

TEST REPORT

For Bluetooth-LE



Report No. : CHTW25030001 Report Verification: 

Project No..... : SHT2409018615W

FCC ID..... : 2AK5KU16H25008

Applicant's name..... : Shenzhen Urion Technology Co.,Ltd.

Address..... : Floor 4-6th of Building D, Jiale Science&Technology Industrial Zone, No.3, ChuangWei Road, Heshuikou Community, MaTian Street, GuangMing New District, 518106 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Product Name : Wrist Electronic Blood Pressure Monitor

Trade Mark : -

Model No. : U16H

Listed Model(s) : U16L, U16P, U16W, U19M, U19R, U19S, U19T

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

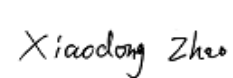
Date of receipt of test sample..... : Dec. 25, 2024

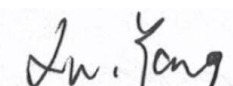
Date of testing..... : Jan. 10, 2025- Feb. 27, 2025

Date of issue..... : Mar. 03, 2025

Result..... : PASS

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(Position+Printed name+Signature): RF Manager 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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The test report merely correspond to the test sample.

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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	2025-03-03	Original

2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result	Test Engineer
5.1	Antenna Requirement	15.203/15.247(c)	PASS	Xiaodong Zhao
5.2	AC Conducted Emission	15.207	PASS	Yating Chen
5.3	Peak Output Power	15.247(b)(3)	PASS	Xiangyu Wei
5.4	Power Spectral Density	15.247(e)	PASS	Xiangyu Wei
5.5	6dB Bandwidth	15.247(a)(2)	PASS	Xiangyu Wei
5.6	99% Occupied Bandwidth	-	PASS ^{*1}	Xiangyu Wei
5.7	Duty cycle	-	PASS ^{*1}	Xiangyu Wei
5.8	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS	Xiangyu Wei
5.9	Radiated Band Edge Emission	15.205/15.209	PASS	Yifan Wang
5.10	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS	Yifan Wang Junxu Lin

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:	Shenzhen Urion Technology Co., Ltd.
Address:	Floor 4-6th of Building D, Jiale Science&Technology Industrial Zone, No.3, ChuangWei Road, Heshuikou Community, MaTian Street, GuangMing New District, 518106 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Manufacturer:	Shenzhen Urion Technology Co., Ltd.
Address:	Floor 4-6th of Building D, Jiale Science&Technology Industrial Zone, No.3, ChuangWei Road, Heshuikou Community, MaTian Street, GuangMing New District, 518106 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Factory:	Shenzhen Urion Technology Co., Ltd.
Address:	Floor 4-6th of Building D, Jiale Science&Technology Industrial Zone, No.3, ChuangWei Road, Heshuikou Community, MaTian Street, GuangMing New District, 518106 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

3.2. Product Description

Main unit information:	
Product Name:	Wrist Electronic Blood Pressure Monitor
Trade Mark:	-
Model No.:	U16H
Listed Model(s):	U16L, U16P, U16W, U19M, U19R, U19S, U19T
Power supply:	DC 3.85V from Battery
Hardware version:	V1.0
Software version:	V1

3.3. Radio Specification Description

Bluetooth version:	V5.0
Support function:	BLE 1Mbps, BLE 2Mbps
Modulation:	GFSK
Operation frequency:	2402MHz~2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	Wire welding antenna
Antenna gain:	-13.11dBi

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)
00	2402
01	2404
. . .	. . .
19	2440
. . .	. . .
38	2478
39	2480

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	Please refer to the description in the appendix report
RF Radiated test items	YPHT24090186002
EMI test items	YPHT24090186004

Note:

RF Conducted test items: Peak Output Power, Power Spectral Density, 6dB Bandwidth, 99% Occupied Bandwidth, Duty cycle, 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	Medical Adapter	-	LXCP6-050100D
2			

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 Wire welding antenna, please refer to the below antenna photo.



5.2. AC Conducted Emission

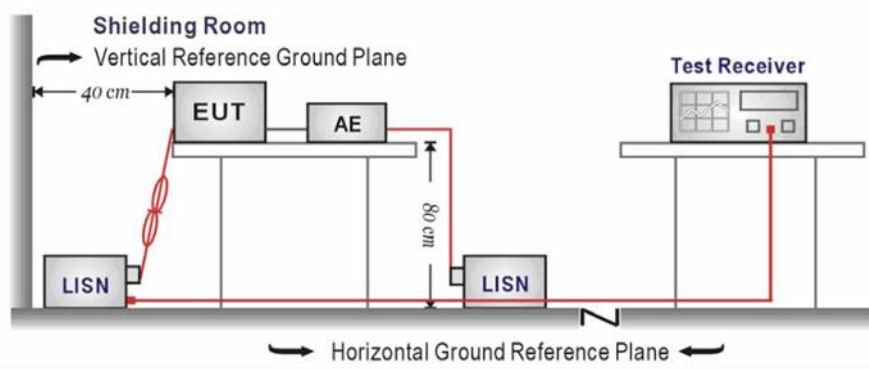
LIMIT

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. (Please 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

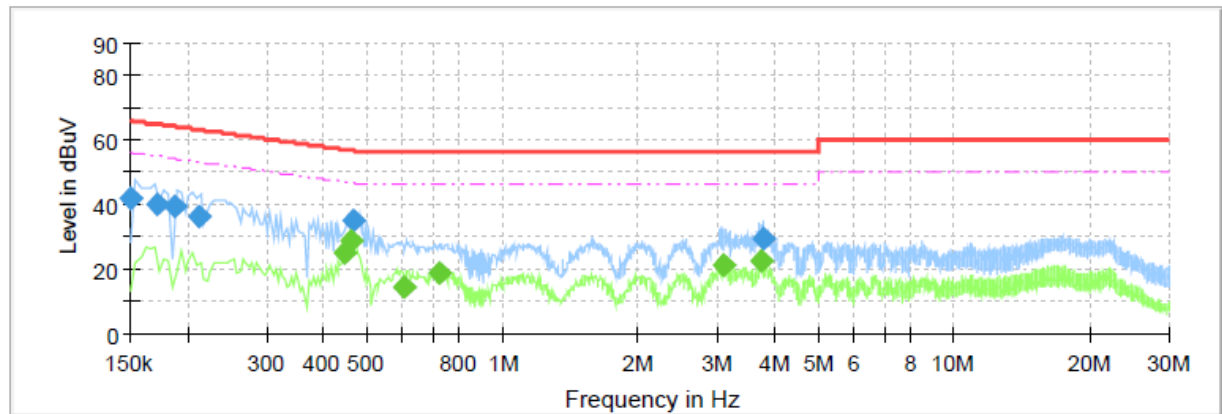
Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

Test Line:

L



Final Result

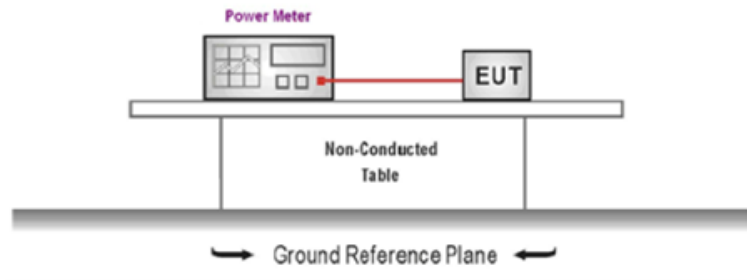
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.150000	41.87	---	66.00	24.13	L1	10.1
0.171500	40.16	---	64.89	24.72	L1	10.2
0.187500	39.09	---	64.15	25.05	L1	10.2
0.211500	36.25	---	63.15	26.90	L1	10.2
0.448500	---	24.69	46.90	22.21	L1	10.3
0.463500	---	28.65	46.63	17.98	L1	10.4
0.467500	35.30	---	56.56	21.26	L1	10.4
0.604500	---	14.45	46.00	31.55	L1	10.4
0.727500	---	19.02	46.00	26.98	L1	10.4
3.087500	---	21.43	46.00	24.57	L1	10.6
3.743500	---	22.42	46.00	23.58	L1	10.6
3.791500	29.16	---	56.00	26.84	L1	10.6

5.3. Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
4. Record the measurement data.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

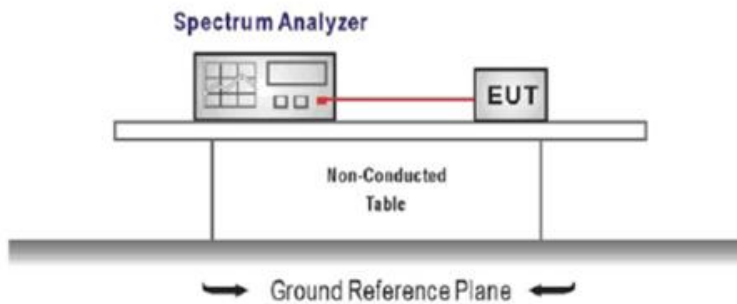
5.4. Power Spectral Density

LIMIT

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

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

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input,
2. Configure the spectrum analyzer as shown below:
Center frequency=DTS channel center frequency
Span =1.5 times the DTS bandwidth
 $RBW = 3 \text{ kHz} \leq RBW \leq 100 \text{ kHz}$, $VBW \geq 3 \times RBW$
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 wave form on the spectrum analyzer.
4. Use the peak marker function to determine the maximum amplitude level within the RBW.
5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

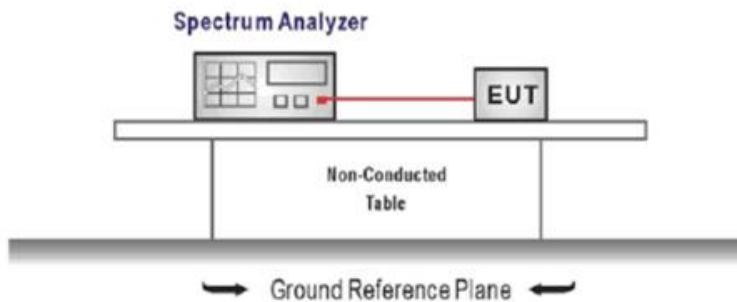
5.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

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

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 = DTS channel center frequency
Span = 2 x DTS bandwidth
RBW = 100 kHz, VBW $\geq 3 \times$ 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.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

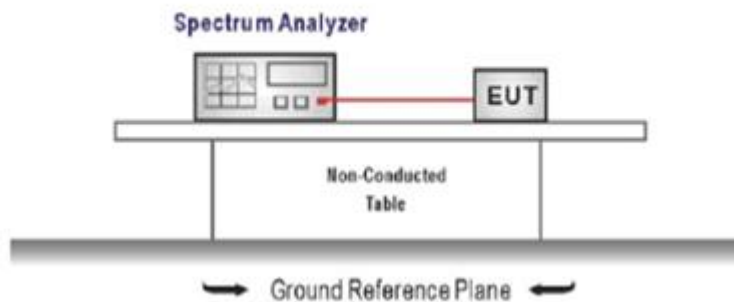
Refer to the appendix report

5.6. 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 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

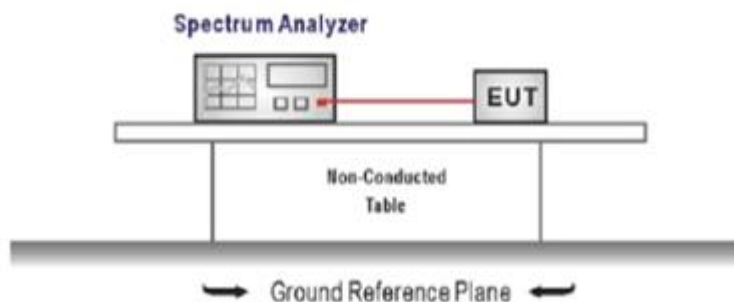
Refer to the appendix report

5.7. Duty Cycle

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, Frequency=centered channel, RBW= 1 MHz, VBW $\geq$ RBW
Sweep=as necessary to capture the entire dwell time,
Detector function = peak, Trigger mode
4. Measure and record the duty cycle data

TEST MODE

Refer to the clause 4.2

TEST DATA

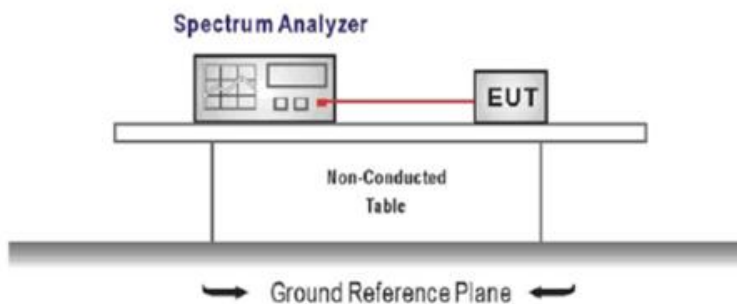
Refer to the appendix report

5.8. 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 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 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

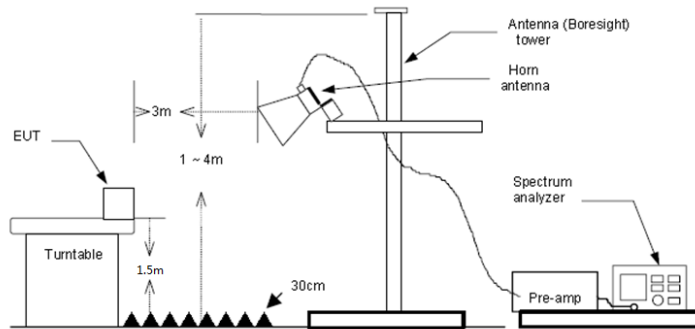
5.9. Radiated Band edge Emission

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:

 - VBW=10Hz, When duty cycle is no less than 98 percent
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.6 duty cycle.

TEST MODE

Refer to the clause 4.2

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).

BLE 1Mbps

Test channel		CH00			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	43.48	27.86	3.95	41.18	34.11	74.00	-39.89	Peak
2	2390.03	43.24	27.54	4.08	41.11	33.75	74.00	-40.25	Peak
Test channel		CH00			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	44.21	27.86	3.95	41.18	34.84	74.00	-39.16	Peak
2	2390.03	44.73	27.54	4.08	41.11	35.24	74.00	-38.76	Peak

Test channel		CH39			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	46.22	27.33	4.18	41.04	36.69	74.00	-37.31	Peak
2	2500.00	43.62	27.30	4.20	41.02	34.10	74.00	-39.90	Peak
Test channel		CH39			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	47.35	27.33	4.18	41.04	37.82	74.00	-36.18	Peak
2	2500.00	44.36	27.30	4.20	41.02	34.84	74.00	-39.16	Peak

BLE 2Mbps

Test channel		CH00			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	43.77	27.86	3.95	41.18	34.40	74.00	-39.60	Peak
2	2390.03	43.34	27.54	4.08	41.11	33.85	74.00	-40.15	Peak
Test channel		CH00			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	43.80	27.86	3.95	41.18	34.43	74.00	-39.57	Peak
2	2390.03	43.02	27.54	4.08	41.11	33.53	74.00	-40.47	Peak

Test channel		CH39			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	42.85	27.33	4.18	41.04	33.32	74.00	-40.68	Peak
2	2500.00	42.92	27.30	4.20	41.02	33.40	74.00	-40.60	Peak
Test channel		CH39			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	47.86	27.33	4.18	41.04	38.33	74.00	-35.67	Peak
2	2500.00	44.90	27.30	4.20	41.02	35.38	74.00	-38.62	Peak

5.10. 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

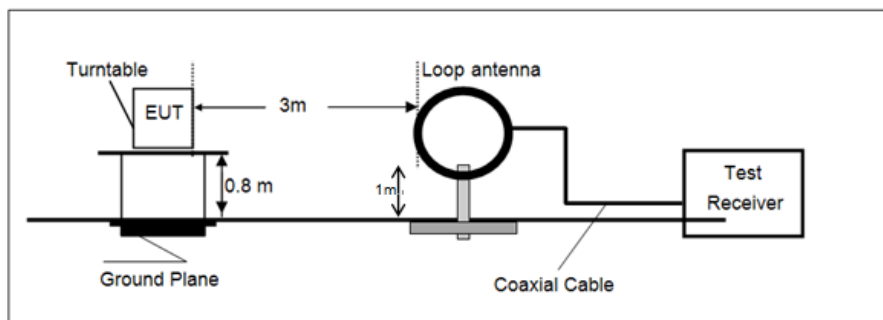
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + $40 \cdot \log(300/3)$ = Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m + $40 \cdot \log(30/3)$ = Limit dBuV/m @30m + 40.

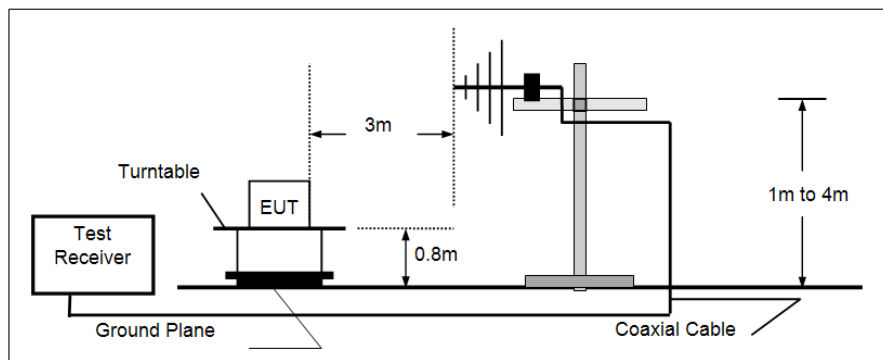
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

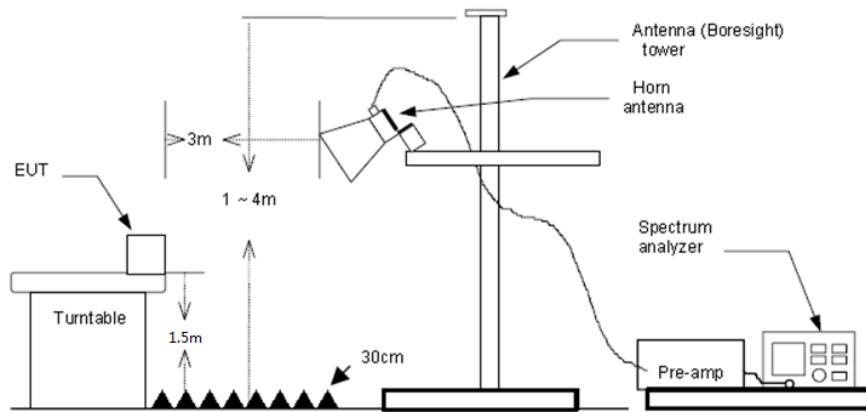
- 9 kHz ~ 30 MHz



- 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:

 - VBW=10Hz, When duty cycle is no less than 98 percent
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.6 duty cycle.

TEST MODE

Refer to the clause 4.2

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

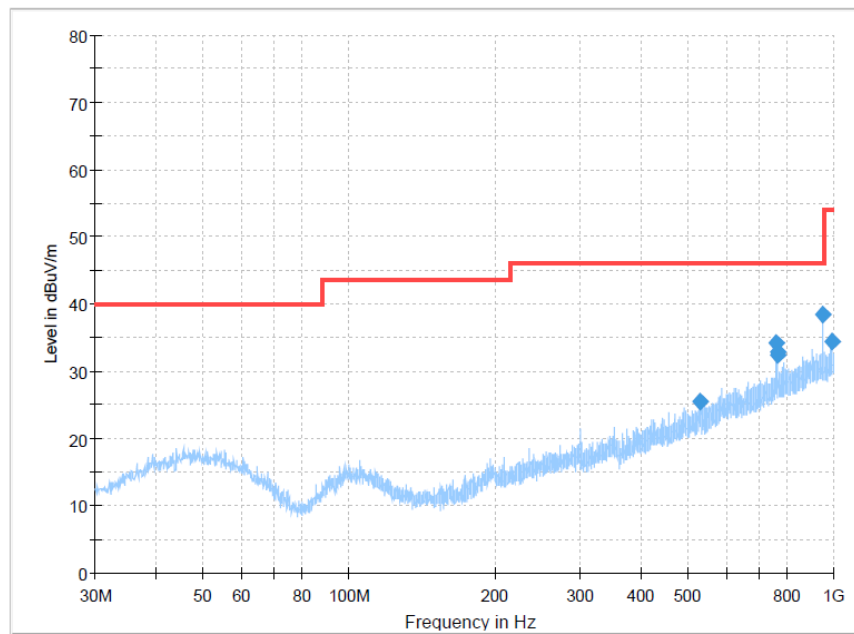
The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

For 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found BLE 1Mbps CH39 which it was worst case, so only show the worst case's data on this report.

Polarization:

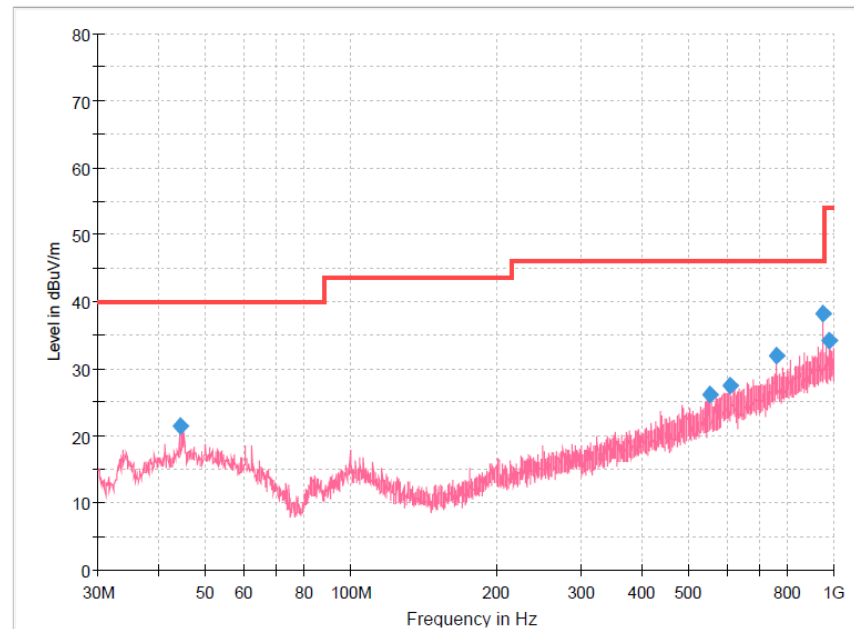
Horizontal

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
530.6413	25.44	46.00	20.56	300.0	H	148.0	-0.9
760.2888	34.11	46.00	11.89	100.0	H	315.0	4.5
764.2900	32.93	46.00	13.07	100.0	H	172.0	4.4
765.3813	32.47	46.00	13.53	100.0	H	172.0	4.4
948.3475	38.47	46.00	7.53	300.0	H	80.0	7.5
991.2700	34.42	54.00	19.58	100.0	H	341.0	8.3

Polarization:

Vertical

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.3075	21.56	40.00	18.44	100.0	V	92.0	-8.5
551.9813	26.25	46.00	19.75	100.0	V	66.0	-0.3
611.6363	27.54	46.00	18.46	100.0	V	286.0	1.5
759.8038	32.06	46.00	13.94	100.0	V	270.0	4.5
948.4688	38.14	46.00	7.86	100.0	V	0.0	7.5
979.6300	34.12	54.00	19.88	100.0	V	24.0	8.0

For 1 GHz ~ 25 GHz**BLE 1Mbps**

Test channel		CH00		Polarity			Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4559.15	46.61	30.74	5.87	40.39	42.83	74.00	-31.17	Peak
2	4809.50	52.65	31.28	5.89	40.28	49.54	74.00	-24.46	Peak
3	8042.90	41.83	37.00	8.04	39.93	46.94	74.00	-27.06	Peak
4	11370.05	40.42	40.31	9.10	40.33	49.50	74.00	-24.50	Peak
Test channel		CH00		Polarity			Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4809.50	51.79	31.28	5.89	40.28	48.68	74.00	-25.32	Peak
2	7451.57	42.14	36.20	7.75	39.92	46.17	74.00	-27.83	Peak
3	9088.19	41.01	38.25	8.44	39.96	47.74	74.00	-26.26	Peak
4	11457.21	40.94	40.46	9.17	40.24	50.33	74.00	-23.67	Peak

Test channel		CH19		Polarity			Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4883.52	53.65	31.20	5.93	40.25	50.53	74.00	-23.47	Peak
2	7301.36	42.16	36.10	7.61	39.80	46.07	74.00	-27.93	Peak
3	9204.60	41.26	38.83	8.48	39.92	48.65	74.00	-25.35	Peak
4	11603.96	40.96	40.28	9.32	40.35	50.21	74.00	-23.79	Peak
Test channel		CH19		Polarity			Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4883.52	52.60	31.20	5.93	40.25	49.48	74.00	-24.52	Peak
2	7489.60	42.21	36.20	7.78	39.93	46.26	74.00	-27.74	Peak
3	9985.76	40.43	39.23	8.60	39.90	48.36	74.00	-25.64	Peak
4	11457.21	40.97	40.46	9.17	40.24	50.36	74.00	-23.64	Peak

Test channel		CH39		Polarity			Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4559.15	45.26	30.74	5.87	40.39	41.48	74.00	-32.52	Peak
2	4958.00	53.36	31.23	5.97	40.22	50.34	54.00	-3.66	Average
3	4958.68	54.81	31.23	5.97	40.22	51.79	74.00	-22.21	Peak
4	7800.94	42.21	36.20	8.01	39.99	46.43	74.00	-27.57	Peak
5	11399.03	40.56	40.40	9.12	40.30	49.78	74.00	-24.22	Peak
Test channel		CH39		Polarity			Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4958.68	51.05	31.23	5.97	40.22	48.03	74.00	-25.97	Peak
2	7413.73	41.97	36.20	7.72	39.91	45.98	74.00	-28.02	Peak
3	9465.98	40.23	38.97	8.59	39.81	47.98	74.00	-26.02	Peak
4	11428.08	40.94	40.43	9.14	40.27	50.24	74.00	-23.76	Peak

BLE 2Mbps

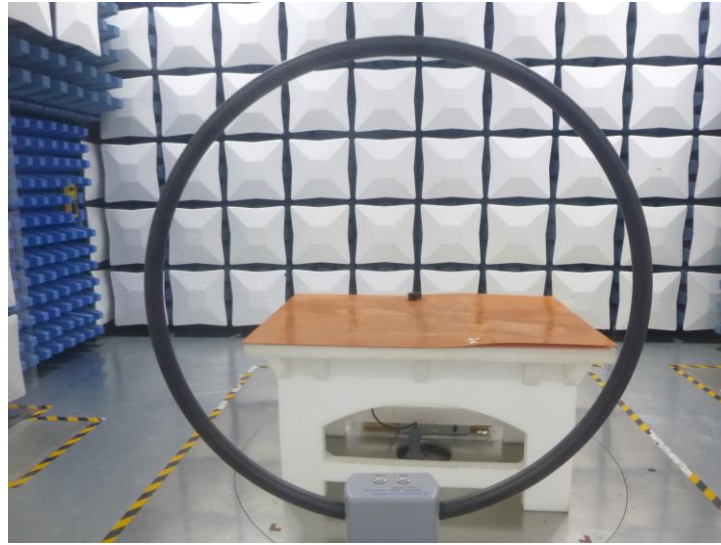
Test channel		CH00		Polarity			Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4004.08	43.47	29.81	5.44	40.31	38.41	74.00	-35.59	Peak
2	4809.50	51.87	31.28	5.89	40.28	48.76	74.00	-25.24	Peak
3	7470.56	41.87	36.20	7.76	39.92	45.91	74.00	-28.09	Peak
4	11312.31	40.49	40.14	9.05	40.39	49.29	74.00	-24.71	Peak
Test channel		CH00		Polarity			Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4809.50	51.46	31.28	5.89	40.28	48.35	74.00	-25.65	Peak
2	6544.35	42.56	34.08	7.16	39.25	44.55	74.00	-29.45	Peak
3	7961.43	41.30	36.92	8.03	39.95	46.30	74.00	-27.70	Peak
4	11457.21	40.68	40.46	9.17	40.24	50.07	74.00	-23.93	Peak

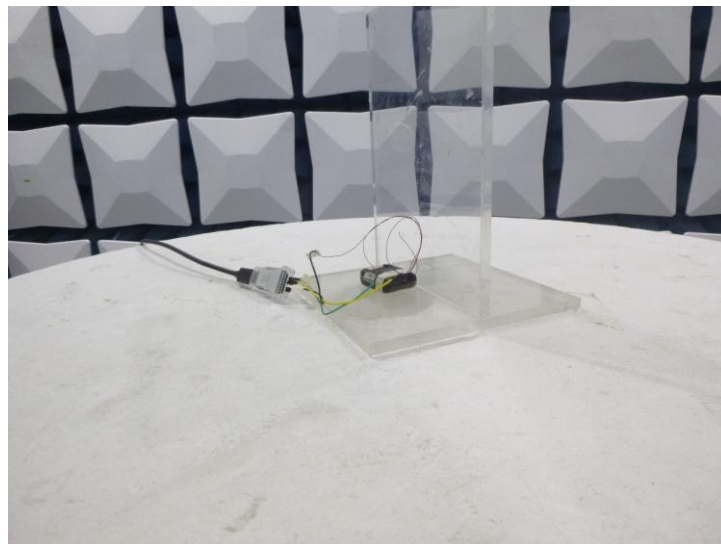
Test channel		CH19		Polarity			Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3672.11	44.00	29.20	5.21	40.80	37.61	74.00	-36.39	Peak
2	4883.52	51.61	31.20	5.93	40.25	48.49	74.00	-25.51	Peak
3	7376.08	42.47	36.20	7.68	39.88	46.47	74.00	-27.53	Peak
4	10888.51	41.04	40.48	8.84	40.59	49.77	74.00	-24.23	Peak
Test channel		CH19		Polarity			Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4559.15	45.22	30.74	5.87	40.39	41.44	74.00	-32.56	Peak
2	4883.52	51.35	31.20	5.93	40.25	48.23	74.00	-25.77	Peak
3	9181.20	39.89	38.69	8.47	39.93	47.12	74.00	-26.88	Peak
4	11457.21	40.94	40.46	9.17	40.24	50.33	74.00	-23.67	Peak

Test channel		CH39		Polarity			Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4559.15	46.14	30.74	5.87	40.39	42.36	74.00	-31.64	Peak
2	4958.68	50.79	31.23	5.97	40.22	47.77	74.00	-26.23	Peak
3	7432.62	42.10	36.20	7.73	39.91	46.12	74.00	-27.88	Peak
4	11515.68	40.16	40.47	9.22	40.22	49.63	74.00	-24.37	Peak
Test channel		CH39		Polarity			Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4055.37	44.49	29.90	5.51	40.26	39.64	74.00	-34.36	Peak
2	4958.68	50.52	31.23	5.97	40.22	47.50	74.00	-26.50	Peak
3	7508.69	41.78	36.18	7.79	39.93	45.82	74.00	-28.18	Peak
4	10587.85	40.92	40.00	8.96	40.29	49.59	74.00	-24.41	Peak

6. TEST SETUP PHOTOS

Radiated Emission



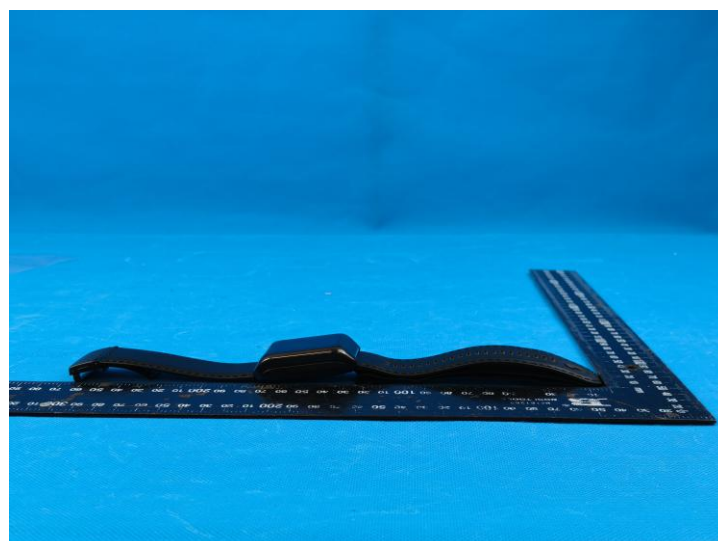
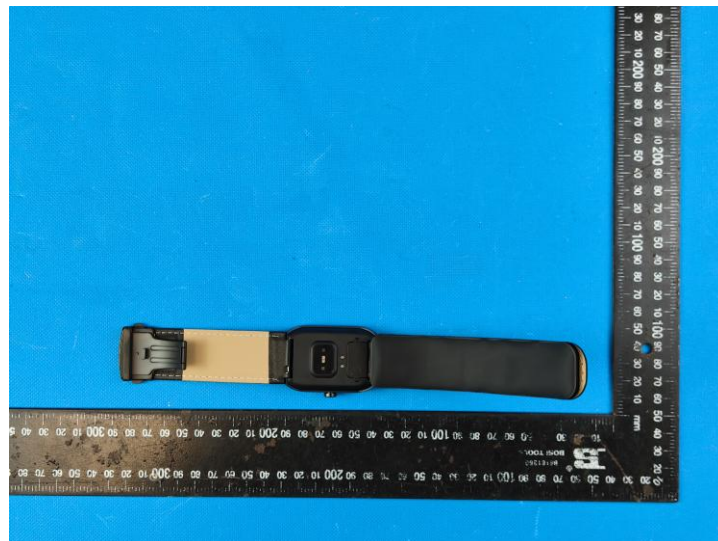
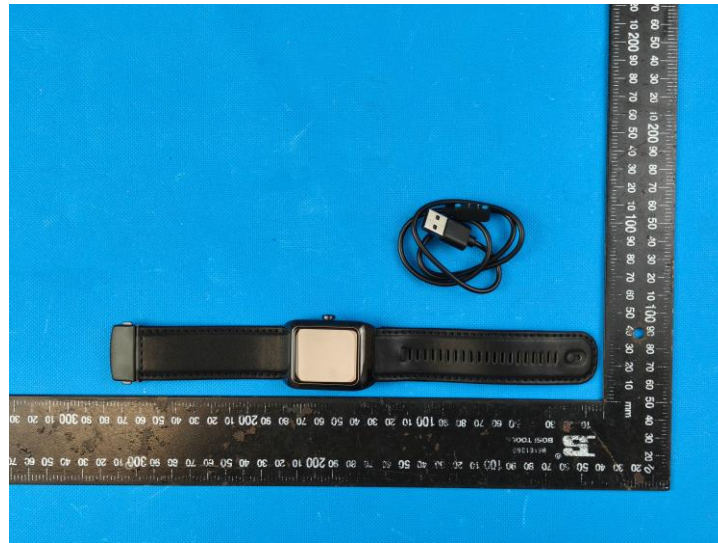


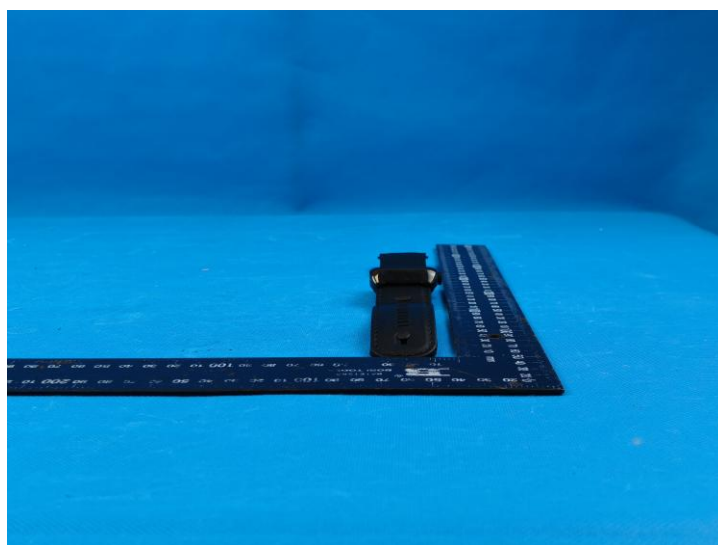
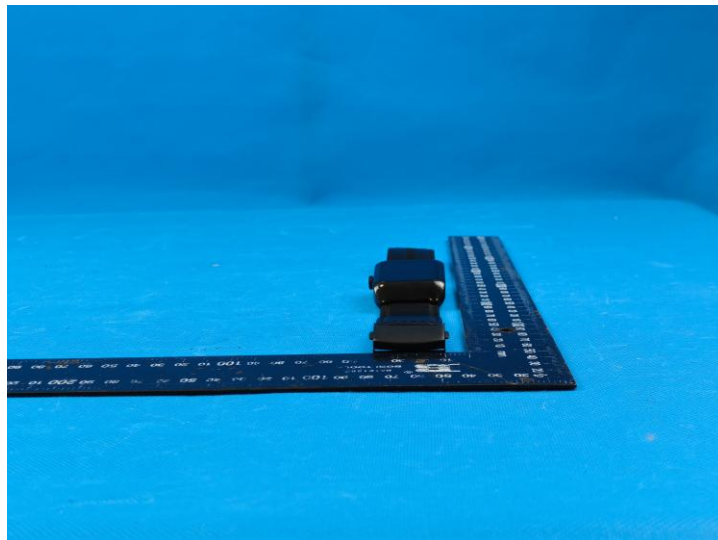
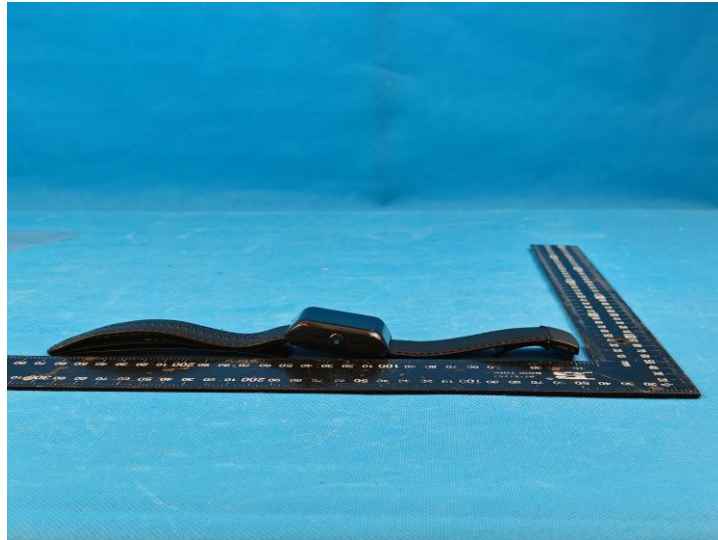
AC Conducted Emission



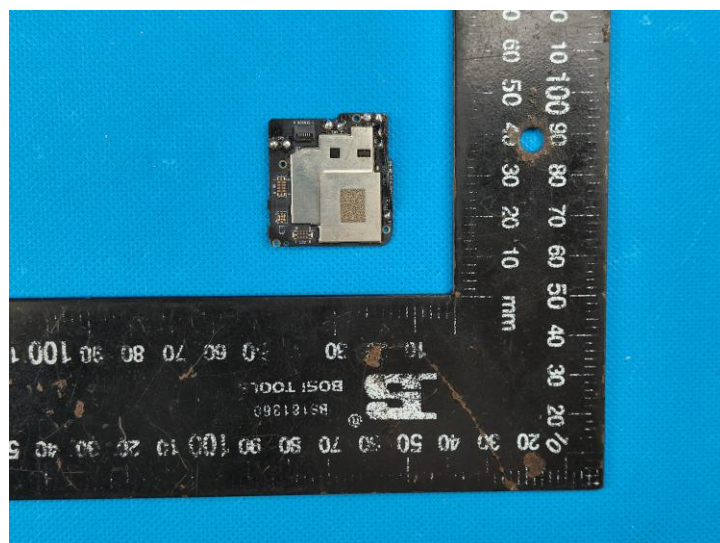
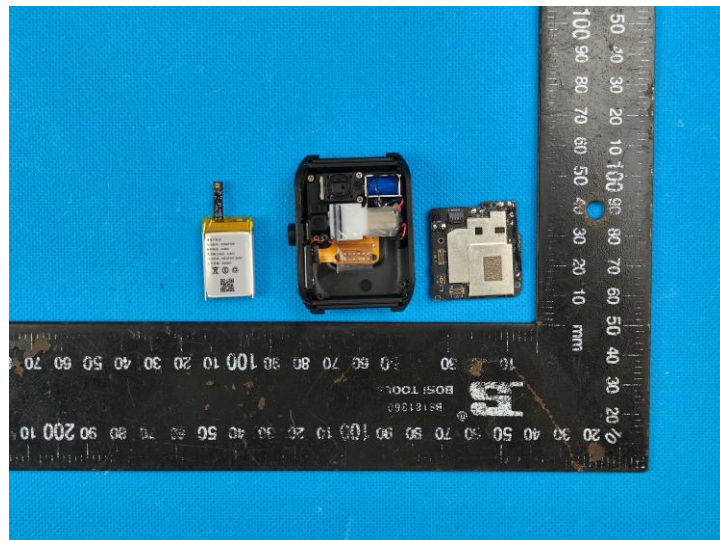
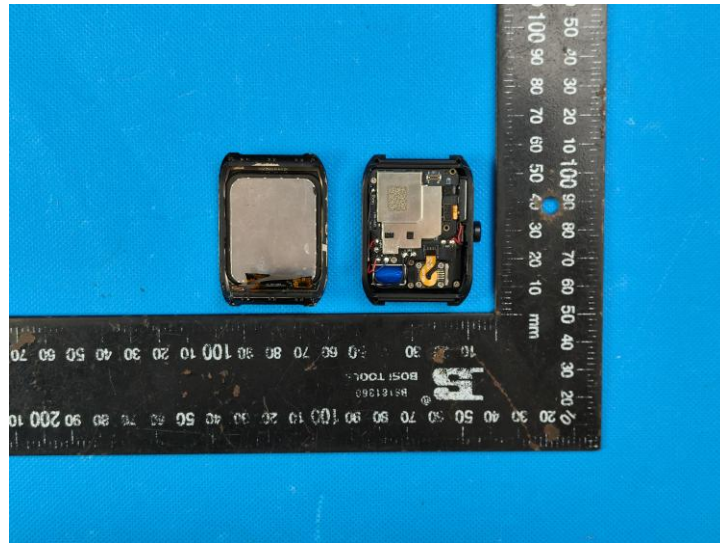
7. EXTERNAL AND INTERNAL PHOTOS

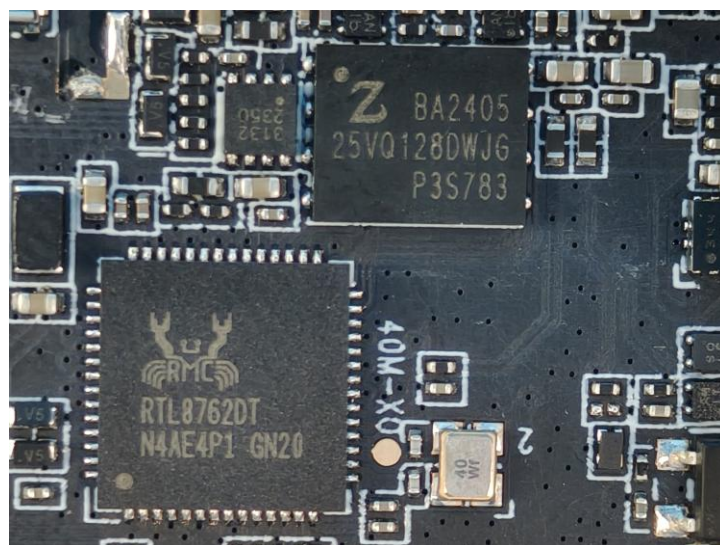
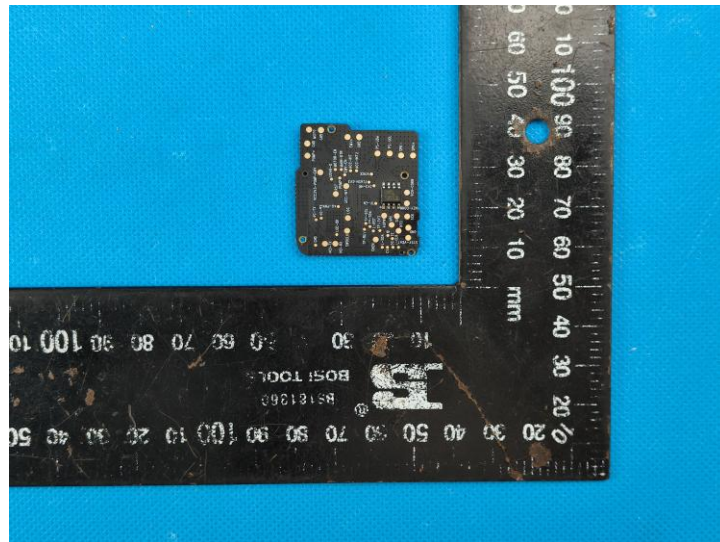
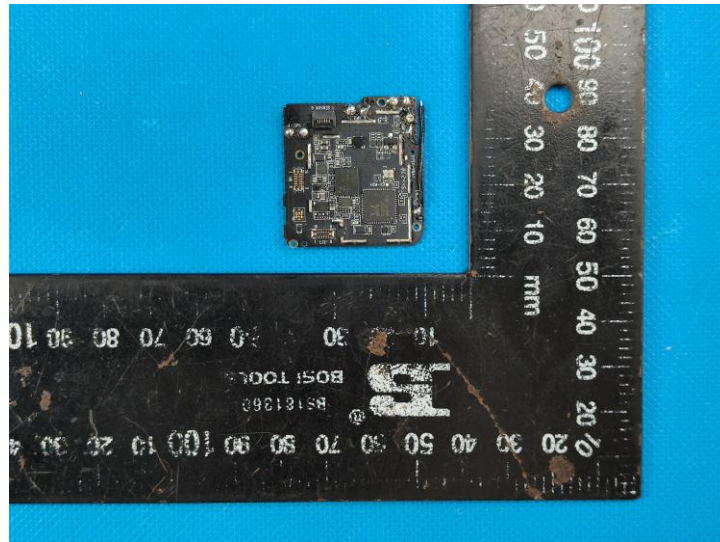
7.1. External Photos





7.2. Internal Photos





8. APPENDIX REPORT

APPENDIX REPORT

Project No.	SHT2409018615W	Radio Specification	Bluetooth BLE
Test sample No.	YPHT24090186001	Model No.	U16H
Start test date	2025-02-27	Finish date	2025-02-27
Temperature	22.3℃	Humidity	52%
Test Engineer	Xiangyu Wei	Auditor	Xiaodong Zhu

Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

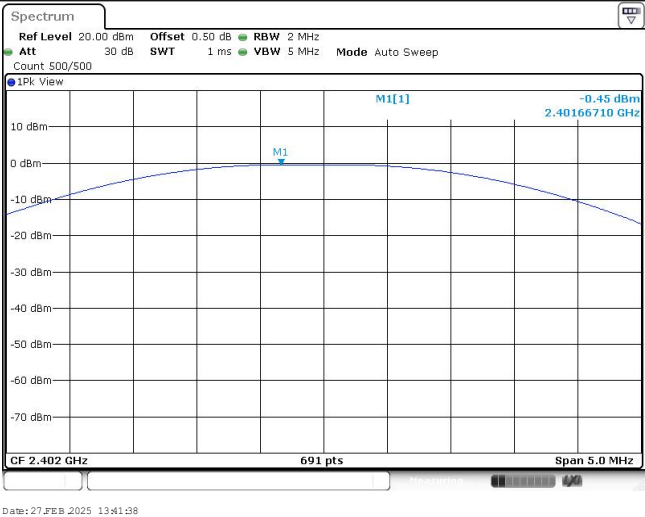
Appendix A: Peak Output Power

Test rate	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
1Mbps	00	-0.45	-0.49	≤ 30.00	Pass
	19	-1.05	-1.12		
	39	-1.57	-1.63		
2Mbps	00	-0.45	-0.48	≤ 30.00	Pass
	19	-1.04	-1.10		
	39	-1.56	-1.62		

Test rate:

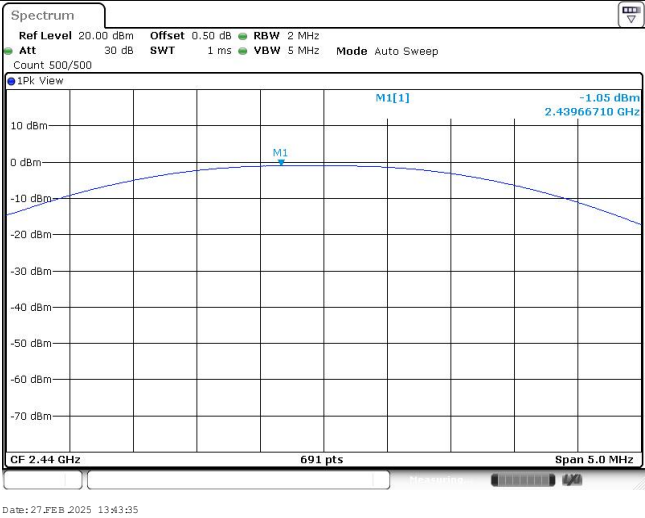
1Mbps

CH00



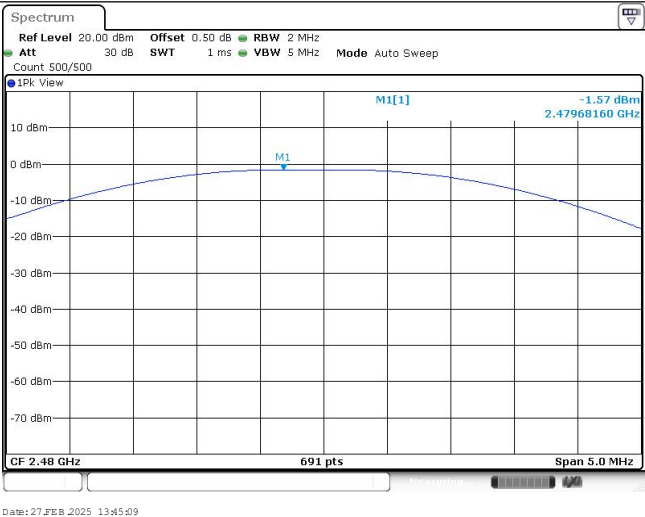
Date: 27 FEB 2025 13:41:38

CH19



Date: 27 FEB 2025 13:43:35

CH39

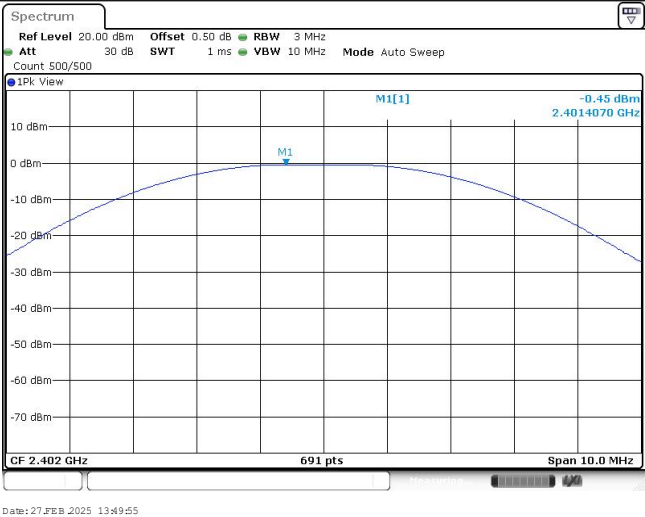


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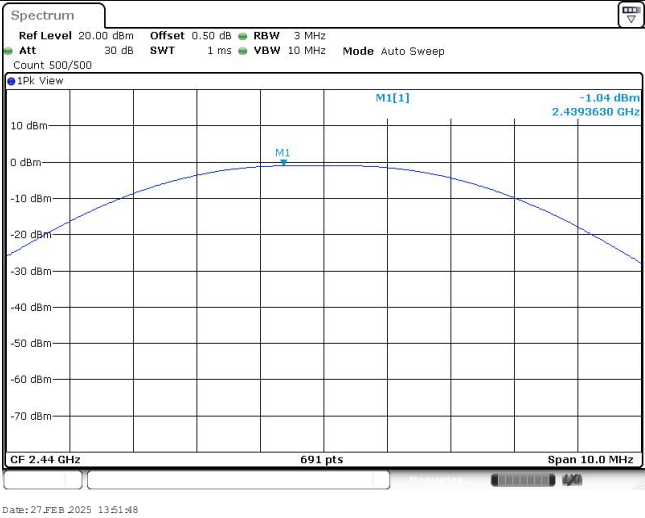
Test rate:

2Mbps

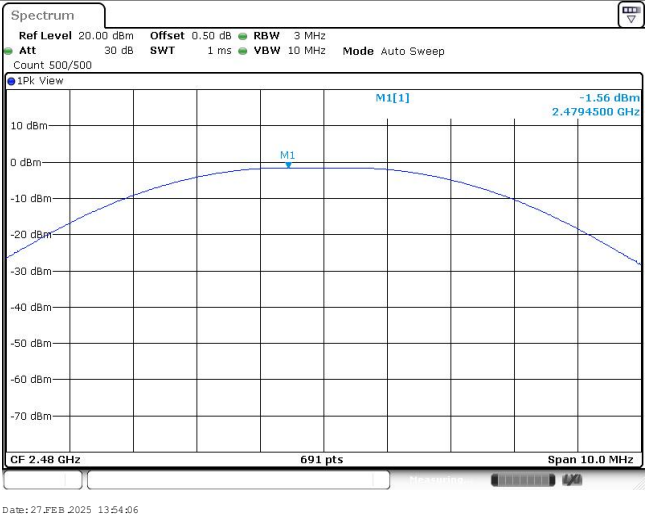
CH00



CH19



CH39



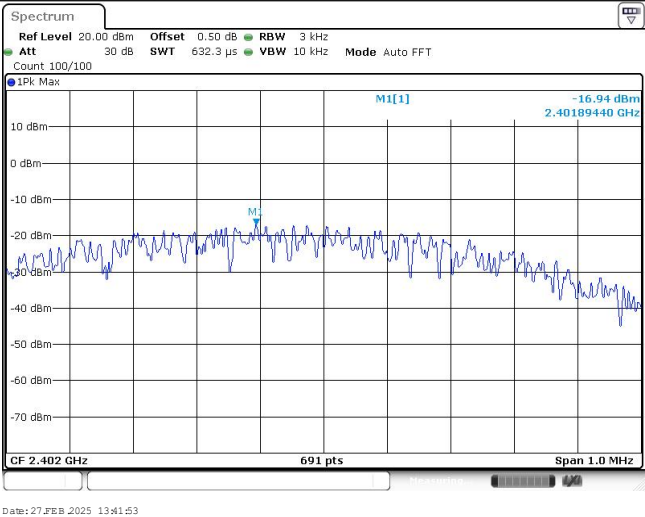
Appendix B: Power Spectral Density

Test rate	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
1Mbps	00	-16.91	≤8.00	Pass
	19	-16.30		
	39	-17.60		
2Mbps	00	-17.81	≤8.00	Pass
	19	-18.34		
	39	-17.77		

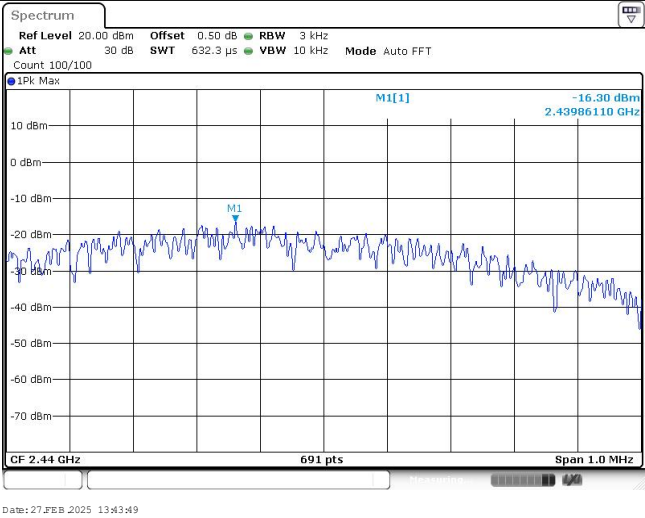
Test rate:

1Mbps

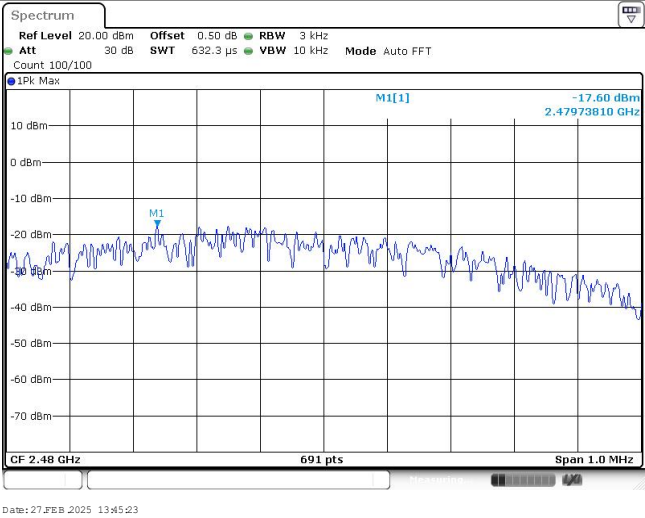
CH00



CH19



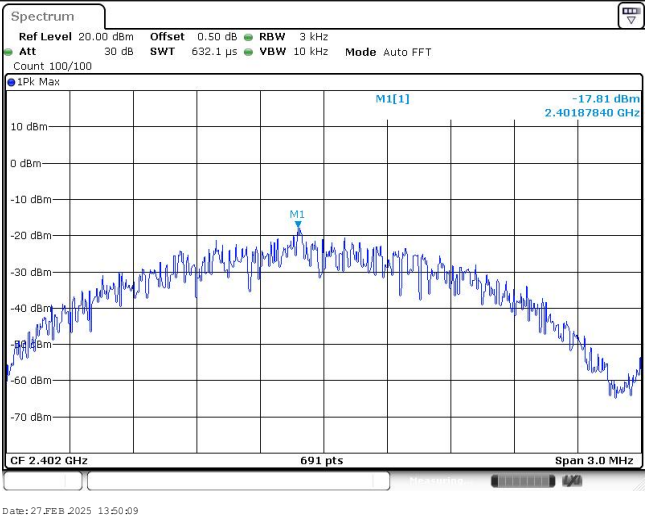
CH39



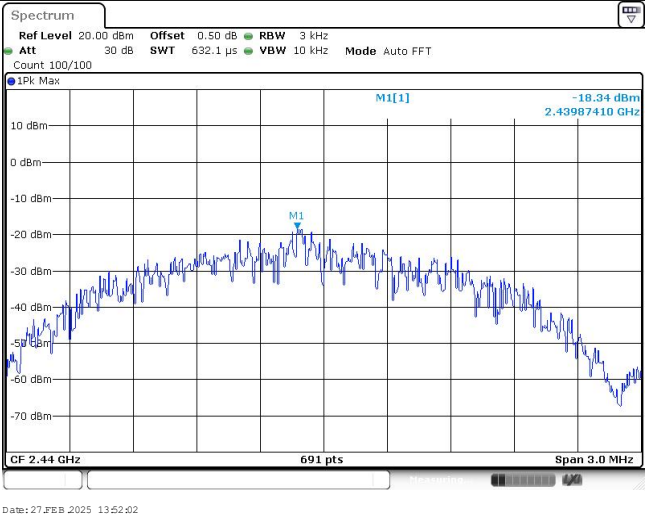
Test rate:

2Mbps

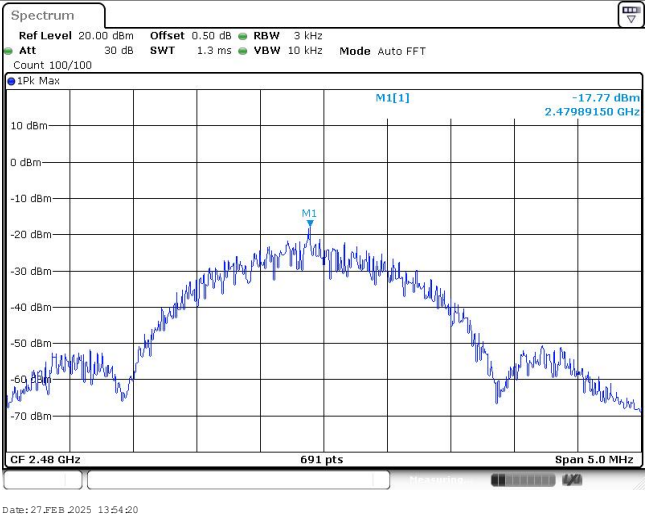
CH00



CH19



CH39



Appendix C: 6dB bandwidth

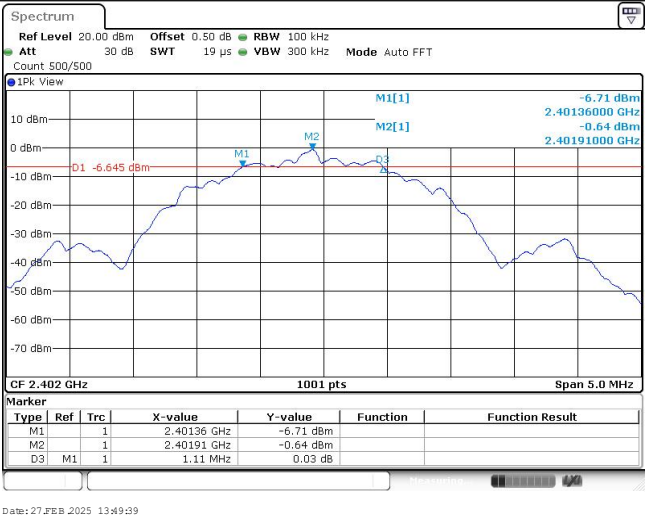
Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
1Mbps	00	652.00	≥500	Pass
	19	668.00		
	39	670.00		
2Mbps	00	1110.00	≥500	Pass
	19	960.00		
	39	1115.00		



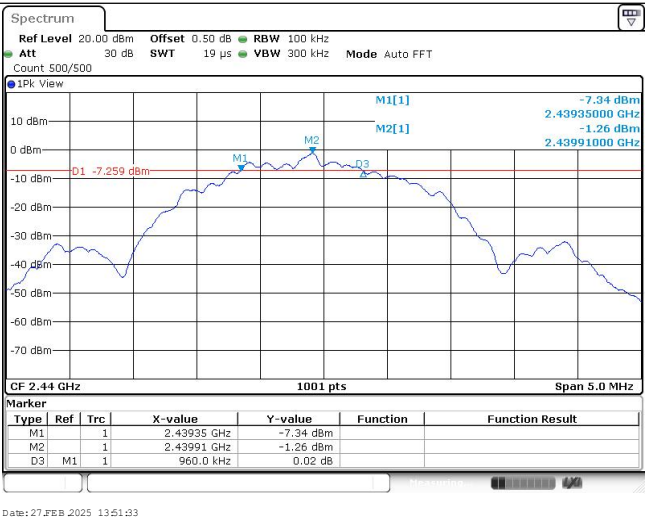
Test rate:

2Mbps

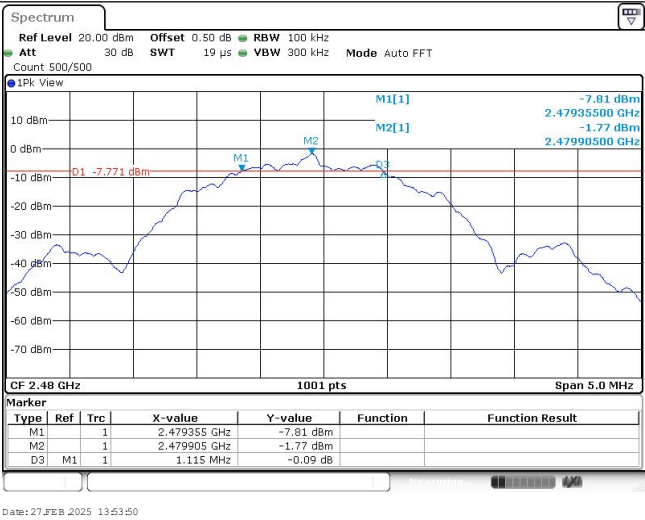
CH00



CH19



CH39



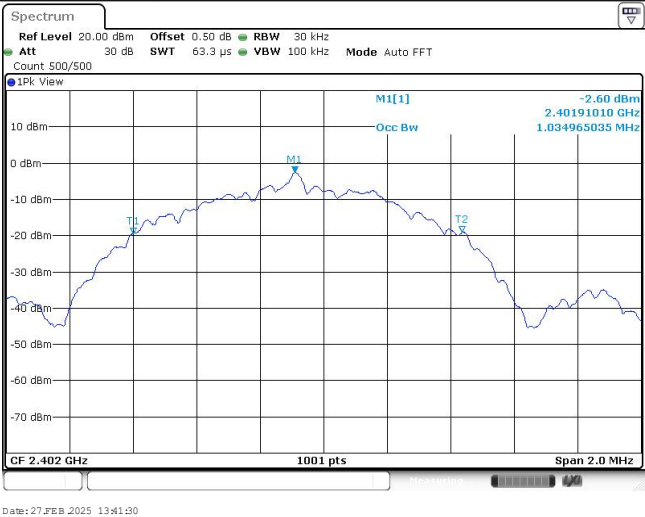
Appendix D: 99% Occupied Bandwidth

Test rate	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
1Mbps	00	1.03	-	Pass
	19	1.03		
	39	1.03		
2Mbps	00	2.06	-	Pass
	19	2.05		
	39	2.04		

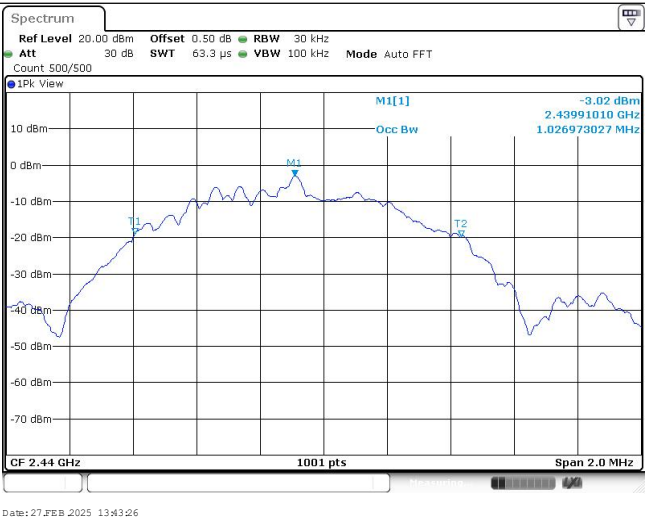
Test rate:

1Mbps

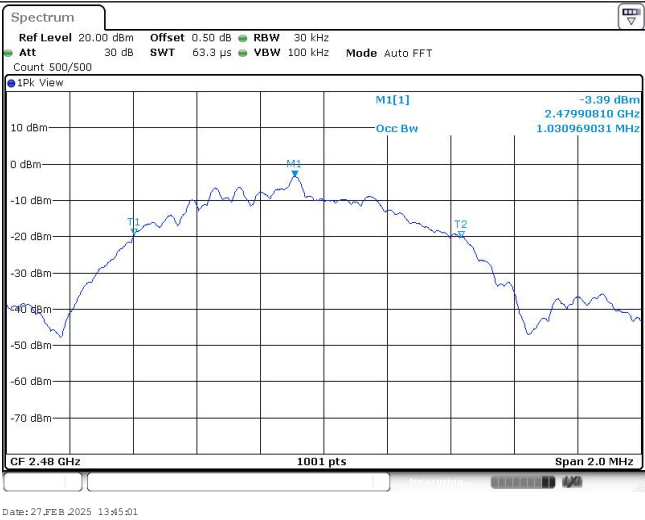
CH00



CH19



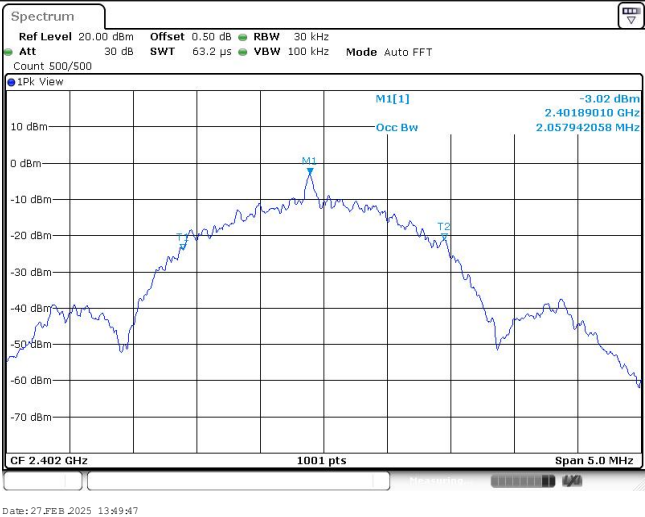
CH39



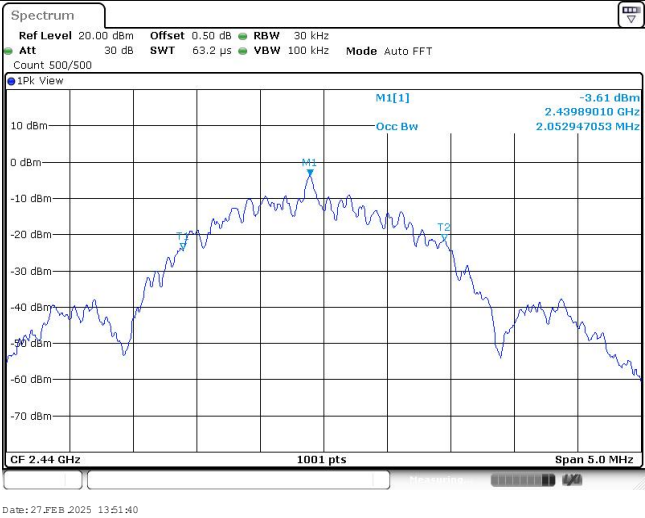
Test rate:

2Mbps

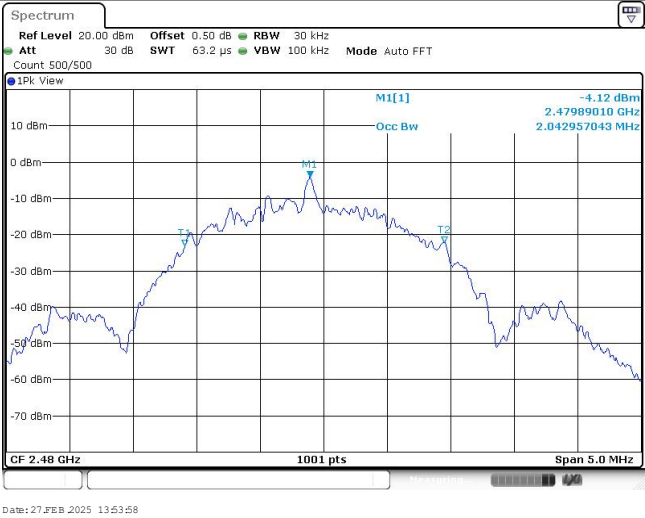
CH00



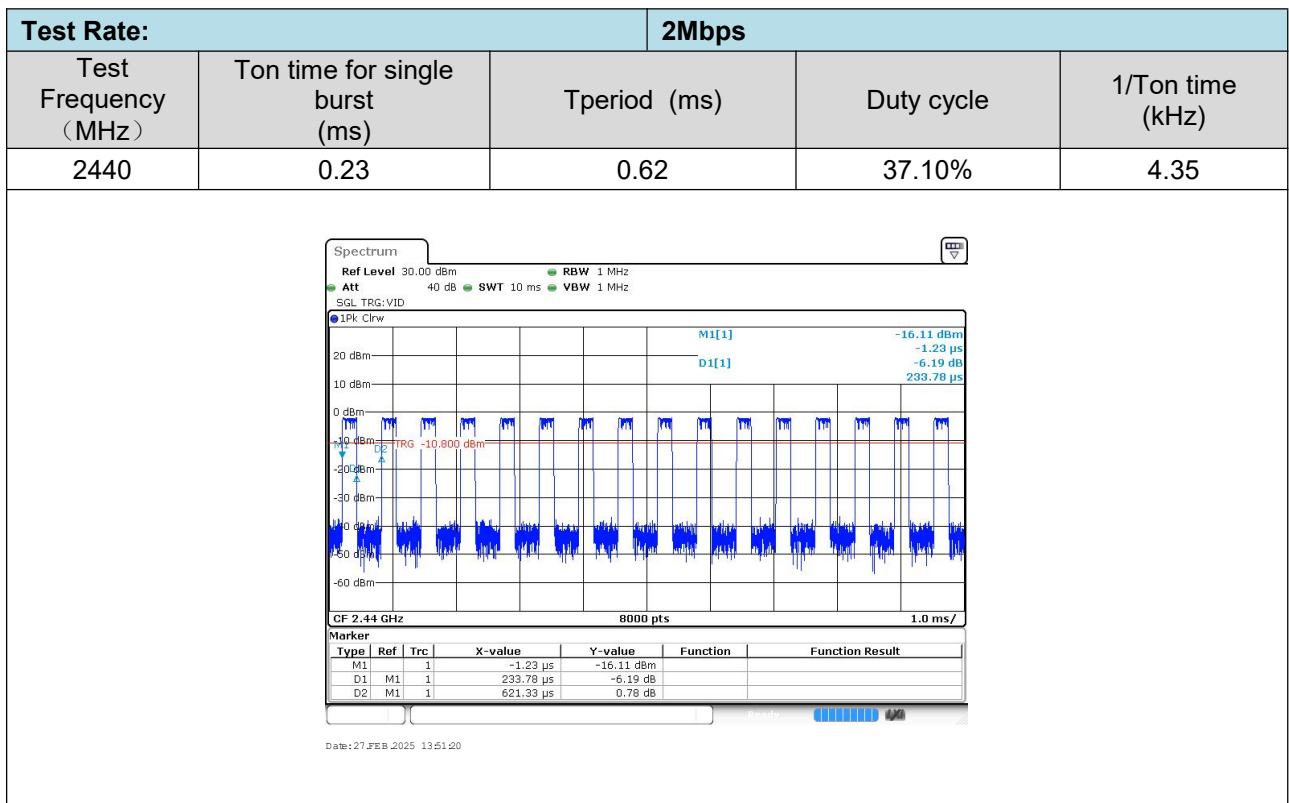
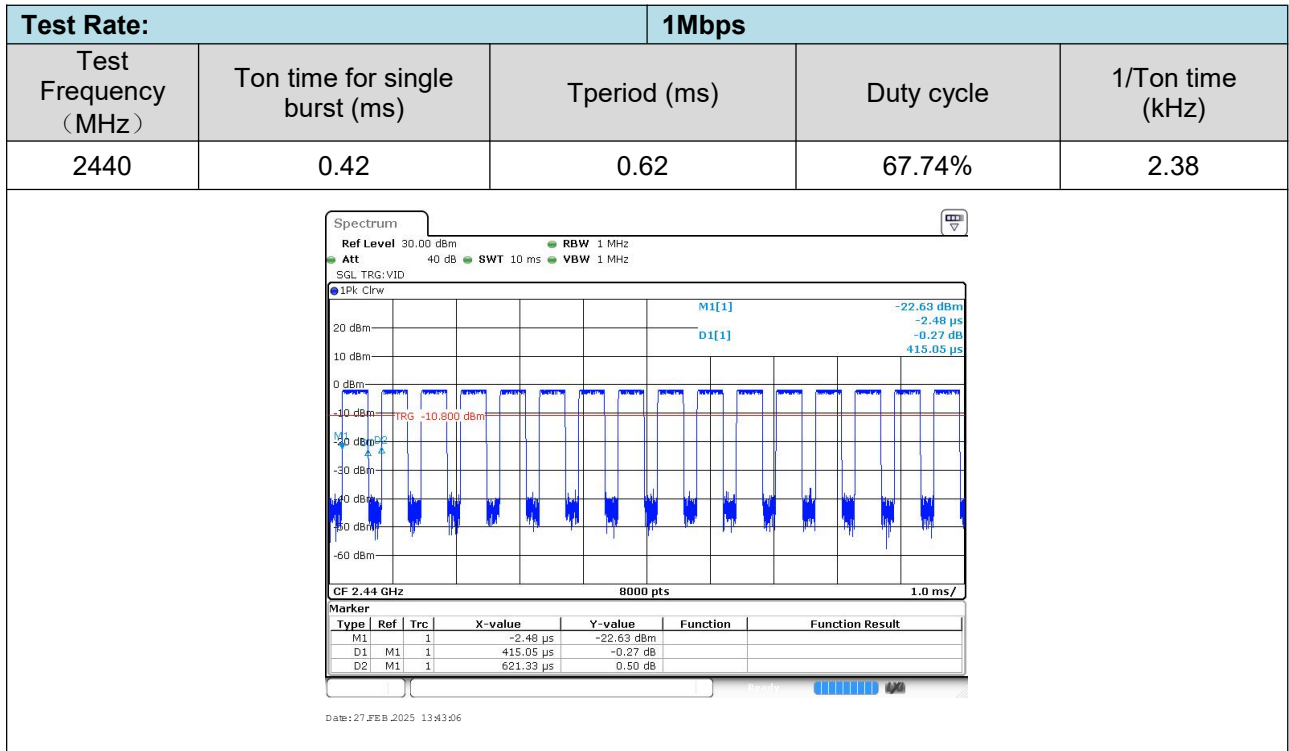
CH19



CH39



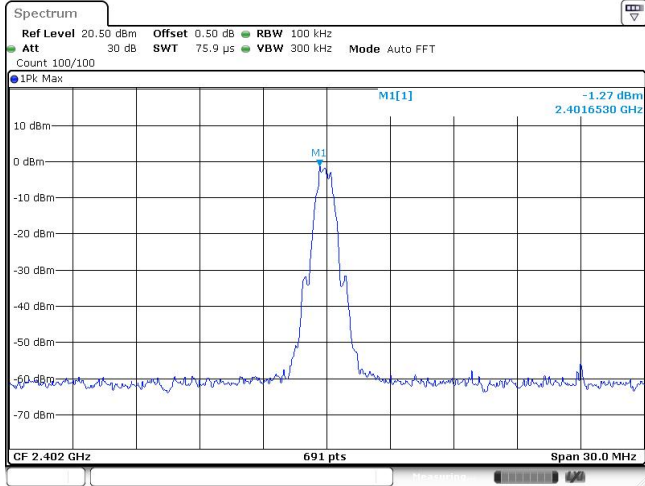
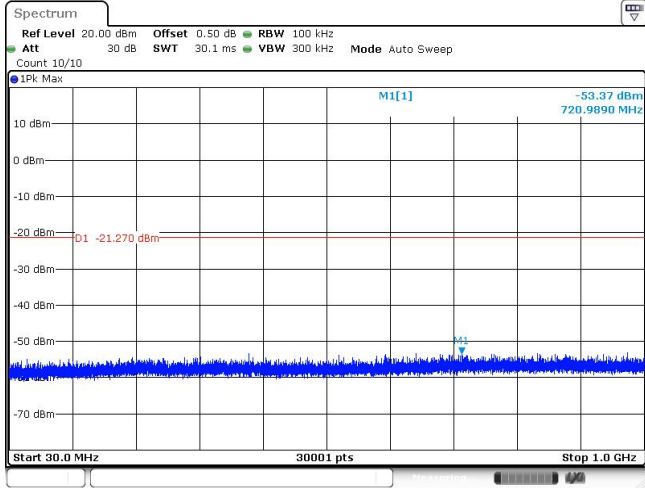
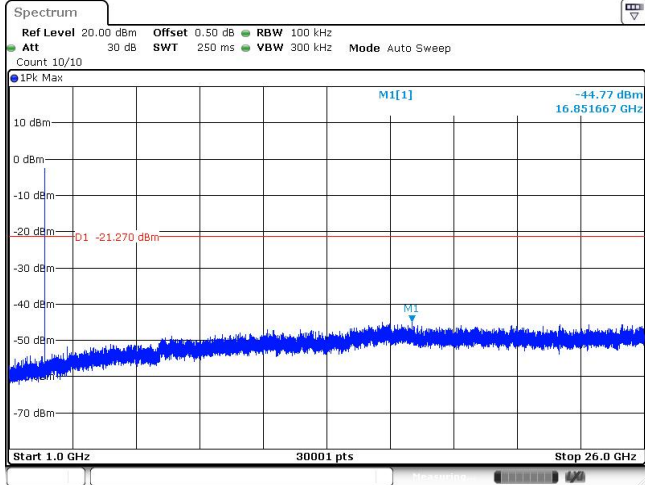
Appendix E: Duty cycle

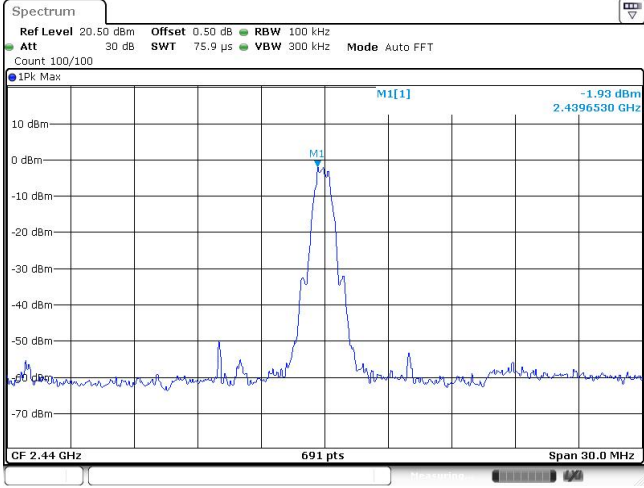
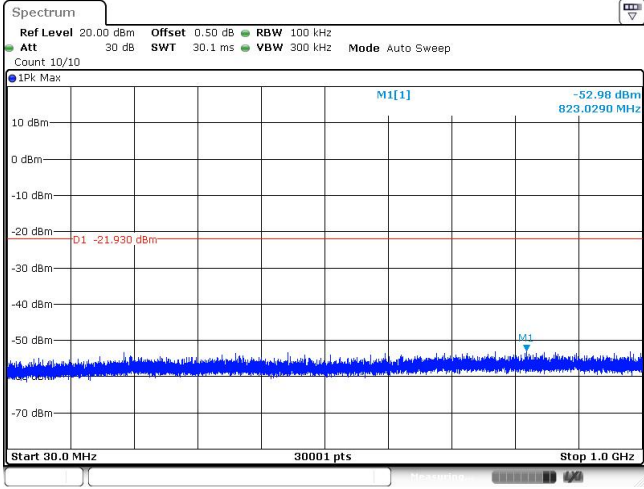
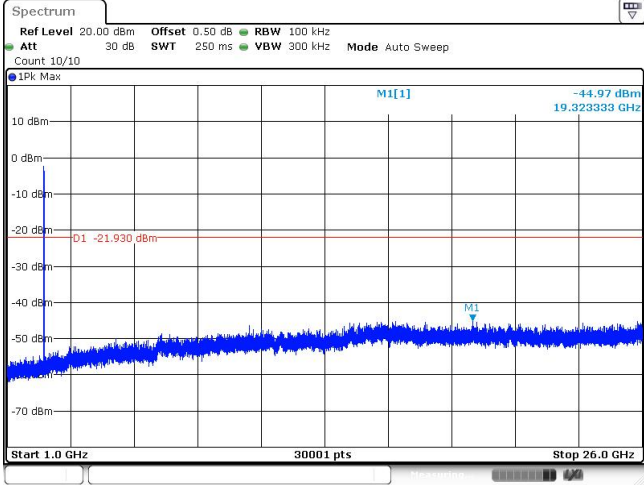


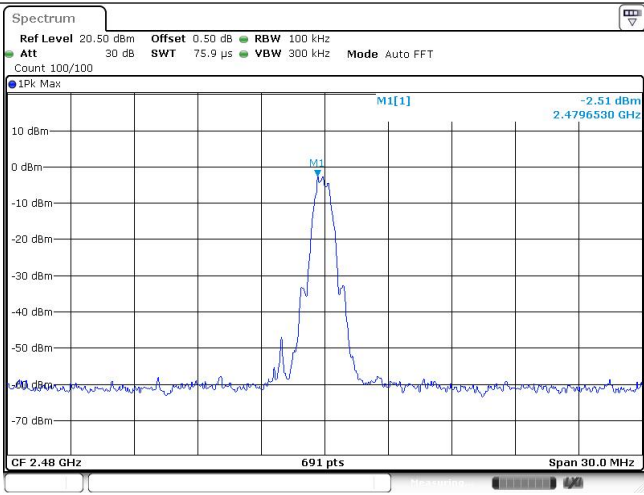
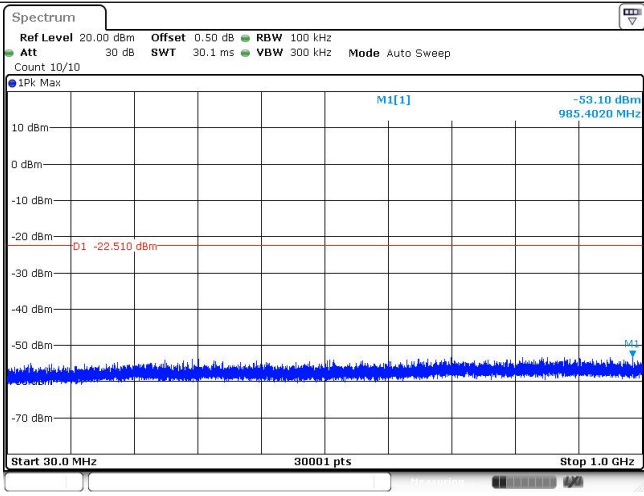
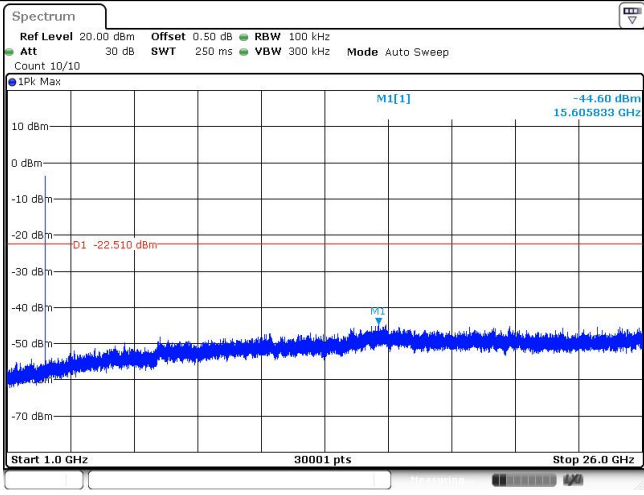
Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge	Test Rate:	1Mbps																																										
CH00	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 M1[1] M2[1] M4 M3 M5 -1.27 dBm 2.401910 GHz -56.18 dBm 2.400000 GHz Start 2.31 GHz 691 pts Stop 2.405 GHz <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>2.40191 GHz</td><td>-1.27 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-56.18 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-55.65 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-54.95 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.375674 GHz</td><td>-54.27 dBm</td><td></td><td></td></tr></table> Date: 27 FEB 2025 13:42:01			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40191 GHz	-1.27 dBm			M2	1		2.4 GHz	-56.18 dBm			M3	1		2.39 GHz	-55.65 dBm			M4	1		2.31 GHz	-54.95 dBm			M5	1		2.375674 GHz	-54.27 dBm		
	Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.40191 GHz	-1.27 dBm																																									
M2	1		2.4 GHz	-56.18 dBm																																									
M3	1		2.39 GHz	-55.65 dBm																																									
M4	1		2.31 GHz	-54.95 dBm																																									
M5	1		2.375674 GHz	-54.27 dBm																																									
CH39	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 100/100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2[1] M2 M4 -1.84 dBm 2.4798940 GHz -60.58 dBm 2.4835000 GHz Start 2.478 GHz 691 pts Stop 2.5 GHz <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>2.479894 GHz</td><td>-1.84 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-60.58 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-60.94 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4953449 GHz</td><td>-58.08 dBm</td><td></td><td></td></tr></table> Date: 27 FEB 2025 13:45:32			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.479894 GHz	-1.84 dBm			M2	1		2.4835 GHz	-60.58 dBm			M3	1		2.5 GHz	-60.94 dBm			M4	1		2.4953449 GHz	-58.08 dBm									
	Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.479894 GHz	-1.84 dBm																																									
M2	1		2.4835 GHz	-60.58 dBm																																									
M3	1		2.5 GHz	-60.94 dBm																																									
M4	1		2.4953449 GHz	-58.08 dBm																																									

Test Item:	Band edge	Test Rate:	2Mbps																																										
CH00	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 M1[1] M2[1] M3 -1.18 dBm 2.401910 GHz -32.86 dBm 2.400000 GHz 01 -21.180 dBm 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>2.40191 GHz</td><td>-1.18 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-32.86 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-56.65 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-55.64 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399906 GHz</td><td>-35.71 dBm</td><td></td><td></td></tr></table> Date: 27 FEB 2025 13:50:18			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40191 GHz	-1.18 dBm			M2	1		2.4 GHz	-32.86 dBm			M3	1		2.39 GHz	-56.65 dBm			M4	1		2.31 GHz	-55.64 dBm			M5	1		2.399906 GHz	-35.71 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.40191 GHz	-1.18 dBm																																									
M2	1		2.4 GHz	-32.86 dBm																																									
M3	1		2.39 GHz	-56.65 dBm																																									
M4	1		2.31 GHz	-55.64 dBm																																									
M5	1		2.399906 GHz	-35.71 dBm																																									
CH39	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 100/100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M1[1] M2[1] M2[14] -1.82 dBm 2.4798940 GHz -60.01 dBm 2.4835000 GHz 01 -21.820 dBm 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>2.479894 GHz</td><td>-1.82 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-60.01 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-61.28 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4839623 GHz</td><td>-58.61 dBm</td><td></td><td></td></tr></table> Date: 27 FEB 2025 13:54:29			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.479894 GHz	-1.82 dBm			M2	1		2.4835 GHz	-60.01 dBm			M3	1		2.5 GHz	-61.28 dBm			M4	1		2.4839623 GHz	-58.61 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
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M4	1		2.4839623 GHz	-58.61 dBm																																									

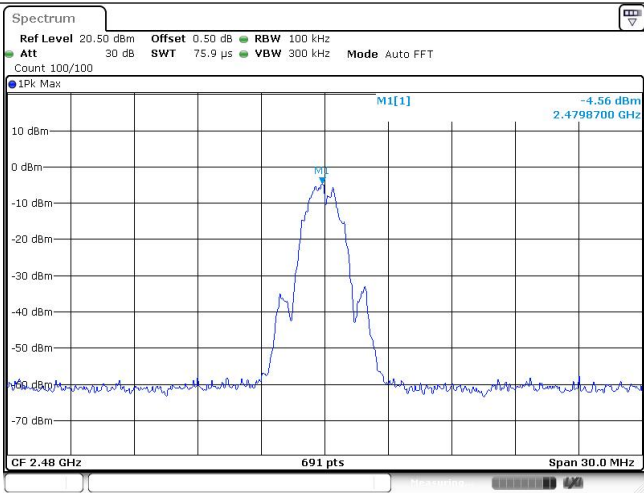
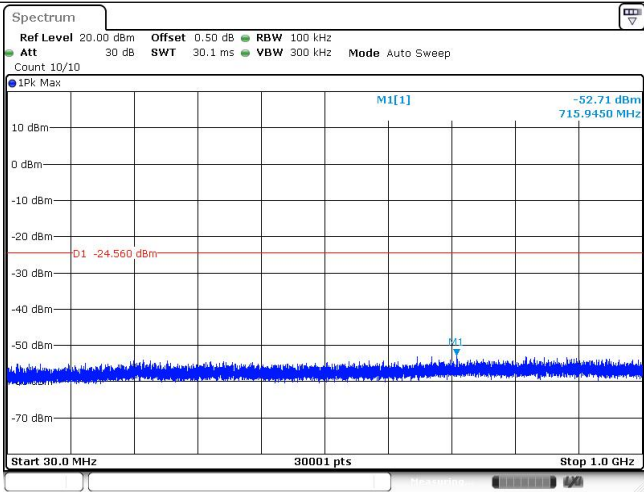
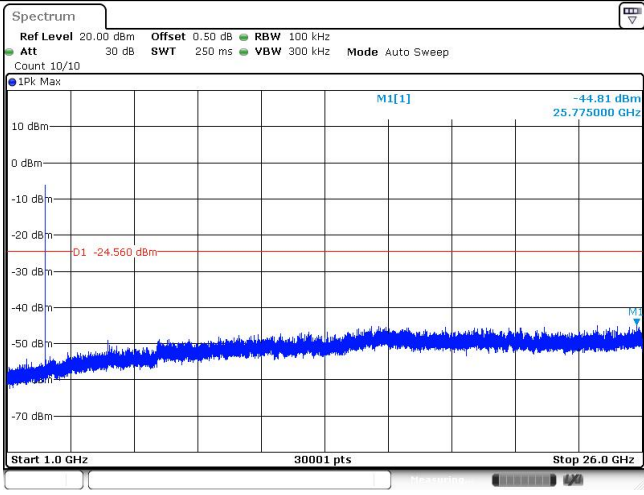
Test Item:	SE	Test Rate:	1Mbps
CH00 Reference level	 Date: 27.FEB.2025 13:42:08		
CH00 30MHz~1000MHz	 Date: 27.FEB.2025 13:42:23		
CH00 1GHz~26GHz	 Date: 27.FEB.2025 13:42:39		

CH19 Reference level	 Date: 27 FEB 2025 13:43:54
CH19 30MHz~1000MHz	 Date: 27 FEB 2025 13:44:09
CH19 1GHz~26GHz	 Date: 27 FEB 2025 13:44:24

CH39 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 IPk Max M1[1] -2.51 dBm 2.4796530 GHz CF 2.48 GHz 691 pts Span 30.0 MHz Date: 27 FEB 2025 13:45:37
CH39 30MHz~1000MHz	 Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -53.10 dBm 985.4020 MHz D1 -22.510 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 27 FEB 2025 13:45:52
CH39 1GHz~26GHz	 Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -44.60 dBm 15.605839 GHz D1 -22.510 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 27 FEB 2025 13:46:08

Test Item:	SE	Test Rate:	2Mbps
CH00 Reference level	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 0.50 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max MI[1] -3.55 dBm 2.4018700 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.402 GHz 691 pts Span 30.0 MHz Date: 27 FEB 2025 13:50:24		
CH00 30MHz~1000MHz	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 0.50 dB SWT 30.1 ms RBW 100 kHz VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max MI[1] -52.37 dBm 930.9220 MHz -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm D1 -22.960 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 27 FEB 2025 13:50:39		
CH00 1GHz~26GHz	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 0.50 dB SWT 250 ms RBW 100 kHz VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max MI[1] -44.51 dBm 16.435000 GHz -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm D1 -22.960 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 27 FEB 2025 13:50:54		

CH19 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 IPk Max M1[1] -2.87 dBm 2.4399130 GHz CF 2.44 GHz 691 pts Span 30.0 MHz Date: 27 FEB 2025 13:52:08
CH19 30MHz~1000MHz	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -52.46 dBm 886.2390 MHz Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 27 FEB 2025 13:52:22
CH19 1GHz~26GHz	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -44.34 dBm 15.805839 GHz Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 27 FEB 2025 13:52:38

CH39 Reference level	 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 IPk Max M1[1] -4.56 dBm 2.4798700 GHz CF 2.48 GHz 691 pts Span 30.0 MHz Date: 27 FEB 2025 13:54:34
CH39 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -52.71 dBm 715.9450 MHz D1 -24.560 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 27 FEB 2025 13:54:49
CH39 1GHz~26GHz	 Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -44.81 dBm 25.775000 GHz D1 -24.560 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 27 FEB 2025 13:55:04

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