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Report No. D240820001

TEST REPORT

Applicant:	STONKAM CO., LTD.
Address of Applicant:	101, Building 6, No.1 Ruihua Road, Tianhe District, Guangzhou Guangdong, P. R. China
Manufacturer:	STONKAM CO., LTD.
Address of Manufacturer:	101, Building 6, No.1 Ruihua Road, Tianhe District, Guangzhou Guangdong, P. R. China
Product name:	Wi-Fi Module
Model(s):	AC575
Rating(s):	DC 5V
Trademark:	STONKAM
Standards:	47 CFR PART 15 Subpart C section 15.247
FCC ID:	2ATW7-AC575
Data of Receipt:	2024-06-21
Date of Test:	2024-06-21-2024-08-23
Date of Issue:	2024-08-23
Test Result	Pass*

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

Authorized for issue by: Reviewed by: Test by: gotor 1 Aug.23, 2024 Chivas Tsang Victor Meng Aug.23, 2024 Project Manager **Project Engineer** Name/Position Date Name/Position Signature Date Signature *



Testing Laboratory information:			
Testing Laboratory Name ITL Co., Ltd			
Address :		No. 8 Jinqianling Street 5, Huangjiang Town, Dongguan, Guangdong, 523757 P.R.C.	
Testing location :		Same as above	
Tel :		0086-769-39001678	
Fax :		0086-20-62824387	
E-mail :		itl@i-testlab.com	
Possible test case ver	dicts:		
- test case does not app	oly to the test ob	ject.: N/A	
- test object does meet	the requirement	t: P (Pass)	
- test object does not me	eet the requiren	nent.: F (Fail)	
General remarks:			
The test results presented in this report relate only to the object tested. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.			
This report would be invalid test report without all the signatures of testing technician and approver.			
This report shall not be reproduced, except in full, without the written approval of the Issuing testing			
laboratory. General product information:			
/			



Report No. D240820001

1 Test Summary

Test	Test Requirement	Test method	Result	
	FCC PART 15 C	FCC PART 15 C		
Antenna Requirement	section 15.247 (c) and	section 15.247 (c) and	PASS	
	Section 15.203	Section 15.203		
Occupied Bandwidth	FCC PART 15 C	ANSI C63.10:2013	PASS	
	section 15.247 (a)(2)	,	17100	
Maximum Peak Output Power	FCC PART 15 C	ANSI C63.10: 2013	PASS	
	section 15.247(b)(3)		17.00	
Peak Power Spectral Density	FCC PART 15 C	ANSI C63.10:2013	PASS	
	section 15.247(e)			
Conducted Spurious Emission	FCC PART 15 C			
(30 MHz to 25GHz)	section 15.209	ANSI C63.10:2013	PASS	
, , , , , , , , , , , , , , , , , , ,	&15.247(d)			
Radiated Spurious Emission	FCC PART 15 C			
(30 MHz to 25 GHz)	section 15.209	ANSI C63.10:2013	PASS	
, , , , , , , , , , , , , , , , , , ,	&15.247(d)			
	FCC PART 15 C			
Band Edges Measurement	section 15.209	ANSI C63.10:2013	PASS	
	&15.247(d)			
Conducted Emissions at Mains	FCC PART 15 C	ANSI C63.10:2013	N/A	
Terminals	section 15.207			
Radiated Emissions which fall	FCC PART 15 C	ANSI C63.10:2013	PASS	
in the restricted bands	section 15.209			



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3 General Information

3.1 Client Information

Applicant:STONKAM CO., LTD.101, Building 6, No.1 Ruihua Road, Tianhe District, Guangzhou Guangdong, P.Address of Applicant:R. China

3.2 General Description of E.U.T.

Name:	Wi-Fi Module
Model No.:	AC575
Trade Mark:	STONKAM
Operating Frequency:	802.11 b/g/n(HT20): 2412MHz-2462MHz;
Channels:	802.11 n(HT40): 2422MHz-2452MHz
Type of Modulation	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Antenna Type:	FPC antenna with 3.12dBi peak Gain

3.3 Details of E.U.T.

EUT Power Supply: DC 5V

3.4 Description of Support Units

The EUT has been tested as an independent unit for fixed frequency by testing lab.

3.5 Test Location

All tests were performed at: ITL Co., Ltd No. 8 Jinqianling Street 5, Huangjiang Town, Dongguan, Guangdong, 523757 P.R.C. 0086-769-39001678 itl@i-testlab.com No tests were sub-contracted.

3.6 Test Facility

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

- CNAS Lab code:L9342
- FCC Designation No.:CN5035
- IC Registration NO.: 12593A
- NVLAP LAB CODE: 600199-0



3.7 Measurement Uncertainty

The below measurement uncertainties given below are based on a 95% confidence level (base on a coverage factor (k=2).)

Parameter	Uncertainty
Radio frequency	2.25%
total RF power, conducted	±1.34 dB
RF power density , conducted	±1.49 dB
All emissions, radiated	±2.72 dB
Temperature	±5.02 dB
Humidity	±0.8°C
DC and low frequency voltages	±1.5 %



4 Instruments Used during Test

No.	Test Equipment	Manufacturer	Model	Serial No.	Cal Data	Due Date
DGITL- 301	Semi-Anechoic chamber	ETS•Lindgren	9*6*6	CT000874- 1181	2023.08.02	2026.08.02
DGITL- 307	EMI test receiver	SCHWARZBEC K	ESVS10	833616 /003	2024.03.15	2025.03.15
DGITL-376	Wideband Radio Communication Tester	SCHWARZBEC K	CMW500	LR114195	2024.03.15	2025.03.15
DGITL-349a	Vector Signal Generator	ROHDE&SCHW ARZ	SMBV100A	259268	2024.03.15	2025.03.15
DGITL- 306	Spectrum Analyzer	Agilent Technologies	N9010A	MY542003 34	2024.03.15	2025.03.15
DGITL- 352	Pre Amplifier	MInI-CIrcuits	ZFC- 1000HX	SN2928011 10	2024.03.15	2025.03.15
DGITL-375	Spectrum Analyzer	SCHWARZBEC K	FSV40-N	6625-01- 588-5515	2024.03.15	2025.03.15
DGITL-309	Horn Antenna	ETS Lindgren	3117	SN0015226 5	2023.05.14	2025.05.14
DGITL-308	Bilog Antenna	ETS. Lindgren	3142E	156975	2023.05.14	2025.05.14
DGITL-350	Wideband Amplifier Super Ultra	MInI-CIrcuits	ZVA-183X- S+	SN9864014 26	2024.03.15	2025.03.15
DGITL-371	Pre Amplifier	teramicrowave	TALA- 0040G35	18081001	2024.03.15	2025.03.15



5 Test Results

5.1 E.U.T test conditions

Test Voltage:	120V AC, 60Hz
Temperature:	23.2 -25.0 °C
Humidity:	38-50 % RH
Atmospheric Pressure:	1000 -1010 mbar
Requirements:	 15.31(e): For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery. 15.32: Power supplies and CPU boards used with personal computers and for which separate authorizations are required to be obtained shall be tested as follows: Testing shall be in accordance with the procedures specified in Section 15.31 of this part.
Test frequencies and frequency range:	According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table: According to the 15.33 (a) For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Number of fundamental frequencies to be tested in EUT transmit band	

Frequency range in which	Number of	Location in frequency range
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1
		near bottom



Frequency range of radiated emission measurements

Lowest frequency generated	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz,
At or above 10 GHz to below	5th harmonic of highest fundamental frequency or to 100 GHz,
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz,

EUT channels and frequencies list:

Working Frequency of Each Channel:			
channel	Frequency	channel	Frequency
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2437		

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11b	2412MHz, 2437MHz, 2462MHz,
TM2	802.11g	2412MHz, 2437MHz, 2462MHz,
TM3	802.11n(20MHz)	2412MHz, 2437MHz, 2462MHz,
TM4	802.11n(40MHz)	2422MHz, 2437MHz, 2452MHz,



5.2 Antenna requirement

Standard requirement

15.203 requirement:

For intentional device. According to 15.203. An intentional radiator shall be designed to Ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz bands that are used exclusively for fixed.
 Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna

The antenna is a FPC antenna and no consideration of replacement. The best-case gain of the antenna is 3.12dBi.

Test result: The unit does meet the FCC requirements.

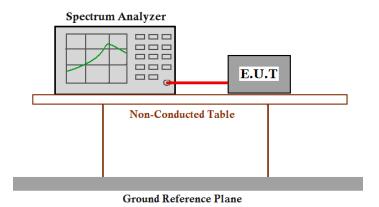


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5.3 Occupied Bandwidth

Test Requirement:	FCC Part 15 C section 15.247 (a)(2)Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10:2013
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

- Remove the antenna from the EUT and then connect a low attention attenuation RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW=100kHz. VBW = 300kHz, Sweep = auto; Detector Function = Peak. Trace = Max Hold, Set span to encompass the entire emission bandwidth of the signal.
- 3. Mark the peak power frequency and -6dB (upper and lower) power frequency.
- 4. Repeat until all the test status is investigated.
- 5. Report the worst case.



Test result (6 dB bandwidth)

Test Mode	Test Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
	2412	8.336	≥500	Pass
802.11b	2437	8.220	≥500	Pass
	2462	8.394	≥500	Pass
802.11g	2412	16.556	≥500	Pass
	2437	16.556	≥500	Pass
	2462	16.498	≥500	Pass
802.11n (HT20)	2412	17.714	≥500	Pass
	2437	17.714	≥500	Pass
	2462	17.714	≥500	Pass
802.11n (HT40)	2422	35.970	≥500	Pass
	2437	35.948	≥500	Pass
	2452	35.687	≥500	Pass

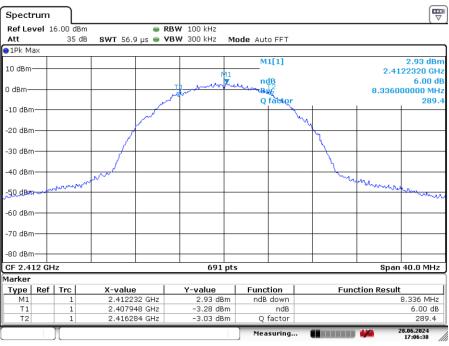
The unit does meet the FCC requirements.



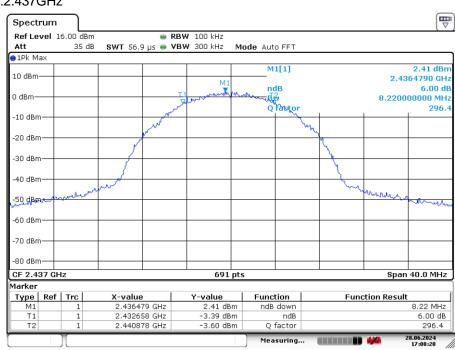
Result plot as follows:

802.11b





Date: 28.JUN.2024 17:06:37

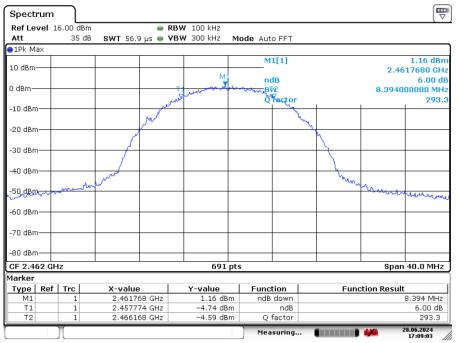


Channel 6:2.437GHz

Date: 28.JUN.2024 17:08:21

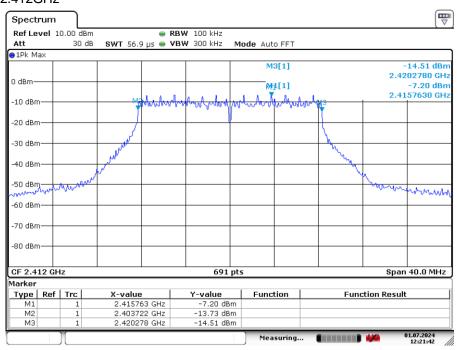


Channel 11:2.462GHz



Date: 28.JUN.2024 17:09:04

802.11g

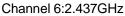


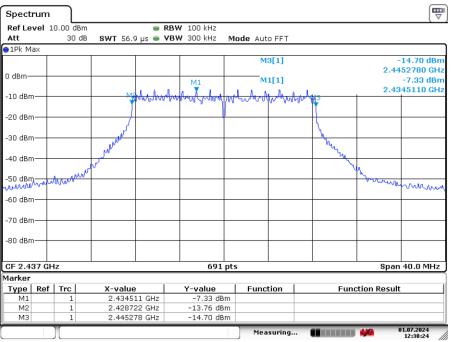
Channel 1:2.412GHz

Date: 1.JUL.2024 12:21:41

-6dB Bandwidth = 2.420278GHz-2.403722GHz=16.556MHz

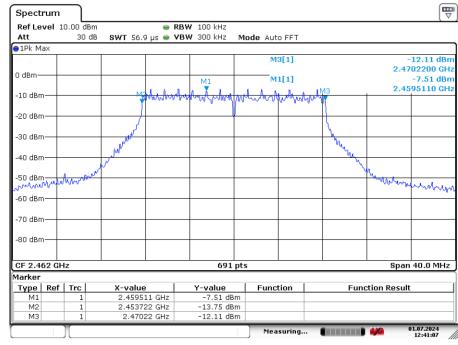






Date: 1.JUL.2024 12:38:24

-6dB Bandwidth =2.445278GHz-2.428722GHz=16.556MHz



Channel 11:2.462GHz

Date: 1.JUL.2024 12:41:07

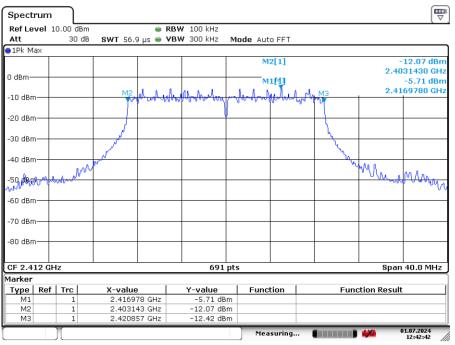
-6dB Bandwidth =2.47022GHz-2.453722GHz=16.498MHz



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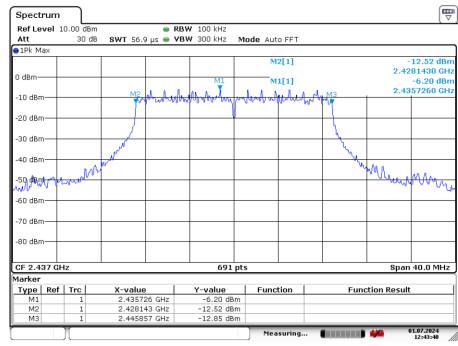
802.11n (HT20)





Date: 1.JUL.2024 12:42:42

-6dB Bandwidth =2.420857GHz-2.403143GHz=17.714MHz



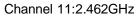
Channel 6:2.437GHz

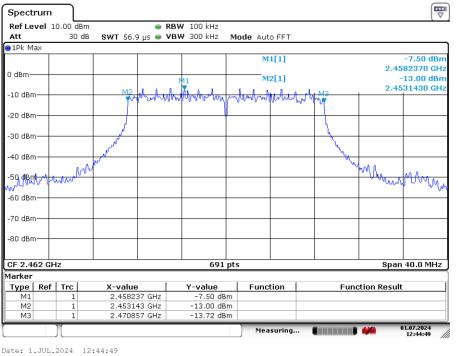
Date: 1.JUL.2024 12:43:40

-6dB Bandwidth =2.445857GHz-2.428143GHz=17.714MHz



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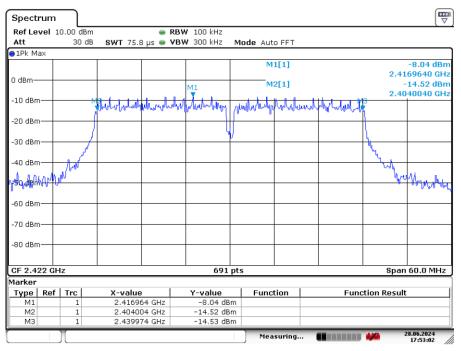




-6dB Bandwidth =2.470857GHz-2.453143GHz=17.714MHz

802.11n (HT40)

2.422GHz

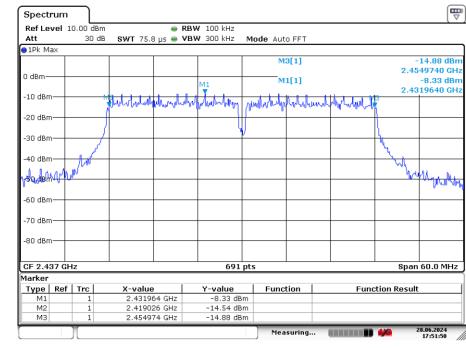


Date: 28.JUN.2024 17:53:03

-6dB Bandwidth =2.439974GHz-2.404004GHz=35.970MHz



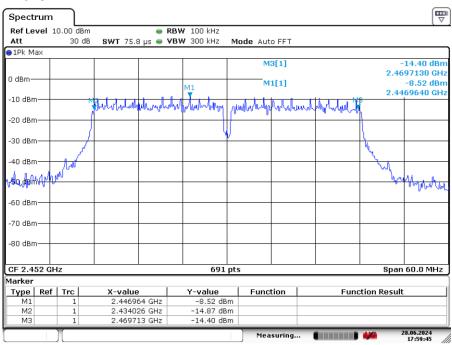
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Channel 6:2.437GHz

Date: 28.JUN.2024 17:51:51





Channel 11:2.452GHz

Date: 28.JUN.2024 17:59:45

-6dB Bandwidth =2.469713GHz-2.434026GHz=35.687MHz

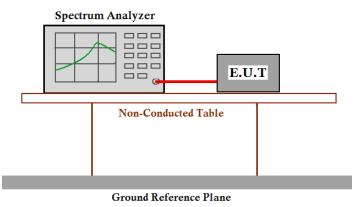


Report No.: D240820001

5.4 Maximum Peak Output Power

Test Requirement:	FCC Part 15 C section 15.247
	(b)(3) For systems using digital modulation in the 902-928 MHz,
	2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. 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.
Test Method:	ANSI C63.10:2013
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable from the antenna port to the spectrum.
- 2. Set span to at least 1.5 times the OBW.
- 3. Set RBW = 1 % to 5% of OBW, not to exceed 1 MHz
- 4. Set VBW \geq 3 x RBW.

5. Number of points in sweep \geq [2 × span / RBW]. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)

6. Sweep time = auto.

7. If transmit duty cycle < 98%, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or

at duty cycle \geq 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."

8. Trace average 100 traces in power averaging mode.



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9. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power

units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

10. Repeat until all the test status is investigated.

11. Report the worst case.

Test Data:

Test mode	Test Channel	Test Result (dBm)	Limit (dBm)
	2412	17.367	30
802.11b	2437	17.315	30
	2462	16.952	30
	2412	13.741	30
802.11g	2437	13.511	30
	2462	12.776	30
	2412	13.745	30
802.11n (HT20)	2437	13.365	30
	2462	12.607	30
	2422	13.895	30
802.11n (HT40)	2437	13.723	30
	2452	13.285	30

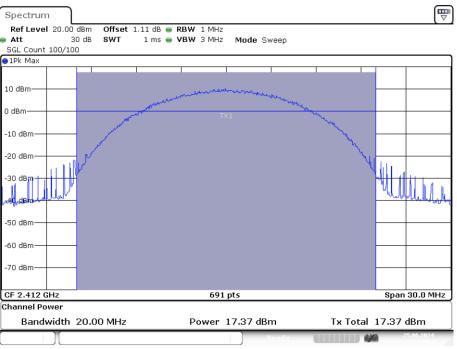
The unit does meet the FCC requirements.



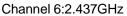
Result plot as follows:

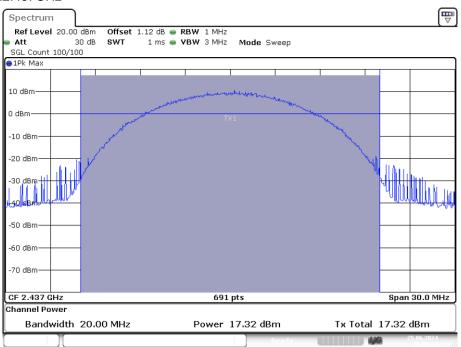
802.11b

Channel 1:2.412GHz



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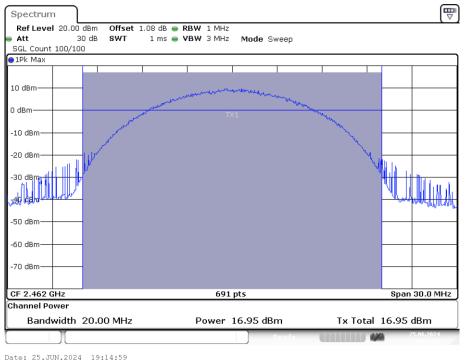


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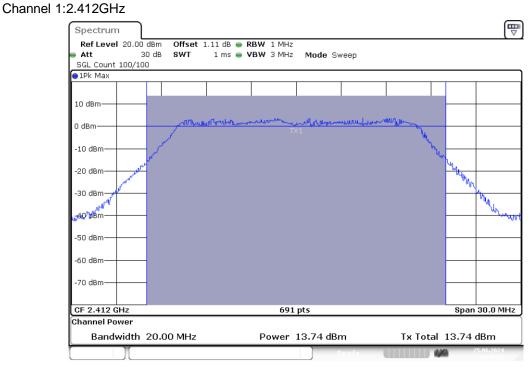


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Channel 11:2.462GHz



802.11g

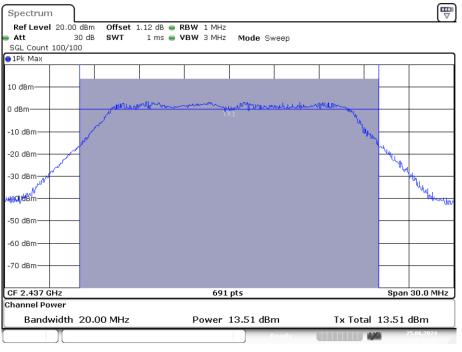


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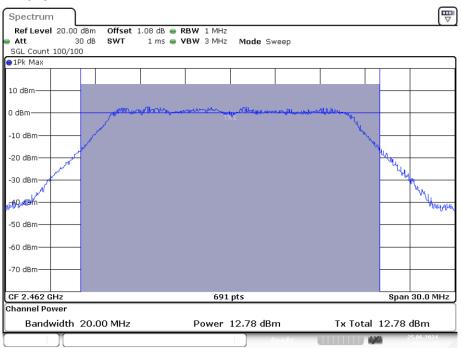
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Channel 6:2.437GHz



Date: 25.JUN.2024 19:21:38

Channel 11:2.462GHz



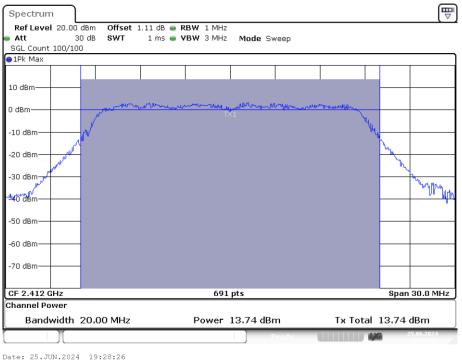
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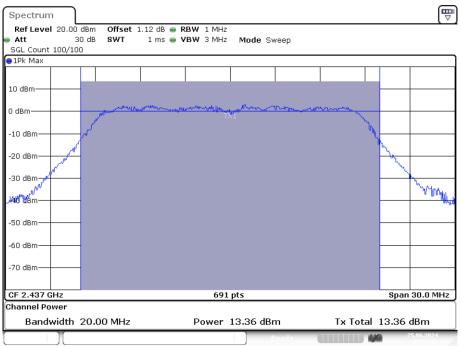
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802.11n (HT20)

Channel 1:2.412GHz



Channel 6:2.437GHz

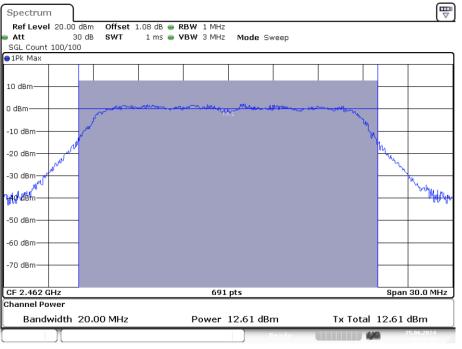


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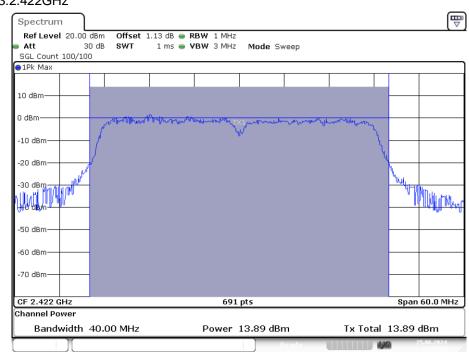
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Channel 11:2.462GHz



Date: 25.JUN.2024 19:35:06

802.11n (HT40)



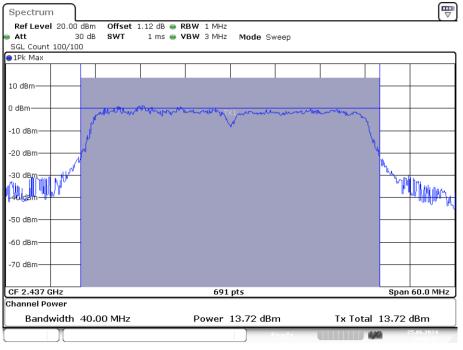
Channel 3:2.422GHz

Date: 25.JUN.2024 19:39:18

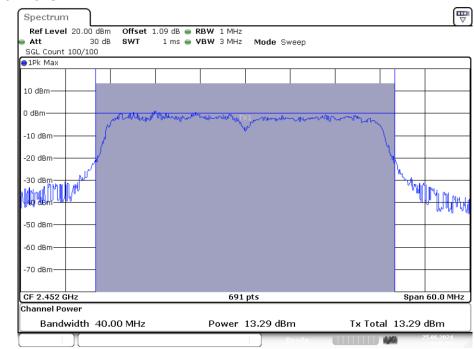


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Channel 6:2.437GHz



Date: 25.JUN.2024 19:42:47



Channel 9:2.452GHz

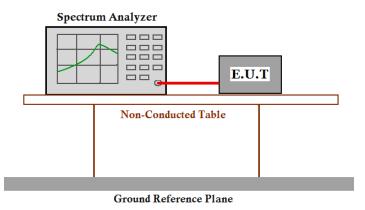
Date: 25.JUN.2024 19:46:16



5.5 Peak Power Spectral Density

Test Requirement:	FCC Part 15 C section 15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10:2013
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channel and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable from the antenna port to the spectrum analyzer or power meter.
- 2. Set the spectrum analyzer:
 - a) Set instrument centre frequency to DTS channel centre frequency.
 - b) Set the span to 1.5 times the DTS bandwidth.
 - c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 - d) Set the VBW \geq [3 \times RBW].
 - e) Detector = peak.



- f) sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
- 3. Repeat until all the test status is investigated.
- 4. Report the worst case.

Test mode	Test Channel	Test Result (dBm/3kHz)	Limit (dBm/3kHz)
	2412	1.628	
802.11b	2437	2.533	
	2462	2.488	
	2412	-4.946	
802.11g	2437	-5.179	
002.1.1g	2462	-6.310	8
	2412	-4.784	0
802.11n (HT20)	2437	-5.465	
	2462	-5.721	
	2422	-7.513	
802.11n (HT40)	2437	-7.583	
	2452	-8.103	

The unit does meet the FCC requirements.

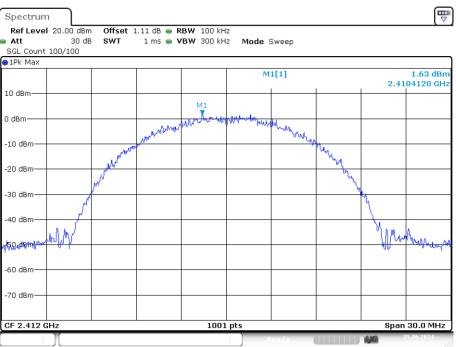


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Result plot as follows:

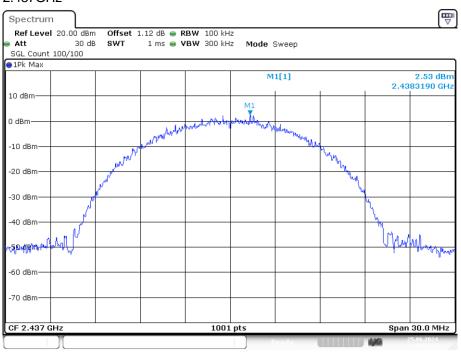
802.11b

Channel 1:2.412 GHz



Date: 25.JUN.2024 18:59:49

Channel 6: 2.437GHz

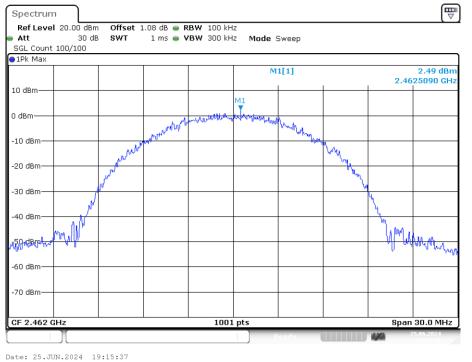


Date: 25.JUN.2024 19:04:16

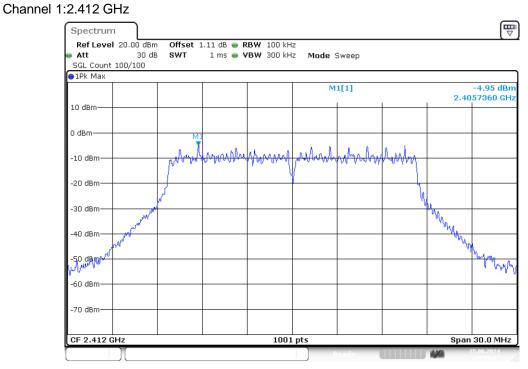


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Channel 11:2.462 GHz



802.11g

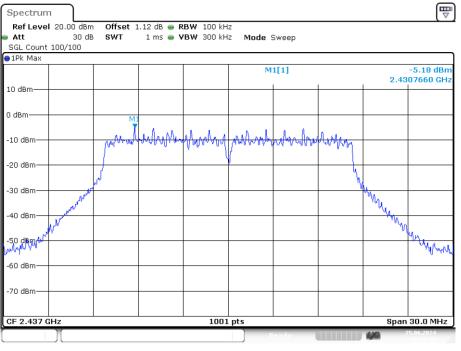


Date: 25.JUN.2024 19:19:17



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Channel 6: 2.437GHz



Date: 25.JUN.2024 19:22:19



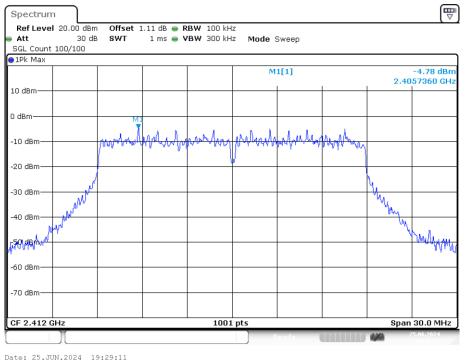
Date: 25.JUN.2024 19:25:31



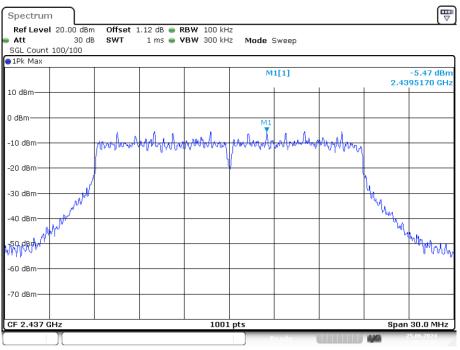
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802.11n (HT20)

Channel 1:2.412 GHz



Channel 6: 2.437GHz

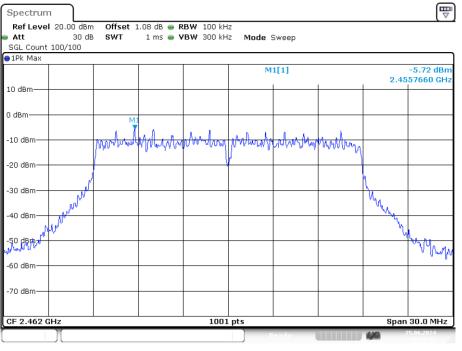


Date: 25.JUN.2024 19:31:54



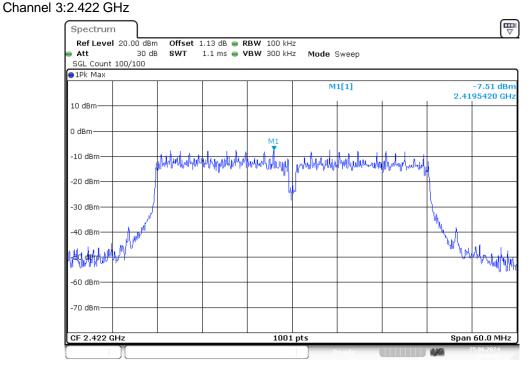
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Channel 11:2.462 GHz



Date: 25.JUN.2024 19:35:58

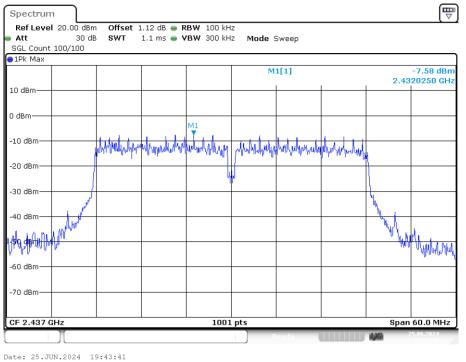
802.11n (HT40)



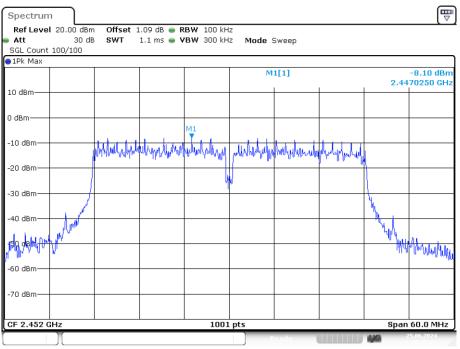
Date: 25.JUN.2024 19:40:09



Channel 6: 2.437GHz



Channel 9:2.452 GHz



Date: 25.JUN.2024 19:47:12



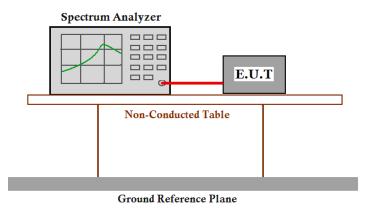
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Report No.: D240820001

5.6 Conducted Spurious Emissions

Test Requirement:	FCC Part 15 C section 15.247
	(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating. The radio frequency power that is produced by the intentional radiator shall be at least 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. Provided the transmitter demonstrates compliance with the averaging conducted power limits.
Test Method:	ANSI C63.10:2013
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channel and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
- Set the spectrum analyzer: RBW=100 KHz, VBW = 300KHz. Sweep = auto; Detector Function = Peak. Trace = Max Hold, Scan up through 10th harmonic.
- 3. Measure the Conducted Spurious Emissions of the test frequency with special test status.
- 4. Repeat until all the test status is investigated.
- 5. Report the worst case.



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Result plot as follows:

802.11b

Channel 1: 2.412 GHz ඐ Spectrum Ref Level 15.00 dBm Offset 1.11 dB 👄 RBW 100 kHz 25 dB Att SWT 265 ms 👄 VBW 300 kHz Mode Sweep SGL Count 10/10 ⊖1Pk Max M1[1] 2.06 dBn 10 dBm· 2.4230 GHz -37.62 dBn M2[1] 0 dBm 4.8211 GHz -10 dBm -20 dBm -28.186 -30 dBm· M2 -40 dBm -50 dBn Mar 114 M5 -60 dBm phone the company to be Jun -70 dBm -80 dBm Start 30.0 MHz 1001 pts Stop 26.5 GHz Marker Type | Ref | Trc X-value Y-value Function Function Result 2.423 GHz 4.8211 GHz 2.06 dBm -37.62 dBm M1 M2 1 МЗ 4.8211 GHz 7.2034 GHz -37.62 dBm -62.65 dBm M4 1 M5 9.7974 GHz -61.68 dBm L)(I Date: 25.JUN.2024 19:01:16 Channel 6: 2.437GHz

ඐ Spectrum Ref Level 15.00 dBm Offset 1.12 dB 👄 RBW 100 kHz 25 dB 265 ms 😑 VBW 300 kHz Att SWT Mode Sweep SGL Count 10/10 1Pk Max 1.02 dBm 2.4500 GHz M1[1] 10 dBm M2[1] -37.79 dBn 0 dBm 4.8740 GH -10 dBm--20 dBm D1 -28.135 -30 dBm dBm 12 ▼ -40 dBm -50 dBm www.ma M5 -60 dBm Un and Hall s. -70 dBm -80 dBm Start 30.0 MHz 1001 pts Stop 26.5 GHz Marker Type Ref Trc X-value Y-value Function Function Result 2.45 GHz 4.874 GHz 1.02 dBm -37.79 dBm M1 M2 1 4.874 GHz 7.2828 GHz -37.79 dBm МЗ 1 M4 1 -61.86 dBm M5 1 9.8239 GHz -62.36 dBm

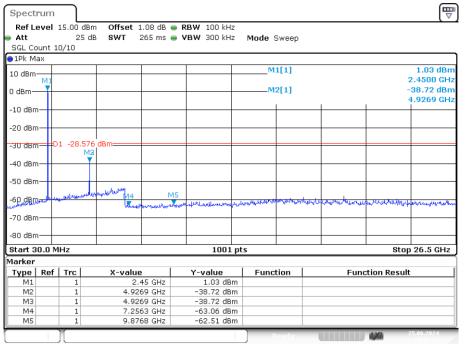
Date: 25.JUN.2024 19:04:54

Note: This line in the plots is a reference line for the 30dB down limit, not the limit.



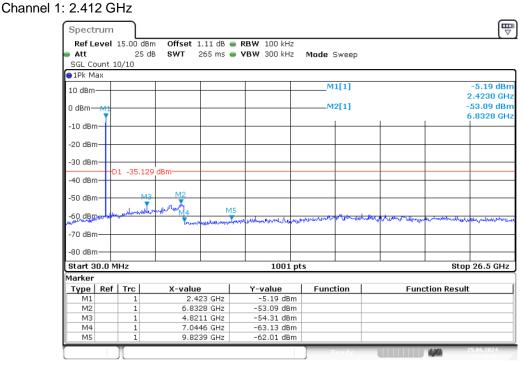
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Channel 11: 2.462 GHz



Date: 25.JUN.2024 19:16:17

802.11g



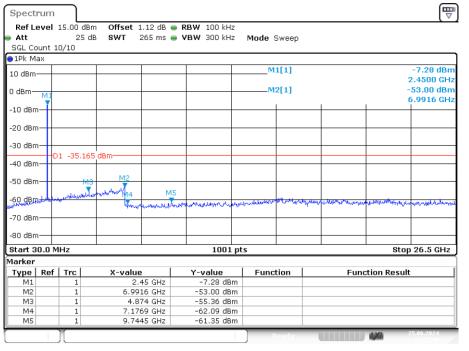
Date: 25.JUN.2024 19:19:56

Note: This line in the plots is a reference line for the 30dB down limit, not the limit.

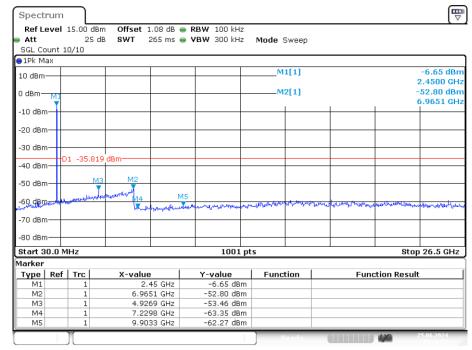


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Channel 6: 2.437GHz



Date: 25.JUN.2024 19:23:00



Channel 11: 2.462 GHz

Date: 25.JUN.2024 19:26:15

Note: This line in the plots is a reference line for the 30dB down limit, not the limit.



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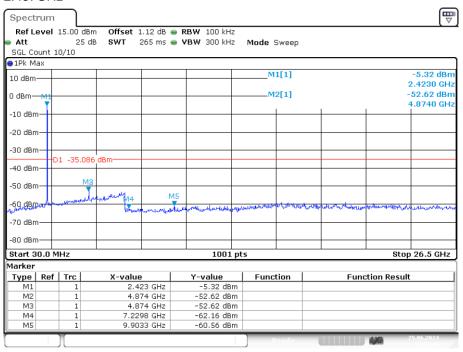
802.11n (HT20)

Channel 1: 2.412 GHz

Spectrum							
Ref Level Att			_	RBW 100 kHz VBW 300 kHz			
SGL Count 1		ub Swi	205 ms 👅	YDW 300 KH2	Mode Sweep		
1Pk Max	0/10						
10 dBm					M1[1]		-4.75 dBn
							2.4230 GH
0 dBm <u>M1</u>				-	M2[1]		-53.95 dBn
I I I					1		6.9916 GH
-10 dBm							
-20 dBm							
-30 dBm							
	1 -35.0)73 dBm					
-40 dBm							
-50 dBm		43 M2					
		Linder Mar 14	M5				
-69 dBmarl	H-to-atte	Ulm	monitor	المرد المالي ومداول المالي ومالي المدول	way have been and when	and a subar and all	where we will have a with the second
-70 dBm							
-80 dBm							
Start 30.0 M	IHz			1001 pt	5	I	Stop 26.5 GHz
1arker							
Type Ref	Trc	X-value		Y-value	Function	Func	tion Result
M1	1		23 GHz	-4.75 dBm			
M2	1		16 GHz	-53.95 dBm			
M3 M4	1		11 GHz 63 GHz	-54.27 dBm -61.21 dBm			
M4 M5	1		27 GHz	-62.62 dBm			
		5.00		52.02 dbm		1	

Date: 25.JUN.2024 19:29:55

Channel 6: 2.437GHz



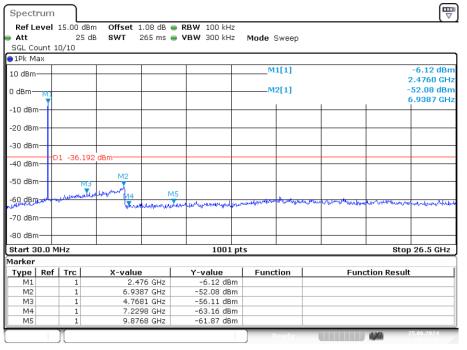
Date: 25.JUN.2024 19:32:41

Note: This line in the plots is a reference line for the 30dB down limit, not the limit.



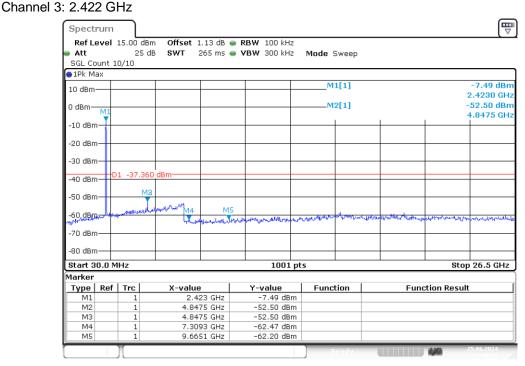
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Channel 11: 2.462 GHz



Date: 25.JUN.2024 19:36:47

802.11n (HT40)

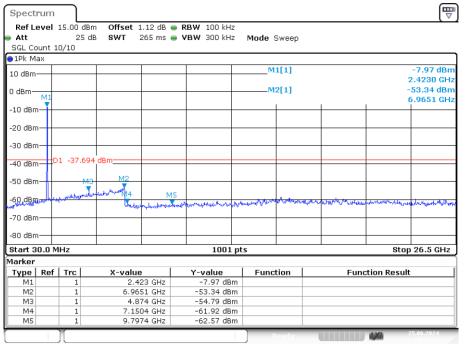


Date: 25.JUN.2024 19:40:57

Note: This line in the plots is a reference line for the 30dB down limit, not the limit.



Channel 6: 2.437GHz



Date: 25.JUN.2024 19:44:31

Channel 9: 2.452 GHz

₽ Spectrum Ref Level 15.00 dBm Offset 1.09 dB 👄 RBW 100 kHz 265 ms 👄 **VBW** 300 kHz Att 25 dB SWT Mode Sweep SGL Count 10/10 ⊖1Pk Max M1[1] -8.40 dBn 10 dBm 2.4500 GHz _M2[1] -53.16 dBn 0 dBmм 6.9122 GHz -10 dBm--20 dBm -30 dBm-D1 -37.878 -40 dBm dBm -50 dBm ~~ M<u>4</u> M5 -60 dBm -X. Lond Laborer فيدليه -70 dBm -80 dBm-Start 30.0 MHz 1001 pts Stop 26.5 GHz Marker
 Type
 Ref
 Trc

 M1
 1

 M2
 1
 Function Result Function X-value Y-value 2.45 GHz 6.9122 GHz 4.9005 GHz -8.40 dBm -53.16 dBm ΜЗ -55.13 dBm 7.4416 GHz 9.8768 GHz -62.90 dBm -62.46 dBm M4 1 M5 1

Date: 25.JUN.2024 19:48:04

Note: This line in the plots is a reference line for the 30dB down limit, not the limit.

The unit does meet the FCC requirements.



5.7 Radiated Spurious Emissions

Test Requirement:	FCC Part 15 C section 15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating. The radio frequency power that is produced by the intentional radiator shall be at least 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, and provided the transmitter demonstrates compliance with the peak conducted power limits.
Test Method: Test Status:	ANSI C63.10:2013 Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Detector: For PK value:	
	RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for $f < 1$ GHz VBW \ge RBW Sweep = auto
	Detector function = peak
	Trace = max hold
	For AV value:
	RBW = 1 MHz for f \ge 1 GHz, 100 kHz for f <1 GHz, 9 kHz for <30 MHz
	VBW =10Hz
	Sweep = auto
	Detector function = peak
	Trace = max hold
15.209 Limit:	40.0 dBµV/m between 30 MHz & 88MHz
	43.5 dBµV/m between 88MHz & 216MHz
	46.0 dBµV/m between 216MHz & 960MHz
	54.0 dBµV/m above 960MHz

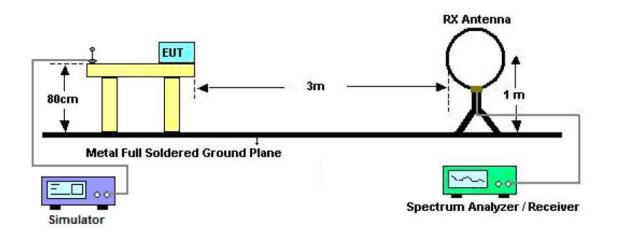


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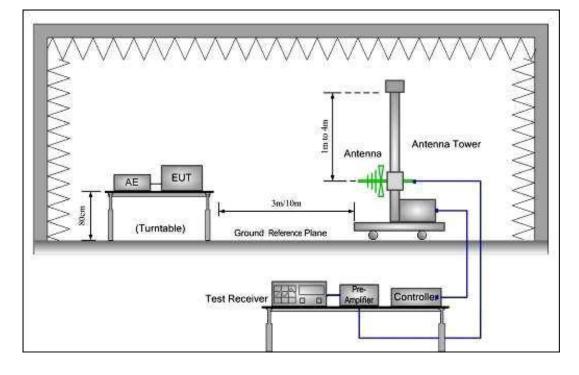
Report No.: D240820001

Test Configuration:

1) 9 kHz to 30 MHz emissions:

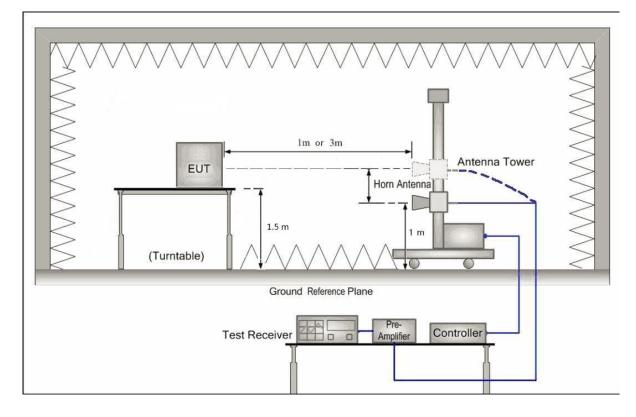


2) 30 MHz to 1 GHz emissions:





3) 1 GHz to 40 GHz emissions:



- **Test Procedure: (1)** The receiver was scanned from 0.009MHz to 25GHz.When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only. The worst case emissions were reported.
 - (2) Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.
 - (3) Pre-test under all modes below 1GHz; choose the worst case mode record On the report.



5.7.1 Harmonic and other spurious emissions

Worst case mode 802.11b

9 kHz~30 MHz Test result

The Low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which

was 20dB lower than the limit line per 15.31(o) was not report

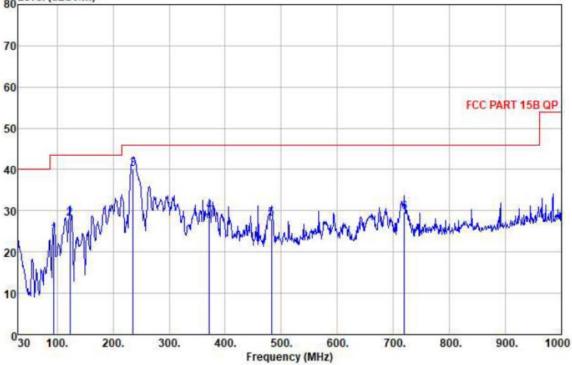
30 MHz~1 GHz Spurious Emissions .Quasi-Peak Measurement

Horizontal:

Peak scan

Level (dBµV/m)





Quasi-peak measurement

No.	Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBuV/m	Limit Line dBuV/	Over Limit m dB	Pol/Phase	Remark
3 4	94.020 123.120 235.640 371.440 482.990		7.84 9.14 12.19 14.96 16.37	1.87 2.35	27.37 27.25 26.78 27.19 27.91	24.18 28.12 40.06 29.80 28.14	43.50 46.00 46.00	-19.32 -15.38 -5.94 -16.20 -17.86	HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL	QP QP QP
	719.670	34.21	19.90	3. 37	27.92	29.56		-16.44	HORIZONTAL	

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

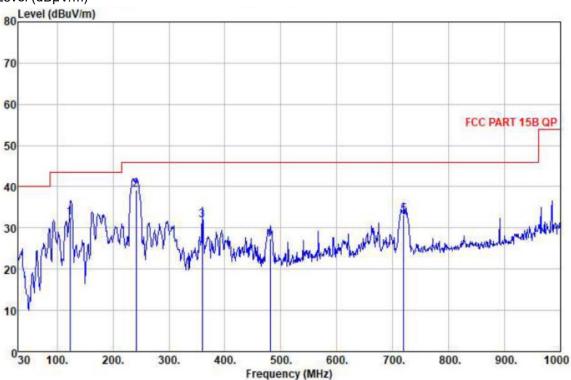


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Vertical:

Peak scan

Level (dBµV/m)



Quasi-peak measurement

No.	Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBuV/m	Limit Line dBuV/	Over Limit m dB	Pol/Phase	Remark
1	123.120	49.43	9.14	1.32	27.25	32.64	13.50	-10.86	VERTICAL	QP
2	241.460	51.48	12.56	1.89	26.76	39.17	46.00	-6.83	VERTICAL	QP
3	359.800	42.18	14.49	2.31	27.10	31.88	46.00	-14.12	VERTICAL	QP
4	481.050	36.26	16.33	2.72	27.89	27.42	46.00	-18.58	VERTICAL	QP
5	719.670	37.75	19.90	3.37	27.92	33.10	46.00	-12.90	VERTICAL	QP

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



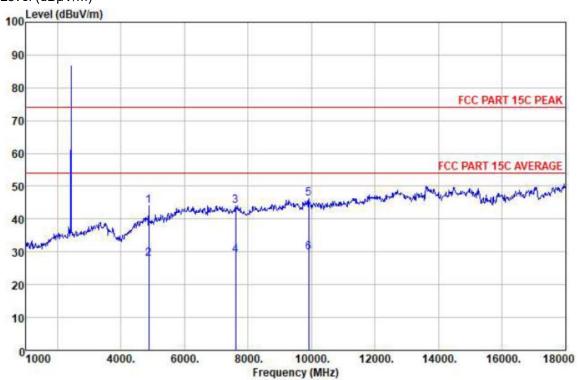
5.7.2 Spurious emissions above 1GHz

Test at Channel 1 (2.412 GHz) in transmitting status

Horizontal:

Peak scan

Level (dBµV/m)



Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Pol/Phase	Remark
4876.000	28.66	33.40		27.61	44.11	74.00		HORIZONTAL	
4876.000	12.34	33.40	9.66	27.61	27.79	54.00	-26.21	HORIZONTAL	Average
7613.000	21.62	37.15	12.53	27.32	43.98	74.00	-30.02	HORIZONTAL	Peak
7613.000				27.32	28.84	54.00	-25.16	HORIZONTAL	Average
9908.000	19.87	38.96	14.57	27.11	46.29	74.00	-27.71	HORIZONTAL	Peak
9908.000	3.43	38.96	14.57	27.11	29.85	54.00	-24.15	HORIZONTAL	Average

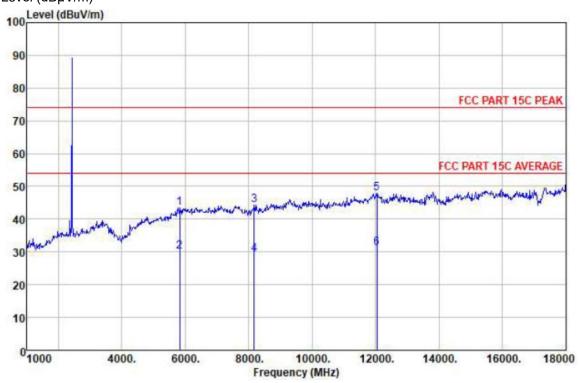


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Vertical:

Peak scan

Level (dBµV/m)



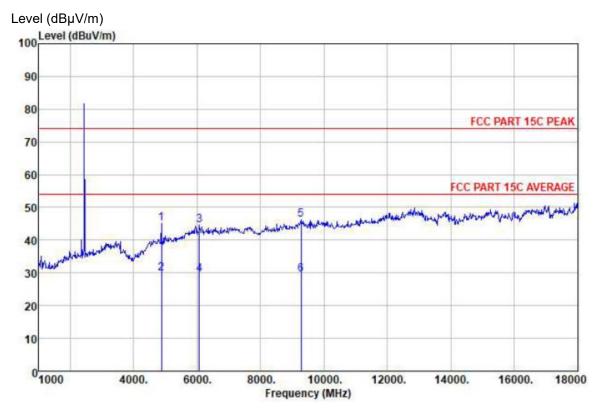
Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBuV/m	Limit Line dBuV/s	Over Limit m dB	Pol/Phase	Remark
5828.000	25.03	35.28	10.71	27.44	43.58	74.00	-30.42	VERTICAL	Peak
5828.000	11.40	35.28	10.71	27.44	29.95	54.00	-24.05	VERTICAL	Average
S174.000	21.31	37.28	13.08	27.28	44.39	74.00	-29.61	VERTICAL	Peak
\$174.000	6.23	37.28	13.08	27.28	29.31	54.00	-24.69	VERTICAL	Average
12033.000	18.68	39.59	16.39	26.83	47.83	74.00	-26.17	VERTICAL	Peak
12033.000	2.04	39.59	16.39	26.83	31.19	54.00	-22.81	VERTICAL	Average



Test at Channel 6 (2.437 GHz) in transmitting status

Horizontal:

Peak scan



Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Pol/Phase	Remark
1876.000	29.64	33.40	9.66	27.61	45.09	74.00	-28.91	HORIZONTAL	Peak
4876.000	14.34	33.40	9.66	27.61	29.79	54.00	-24.21	HORIZONTAL	Average
6066.000	25.21	35.93	10.97	27.41	44.70	74.00	-29.30	HORIZONTAL	Peak
6066.000	10.03	35.93	10.97	27.41	29.52	54.00	-24.48	HORIZONTAL	Average
9279.000	20.44	38.80	14.14	27.18	16.20	74.00	-27.80	HORIZONTAL	Peak
9279.000	3.86	38.80	14.14	27.18	29.62	54.00	-24.38	HORIZONTAL	Average

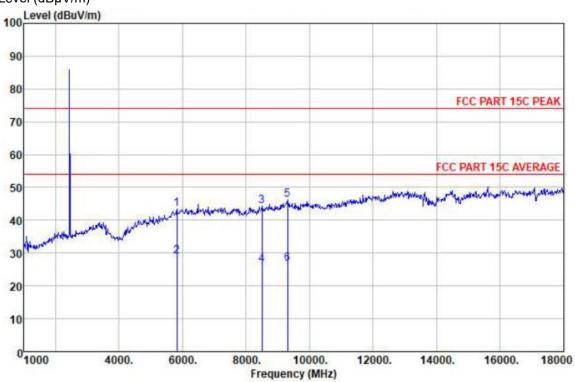


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Vertical:

Peak scan

Level (dBµV/m)



Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBuV/m	Limit Line dBuV/r	Over Limit m dB	Pol/Phase	Remark
5828.000 5828.000	25.00			27.44	43.55 28.83		-30.45	VERTICAL VERTICAL	Peak
\$497.000	20.30	37.80	13.40	27.25	44.25	74.00	-29.75	VERTICAL	Peak
8197.000	2.59	37.80	13.40	27.25	26, 54	54.00	-27.46	VERTICAL	Average
9313.000 9313.000	20.31 0.83	Extension Transition	14.17 14.17	27.17 27.17	46.11 26.63		-27.89 -27.37	VERTICAL VERTICAL	Peak Average

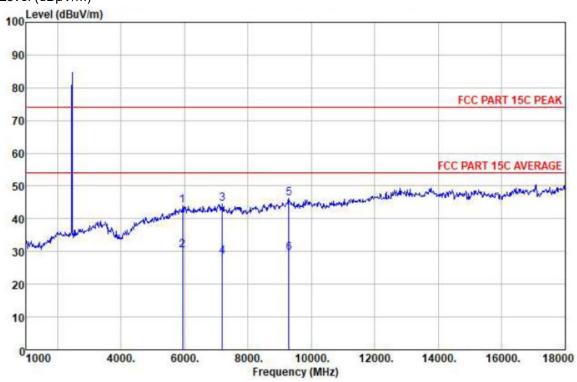


Test at Channel 11 (2.462 GHz) in transmitting status

Horizontal:

Peak scan

Level (dBµV/m)



Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB		Limit Line dBuV/m	Over Limit dB	Pol/Phase	Remark
5947.000	24.72	35.78	10.84	27.43	43.91	74.00	-30.09	HORIZONTAL	Peak
5917.000	11.16	35.78	10.84	27.43	30.35	54.00	-23.65	HORIZONTAL	Average
7188.000	23.13	36.70	12.11	27.33	44.61	74.00	-29.39	HORIZONTAL	Peak
7188.000	6.89	36.70	12.11	27.33	28.37	54.00	-25.63	HORIZONTAL	Average
9296.000	20.54	38.80	11.16	27.17	46.33	74.00	-27.67	HORIZONTAL	Peak
9296.000	3.84	38.80	14.16	27.17	29.63	54.00	-24.37	HORIZONTAL	Average

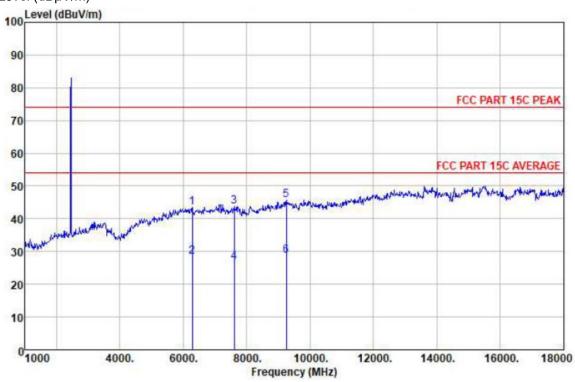


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Vertical:

Peak scan

Level (dBµV/m)



Freq	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBuV/m	Limit Line dBuV/r	Over Limit m dB	Pol/Phase	Remark
6287.000 6287.000 7613.000 7613.000 9245.000 9245.000	23.97 8.80 21.33 4.48 19.84 2.89	35.71 37.15 37.15 38.80	11.20 12.53 12.53	27.39 27.39 27.32 27.32 27.18 27.18	43.49 28.32 43.69 26.84 45.57 28.62	74.00 54.00 74.00	-30.51 -25.68 -30.31 -27.16 -28.43 -25.38	VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL	Peak Average Peak Average Peak Average



The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Correct= Antenna Factor + Cable Factor - Preamplifier Factor,

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), the amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

Remark:

- 1). For this intentional radiator operates below 25 GHz. The spectrum shall be investigated to the tenth harmonics of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 3rd harmonic.
- 2). As shown in Section, for frequencies above 1000 MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 3). The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.

Test result: The unit does meet the FCC requirements.



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5.8 Radiated Emissions which fall in the restricted bands

Test Requirement:	FCC Part 15 C section 15.247
	(d) In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).
Test Method:	ANSI C63.10:2013
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Limit:	40.0 dBµV/m between 30 MHz & 88MHz;
	43.5 dBµV/m between 88MHz & 216MHz;
	46.0 dBµV/m between 216MHz & 960MHz;
	54.0 dBµV/m above 960MHz.
Detector:	For PK value:
	RBW = 1 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz VBW ≥ RBW Sweep = auto
	Detector function = peak
	Trace = max hold
	For AV value:
	RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for $f < 1$ GHz
	VBW =10Hz
	Sweep = auto
	Detector function = peak
	Trace = max hold



Section 15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section. Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	
13.36 - 13.41	322 - 335.4		



Test Result:

Pre-test under all modes; choose the worst case mode record on the report.

Worst case mode: 802.11b

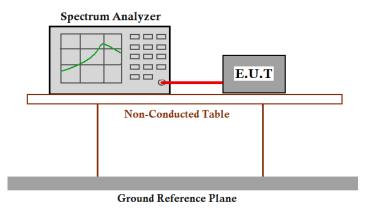
Frequency (MHz)	Reading Level (dBµV/m)	Correct (dB/m)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna polarization	Detector
Low Channel							
2310.000	32.84	6.54	39.38	74.00	-34.62	Н	PK
2310.000	18.16	6.54	24.70	54.00	-29.30	Н	AV
2390.000	32.75	6.61	39.36	74.00	-34.64	V	PK
2390.000	19.18	6.61	25.79	54.00	-28.21	V	AV
High Channel							
2483.500	33.67	6.70	40.37	74.00	-33.63	Н	PK
2483.500	19.88	6.70	26.58	54.00	-27.42	Н	AV
2500.000	32.14	6.72	38.86	74.00	-35.14	V	PK
2500.000	18.48	6.72	25.20	54.00	-28.80	V	AV



5.9 Band Edges Requirement

Test Requirement:	FCC Part 15 C section 15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating. The radio frequency power that is produced by the intentional radiator shall be at least 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. Provided the transmitter demonstrates compliance with the conducted power limits.
Frequency Band:	2400 MHz to 2483.5 MHz
Test Method:	ANSI C63.10:2013
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

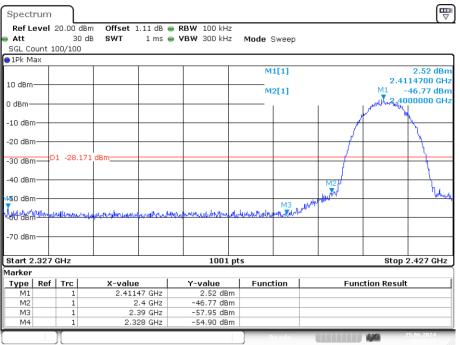
- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
- 2. Set RBW=100 kHz, VBW=300 KHz, suitable frequency span including 1000 kHz bandwidth from band edge.
- 3. Measure the Conducted Spurious Emissions and Radiated Emissions of the test frequency with special test status.
- 4. Repeat until all the test status is investigated.
- 5. Report the worse.



Test result with plots as follows:

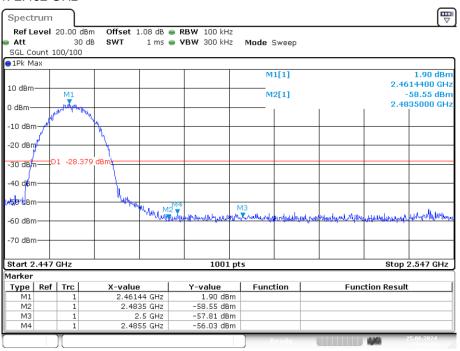
The band edges were measured and recorded Result: Result plot as follows: 802.11b

Channel 1: 2.412 GHz



Date: 25.JUN.2024 19:00:32

Channel 11: 2.462 GHz



Date: 25.JUN.2024 19:15:52

Note: This line in the plots is a reference line for the 30dB down limit, not the limit.

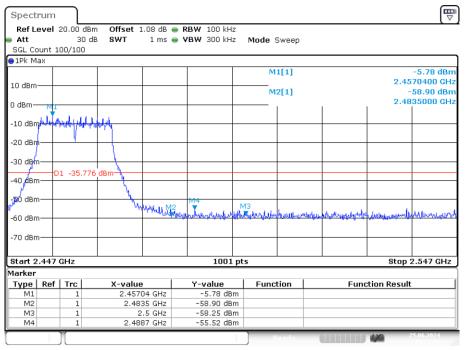


802.11g

Channel 1: 2.412 GHz ₽ Spectrum Ref Level 20.00 dBm Offset 1.11 dB 👄 RBW 100 kHz 30 dB Att SWT 1 ms 👄 **VBW** 300 kHz Mode Sweep SGL Count 100/100 ⊖1Pk Max M1[1] 4.83 dBn 2.4145600 GHz 10 dBm-M2[1] -44.60 dBm 2₄4000000 GHz 0 dBm she mail -10 dBm· -20 dBm -30 dBm· -35.180 dBm -40 dBm -50 dBm M3 WWW.WWW ANANA 460raguy AUA chillionh. -70 dBm Stop 2.427 GHz Start 2.327 GHz 1001 pts Marker Type Ref Trc X-value Y-value Function Function Result 2.41456 GHz M1 -4.83 dBm 1 M2 2.4 GHz -44.60 dBm 2.39 GHz M3 -58.49 dBm 1 M4 2.3639 GHz -56.15 dBm 1

Date: 25.JUN.2024 19:19:31

Channel 11: 2.462 GHz



Date: 25.JUN.2024 19:25:48

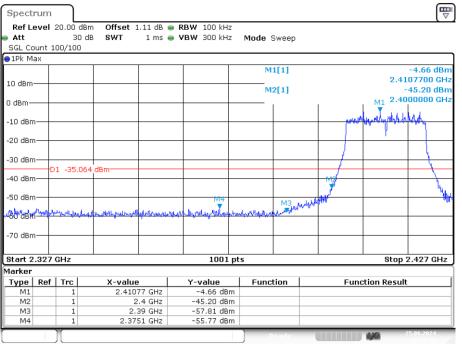
Note: This line in the plots is a reference line for the 30dB down limit, not the limit.



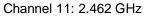
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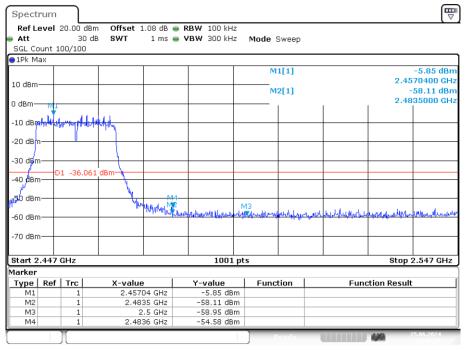
802.11n (HT20)

Channel 1: 2.412 GHz



Date: 25.JUN.2024 19:29:28





Date: 25.JUN.2024 19:36:17

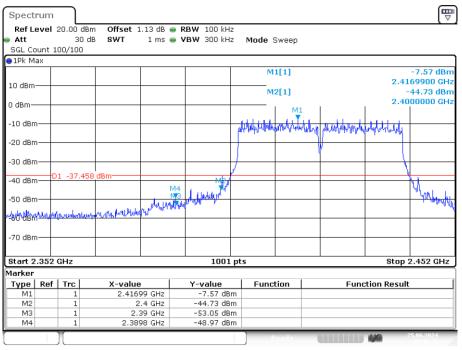
Note: This line in the plots is a reference line for the 30dB down limit, not the limit.



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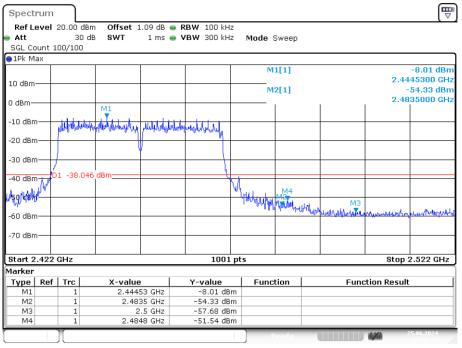
802.11n (HT40)

Channel 3: 2.422 GHz



Date: 25.JUN.2024 19:40:28

Channel 9: 2.452 GHz



Date: 25.JUN.2024 19:47:33

Note: This line in the plots is a reference line for the 30dB down limit, not the limit.

Test result: The unit does meet the FCC requirements.



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5.10 Conducted Emissions at Mains Terminals 150 kHz to 30 MHz

Test Requirement:FCC Part 15 C section 15.207

 Test Voltage:
 120V~ 60Hz

 Test Method:
 ANSI C63.10:2013 Clause 6.2

Frequency Range: 150 kHz to 30 MHz

Detector: Peak for pre-scan (9 kHz Resolution Bandwidth)

Test Limit

Emilie for conducted distandance at the mains ports of blass B						
- Eroquonov Pongo	Class B Limit dB(µV)					
Frequency Range	Quasi-peak	Average				
0.15 to 0.50	66 to 56	56 to 46				
0.50 to 5	56	46				
5 to 30	60	50				
NOTE 1 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.						

Limits for conducted disturbance at the mains ports of class B

EUT Operation:

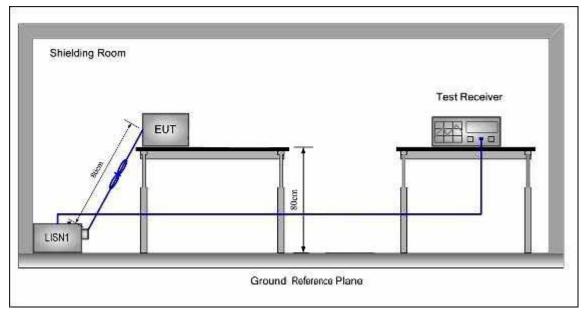
Test in normal operating mode. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture).



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Test procedure:

1. The mains terminal disturbance voltage test was conducted in a shielded room.

2. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu$ H + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.

4. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0,4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0,8 m from the LISN 2.

5.10.1 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected. For EUT the communicating was worst case mode.



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The following Quasi-Peak and Average measurements were performed on the EUT Live Line:

Peak scan

Level (dB µ V/m)

/

/

Quasi-peak and Average measurement



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Neutral Line:

Peak scan Level (dB μ V/m)

/

Quasi-peak and Average measurement

/

-- End of test report --