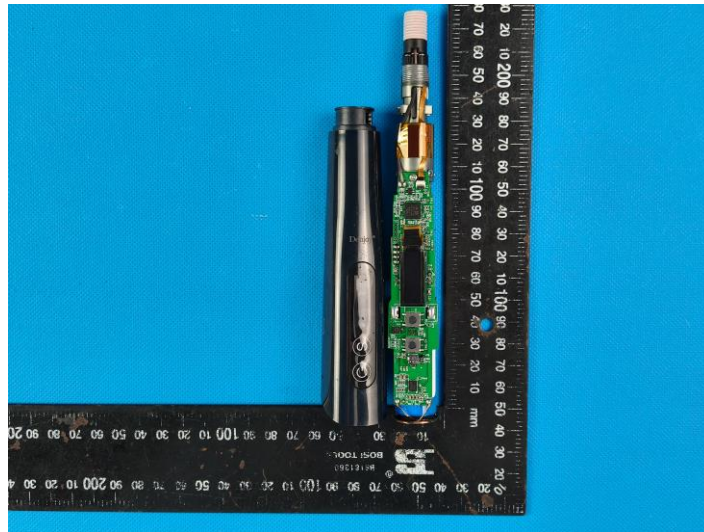
7. EXTERNAL AND INTERNAL PHOTOS

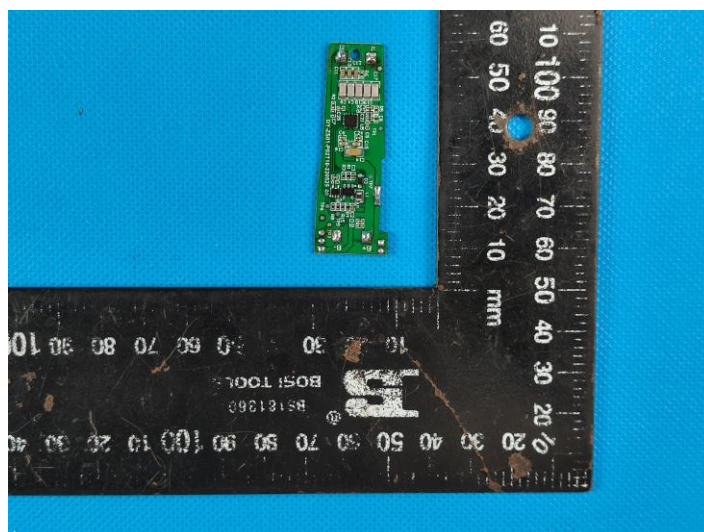
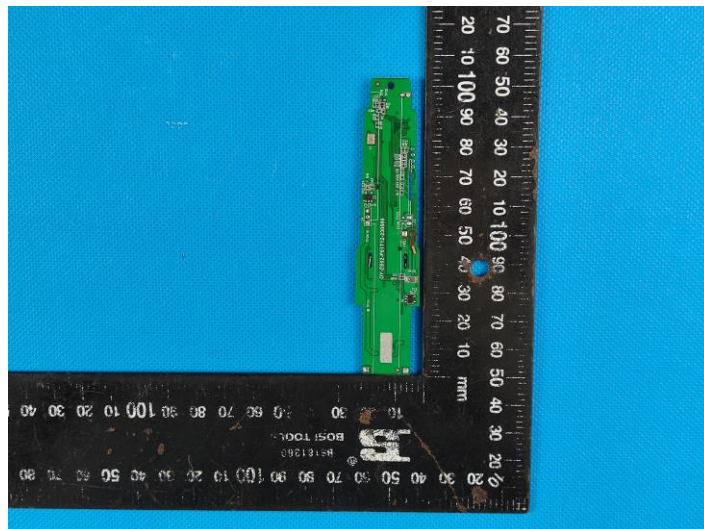
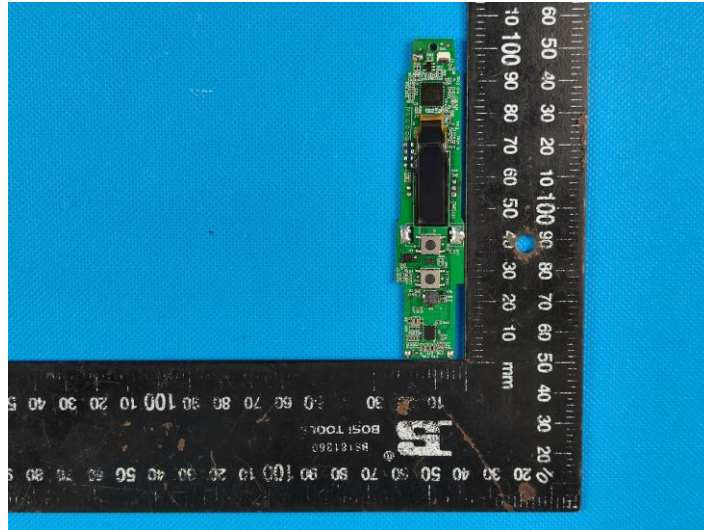
7.1. External Photos

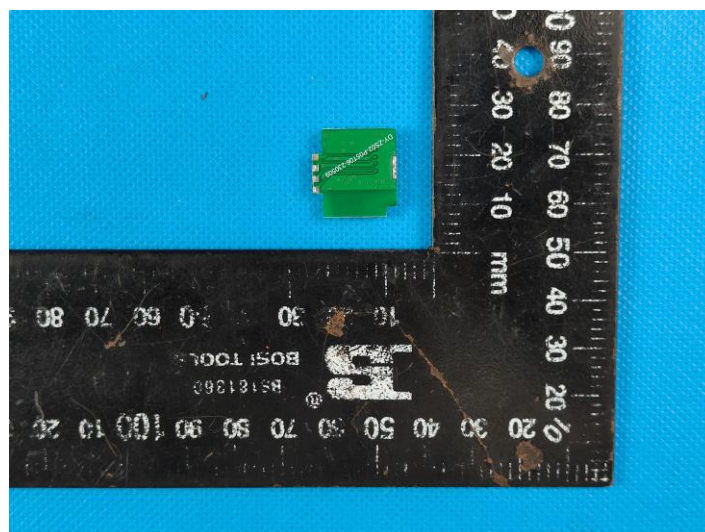
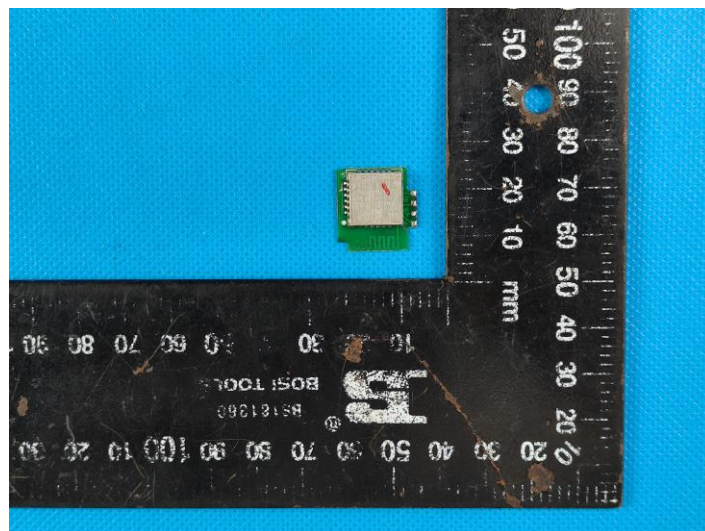
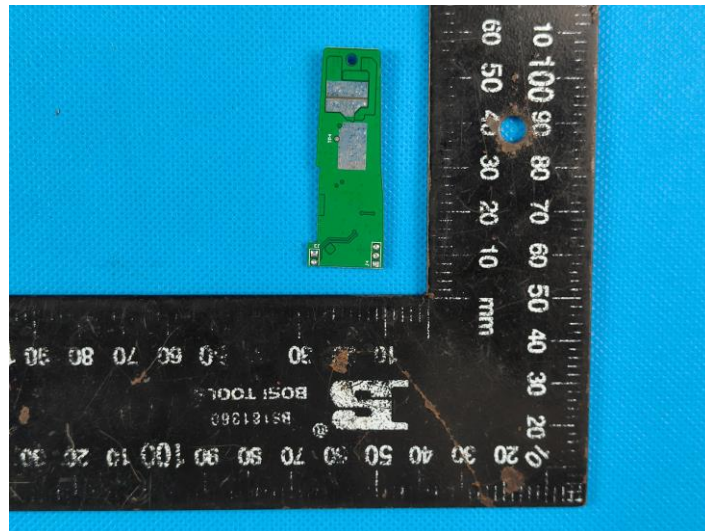


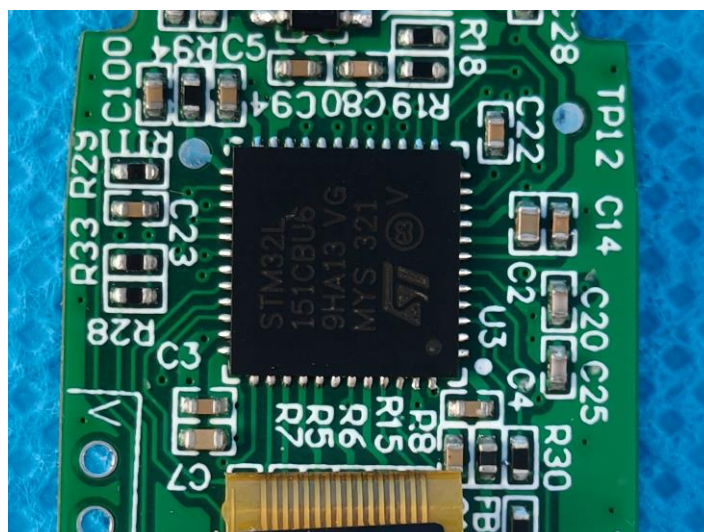
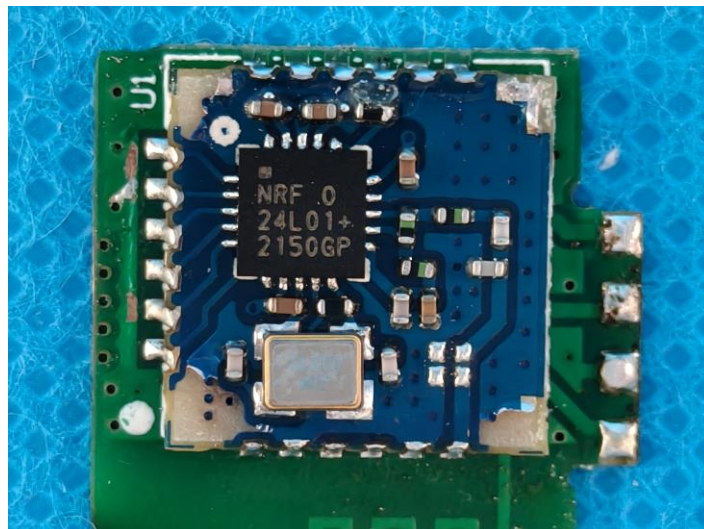
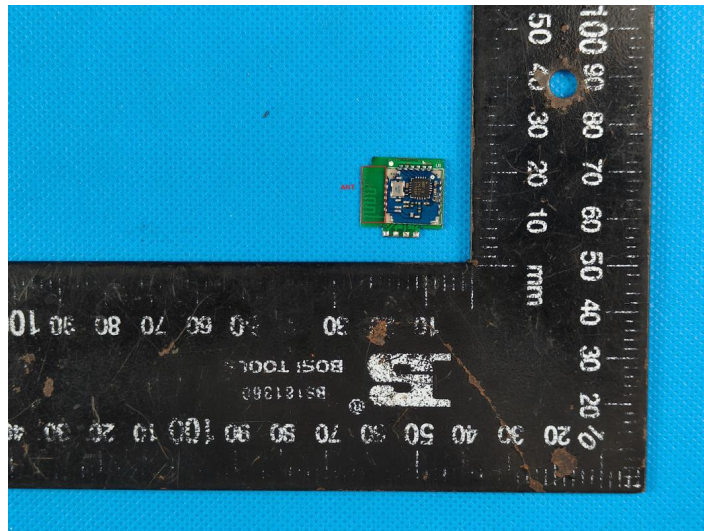


7.2. Internal Photos









8. APPENDIX REPORT

APPENDIX REPORT

Project No.	SHT2410031602W	Radio Specification	2.4G
Test sample No.	YPHT24100316001	Model No.	Meet Fill
Start test date	2024-12-13	Finish date	2024-12-18
Temperature	22.9℃	Humidity	54%
Test Engineer	Jiaxing Si	Auditor	Xiaodong Zheo

Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(coducted)	PASS

Appendix A: Peak Output Power

Modulation type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	CH-L	-2.30	-2.33	≤ 30.00	Pass
	CH-M	-2.26	-2.29		
	CH-H	-1.67	-1.71		

Modulation Type: GFSK	
CH-L	Spectrum Ref Level 20.00 dBm Att 30 dB Count 300/300 Offset 0.50 dB SWT 1 ms RBW 1 MHz VBW 3 MHz Mode Auto Sweep 1Pk View M1[1] -2.30 dBm 2.40284080 GHz CF 2.403 GHz 691 pts Span 5.0 MHz Date: 13 DEC 2024 09:15:05
CH-M	Spectrum Ref Level 20.00 dBm Att 30 dB Count 300/300 Offset 0.50 dB SWT 1 ms RBW 1 MHz VBW 3 MHz Mode Auto Sweep 1Pk View M1[1] -2.26 dBm 2.43886980 GHz CF 2.439 GHz 691 pts Span 5.0 MHz Date: 13 DEC 2024 09:19:33
CH-H	Spectrum Ref Level 20.00 dBm Att 30 dB Count 300/300 Offset 0.50 dB SWT 1 ms RBW 1 MHz VBW 3 MHz Mode Auto Sweep 1Pk View M1[1] -1.67 dBm 2.47913020 GHz CF 2.479 GHz 691 pts Span 5.0 MHz Date: 13 DEC 2024 09:24:12

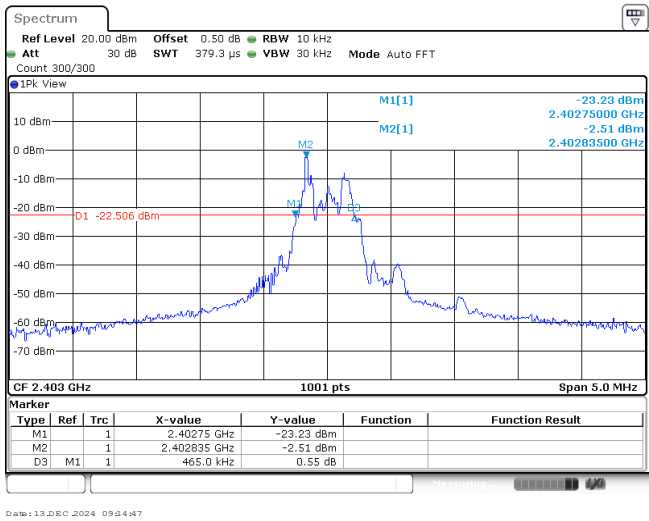
Appendix B : 20 dB Bandwidth

Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	CH-L	465.00	-	Pass
	CH-M	510.00		
	CH-H	480.00		

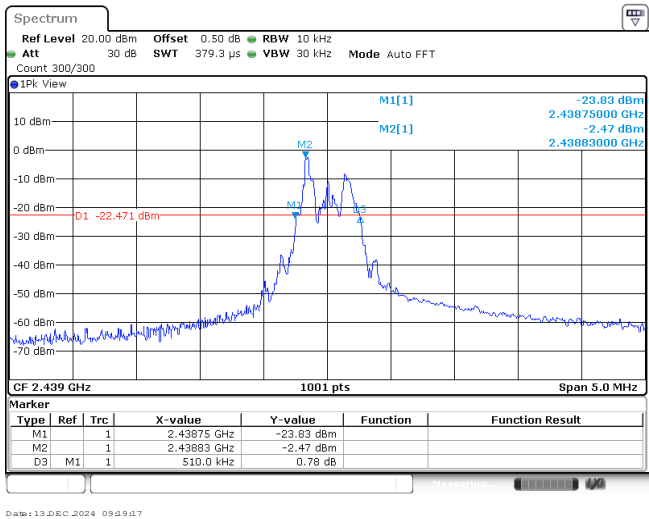
Modulation Type:

GFSK

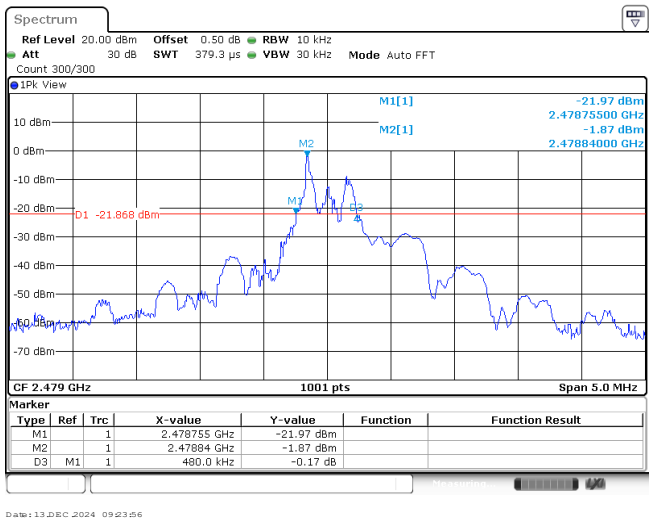
CH-L



CH-M



CH-H



Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	CH-L	0.50	-	Pass
	CH-M	0.48		
	CH-H	1.45		

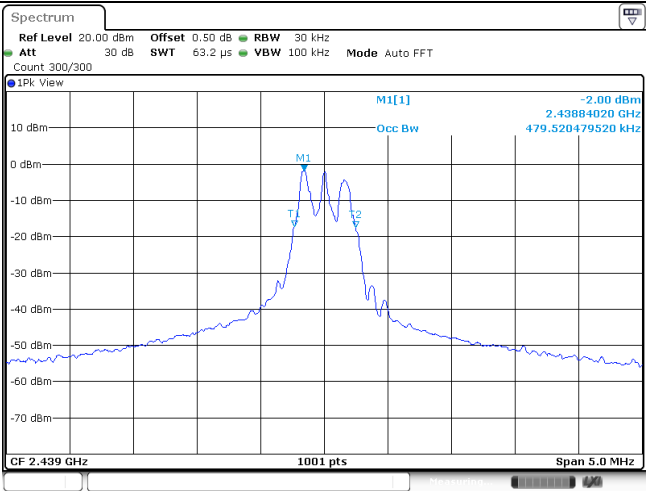
Modulation Type:

GFSK

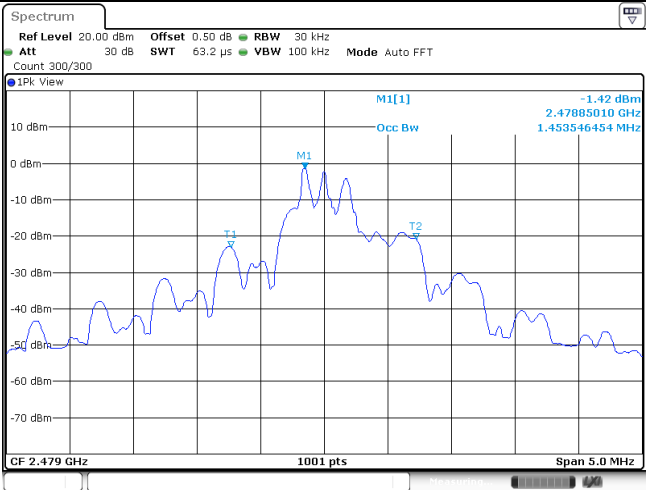
CH-L



CH-M



CH-H

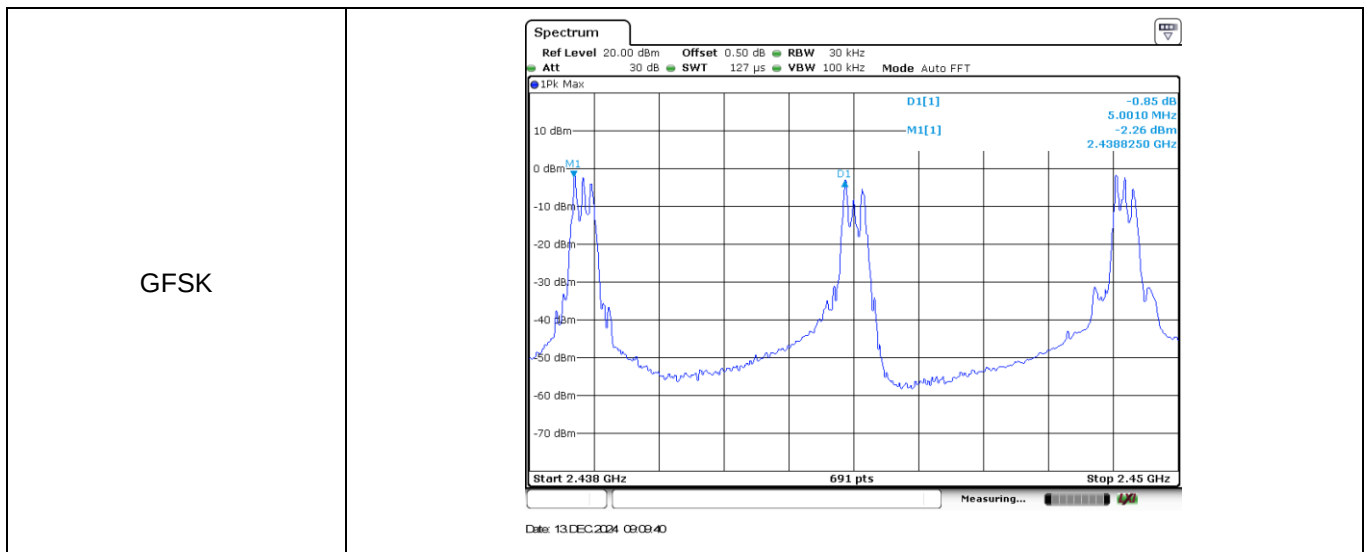


Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	CH-M	5.00	≥510	Pass

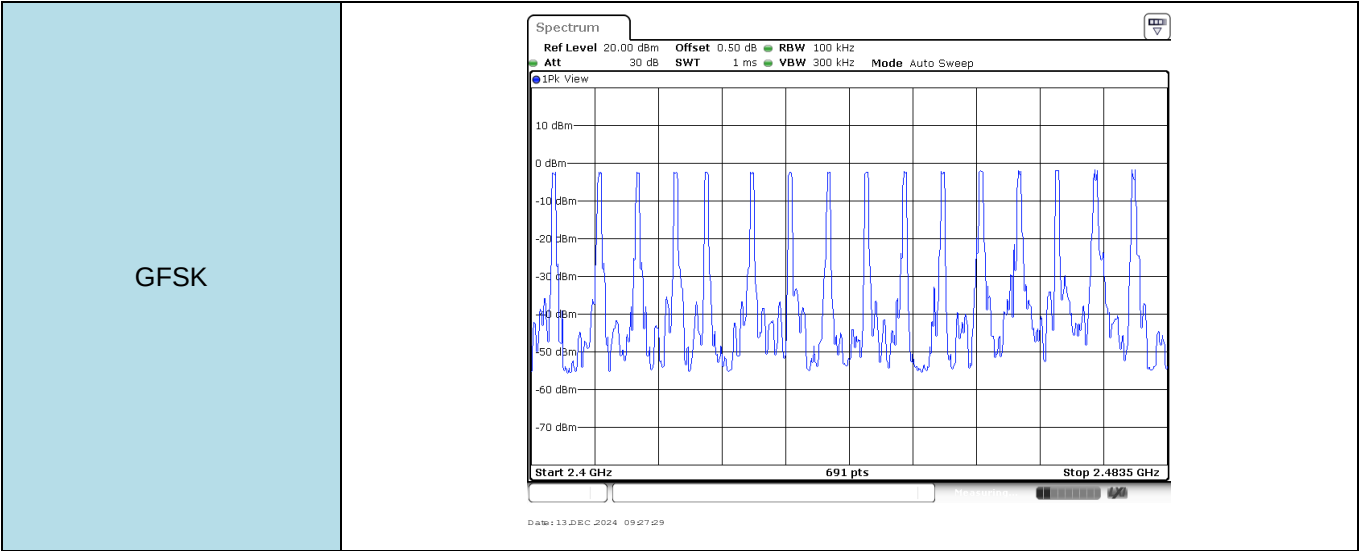
Note:

*: GFSK limit = The maximum 20 dB Bandwidth for GFSK modulation on the appendix B.



Appendix E: Hopping Channel Number

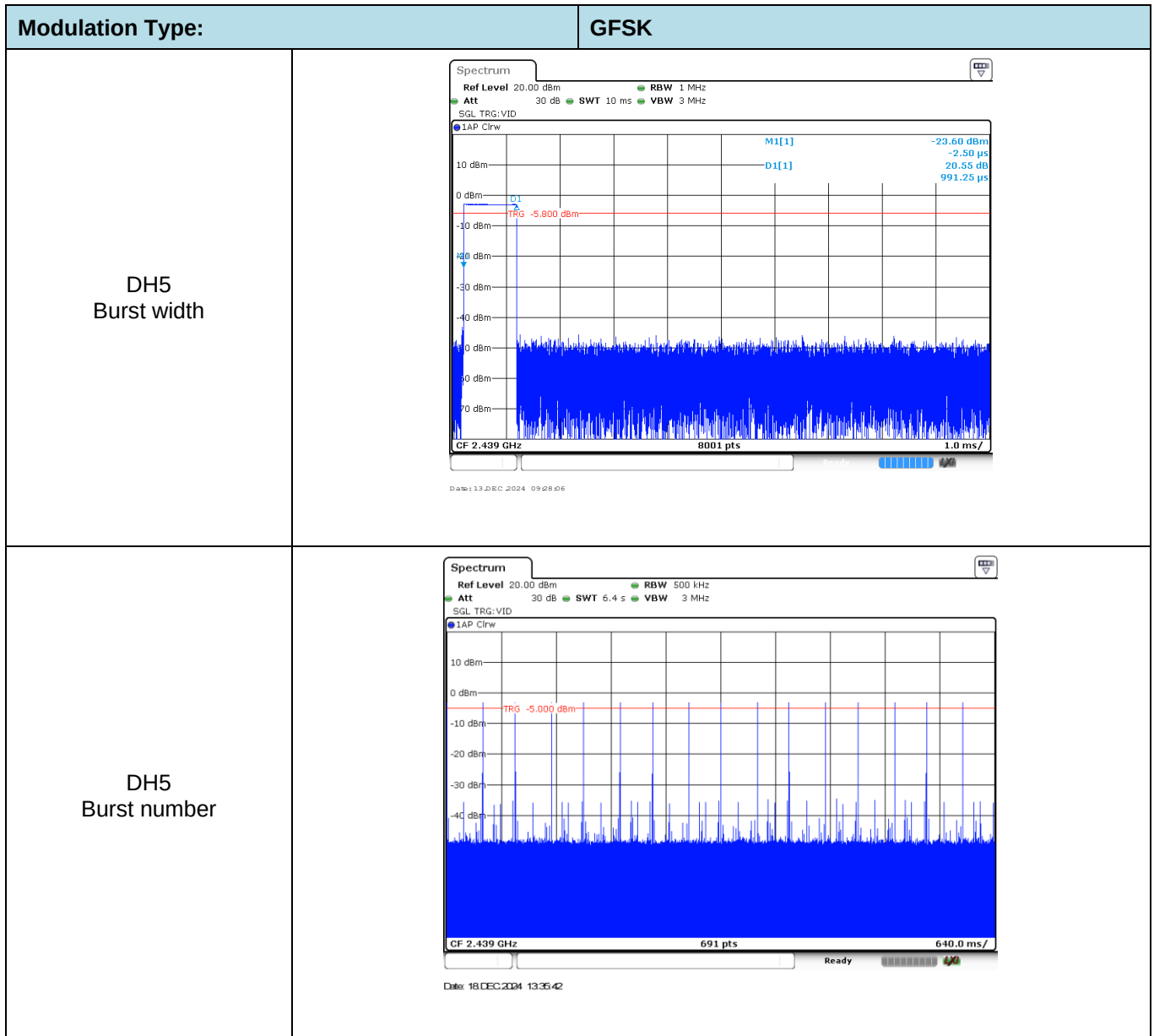
Modulation type	Channel number	Limit	Result
GFSK	16	≥15.00	Pass



Appendix F: Dwell Time

Modulation type	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	0.99	15	0.015	≤ 0.40	Pass

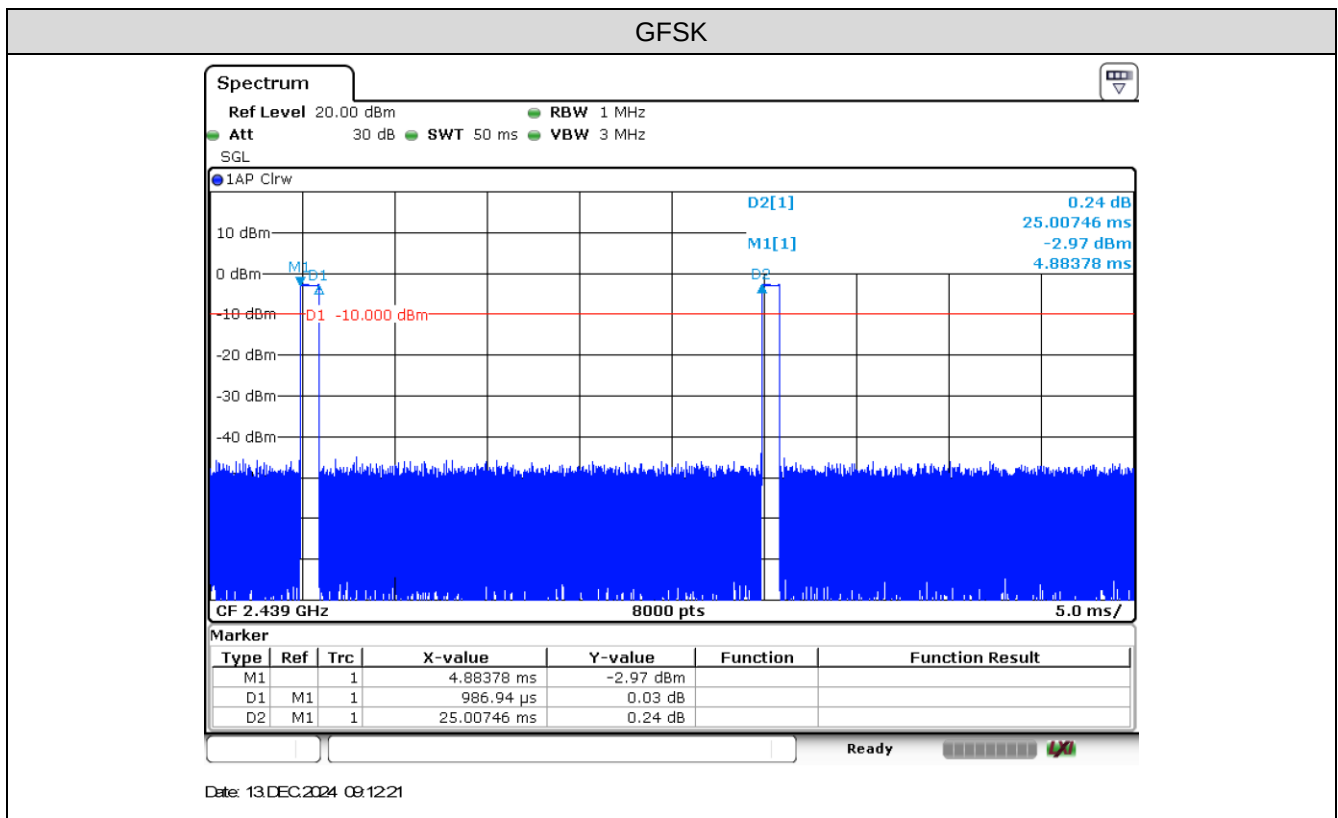
Note:period=0.4s*16=6.4s



Appendix G: Duty Cycle Correction Factor (DCCF)**DCCF Calculate Formula**

$$\text{DCCF} = 20 * \text{Log}(\text{duty cycle}) = 20 * \text{Log}(T_{\text{on time}} / T_{\text{period}})$$

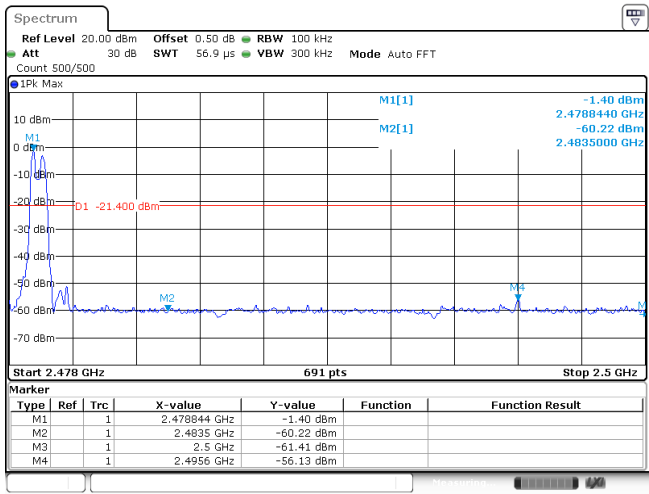
Modulation type	Test Frequency (MHz)	T _{on time} for single burst [ms]	T _{period} [ms]	DCCF [dB]
GFSK	2439	0.99	25.01	-28.05



Appendix H: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge	Modulation type:	GFSK																																									
CH-L No hopping mode		Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M4[1] M1[1] D1 -22.460 dBm M2 M3 M5 -54.58 dBm 2.310000 GHz -2.46 dBm 2.403110 GHz Start 2.31 GHz 691 pts Stop 2.408 GHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.40311 GHz</td><td>-2.46 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-42.89 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-53.65 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-54.58 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.38254 GHz</td><td>-53.82 dBm</td><td></td><td></td></tr></table> Measuring... Date: 13 DEC 2024 09:35:28	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40311 GHz	-2.46 dBm			M2	1		2.4 GHz	-42.89 dBm			M3	1		2.39 GHz	-53.65 dBm			M4	1		2.31 GHz	-54.58 dBm			M5	1		2.38254 GHz	-53.82 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.40311 GHz	-2.46 dBm																																								
M2	1		2.4 GHz	-42.89 dBm																																								
M3	1		2.39 GHz	-53.65 dBm																																								
M4	1		2.31 GHz	-54.58 dBm																																								
M5	1		2.38254 GHz	-53.82 dBm																																								
CH-L Hopping mode		Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] D1 -22.750 dBm M3 M4 M5 -2.75 dBm 2.402870 GHz -56.47 dBm 2.400000 GHz Start 2.31 GHz 691 pts Stop 2.405 GHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.40287 GHz</td><td>-2.75 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-56.47 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-56.60 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-55.38 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.398942 GHz</td><td>-47.30 dBm</td><td></td><td></td></tr></table> Measuring... Date: 13 DEC 2024 09:27:42	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40287 GHz	-2.75 dBm			M2	1		2.4 GHz	-56.47 dBm			M3	1		2.39 GHz	-56.60 dBm			M4	1		2.31 GHz	-55.38 dBm			M5	1		2.398942 GHz	-47.30 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.40287 GHz	-2.75 dBm																																								
M2	1		2.4 GHz	-56.47 dBm																																								
M3	1		2.39 GHz	-56.60 dBm																																								
M4	1		2.31 GHz	-55.38 dBm																																								
M5	1		2.398942 GHz	-47.30 dBm																																								
CH-H No hopping mode		Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M4[1] M1[1] D1 -21.390 dBm M2 M3 M4 -48.92 dBm 2.4856890 GHz -1.38 dBm 2.4788440 GHz Start 2.478 GHz 691 pts Stop 2.5 GHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.478844 GHz</td><td>-1.38 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-47.25 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-59.74 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.485689 GHz</td><td>-48.92 dBm</td><td></td><td></td></tr></table> Measuring... Date: 13 DEC 2024 09:31:36	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.478844 GHz	-1.38 dBm			M2	1		2.4835 GHz	-47.25 dBm			M3	1		2.5 GHz	-59.74 dBm			M4	1		2.485689 GHz	-48.92 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.478844 GHz	-1.38 dBm																																								
M2	1		2.4835 GHz	-47.25 dBm																																								
M3	1		2.5 GHz	-59.74 dBm																																								
M4	1		2.485689 GHz	-48.92 dBm																																								

CH-H
Hopping mode



Test Item:	Spurious Emission	Modulation type:	GFSK
CH-L Reference level	Spectrum Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -3.60 dBm 2.4031740 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.403 GHz 691 pts Span 30.0 MHz		

CH-M Reference level	
CH-M 30MHz~1000MHz	
CH-M 1GHz~26GHz	

CH-H Reference level	
CH-H 30MHz~1000MHz	
CH-H 1GHz~26GHz	

-----End of Report-----