



# TEST REPORT

Applicant: Hangzhou Ingscreen Technology Co.,LTD  
Address of Applicant: Room 502A, building 3, Lierda Technology Park,1324 Wenyi West Road,Yuhang District Hangzhou, China  
Manufacturer/Factory: Hangzhou Ingscreen Technology Co.,LTD  
Address of Manufacturer: Room 502A, building 3, Lierda Technology Park,1324 Wenyi West Road,Yuhang District Hangzhou, China  
Product Name: Digital Signage  
Model No.: IS-AD43,IS-AD22,IS-AD32,IS-AD43,IS-AD49,IS-AD55,IS-AD65,IS-AD75,IS-AD86,IS-AD98,IS-AD110,IS-AD22F,IS-AD32F,IS-AD43F,IS-AD49F,IS-AD55F,IS-AD65F,IS-AD75F,IS-AD86F,IS-AD98F,IS-AD110F,IS-AD22W,IS-AD32W,IS-AD43W,IS-AD49W,IS-AD55W,IS-AD65W,IS-AD75W,IS-AD86W,IS-AD98W,IS-AD110W  
Trade Mark: INGSCREEN  
FCC ID: 2A9WM-IS-AD43  
Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247  
Date of Test: Apr.07, 2024-May.31, 2024  
Date of report issued: Jun.26, 2024

*Remark:*

*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 compiler and approver*

## Prepared By

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**Report Revision History**

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## 1. Test Summary

Test Item	Section	Result	Test by
Antenna requirement	FCC part 15.203/15.247 (c)	Pass	/
AC Power Line Conducted Emission	FCC part 15.207	Pass	Carr Kang
Conducted Peak Output Power	FCC part 15.247 (b)(3)	Pass	Yvan Fan
6dB Bandwidth	FCC part 15.247 (a)(2)	Pass	Yvan Fan
Power Spectral Density	FCC part 15.247 (e)	Pass	Yvan Fan
Band Edge	FCC part 15.247(d)	Pass	Yvan Fan
Spurious Emission	FCC part 15.205/15.209	Pass	Carr Kang

**Remarks:**

1. *Pass: The EUT complies with the essential requirements in the standard.*
2. *Test according to ANSI C63.10:2013*
3. *Note: Compliance determination rules*
  - 1). *The Compliance determination of test results does not take into account measurement uncertainty. Measurement results are determined based on regulatory limitations or requirements specified by the applicant/manufacturer. If measurement uncertainty is taken into account, the applicant/manufacturer will bear all possible risks of non-compliance.*
  - 2). *The measurement uncertainty please refer to each test result in the "Measurement Uncertainty"*

**Measurement Uncertainty**

Test Item	Uncertainty Criterion	Measurement Uncertainty	Notes
Occupied Channel Bandwidth	±5%	±0.55%	(1)
RF output power, conducted	±1.5dB	±0.99dB	(1)
Power Spectral Density, conducted	±3dB	±0.61dB	(1)
Unwanted Emissions, conducted	±3dB	±0.64dB	(1)
AC Power Line Conducted Emission	±6dB	± 2.64 dB	(1)
Radiated emissions Below 1GHz	±6dB	±4.32 dB	(1)
Radiated emissions Above 1GHz	±6dB	±4.56dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

## 2. General Information

### 2.1 General Description of EUT

Product Name:	Digital Signage
Model No.:	IS-AD43,IS-AD22,IS-AD32,IS-AD43,IS-AD49,IS-AD55,IS-AD65,IS-AD75,IS-AD86,IS-AD98,IS-AD110,IS-AD22F,IS-AD32F,IS-AD43F,IS-AD49F,IS-AD55F,IS-AD65F,IS-AD75F,IS-AD86F,IS-AD98F,IS-AD110F,IS-AD22W,IS-AD32W,IS-AD43W,IS-AD49W,IS-AD55W,IS-AD65W,IS-AD75W,IS-AD86W,IS-AD98W,IS-AD110W
Test Model:	IS-AD43
Difference of model(s)	All the model are the same circuit and RF module, except the model names and colors
Hardware version:	N/A
Software version:	N/A
Sample(s) Status	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11 802.11n(HT40):7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(HT40): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Integrated Antenna
Antenna gain:	4.69 dBi(Declare by applicant) Note: Antenna information is provided by applicant, Testing lab is not responsible for the accuracy of the information.
Battery:	N/A
Power supply:	AC 120V

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz	X	

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)	
	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

## 2.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the dutycycle &gt;98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:				
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.				
Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

## 2.3 Description of Support Units

No.	Description	Manufacturer	Model	Serial Number

## 2.4 Deviation from Standards

None.
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## 2.5 Abnormalities from Standard Conditions

None.
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## 2.6 Test Facility

Test laboratory:	Shenzhen ETR Standard Technology Co., Ltd.
CNAS Registration Number:	L11864
A2LA Certificate Number:	6640.01
FCC Designation Number:	CN1326
FCC Test Firm Registration:	183064

## 2.7 Test Location

All tests were performed at:	
Laboratory location:	No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	+86 755 85259392
Fax:	+86 755 27219460

## 2.8 Additional Instructions

Test Software	RtkWiFiTest-v2.5.3_20190305
Power level setup	Default

### 3. Test Instruments list

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	100605	2024.3.12	2025.3.11
2	EMI Test Receiver	Rohde&schwarz	ESCI3	102696	2024.3.12	2025.3.11
3	Loop Antenna	schwarabeck	FMZB 1519 B	FMZB 1519 B	2024.3.19	2026.3.18
4	Broadband antenna	schwarabeck	VULB9168	1064	2024.3.19	2026.3.18
5	Horn antenna	schwarabeck	BBHA9120D	9120D-1145	2024.3.19	2026.3.18
6	amplifier	EMtrace	RP01A	50117	2024.3.12	2025.3.11
7	Artificial power network	schwarabeck	NSLK8127	8127483	2024.3.12	2025.3.11
8	Artificial power network	ETS	3186/2NM	1132	2024.3.12	2025.3.11
9	10dB attenuator	HUBER+SUHNER	10dB	/	2024.3.12	2025.3.11
10	amplifier	Space-Dtronics	EWLAN0118G-P40	19113001	2024.3.12	2025.3.11
11	Filter	Xingbo	XBLBQ-GTA19	210410-3-1	2024.3.12	2025.3.11
12	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2024.3.12	2025.3.11
13	Power detector box	MWRFTest	MW100-PSB	MW201020JYT	2024.3.12	2025.3.11
14	Power meter	Rohde&Schwarz	NRP-Z11	1138.3004.02-117725-vh	2024.3.12	2025.3.11
15	amplifier	SKET	LNPA_1840-50 (18-40GHz)	SK2019040302	2024.3.12	2025.3.11
16	Horn antenna	schwarabeck	BBHA 9170	946	2024.3.19	2026.3.18
17	Spectrum analyzer	Rohde&schwarz	FSU40	1166.1660K43	2024.3.12	2025.3.11

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

Software Name	Manufacturer	Model	Version
RF test software	MWRFTest	MTS 8310	V2.0.0.0
Conducted test software	EZ-EMC	Farad	Ver.EMC-CON 3A1.1
Radiated test software	EZ-EMC	Farad	Ver.FA-03A2 RE

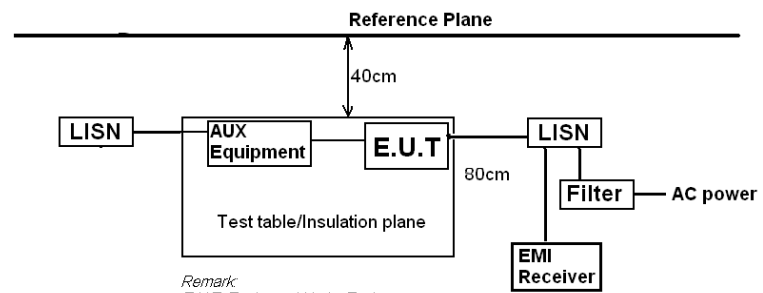


## 4. Test results and Measurement Data

### 4.1 Antenna requirement

<b>Standard requirement:</b>	FCC Part15 C Section 15.203 /247(c)
<p><b>15.203 requirement:</b></p> <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p><b>15.247(c) (1)(i) requirement:</b></p> <p>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</p>	
<p><b>EUT Antenna:</b></p> <p><i>The antennas are Integrated Antenna, the best case gain of the antennas are 4.69 dBi, reference to the appendix II for details</i></p>	

### 4.2 Conducted Emissions

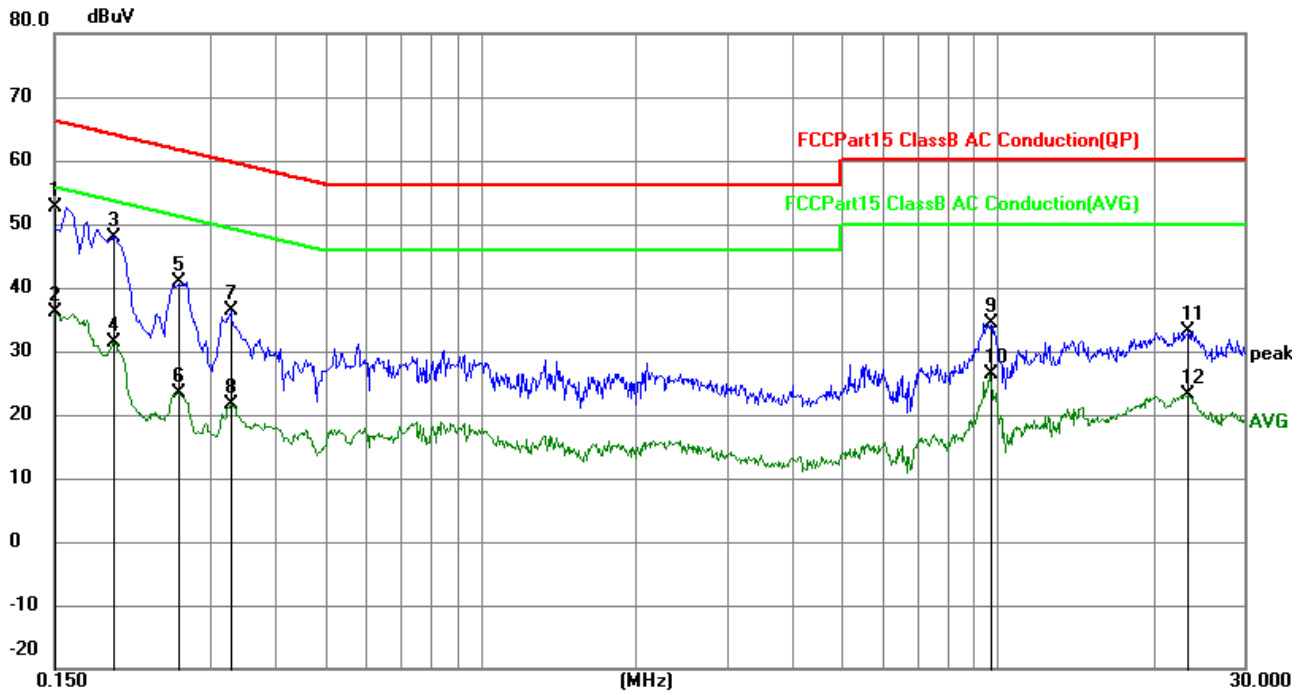
Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	150KHz to 30MHz					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto					
Limit:	Frequency range (MHz)	Limit (dBuV)				
		Quasi-peak		Average		
	0.15-0.5	66 to 56*		56 to 46*		
	0.5-5	56		46		
	5-30	60		50		
* Decreases with the logarithm of the frequency.						
Test setup:	 <p style="font-size: small;">Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>					
Test procedure:	<ol style="list-style-type: none"> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.</li> </ol>					
Test Instruments:	Refer to section 3.0 for details					
Test mode:	Refer to section 2.2 for details					
Test environment:	Temp.:	25.4°C	Humid.:	57%	Press.:	1012mbar
Test voltage:	AC 120V					
Test results:	Pass					

**Remark:**

- Both high voltage and low voltage have been tested, and the report only shows the worst case data with AC 120V/60Hz.
- All mode have been tested, the report only shows the worst mode (802.11n20 2462MHz)

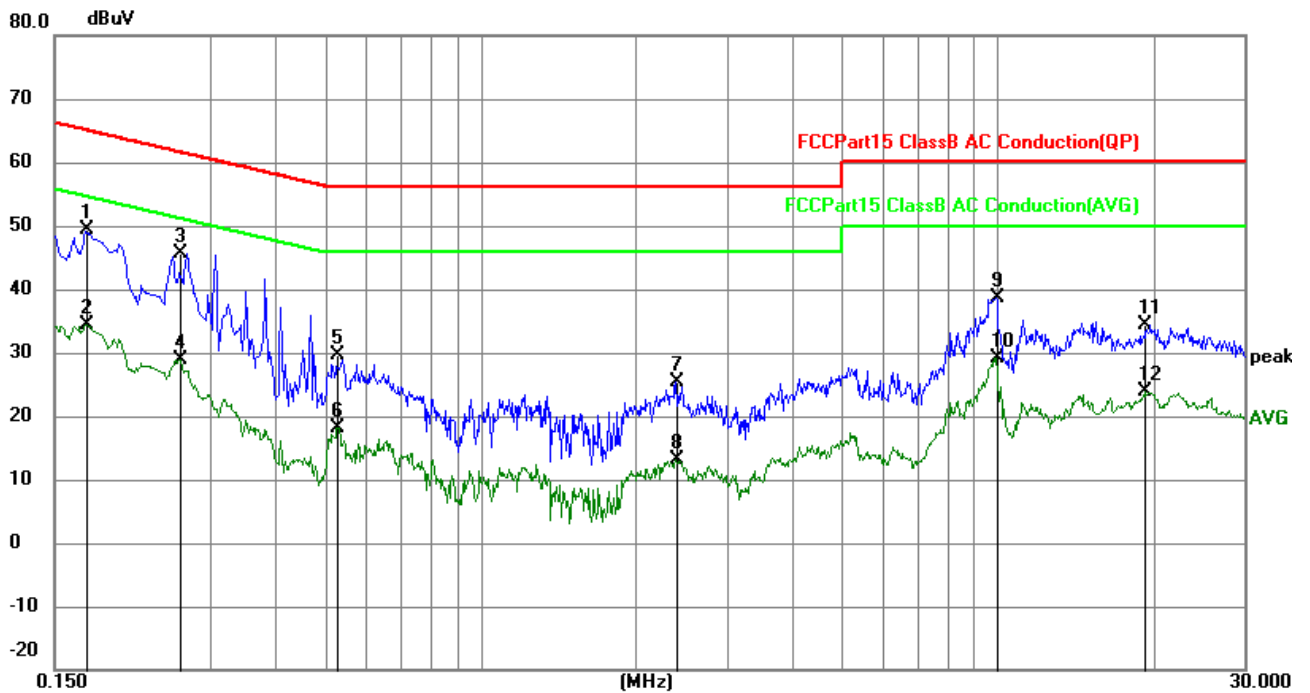
Measurement Result

Line:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	42.71	9.80	52.51	66.00	-13.49	QP
2	0.1500	26.42	9.80	36.22	56.00	-19.78	AVG
3	0.1949	38.09	9.81	47.90	63.83	-15.93	QP
4	0.1949	21.68	9.81	31.49	53.83	-22.34	AVG
5	0.2600	30.96	9.83	40.79	61.43	-20.64	QP
6	0.2600	13.57	9.83	23.40	51.43	-28.03	AVG
7	0.3300	26.40	9.87	36.27	59.45	-23.18	QP
8	0.3300	11.87	9.87	21.74	49.45	-27.71	AVG
9	9.6539	24.58	9.84	34.42	60.00	-25.58	QP
10	9.6539	16.54	9.84	26.38	50.00	-23.62	AVG
11	23.3158	23.44	9.61	33.05	60.00	-26.95	QP
12	23.3158	13.62	9.61	23.23	50.00	-26.77	AVG

Neutral:

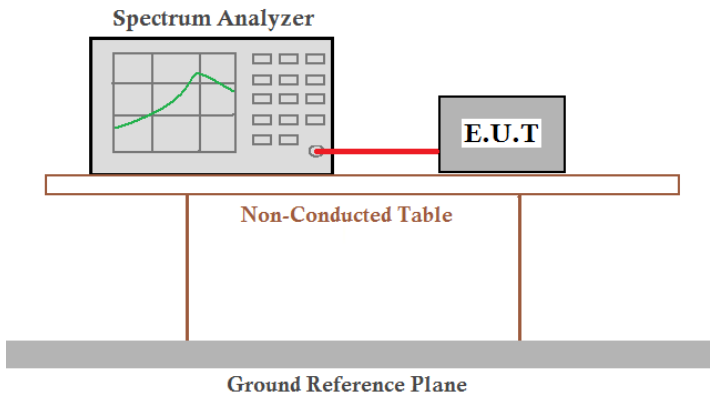


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1723	39.49	9.81	49.30	64.85	-15.55	QP
2	0.1723	24.55	9.81	34.36	54.85	-20.49	AVG
3	0.2625	35.72	9.83	45.55	61.35	-15.80	QP
4	0.2625	19.13	9.83	28.96	51.35	-22.39	AVG
5	0.5279	19.60	9.94	29.54	56.00	-26.46	QP
6	0.5279	8.16	9.94	18.10	46.00	-27.90	AVG
7	2.3864	15.50	9.85	25.35	56.00	-30.65	QP
8	2.3864	3.33	9.85	13.18	46.00	-32.82	AVG
9	9.9148	28.74	9.84	38.58	60.00	-21.42	QP
10	9.9148	19.29	9.84	29.13	50.00	-20.87	AVG
11	19.3200	24.71	9.68	34.39	60.00	-25.61	QP
12	19.3200	14.30	9.68	23.98	50.00	-26.02	AVG

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

### 4.3 Duty cycle

Test Method :	ANSI C63.10:2013	
Limit:	/	
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.9°C	Humid.: 51%RH
Test voltage:	AC 120V	
Test results:	Pass	

### Measurement Result

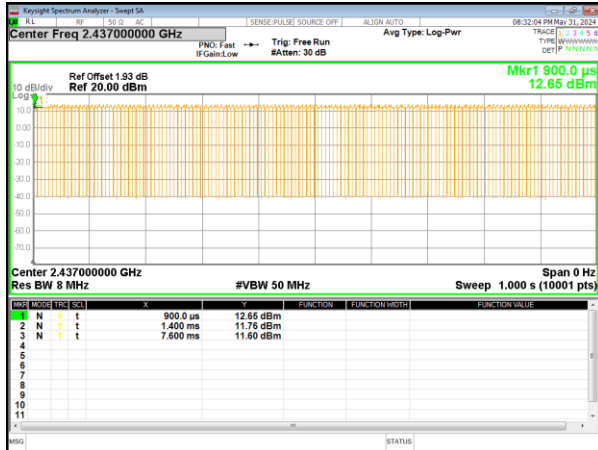
Mode	Duty cycle (%)	Correction Factor (dB)
802.11b	92.54	0.34
802.11g	86.67	0.62
802.11n20	98.73	0.06
802.11n40	88.24	0.54

Duty Cycle (%)=(TX on/TXon+TXoff)\*100

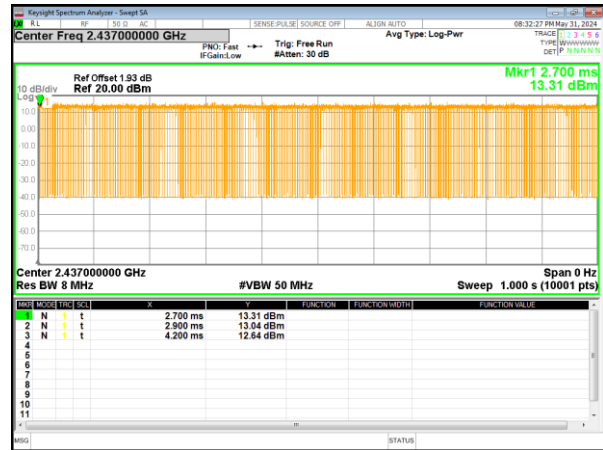
Correction Factor (dB)=10lg(1/ Duty Cycle (%))

Test plot as follows:

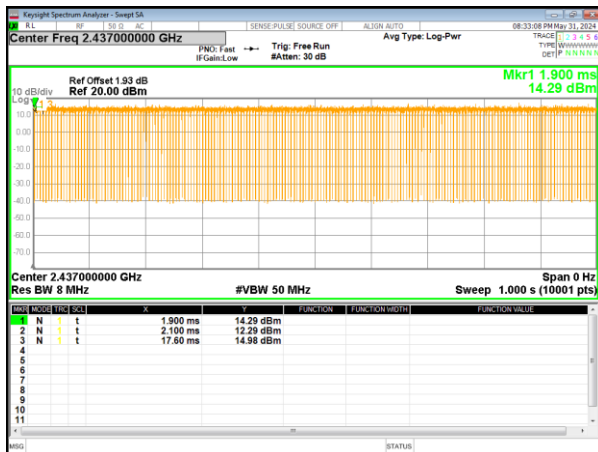
(802.11b) plot on channel 6



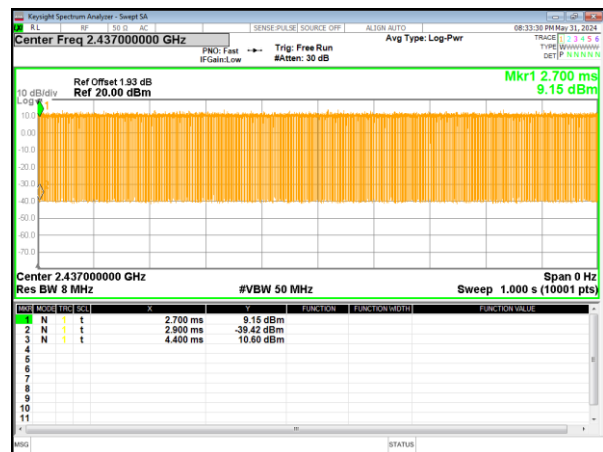
(802.11 g) plot on channel 6



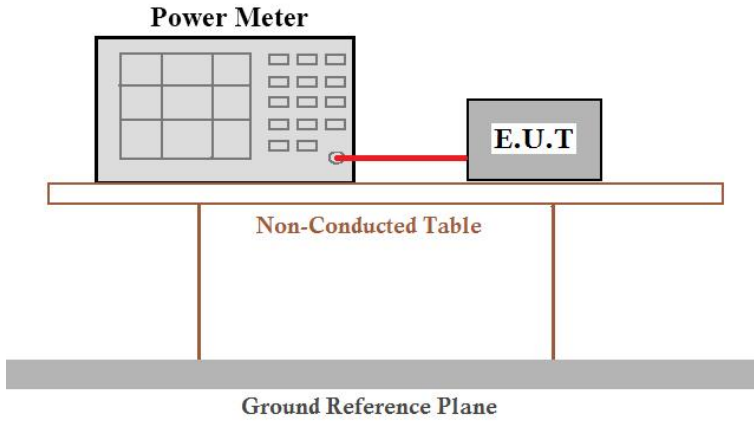
(802.11n20) plot on channel 6



(802.11 n40) plot on channel 6



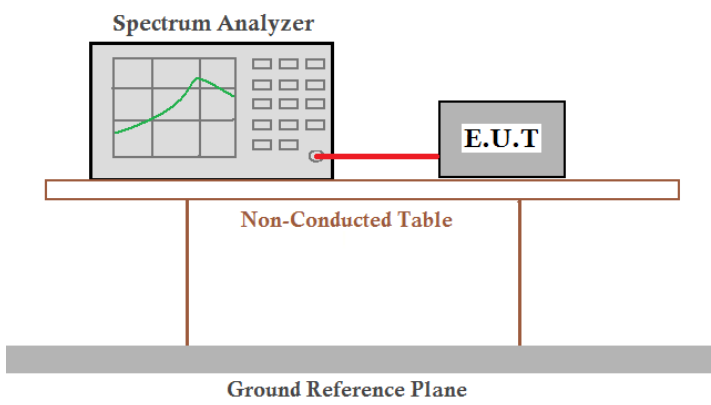
#### 4.4 Conducted Peak Output Power

Test Requirement :	FCC Part15 C Section 15.247 (b)(3)	
Test Method :	KDB 558074 D01 15.247 Meas Guidance v05r02	
Limit:	30dBm	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.9°C	Humid.: 51%RH
Test voltage:	AC 120V	
Test results:	Pass	

#### Measurement Result

Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	14.09	15.40	15.11	13.77	30.00	Pass
Middle	14.58	15.85	15.64	13.80		
Highest	14.63	15.78	15.86	13.97		

### 4.5 6dB Bandwidth

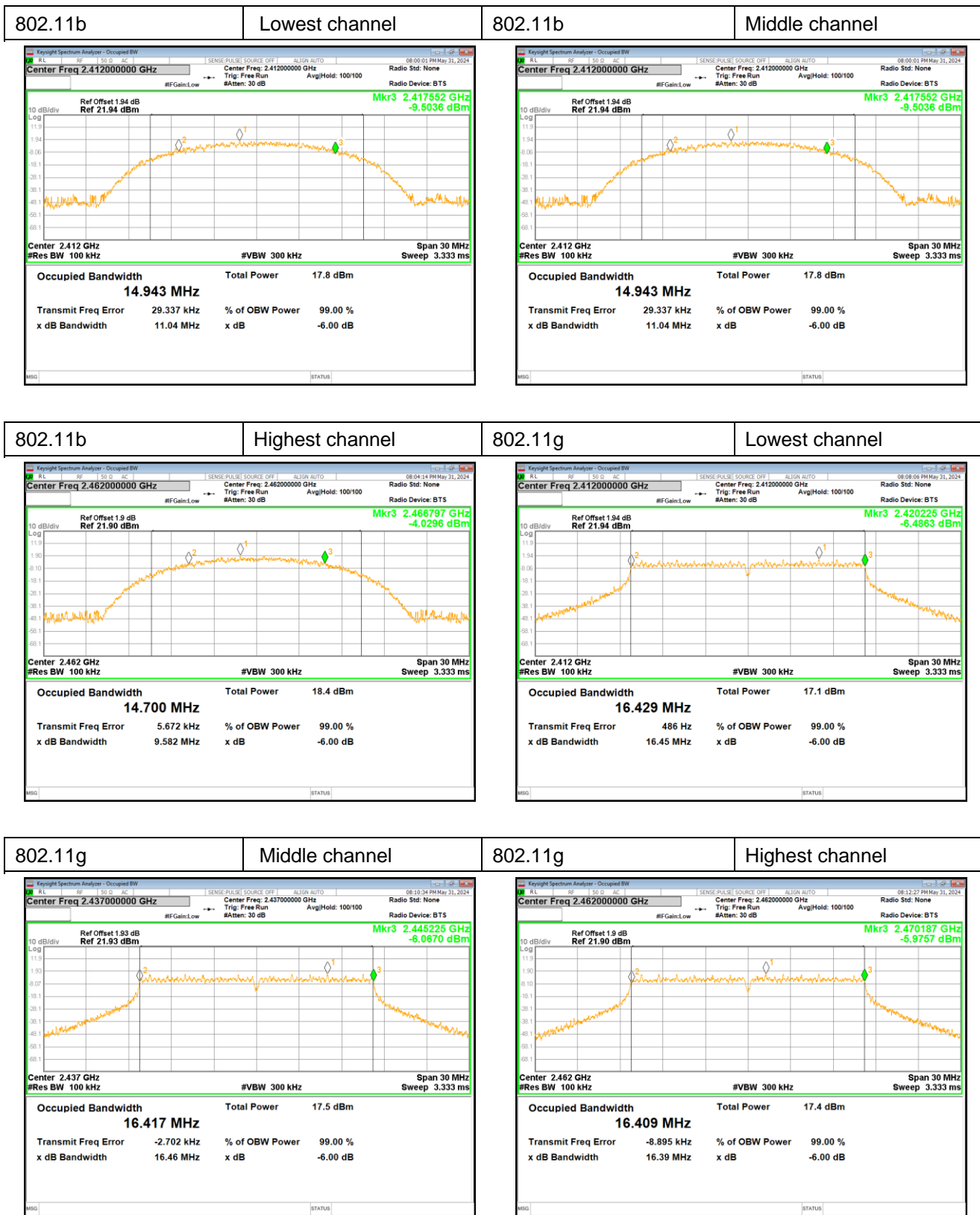
Test Requirement :	FCC Part15 C Section 15.247 (a)(2)	
Test Method :	KDB 558074 D01 15.247 Meas Guidance v05r02	
Limit:	>500KHz	
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.9°C	Humid.: 51%RH
Test voltage:	AC 120V	
Test results:	Pass	

### Measurement Result

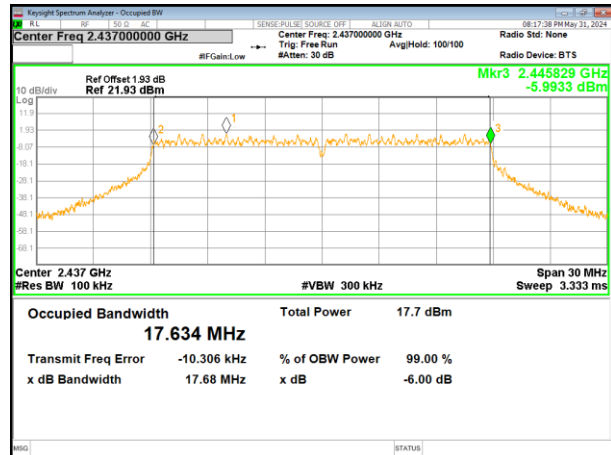
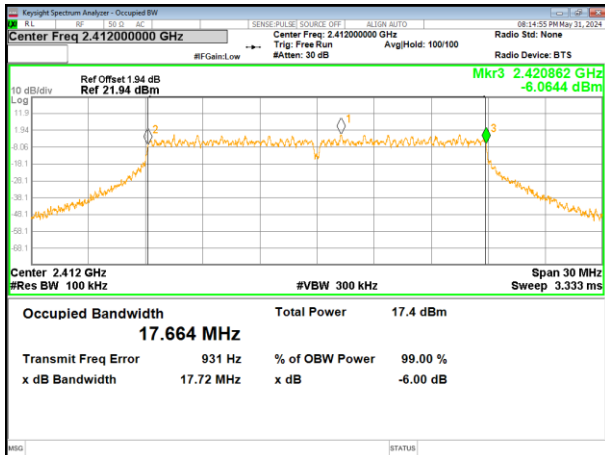
Test CH	6dB Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	11.04	16.45	17.72	36.41	>500	Pass
Middle	9.389	16.46	17.68	36.09		
Highest	9.582	16.39	17.66	36.40		



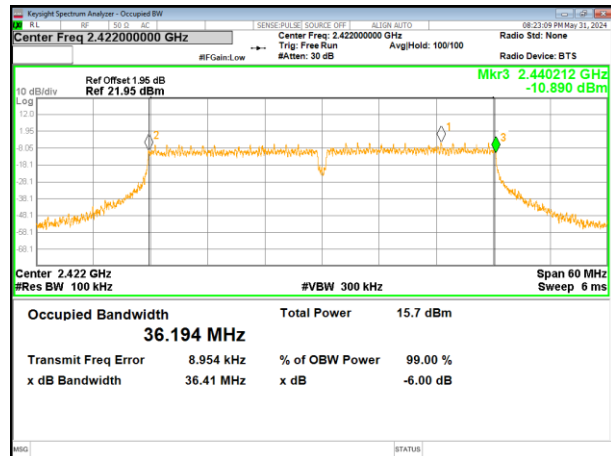
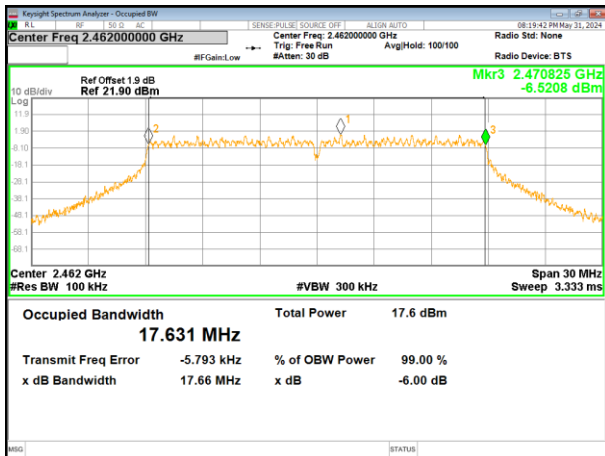
Test plot as follows:



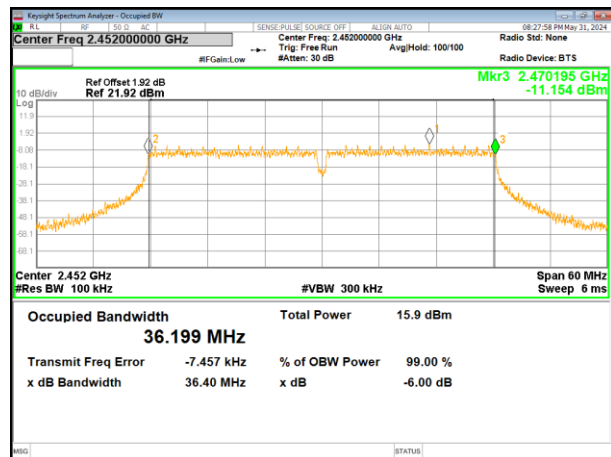
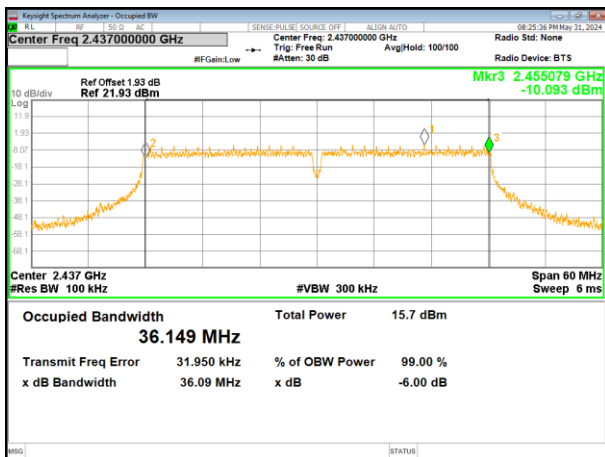
802.11n20	Lowest channel	802.11n20	Middle channel
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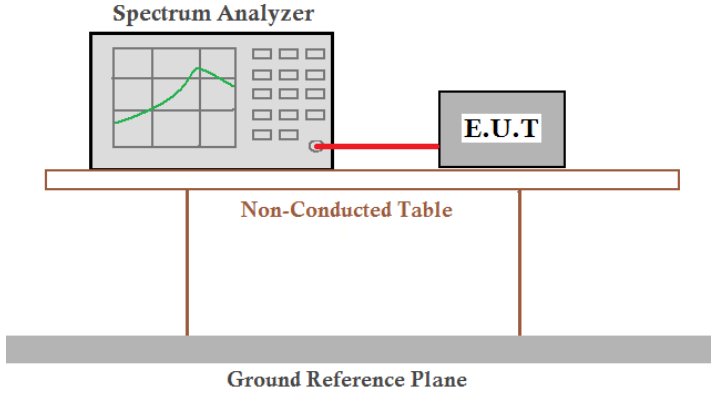
802.11n20	Highest channel	802.11n40	Lowest channel
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802.11n40	Middle channel	802.11n40	Highest channel
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### 4.6 Power Spectral Density

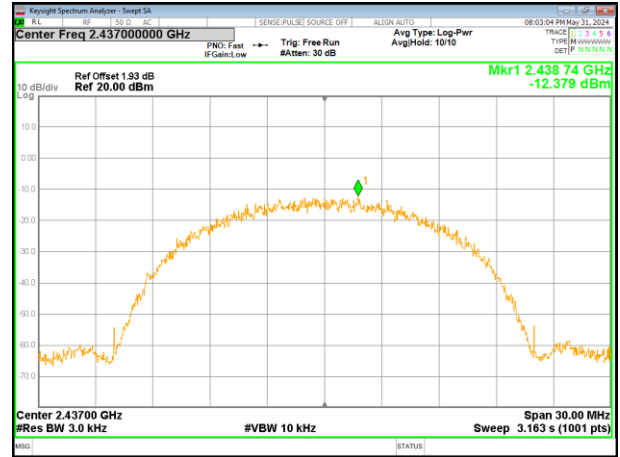
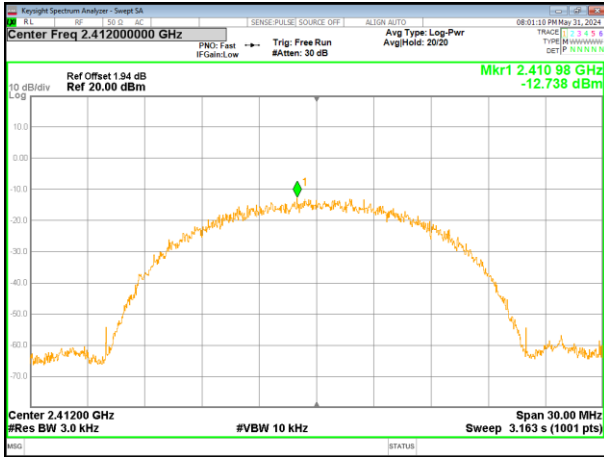
Test Requirement:	FCC Part15 C Section 15.247 (e)	
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02	
Limit:	8dBm/3kHz	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.9°C	Humid.: 51%RH
Test voltage:	AC 120V	
Test results:	Pass	

### Measurement Result

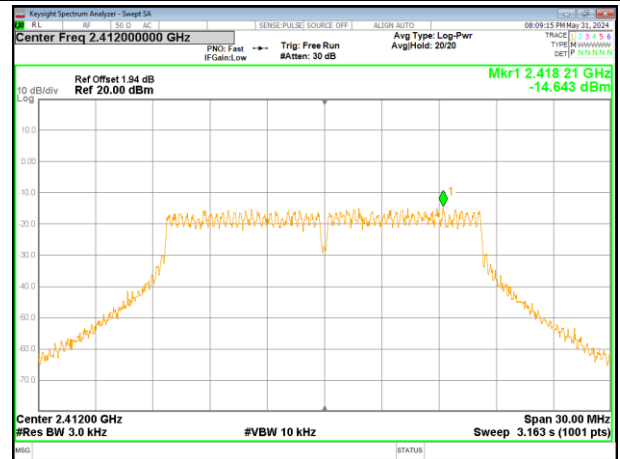
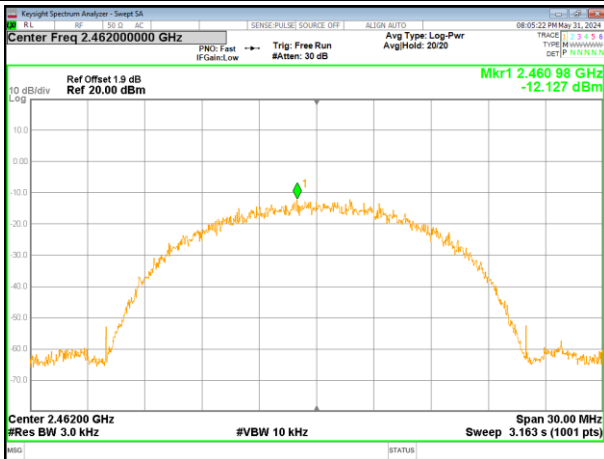
Test CH	Power Spectral Density (dBm/3kHz)				Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	-12.738	-14.643	-14.573	-19.315	8.00	Pass
Middle	-12.379	-14.161	-14.550	-19.413		
Highest	-12.127	-14.577	-14.566	-19.369		

Test plot as follows:

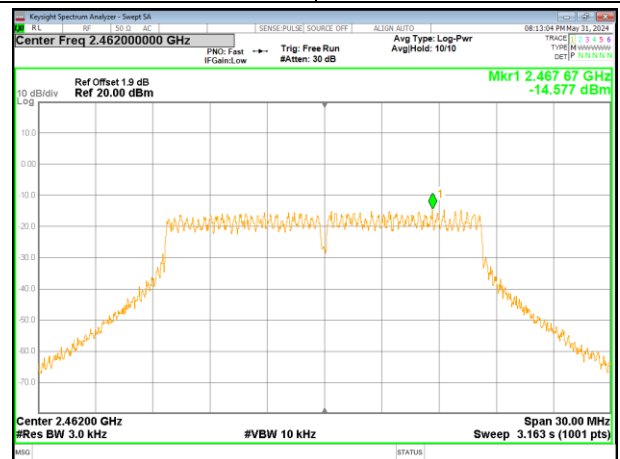
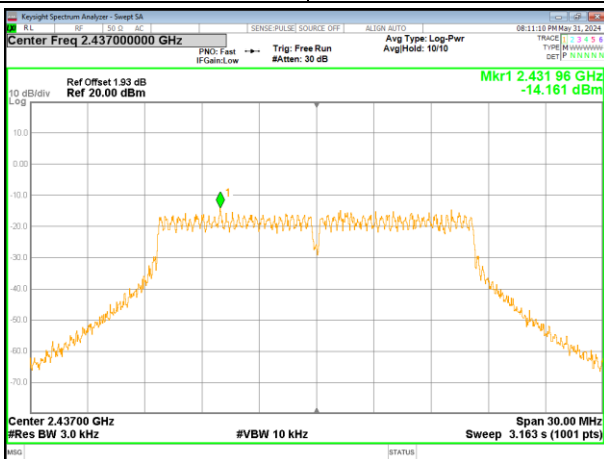
802.11b	Lowest channel	802.11b	Middle channel
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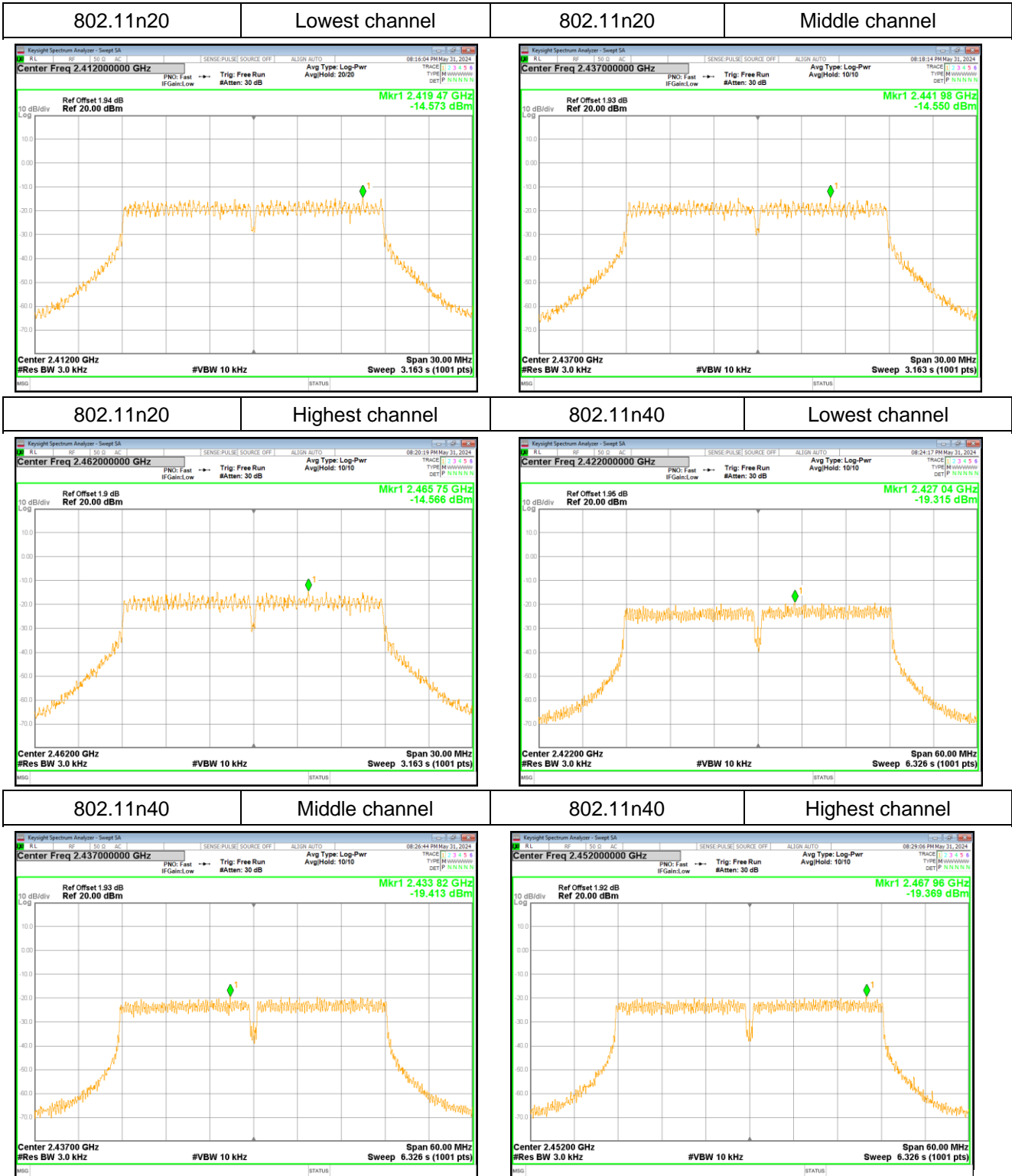


802.11b	Highest channel	802.11g	Lowest channel
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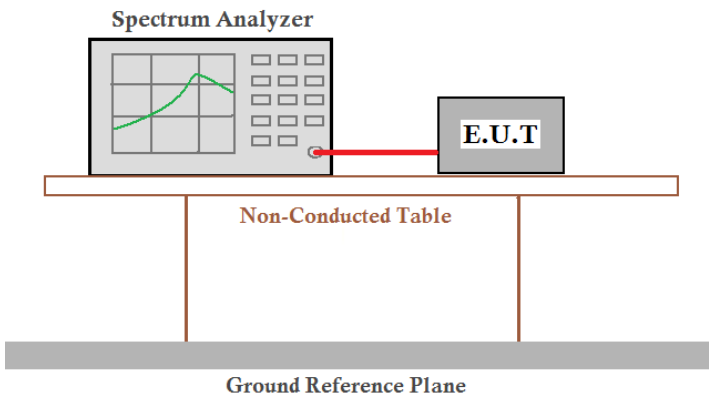
802.11g	Middle channel	802.11g	Highest channel
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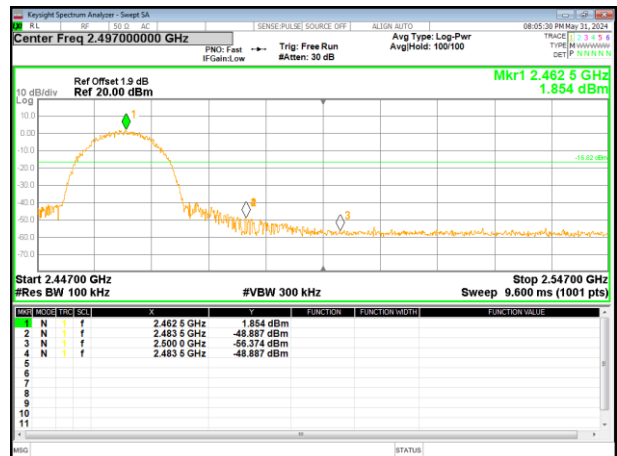
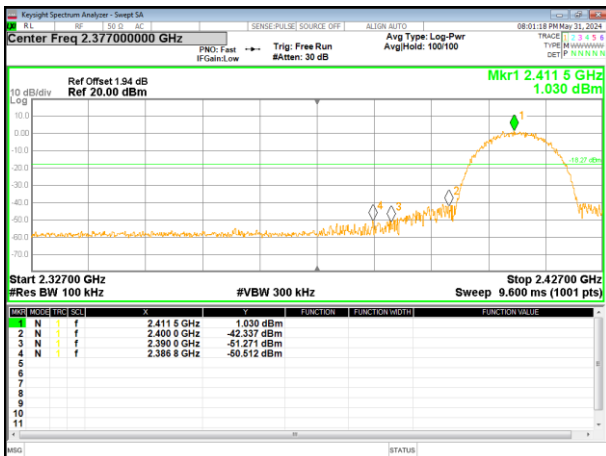
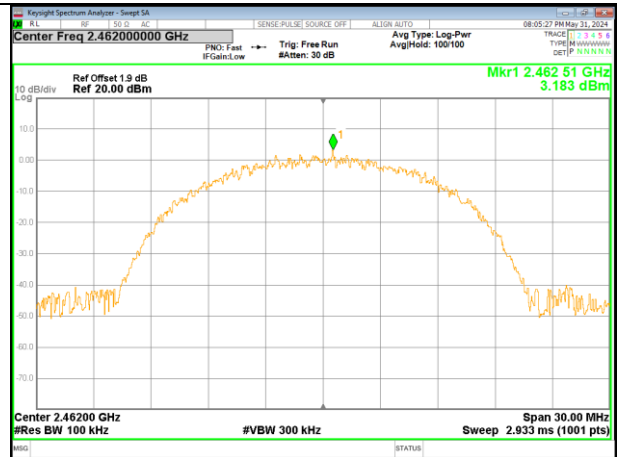
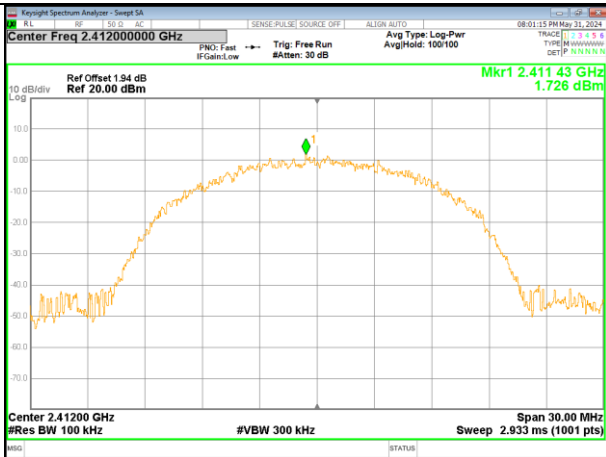
## 4.7 Band edges

### Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d), RSS-247 §5.2.b	
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.	
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.9°C	Humid.: 51%RH
Test voltage:	AC 120V	
Test results:	Pass	

Test plot as follows:

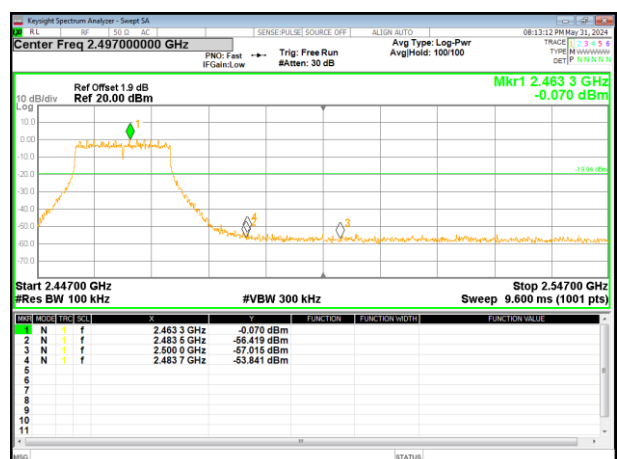
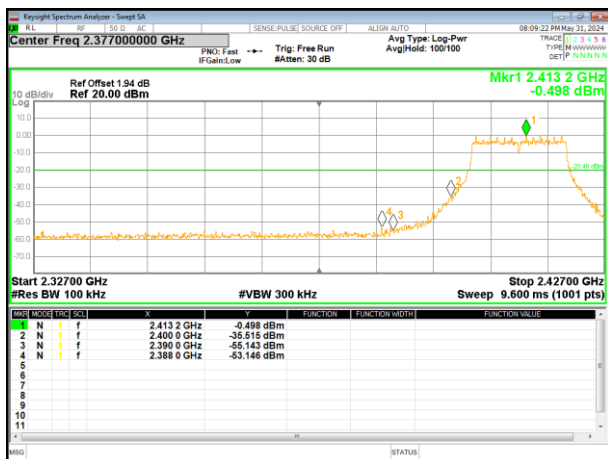
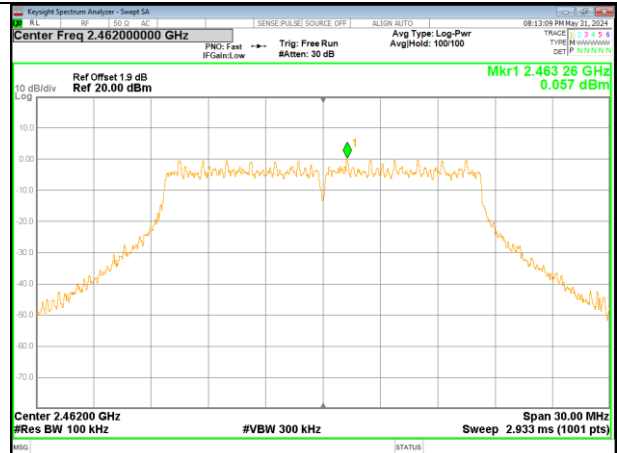
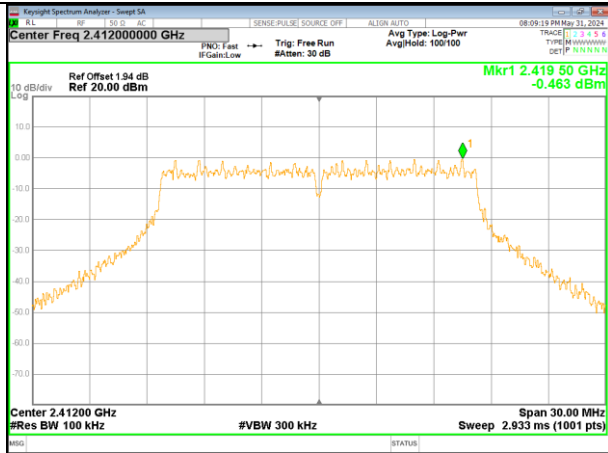
Test mode: 802.11b



Lowest channel

Highest channel

Test mode: 802.11g

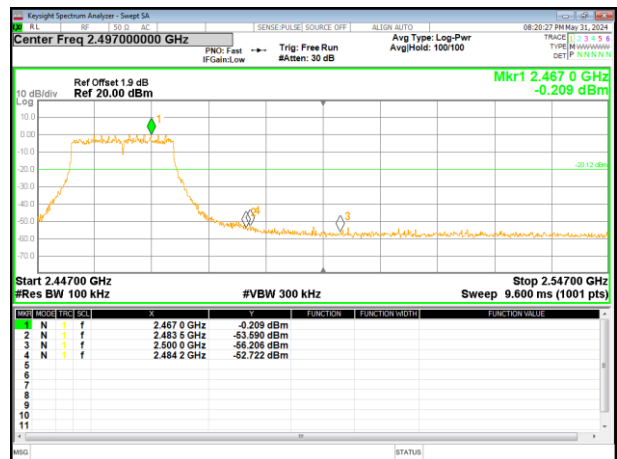
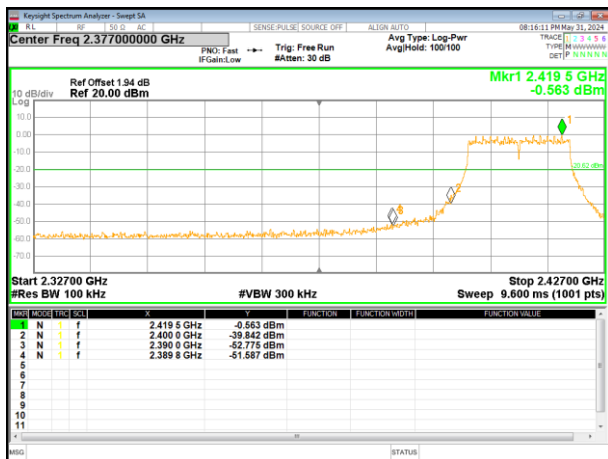
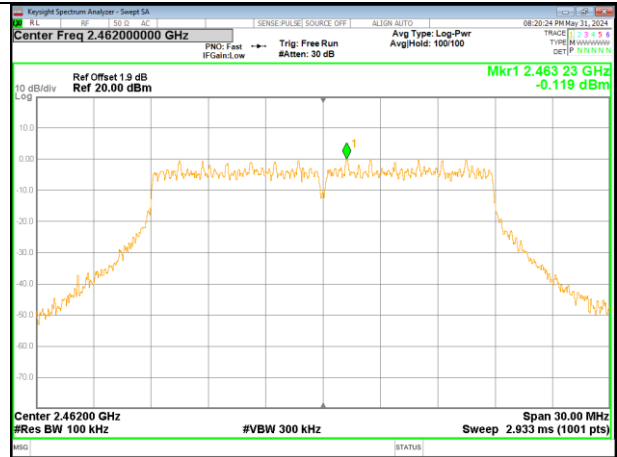
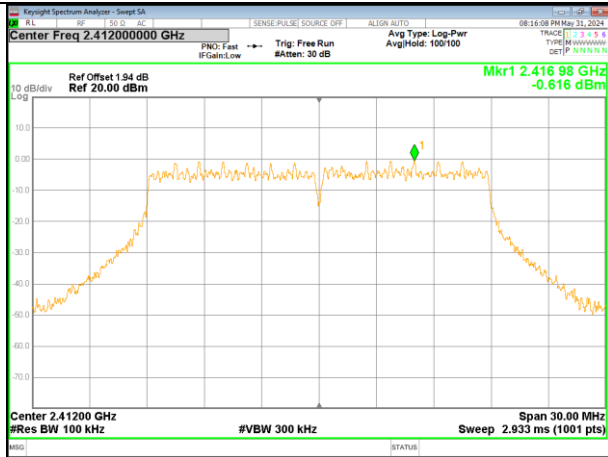


Lowest channel

Highest channel



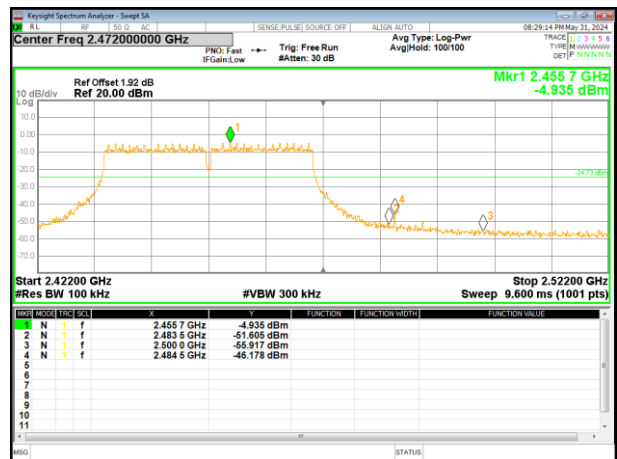
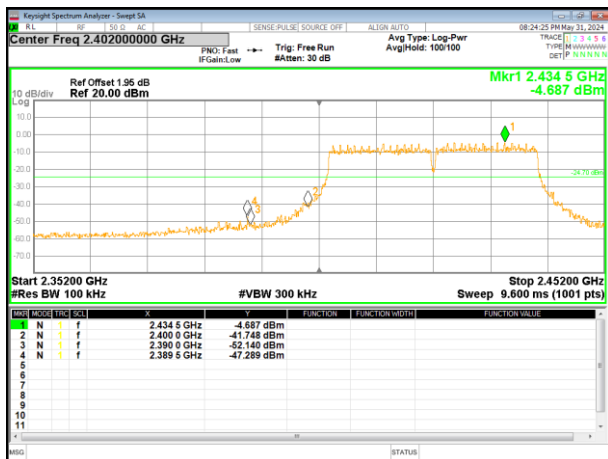
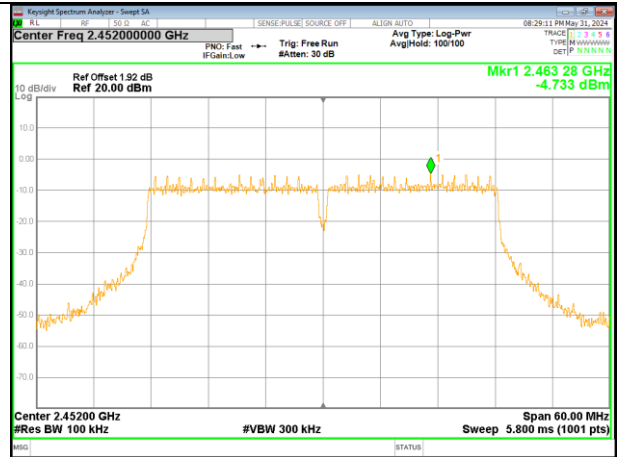
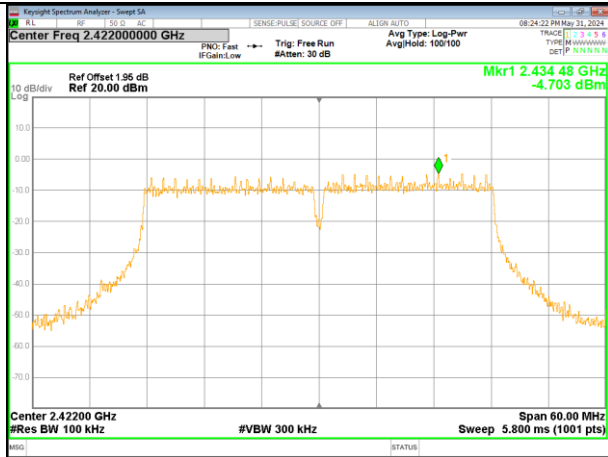
Test mode: 802.11n20



Lowest channel

Highest channel

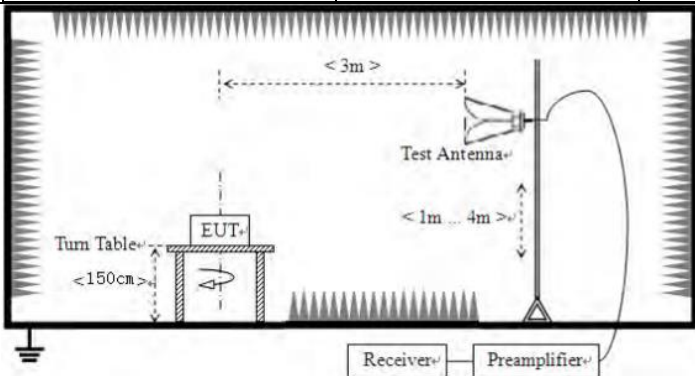
Test mode: 802.11n40



Lowest channel

Highest channel

**Radiated Emission Method**

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Average	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:					
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> <li>7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.</li> </ol>				
Test Instruments:	Refer to section 3.0 for details				
Test mode:	Refer to section 2.2 for details				
Test environment:	Temp.: 24.9°C		Humid.: 51%RH		
Test voltage:	AC 120V				
Test results:	Pass				

**Measurement data:**

Test mode:	802.11b	Test channel:	Lowest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	73.28	27.40	3.43	45.40	58.71	74.00	-15.29	Horizontal
2390.00	77.15	27.10	3.43	45.40	62.28	74.00	-11.72	Horizontal
2310.00	73.04	27.40	3.43	45.40	58.47	74.00	-15.53	Vertical
2390.00	76.58	27.10	3.43	45.40	61.71	74.00	-12.29	Vertical

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	54.36	27.40	3.43	45.40	39.79	54.00	-14.21	Horizontal
2390.00	58.14	27.10	3.43	45.40	43.27	54.00	-10.73	Horizontal
2310.00	55.09	27.40	3.43	45.40	40.52	54.00	-13.48	Vertical
2390.00	58.52	27.10	3.43	45.40	43.65	54.00	-10.35	Vertical

Test mode:	802.11b	Test channel:	Highest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	76.31	27.80	3.56	45.40	62.27	74.00	-11.73	Horizontal
2500.00	72.04	27.80	3.56	45.40	58.00	74.00	-16.00	Horizontal
2483.50	77.14	27.80	3.56	45.40	63.10	74.00	-10.90	Vertical
2500.00	72.75	27.80	3.56	45.40	58.71	74.00	-15.29	Vertical

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	58.84	27.80	3.56	45.40	44.80	54.00	-9.20	Horizontal
2500.00	56.49	27.80	3.56	45.40	42.45	54.00	-11.55	Horizontal
2483.50	57.75	27.80	3.56	45.40	43.71	54.00	-10.29	Vertical
2500.00	56.42	27.80	3.56	45.40	42.38	54.00	-11.62	Vertical

**Remarks:**

1. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
2. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
3. Emissions more than 20 dB below the limit do not need to be reported.

Test mode:	802.11g	Test channel:	Lowest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	79.07	27.40	3.43	45.40	64.50	74.00	-9.50	Horizontal
2390.00	80.63	27.10	3.43	45.40	65.76	74.00	-8.24	Horizontal
2310.00	78.84	27.40	3.43	45.40	64.27	74.00	-9.73	Vertical
2390.00	78.15	27.10	3.43	45.40	63.28	74.00	-10.72	Vertical

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	56.94	27.40	3.43	45.40	42.37	54.00	-11.63	Horizontal
2390.00	58.56	27.10	3.43	45.40	43.69	54.00	-10.31	Horizontal
2310.00	57.83	27.40	3.43	45.40	43.26	54.00	-10.74	Vertical
2390.00	59.31	27.10	3.43	45.40	44.44	54.00	-9.56	Vertical

Test mode:	802.11g	Test channel:	Highest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	75.04	27.80	3.56	45.40	61.00	74.00	-13.00	Horizontal
2500.00	70.77	27.80	3.56	45.40	56.73	74.00	-17.27	Horizontal
2483.50	75.37	27.80	3.56	45.40	61.33	74.00	-12.67	Vertical
2500.00	76.68	27.80	3.56	45.40	62.64	74.00	-11.36	Vertical

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	56.69	27.80	3.56	45.40	42.65	54.00	-11.35	Horizontal
2500.00	52.39	27.80	3.56	45.40	38.35	54.00	-15.65	Horizontal
2483.50	56.42	27.80	3.56	45.40	42.38	54.00	-11.62	Vertical
2500.00	53.04	27.80	3.56	45.40	39.00	54.00	-15.00	Vertical

*Remarks:*

4. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
5. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
6. Emissions more than 20 dB below the limit do not need to be reported.

Test mode:	802.11n(HT20)	Test channel:	Lowest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	72.83	27.40	3.43	45.40	58.26	74.00	-15.74	Horizontal
2390.00	75.75	27.10	3.43	45.40	60.88	74.00	-13.12	Horizontal
2310.00	72.89	27.40	3.43	45.40	58.32	74.00	-15.68	Vertical
2390.00	77.44	27.10	3.43	45.40	62.57	74.00	-11.43	Vertical

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	72.83	27.40	3.43	45.40	58.26	74.00	-15.74	Horizontal
2390.00	75.75	27.10	3.43	45.40	60.88	74.00	-13.12	Horizontal
2310.00	72.89	27.40	3.43	45.40	58.32	74.00	-15.68	Vertical
2390.00	77.44	27.10	3.43	45.40	62.57	74.00	-11.43	Vertical

Test mode:	802.11n(HT20)	Test channel:	Highest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	71.60	27.80	3.56	45.40	57.56	74.00	-16.44	Horizontal
2500.00	71.17	27.80	3.56	45.40	57.13	74.00	-16.87	Horizontal
2483.50	71.11	27.80	3.56	45.40	57.07	74.00	-16.93	Vertical
2500.00	73.49	27.80	3.56	45.40	59.45	74.00	-14.55	Vertical

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	56.29	27.80	3.56	45.40	42.25	54.00	-11.75	Horizontal
2500.00	52.67	27.80	3.56	45.40	38.63	54.00	-15.37	Horizontal
2483.50	55.74	27.80	3.56	45.40	41.70	54.00	-12.30	Vertical
2500.00	52.29	27.80	3.56	45.40	38.25	54.00	-15.75	Vertical

**Remarks:**

7. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
8. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
9. Emissions more than 20 dB below the limit do not need to be reported.

Test mode:	802.11n(HT40)	Test channel:	Lowest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	75.91	27.40	3.43	45.40	61.34	74.00	-12.66	Horizontal
2390.00	73.58	27.10	3.43	45.40	58.71	74.00	-15.29	Horizontal
2310.00	77.15	27.40	3.43	45.40	62.58	74.00	-11.42	Vertical
2390.00	75.60	27.10	3.43	45.40	60.73	74.00	-13.27	Vertical

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	54.33	27.40	3.43	45.40	39.76	54.00	-14.24	Horizontal
2390.00	57.99	27.10	3.43	45.40	43.12	54.00	-10.88	Horizontal
2310.00	54.01	27.40	3.43	45.40	39.44	54.00	-14.56	Vertical
2390.00	58.70	27.10	3.43	45.40	43.83	54.00	-10.17	Vertical

Test mode:	802.11n(HT40)	Test channel:	Highest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	76.02	27.80	3.56	45.40	61.98	74.00	-12.02	Horizontal
2500.00	71.88	27.80	3.56	45.40	57.84	74.00	-16.16	Horizontal
2483.50	75.79	27.80	3.56	45.40	61.75	74.00	-12.25	Vertical
2500.00	71.23	27.80	3.56	45.40	57.19	74.00	-16.81	Vertical

**Average value:**

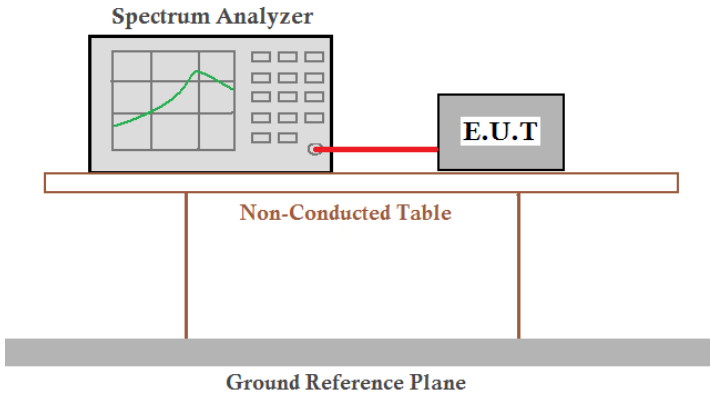
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	55.59	27.80	3.56	45.40	41.55	54.00	-12.45	Horizontal
2500.00	52.16	27.80	3.56	45.40	38.12	54.00	-15.88	Horizontal
2483.50	56.54	27.80	3.56	45.40	42.50	54.00	-11.50	Vertical
2500.00	51.91	27.80	3.56	45.40	37.87	54.00	-16.13	Vertical

**Remarks:**

10. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
11. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
12. Emissions more than 20 dB below the limit do not need to be reported.

## 4.8 Spurious Emission

### Conducted Emission Method

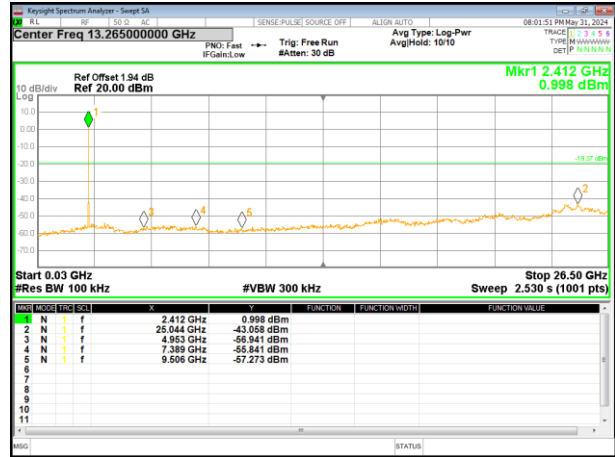
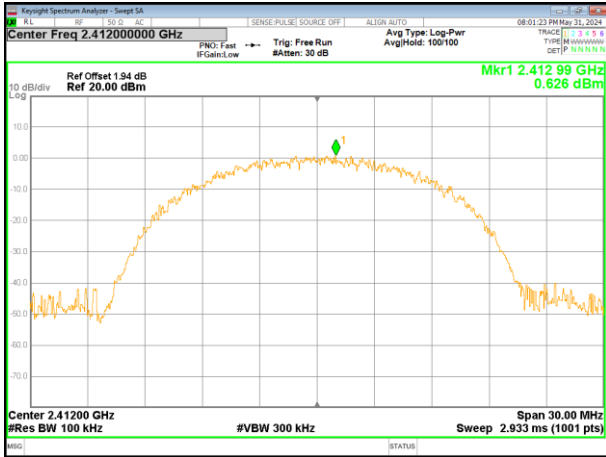
Test Requirement:	FCC Part15 C Section 15.247 (d)	
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.	
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by two legs. Below the table is a Ground Reference Plane.</p>	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 24.9°C	Humid.: 51%RH
Test voltage:	AC 120V	
Test results:	Pass	



Test plot as follows:

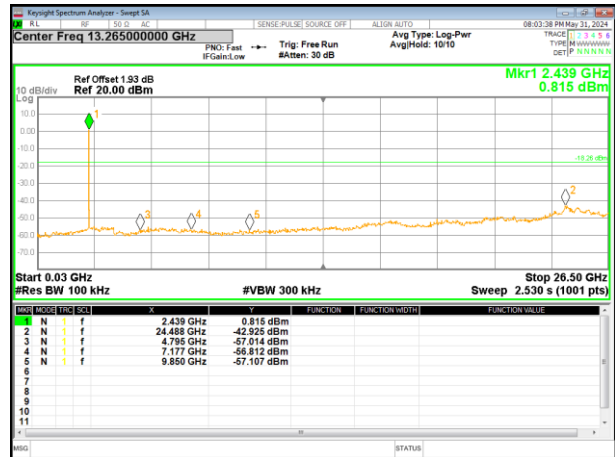
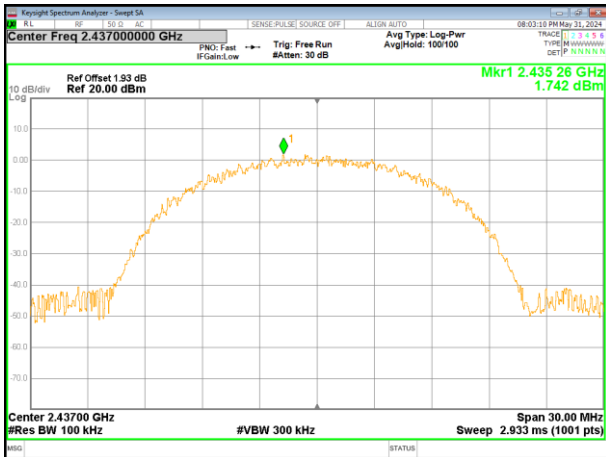
802.11b

Lowest channel



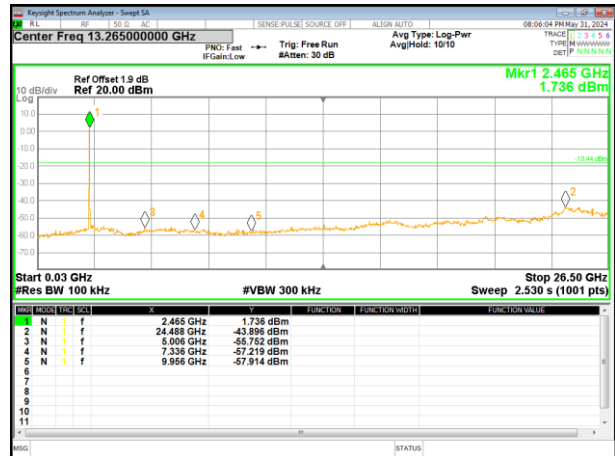
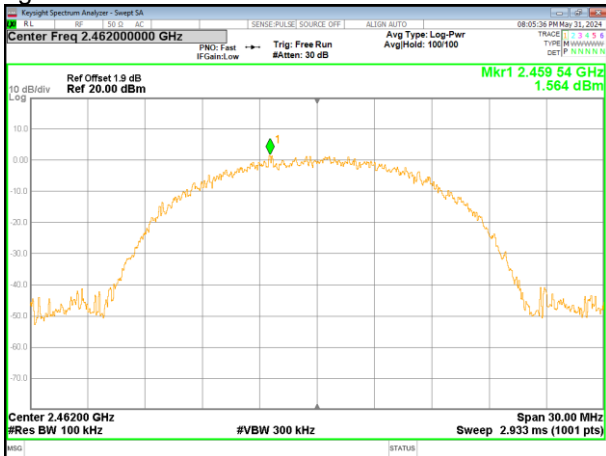
30MHz~25GHz

Middle channel



30MHz~25GHz

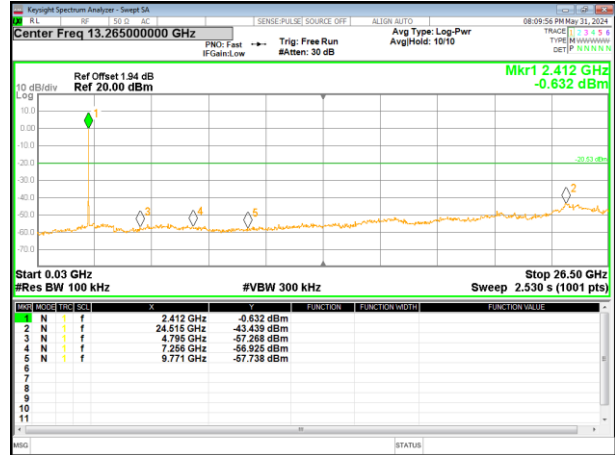
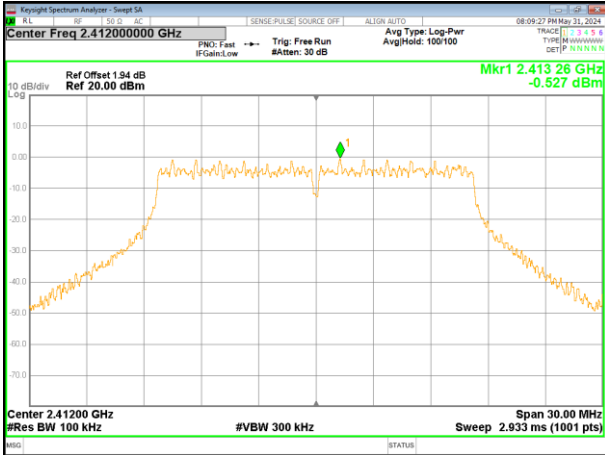
Highest channel



30MHz~25GHz

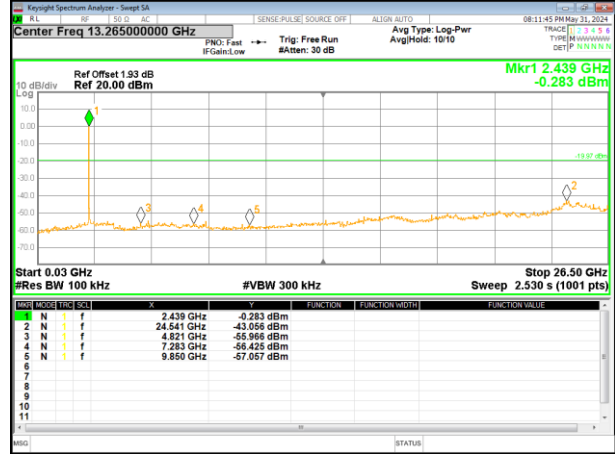
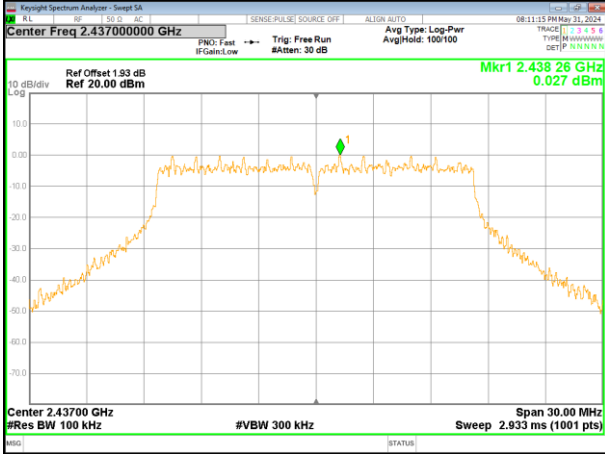
802.11g

Lowest channel



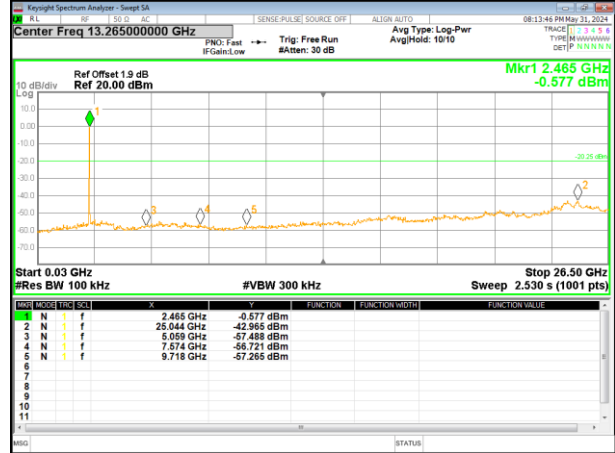
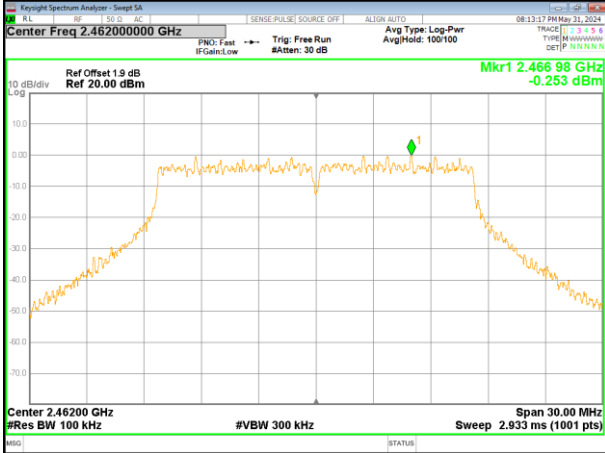
30MHz~25GHz

Middle channel



30MHz~25GHz

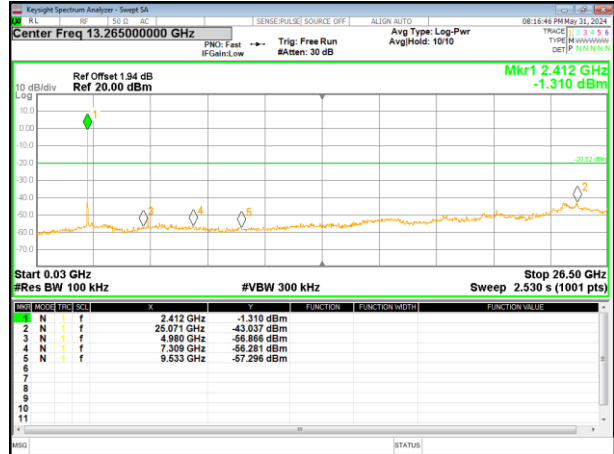
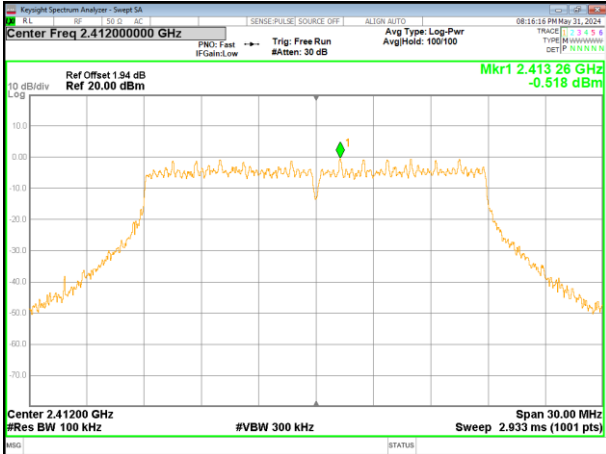
Highest channel



30MHz~25GHz

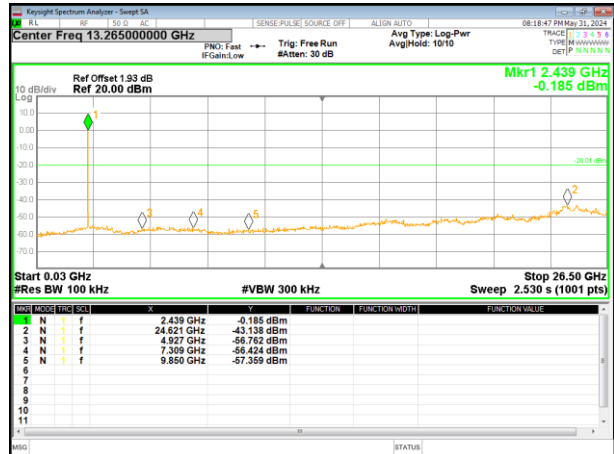
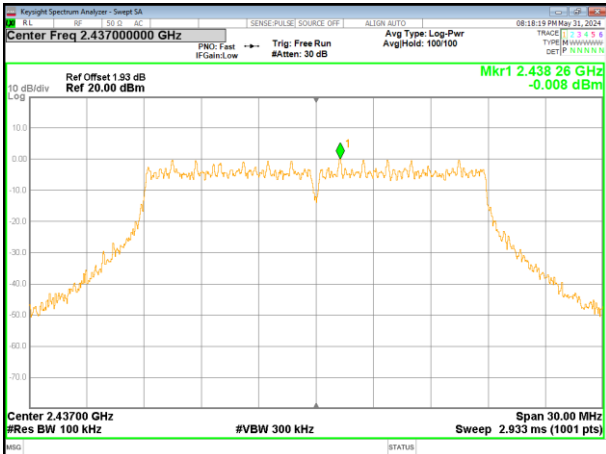
802.11n20

Lowest channel



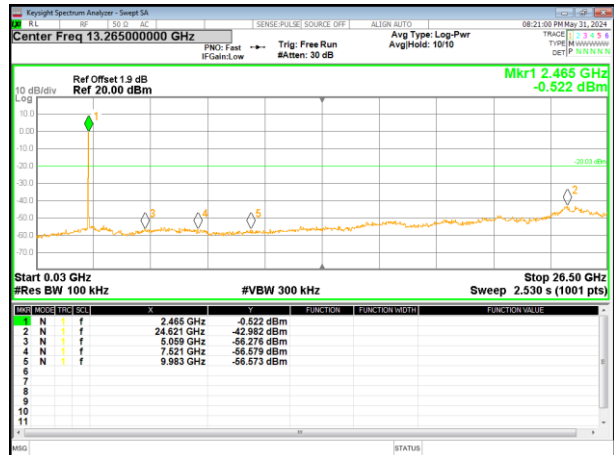
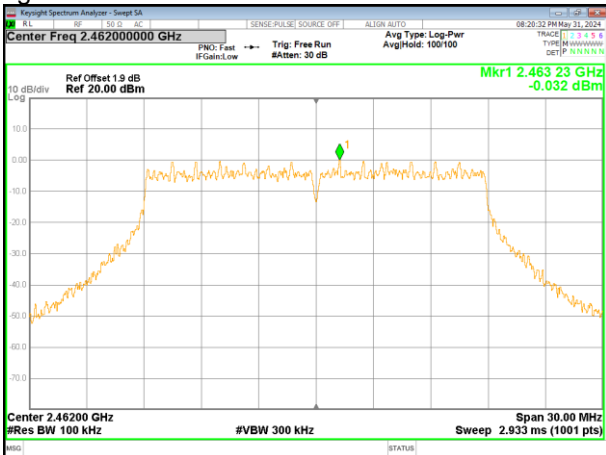
30MHz~25GHz

Middle channel



30MHz~25GHz

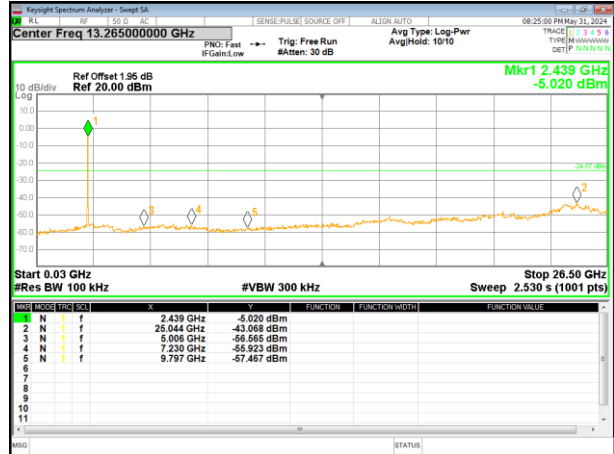
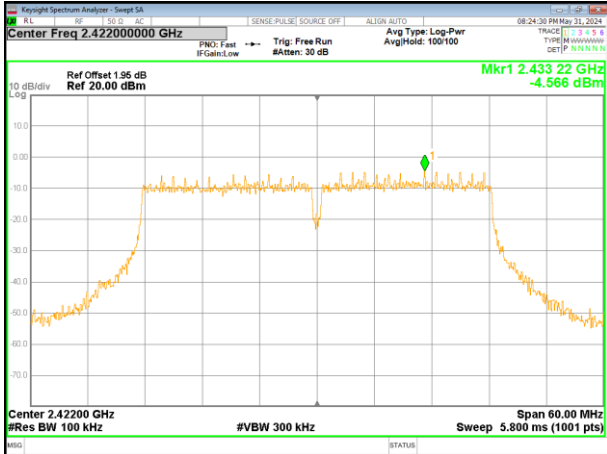
Highest channel



30MHz~25GHz

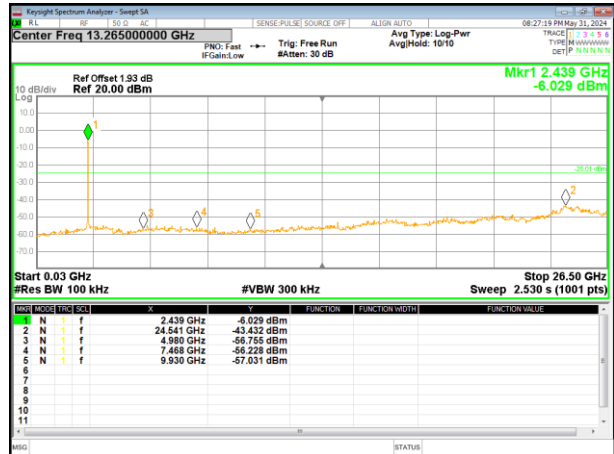
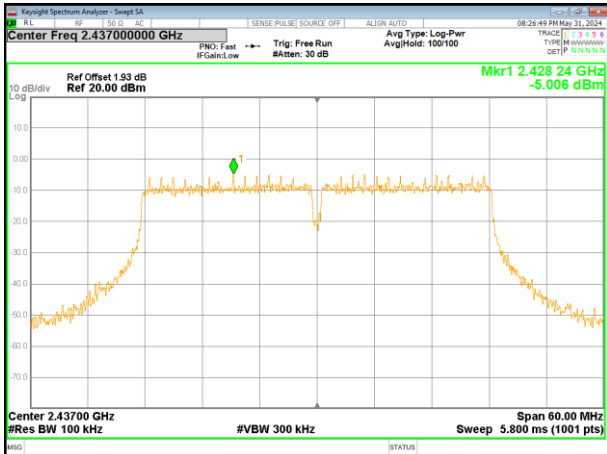
802.11n40

Lowest channel



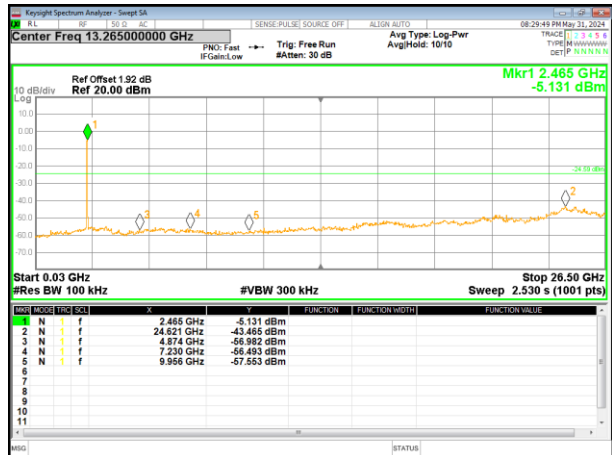
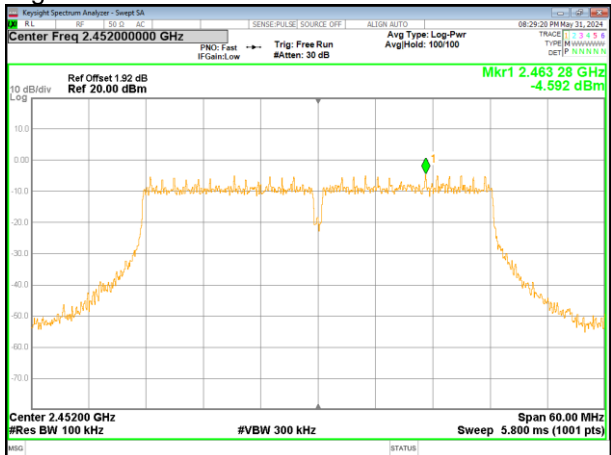
30MHz~25GHz

Middle channel



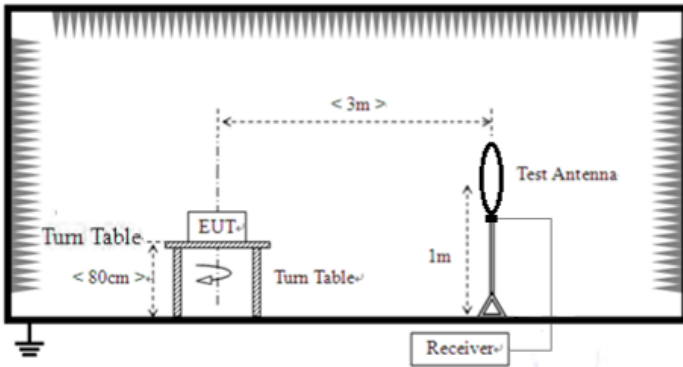
30MHz~25GHz

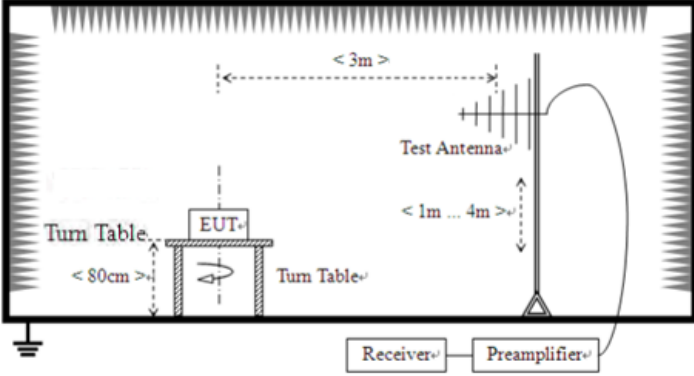
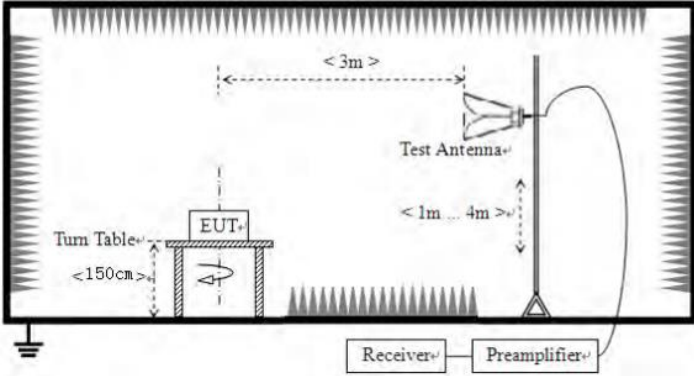
Highest channel



30MHz~25GHz

**Radiated Emission Method**

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
For radiated emissions from 30MHz to 1GHz					

	 <p>For radiated emissions above 1GHz</p> 
<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>
<p>Test Instruments:</p>	<p>Refer to section 3.0 for details</p>
<p>Test mode:</p>	<p>Refer to section 2.2 for details</p>

Test environment:	Temp.:	24.9 °C	Humid.:	51%	Press.:	1012mbar
Test voltage:	AC 120V					
Test results:	Pass					

*Remarks:*

- 1. The report only shows the worst mode.*
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.*

**Measurement data:**

■ **9kHz~30MHz**

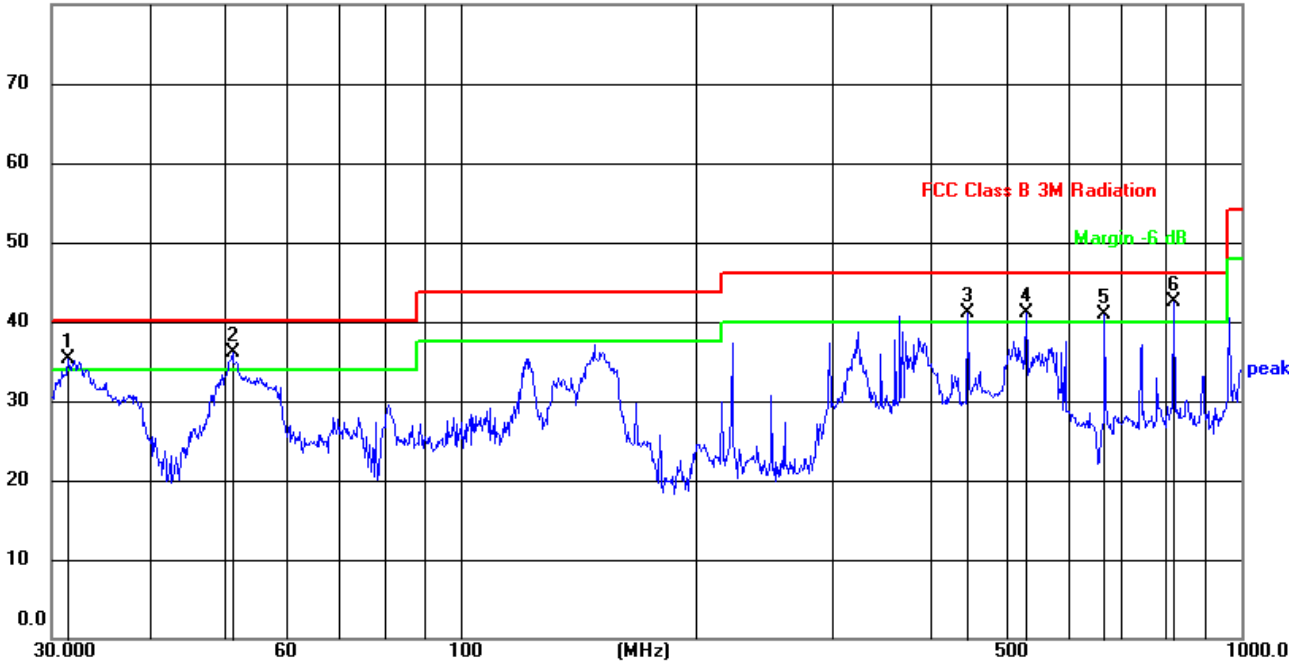
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

■ **Below 1GHz**

All mode has been tested, the report only shows the worst mode (802.11n 2462MHz).

Vertical:

80.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.5092	57.74	-22.45	35.29	40.00	-4.71	QP
2	51.1208	57.99	-21.90	36.09	40.00	-3.91	QP
3	446.4139	56.85	-15.65	41.20	46.00	-4.80	QP
4	530.1013	54.42	-13.38	41.04	46.00	-4.96	QP
5	668.1422	51.04	-10.10	40.94	46.00	-5.06	QP
6	818.8337	48.94	-6.41	42.53	46.00	-3.47	QP

Remarks:

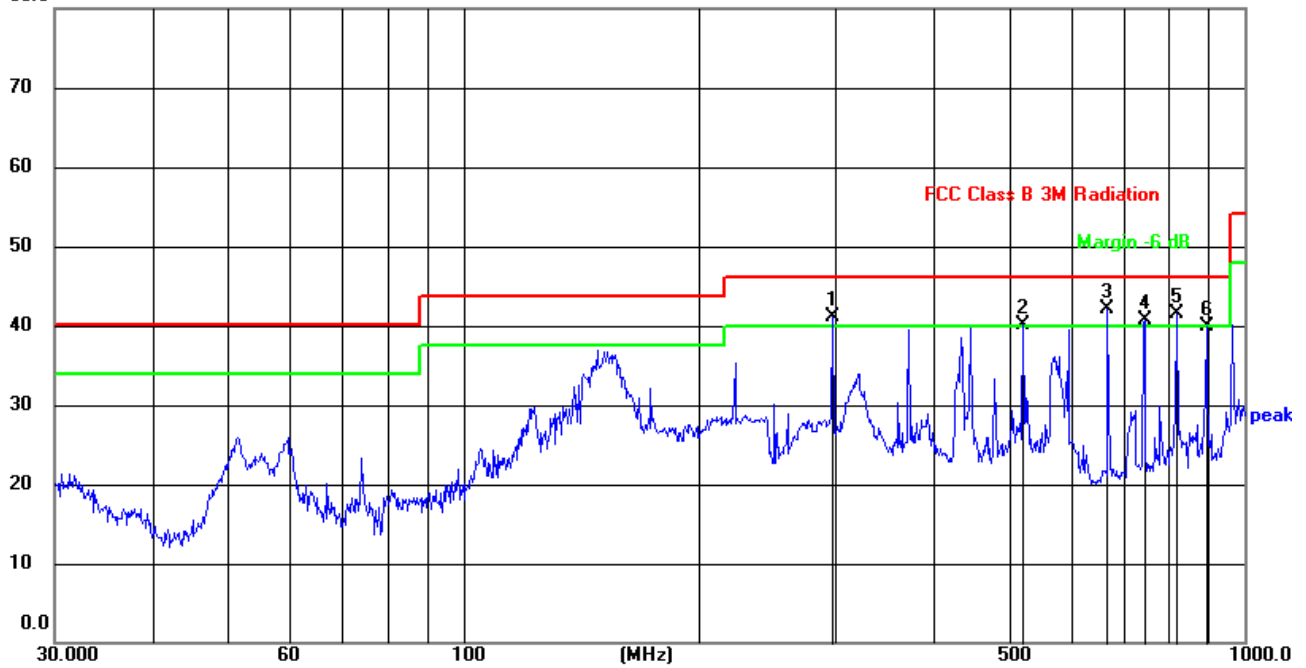
Level = Receiver Reading + Factor

Factor = Antenna Factor + Cable Factor - Preamplifier Factor



**Horizontal:**

80.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	297.2238	61.44	-20.40	41.04	46.00	-4.96	QP
2	520.8881	53.83	-13.63	40.20	46.00	-5.80	QP
3	668.1422	52.12	-10.10	42.02	46.00	-3.98	QP
4	744.8659	48.88	-8.21	40.67	46.00	-5.33	QP
5	818.8338	47.94	-6.41	41.53	46.00	-4.47	QP
6	893.8564	45.46	-5.54	39.92	46.00	-6.08	QP

*Remarks:*

*Level = Receiver Reading + Factor*

*Factor = Antenna Factor + Cable Factor – Preamplifier Factor*

■ Above 1GHz

Test mode:	802.11b	Test channel:	Lowest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	62.87	32.10	5.96	45.50	55.43	74.00	-18.57	Vertical
7236.00	58.44	36.60	6.93	45.60	56.37	74.00	-17.63	Vertical
9648.00	58.77	38.60	8.02	46.20	59.19	74.00	-14.81	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	61.90	32.10	5.96	45.50	54.46	74.00	-19.54	Horizontal
7236.00	58.74	36.60	6.93	45.60	56.67	74.00	-17.33	Horizontal
9648.00	57.08	38.60	8.02	46.20	57.50	74.00	-16.50	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	62.87	32.10	5.96	45.50	55.43	74.00	-18.57	Vertical
7236.00	58.44	36.60	6.93	45.60	56.37	74.00	-17.63	Vertical
9648.00	58.77	38.60	8.02	46.20	59.19	74.00	-14.81	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	61.90	32.10	5.96	45.50	54.46	74.00	-19.54	Horizontal
7236.00	58.74	36.60	6.93	45.60	56.67	74.00	-17.33	Horizontal
9648.00	57.08	38.60	8.02	46.20	57.50	74.00	-16.50	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. Emissions more than 20 dB below the limit do not need to be reported.

Test mode:	802.11b	Test channel:	Middle
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	57.59	32.40	5.96	45.50	50.45	74.00	-23.55	Vertical
7311.00	56.60	36.60	6.93	45.60	54.53	74.00	-19.47	Vertical
9748.00	57.90	38.00	8.02	46.20	57.72	74.00	-16.28	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	58.60	32.40	5.96	45.50	51.46	74.00	-22.54	Horizontal
7311.00	54.17	36.60	6.93	45.60	52.10	74.00	-21.90	Horizontal
9748.00	56.96	38.00	8.02	46.20	56.78	74.00	-17.22	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	46.35	32.40	5.96	45.50	39.21	54.00	-14.79	Vertical
7311.00	42.52	36.60	6.93	45.60	40.45	54.00	-13.55	Vertical
9748.00	45.32	38.00	8.02	46.20	45.14	54.00	-8.86	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	45.89	32.40	5.96	45.50	38.75	54.00	-15.25	Horizontal
7311.00	42.61	36.60	6.93	45.60	40.54	54.00	-13.46	Horizontal
9748.00	43.13	38.00	8.02	46.20	42.95	54.00	-11.05	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is too weak instrument of signal is unable to test.
3. Emissions more than 20 dB below the limit do not need to be reported.

Test mode:	802.11b	Test channel:	Highest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	60.71	32.80	5.96	45.70	53.77	74.00	-20.23	Vertical
7386.00	55.90	36.40	6.93	45.80	53.43	74.00	-20.57	Vertical
9848.00	57.34	38.20	8.02	46.20	57.36	74.00	-16.64	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	62.03	32.80	5.96	45.70	55.09	74.00	-18.91	Horizontal
7386.00	56.09	36.40	6.93	45.80	53.62	74.00	-20.38	Horizontal
9848.00	56.14	38.20	8.02	46.20	56.16	74.00	-17.85	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	49.16	32.80	5.96	45.70	42.22	54.00	-11.78	Vertical
7386.00	45.53	36.40	6.93	45.80	43.06	54.00	-10.94	Vertical
9848.00	45.02	38.20	8.02	46.20	45.04	54.00	-8.96	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	47.08	32.80	5.96	45.70	40.14	54.00	-13.86	Horizontal
7386.00	41.77	36.40	6.93	45.80	39.30	54.00	-14.70	Horizontal
9848.00	42.86	38.20	8.02	46.20	42.88	54.00	-11.12	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is too weak instrument of signal is unable to test.
3. Emissions more than 20 dB below the limit do not need to be reported.

Test mode:	802.11g	Test channel:	lowest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	59.19	32.10	5.96	45.50	51.75	74.00	-22.25	Vertical
7236.00	56.15	36.60	6.93	45.60	54.08	74.00	-19.92	Vertical
9648.00	57.42	38.60	8.02	46.20	57.84	74.00	-16.16	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	57.79	32.10	5.96	45.50	50.35	74.00	-23.65	Horizontal
7236.00	55.94	36.60	6.93	45.60	53.87	74.00	-20.13	Horizontal
9648.00	57.32	38.60	8.02	46.20	57.74	74.00	-16.26	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	47.42	32.10	5.96	45.50	39.98	54.00	-14.02	Vertical
7236.00	42.81	36.60	6.93	45.60	40.74	54.00	-13.26	Vertical
9648.00	44.09	38.60	8.02	46.20	44.51	54.00	-9.49	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	46.95	32.10	5.96	45.50	39.51	54.00	-14.49	Horizontal
7236.00	42.86	36.60	6.93	45.60	40.79	54.00	-13.21	Horizontal
9648.00	43.10	38.60	8.02	46.20	43.52	54.00	-10.48	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is too weak instrument of signal is unable to test.
3. Emissions more than 20 dB below the limit do not need to be reported.

Test mode:	802.11g	Test channel:	Middle
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	58.26	32.40	5.96	45.50	51.12	74.00	-22.88	Vertical
7311.00	55.75	36.60	6.93	45.60	53.68	74.00	-20.32	Vertical
9748.00	56.80	38.00	8.02	46.20	56.62	74.00	-17.38	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	58.43	32.40	5.96	45.50	51.29	74.00	-22.71	Horizontal
7311.00	55.67	36.60	6.93	45.60	53.60	74.00	-20.40	Horizontal
9748.00	57.20	38.00	8.02	46.20	57.02	74.00	-16.98	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	47.53	32.40	5.96	45.50	40.39	54.00	-13.61	Vertical
7311.00	41.59	36.60	6.93	45.60	39.52	54.00	-14.48	Vertical
9748.00	43.55	38.00	8.02	46.20	43.37	54.00	-10.63	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	46.31	32.40	5.96	45.50	39.17	54.00	-14.83	Horizontal
7311.00	42.54	36.60	6.93	45.60	40.47	54.00	-13.53	Horizontal
9748.00	43.21	38.00	8.02	46.20	43.03	54.00	-10.97	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. Emissions more than 20 dB below the limit do not need to be reported.

Test mode:	802.11g	Test channel:	Highest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	61.96	32.80	5.96	45.70	55.02	74.00	-18.98	Vertical
7386.00	57.81	36.40	6.93	45.80	55.34	74.00	-18.66	Vertical
9848.00	57.25	38.20	8.02	46.20	57.27	74.00	-16.73	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	63.01	32.80	5.96	45.70	56.07	74.00	-17.93	Horizontal
7386.00	56.12	36.40	6.93	45.80	53.65	74.00	-20.35	Horizontal
9848.00	56.57	38.20	8.02	46.20	56.59	74.00	-17.41	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	48.93	32.80	5.96	45.70	41.99	54.00	-12.02	Vertical
7386.00	44.85	36.40	6.93	45.80	42.38	54.00	-11.62	Vertical
9848.00	43.95	38.20	8.02	46.20	43.97	54.00	-10.03	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	49.88	32.80	5.96	45.70	42.94	54.00	-11.06	Horizontal
7386.00	43.02	36.40	6.93	45.80	40.55	54.00	-13.45	Horizontal
9848.00	43.23	38.20	8.02	46.20	43.25	54.00	-10.75	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. Emissions more than 20 dB below the limit do not need to be reported.

Test mode:	802.11n(HT20)	Test channel:	Lowest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	61.43	32.10	5.96	45.50	53.99	74.00	-20.01	Vertical
7236.00	58.00	36.60	6.93	45.60	55.93	74.00	-18.07	Vertical
9648.00	55.57	38.60	8.02	46.20	55.99	74.00	-18.01	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	60.55	32.10	5.96	45.50	53.11	74.00	-20.89	Horizontal
7236.00	56.56	36.60	6.93	45.60	54.49	74.00	-19.51	Horizontal
9648.00	54.86	38.60	8.02	46.20	55.28	74.00	-18.72	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	48.18	32.10	5.96	45.50	40.74	54.00	-13.26	Vertical
7236.00	40.06	36.60	6.93	45.60	37.99	54.00	-16.01	Vertical
9648.00	41.98	38.60	8.02	46.20	42.40	54.00	-11.60	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	45.21	32.10	5.96	45.50	37.77	54.00	-16.23	Horizontal
7236.00	41.16	36.60	6.93	45.60	39.09	54.00	-14.91	Horizontal
9648.00	41.24	38.60	8.02	46.20	41.66	54.00	-12.34	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. Emissions more than 20 dB below the limit do not need to be reported.



Test mode:	802.11n(HT20)	Test channel:	Middle
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	62.49	32.10	5.96	45.50	55.05	74.00	-18.95	Vertical
7311.00	58.72	36.60	6.93	45.60	56.65	74.00	-17.35	Vertical
9748.00	56.66	38.60	8.02	46.20	57.08	74.00	-16.92	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	62.06	32.10	5.96	45.50	54.62	74.00	-19.38	Horizontal
7311.00	56.46	36.60	6.93	45.60	54.39	74.00	-19.61	Horizontal
9748.00	55.97	38.60	8.02	46.20	56.39	74.00	-17.61	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	46.65	32.10	5.96	45.50	39.21	54.00	-14.79	Vertical
7311.00	43.71	36.60	6.93	45.60	41.64	54.00	-12.36	Vertical
9748.00	42.93	38.60	8.02	46.20	43.35	54.00	-10.65	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	47.45	32.10	5.96	45.50	40.01	54.00	-13.99	Horizontal
7311.00	40.56	36.60	6.93	45.60	38.49	54.00	-15.51	Horizontal
9748.00	41.42	38.60	8.02	46.20	41.84	54.00	-12.16	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “\*”, means this data is too weak instrument of signal is unable to test.
3. Emissions more than 20 dB below the limit do not need to be reported.

Test mode:	802.11n(HT20)	Test channel:	Highest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	66.83	32.10	5.96	45.50	59.39	74.00	-14.61	Vertical
7386.00	59.94	36.60	6.93	45.60	57.87	74.00	-16.13	Vertical
9848.00	60.79	38.60	8.02	46.20	61.21	74.00	-12.79	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	61.08	32.80	5.96	45.70	54.14	74.00	-19.86	Horizontal
7386.00	56.29	36.40	6.93	45.80	53.82	74.00	-20.18	Horizontal
9848.00	55.46	38.20	8.02	46.20	55.48	74.00	-18.52	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	47.56	32.80	5.96	45.70	40.62	54.00	-13.38	Vertical
7386.00	40.86	36.40	6.93	45.80	38.39	54.00	-15.61	Vertical
9848.00	42.79	38.20	8.02	46.20	42.81	54.00	-11.19	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	47.56	32.80	5.96	45.70	40.62	54.00	-13.38	Horizontal
7386.00	41.94	36.40	6.93	45.80	39.47	54.00	-14.53	Horizontal
9848.00	39.28	38.20	8.02	46.20	39.30	54.00	-14.70	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

**Remark:**

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
- 2 “\*” means this data is too weak instrument of signal is unable to test.
3. Emissions more than 20 dB below the limit do not need to be reported.

Test mode:	802.11n(HT40)	Test channel:	Lowest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	58.48	32.10	5.96	45.50	51.04	74.00	-22.96	Vertical
7266.00	60.77	36.80	6.93	45.60	58.90	74.00	-15.10	Vertical
9688.00	59.09	38.10	8.02	46.20	59.01	74.00	-14.99	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	56.25	32.10	5.96	45.50	48.81	74.00	-25.19	Horizontal
7266.00	59.64	36.80	6.93	45.60	57.77	74.00	-16.23	Horizontal
9688.00	57.75	38.10	8.02	46.20	57.67	74.00	-16.33	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	42.65	32.10	5.96	45.50	35.21	54.00	-18.79	Vertical
7266.00	44.88	36.80	6.93	45.60	43.01	54.00	-10.99	Vertical
9688.00	42.65	38.10	8.02	46.20	42.57	54.00	-11.43	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	40.77	32.10	5.96	45.50	33.33	54.00	-20.67	Horizontal
7266.00	44.11	36.80	6.93	45.60	42.24	54.00	-11.76	Horizontal
9688.00	41.95	38.10	8.02	46.20	41.87	54.00	-12.13	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. Emissions more than 20 dB below the limit do not need to be reported.

Test mode:	802.11n(HT40)	Test channel:	Middle
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	58.97	32.10	5.96	45.50	51.53	74.00	-22.47	Vertical
7311.00	61.76	36.60	6.93	45.60	59.69	74.00	-14.31	Vertical
9748.00	58.62	38.60	8.02	46.20	59.04	74.00	-14.96	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	58.33	32.10	5.96	45.50	50.89	74.00	-23.11	Horizontal
7311.00	60.12	36.60	6.93	45.60	58.05	74.00	-15.95	Horizontal
9748.00	59.66	38.60	8.02	46.20	60.08	74.00	-13.92	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	44.18	32.10	5.96	45.50	36.74	54.00	-17.26	Vertical
7311.00	46.02	36.60	6.93	45.60	43.95	54.00	-10.05	Vertical
9748.00	43.84	38.60	8.02	46.20	44.26	54.00	-9.74	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	43.14	32.10	5.96	45.50	35.70	54.00	-18.30	Horizontal
7311.00	46.07	36.60	6.93	45.60	44.00	54.00	-10.00	Horizontal
9748.00	42.76	38.60	8.02	46.20	43.18	54.00	-10.82	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*”, means this data is the too weak instrument of signal is unable to test.
3. Emissions more than 20 dB below the limit do not need to be reported.

Test mode:	802.11n(HT40)	Test channel:	Highest
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**Peak value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	59.59	32.80	5.96	45.70	52.65	74.00	-21.35	Vertical
7356.00	57.21	36.20	6.93	45.80	54.54	74.00	-19.46	Vertical
9808.00	55.46	38.40	8.02	46.20	55.68	74.00	-18.32	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	59.87	32.80	5.96	45.70	52.93	74.00	-21.07	Horizontal
7356.00	57.94	36.20	6.93	45.80	55.27	74.00	-18.73	Horizontal
9808.00	59.15	38.40	8.02	46.20	59.37	74.00	-14.63	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

**Average value:**

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	47.93	32.80	5.96	45.70	40.99	54.00	-13.01	Vertical
7356.00	42.19	36.20	6.93	45.80	39.52	54.00	-14.48	Vertical
9808.00	40.92	38.40	8.02	46.20	41.14	54.00	-12.86	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	48.55	32.80	5.96	45.70	41.61	54.00	-12.39	Horizontal
7356.00	42.65	36.20	6.93	45.80	39.98	54.00	-14.02	Horizontal
9808.00	40.63	38.40	8.02	46.20	40.85	54.00	-13.15	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

**Remark:**

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
- 2 “\*”, means this data is the too weak instrument of signal is unable to test.
3. Emissions more than 20 dB below the limit do not need to be reported.

## 5. Test Setup Photo

Reference to the **appendix I** for details.

## 6. EUT Constructional Details

Reference to the **appendix II** for details.

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