



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



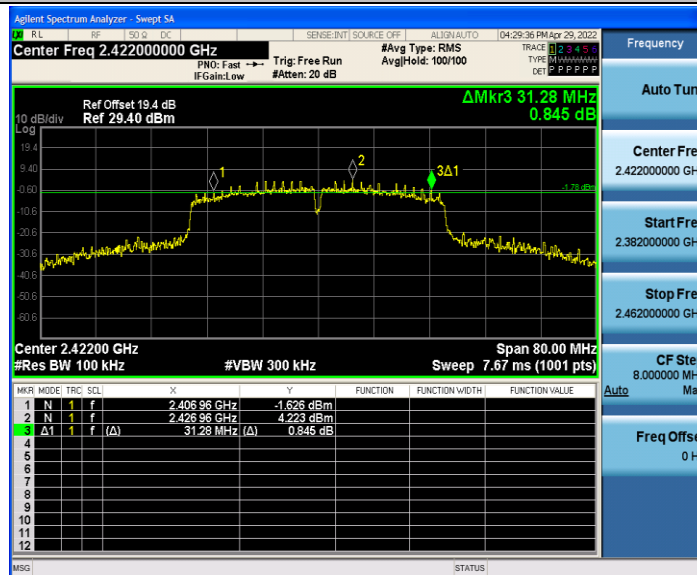
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



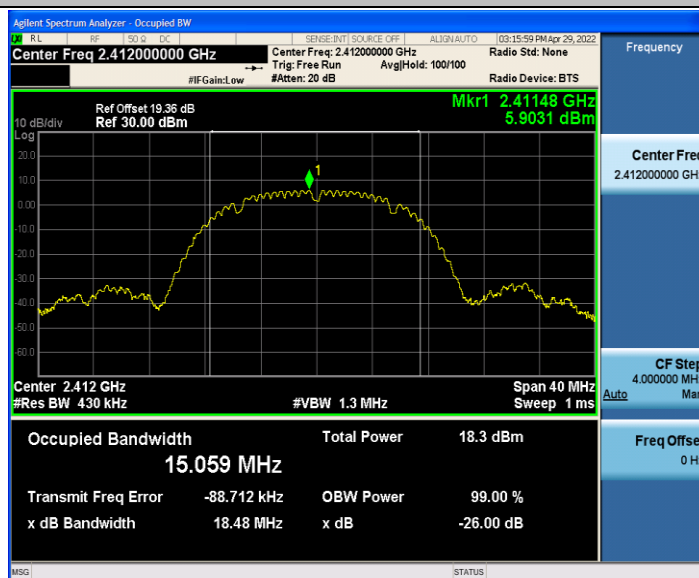
11N40SISO_Ant1_2452



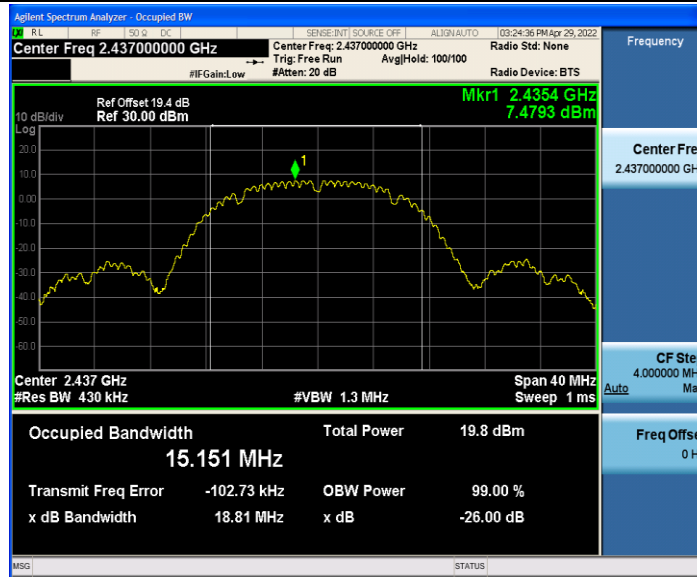
Occupied Channel Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.059	2404.382	2419.441	---	---
		2437	15.151	2429.322	2444.473	---	---
		2462	15.111	2454.339	2469.450	---	---
11G	Ant1	2412	18.524	2403.098	2421.622	---	---
		2437	18.059	2428.281	2446.340	---	---
		2462	18.180	2453.145	2471.325	---	---
11N20SISO	Ant1	2412	18.593	2402.708	2421.301	---	---
		2437	18.850	2427.803	2446.653	---	---
		2462	18.608	2452.721	2471.329	---	---
11N40SISO	Ant1	2422	36.069	2404.044	2440.113	---	---
		2437	35.974	2419.009	2454.983	---	---
		2452	35.984	2434.019	2470.003	---	---

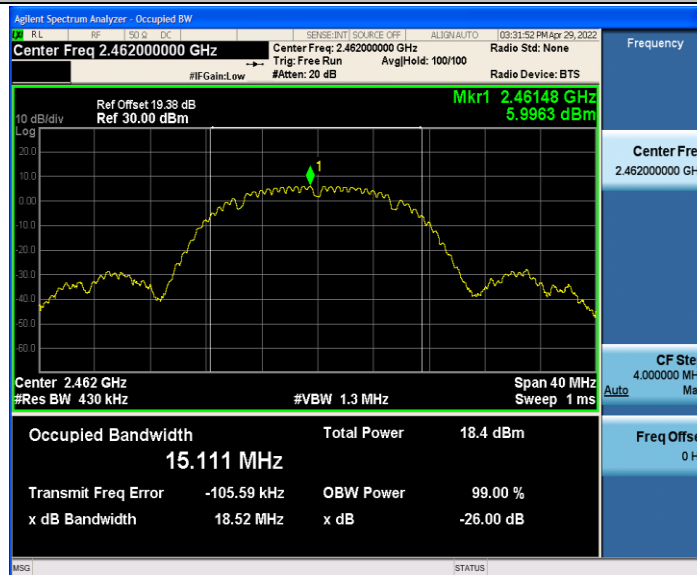
11B_Ant1_2412



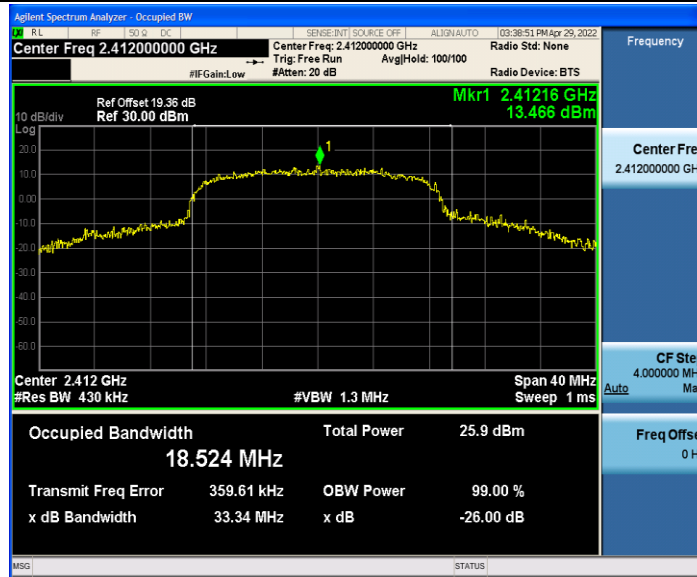
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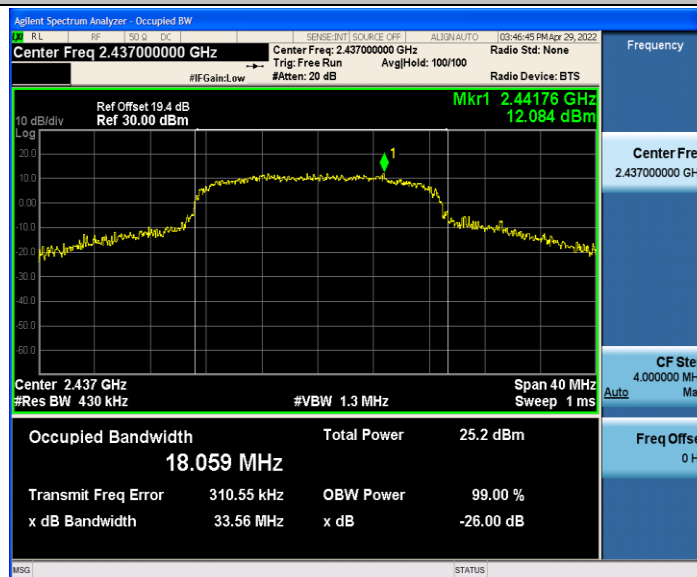
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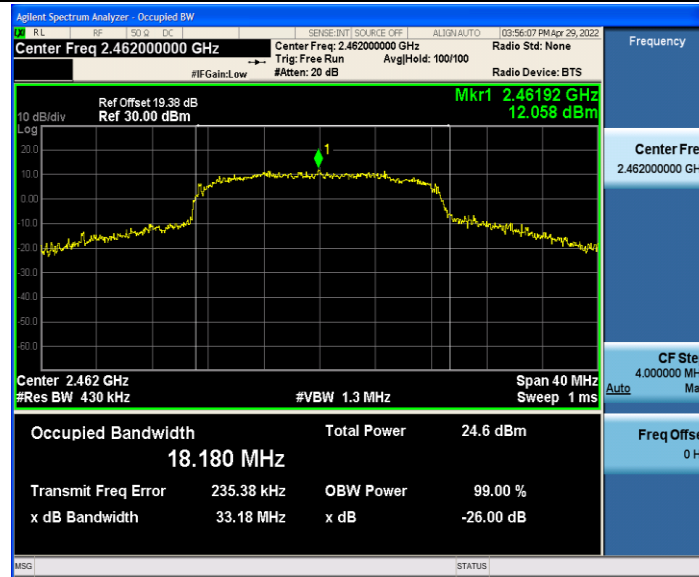
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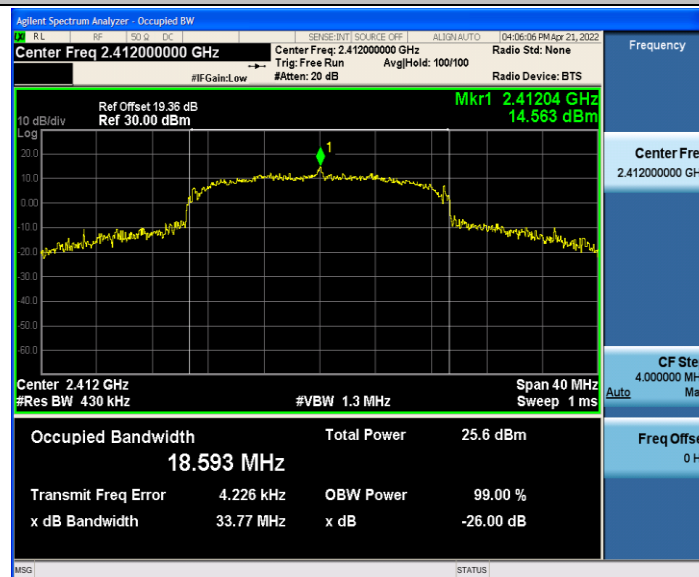
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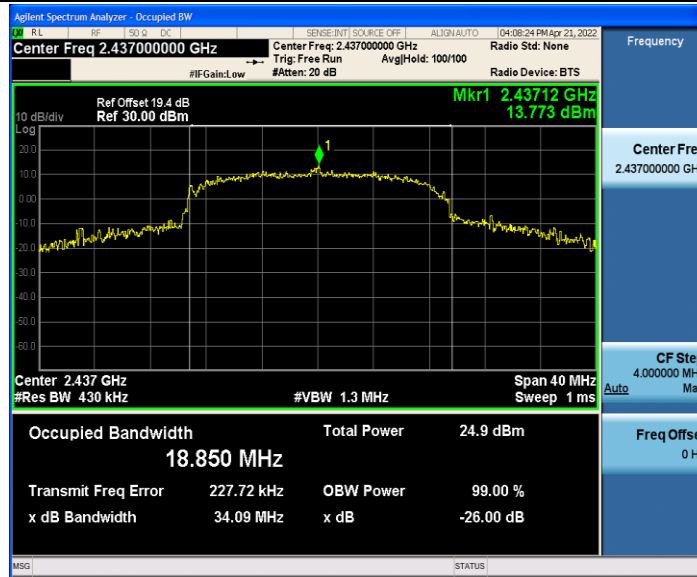
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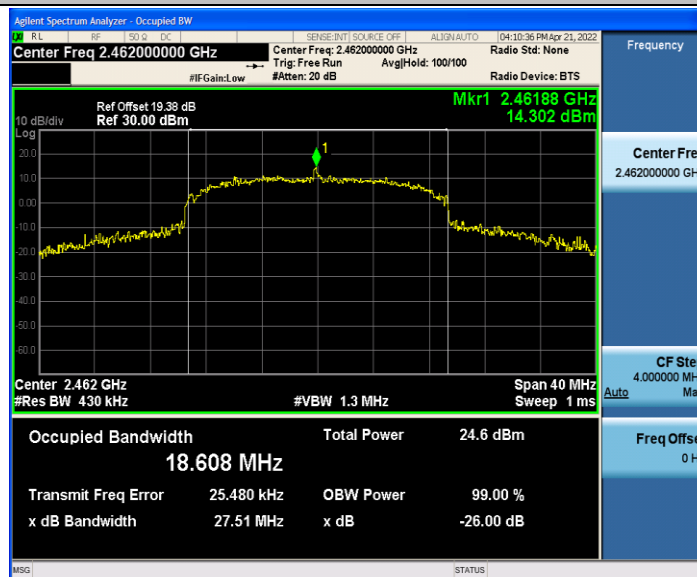
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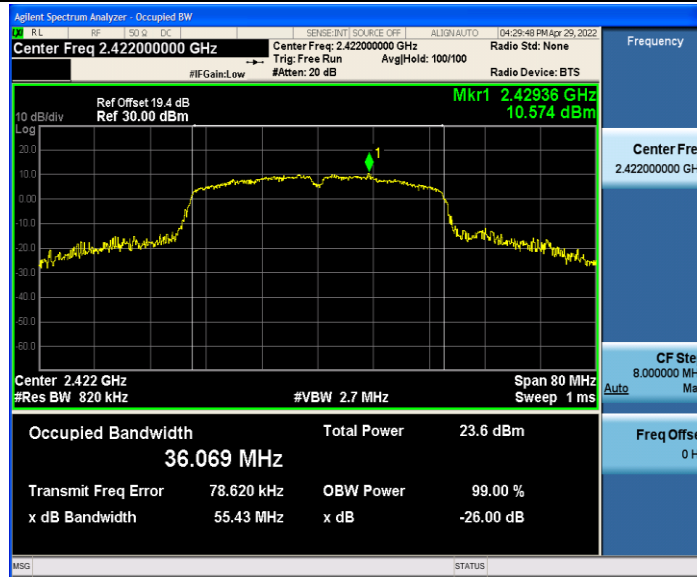
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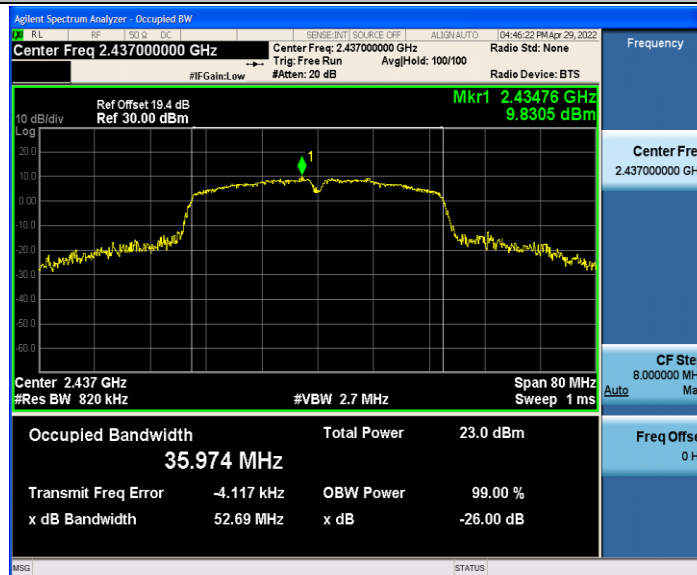
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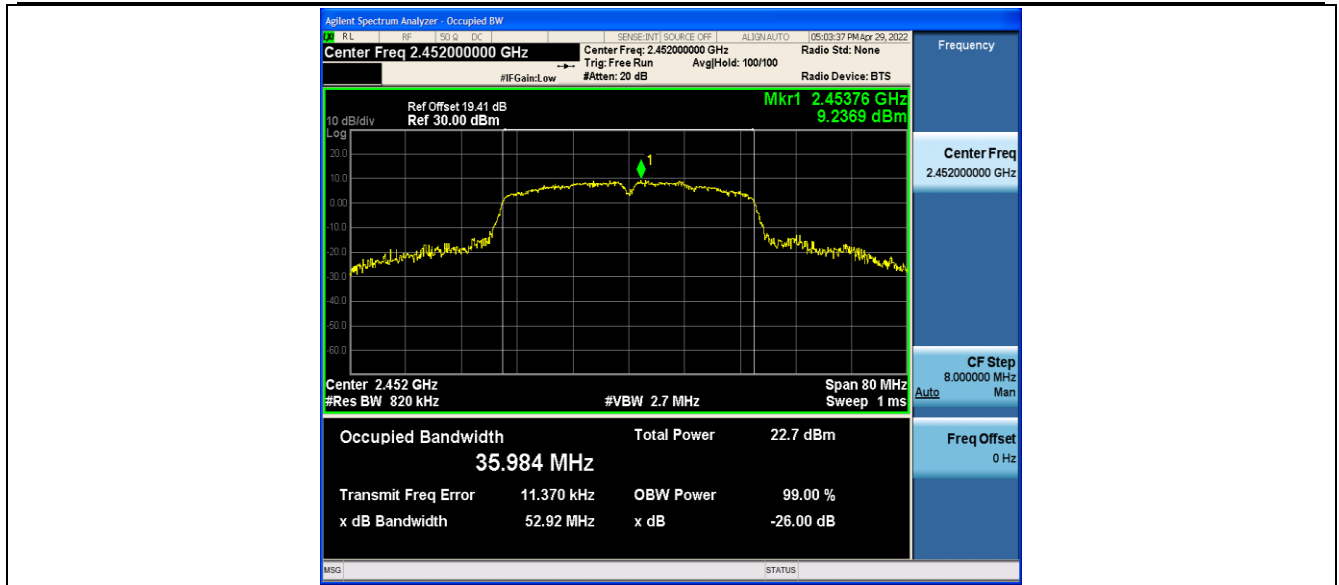
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



3.5 Conducted Output Power

3.5.1 Limit

For systems using digital modulation in the 2400~2483.5MHz, The Maximum output Power shall not exceed 1W(30dBm)

3.5.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Record PC	Lenovo	M4500T	NA
2	Control PC	Lenovo	M4500T	NA

3.5.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

- a) The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b) The maximum output power was performed in accordance with method 11.9.2.3 of ANSI C63.10.

3.5.4 Test Setup



3.5.5 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

For Power Setting value

Test Software Version	Command		
Frequency (MHz)	2412	2442	2472
IEEE 802.11b	15	18	17
IEEE 802.11g	65	65	65
IEEE 802.11n (20MHz)	65	65	65
Frequency (MHz)	2422	2442	2462
IEEE 802.11n (40MHz)	55	55	55

3.5.6 The Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.34	≤30.00	PASS
		2437	16.68	≤30.00	PASS
		2462	15.44	≤30.00	PASS
11G	Ant1	2412	19.39	≤30.00	PASS
		2437	18.86	≤30.00	PASS
		2462	18.28	≤30.00	PASS
11N20SISO	Ant1	2412	19.12	≤30.00	PASS
		2437	18.64	≤30.00	PASS
		2462	18.10	≤30.00	PASS
11N40SISO	Ant1	2422	16.71	≤30.00	PASS
		2437	16.07	≤30.00	PASS
		2452	15.84	≤30.00	PASS

3.6 Power Spectral Density

3.6.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

3.6.2 Test Peripherals

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Type-C Cable	AWM	E101344	0.9m, No Shielding
2	Adaptor	FUSHIGANG	AS1201A-0502000 USU	NA
3	Record PC	Lenovo	M4500T	NA
4	Control PC	Lenovo	M4500T	NA

3.6.3 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

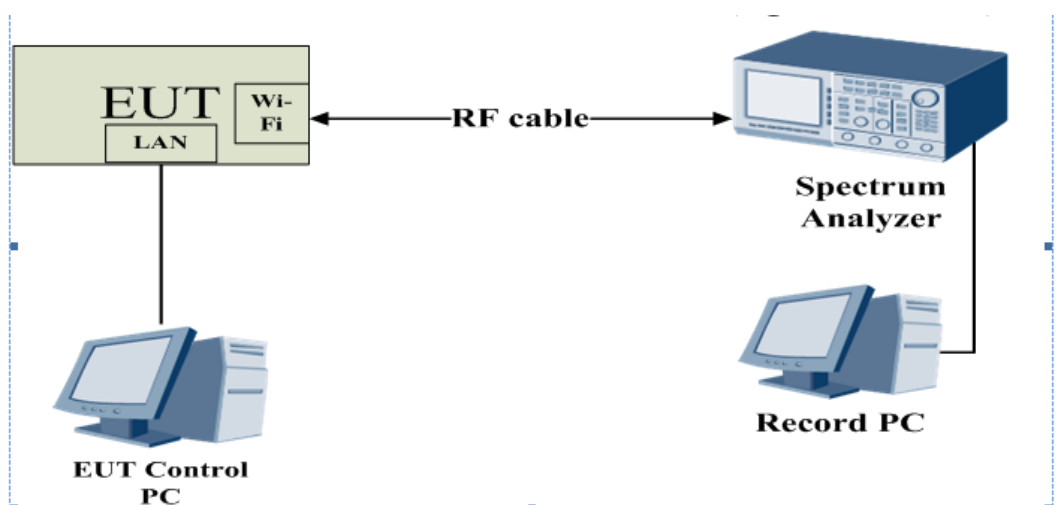
a) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below. Spectrum analyser settings as following:

RBW	3 kHz
VBW	10 kHz
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto

b) Wait for the trace to stabilize. Use the peak marker function to determine the maximum amplitude level within the RBW.

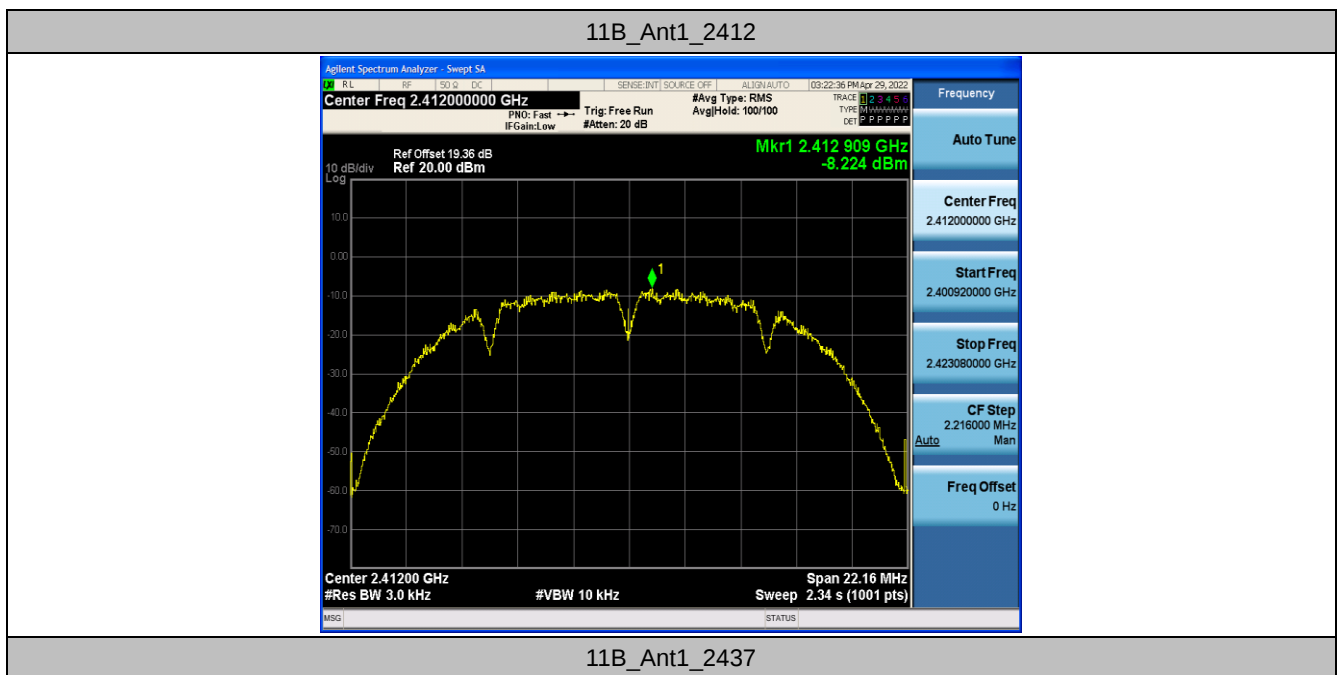
c) The value defined in step b shall be compared to the limits and be recorded .

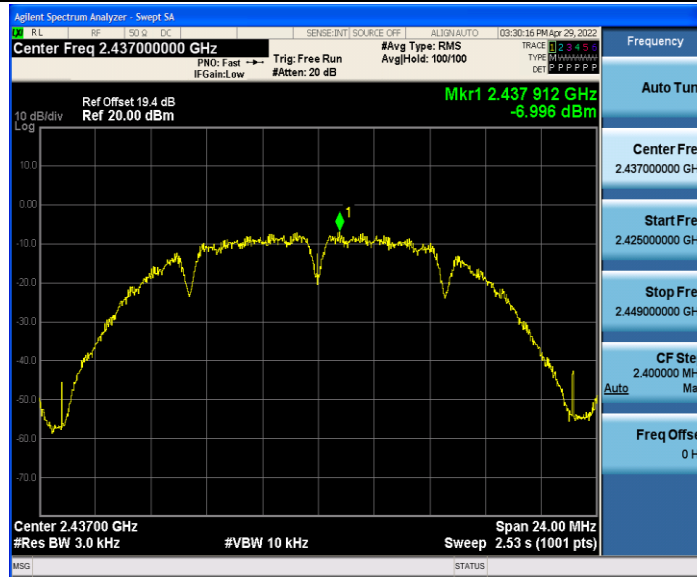
3.6.4 Test Setup



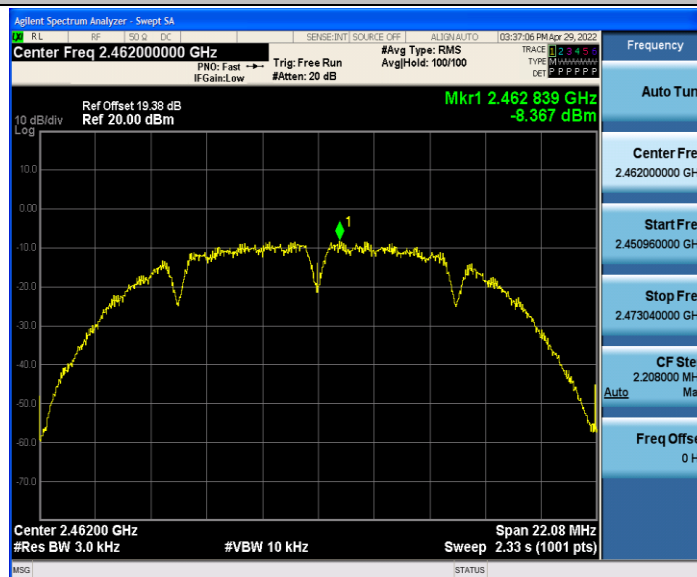
3.6.5 The Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.22	≤8.00	PASS
		2437	-7	≤8.00	PASS
		2462	-8.37	≤8.00	PASS
11G	Ant1	2412	-5.16	≤8.00	PASS
		2437	-5.64	≤8.00	PASS
		2462	-6.13	≤8.00	PASS
11N20SISO	Ant1	2412	-5.62	≤8.00	PASS
		2437	-5.4	≤8.00	PASS
		2462	-5.78	≤8.00	PASS
11N40SISO	Ant1	2422	-10.46	≤8.00	PASS
		2437	-10.85	≤8.00	PASS
		2452	-11.16	≤8.00	PASS

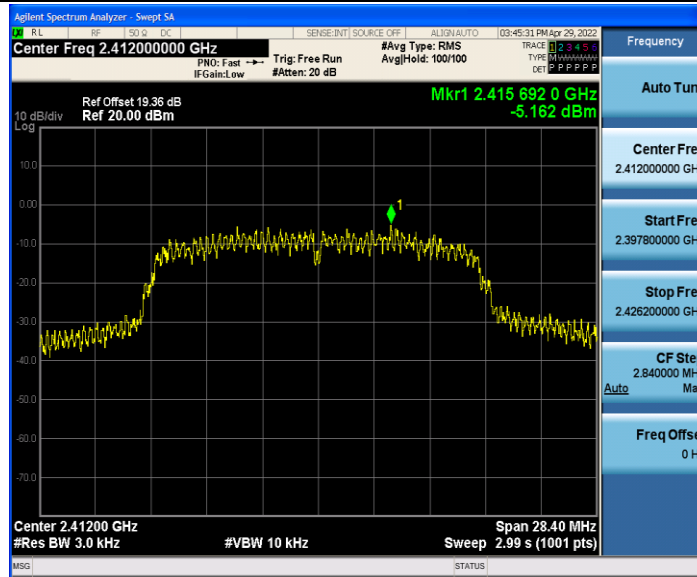




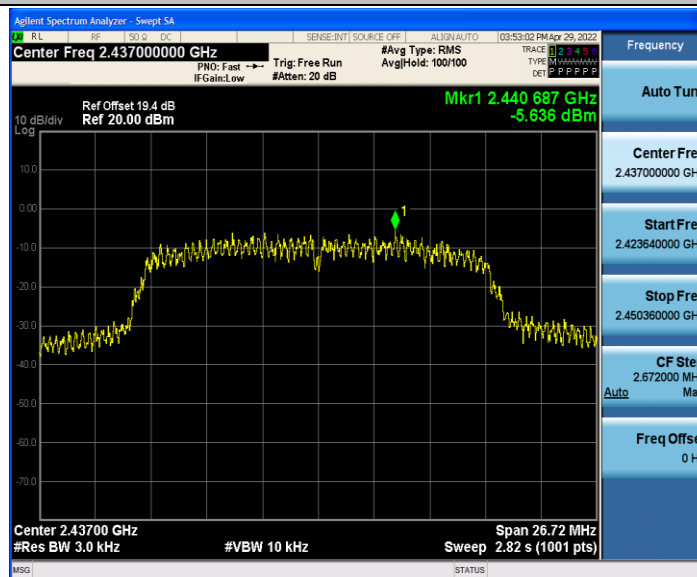
11B_Ant1_2462



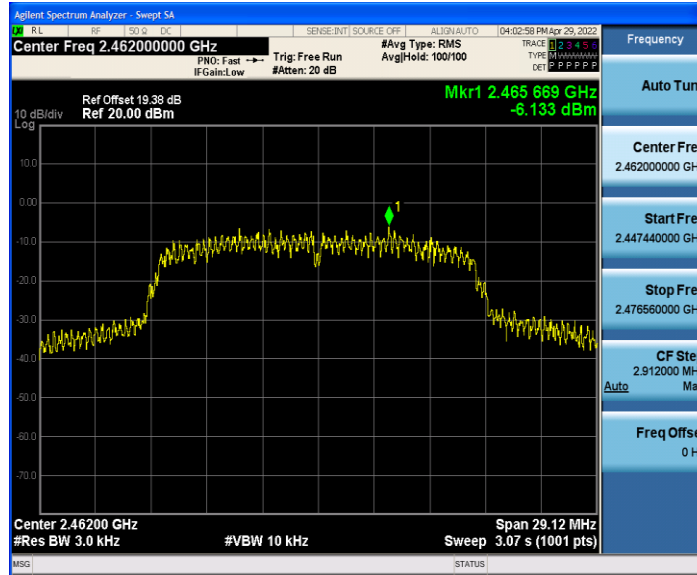
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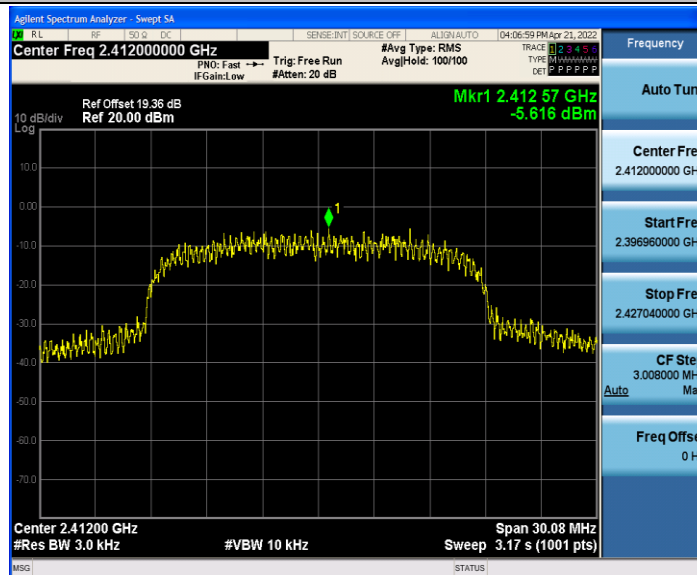
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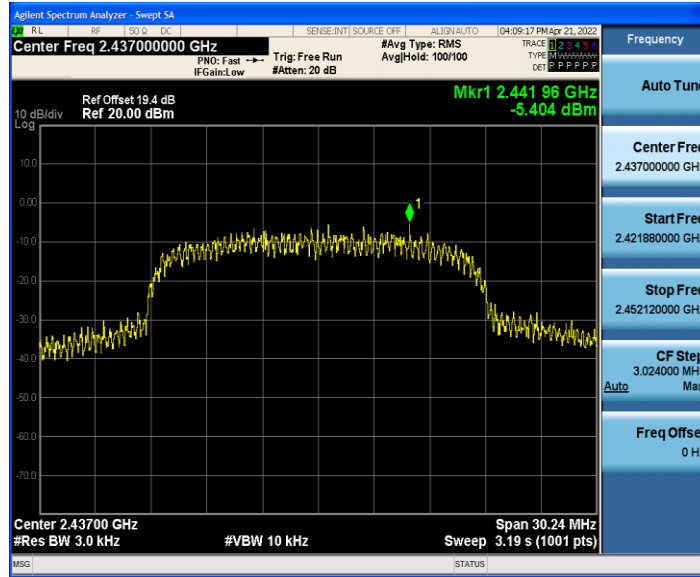
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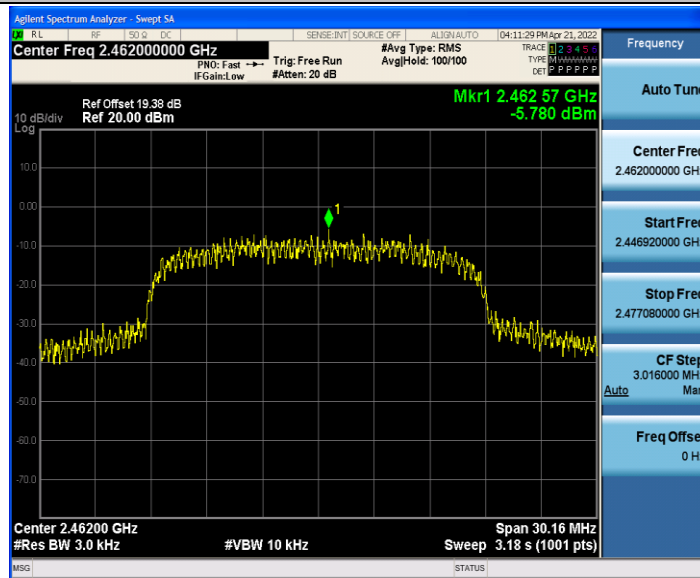
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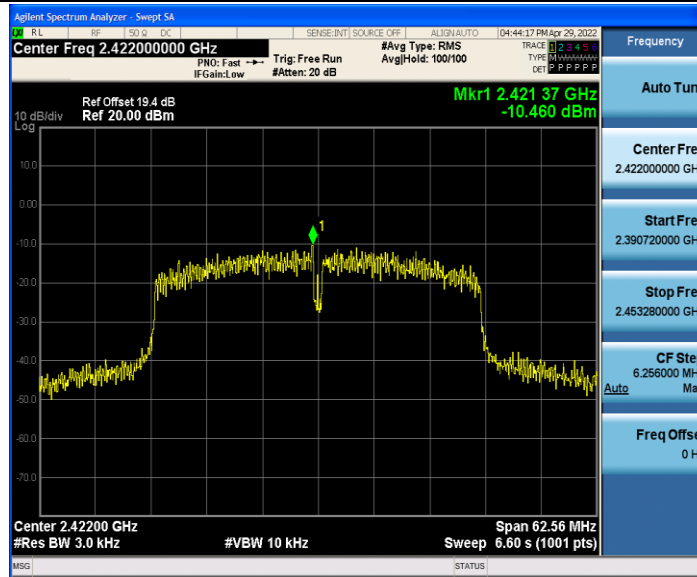
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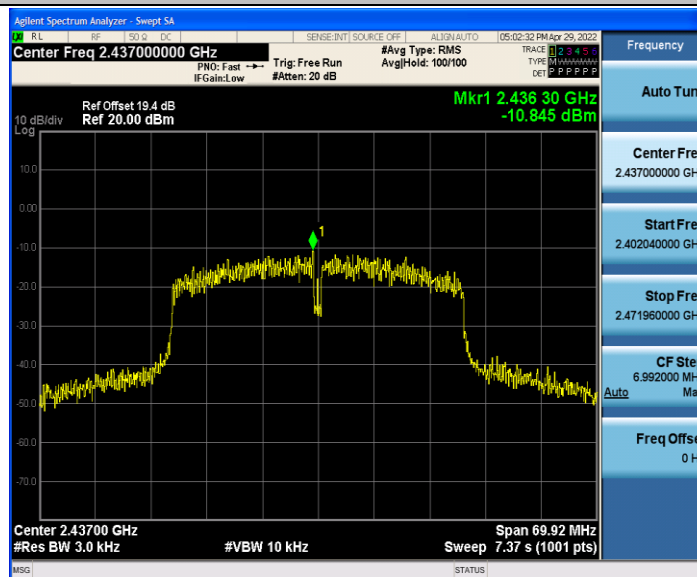
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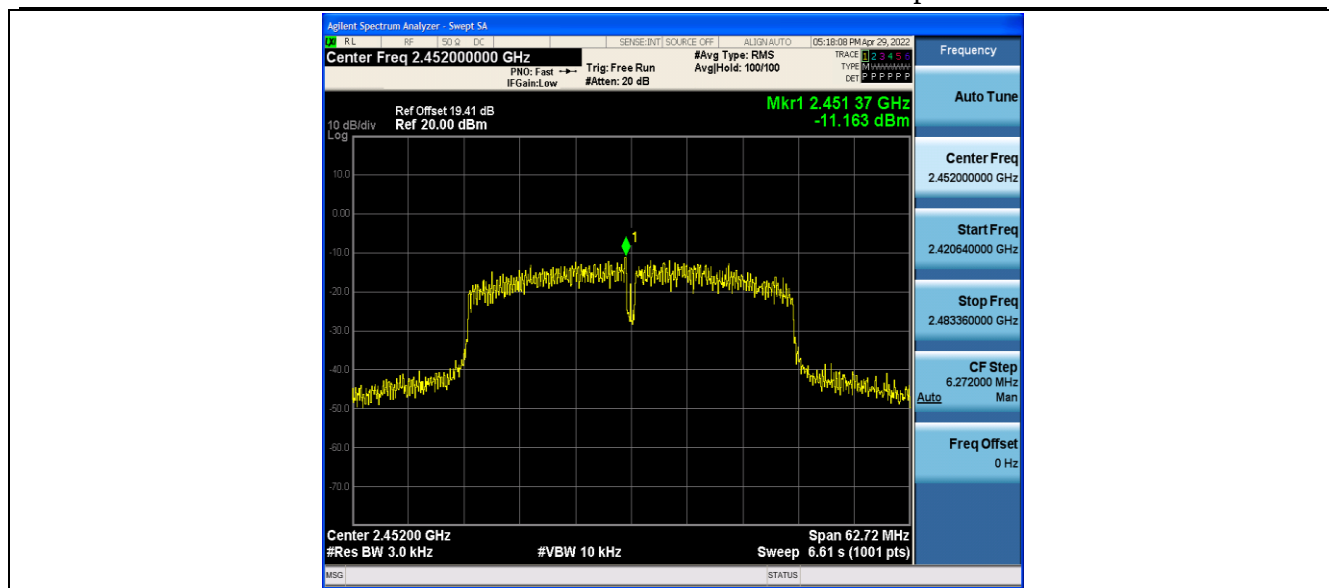
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



4. Photographs of Test Set-up

See the Appendix of Test setup Photographs.

5. Photographs of EUT

See the Appendix of External Photographs and Internal Photographs.

(END OF REPORT)