8.PEAK OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

8.1 APPLIED PROCEDURES/LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

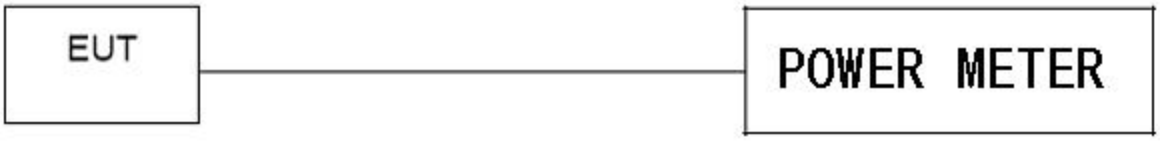
8.2 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.6 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC 120V/60Hz

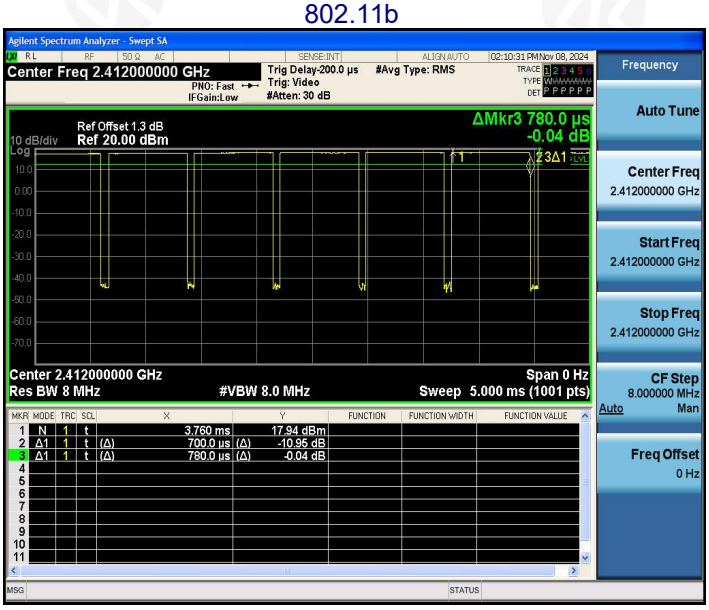
Test CH	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n20	802.11n40		
Lowest	12.85	12.14	12.08	11.49	30.00	Pass
Middle	12.90	12.13	12.03	11.86		
Highest	12.58	11.38	11.34	11.29		

	Frequency (MHz)	Output Power (dBm)	Antenna gain (dBi)	EIRP (dBm)
802.11b	Lowest	12.85	3.4945	16.3445
	Middle	12.90	3.4945	16.3945
	Highest	12.58	3.4945	16.0745
802.11g	Lowest	12.14	3.4945	15.6345
	Middle	12.13	3.4945	15.6245
	Highest	11.38	3.4945	14.8745
802.11n20	Lowest	12.08	3.4945	15.5745
	Middle	12.03	3.4945	15.5245
	Highest	11.34	3.4945	14.8345
802.11n40	Lowest	11.49	3.4945	14.9845
	Middle	11.86	3.4945	15.3545
	Highest	11.29	3.4945	14.7845

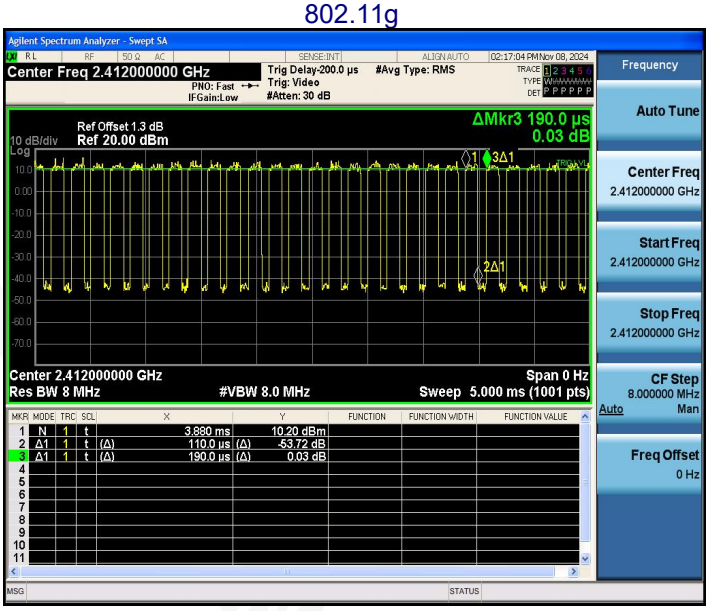
Duty Cycly:

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	0.70	0.78	89.74
11G	Ant1	2412	0.11	0.19	57.89
11N20SISO	Ant1	2412	0.11	0.20	55.00
11N40SISO	Ant1	2422	0.07	0.14	50.00

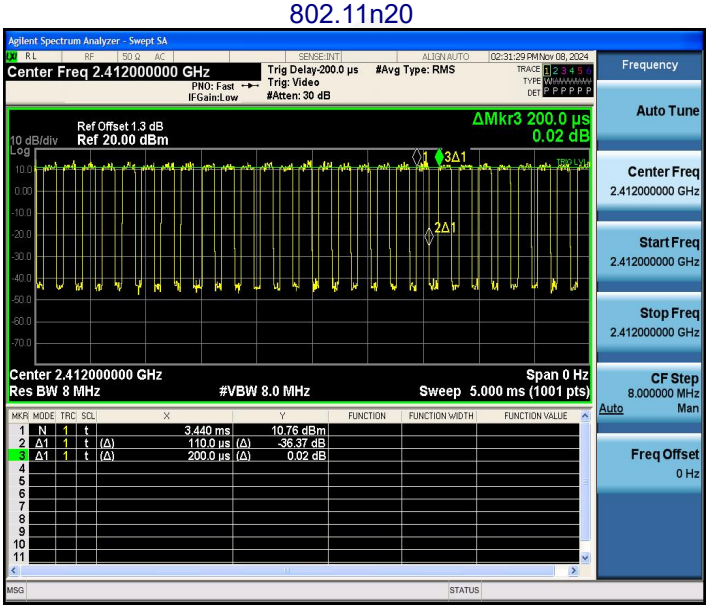
802.11b



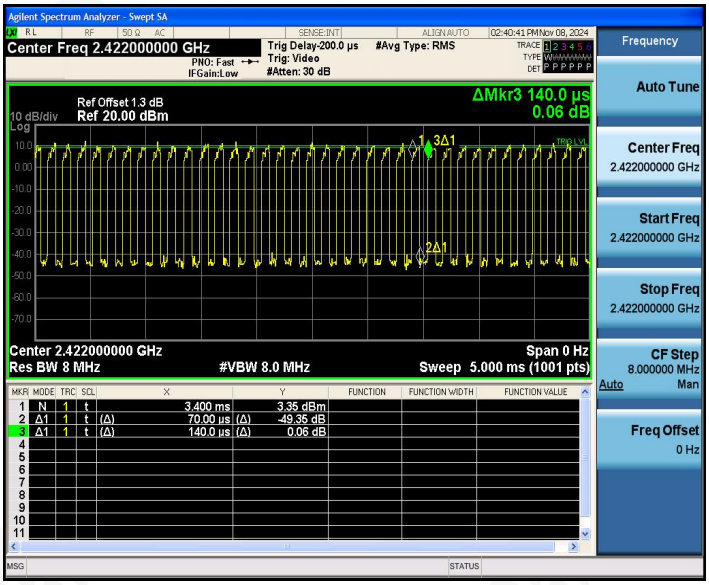
802.11g



802.11n20



802.11n40



9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

9.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in§15.205(a), must also comply with the radiated emission limits specified in15.209(a).

9.2 TEST PROCEDURE

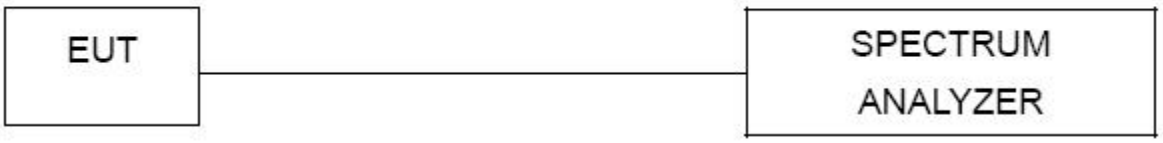
Using the following spectrum analyzer setting:

A) Set the RBW = 100KHz.
B) Set the VBW = 300KHz.
C) Sweep time = auto couple.
D) Detector function = peak.
E) Trace mode = max hold.
F) Allow trace to fully stabilize.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



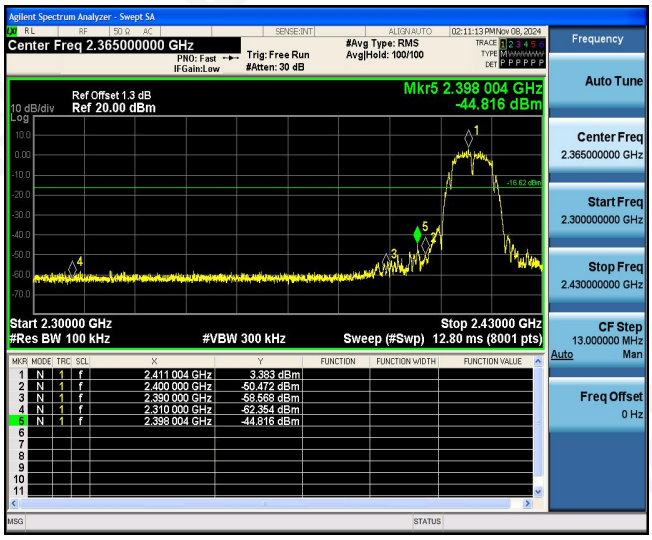
9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

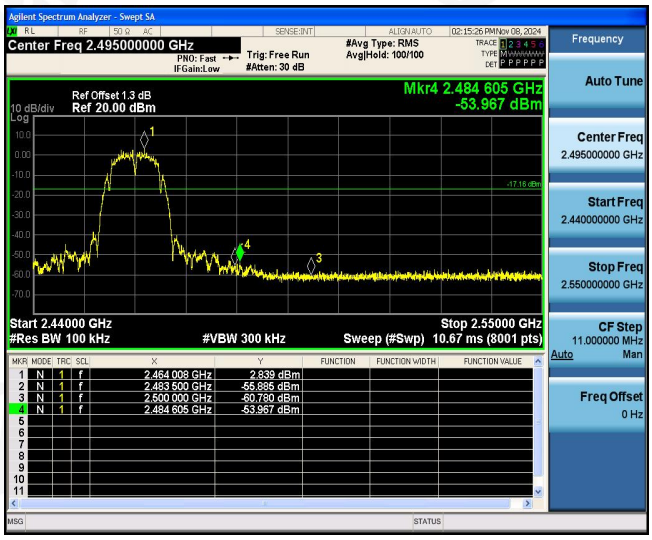
9.6 TEST RESULTS

Test plot as follows:

Test mode:	802.11b

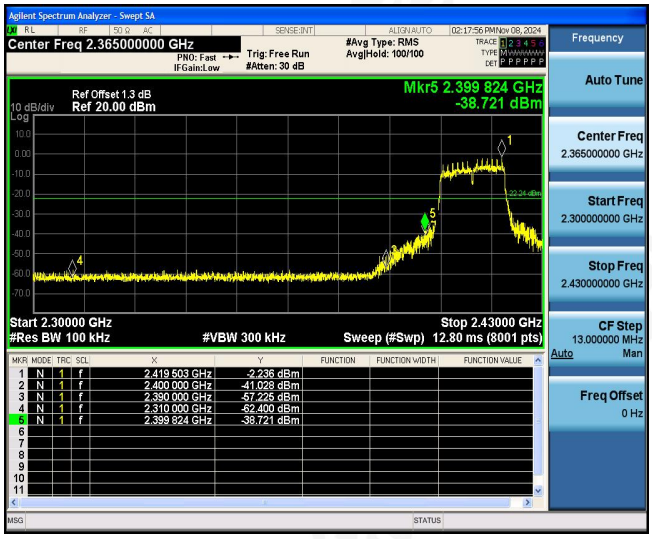


Lowest channel

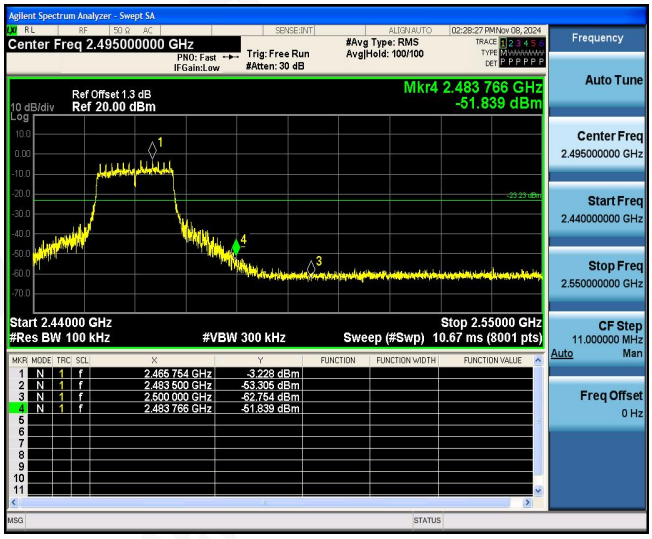


Highest channel

Test mode:	802.11g

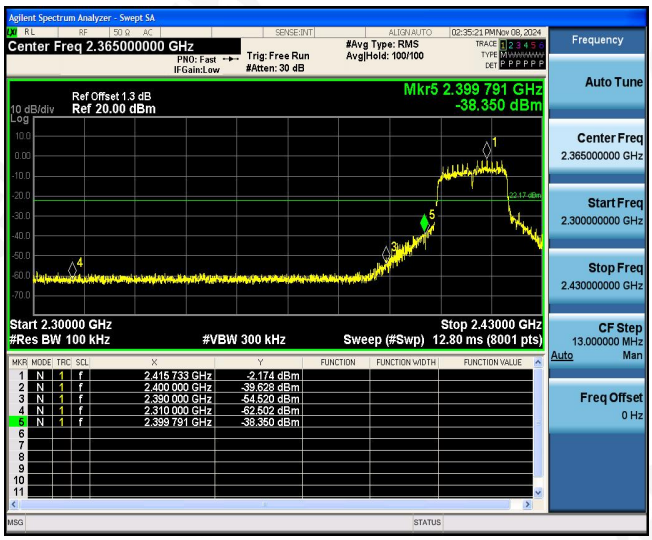


Lowest channel

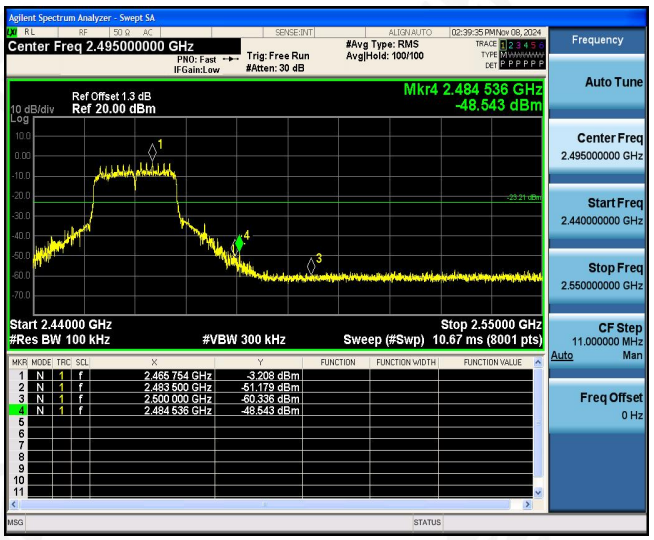


Highest channel

Test mode:	802.11n(HT20)

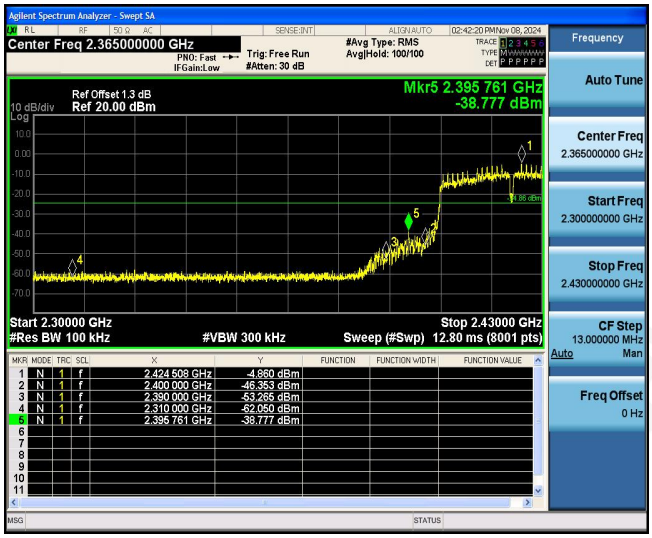


Lowest channel

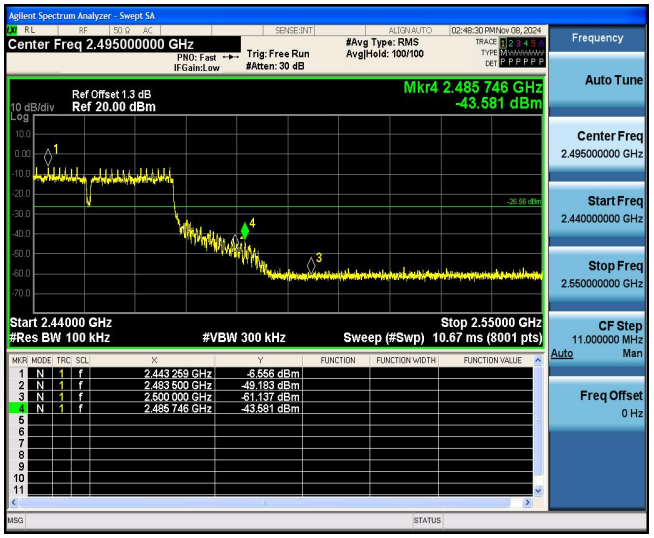


Highest channel

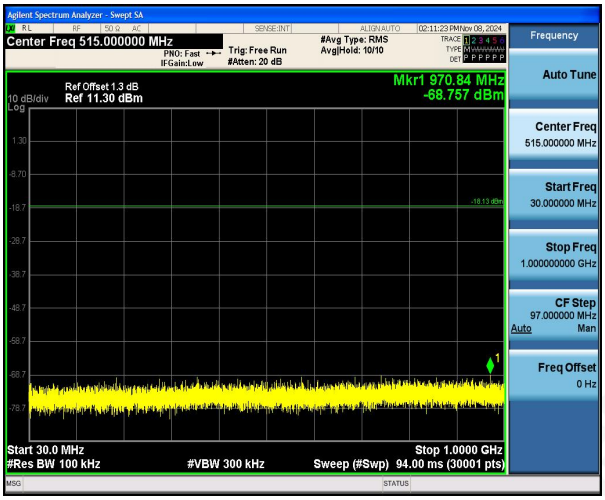
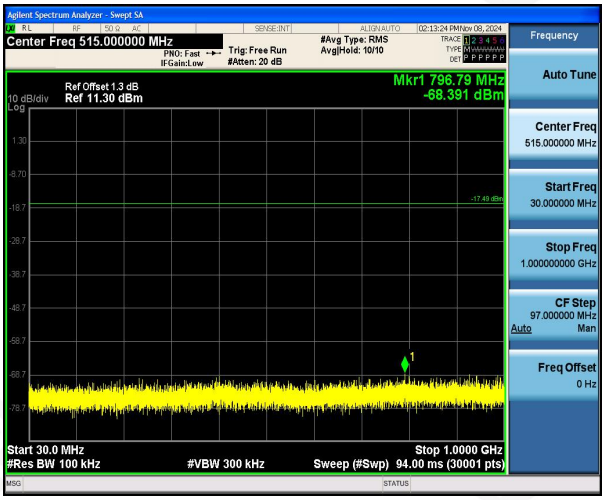
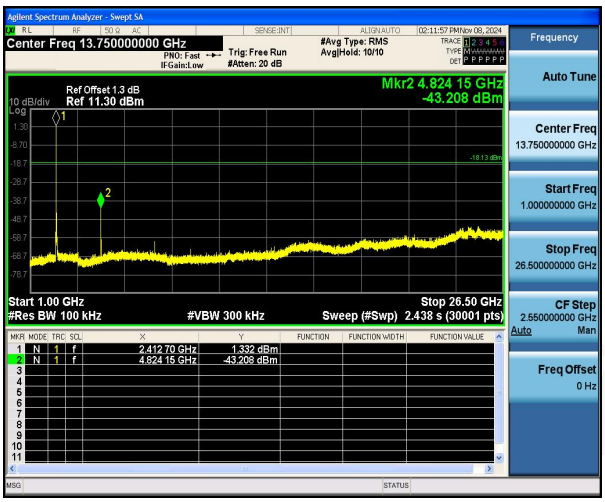
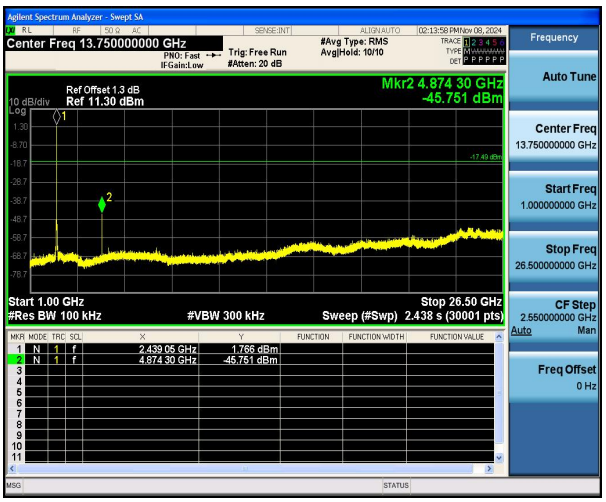
Test mode:	802.11n(HT40)



Lowest channel



Highest channel

Test plot as follows:

802.11b- Lowest channel	802.11b-Middle channel