

TEST REPORT

Reference No...... : WTX24X08191416W003
FCC ID..... : 2BGU6-VEIDOO
Applicant..... : Shenzhen Veidoo Digital Vision Co.,Ltd
Address..... : 4th Floor Block 6, Saitu Technology Park, No. 137 Bulan Road, Jihua Street,
Longgang District, Shenzhen, China
Manufacturer..... : The same as Applicant
Address..... : The same as Applicant
Product Name..... : Tablet PC
Model No...... : VEIDOO T70 PLUS
Standards..... : FCC Part 15.247
Date of Receipt sample..... : 2024-08-14
Date of Test..... : 2024-08-14 to 2024-10-08
Date of Issue..... : 2024-10-08
Test Report Form No...... : WTX_Part 15_247W
Test Result..... : **Pass**

Remarks:

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

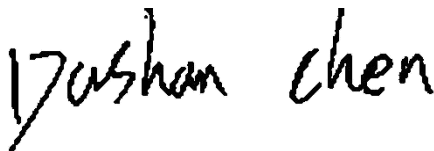
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TABLE OF CONTENTS

1. GENERAL INFORMATION	5
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
1.2 TEST STANDARDS	6
1.3 TEST METHODOLOGY	6
1.4 TEST FACILITY	6
1.5 EUT SETUP AND TEST MODE	7
1.6 MEASUREMENT UNCERTAINTY	9
1.7 TEST EQUIPMENT LIST AND DETAILS	10
2. SUMMARY OF TEST RESULTS	13
3. ANTENNA REQUIREMENT	14
3.1 STANDARD APPLICABLE	14
3.2 EVALUATION INFORMATION	14
4. FREQUENCY HOPPING SYSTEM REQUIREMENTS	15
4.1 STANDARD APPLICABLE	15
4.2 FREQUENCY HOPPING SYSTEM	15
4.3 EUT PSEUDORANDOM FREQUENCY HOPPING SEQUENCE	16
5. QUANTITY OF HOPPING CHANNELS AND CHANNEL SEPARATION	17
5.1 STANDARD APPLICABLE	17
5.2 TEST SETUP BLOCK DIAGRAM	17
5.3 TEST PROCEDURE	17
5.4 SUMMARY OF TEST RESULTS/PLOTS	18
6. DWELL TIME OF HOPPING CHANNEL	19
6.1 STANDARD APPLICABLE	19
6.2 TEST SETUP BLOCK DIAGRAM	19
6.3 TEST PROCEDURE	19
6.4 SUMMARY OF TEST RESULTS/PLOTS	20
7. 20DB BANDWIDTH	21
7.1 STANDARD APPLICABLE	21
7.2 TEST SETUP BLOCK DIAGRAM	21
7.3 TEST PROCEDURE	21
7.4 SUMMARY OF TEST RESULTS/PLOTS	22
8. RF OUTPUT POWER	23
8.1 STANDARD APPLICABLE	23
8.2 TEST SETUP BLOCK DIAGRAM	23
8.3 TEST PROCEDURE	23
8.4 SUMMARY OF TEST RESULTS/PLOTS	23
9. FIELD STRENGTH OF SPURIOUS EMISSIONS	24
9.1 STANDARD APPLICABLE	24
9.2 TEST PROCEDURE	24
9.3 CORRECTED AMPLITUDE & MARGIN CALCULATION	26
9.4 SUMMARY OF TEST RESULTS/PLOTS	26
10. OUT OF BAND EMISSIONS	30
10.1 STANDARD APPLICABLE	30
10.2 TEST PROCEDURE	30
10.3 SUMMARY OF TEST RESULTS/PLOTS	31
11. CONDUCTED EMISSIONS	34
11.1 TEST PROCEDURE	34
11.2 BASIC TEST SETUP BLOCK DIAGRAM	34
11.3 TEST RECEIVER SETUP	34
11.4 SUMMARY OF TEST RESULTS/PLOTS	34

APPENDIX SUMMARY37

APPENDIX A38

APPENDIX B43

APPENDIX C47

APPENDIX D51

APPENDIX E55

APPENDIX PHOTOGRAPHS 64

Report version

Version No.	Date of issue	Description
Rev.00	2024-10-08	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Tablet PC
Trade Name	/
Model No.:	VEIDOO T70 PLUS
Adding Model(s):	VEIDOO T40, T60 PLUS, VEIDOO T70, T50, T30 PLUS, T40 PLUS, VEIDOO T60 PLUS, VEIDOO T80, T80 PLUS, T60
Rated Voltage:	DC3.7V
Battery Capacity:	5000mAh
Adapter Model:	CT-050200UA Input:AC100-240V 50/60Hz 0.3A Output:DC5V2.0A
<i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model VEIDOO T70 PLUS, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Bluetooth Version:	V5.4 (BR/EDR mode)
Frequency Range:	2402-2480MHz
RF Output Power:	-3.54dBm (Conducted)
Data Rate:	1Mbps, 2Mbps, 3Mbps
Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Quantity of Channels:	79
Channel Separation:	1MHz
Type of Antenna:	PIFA Antenna
Antenna Gain:	2.63dBi
<i>Note The Antenna Gain is provided by the customer and can affect the validity of results.</i>	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

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.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, the equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	Low Channel	2402MHz
TM2	Middle Channel	2441MHz
TM3	High Channel	2480MHz
TM4	Hopping	2402-2480MHz

Modulation Configure			
Modulation	Packet	Packet Type	Packet Size
GFSK	DH1	4	27
	DH3	11	183
	DH5	15	339
$\pi/4$ DQPSK	2DH1	20	54
	2DH3	26	367
	2DH5	30	679
8DPSK	3DH1	24	83
	3DH3	27	552
	3DH5	31	1021
Normal mode: the Bluetooth has been tested on the modulation of GFSK, $\pi/4$ DQPSK and 8DPSK, compliance test and record the worst case.			

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~75 %
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB Cable	0.95	Shielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
Earphone Cable	1.0	Unshielded	Without Ferrite

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Notebook	Lenovo	TianYi 100-14IBD	PF0F4ABV

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-26GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A 1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2024-02-24	2025-02-23
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2024-03-19	2025-03-18
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2024-02-24	2025-02-23
WTXE1004A 1-001	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2024-02-27	2025-02-26
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2024-02-24	2025-02-23
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2024-02-24	2025-02-23
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2024-02-24	2025-02-23
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2024-02-24	2025-02-23
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1065A 1001	Amplifier	C&D	PAP-1G18	2002	2024-02-27	2025-02-26
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2024-02-26	2025-02-25
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2024-02-24	2025-02-23

WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2024-02-24	2025-02-23
☒ Chamber C: Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
WTXE1007A 1002	Amplifier	HP	8447F	2944A038 69	2024-02-24	2025-02-23
☒ Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2024-02-27	2025-02-26
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28
☐ Conducted Room 1#						
WTXE1104A 1029	EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2023-12-12	2024-12-11
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2024-02-24	2025-02-23
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2024-02-24	2025-02-23
☒ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2024-02-24	2025-02-23
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2024-02-24	2025-02-23

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission A)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission B)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission C)	Farad	EZ-EMC	RA-03A1-2 (1.1.4.2)
EMI Test Software (Conducted Emission Room 1#)	Farad	EZ-EMC	3A1*CE-RE 1.1.4.3
EMI Test Software (Conducted Emission Room 2#)	Farad	EZ-EMC	3A1*CE-RE 1.1.4.3

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.207(a)	Conducted Emission	Compliant
§15.209(a)	Radiated Spurious Emissions	Compliant
§15.247(a)(1)(iii)	Quantity of Hopping Channel	Compliant
§15.247(a)(1)	Channel Separation	Compliant
§15.247(a)(1)(iii)	Time of Occupancy (Dwell time)	Compliant
§15.247(a)	20dB Bandwidth	Compliant
§15.247(b)(1)	RF Power Output	Compliant
§15.247(d)	Band Edge (Out of Band Emissions)	Compliant
§15.247(a)(1)	Frequency Hopping Sequence	Compliant
§15.247(g), (h)	Frequency Hopping System	Compliant

N/A: Not applicable.

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 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 shall be considered sufficient to comply with the provisions of this section.

3.2 Evaluation Information

This product has an PIFA Antenna, fulfill the requirement of this section.

4. Frequency Hopping System Requirements

4.1 Standard Applicable

According to FCC Part 15.247(a)(1), 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.

(g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

(h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

4.2 Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule.

This device uses Bluetooth radio which operates in 2400-2483.5MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1MHz each; centred from 2402 to 2480MHz) in the range 2,400-2,483.5MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good"

channels, away from the areas of interference, thus having no impact on the bandwidth used. This device was tested with a Bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements for 558074 D01 15.247 Meas Guidance v05r02 and FCC Part 15.247 rule.

4.3 EUT Pseudorandom Frequency Hopping Sequence

Pseudorandom Frequency Hopping Sequence Table as below:

Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45 etc.

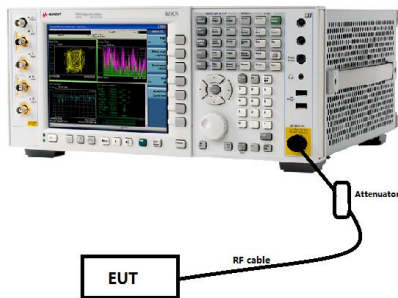
The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

5. Quantity of Hopping Channels and Channel Separation

5.1 Standard Applicable

According to FCC 15.247(a)(1), frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, and frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

5.2 Test Setup Block Diagram



5.3 Test Procedure

According to KDB 558074 D01 v05r02 Sub clause 9 and ANSI C63.10-2013 section 7.8.3, the number of hopping frequencies test method as follows.

- a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c) VBW $\geq$ RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize.

According to DA 00-705 Section 15.247(a), the EUT shall have its hopping function enabled, the Carrier frequency separation test method as follows:

Span = wide enough to capture the peaks of two adjacent channels

Resolution (or IF) Bandwidth (RBW) $\geq$ 1% of the span

Video (or Average) Bandwidth (VBW) $\geq$ RBW

Sweep = auto

Detector function = peak

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Reference No.: WTX24X08191416W003

Trace = max hold

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section. Submit this plot.

5.4 Summary of Test Results/Plots

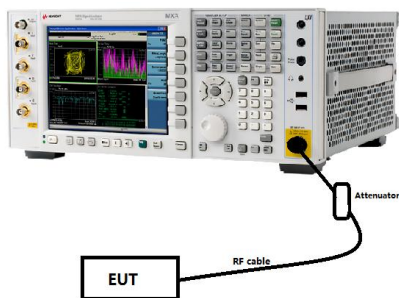
Please refer to Appendix A

6. Dwell Time of Hopping Channel

6.1 Standard Applicable

According to 15.247(a)(1)(iii), frequency hopping systems in the 2400–2483.5MHz band shall use at least 15 channels. 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.

6.2 Test Setup Block Diagram



6.3 Test Procedure

According to KDB 558074 D01 v05r02 Sub clause 9 and ANSI C63.10-2013 section 7.8.4, the dwell time of a hopping channel test method as follows.

- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1/T$, where T is the expected dwell time per channel.
- c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- d) Detector function: Peak.
- e) Trace: Max hold.

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

$$(\text{Number of hops in the period specified in the requirements}) = (\text{number of hops on spectrum analyzer}) \times (\text{period specified in the requirements} / \text{analyzer sweep time})$$

Reference No.: WTX24X08191416W003

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

6.4 Summary of Test Results/Plots

The dwell time within a period in data mode is independent from the packet type (packet length).

The test period: $T = 0.4 \text{ Second} * 79 \text{ Channel} = 31.6 \text{ s}$

Dwell time = time slot length * (Hopping rate / Number of hopping channels) * Period

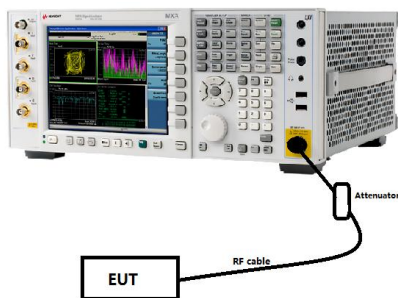
Please refer to Appendix B

7. 20dB Bandwidth

7.1 Standard Applicable

According to 15.247(a) and 15.215(c), 20dB bandwidth is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

7.2 Test Setup Block Diagram



7.3 Test Procedure

According to KDB 558074 D01 v05r02 Sub clause 9 and ANSI C63.10-2013 section 6.9.2, the 20dB bandwidth test method as follows.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level.
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30dB below the reference value.
- f) Set detection mode to peak and trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - \text{xx}]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to

stabilize. Otherwise, the trace from step g) shall be used for step j).

j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

7.4 Summary of Test Results/Plots

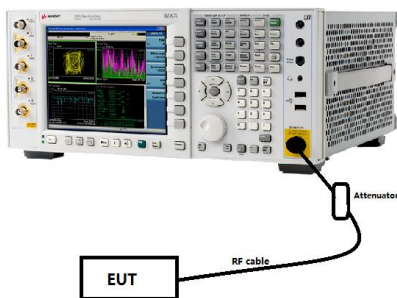
Please refer to Appendix C

8. RF Output Power

8.1 Standard Applicable

According to 15.247(b)(1), for frequency hopping systems operating in the 2400–2483.5MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5MHz band: 0.125 watts.

8.2 Test Setup Block Diagram



8.3 Test Procedure

According to KDB 558074 D01 v05r02 Subclause 9 and ANSI C63.10-2013 section 7.8.5, the output power test method as follows.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

a) Use the following spectrum analyzer settings:

- 1) Span: Approximately five times the 20dB bandwidth, centered on a hopping channel.
- 2) RBW > 20dB bandwidth of the emission being measured.
- 3) VBW $\geq$ RBW.
- 4) Sweep: Auto.
- 5) Detector function: Peak.
- 6) Trace: Max hold.

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power, after any corrections for external attenuators and cables.

e) A plot of the test results and setup description shall be included in the test report.

8.4 Summary of Test Results/Plots

Please refer to Appendix D

9. Field Strength of Spurious Emissions

9.1 Standard Applicable

According to §15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

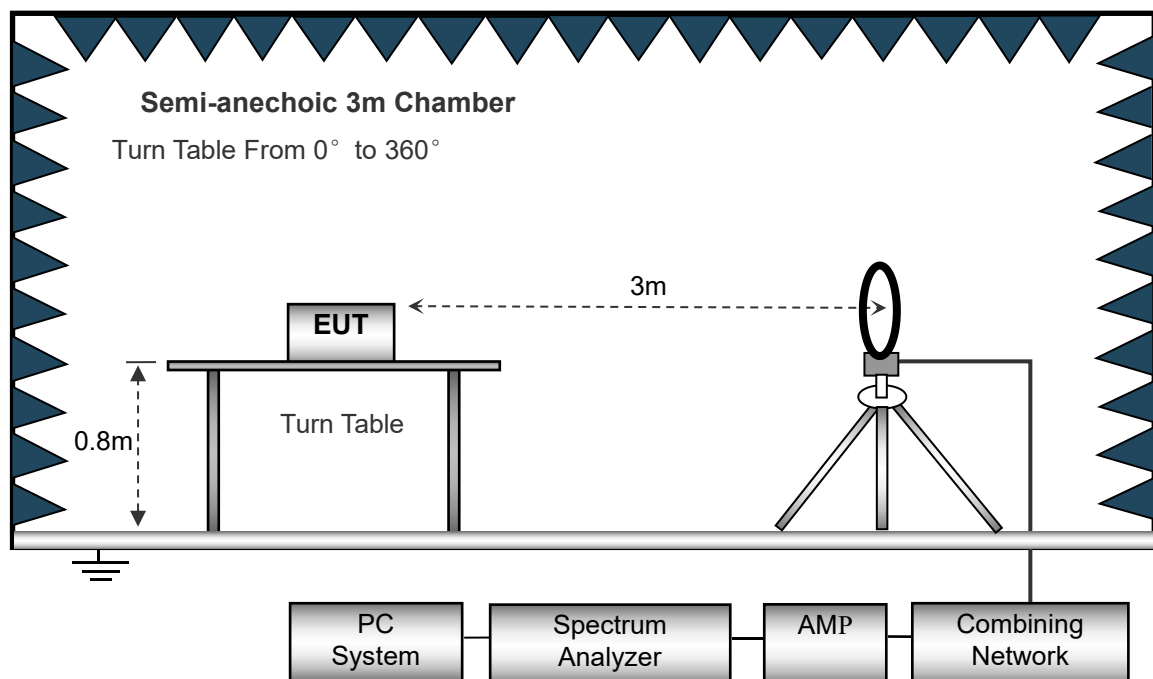
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

9.2 Test Procedure

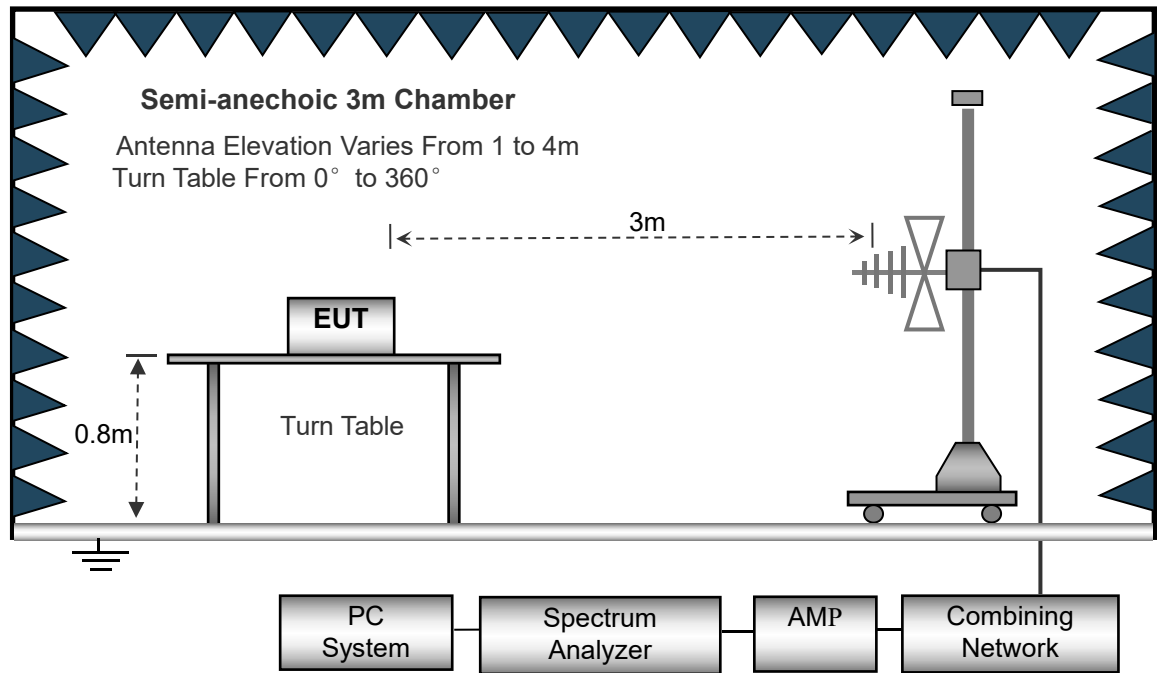
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

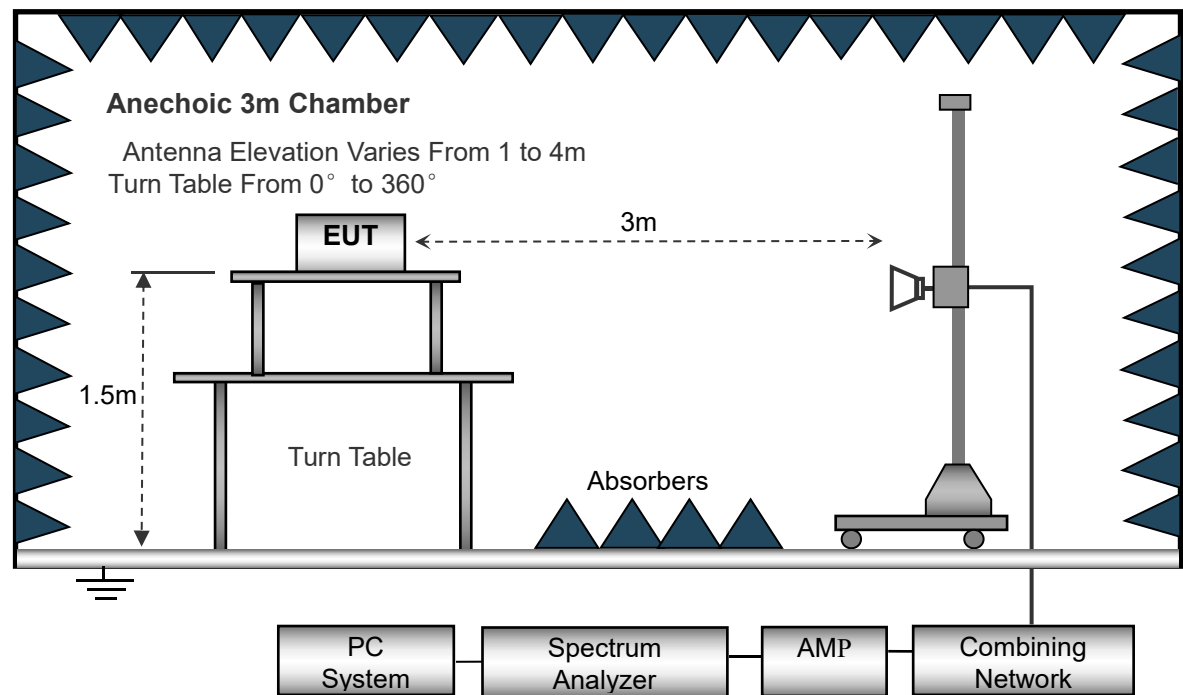
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1GHz.



Frequency :9kHz-30MHz	Frequency :30MHz-1GHz	Frequency :Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	Trace = max hold
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

9.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\begin{aligned}\text{Corr. Ampl.} &= \text{Indicated Reading} + \text{Correct} \\ \text{Correct} &= \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}\end{aligned}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

9.4 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.
All test modes (different data rate and different modulation) are performed, but only the worst case (GFSK) is recorded in this report.

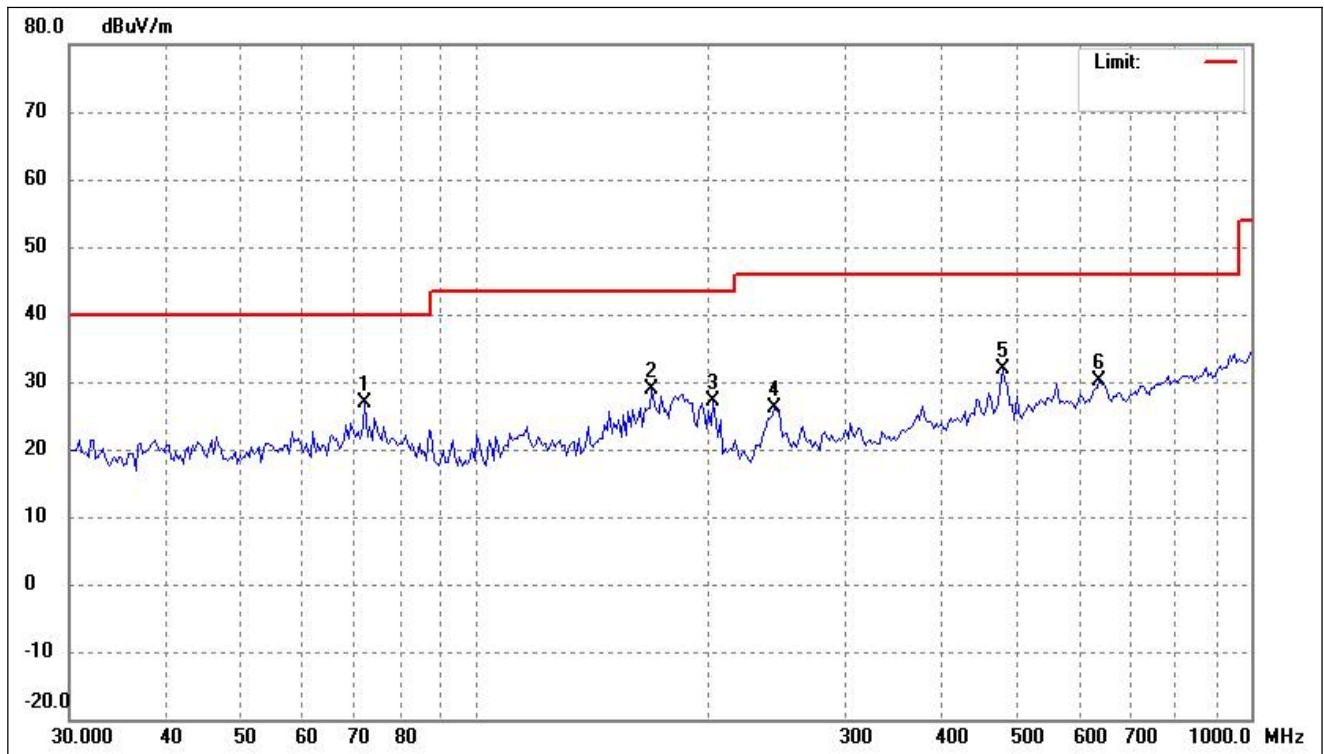
➤ Spurious Emissions Below 1GHz

Test Channel	Low(worst case)	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	58.0759	34.41	-8.32	26.09	40.00	-13.91	-	-	peak
2	168.9970	45.65	-8.29	37.36	43.50	-6.14	-	-	peak
3	187.7833	45.87	-10.59	35.28	43.50	-8.22	-	-	peak
4	243.5431	52.36	-9.90	42.46	46.00	-3.54	-	-	peak
5	723.7930	36.97	-0.49	36.48	46.00	-9.52	-	-	peak
6	958.7135	32.86	3.34	36.20	46.00	-9.80	-	-	peak

Test Channel	Low(worst case)	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	72.2111	37.63	-10.74	26.89	40.00	-13.11	-	-	peak
2	168.9970	37.10	-8.29	28.81	43.50	-14.69	-	-	peak
3	202.8745	38.46	-11.44	27.02	43.50	-16.48	-	-	peak
4	243.5431	36.12	-9.90	26.22	46.00	-19.78	-	-	peak
5	478.1394	36.85	-4.97	31.88	46.00	-14.12	-	-	peak
6	637.7947	31.83	-1.67	30.16	46.00	-15.84	-	-	peak

Remark: '-' Means' the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

➤ Spurious Emissions Above 1GHz

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2402MHz							
4795.868	59.57	-13.51	46.06	74.00	-27.94	H	PK
7206.000	54.23	-7.36	46.87	74.00	-27.13	H	PK
4804.000	55.58	-13.51	42.07	74.00	-31.93	V	PK
7198.184	57.43	-7.33	50.10	74.00	-23.90	V	PK
Middle Channel-2441MHz							
4920.723	57.38	-13.37	44.01	74.00	-29.99	H	PK
7323.000	52.60	-7.72	44.88	74.00	-29.12	H	PK
4895.495	57.21	-13.40	43.81	74.00	-30.19	V	PK
7323.000	53.41	-7.72	45.69	74.00	-28.31	V	PK
High Channel-2480MHz							
4960.000	56.47	-13.32	43.15	74.00	-30.85	H	PK
7440.000	54.10	-8.08	46.02	74.00	-27.98	H	PK
4960.000	55.80	-13.32	42.48	74.00	-31.52	V	PK
7440.000	57.89	-8.08	49.81	74.00	-24.19	V	PK

Note: 1. Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

2. Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

10. Out of Band Emissions

10.1 Standard Applicable

According to §15.247 (d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.2 Test Procedure

According to ANSI C63.10-2013 section 7.8.6, the Band-edge measurements for RF conducted emissions test method as follows.

- a) Connect the EMI receiver or spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described in step e) (be sure to enter all losses between the unlicensed wireless device output and the spectrum analyzer).
- b) Set the EUT to the lowest frequency channel (for the hopping on test, the hopping sequence shall include the lowest frequency channel).
- c) Set the EUT to operate at maximum output power and 100% duty cycle, or equivalent “normal mode of operation” as specified in 6.10.3.
- d) If using the radiated method, then use the applicable procedure(s) of 6.4, 6.5, or 6.6, and orient the EUT and measurement antenna positions to produce the highest emission level.
- e) Perform the test as follows:
 - 1) Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
 - 2) Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
 - 3) Attenuation: Auto (at least 10dB preferred).
 - 4) Sweep time: Coupled.
 - 5) Resolution bandwidth: 100kHz.
 - 6) Video bandwidth: 300kHz.
 - 7) Detector: Peak.
 - 8) Trace: Max hold.
- f) Allow the trace to stabilize. For the test with the hopping function turned ON, this can take several minutes

to achieve a reasonable probability of intercepting any emissions due to oscillator overshoot.

g) Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission.

h) Repeat step c) through step e) for every applicable modulation.

i) Set the EUT to the highest frequency channel (for the hopping on test, the hopping sequence shall include the highest frequency channel) and repeat step c) through step d).

j) The band-edge measurement shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Restricted-band band-edge test method please refers to ANSI C63.10-2013 section 6.10.5. The emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated band-edge measurements.

According to ANSI C63.10-2013 section 7.8.8, Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers.

Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.

10.3 Summary of Test Results/Plots

Note: All test modes (different data rate and different modulation) are performed, but only the worst case (GFSK) is recorded in this report.

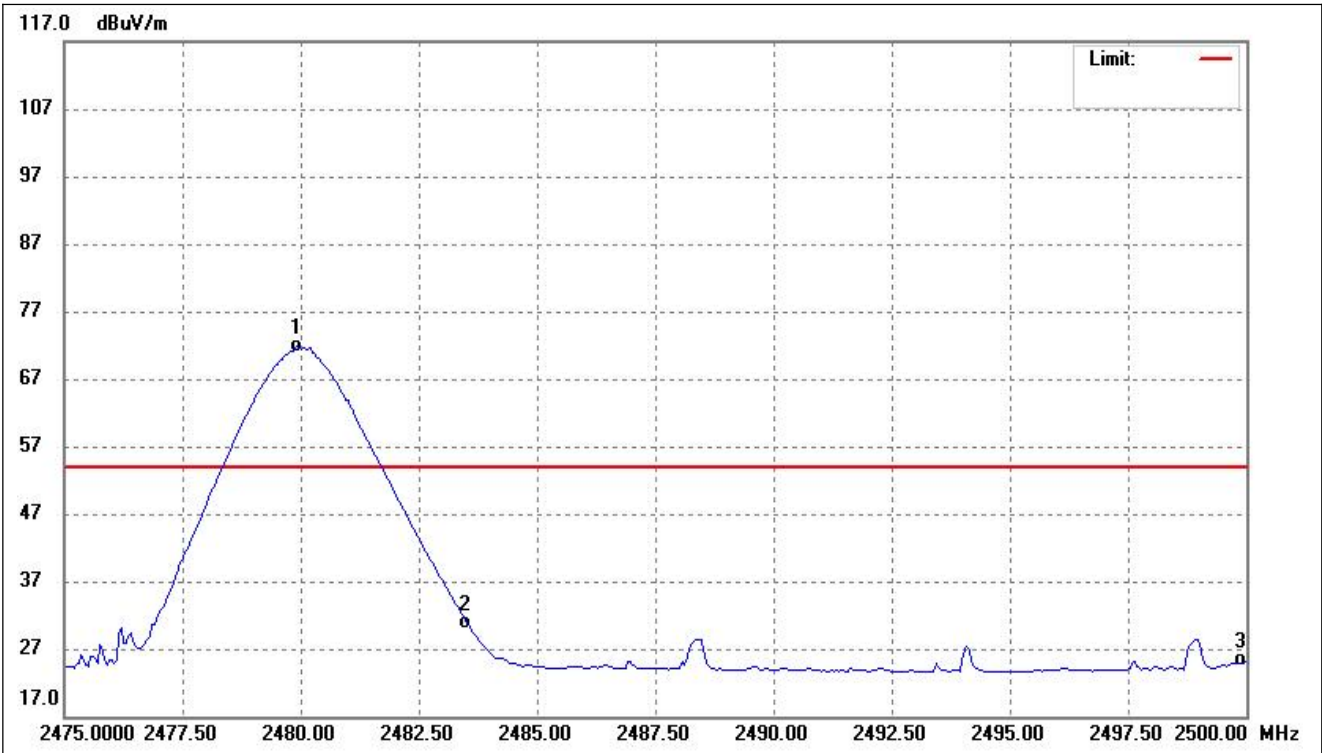
➤ Radiated test

Test Channel	Low	Polarity:	Horizontal (worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.38	-19.67	23.71	54.00	-30.29	Average Detector
	2310.000	58.87	-19.67	39.20	74.00	-34.80	Peak Detector
2	2390.000	45.75	-19.49	26.26	54.00	-27.74	Average Detector
	2390.000	56.57	-19.49	37.08	74.00	-36.92	Peak Detector
3	2402.184	90.70	-19.48	71.22	/	/	Average Detector
	2402.184	104.02	-19.48	84.54	/	/	Peak Detector

Test Channel	High	Polarity:	Horizontal (worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2479.910	91.15	-19.29	71.86	/	/	Average Detector
	2480.060	103.93	-19.29	84.64	/	/	Peak Detector
2	2483.500	50.17	-19.29	30.88	54.00	-23.12	Average Detector
	2483.500	61.57	-19.29	42.28	74.00	-31.72	Peak Detector
3	2500.000	44.64	-19.25	25.39	54.00	-28.61	Average Detector
	2500.000	57.99	-19.25	38.74	74.00	-35.26	Peak Detector

Note: Average measurement was not performed if peak level is lower than average limit(54dBuV/m) for above 1GHz.

➤ Conducted test
Please refer to Appendix E

11. Conducted Emissions

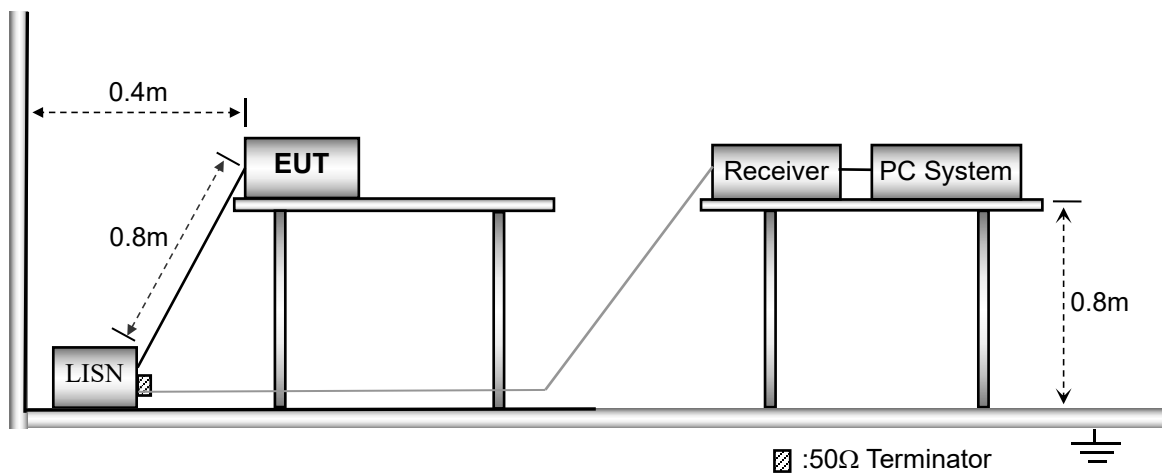
11.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

11.2 Basic Test Setup Block Diagram

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.



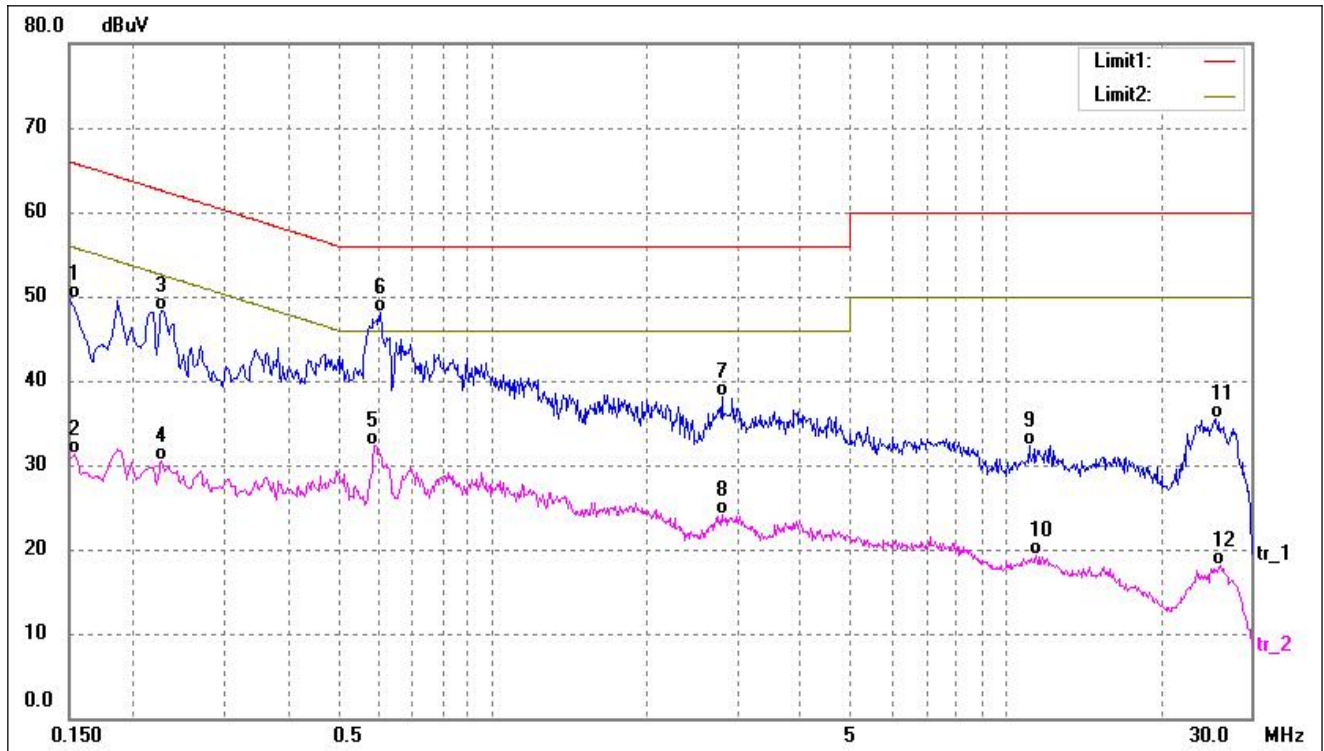
11.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency.....	150kHz
Stop Frequency.....	30MHz
Sweep Speed.....	Auto
IF Bandwidth.....	10kHz
Quasi-Peak Adapter Bandwidth.....	9kHz
Quasi-Peak Adapter Mode.....	Normal

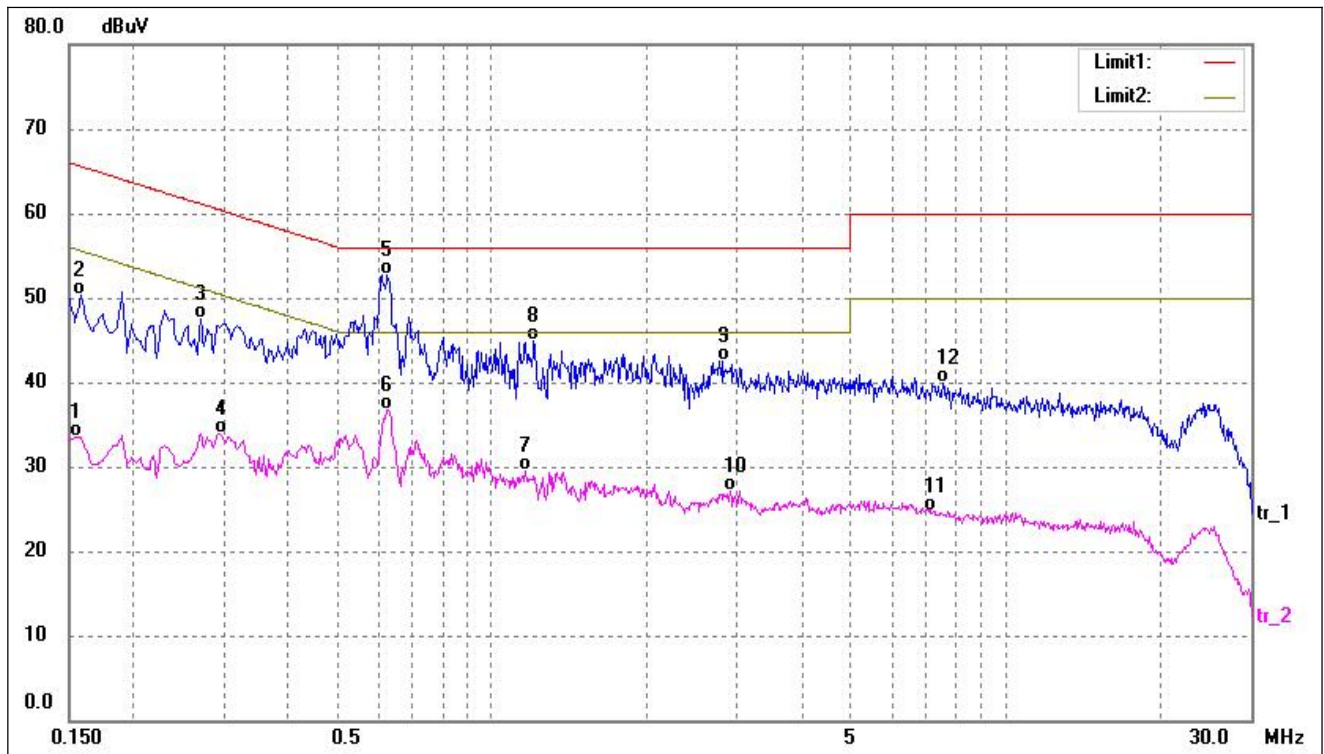
11.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	39.95	9.76	49.71	65.99	-16.28	QP
2	0.1539	21.59	9.75	31.34	55.78	-24.44	AVG
3	0.2260	38.70	9.59	48.29	62.59	-14.30	QP
4	0.2260	20.84	9.59	30.43	52.59	-22.16	AVG
5	0.5899	22.62	9.72	32.34	46.00	-13.66	AVG
6*	0.6060	38.38	9.71	48.09	56.00	-7.91	QP
7	2.8020	28.40	9.62	38.02	56.00	-17.98	QP
8	2.8020	14.42	9.62	24.04	46.00	-21.96	AVG
9	11.1180	22.46	9.89	32.35	60.00	-27.65	QP
10	11.4860	9.36	9.89	19.25	50.00	-30.75	AVG
11	25.6940	25.36	10.06	35.42	60.00	-24.58	QP
12	26.1820	8.02	10.05	18.07	50.00	-31.93	AVG

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	23.73	9.75	33.48	55.78	-22.30	AVG
2	0.1580	40.50	9.73	50.23	65.56	-15.33	QP
3	0.2700	37.82	9.62	47.44	61.12	-13.68	QP
4	0.2940	24.34	9.64	33.98	50.41	-16.43	AVG
5*	0.6260	43.03	9.70	52.73	56.00	-3.27	QP
6	0.6260	27.10	9.70	36.80	46.00	-9.20	AVG
7	1.1620	19.79	9.66	29.45	46.00	-16.55	AVG
8	1.2059	35.17	9.66	44.83	56.00	-11.17	QP
9	2.8020	32.97	9.62	42.59	56.00	-13.41	QP
10	2.9140	17.49	9.62	27.11	46.00	-18.89	AVG
11	7.2220	14.99	9.79	24.78	50.00	-25.22	AVG
12	7.5500	30.12	9.80	39.92	60.00	-20.08	QP

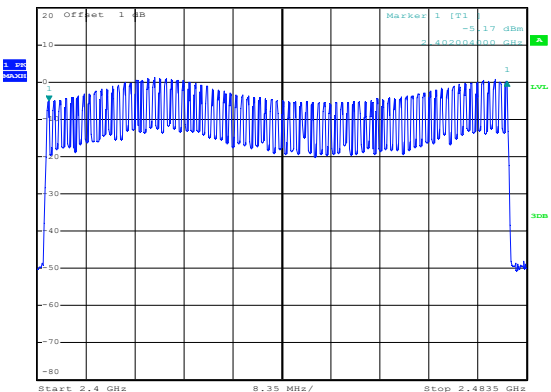
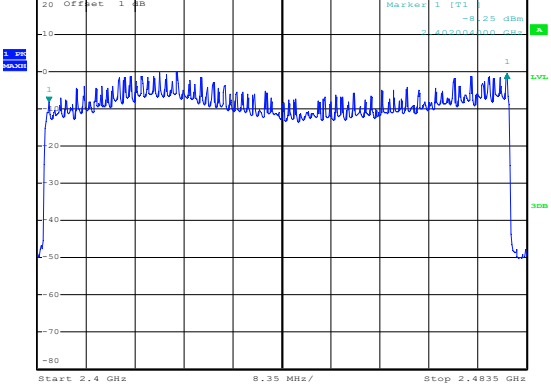
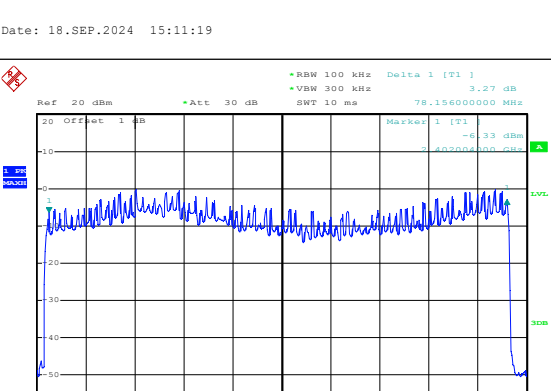
APPENDIX SUMMARY

Project No.	WTX24X08191416W	Test Engineer	Timi Huang
Start date	2024/9/18	Finish date	2024/9/18
Temperature	24℃	Humidity	62%
RF specifications	BT-BR/EDR		

APPENDIX	Description of Test Item	Result
A	Hopping Channels and Channel Separation	Compliant
B	Dwell Time of Hopping Channel	Compliant
C	20dB Bandwidth	Compliant
D	RF Output Power	Compliant
E	Conducted Out of Band Emissions	Compliant

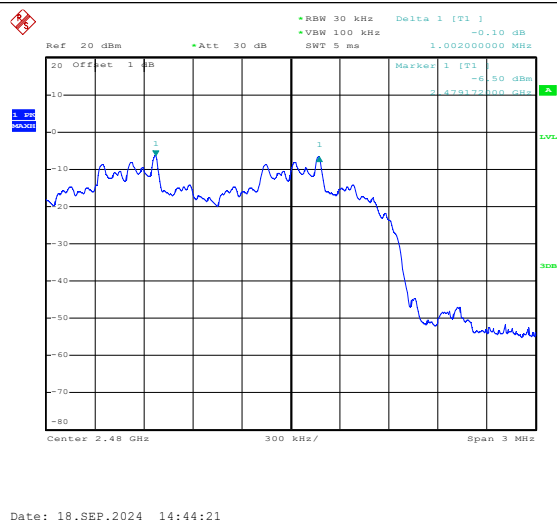
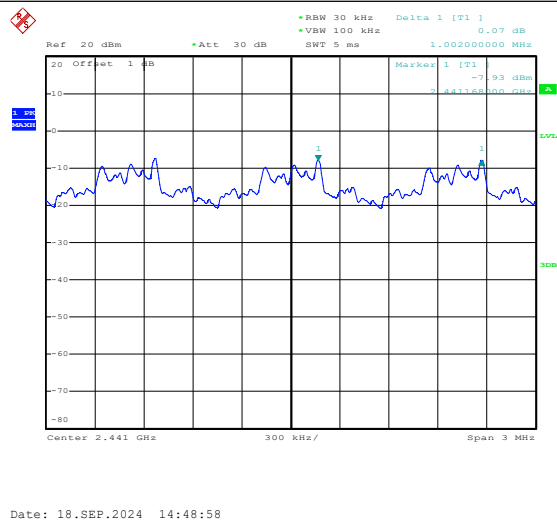
APPENDIX A

Hopping Channels Number			
Mode	Test Result	Limit	Result
GFSK	79	≥15	Pass
π/4 DQPSK	79	≥15	Pass
8DPSK	79	≥15	Pass

Modulation	Power Spectral Density Plot (dBm/Hz)	Frequency Range (GHz)	Bandwidth (MHz)	Reference Power (dBm)	Attenuation (dB)	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Marker 1 (T1) (dBm)	Marker 2 (T2) (dBm)	Marker 3 (T3) (dBm)	Date
GFSK		2.4 to 2.4835	8.35	20	30	100	300	-5.17	-8.25	-10.00	18.SEP.2024 15:14:31
$\pi/4$ DQPSK		2.4 to 2.4835	8.35	20	30	100	300	-8.25	-10.00	-11.00	18.SEP.2024 15:11:19
8DPSK		2.4 to 2.4835	8.35	20	30	100	300	-6.33	-10.00	-11.00	18.SEP.2024 15:09:19

Channel Separation			
Mode	Channel	Carrier Frequencies Separation (kHz)	Result
GFSK	Low	1002	Pass
	Middle	1002	Pass
	High	1008	Pass
8DPSK	Low	1008	Pass
	Middle	1002	Pass
	High	1002	Pass

GFSK-Low	Date: 18.SEP.2024 14:52:47
GFSK-Middle	Date: 18.SEP.2024 14:57:23
GFSK-High	Date: 18.SEP.2024 14:58:22



APPENDIX B

Dwell Time of Hopping Channel					
Modulation	Packet	Test Channel	Time Slot Length	Dwell Time	Limit
			ms	ms	ms
GFSK	DH5	Low	2.888	308.05	≤400
		Middle	2.888	308.05	≤400
		High	2.888	308.05	≤400
π/4 DQPSK	2DH5	Low	2.888	308.05	≤400
		Middle	2.888	308.05	≤400
		High	2.888	308.05	≤400
8DPSK	3DH5	Low	2.880	307.20	≤400
		Middle	2.880	307.20	≤400
		High	2.880	307.20	≤400

Note: The test period: $T = 0.4 \text{ Second} \times 79 \text{ Channel} = 31.6 \text{ s}$

Dwell time = time slot length * (Hopping rate / Number of hopping channels) * Period

Dwell time = Pulse time (ms) × (1600 ÷ 2 ÷ 79) × 31.6 Second for DH1, 2-DH1, 3-DH1

Dwell time = Pulse time (ms) × (1600 ÷ 4 ÷ 79) × 31.6 Second for DH3, 2-DH3, 3-DH3

Dwell time = Pulse time (ms) × (1600 ÷ 6 ÷ 79) × 31.6 Second for DH5, 2-DH5, 3-DH5

Figure 10: Power Spectral Density (PSD) plots for the DH5 signal at three different frequency offsets: Low, Middle, and High. Each plot shows the PSD (dBm/Hz) versus Frequency (GHz). The plots are generated using a 1 MHz RBW, 3 MHz VBW, and 4 ms SWT. The reference level is 20 dBm, and the attenuation is 30 dB. The plots show a clear signal peak at the center frequency, with a noise floor around -15.6 dBm. The signal level is approximately -4.91 dBm for the Low offset, -4.71 dBm for the Middle offset, and -4.42 dBm for the High offset. The plots are labeled "DH5-Low", "DH5-Middle", and "DH5-High".

Figure 10 displays three Power Spectral Density (PSD) plots for the DH5 signal, showing the signal level (dBm) versus Frequency (GHz). The plots are labeled "DH5-Low", "DH5-Middle", and "DH5-High".

Each plot shows a signal level (dBm) versus Frequency (GHz). The signal level is approximately -4.91 dBm for the Low offset, -4.71 dBm for the Middle offset, and -4.42 dBm for the High offset. The plots are labeled "DH5-Low", "DH5-Middle", and "DH5-High".

The plots show a signal level (dBm) versus Frequency (GHz). The signal level is approximately -4.91 dBm for the Low offset, -4.71 dBm for the Middle offset, and -4.42 dBm for the High offset. The plots are labeled "DH5-Low", "DH5-Middle", and "DH5-High".

[illegible]

[illegible]

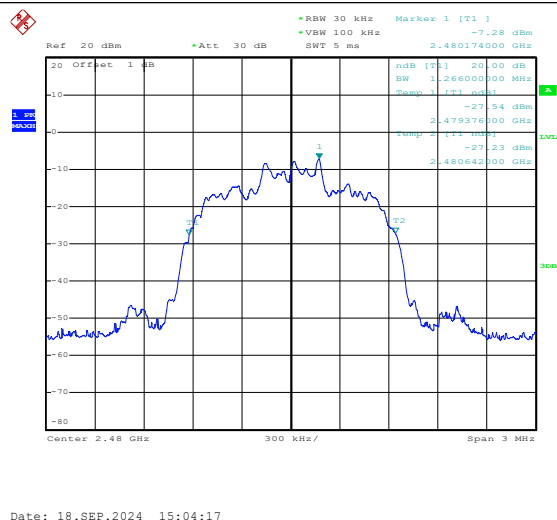
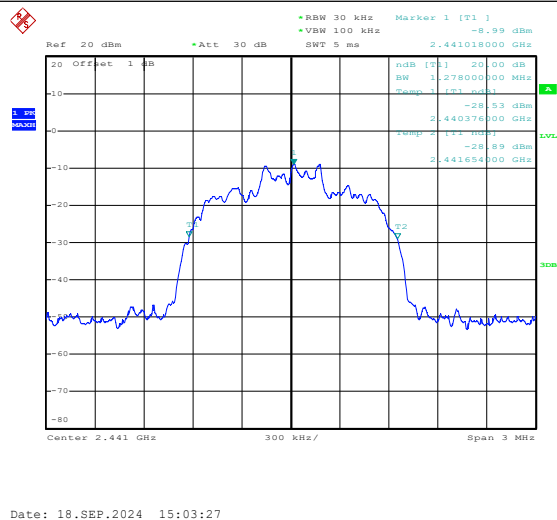
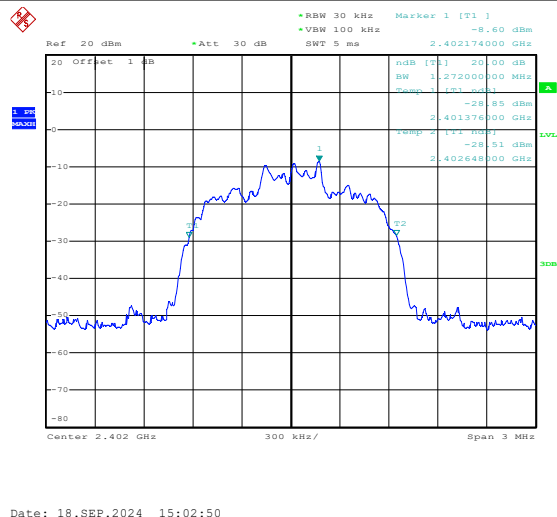
APPENDIX C

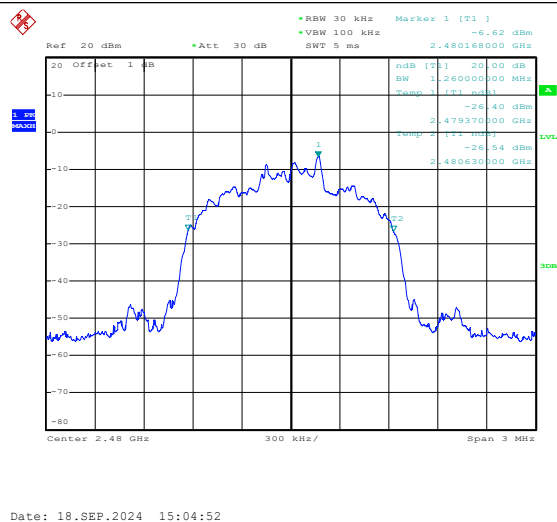
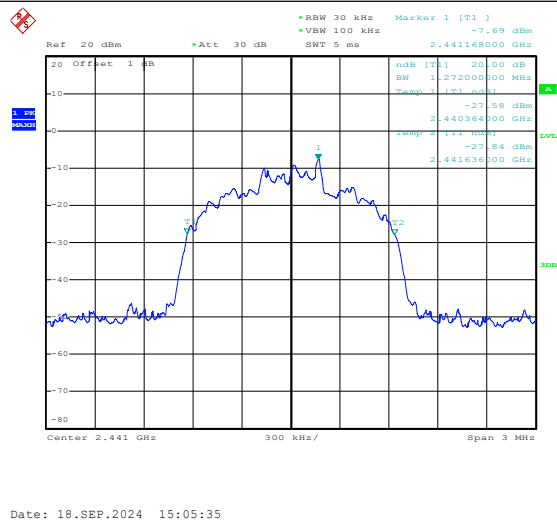
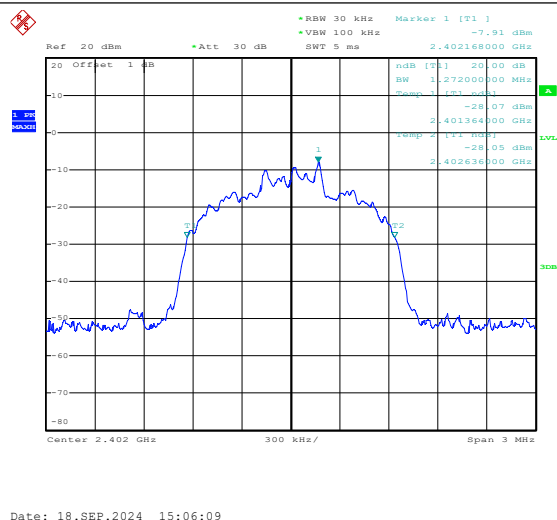
20 dB Bandwidth			
Test Mode	Test Channel MHz	20 dB Bandwidth MHz	Result
GFSK	2402	0.804	Pass
	2441	0.804	Pass
	2480	0.804	Pass
$\pi/4$ DQPSK	2402	1.272	Pass
	2441	1.278	Pass
	2480	1.266	Pass
8DPSK	2402	1.272	Pass
	2441	1.272	Pass
	2480	1.260	Pass

Figure 10 shows three plots of the measured power spectrum for the GFSK signal, corresponding to the three different frequency offsets (Low, Middle, and High) used in the experiment. Each plot displays the power spectrum (dBm) versus frequency (GHz) for a 3 MHz span centered at 2.4 GHz. The plots show the GFSK signal spectrum, which is a bandpass signal centered around 2.4 GHz. The power spectrum is measured with a resolution bandwidth (RBW) of 10 kHz and a video bandwidth (VBW) of 30 kHz. The power level is set to 20 dBm, and the attenuation is 30 dB. The plots show the power spectrum for the three different frequency offsets: Low (2.402 GHz), Middle (2.441 GHz), and High (2.48 GHz). The power spectrum is measured with a resolution bandwidth (RBW) of 10 kHz and a video bandwidth (VBW) of 30 kHz. The power level is set to 20 dBm, and the attenuation is 30 dB. The plots show the power spectrum for the three different frequency offsets: Low (2.402 GHz), Middle (2.441 GHz), and High (2.48 GHz).

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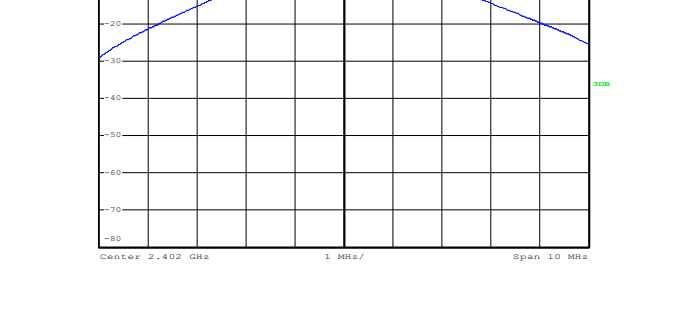


APPENDIX D

RF Output Power				
Modulation type	Channel	Output power (dBm)	Limit (dBm)	Result
GFSK	Low	-4.30	30.00	Pass
	Middle	-4.97		
	High	-3.54		
$\pi/4$ DQPSK	Low	-5.42	20.97	Pass
	Middle	-5.09		
	High	-3.84		
8DPSK	Low	-5.39	20.97	Pass
	Middle	-5.09		
	High	-3.90		

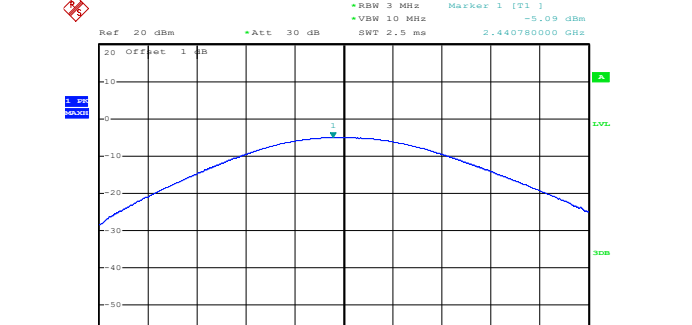
Modulation	Frequency (GHz)	Power (dBm)	Bandwidth (MHz)	SWT (ms)	Marker 1 [T1] (dBm)	Date	Time
GFSK-Low	2.402	-4.30	3	2.5	-4.30	18.SEP.2024	13:44:58
GFSK-Middle	2.441	-4.97	3	2.5	-4.97	18.SEP.2024	13:47:42
GFSK-High	2.48	-3.54	3	2.5	-3.54	18.SEP.2024	14:36:28

$\pi/4$ DQPSK-Low



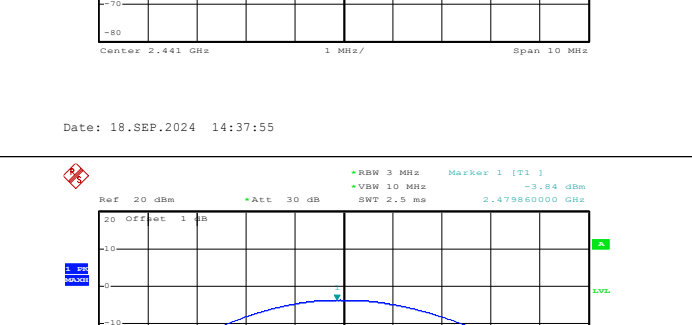
Ref: 20 dBm, Att: 30 dB, RBW: 3 MHz, VBW: 10 MHz, Span: 10 MHz, Center: 2.402 GHz, Marker 1 [T1]: -5.42 dBm, SWT: 2.5 ms, 2.401860000 GHz

$\pi/4$ DQPSK-Middle



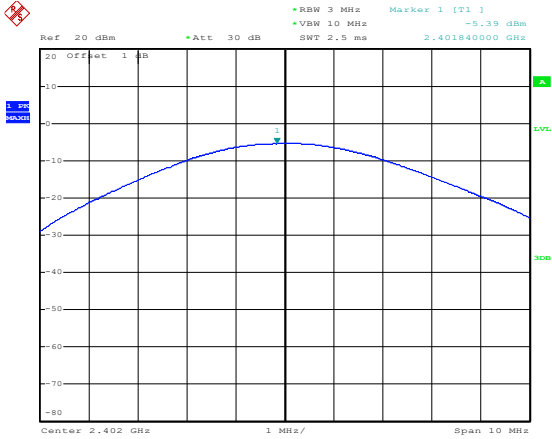
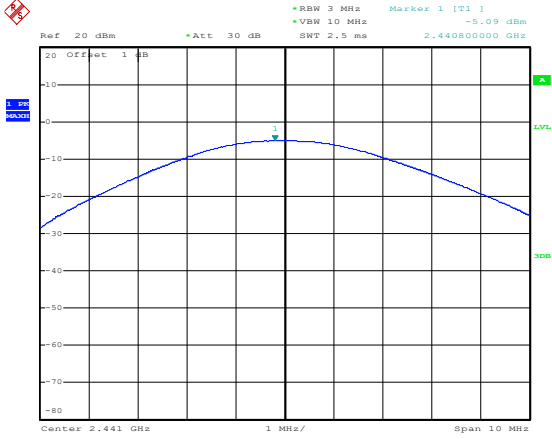
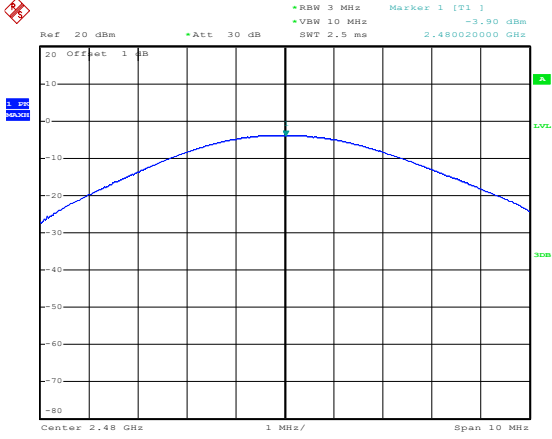
Ref: 20 dBm, Att: 30 dB, RBW: 3 MHz, VBW: 10 MHz, Span: 10 MHz, Center: 2.441 GHz, Marker 1 [T1]: -5.09 dBm, SWT: 2.5 ms, 2.440780000 GHz

$\pi/4$ DQPSK-High



Ref: 20 dBm, Att: 30 dB, RBW: 3 MHz, VBW: 10 MHz, Span: 10 MHz, Center: 2.48 GHz, Marker 1 [T1]: -3.84 dBm, SWT: 2.5 ms, 2.479860000 GHz

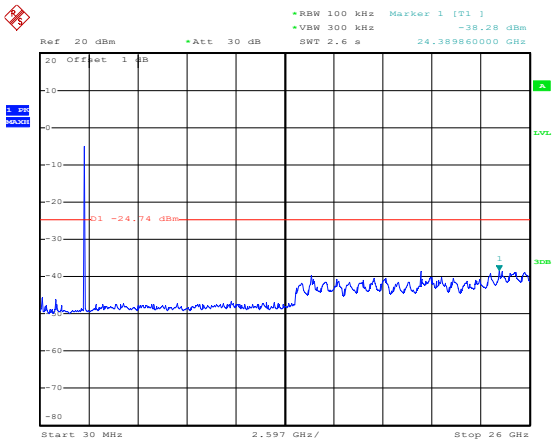
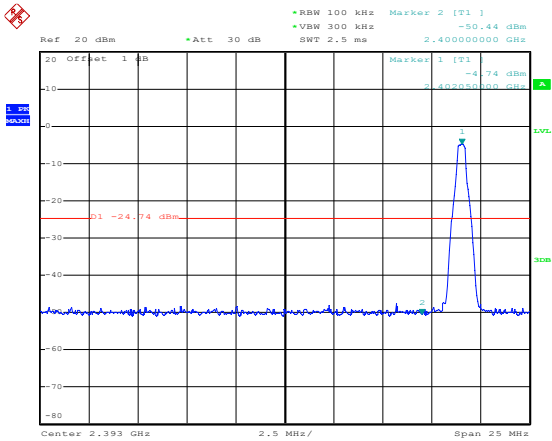
The figure displays three spectral plots for $\pi/4$ DQPSK signals at different carrier frequencies. Each plot shows a bell-shaped spectrum centered at the respective frequency. The y-axis represents power in dBm, ranging from -80 to 20. The x-axis represents frequency in GHz, with a span of 10 MHz. The plots are labeled 'Low', 'Middle', and 'High' based on their center frequencies. Each plot includes a marker indicating the peak power level.

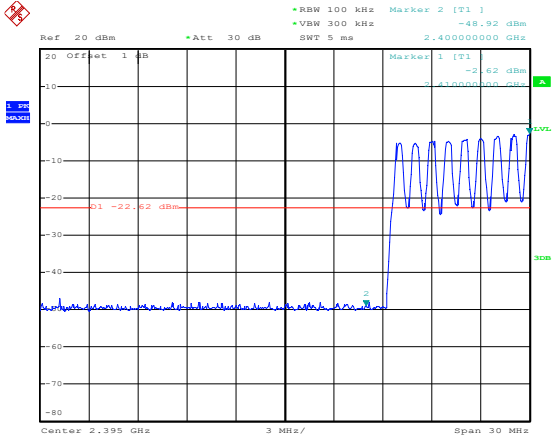
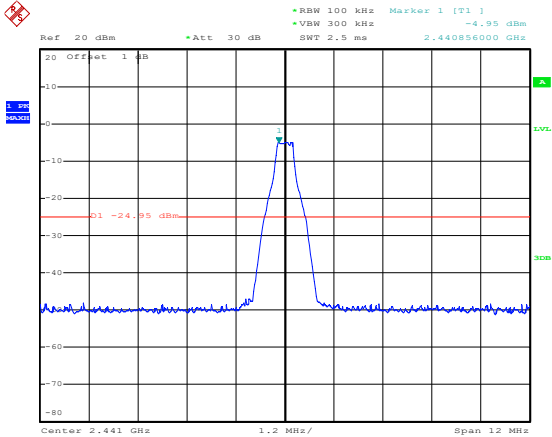
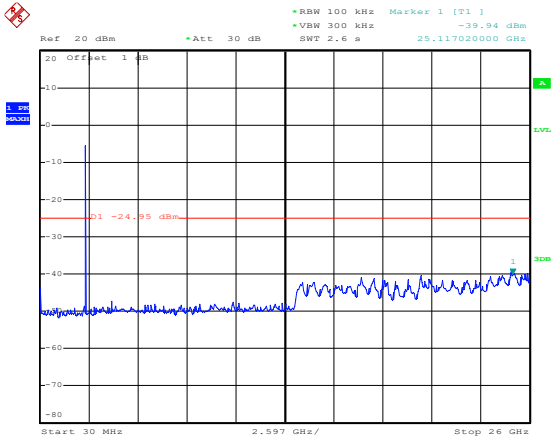
8DPSK-Low	 Date: 18.SEP.2024 14:38:52
8DPSK-Middle	 Date: 18.SEP.2024 14:39:06
8DPSK-High	 Date: 18.SEP.2024 14:39:28

APPENDIX E

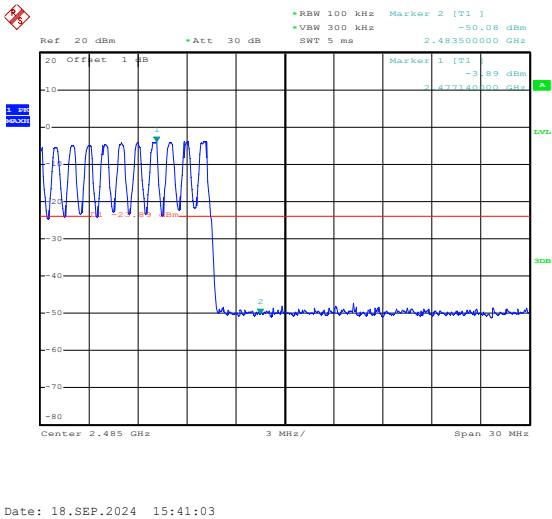
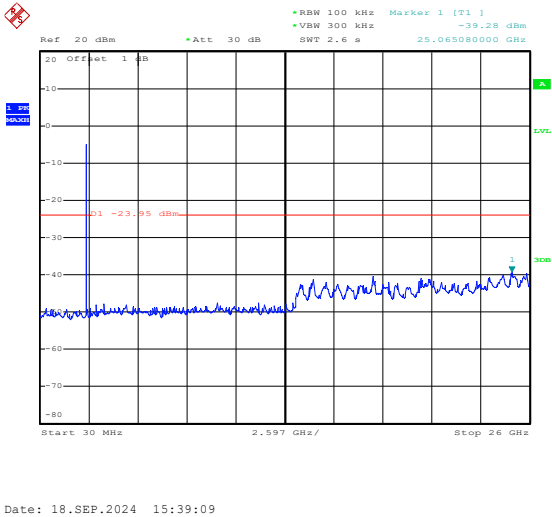
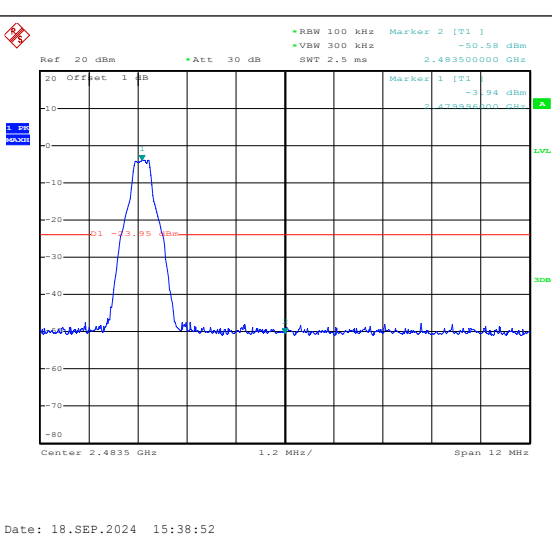
Conducted Out of Band Emissions

1Mbps Low

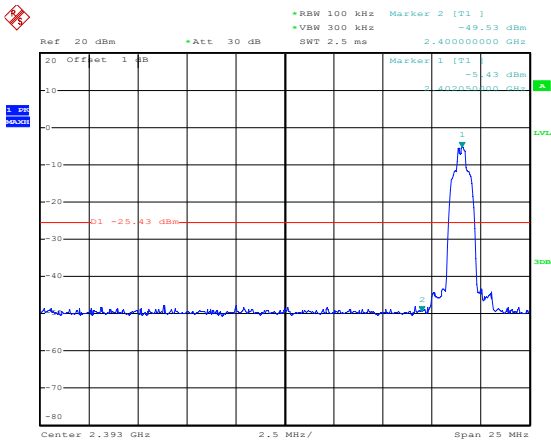


	 Date: 18.SEP.2024 15:34:56
1Mbps Middle	 Date: 18.SEP.2024 15:36:40
	 Date: 18.SEP.2024 15:36:58

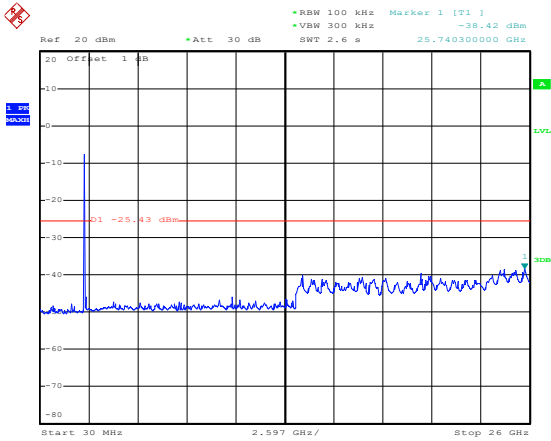
1Mbps High



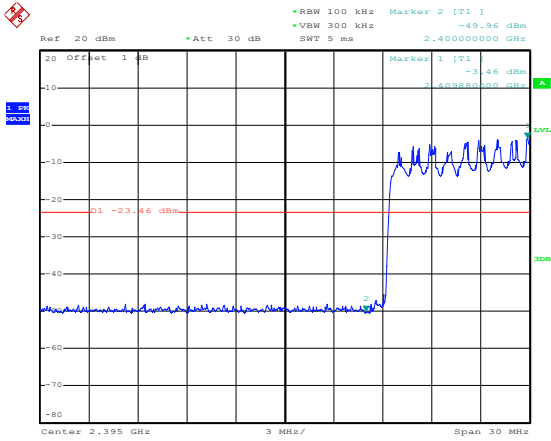
2Mbps Low



Date: 18.SEP.2024 15:45:17

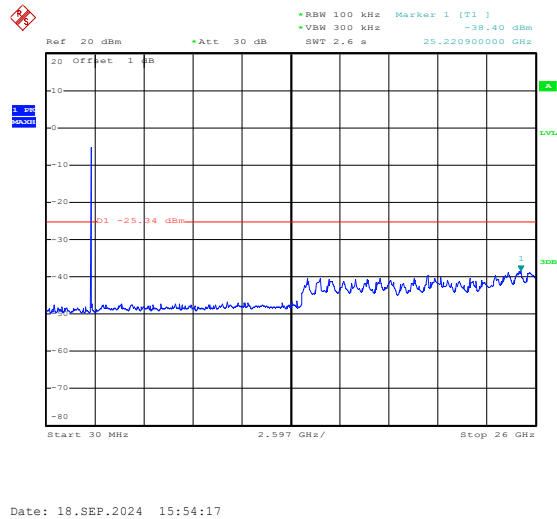
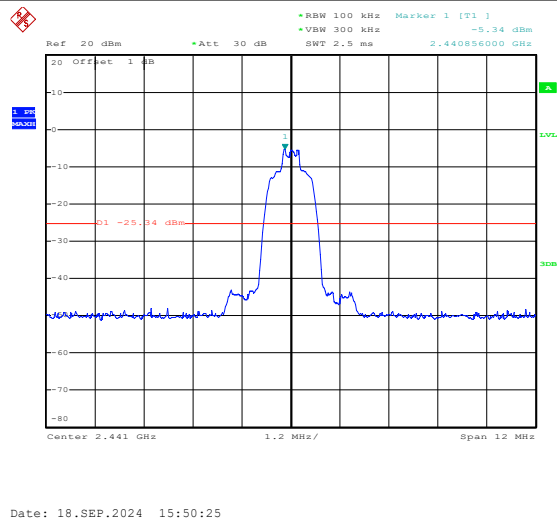


Date: 18.SEP.2024 15:46:24

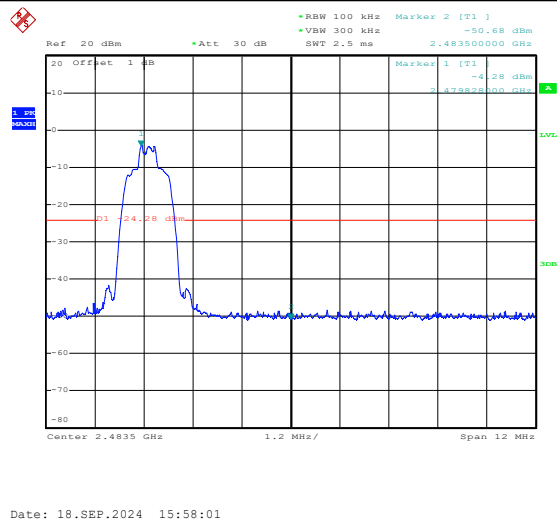


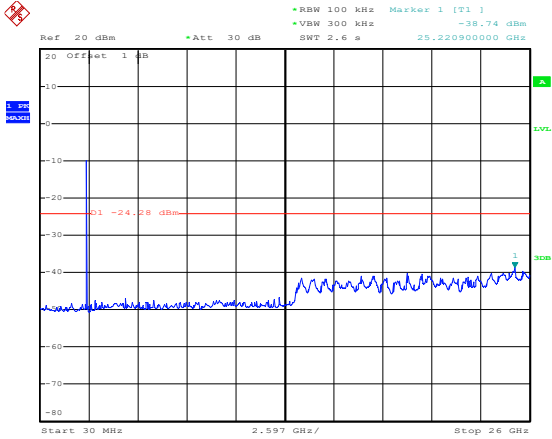
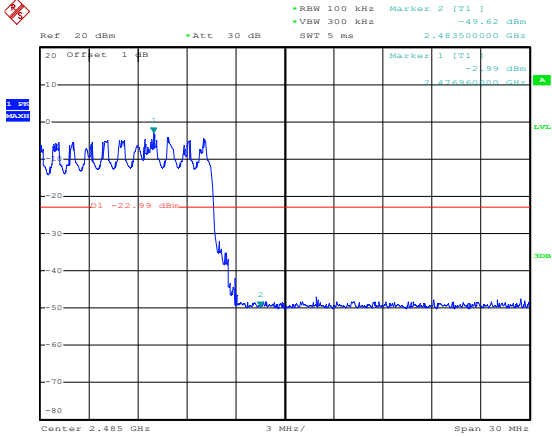
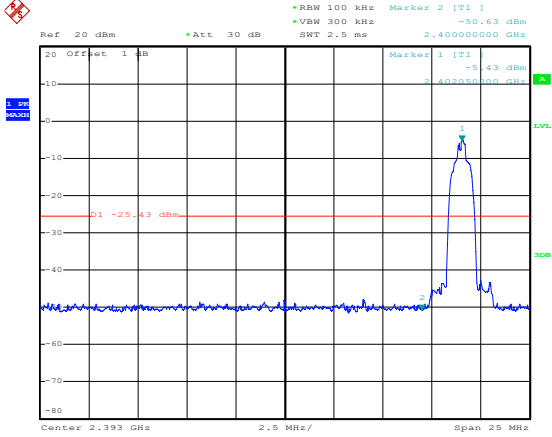
Date: 18.SEP.2024 15:49:02

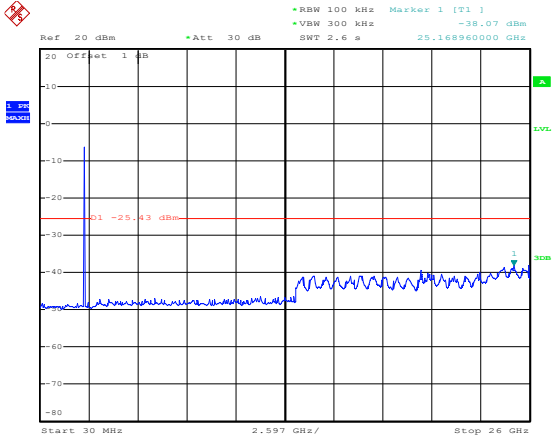
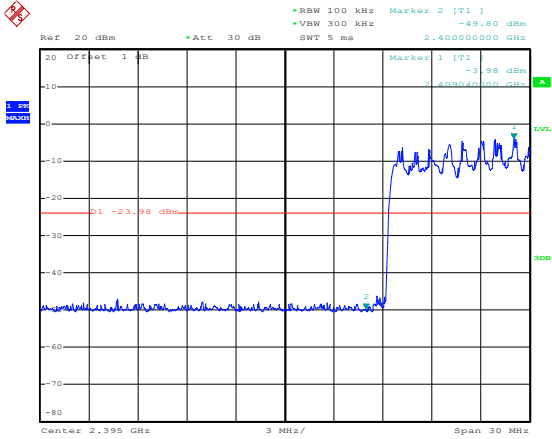
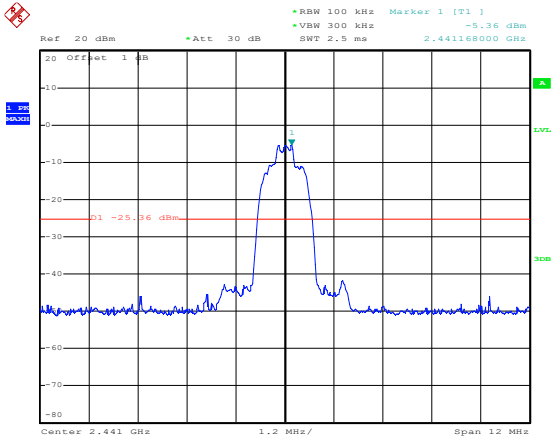
2Mbps Middle



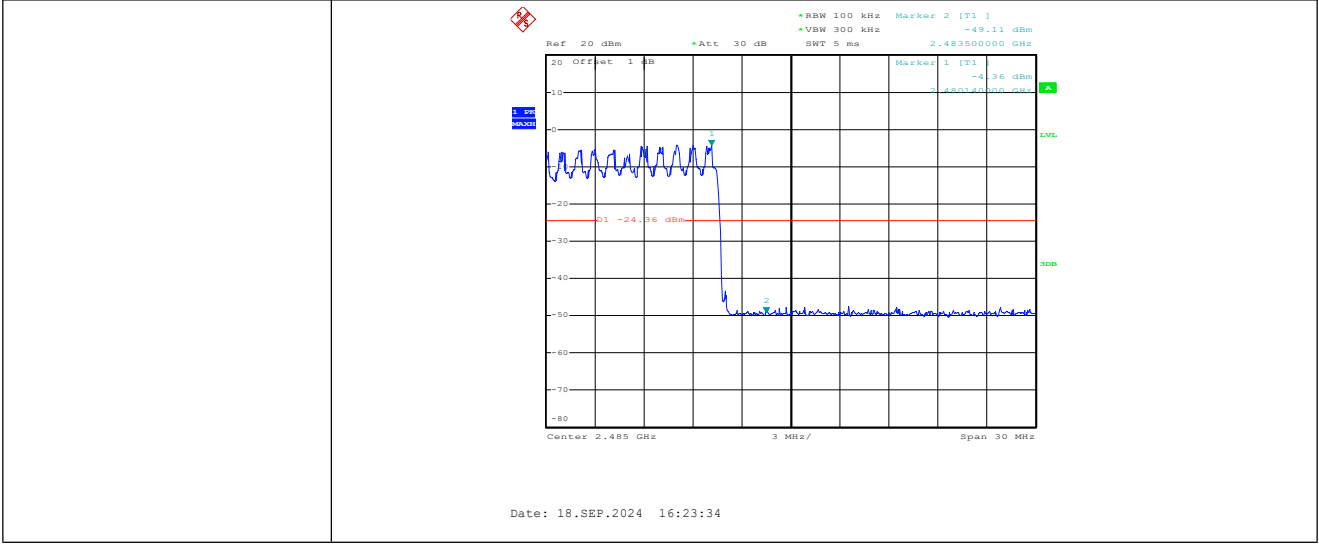
2Mbps High



	 Date: 18.SEP.2024 15:58:55
	 Date: 18.SEP.2024 16:04:24
3Mbps Low	 Date: 18.SEP.2024 16:06:02

	 Date: 18.SEP.2024 16:10:06
	 Date: 18.SEP.2024 16:12:22
3Mbps Middle	 Date: 18.SEP.2024 16:13:47

	Date: 18.SEP.2024 16:16:00
3Mbps High	Date: 18.SEP.2024 16:17:11
	Date: 18.SEP.2024 16:17:59



APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

***** END OF REPORT *****