

TEST REPORT

Reference No...... : WTH24X01005049W
FCC ID : 2A4J6-CR-8
Applicant : Shenzhen Anhao Electronic Technology Co., Ltd
Address : No. 1003, Kaiyue Building, No. 8 Yangxia Avenue, Xinqiao Community,
Bao'an District, Shenzhen, China
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : Multifunctional Food Processor
Model No...... : CR-8
Standards : FCC Part 15.247
Date of Receipt sample : 2024-01-08
Date of Test..... : 2024-01-08 to 2024-01-15
Date of Issue : 2024-01-15
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.

Prepared By:

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Report version

Version No.	Date of issue	Description
Rev.00	2024-01-15	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Multifunctional Food Processor
Trade Name:	/
Model No.:	CR-8
Adding Model(s):	/
Rated Voltage:	AC120V
Power Adapter Model:	/
<i>Note: The test data is gathered from a production sample provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20) 2422-2452MHz for 802.11n(HT40)
RF Output Power:	18.76dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Quantity of Channels:	11 for 802.11b/g/n(HT20); 7 for 802.11n(HT40)
Channel Separation:	5MHz
Type of Antenna:	FPC Antenna
Antenna Gain:	1.32dBi
<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 results 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, KDB 558074 D01 15.247 Meas Guidance v05r02.

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, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11b	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM2	802.11g	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM3	802.11n-HT20	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM4	802.11n-HT40	Low:2422MHz, Middle:2437MHz,High:2452MHz

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
AC Cable	1.2	Unshielded	Without Ferrite

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

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
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	2023-02-25	2024-02-24
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2023-02-25	2024-02-24
WTXE1084A 1001	Spectrum Analyzer	Agilent	N9020A	MY543205 48	2023-02-25	2024-02-24
WTXE1004A 1-001	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2023-02-25	2024-02-24
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2023-02-25	2024-02-24
WTXE1007A 1001	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/00 5	2023-02-25	2024-02-24
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2023-02-25	2024-02-24
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2023-03-20	2026-03-19
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2023-02-25	2024-02-24
WTXE1007A 1001	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/00 5	2023-02-25	2024-02-24
WTXE1065A 1001	Amplifier	C&D	PAP-1G18	14918	2023-02-25	2024-02-24
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2021-03-19	2024-03-18
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2021-03-19	2024-03-18
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2023-02-25	2024-02-24
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2024-04-08
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19

WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2023-02-25	2024-02-24
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2023-02-25	2024-02-24
☒ Chamber C:Below 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2023-02-25	2024-02-24
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2024-05-27
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2024-03-19
WTXE1007A 1002	Amplifier	HP	8447F	2944A038 69	2023-02-25	2024-02-24
☒ Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2023-02-25	2024-02-24
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2023-02-25	2024-02-24
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2021-03-19	2024-03-18
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2023-02-25	2024-02-24
☒ Conducted Room 1#						
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2023-02-25	2024-02-24
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2023-02-25	2024-02-24
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2023-02-25	2024-02-24
☐ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2023-02-25	2024-02-24
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2023-02-25	2024-02-24

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission Room 1#)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission Room 2#)*	SKET	EMC-I	V2.0

*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
§15.247(e)	Power Spectral Density	Compliant
§15.247(a)(2)	DTS Bandwidth	Compliant
§15.247(b)(3)	RF Output Power	Compliant
§15.209(a)	Radiated Emission	Compliant
§15.247(d)	Band Edge (Out of Band Emissions)	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

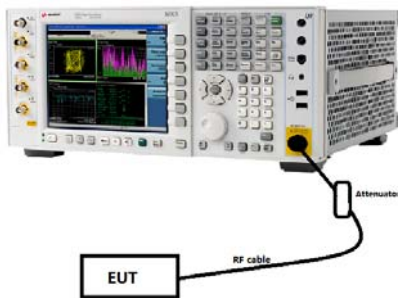
This product has an FPC antenna, fulfill the requirement of this section.

4. Power Spectral Density

4.1 Standard Applicable

According to 15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

4.2 Test Setup Block Diagram



4.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$.
- Set VBW $\geq 3 \times \text{RBW}$.
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
- Sweep time = auto couple.
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

4.4 Summary of Test Results/Plots

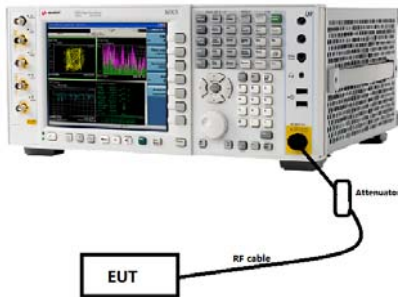
Please refer to Appendix A

5. DTS Bandwidth

5.1 Standard Applicable

According to 15.247(a)(2), systems using digital modulation techniques may operate in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

5.2 Test Setup Block Diagram



5.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2013 Subclause 11.8.1, the test method of DTS Bandwidth as below:

- a) Set RBW = 100kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4 Summary of Test Results/Plots

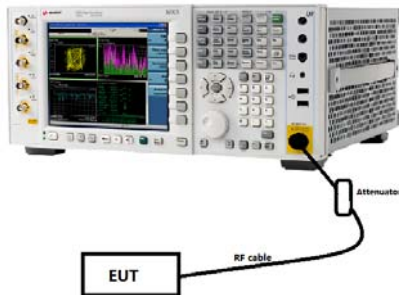
Please refer to Appendix B

6. RF Output Power

6.1 Standard Applicable

According to 15.247(b)(3), for systems using digital modulation in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands: 1 Watt.

6.2 Test Setup Block Diagram



6.3 Test Procedure

According to the KDB-558074 D01 v05r02 Sub clause 8.3.2.2 and ANSI C63.10-2013 Sub clause 11.9.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth.

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1MHz.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle $< 98\%$, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

6.4 Summary of Test Results/Plots

Please refer to Appendix C

7. Field Strength of Spurious Emissions

7.1 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).

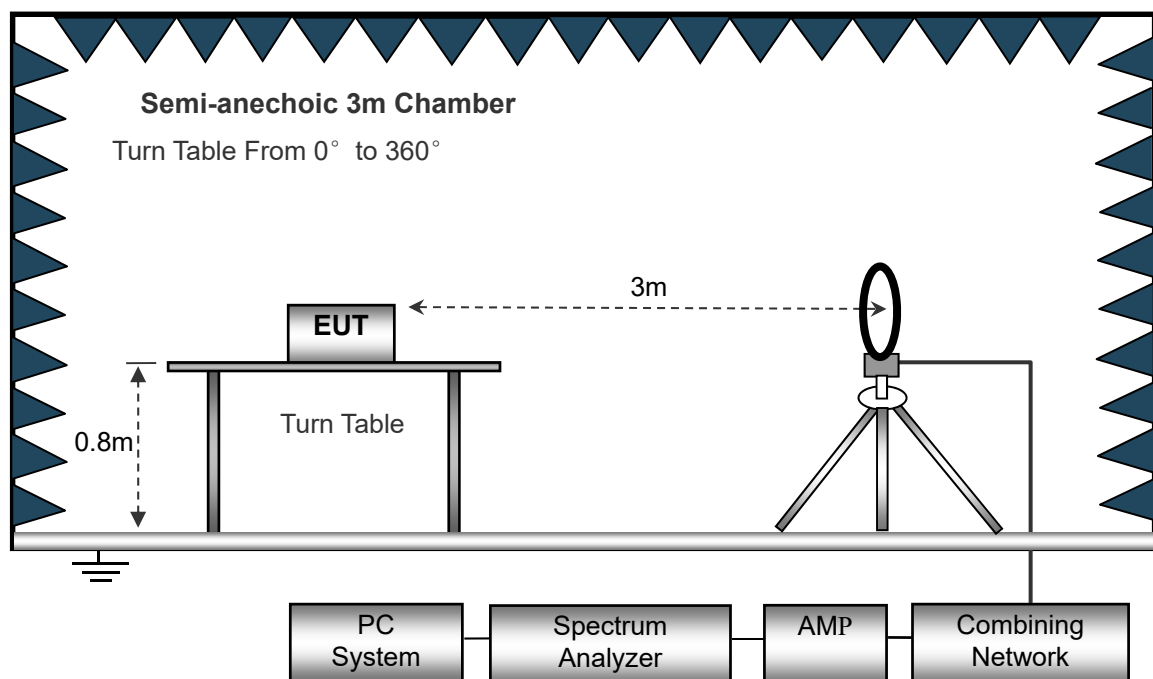
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

7.2 Test Procedure

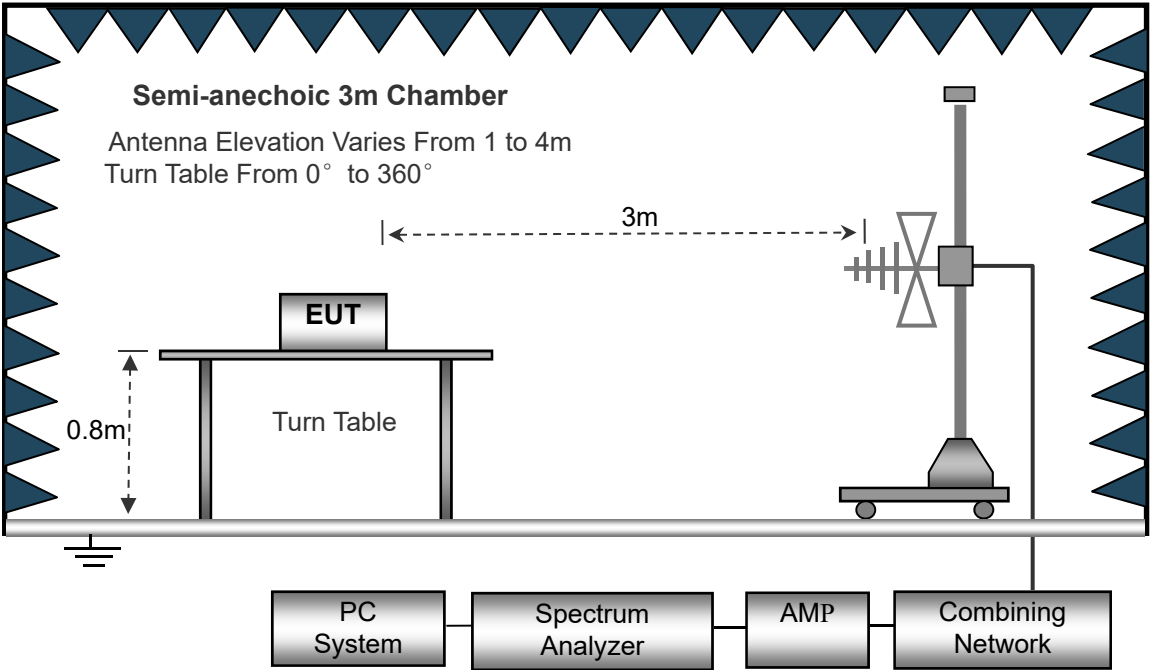
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

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.

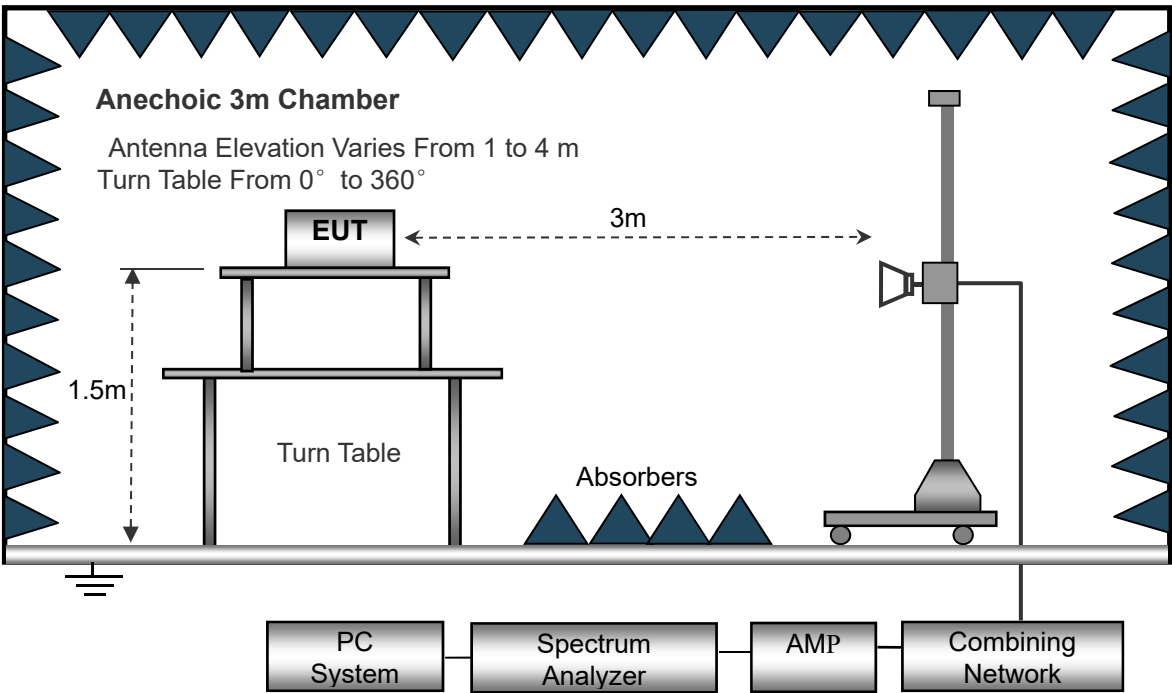
The test setup for emission measurement below 30MHz.



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

7.3 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:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

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:

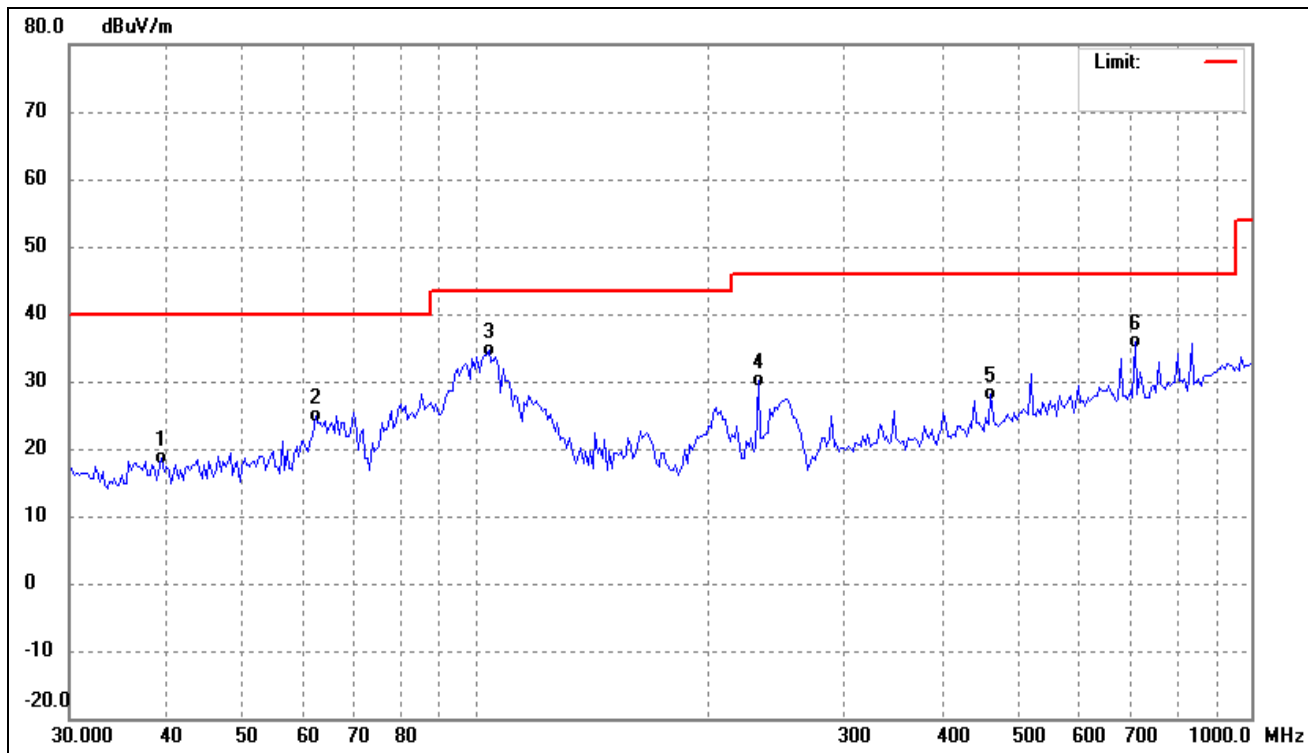
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

7.4 Summary of Test Results/Plots

*Note: 1.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(802.11b_11Mbps) is recorded in this report.*

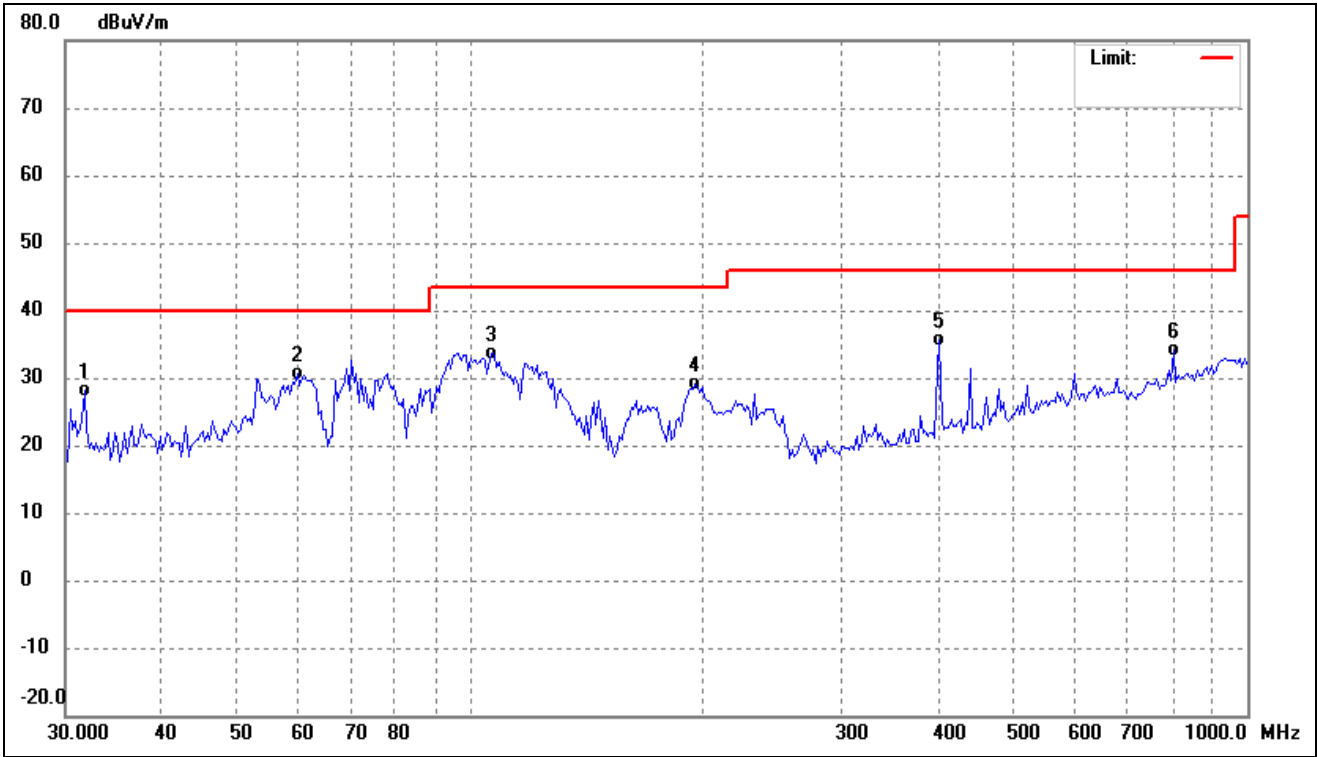
➤ Spurious Emissions Below 1GHz

802.11b_11Mbps			
Test Channel	Low	Polarity:	Horizontal



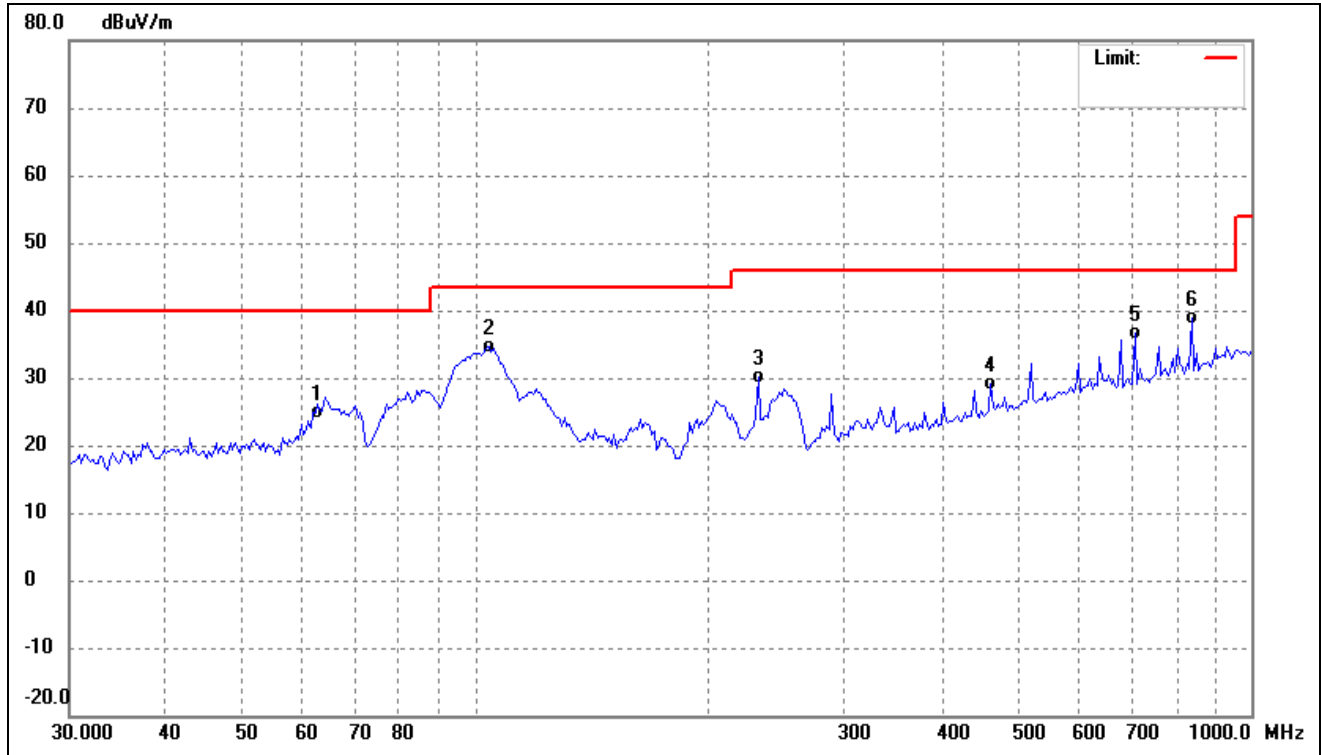
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	39.4588	27.28	-8.60	18.68	40.00	-21.32	-	-	QP
2	62.3038	34.28	-9.35	24.93	40.00	-15.07	-	-	QP
3	104.0640	46.66	-12.12	34.54	43.50	-8.96	-	-	QP
4	231.8531	41.60	-11.43	30.17	46.00	-15.83	-	-	QP
5	461.6313	32.55	-4.42	28.13	46.00	-17.87	-	-	QP
6	708.6941	36.71	-0.94	35.77	46.00	-10.23	-	-	QP

802.11b_11Mbps			
Test Channel	Low	Polarity:	Vertical



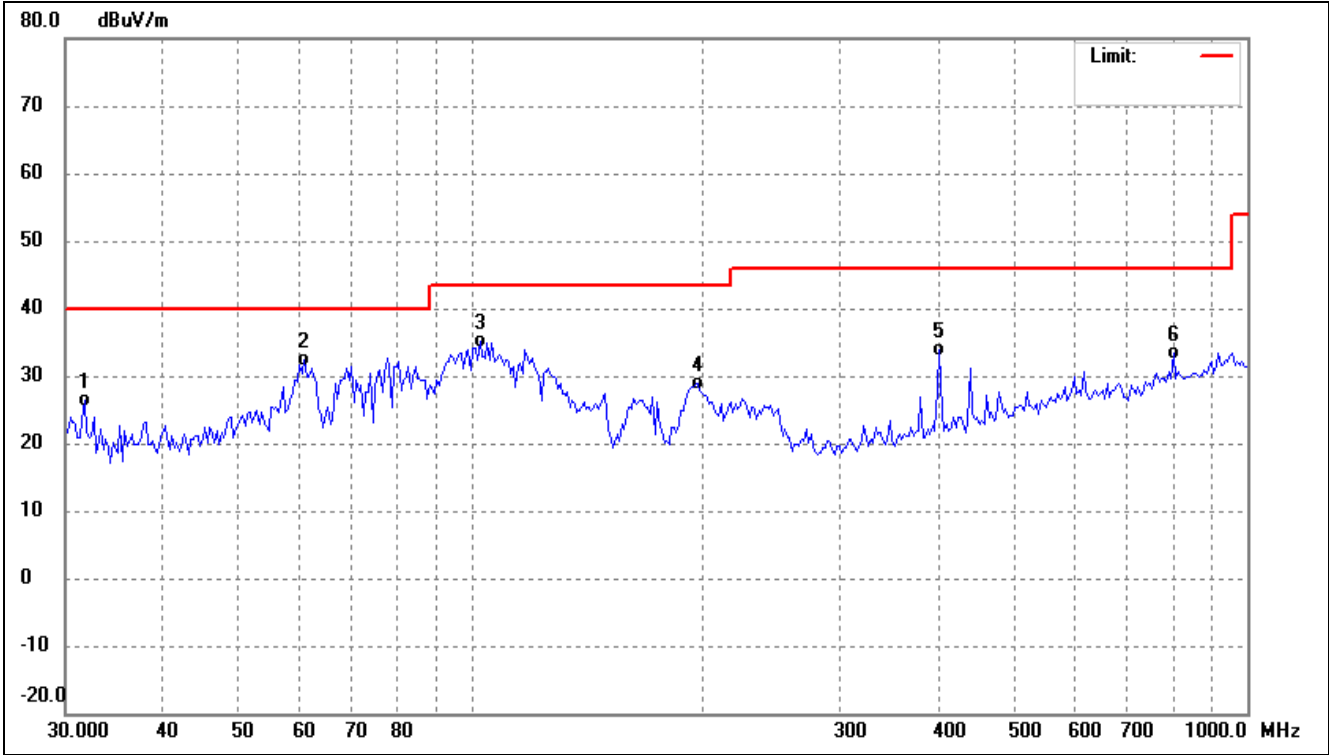
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	31.7348	38.05	-9.98	28.07	40.00	-11.93	-	-	QP
2	59.7315	39.47	-8.92	30.55	40.00	-9.45	-	-	QP
3	106.2812	45.65	-11.91	33.74	43.50	-9.76	-	-	QP
4	194.4985	40.73	-11.67	29.06	43.50	-14.44	-	-	QP
5	401.1050	41.53	-5.93	35.60	46.00	-10.40	-	-	QP
6	804.2523	33.75	0.34	34.09	46.00	-11.91	-	-	QP

802.11b_11Mbps			
Test Channel	Middle	Polarity:	Horizontal



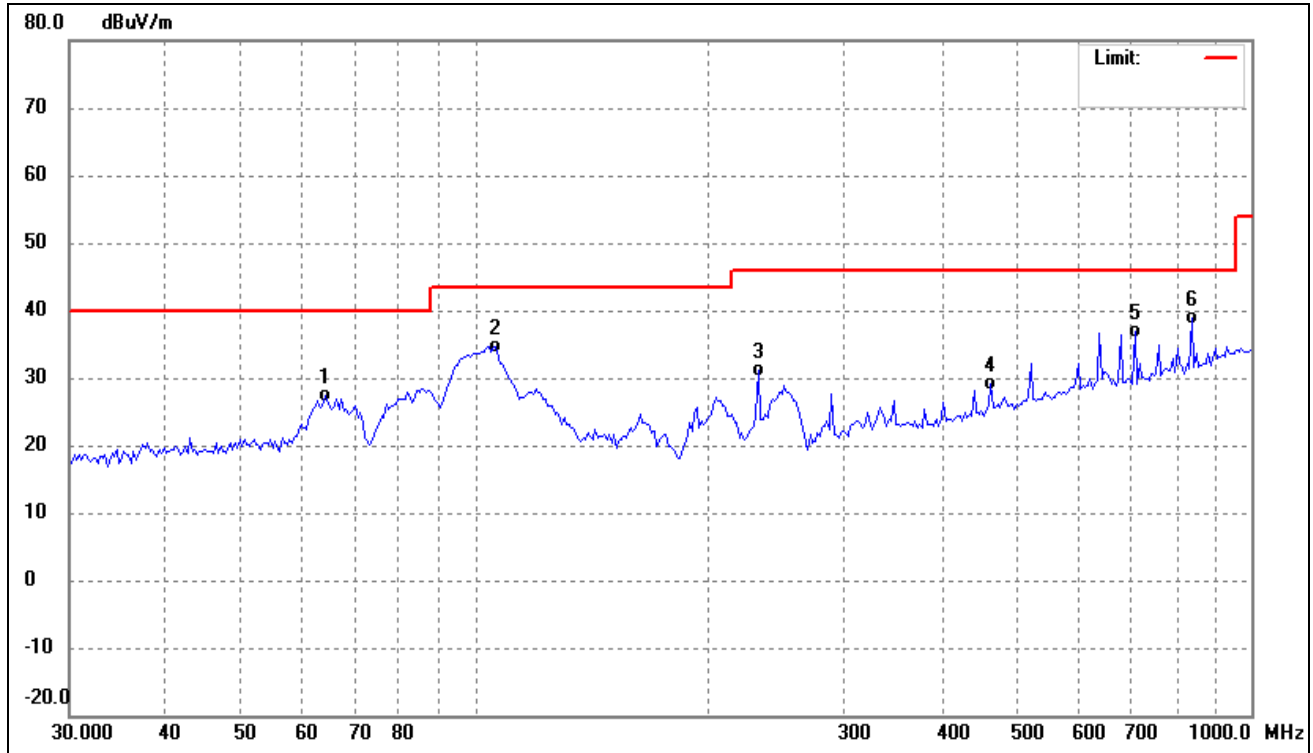
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	62.3038	34.28	-9.35	24.93	40.00	-15.07	-	-	QP
2	104.0640	46.66	-12.12	34.54	43.50	-8.96	-	-	QP
3	231.8531	41.60	-11.43	30.17	46.00	-15.83	-	-	QP
4	461.6313	33.57	-4.42	29.15	46.00	-16.85	-	-	QP
5	708.6941	37.61	-0.94	36.67	46.00	-9.33	-	-	QP
6	838.8870	38.20	0.64	38.84	46.00	-7.16	-	-	QP

802.11b_11Mbps			
Test Channel	Middle	Polarity:	Vertical



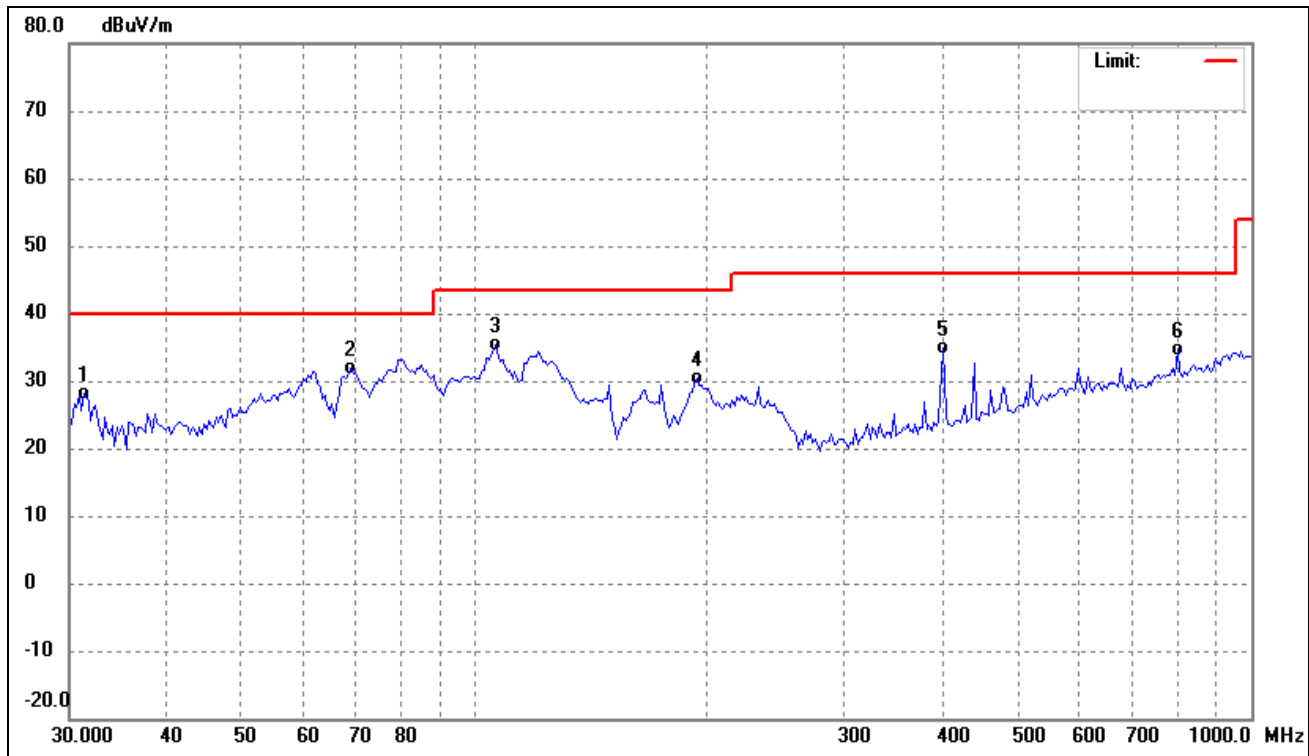
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	31.7348	36.29	-9.98	26.31	40.00	-13.69	-	-	QP
2	61.0041	41.43	-9.11	32.32	40.00	-7.68	-	-	QP
3	102.6117	47.43	-12.25	35.18	43.50	-8.32	-	-	QP
4	195.8701	40.53	-11.75	28.78	43.50	-14.72	-	-	QP
5	401.1050	39.82	-5.93	33.89	46.00	-12.11	-	-	QP
6	804.2523	33.07	0.34	33.41	46.00	-12.59	-	-	QP

802.11b_11Mbps			
Test Channel	High	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	64.0800	37.01	-9.68	27.33	40.00	-12.67	-	-	QP
2	106.2812	46.50	-11.91	34.59	43.50	-8.91	-	-	QP
3	231.8531	42.49	-11.43	31.06	46.00	-14.94	-	-	QP
4	461.6313	33.67	-4.42	29.25	46.00	-16.75	-	-	QP
5	708.6941	37.76	-0.94	36.82	46.00	-9.18	-	-	QP
6	838.8870	38.20	0.64	38.84	46.00	-7.16	-	-	QP

802.11b_11Mbps			
Test Channel	High	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	31.2919	38.14	-10.02	28.12	40.00	-11.88	-	-	QP
2	69.2297	42.59	-10.63	31.96	40.00	-8.04	-	-	QP
3	106.2812	47.26	-11.91	35.35	43.50	-8.15	-	-	QP
4	193.1366	41.97	-11.60	30.37	43.50	-13.13	-	-	QP
5	401.1050	40.92	-5.93	34.99	46.00	-11.01	-	-	QP
6	804.2523	34.27	0.34	34.61	46.00	-11.39	-	-	QP

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
- Test Mode: 802.11b_11Mbps (worst case)

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.00	54.03	-4.50	49.53	74	-24.47	H	PK
4824.00	53.73	-4.50	49.23	54	-4.77	H	AV
7236.00	49.48	1.14	50.62	74	-23.38	H	PK
7236.00	39.81	1.14	40.95	54	-13.05	H	AV
4824.00	54.12	-4.50	49.62	74	-24.38	V	PK
4824.00	51.67	-4.50	47.17	54	-6.83	V	AV
7236.00	47.28	1.14	48.42	74	-25.58	V	PK
7236.00	35.40	1.14	36.54	54	-17.46	V	AV
Middle Channel-2437MHz							
4874.00	55.97	-4.47	51.50	74	-22.50	H	PK
4874.00	53.86	-4.47	49.39	54	-4.61	H	AV
7311.00	49.91	1.47	51.38	74	-22.62	H	PK
7311.00	39.74	1.47	41.21	54	-12.79	H	AV
4874.00	53.61	-4.47	49.14	74	-24.86	V	PK
4874.00	51.37	-4.47	46.90	54	-7.10	V	AV
7311.00	47.81	1.47	49.28	74	-24.72	V	PK
7311.00	36.87	1.47	38.34	54	-15.66	V	AV
High Channel-2462MHz							
4924.00	54.67	-4.44	50.23	74	-23.77	H	PK
4924.00	53.28	-4.44	48.84	54	-5.16	H	AV
7386.00	51.08	1.79	52.87	74	-21.13	H	PK
7386.00	39.67	1.79	41.46	54	-12.54	H	AV
4924.00	52.92	-4.44	48.48	74	-25.52	V	PK
4924.00	51.88	-4.44	47.44	54	-6.56	V	AV
7386.00	46.88	1.79	48.67	74	-25.33	V	PK
7440.00	36.96	1.79	38.75	54	-15.25	V	AV

Note: 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.

8. Out of Band Emissions

8.1 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).

8.2 Test Procedure

According to the KDB 558074D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2013 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those 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 bandedge measurements.

B. Antenna-port conducted measurements

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9.
- b) VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

Table 9—RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1000 MHz	100 kHz to 120 kHz
>1000 MHz	1 MHz

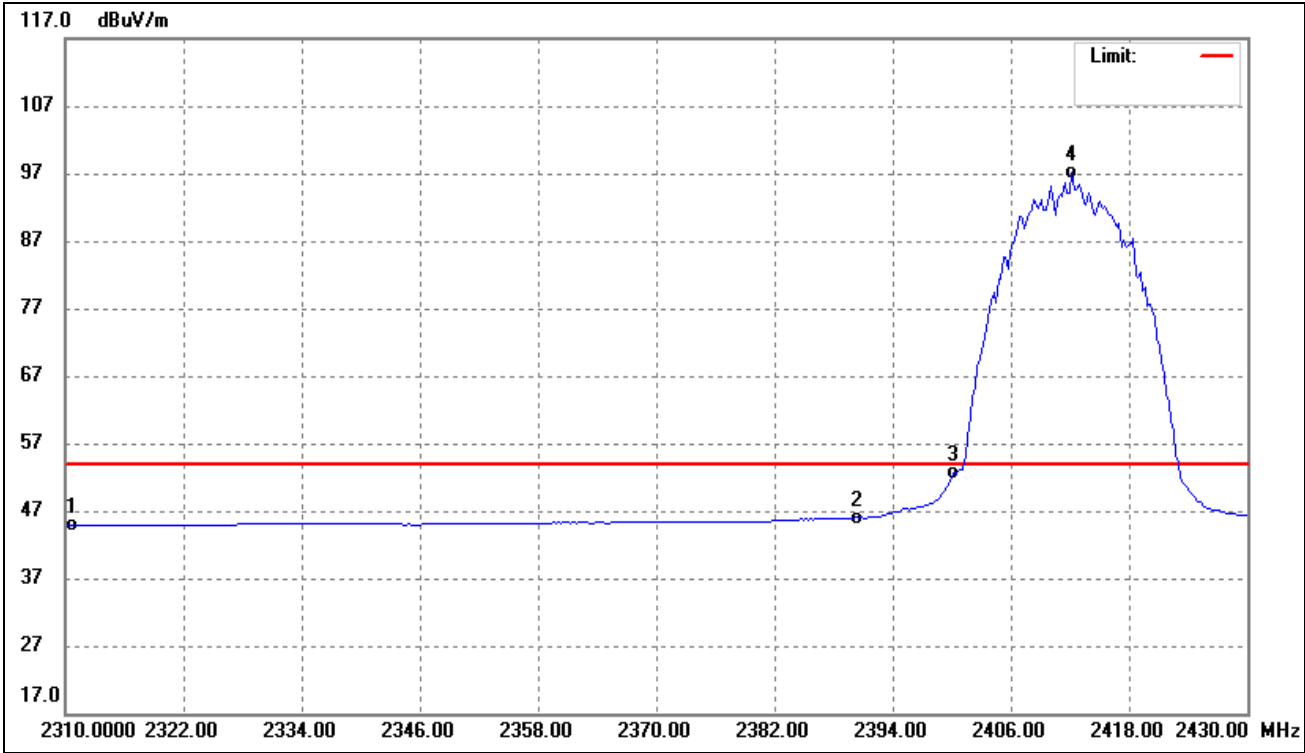
If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

8.3 Summary of Test Results/Plots

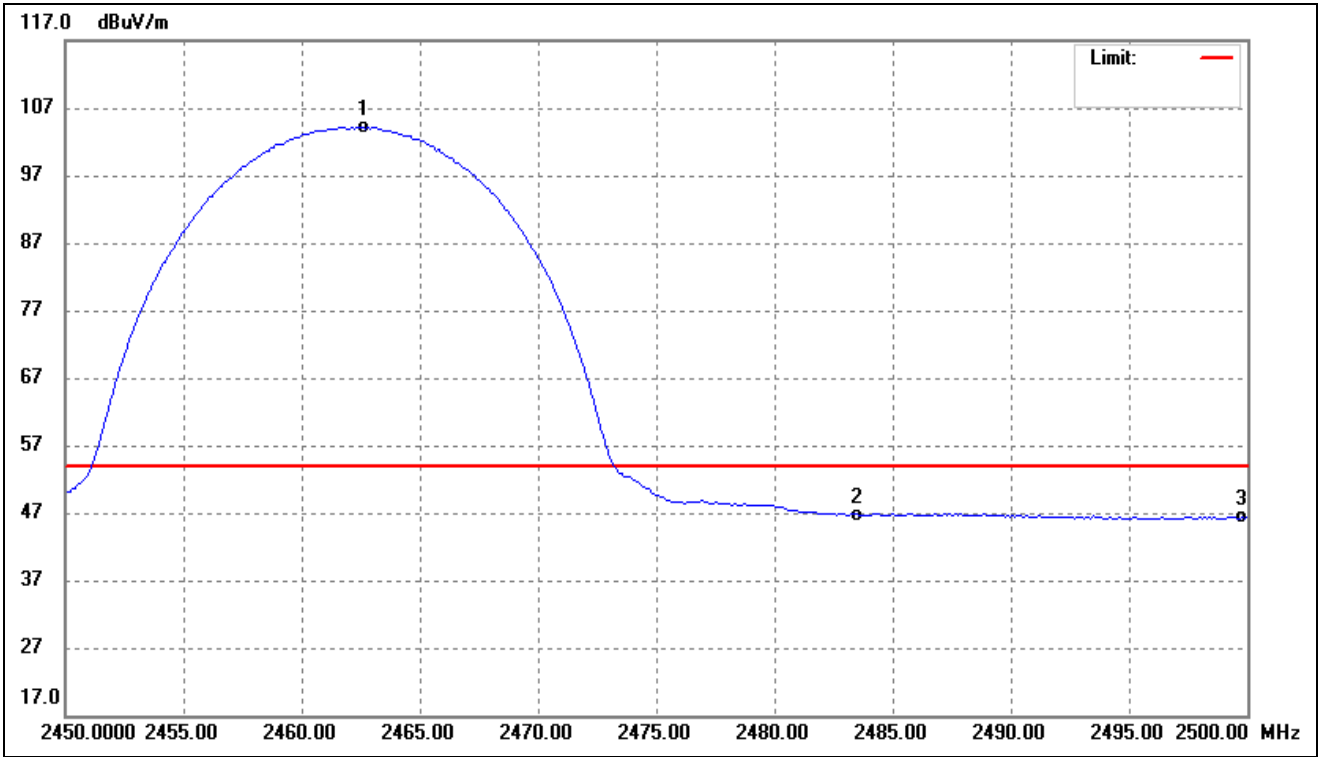
➤ Radiated test

802.11b_11Mbps			
Test Channel	Low	Polarity:	Horizontal(worst case)



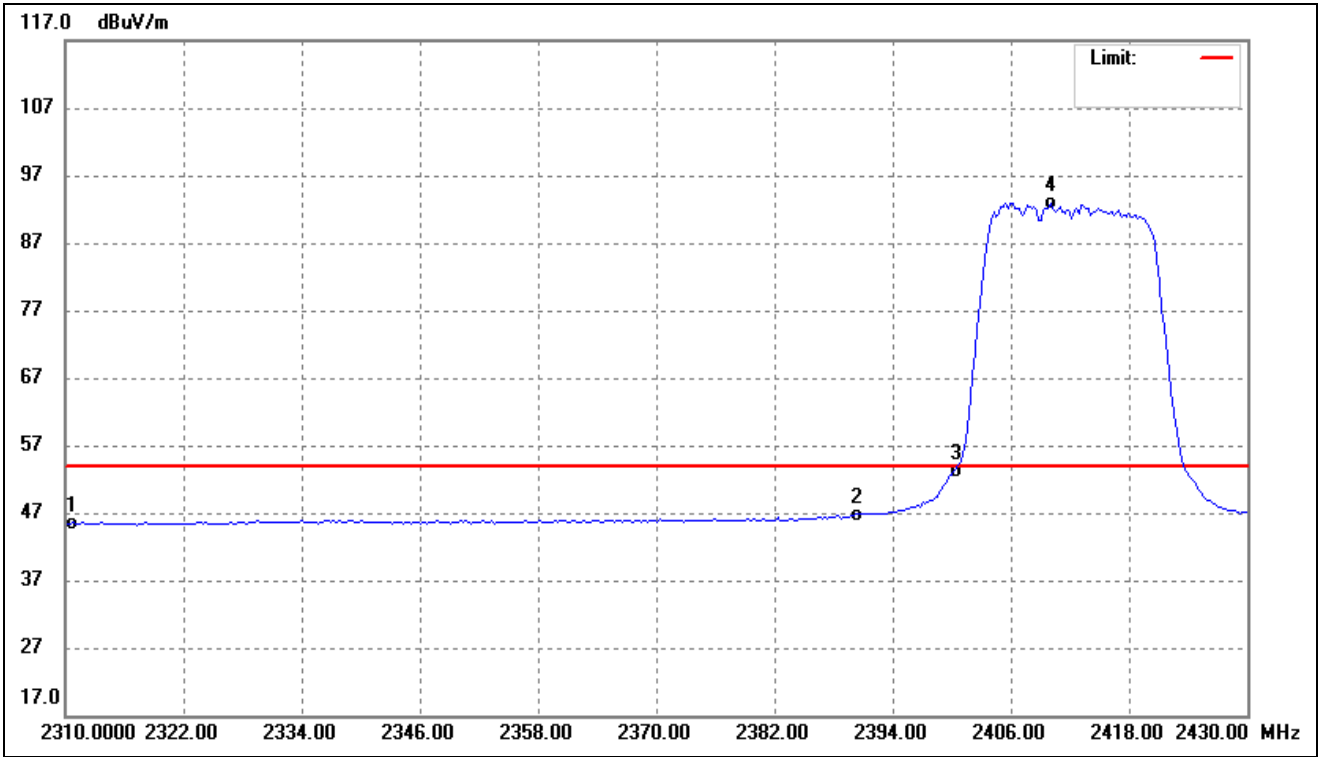
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	43.83	0.98	44.81	54.00	-9.19	Average Detector
	2310.000	57.56	0.98	58.54	74.00	-15.46	Peak Detector
2	2390.000	44.86	1.13	45.99	54.00	-8.01	Average Detector
	2390.000	60.23	1.13	61.36	74.00	-12.64	Peak Detector
3	2400.000	51.45	1.15	52.60	54.00	-1.40	Average Detector
4	2412.204	95.83	1.19	97.02	/	/	Average Detector
	2411.964	112.20	1.19	113.39	/	/	Peak Detector

802.11b_11Mbps			
Test Channel	High	Polarity:	Horizontal(worst case)



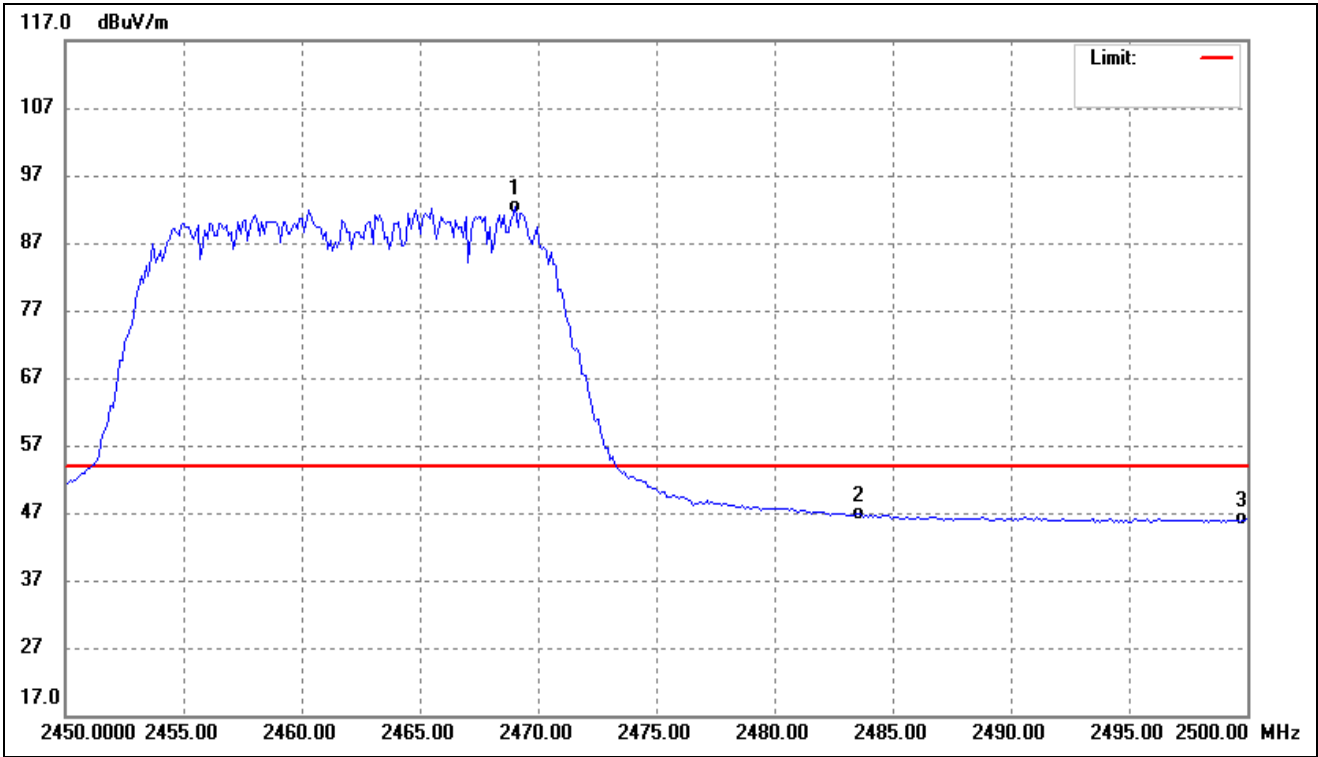
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.625	102.89	1.28	104.17	/	/	Average Detector
	2461.423	111.74	1.28	113.02	/	/	Peak Detector
2	2483.500	45.27	1.32	46.59	54.00	-7.41	Average Detector
	2483.500	59.07	1.32	60.39	74.00	-13.61	Peak Detector
3	2500.000	44.95	1.35	46.30	54.00	-7.70	Average Detector
	2500.000	56.63	1.35	57.98	74.00	-16.02	Peak Detector

802.11g_54Mbps			
Test Channel	Low	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	44.32	0.98	45.30	54.00	-8.70	Average Detector
	2310.000	56.88	0.98	57.86	74.00	-16.14	Peak Detector
2	2390.000	45.41	1.13	46.54	54.00	-7.46	Average Detector
	2390.000	58.39	1.13	59.52	74.00	-14.48	Peak Detector
3	2400.000	51.96	1.15	53.11	54.00	-0.89	Average Detector
4	2410.040	91.73	1.18	92.91	/	/	Average Detector
	2404.990	105.57	1.16	106.73	/	/	Peak Detector

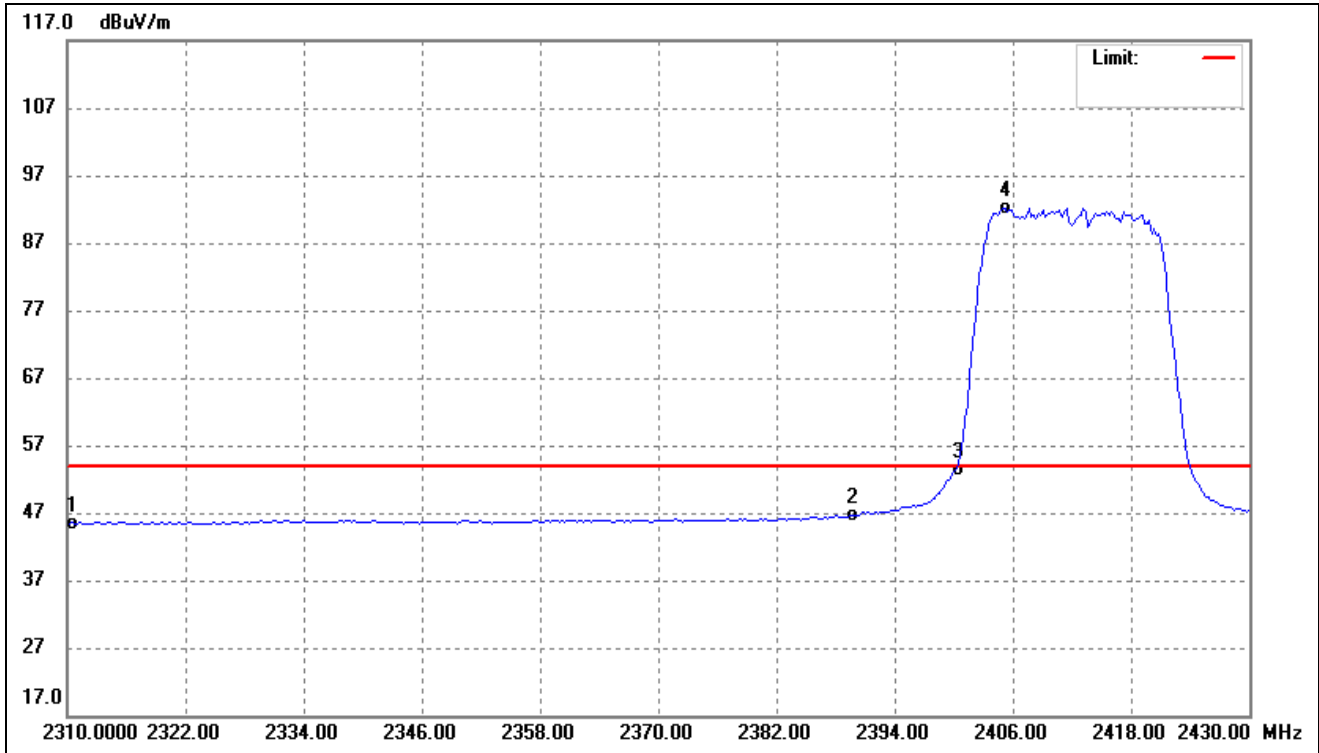
802.11g_54Mbps			
Test Channel	High	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2469.038	91.17	1.29	92.46	/	/	Average Detector
	2465.832	105.28	1.27	106.55	/	/	Peak Detector
2	2483.500	45.49	1.32	46.81	54.00	-7.19	Average Detector
	2483.500	58.95	1.32	60.27	74.00	-13.73	Peak Detector
3	2500.000	44.68	1.35	46.03	54.00	-7.97	Average Detector
	2500.000	56.46	1.35	57.81	74.00	-16.19	Peak Detector

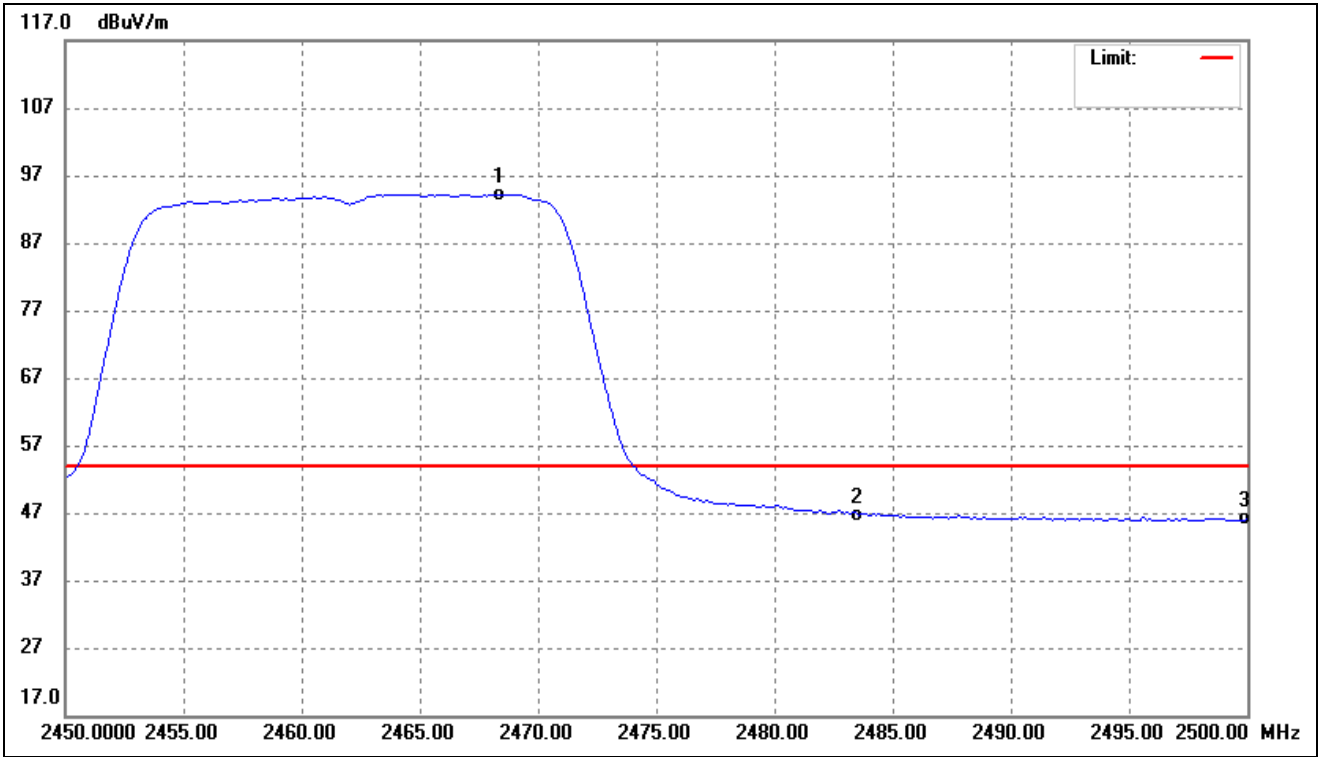
802.11n-HT20_MCS7

Test Channel	Low	Polarity:	Horizontal(worst case)
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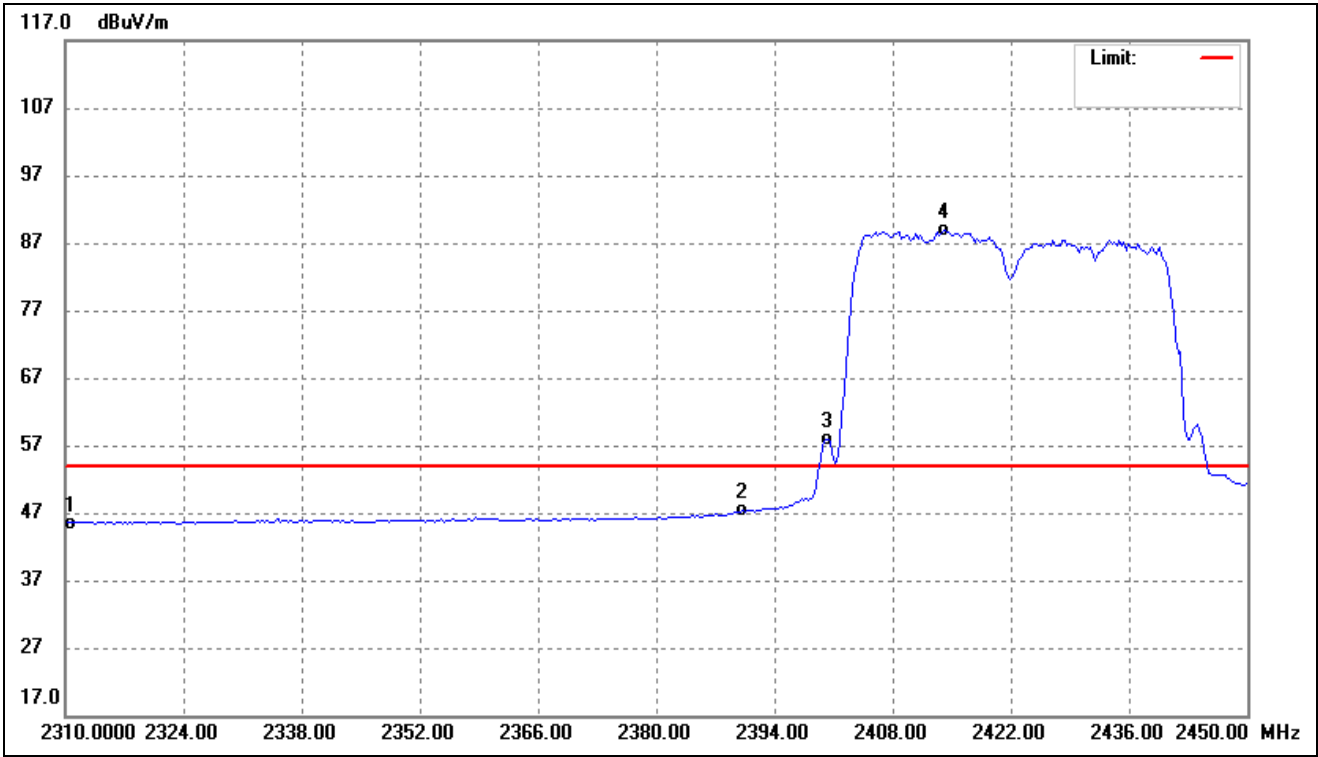
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	44.48	0.98	45.46	54.00	-8.54	Average Detector
	2310.000	56.70	0.98	57.68	74.00	-16.32	Peak Detector
2	2390.000	45.47	1.13	46.60	54.00	-7.40	Average Detector
	2390.000	58.34	1.13	59.47	74.00	-14.53	Peak Detector
3	2400.000	52.31	1.15	53.46	54.00	-0.54	Average Detector
4	2405.230	91.08	1.16	92.24	/	/	Average Detector
	2413.647	105.87	1.18	107.05	/	/	Peak Detector

802.11n-HT20_MCS7			
Test Channel	High	Polarity:	Horizontal(worst case)



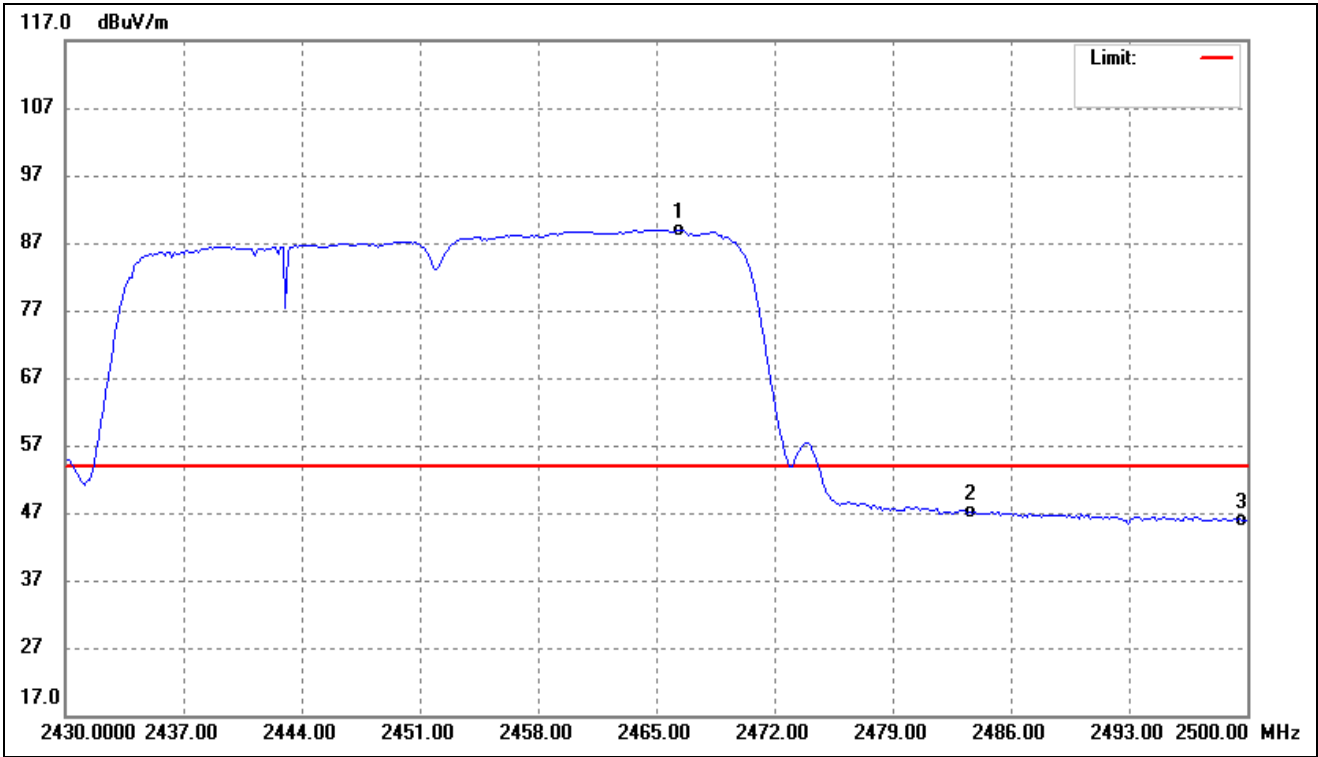
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2468.337	92.94	1.28	94.22	/	/	Average Detector
	2466.132	104.69	1.28	105.97	/	/	Peak Detector
2	2483.500	45.40	1.32	46.72	54.00	-7.28	Average Detector
	2483.500	58.67	1.32	59.99	74.00	-14.01	Peak Detector
3	2500.000	44.66	1.35	46.01	54.00	-7.99	Average Detector
	2500.000	56.59	1.35	57.94	74.00	-16.06	Peak Detector

802.11n-HT40_MCS7			
Test Channel	Low	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	44.48	0.98	45.46	54.00	-8.54	Average Detector
	2310.000	56.90	0.98	57.88	74.00	-16.12	Peak Detector
2	2390.000	46.21	1.13	47.34	54.00	-6.66	Average Detector
	2390.000	58.57	1.13	59.70	74.00	-14.30	Peak Detector
3	2400.000	56.62	1.15	57.77	Delta=31.03dBc		Average Detector
4	2414.088	87.62	1.18	88.80			Average Detector

802.11n-HT40_MCS7			
Test Channel	High	Polarity:	Horizontal(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2466.333	87.71	1.28	88.99	/	/	Average Detector
	2465.351	98.73	1.27	100.00	/	/	Peak Detector
2	2483.500	45.78	1.32	47.10	54.00	-6.90	Average Detector
	2483.500	58.55	1.32	59.87	74.00	-14.13	Peak Detector
3	2500.000	44.60	1.35	45.95	54.00	-8.05	Average Detector
	2500.000	57.03	1.35	58.38	74.00	-15.62	Peak Detector

➤ Conducted test
Please refer to Appendix D

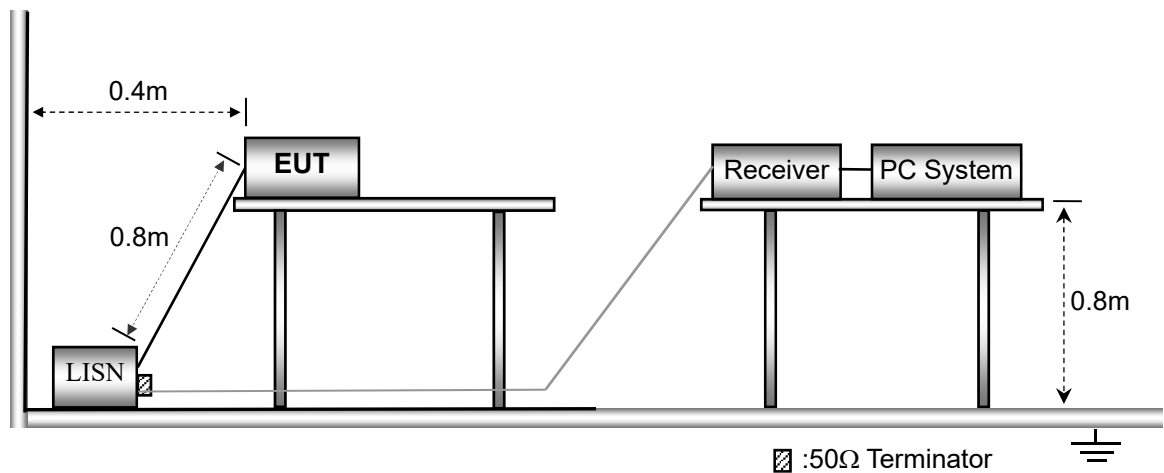
9. Conducted Emissions

9.1 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.

9.2 Basic Test Setup Block Diagram



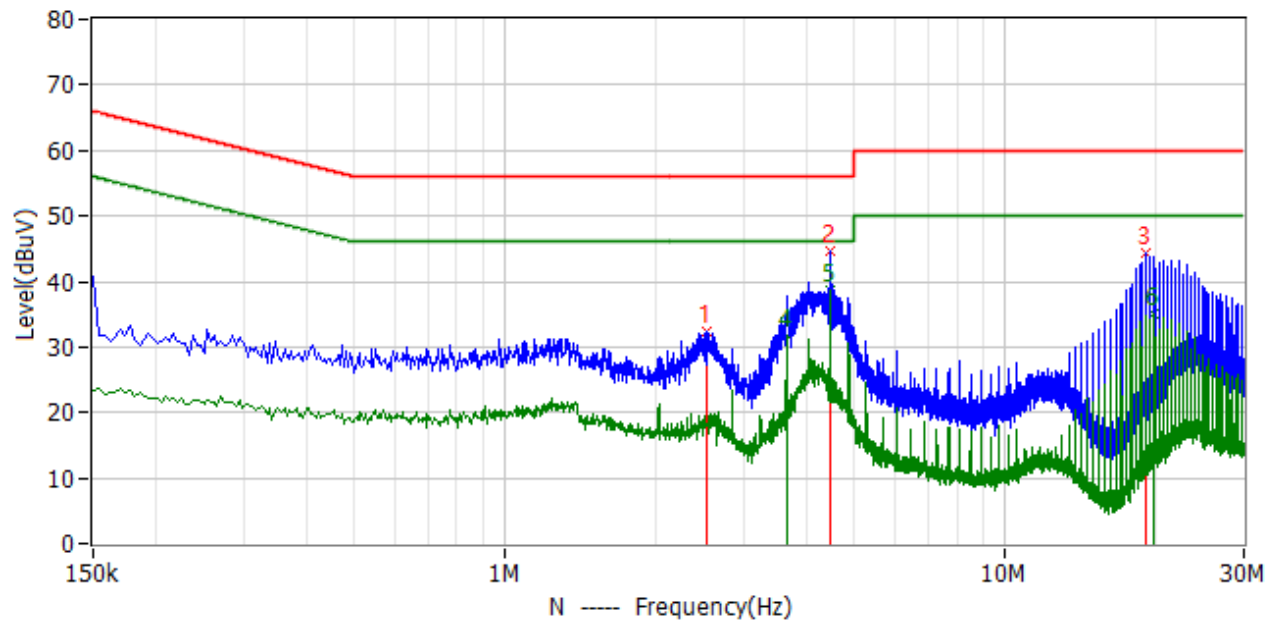
9.3 Test Receiver Setup

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

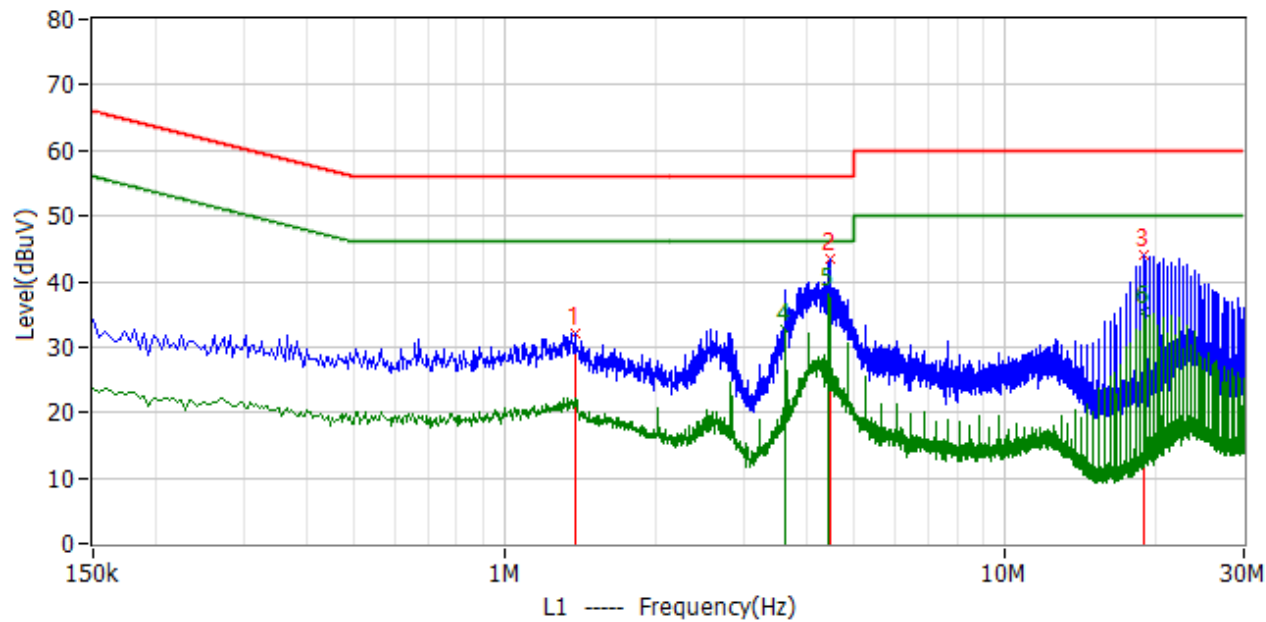
9.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector
1*	2.538MHz	56.0	32.4	-23.6	22.7	9.7	PK
2*	4.462MHz	56.0	44.7	-11.3	34.9	9.8	PK
3*	19.066MHz	60.0	44.3	-15.7	34.5	9.8	PK
4*	3.650MHz	46.0	31.8	-14.2	22.0	9.8	AV
5*	4.462MHz	46.0	38.6	-7.4	28.8	9.8	AV
6*	19.882MHz	50.0	35.1	-14.9	25.3	9.8	AV

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector
1*	1.378MHz	56.0	32.0	-24.0	22.2	9.8	PK
2*	4.450MHz	56.0	43.5	-12.5	33.6	9.9	PK
3*	19.014MHz	60.0	44.0	-16.0	34.0	10.0	PK
4*	3.638MHz	46.0	32.6	-13.4	22.7	9.9	AV
5*	4.446MHz	46.0	38.1	-7.9	28.2	9.9	AV
6*	19.014MHz	50.0	35.3	-14.7	25.3	10.0	AV

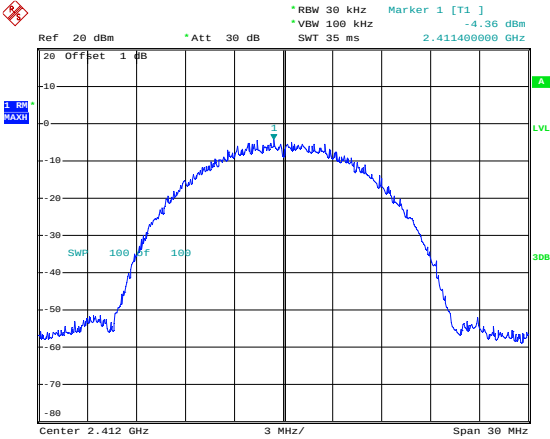
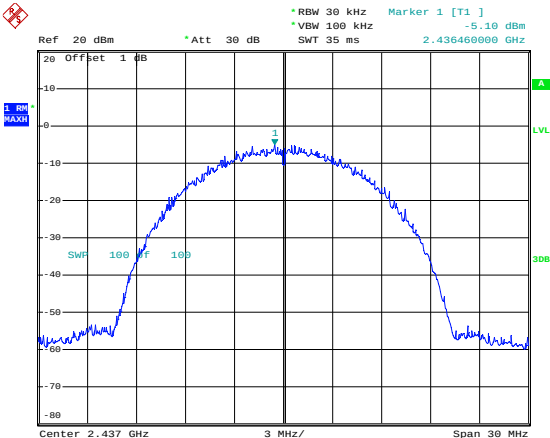
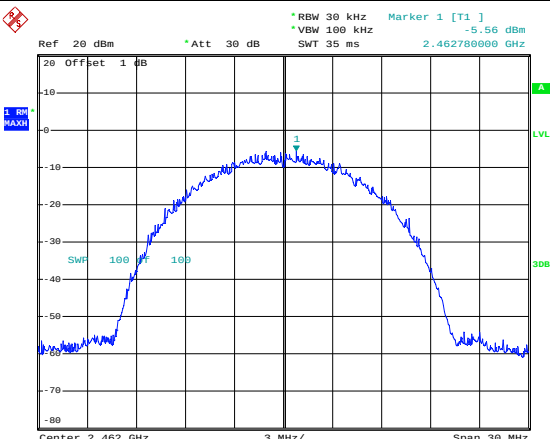
APPENDIX SUMMARY

Project No.	WTH24X01005049W	Test Engineer	Timi Huang
Start date	2024/1/12	Finish date	2024/1/12
Temperature	23.5℃	Humidity	44%
RF specifications	WIFI-2.4G		

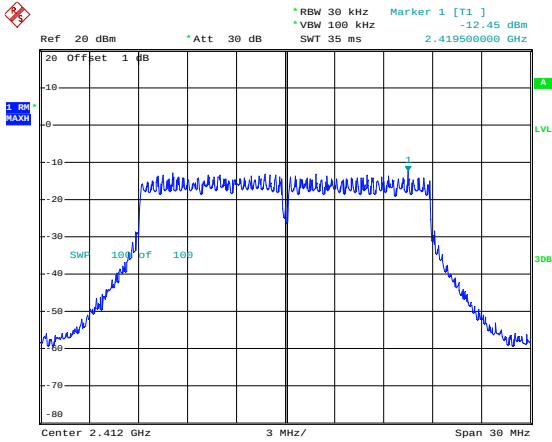
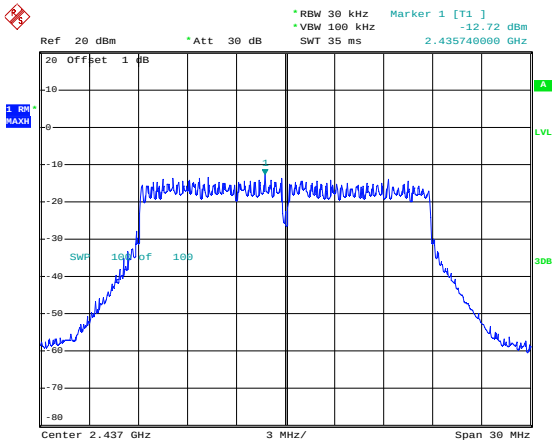
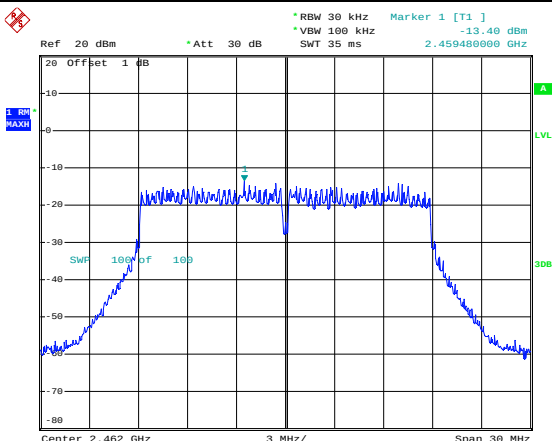
APPENDIX	Description of Test Item	Result
A	Power Spectral Density	Compliant
B	DTS Bandwidth	Compliant
C	RF Output Power	Compliant
D	Conducted Out of Band Emissions	Compliant

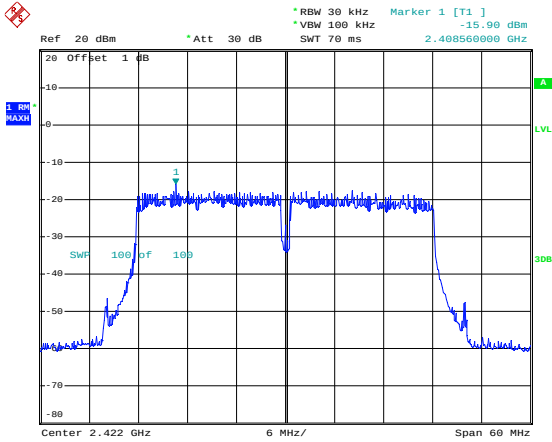
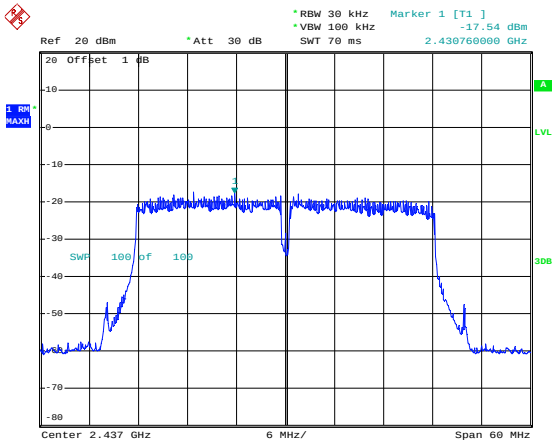
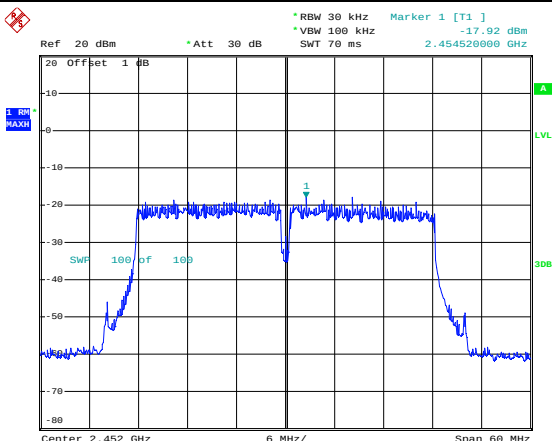
APPENDIX A

Power Spectral Density			
Test Mode	Test Channel MHz	Power Spectral Density dBm/30kHz	Limit dBm/3kHz
802.11b_11Mbps	2412	-4.36	8
	2437	-5.10	8
	2462	-5.56	8
802.11g_54Mbps	2412	-12.05	8
	2437	-12.84	8
	2462	-13.35	8
802.11n-HT20_MCS7	2412	-12.45	8
	2437	-12.72	8
	2462	-13.40	8
802.11n-HT40_MCS7	2422	-15.90	8
	2437	-17.54	8
	2452	-17.92	8

802.11b-Low	 Ref 20 dBm *Att 30 dB RBW 30 kHz Marker 1 [T1] -4.36 dBm VBW 100 kHz 2.41140000 GHz SWT 35 ms Center 2.412 GHz 3 MHz/ Span 30 MHz Date: 12.JAN.2024 14:16:18
802.11b-Middle	 Ref 20 dBm *Att 30 dB RBW 30 kHz Marker 1 [T1] -5.10 dBm VBW 100 kHz 2.43646000 GHz SWT 35 ms Center 2.437 GHz 3 MHz/ Span 30 MHz Date: 12.JAN.2024 14:15:52
802.11b-High	 Ref 20 dBm *Att 30 dB RBW 30 kHz Marker 1 [T1] -5.56 dBm VBW 100 kHz 2.46270000 GHz SWT 35 ms Center 2.462 GHz 3 MHz/ Span 30 MHz Date: 12.JAN.2024 14:15:25

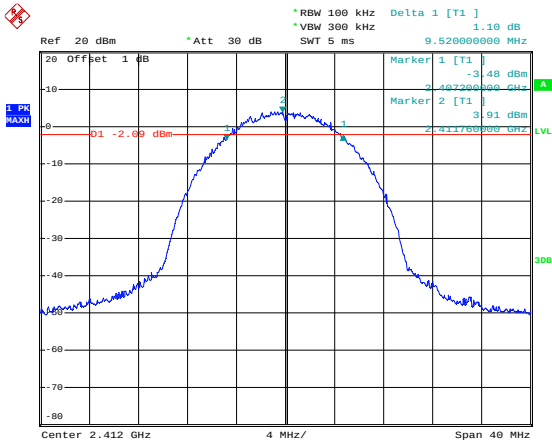
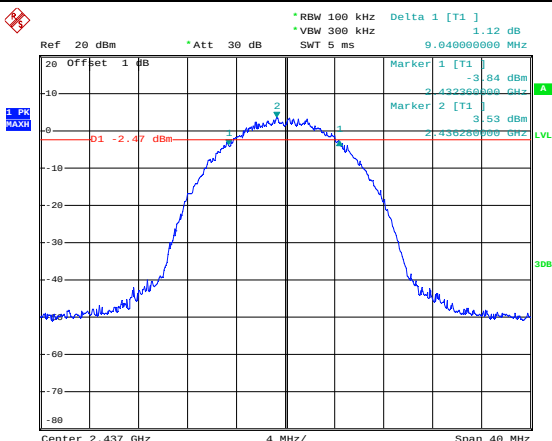
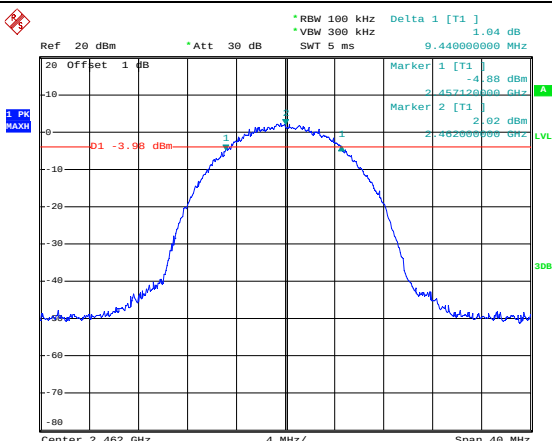
802.11g-Low	Ref 20 dBm *Att 30 dB RBW 30 kHz VBW 100 kHz SWT 35 ms Marker 1 [T1] -12.05 dBm 2.411040000 GHz 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 SWF 100 dB 100 1 dB MAX A LVL 30B Center 2.412 GHz 3 MHz/ Span 30 MHz Date: 12.JAN.2024 14:14:56
802.11g-Middle	Ref 20 dBm *Att 30 dB RBW 30 kHz VBW 100 kHz SWT 35 ms Marker 1 [T1] -12.84 dBm 2.436100000 GHz 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 SWF 100 dB 100 1 dB MAX A LVL 30B Center 2.437 GHz 3 MHz/ Span 30 MHz Date: 12.JAN.2024 14:14:28
802.11g-High	Ref 20 dBm *Att 30 dB RBW 30 kHz VBW 100 kHz SWT 35 ms Marker 1 [T1] -13.35 dBm 2.461400000 GHz 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 SWF 100 dB 100 1 dB MAX A LVL 30B Center 2.462 GHz 3 MHz/ Span 30 MHz Date: 12.JAN.2024 14:14:03

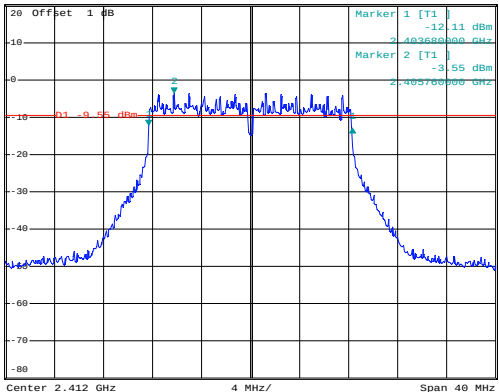
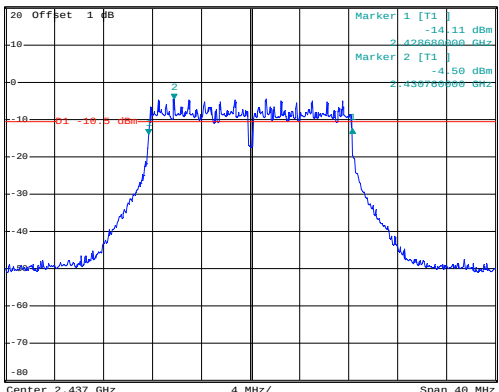
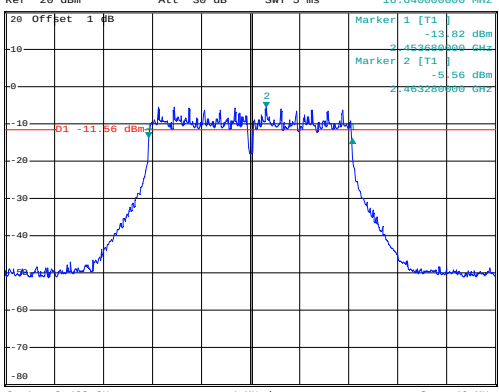
802.11n-HT20-Low	 Date: 12.JAN.2024 14:13:30
802.11n-HT20-Middle	 Date: 12.JAN.2024 14:13:05
802.11n-HT20-High	 Date: 12.JAN.2024 14:12:37

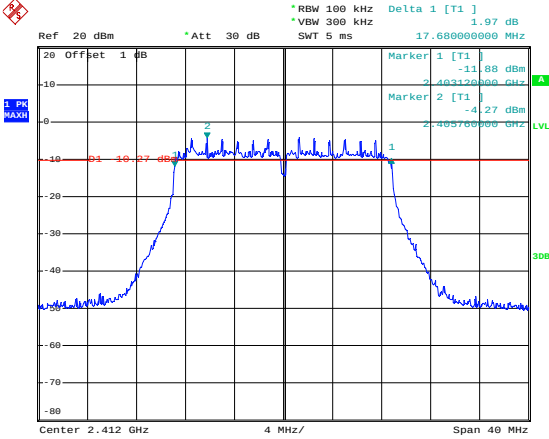
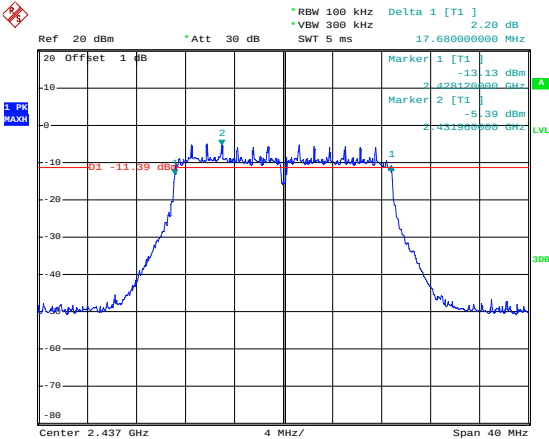
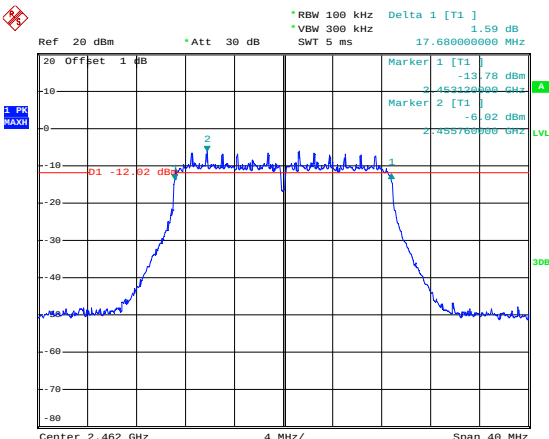
802.11n-HT40-Low	 Ref 20 dBm *Att 30 dB RBW 30 kHz Marker 1 [T1] -15.90 dBm *VBW 100 kHz SWT 70 ms 2.408560000 GHz 20 Offset 1 dB 100 kHz 100 Hz SWF 100 kHz 100 Hz Center 2.422 GHz 6 MHz/ Span 60 MHz Date: 12.JAN.2024 14:11:55
802.11n-HT40-Middle	 Ref 20 dBm *Att 30 dB RBW 30 kHz Marker 1 [T1] -17.54 dBm *VBW 100 kHz SWT 70 ms 2.430760000 GHz 20 Offset 1 dB 100 kHz 100 Hz SWF 100 kHz 100 Hz Center 2.437 GHz 6 MHz/ Span 60 MHz Date: 12.JAN.2024 14:11:14
802.11n-HT40-High	 Ref 20 dBm *Att 30 dB RBW 30 kHz Marker 1 [T1] -17.92 dBm *VBW 100 kHz SWT 70 ms 2.454520000 GHz 20 Offset 1 dB 100 kHz 100 Hz SWF 100 kHz 100 Hz Center 2.452 GHz 6 MHz/ Span 60 MHz Date: 12.JAN.2024 14:10:38

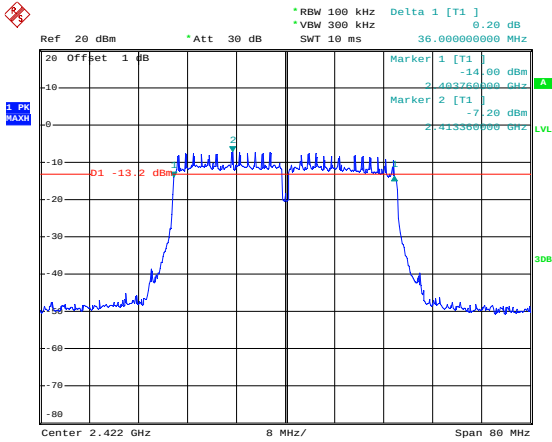
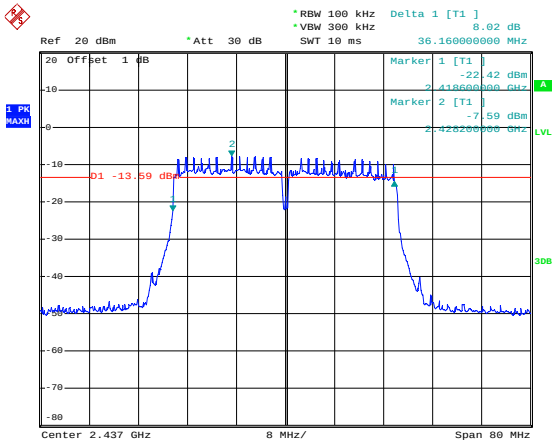
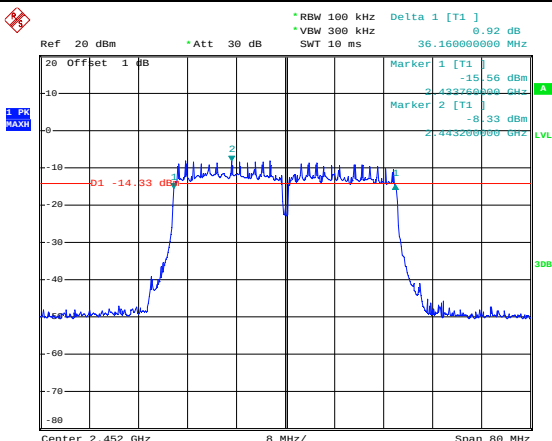
APPENDIX B

DTS Bandwidth			
Test Mode	Test Channel MHz	6 dB Bandwidth MHz	Limit kHz
802.11b_11Mbps	2412	9.52	≥500
	2437	9.04	≥500
	2462	9.44	≥500
802.11g_54Mbps	2412	16.64	≥500
	2437	16.64	≥500
	2462	16.64	≥500
802.11n-HT20_MCS7	2412	17.68	≥500
	2437	17.68	≥500
	2462	17.68	≥500
802.11n-HT40_MCS7	2422	36.00	≥500
	2437	36.16	≥500
	2452	36.16	≥500

802.11b-Low	6 dB Bandwidth  Date: 12.JAN.2024 14:41:30
802.11b-Middle	 Date: 12.JAN.2024 14:39:48
802.11b-High	 Date: 12.JAN.2024 14:38:47

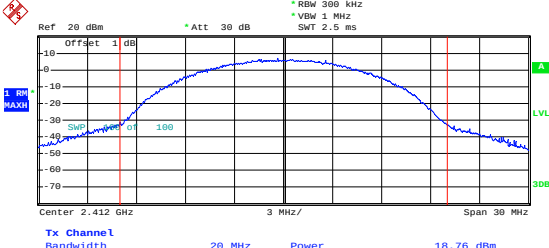
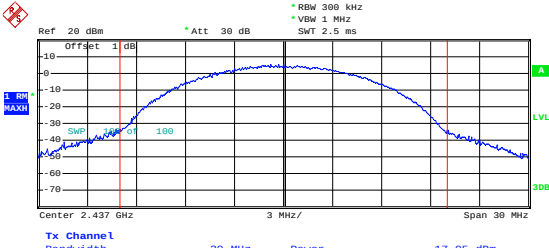
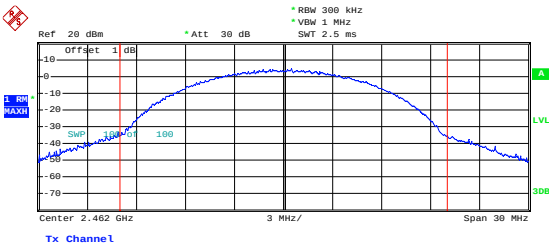
802.11g-Low	 Ref 20 dBm *Att 30 dB *RBW 100 kHz *VBW 300 kHz Delta 1 [T1] -0.74 dB 16.64000000 MHz Marker 1 [T1] -12.11 dBm 2.403600000 GHz Marker 2 [T1] -3.55 dBm 2.403700000 GHz Center 2.412 GHz 4 MHz/ Span 40 MHz Date: 12.JAN.2024 14:37:14
802.11g-Middle	 Ref 20 dBm *Att 30 dB *RBW 100 kHz *VBW 300 kHz Delta 1 [T1] 1.58 dB 16.64000000 MHz Marker 1 [T1] -14.11 dBm 2.428600000 GHz Marker 2 [T1] -4.50 dBm 2.430700000 GHz Center 2.437 GHz 4 MHz/ Span 40 MHz Date: 12.JAN.2024 14:36:10
802.11g-High	 Ref 20 dBm *Att 30 dB *RBW 100 kHz *VBW 300 kHz Delta 1 [T1] -0.25 dB 16.64000000 MHz Marker 1 [T1] -13.82 dBm 2.453600000 GHz Marker 2 [T1] -5.56 dBm 2.463200000 GHz Center 2.462 GHz 4 MHz/ Span 40 MHz Date: 12.JAN.2024 14:35:08

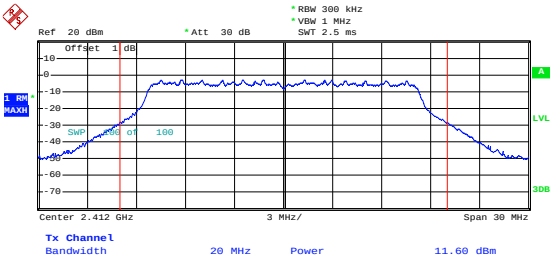
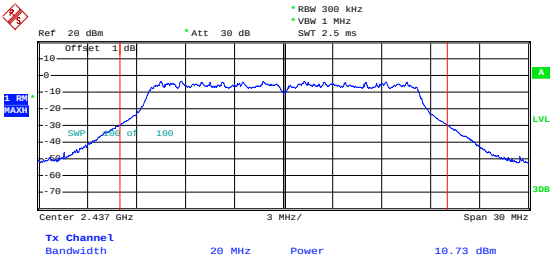
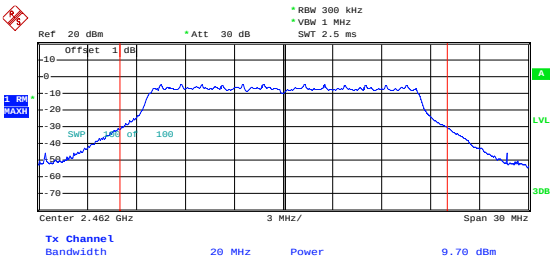
802.11n-HT20-Low	 Ref 20 dBm *Att 30 dB *RBW 100 kHz Delta 1 [T1] 1.97 dB *VBW 300 kHz 17.68000000 MHz SWT 5 ms Marker 1 [T1] -11.88 dBm Marker 2 [T1] -4.27 dBm Center 2.412 GHz 4 MHz/ Span 40 MHz Date: 12.JAN.2024 14:34:14
802.11n-HT20-Middle	 Ref 20 dBm *Att 30 dB *RBW 100 kHz Delta 1 [T1] 2.20 dB *VBW 300 kHz 17.68000000 MHz SWT 5 ms Marker 1 [T1] -11.39 dBm Marker 2 [T1] -5.39 dBm Center 2.437 GHz 4 MHz/ Span 40 MHz Date: 12.JAN.2024 14:33:28
802.11n-HT20-High	 Ref 20 dBm *Att 30 dB *RBW 100 kHz Delta 1 [T1] 1.59 dB *VBW 300 kHz 17.68000000 MHz SWT 5 ms Marker 1 [T1] -12.02 dBm Marker 2 [T1] -6.02 dBm Center 2.462 GHz 4 MHz/ Span 40 MHz Date: 12.JAN.2024 14:32:43

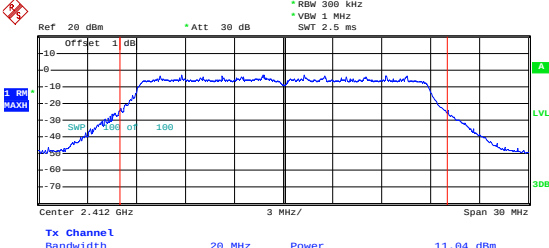
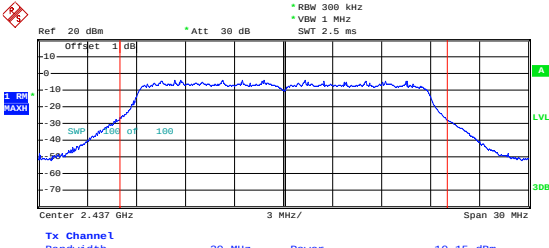
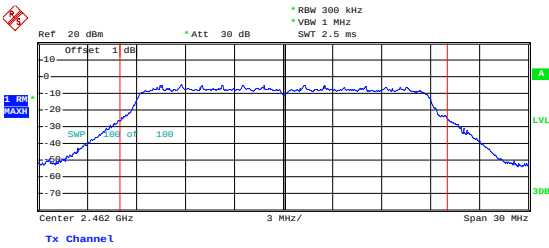
802.11n-HT40-Low	 Ref 20 dBm *Att 30 dB Delta 1 [T1] 0.20 dB RBW 100 kHz VBW 300 kHz SWT 10 ms 36.00000000 MHz Marker 1 [T1] -14.00 dBm Marker 2 [T1] -7.20 dBm D1 -13.2 dBm Center 2.422 GHz 8 MHz/ Span 80 MHz Date: 12.JAN.2024 14:31:48
802.11n-HT40-Middle	 Ref 20 dBm *Att 30 dB Delta 1 [T1] 8.02 dB RBW 100 kHz VBW 300 kHz SWT 10 ms 36.16000000 MHz Marker 1 [T1] -22.42 dBm Marker 2 [T1] -7.59 dBm D1 -13.59 dBm Center 2.437 GHz 8 MHz/ Span 80 MHz Date: 12.JAN.2024 14:30:37
802.11n-HT40-High	 Ref 20 dBm *Att 30 dB Delta 1 [T1] 0.92 dB RBW 100 kHz VBW 300 kHz SWT 10 ms 36.16000000 MHz Marker 1 [T1] -15.56 dBm Marker 2 [T1] -8.33 dBm D1 -14.33 dBm Center 2.452 GHz 8 MHz/ Span 80 MHz Date: 12.JAN.2024 14:28:53

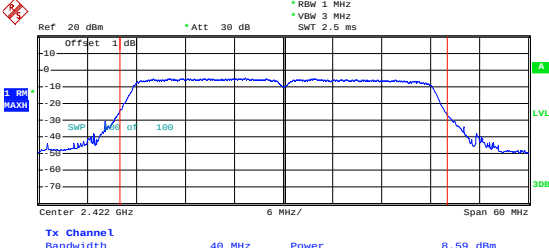
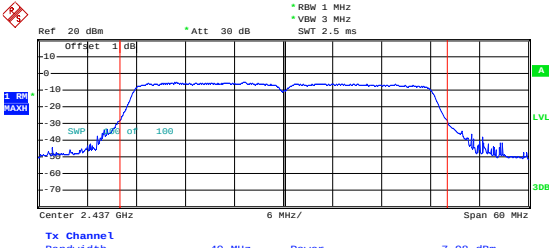
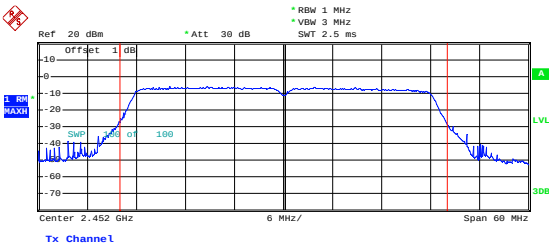
APPENDIX C

Test Mode	Frequency MHz	Reading dBm	Limit dBm
802.11b _ 1Mbps	2412	18.76	30.00
	2437	17.05	30.00
	2462	16.30	30.00
802.11g_6Mbps	2412	11.60	30.00
	2437	10.73	30.00
	2462	9.70	30.00
802.11n HT20_MCS0	2412	11.04	30.00
	2437	10.15	30.00
	2462	9.32	30.00
802.11n HT40_MCS0	2422	8.59	30.00
	2437	7.98	30.00
	2452	7.35	30.00

802.11b-Low	 Ref 20 dBm * Att 30 dB RBW 300 kHz Offset 1 dB VBW 1 MHz SMT 2.5 ms Center 2.412 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 18.76 dBm Date: 12.JAN.2024 13:59:29
802.11b-Middle	 Ref 20 dBm * Att 30 dB RBW 300 kHz Offset 1 dB VBW 1 MHz SMT 2.5 ms Center 2.437 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 17.05 dBm Date: 12.JAN.2024 14:00:39
802.11b-High	 Ref 20 dBm * Att 30 dB RBW 300 kHz Offset 1 dB VBW 1 MHz SMT 2.5 ms Center 2.462 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 16.38 dBm Date: 12.JAN.2024 14:01:57

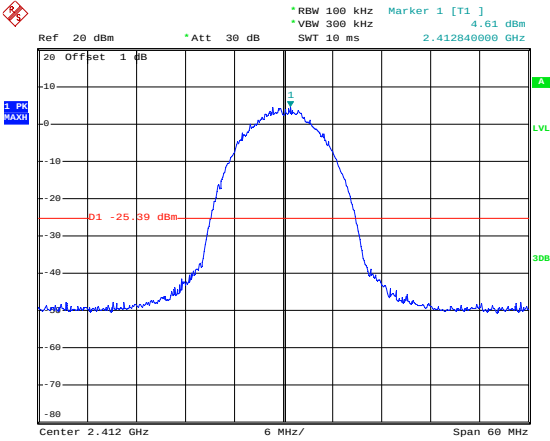
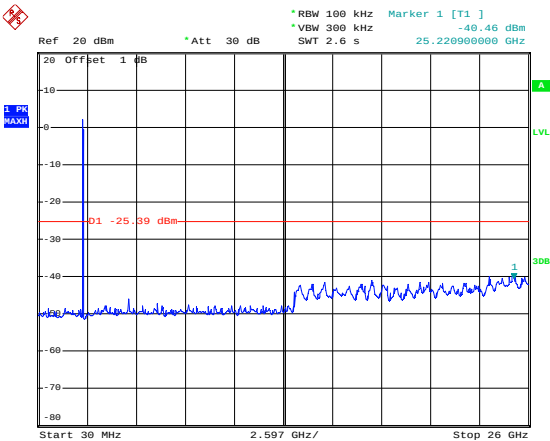
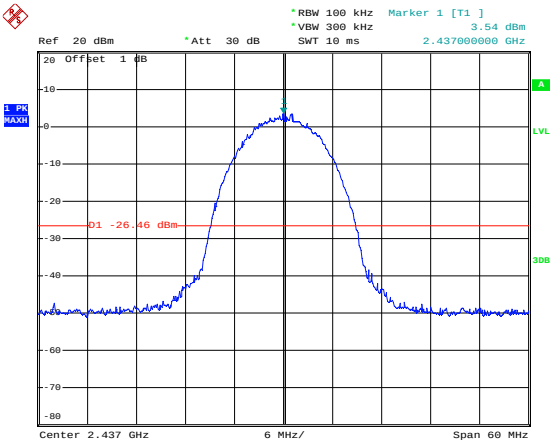
802.11g-Low	 Ref 20 dBm * Att 30 dB * RBW 300 kHz * VBW 1 MHz SMT 2.5 ms Offset 1 dB 1 dB MAX SwP 100 Center 2.412 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 11.68 dBm Date: 12.JAN.2024 14:03:18
802.11g-Middle	 Ref 20 dBm * Att 30 dB * RBW 300 kHz * VBW 1 MHz SMT 2.5 ms Offset 1 dB 1 dB MAX SwP 100 Center 2.437 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 10.73 dBm Date: 12.JAN.2024 14:03:59
802.11g-High	 Ref 20 dBm * Att 30 dB * RBW 300 kHz * VBW 1 MHz SMT 2.5 ms Offset 1 dB 1 dB MAX SwP 100 Center 2.462 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 9.78 dBm Date: 12.JAN.2024 14:05:01

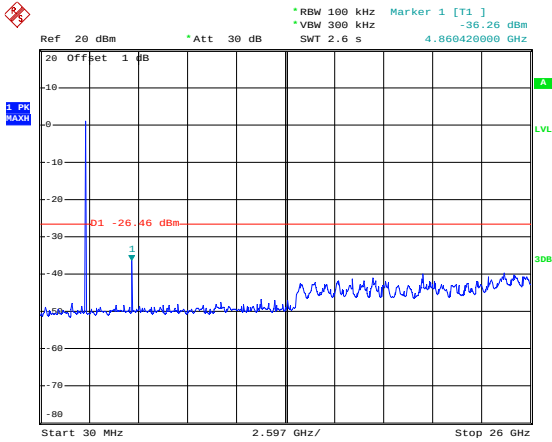
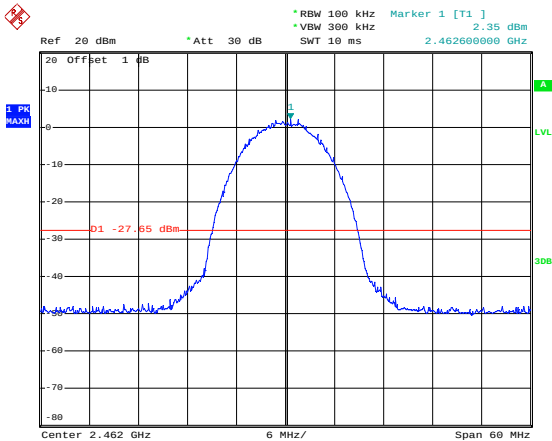
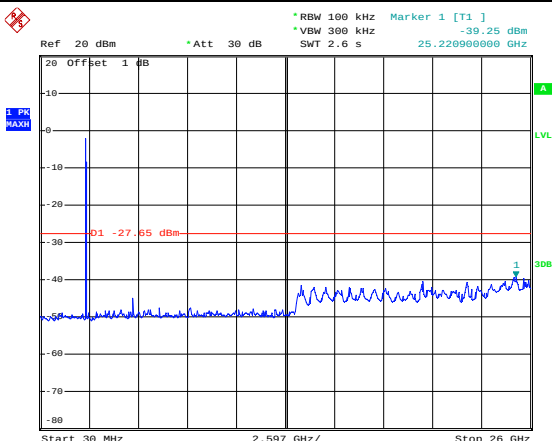
802.11n-HT20-Low	 Ref 20 dBm * Att 30 dB RBW 300 kHz VBW 1 MHz SMT 2.5 ms Offset 1 dB Center 2.412 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 11.04 dBm Date: 12.JAN.2024 14:05:38
802.11n-HT20-Middle	 Ref 20 dBm * Att 30 dB RBW 300 kHz VBW 1 MHz SMT 2.5 ms Offset 1 dB Center 2.437 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 10.15 dBm Date: 12.JAN.2024 14:06:07
802.11n-HT20-High	 Ref 20 dBm * Att 30 dB RBW 300 kHz VBW 1 MHz SMT 2.5 ms Offset 1 dB Center 2.462 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 9.32 dBm Date: 12.JAN.2024 14:06:40

802.11n-HT40-Low	 Ref 20 dBm * Att 30 dB RBW 1 MHz Offset 1 dB VBW 3 MHz SMT 2.5 ms Center 2.422 GHz 6 MHz/ Span 60 MHz Tx Channel Bandwidth 40 MHz Power 8.59 dBm 1 RBW MAX SWP 100 of 100 LVL 300 Date: 12.JAN.2024 14:07:33
802.11n-HT40-Middle	 Ref 20 dBm * Att 30 dB RBW 1 MHz Offset 1 dB VBW 3 MHz SMT 2.5 ms Center 2.437 GHz 6 MHz/ Span 60 MHz Tx Channel Bandwidth 40 MHz Power 7.98 dBm 1 RBW MAX SWP 100 of 100 LVL 300 Date: 12.JAN.2024 14:08:01
802.11n-HT40-High	 Ref 20 dBm * Att 30 dB RBW 1 MHz Offset 1 dB VBW 3 MHz SMT 2.5 ms Center 2.452 GHz 6 MHz/ Span 60 MHz Tx Channel Bandwidth 40 MHz Power 7.35 dBm 1 RBW MAX SWP 100 of 100 LVL 300 Date: 12.JAN.2024 14:08:30

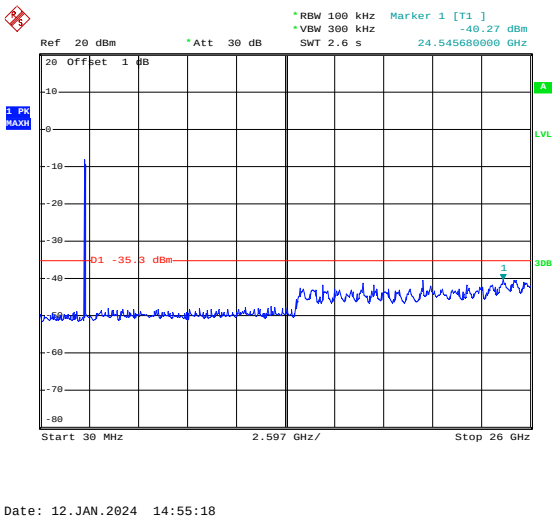
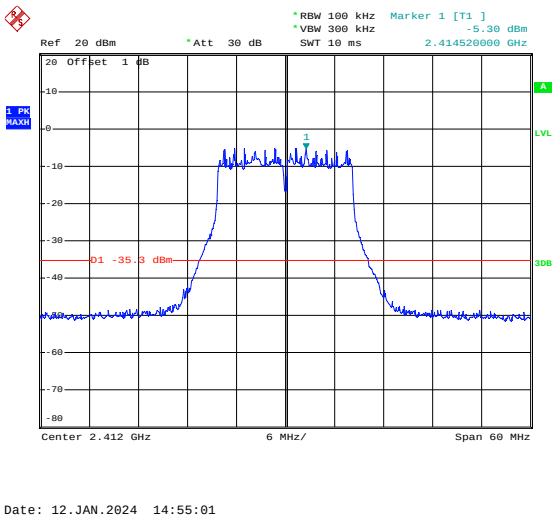
APPENDIX D

Conducted Out of Band Emissions

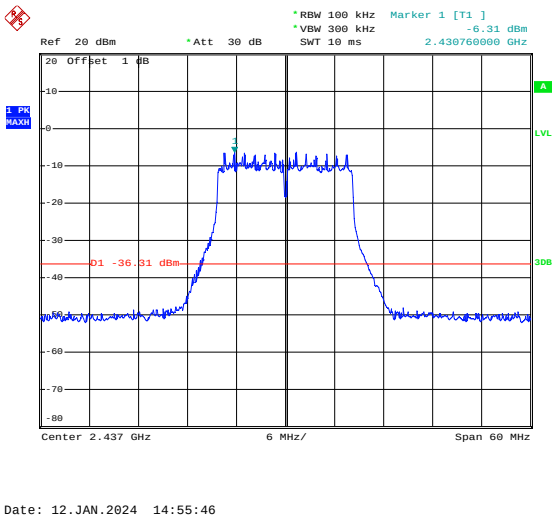
802.11b-Low	 Date: 12.JAN.2024 14:47:23
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802.11b-Middle	 Date: 12.JAN.2024 14:49:20

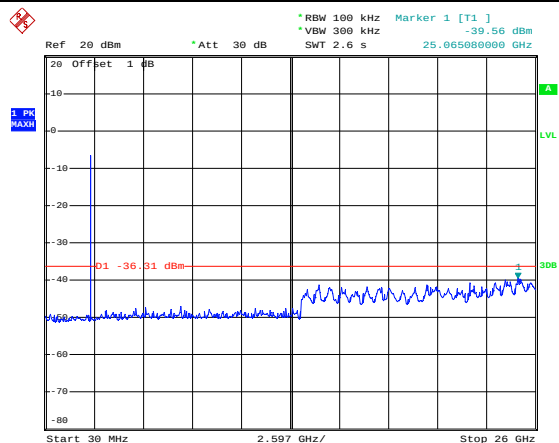
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802.11b-High	 Date: 12.JAN.2024 14:53:49
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802.11g-Low

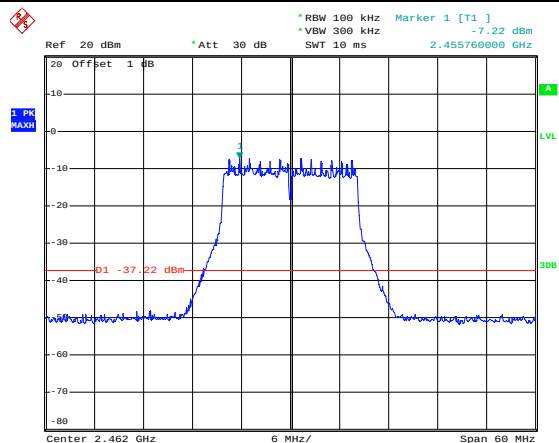


802.11g-Middle



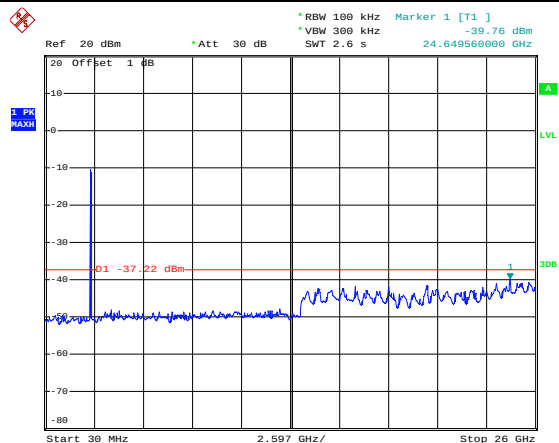


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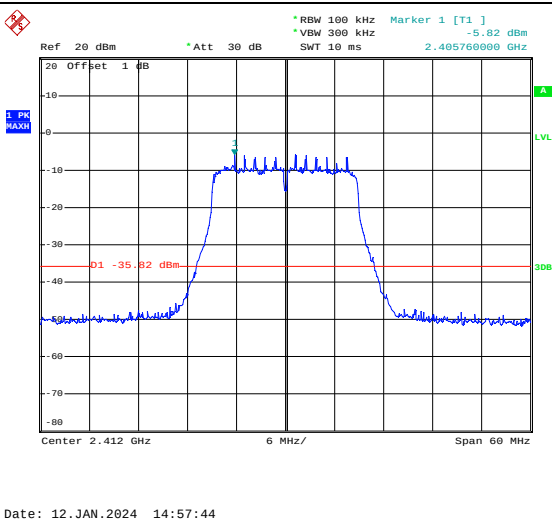
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802.11g-High

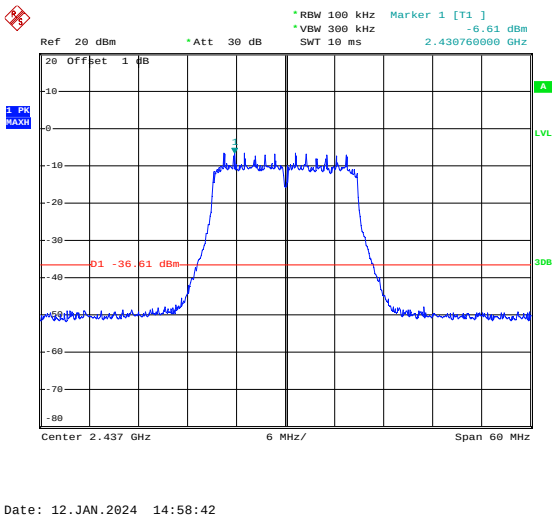


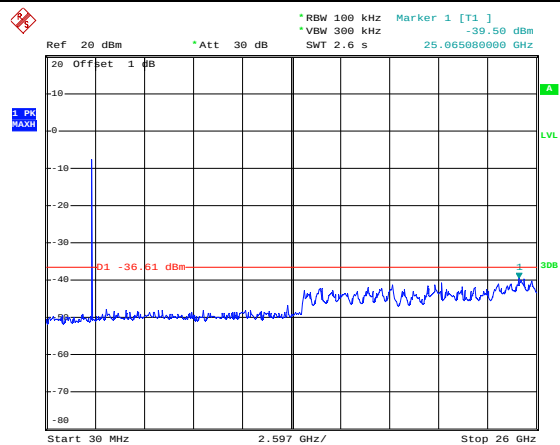
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802.11n-HT20-Low

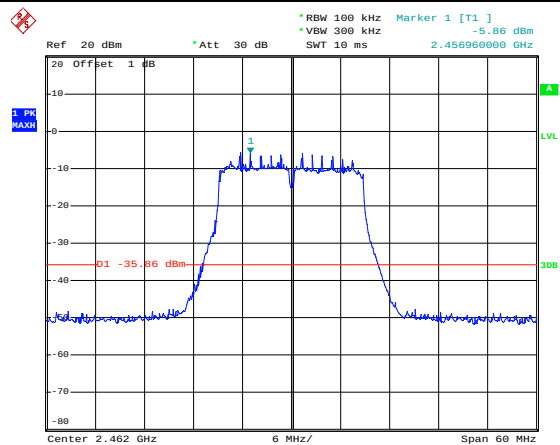


802.11n-HT20-Middle



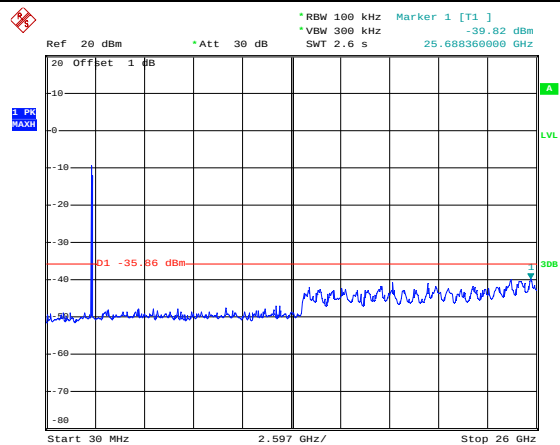


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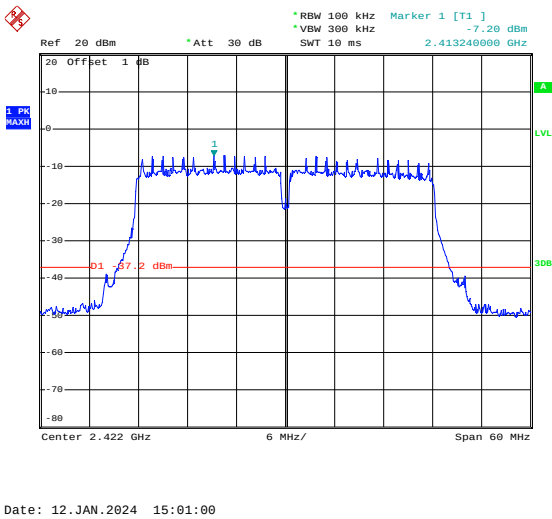
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802.11n-HT20-High

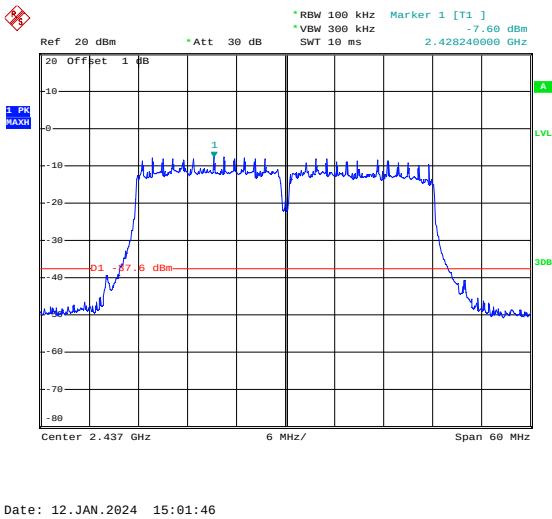


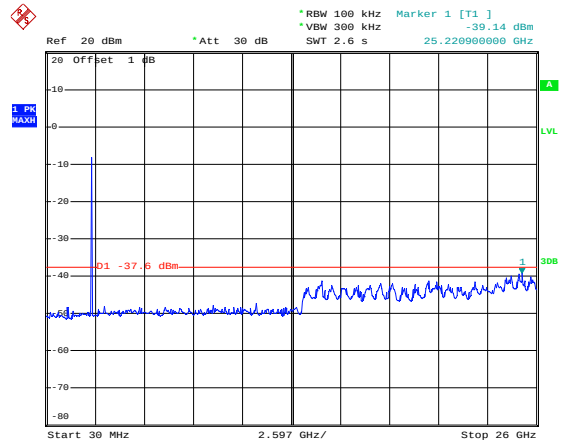
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802.11n-HT40-Low

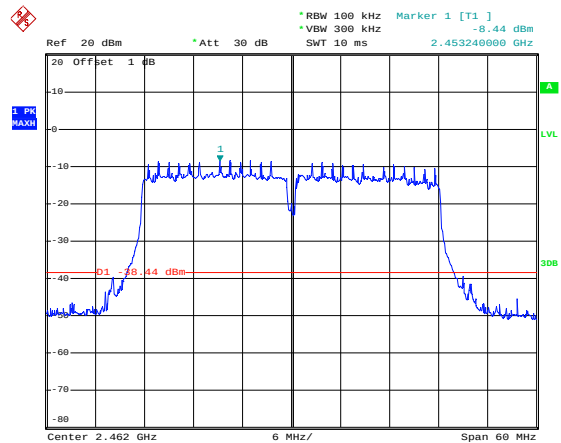


802.11n-HT40-Middle



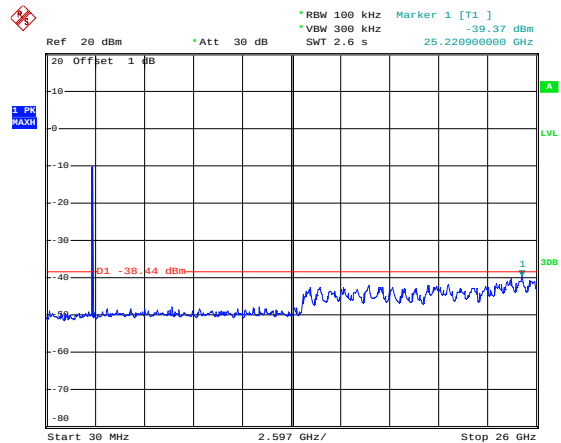


Date: 12.JAN.2024 15:02:02



Date: 12.JAN.2024 15:02:35

802.11n-HT40-High



Date: 12.JAN.2024 15:03:06

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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