

Appendix A

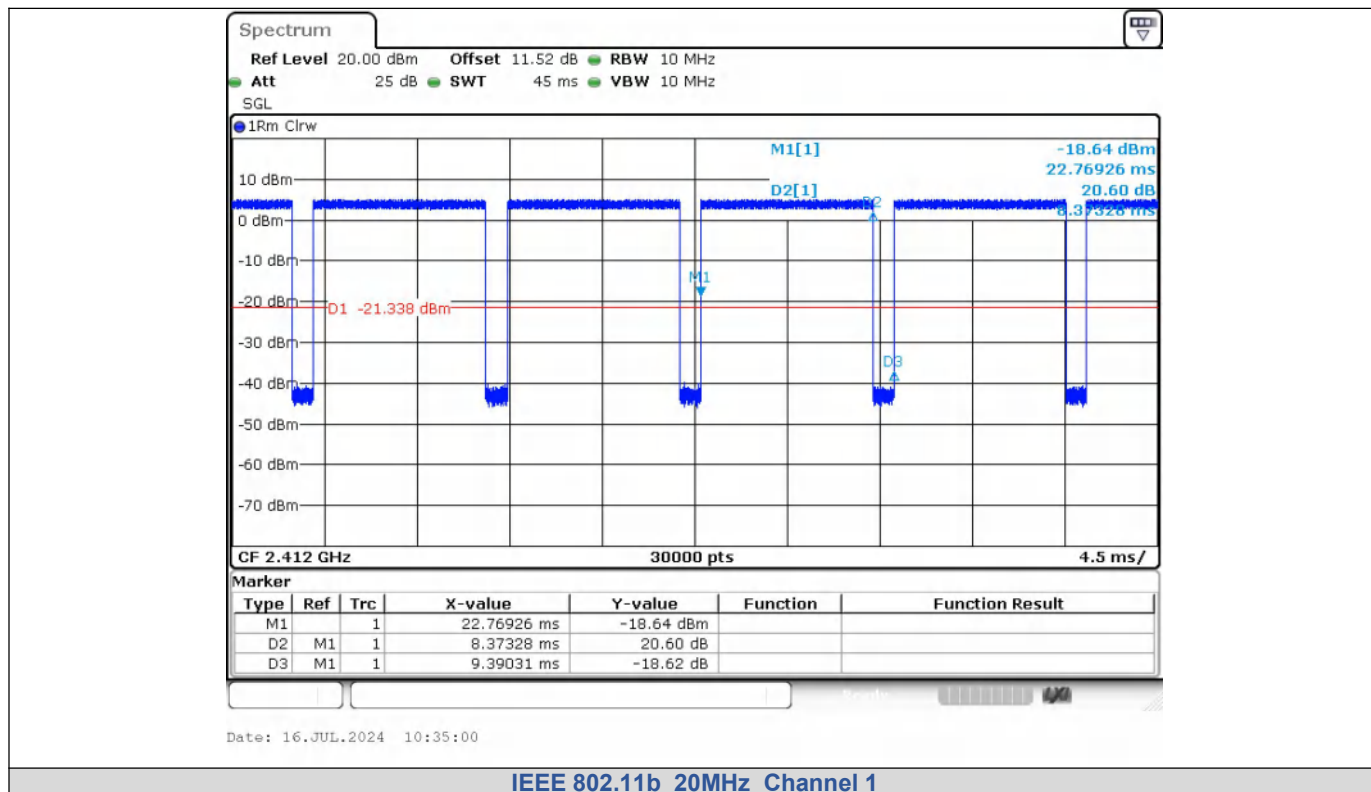
Report No.:	CISRR24070402601
FCC ID:	2BFI9F2
Product Name:	Security Camera
Model No.:	F2
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

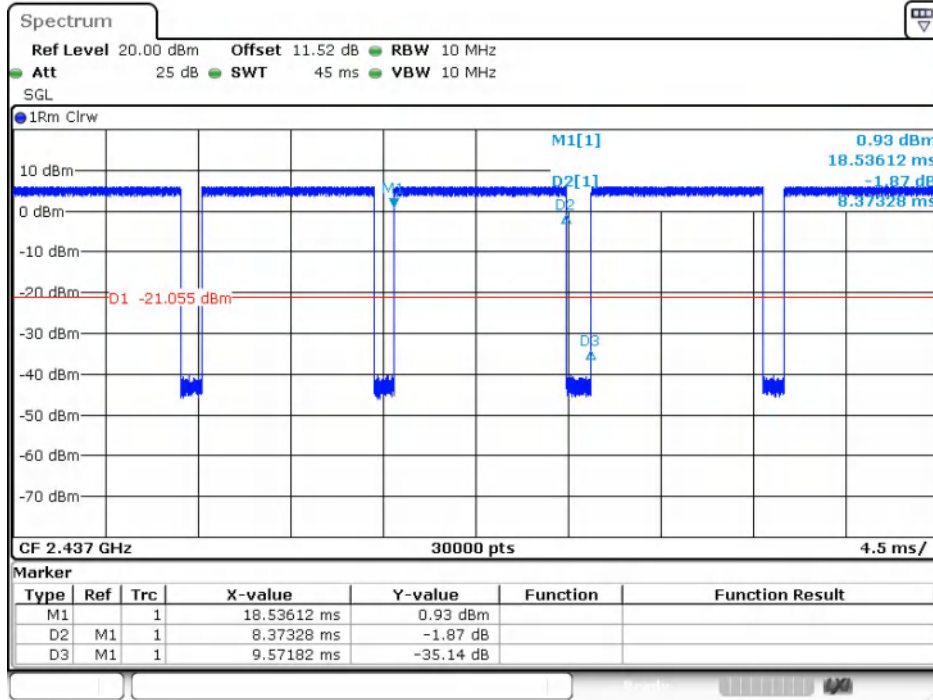
Duty Cycle

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
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	

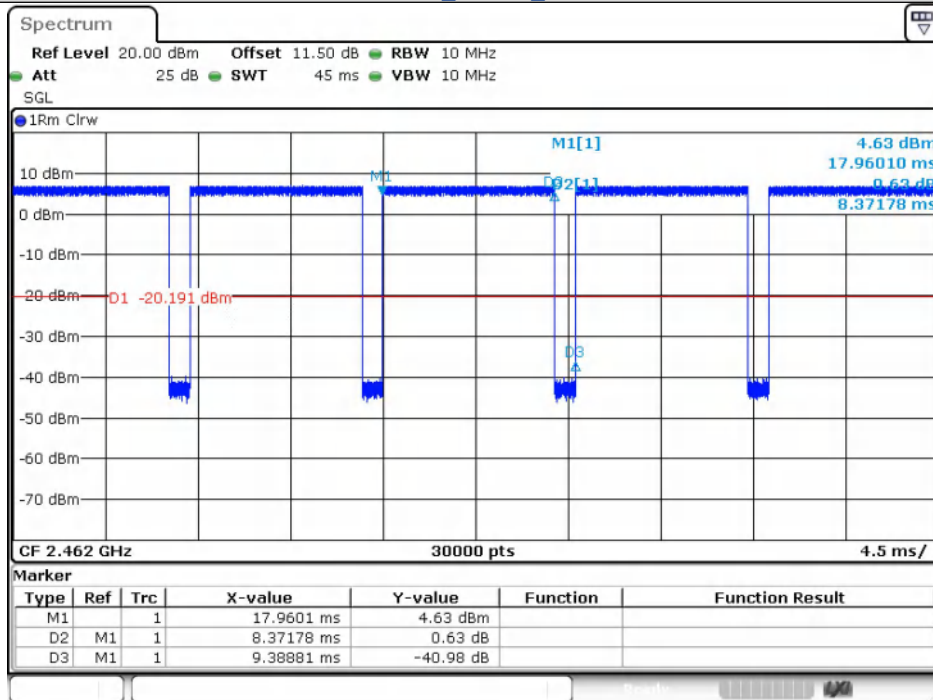
Test Graphs





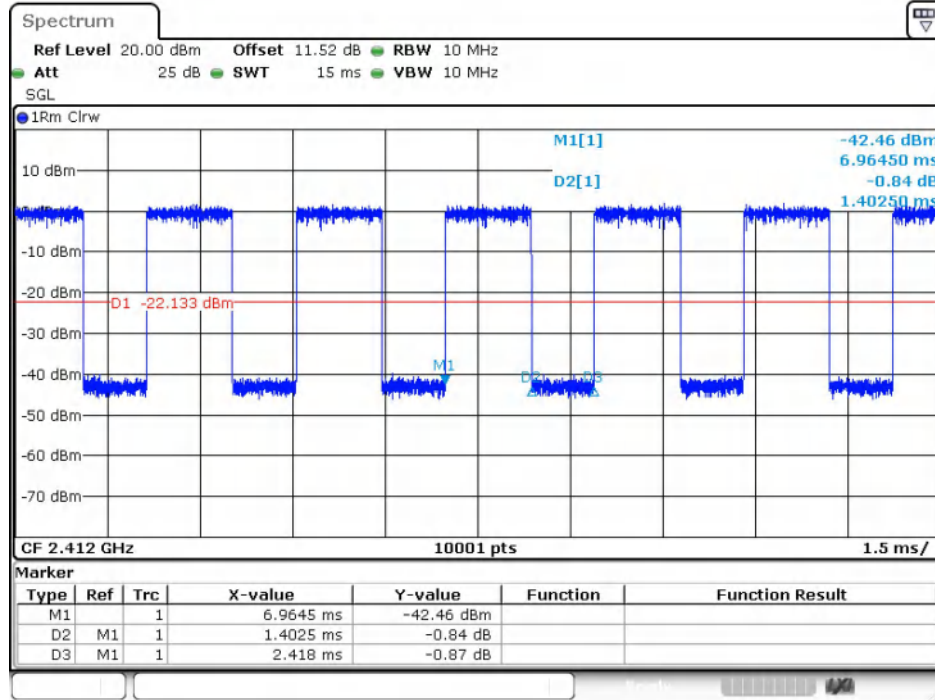
Date: 16.JUL.2024 10:40:55

IEEE 802.11b_20MHz_Channel 6



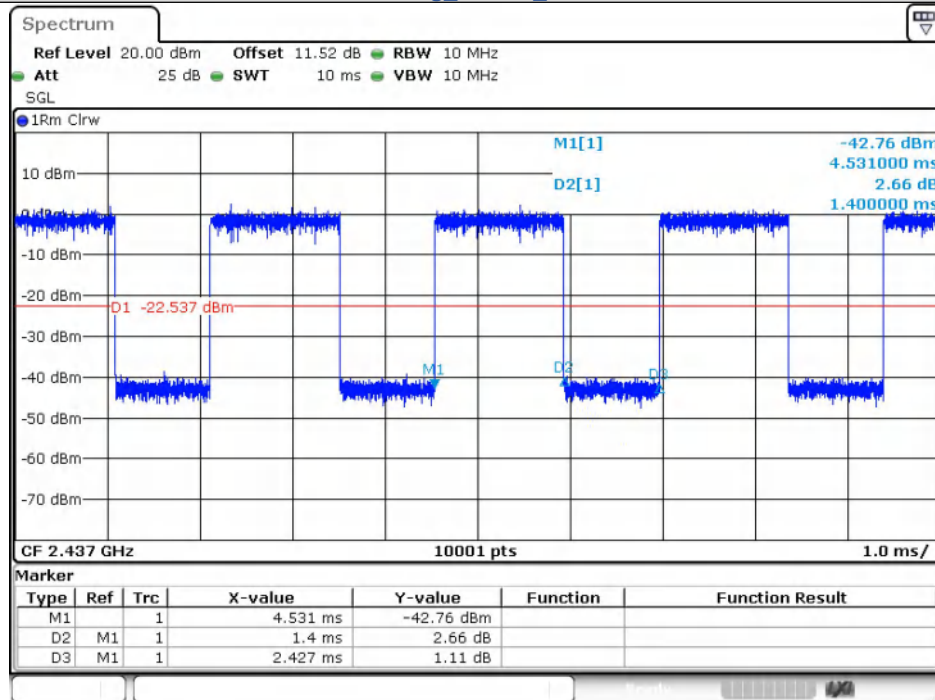
Date: 16.JUL.2024 10:46:24

IEEE 802.11b_20MHz_Channel 11



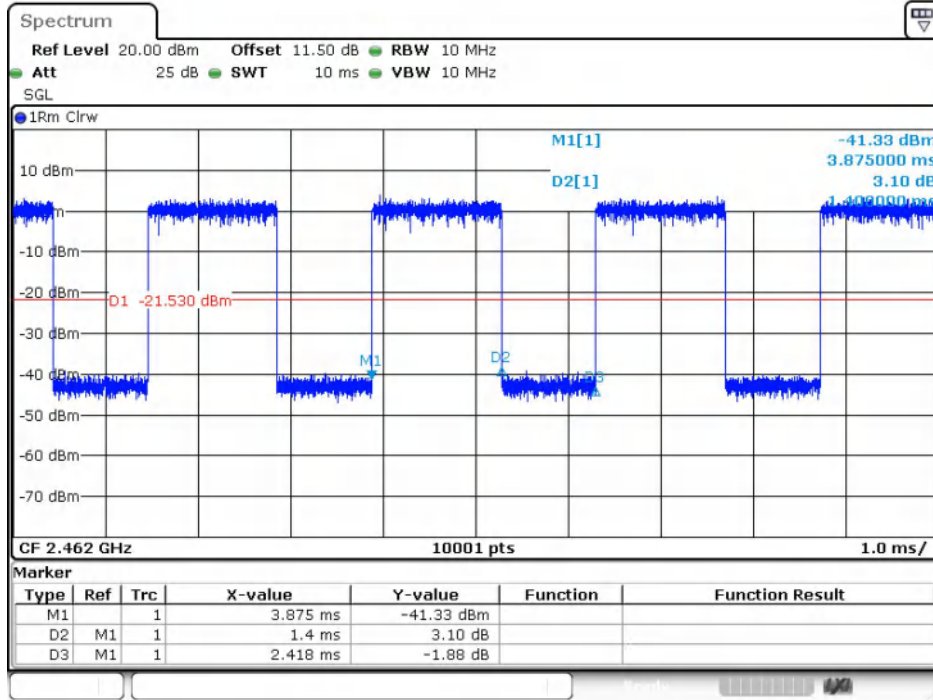
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IEEE 802.11g_20MHz_Channel 1



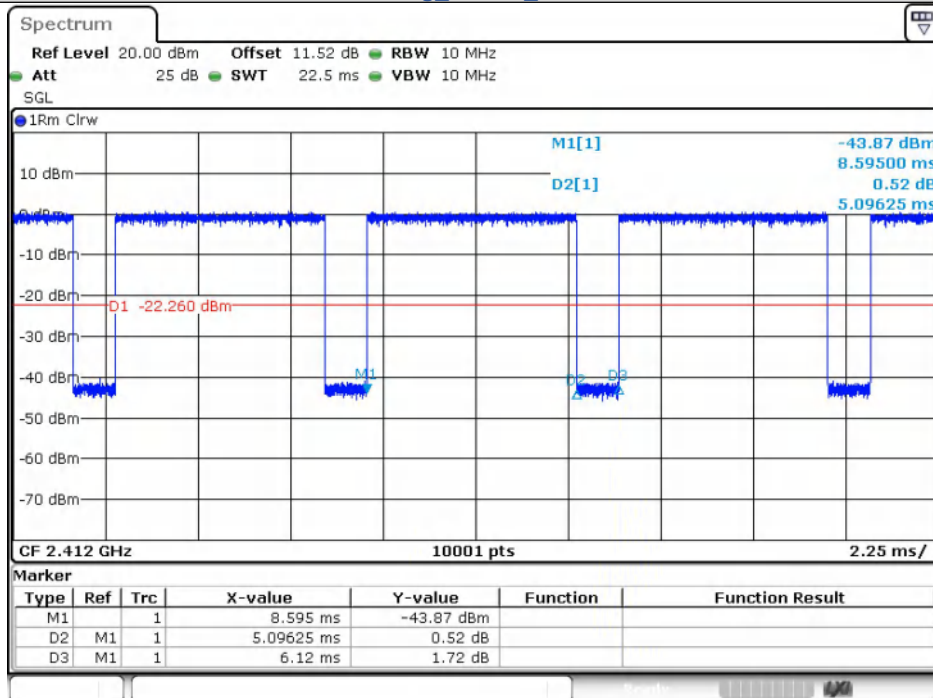
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IEEE 802.11g_20MHz_Channel 6



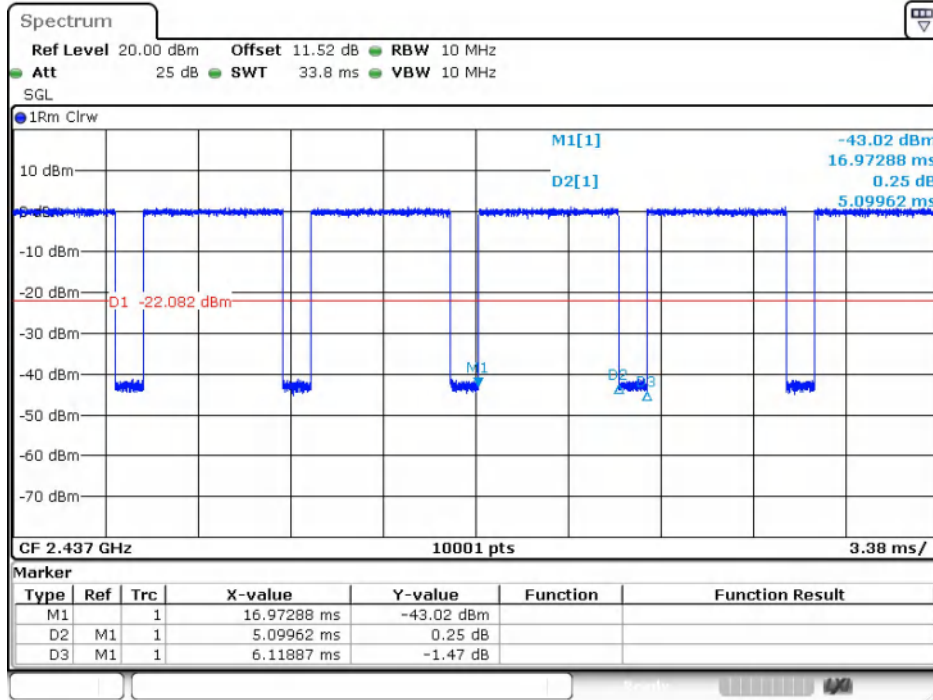
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IEEE 802.11g_20MHz_Channel 11



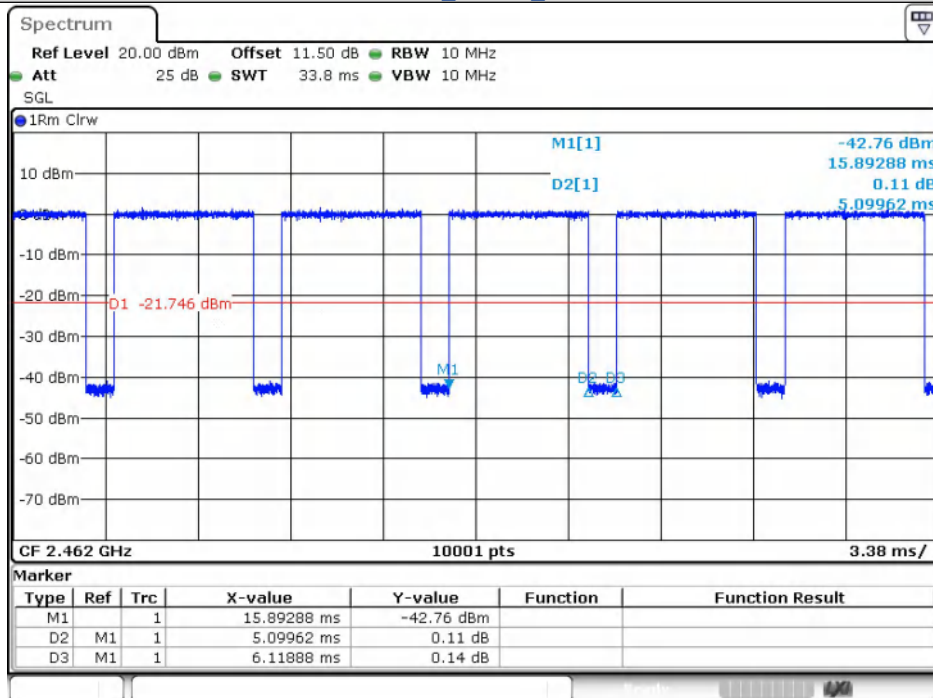
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IEEE 802.11n_20MHz_Channel 1



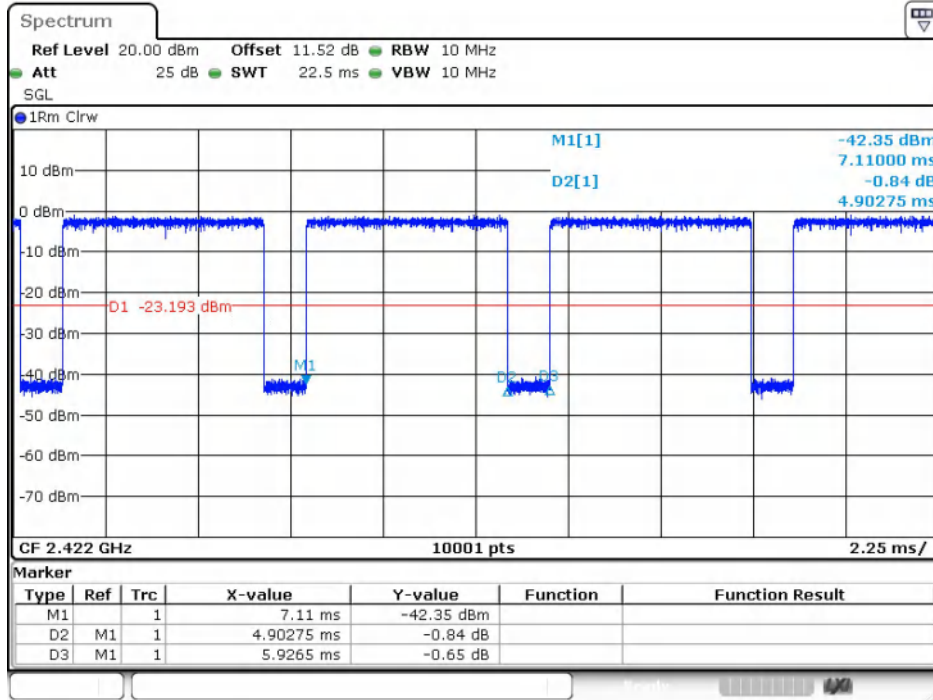
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IEEE 802.11n_20MHz_Channel 6



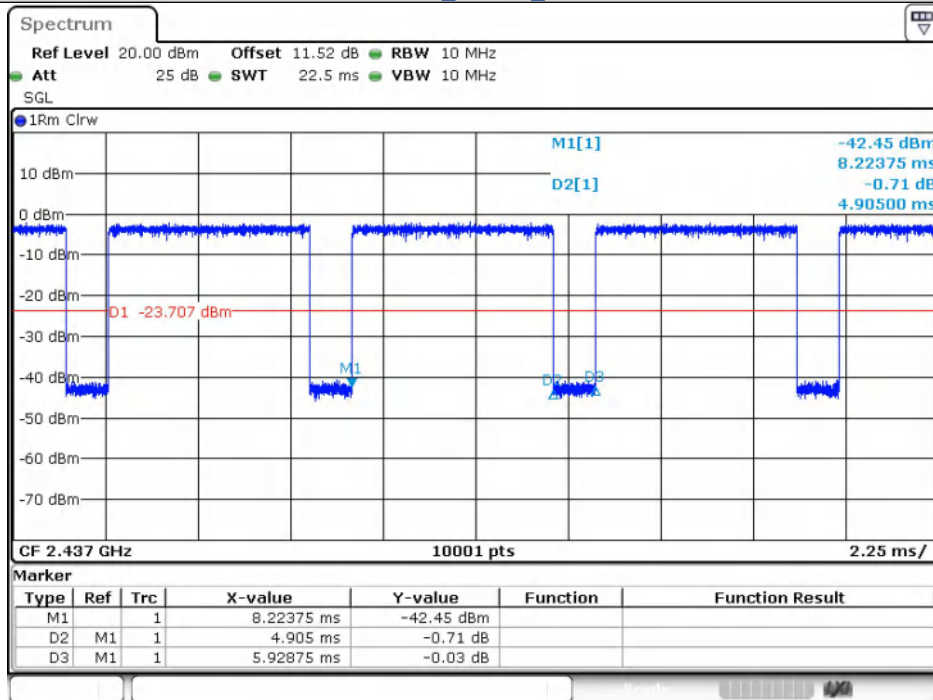
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IEEE 802.11n_20MHz_Channel 11



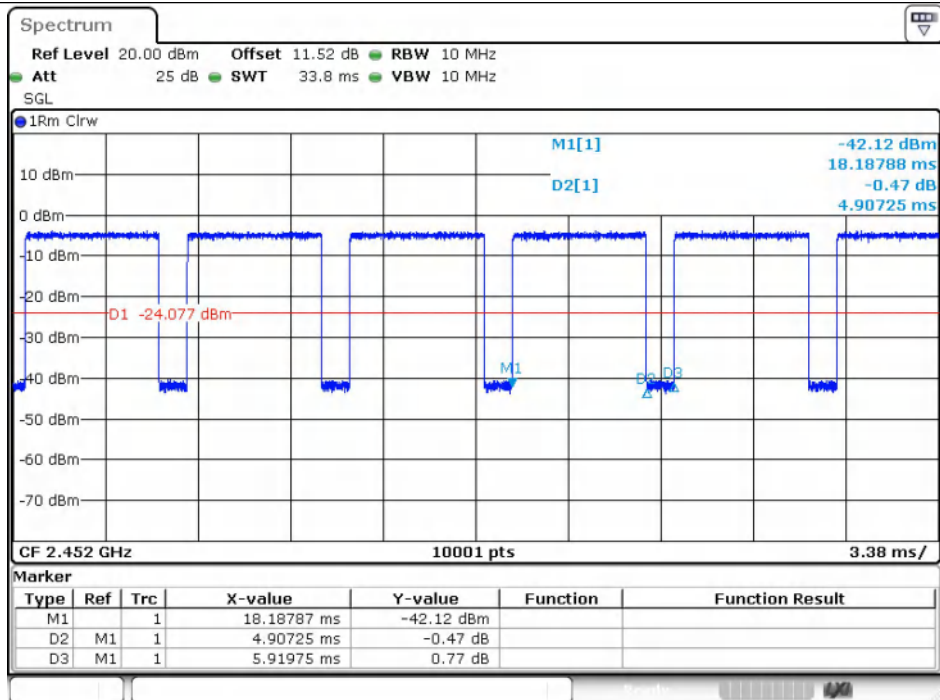
Date: 16.JUL.2024 11:20:54

IEEE 802.11n_40MHz_Channel 3



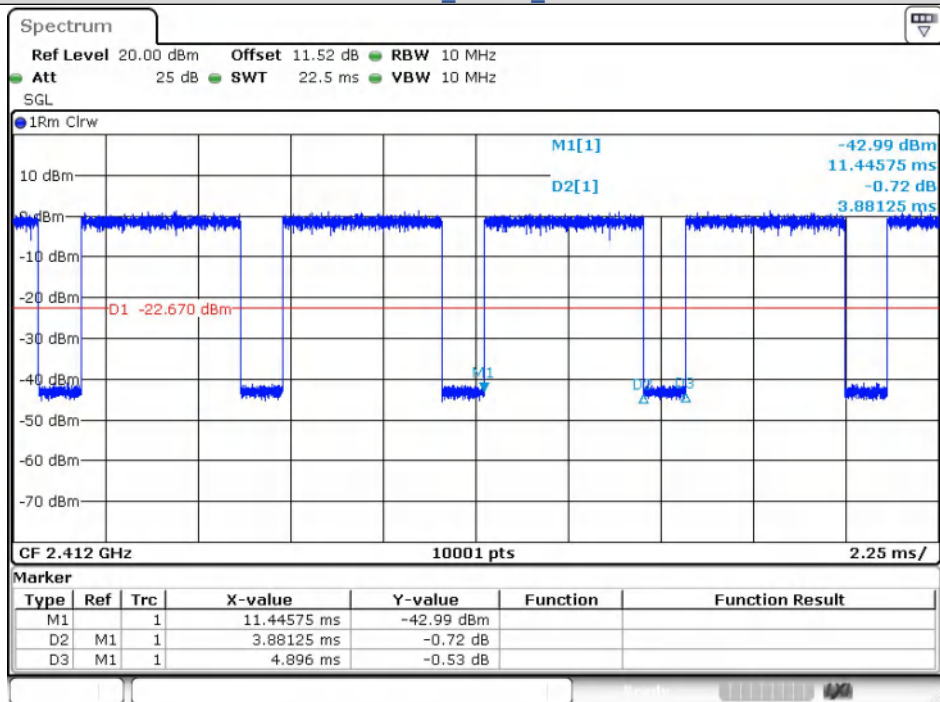
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IEEE 802.11n_40MHz_Channel 6



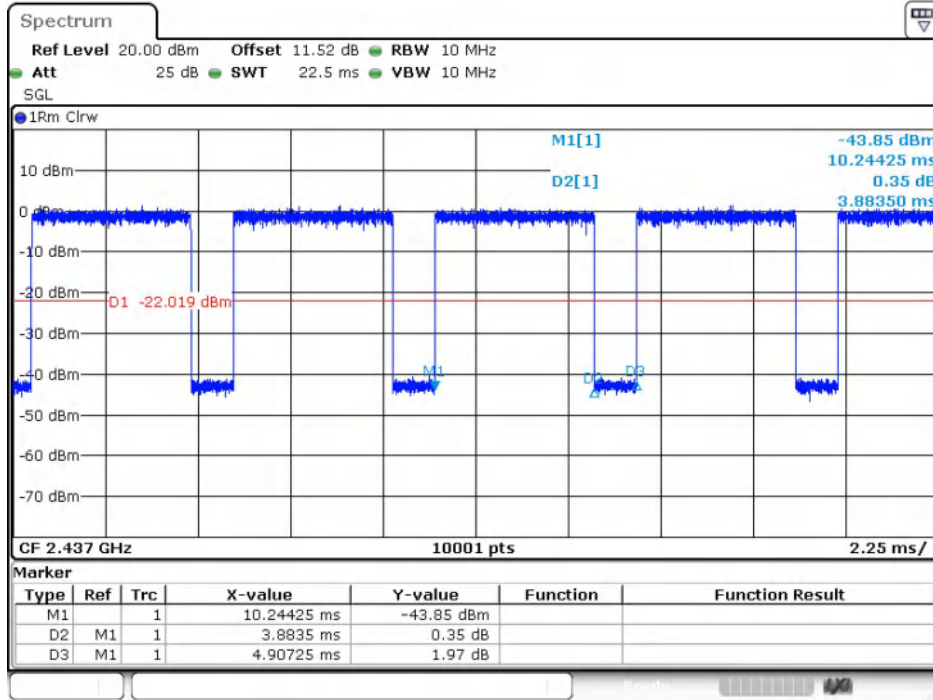
Date: 16.JUL.2024 11:26:19

IEEE 802.11n_40MHz_Channel 9



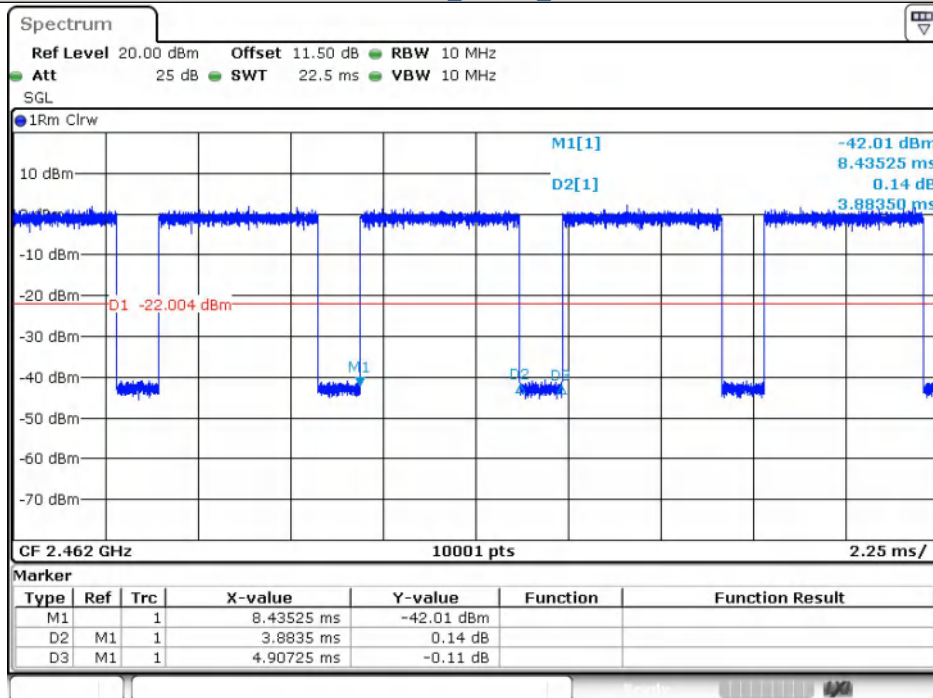
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IEEE 802.11ax_20MHz_Channel 1



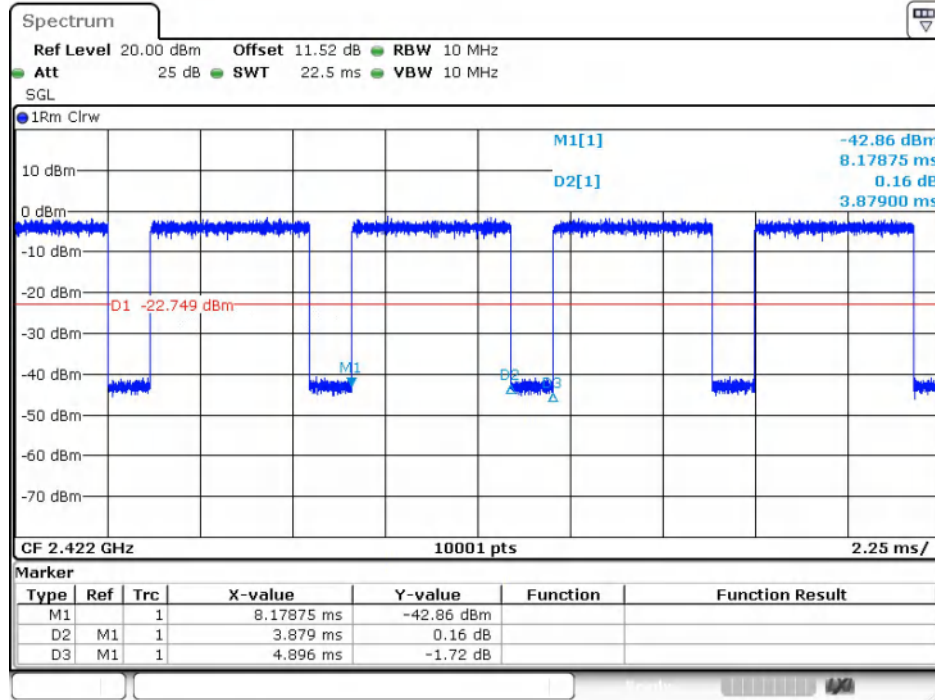
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IEEE 802.11ax_20MHz_Channel 6



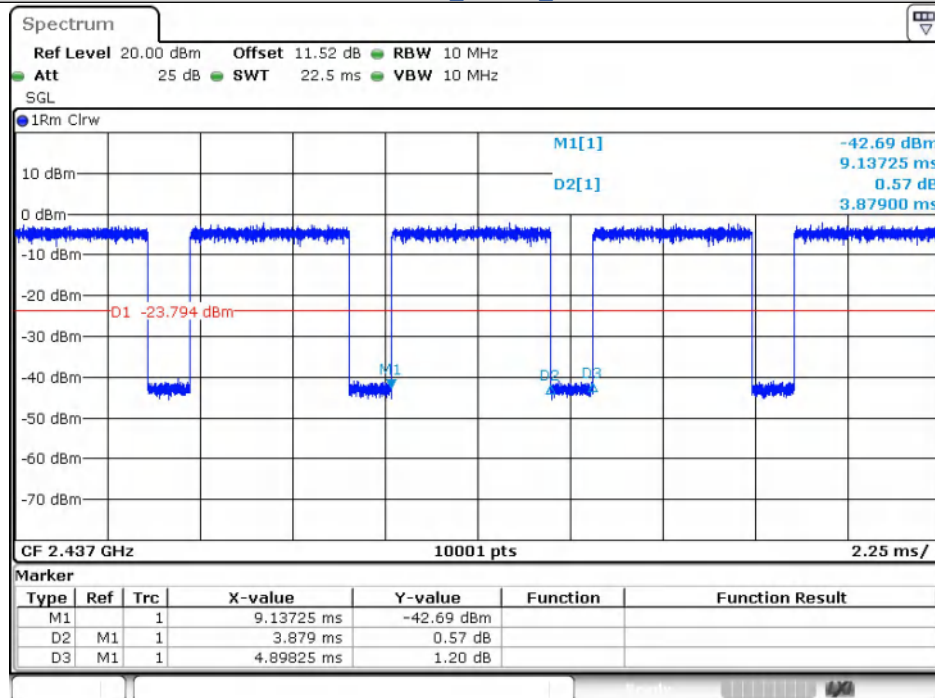
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IEEE 802.11ax_20MHz_Channel 11



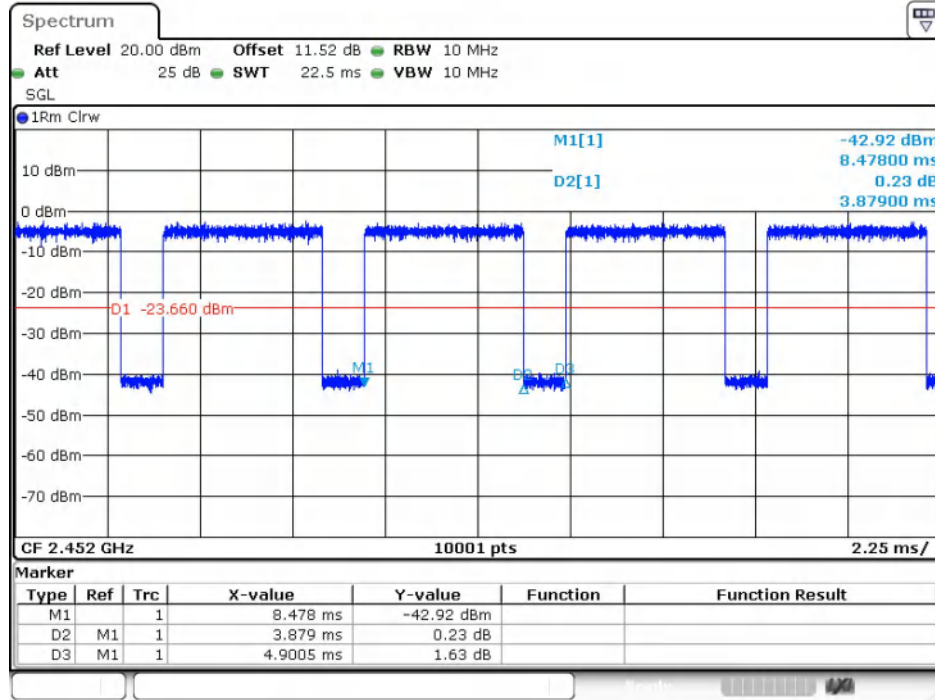
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IEEE 802.11ax_40MHz_Channel 3



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

IEEE 802.11ax_40MHz_Channel 6



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

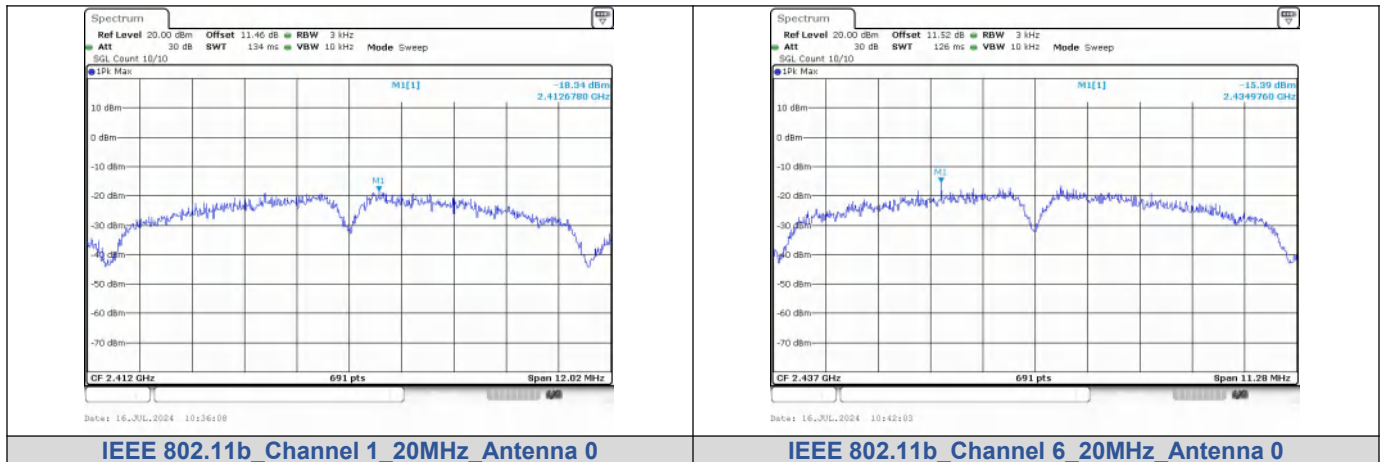
IEEE 802.11ax_40MHz_Channel 9

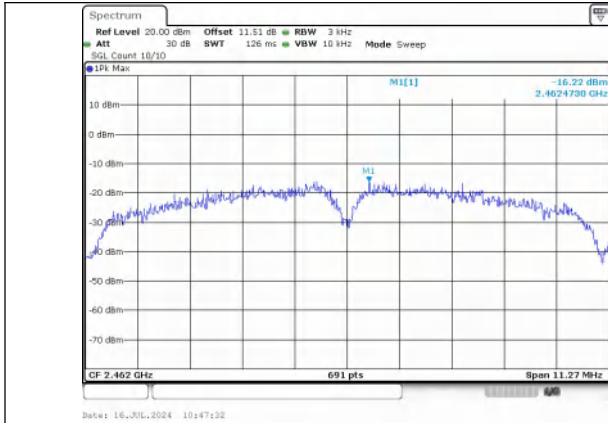
Power Spectral Density

Test Result

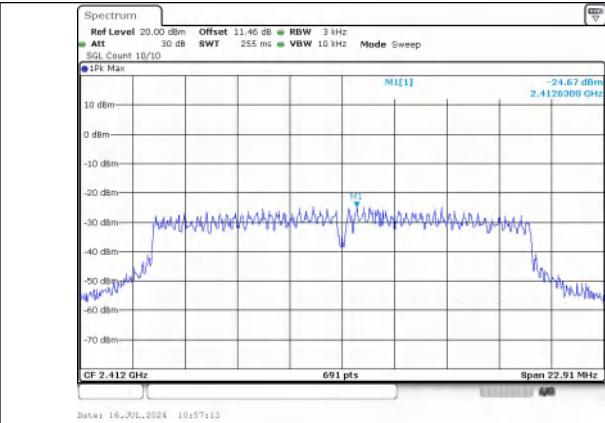
Mode	Channel	RU & Index	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	N/A	-18.340	≤8	PASS
	6		-15.387		PASS
	11		-16.224		PASS
IEEE 802.11g	1		-24.666		PASS
	6		-25.222		PASS
	11		-23.259		PASS
IEEE 802.11n_20	1		-23.292		PASS
	6		-24.326		PASS
	11		-22.938		PASS
IEEE 802.11n_40	3		-25.070		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

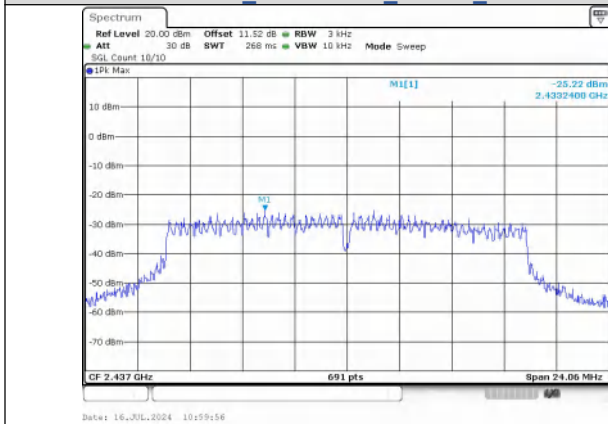




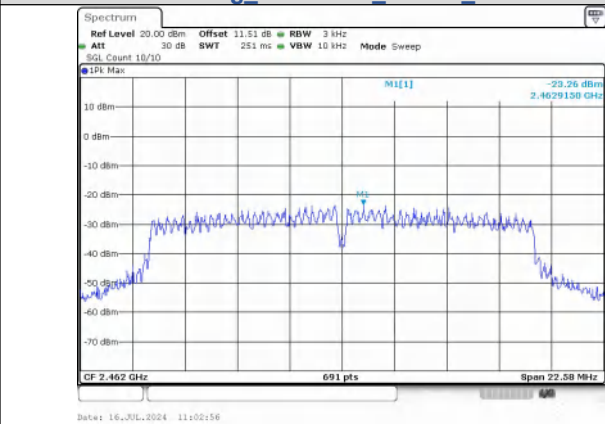
IEEE 802.11b_Channel 11_20MHz_Antenna 0



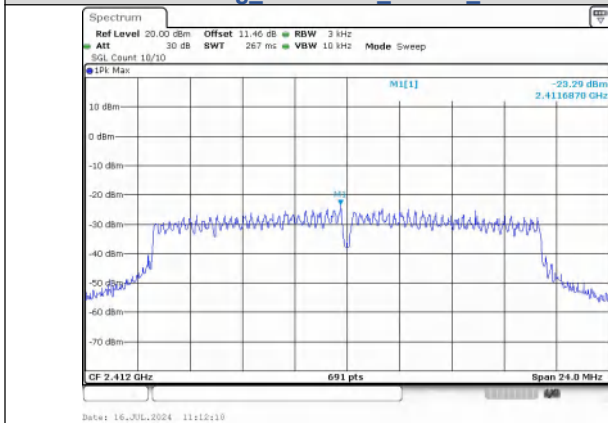
IEEE 802.11g_Channel 1_20MHz_Antenna 0



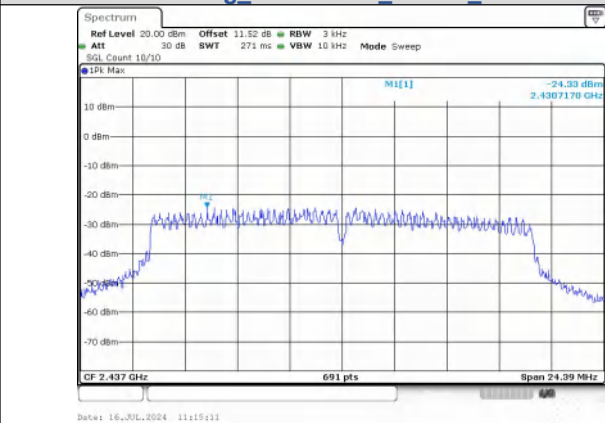
IEEE 802.11g_Channel 6_20MHz_Antenna 0



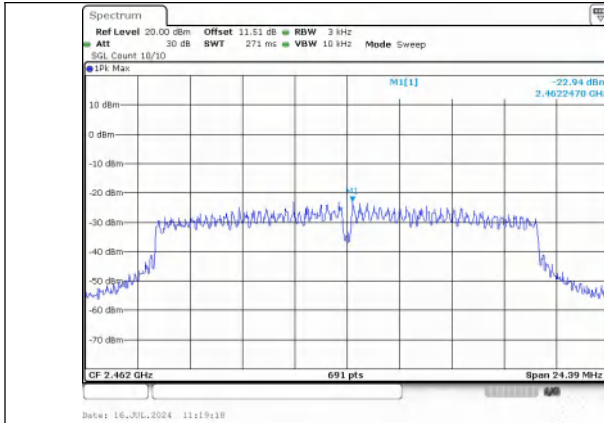
IEEE 802.11g_Channel 11_20MHz_Antenna 0



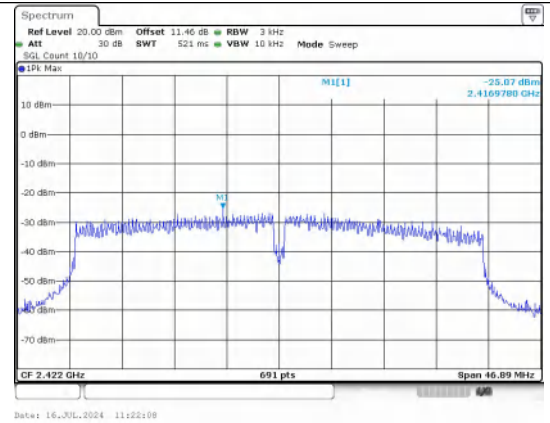
IEEE 802.11n_Channel 1_20MHz_Antenna 0



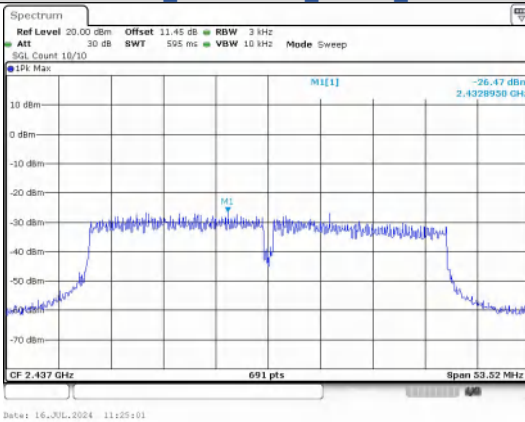
IEEE 802.11n_Channel 6_20MHz_Antenna 0



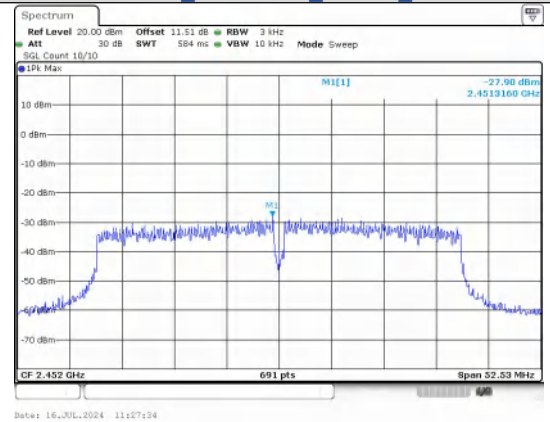
IEEE 802.11n_Channel 11_20MHz_Antenna 0



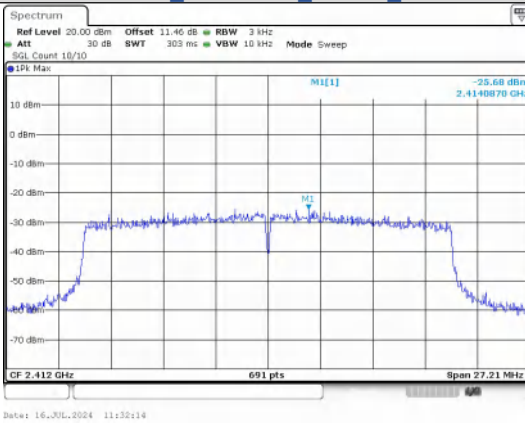
IEEE 802.11n_Channel 3_40MHz_Antenna 0



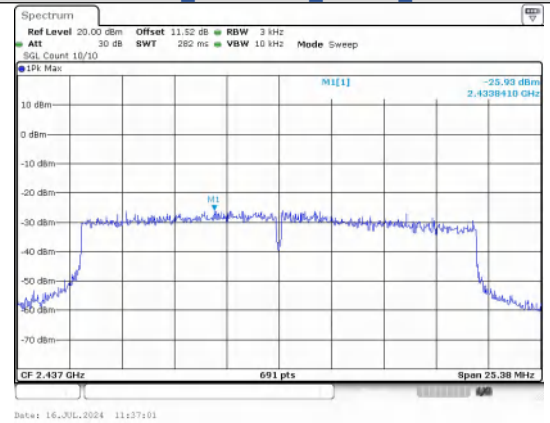
IEEE 802.11n_Channel 6_40MHz_Antenna 0



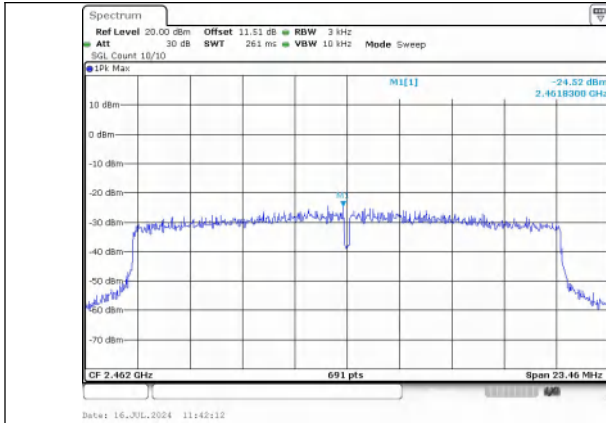
IEEE 802.11n_Channel 9_40MHz_Antenna 0



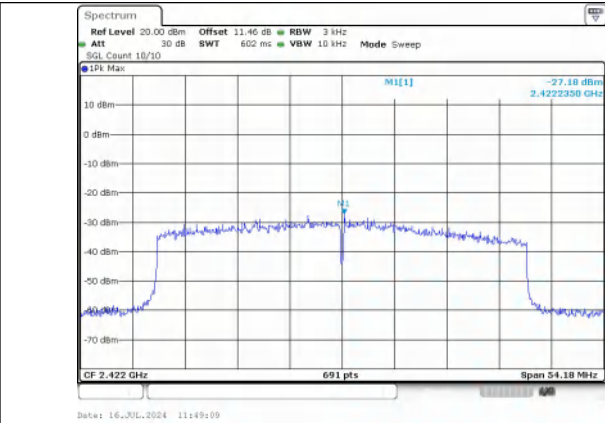
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index
SU



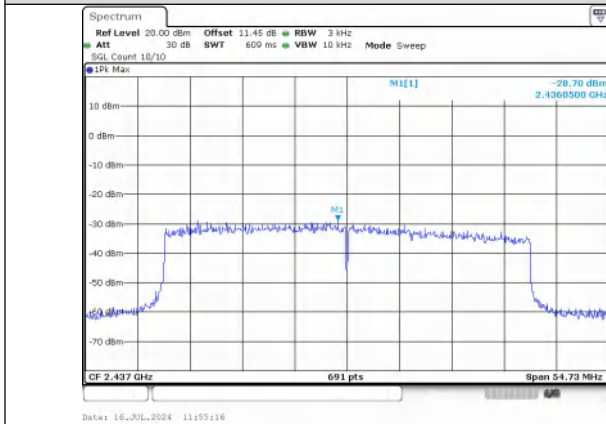
IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index
SU



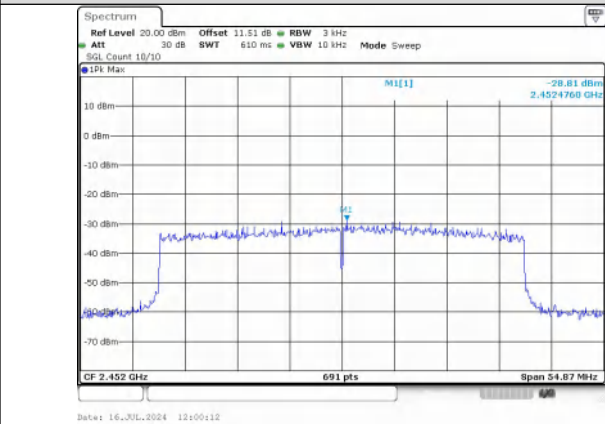
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



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

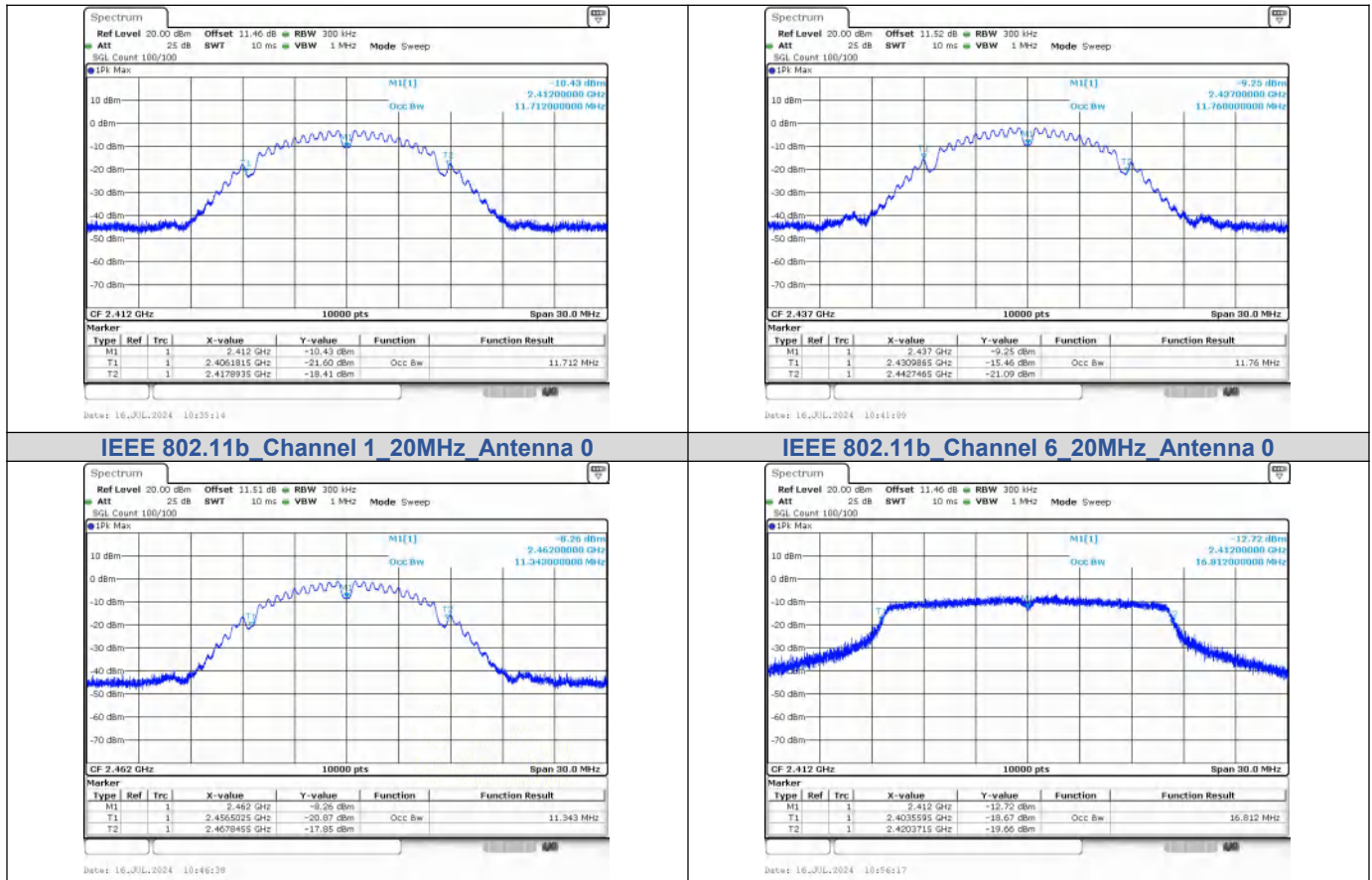
Mode	Channel	RU & Index	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	N/A	7.27	≤30	PASS
	6		8.19	≤30	PASS
	11		9.03	≤30	PASS
IEEE 802.11g	1		9.12	≤30	PASS
	6		8.08	≤30	PASS
	11		9.87	≤30	PASS
IEEE 802.11n_20	1		8.96	≤30	PASS
	6		9.65	≤30	PASS
	11		9.70	≤30	PASS
IEEE 802.11n_40	3		9.39	≤30	PASS
	6		9.41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

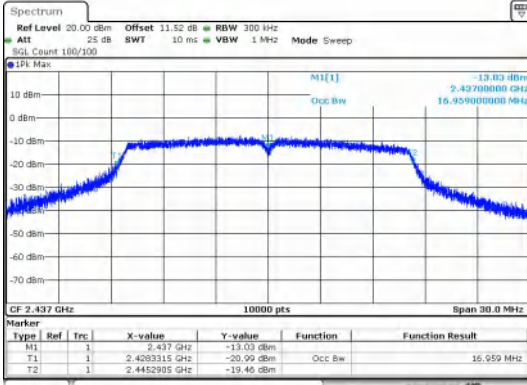
Test Result

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

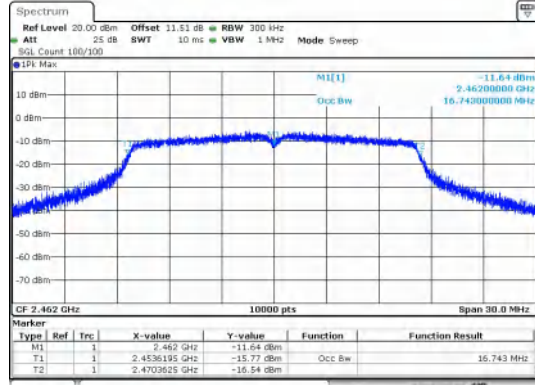


IEEE 802.11b Channel 11_20MHz_Antenna 0



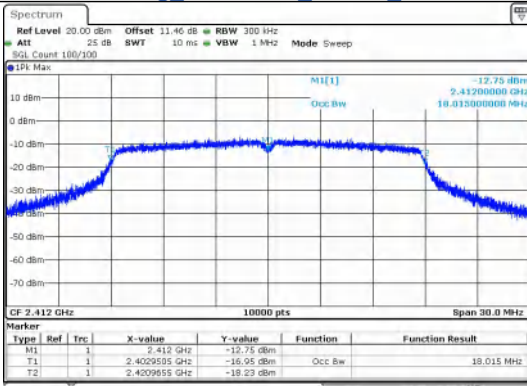
Date: 16_JUL_2024 10:19:00

IEEE 802.11g Channel 1_20MHz_Antenna 0



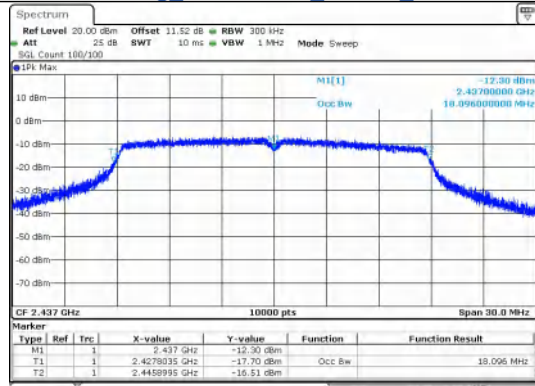
Date: 16_JUL_2024 11:02:00

IEEE 802.11g Channel 6_20MHz_Antenna 0



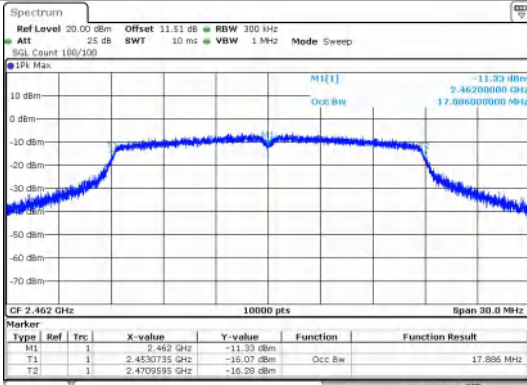
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IEEE 802.11g Channel 11_20MHz_Antenna 0



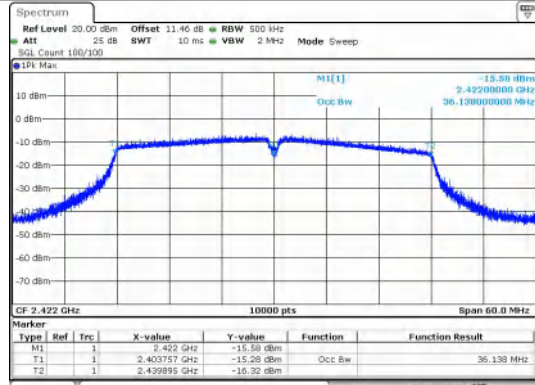
Date: 16_JUL_2024 11:14:15

IEEE 802.11n Channel 1_20MHz_Antenna 0



Date: 16_JUL_2024 11:19:22

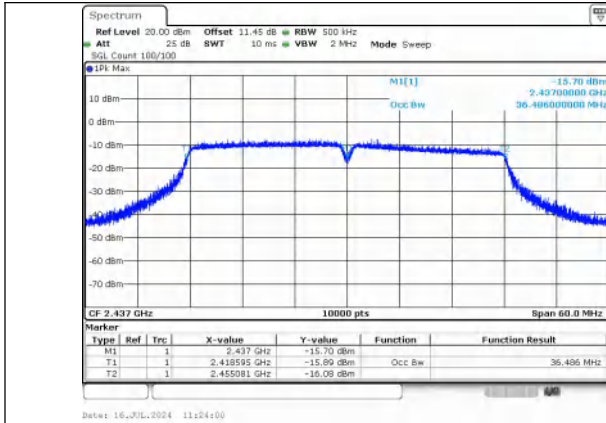
IEEE 802.11n Channel 6_20MHz_Antenna 0



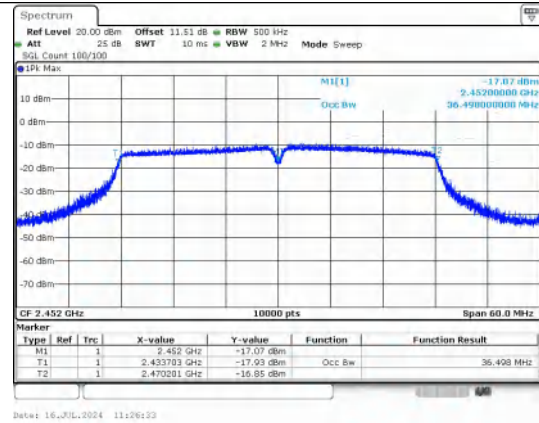
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IEEE 802.11n Channel 11_20MHz_Antenna 0

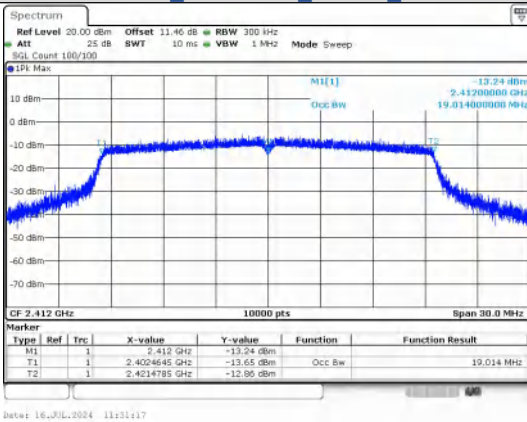
IEEE 802.11n Channel 3_40MHz_Antenna 0



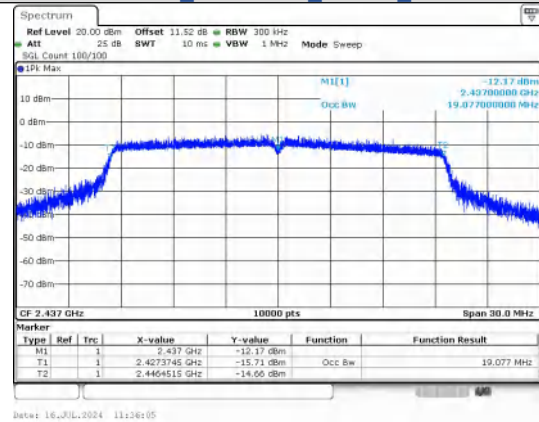
IEEE 802.11n_Channel 6_40MHz_Antenna 0



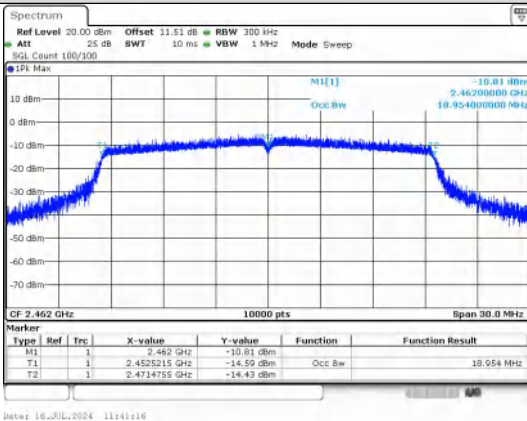
IEEE 802.11n_Channel 9_40MHz_Antenna 0



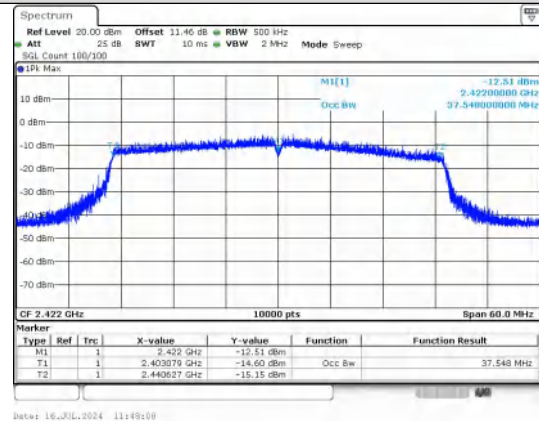
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



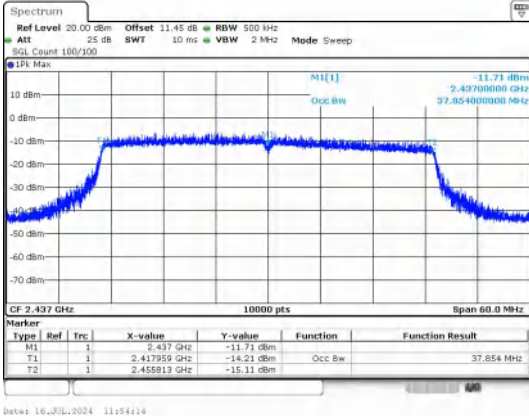
IEEE 802.11ax_Channel 9_20MHz_Antenna 0_RU&Index SU



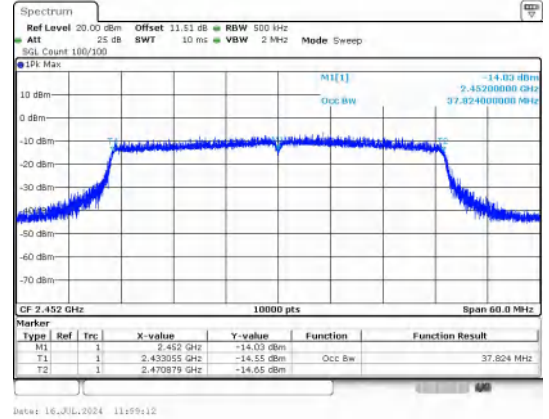
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index
SU



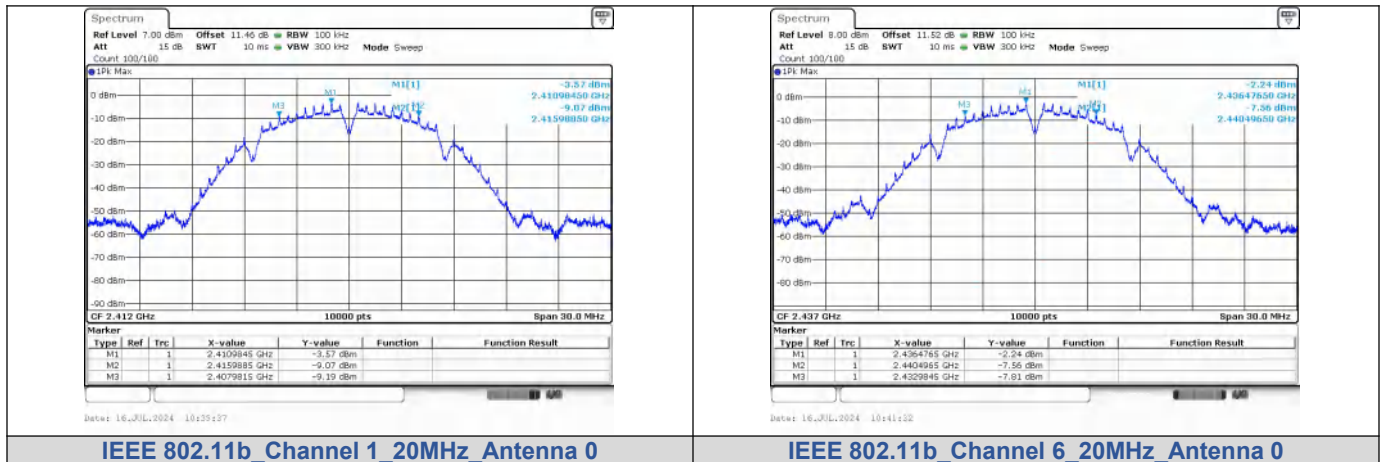
IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index
SU

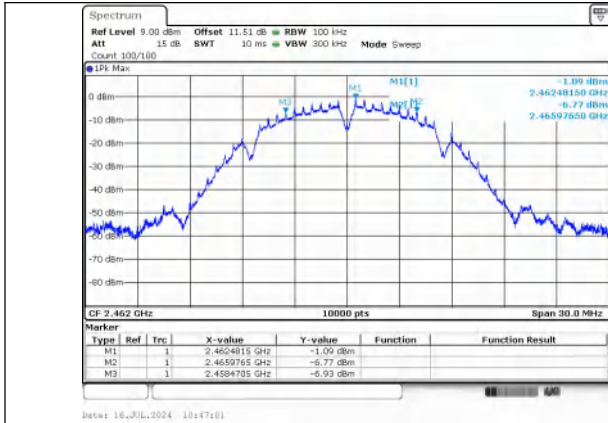
6dB Bandwidth

Test Result

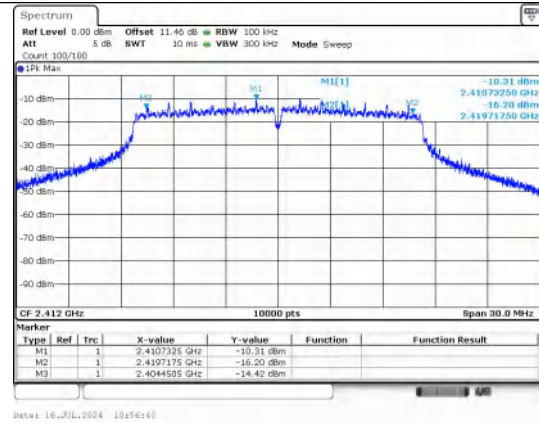
Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	N/A	0	2412	8.010	≥0.5	PASS
	6			2437	7.520		PASS
	11			2462	7.510		PASS
IEEE 802.11g	1			2412	15.27		PASS
	6			2437	16.04		PASS
	11			2462	15.05		PASS
IEEE 802.11n_20	1			2412	16.00		PASS
	6			2437	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

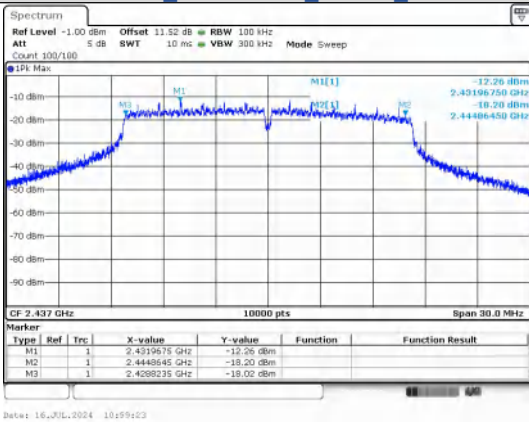




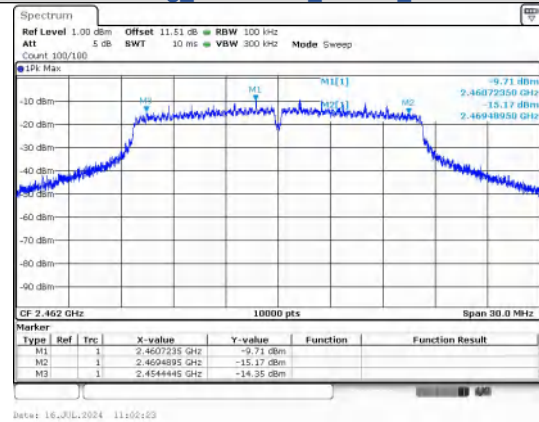
IEEE 802.11b Channel 11 20MHz Antenna 0



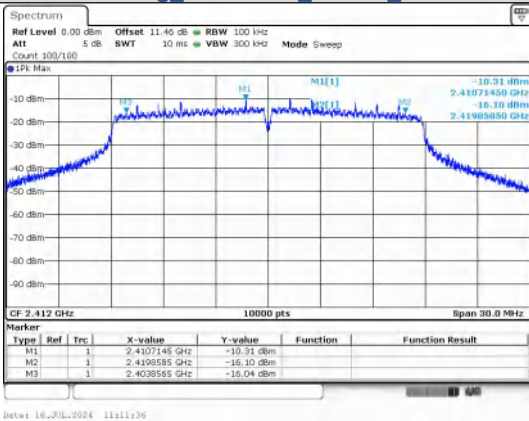
IEEE 802.11g Channel 1 20MHz Antenna 0



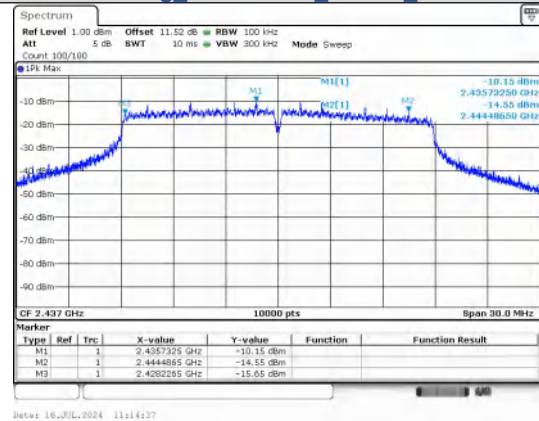
IEEE 802.11g Channel 6 20MHz Antenna 0



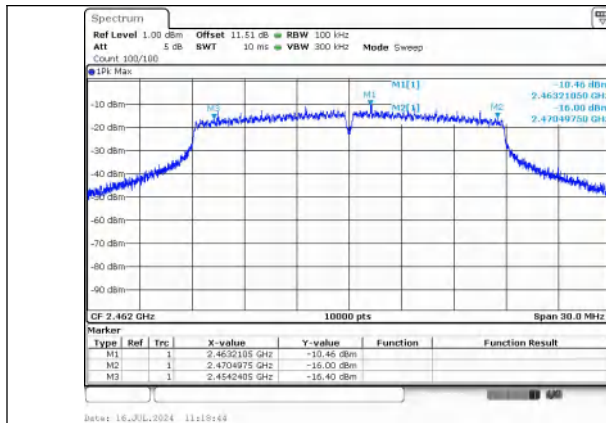
IEEE 802.11g Channel 11 20MHz Antenna 0



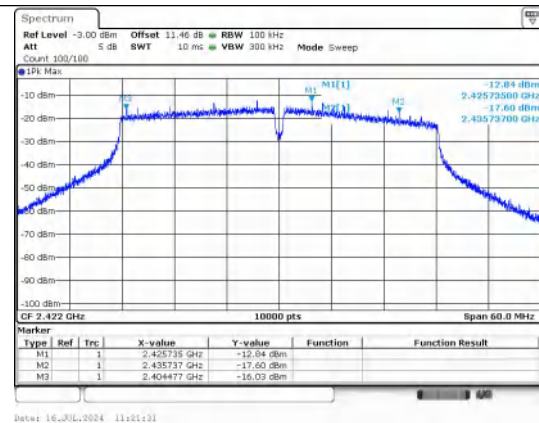
IEEE 802.11n Channel 1 20MHz Antenna 0



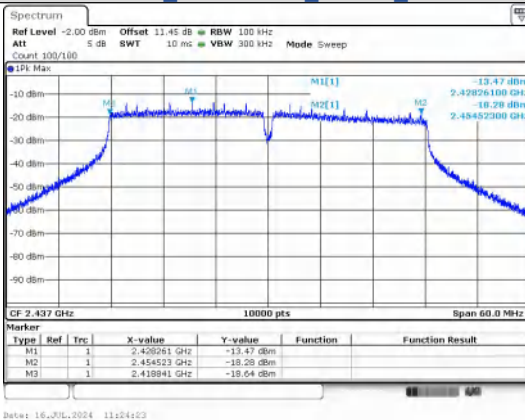
IEEE 802.11n Channel 6 20MHz Antenna 0



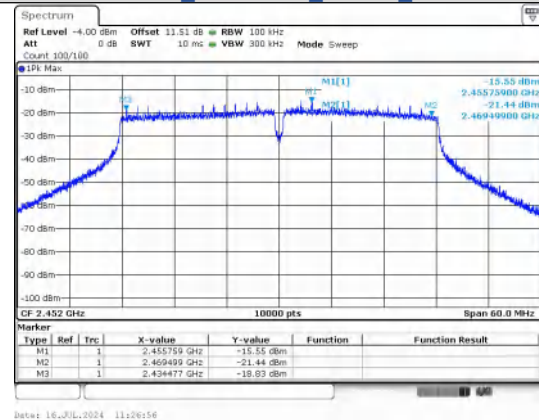
IEEE 802.11n_Channel 11_20MHz_Antenna 0



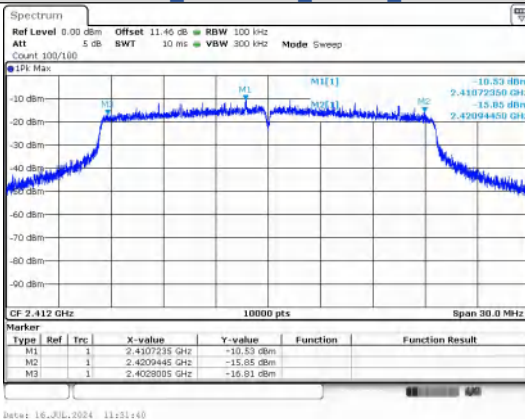
IEEE 802.11n_Channel 3_40MHz_Antenna 0



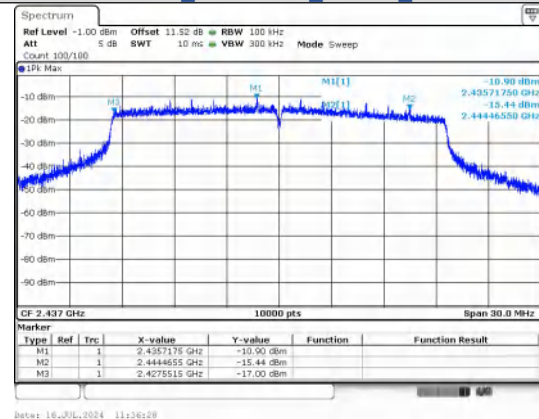
IEEE 802.11n_Channel 6_40MHz_Antenna 0



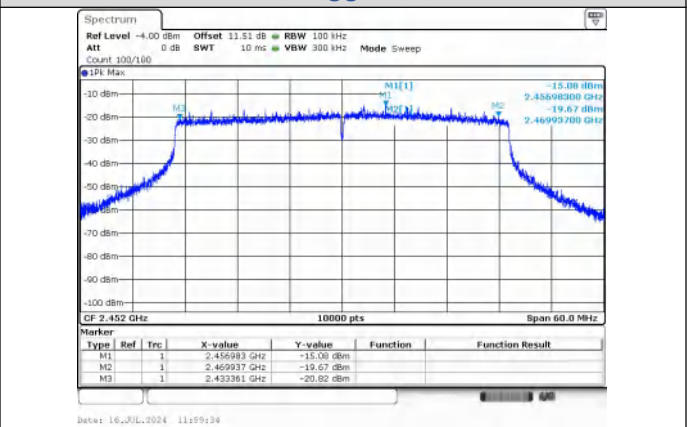
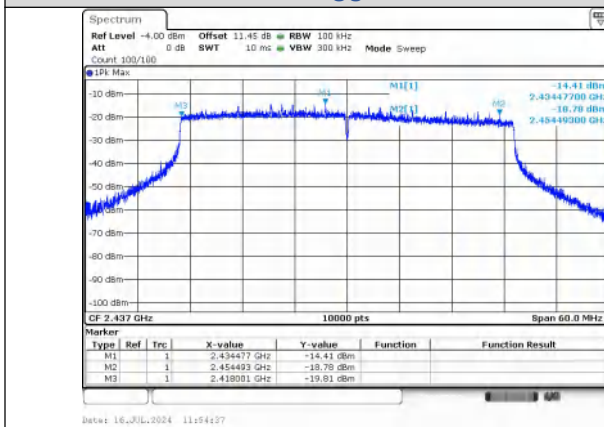
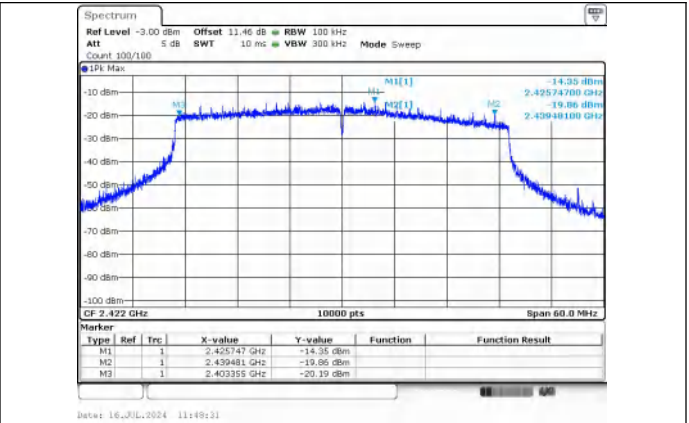
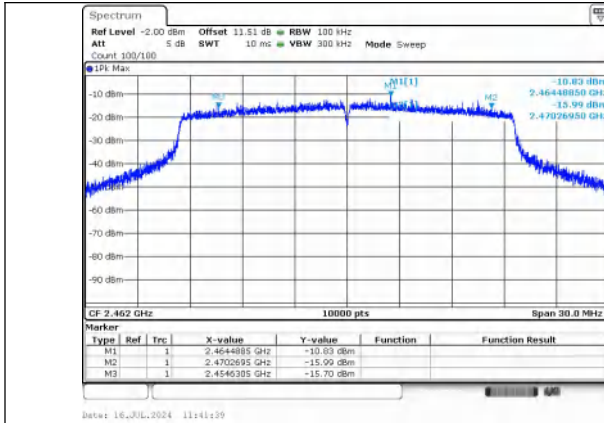
IEEE 802.11n_Channel 9_40MHz_Antenna 0



IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU

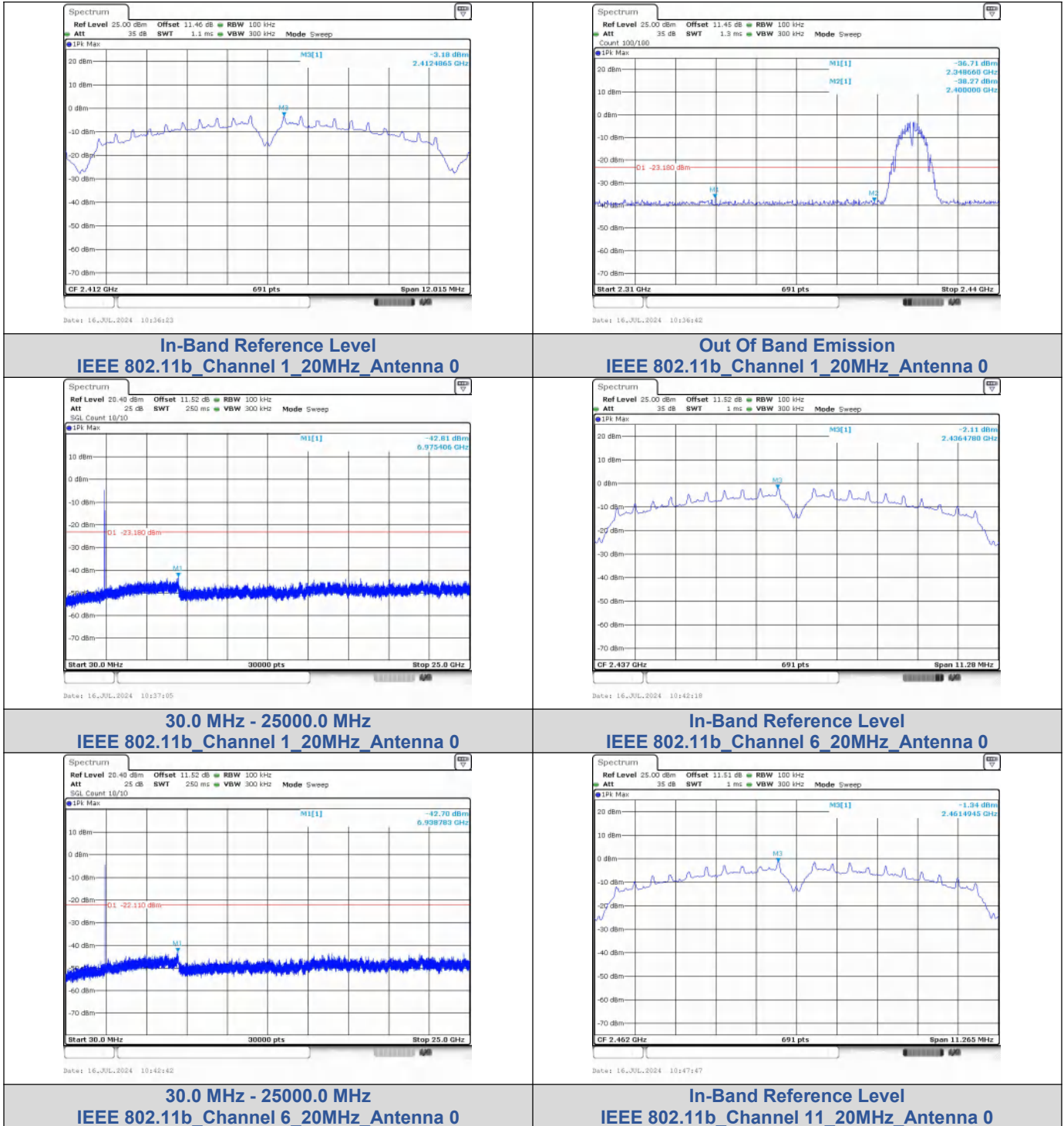


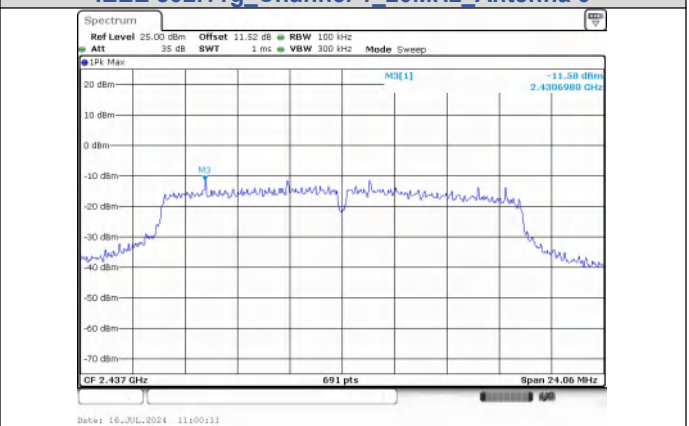
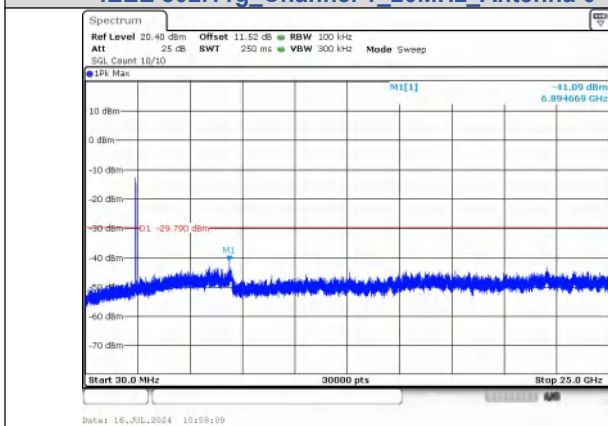
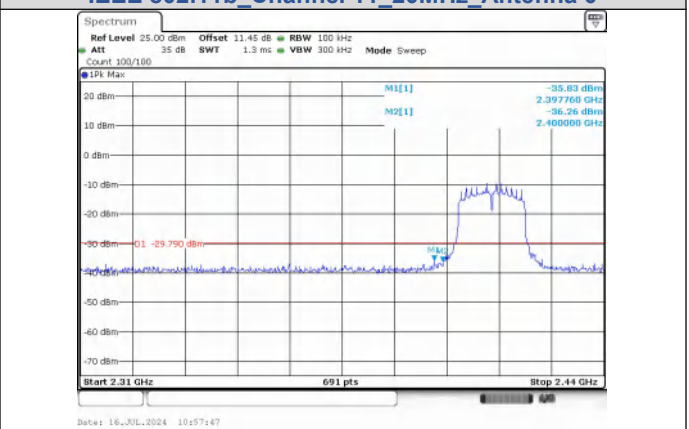
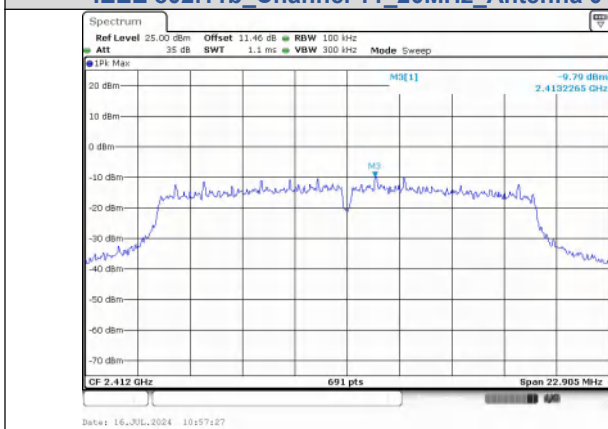
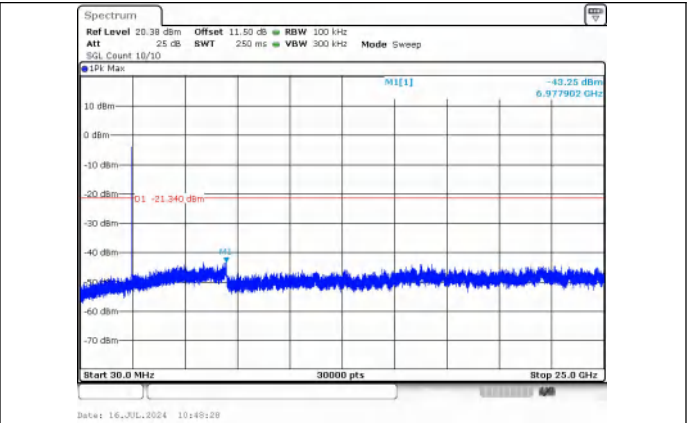
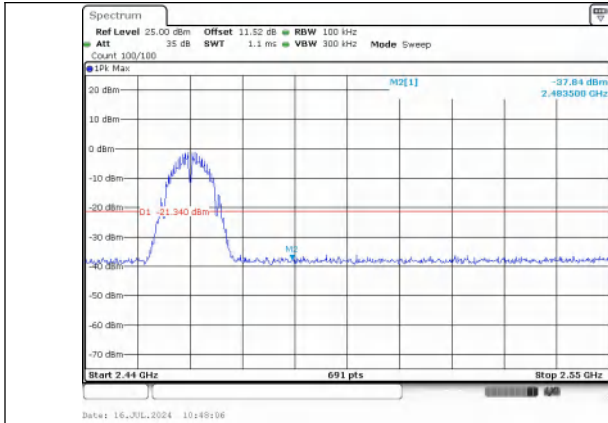
Conducted Out Of Band Emission

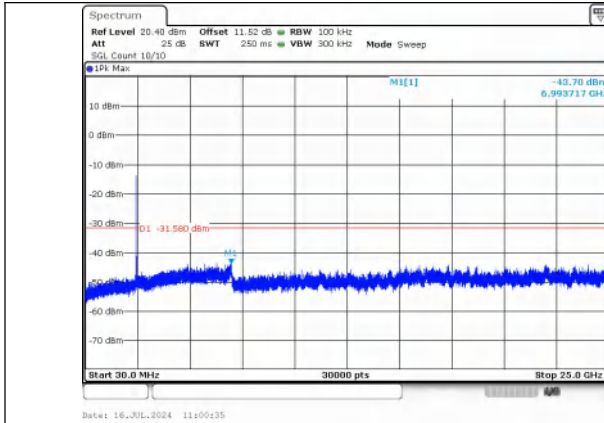
Test Result

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	
IEEE 802.11g	1			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	
IEEE 802.11n_20	1			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	
IEEE 802.11n_40	3			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	
IEEE 802.11ax_20	1			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			
IEEE 802.11ax_40	3	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			
IEEE 802.11ax_40	6	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			
IEEE 802.11ax_40	9	6914.65	-42.763	-34.14	-8.623	PASS		

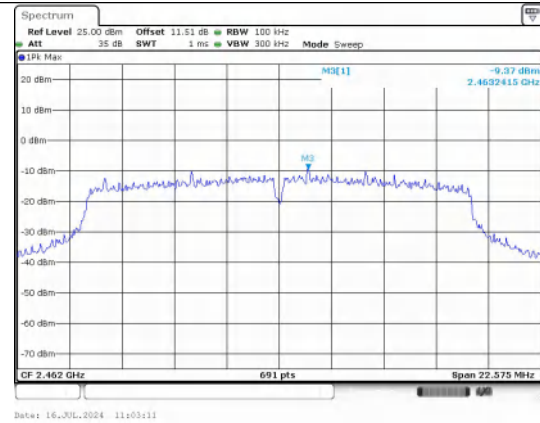
Test Graphs



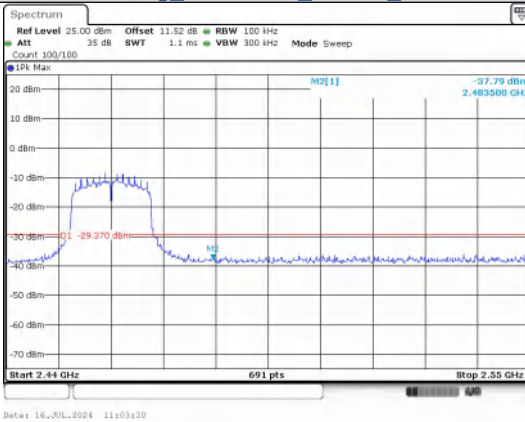




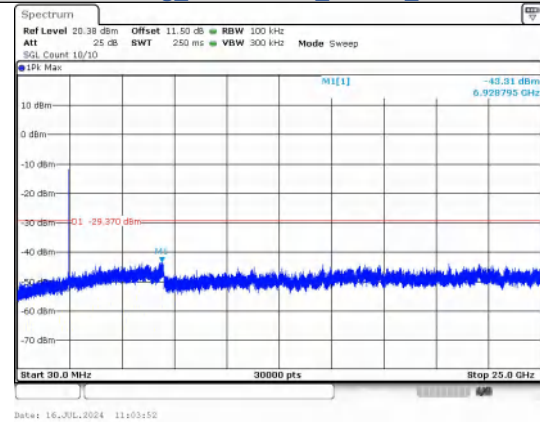
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



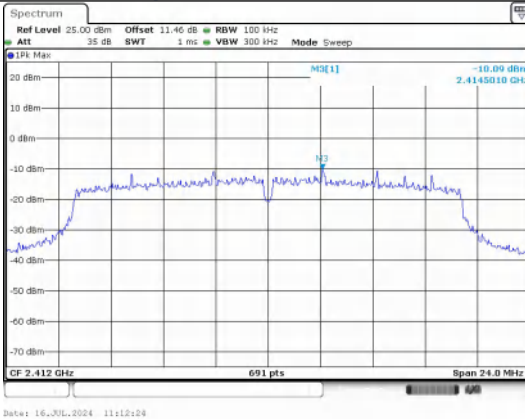
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



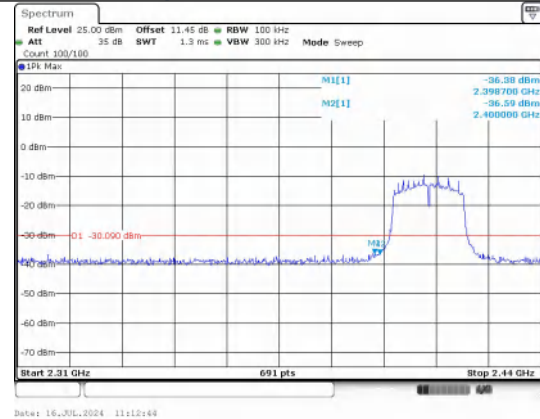
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



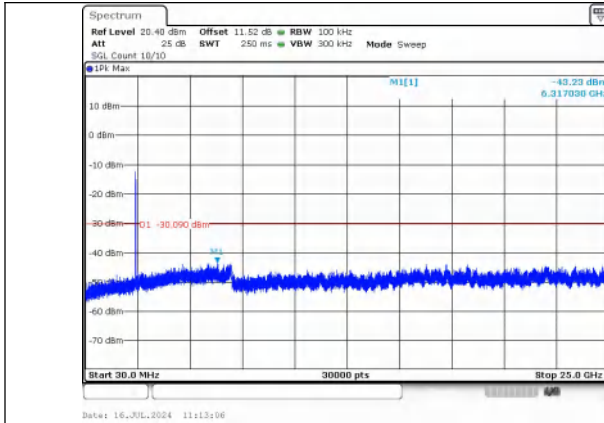
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



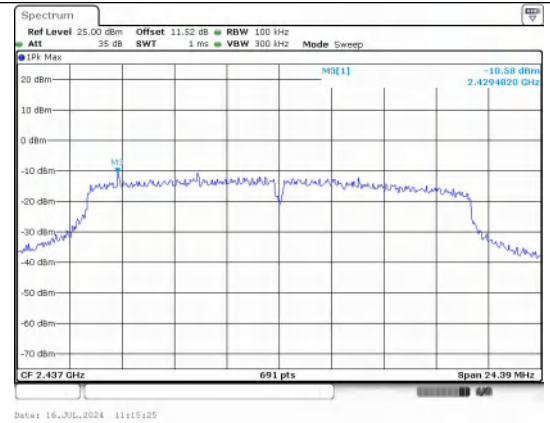
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



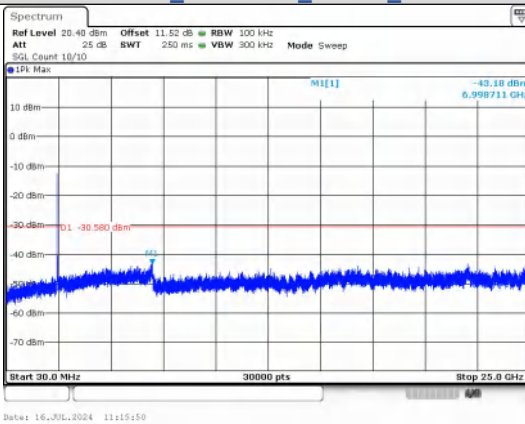
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



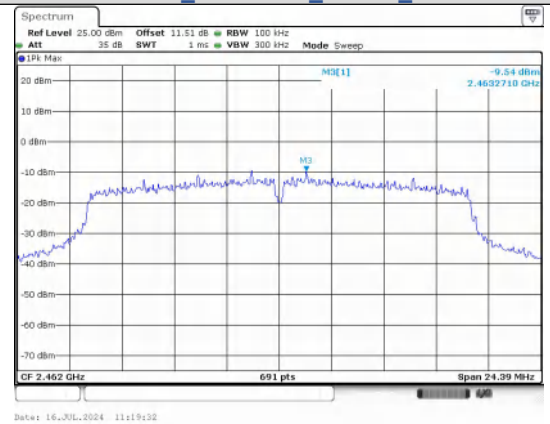
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IEEE 802.11n_Channel 1_20MHz_Antenna 0



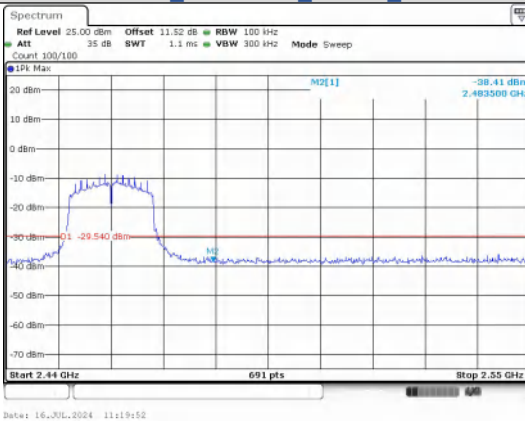
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



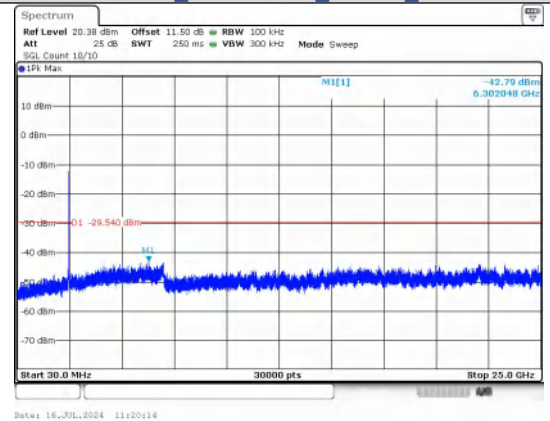
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



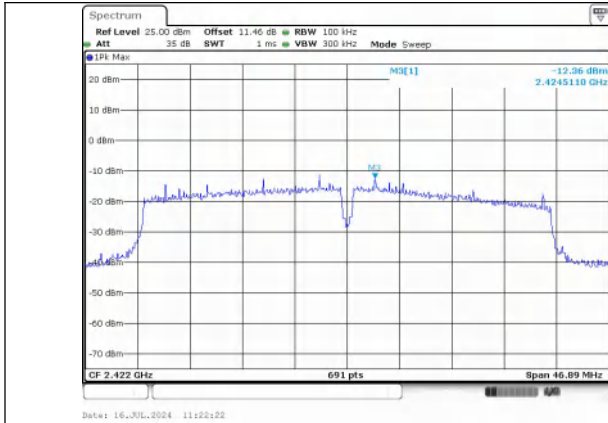
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IEEE 802.11n_Channel 11_20MHz_Antenna 0



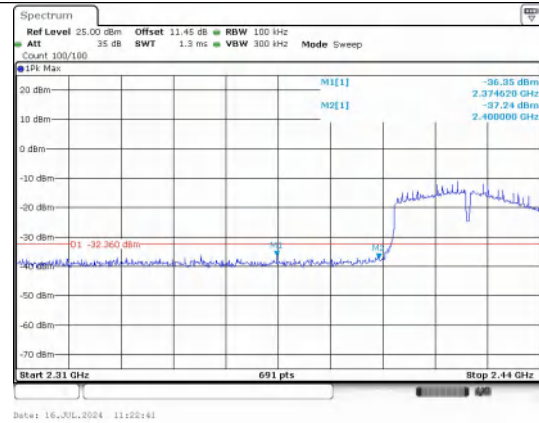
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



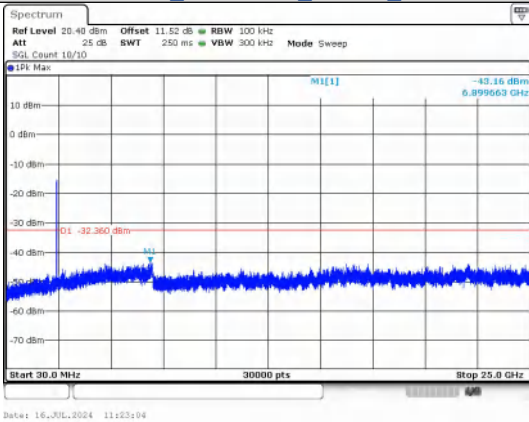
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IEEE 802.11n_Channel 11_20MHz_Antenna 0



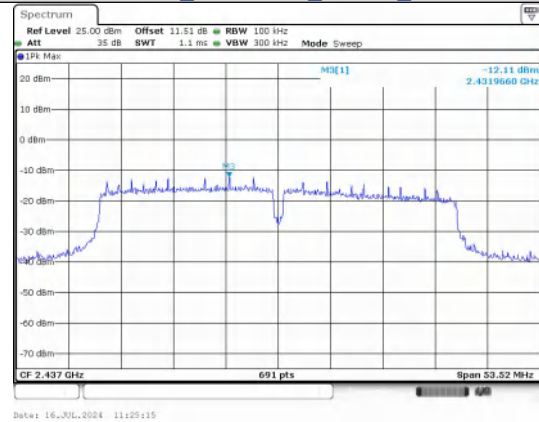
In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



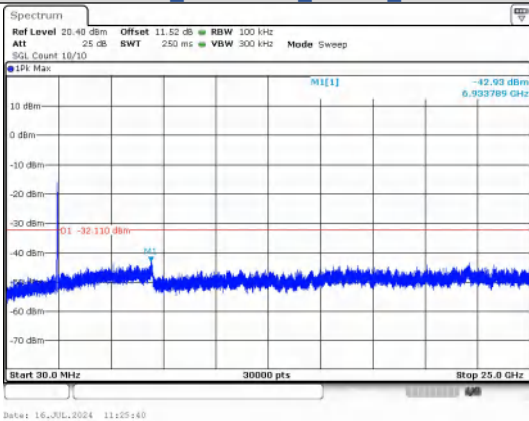
Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



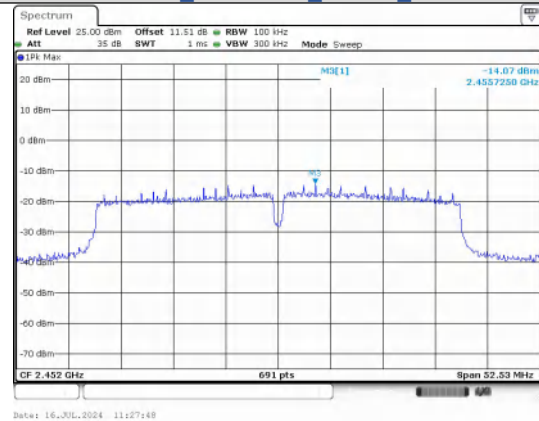
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IEEE 802.11n_Channel 3_40MHz_Antenna 0



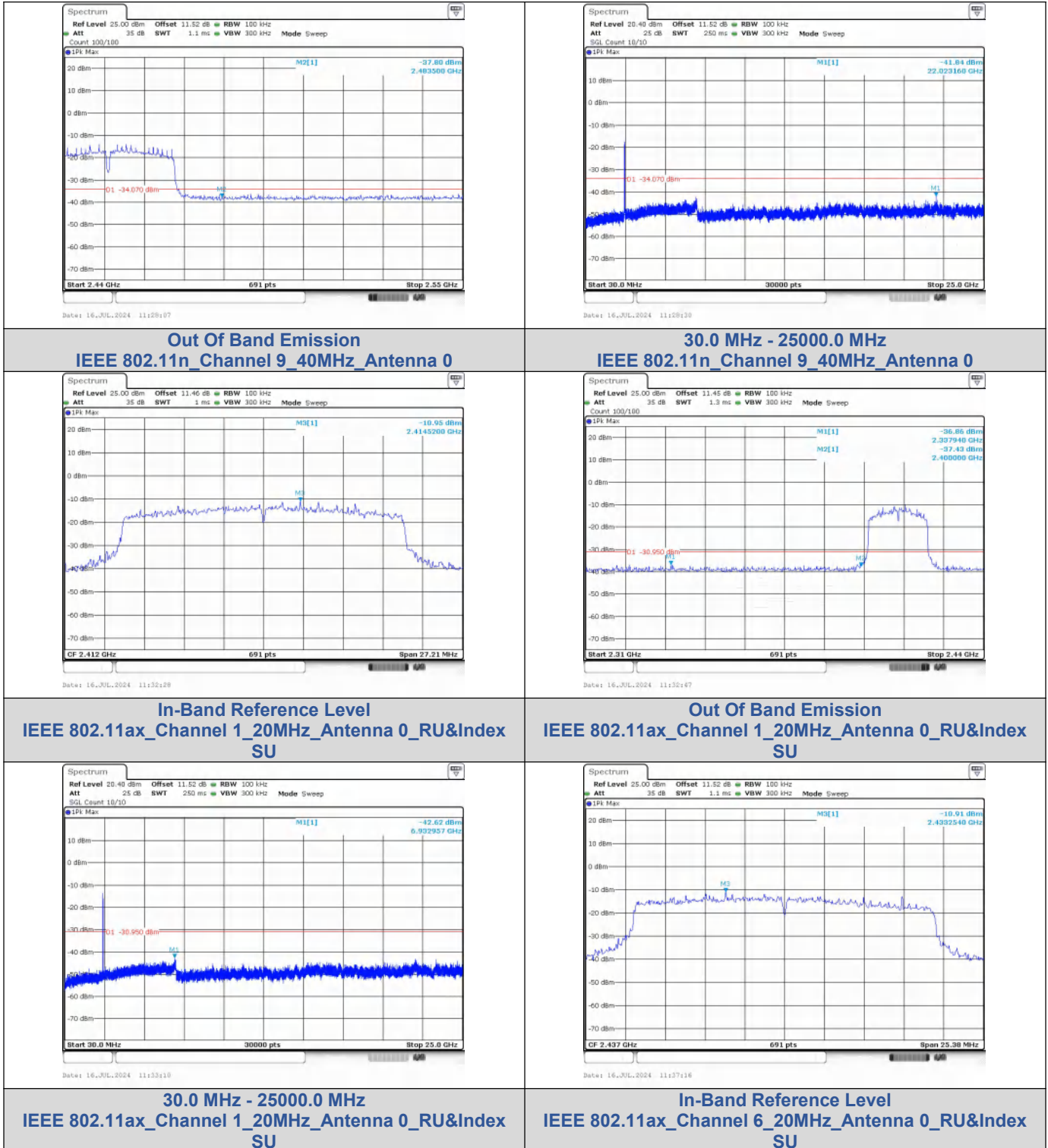
In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 0

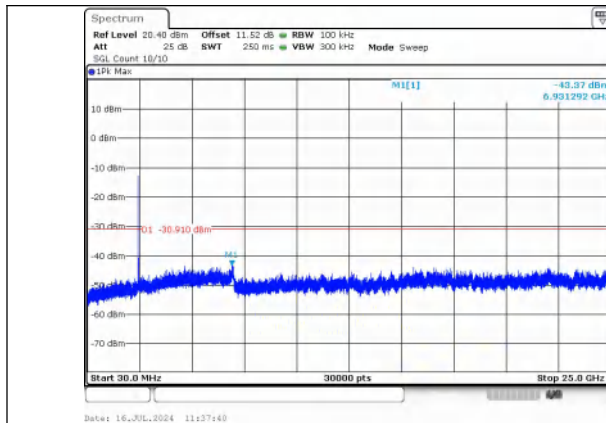


30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_40MHz_Antenna 0

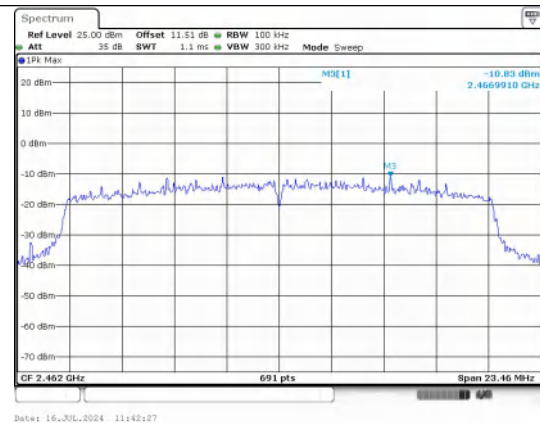


In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0

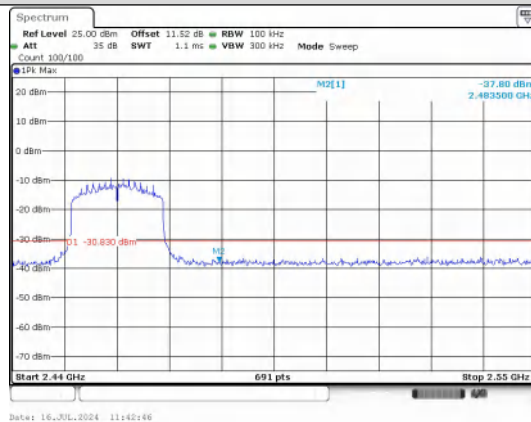




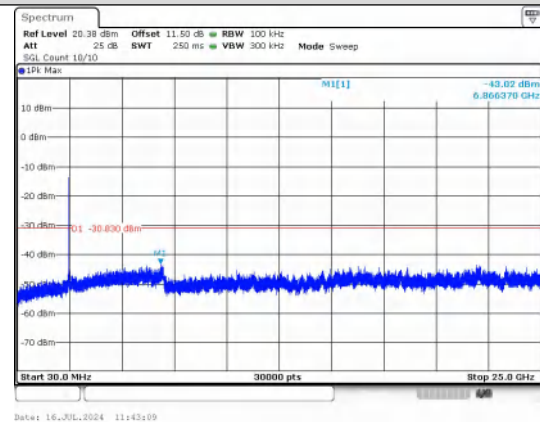
30.0 MHz - 25000.0 MHz
IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU



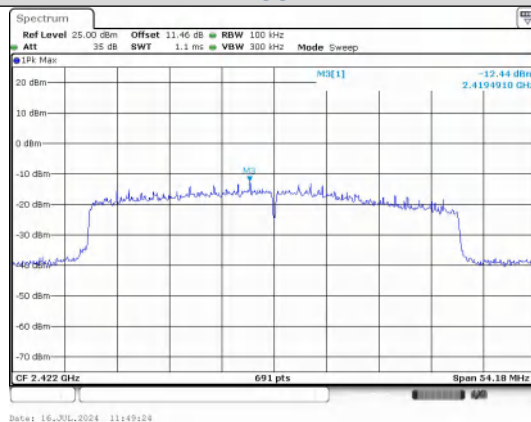
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IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



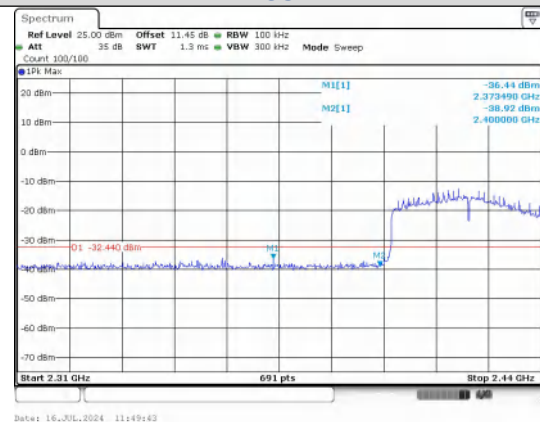
Out Of Band Emission
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



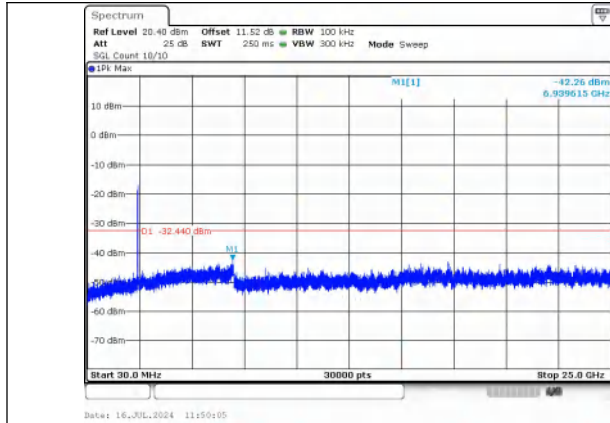
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IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



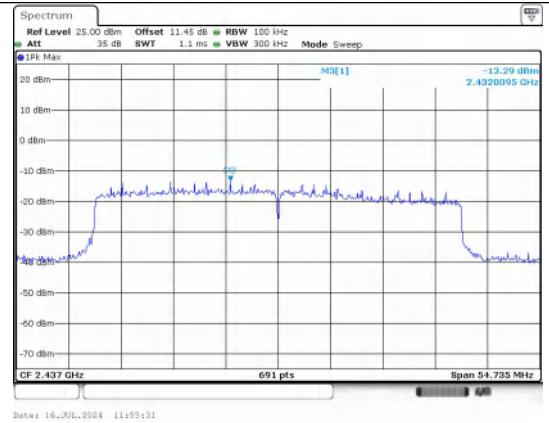
In-Band Reference Level
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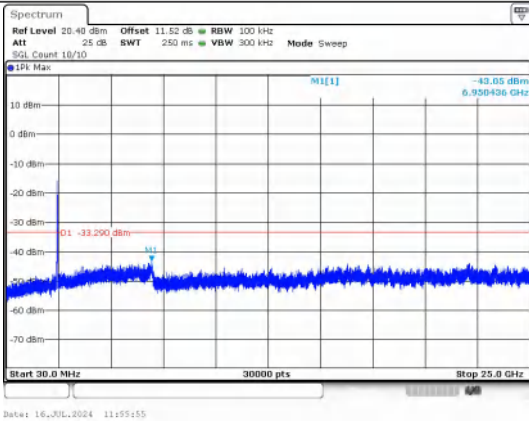
Out Of Band Emission
IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



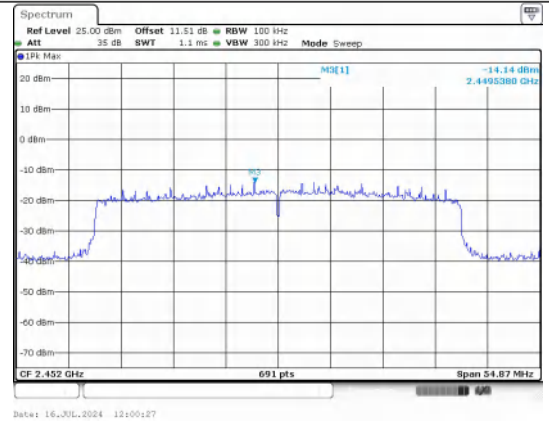
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IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index
SU



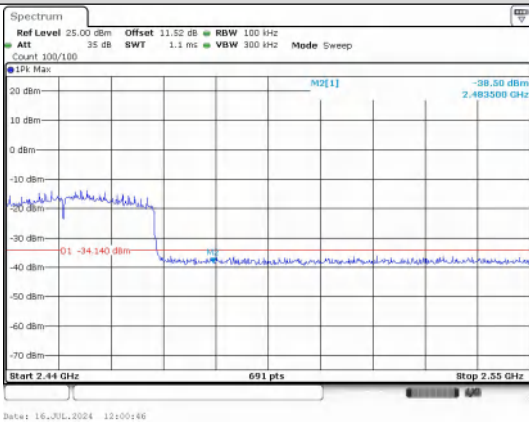
In-Band Reference Level
IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index
SU



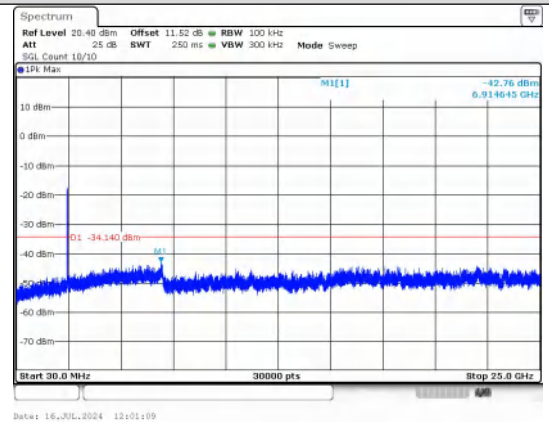
30.0 MHz - 25000.0 MHz
IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index
SU



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