



TEST REPORT

Applicant: Jiumao (Shenzhen) Industrial Co., LTD.
Address of Applicant: 2nd Floor, Building 9, Jingxuan Industrial Park, Donghuan Road, Longhua District, Shenzhen
Manufacturer: Jiumao (Shenzhen) Industrial Co., LTD.
Address of Manufacturer: 2nd Floor, Building 9, Jingxuan Industrial Park, Donghuan Road, Longhua District, Shenzhen
Product Name: TV BOX
Model No.: M98PRO,M98-H6,XIAOIM,M98-H313TS,M98TS,M98MAX,M98Max,M98-A4,M98-X10,M98-Q1,M98PRO,M98PLUS,M98H618,M98H618TS,M98H313,M98ktv
Trade Mark: JIUMAO
FCC ID: 2BB8K-M98PRO
Applicable standards: CFR Title 47 Part 15.247
Date of Test: Jul.30, 2025-Aug.13, 2025
Date of report issued: Aug.14, 2025

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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Approved by:

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Authorized Signature



Report Revision History		
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1. Test Summary

Test Item	Section	Result	Test by
Antenna requirement	47CRF part 15.203/15.247 (b)(4)	Pass	/
AC Power Line Conducted Emission	47CRF part 15.207	Pass	Jason Huang
Conducted Peak Output Power	47CRF part 15.247 (b)(3)	Pass	Kara Wu
6dB Bandwidth	47CRF part 15.247 (a)(2)	Pass	Kara Wu
Power Spectral Density	47CRF part 15.247 (e)	Pass	Kara Wu
Band Edge	47CRF part 15.247(d) 47CRF part 15.205/15.209	Pass	Kara Wu
Spurious Emission	47CRF part 15.247(d) 47CRF part 15.205/15.209	Pass	Jason Huang

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02.
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	Measurement Uncertainty	Notes
Occupied Channel Bandwidth	0.55%	(1)
RF output power, conducted	±0.57 dB	(1)
Power Spectral Density, conducted	±0.61 dB	(1)
Unwanted Emissions, conducted	±0.64 dB	(1)
AC Power Line Conducted Emission	± 2.55 dB	(1)
Radiated emissions 9K-30MHz	±3.79 dB	(1)
Radiated emissions 30M- 1GHz	± 4.24 dB	(1)
Radiated emissions 1GHz-18GHz	± 4.26 dB	(1)
Radiated emissions 18GHz-40GHz	±4.17 dB	(1)
Frequency error	Uc=1X10 ⁻⁷	(1)
Duty Cycle	0.03%	(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:	TV BOX
Model No.:	M98PRO,M98-H6,XIAOIM,M98-H313TS,M98TS,M98MAX,M98Max,M98-A4,M98-X10,M98-Q1,M98PRO,M98PLUS,M98H618,M98H618TS,M98H313,M98ktv
Difference of model(s)	All models have the same circuit and RF module, except for the model name and housing design
Test Model:	M98PRO
Hardware version:	REV1.5
Software version:	1.0
Sample(s) Status	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n20: 11 802.11n40:7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n20/802.11n40: Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	PCB antenna
Antenna gain:	3dBi(Declare by applicant) Note: Antenna information is provided by applicant, Testing lab is not responsible for the accuracy of the information.
Power supply:	DC 5V From Adapter
Battery:	N/A
Adapter:	N/A

For more details, refer to the user's manual of the EUT.

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		

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/802.11n20	802.11n40
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 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
1	MOUSE	DELL	MS116	/
2	KEYBOARD	DELL	KB216T	/
3	MONITOR	SKYWORTH	2BU1	/
4	ADAPTER	/	YBJ-220502	/

2.4 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
IC Company Number:	28440
IC CAB identifier:	CN0132
Laboratory location:	No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

2.5 Additional Instructions

Test Software	Manufacturer's special orders
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	2025.3.06	2026.3.05
2	EMI Test Receiver	Rohde&schwarz	ESCI3	102696	2025.3.06	2026.3.05
3	Loop Antenna	schwarabeck	FMZB 1519 B	FMZB 1519 B	2024.3.22	2026.3.21
4	Broadband antenna	schwarabeck	VULB9168	1064	2024.3.26	2026.3.25
5	Horn antenna	schwarabeck	BBHA9120D	9120D-1145	2024.3.22	2026.3.21
6	amplifier	EMtrace	RP01A	50117	2025.3.06	2026.3.05
7	AMN	schwarabeck	NSLK8127	8127483	2025.3.06	2026.3.05
8	AMN	ETS	3186/2NM	1132	2025.3.06	2026.3.05
9	10dB attenuator	HUBER+SUHN R	10dB	/	2025.3.06	2026.3.05
10	amplifier	Space-Dtronics	EWLAN0118G- P40	19113001	2025.3.06	2026.3.05
11	Filter	Xingbo	XBLBQ-GTA19	210410-3-1	2025.3.06	2026.3.05
12	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2025.3.06	2026.3.05
13	Power control box	MWRFTtest	MW100-PSB	MW201020JYT	2025.3.06	2026.3.05
14	Power Sensor	Keysight	U2021XA	MY54111006	2025.3.06	2026.3.05
15	amplifier	SKET	LNPA_1840-50 (18-40GHz)	SK2019040302	2025.3.06	2026.3.05
16	Horn antenna	schwarabeck	BBHA 9170	946	2024.3.22	2026.3.21
17	Temp. & Humidity Chamber	Jiecheng Instrument	QA-LP-80	20160705001	2025/3/07	2026/3/06

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	MWRFTtest	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

Standard requirement:	47CRF part 15.203/15.247 (b)(4)
15.203 requirement: 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.	
15.247(b) (4) requirement: If transmitting antennas of directional gain greater than 6dBi are used, the conducted output power limit shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
The antenna is PCB Antenna, the best case gain of the is 3dBi, reference to the Internal photos for details.	

4.2 Conducted Emissions

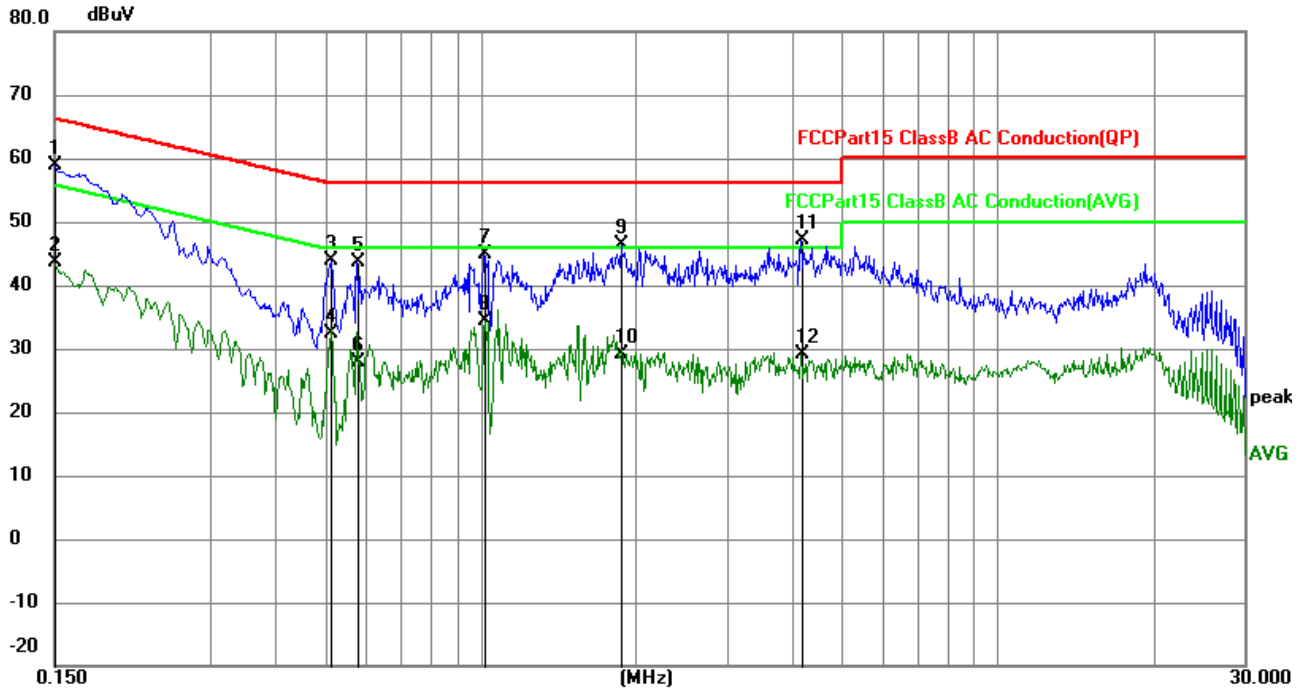
Test Requirement:	47CRF part 15.207						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	150KHz to 30MHz						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto						
Limit:	Frequency range (MHz)	Limit (dBuV)					
		Quasi-peak			Average		
		0.15-0.5			66 to 56*		56 to 46*
		0.5-5			56		46
		5-30			60		50
* Decreases with the logarithm of the frequency.							
Test setup:	Reference Plane 40cm LISN AUX Equipment E.U.T 80cm LISN Filter AC power EMI Receiver Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m						
Test procedure:	1. 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. 2. 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). 3. 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.						
Test Instruments:	Refer to section 3.0 for details						
Test mode:	Refer to section 2.2 for details						
Test environment:	Temp.:	23.2°C	Humid.:	53%	Press.:	1012mbar	
Test voltage:	AC 120V, 60Hz						
Test results:	Pass						

Remark:

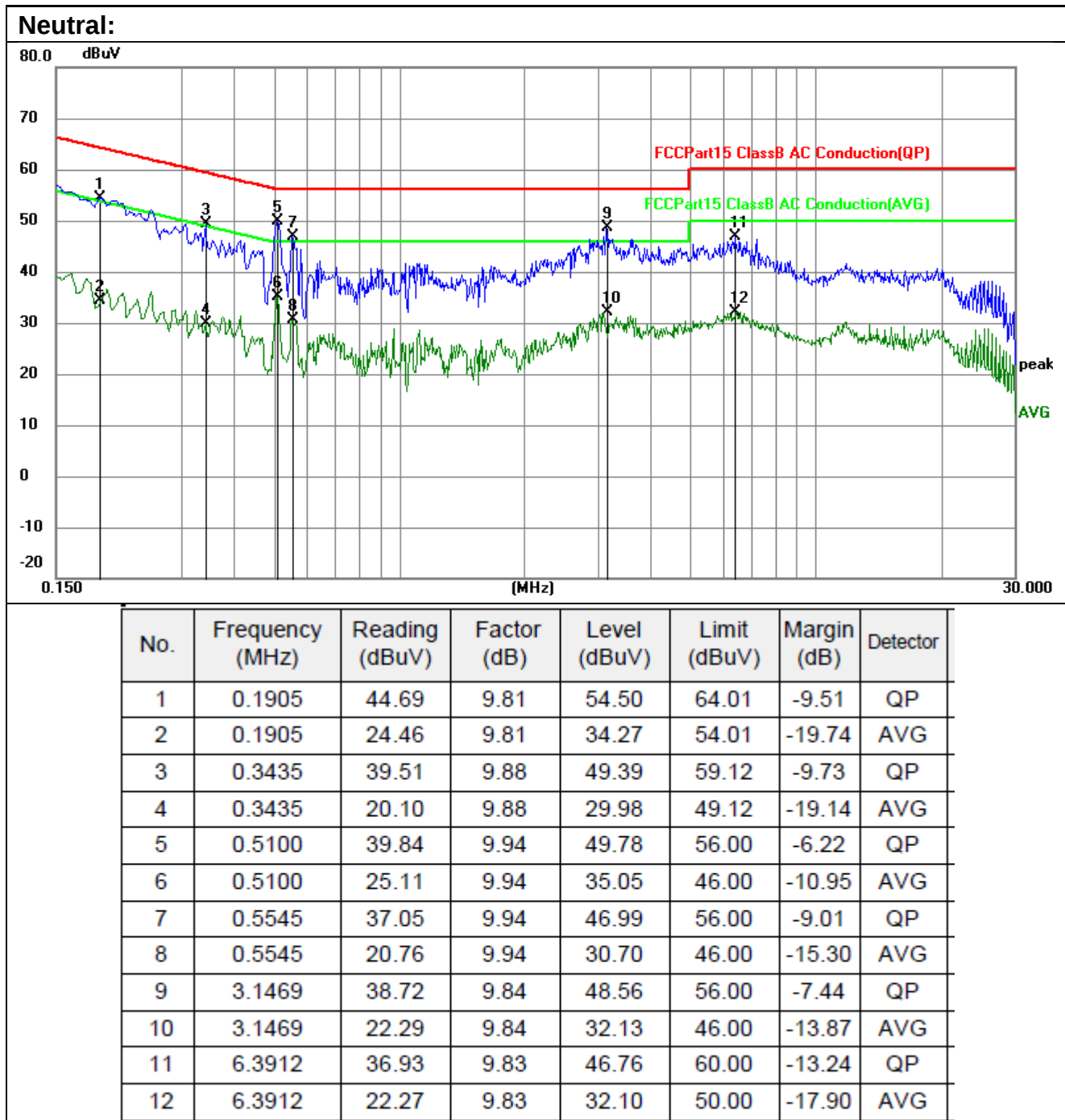
- Both high voltage and low voltage have been tested, and the report only shows the worst case data with AC 120V/60Hz.
- All mode have been tested, the report only shows the worst mode of 802.11n20 (2462MHz)

Measurement Result

Line:



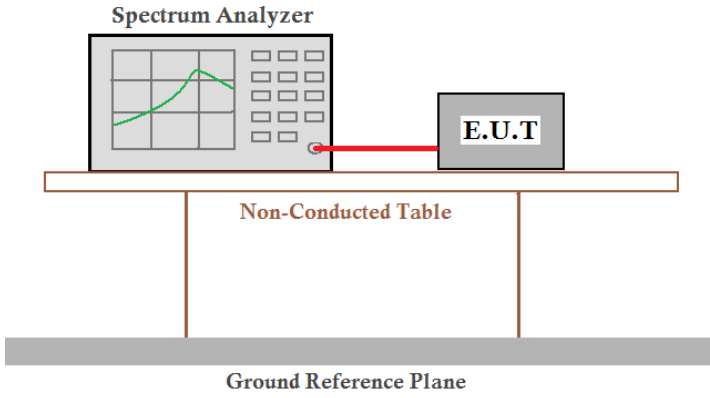
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1507	49.15	9.80	58.95	65.96	-7.01	QP
2	0.1507	33.75	9.80	43.55	55.96	-12.41	AVG
3	0.5141	33.82	9.94	43.76	56.00	-12.24	QP
4	0.5141	22.42	9.94	32.36	46.00	-13.64	AVG
5	0.5774	33.76	9.94	43.70	56.00	-12.30	QP
6	0.5774	17.89	9.94	27.83	46.00	-18.17	AVG
7	1.0181	34.96	9.96	44.92	56.00	-11.08	QP
8	1.0181	24.31	9.96	34.27	46.00	-11.73	AVG
9	1.8729	36.59	9.86	46.45	56.00	-9.55	QP
10	1.8729	19.19	9.86	29.05	46.00	-16.95	AVG
11	4.1774	37.19	9.83	47.02	56.00	-8.98	QP
12	4.1774	19.35	9.83	29.18	46.00	-16.82	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:	 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. The table is supported by two vertical legs and sits on a Ground Reference Plane, which is represented by a thick grey bar at the bottom.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 22.6°C	Humid.: 61%RH
Test voltage:	DC 5V	
Test results:	Pass	

Measurement Result

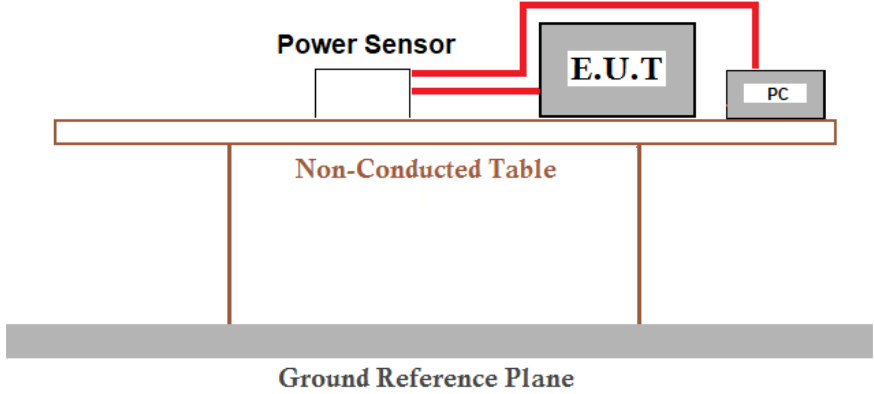
Mode	Duty cycle (%)	Correction Factor (dB)
802.11b	94.50	0.25
802.11g	88.24	0.54
802.11n(HT20)	82.47	0.84
802.11n(HT40)	70.17	1.54



Test plot as follows:



4.4 Peak Conducted Output Power

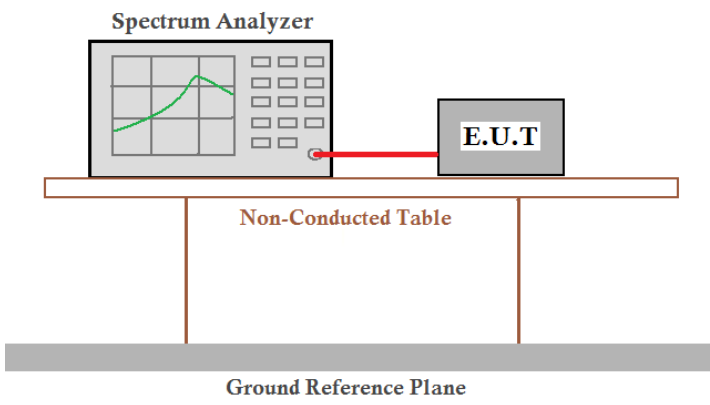
Test Requirement :	FCC Part15 C Section 15.247 (b)(3)	
Test Method :	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02	
Limit:	30dBm for peak conducted output power	
Test setup:	 The diagram illustrates the test setup. A 'Power Sensor' is connected via red lines to an 'E.U.T.' (Equipment Under Test) and a 'PC'. These components are placed on a 'Non-Conducted Table'. Below the table is a 'Ground Reference Plane'.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 22.6°C	Humid.: 61%RH
Test voltage:	DC 5V	
Test results:	Pass	

Measurement Result see next page



Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	13.86	13.50	13.51	12.30	30.00	Pass
Middle	13.26	14.09	13.63	12.62		
Highest	13.73	13.60	14.35	12.88		

4.5 6dB Bandwidth

Test Requirement :	47CRF Part 15.247 (a)(2)	
Test Method :	ANSI C63.10:2013	
Limit:	>500KHz	
Test setup:	 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.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 22.6°C	Humid.: 61%RH
Test voltage:	DC 5V	
Test results:	Pass	

Measurement Result

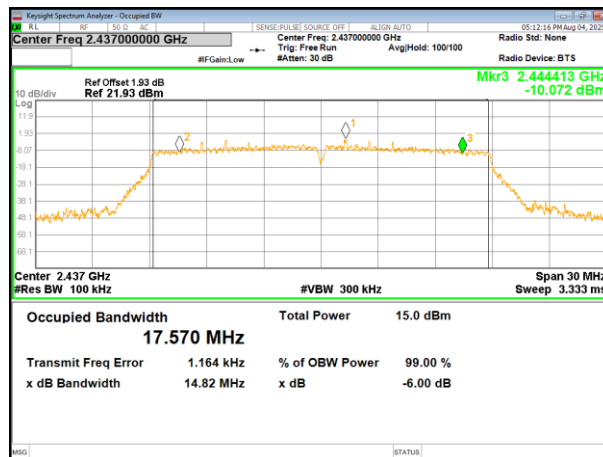
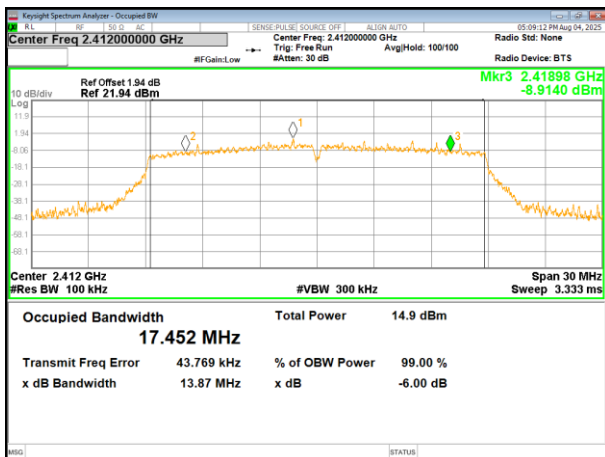
Test CH	6dB Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	6.496	14.41	13.87	33.21	>500	Pass
Middle	8.411	16.28	14.82	33.79		
Highest	7.832	15.13	16.34	26.36		

-6 Bandwidth dB Test plot as follows

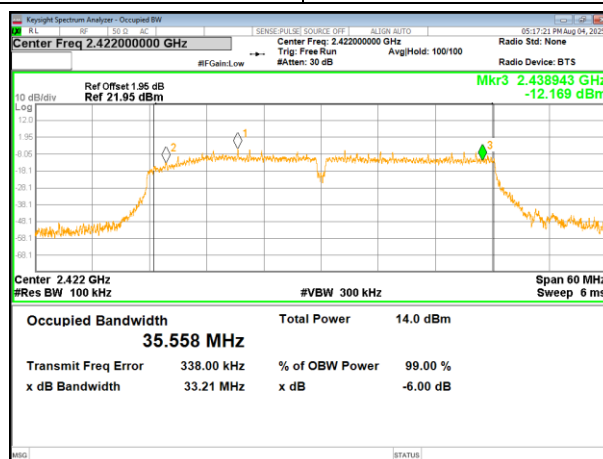
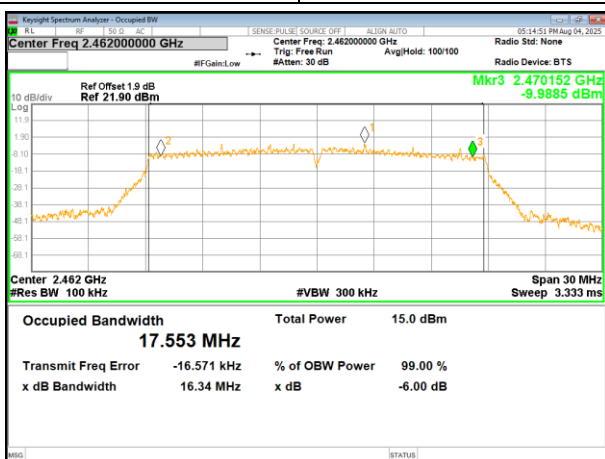




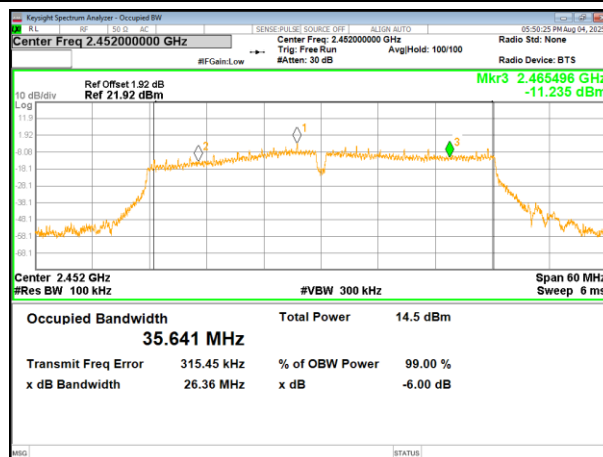
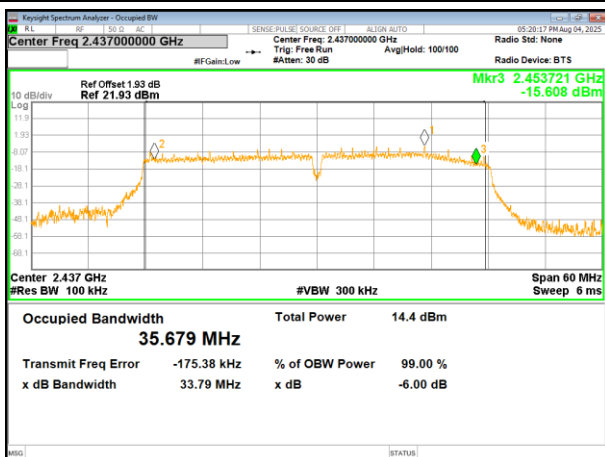
802.11n20	Lowest channel	802.n20	Middle channel
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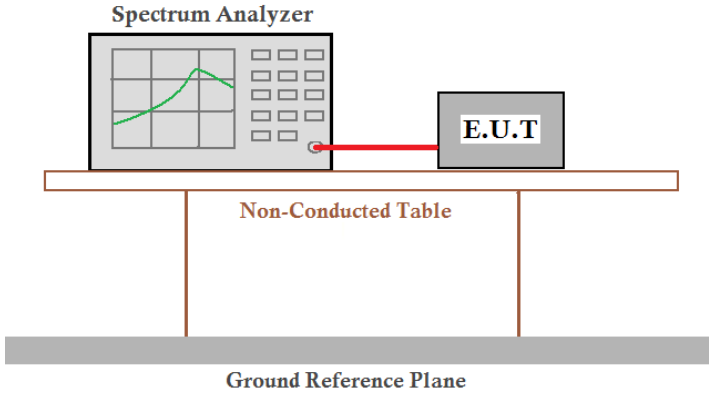
802.11n20	Highest channel	802.11n40	Lowest channel
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802.11n40	Middle channel	802.11n40	Highest channel
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4.6 Power Spectral Density

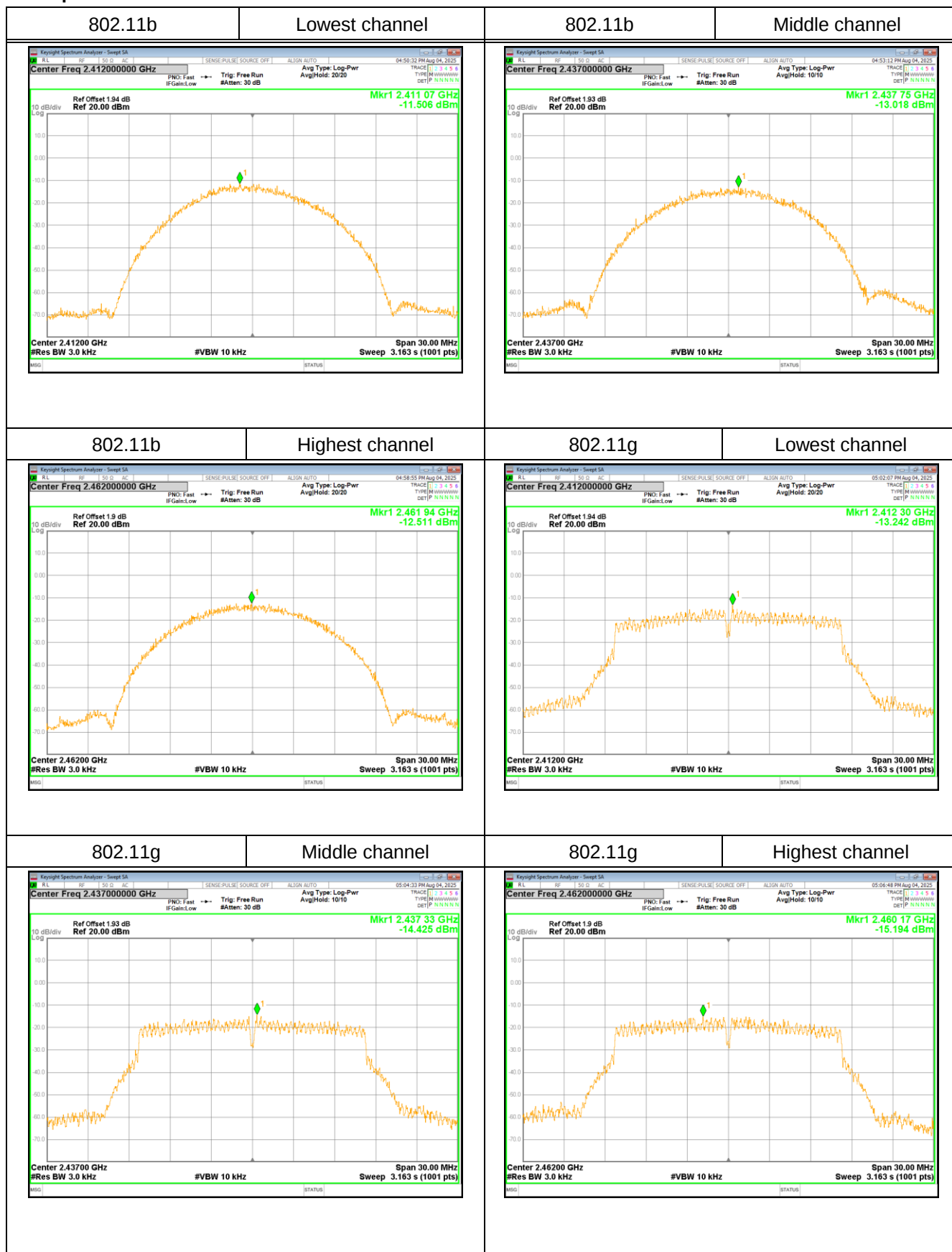
Test Requirement:	47CRF Part 15.247 (e)	
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02	
Limit:	8dBm/3kHz	
Test setup:		
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 22.6°C	Humid.: 61%RH
Test voltage:	DC 5V	
Test results:	Pass	

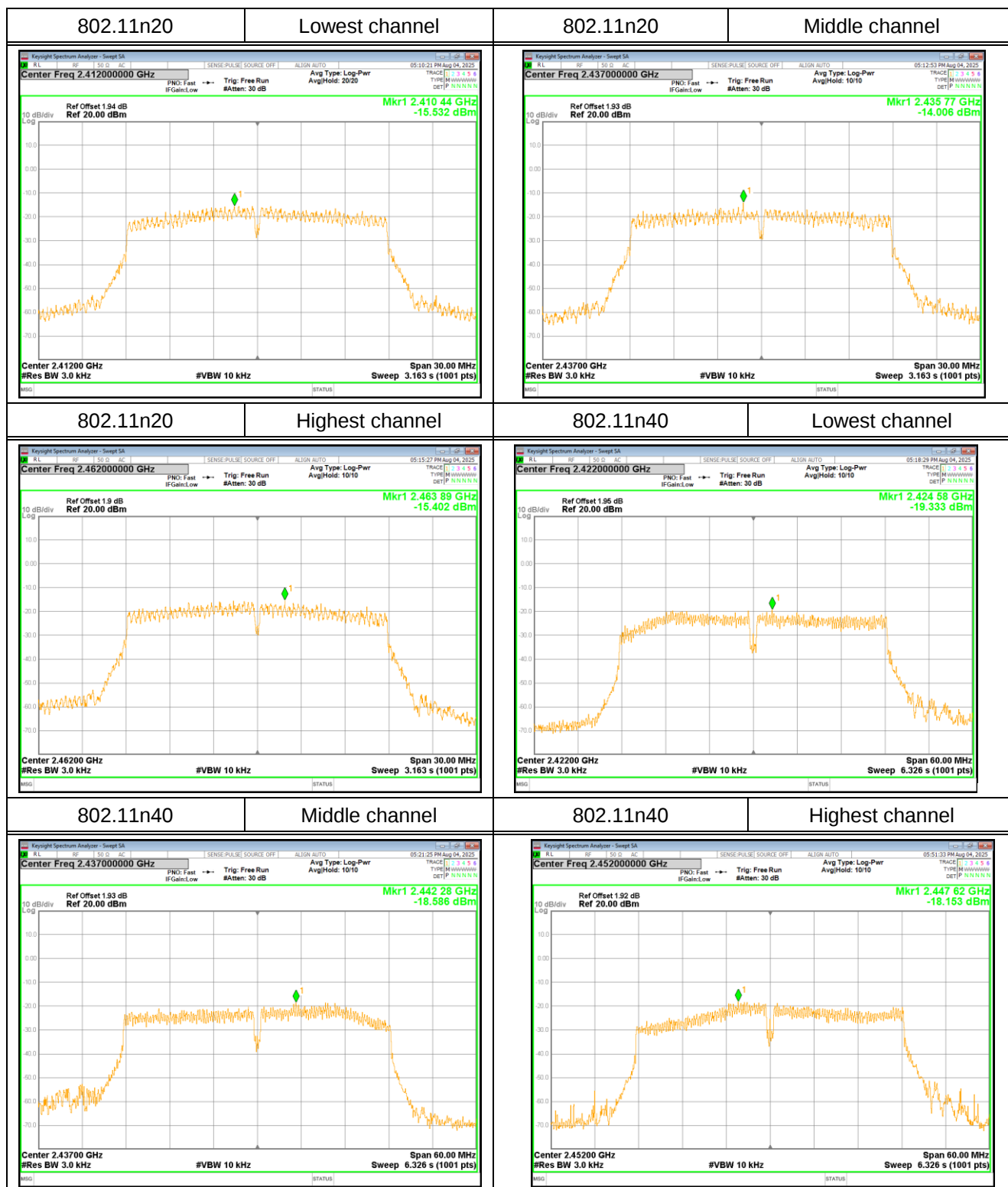
Measurement Result

Test CH	Power Spectral Density (dBm/3kHz)				Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n20	802.11n40		
Lowest	-11.506	-13.242	-15.532	-19.333	8.00	Pass
Middle	-13.018	-14.425	-14.006	-18.586		
Highest	-12.511	-15.194	-15.402	-18.153		



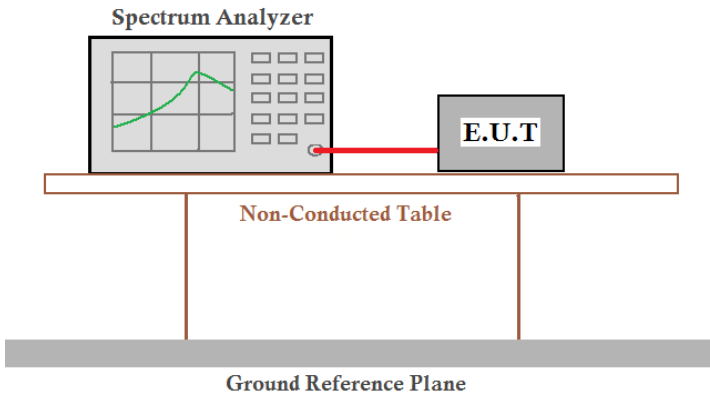
Test plot as follows:





4.7 Band edges

Conducted Emission Method

Test Requirement:	47CRF Part 15.247 (d)	
Test Method:	ANSI C63.10	
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:	 The diagram illustrates the test setup for conducted emission measurement. 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, which is supported by two vertical legs. Below the table is a Ground Reference Plane.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 22.6°C	Humid.: 61%RH
Test voltage:	DC 5V	
Test results:	Pass	

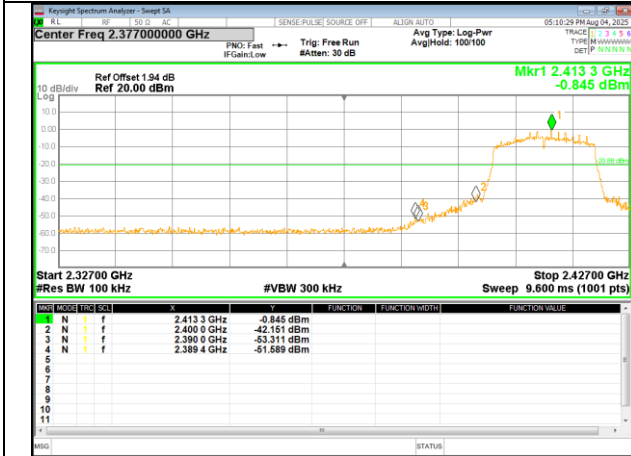


Test plot as follows:

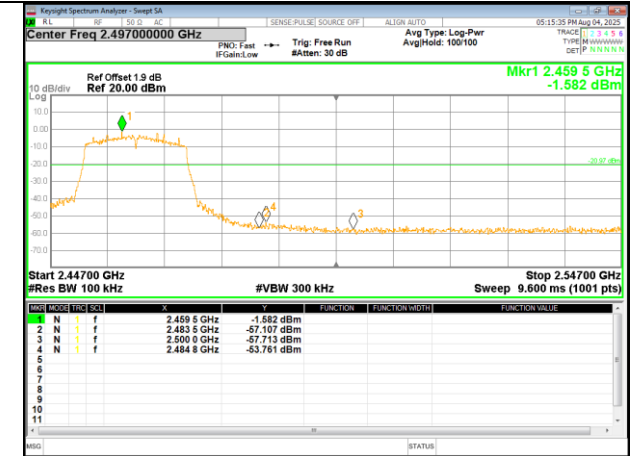


Test mode:

802.11n20



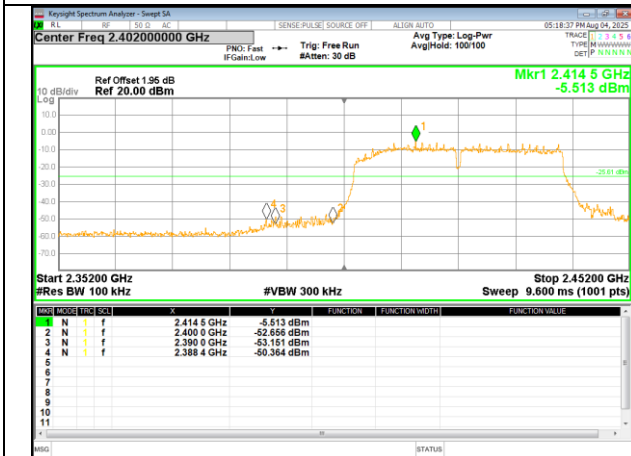
Lowest channel



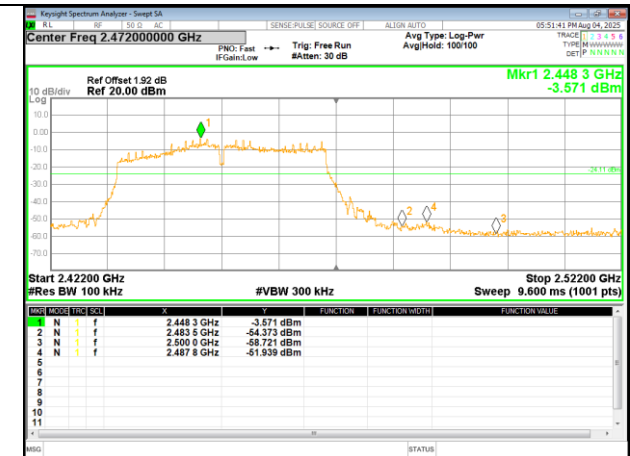
Highest channel

Test mode:

802.11n40

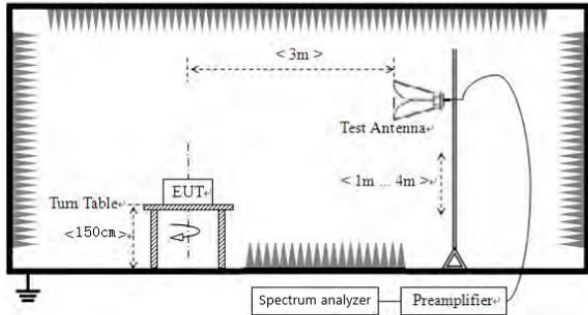


Lowest channel



Highest channel

Radiated Emission Method

Test Requirement:	47CRF Part 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:	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. 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. 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. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. 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.				
Test Instruments:	Refer to section 3.0 for details				
Test mode:	Refer to section 2.2 for details				
Test environment:	Temp.: 22.6°C			Humid.: 61%RH	
Test voltage:	DC 5V				
Test results:	Pass				



Measurement data:

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

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	63.15	-13.36	49.79	74.00	-24.21	Horizontal
2390.00	63.05	-13.03	50.02	74.00	-23.98	Horizontal
2310.00	62.90	-13.36	49.54	74.00	-24.46	Vertical
2390.00	65.24	-13.03	52.21	74.00	-21.79	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	54.20	-13.36	40.84	54.00	-13.16	Horizontal
2390.00	54.67	-13.03	41.64	54.00	-12.36	Horizontal
2310.00	54.26	-13.36	40.90	54.00	-13.10	Vertical
2390.00	54.89	-13.03	41.86	54.00	-12.14	Vertical

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

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	65.85	-12.64	53.21	74.00	-20.79	Horizontal
2500.00	64.32	-12.57	51.75	74.00	-22.25	Horizontal
2483.50	66.74	-12.64	54.10	74.00	-19.90	Vertical
2500.00	65.90	-12.57	53.33	74.00	-20.67	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	53.31	-12.64	40.67	54.00	-13.33	Horizontal
2500.00	51.77	-12.57	39.20	54.00	-14.80	Horizontal
2483.50	54.72	-12.64	42.08	54.00	-11.92	Vertical
2500.00	53.64	-12.57	41.07	54.00	-12.93	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 + Factor
3. Factor = Antenna Factor + Cable Loss – Preamplifier Factor
4. 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)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	63.01	-13.36	49.65	74.00	-24.35	Horizontal
2390.00	63.35	-13.03	50.32	74.00	-23.68	Horizontal
2310.00	62.85	-13.36	49.49	74.00	-24.51	Vertical
2390.00	63.29	-13.03	50.26	74.00	-23.74	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	50.24	-13.36	36.88	54.00	-17.12	Horizontal
2390.00	50.54	-13.03	37.51	54.00	-16.49	Horizontal
2310.00	50.56	-13.36	37.20	54.00	-16.80	Vertical
2390.00	51.51	-13.03	38.48	54.00	-15.52	Vertical

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

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	65.20	-12.64	52.56	74.00	-21.44	Horizontal
2500.00	62.83	-12.57	50.26	74.00	-23.74	Horizontal
2483.50	65.64	-12.64	53.00	74.00	-21.00	Vertical
2500.00	62.89	-12.57	50.32	74.00	-23.68	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	53.03	-12.64	40.39	54.00	-13.61	Horizontal
2500.00	51.06	-12.57	38.49	54.00	-15.51	Horizontal
2483.50	52.76	-12.64	40.12	54.00	-13.88	Vertical
2500.00	50.60	-12.57	38.03	54.00	-15.97	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 + Factor
3. Factor =Antenna Factor + Cable Loss – Preamplifier Factor
4. 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)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	61.83	-13.36	48.47	74.00	-25.53	Horizontal
2390.00	63.35	-13.03	50.32	74.00	-23.68	Horizontal
2310.00	62.71	-13.36	49.35	74.00	-24.65	Vertical
2390.00	65.12	-13.03	52.09	74.00	-21.91	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	49.30	-13.36	35.94	54.00	-18.06	Horizontal
2390.00	50.96	-13.03	37.93	54.00	-16.07	Horizontal
2310.00	49.89	-13.36	36.53	54.00	-17.47	Vertical
2390.00	52.21	-13.03	39.18	54.00	-14.82	Vertical

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

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	65.43	-12.64	52.79	74.00	-21.21	Horizontal
2500.00	63.08	-12.57	50.51	74.00	-23.49	Horizontal
2483.50	65.87	-12.64	53.23	74.00	-20.77	Vertical
2500.00	62.08	-12.57	49.51	74.00	-24.49	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	52.93	-12.64	40.29	54.00	-13.71	Horizontal
2500.00	51.02	-12.57	38.45	54.00	-15.55	Horizontal
2483.50	54.72	-12.64	42.08	54.00	-11.92	Vertical
2500.00	50.65	-12.57	38.08	54.00	-15.92	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 + Factor
3. Factor = Antenna Factor + Cable Loss – Preamplifier Factor
4. 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)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	58.97	-12.64	46.33	74.00	-27.67	Horizontal
2390.00	59.92	-12.57	47.35	74.00	-26.65	Horizontal
2310.00	60.39	-12.64	47.75	74.00	-26.25	Vertical
2390.00	58.78	-12.57	46.21	74.00	-27.79	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	50.43	-13.36	37.07	54.00	-16.93	Horizontal
2390.00	78.75	-13.03	65.72	54.00	11.72	Horizontal
2310.00	50.40	-13.36	37.04	54.00	-16.96	Vertical
2390.00	51.57	-13.03	38.54	54.00	-15.46	Vertical

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

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	64.88	-12.64	52.24	74.00	-21.76	Horizontal
2500.00	61.73	-12.57	49.16	74.00	-24.84	Horizontal
2483.50	65.97	-12.64	53.33	74.00	-20.67	Vertical
2500.00	62.67	-12.57	50.10	74.00	-23.90	Vertical

Average value:

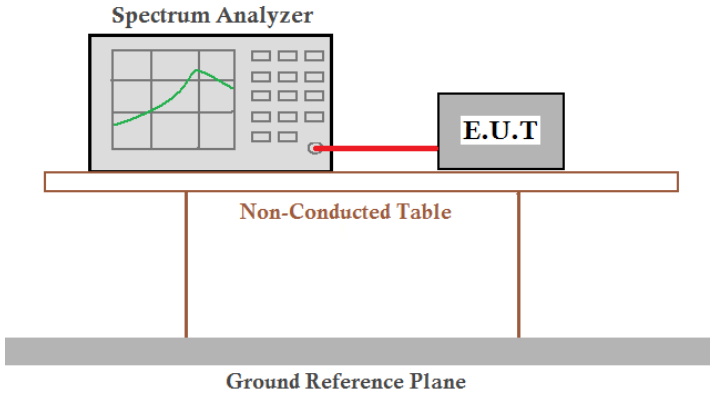
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	52.82	-12.64	40.18	54.00	-13.82	Horizontal
2500.00	49.91	-12.57	37.34	54.00	-16.66	Horizontal
2483.50	53.31	-12.64	40.67	54.00	-13.33	Vertical
2500.00	50.93	-12.57	38.36	54.00	-15.64	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 + Factor
3. Factor = Antenna Factor + Cable Loss – Preamplifier Factor
4. Emissions more than 20 dB below the limit do not need to be reported.

4.8 Spurious Emission

Conducted Emission Method

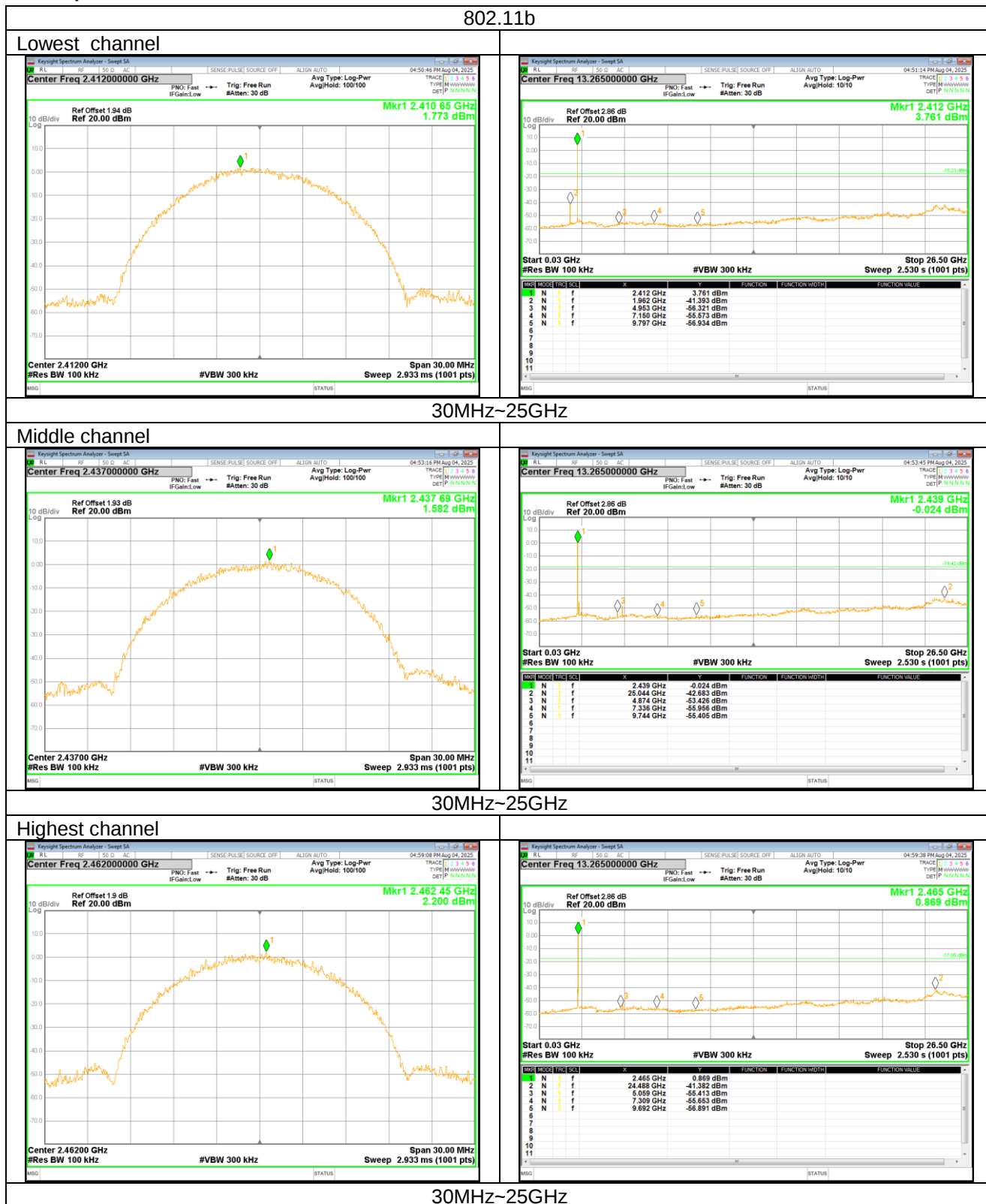
Test Requirement:	47CRF Part 15.247 (d), 47CRF Part 15.209	
Test Method:	ANSI C63.10-2013	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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:	 The diagram illustrates the test setup. A 'Spectrum Analyzer' is connected to an 'E.U.T.' (Equipment Under Test) by a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a 'Non-Conducted Table'. This table is supported by a 'Ground Reference Plane'.	
Test Instruments:	Refer to section 3.0 for details	
Test mode:	Refer to section 2.2 for details	
Test environment:	Temp.: 22.6°C	Humid.: 61%RH
Test voltage:	DC 5V	
Test results:	Pass	

Remark:

1. Cable loss data included in Offset.



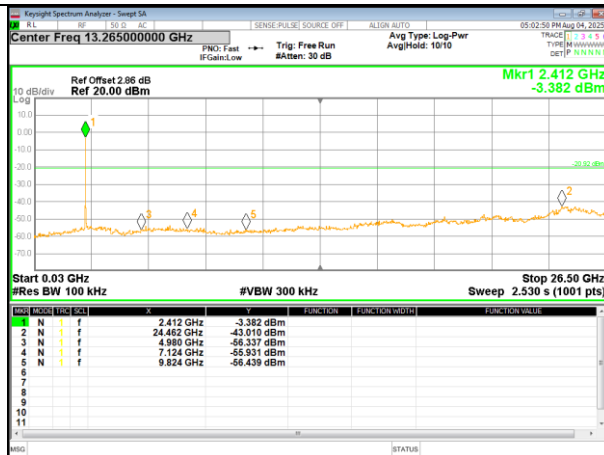
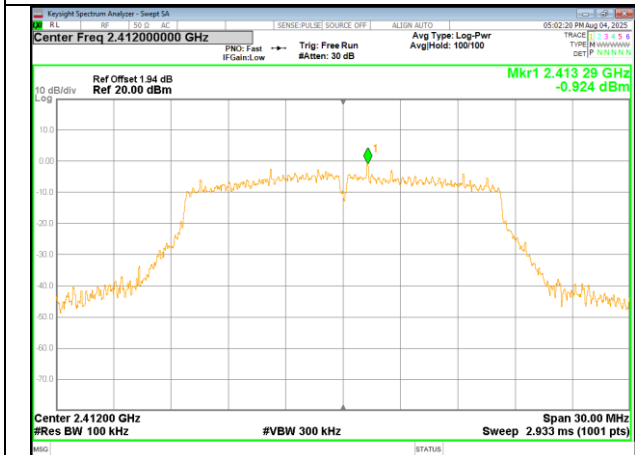
Test plot as follows:





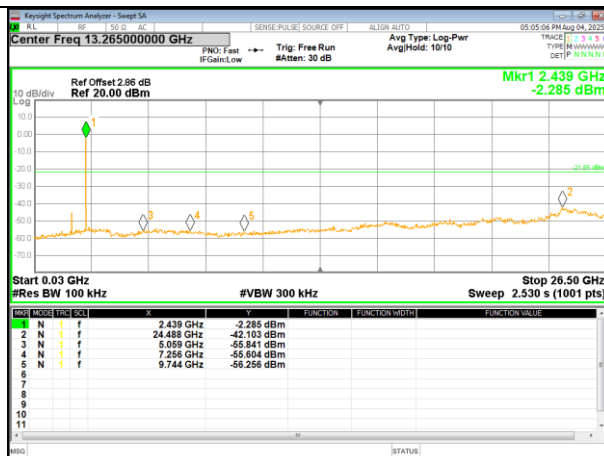
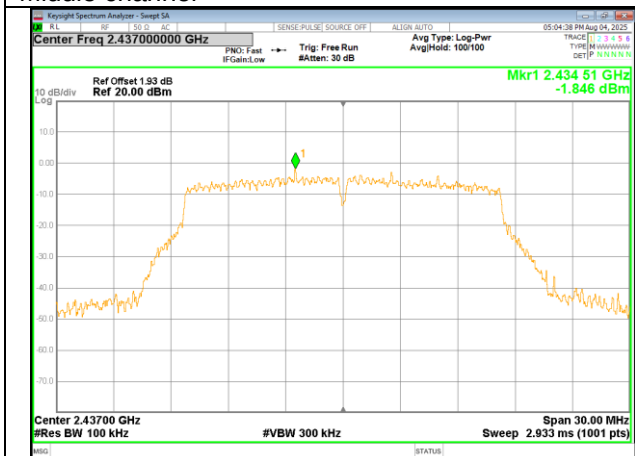
802.11g

Lowest channel



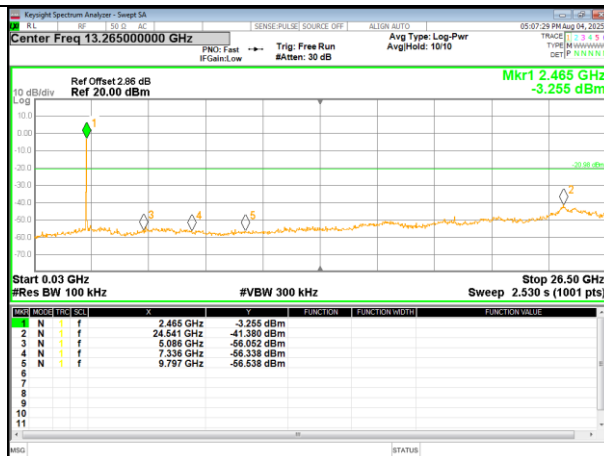
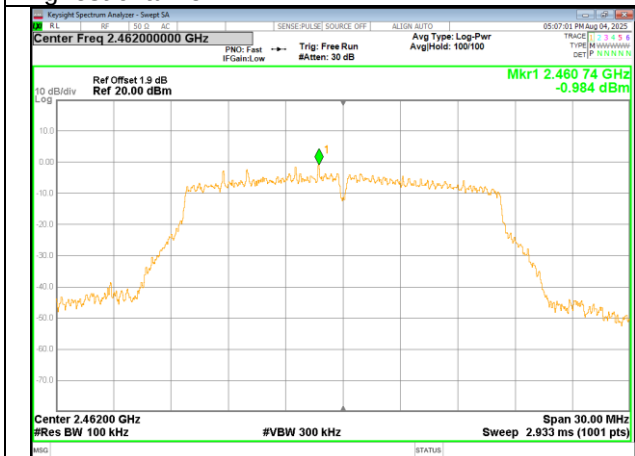
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

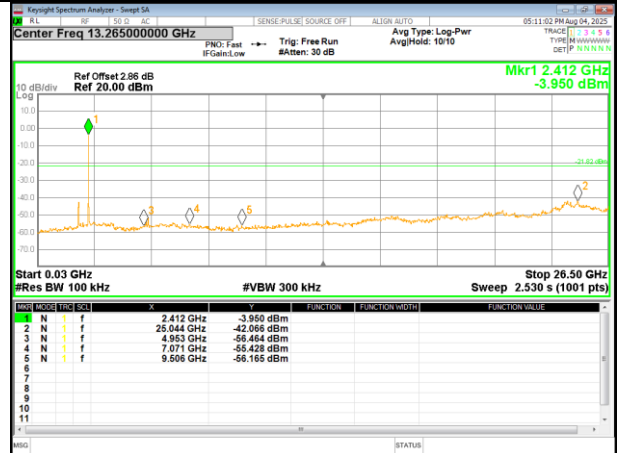
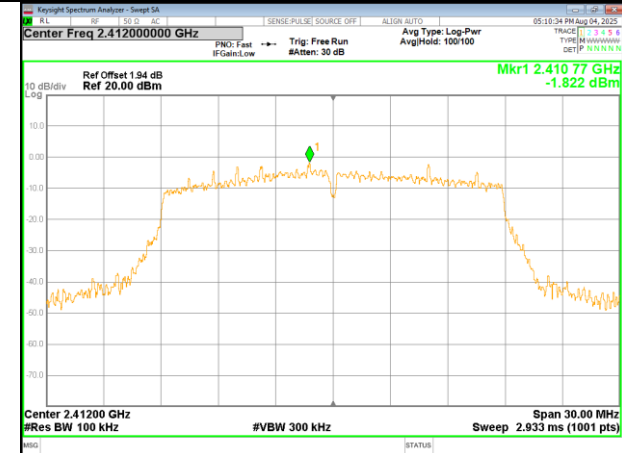


30MHz~25GHz



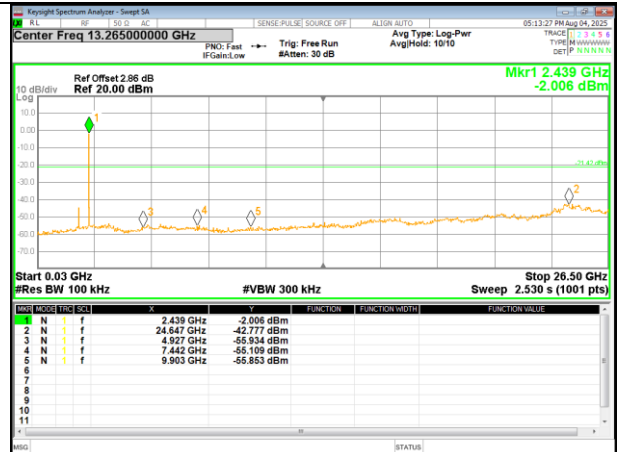
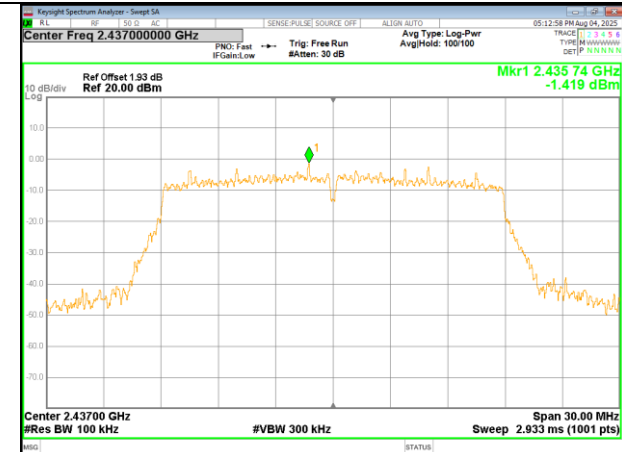
802.11n20

Lowest channel



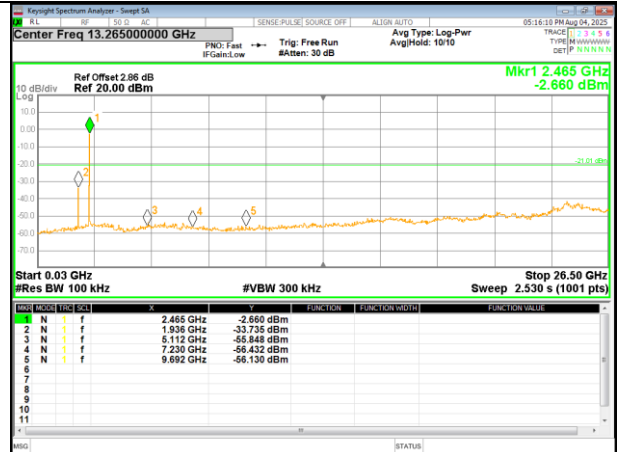
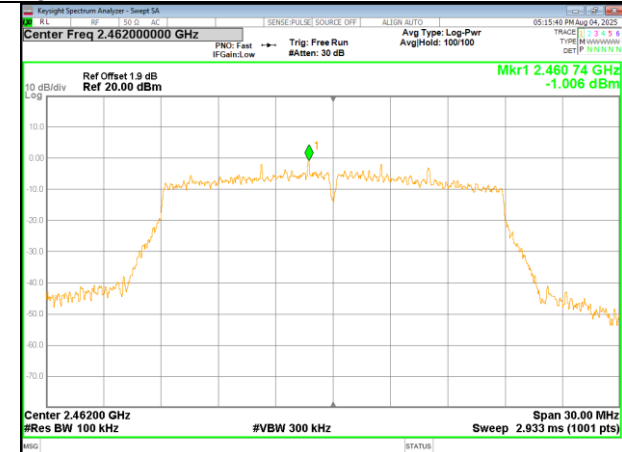
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

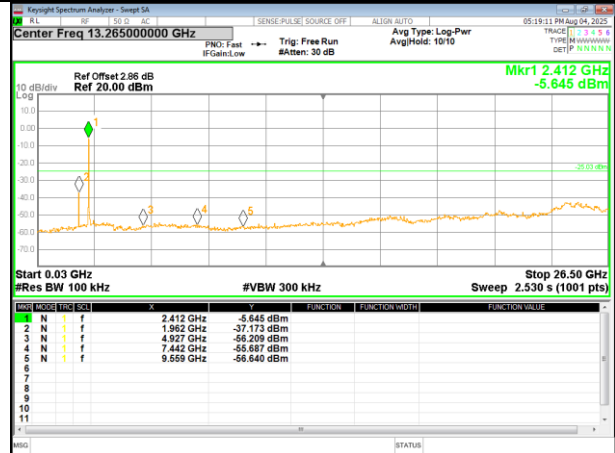
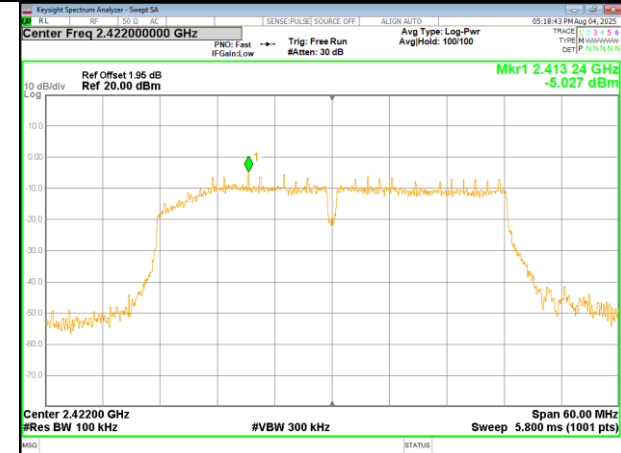


30MHz~25GHz



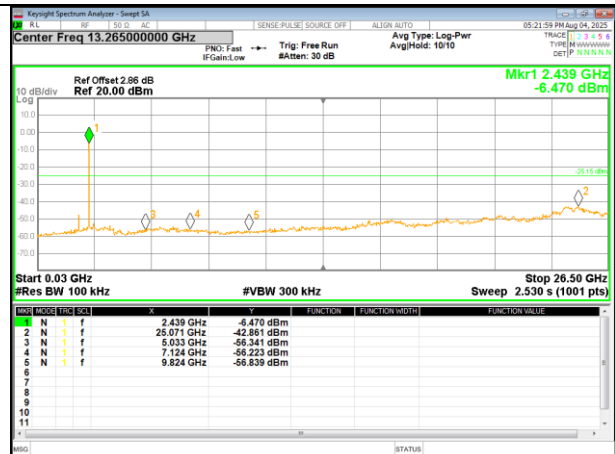
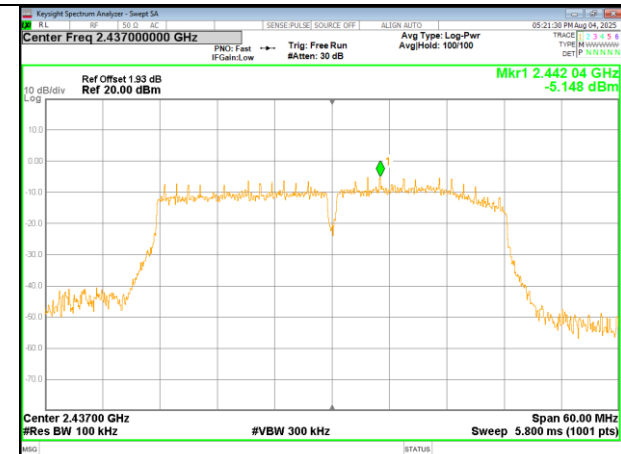
802.11n40

Lowest channel



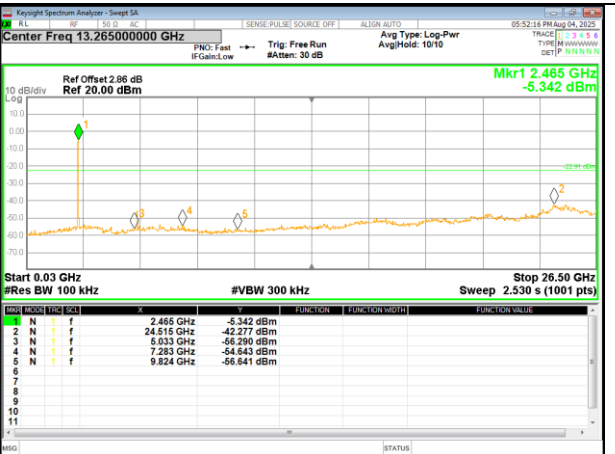
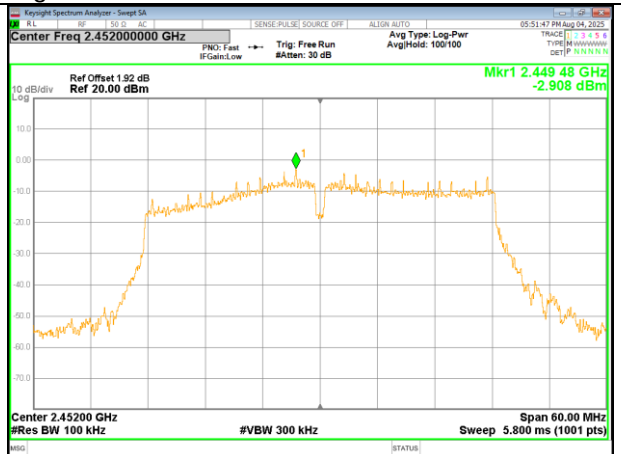
30MHz~25GHz

Middle channel



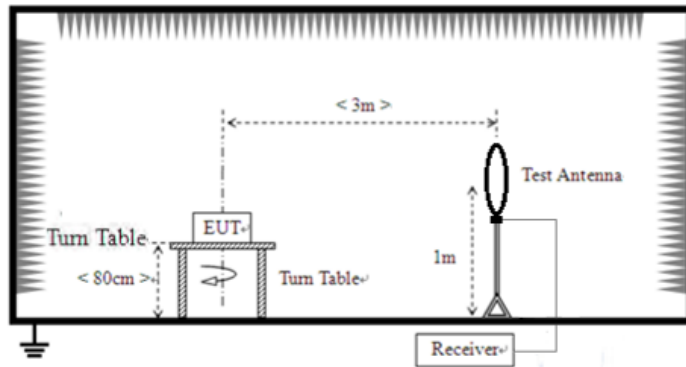
30MHz~25GHz

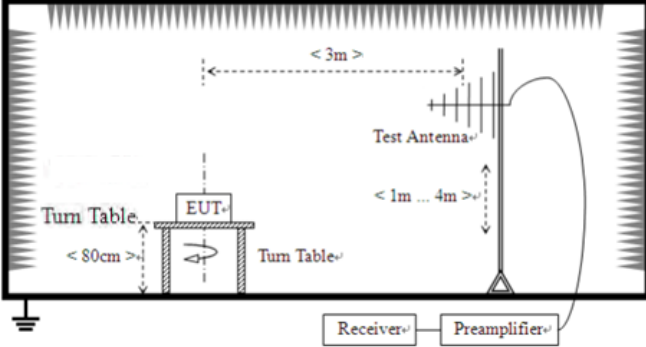
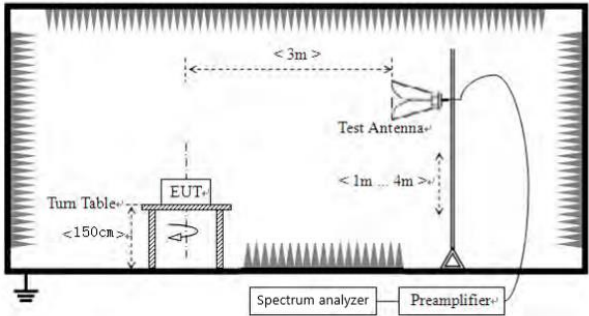
Highest channel



30MHz~25GHz

Radiated Emission Method

Test Requirement:	47CRF part 15.247(d),47CRF Part 15.209 and 15.205				
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 to1GHz				

	 For radiated emissions above 1GHz 
Test Procedure:	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. 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. 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. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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.
Test Instruments:	Refer to section 3.0 for details
Test mode:	Refer to section 2.2 for details
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:

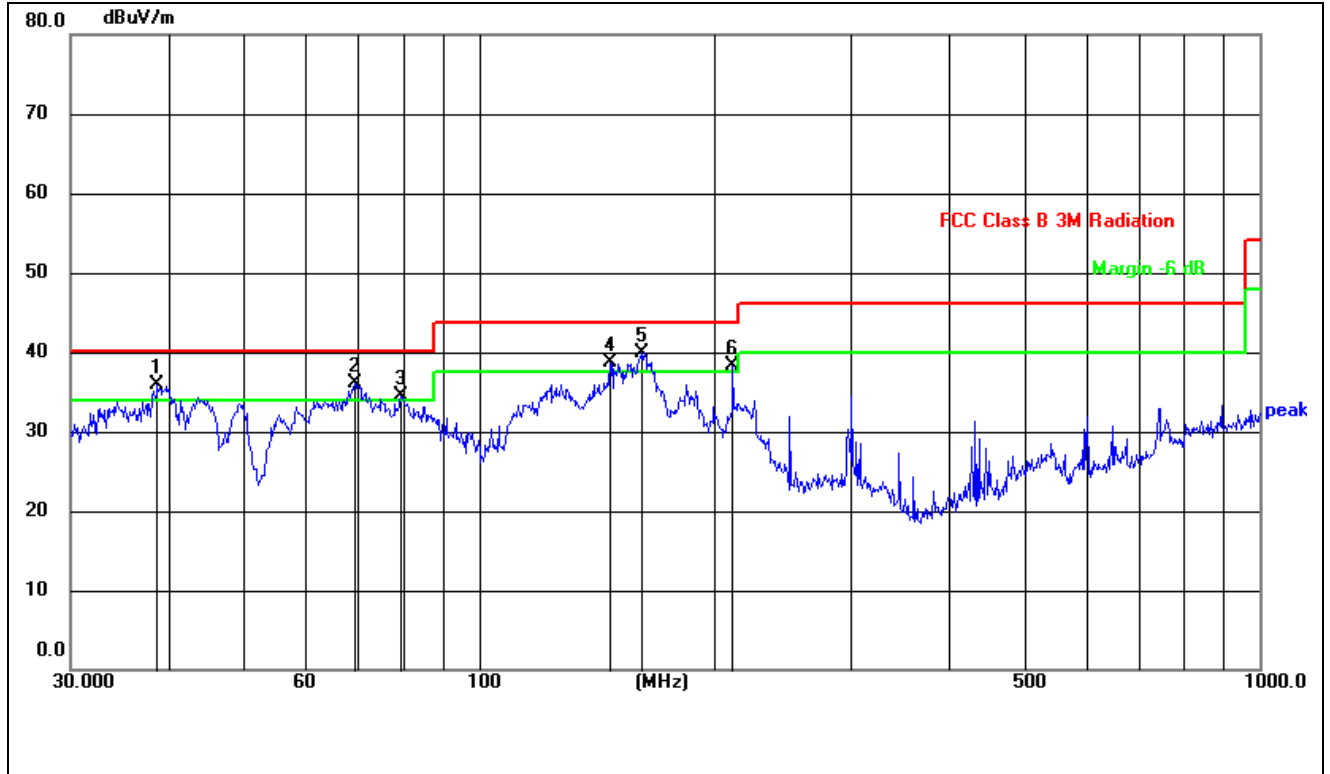
■ **9kHz~30MHz**

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), the test result no need to reported.

■ Below 1GHz

All mode has been tested, the report only shows the worst mode of 802.11n20 (2462MHz).

Test polarization:	Vertical	Test voltage:	DC 5V
Temp.:	22.6°C	Humid.:	61%RH



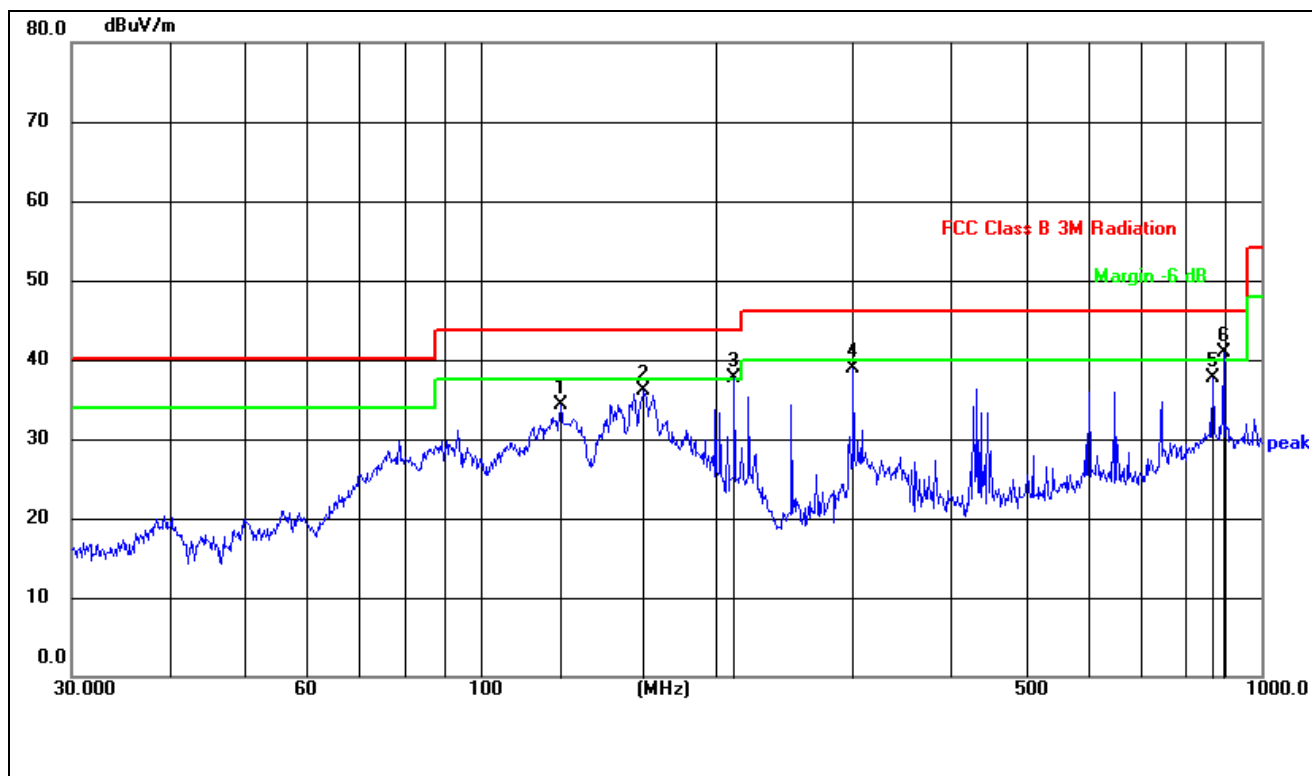
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	38.7516	56.59	-20.76	35.83	40.00	-4.17	QP
2	69.3568	56.59	-20.54	36.05	40.00	-3.95	QP
3	79.5207	54.88	-20.31	34.57	40.00	-5.43	QP
4	147.4036	57.74	-18.99	38.75	43.50	-4.75	QP
5	162.0413	58.62	-18.79	39.83	43.50	-3.67	QP
6	211.5261	56.84	-18.55	38.29	43.50	-5.21	QP

Remarks:

Level = Receiver Reading + Factor

Factor = Antenna Factor + Cable Factor - Preamplifier Factor

Test polarization:	Horizontal	Test voltage:	DC 5V
Temp.:	22.6°C	Humid.:	61%RH



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	126.7723	53.30	-19.09	34.21	43.50	-9.29	QP
2	162.0413	54.76	-18.62	36.14	43.50	-7.36	QP
3	211.5261	56.31	-18.57	37.74	43.50	-5.76	QP
4	300.3672	57.45	-18.55	38.90	46.00	-7.10	QP
5	866.0878	44.69	-6.90	37.79	46.00	-8.21	QP
6	893.8564	47.47	-6.65	40.82	46.00	-5.18	QP

Remarks:

Level = Receiver Reading + Factor

Factor = Antenna Factor + Cable Factor - Preamplifier Factor



■ 1GHz-25GHz

Temp.:	22.6°C	Humid.:	61%RH
Test voltage:	DC 5V		

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

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	53.46	-7.66	45.80	74.00	-28.20	Vertical
7236.00	48.22	-1.62	46.60	74.00	-27.40	Vertical
9648.00	46.58	1.27	47.85	74.00	-26.15	Vertical
12060.00	*	--	--	74.00	--	Vertical
14472.00	*	--	--	74.00	--	Vertical
16884.00	*	--	--	74.00	--	Vertical
4824.00	53.77	-7.66	46.11	74.00	-27.89	Horizontal
7236.00	49.27	-1.62	47.65	74.00	-26.35	Horizontal
9648.00	47.07	1.27	48.34	74.00	-25.66	Horizontal
12060.00	*	--	--	74.00	--	Horizontal
14472.00	*	--	--	74.00	--	Horizontal
16884.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	42.52	-7.66	34.86	54.00	-19.14	Vertical
7236.00	37.33	-1.62	35.71	54.00	-18.29	Vertical
9648.00	36.61	1.27	37.88	54.00	-16.12	Vertical
12060.00	*	--	--	54.00	--	Vertical
14472.00	*	--	--	54.00	--	Vertical
16884.00	*	--	--	54.00	--	Vertical
4824.00	43.31	-7.66	35.65	54.00	-18.35	Horizontal
7236.00	39.02	-1.62	37.40	54.00	-16.60	Horizontal
9648.00	36.86	1.27	38.13	54.00	-15.87	Horizontal
12060.00	*	--	--	54.00	--	Horizontal
14472.00	*	--	--	54.00	--	Horizontal
16884.00	*	--	--	54.00	--	Horizontal

Remark:

1. Level = Read level + Factor
2. Factor = Antenna Factor + Cable Loss – Preamplifier Factor
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. 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)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	53.64	-7.58	46.06	74.00	-27.94	Vertical
7311.00	46.81	-1.40	45.41	74.00	-28.59	Vertical
9748.00	47.09	1.20	48.29	74.00	-25.71	Vertical
12185.00	*	--	--	74.00	--	Vertical
14622.00	*	--	--	74.00	--	Vertical
17059.00	*	--	--	74.00	--	Vertical
4874.00	53.53	-7.58	45.95	74.00	-28.05	Horizontal
7311.00	48.44	-1.40	47.04	74.00	-26.96	Horizontal
9748.00	47.25	1.20	48.45	74.00	-25.55	Horizontal
12185.00	*	--	--	74.00	--	Horizontal
14622.00	*	--	--	74.00	--	Horizontal
17059.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	43.04	-7.58	35.46	54.00	-18.54	Vertical
7311.00	37.69	-1.40	36.29	54.00	-17.71	Vertical
9748.00	36.05	1.20	37.25	54.00	-16.75	Vertical
12185.00	*	--	--	54.00	--	Vertical
14622.00	*	--	--	54.00	--	Vertical
17059.00	*	--	--	54.00	--	Vertical
4874.00	44.63	-7.58	37.05	54.00	-16.95	Horizontal
7311.00	40.29	-1.40	38.89	54.00	-15.11	Horizontal
9748.00	37.33	1.20	38.53	54.00	-15.47	Horizontal
12185.00	*	--	--	54.00	--	Horizontal
14622.00	*	--	--	54.00	--	Horizontal
17059.00	*	--	--	54.00	--	Horizontal

Remark:

1. Level = Read level + Factor
2. Factor = Antenna Factor + Cable Loss – Preamplifier Factor
3. “*”, means this data is too weak instrument of signal is unable to test.
4. 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)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	55.01	-7.49	47.52	74.00	-26.48	Vertical
7386.00	48.12	-1.18	46.94	74.00	-27.06	Vertical
9848.00	47.99	1.12	49.11	74.00	-24.89	Vertical
12310.00	*	--	--	74.00	--	Vertical
14772.00	*	--	--	74.00	--	Vertical
17234.00	*	--	--	74.00	--	Vertical
4924.00	54.62	-7.49	47.13	74.00	-26.87	Horizontal
7386.00	48.66	-1.18	47.48	74.00	-26.52	Horizontal
9848.00	47.71	1.12	48.83	74.00	-25.17	Horizontal
12310.00	*	--	--	74.00	--	Horizontal
14772.00	*	--	--	74.00	--	Horizontal
17234.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	43.97	-7.49	36.48	54.00	-17.52	Vertical
7386.00	38.28	-1.18	37.10	54.00	-16.90	Vertical
9848.00	37.63	1.12	38.75	54.00	-15.25	Vertical
12310.00	*	--	--	54.00	--	Vertical
14772.00	*	--	--	54.00	--	Vertical
17234.00	*	--	--	54.00	--	Vertical
4924.00	46.10	-7.49	38.61	54.00	-15.39	Horizontal
7386.00	41.38	-1.18	40.20	54.00	-13.80	Horizontal
9848.00	38.61	1.12	39.73	54.00	-14.27	Horizontal
12310.00	*	--	--	54.00	--	Horizontal
14772.00	*	--	--	54.00	--	Horizontal
17234.00	*	--	--	54.00	--	Horizontal

Remark:

1. $Level = Read\ level + Factor$
2. $Factor = Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor$
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. 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)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	57.39	-7.66	49.73	74.00	-24.27	Vertical
7236.00	51.77	-1.62	50.15	74.00	-23.85	Vertical
9648.00	49.18	1.27	50.45	74.00	-23.55	Vertical
12060.00	*	--	--	74.00	--	Vertical
14472.00	*	--	--	74.00	--	Vertical
16884.00	*	--	--	74.00	--	Vertical
4824.00	56.26	-7.66	48.60	74.00	-25.40	Horizontal
7236.00	50.17	-1.62	48.55	74.00	-25.45	Horizontal
9648.00	48.52	1.27	49.79	74.00	-24.21	Horizontal
12060.00	*	--	--	74.00	--	Horizontal
14472.00	*	--	--	74.00	--	Horizontal
16884.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	45.95	-7.66	38.29	54.00	-15.71	Vertical
7236.00	39.49	-1.62	37.87	54.00	-16.14	Vertical
9648.00	38.18	1.27	39.45	54.00	-14.55	Vertical
12060.00	*	--	--	54.00	--	Vertical
14472.00	*	--	--	54.00	--	Vertical
16884.00	*	--	--	54.00	--	Vertical
4824.00	46.05	-7.66	38.39	54.00	-15.61	Horizontal
7236.00	41.49	-1.62	39.87	54.00	-14.13	Horizontal
9648.00	39.19	1.27	40.46	54.00	-13.54	Horizontal
12060.00	*	--	--	54.00	--	Horizontal
14472.00	*	--	--	54.00	--	Horizontal
16884.00	*	--	--	54.00	--	Horizontal

Remark:

1. Level = Read level + Factor
2. Factor = Antenna Factor + Cable Loss – Preamplifier Factor
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. 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)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	57.17	-7.58	49.59	74.00	-24.41	Vertical
7311.00	51.75	-1.40	50.35	74.00	-23.65	Vertical
9748.00	48.76	1.20	49.96	74.00	-24.04	Vertical
12185.00	*	--	--	74.00	--	Vertical
14622.00	*	--	--	74.00	--	Vertical
17059.00	*	--	--	74.00	--	Vertical
4874.00	56.69	-7.58	49.11	74.00	-24.89	Horizontal
7311.00	51.46	-1.40	50.06	74.00	-23.94	Horizontal
9748.00	49.22	1.20	50.42	74.00	-23.58	Horizontal
12185.00	*	--	--	74.00	--	Horizontal
14622.00	*	--	--	74.00	--	Horizontal
17059.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	45.33	-7.58	37.75	54.00	-16.25	Vertical
7311.00	40.84	-1.40	39.44	54.00	-14.56	Vertical
9748.00	38.92	1.20	40.12	54.00	-13.88	Vertical
12185.00	*	--	--	54.00	--	Vertical
14622.00	*	--	--	54.00	--	Vertical
17059.00	*	--	--	54.00	--	Vertical
4874.00	45.55	-7.58	37.97	54.00	-16.03	Horizontal
7311.00	40.27	-1.40	38.87	54.00	-15.13	Horizontal
9748.00	37.70	1.20	38.90	54.00	-15.10	Horizontal
12185.00	*	--	--	54.00	--	Horizontal
14622.00	*	--	--	54.00	--	Horizontal
17059.00	*	--	--	54.00	--	Horizontal

Remark:

1. Level = Read level + Factor
2. Factor =Antenna Factor + Cable Loss – Preamplifier Factor
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. 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)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	57.21	-7.49	49.72	74.00	-24.28	Vertical
7386.00	51.36	-1.18	50.18	74.00	-23.82	Vertical
9848.00	49.27	1.12	50.39	74.00	-23.61	Vertical
12310.00	*	--	--	74.00	--	Vertical
14772.00	*	--	--	74.00	--	Vertical
17234.00	*	--	--	74.00	--	Vertical
4924.00	57.57	-7.49	50.08	74.00	-23.92	Horizontal
7386.00	50.20	-1.18	49.02	74.00	-24.98	Horizontal
9848.00	49.31	1.12	50.43	74.00	-23.57	Horizontal
12310.00	*	--	--	74.00	--	Horizontal
14772.00	*	--	--	74.00	--	Horizontal
17234.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	45.42	-7.49	37.93	54.00	-16.07	Vertical
7386.00	39.56	-1.18	38.38	54.00	-15.62	Vertical
9848.00	38.96	1.12	40.08	54.00	-13.93	Vertical
12310.00	*	--	--	54.00	--	Vertical
14772.00	*	--	--	54.00	--	Vertical
17234.00	*	--	--	54.00	--	Vertical
4924.00	45.78	-7.49	38.29	54.00	-15.71	Horizontal
7386.00	40.67	-1.18	39.49	54.00	-14.51	Horizontal
9848.00	37.97	1.12	39.09	54.00	-14.91	Horizontal
12310.00	*	--	--	54.00	--	Horizontal
14772.00	*	--	--	54.00	--	Horizontal
17234.00	*	--	--	54.00	--	Horizontal

Remark:

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

Test mode:	802.11n20	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	56.37	-7.66	48.71	74.00	-25.29	Vertical
7236.00	51.54	-1.62	49.92	74.00	-24.08	Vertical
9648.00	49.17	1.27	50.44	74.00	-23.56	Vertical
12060.00	*	--	--	74.00	--	Vertical
14472.00	*	--	--	74.00	--	Vertical
16884.00	*	--	--	74.00	--	Vertical
4824.00	56.88	-7.66	49.22	74.00	-24.78	Horizontal
7236.00	52.18	-1.62	50.56	74.00	-23.44	Horizontal
9648.00	49.41	1.27	50.68	74.00	-23.32	Horizontal
12060.00	*	--	--	74.00	--	Horizontal
14472.00	*	--	--	74.00	--	Horizontal
16884.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	45.94	-7.66	38.28	54.00	-15.72	Vertical
7236.00	40.69	-1.62	39.07	54.00	-14.93	Vertical
9648.00	38.80	1.27	40.07	54.00	-13.93	Vertical
12060.00	*	--	--	54.00	--	Vertical
14472.00	*	--	--	54.00	--	Vertical
16884.00	*	--	--	54.00	--	Vertical
4824.00	46.38	-7.66	38.72	54.00	-15.29	Horizontal
7236.00	41.22	-1.62	39.60	54.00	-14.40	Horizontal
9648.00	38.94	1.27	40.21	54.00	-13.79	Horizontal
12060.00	*	--	--	54.00	--	Horizontal
14472.00	*	--	--	54.00	--	Horizontal
16884.00	*	--	--	54.00	--	Horizontal

Remark:

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



Test mode:	802.11n20	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	57.06	-7.58	49.48	74.00	-24.52	Vertical
7311.00	50.88	-1.40	49.48	74.00	-24.52	Vertical
9748.00	48.76	1.20	49.96	74.00	-24.04	Vertical
12185.00	*	--	--	74.00	--	Vertical
14622.00	*	--	--	74.00	--	Vertical
17059.00	*	--	--	74.00	--	Vertical
4874.00	57.74	-7.58	50.16	74.00	-23.84	Horizontal
7311.00	50.71	-1.40	49.31	74.00	-24.69	Horizontal
9748.00	49.53	1.20	50.73	74.00	-23.27	Horizontal
12185.00		--	--	74.00	--	Horizontal
14622.00	*	--	--	74.00	--	Horizontal
17059.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	46.45	-7.58	38.87	54.00	-15.13	Vertical
7311.00	39.54	-1.40	38.14	54.00	-15.86	Vertical
9748.00	38.70	1.20	39.90	54.00	-14.10	Vertical
12185.00	*	--	--	54.00	--	Vertical
14622.00	*	--	--	54.00	--	Vertical
17059.00	*	--	--	54.00	--	Vertical
4874.00	45.71	-7.58	38.13	54.00	-15.87	Horizontal
7311.00	41.03	-1.40	39.63	54.00	-14.37	Horizontal
9748.00	38.02	1.20	39.22	54.00	-14.78	Horizontal
12185.00	*	--	--	54.00	--	Horizontal
14622.00	*	--	--	54.00	--	Horizontal
17059.00	*	--	--	54.00	--	Horizontal

Remark:

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



Test mode:	802.11n20	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	56.99	-7.49	49.50	74.00	-24.50	Vertical
7386.00	50.62	-1.18	49.44	74.00	-24.57	Vertical
9848.00	49.85	1.12	50.97	74.00	-23.03	Vertical
12310.00	*	--	--	74.00	--	Vertical
14772.00	*	--	--	74.00	--	Vertical
17234.00	*	--	--	74.00	--	Vertical
4924.00	56.45	-7.49	48.96	74.00	-25.05	Horizontal
7386.00	50.32	-1.18	49.14	74.00	-24.86	Horizontal
9848.00	49.27	1.12	50.39	74.00	-23.61	Horizontal
12310.00	*	--	--	74.00	--	Horizontal
14772.00	*	--	--	74.00	--	Horizontal
17234.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	45.17	-7.49	37.68	54.00	-16.32	Vertical
7386.00	39.47	-1.18	38.29	54.00	-15.71	Vertical
9848.00	38.49	1.12	39.61	54.00	-14.39	Vertical
12310.00	*	--	--	54.00	--	Vertical
14772.00	*	--	--	54.00	--	Vertical
17234.00	*	--	--	54.00	--	Vertical
4924.00	45.61	-7.49	38.12	54.00	-15.88	Horizontal
7386.00	39.67	-1.18	38.49	54.00	-15.51	Horizontal
9848.00	37.97	1.12	39.09	54.00	-14.91	Horizontal
12310.00	*	--	--	54.00	--	Horizontal
14772.00	*	--	--	54.00	--	Horizontal
17234.00	*	--	--	54.00	--	Horizontal

Remark:

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



Test mode:	802.11n40	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	56.86	-7.63	49.23	74.00	-24.77	Vertical
7266.00	52.08	-1.53	50.55	74.00	-23.45	Vertical
9688.00	48.77	1.24	50.01	74.00	-23.99	Vertical
12060.00	*	--	--	74.00	--	Vertical
14472.00	*	--	--	74.00	--	Vertical
16884.00	*	--	--	74.00	--	Vertical
4844.00	58.05	-7.63	50.42	74.00	-23.58	Horizontal
7266.00	50.86	-1.53	49.33	74.00	-24.67	Horizontal
9688.00	48.98	1.24	50.22	74.00	-23.78	Horizontal
12060.00	*	--	--	74.00	--	Horizontal
14472.00	*	--	--	74.00	--	Horizontal
16884.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	46.30	-7.63	38.67	54.00	-15.33	Vertical
7266.00	39.61	-1.53	38.08	54.00	-15.92	Vertical
9688.00	38.14	1.24	39.38	54.00	-14.62	Vertical
12060.00	*	--		54.00		Vertical
14472.00	*	--		54.00		Vertical
16884.00	*	--		54.00		Vertical
4844.00	45.92	-7.63	38.29	54.00	-15.71	Horizontal
7266.00	41.11	-1.53	39.58	54.00	-14.42	Horizontal
9688.00	37.85	1.24	39.09	54.00	-14.91	Horizontal
12060.00	*	--		54.00		Horizontal
14472.00	*	--		54.00		Horizontal
16884.00	*	--		54.00		Horizontal

Remark:

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



Test mode:	802.11n40	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	57.11	-7.58	49.53	74.00	-24.47	Vertical
7311.00	52.28	-1.40	50.88	74.00	-23.12	Vertical
9748.00	47.57	1.20	48.77	74.00	-25.23	Vertical
12185.00	*	--	--	74.00	--	Vertical
14622.00	*	--	--	74.00	--	Vertical
17059.00	*	--	--	74.00	--	Vertical
4874.00	56.37	-7.58	48.79	74.00	-25.21	Horizontal
7311.00	50.67	-1.40	49.27	74.00	-24.73	Horizontal
9748.00	47.70	1.20	48.90	74.00	-25.10	Horizontal
12185.00	*	--	--	74.00	--	Horizontal
14622.00	*	--	--	74.00	--	Horizontal
17059.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	45.96	-7.58	38.38	54.00	-15.62	Vertical
7311.00	40.24	-1.40	38.84	54.00	-15.16	Vertical
9748.00	37.53	1.20	38.73	54.00	-15.27	Vertical
12185.00	*	--	--	54.00	--	Vertical
14622.00	*	--	--	54.00	--	Vertical
17059.00	*	--	--	54.00	--	Vertical
4874.00	46.67	-7.58	39.09	54.00	-14.91	Horizontal
7311.00	39.58	-1.40	38.18	54.00	-15.82	Horizontal
9748.00	37.64	1.20	38.84	54.00	-15.16	Horizontal
12185.00	*	--	--	54.00	--	Horizontal
14622.00	*	--	--	54.00	--	Horizontal
17059.00	*	--	--	54.00	--	Horizontal

Remark:

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



Test mode:	802.11n40	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	56.83	-7.52	49.31	74.00	-24.69	Vertical
7356.00	50.78	-1.26	49.52	74.00	-24.48	Vertical
9808.00	48.88	1.16	50.04	74.00	-23.96	Vertical
12310.00	*	--	--	74.00	--	Vertical
14772.00	*	--	--	74.00	--	Vertical
17234.00	*	--	--	74.00	--	Vertical
4904.00	56.48	-7.52	48.96	74.00	-25.04	Horizontal
7356.00	49.76	-1.26	48.50	74.00	-25.50	Horizontal
9808.00	48.53	1.16	49.69	74.00	-24.31	Horizontal
12310.00	*	--	--	74.00	--	Horizontal
14772.00	*	--	--	74.00	--	Horizontal
17234.00	*	--	--	74.00	--	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	45.40	-7.52	37.88	54.00	-16.12	Vertical
7356.00	39.73	-1.26	38.47	54.00	-15.53	Vertical
9808.00	37.86	1.16	39.02	54.00	-14.98	Vertical
12310.00	*	--	--	54.00	--	Vertical
14772.00	*	--	--	54.00	--	Vertical
17234.00	*	--	--	54.00	--	Vertical
4904.00	45.30	-7.52	37.78	54.00	-16.22	Horizontal
7356.00	40.89	-1.26	39.63	54.00	-14.37	Horizontal
9808.00	37.25	1.16	38.41	54.00	-15.59	Horizontal
12310.00	*	--	--	54.00	--	Horizontal
14772.00	*	--	--	54.00	--	Horizontal
17234.00	*	--	--	54.00	--	Horizontal

Remark:

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



5. Test Setup Photo

Reference to the file No.: ET-25072670SP for details.

6. EUT Constructional Details

Reference to the file No.: ET-25072670EP and ET-25072670IP for details.

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