Report No: JYTO-R01-2300209

FCC REPORT
(WIFI)

Applicant:	Xiamen Tenia Lighting & Electrical Co., Ltd
Address of Applicant:	NO.575, Second Ring South Road, Tong'an District, Xiamen, Fujian

Equipment Under Test (EUT)

Product Name:	Wi-Fi and Bluetooth Module
Model No.:	CB2S
FCC ID:	2AV7W-CB2S
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	20 June 2023
Date of Test:	20 June 2023 to 13 July 2023
Date of report issued:	25 July 2023
Test Result:	PASS*

* In the configuration tested, the EUT complied with the standards specified above.

1 Modified Information

Version No.	Date	Description
00	*25 July 2023*	*Original*

Prepared by: Leo Zhang ***Date:*** 25 July 2023

Leo Zhang/Engineer

Reviewed by: ***Date:*** 25 July 2023

Louis Ye/Manager

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3 Test Summary

Test Items	Section in CFR 47	Result
Antenna requirement	15.203&15.247 (b)	Pass
AC Power Line Conducted Emission	15.207	N/A
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205&15.209	Pass

Notes:

1. *Pass: The EUT complies with the essential requirements in the standard.*
2. *N/A:Not Applicable.*
3. *The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).*

Test Method:	*ANSI C63.4a-2017* *ANSI C63.10-2013* *KDB 558074 D01 15.247 Meas Guidance v05r02*

4 General Information

4.1 Client Information

Applicant:	Xiamen Tenia Lighting & Electrical Co., Ltd
Address:	NO.575, Second Ring South Road, Tong'an District, Xiamen, Fujian
Manufacturer/ Factory:	Xiamen Tenia Lighting & Electrical Co., Ltd
Address:	NO.575, Second Ring South Road, Tong'an District, Xiamen, Fujian

4.2 General Description of E.U.T.

Product Name:	Wi-Fi and Bluetooth Module
Model No.:	CB2S
Hardware Version:	V1.0.0
Software Version:	V1.0.0
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11n(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	PCB Antenna
Antenna gain:	0.04dBi
Power supply:	DC 3.3V
AC adapter:	N/A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel for 802.11b/g/n(H20)/n(H40)

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		

Notes:

1. *For 802.11n-HT40 mode, the channel number is from 3 to 9;*
2. *Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel. Channel 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest channel.*

4.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation

The sample was placed 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.
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:

Per-scan all kind of data rate, the follow list were the worst case.	
Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

4.4 Description of Support Units

The EUT has been tested as an independent unit.

4.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Radiated Emission (9kHz ~ 30MHz)	±3.5 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±3.8 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.6 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±4.8 dB (k=2)

4.6 Additions to, deviations, or exclusions from the method

No

4.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

●FCC - Designation No.: CN1279

Jianyan Testing Group Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 892155.

● ISED – CAB identifier.: CN0102

Jianyan Testing Group Co., Ltd. has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements with ISED#:26114.

●CNAS - Registration No.: CNAS L0658

Jianyan Testing Group Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L0658.

●A2LA - Registration No.: 5568.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/5568-01.pdf

4.8 Laboratory Location

JianYan Testing Group Co., Ltd.
Address: No.760, Fengling Road, Tong'an District, Xiamen, Fujian, China
Tel: +86-592-2273071, Fax:+86-592-2273700
Email: info-JYTee@lets.com, Website: http://jyt.lets.com

4.9 Test Instruments list

Radiated Emission:				
Test Equipment	**Manufacturer**	**Model No.**	**Equipment No.**	**Cal. Due date (mm-dd-yy)**
3m Semi-Anechoic Chamber	BOST	CHC-966	SBE0001	2027-11-30
EMI Test Receiver	R&S	ESR 3	SBE0005-1	2024-06-20
Spectrum Analyzer	R&S	FSV40-N	SBE0023-2	2024-02-26
Loop Antenna	ETS	6502	SBE0007-4	2024-03-02
BiConiLog Antenna	SCHWARZBECK	VULB 9163	SBE0007-3	2023-12-01
Horn Antenna	SCHWARZBECK	BBHA 9120 D	SBE0020	2024-03-02
Pre-amplifier	SCHWARZBECK	BBV9743	SBE0007-2	2024-06-20
Pre-amplifier	RF System	TRLA-010180G50B	SBE0021-1	2024-02-29
EMI Test Software	Farad	EZ-EMC	Version: V.EMCE-3A1	

Conducted method:				
Test Equipment	**Manufacturer**	**Model No.**	**Equipment No.**	**Cal. Due date (mm-dd-yy)**
Spectrum Analyzer	R&S	FSV40-N	SBE0023-2	2024-02-26
Test Software	MWRFTEST	MTS 8310	Version: 2.0.0.0	

5 Test results and Measurement Data

5.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(b)

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.

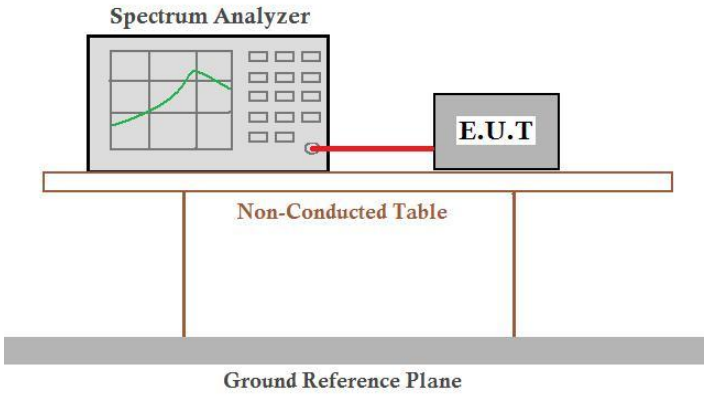
15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:	

The Wi-Fi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 0.04dBi.

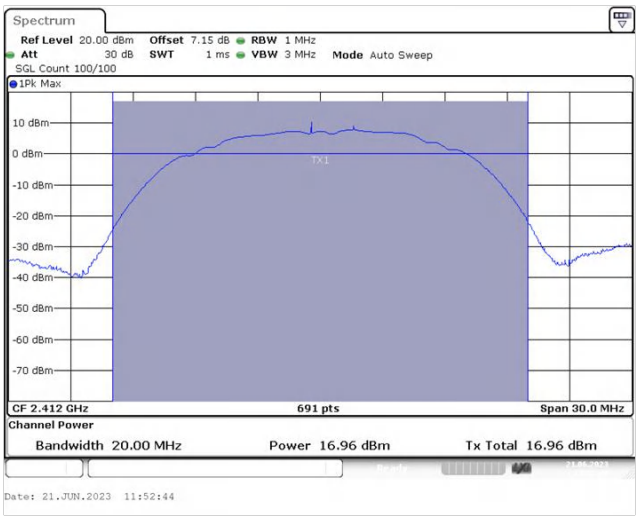
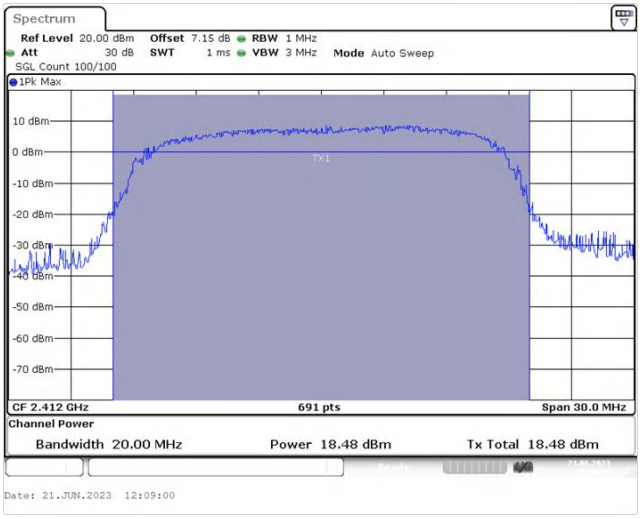
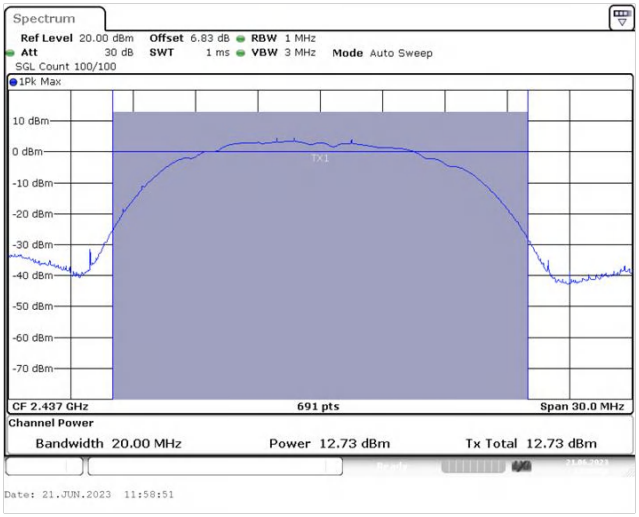
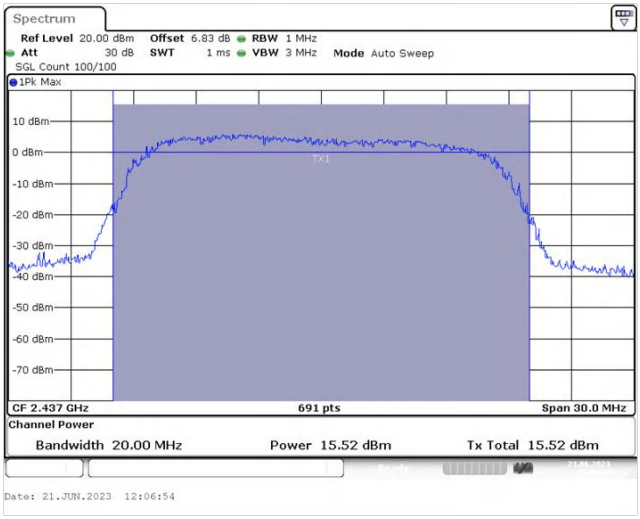
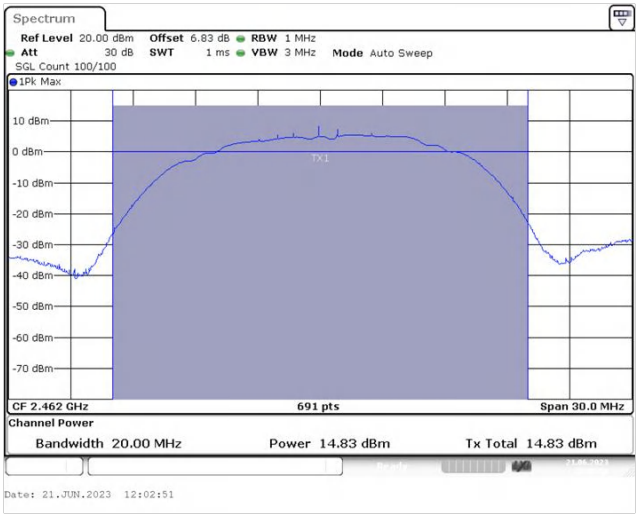
5.2 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 4.9 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass

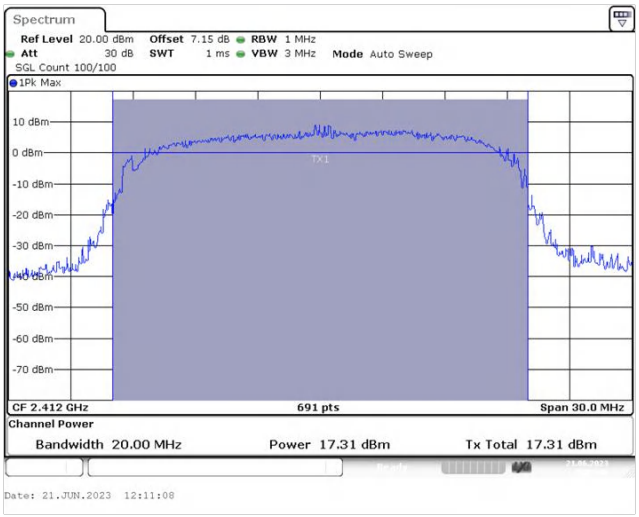
Measurement Data:

Test CH	Maximum Conducted Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	16.960	18.478	17.309	15.932	30.00	Pass
Middle	12.730	15.520	14.381	13.549		
Highest	14.826	17.343	16.184	13.236		

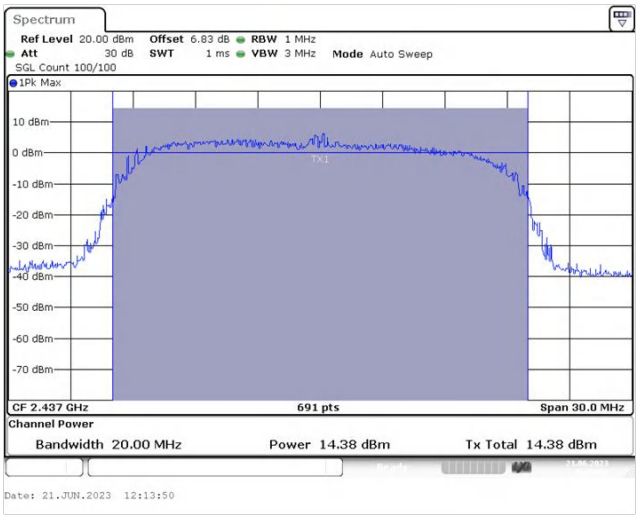
Test plot as follows:

802.11b	802.11g
	
Lowest channel	Lowest channel
	
Middle channel	Middle channel
	
Highest channel	Highest channel

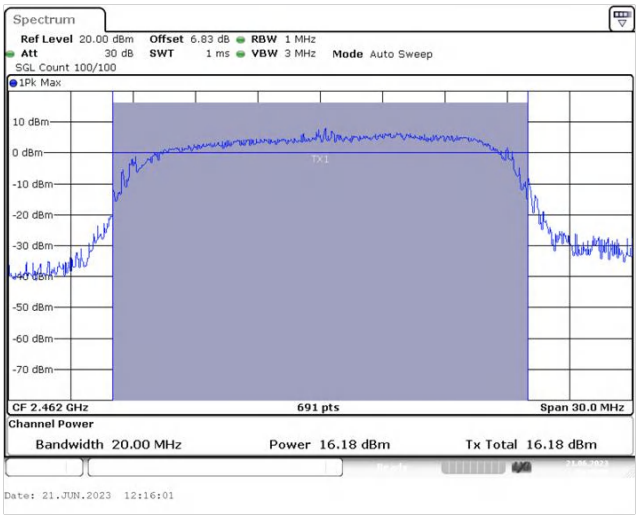
802.11n(HT20)



Lowest channel

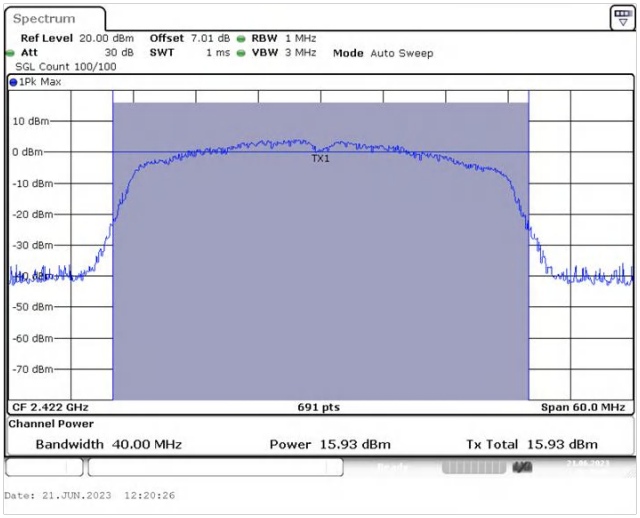


Middle channel

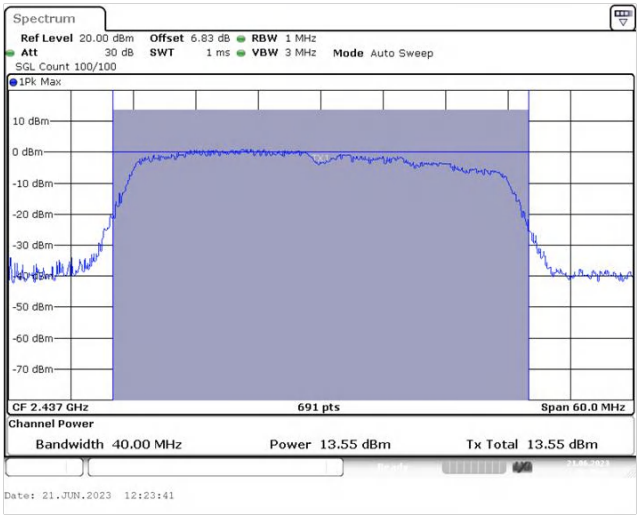


Highest channel

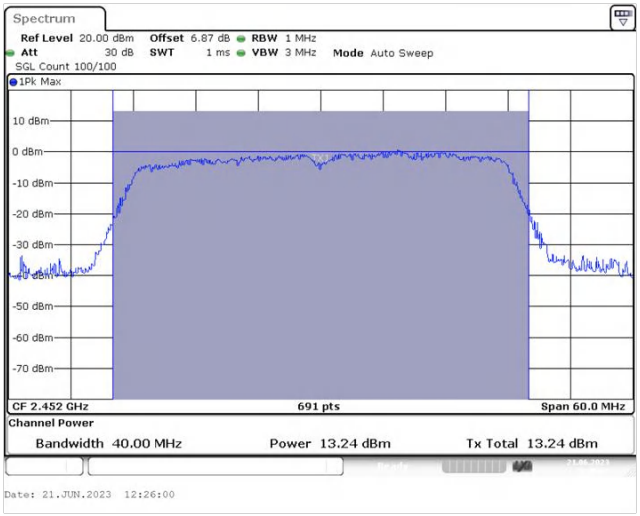
802.11n(HT40)



Lowest channel

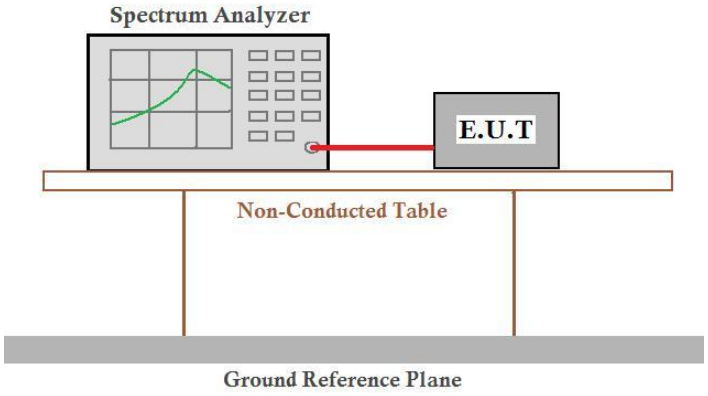


Middle channel



Highest channel

5.3 Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Limit:	>500kHz
Test setup:	
Test Instruments:	Refer to section 4.9 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass

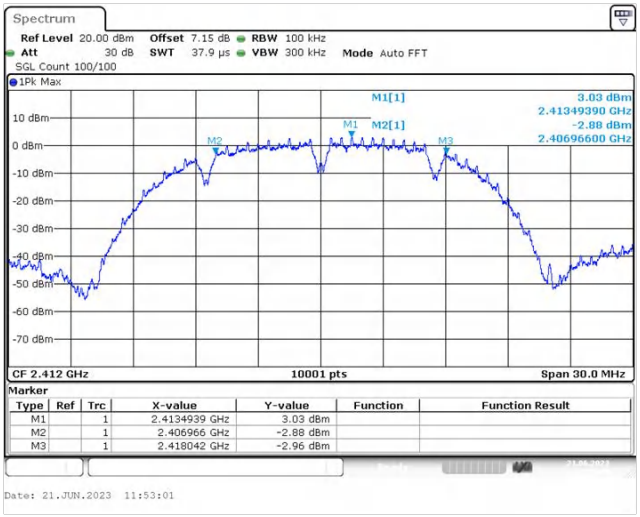
Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	11.076	15.693	16.662	22.566	>500	Pass
Middle	11.541	16.455	16.722	30.096		
Highest	12.339	16.476	15.474	34.074		
Test CH	99%Occupy Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	15.067	16.867	17.857	34.821	N/A	Pass
Middle	15.346	16.990	18.214	35.636		
Highest	15.319	16.906	17.986	36.128		

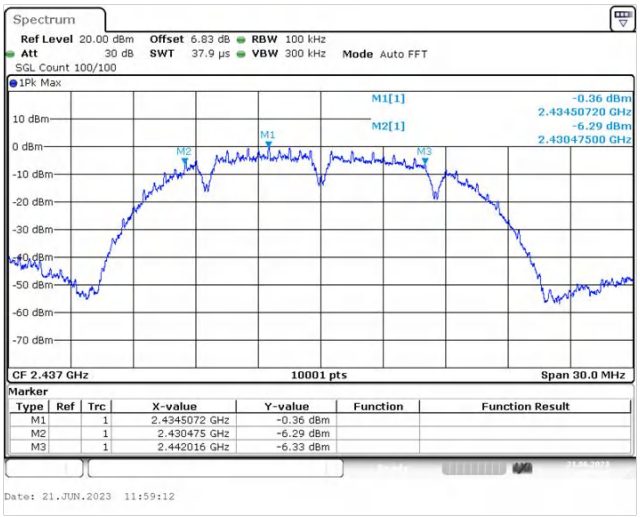
Test plot as follows:

802.11b

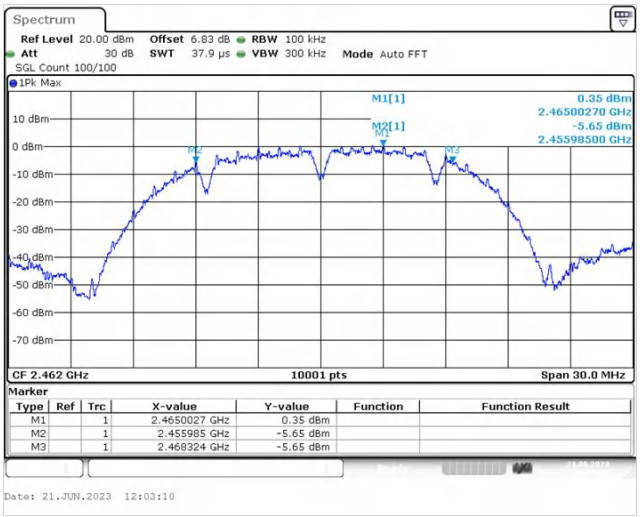
6dB EBW



Lowest channel

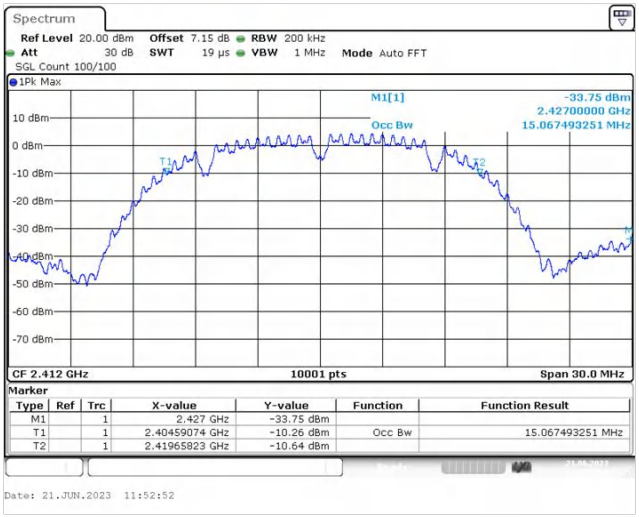


Middle channel

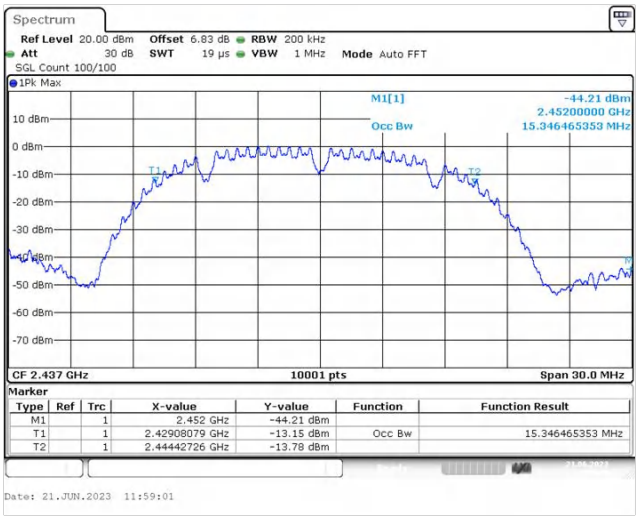


Highest channel

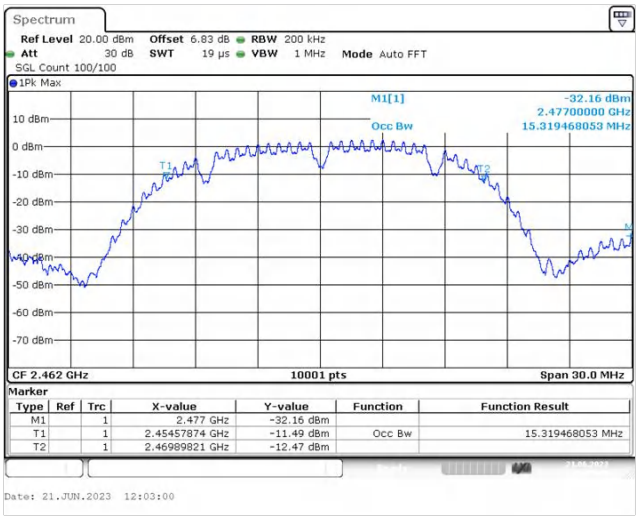
99% OBW



Lowest channel



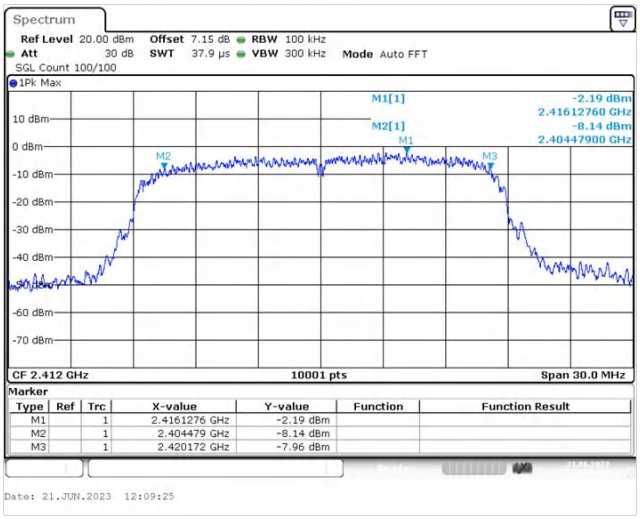
Middle channel



Highest channel

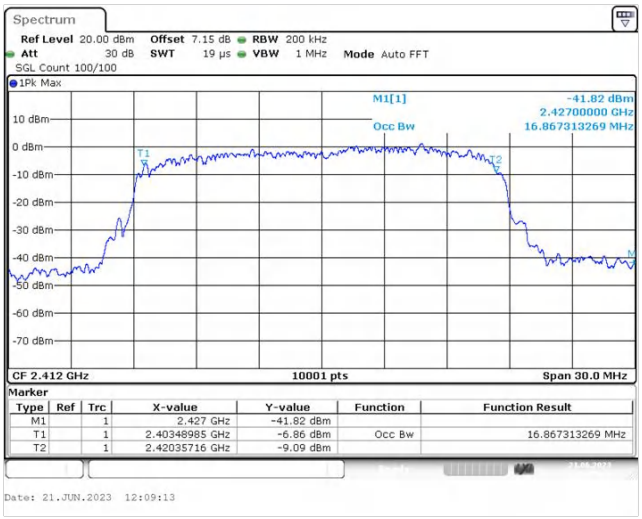
802.11g

6dB EBW

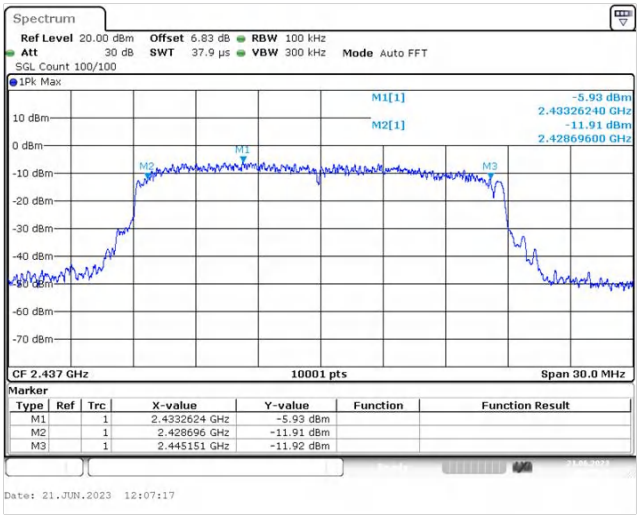


Lowest channel

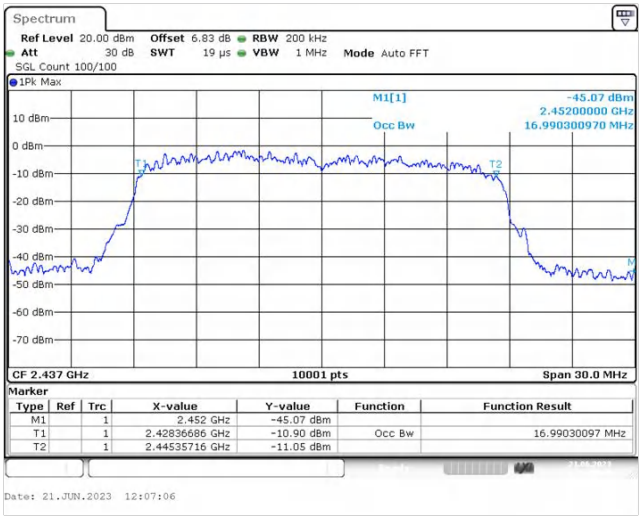
99% OBW



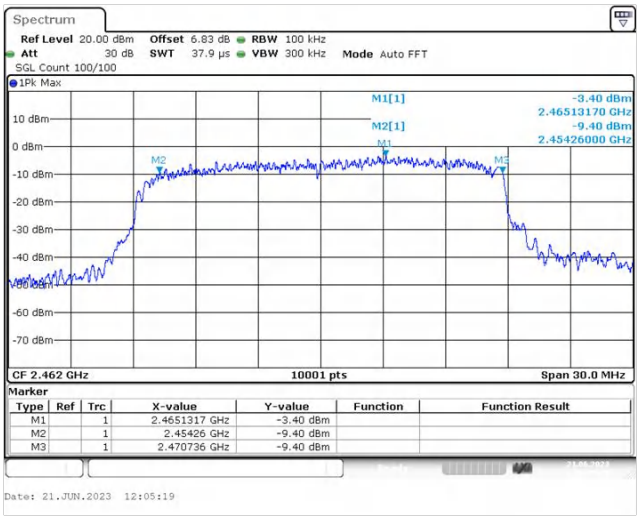
Lowest channel



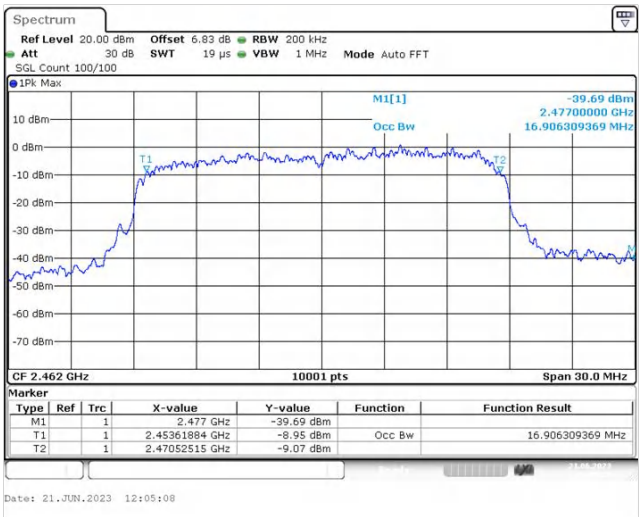
Middle channel



Middle channel



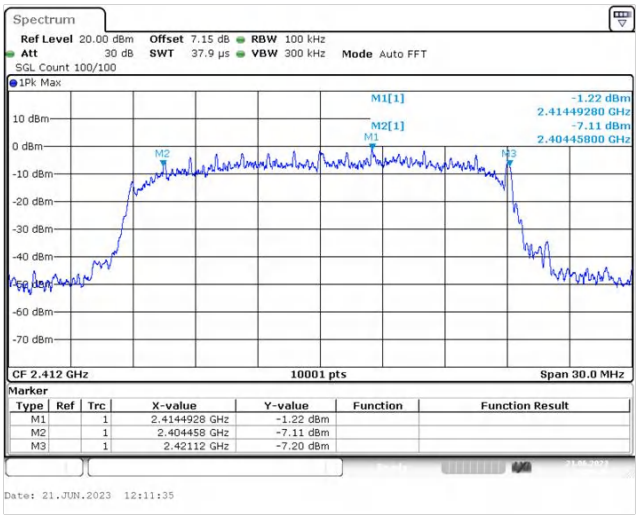
Highest channel



Highest channel

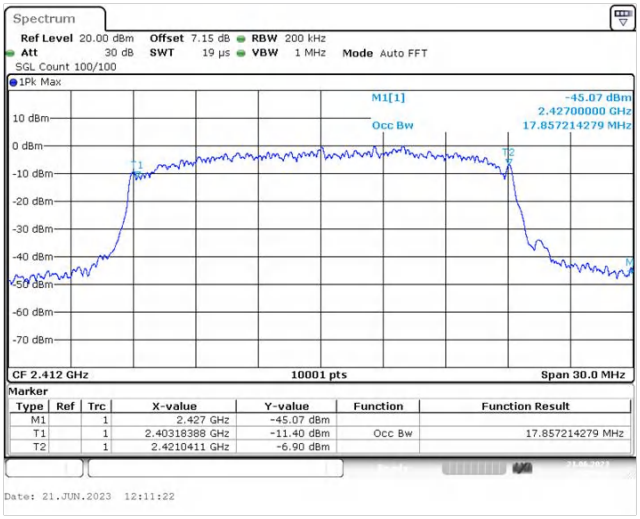
802.11n(H20)

6dB EBW

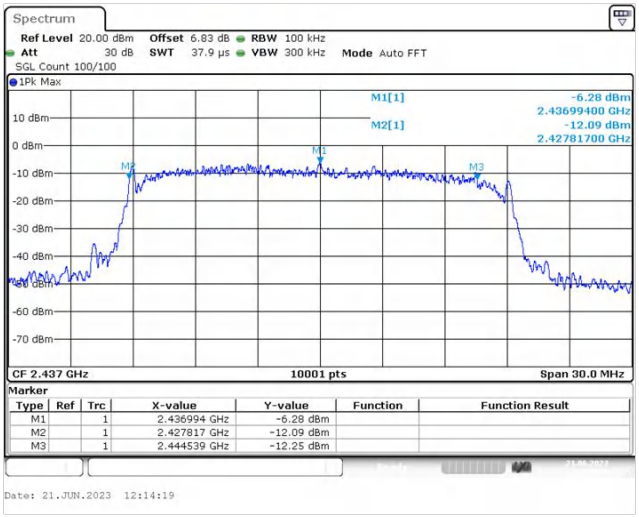


Lowest channel

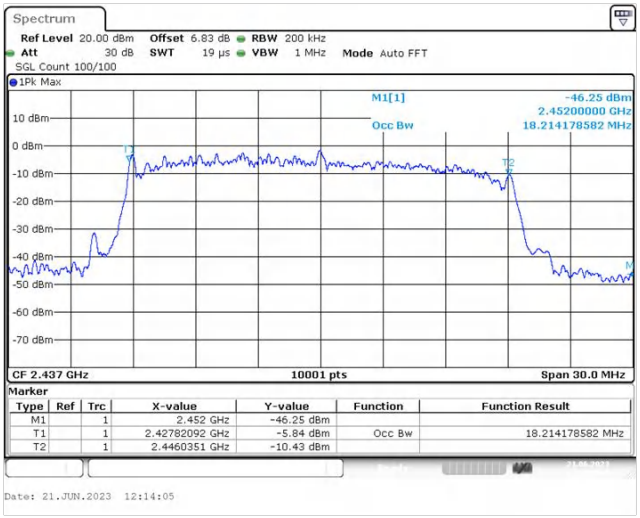
99% OBW



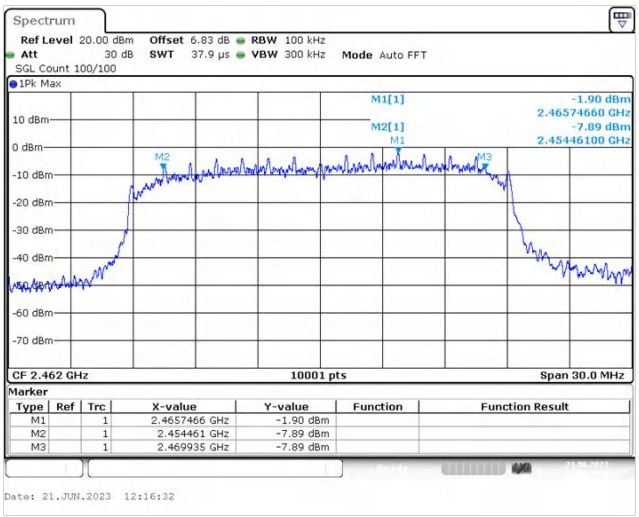
Lowest channel



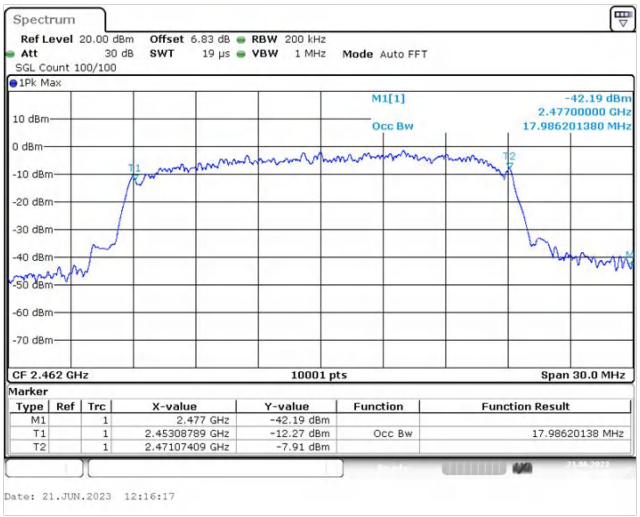
Middle channel



Middle channel



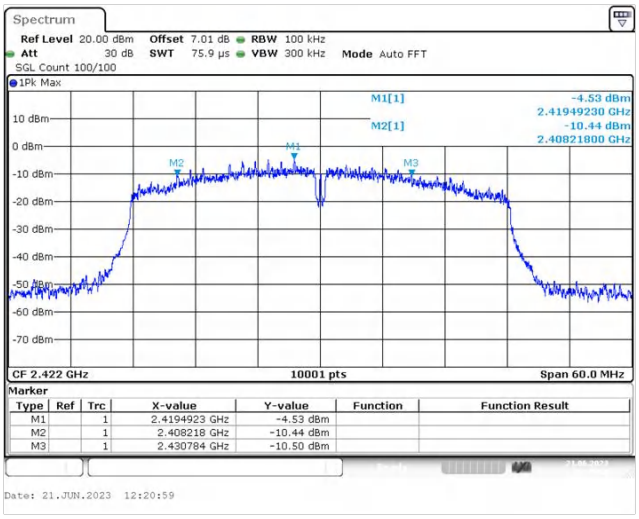
Highest channel



Highest channel

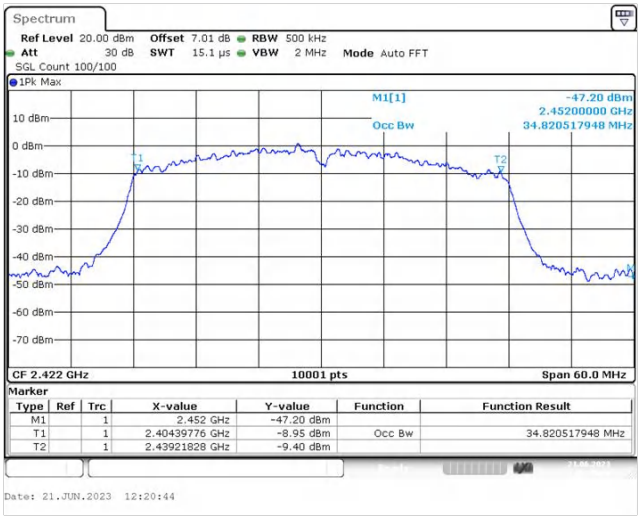
802.11n(H40)

6dB EBW

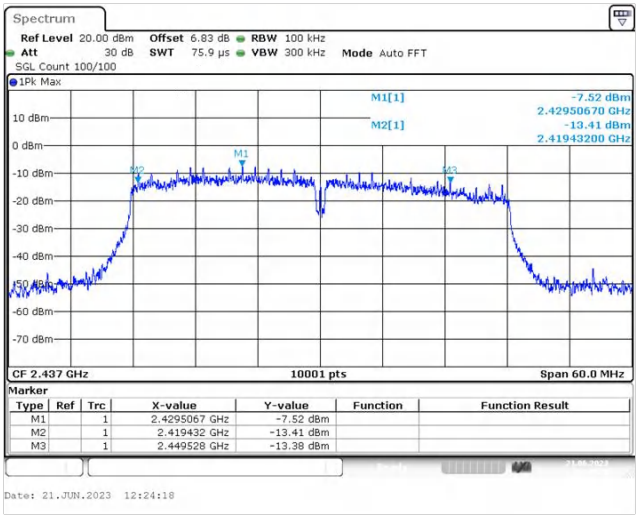


Lowest channel

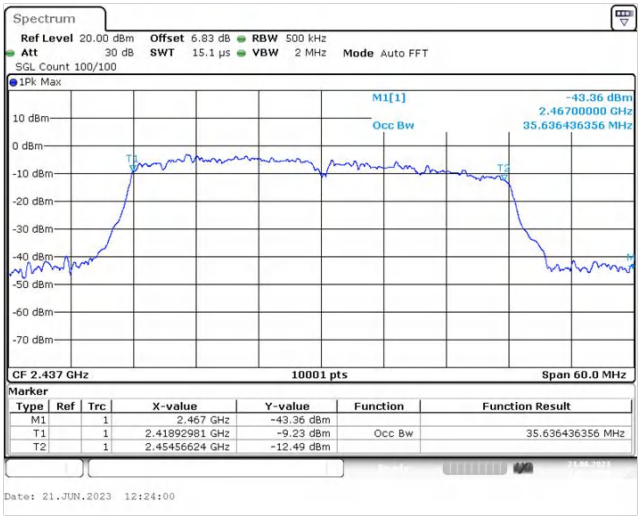
99% OBW



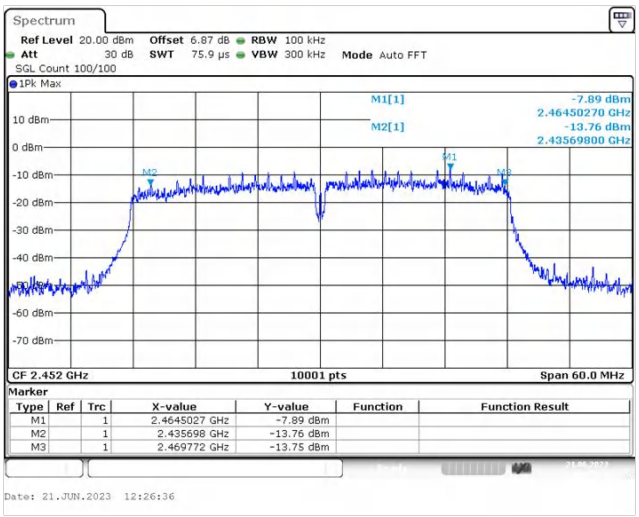
Lowest channel



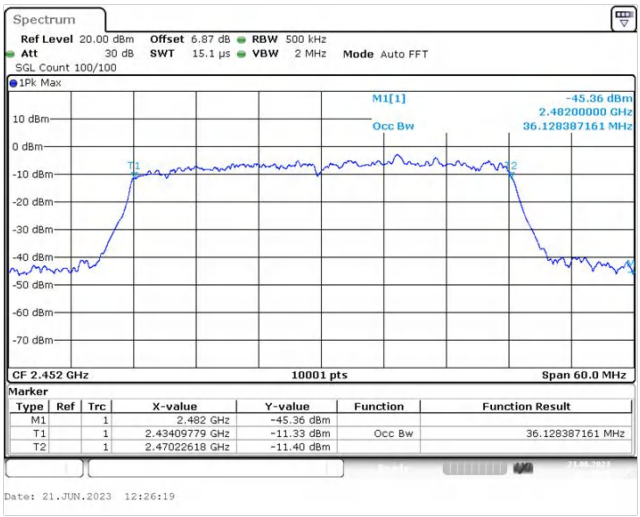
Middle channel



Middle channel

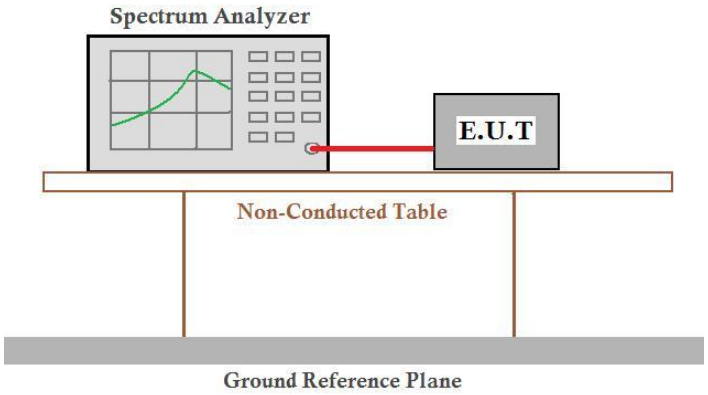


Highest channel



Highest channel

5.4 Power Spectral Density

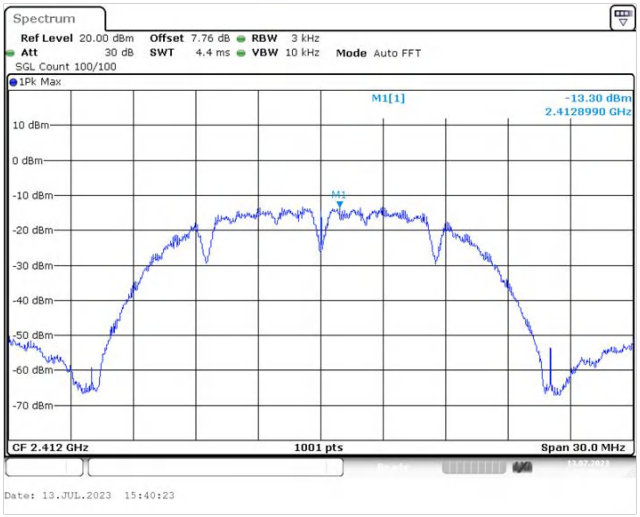
Test Requirement:	FCC Part15 C Section 15.247 (e)
Limit:	8dBm
Test setup:	
Test Instruments:	Refer to section 4.9 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass

Measurement Data:

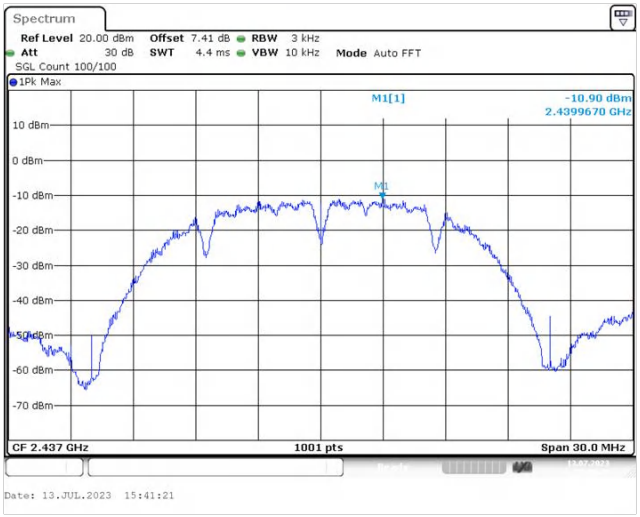
Test CH	Power Spectral Density (dBm/3kHz)				Limit (dBm/3kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	-13.299	-16.346	-16.862	-16.708	8.00	Pass
Middle	-10.898	-13.745	-14.731	-15.054		
Highest	-8.506	-11.904	-11.825	-13.339		

Test plot as follows:

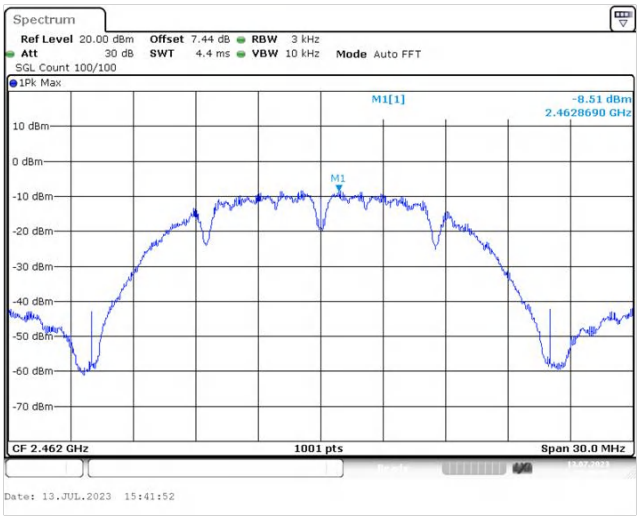
Test mode: 802.11b



Lowest channel

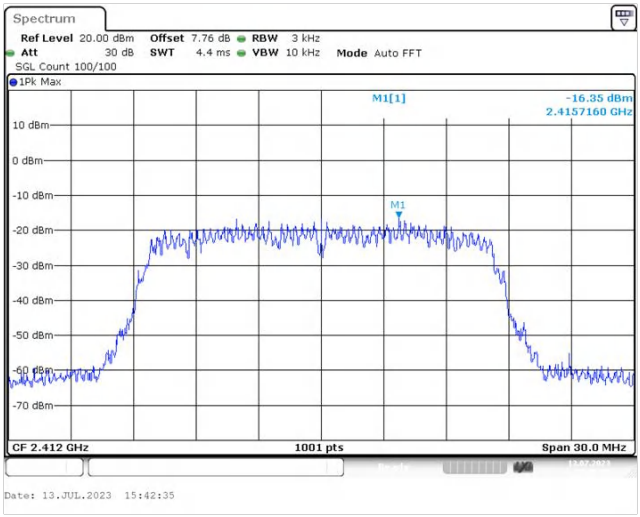


Middle channel

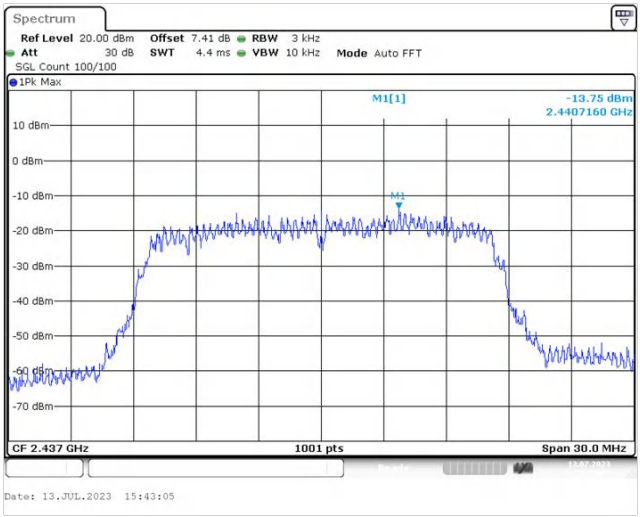


Highest channel

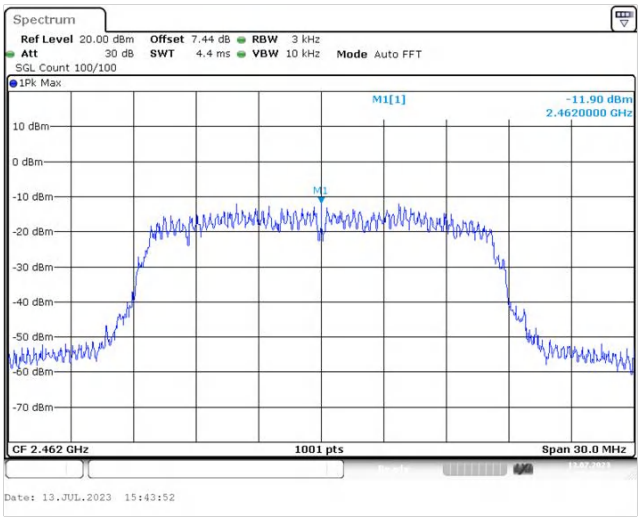
Test mode: 802.11g



Lowest channel

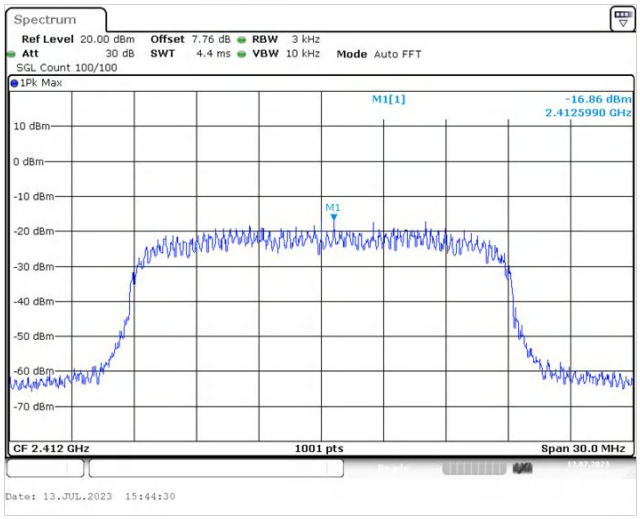


Middle channel



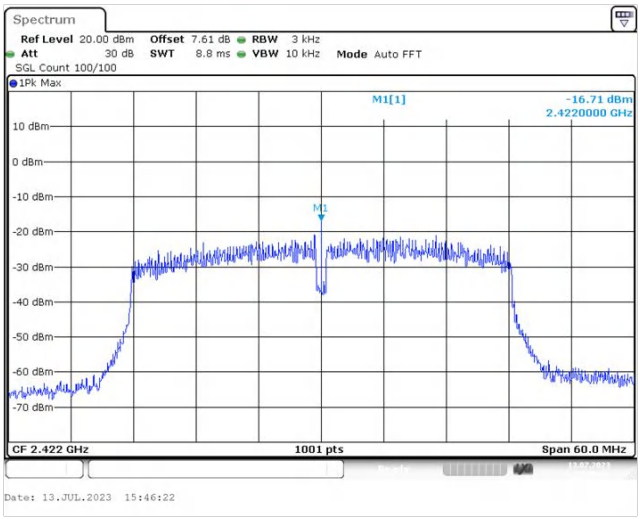
Highest channel

Test mode: 802.11n(H20)

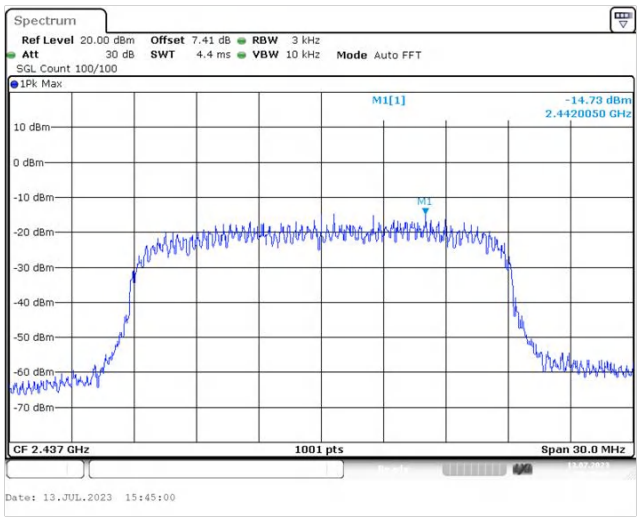


Lowest channel

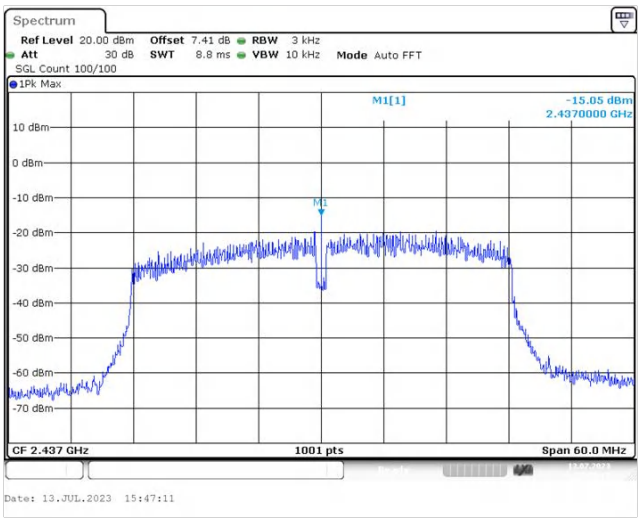
Test mode: 802.11n(H40)



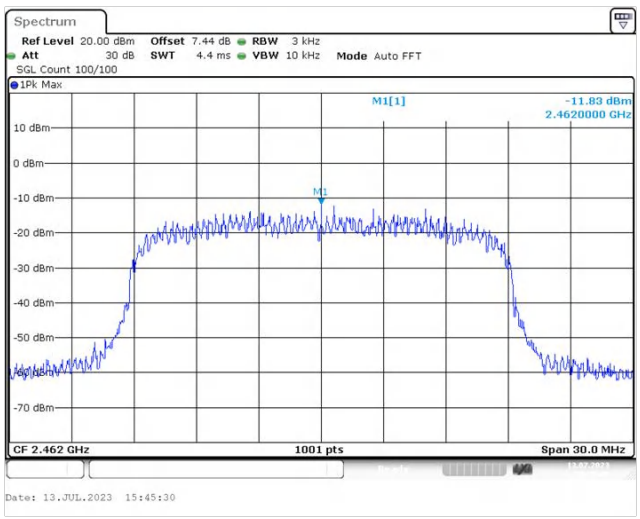
Lowest channel



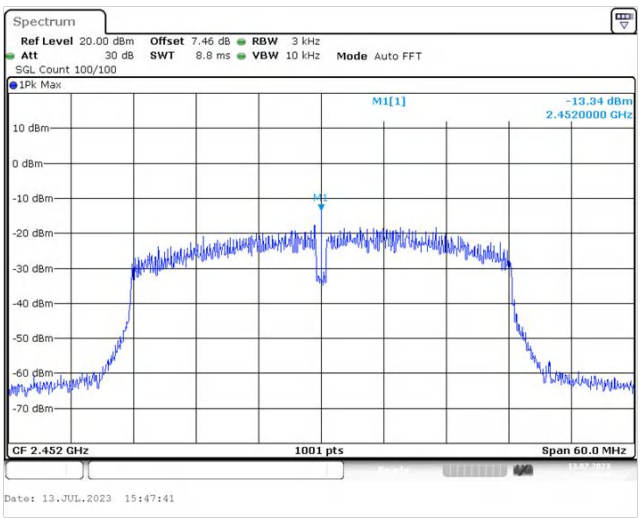
Middle channel



Middle channel



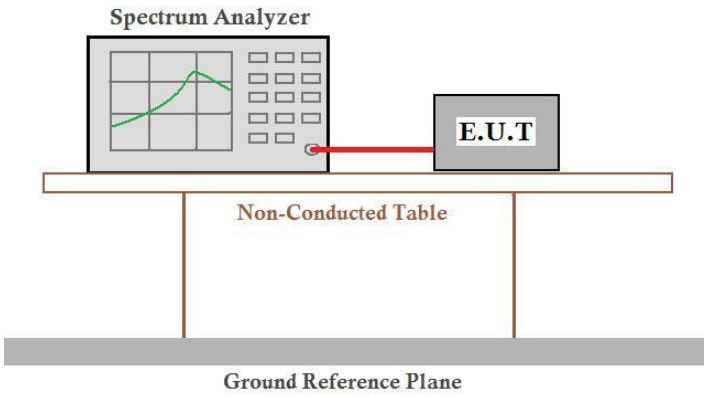
Highest channel



Highest channel

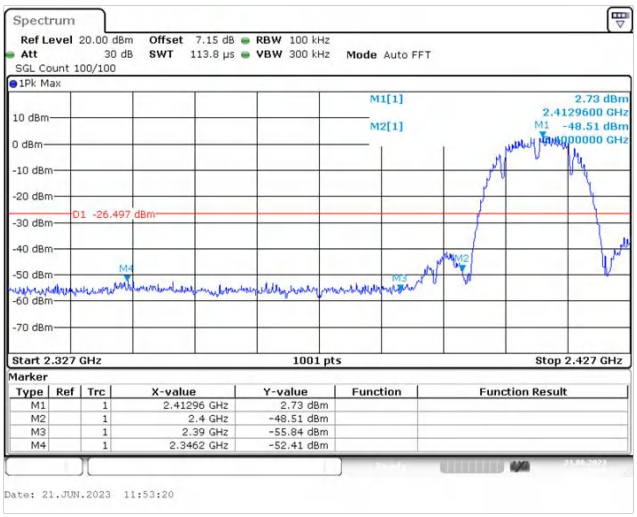
5.5 Band Edge

5.5.1 Conducted Emission Method

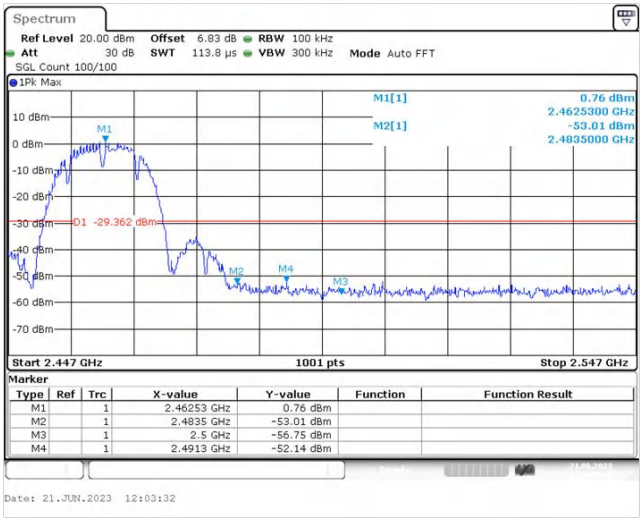
Test Requirement:	FCC Part15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 4.9 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass

Test plot as follows:

802.11b

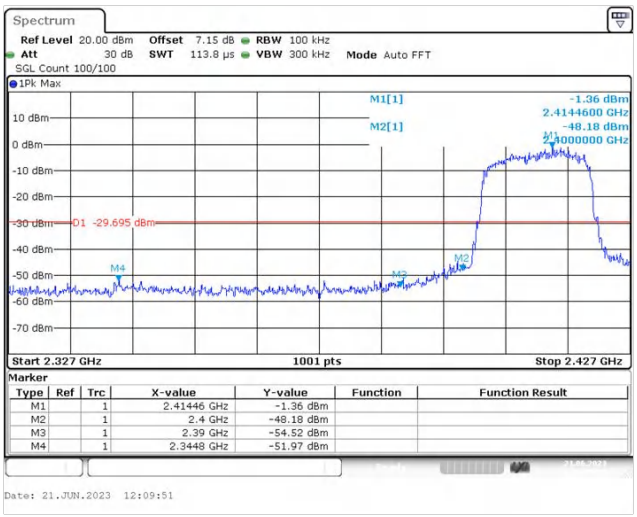


Lowest channel

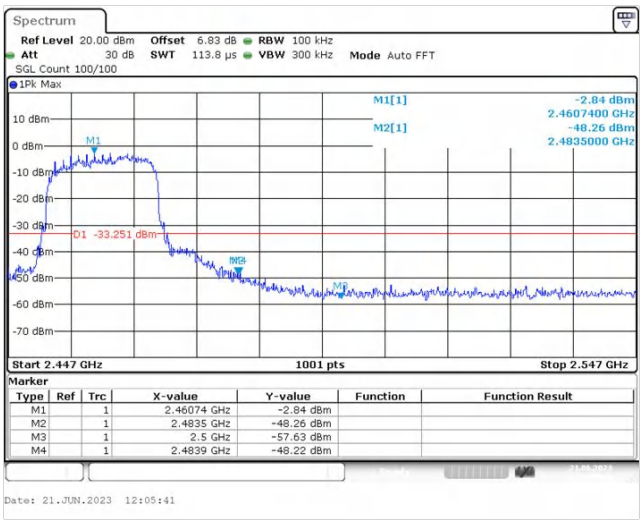


Highest channel

802.11g

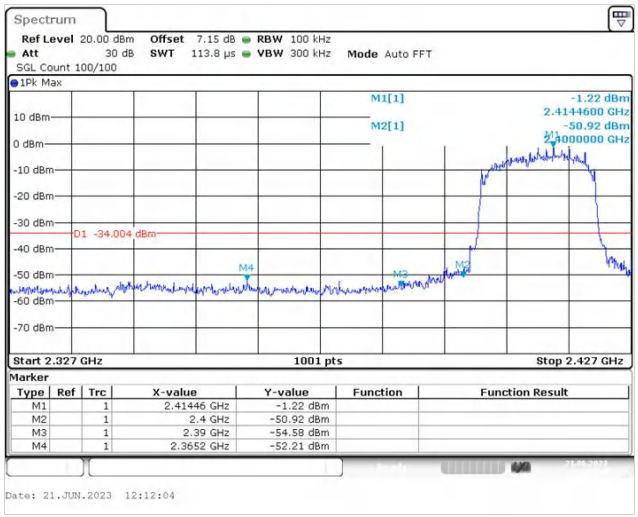


Lowest channel

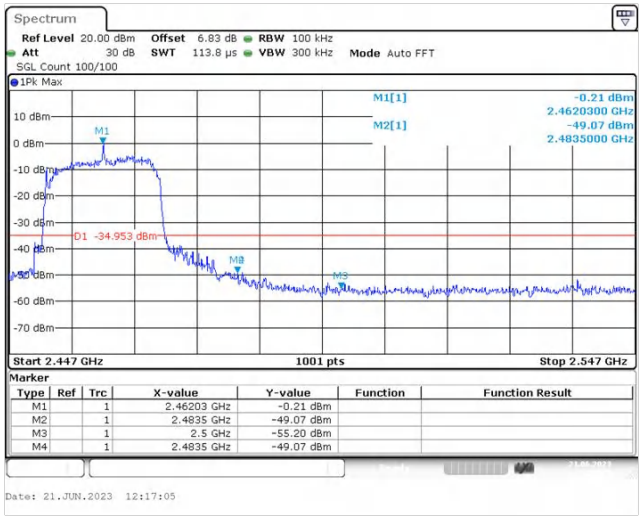


Highest channel

802.11n(H20)

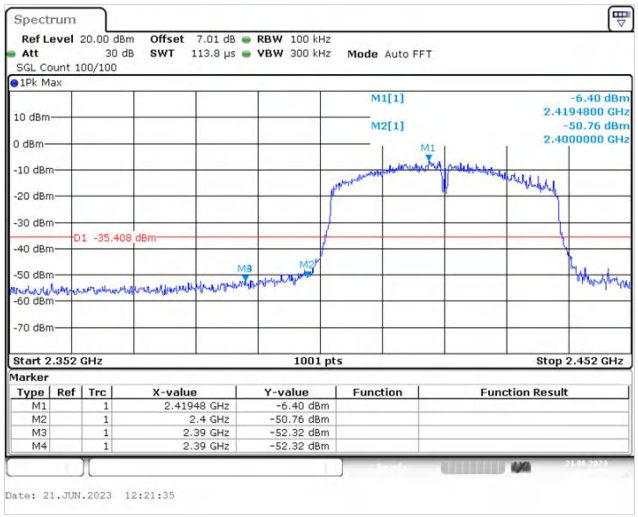


Lowest channel



Highest channel

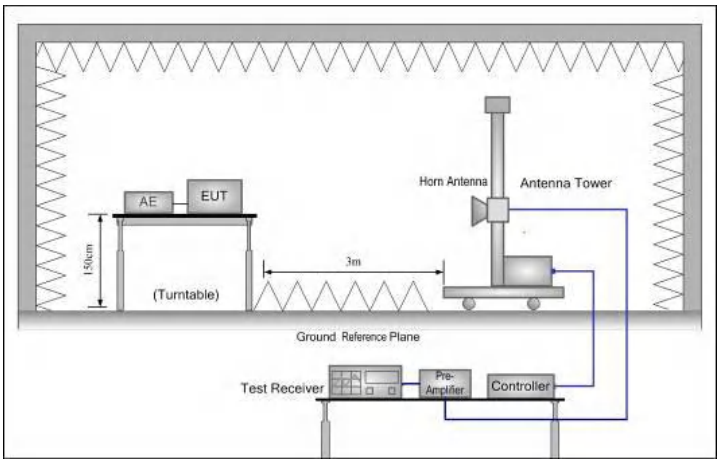
802.11n(H40)



Lowest channel

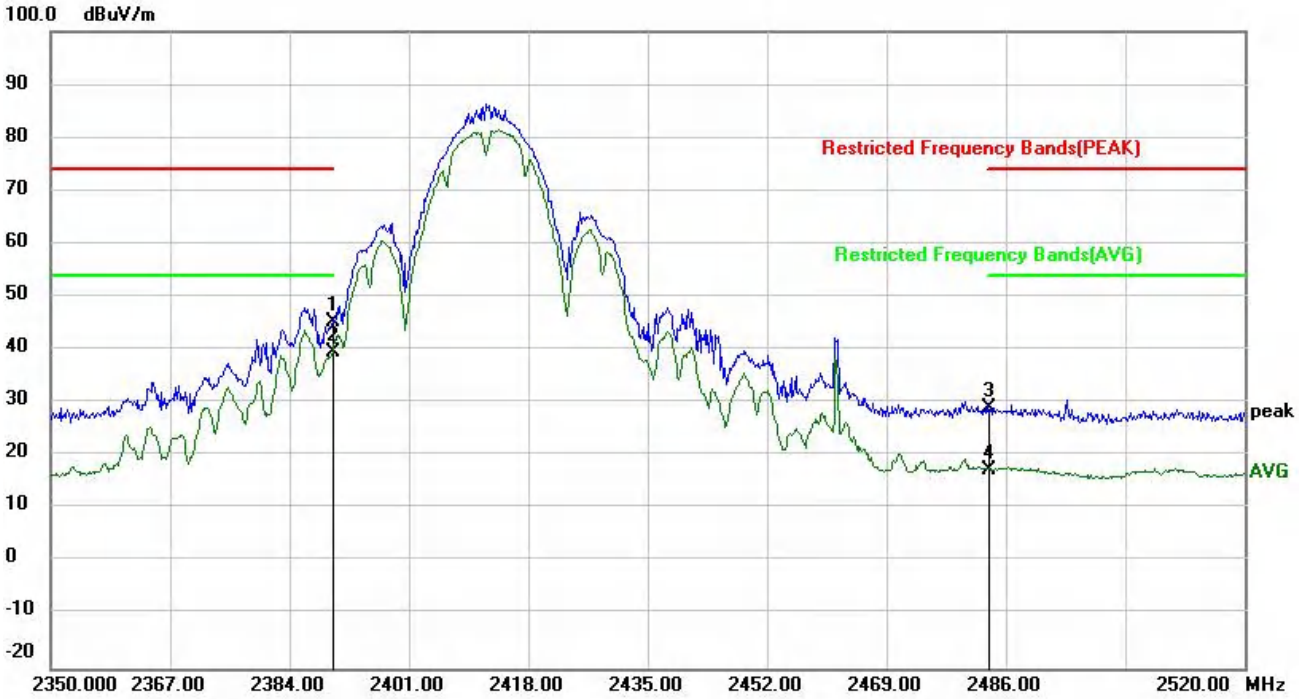
Highest channel

5.5.2 Radiated Emission Method

<table>
<tr><td>Test Requirement:</td><td colspan="5">FCC Part15 C Section 15.209 and 15.205</td></tr>
<tr><td>Test Frequency Range:</td><td colspan="5">2310 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz</td></tr>
<tr><td>Test Distance:</td><td colspan="5">3m</td></tr>
<tr><td rowspan="3">Receiver setup:</td><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Notes</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>RMS</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
<tr><td rowspan="3">Limit:</td><td colspan="2">Frequency</td><td colspan="2">Limit (dBuV/m @3m)</td><td>Notes</td></tr>
<tr><td colspan="2" rowspan="2">Above 1GHz</td><td colspan="2">54.00</td><td>Average Value</td></tr>
<tr><td colspan="2">74.00</td><td>Peak Value</td></tr>
<tr><td>Test Procedure:</td><td colspan="5">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.</td></tr>
<tr><td>Test setup:</td><td colspan="5"> 
</td></tr>
<tr><td>Test Instruments:</td><td colspan="5">Refer to section 4.9 for details</td></tr>
<tr><td>Test mode:</td><td colspan="5">Refer to section 4.3 for details</td></tr>
<tr><td>Test results:</td><td colspan="5">Pass</td></tr>
</table>

802.11b mode:

Product Model:	Wi-Fi and Bluetooth Module	**Product Model:**	CB2S
Test By:	Leo Zhang	**Test Mode:**	802.11b Tx mode
Test Channel:	Lowest channel	**Polarization:**	Vertical
Test Voltage:	DC3.3V	**Environment:**	Temp.: 24.8℃ Humi.: 57%

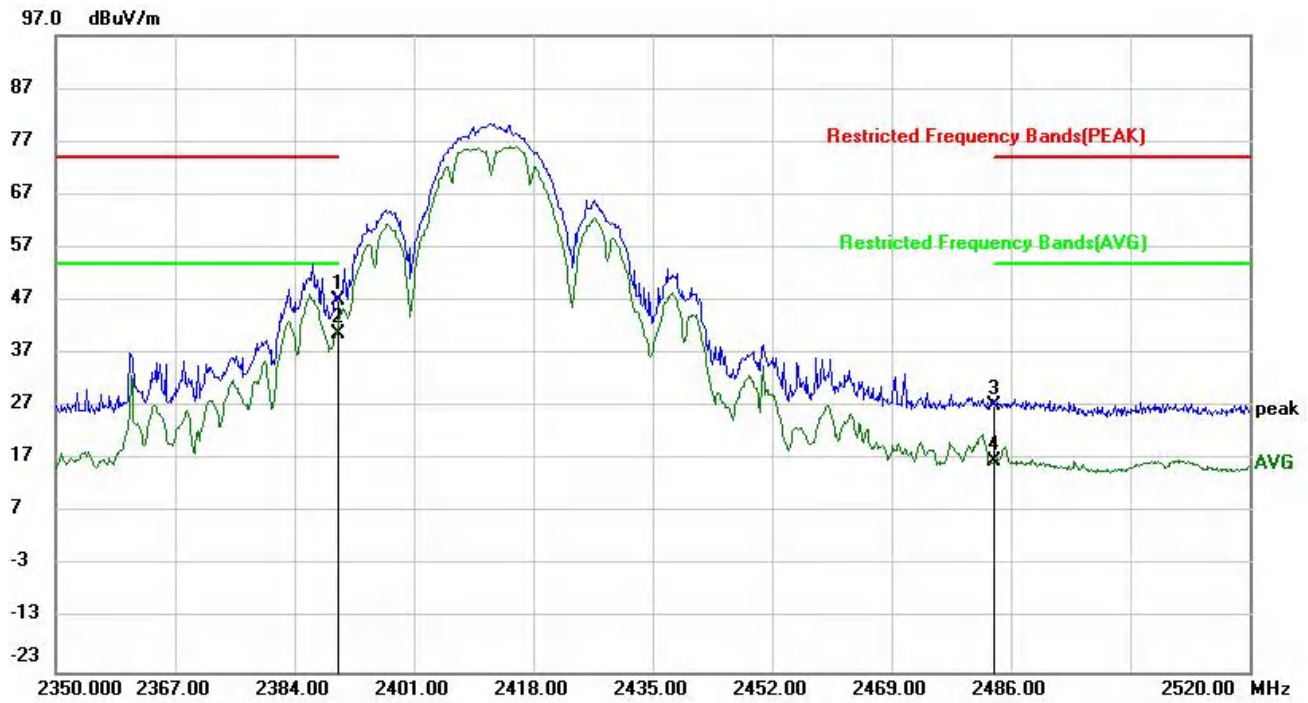


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	67.75	-22.62	45.13	74.00	-28.87	peak
2	*	2390.000	62.20	-22.62	39.58	54.00	-14.42	AVG
3		2483.500	51.40	-22.32	29.08	74.00	-44.92	peak
4		2483.500	39.80	-22.32	17.48	54.00	-36.52	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Model:	Wi-Fi and Bluetooth Module	Test Result:	CB2S
Test By:	Leo Zhang	Test Mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC3.3V	Environment:	Temp.: 24.8℃ Humi.: 57%

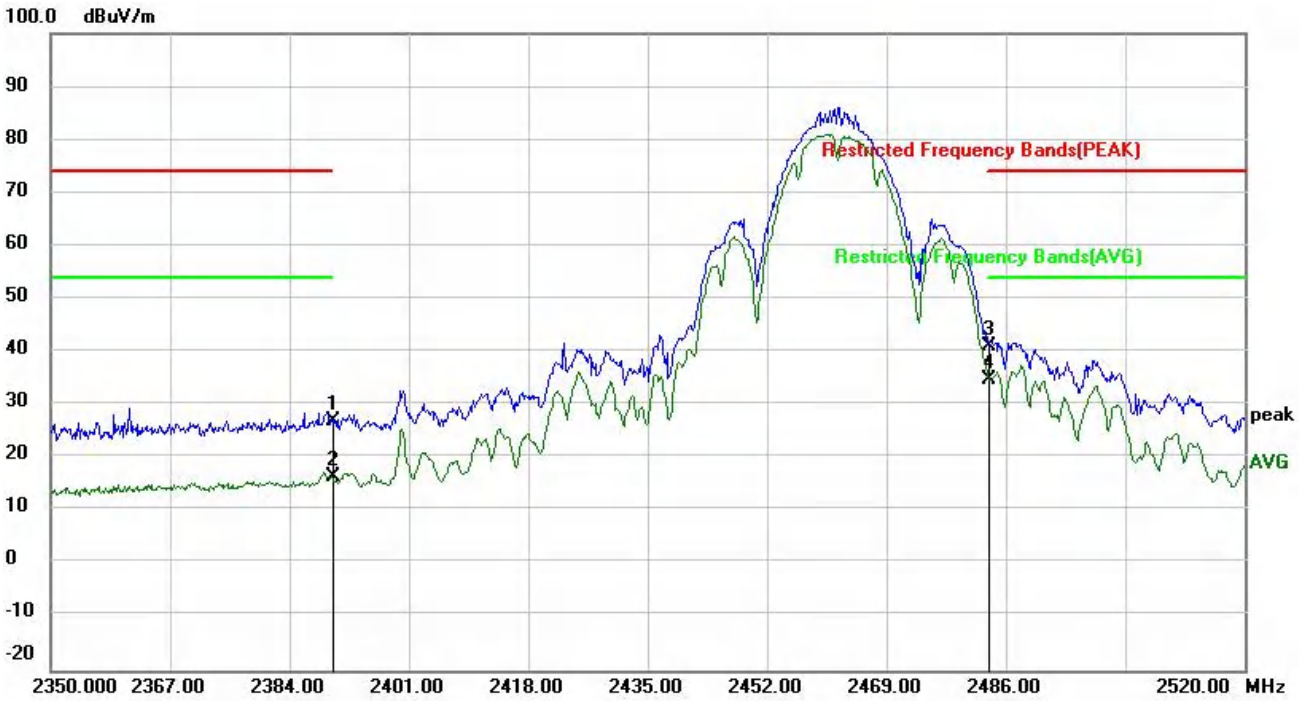


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	69.62	-22.62	47.00	74.00	-27.00	peak
2	*	2390.000	63.39	-22.62	40.77	54.00	-13.23	AVG
3		2483.500	49.45	-22.32	27.13	74.00	-46.87	peak
4		2483.500	38.96	-22.32	16.64	54.00	-37.36	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Model:	Wi-Fi and Bluetooth Module	Test Result:	CB2S
Test By:	Leo Zhang	Test Mode:	802.11bTx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC3.3V	Environment:	Temp.: 24.8℃ Humi.: 57%

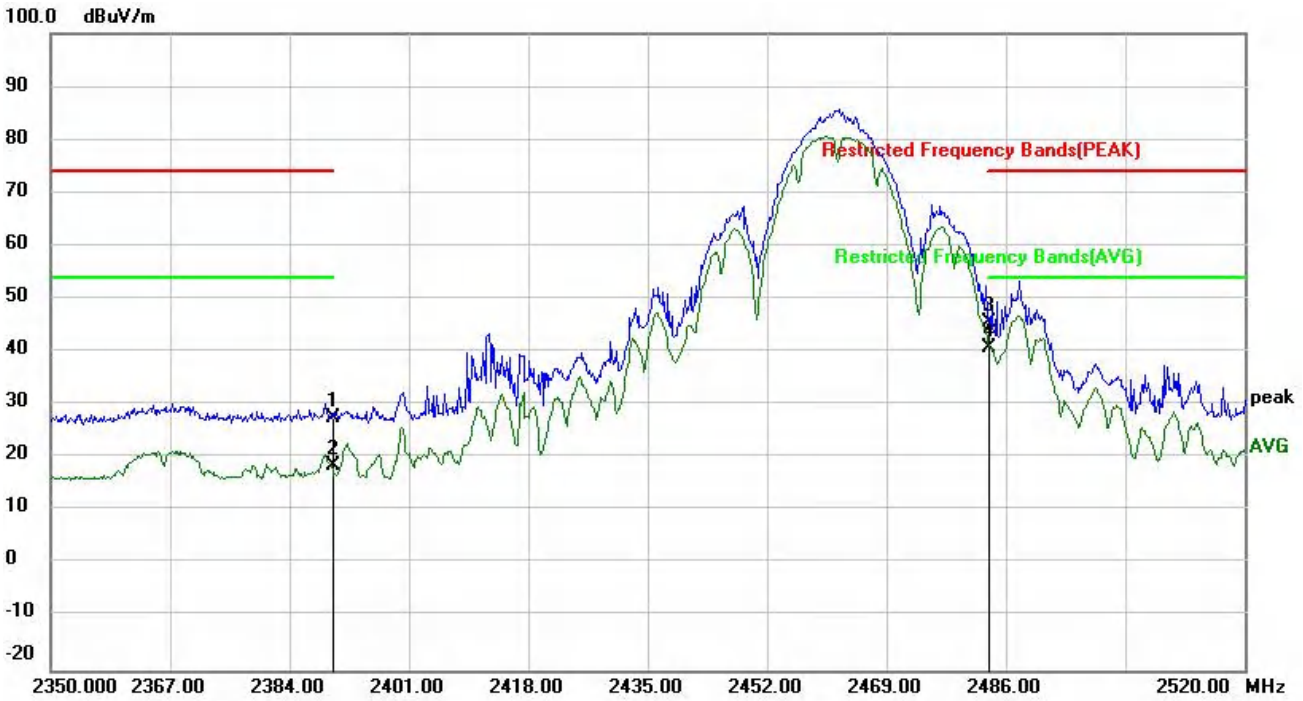


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	49.72	-22.62	27.10	74.00	-46.90	peak
2		2390.000	38.93	-22.62	16.31	54.00	-37.69	AVG
3		2483.500	63.44	-22.32	41.12	74.00	-32.88	peak
4	*	2483.500	57.11	-22.32	34.79	54.00	-19.21	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Model:	Wi-Fi and Bluetooth Module	Test Result:	CB2S
Test By:	Leo Zhang	Test Mode:	802.11bTx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC3.3V	Environment:	Temp.: 24.8℃ Humi.: 57%



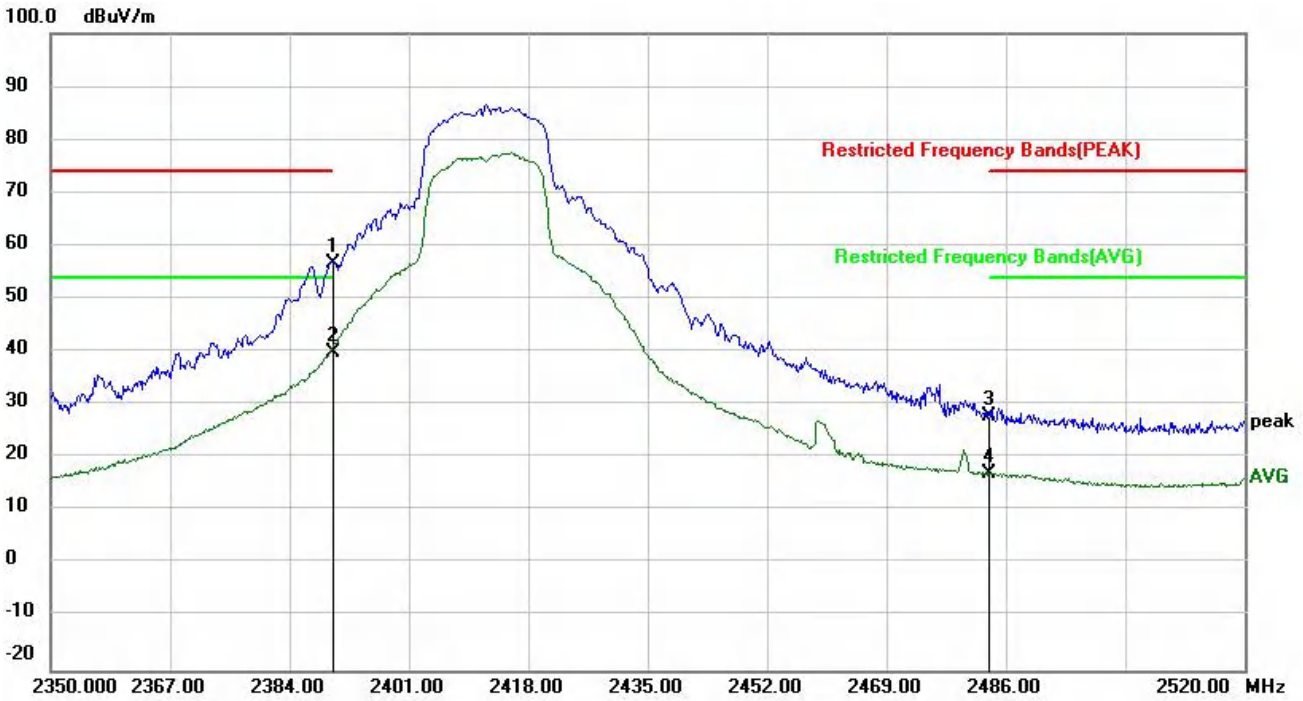
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	50.18	-22.62	27.56	74.00	-46.44	peak
2		2390.000	41.21	-22.62	18.59	54.00	-35.41	AVG
3		2483.500	67.76	-22.32	45.44	74.00	-28.56	peak
4	*	2483.500	62.96	-22.32	40.64	54.00	-13.36	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

802.11g mode:

Product Model:	Wi-Fi and Bluetooth Module	**Test Result:**	CB2S
Test By:	Leo Zhang	**Test Mode:**	802.11g Tx mode
Test Channel:	Lowest channel	**Polarization:**	Vertical
Test Voltage:	DC3.3V	**Environment:**	Temp.: 24.8℃ Humi.: 57%

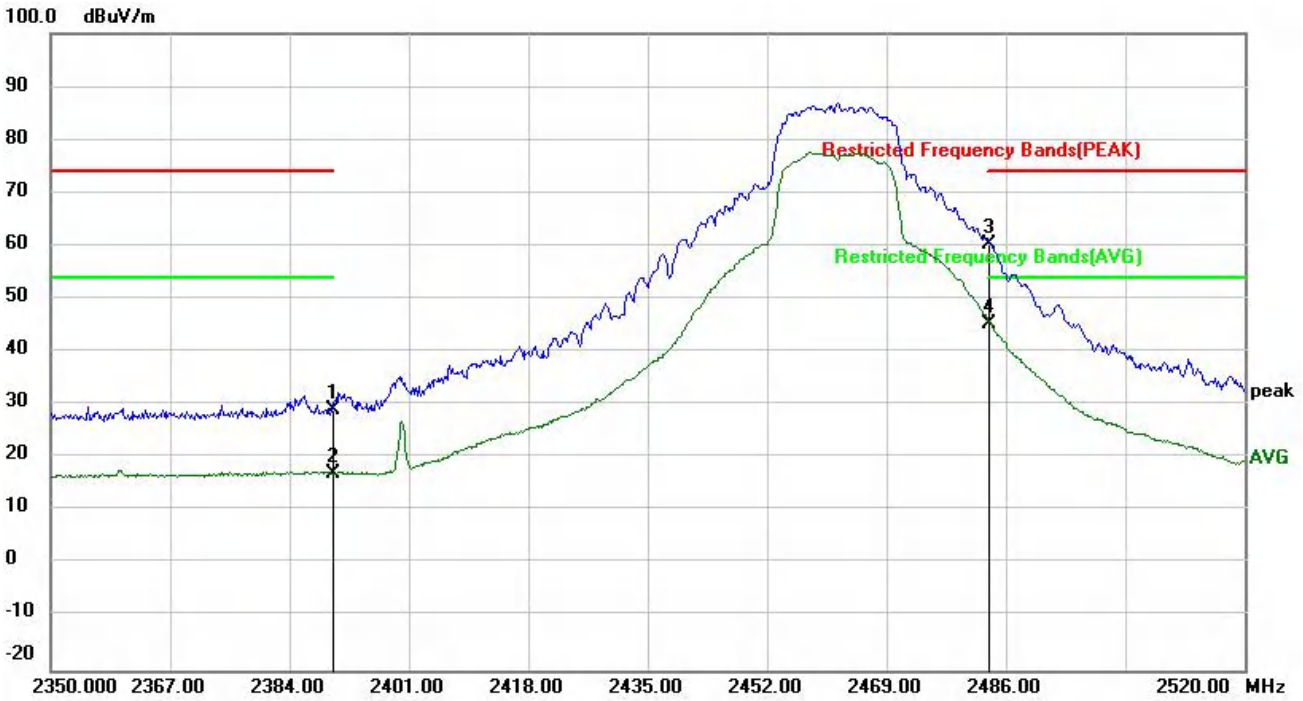


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	79.34	-22.62	56.72	74.00	-17.28	peak
2	*	2390.000	62.61	-22.62	39.99	54.00	-14.01	AVG
3		2483.500	50.19	-22.32	27.87	74.00	-46.13	peak
4		2483.500	39.43	-22.32	17.11	54.00	-36.89	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Model:	Wi-Fi and Bluetooth Module	Test Result:	CB2S
Test By:	Leo Zhang	Test Mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC3.3V	Environment:	Temp.: 24.8℃ Humi.: 57%

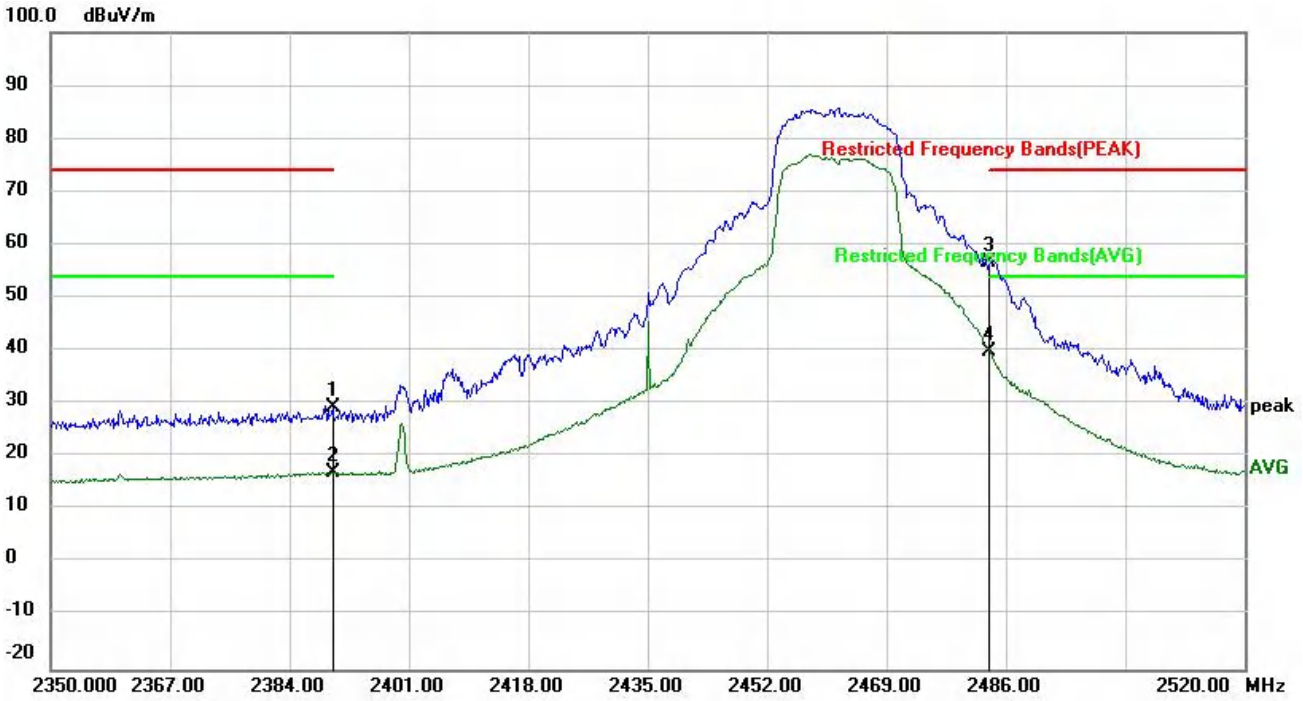


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	51.68	-22.62	29.06	74.00	-44.94	peak
2		2390.000	39.79	-22.62	17.17	54.00	-36.83	AVG
3		2483.500	82.56	-22.32	60.24	74.00	-13.76	peak
4	*	2483.500	67.44	-22.32	45.12	54.00	-8.88	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Model:	Wi-Fi and Bluetooth Module	Test Result:	CB2S
Test By:	Leo Zhang	Test Mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC3.3V	Environment:	Temp.: 24.8℃ Humi.: 57%

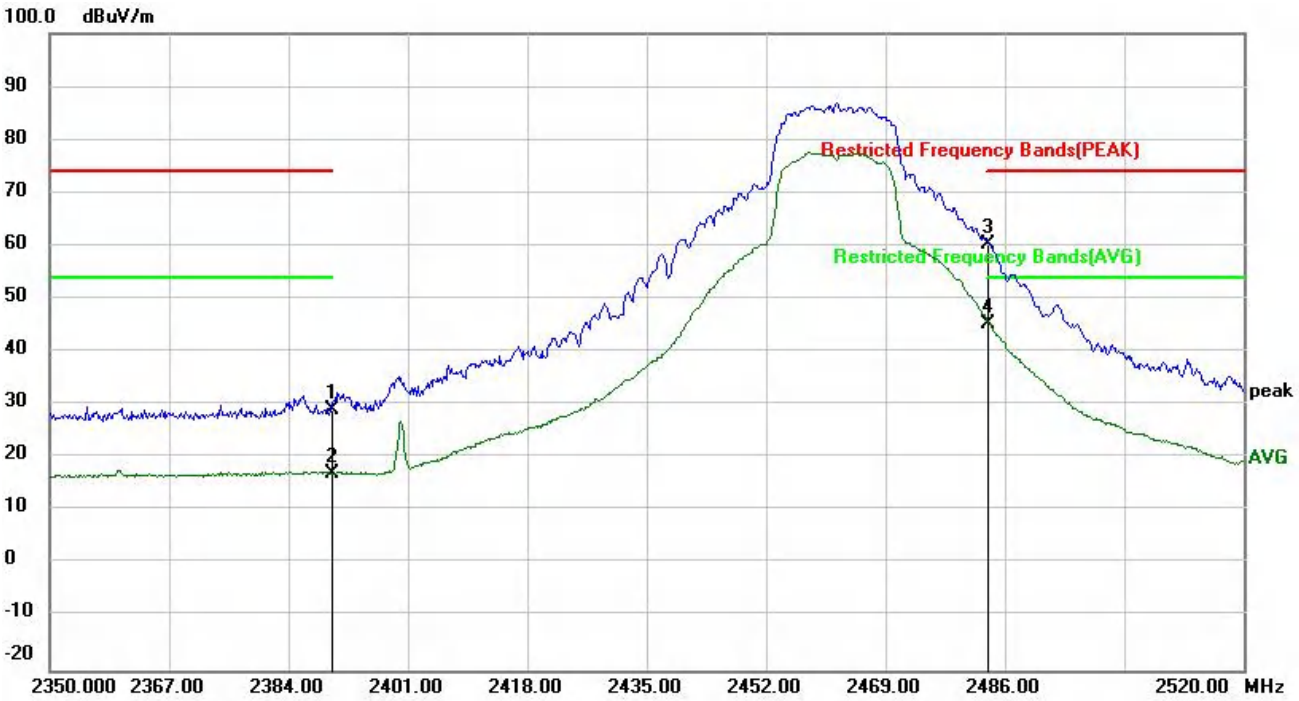


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	51.98	-22.62	29.36	74.00	-44.64	peak
2		2390.000	39.59	-22.62	16.97	54.00	-37.03	AVG
3		2483.500	78.99	-22.32	56.67	74.00	-17.33	peak
4	*	2483.500	62.12	-22.32	39.80	54.00	-14.20	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Model:	Wi-Fi and Bluetooth Module	Test Result:	CB2S
Test By:	Leo Zhang	Test Mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC3.3V	Environment:	Temp.: 24.8℃ Humi.: 57%



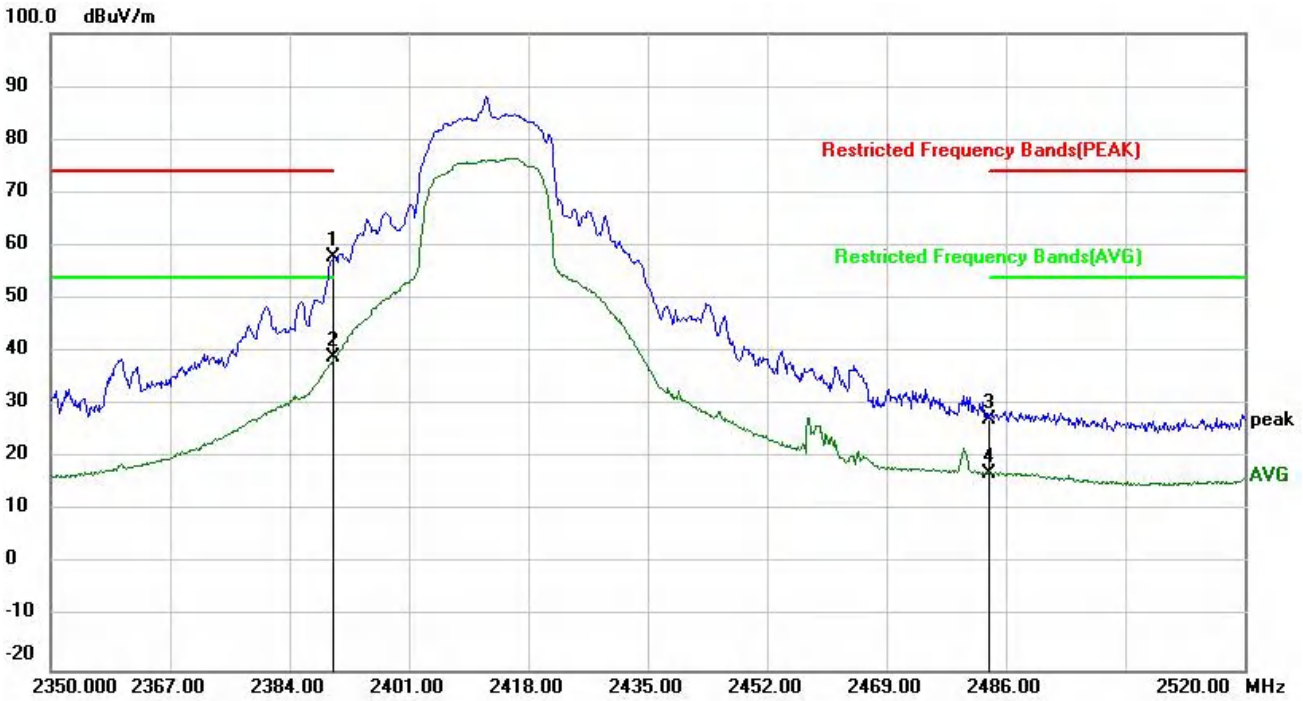
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	51.68	-22.62	29.06	74.00	-44.94	peak
2		2390.000	39.79	-22.62	17.17	54.00	-36.83	AVG
3		2483.500	82.56	-22.32	60.24	74.00	-13.76	peak
4	*	2483.500	67.44	-22.32	45.12	54.00	-8.88	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

802.11n(HT20):

Product Model:	Wi-Fi and Bluetooth Module	**Test Result:**	CB2S
Test By:	Leo Zhang	**Test Mode:**	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	**Polarization:**	Vertical
Test Voltage:	DC3.3V	**Environment:**	Temp.: 24.8℃ Humi.: 57%

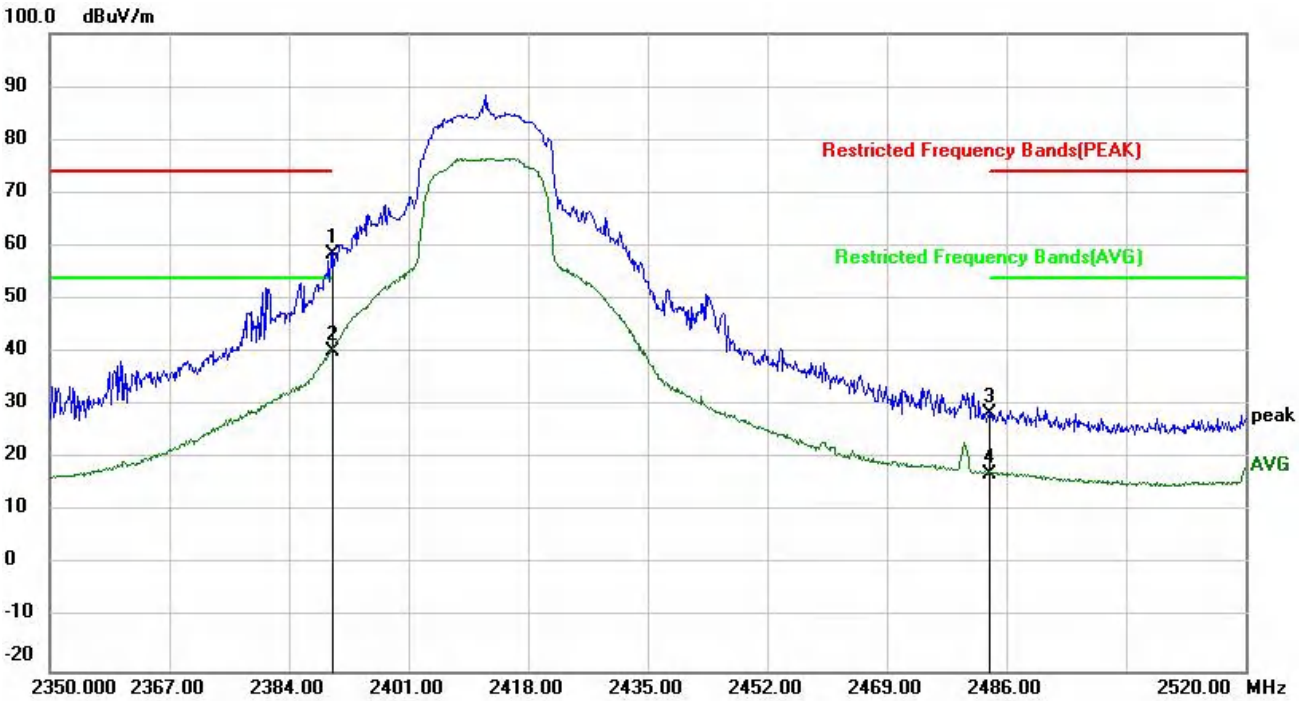


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	80.39	-22.62	57.77	74.00	-16.23	peak
2	*	2390.000	61.51	-22.62	38.89	54.00	-15.11	AVG
3		2483.500	49.69	-22.32	27.37	74.00	-46.63	peak
4		2483.500	39.49	-22.32	17.17	54.00	-36.83	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Model:	Wi-Fi and Bluetooth Module	Test Result:	CB2S
Test By:	Leo Zhang	Test Mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC3.3V	Environment:	Temp.: 24.8℃ Humi.: 57%

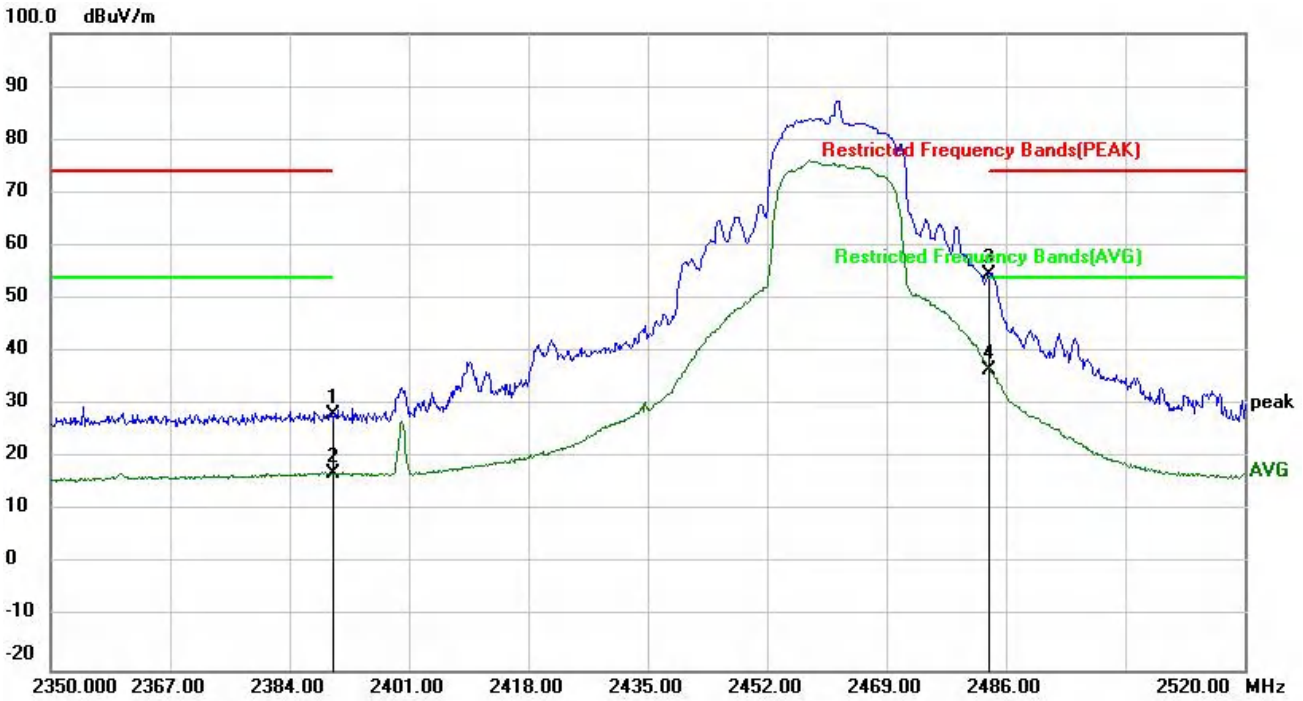


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	81.01	-22.62	58.39	74.00	-15.61	peak
2	*	2390.000	62.74	-22.62	40.12	54.00	-13.88	AVG
3		2483.500	50.64	-22.32	28.32	74.00	-45.68	peak
4		2483.500	39.49	-22.32	17.17	54.00	-36.83	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Model:	Wi-Fi and Bluetooth Module	Test Result:	CB2S
Test By:	Leo Zhang	Test Mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC3.3V	Environment:	Temp.: 24.8℃ Humi.: 57%

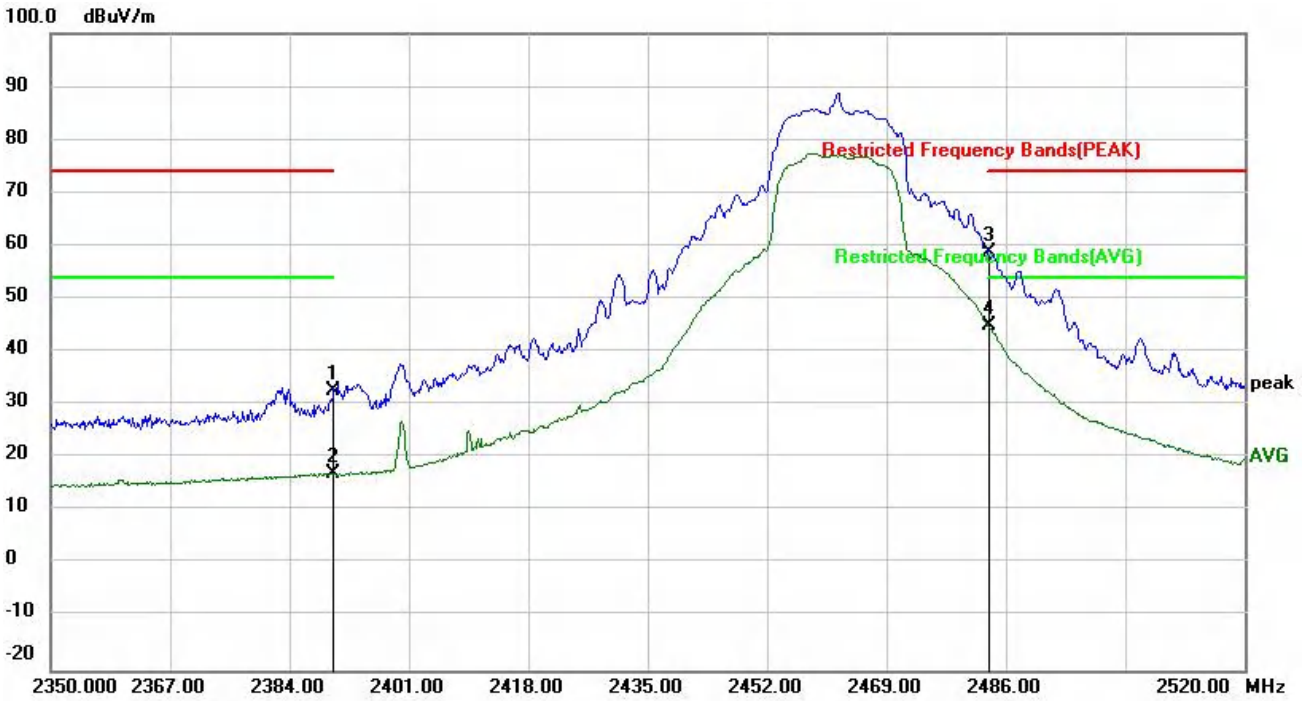


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	50.75	-22.62	28.13	74.00	-45.87	peak
2		2390.000	39.60	-22.62	16.98	54.00	-37.02	AVG
3		2483.500	76.96	-22.32	54.64	74.00	-19.36	peak
4	*	2483.500	58.90	-22.32	36.58	54.00	-17.42	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Model:	Wi-Fi and Bluetooth Module	Test Result:	CB2S
Test By:	Leo Zhang	Test Mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC3.3V	Environment:	Temp.: 24.8℃ Humi.: 57%



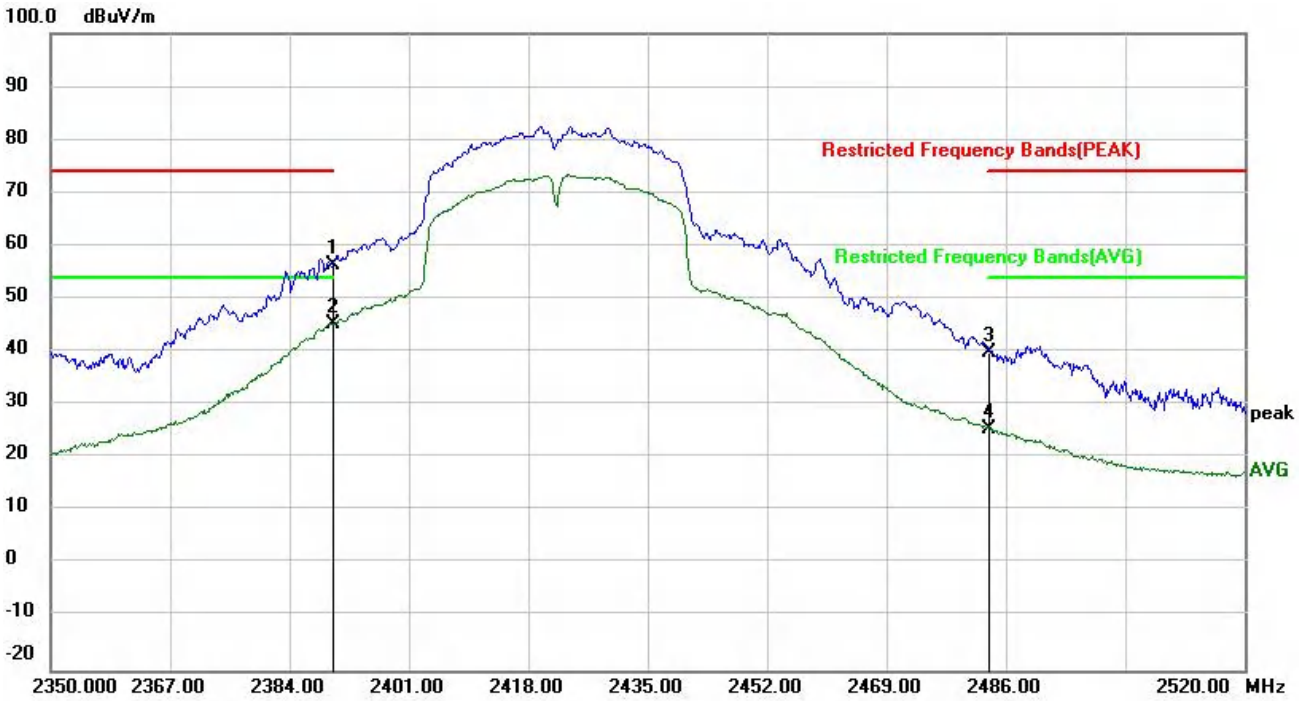
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	55.30	-22.62	32.68	74.00	-41.32	peak
2		2390.000	39.63	-22.62	17.01	54.00	-36.99	AVG
3		2483.500	81.12	-22.32	58.80	74.00	-15.20	peak
4	*	2483.500	67.32	-22.32	45.00	54.00	-9.00	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

802.11n(HT40):

Product Model:	Wi-Fi and Bluetooth Module	**Test Result:**	CB2S
Test By:	Leo Zhang	**Test Mode:**	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	**Polarization:**	Vertical
Test Voltage:	DC3.3V	**Environment:**	Temp.: 24.8℃ Humi.: 57%

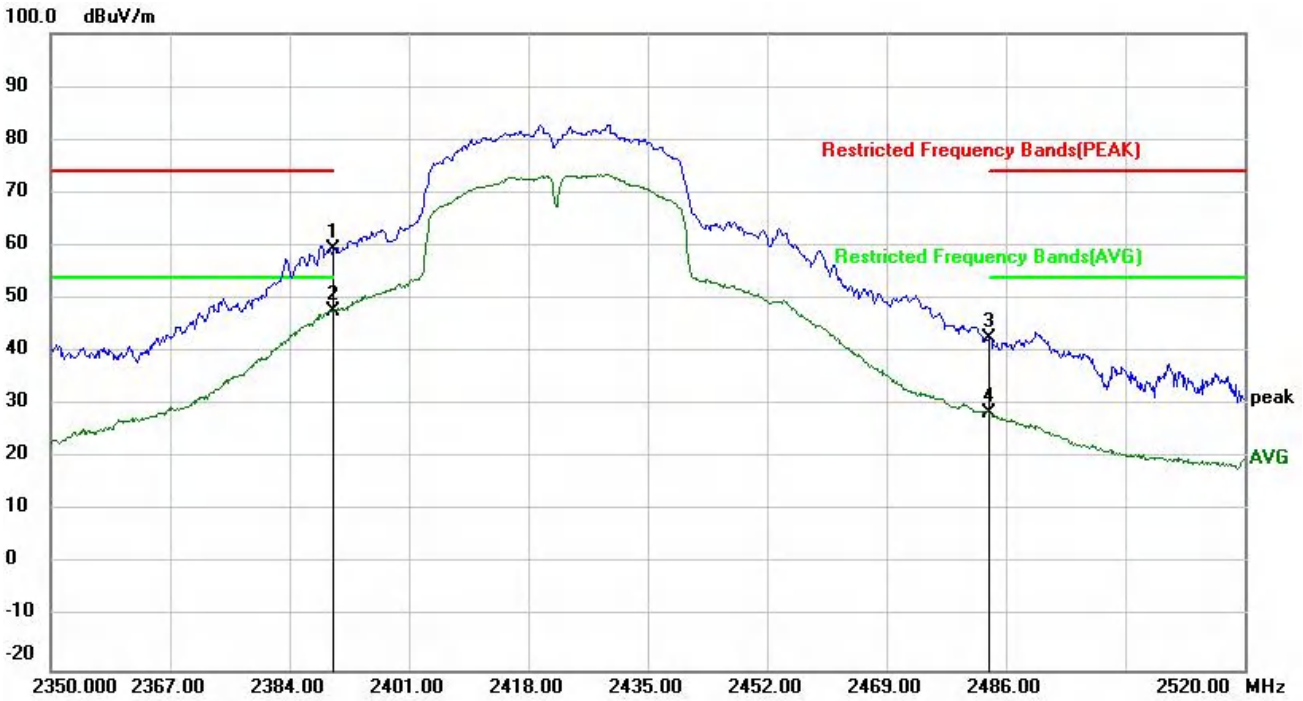


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	79.05	-22.62	56.43	74.00	-17.57	peak
2	*	2390.000	67.72	-22.62	45.10	54.00	-8.90	AVG
3		2483.500	62.24	-22.32	39.92	74.00	-34.08	peak
4		2483.500	47.76	-22.32	25.44	54.00	-28.56	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Model:	Wi-Fi and Bluetooth Module	Test Result:	CB2S
Test By:	Leo Zhang	Test Mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC3.3V	Environment:	Temp.: 24.8℃ Humi.: 57%

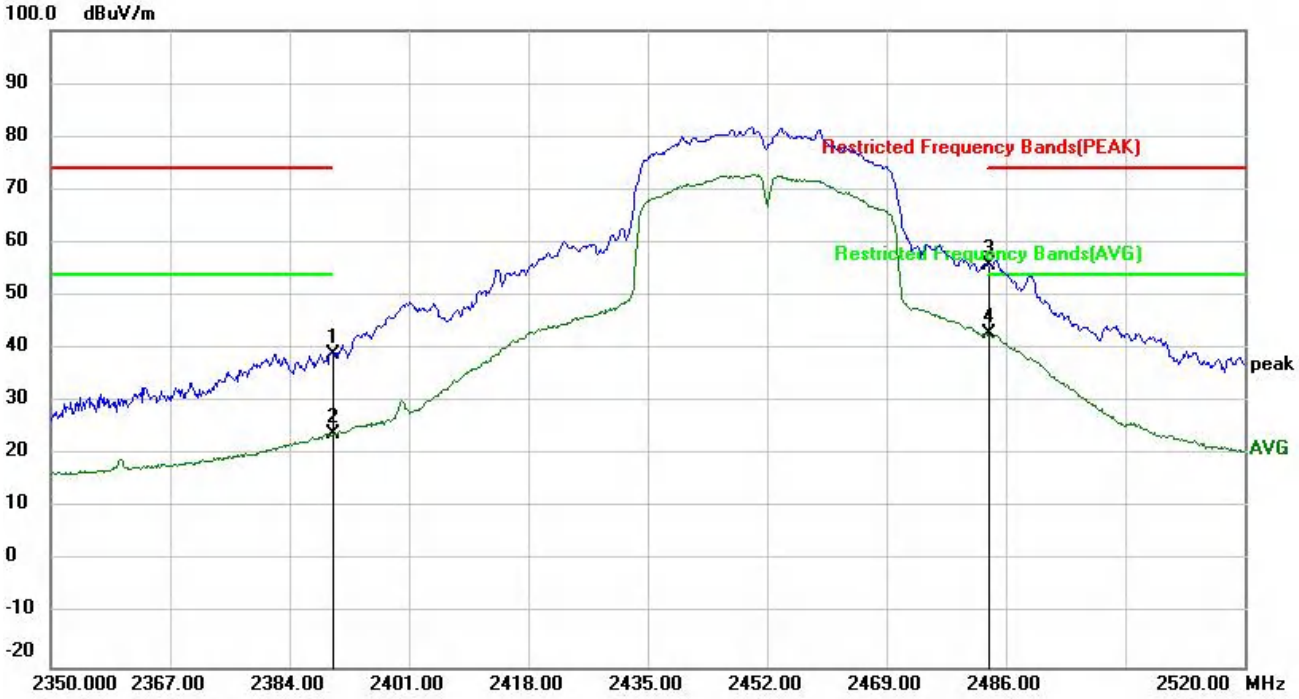


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	81.94	-22.62	59.32	74.00	-14.68	peak
2	*	2390.000	70.32	-22.62	47.70	54.00	-6.30	AVG
3		2483.500	64.82	-22.32	42.50	74.00	-31.50	peak
4		2483.500	50.69	-22.32	28.37	54.00	-25.63	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Model:	Wi-Fi and Bluetooth Module	Test Result:	CB2S
Test By:	Leo Zhang	Test Mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC3.3V	Environment:	Temp.: 24.8℃ Humi.: 57%

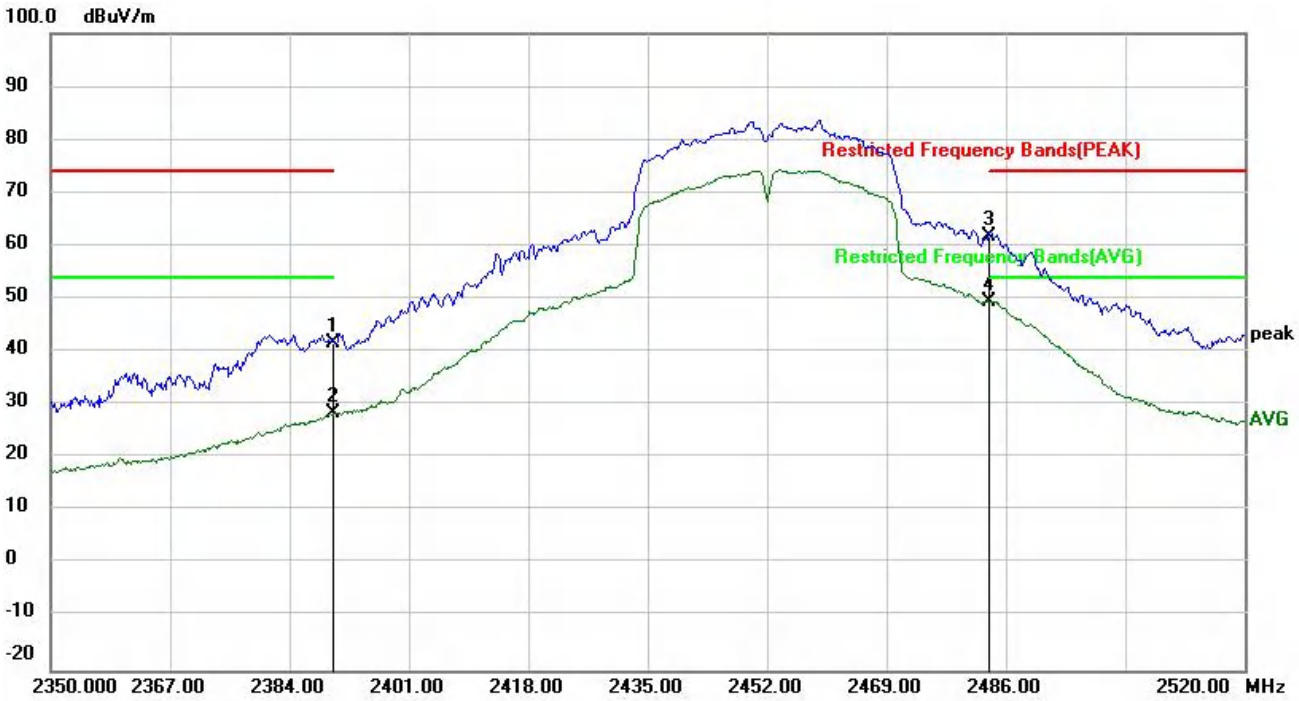


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	61.70	-22.62	39.08	74.00	-34.92	peak
2		2390.000	46.49	-22.62	23.87	54.00	-30.13	AVG
3		2483.500	78.20	-22.32	55.88	74.00	-18.12	peak
4	*	2483.500	65.07	-22.32	42.75	54.00	-11.25	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Model:	Wi-Fi and Bluetooth Module	Test Result:	CB2S
Test By:	Leo Zhang	Test Mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC3.3V	Environment:	Temp: 24℃ Huni: 57%



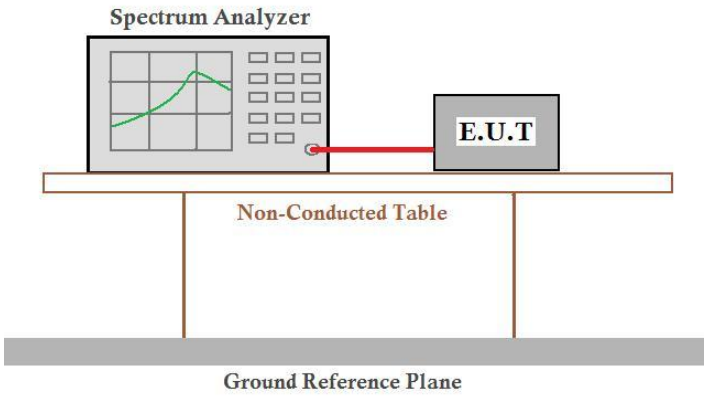
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2390.000	64.33	-22.62	41.71	74.00	-32.29	peak
2		2390.000	50.97	-22.62	28.35	54.00	-25.65	AVG
3		2483.500	84.14	-22.32	61.82	74.00	-12.18	peak
4	*	2483.500	71.70	-22.32	49.38	54.00	-4.62	AVG

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

5.6 Spurious Emission

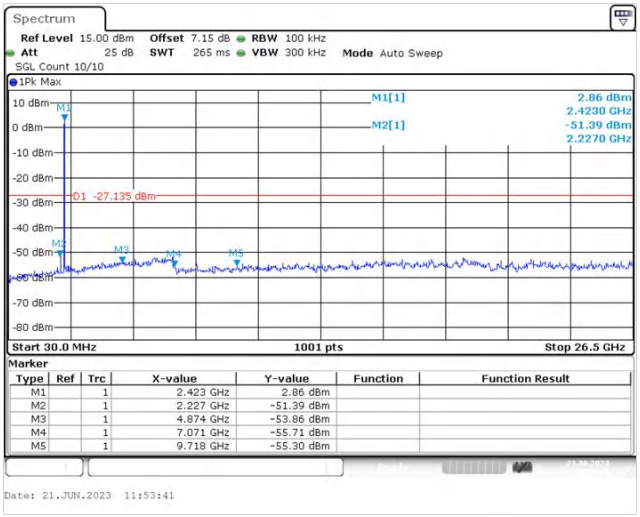
5.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	
Test Instruments:	Refer to section 4.9 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass

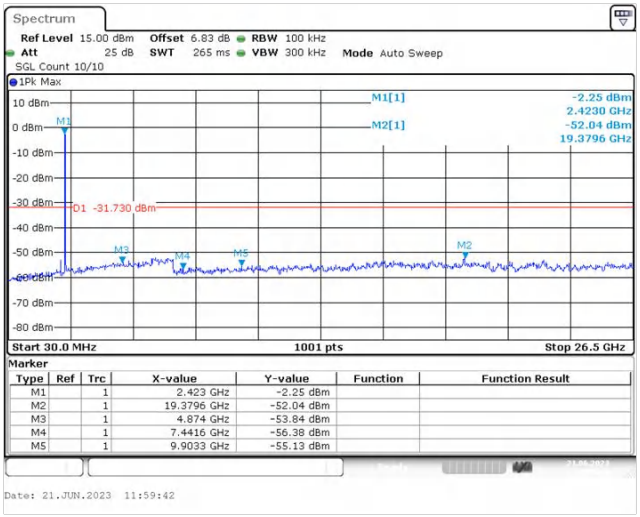
Test plot as follows:

Test mode: 802.11b

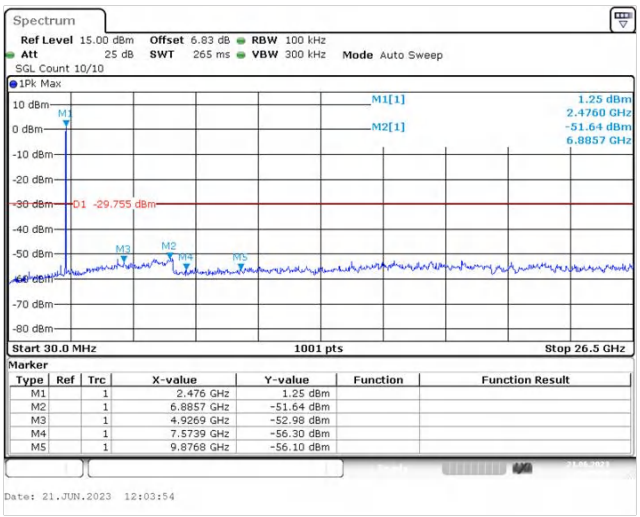
Lowest channel



Middle channel

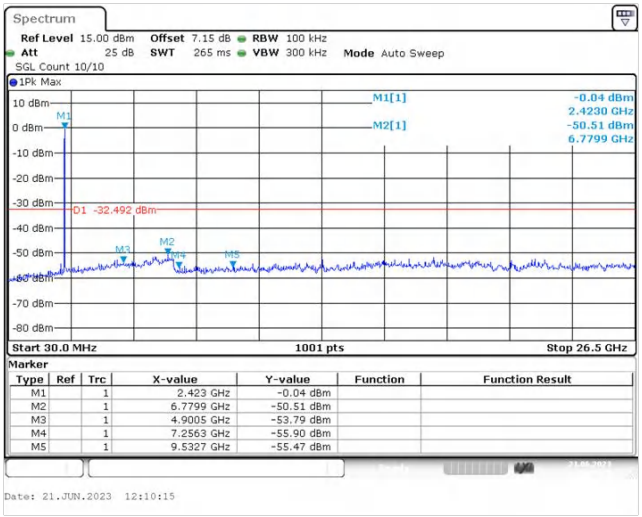


Highest channel

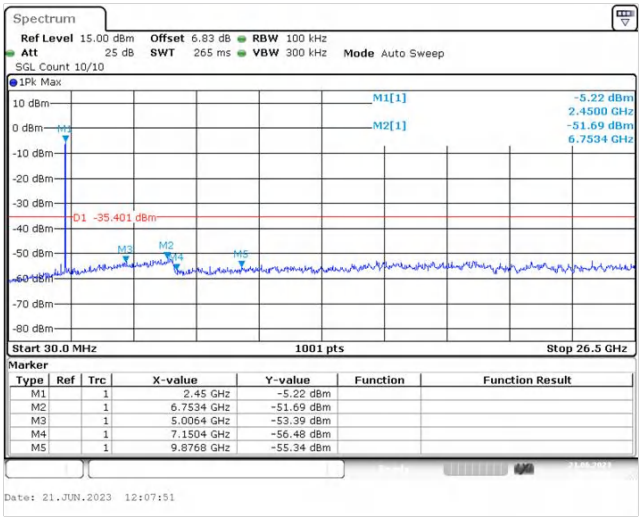


Test mode: 802.11g

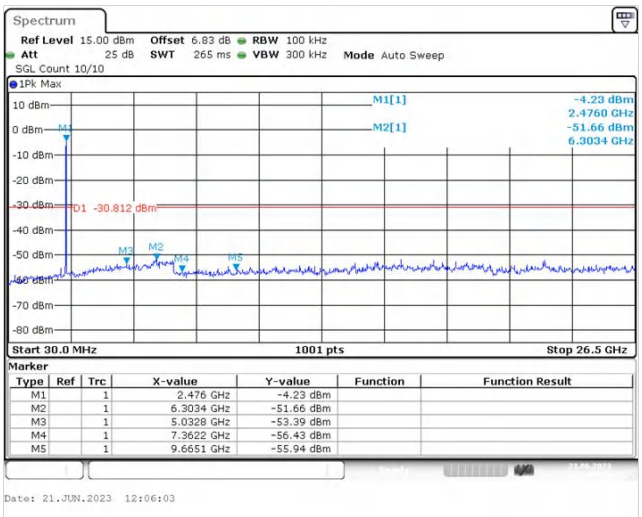
Lowest channel



Middle channel

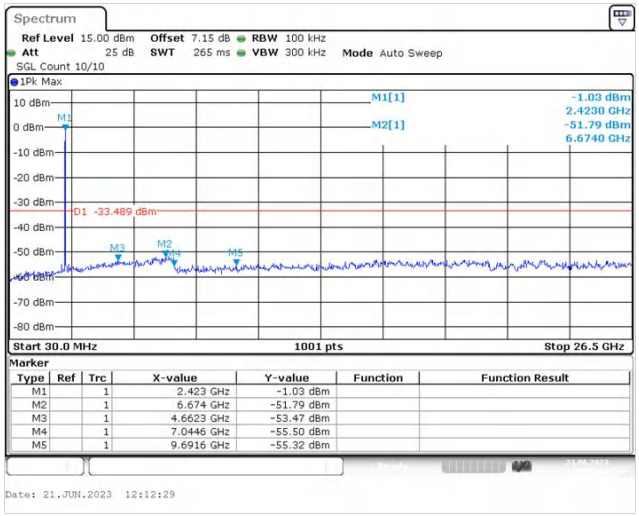


Highest channel

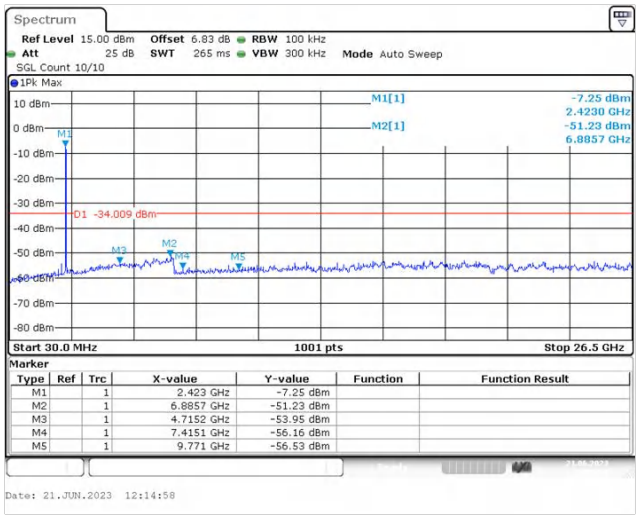


Test mode: 802.11n(H20)

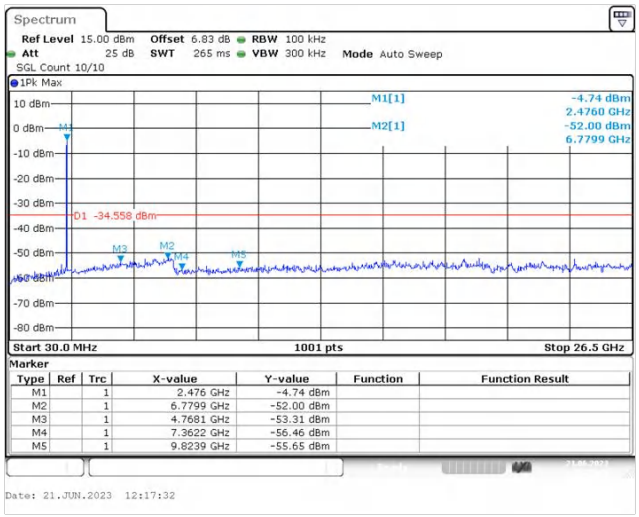
Lowest channel



Middle channel

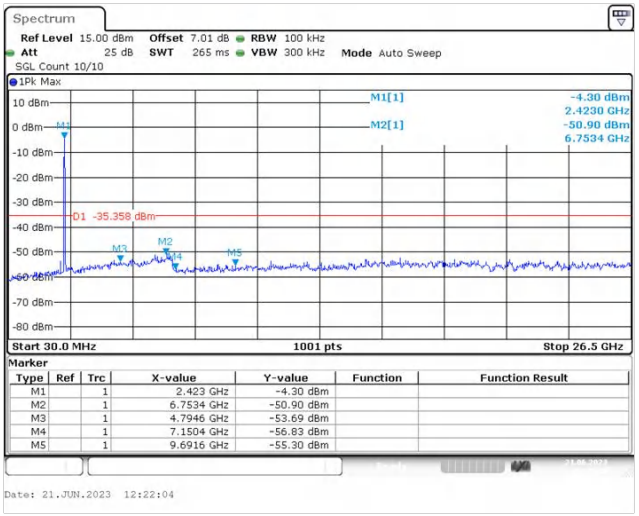


Highest channel

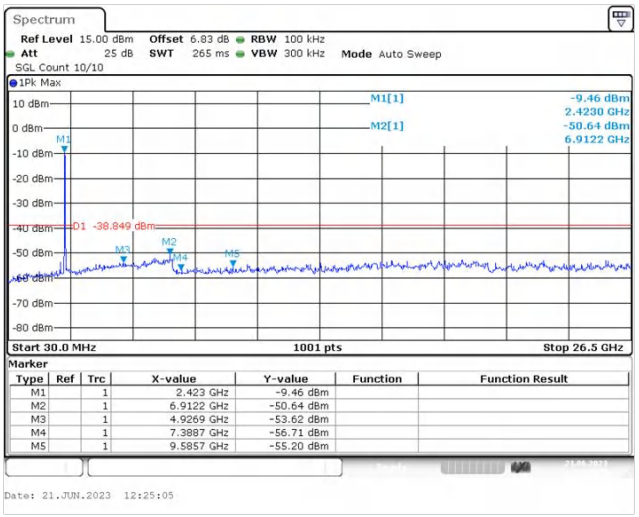


Test mode: 802.11n(H40)

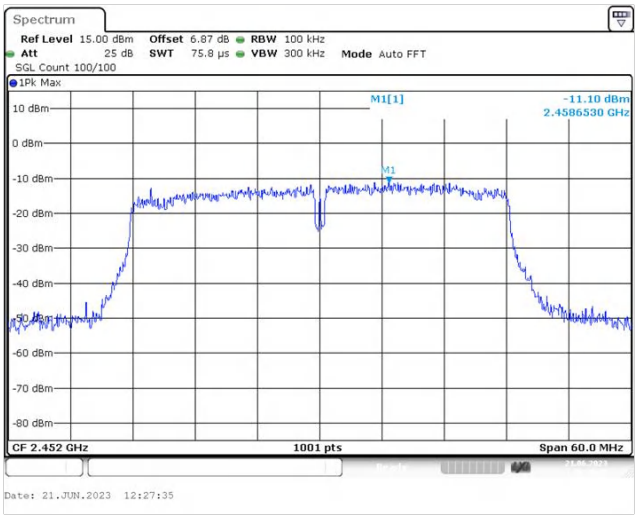
Lowest channel



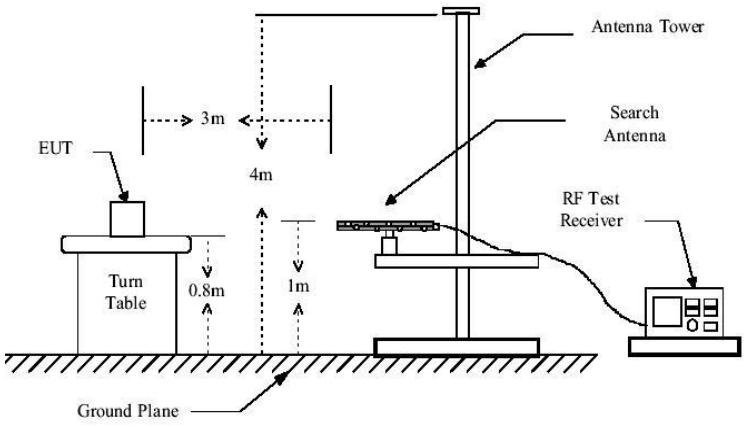
Middle channel



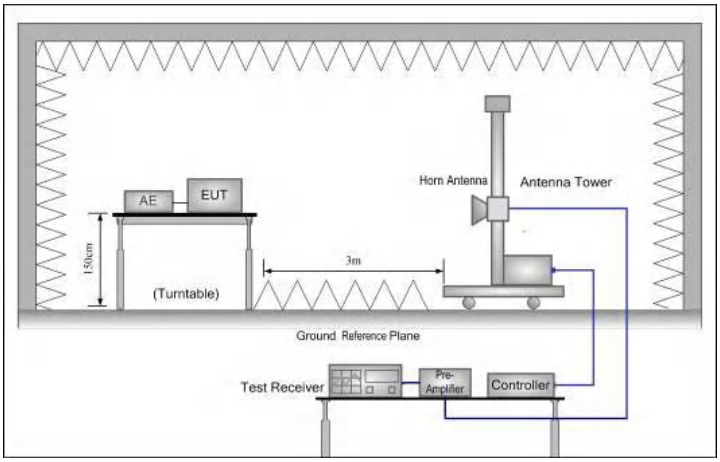
Highest channel



5.6.2 Radiated Emission Method

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209 and 15.205</td></tr>
<tr><td>Test Frequency Range:</td><td>9kHz to 25GHz</td></tr>
<tr><td>Test Distance:</td><td>3m</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Notes</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>RMS</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Notes</td></tr>
<tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr>
<tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr>
<tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr>
<tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr>
<tr><td>74.0</td><td>Peak Value</td></tr>
</table>
</td></tr>
<tr><td>Test Procedure:</td><td>1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber. 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.</td></tr>
<tr><td>Test setup:</td><td>Below 1GHz
 

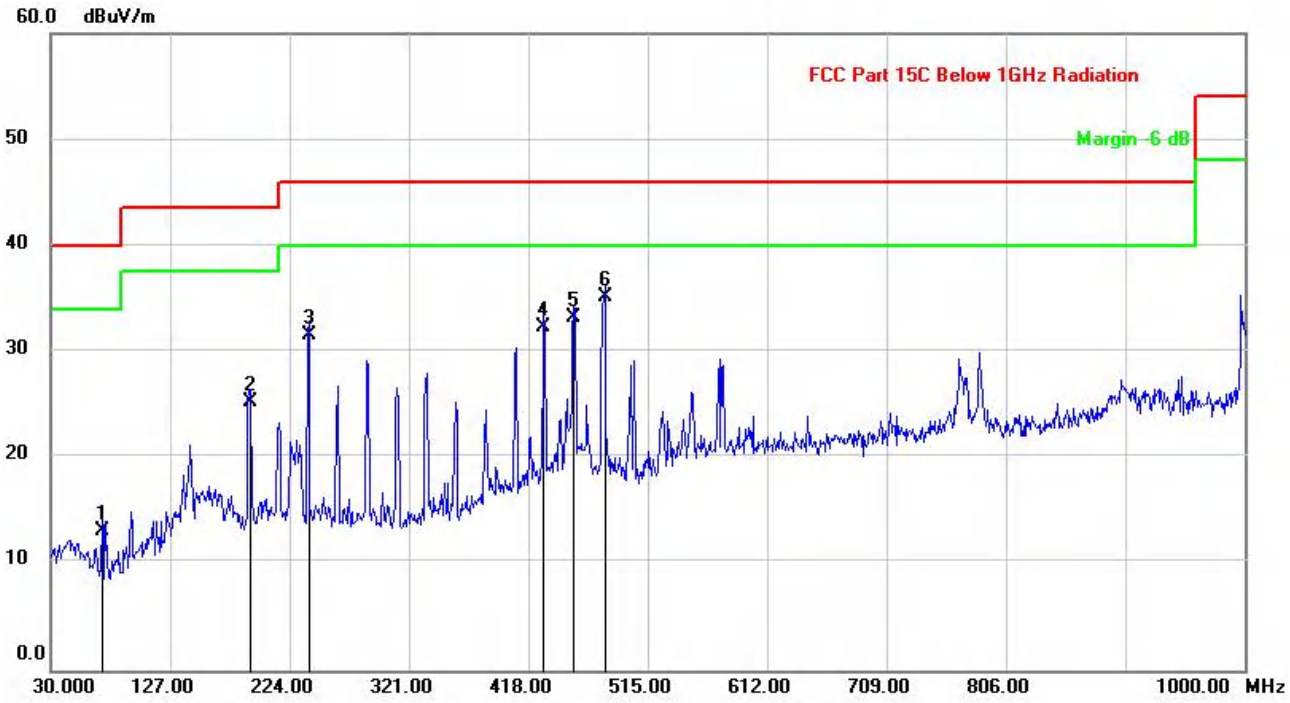
Above 1GHz</td></tr>
</table>

	
Test Instruments:	Refer to section 4.9 for details
Test mode:	Refer to section 4.3 for details
Test results:	Pass
Notes:	1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.

Measurement Data(worst case):

Below 1GHz:

Product Model:	Wi-Fi and Bluetooth Module	**Test Result:**	PASS
Test By:	Leo Zhang	**Test Mode:**	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	**Polarization:**	Vertical
Test Voltage:	DC3.3V	**Environment:**	Temp.: 23.8℃ Humi.: 58%

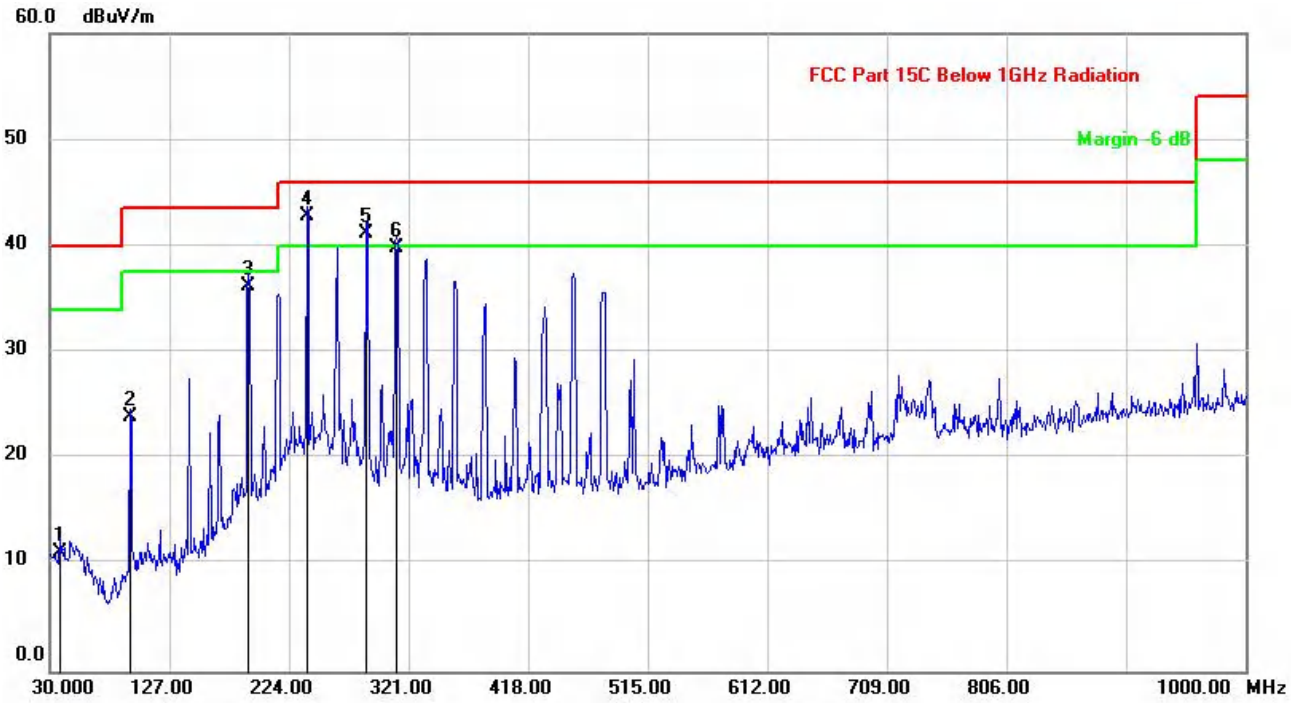


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		71.7100	30.15	-16.95	13.20	40.00	-26.80	QP
2		191.9900	39.28	-13.98	25.30	43.50	-18.20	QP
3		239.5200	43.15	-11.55	31.60	46.00	-14.40	QP
4		430.6100	39.95	-7.55	32.40	46.00	-13.60	QP
5		454.8600	40.56	-7.26	33.30	46.00	-12.70	QP
6	*	480.0800	42.12	-7.02	35.10	46.00	-10.90	QP

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Product Model:	Wi-Fi and Bluetooth Module	Test Result:	PASS
Test By:	Leo Zhang	Test Mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	DC3.3V	Environment:	Temp.: 24.2℃ Humi.: 56%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		37.7599	24.44	-13.24	11.20	40.00	-28.80	QP
2		94.9900	38.81	-14.91	23.90	43.50	-19.60	QP
3		191.0200	50.33	-14.03	36.30	43.50	-7.20	QP
4	*	238.5500	54.50	-11.60	42.90	46.00	-3.10	QP
5	!	287.0500	51.92	-10.72	41.20	46.00	-4.80	QP
6		311.3000	50.21	-10.41	39.80	46.00	-6.20	QP

Notes:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Above 1GHz

802.11b						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	80.08	-15.62	64.46	74.00	-9.54	Vertical
4824.00	73.43	-15.62	57.81	74.00	-16.19	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	65.54	-15.62	49.92	54.00	-4.08	Vertical
4824.00	57.89	-15.62	42.27	54.00	-11.73	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	72.68	-15.45	57.23	74.00	-16.77	Vertical
4874.00	68.41	-15.45	52.96	74.00	-21.04	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	55.49	-15.45	40.04	54.00	-13.96	Vertical
4874.00	51.28	-15.45	35.83	54.00	-18.17	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	74.44	-15.26	59.18	74.00	-14.82	Vertical
4924.00	80.16	-15.26	64.90	74.00	-9.10	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	57.74	-15.26	42.48	54.00	-11.52	Vertical
4924.00	64.04	-15.26	48.78	54.00	-5.22	Horizontal

Notes:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

802.11g						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	72.14	-15.62	56.52	74.00	-17.48	Vertical
4824.00	74.07	-15.62	58.45	74.00	-15.55	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	58.64	-15.62	43.02	54.00	-10.98	Vertical
4824.00	62.61	-15.62	46.99	54.00	-7.01	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	61.91	-15.45	46.46	74.00	-27.54	Vertical
4874.00	69.13	-15.45	53.68	74.00	-20.32	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	50.00	-15.45	34.55	54.00	-19.45	Vertical
4874.00	55.42	-15.45	39.97	54.00	-14.03	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	65.20	-15.26	49.94	74.00	-24.06	Vertical
4924.00	78.07	-15.26	62.81	74.00	-11.19	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	50.84	-15.26	35.58	54.00	-18.42	Vertical
4924.00	64.96	-15.26	49.70	54.00	-4.30	Horizontal

Notes:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

802.11n(HT20)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	75.58	-15.62	59.96	74.00	-14.04	Vertical
4824.00	75.60	-15.62	59.98	74.00	-14.02	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	58.90	-15.62	43.28	54.00	-10.72	Vertical
4824.00	62.45	-15.62	46.83	54.00	-7.17	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	65.24	-15.45	49.79	74.00	-24.21	Vertical
4874.00	67.29	-15.45	51.84	74.00	-22.16	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	51.08	-15.45	35.63	54.00	-18.37	Vertical
4874.00	54.49	-15.45	39.04	54.00	-14.96	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	69.06	-15.26	53.80	74.00	-20.20	Vertical
4924.00	75.45	-15.26	60.19	74.00	-13.81	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	52.48	-15.26	37.22	54.00	-16.78	Vertical
4924.00	60.28	-15.26	45.02	54.00	-8.98	Horizontal

Notes:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

802.11n(HT40)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	72.99	-15.62	57.37	74.00	-16.63	Vertical
4824.00	62.03	-15.62	46.41	74.00	-27.59	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4824.00	60.52	-15.62	44.90	54.00	-9.10	Vertical
4824.00	49.97	-15.62	34.35	54.00	-19.65	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	66.74	-15.45	51.29	74.00	-22.71	Vertical
4874.00	66.22	-15.45	50.77	74.00	-23.23	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	53.13	-15.45	37.68	54.00	-16.32	Vertical
4874.00	53.58	-15.45	38.13	54.00	-15.87	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	67.69	-15.26	52.43	74.00	-21.57	Vertical
4924.00	67.99	-15.26	52.73	74.00	-21.27	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4924.00	54.82	-15.26	39.56	54.00	-14.44	Vertical
4924.00	56.54	-15.26	41.28	54.00	-12.72	Horizontal

Notes:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

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