



FCC TEST REPORT

**Test report
On Behalf of
Autel Intelligent Tech. Corp., Ltd.
For
KEY PROGRAMMING DIAGNOSTICS TOOL
Model No.: MaxiIM IM608 II, MaxiIM IM608 II Pro
FCC ID: WQ8-IM608PRO2121**

Prepared For: Autel Intelligent Tech. Corp., Ltd.

7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili, Nanshan, Shenzhen,
518055 China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

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Date of Test: Feb. 09, 2022 ~ Mar. 07, 2022

Date of Report: Mar. 07, 2022

Report Number: HK2202090298-1E



TEST RESULT CERTIFICATION

Applicant's name: Autel Intelligent Tech. Corp., Ltd.

Address: 7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili, Nanshan, Shenzhen, 518055 China

Manufacture's Name.....: Autel Intelligent Tech. Corp., Ltd.

Address: 7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili, Nanshan, Shenzhen, 518055 China

Product description

Trade Mark: Autel

Product name.....: KEY PROGRAMMING DIAGNOSTICS TOOL

Model and/or type reference : MaxiIM IM608 II, MaxiIM IM608 II Pro

Standards: FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.10: 2013

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Date of Test.....:

Date (s) of performance of tests: Feb. 09, 2022 ~ Mar. 07, 2022

Date of Issue.....: Mar. 07, 2022

Test Result.....: Pass

Testing Engineer :

(Gary Qian)

Technical Manager :

(Eden Hu)

Authorized Signatory :

(Jason Zhou)



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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Mar. 07, 2022	Jason Zhou



1. TEST RESULT SUMMARY

1.1. TEST PROCEDURES AND RESULTS

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247(b)(4)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247(b)(3)	PASS
6dB Emission 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

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

1.2. INFORMATION OF THE TEST LABORATORY

Shenzhen HUAKE Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization :

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.



1.3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.71\text{dB}$
2	RF power, conducted	$\pm 0.37\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.90\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^{\circ}\text{C}$
7	Humidity	$\pm 1.0\%$



2. EUT DESCRIPTION

2.1. GENERAL DESCRIPTION OF EUT

Equipment	KEY PROGRAMMING DIAGNOSTICS TOOL
Model Name	MaxiIM IM608 II
Series Model	MaxiIM IM608 II Pro
Model Difference	All model's the function, software and electric circuit are the same, only with a product model named different. Test sample model: MaxiIM IM608 II.
Trade Mark	Autel
FCC ID	WQ8-IM608PRO2121
Antenna Type	Internal Antenna
Antenna Gain	Antenna 1:3.9dBi Antenna 2:2.6dBi MIMO: 6.31dBi
Operation frequency	802.11b/g/n 20:2412~2462 MHz 802.11n 40: 2422~2452MHz
Number of Channels	802.11b/g/n20: 11CH 802.11n 40: 7CH
Modulation Type	CCK/OFDM/DBPSK/DAPSK
Power Source	DC 3.8V from battery or DC 12V from adapter
Power Rating	DC 3.8V from battery or DC 12V from adapter
Note: The EUT incorporates a MIMO function. Physically, it provides two completed transmitters and receivers(2T2R), two transmit signals are completely correlated, then, Direction gain=GANT + Array Gain(Array Gain=10 log(2) dB for power spectral density; Array Gain =0 for power measurement).	



2.2. CARRIER FREQUENCY OF CHANNELS

Channel List for 802.11b/802.11g/802.11n (HT20)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

Channel List For 802.11n (HT40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
--	--	04	2427	07	2442	--	--
--	--	05	2432	08	2447	--	--
03	2422	06	2437	09	2452		

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:

2.3. OPERATION OF EUT DURING TESTING

Operating Mode

The mode is used: **Transmitting mode for 802.11b/802.11g/802.11n (HT20)**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

The mode is used: **Transmitting mode for 802.11n (HT40)**

Low Channel: 2422MHz

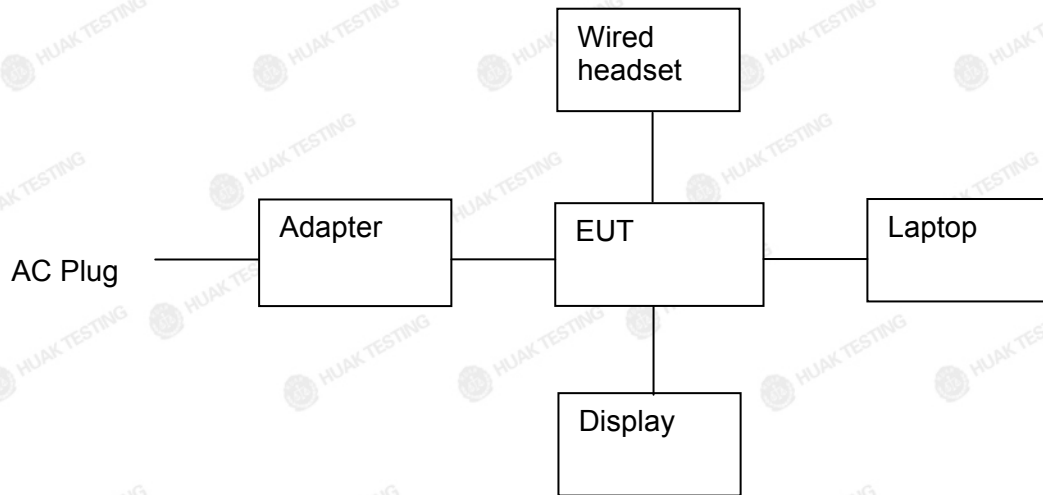
Middle Channel: 2437MHz

High Channel: 2452MHz

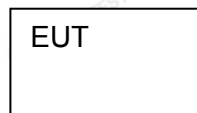


2.4. DESCRIPTION OF TEST SETUP

Operation of EUT during conducted testing and radiation below 1GHz testing:



Operation of EUT during radiation above 1GHz testing:



Laptop information

Model: TP00067A

Input: DC 20V, 2.25~3.25A

Output: 5VDC, 0.5A

Adapter information

Model: GME36E-120300FDR

Input: 100-240V~50-60Hz 1.2A

Output: 12V 3A, 36.0W

Wired headset information

Model: H1

Display information

Model: 24PFF3661/T3

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. The worst case is X position.



3. GENERAL INFORMATION

3.1. TEST ENVIRONMENT AND MODE

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)
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. For the full battery state and The output power to the maximum state.	

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 in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting with modulation
1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.	
2. According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13.5Mbps for 802.11(H40). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.	



3.2. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

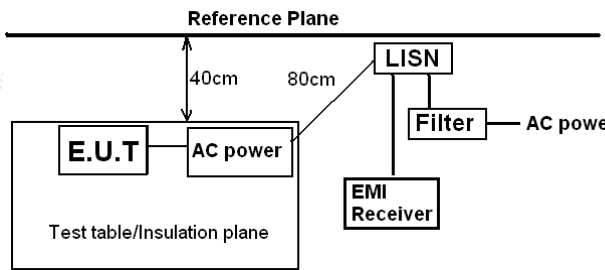
1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



4. TEST RESULTS AND MEASUREMENT DATA

4.1. CONDUCTED EMISSION

4.1.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	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
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													
Test Setup:	Reference Plane  Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m														
Test Mode:	Charging + transmitting with modulation														
Test Procedure:	1. The E.U.T is 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 Result:	PASS														



4.1.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Receiver	R&S	ESCI 7	HKE-010	Dec. 08, 2022
LISN	R&S	ENV216	HKE-002	Dec. 08, 2022
Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A

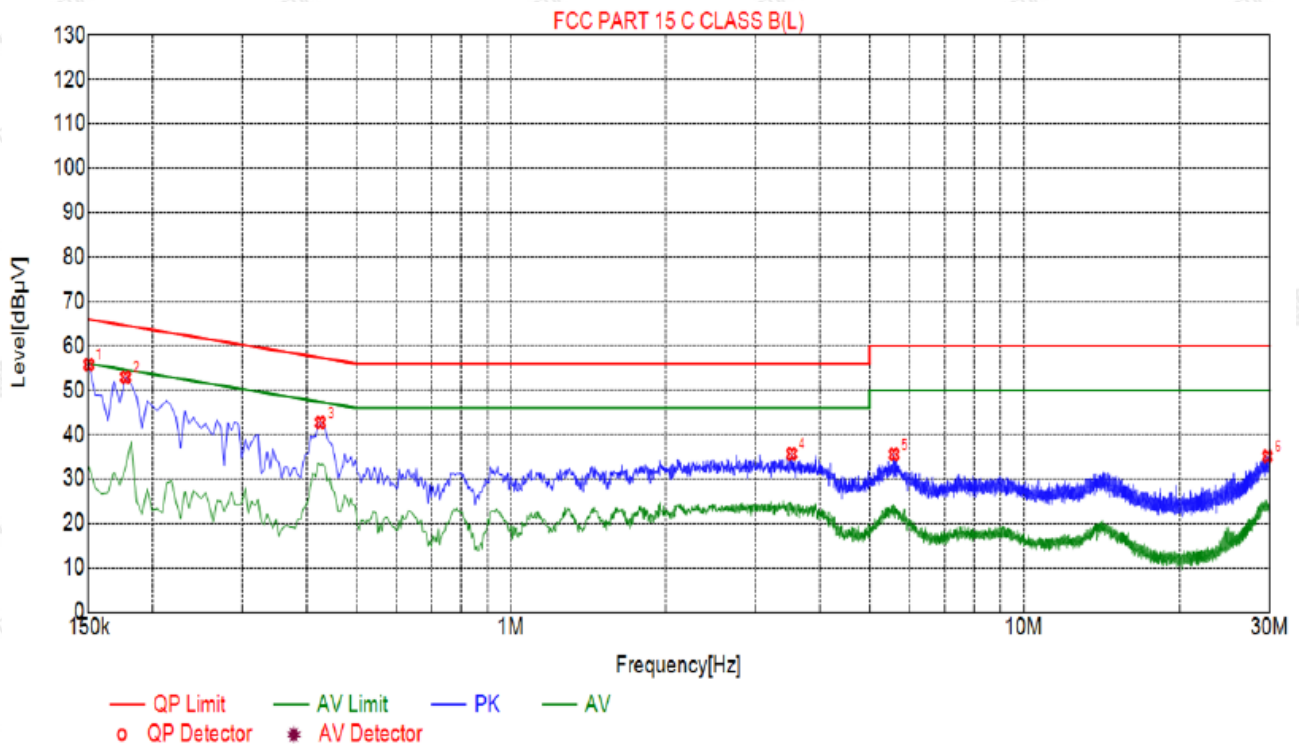
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



4.1.3. Test Data

All the test modes completed for test. only the worst result was reported as below:

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1500	55.79	20.03	66.00	10.21	35.76	PK	L
2	0.1770	52.96	20.05	64.63	11.67	32.91	PK	L
3	0.4245	42.71	20.04	57.36	14.65	22.67	PK	L
4	3.5295	35.66	20.25	56.00	20.34	15.41	PK	L
5	5.5860	35.53	20.25	60.00	24.47	15.28	PK	L
6	29.6835	35.07	20.26	60.00	24.93	14.81	PK	L

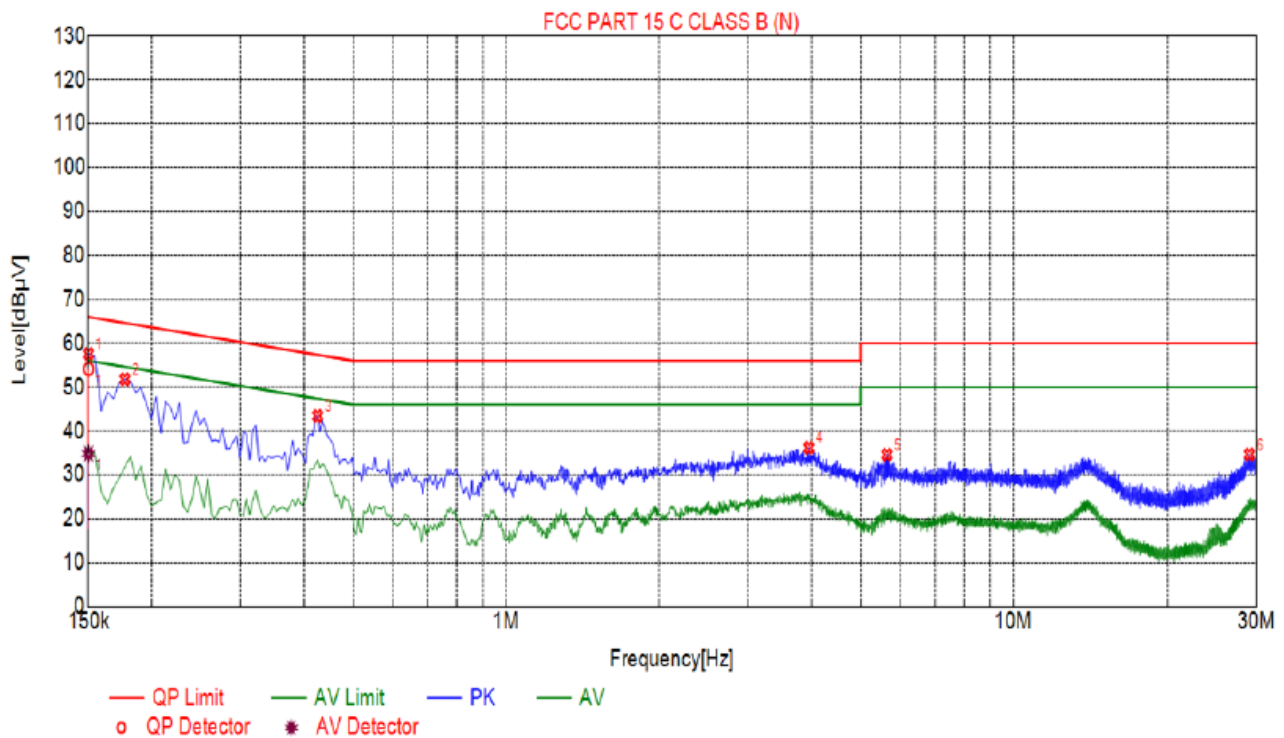
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1500	57.58	20.03	66.00	8.42	37.55	PK	N
2	0.1770	51.80	20.05	64.63	12.83	31.75	PK	N
3	0.4245	43.43	20.04	57.36	13.93	23.39	PK	N
4	3.9525	36.17	20.25	56.00	19.83	15.92	PK	N
5	5.6400	34.58	20.25	60.00	25.42	14.33	PK	N
6	29.0220	34.64	20.26	60.00	25.36	14.38	PK	N

Final Data List

NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	QP Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	AV Reading [dBμV]	Type
1	0.1500	20.03	54.13	66.00	11.87	34.10	34.82	56.00	21.18	14.79	N

Remark: Margin = Limit – Level

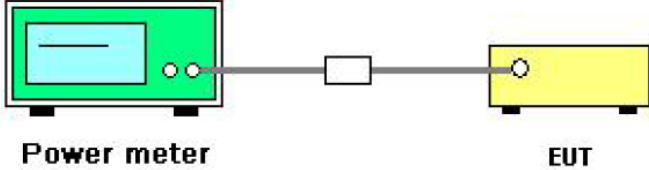
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



4.2. MAXIMUM CONDUCTED OUTPUT POWER

4.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074
Limit:	30dBm
Test Setup:	 The diagram illustrates the test setup. On the left is a green rectangular box labeled 'Power meter'. A cable connects it to a small white square labeled 'Attenuator'. Another cable connects the attenuator to a yellow rectangular box labeled 'EUT' (Equipment Under Test).
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the Measurement Procedure of FCC KDB No. 558074 D01 15.247 Meas Guidance v05r02. 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Measure the Peak output power and record the results in the test report.
Test Result:	PASS

4.2.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Power meter	Agilent	E4419B	HKE-085	Dec. 08, 2022
Power Sensor	Agilent	E9300A	HKE-086	Dec. 08, 2022
RF cable	Times	1-40G	HKE-034	Dec. 08, 2022
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 08, 2022

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

**4.2.3. Test Data**

Test Channel	Frequency	Maximum Peak Conducted Output Power (dBm)			LIMIT
	(MHz)	Antenna port 1	Antenna port 2	MIMO	dBm
TX 802.11b Mode					
CH01	2412	17.40	19.38	/	30
CH06	2437	15.45	15.10	/	30
CH11	2462	18.97	18.94	/	30
TX 802.11g Mode					
CH01	2412	18.71	17.48	/	30
CH06	2437	16.78	18.40	/	30
CH11	2462	17.77	18.31	/	30
TX 802.11n20 Mode					
CH01	2412	18.72	18.59	21.67	30
CH06	2437	18.69	18.34	21.53	30
CH11	2462	17.81	16.33	20.14	30
TX 802.11n40 Mode					
CH03	2422	16.42	17.93	20.25	30
CH06	2437	16.31	17.98	20.24	30
CH09	2452	17.33	18.35	20.88	30
Note: This product supports antenna 1 and antenna 2 launch, but only support 802.11 n for MIMO mode, not support 802.11 b and 802.11 g for MIMO mode.					



4.3. EMISSION BANDWIDTH

4.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074
Limit:	>500kHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	PASS

4.3.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 08, 2022
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Dec. 08, 2022
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 08, 2022

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



4.3.3. Test Data

For antenna port 1

Test channel	6dB Emission Bandwidth (MHz)			
	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	8.52	16.36	17.68	36.00
Middle	8.52	16.36	17.00	35.36
Highest	7.60	16.32	17.60	35.76
Limit:	>500k			
Test Result:	PASS			

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel



Highest channel



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802.11g Modulation

Lowest channel



Middle channel



Highest channel



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802.11n (HT20) Modulation

Lowest channel



Middle channel



Highest channel



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802.11n (HT40) Modulation

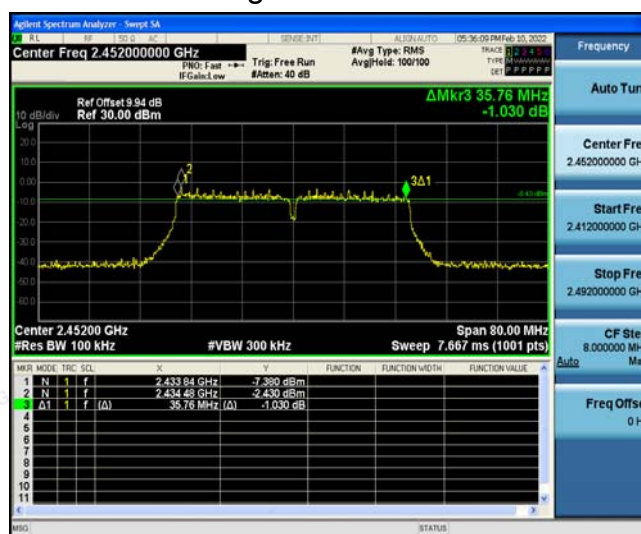
Lowest channel



Middle channel



Highest channel



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**For antenna port 2**

Test channel	6dB Emission Bandwidth (MHz)			
	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	8.04	16.36	17.56	36.32
Middle	8.56	16.40	17.56	36.32
Highest	7.60	16.08	17.60	35.92
Limit:	≥500 (kHz)			
Test Result:	PASS			

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel



Highest channel



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802.11g Modulation

Lowest channel



Middle channel



Highest channel



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802.11n (HT20) Modulation

Lowest channel



Middle channel



Highest channel



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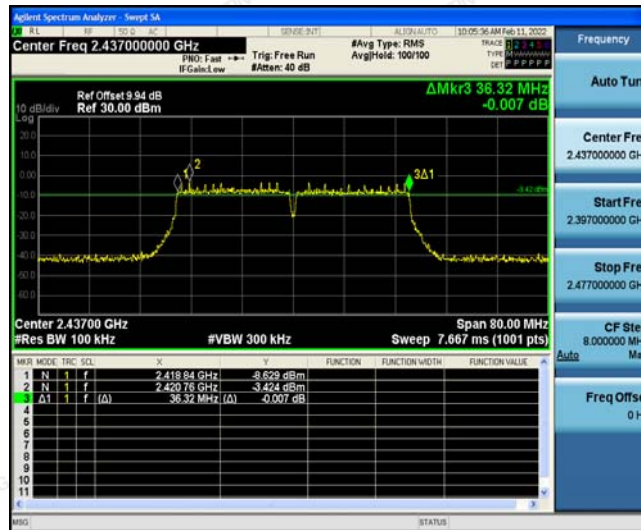


802.11n (HT40) Modulation

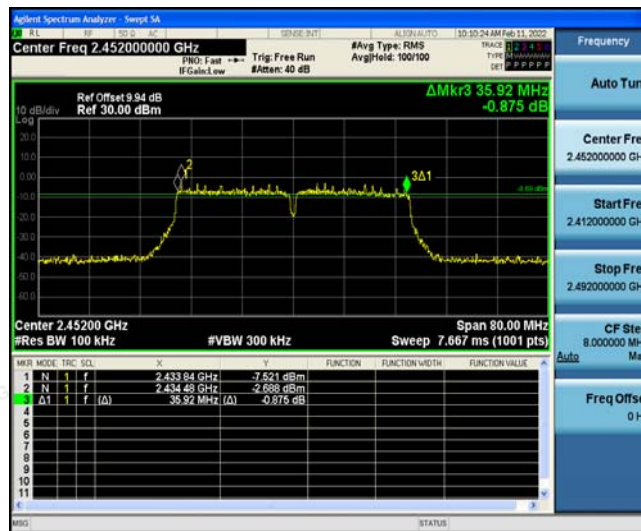
Lowest channel



Middle channel



Highest channel

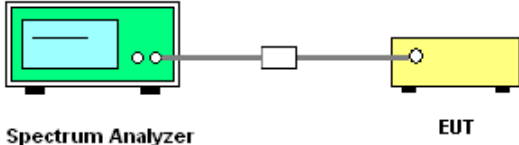


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4.4. POWER SPECTRAL DENSITY

4.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication No.558074 D01 15.247 Meas Guidance v05r02. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$. Video bandwidth VBW $\geq 3 \times \text{RBW}$. Set the span to at least 1.5 times the OBW. 5. Detector = Peak, Sweep time = auto couple. 6. Employ trace averaging (Peak) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. 7. Measure and record the results in the test report.
Test Result:	PASS

4.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 08, 2022
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Dec. 08, 2022
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 08, 2022

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

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4.4.3. Test data

For antenna port 1

EUT Set Mode	Channel	Result (dBm/30kHz)	Result (dBm/3kHz)
802.11b	Lowest	-0.35	-10.35
	Middle	0.27	-9.73
	Highest	-0.17	-10.17
802.11g	Lowest	-4.72	-14.72
	Middle	-3.25	-13.25
	Highest	-4.36	-14.36
802.11n(H20)	Lowest	-4.75	-14.75
	Middle	-4.92	-14.92
	Highest	-3.91	-13.91
802.11n(H40)	Lowest	-7.05	-17.05
	Middle	-7.16	-17.16
	Highest	-7.37	-17.37
PSD test result (dBm/3kHz)= PSD test result (dBm/30kHz)-10			
Limit: 8dBm/3kHz			
Test Result:	PASS		

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel



Highest channel

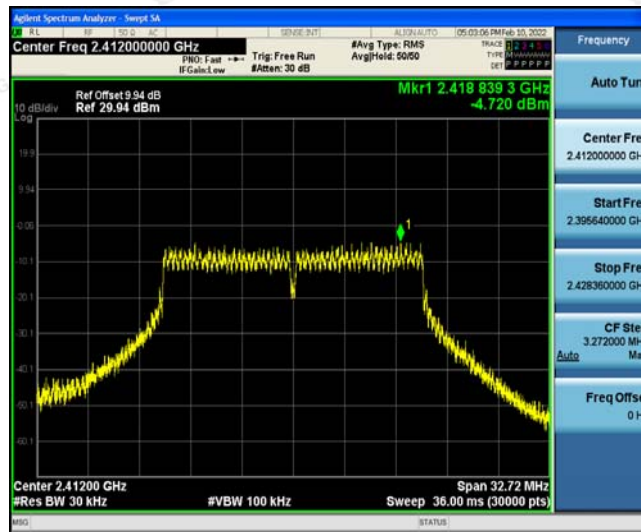


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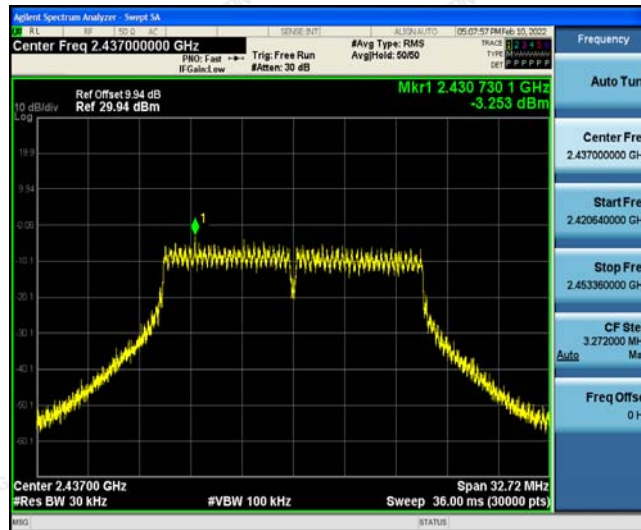


802.11g Modulation

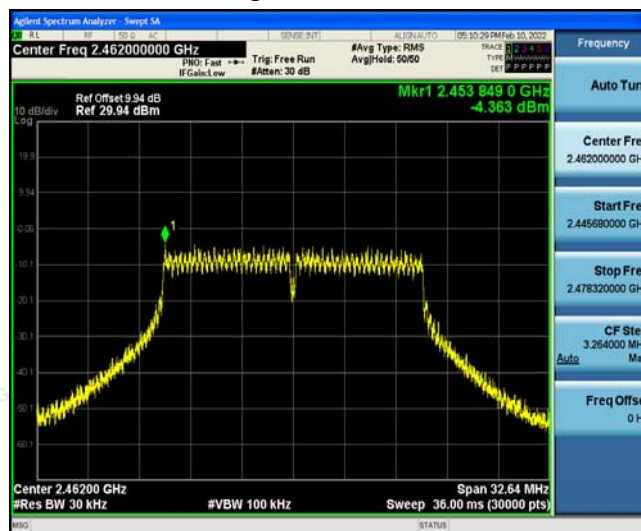
Lowest channel



Middle channel



Highest channel

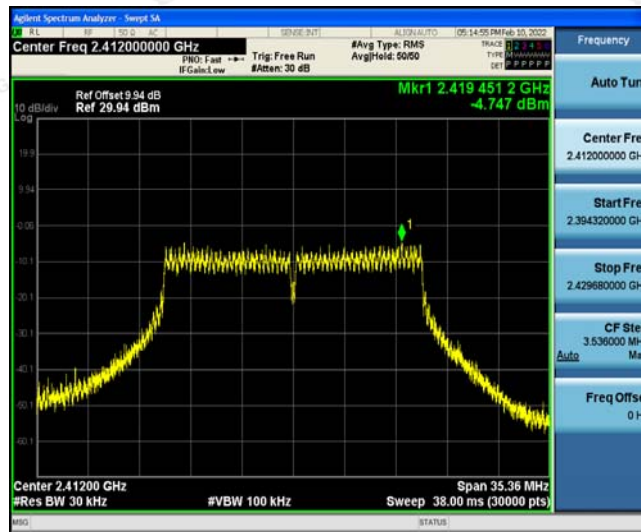


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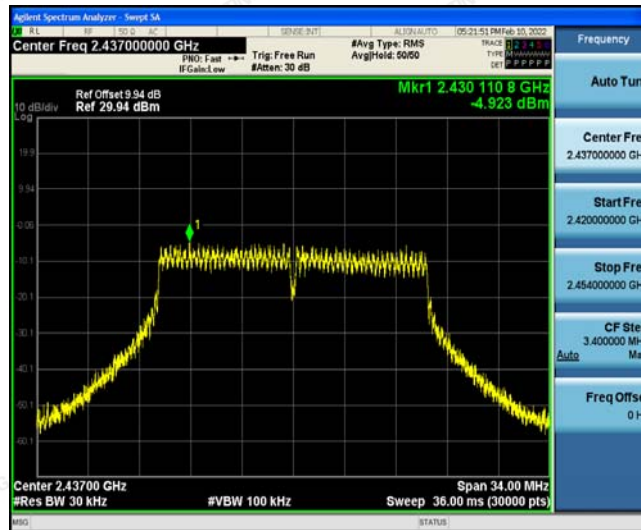


802.11n (HT20) Modulation

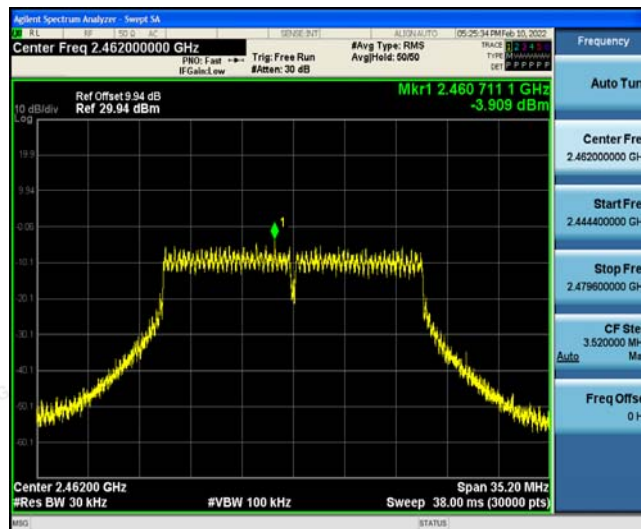
Lowest channel



Middle channel



Highest channel

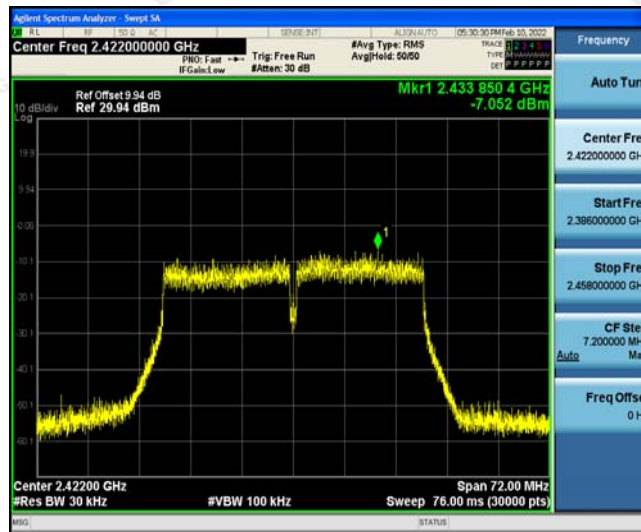


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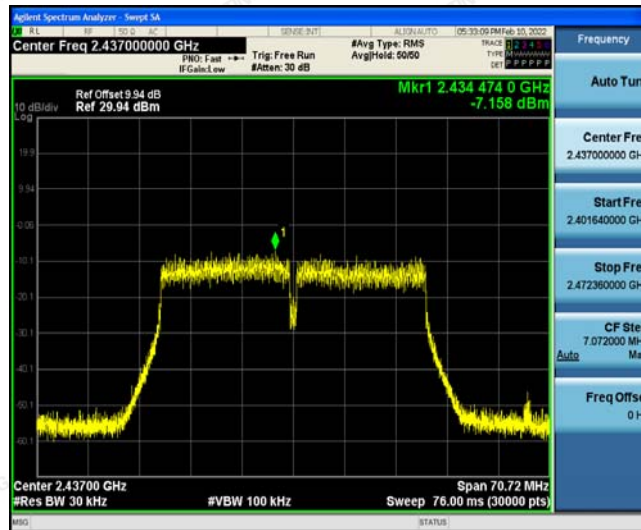


802.11n (HT40) Modulation

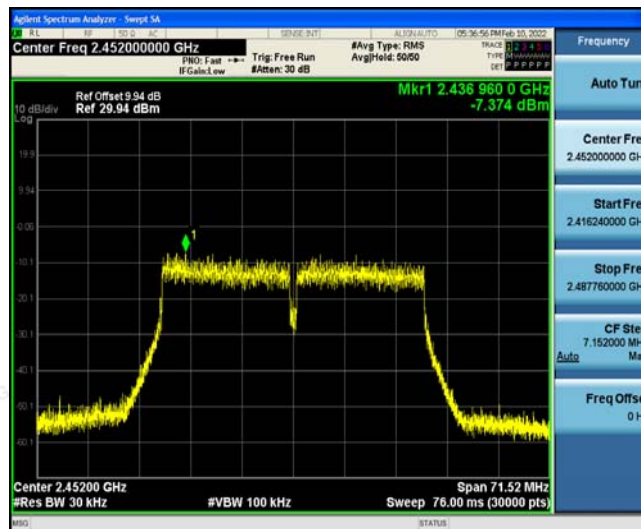
Lowest channel



Middle channel



Highest channel



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**For antenna port 2**

EUT Set Mode	Channel	Result (dBm/30kHz)	Result (dBm/3kHz)
802.11b	Lowest	2.01	-7.99
	Middle	-0.46	-10.46
	Highest	1.14	-8.86
802.11g	Lowest	-2.57	-12.57
	Middle	-4.79	-14.79
	Highest	-3.73	-13.73
802.11n(H20)	Lowest	-3.63	-13.63
	Middle	-5.16	-15.16
	Highest	-3.9	-13.9
802.11n(H40)	Lowest	-6.88	-16.88
	Middle	-8.2	-18.2
	Highest	-7.72	-17.72
PSD test result (dBm/3kHz)= PSD test result (dBm/30kHz)-10			
Limit: 8dBm/3kHz			
Test Result:	PASS		

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel



Highest channel

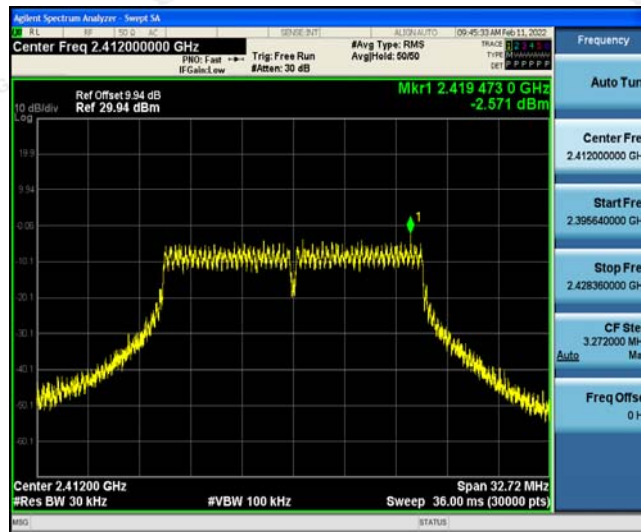


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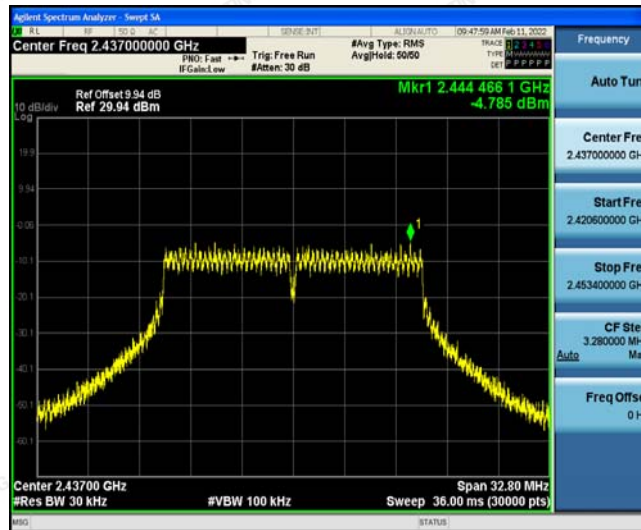


802.11g Modulation

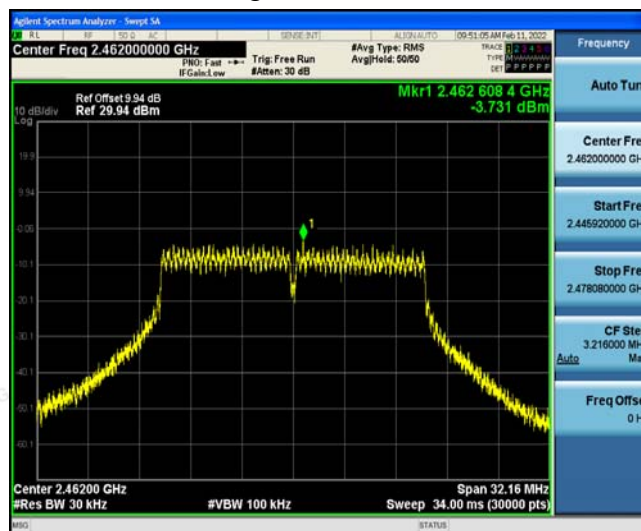
Lowest channel



Middle channel



Highest channel

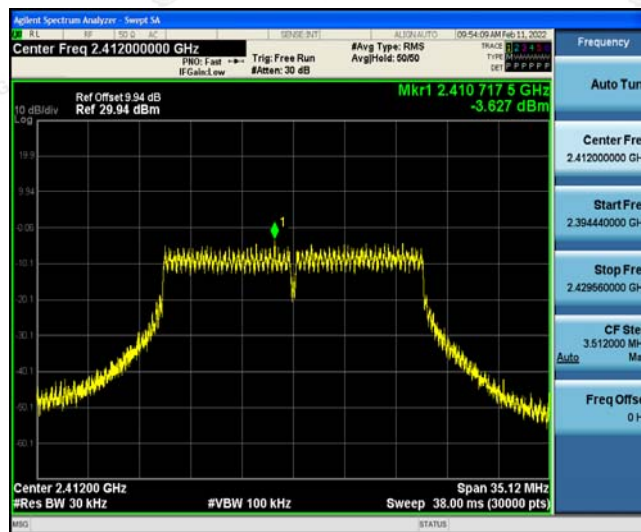


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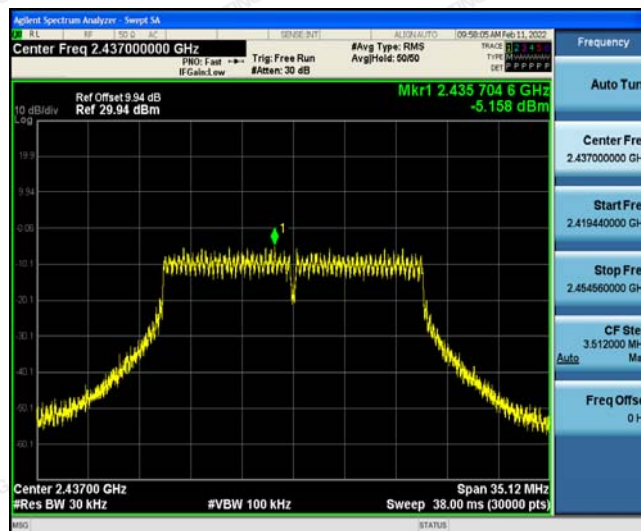


802.11n (HT20) Modulation

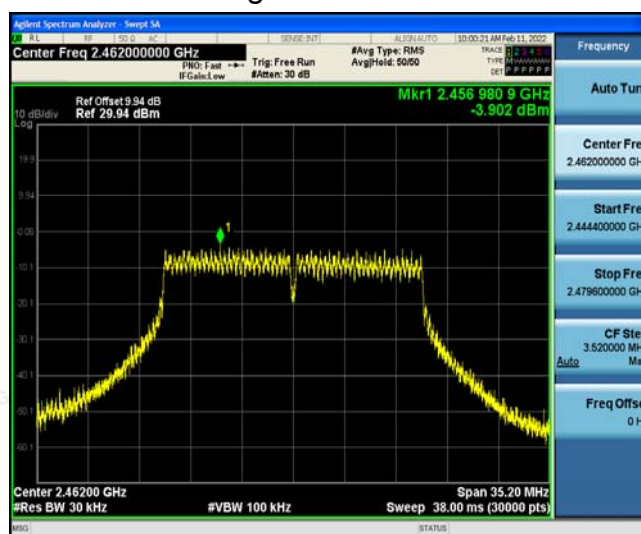
Lowest channel



Middle channel



Highest channel

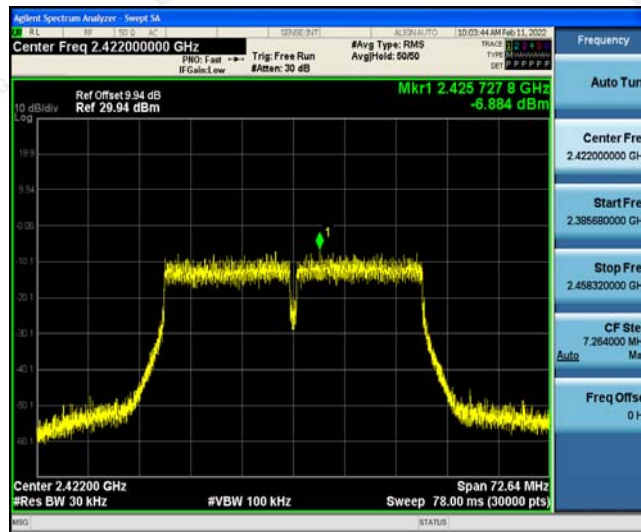


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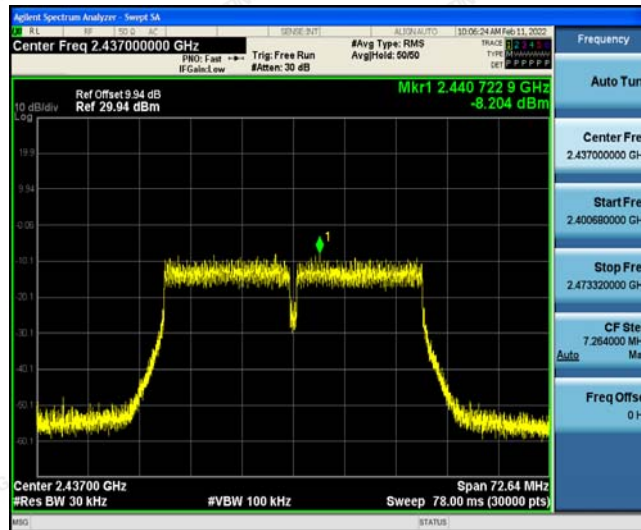


802.11n (HT40) Modulation

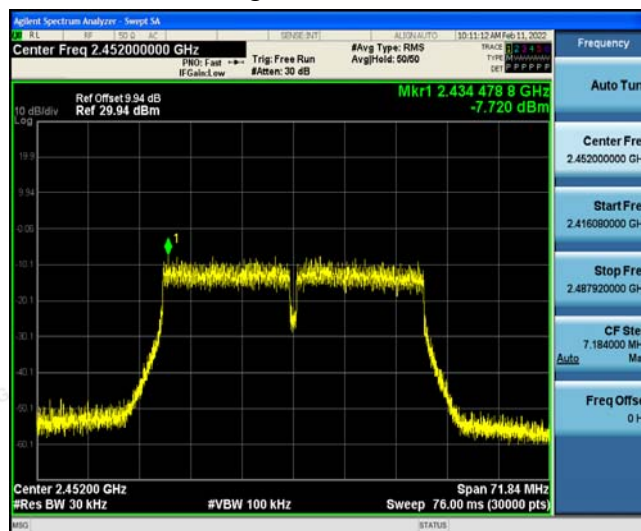
Lowest channel



Middle channel



Highest channel



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**For MIMO antenna port 1+antenna port 2**

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
TX 802.11n/HT20 Mode			
2412 MHz	-11.14	7.69	PASS
2437 MHz	-12.03	7.69	PASS
2462 MHz	-10.89	7.69	PASS
TX 802.11n/HT40 Mode			
2422 MHz	-13.95	7.69	PASS
2437 MHz	-14.64	7.69	PASS
2452 MHz	-14.53	7.69	PASS
Note: 1 According to KDB 662911, Result power = $10\log(10^{(ant1/10)} + 10^{(ant2/10)})$. 2. limit=8dBm-(direction gain-6dBi)=7.69dBm			

Note: This product supports antenna 1 and antenna 2 launch, but only support 802.11 n for MIMO mode, not support 802.11 b and 802.11 g for MIMO mode.

