

TEST REPORT

Report No.	CISRR24120605002
Project No.	CISR241206050
FCC ID	2AL6KBLM8723DU1
Applicant	ShenZhen BiLian Electronic Co.,Ltd.
Address	Room 501,Building 3,No.32,Dafu Road, Zhangge Community, FuchengStreet, Longhua District, Shenzhen, China
Manufacturer	ShenZhen BiLian Electronic Co.,Ltd.
Address	Room 501,Building 3,No.32,Dafu Road, Zhangge Community, FuchengStreet, Longhua District, Shenzhen, China
Product Name	802.11b/g/n 150Mbps WLAN + Bluetooth v4.2 Combo USB Module
Trade Mark	N/A
Model/Type reference	BL-M8723DU1
Listed Model(s)	N/A
Standard	47 CFR Part 15.247
Test date	December 7, 2024 to December 23, 2024
Issue date	December 24, 2024
Test result	Complied



Prepared by: Edward Wang



Approved by: Genry Long

The test results relate only to the tested samples.

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1. REPORT VERSION

Version No.	Issue date	Description
00	December 24, 2024	Original

2. TEST DESCRIPTION

No.	Test Item	Standard Requirement	Result
1	Antenna Requirement	47 CFR 15.203	Pass
2	Conducted Emission at AC power line	47 CFR 15.207(a)	Pass
3	6dB Bandwidth	47 CFR 15.247(a)(2)	Pass
4	Maximum Conducted Output Power	47 CFR 15.247(b)(3)	Pass
5	Power Spectral Density	47 CFR 15.247(e)	Pass
6	Conducted band edge and spurious emission	47 CFR 15.247(d), 15.209, 15.205	Pass
7	Radiated band edge emission	47 CFR 15.247(d), 15.209, 15.205	Pass
8	Radiated Spurious Emission (below 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass
9	Radiated Spurious Emission (Above 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass

Note:

- The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Product Description *

Main unit information:	
Product Name:	802.11b/g/n 150Mbps WLAN + Bluetooth v4.2 Combo USB Module
Trade Mark:	N/A
Model No.:	BL-M8723DU1
Listed Model(s):	N/A
Model difference:	N/A
Power supply:	DC 3.3V
Hardware version:	V1.0
Software version:	V1.0
Accessory unit information:	
Battery information:	N/A

3.2. Radio Specification Description *

Modulation type:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g/n(HT20)/n(HT40): OFDM(BPSK, QPSK, 16QAM, 64QAM)
Operation frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Channel number:	802.11b/g/n(HT20): 11 Channels; 802.11n(HT40): 7 Channels
Channel separation:	5MHz
Antenna type:	PCB Antenna
Antenna gain:	2.5dBi

Note:

- 1) *: Since the above information is provided by the applicant relevant results or conclusions of this report are only made for these information, Bangce is not responsible for the authenticity, integrity and results of the information and/or the validity of the conclusion.
- 2) Operation frequency list as follow:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

3.3. Modification of EUT

No modifications are made to the EUT during all test items.

3.4. Deviation from standards

None

3.5. Testing Site

Laboratory Name	Shenzhen Bangce Testing Technology Co., Ltd.
Laboratory Location	101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen, Guangdong, China
Contact information	Tel: 86-755-2319 6848, email: service@cis-cn.net Website: http://www.cis-cn.net/
FCC registration number	736346
FCC designation number	CN172

TEST CONFIGURATION

3.6. Test frequency list

Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
2412	2437	2462

3.7. Descriptions of test mode

No	Test mode	Description
TM1	802.11b mode	Keep the EUT in 802.11b transmitting mode at lowest, middle and highest channel.
TM2	802.11g mode	Keep the EUT in 802.11g transmitting mode at lowest, middle and highest channel.
TM3	802.11n(HT20) mode	Keep the EUT in 802.11n(HT20) transmitting mode at lowest, middle and highest channel.
TM4	802.11n(HT40) mode	Keep the EUT in 802.11n(HT40) transmitting mode at lowest, middle and highest channel.
TM5	Link mode	Keep the EUT in WiFi linking mode with AE.

3.8. Test sample information

Type	Sample No.
Engineer sample	CISR241206050-S01
Normal sample	CISR241206050-S02

3.9. Support unit used in test configuration

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:

Item	Equipment name	Trade Name	Model No.
1	Adapter	Guangdong Sangu Technology Co. Ltd	SG-0501000AU
2	PC	Lenovo	ThinkPad

3.10. Environmental conditions

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

3.11. Equipment Used during the Test

Conducted Emission at AC power line						
Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESC17	100853	2024-01-08	2025-01-07
2	Artificial power network	Schwarzbeck	NSLK8127	8127-01096	2024-01-08	2025-01-07
3	8-wire Impedance Stabilization Network	Schwarzbeck	NTFM 8158	8158-00337	2024-01-08	2025-01-07
4	Artificial power network	Schwarzbeck	ENV216	/	2024-01-08	2025-01-07

6dB Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands						
Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	MXG RF Signal Generator	Agilent	N5181A	MY50145362	2024-01-08	2025-01-07
2	Spectrum analyzer	R&S	FSV-40N	102130	2024-01-08	2025-01-07
3	Vector Signal Generator	Agilent	N5182A	MY50142364	2024-06-14	2025-06-13
4	Power Meter	WCS	WCS-PM	WCSPM230405A	2024-01-08	2025-01-07

Band edge emissions (Radiated) Emissions in frequency bands (below 1GHz) Emissions in frequency bands (above 1GHz)						
Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESC17	100853	2024-01-08	2025-01-07
2	Amplifier	Tonscend	TAP9K3G40	AP23A8060270	2024-01-08	2025-01-07
3	Prime amplifier	Tonscend	TAP01018050	AP23A8060280	2024-01-08	2025-01-07
4	9*6*6 anechoic chamber	SKET	9.3*6.3*6	N/A	2024-09-02	2027-09-01
5	Spectrum analyzer	Agilent	N9020A	MY50530263	2024-01-08	2025-01-07
6	Spectrum analyzer	R&S	FSV-40N	102130	2024-01-08	2025-01-07
7	Bilog Antenna	Schwarzbeck	VULB 9163	1463	2023-01-09	2025-01-08
8	Horn Antenna	SCHWARZBECK	BBHA 9120 D	2487	2023-01-09	2025-01-08
9	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	/	2023-01-09	2025-01-08

10	RF Cable	Tonscend	Cable 1	/	2024-01-08	2025-01-07
11	RF Cable	Tonscend	Cable 2	/	2024-01-08	2025-01-07
12	RF Cable	SKET	Cable 3	/	2024-01-08	2025-01-07
13	L.I.S.N.#1	Schwarzbeck	NSLK812 7	/	2024-01-08	2025-01-07
14	L.I.S.N.#2	ROHDE&SCHWA RZ	ENV216	/	2024-01-08	2025-01-07
15	Horn Antenna	SCHWARZBECK	BBHA917 0	1130	2023-01-09	2025-01-08
16	Preamplifier	Tonscend	TAP1804 0048	AP21C806126	2024-01-08	2025-01-07
17	Variable-frequency power source	Pinhong	PH1110	/	2024-01-08	2025-01-07
18	6dB Attenuator	SKET	DC-6G	/	/	/
19	Antenna tower	SKT	Bk-4AT- BS	AT202104010 1-V1	2024-06-14	2025-06-13

4. TEST RESULTS

4.1. Evaluation Results (Evaluation)

4.1.1. Antenna Requirement

Test Requirement:	Refer to 47 CFR 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.
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4.1.1.1. Test Result

Pass

4.1.1.2. Conclusion:

The EUT antenna is FPC Antenna (2.5dBi), the directional gain of the antenna less than 6dBi. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used. Antenna structure please refer to the EUT internal photographs antenna photo.
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4.2. Radio Spectrum Matter Test Results (RF)

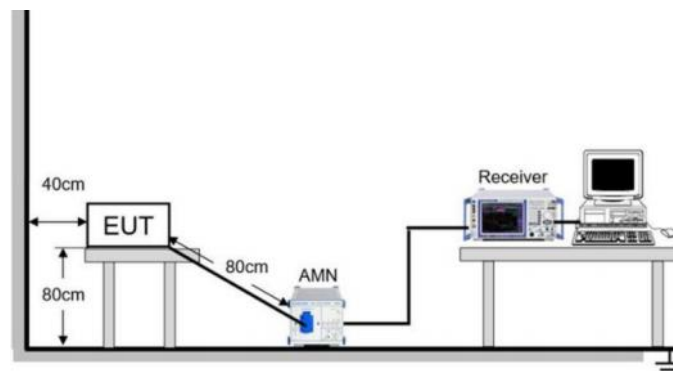
4.2.1. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		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 Method:	ANSI C63.10-2020 section 6.2		
Procedure:	1. The EUT was setup according to ANSI C63.10 requirements. 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. 4. The peripheral devices are also connected to the main power through a LISN. (Refer to the block diagram of the test setup and photographs) 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz. 8. During the above scans, the emissions were maximized by cable manipulation.		

4.2.1.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.4 °C	Humidity:	56.1 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM5				
Final test mode:	TM5				

4.2.1.2. Test Setup Diagram

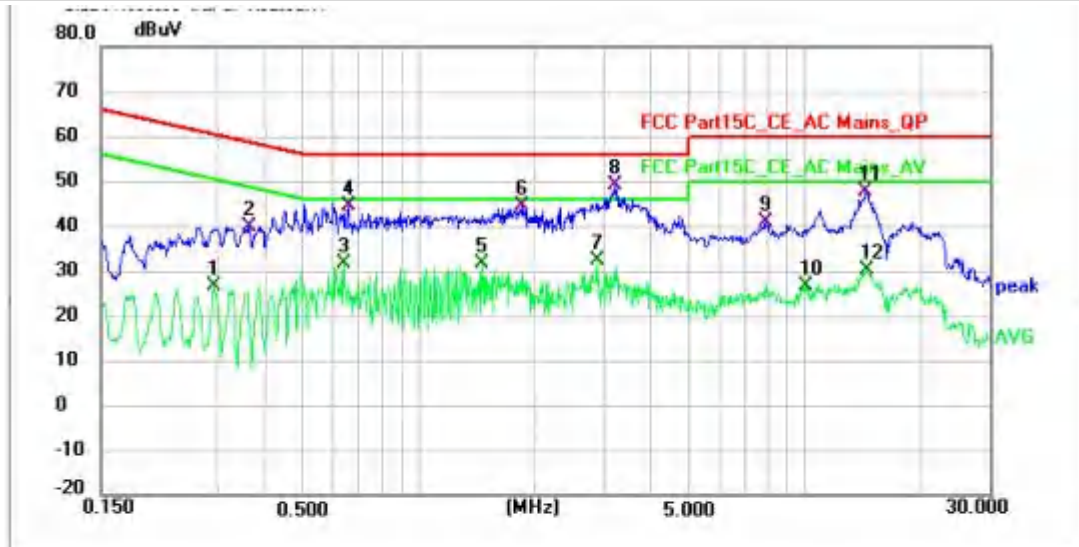


4.2.1.3. Test Result

Pass

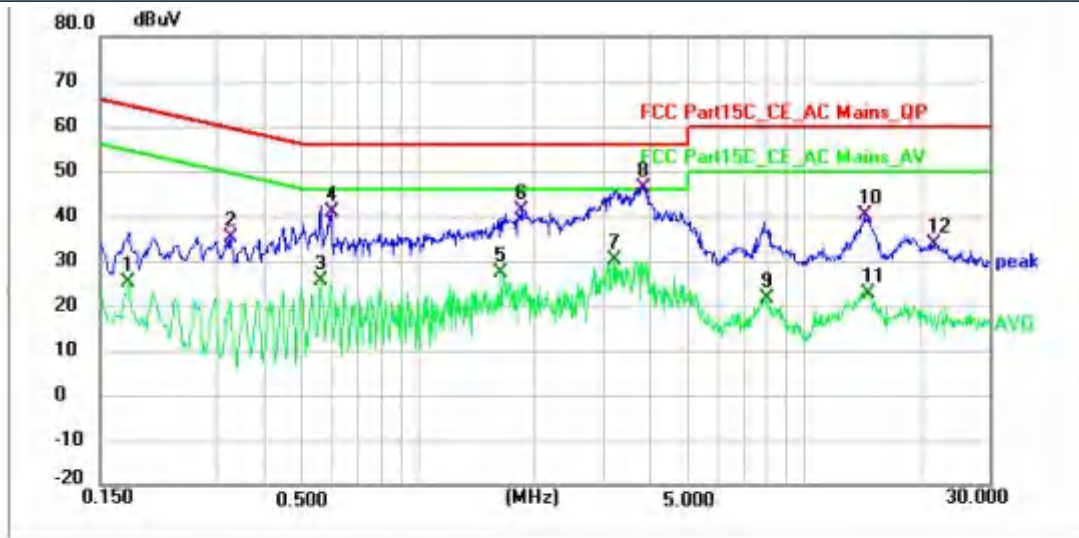
4.2.1.4. Test Data

Mode5 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.294	26.19	0.34	26.53	50.41	-23.88	AVG	P	
2	0.362	39.50	0.32	39.82	58.68	-18.86	QP	P	
3	0.638	31.12	0.39	31.51	46.00	-14.49	AVG	P	
4	0.654	44.10	0.40	44.50	56.00	-11.50	QP	P	
5	1.450	31.05	0.56	31.61	46.00	-14.39	AVG	P	
6	1.842	43.82	0.66	44.48	56.00	-11.52	QP	P	
7	2.906	31.34	0.96	32.30	46.00	-13.70	AVG	P	
8 *	3.210	48.21	1.06	49.27	56.00	-6.73	QP	P	
9	7.966	37.83	3.03	40.86	60.00	-19.14	QP	P	
10	10.046	23.09	3.63	26.72	50.00	-23.28	AVG	P	
11	14.374	41.75	5.90	47.65	60.00	-12.35	QP	P	
12	14.506	24.36	5.97	30.33	50.00	-19.67	AVG	P	

Mode5 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.178	24.83	0.32	25.15	54.58	-29.43	AVG	P	
2	0.326	35.00	0.34	35.34	59.55	-24.21	QP	P	
3	0.558	25.14	0.39	25.53	46.00	-20.47	AVG	P	
4	0.594	40.45	0.39	40.84	56.00	-15.16	QP	P	
5	1.642	26.55	0.61	27.16	46.00	-18.84	AVG	P	
6	1.846	40.45	0.66	41.11	56.00	-14.89	QP	P	
7	3.230	29.03	1.08	30.11	46.00	-15.89	AVG	P	
8 *	3.838	45.05	1.32	46.37	56.00	-9.63	QP	P	
9	7.998	18.45	3.06	21.51	50.00	-28.49	AVG	P	
10	14.350	34.59	5.43	40.02	60.00	-19.98	QP	P	
11	14.642	17.27	5.55	22.82	50.00	-27.18	AVG	P	
12	21.518	27.91	5.78	33.69	60.00	-26.31	QP	P	

Note:

- 1). Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
- 2). Margin = Result - Limit

4.2.2. 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing 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 “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

4.2.2.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.4 °C	Humidity:	55.3 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.2.2.2. Test Setup Diagram



4.2.2.3. Test Result

Pass

4.2.2.4. Test Data

Please Refer to Appendix for Details.

4.2.3. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

4.2.3.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.4 °C	Humidity:	55.3 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.2.3.2. Test Setup Diagram



4.2.3.3. Test Result

Pass

4.2.3.4. Test Data

Please Refer to Appendix for Details.

4.2.4. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

4.2.4.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.4 °C	Humidity:	55.3 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.2.4.2. Test Setup Diagram



4.2.4.3. Test Result

Pass

4.2.4.4. Test Data

Please Refer to Appendix for Details.

4.2.5. Conducted band edge and spurious emission

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz 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 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, 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 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

4.2.5.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.4 °C	Humidity:	55.3 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.2.5.2. Test Setup Diagram



4.2.5.3. Test Result

Pass

4.2.5.4. Test Data

Please Refer to Appendix for Details.

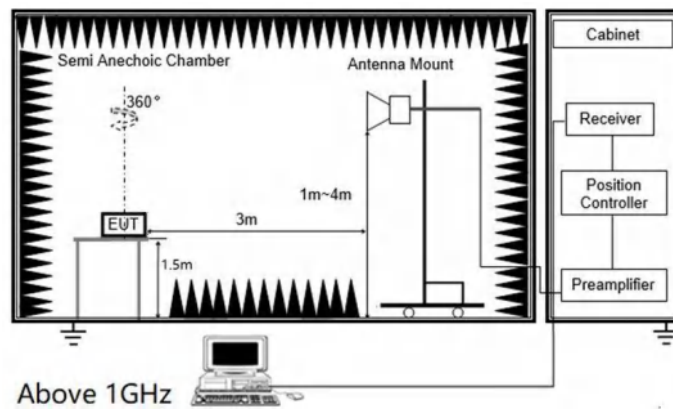
4.2.6. Radiated band edge emission

Test Requirement:	Refer to 47 CFR 15.247(d), 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)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.10		
Procedure:	1. 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=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement For average measurement: use duty cycle correction factor method (DCCF), Averager level = Peak level + DCCF		

4.2.6.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.4 °C	Humidity:	56.1 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

4.2.6.2. Test Setup Diagram



4.2.6.3. Test Result

Pass

4.2.6.4. Test Data

Have pre-scan all test mode, found 802.11b mode which it was worst case, so only show the worst case' s data on this report.

Test channel:CH1										
Freq. (MHz)	Reading (dBuv)	Ant. Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correc tion Factor (dB/m)	Level (dBuv)	Limit (dBu V/m)	Margin (dB)	Remark	Polarity
2390.00	70.54	28.62	4.08	38.62	-5.92	64.62	74	9.38	Peak	Horizontal
2390.00	51.03	28.62	4.08	38.62	-5.92	45.11	54	8.89	Average	Horizontal
2390.00	68.68	28.62	4.08	38.62	-5.92	62.76	74	11.24	Peak	Vertical
2390.00	50.18	28.62	4.08	38.62	-5.92	44.26	54	9.74	Average	Vertical

Test channel:CH11										
Freq. (MHz)	Reading (dBuv)	Ant. Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correc tion Factor (dB/m)	Level (dBuv)	Limit (dBu V/m)	Margin (dB)	Remark	Polarity
2483.50	70.01	29.45	3.91	40.17	-6.81	63.20	74	10.80	Peak	Horizontal
2483.50	49.42	29.45	3.91	40.17	-6.81	42.61	54	11.39	Average	Horizontal
2483.50	68.08	29.45	3.91	40.17	-6.81	61.27	74	12.73	Peak	Vertical
2483.50	50.33	29.45	3.91	40.17	-6.81	43.52	54	10.48	Average	Vertical

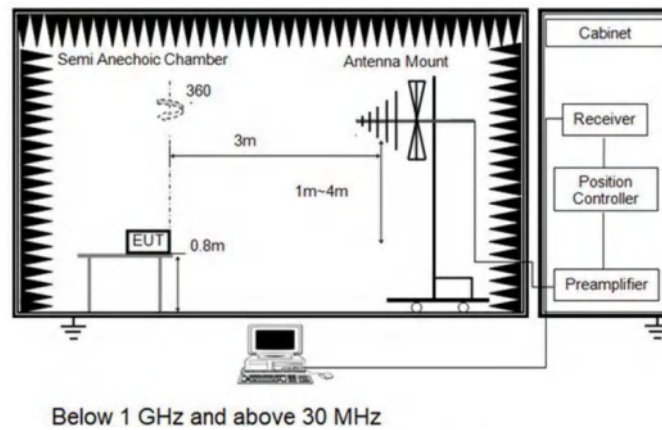
4.2.7. Radiated Spurious Emission (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), 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)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.6.4		
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) 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.		

4.2.7.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.4 °C	Humidity:	56.1 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5				
Final test mode:	TM1, TM2, TM3, TM4, TM5				

4.2.7.2. Test Setup Diagram



4.2.7.3. Test Result

Pass

4.2.7.4. Test Data

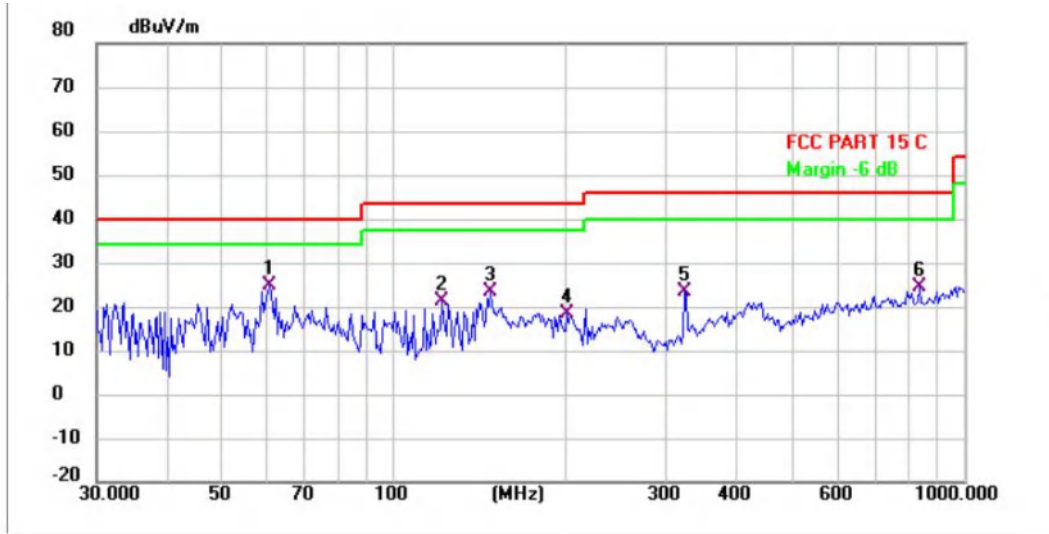
Have pre-scan all test channel, found CH1(802.11b) mode which it was worst case, so only show the worst case's data on this report.

Mode1 / Polarization: Horizontal / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	51.121	58.85	-29.37	29.48	40.00	-10.52	QP	P	
2 *	60.492	64.01	-30.83	33.18	40.00	-6.82	QP	P	
3	112.130	56.60	-30.93	25.67	43.50	-17.83	QP	P	
4	166.068	62.94	-32.76	30.18	43.50	-13.32	QP	P	
5	382.588	52.76	-25.26	27.50	46.00	-18.50	QP	P	
6	827.493	41.91	-16.27	25.64	46.00	-20.36	QP	P	

Mode1 / Polarization: Vertical / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	60.492	55.80	-30.83	24.97	40.00	-15.03	QP	P	
2	121.123	53.61	-32.25	21.36	43.50	-22.14	QP	P	
3	147.404	57.14	-33.69	23.45	43.50	-20.05	QP	P	
4	200.688	48.31	-29.83	18.48	43.50	-25.02	QP	P	
5	323.320	49.98	-26.62	23.36	46.00	-22.64	QP	P	
6	833.317	40.66	-16.19	24.47	46.00	-21.53	QP	P	

Note:

1) For 9 kHz ~ 30 MHz Measurement

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.

2) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor

3) Margin = Limit – Level

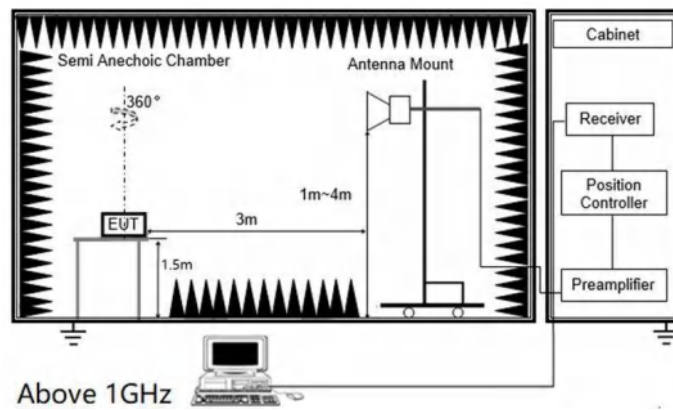
4.2.8. Radiated Spurious Emission (Above 1GHz)

Test Requirement:	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)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.6.4		
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) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement For average measurement: use duty cycle correction factor method (DCCF)Averager level = Peak level + DCCF		

4.2.8.1. E.U.T. Operation

Operating Environment:					
Temperature:	23.4 °C	Humidity:	56.1 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5				
Final test mode:	TM1, TM2, TM3, TM4, TM5				

4.2.8.2. Test Setup Diagram



4.2.8.3. Test Result

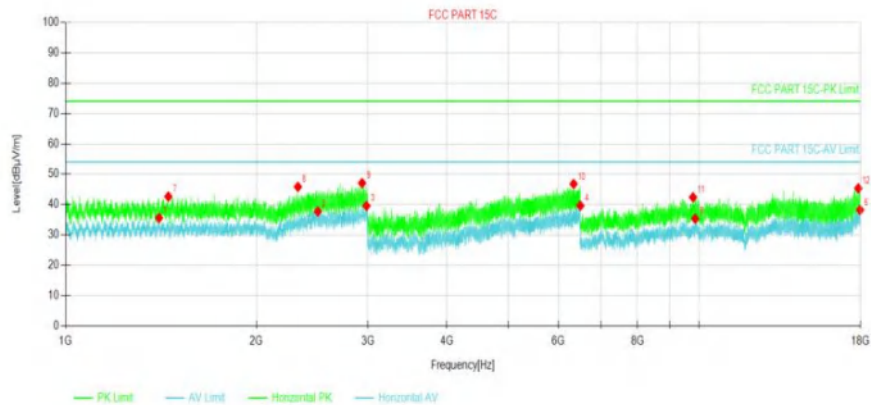
Pass

4.2.8.4. Test Data

Note:

1. In order to prevent the amplifier from saturating, we add a band-stop filter that filters out the main frequency.
2. 18GHz-25GHz is the background of the site, there is no radiated spurious.
3. Have pre-scan all test mode, found 802.11b which it was worst case, so only show the worst case' s data on this report.

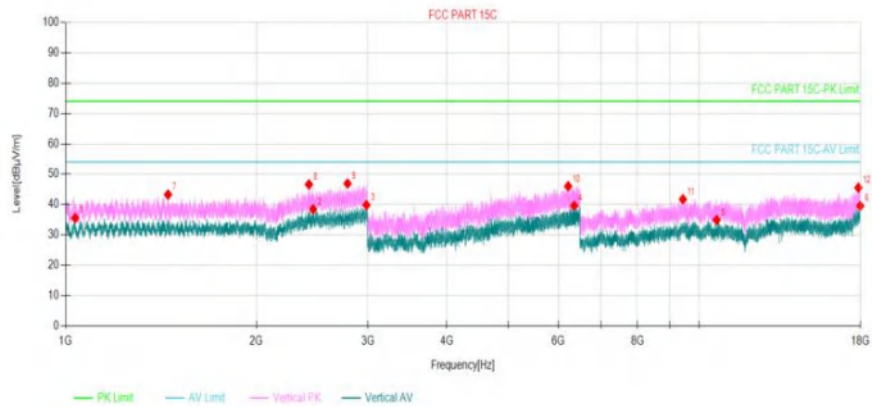
Mode1 / Polarization: Horizontal / CH: L



Suspected Data List

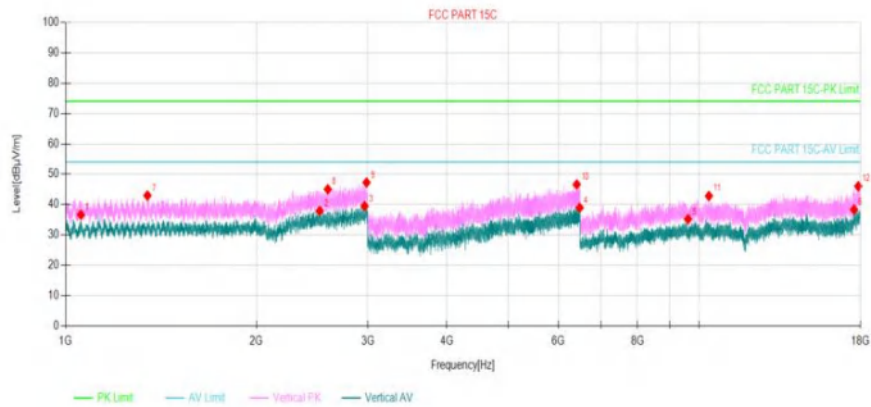
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	1404.2	32.64	35.58	2.94	54.00	18.42	Horizontal	PASS
2	2501	29.99	37.73	7.74	54.00	16.27	Horizontal	PASS
3	2985	29.73	39.57	9.84	54.00	14.43	Horizontal	PASS
4	6497.55	33.11	39.64	6.53	54.00	14.36	Horizontal	PASS
5	9863.75	31.95	35.34	3.39	54.00	18.66	Horizontal	PASS
6	17965.5	24.90	38.21	13.31	54.00	15.79	Horizontal	PASS
7	1452.4	39.54	42.63	3.09	74.00	31.37	Horizontal	PASS
8	2326.6	39.19	45.84	6.65	74.00	28.16	Horizontal	PASS
9	2938.2	37.65	47.09	9.44	74.00	26.91	Horizontal	PASS
10	6340.4	40.63	46.77	6.14	74.00	27.23	Horizontal	PASS
11	9789	39.16	42.39	3.23	74.00	31.61	Horizontal	PASS
12	17850.5	32.34	45.35	13.01	74.00	28.65	Horizontal	PASS

Mode1 / Polarization: Vertical / CH: L



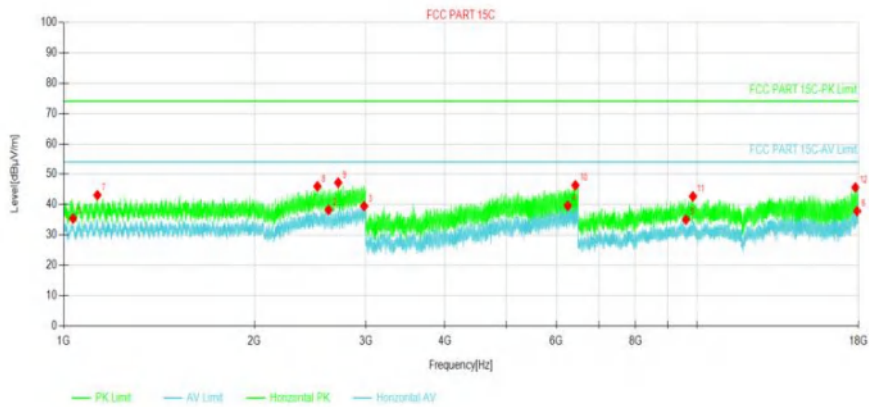
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	1035	35.25	35.55	0.30	54.00	18.45	Vertical	PASS
2	2459	31.04	38.47	7.43	54.00	15.53	Vertical	PASS
3	2984.8	30.00	39.84	9.84	54.00	14.16	Vertical	PASS
4	6354.75	33.38	39.62	6.24	54.00	14.38	Vertical	PASS
5	10667.6	30.52	34.92	4.40	54.00	19.08	Vertical	PASS
6	17975.8	26.19	39.57	13.38	54.00	14.43	Vertical	PASS
7	1451	40.20	43.29	3.09	74.00	30.71	Vertical	PASS
8	2421.8	39.50	46.65	7.15	74.00	27.35	Vertical	PASS
9	2787	38.57	46.92	8.35	74.00	27.08	Vertical	PASS
10	6216.5	40.36	46.04	5.68	74.00	27.96	Vertical	PASS
11	9434.8	38.67	41.76	3.09	74.00	32.24	Vertical	PASS
12	17853.9	32.57	45.57	13.00	74.00	28.43	Vertical	PASS

Mode1 / Polarization: Horizontal / CH: M



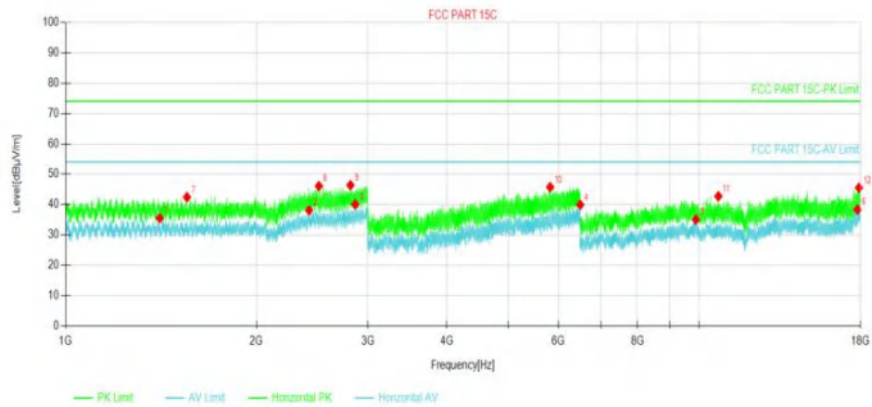
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	1056.8	36.10	36.66	0.56	54.00	17.34	Vertical	PASS
2	2518.4	30.28	37.93	7.65	54.00	16.07	Vertical	PASS
3	2964.8	29.82	39.49	9.67	54.00	14.51	Vertical	PASS
4	6481.1	32.43	38.96	6.53	54.00	15.04	Vertical	PASS
5	9609.6	32.09	35.23	3.14	54.00	18.77	Vertical	PASS
6	17576.8	26.33	38.33	12.00	54.00	15.67	Vertical	PASS
7	1346.2	40.32	42.97	2.65	74.00	31.03	Vertical	PASS
8	2594	37.76	45.05	7.29	74.00	28.95	Vertical	PASS
9	2985.6	37.43	47.28	9.85	74.00	26.72	Vertical	PASS
10	6413.9	40.09	46.62	6.53	74.00	27.38	Vertical	PASS
11	10369.7	38.66	42.82	4.16	74.00	31.18	Vertical	PASS
12	17848.2	33.03	46.05	13.02	74.00	27.95	Vertical	PASS

Mode1 / Polarization: Vertical / CH: M



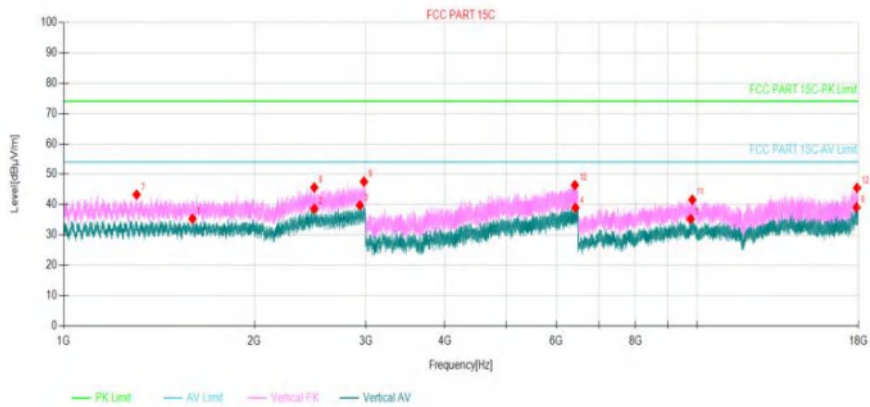
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	1034.6	35.12	35.41	0.29	54.00	18.59	Horizontal	PASS
2	2620	30.87	38.24	7.37	54.00	15.76	Horizontal	PASS
3	2982.2	29.66	39.48	9.82	54.00	14.52	Horizontal	PASS
4	6254.3	33.83	39.60	5.77	54.00	14.40	Horizontal	PASS
5	9609.6	31.90	35.04	3.14	54.00	18.96	Horizontal	PASS
6	17910.3	24.88	37.84	12.96	54.00	16.16	Horizontal	PASS
7	1130.4	41.80	43.10	1.30	74.00	30.90	Horizontal	PASS
8	2515.6	38.35	46.02	7.67	74.00	27.98	Horizontal	PASS
9	2713.4	39.35	47.23	7.88	74.00	26.77	Horizontal	PASS
10	6428.25	39.82	46.35	6.53	74.00	27.65	Horizontal	PASS
11	9855.7	39.33	42.70	3.37	74.00	31.30	Horizontal	PASS
12	17794.1	32.58	45.63	13.05	74.00	28.37	Horizontal	PASS

Mode1 / Polarization: Horizontal / CH: H



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Polarity	Verdict
1	1407.8	32.57	35.52	2.95	54.00	18.48	Horizontal	PASS
2	2423	30.94	38.10	7.16	54.00	15.90	Horizontal	PASS
3	2865.8	31.19	40.07	8.88	54.00	13.93	Horizontal	PASS
4	6494.75	33.41	39.94	6.53	54.00	14.06	Horizontal	PASS
5	9891.35	31.60	35.05	3.45	54.00	18.95	Horizontal	PASS
6	17798.7	25.23	38.35	13.12	54.00	15.65	Horizontal	PASS
7	1554.4	39.21	42.44	3.23	74.00	31.56	Horizontal	PASS
8	2511.2	38.42	46.11	7.69	74.00	27.89	Horizontal	PASS
9	2816.2	37.86	46.40	8.54	74.00	27.60	Horizontal	PASS
10	5820.65	41.13	45.76	4.63	74.00	28.24	Horizontal	PASS
11	10732	38.16	42.74	4.58	74.00	31.26	Horizontal	PASS
12	17896.5	32.64	45.54	12.90	74.00	28.46	Horizontal	PASS

Mode1 / Polarization: Vertical / CH: H



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Polarity	Verdict
1	1597.6	32.08	35.31	3.23	54.00	18.69	Vertical	PASS
2	2487.4	30.97	38.62	7.65	54.00	15.38	Vertical	PASS
3	2935.2	30.32	39.74	9.42	54.00	14.26	Vertical	PASS
4	6428.95	32.39	38.92	6.53	54.00	15.08	Vertical	PASS
5	9778.65	32.00	35.22	3.22	54.00	18.78	Vertical	PASS
6	17875.8	26.12	39.07	12.95	54.00	14.93	Vertical	PASS
7	1303.6	40.84	43.26	2.42	74.00	30.74	Vertical	PASS
8	2487.2	37.99	45.63	7.64	74.00	28.37	Vertical	PASS
9	2979.8	37.76	47.56	9.80	74.00	26.44	Vertical	PASS
10	6416.35	39.86	46.39	6.53	74.00	27.61	Vertical	PASS
11	9832.7	38.28	41.60	3.32	74.00	32.40	Vertical	PASS
12	17906.8	32.58	45.52	12.94	74.00	28.48	Vertical	PASS

Note:

1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor

2) Margin = Limit – Level

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

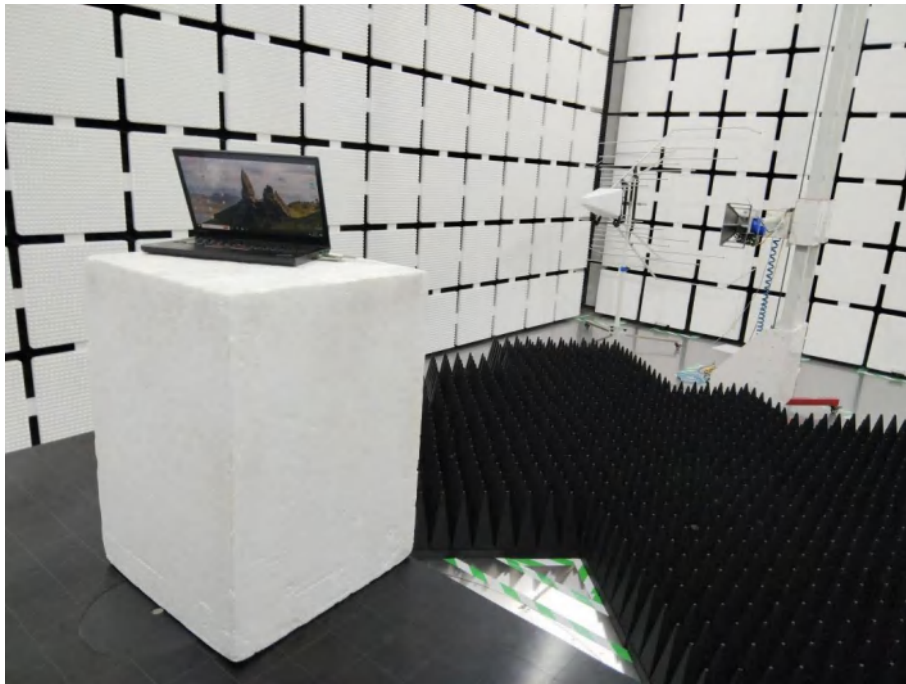
5. TEST SETUP PHOTOS

Conducted Emission at AC power line

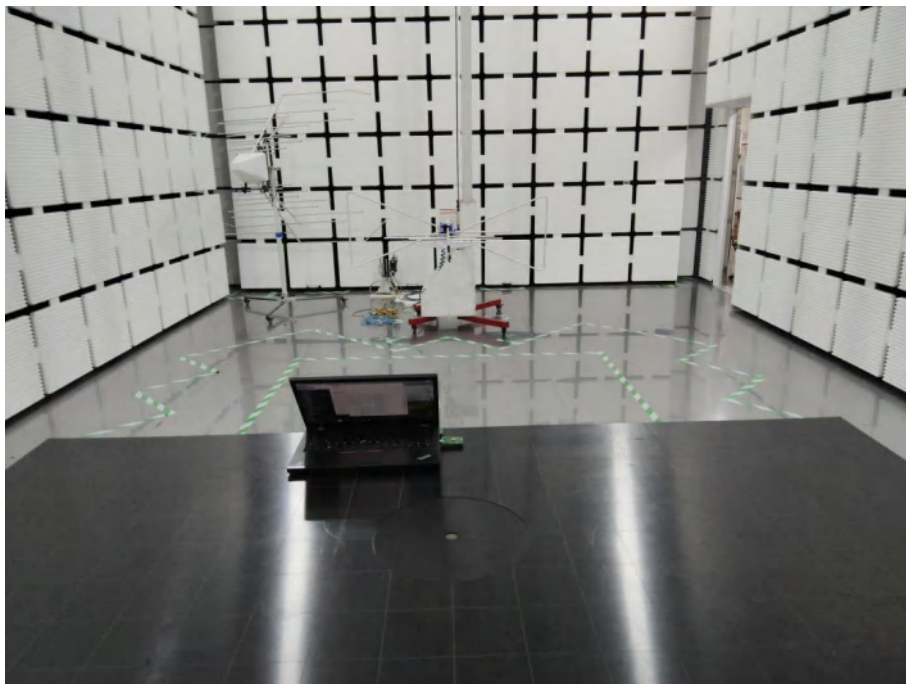


Radiated band edge emission
Radiated Spurious Emission (Above 1GHz)





Radiated Spurious Emission (below 1GHz)



6. Appendix Report

Appendix Report

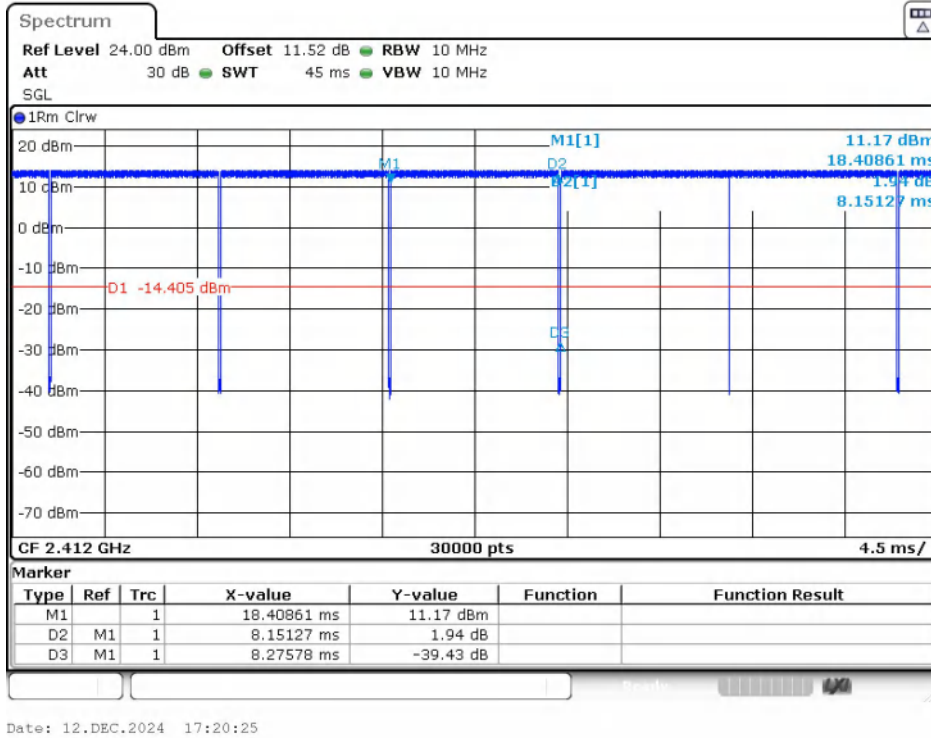
Report No.:	CISRR24120605002
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

Duty Cycle

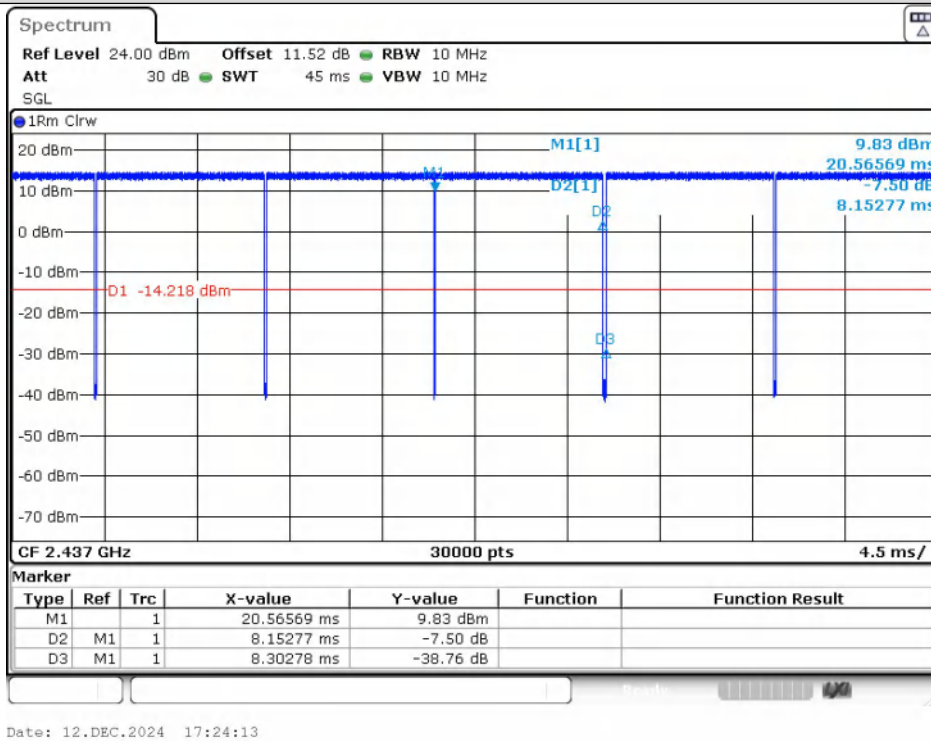
Test Result

Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.151	8.276	98.50	0.9850	0.0656	0.1227
		6		8.153	8.303	98.19	0.9819	0.0793	0.1227
		11		8.153	8.276	98.51	0.9851	0.0652	0.1227
IEEE 802.11g		1		1.364	1.424	95.79	0.9579	0.1868	0.7331
		6		1.364	1.478	92.29	0.9229	0.3485	0.7331
		11		1.364	1.424	95.79	0.9579	0.1868	0.7331
IEEE 802.11n_20	MCS 0	1		1.276	1.444	88.37	0.8837	0.537	0.7837
		6		1.276	1.399	91.21	0.9121	0.3996	0.7837
		11		1.276	1.417	90.05	0.9005	0.4552	0.7837
IEEE 802.11n_40		3		0.634	0.723	87.76	0.8776	0.567	1.5773
		6		0.630	0.922	68.33	0.6833	1.6539	1.5873
		9		0.630	0.890	70.79	0.7079	1.5003	1.5873

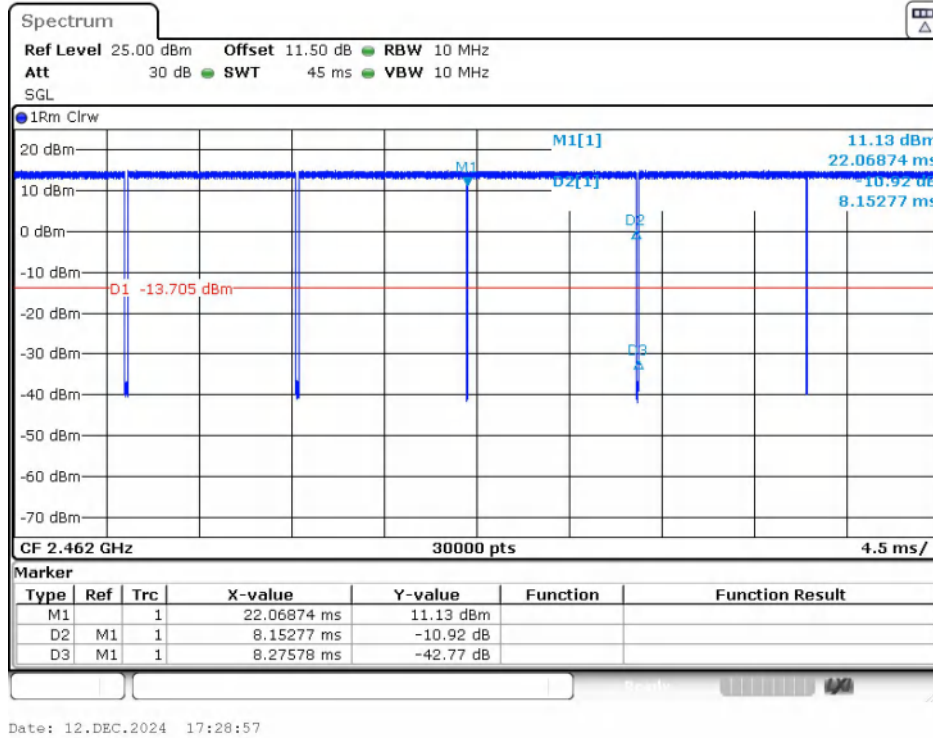
Test Graphs



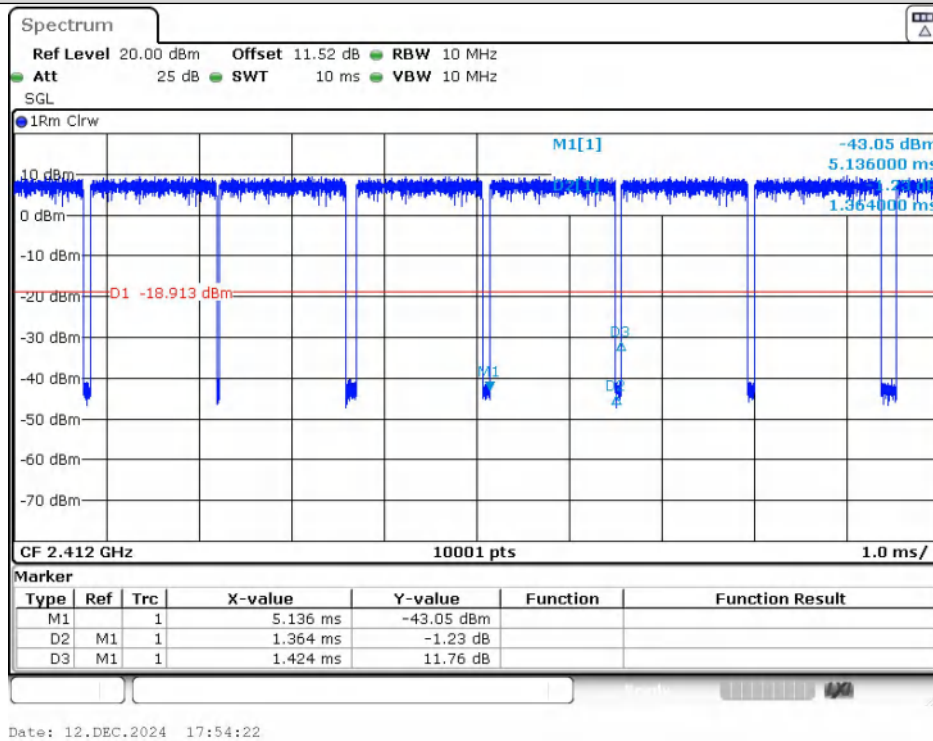
IEEE 802.11b_20MHz_Channel 1



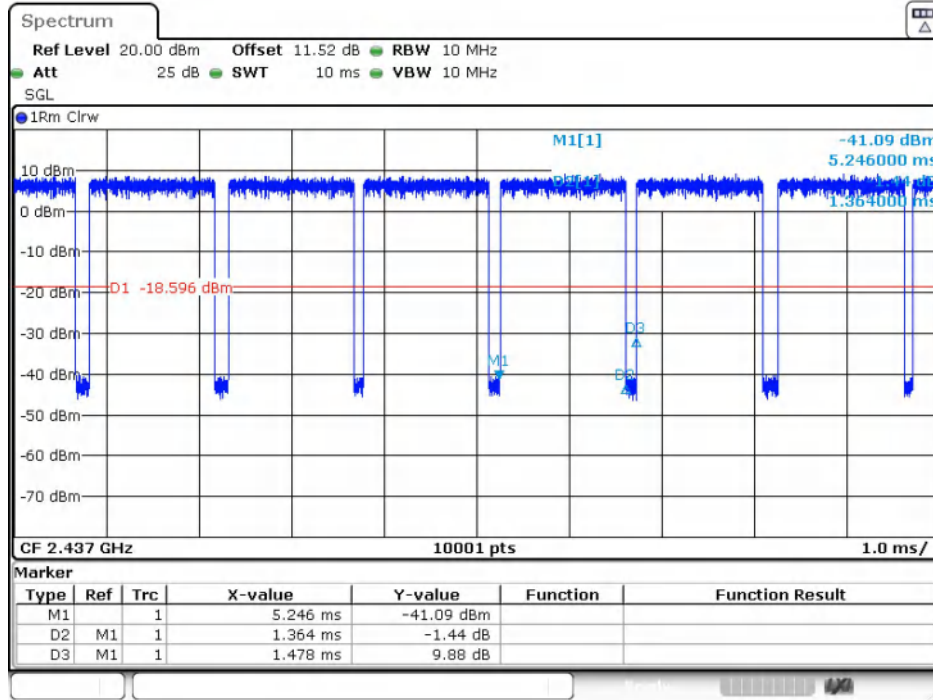
IEEE 802.11b_20MHz_Channel 6



IEEE 802.11b_20MHz_Channel 11

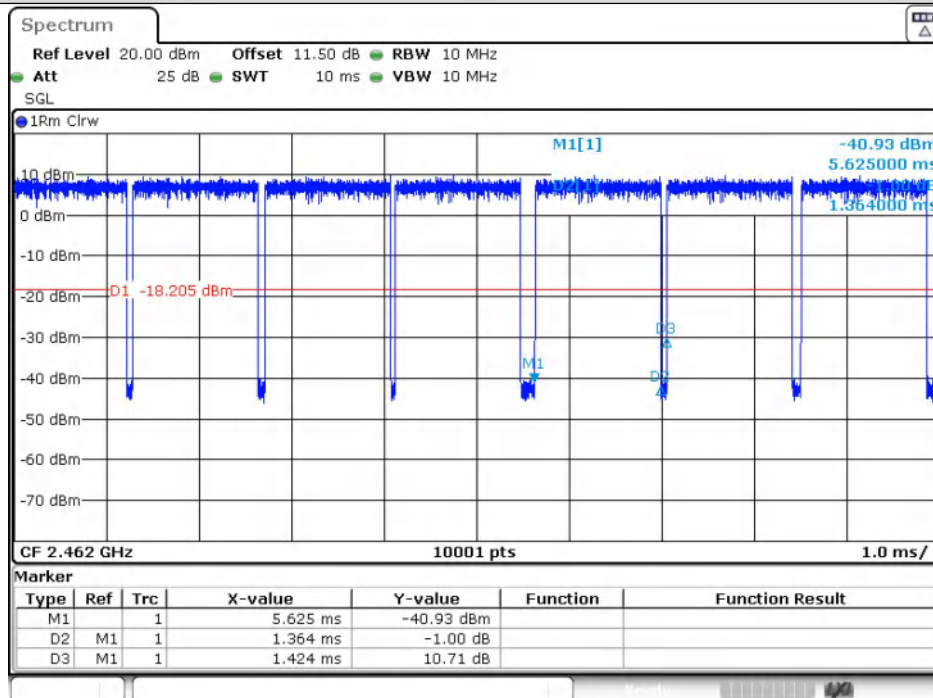


IEEE 802.11g_20MHz_Channel 1



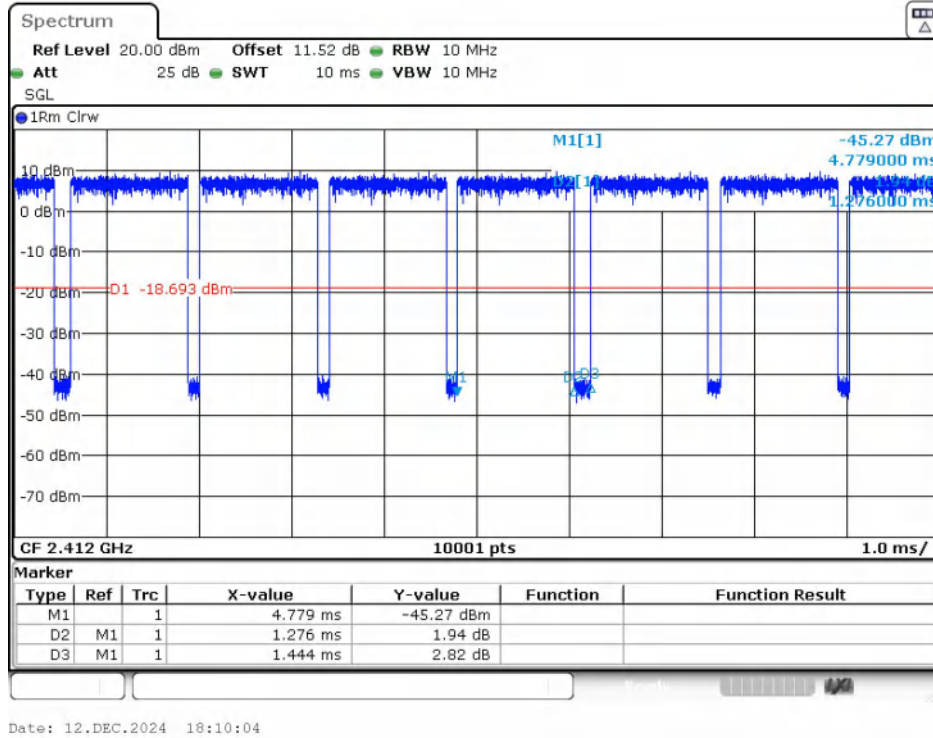
Date: 12.DEC.2024 18:01:08

IEEE 802.11g_20MHz_Channel 6

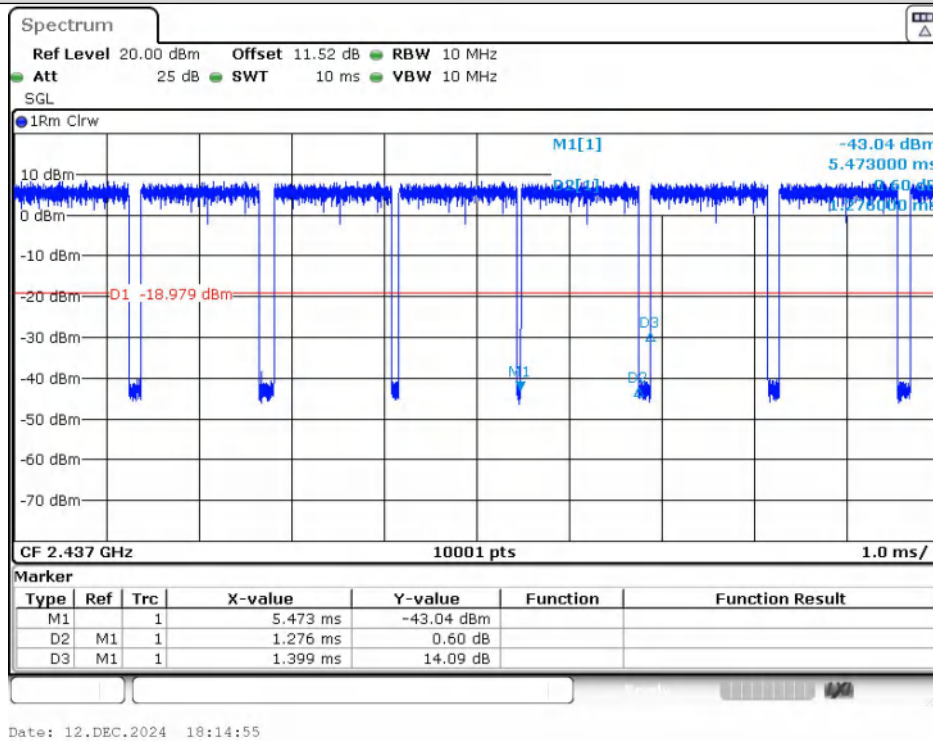


Date: 12.DEC.2024 18:04:23

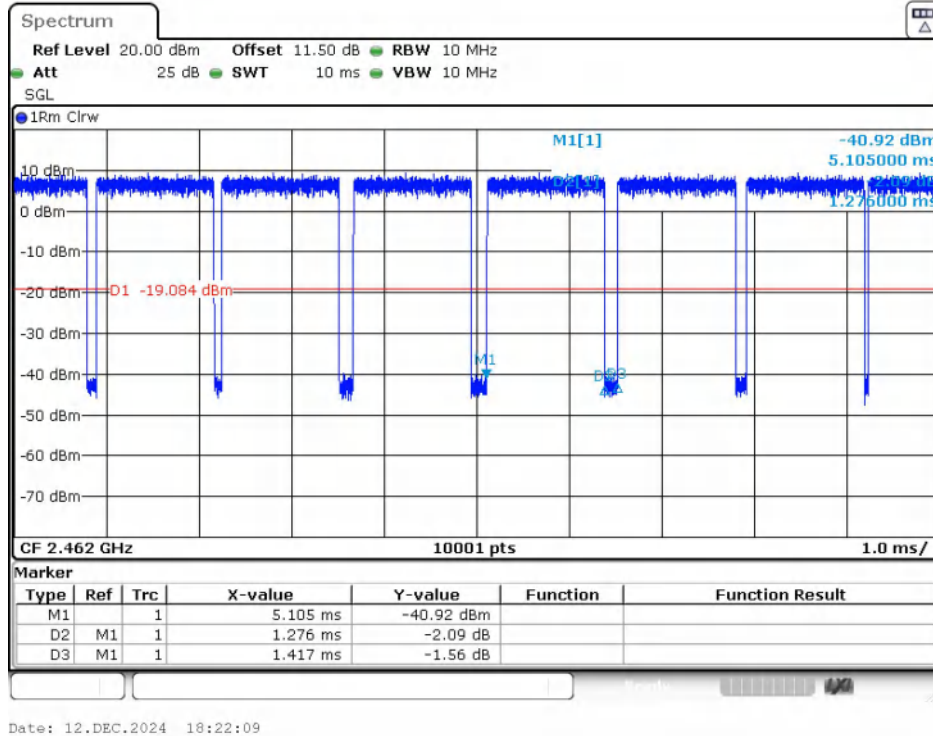
IEEE 802.11g_20MHz_Channel 11



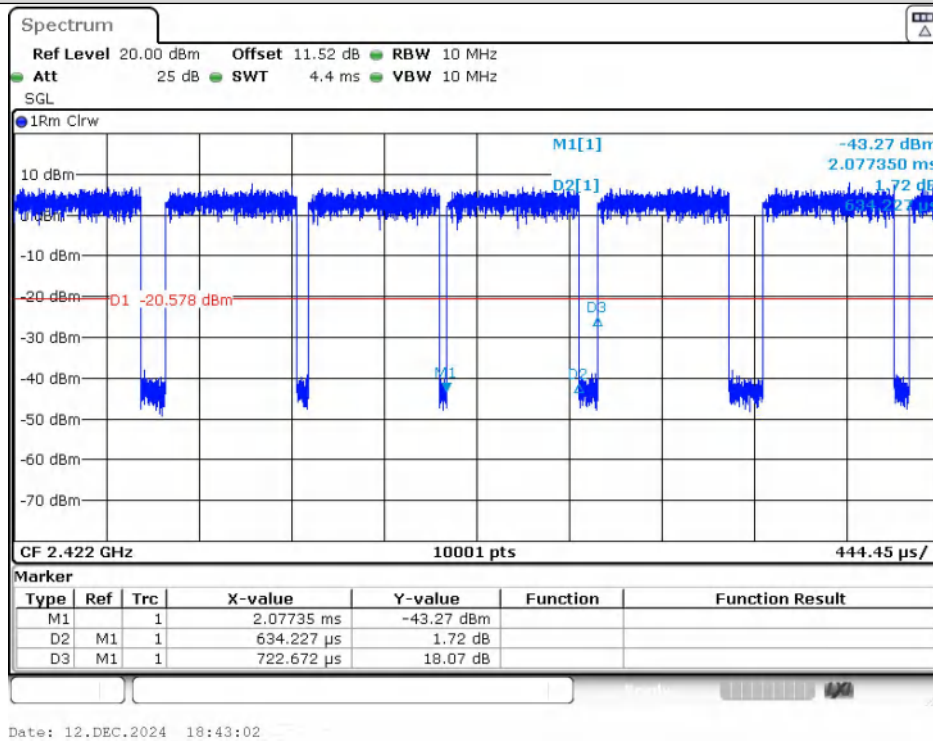
IEEE 802.11n_20MHz_Channel 1



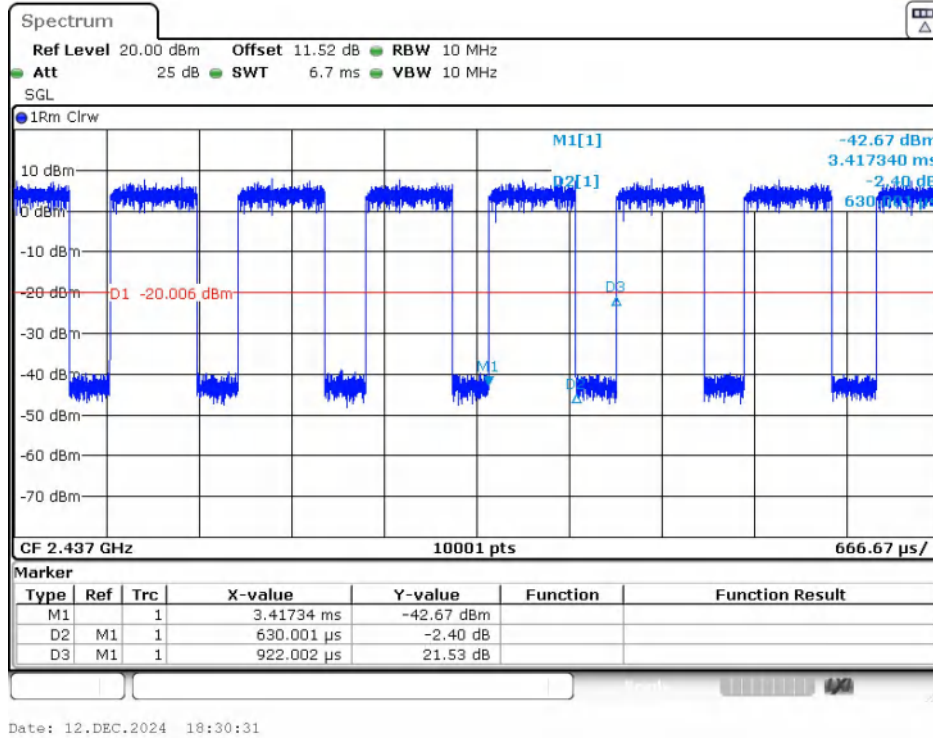
IEEE 802.11n_20MHz_Channel 6



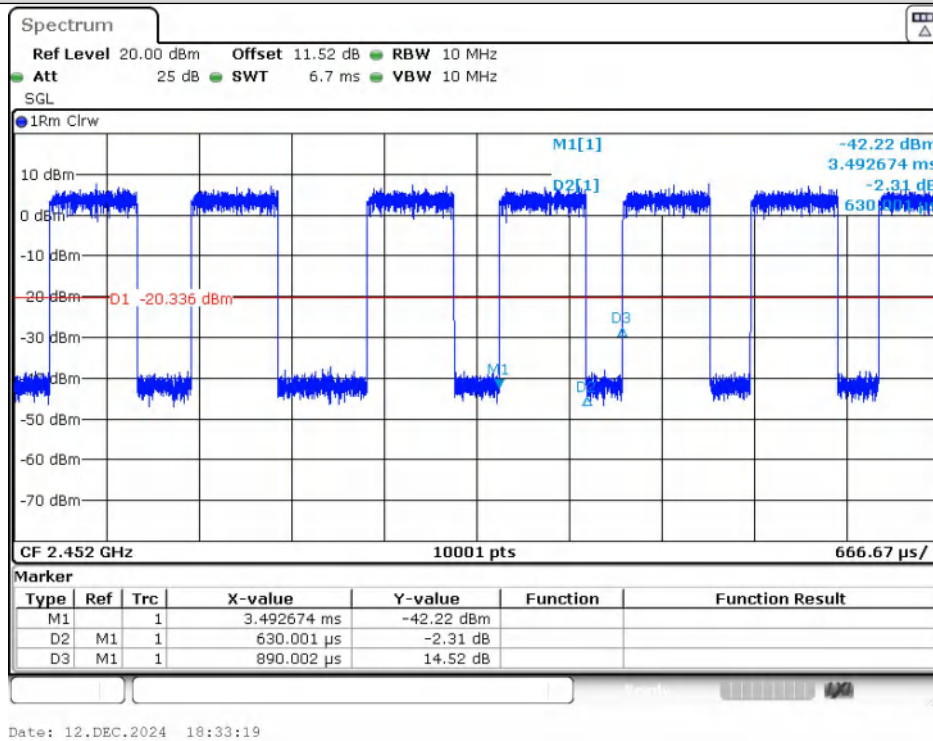
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6



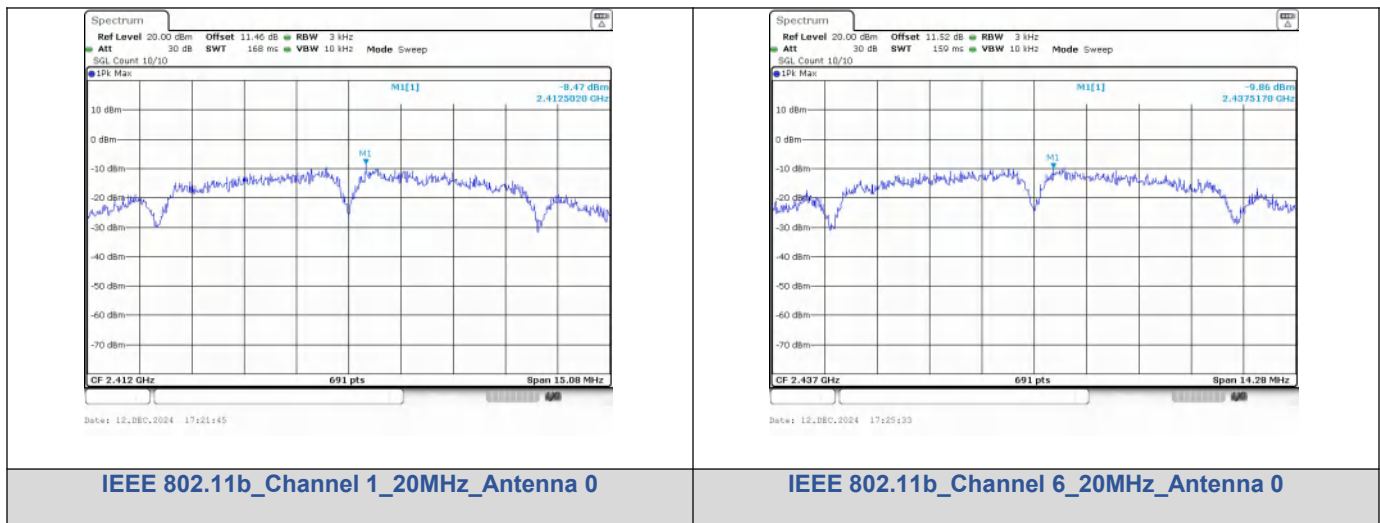
IEEE 802.11n_40MHz_Channel 9

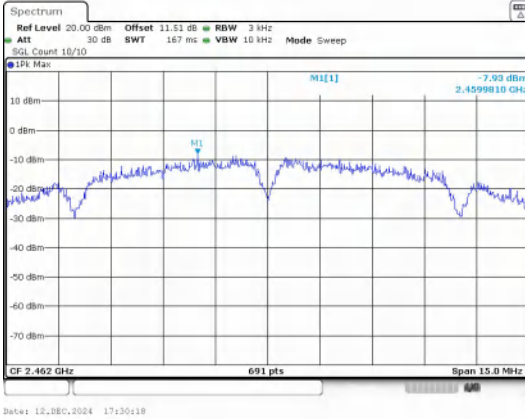
Power Spectral Density

Test Result

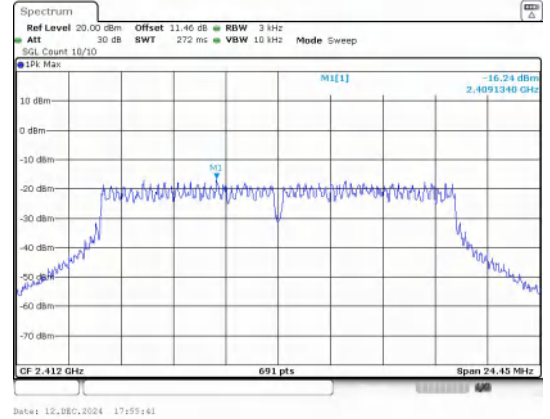
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-8.470	≤8	PASS
	6	-9.860		PASS
	11	-7.930		PASS
IEEE 802.11g	1	-16.240		PASS
	6	-17.430		PASS
	11	-16.060		PASS
IEEE 802.11n_20	1	-16.610		PASS
	6	-17.390		PASS
	11	-17.010		PASS
IEEE 802.11n_40	3	-19.820		PASS
	6	-19.130		PASS
	9	-19.380		PASS

Test Graphs

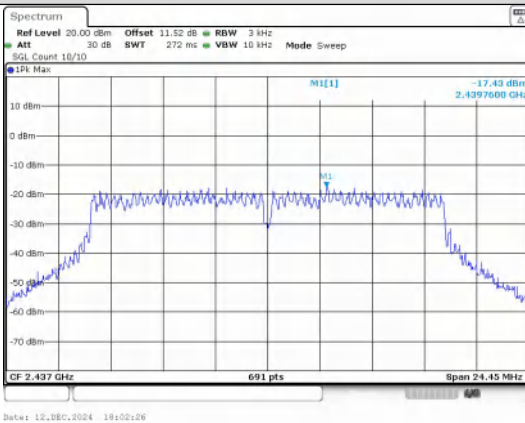




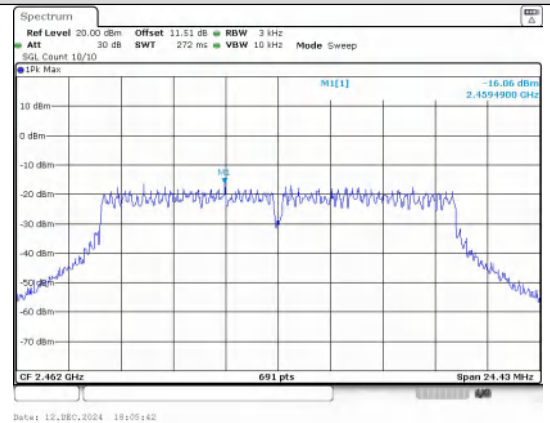
IEEE 802.11b_Channel 11_20MHz_Antenna 0



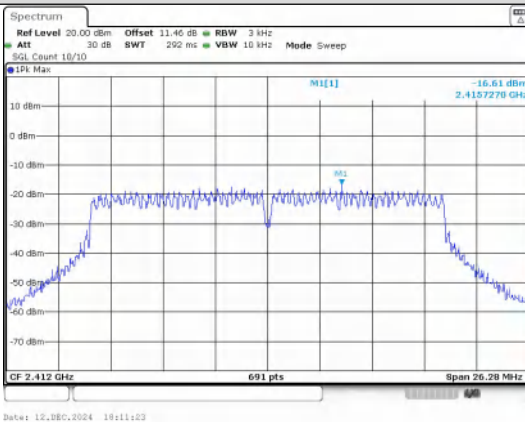
IEEE 802.11g_Channel 1_20MHz_Antenna 0



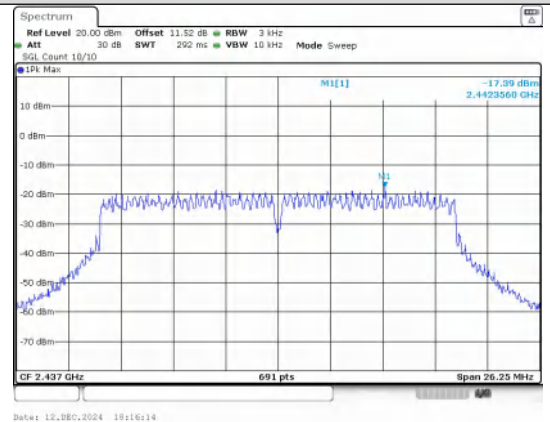
IEEE 802.11g_Channel 6_20MHz_Antenna 0



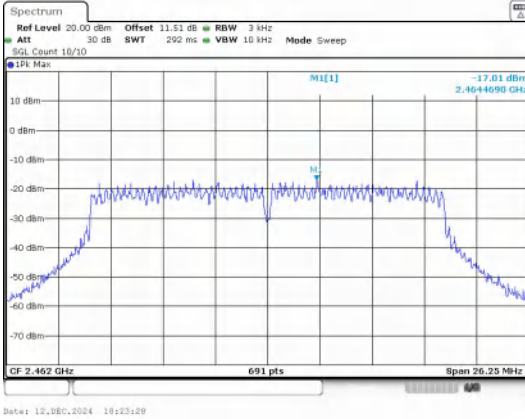
IEEE 802.11g_Channel 11_20MHz_Antenna 0



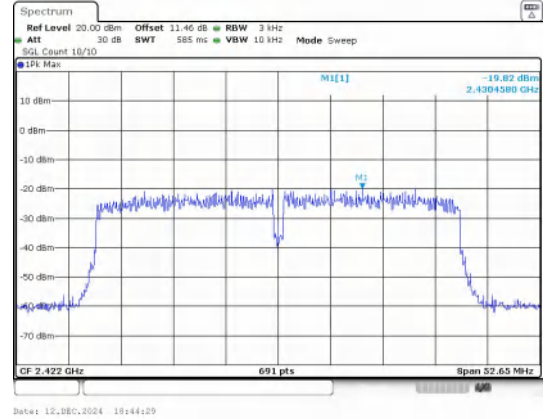
IEEE 802.11n_Channel 1_20MHz_Antenna 0



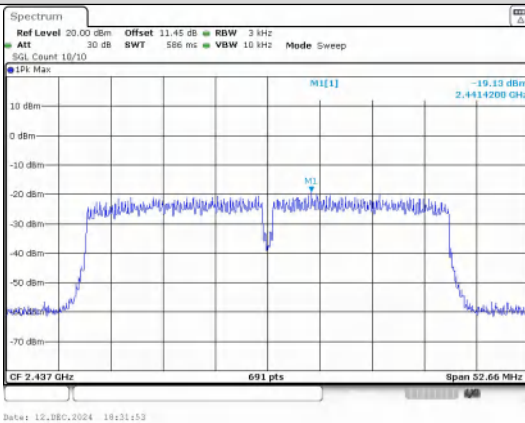
IEEE 802.11n_Channel 6_20MHz_Antenna 0



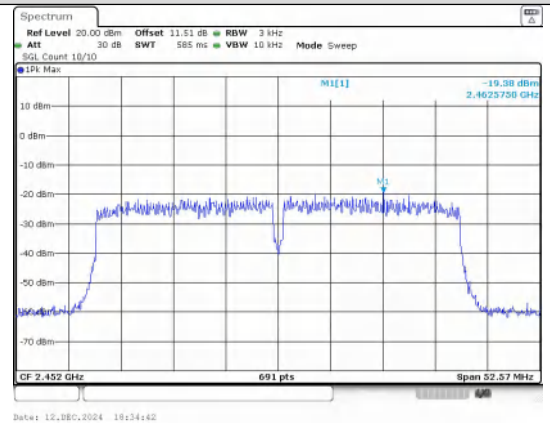
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0

Conducted Peak Output Power

Test Result

Conducted Output Power

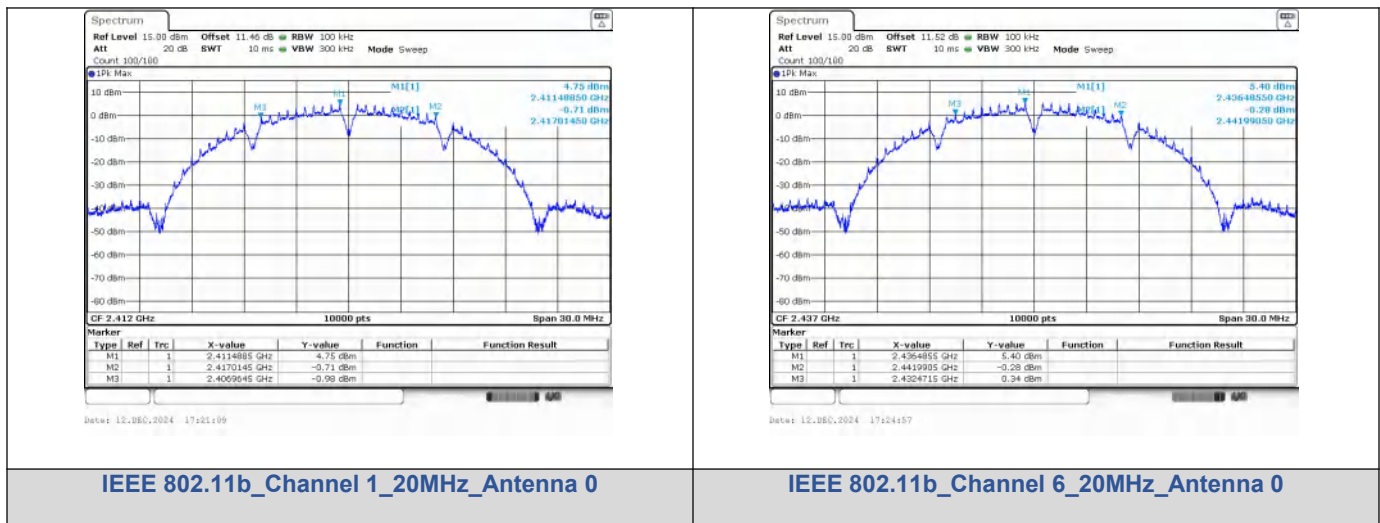
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	17.74	≤30	PASS
	6	17.08	≤30	PASS
	11	17.49	≤30	PASS
IEEE 802.11g	1	16.83	≤30	PASS
	6	16.15	≤30	PASS
	11	16.66	≤30	PASS
IEEE 802.11n_20	1	16.77	≤30	PASS
	6	16.65	≤30	PASS
	11	16.63	≤30	PASS
IEEE 802.11n_40	3	16.57	≤30	PASS
	6	16.99	≤30	PASS
	9	16.57	≤30	PASS

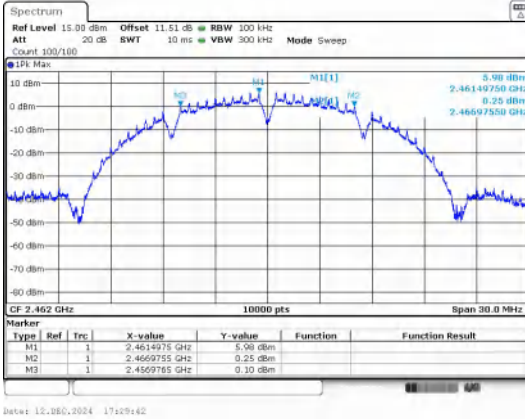
6dB Bandwidth

Test Result

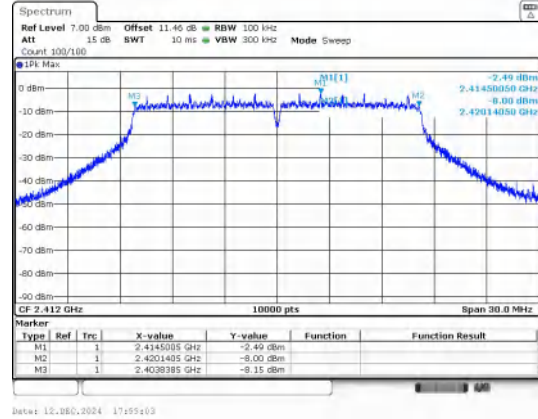
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	10.05	≥0.5	PASS
	6		2437	9.520		PASS
	11		2462	10.00		PASS
IEEE 802.11g	1		2412	16.30		PASS
	6		2437	16.30		PASS
	11		2462	16.29		PASS
IEEE 802.11n_20	1		2412	17.52		PASS
	6		2437	17.50		PASS
	11		2462	17.50		PASS
IEEE 802.11n_40	3		2422	35.10		PASS
	6		2437	35.11		PASS
	9		2452	35.05		PASS

Test Graphs

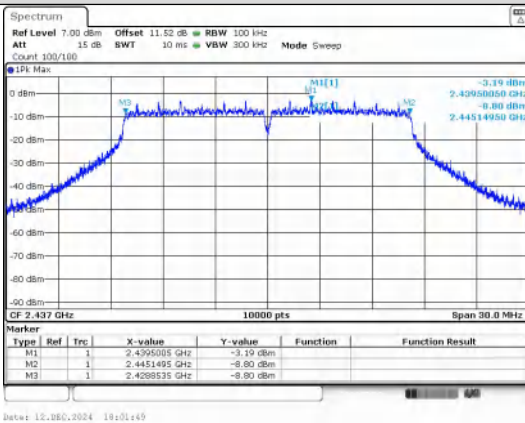




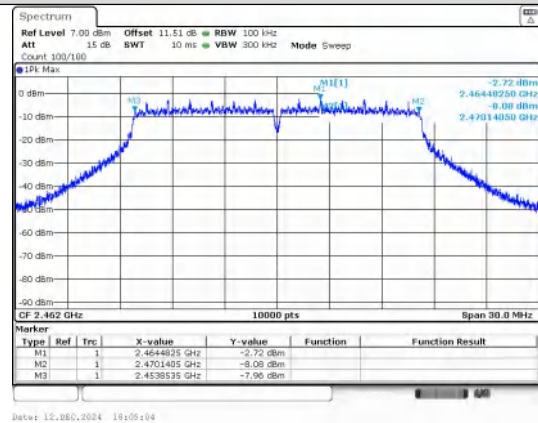
IEEE 802.11b_Channel 11_20MHz_Antenna 0



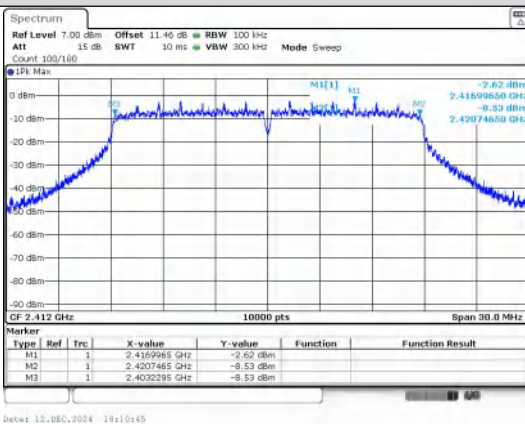
IEEE 802.11g_Channel 1_20MHz_Antenna 0



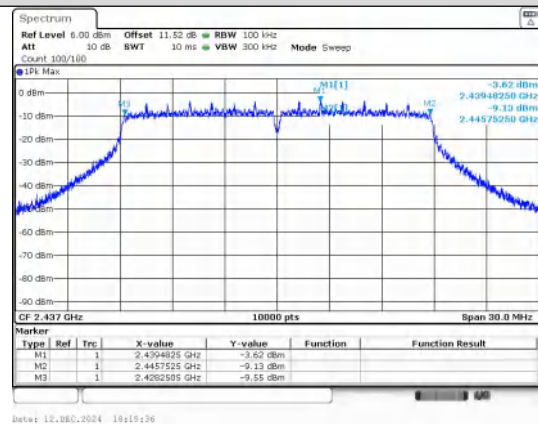
IEEE 802.11g_Channel 6_20MHz_Antenna 0



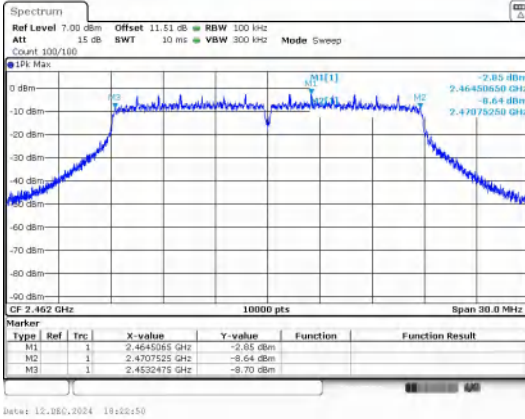
IEEE 802.11g_Channel 11_20MHz_Antenna 0



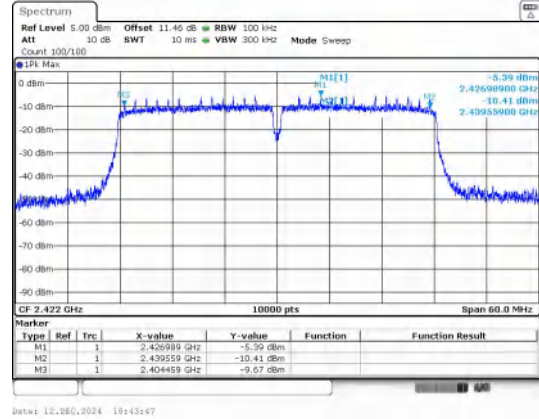
IEEE 802.11n_Channel 1_20MHz_Antenna 0



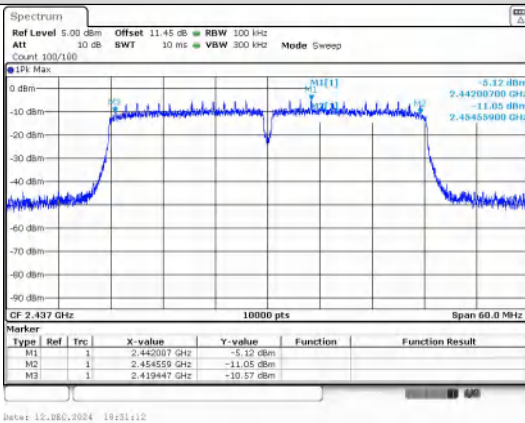
IEEE 802.11n_Channel 6_20MHz_Antenna 0



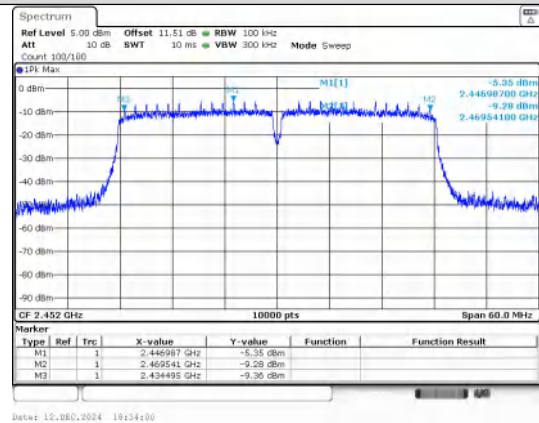
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



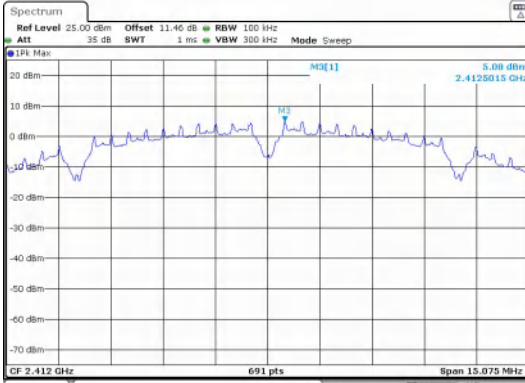
IEEE 802.11n_Channel 9_40MHz_Antenna 0

Conducted Out Of Band Emission

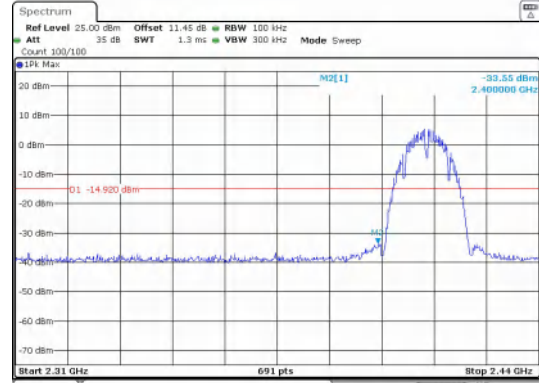
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2400.00	-33.550	-14.92	-18.630	PASS
			4823.82	-42.693	-14.92	-27.773	PASS
	6		6944.61	-42.792	-14.66	-28.132	PASS
	11		2483.50	-37.600	-14.14	-23.460	PASS
			6946.27	-42.999	-14.14	-28.859	PASS
IEEE 802.11g	1		2400.00	-35.590	-22.49	-13.100	PASS
			6920.47	-43.300	-22.49	-20.810	PASS
	6		6894.67	-42.179	-23.25	-18.929	PASS
	11		1779.98	-40.133	-22.74	-17.393	PASS
			2483.50	-38.760	-22.74	-16.020	PASS
IEEE 802.11n_20	1		2400.00	-35.010	-22.38	-12.630	PASS
			5904.19	-42.625	-22.38	-20.245	PASS
	6		6957.93	-43.189	-23.45	-19.739	PASS
	11		2483.50	-38.660	-22.61	-16.050	PASS
			22085.6	-43.693	-22.61	-21.083	PASS
IEEE 802.11n_40	3		2391.93	-36.642	-25.23	-11.412	PASS
			2400.00	-38.780	-25.23	-13.550	PASS
			6294.60	-43.178	-25.23	-17.948	PASS
	6		6947.11	-43.353	-24.8	-18.553	PASS
	9		2483.50	-37.190	-25.27	-11.920	PASS
			5927.50	-43.178	-25.27	-17.908	PASS

Test Graphs



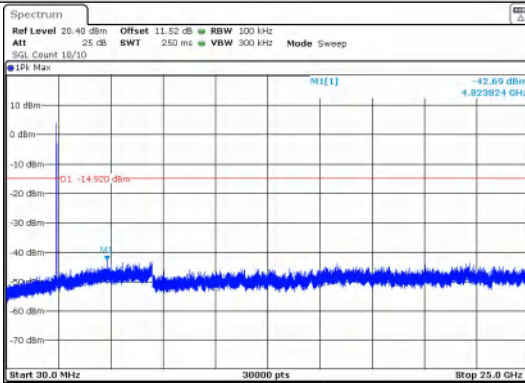
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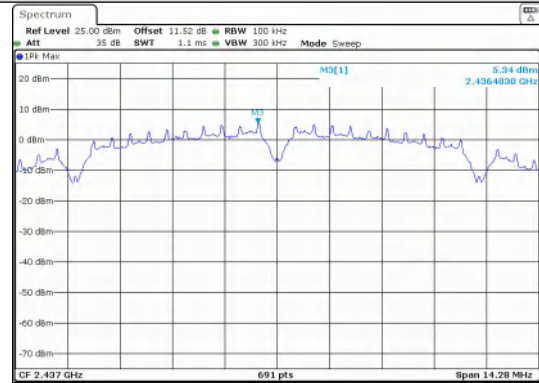
Date: 12, DEC, 2024 17:22:21

In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



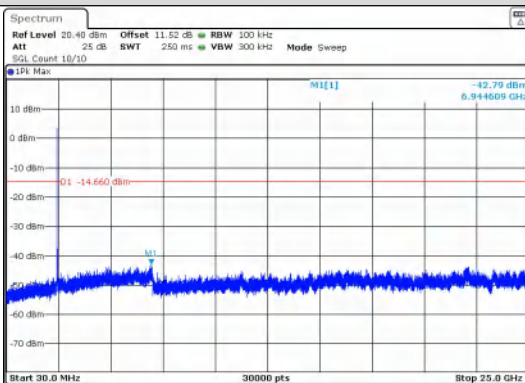
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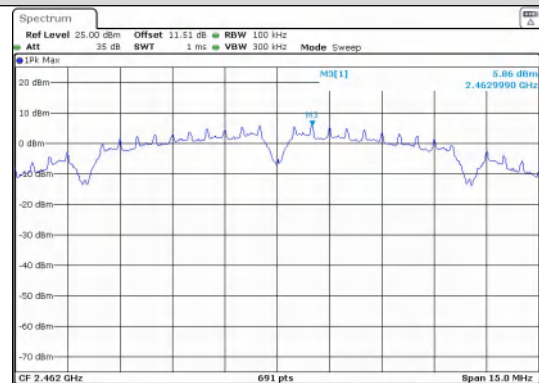
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30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



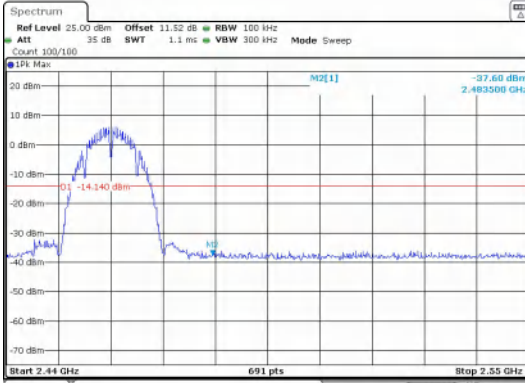
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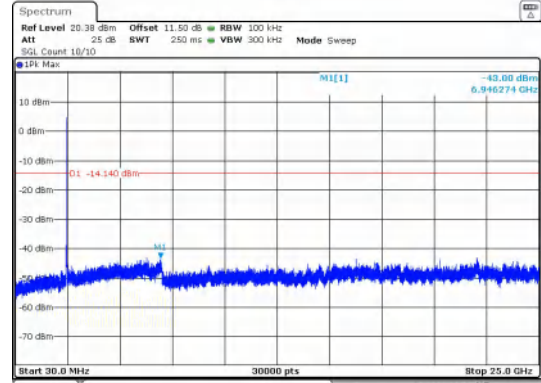
Date: 12, DEC, 2024 17:30:35

30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



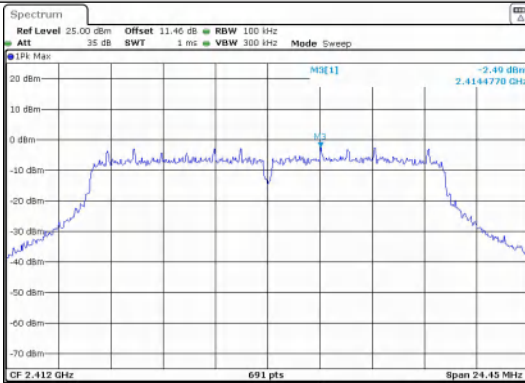
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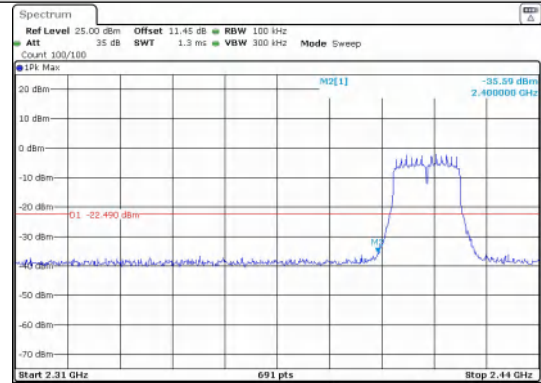
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Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



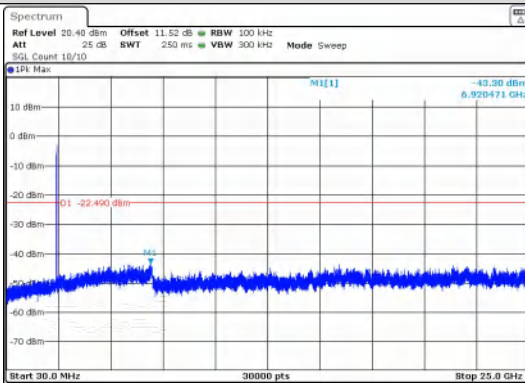
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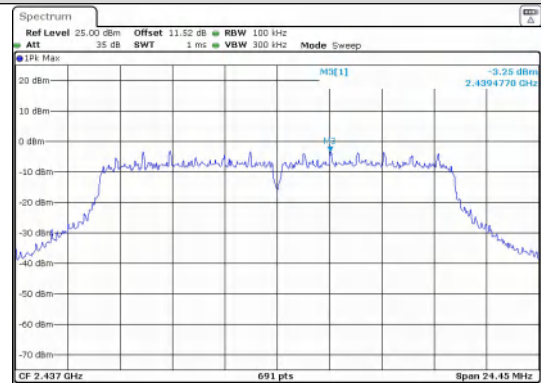
Date: 12, DEC, 2024 17:56:17

In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



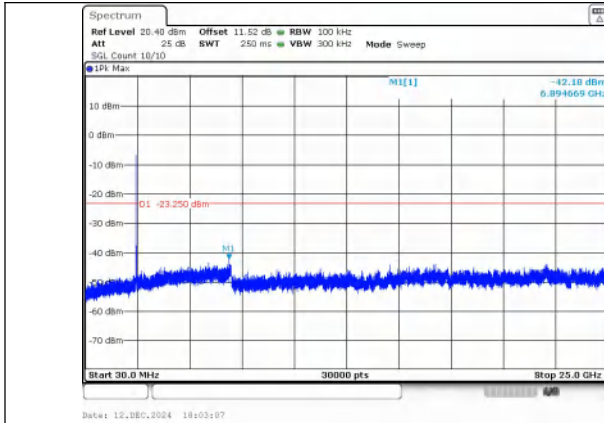
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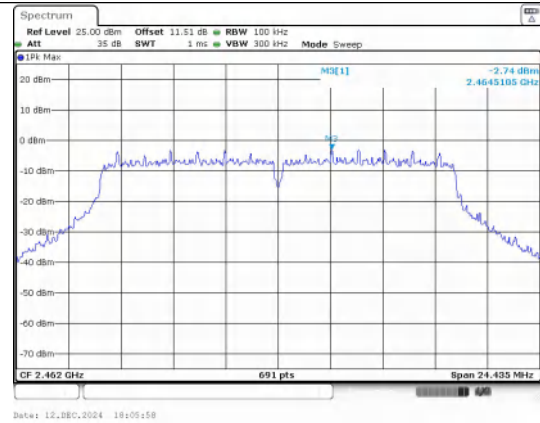
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IEEE 802.11g_Channel 1_20MHz_Antenna 0

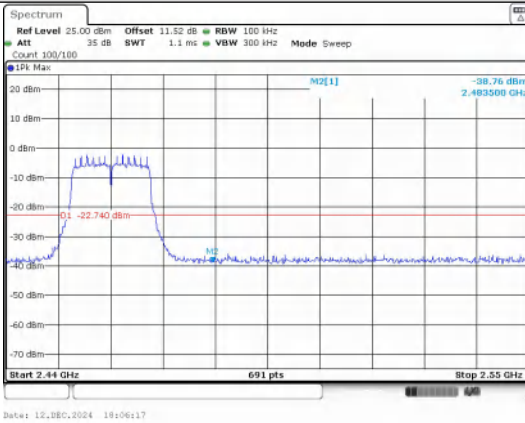
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



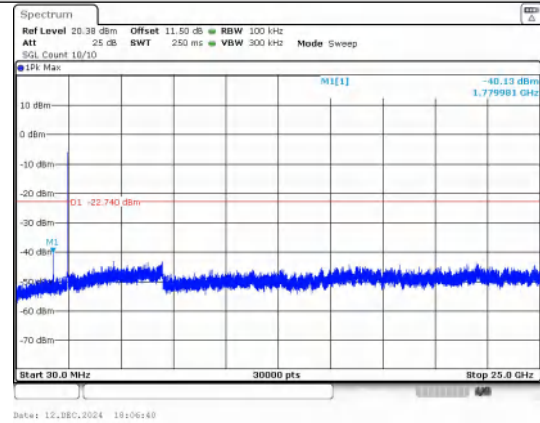
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



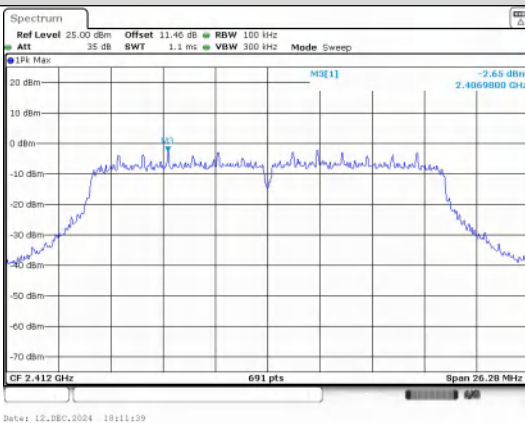
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



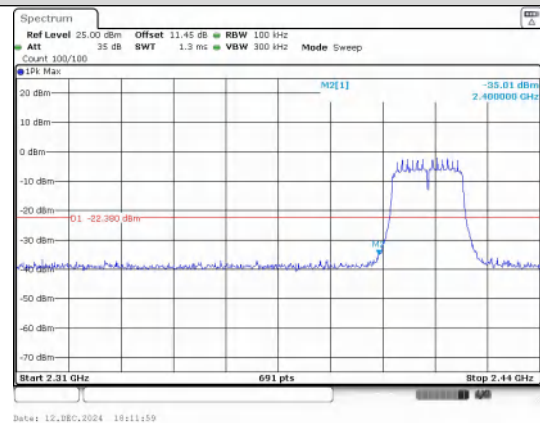
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



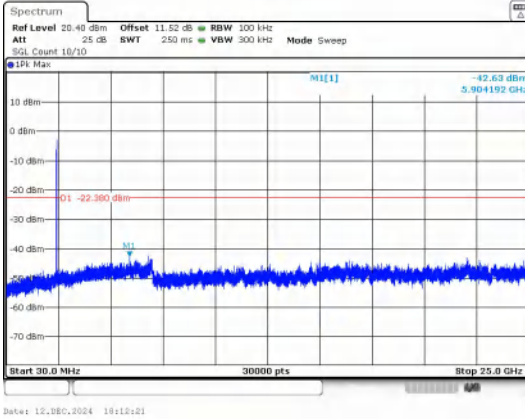
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



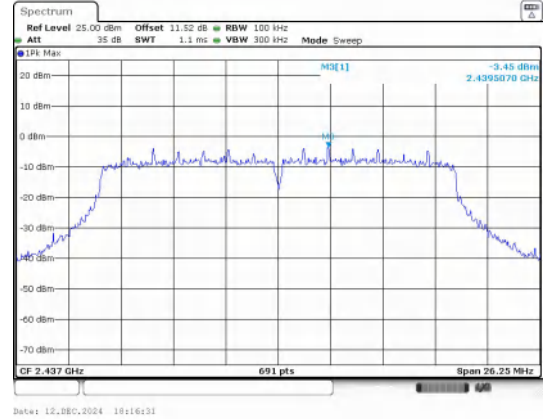
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



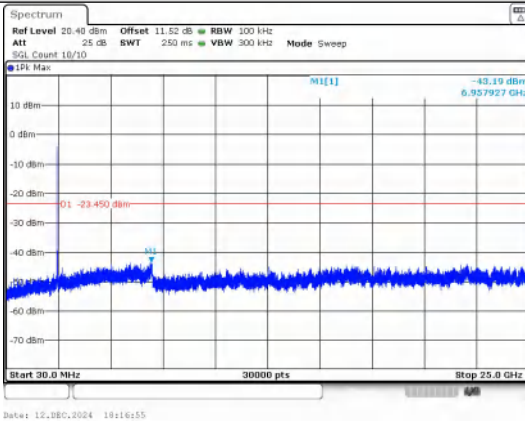
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



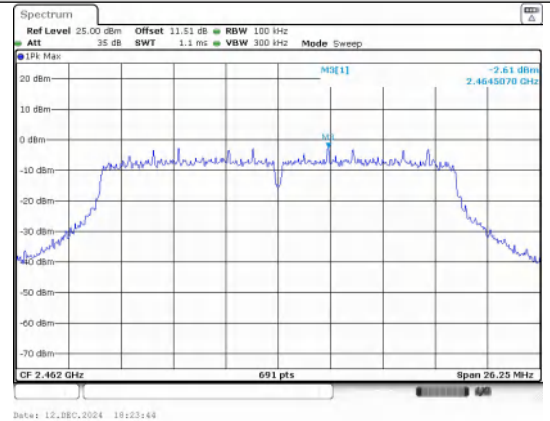
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



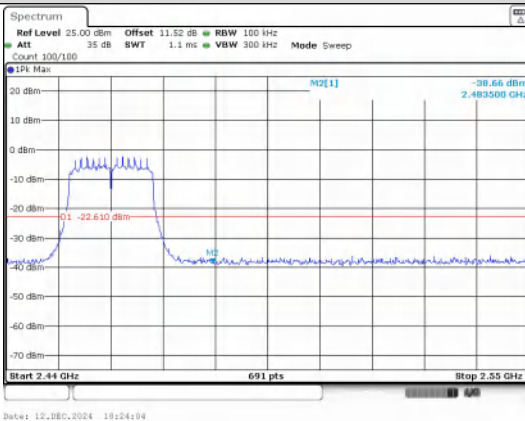
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



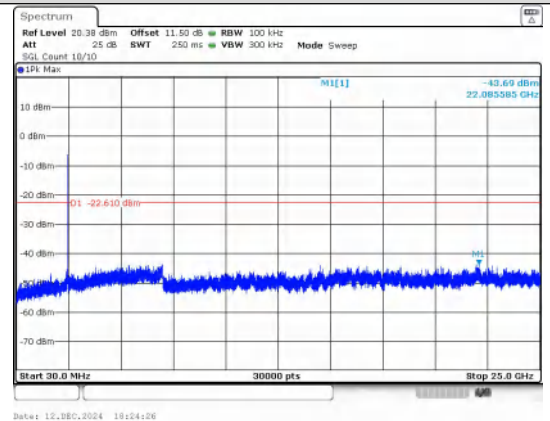
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



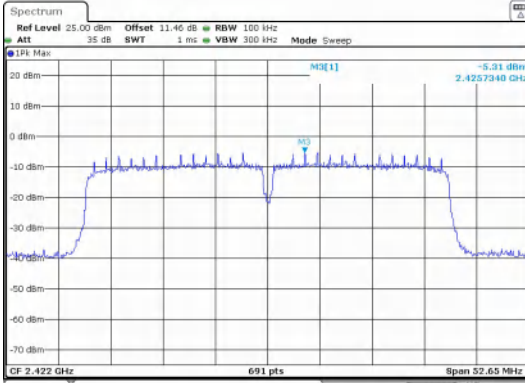
In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



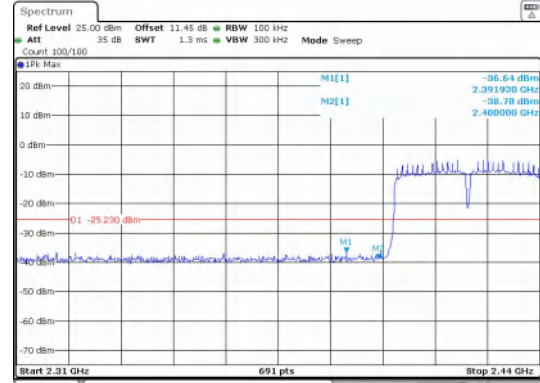
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



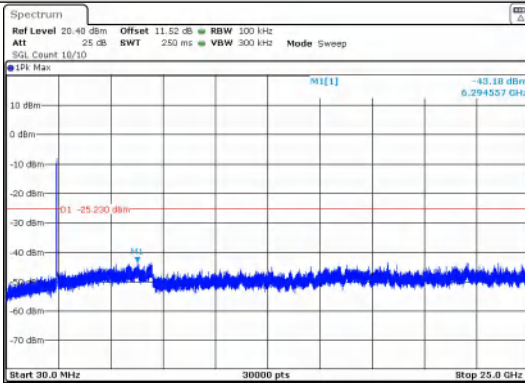
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



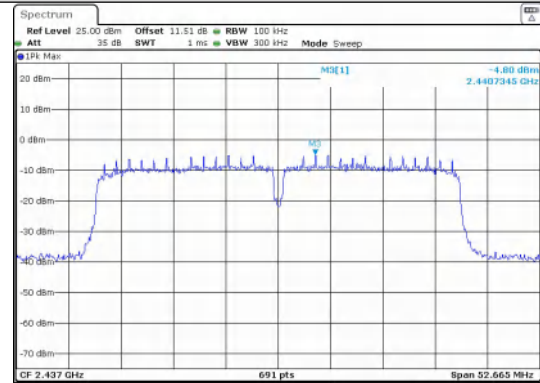
In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



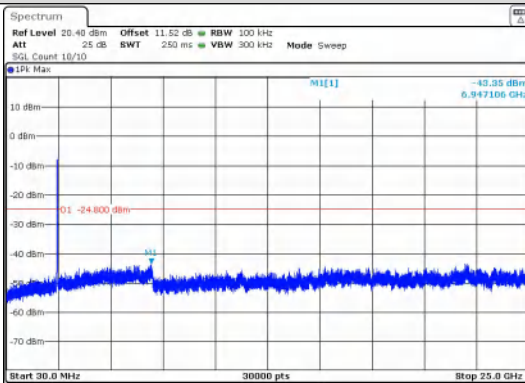
Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



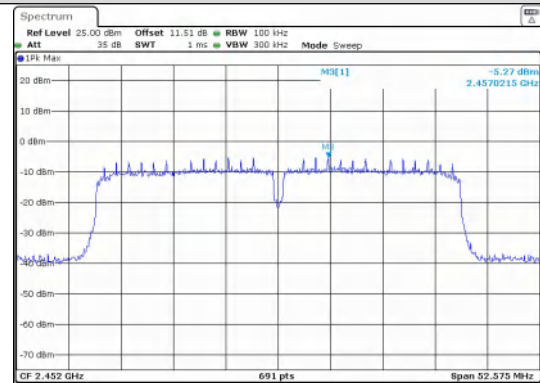
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 3_40MHz_Antenna 0



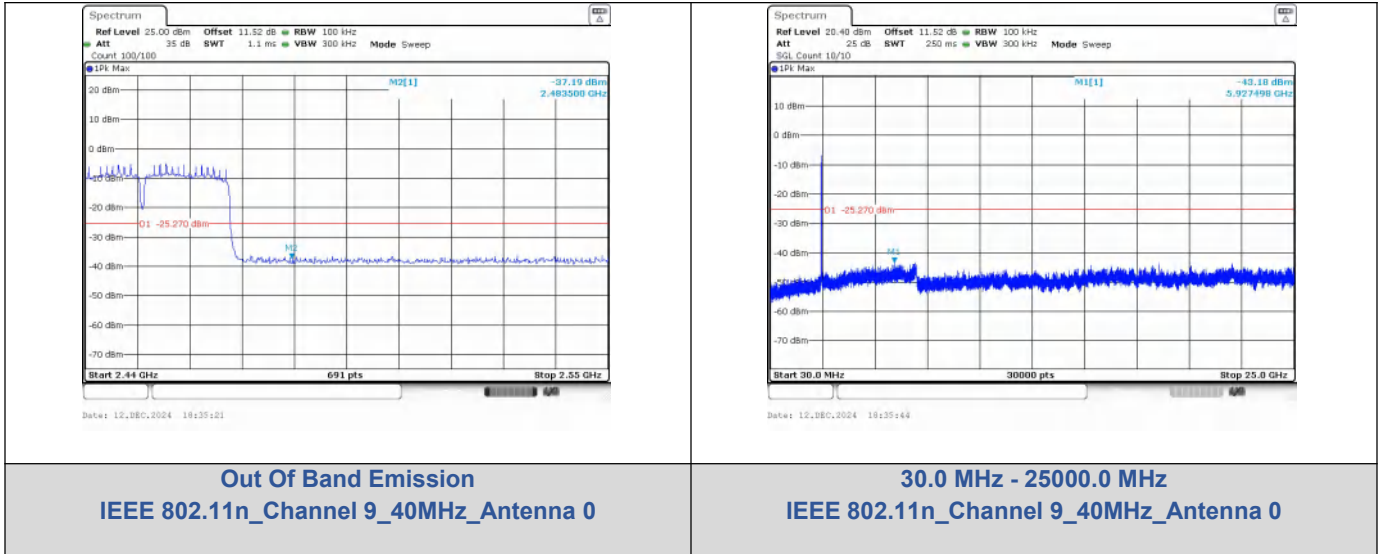
In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_40MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0



-----End of the report-----