

Appendix A

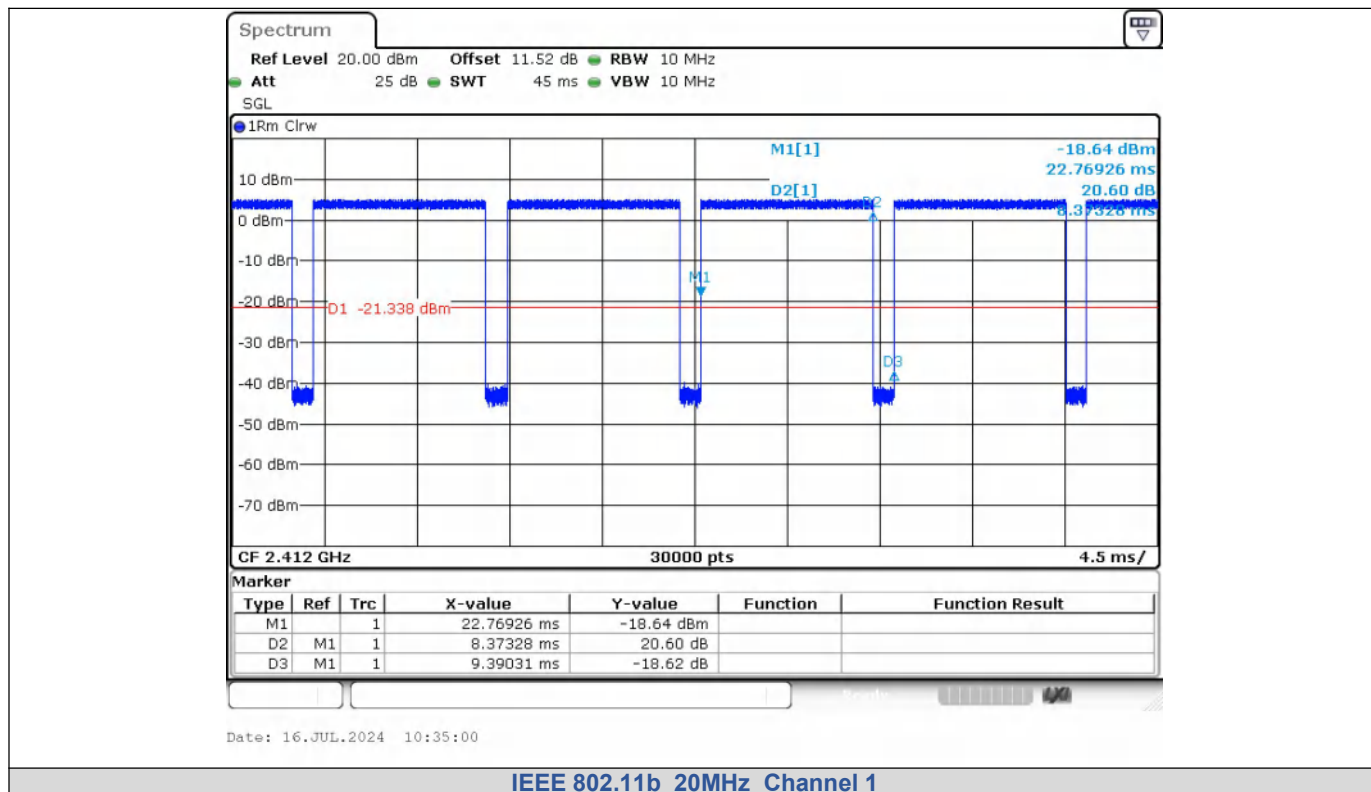
Report No.:	CISRR24070402601
FCC ID:	2BFI9F2
Product Name:	Security Camera
Model No.:	F2
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

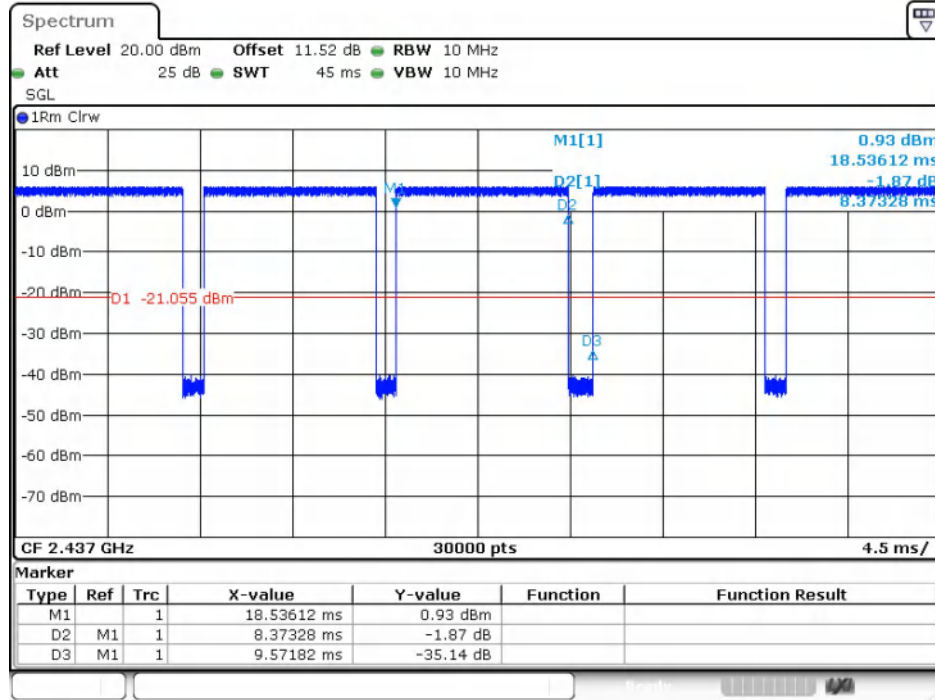
Duty Cycle

Test Result

Mode	Data rates	Channel	RU & Index	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	N/A	1	8.373	9.390	89.17	0.8917	0.4978	0.12
		6			8.373	9.572	87.48	0.8748	0.5809	0.12
		11			8.372	9.389	89.17	0.8917	0.4978	0.12
1		1.403			2.418	58.00	0.5800	2.3657	0.71	
6		1.400			2.427	57.68	0.5768	2.3897	0.71	
11		1.400			2.418	57.90	0.5790	2.3732	0.71	
IEEE 802.11n_20	MCS 0	1			5.096	6.120	83.27	0.8327	0.7951	0.20
		6			5.100	6.119	83.34	0.8334	0.7915	0.20
		11			5.100	6.119	83.34	0.8334	0.7915	0.20
IEEE 802.11n_40		3	4.903		5.926	82.73	0.8273	0.8234	0.20	
		6	4.905		5.929	82.73	0.8273	0.8234	0.20	
		9	4.907		5.920	82.90	0.8290	0.8145	0.20	
IEEE 802.11ax_20		SU	1		3.881	4.896	79.27	0.7927	1.0089	0.26
			6		3.884	4.907	79.14	0.7914	1.016	0.26
			11		3.884	4.907	79.14	0.7914	1.016	0.26
3			3.879		4.896	79.23	0.7923	1.0111	0.26	
6			3.879		4.898	79.19	0.7919	1.0133	0.26	
9			3.879		4.901	79.16	0.7916	1.0149	0.26	

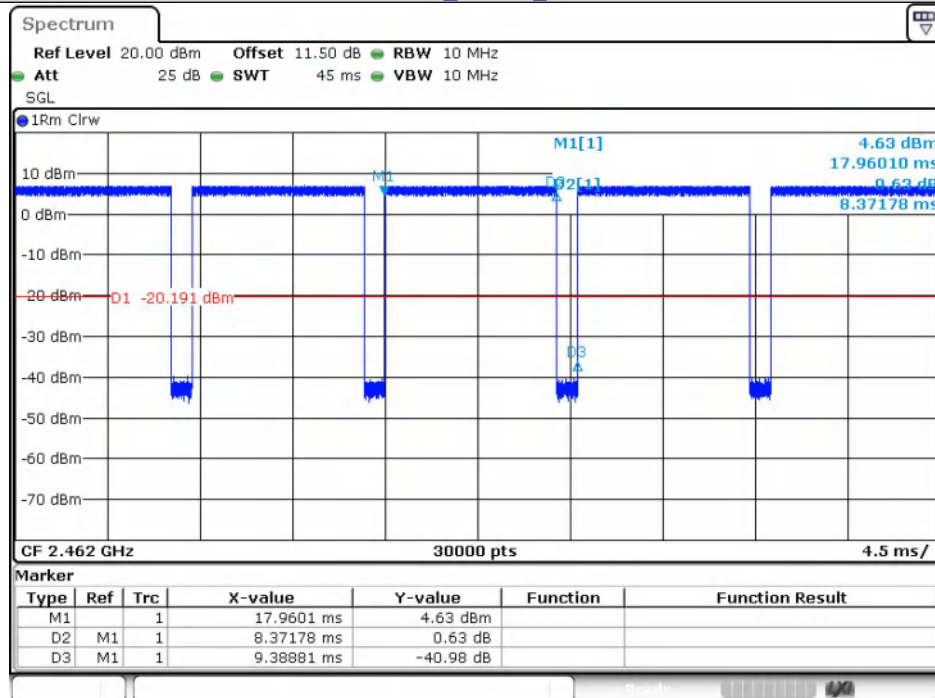
Test Graphs





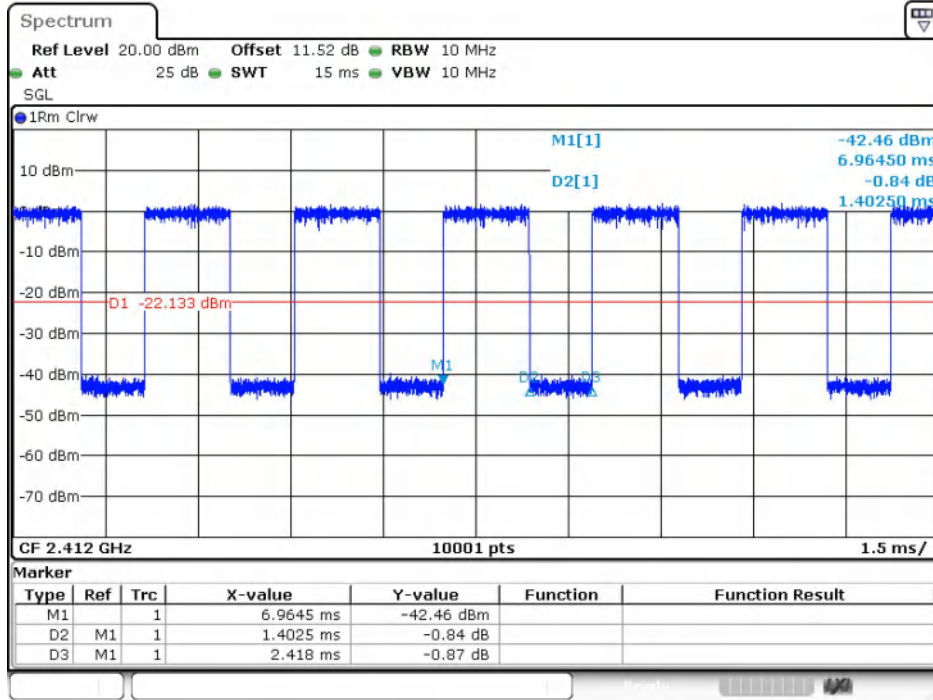
Date: 16.JUL.2024 10:40:55

IEEE 802.11b_20MHz_Channel 6



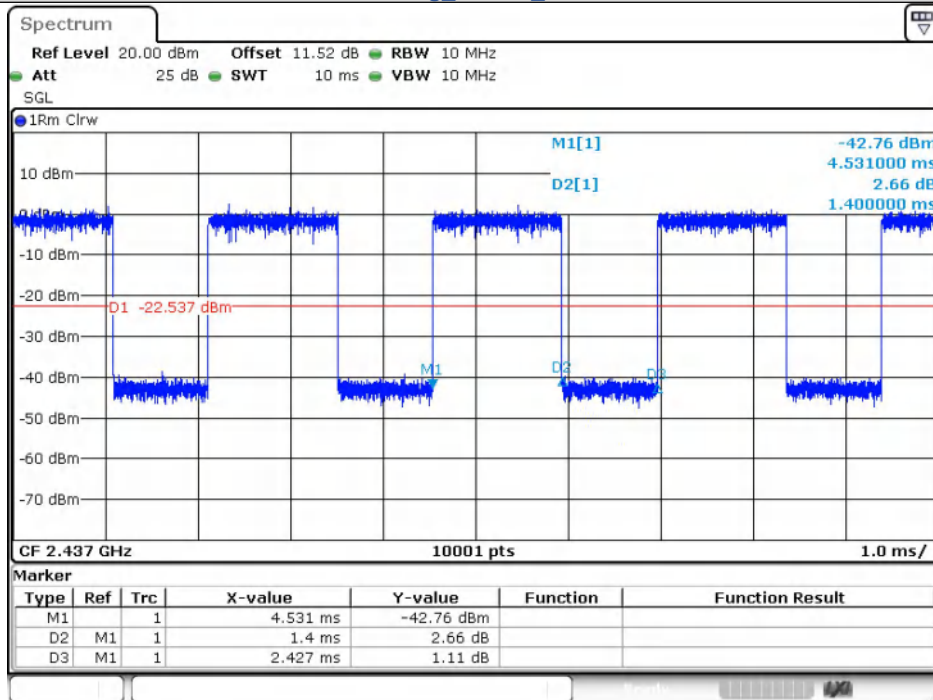
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IEEE 802.11b_20MHz_Channel 11



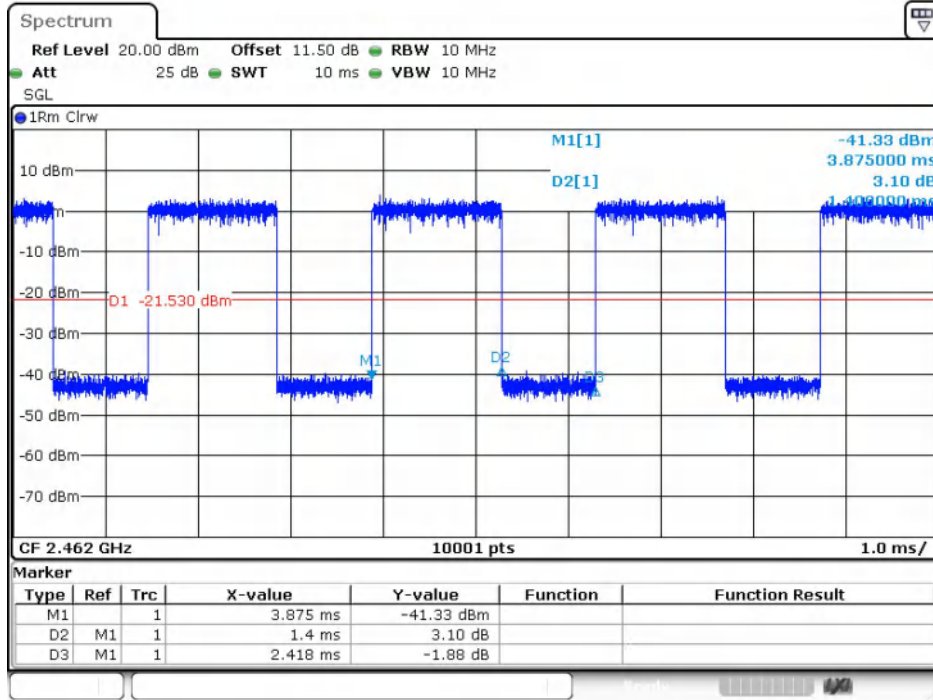
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IEEE 802.11g_20MHz_Channel 1



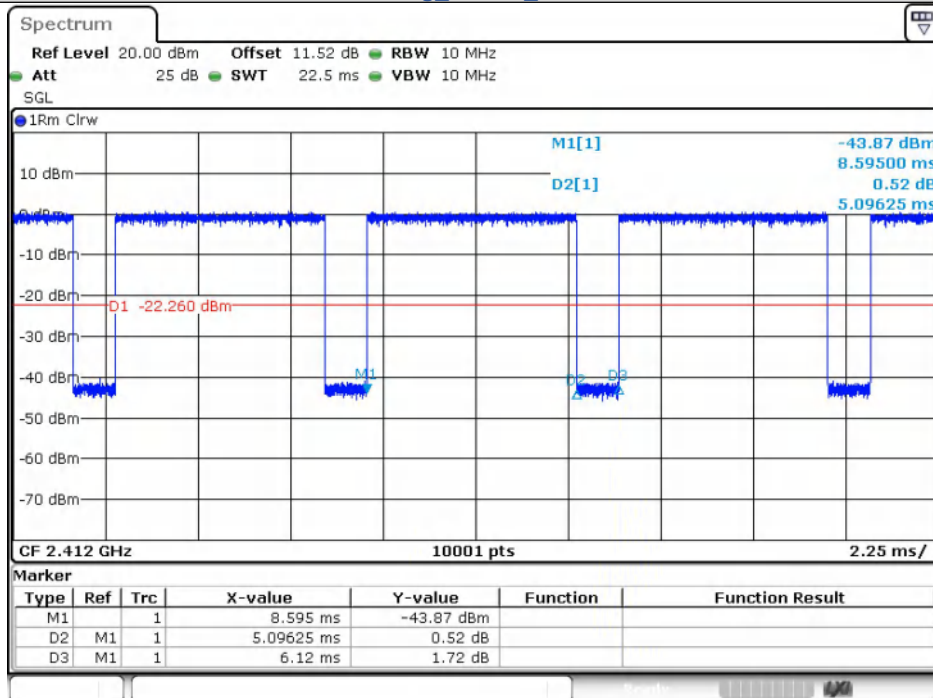
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IEEE 802.11g_20MHz_Channel 6



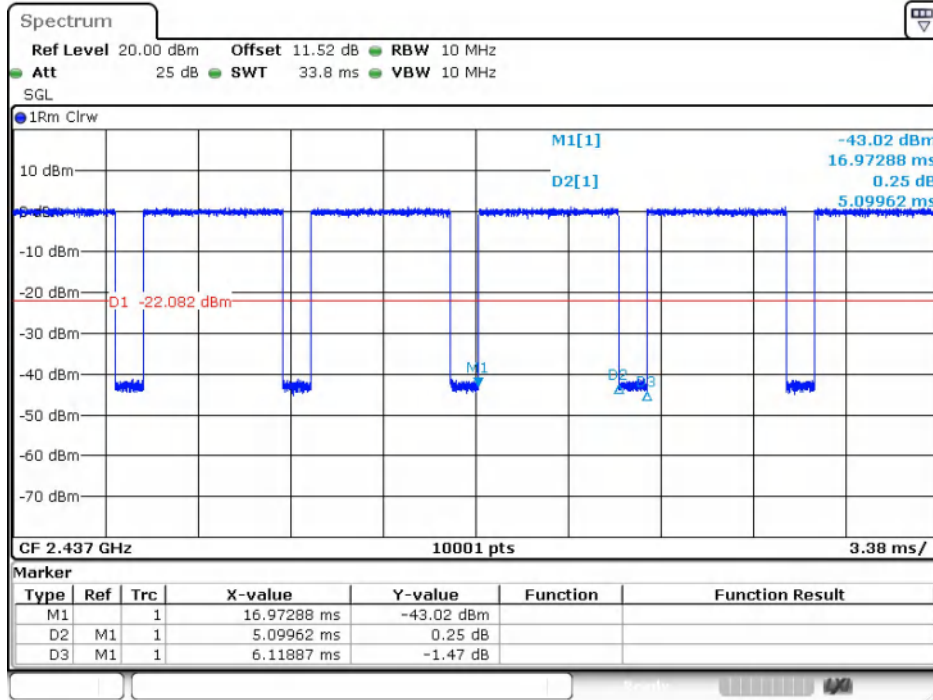
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IEEE 802.11g_20MHz_Channel 11



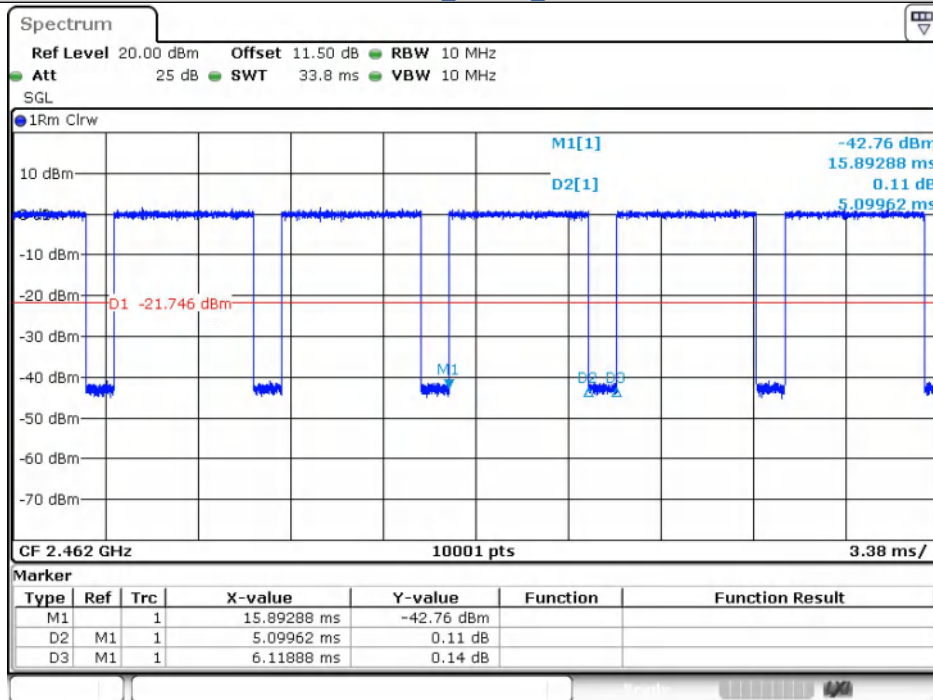
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IEEE 802.11n_20MHz_Channel 1



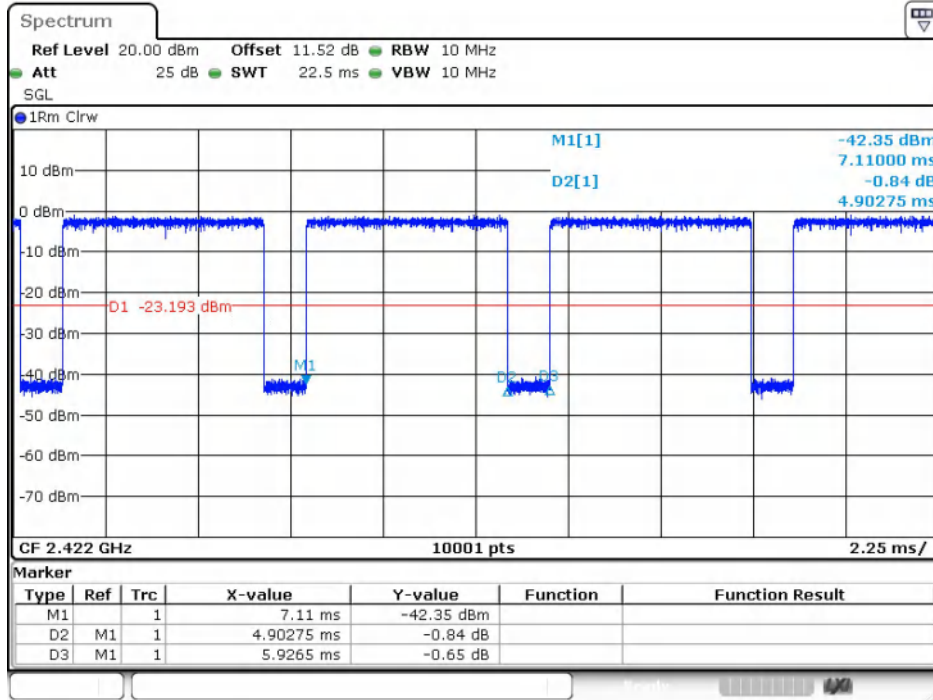
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IEEE 802.11n_20MHz_Channel 6



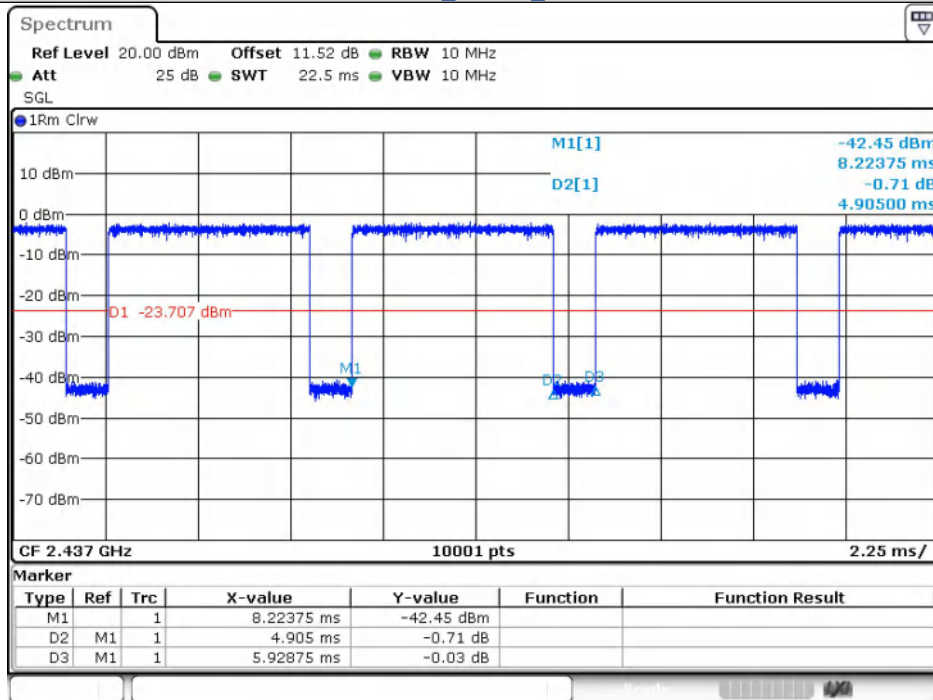
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IEEE 802.11n_20MHz_Channel 11



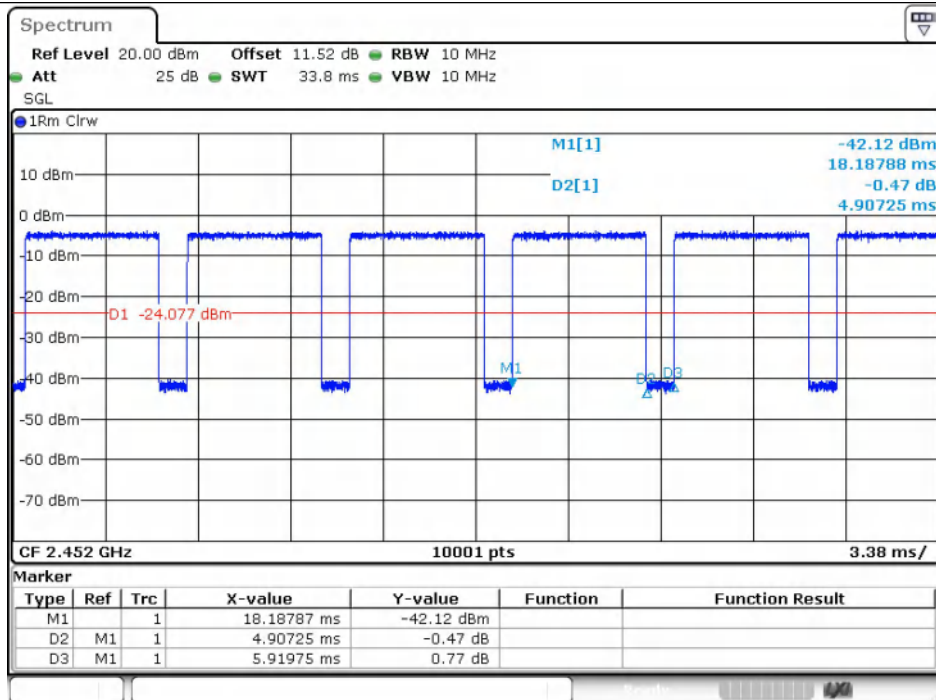
Date: 16.JUL.2024 11:20:54

IEEE 802.11n_40MHz_Channel 3



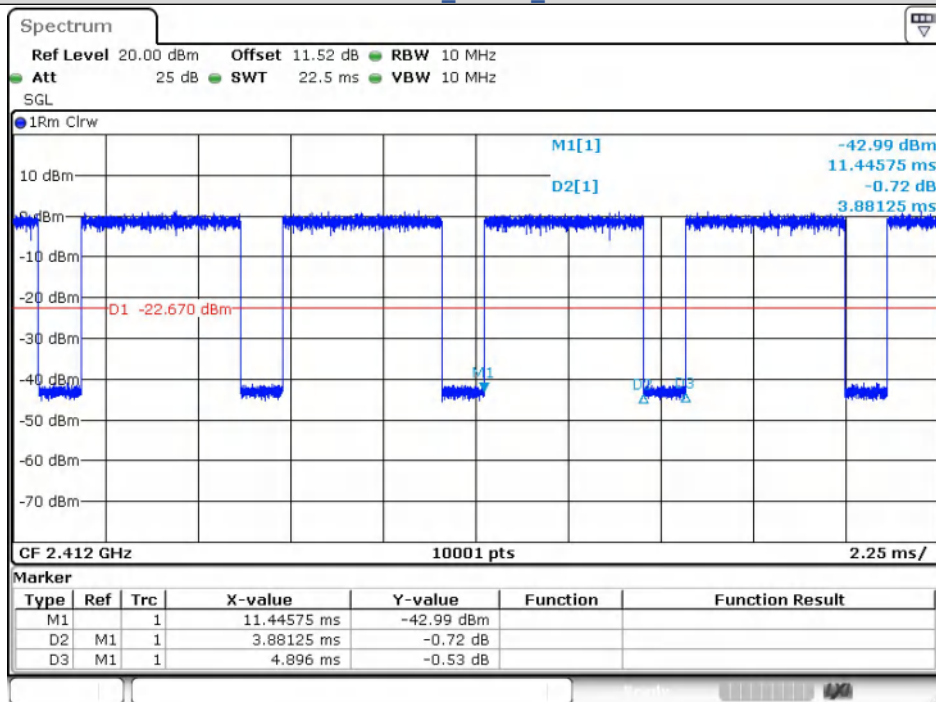
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IEEE 802.11n_40MHz_Channel 6



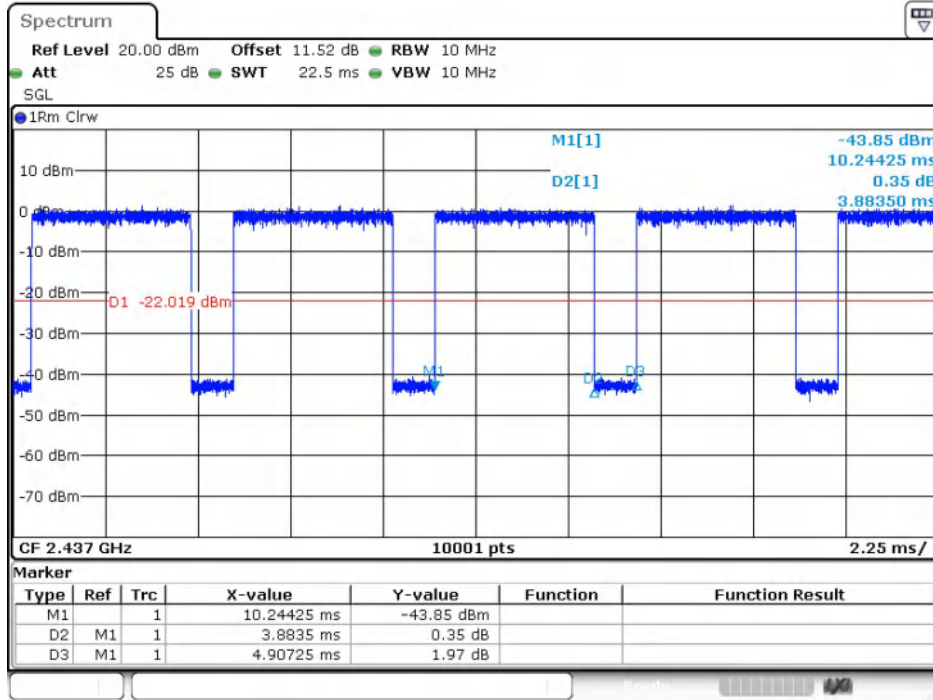
Date: 16.JUL.2024 11:26:19

IEEE 802.11n_40MHz_Channel 9



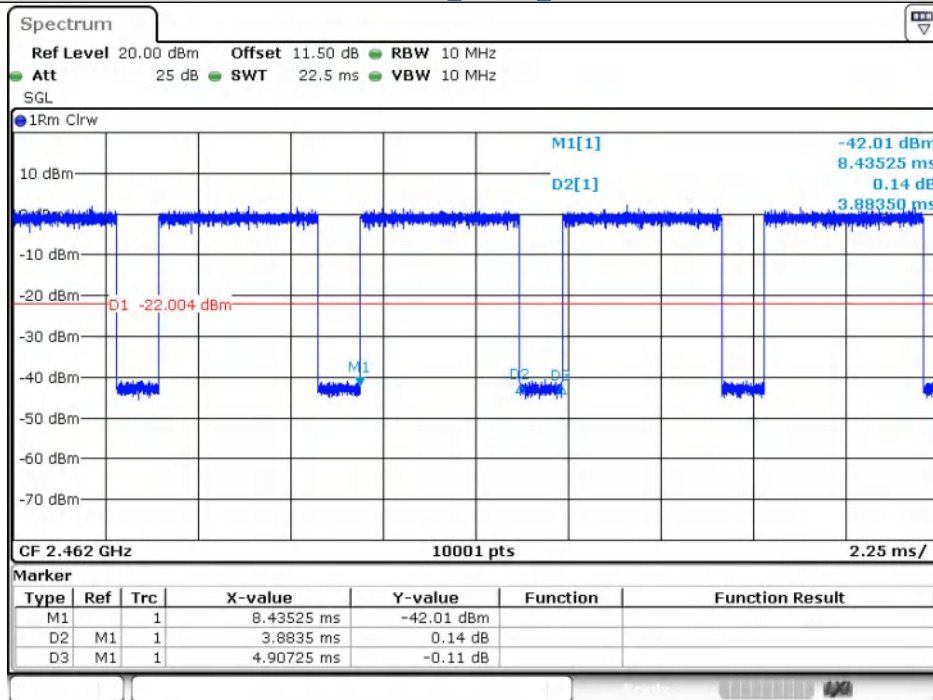
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IEEE 802.11ax_20MHz_Channel 1



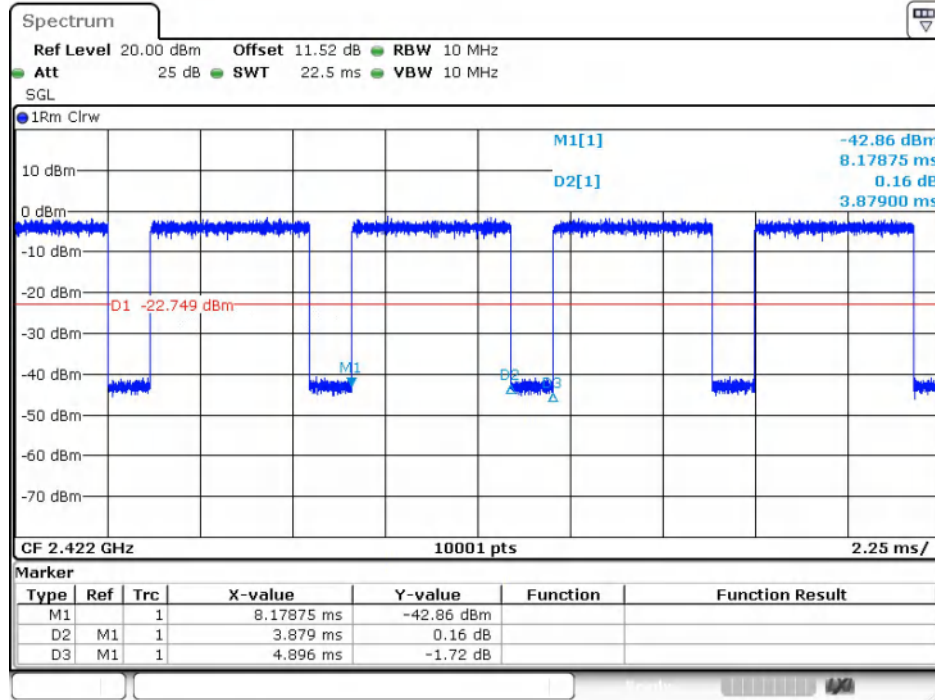
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IEEE 802.11ax_20MHz_Channel 6



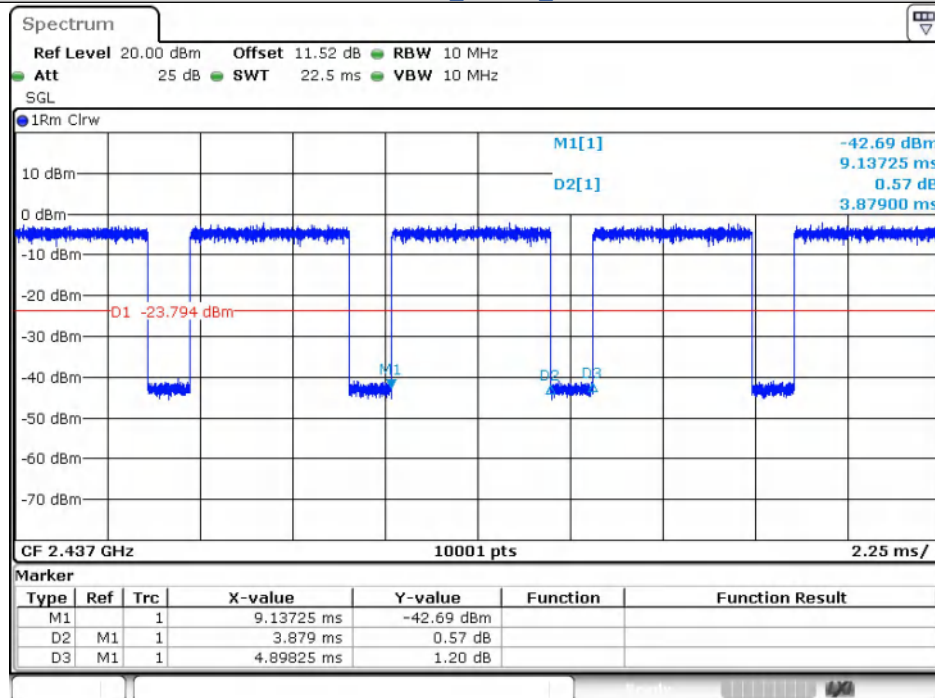
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IEEE 802.11ax_20MHz_Channel 11



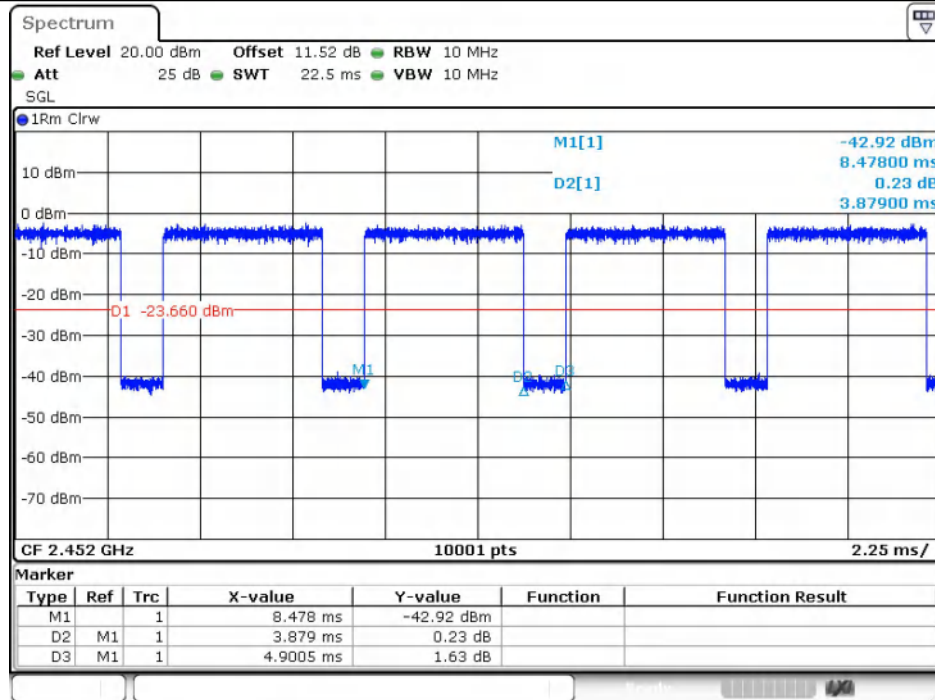
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IEEE 802.11ax_40MHz_Channel 3



Date: 16.JUL.2024 11:54:00

IEEE 802.11ax_40MHz_Channel 6



Date: 16.JUL.2024 11:58:58

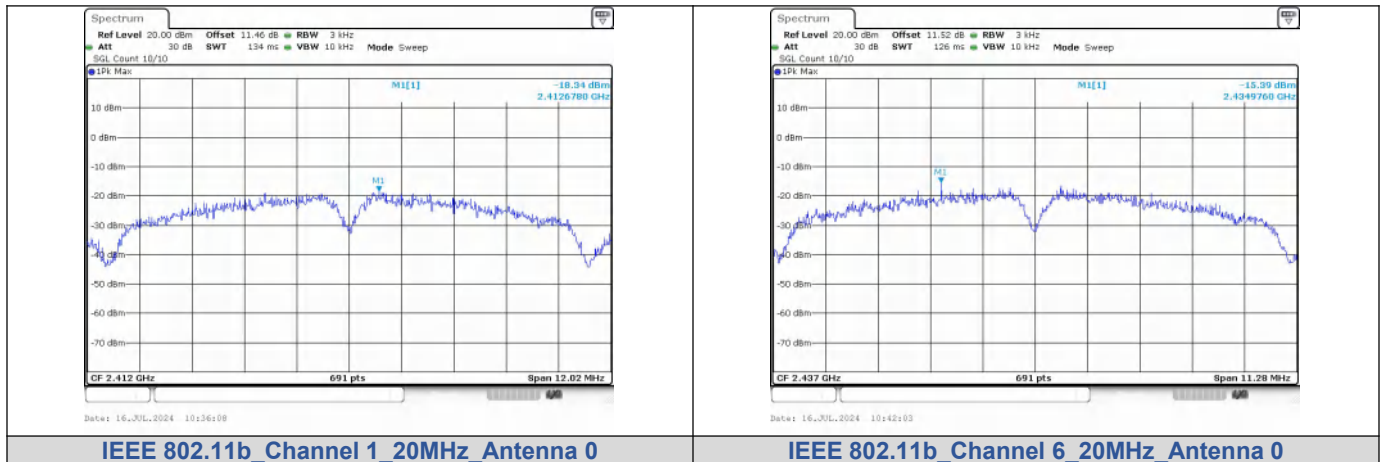
IEEE 802.11ax_40MHz_Channel 9

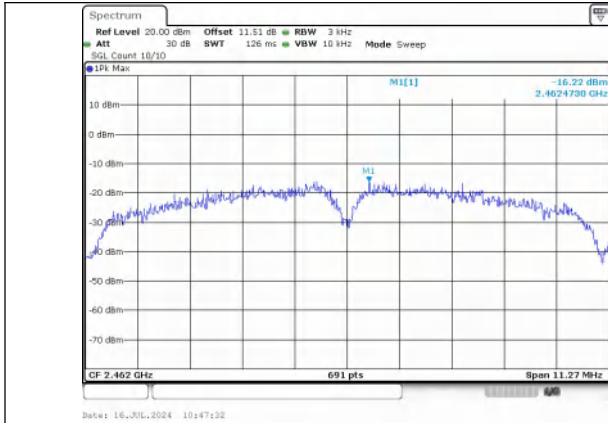
Power Spectral Density

Test Result

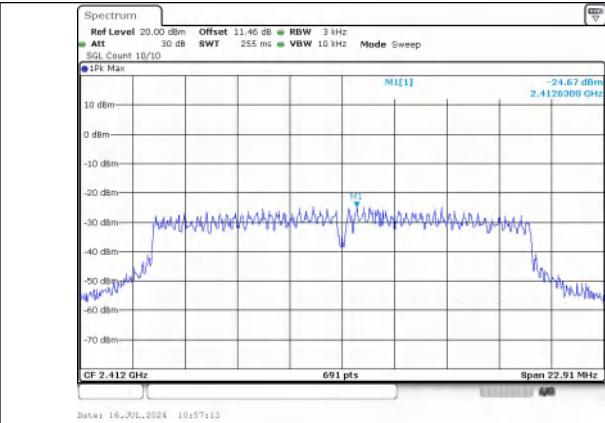
Mode	Channel	RU & Index	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	N/A	-18.340	≤8	PASS
	6		-15.387		PASS
	11		-16.224		PASS
IEEE 802.11g	1		-24.666		PASS
	6		-25.222		PASS
	11		-23.259		PASS
IEEE 802.11n_20	1		-23.292		PASS
	6		-24.326		PASS
	11		-22.938		PASS
IEEE 802.11n_40	3		-25.070		PASS
	6		-26.470		PASS
	9		-27.899		PASS
IEEE 802.11ax_20	1	SU	-25.684		PASS
	6		-25.935		PASS
	11		-24.522		PASS
IEEE 802.11ax_40	3		-27.180		PASS
	6		-28.701		PASS
	9		-28.808		PASS

Test Graphs

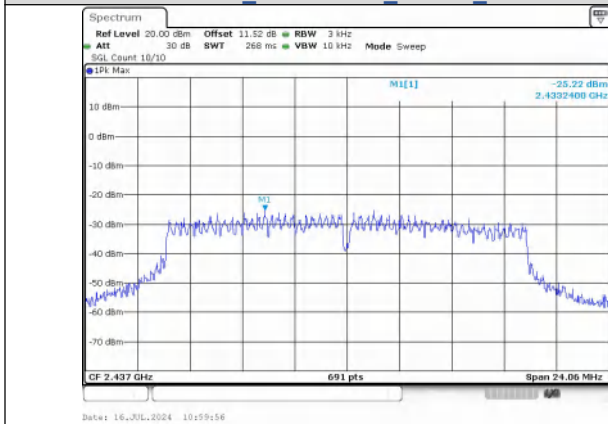




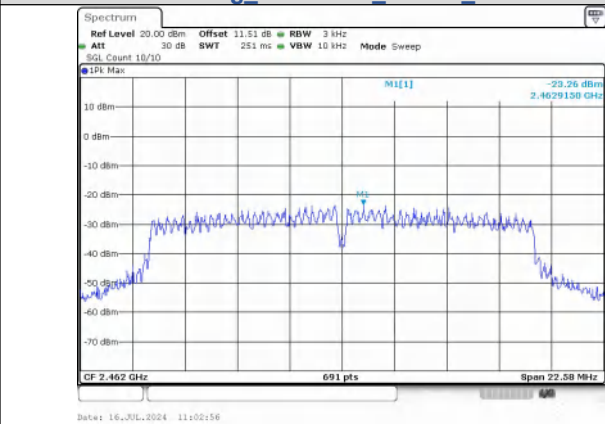
IEEE 802.11b_Channel 11_20MHz_Antenna 0



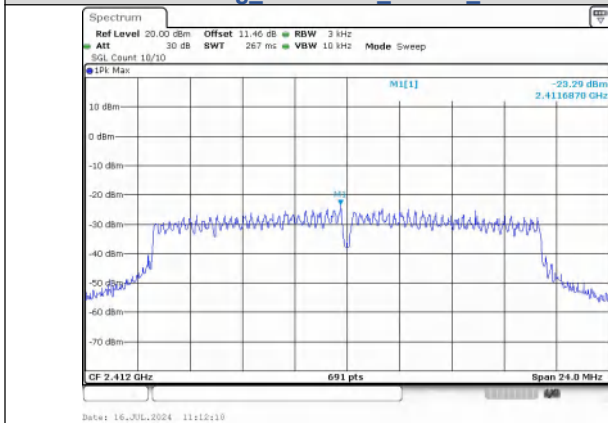
IEEE 802.11g_Channel 1_20MHz_Antenna 0



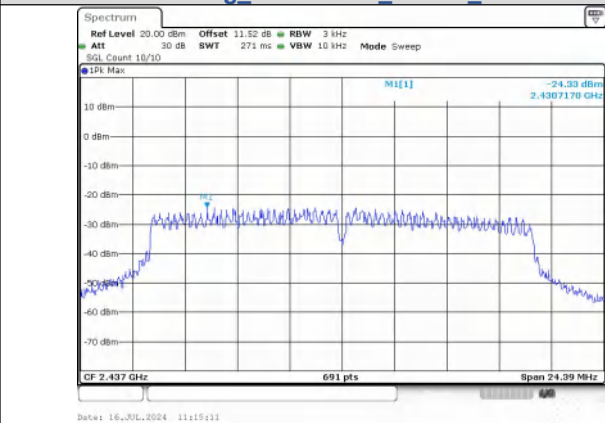
IEEE 802.11g_Channel 6_20MHz_Antenna 0



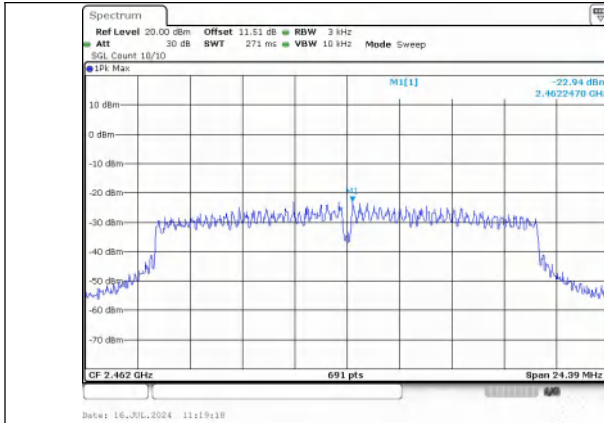
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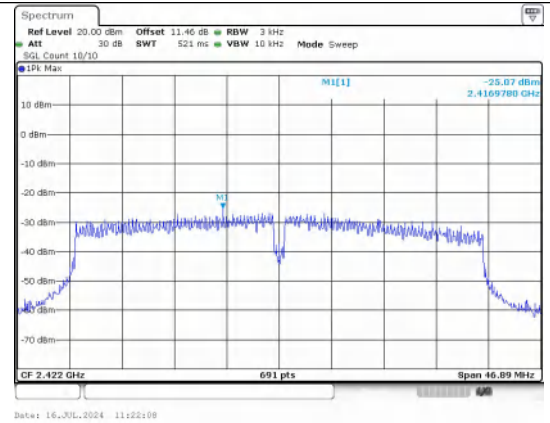
IEEE 802.11n_Channel 1_20MHz_Antenna 0



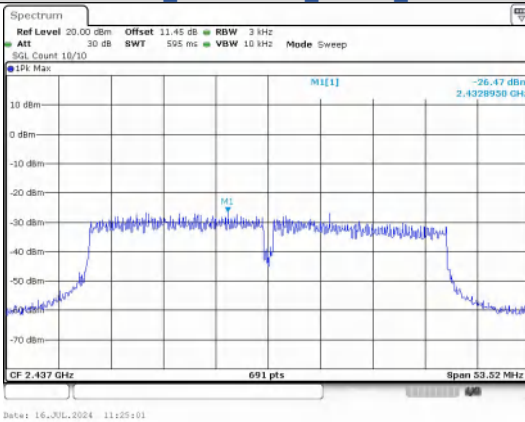
IEEE 802.11n_Channel 6_20MHz_Antenna 0



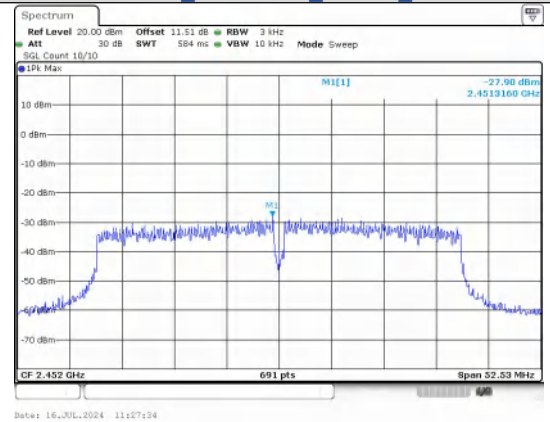
IEEE 802.11n_Channel 11_20MHz_Antenna 0



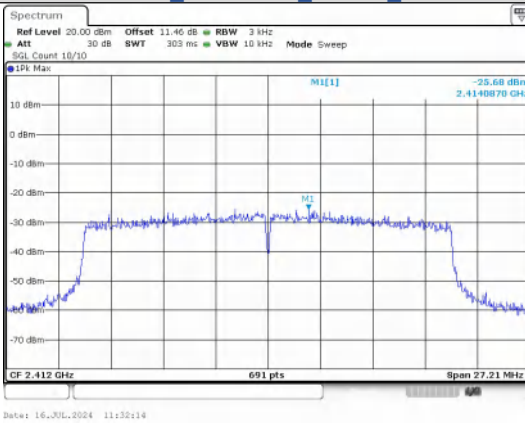
IEEE 802.11n_Channel 3_40MHz_Antenna 0



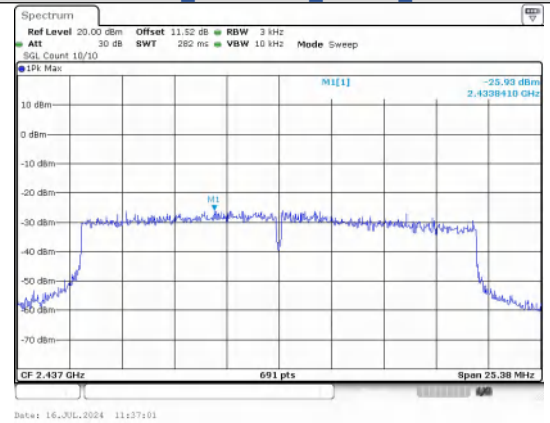
IEEE 802.11n_Channel 6_40MHz_Antenna 0



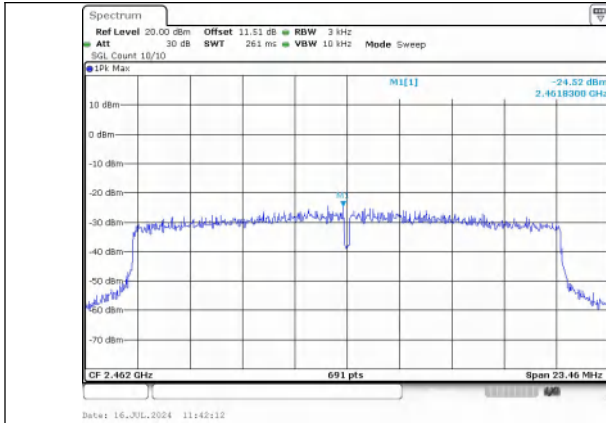
IEEE 802.11n_Channel 9_40MHz_Antenna 0



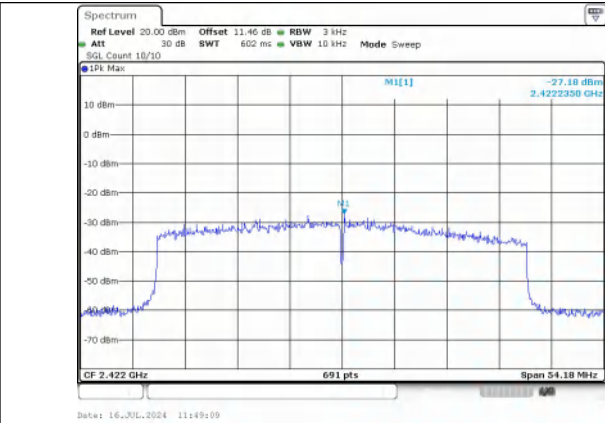
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index
SU



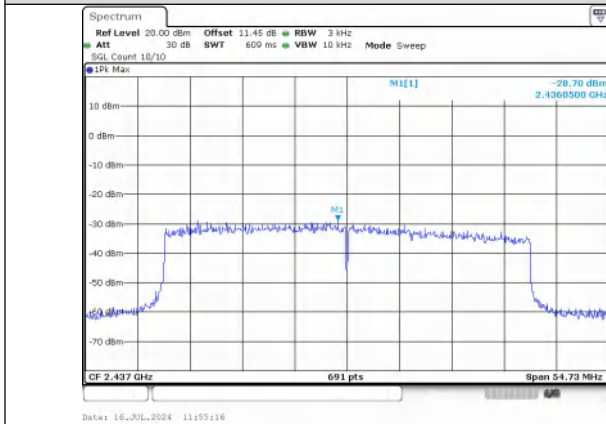
IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index
SU



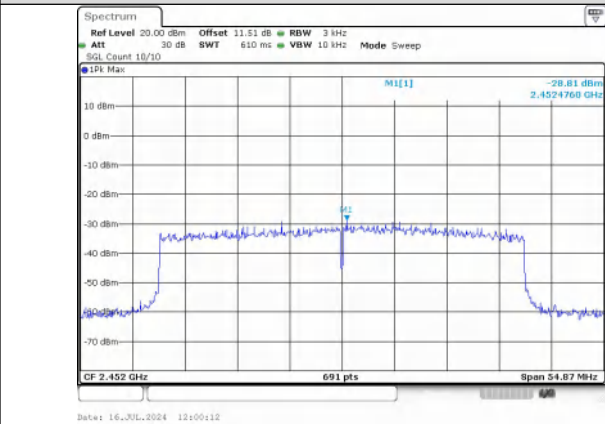
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index SU

Conducted Peak Output Power

Test Result

Conducted Output Power

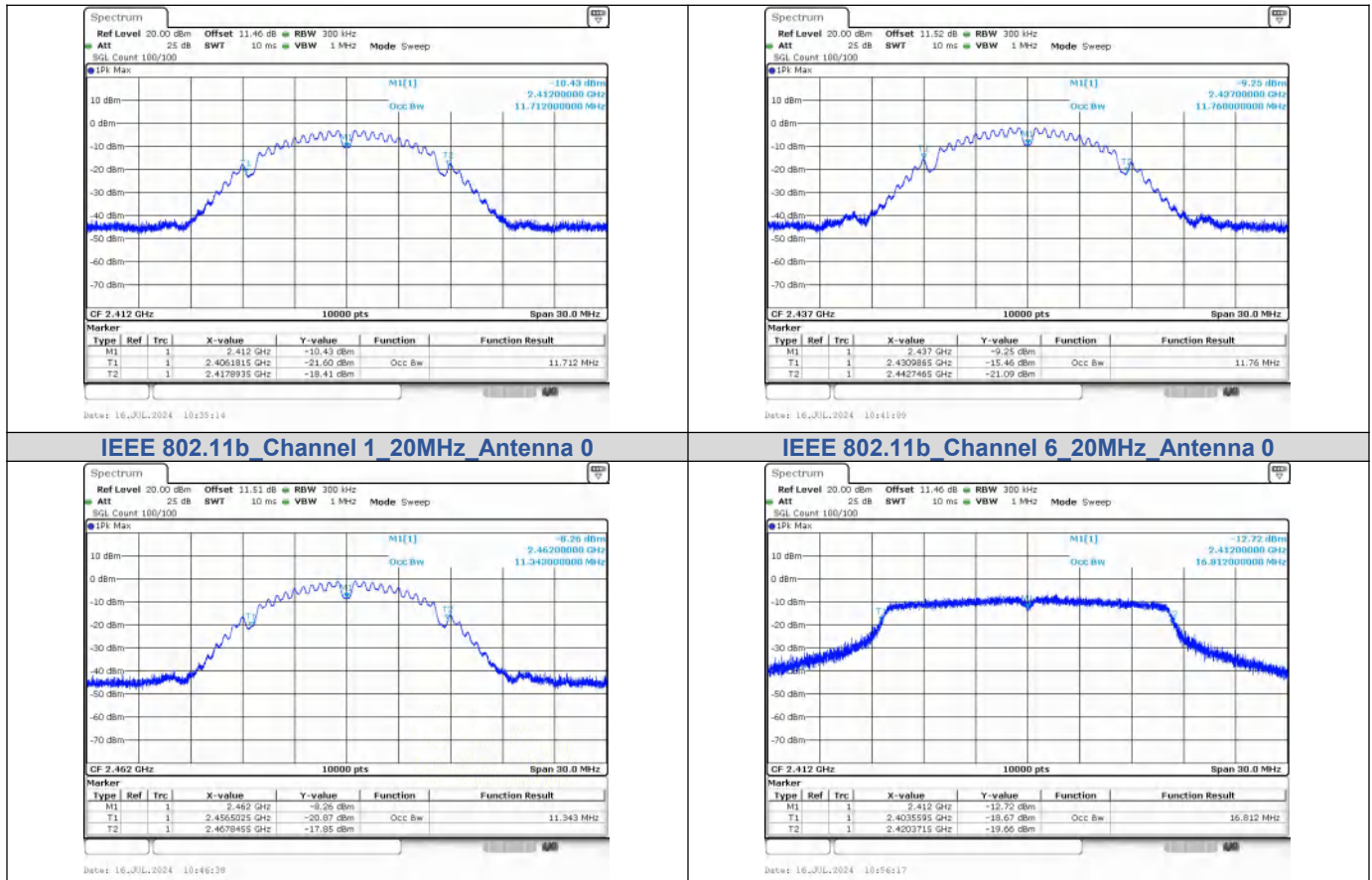
Mode	Channel	RU & Index	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	N/A	7.27	≤30	PASS
	6		8.19	≤30	PASS
	11		9.03	≤30	PASS
IEEE 802.11g	1		9.12	≤30	PASS
	6		8.08	≤30	PASS
	11		9.87	≤30	PASS
IEEE 802.11n_20	1		8.96	≤30	PASS
	6		9.65	≤30	PASS
	11		9.70	≤30	PASS
IEEE 802.11n_40	3		9.39	≤30	PASS
	6		9.41	≤30	PASS
	9		7.75	≤30	PASS
IEEE 802.11ax_20	1	SU	9.92	≤30	PASS
	6		9.83	≤30	PASS
	11		9.77	≤30	PASS
IEEE 802.11ax_40	3		9.42	≤30	PASS
	6		9.39	≤30	PASS
	9		8.83	≤30	PASS

99% Bandwidth

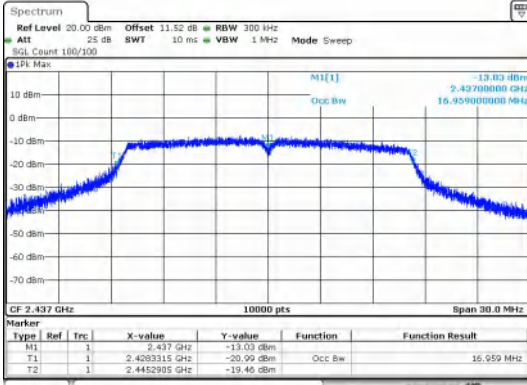
Test Result

Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	N/A	0	2412	11.712
	6			2437	11.760
	11			2462	11.343
IEEE 802.11g	1			2412	16.812
	6			2437	16.959
	11			2462	16.743
IEEE 802.11n_20	1			2412	18.015
	6			2437	18.096
	11			2462	17.886
IEEE 802.11n_40	3			2422	36.138
	6			2437	36.486
	9			2452	36.498
IEEE 802.11ax_20	1	SU		2412	19.014
	6			2437	19.077
	11			2462	18.954
IEEE 802.11ax_40	3			2422	37.548
	6			2437	37.854
	9			2452	37.824

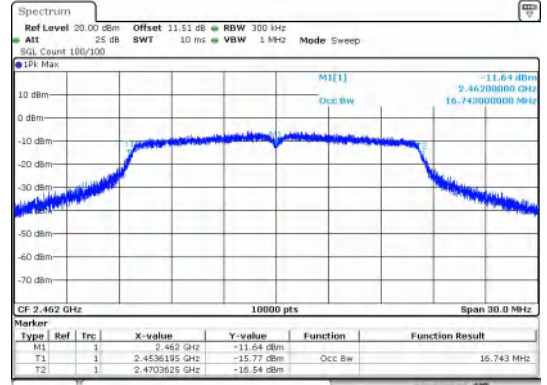
Test Graphs



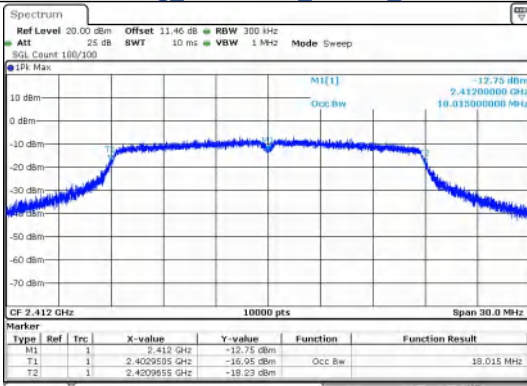
IEEE 802.11b Channel 11_20MHz_Antenna 0



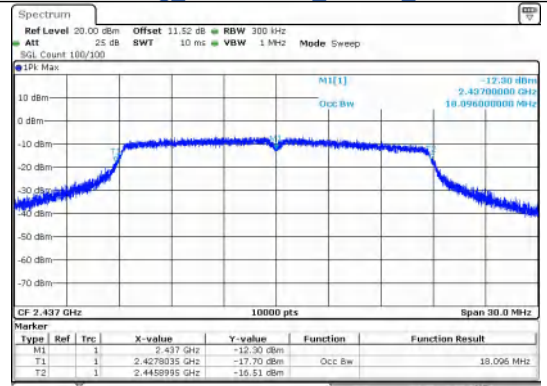
IEEE 802.11g Channel 1_20MHz_Antenna 0



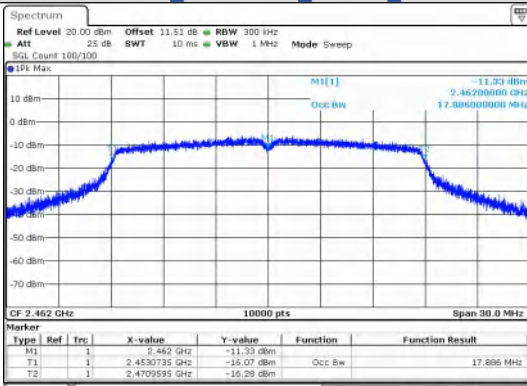
IEEE 802.11g Channel 6_20MHz_Antenna 0



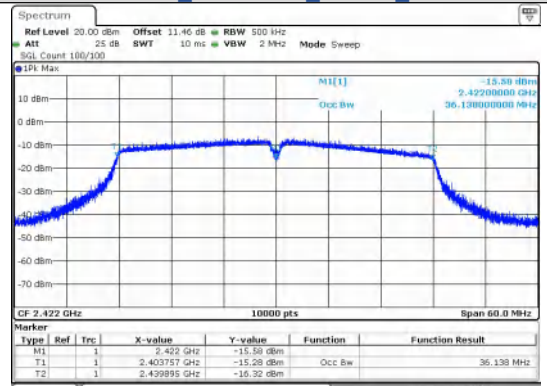
IEEE 802.11g Channel 11_20MHz_Antenna 0



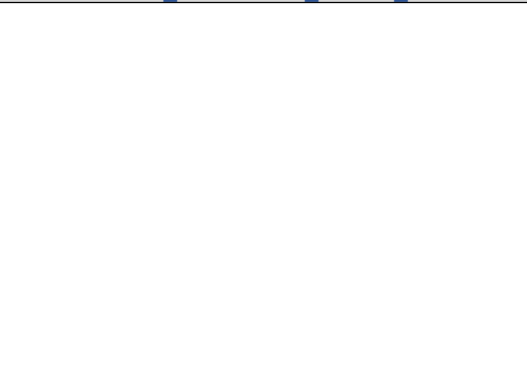
IEEE 802.11n Channel 1_20MHz_Antenna 0



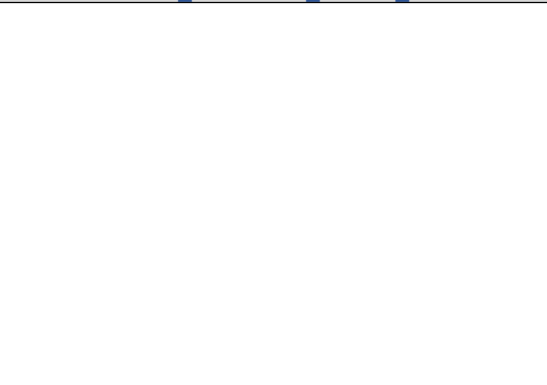
IEEE 802.11n Channel 6_20MHz_Antenna 0

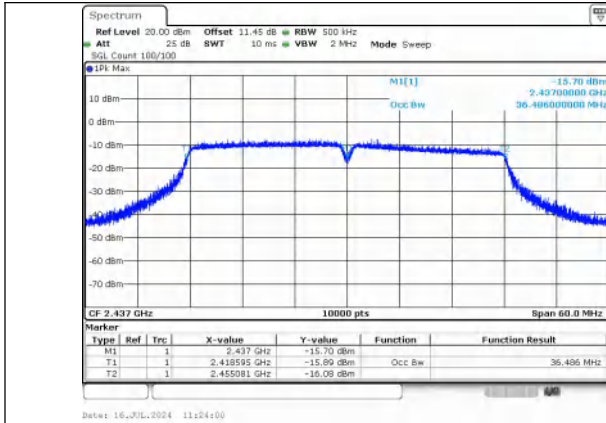


IEEE 802.11n Channel 11_20MHz_Antenna 0

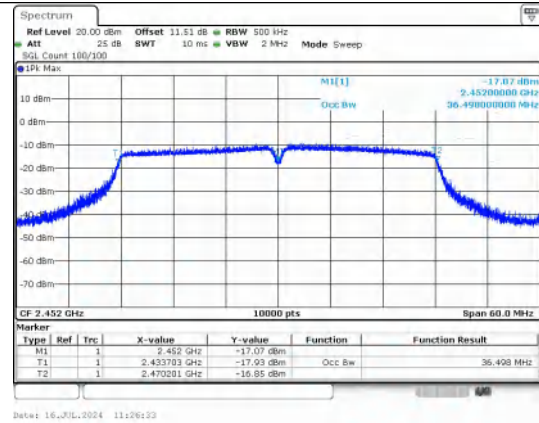


IEEE 802.11n Channel 3_40MHz_Antenna 0

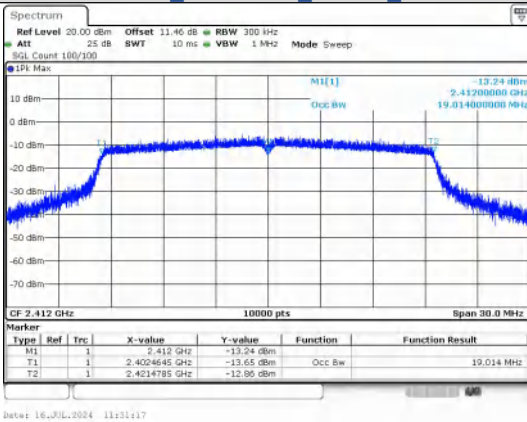




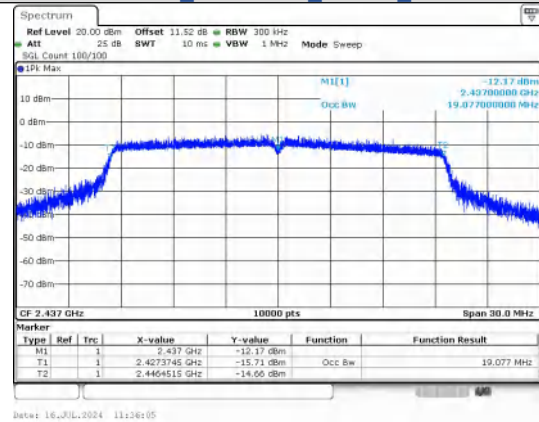
IEEE 802.11n_Channel 6_40MHz_Antenna 0



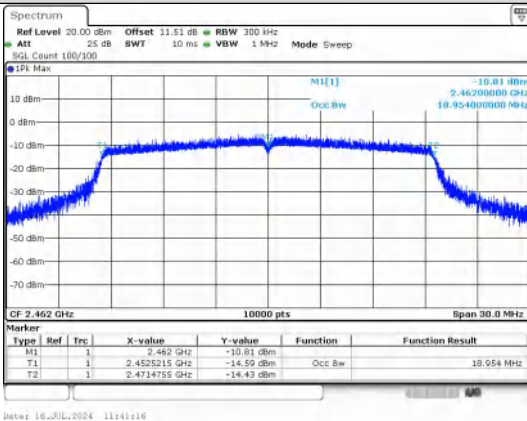
IEEE 802.11n_Channel 9_40MHz_Antenna 0



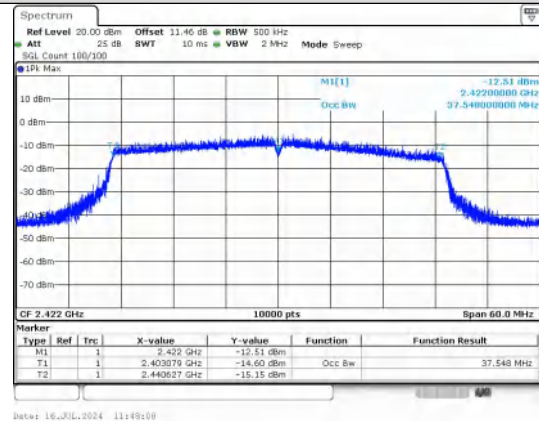
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



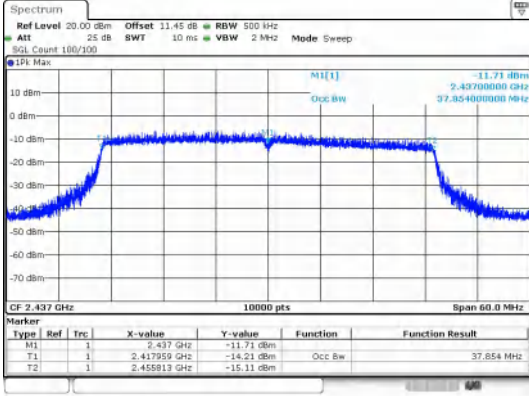
IEEE 802.11ax_Channel 9_20MHz_Antenna 0_RU&Index SU



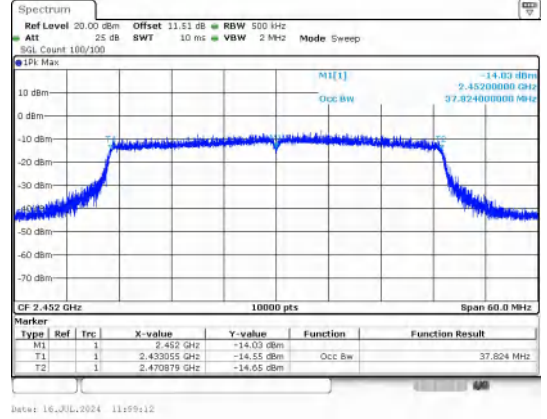
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index
SU



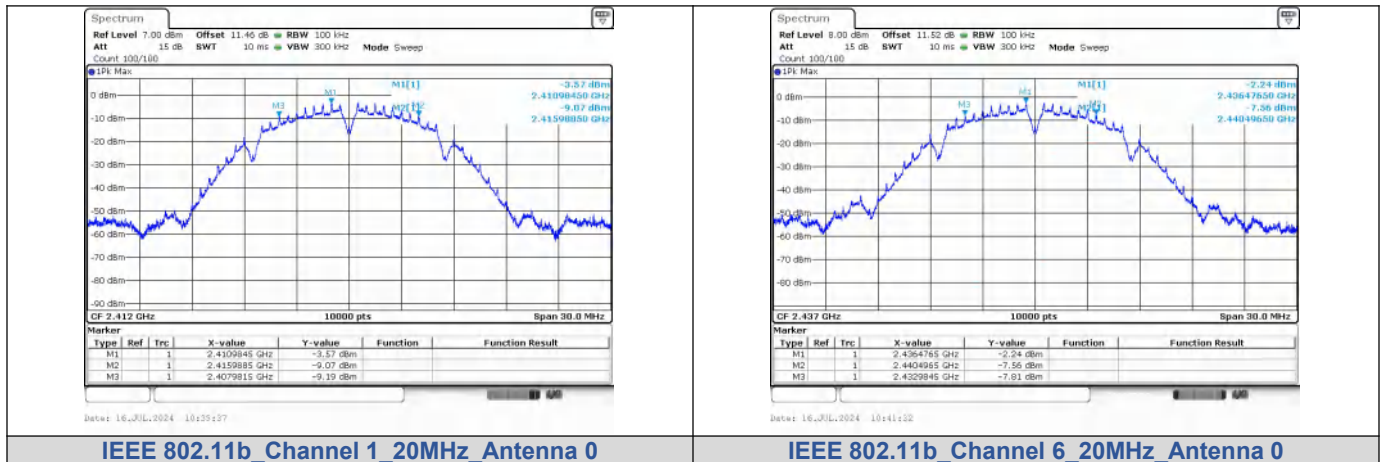
IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index
SU

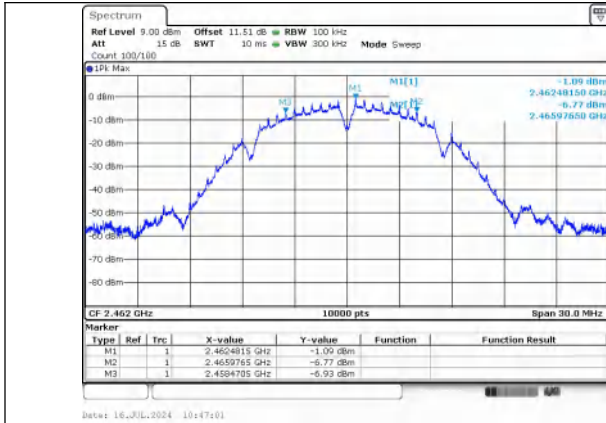
6dB Bandwidth

Test Result

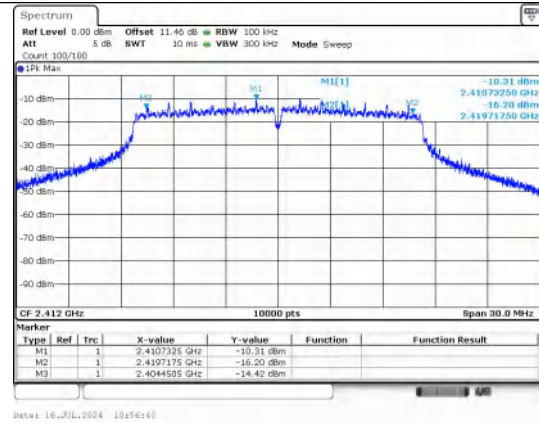
Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	N/A	0	2412	8.010	≥0.5	PASS
	6			2437	7.520		PASS
	11			2462	7.510		PASS
IEEE 802.11g	1			2412	15.27		PASS
	6			2437	16.04		PASS
	11			2462	15.05		PASS
IEEE 802.11n_20	1			2412	16.00		PASS
	6			2437	16.26		PASS
	11			2462	16.26		PASS
IEEE 802.11n_40	3			2422	31.26		PASS
	6			2437	35.68		PASS
	9			2452	35.02		PASS
IEEE 802.11ax_20	1	SU		2412	18.14		PASS
	6			2437	16.92		PASS
	11			2462	15.64		PASS
IEEE 802.11ax_40	3			2422	36.12		PASS
	6			2437	36.49		PASS
	9			2452	36.58		PASS

Test Graphs

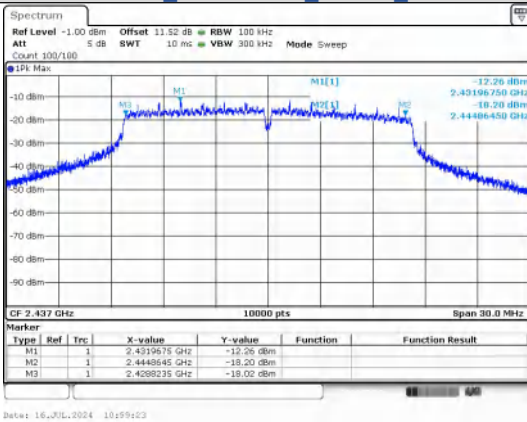




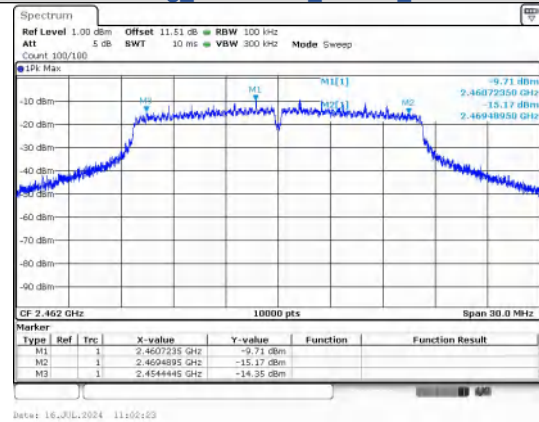
IEEE 802.11b Channel 11 20MHz Antenna 0



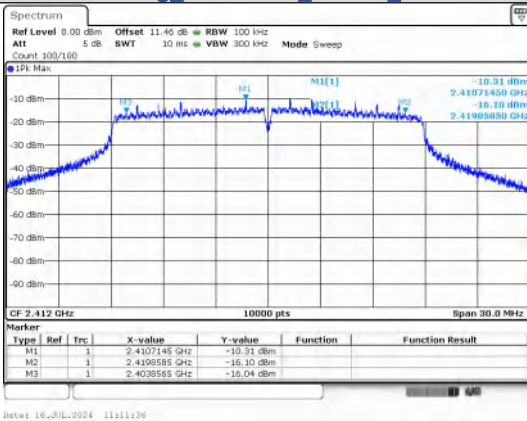
IEEE 802.11g Channel 1 20MHz Antenna 0



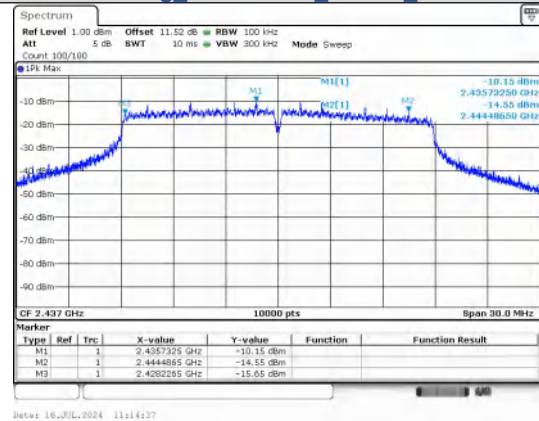
IEEE 802.11g Channel 6 20MHz Antenna 0



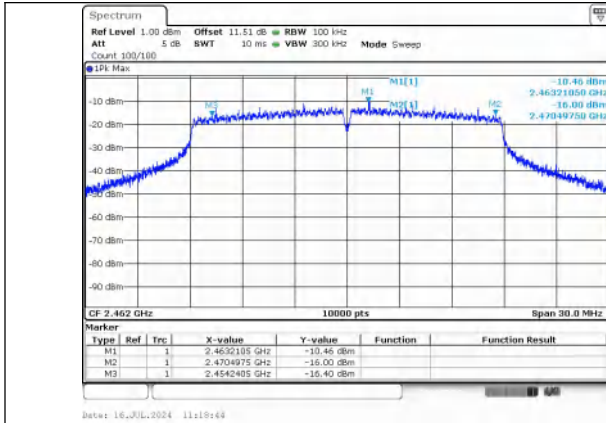
IEEE 802.11g Channel 11 20MHz Antenna 0



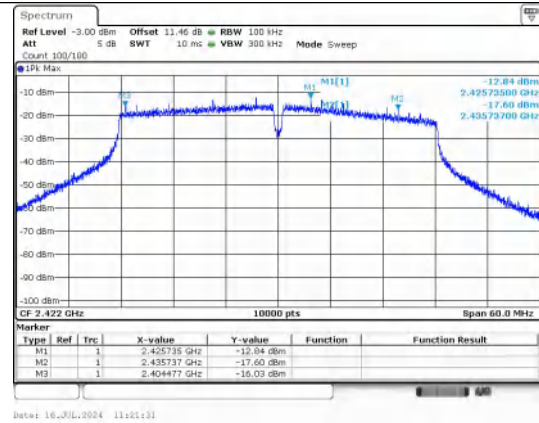
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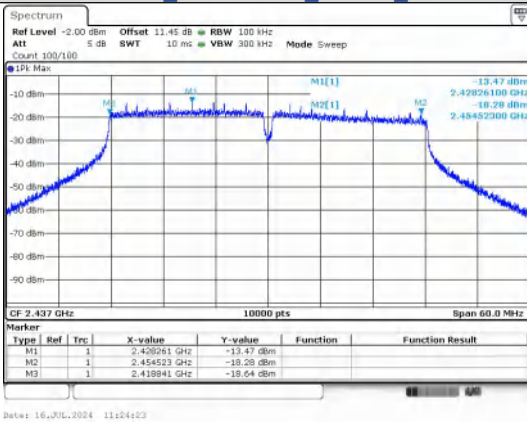
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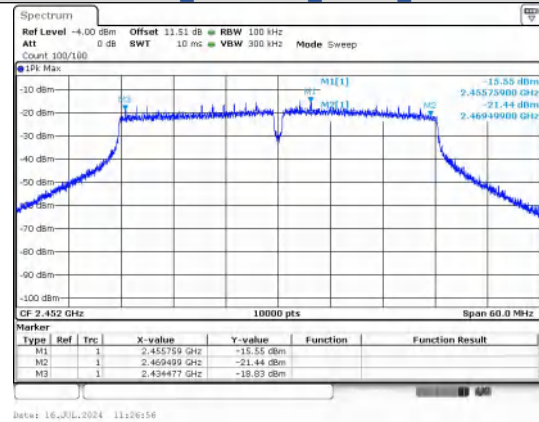
IEEE 802.11n_Channel 11_20MHz_Antenna 0



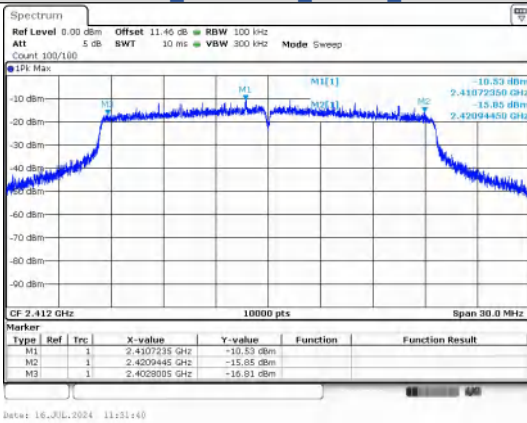
IEEE 802.11n_Channel 3_40MHz_Antenna 0



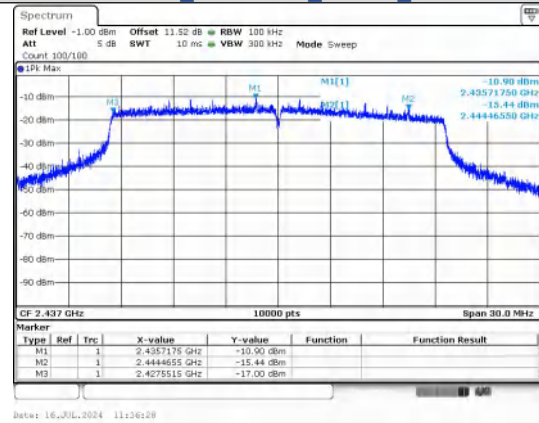
IEEE 802.11n_Channel 6_40MHz_Antenna 0



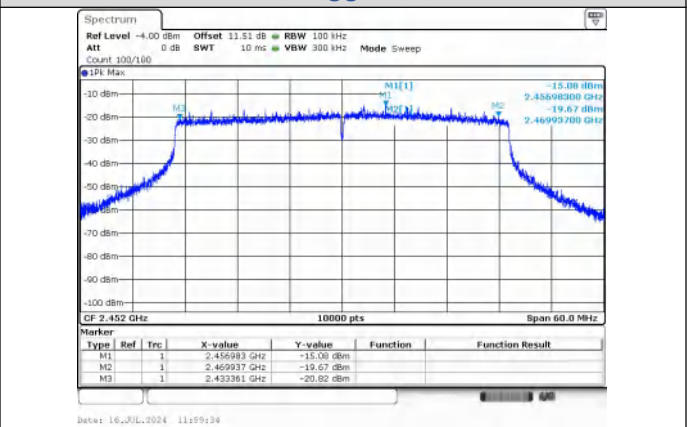
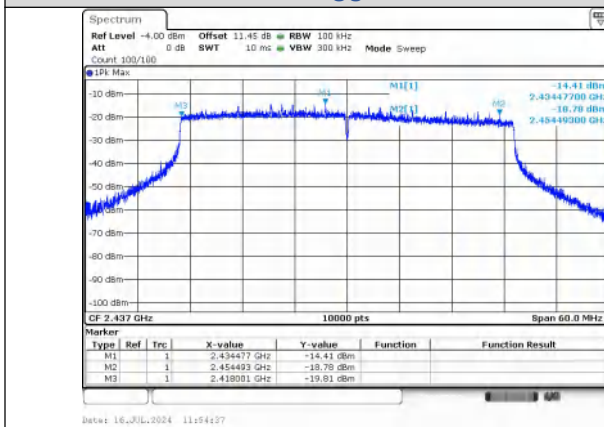
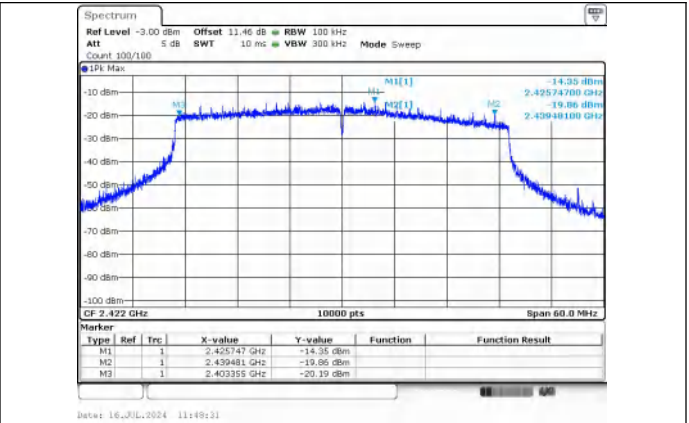
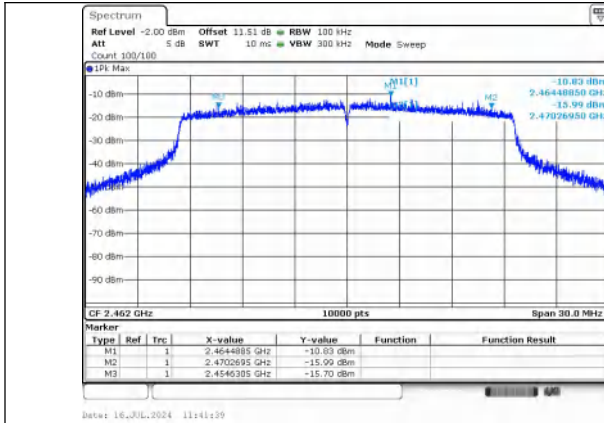
IEEE 802.11n_Channel 9_40MHz_Antenna 0



IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU

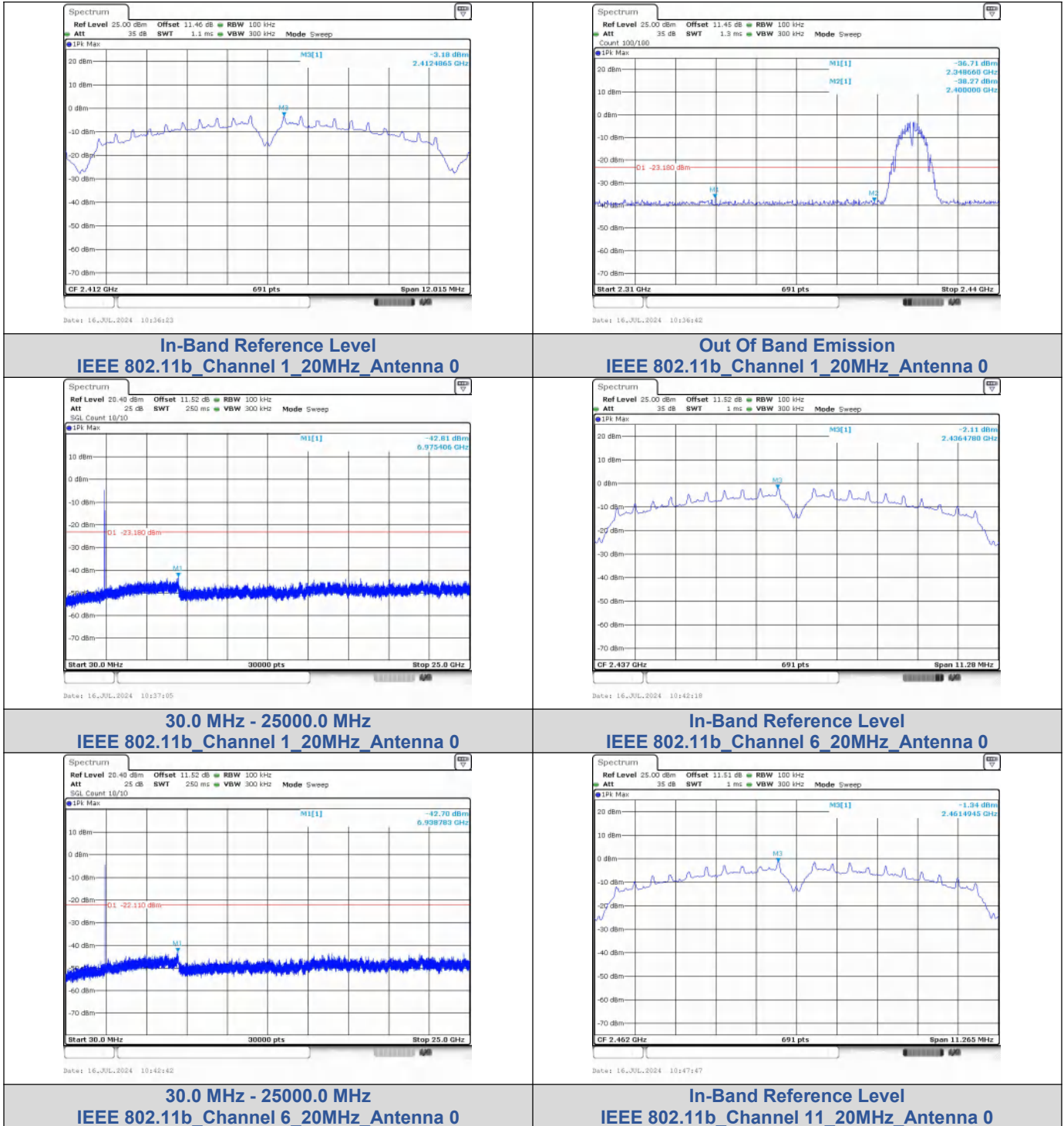


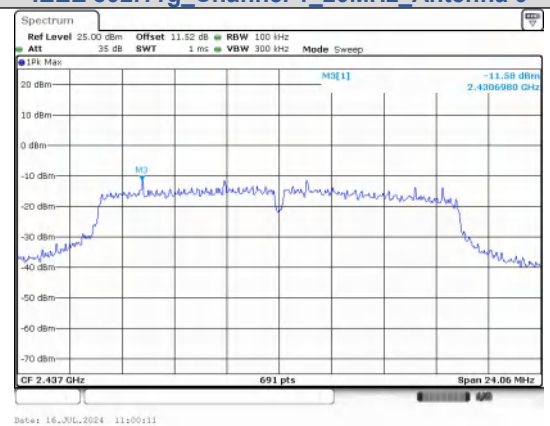
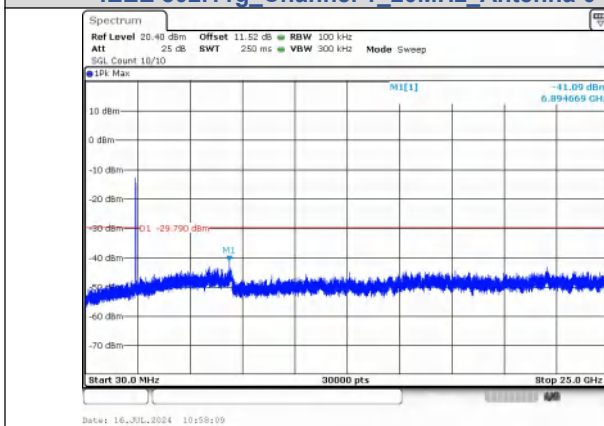
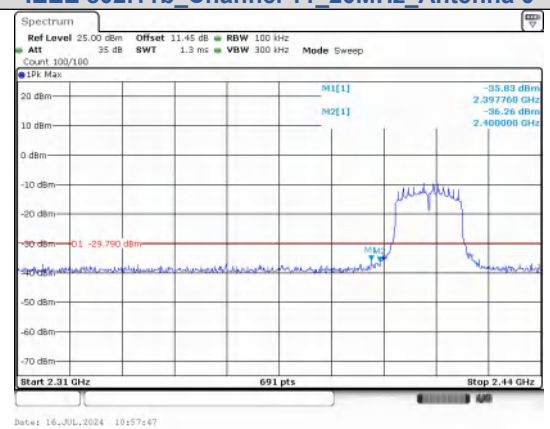
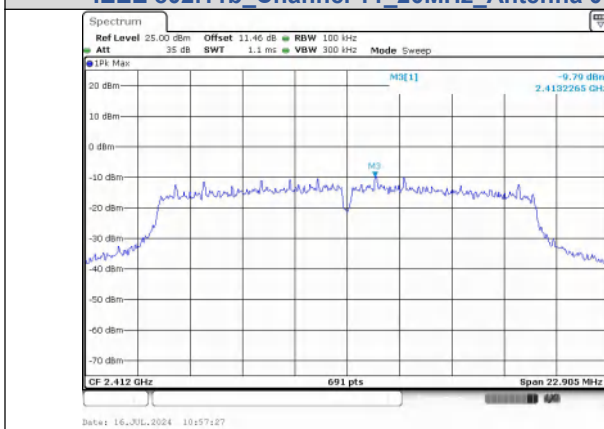
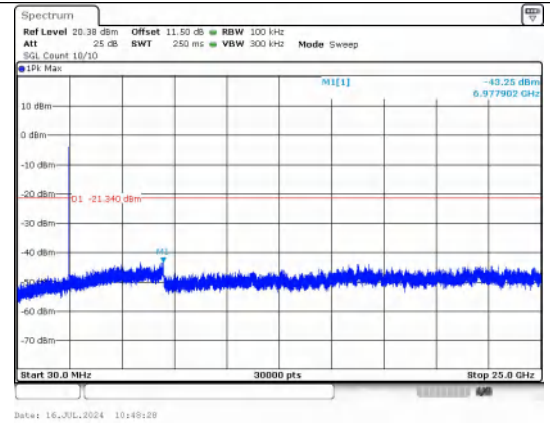
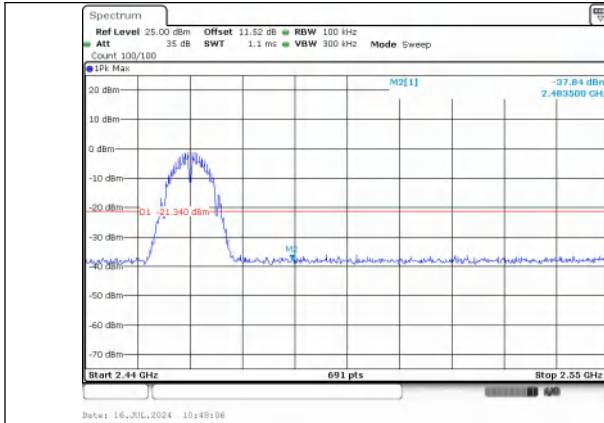
Conducted Out Of Band Emission

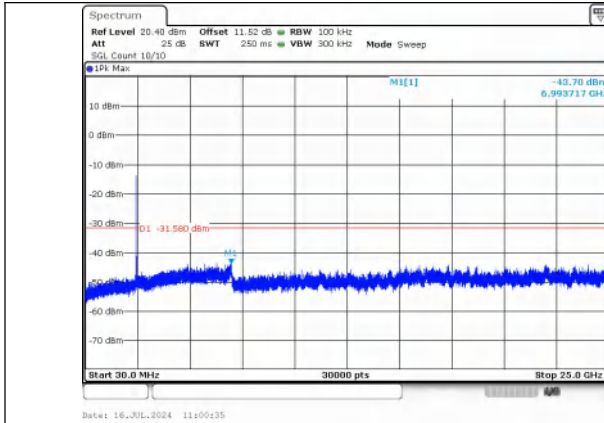
Test Result

Mode	Channel	RU & Index	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	N/A	0	2348.66	-36.707	-23.18	-13.527	PASS
				2400.00	-38.273	-23.18	-15.093	PASS
	6975.40			-42.812	-23.18	-19.632	PASS	
	6938.78			-42.699	-22.11	-20.589	PASS	
	2483.50			-37.838	-21.34	-16.498	PASS	
6977.90	-43.248			-21.34	-21.908	PASS		
2397.76	-35.830			-29.79	-6.040	PASS		
2400.00	-36.264			-29.79	-6.474	PASS		
6894.70	-41.095			-29.79	-11.305	PASS		
6993.72	-43.703			-31.58	-12.123	PASS		
2483.50	-37.788			-29.37	-8.418	PASS		
6928.79	-43.305			-29.37	-13.935	PASS		
2398.70	-36.379			-30.09	-6.289	PASS		
2400.00	-36.590			-30.09	-6.500	PASS		
6317.00	-43.231			-30.09	-13.141	PASS		
6998.71	-43.182			-30.58	-12.602	PASS		
2483.50	-38.413			-29.54	-8.873	PASS		
6302.05	-42.789			-29.54	-13.249	PASS		
2374.62	-36.345			-32.36	-3.985	PASS		
2400.00	-37.242			-32.36	-4.882	PASS		
6899.70	-43.161			-32.36	-10.801	PASS		
6933.79	-42.927			-32.11	-10.817	PASS		
2483.50	-37.796			-34.07	-3.726	PASS		
22023.2	-41.841			-34.07	-7.771	PASS		
2337.94	-36.858	-30.95	-5.908	PASS				
2400.00	-37.430	-30.95	-6.480	PASS				
6933.00	-42.619	-30.95	-11.669	PASS				
6931.29	-43.369	-30.91	-12.459	PASS				
2483.50	-37.804	-30.83	-6.974	PASS				
6866.37	-43.024	-30.83	-12.194	PASS				
2373.49	-36.441	-32.44	-4.001	PASS				
2400.00	-38.923	-32.44	-6.483	PASS				
6939.60	-42.260	-32.44	-9.820	PASS				
6950.44	-43.047	-33.29	-9.757	PASS				
2483.50	-38.499	-34.14	-4.359	PASS				
6914.65	-42.763	-34.14	-8.623	PASS				
IEEE 802.11ax_20	1	SU	0	2337.94	-36.858	-30.95	-5.908	PASS
	2400.00			-37.430	-30.95	-6.480	PASS	
	6933.00			-42.619	-30.95	-11.669	PASS	
	6931.29			-43.369	-30.91	-12.459	PASS	
	2483.50			-37.804	-30.83	-6.974	PASS	
6866.37	-43.024			-30.83	-12.194	PASS		
2373.49	-36.441			-32.44	-4.001	PASS		
2400.00	-38.923			-32.44	-6.483	PASS		
6939.60	-42.260			-32.44	-9.820	PASS		
6950.44	-43.047			-33.29	-9.757	PASS		
2483.50	-38.499			-34.14	-4.359	PASS		
6914.65	-42.763			-34.14	-8.623	PASS		
IEEE 802.11ax_40	3	SU	0	2373.49	-36.441	-32.44	-4.001	PASS
	2400.00			-38.923	-32.44	-6.483	PASS	
	6939.60			-42.260	-32.44	-9.820	PASS	
	6950.44			-43.047	-33.29	-9.757	PASS	
	2483.50			-38.499	-34.14	-4.359	PASS	

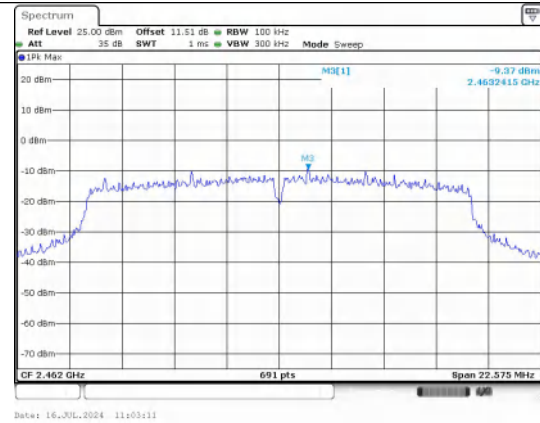
Test Graphs



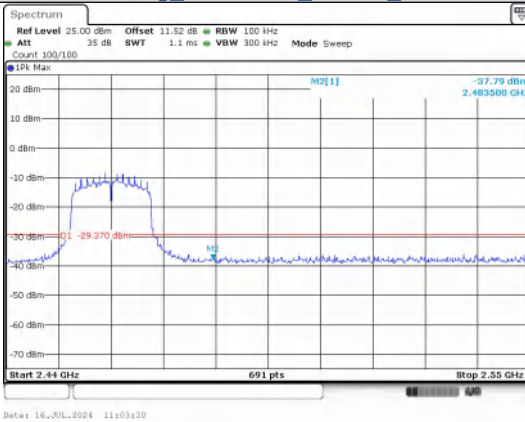




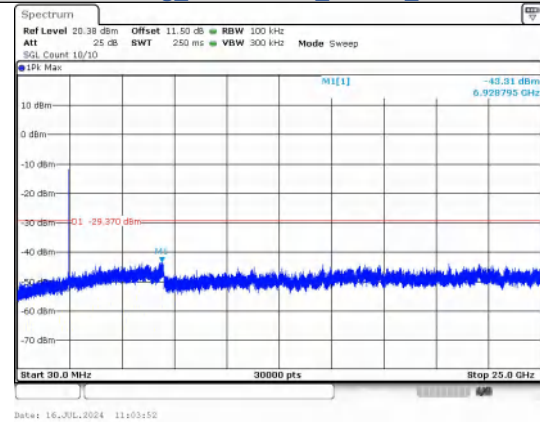
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



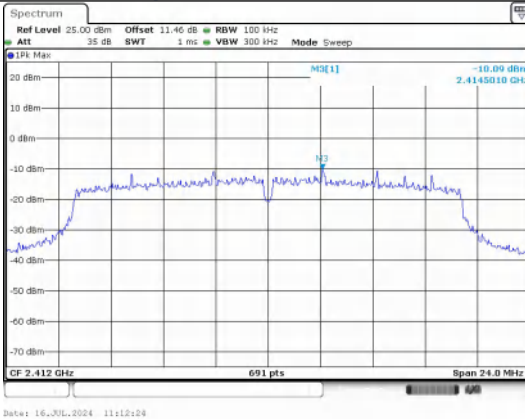
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



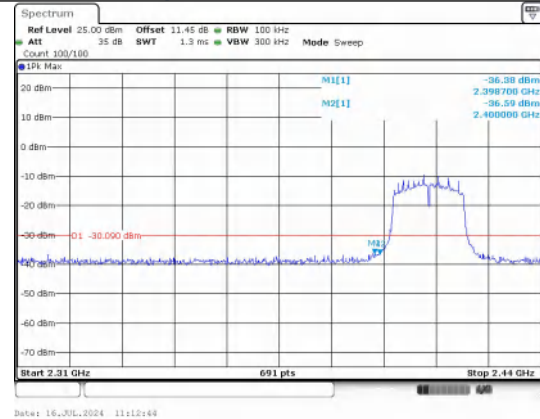
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



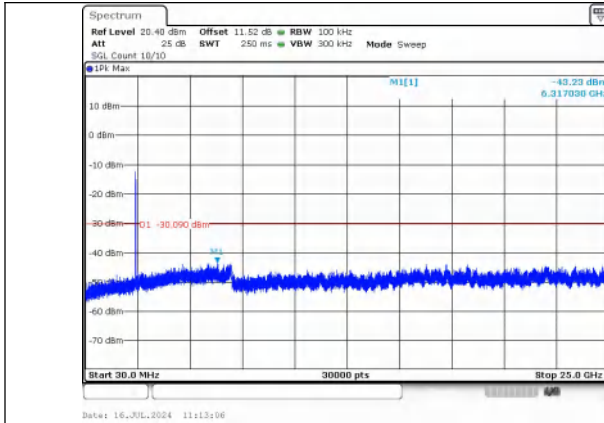
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IEEE 802.11g_Channel 11_20MHz_Antenna 0



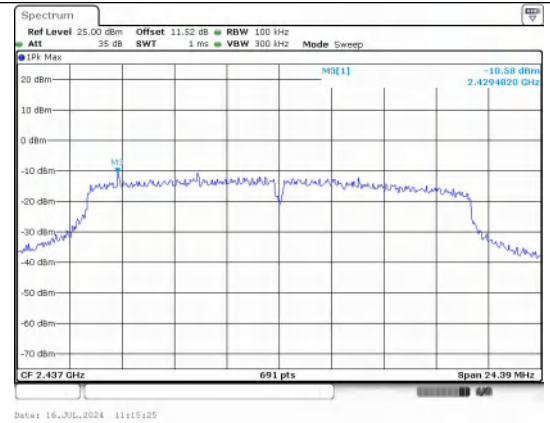
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



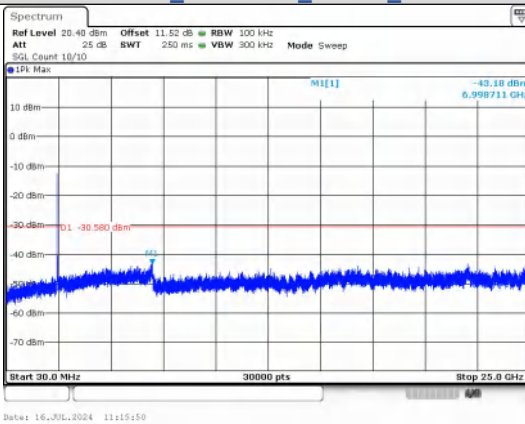
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



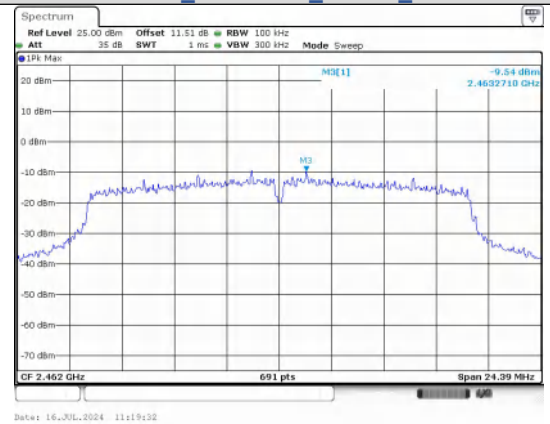
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IEEE 802.11n_Channel 1_20MHz_Antenna 0



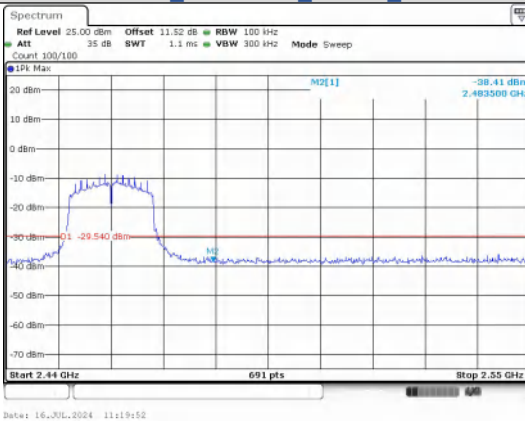
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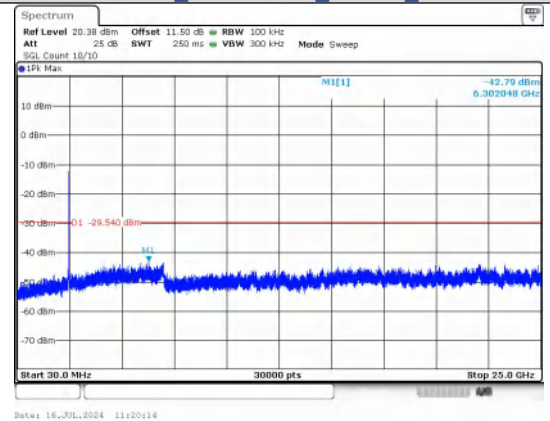
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IEEE 802.11n_Channel 6_20MHz_Antenna 0



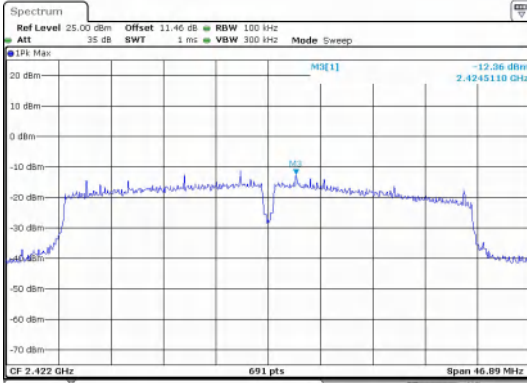
In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0

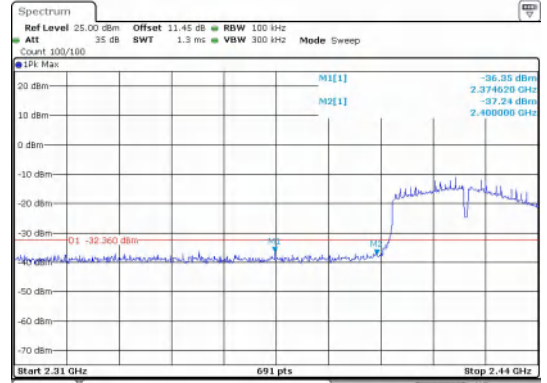


30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



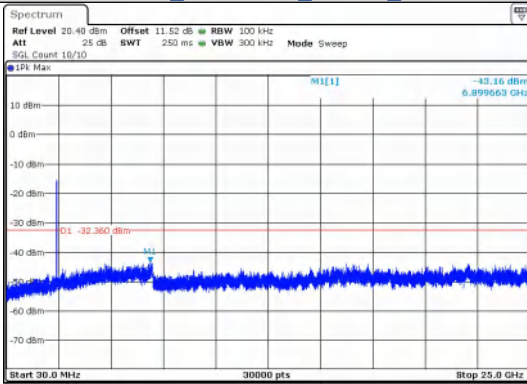
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In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



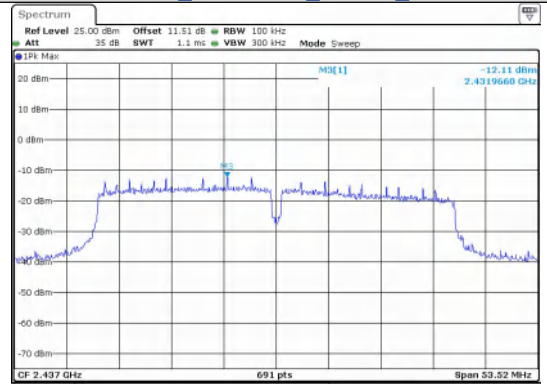
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Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



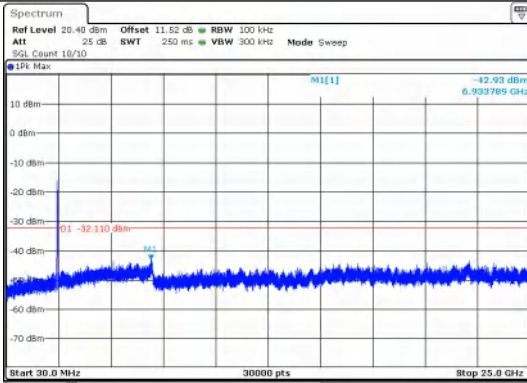
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IEEE 802.11n_Channel 3_40MHz_Antenna 0



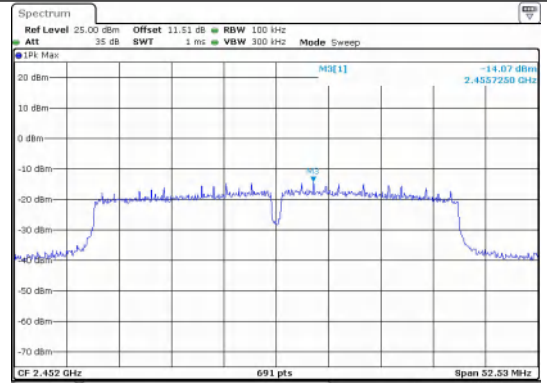
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In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 0



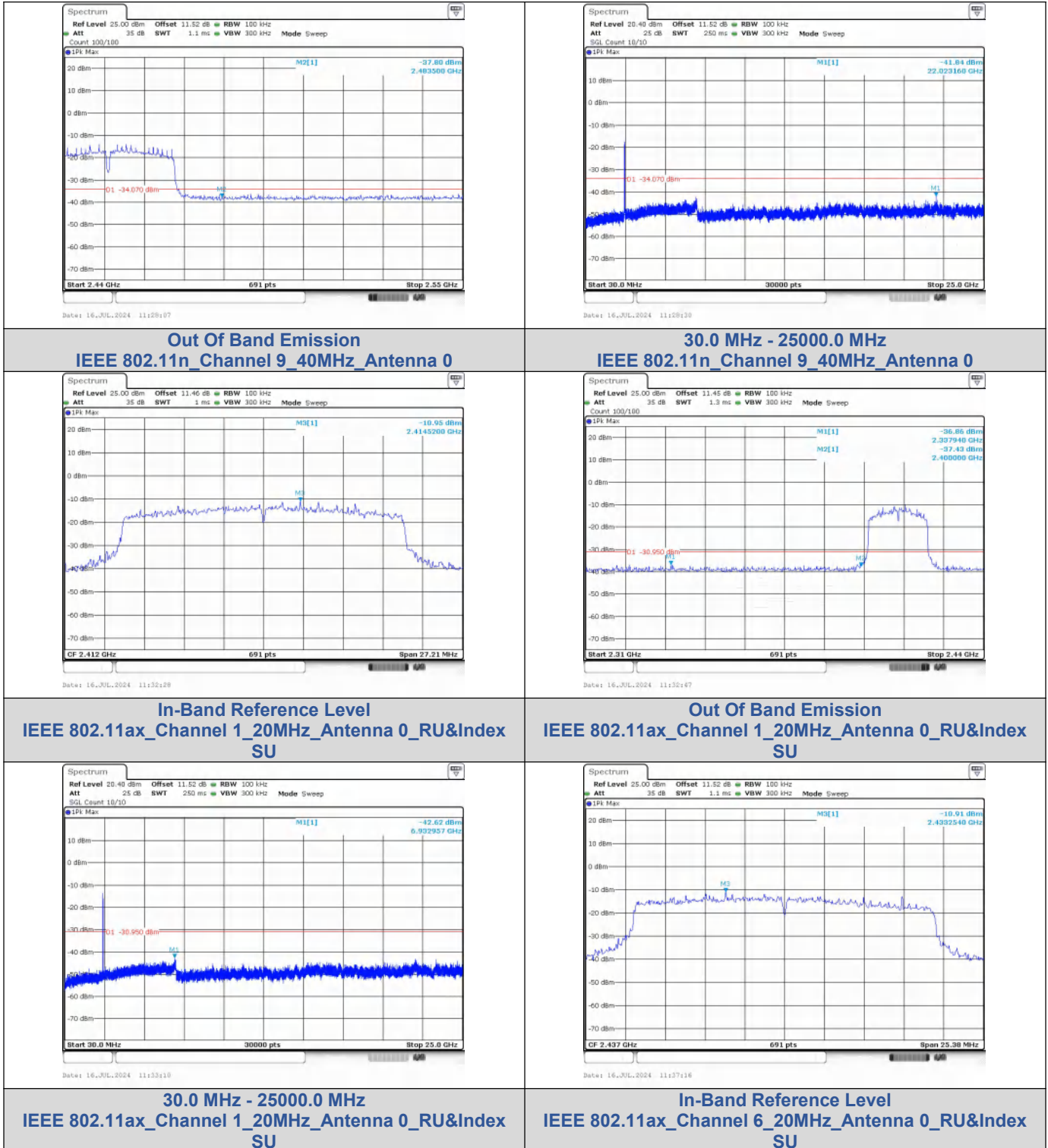
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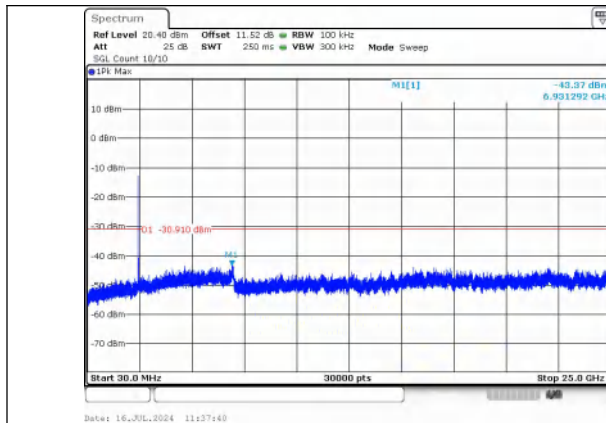
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IEEE 802.11n_Channel 6_40MHz_Antenna 0



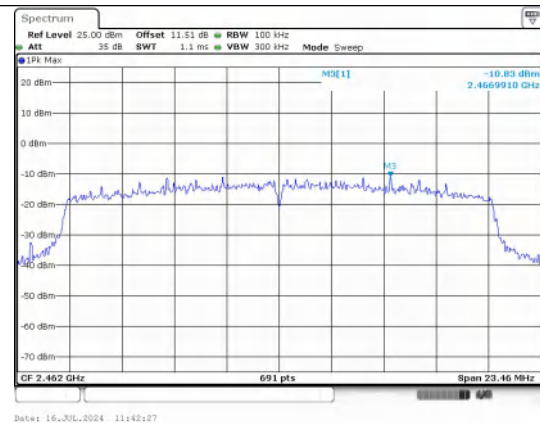
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In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0

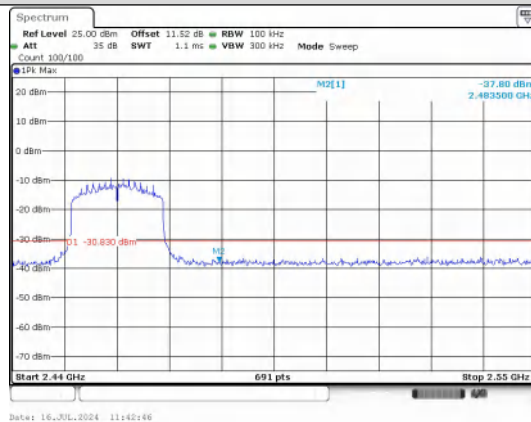




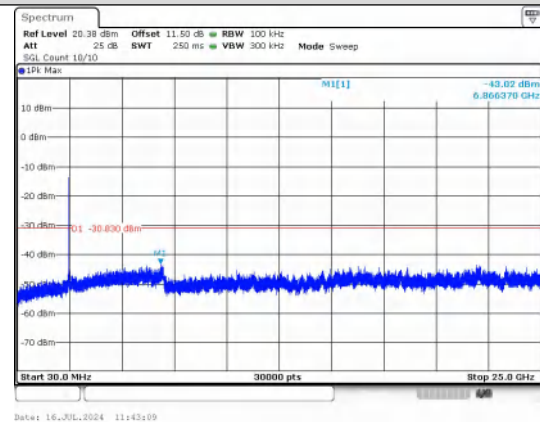
30.0 MHz - 25000.0 MHz
IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU



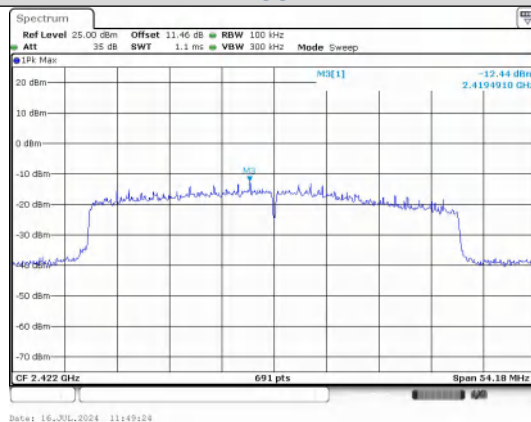
In-Band Reference Level
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



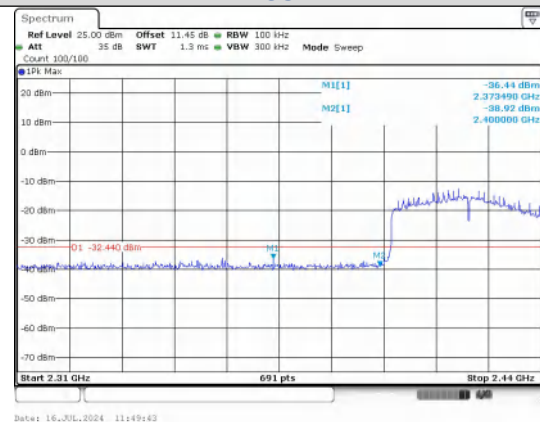
Out Of Band Emission
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



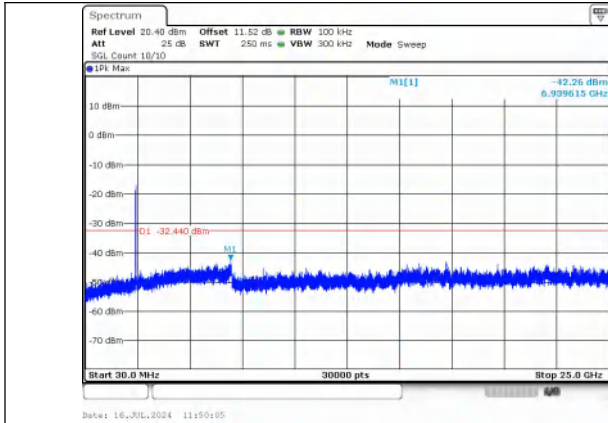
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IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



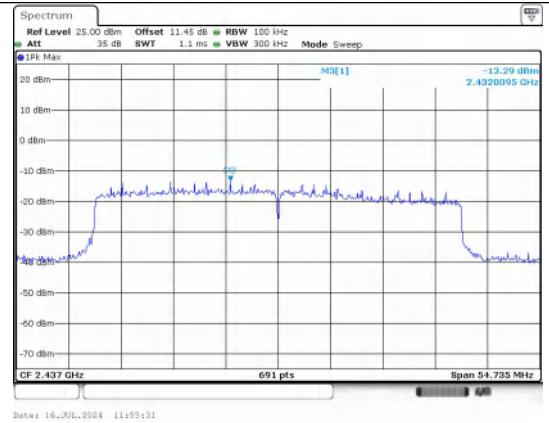
In-Band Reference Level
IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



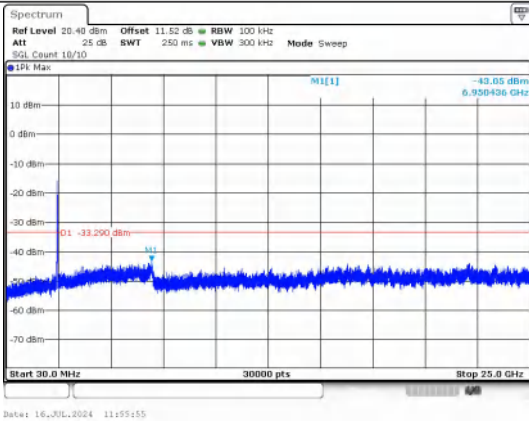
Out Of Band Emission
IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



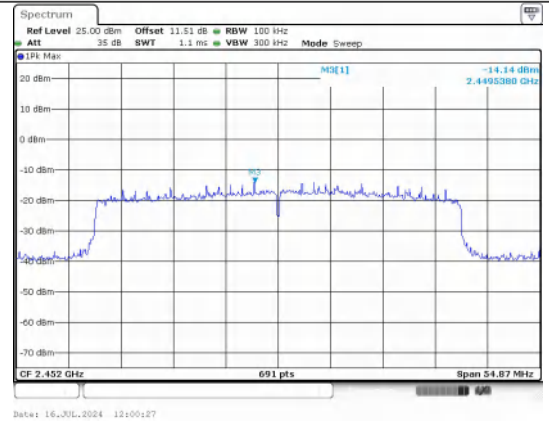
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IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index
SU



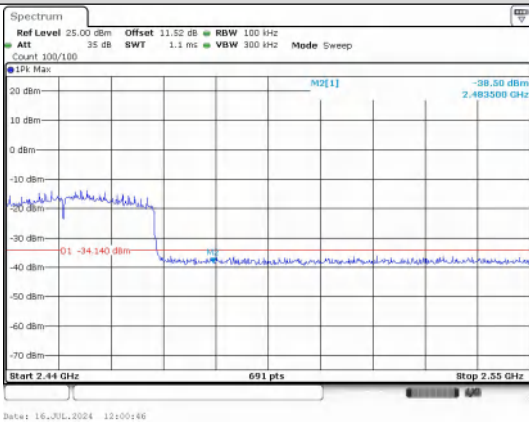
In-Band Reference Level
IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index
SU



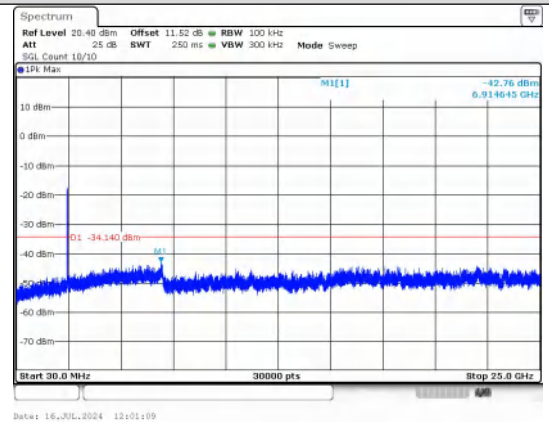
30.0 MHz - 25000.0 MHz
IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index
SU



In-Band Reference Level
IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index
SU



Out Of Band Emission
IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index
SU



30.0 MHz - 25000.0 MHz
IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index
SU