

Appendix A

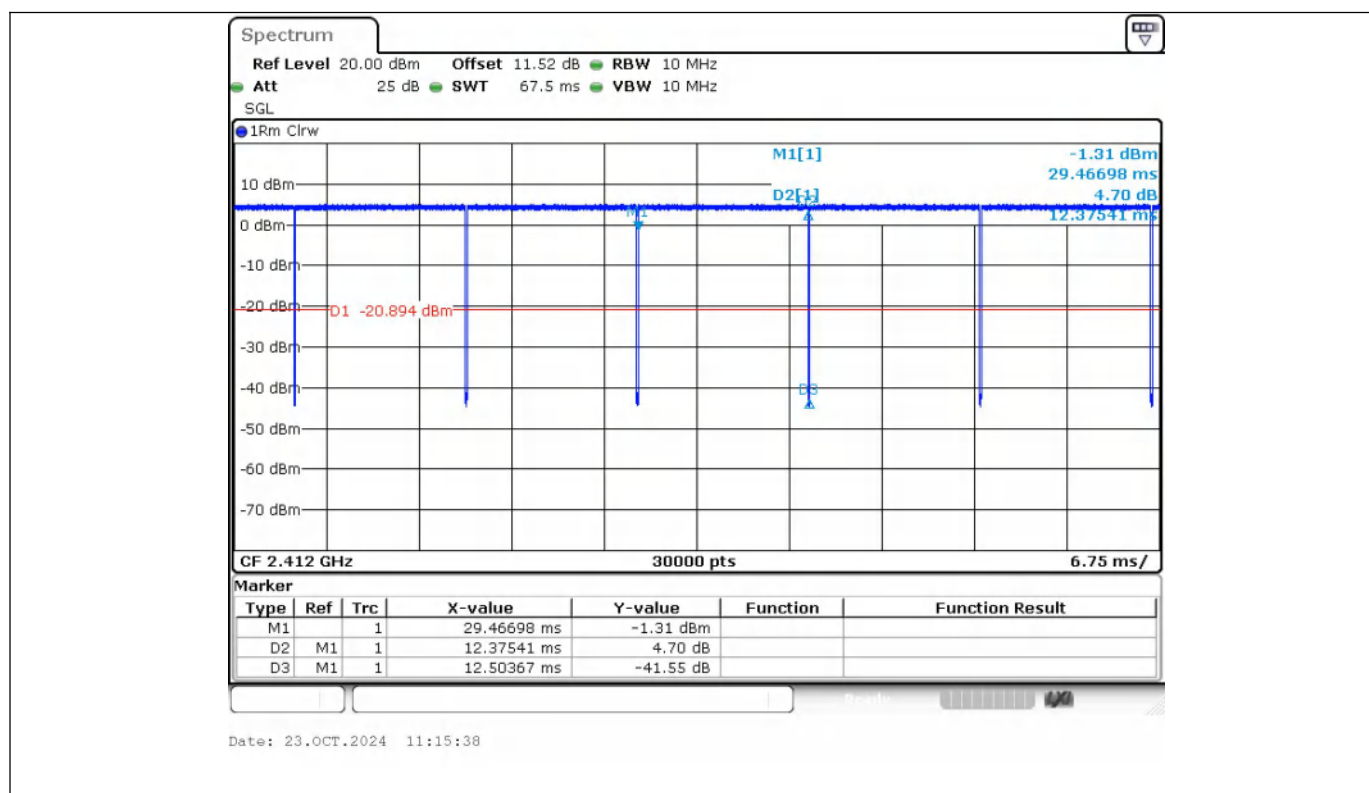
Report No.:	CISRR241015074
FCC ID:	2BFI9-DQ04
Product Name:	Security Camera
Model No.:	DQ04
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

Duty Cycle

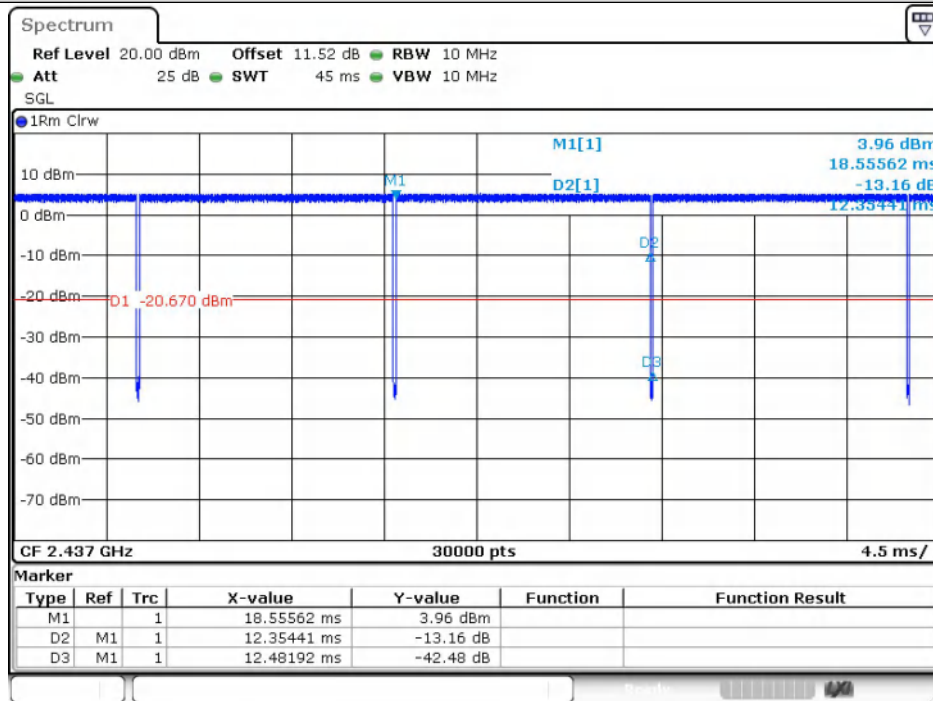
Test Result

Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	12.375	12.504	98.97	0.9897	0.045	0.0808
		6		12.354	12.482	98.98	0.9898	0.0445	0.0809
		11		12.375	12.504	98.97	0.9897	0.045	0.0808
1		2.068		2.195	94.21	0.9421	0.259	0.4836	
6		2.068		2.195	94.21	0.9421	0.259	0.4836	
11		2.068		2.195	94.21	0.9421	0.259	0.4836	
IEEE 802.11n_20	MCS 0	1		1.924	2.051	93.81	0.9381	0.2775	0.5198
		6		1.924	2.051	93.81	0.9381	0.2775	0.5198
		11		1.924	2.051	93.81	0.9381	0.2775	0.5198

Test Graphs

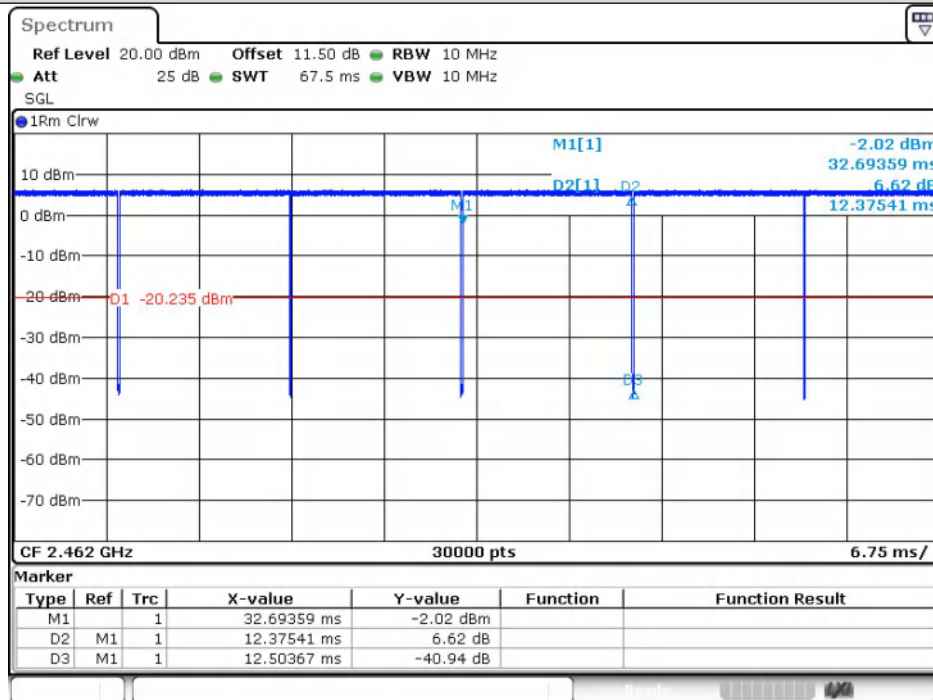


IEEE 802.11b_20MHz_Channel 1



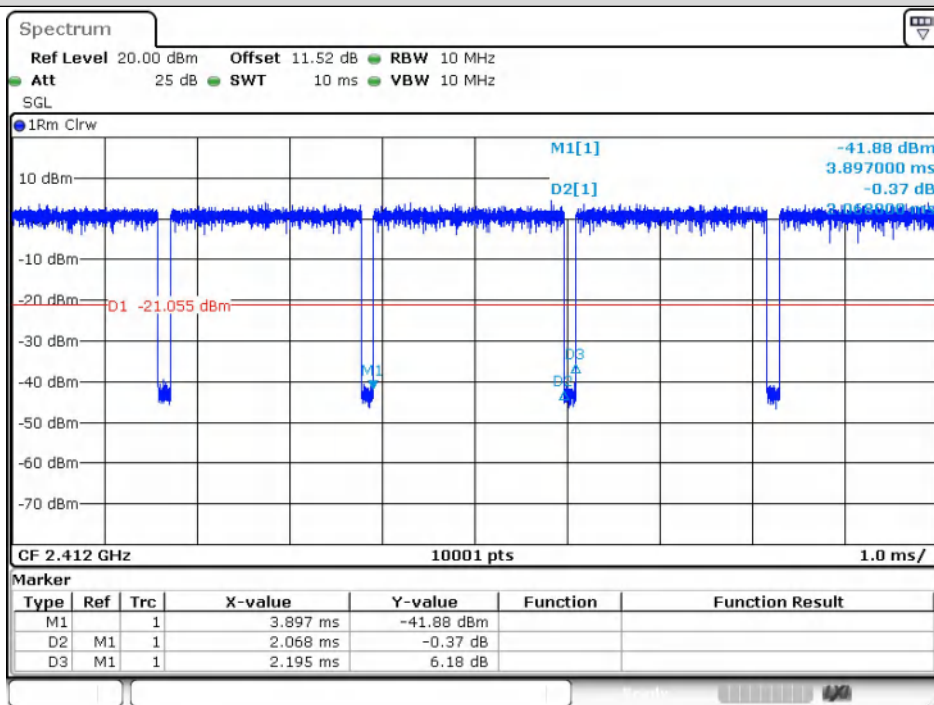
Date: 23.OCT.2024 11:18:59

IEEE 802.11b_20MHz_Channel 6



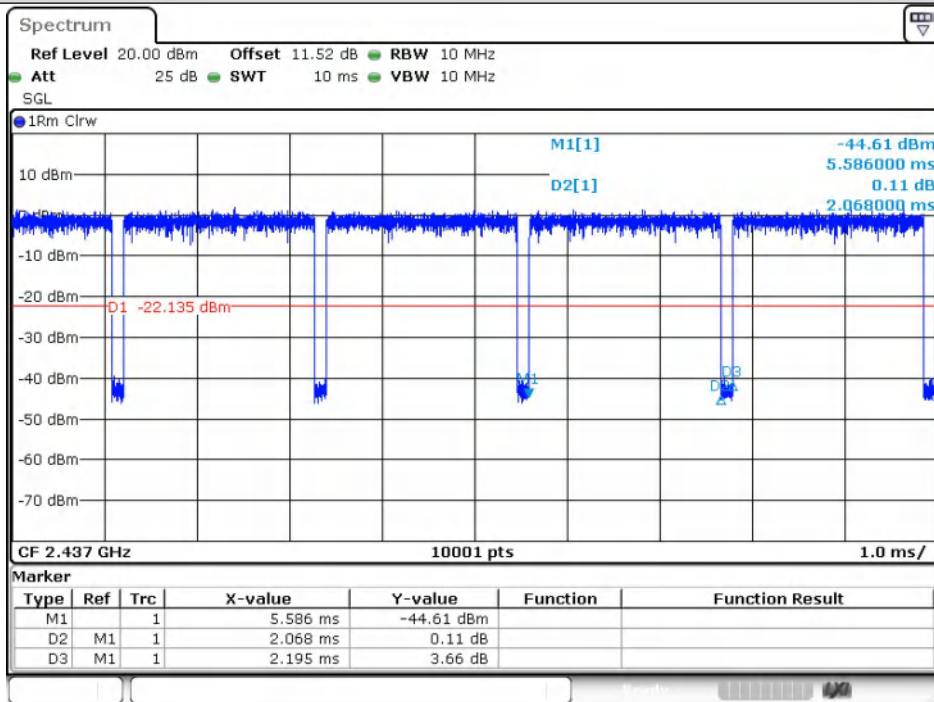
Date: 23.OCT.2024 11:21:33

IEEE 802.11b_20MHz_Channel 11



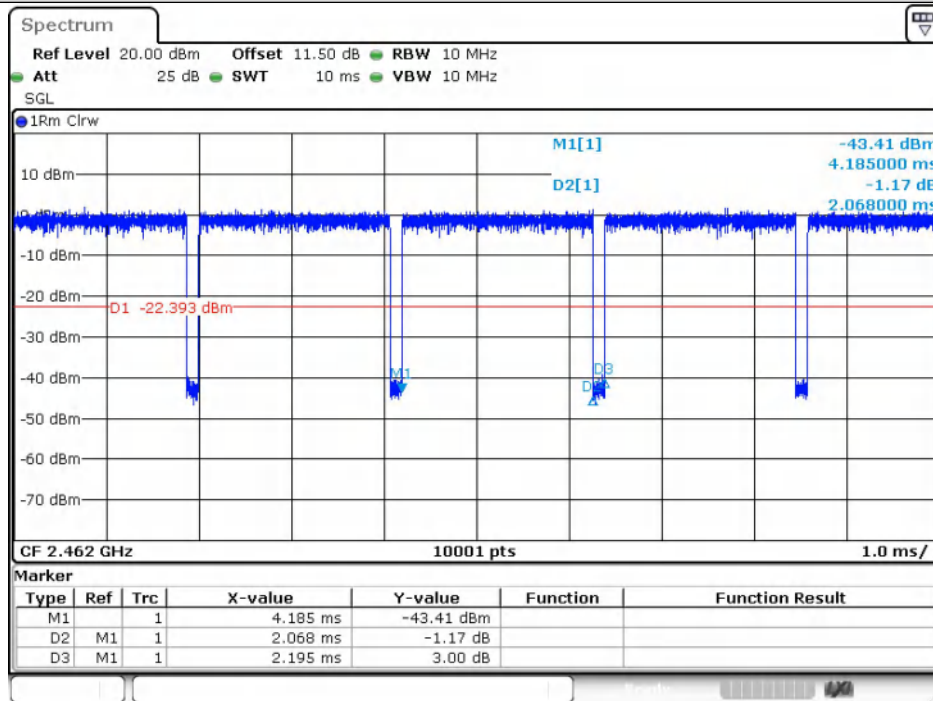
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IEEE 802.11g_20MHz_Channel 1



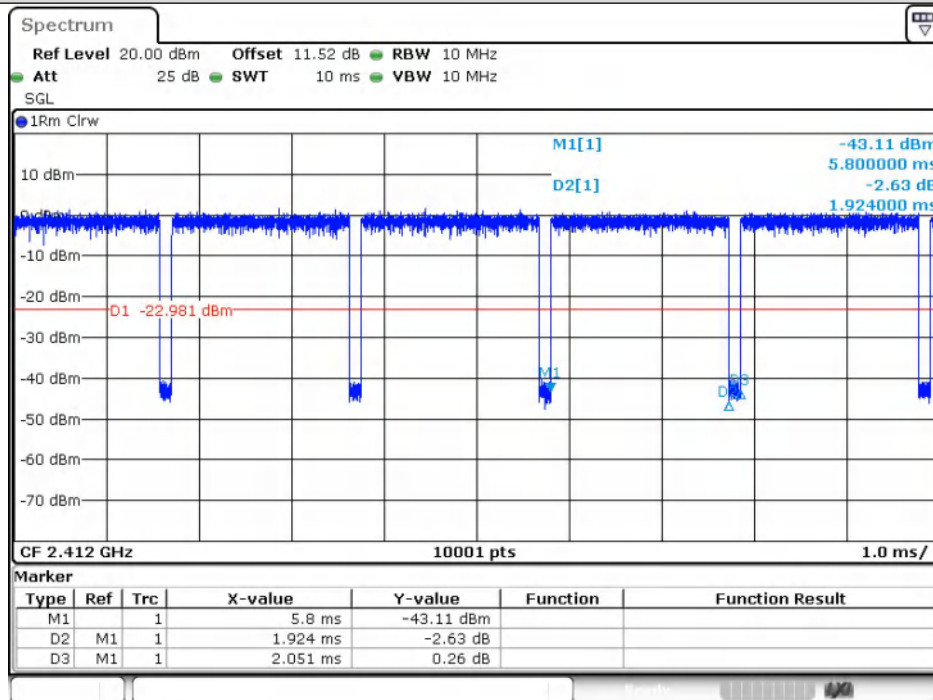
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IEEE 802.11g_20MHz_Channel 6



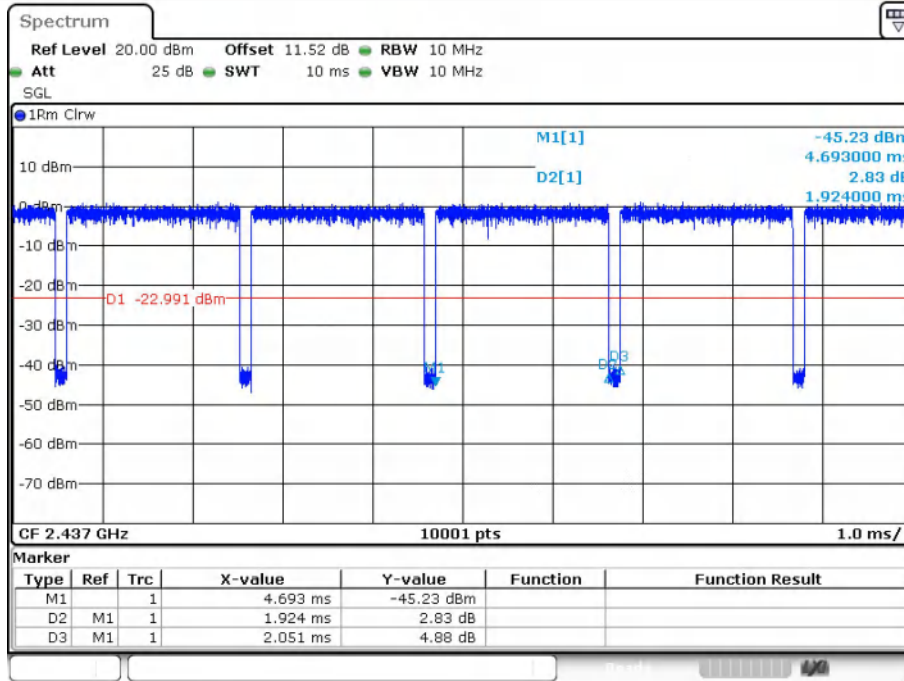
Date: 23.OCT.2024 11:42:26

IEEE 802.11g_20MHz_Channel 11



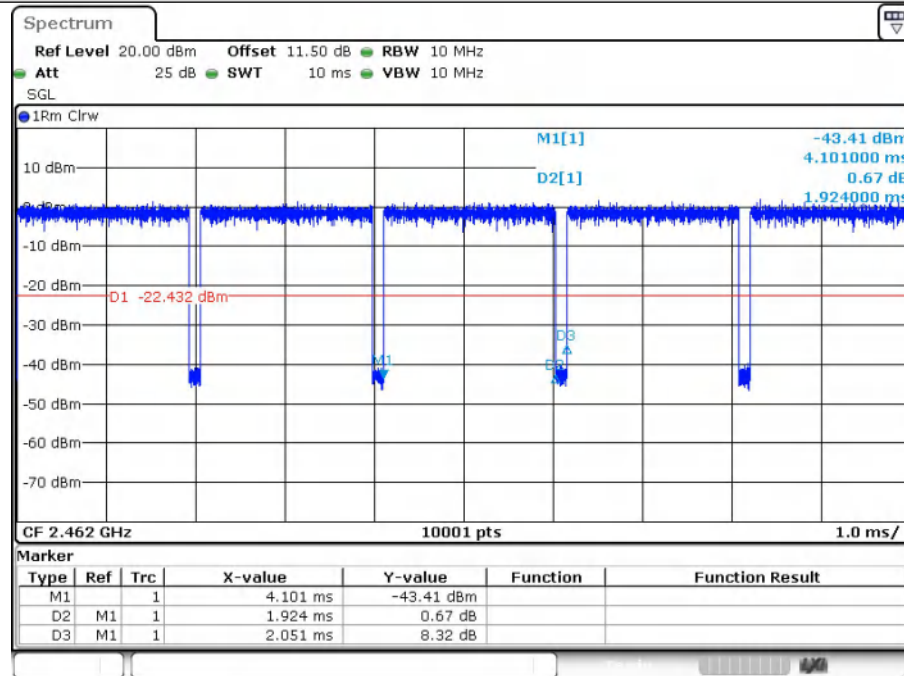
Date: 23.OCT.2024 11:45:26

IEEE 802.11n_20MHz_Channel 1



Date: 23.OCT.2024 11:48:16

IEEE 802.11n_20MHz_Channel 6



Date: 23.OCT.2024 11:50:54

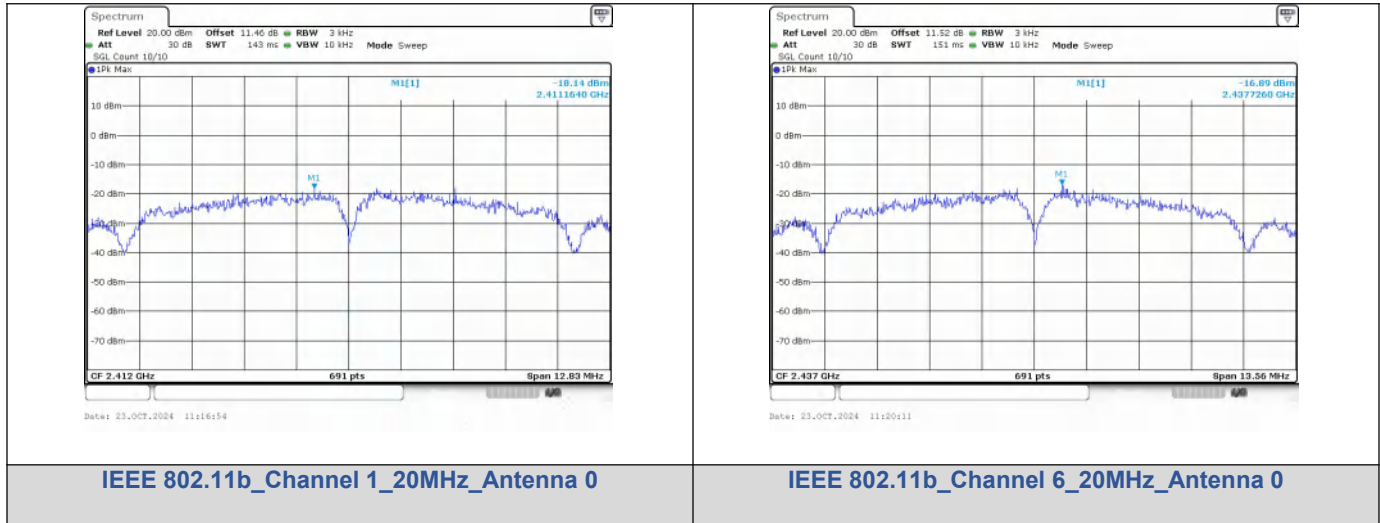
IEEE 802.11n_20MHz_Channel 11

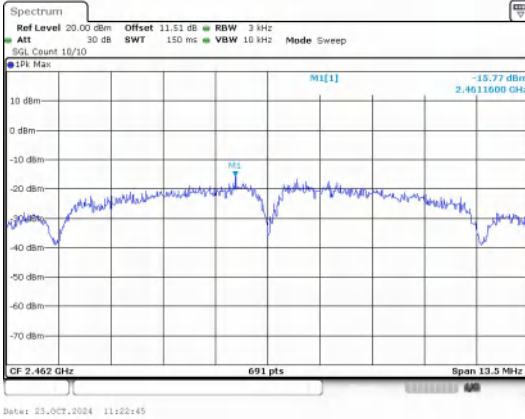
Power Spectral Density

Test Result

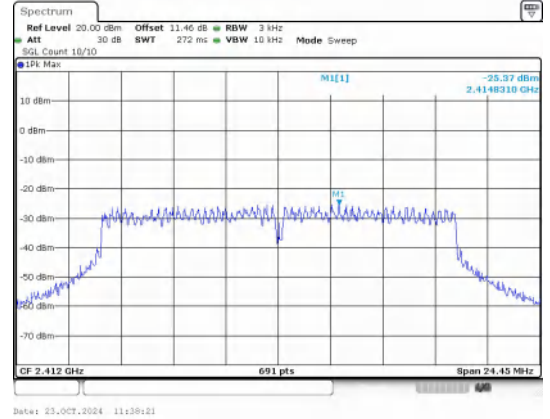
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-18.14	≤8	PASS
	6	-16.89		PASS
	11	-15.77		PASS
IEEE 802.11g	1	-25.37		PASS
	6	-25.43		PASS
	11	-25.22		PASS
IEEE 802.11n_20	1	-24.64		PASS
	6	-24.37		PASS
	11	-24.81		PASS

Test Graphs

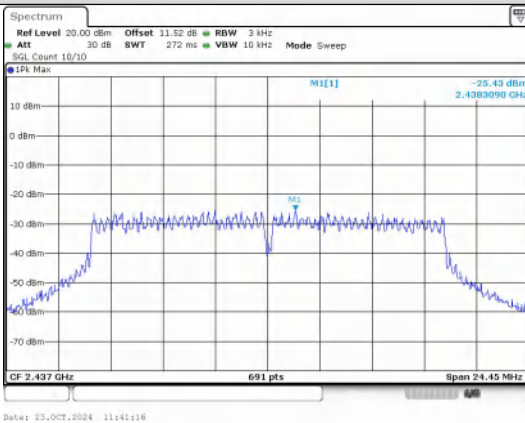




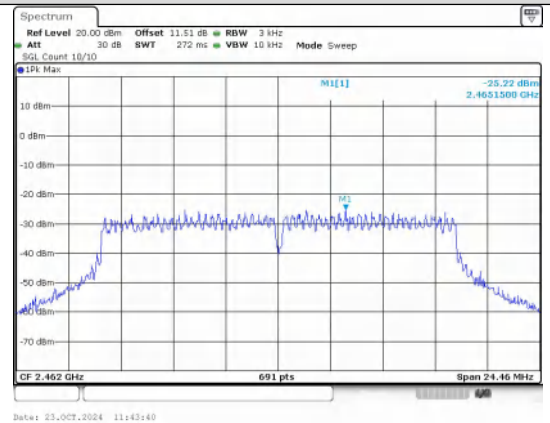
IEEE 802.11b_Channel 11_20MHz_Antenna 0



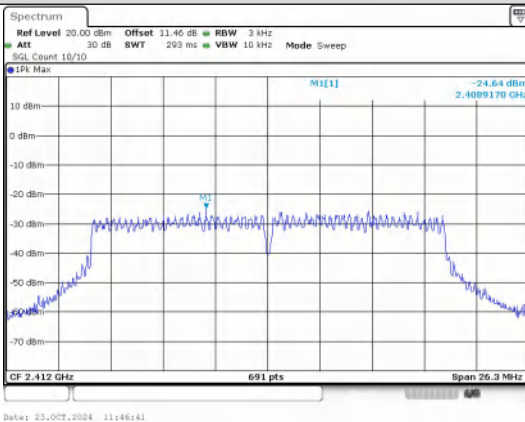
IEEE 802.11g_Channel 1_20MHz_Antenna 0



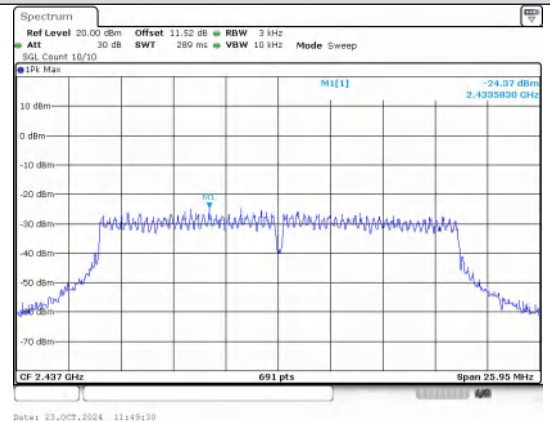
IEEE 802.11g_Channel 6_20MHz_Antenna 0



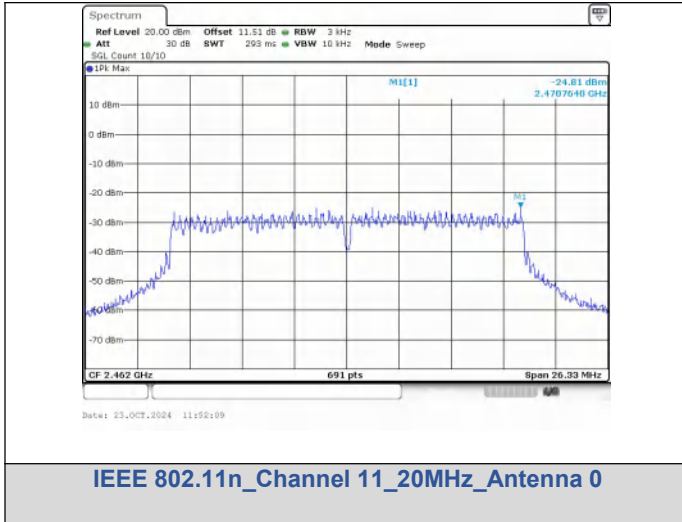
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



Conducted Peak Output Power

Test Result

Conducted Output Power

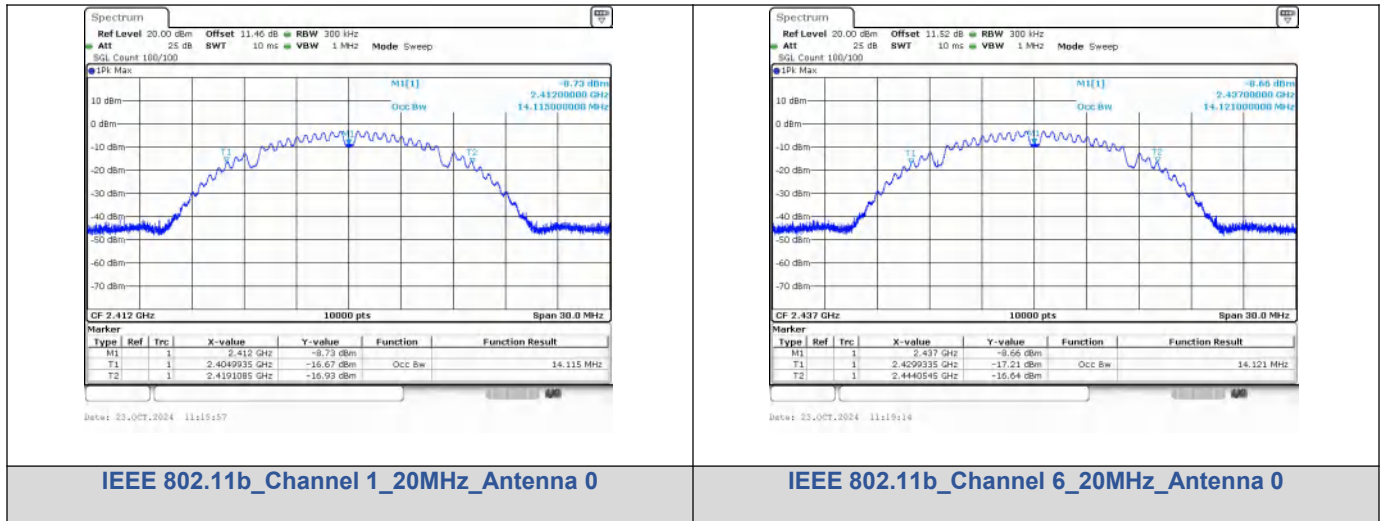
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	7.90	≤30	PASS
	6	7.89	≤30	PASS
	11	8.88	≤30	PASS
IEEE 802.11g	1	9.05	≤30	PASS
	6	8.42	≤30	PASS
	11	8.51	≤30	PASS
IEEE 802.11n_20	1	8.63	≤30	PASS
	6	8.46	≤30	PASS
	11	8.57	≤30	PASS

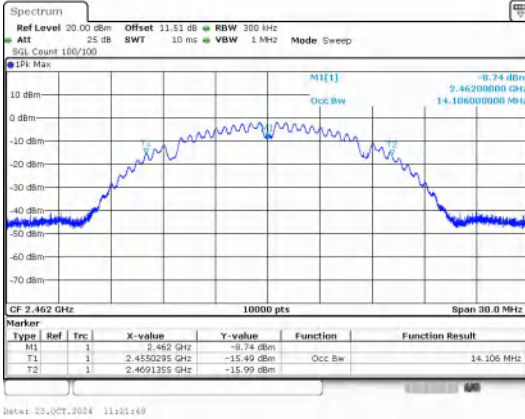
99% Bandwidth

Test Result

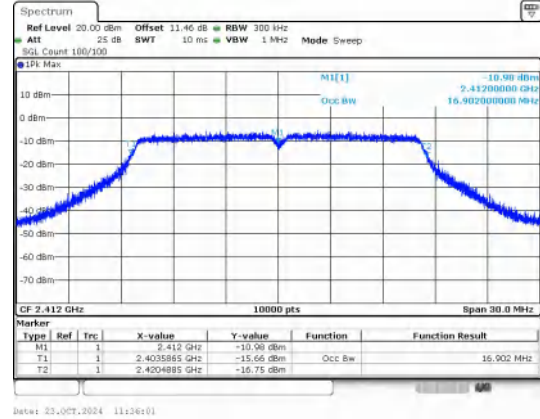
Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	14.115
	6		2437	14.121
	11		2462	14.106
IEEE 802.11g	1		2412	16.902
	6		2437	16.893
	11		2462	16.893
IEEE 802.11n_20	1		2412	17.982
	6		2437	17.991
	11		2462	18.006

Test Graphs

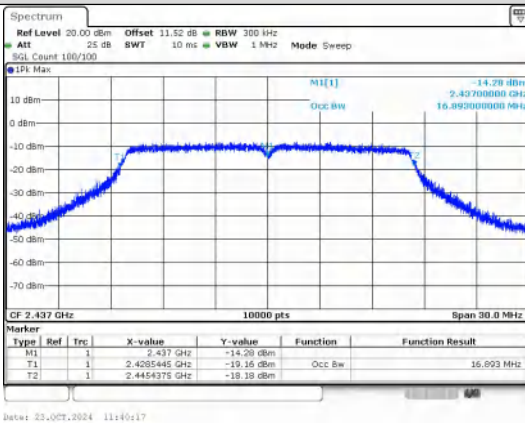




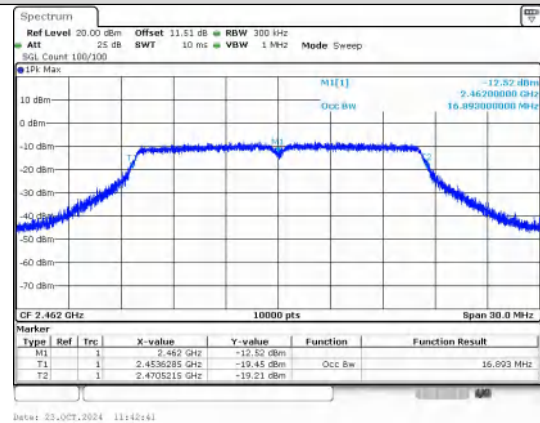
IEEE 802.11b_Channel 11_20MHz_Antenna 0



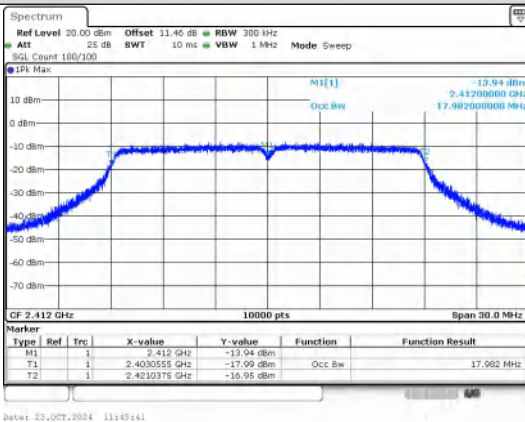
IEEE 802.11g_Channel 1_20MHz_Antenna 0



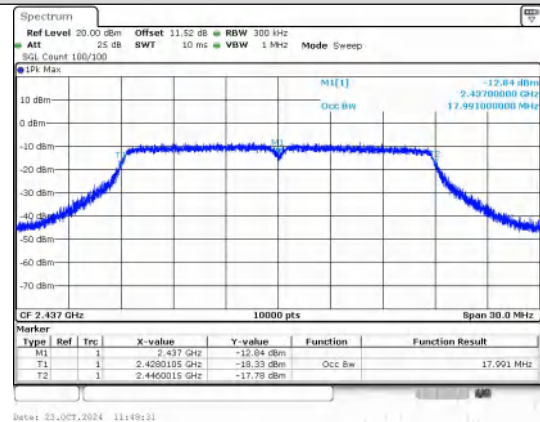
IEEE 802.11g_Channel 6_20MHz_Antenna 0



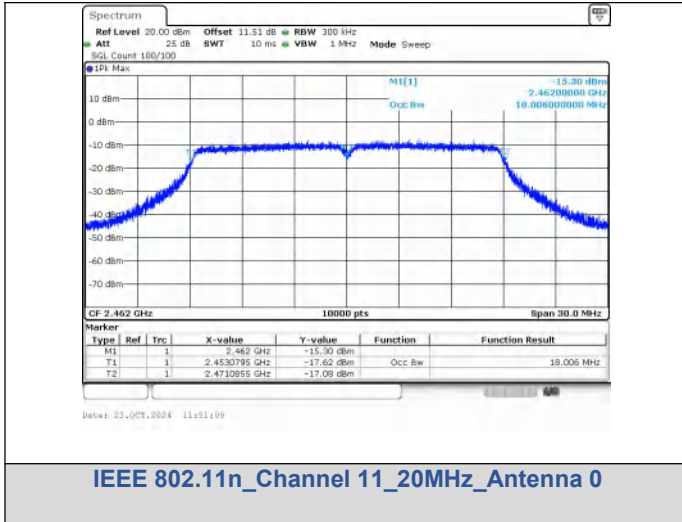
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0

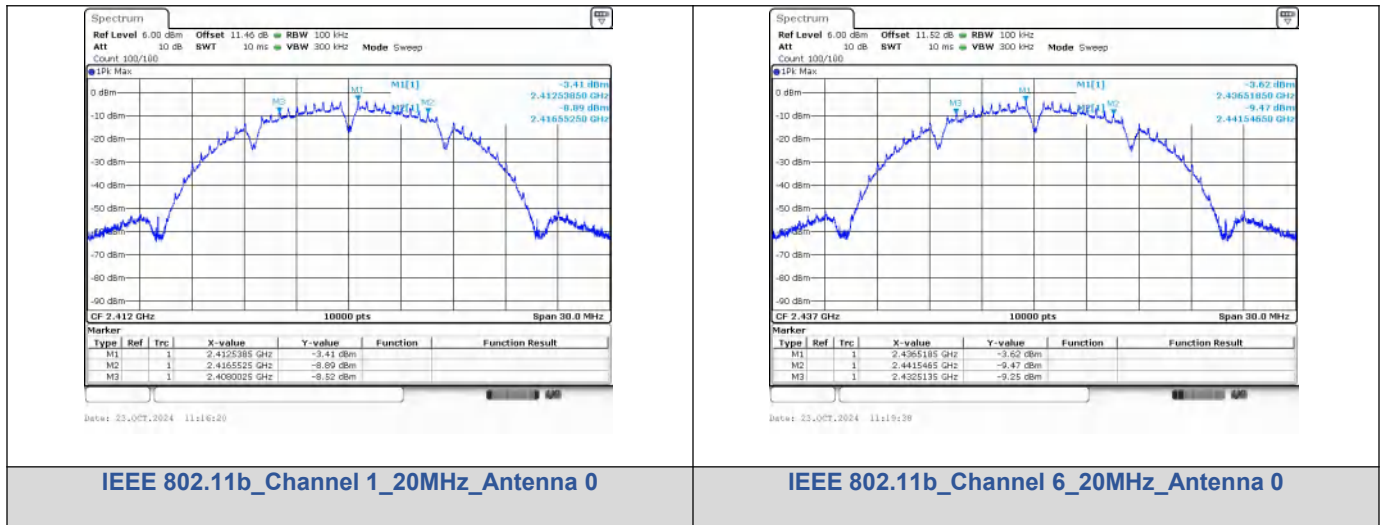


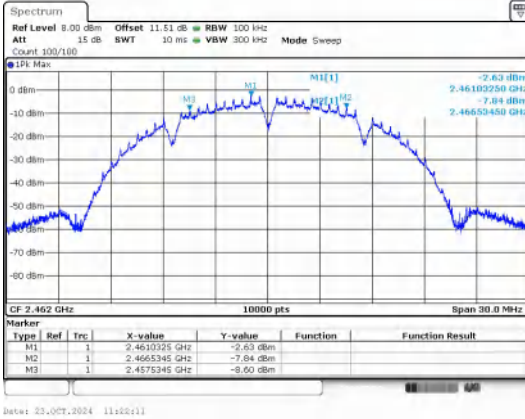
6dB Bandwidth

Test Result

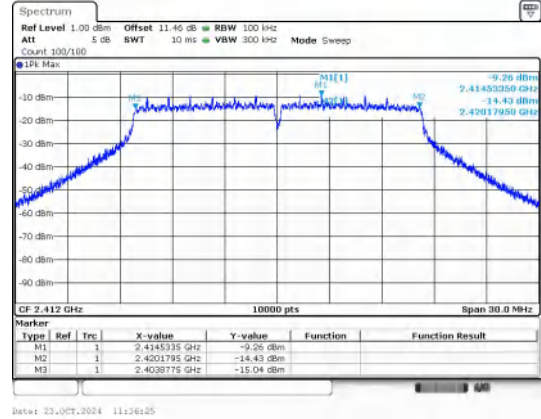
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.550	≥0.5	PASS
	6		2437	9.040		PASS
	11		2462	9.000		PASS
IEEE 802.11g	1		2412	16.30		PASS
	6		2437	16.30		PASS
	11		2462	16.31		PASS
IEEE 802.11n_20	1		2412	17.53		PASS
	6		2437	17.30		PASS
	11		2462	17.55		PASS

Test Graphs

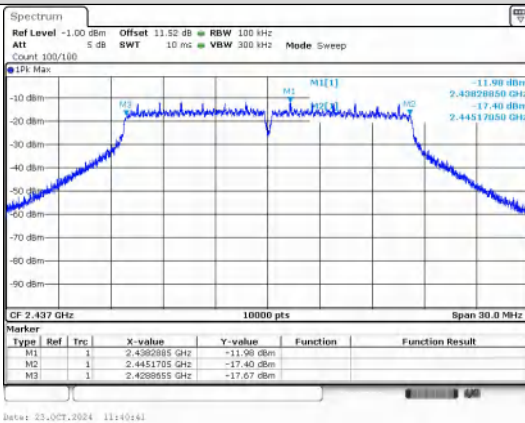




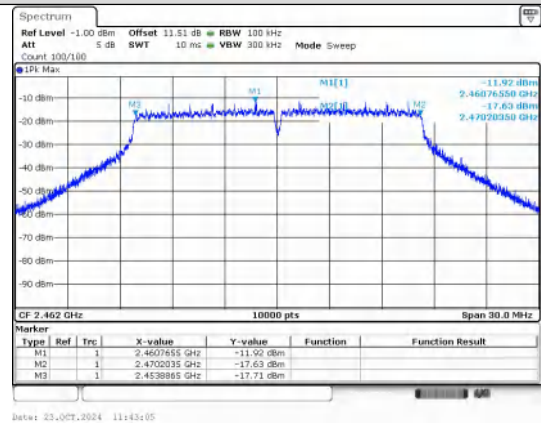
IEEE 802.11b_Channel 11_20MHz_Antenna 0



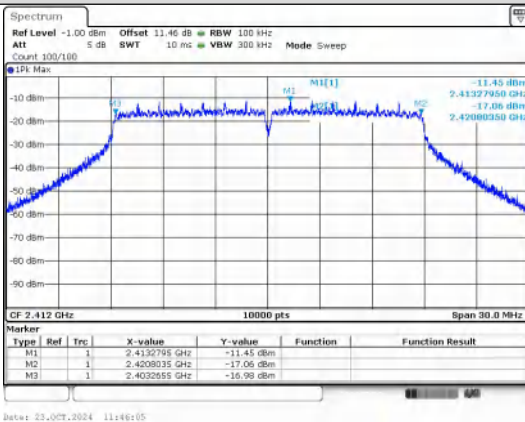
IEEE 802.11g_Channel 1_20MHz_Antenna 0



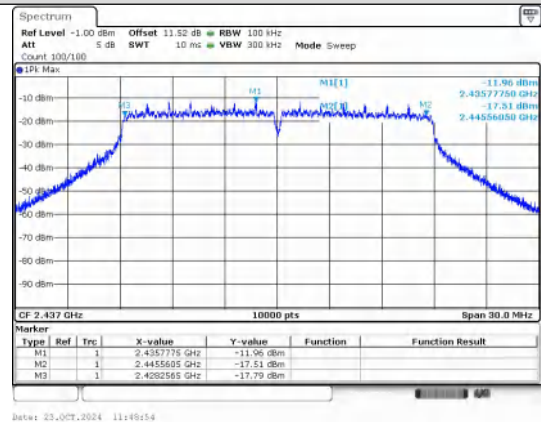
IEEE 802.11g_Channel 6_20MHz_Antenna 0



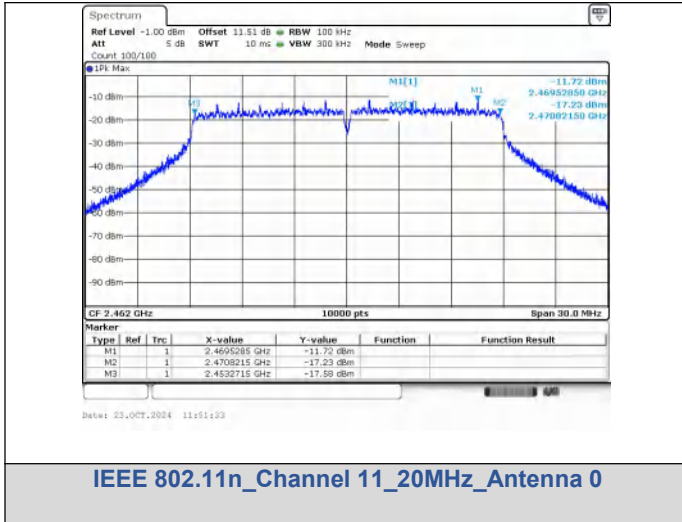
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0

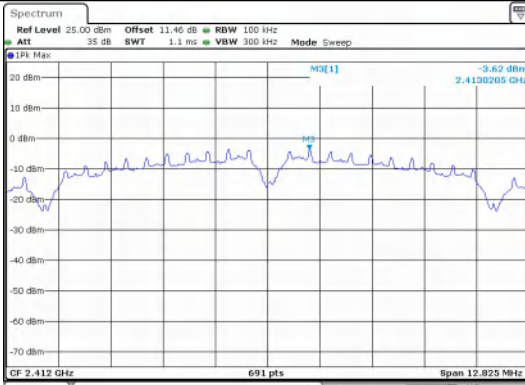


Conducted Out Of Band Emission

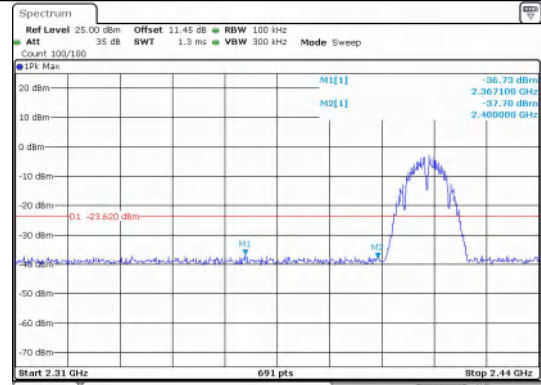
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2367.10	-36.726	-23.62	-13.106	PASS
			2400.00	-37.703	-23.62	-14.083	PASS
			6893.00	-42.499	-23.62	-18.879	PASS
	6		6851.39	-42.772	-23.78	-18.992	PASS
	11		2483.50	-38.343	-23.01	-15.333	PASS
			6927.13	-43.209	-23.01	-20.199	PASS
IEEE 802.11g	1		2339.63	-36.753	-30.49	-6.263	PASS
			2400.00	-37.698	-30.49	-7.208	PASS
			6188.00	-42.247	-30.49	-11.757	PASS
	6		6898.83	-43.088	-30.84	-12.248	PASS
	11		2483.50	-38.485	-30.96	-7.525	PASS
			16325.8	-42.893	-30.96	-11.933	PASS
IEEE 802.11n_20	1		2362.58	-36.124	-30.53	-5.594	PASS
			2400.00	-37.657	-30.53	-7.127	PASS
			6934.60	-42.260	-30.53	-11.730	PASS
	6		15821.4	-43.116	-31.01	-12.106	PASS
	11		2483.50	-38.324	-31.13	-7.194	PASS
			22031.5	-43.194	-31.13	-12.064	PASS

Test Graphs



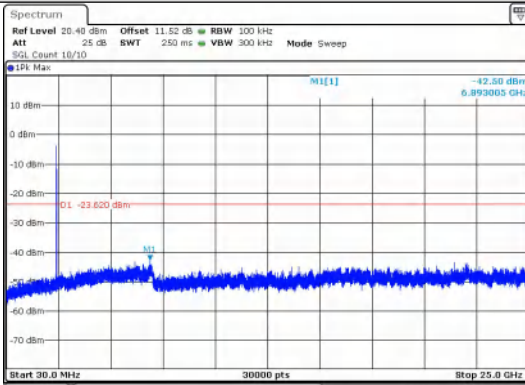
Date: 23.OCT.2024 11:17:19



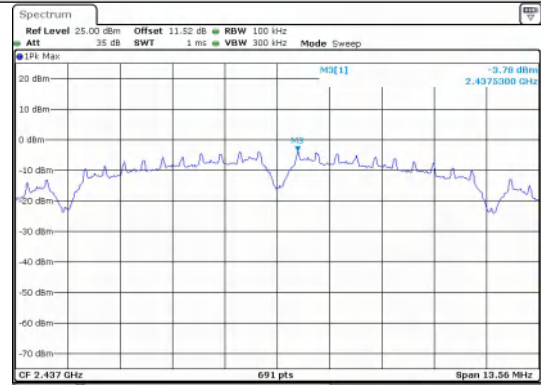
Date: 23.OCT.2024 11:17:29

In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0

Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



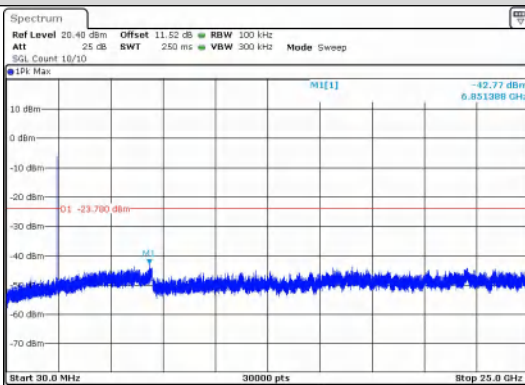
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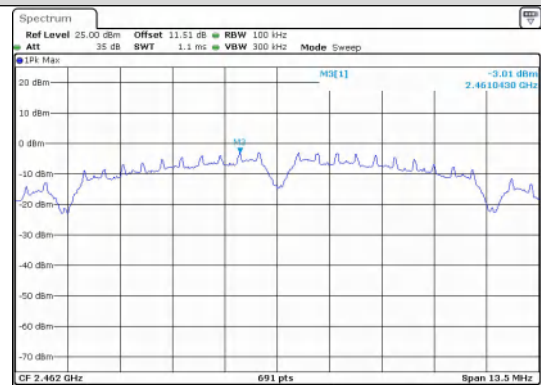
Date: 23.OCT.2024 11:20:27

30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



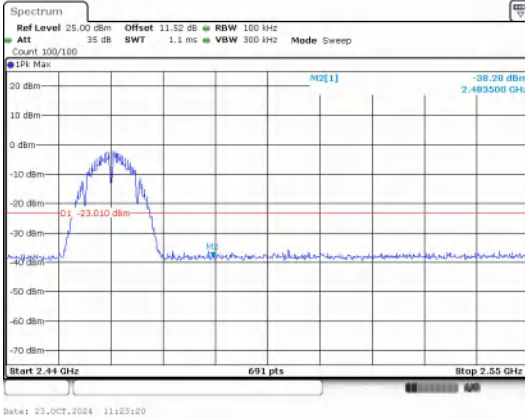
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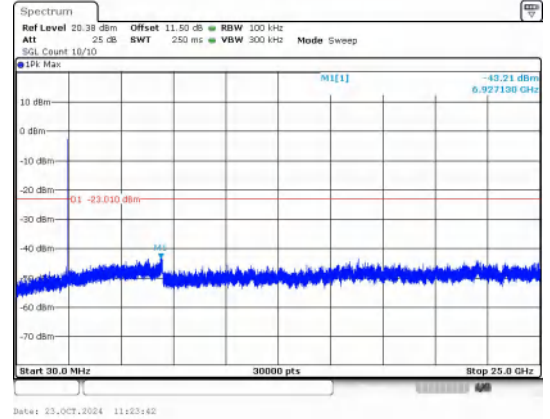
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30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0

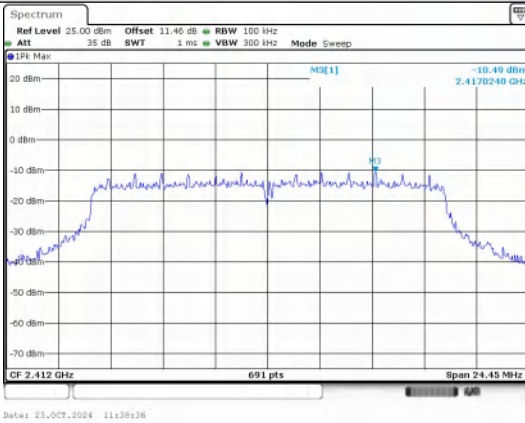
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



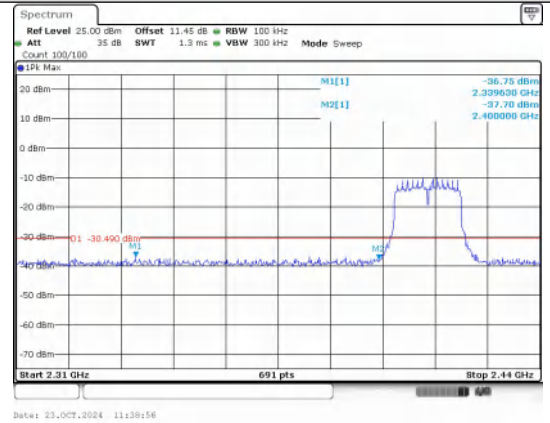
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



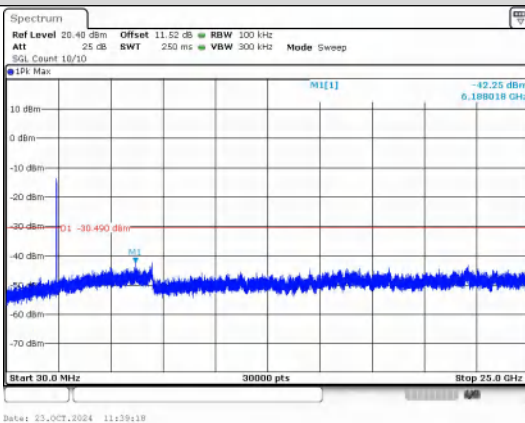
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



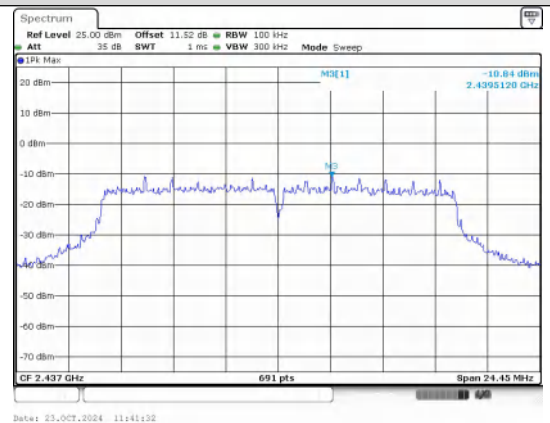
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



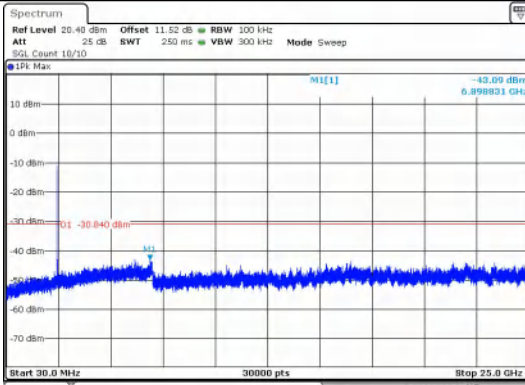
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



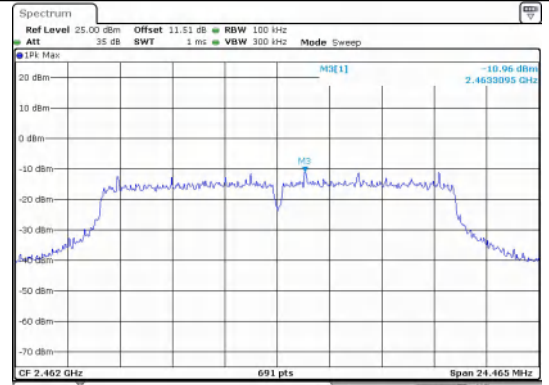
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



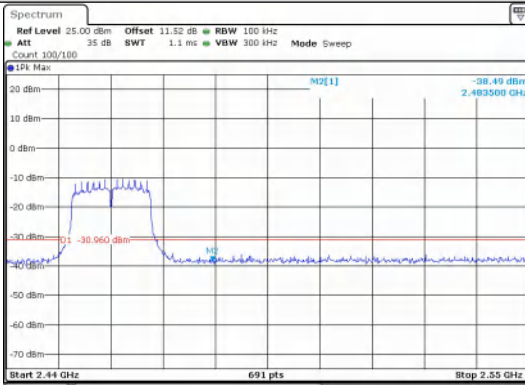
Date: 23.OCT.2024 11:41:56



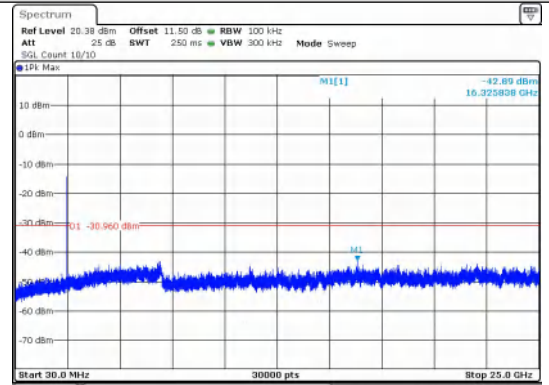
Date: 23.OCT.2024 11:43:56

30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0

In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



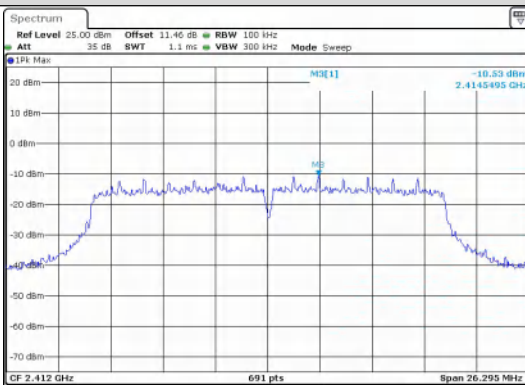
Date: 23.OCT.2024 11:44:15



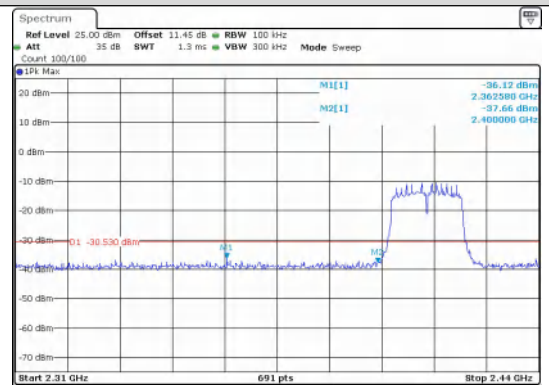
Date: 23.OCT.2024 11:44:30

Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0

30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



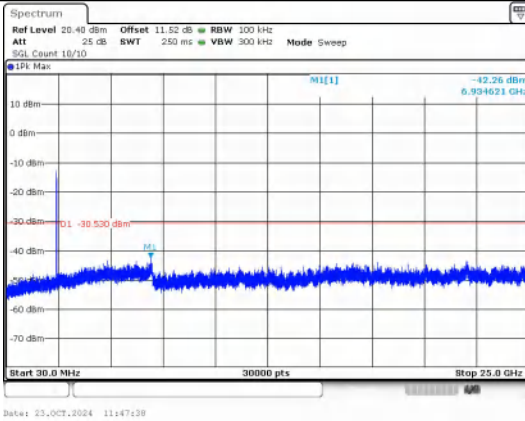
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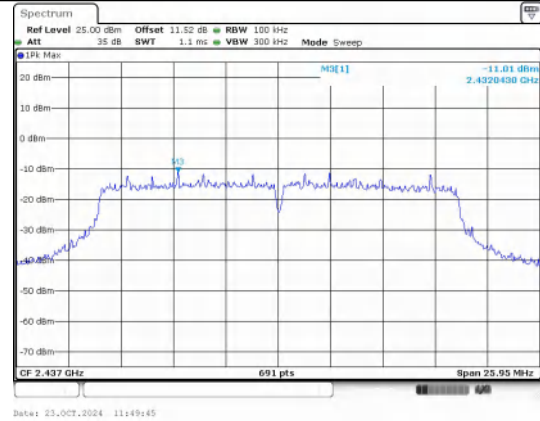
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In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0

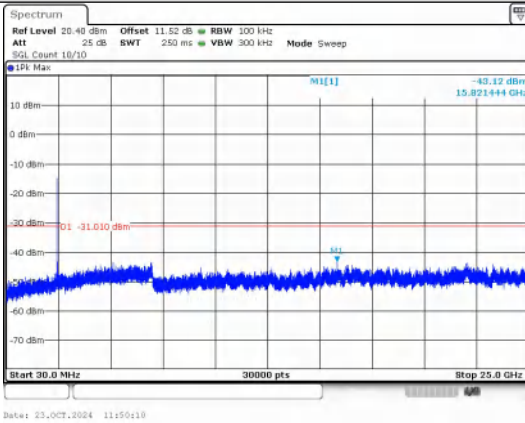
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



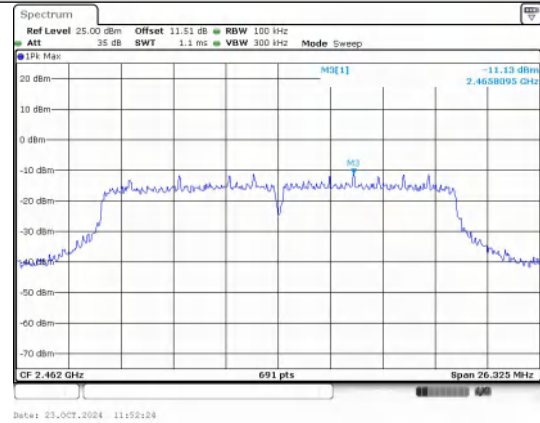
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



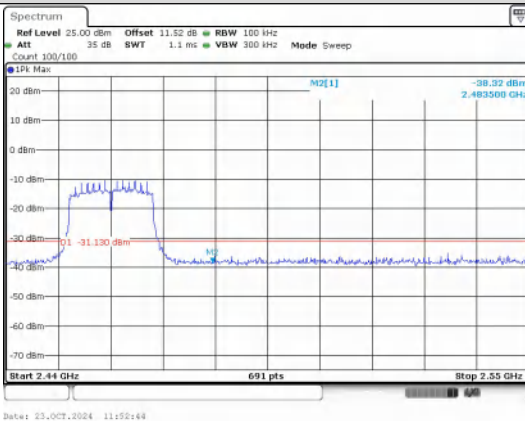
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



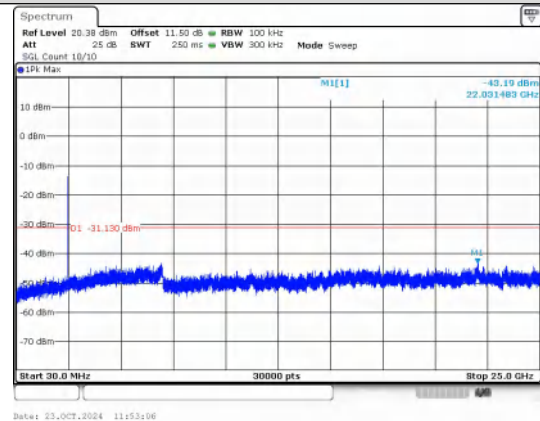
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0