

Appendix A

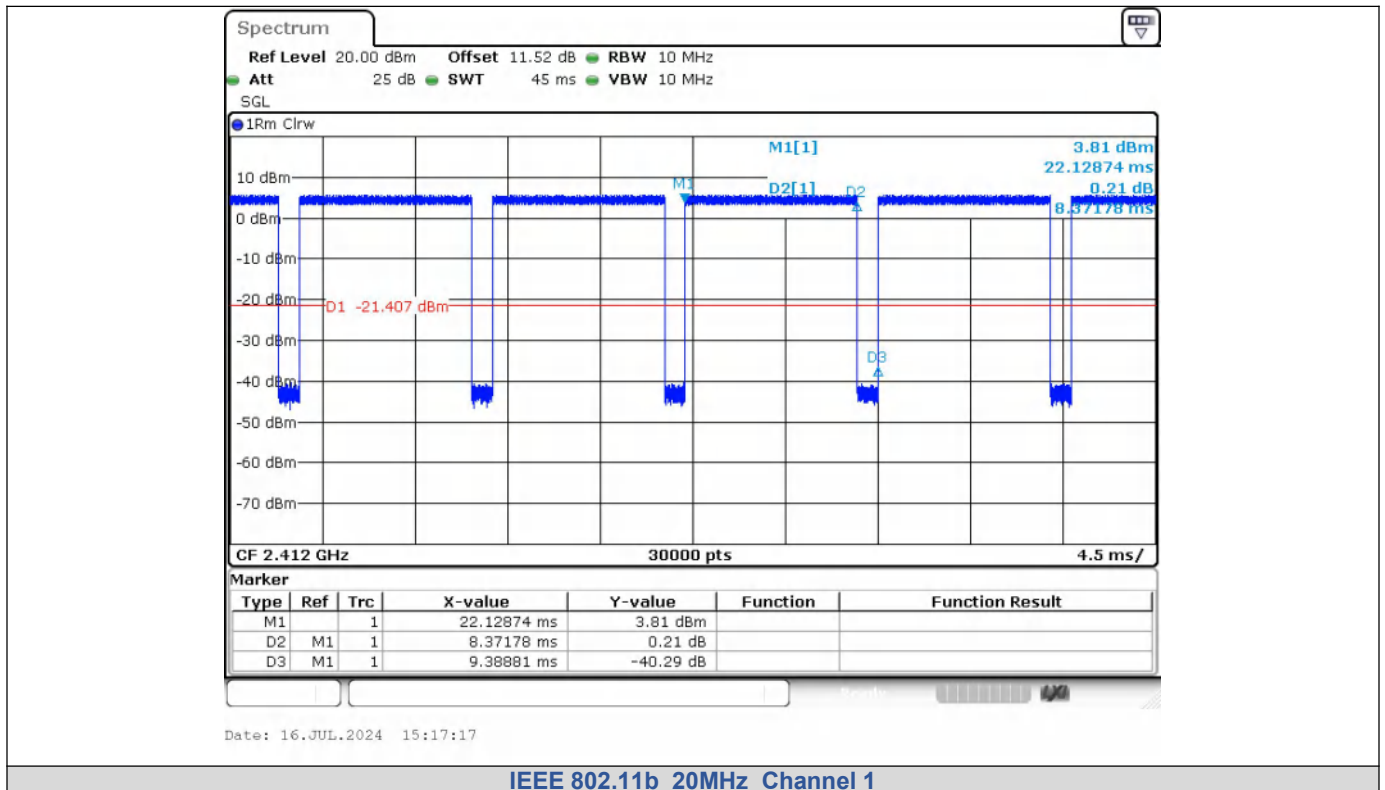
Report No.:	CISRR240704031
FCC ID:	2BFI9-DQ02
Product Name:	Security Camera
Model No.:	DQ02
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

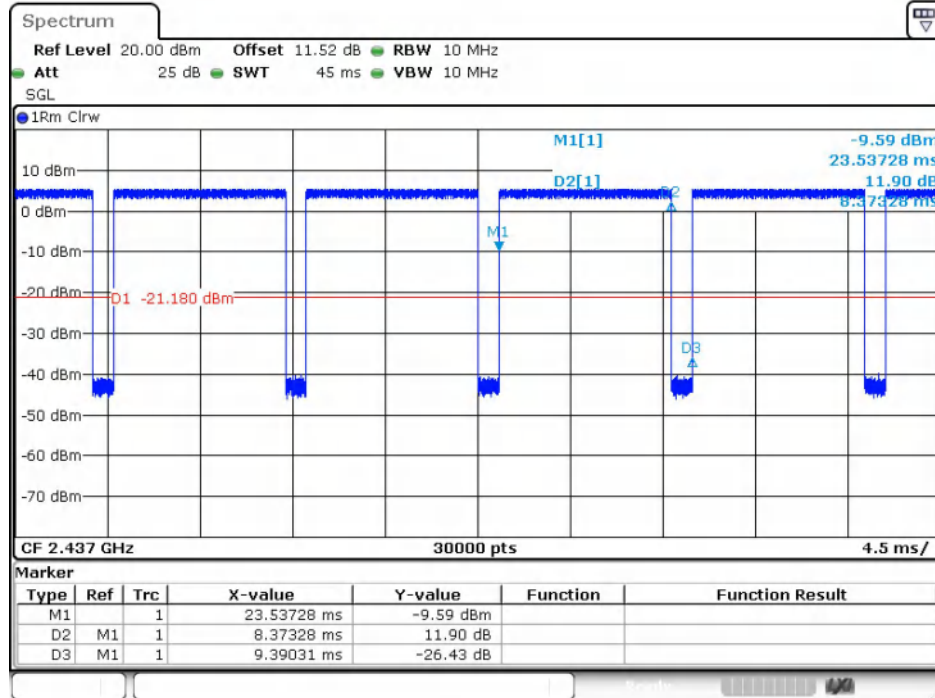
Duty Cycle

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	8.372	9.389	89.17	0.8917	0.4978	0.12
		6			8.373	9.390	89.17	0.8917	0.4978	0.12
		11			8.372	9.389	89.17	0.8917	0.4978	0.12
IEEE 802.11g		1			1.400	2.420	57.85	0.5785	2.377	0.71
		6			1.399	2.427	57.64	0.5764	2.3928	0.71
		11			1.402	2.427	57.79	0.5779	2.3815	0.71
IEEE 802.11n_20	1	5.096			6.111	83.39	0.8339	0.7889	0.20	
	6	5.096			6.111	83.39	0.8339	0.7889	0.20	
	11	5.099			6.113	83.40	0.8340	0.7883	0.20	
	IEEE 802.11n_40	3			4.905	5.926	82.76	0.8276	0.8218	0.20
		6			4.911	5.927	82.86	0.8286	0.8166	0.20
		9			4.905	5.920	82.86	0.8286	0.8166	0.20
IEEE 802.11ax_20	1	SU	3.881		4.905	79.13	0.7913	1.0166	0.26	
	6		3.884		4.907	79.14	0.7914	1.016	0.26	
	11		3.883		4.907	79.14	0.7914	1.016	0.26	
IEEE 802.11ax_40	3		3.879		4.900	79.16	0.7916	1.0149	0.26	
	6		3.879		4.898	79.19	0.7919	1.0133	0.26	
	9		3.879		4.903	79.12	0.7912	1.0171	0.26	

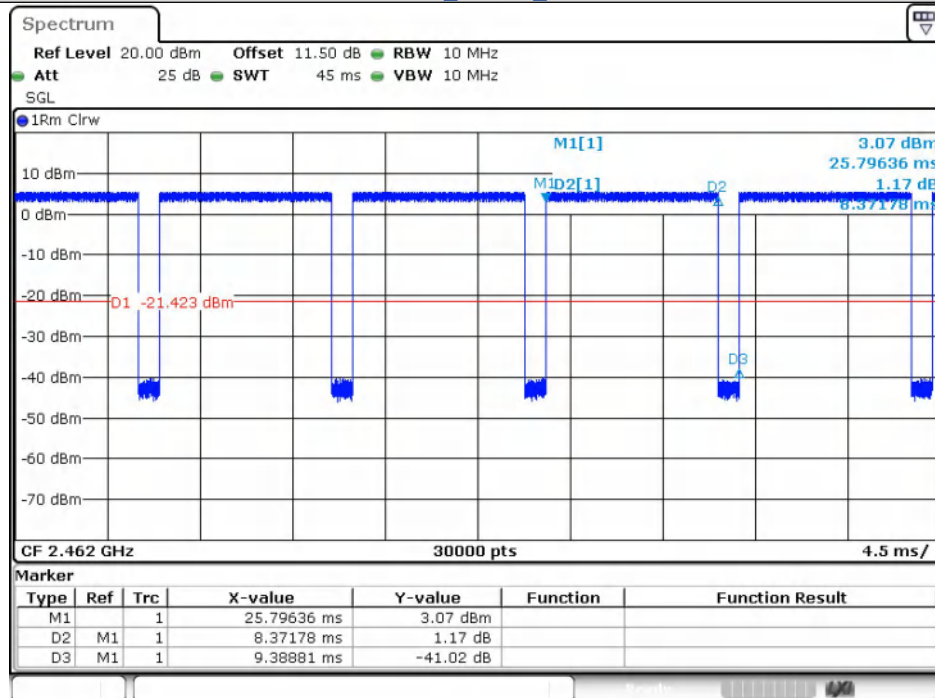
Test Graphs





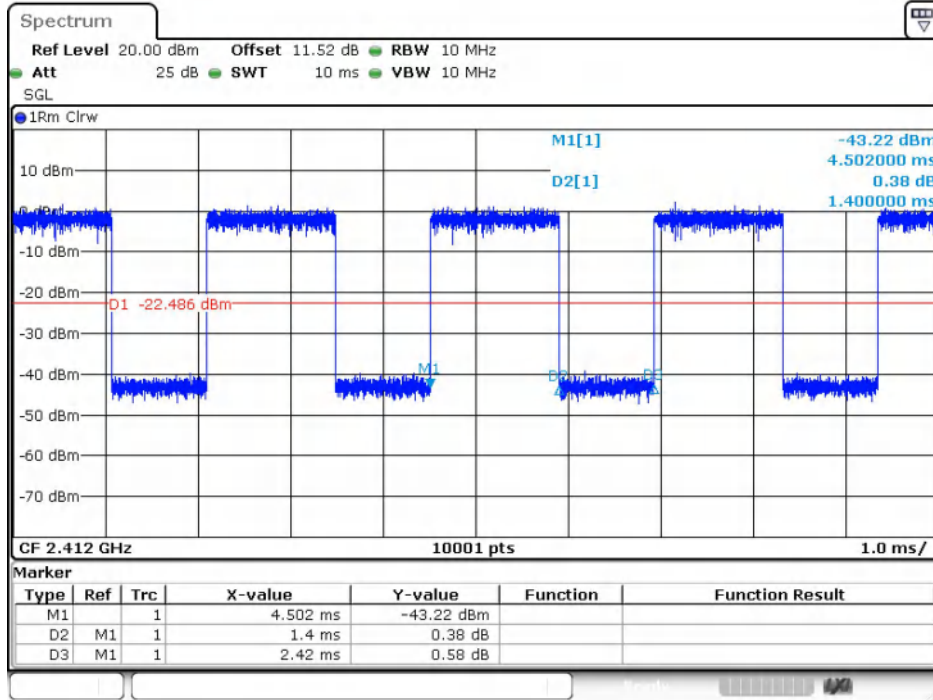
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IEEE 802.11b_20MHz_Channel 6



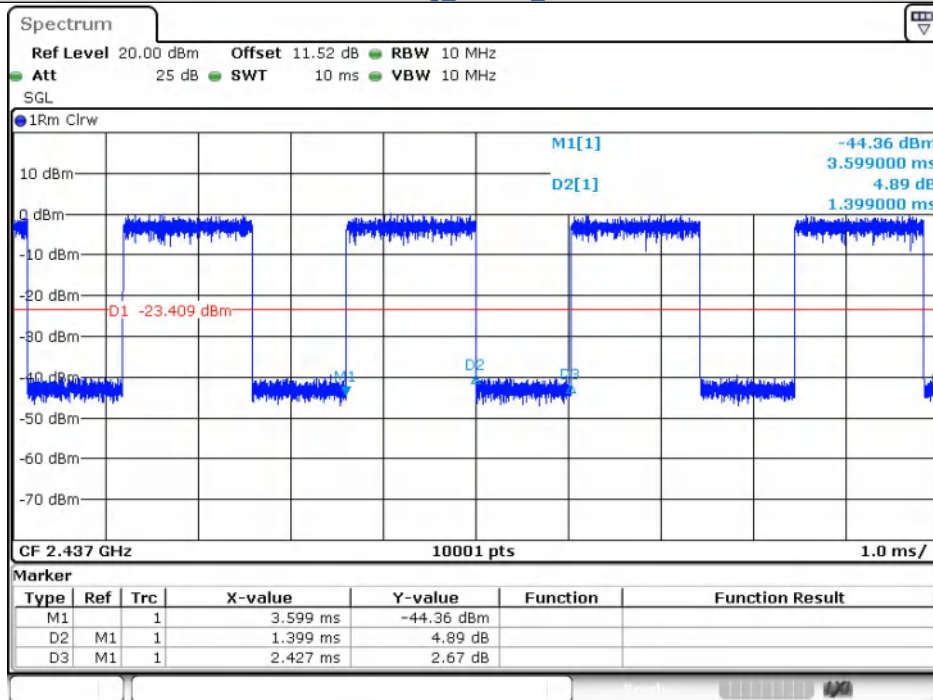
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IEEE 802.11b_20MHz_Channel 11



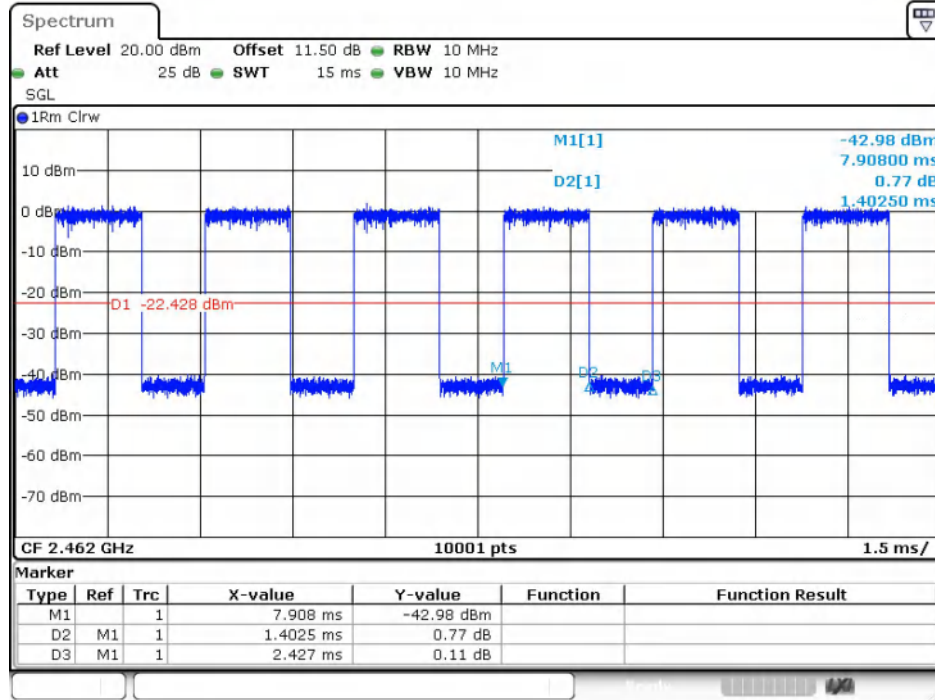
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IEEE 802.11g_20MHz_Channel 1



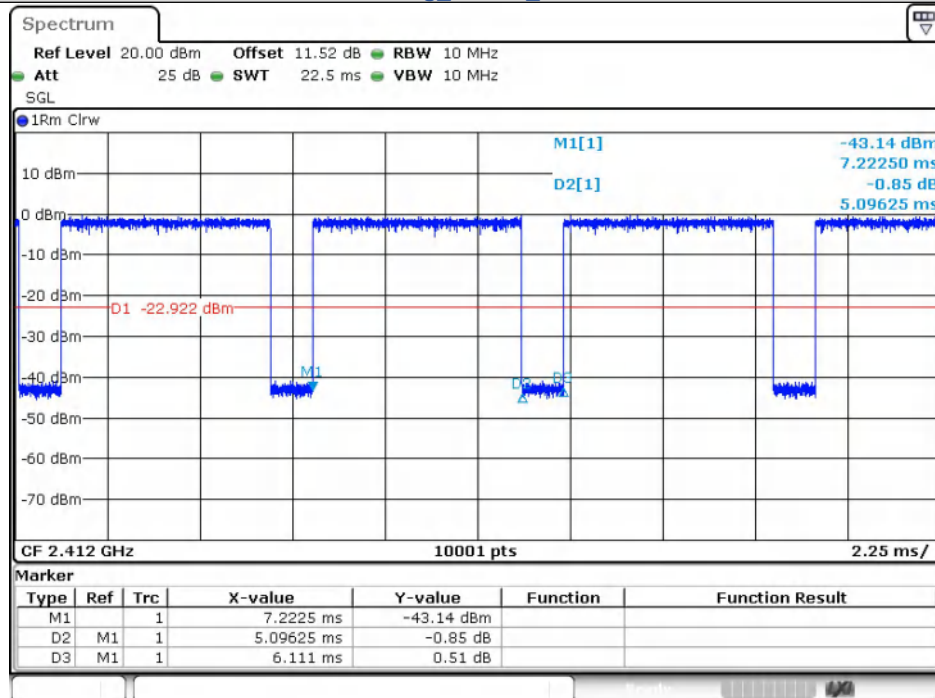
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IEEE 802.11g_20MHz_Channel 6



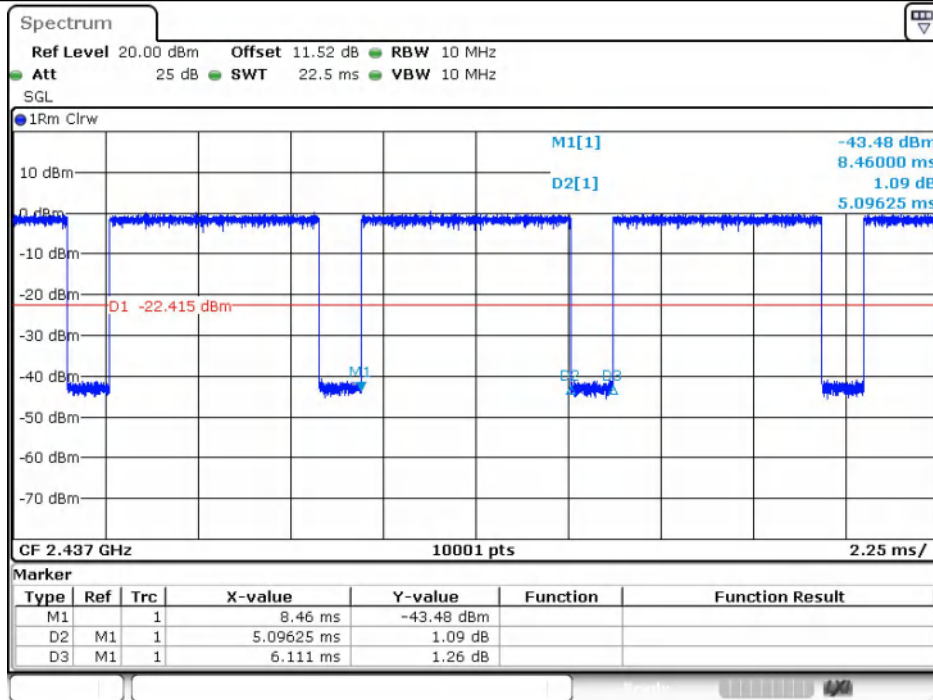
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IEEE 802.11g_20MHz_Channel 11



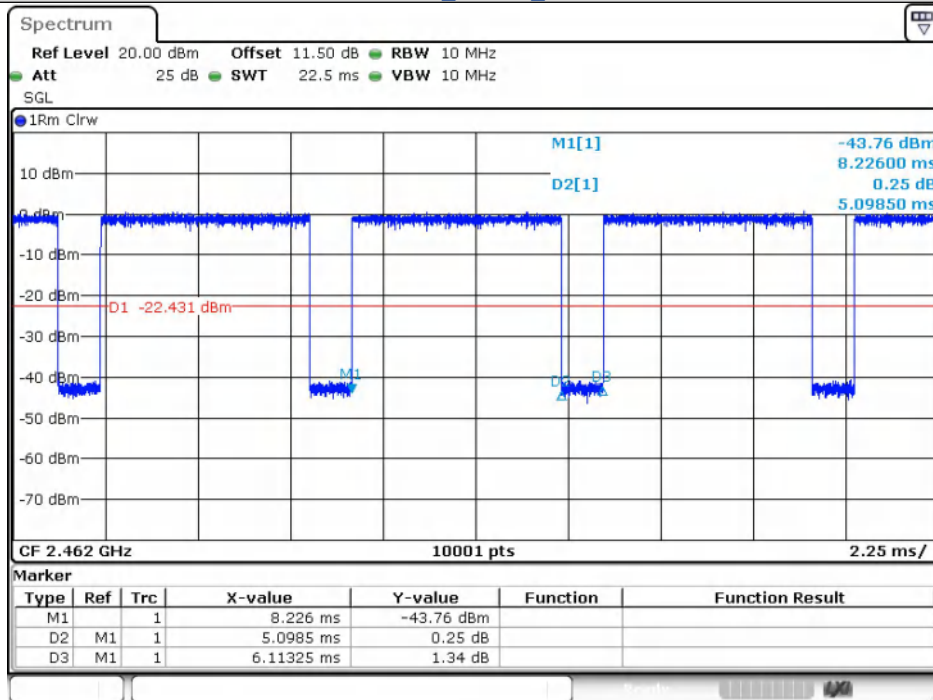
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IEEE 802.11n_20MHz_Channel 1



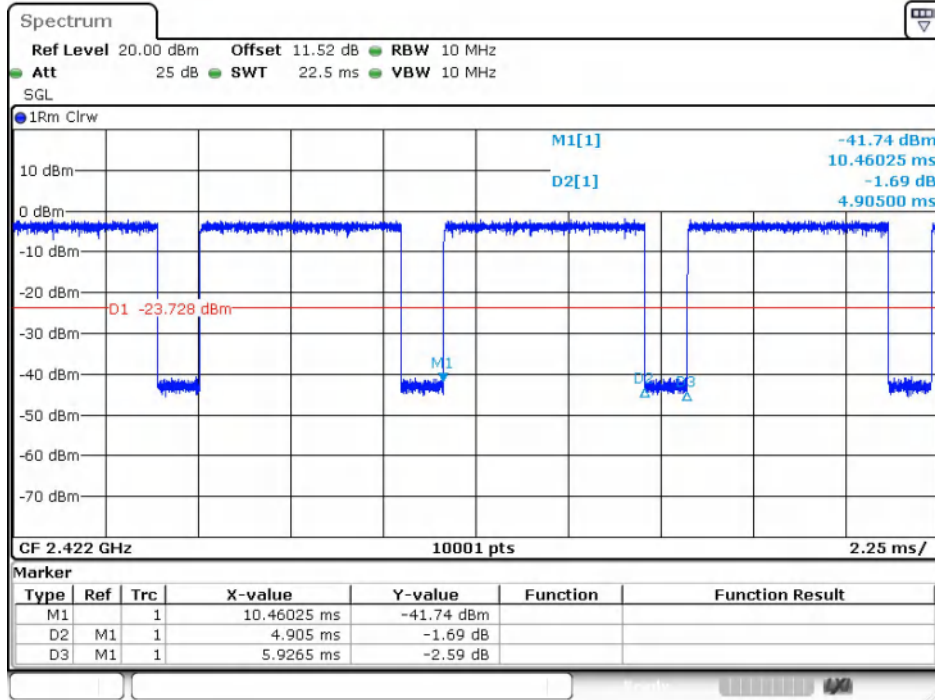
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IEEE 802.11n_20MHz_Channel 6



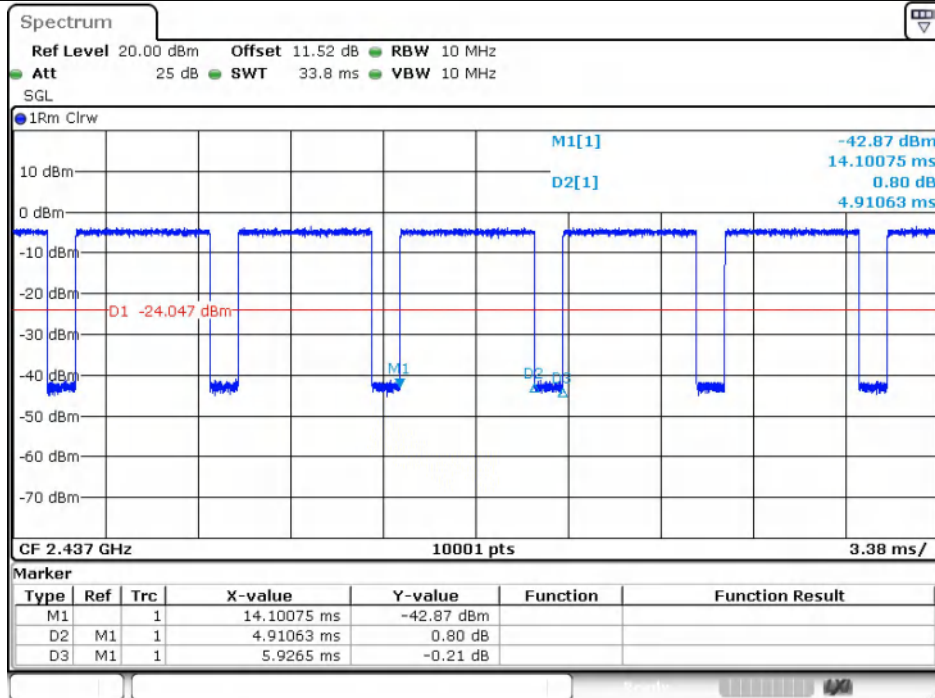
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IEEE 802.11n_20MHz_Channel 11



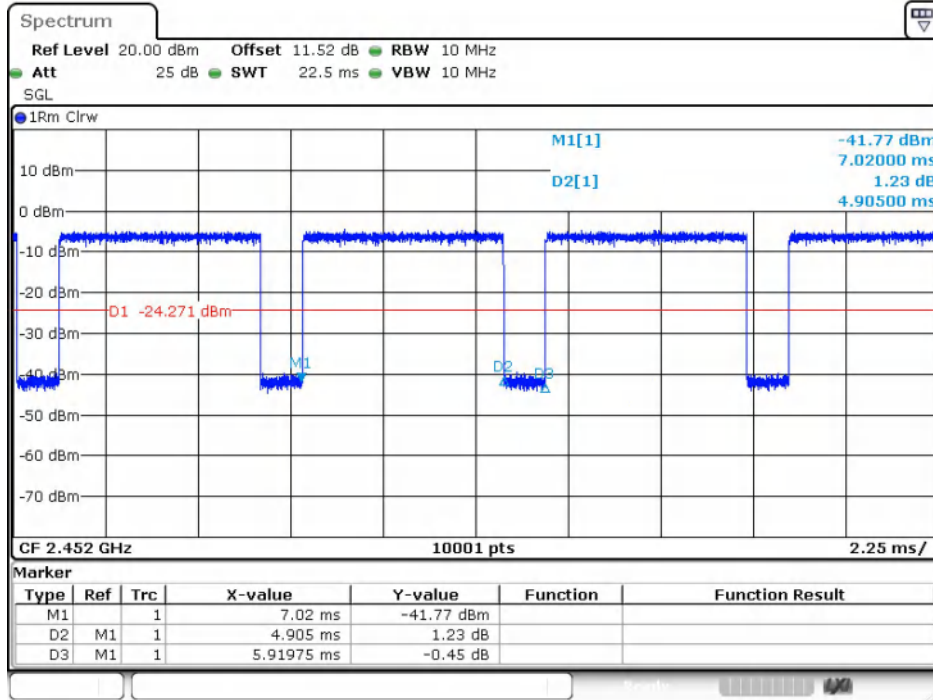
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IEEE 802.11n_40MHz_Channel 3



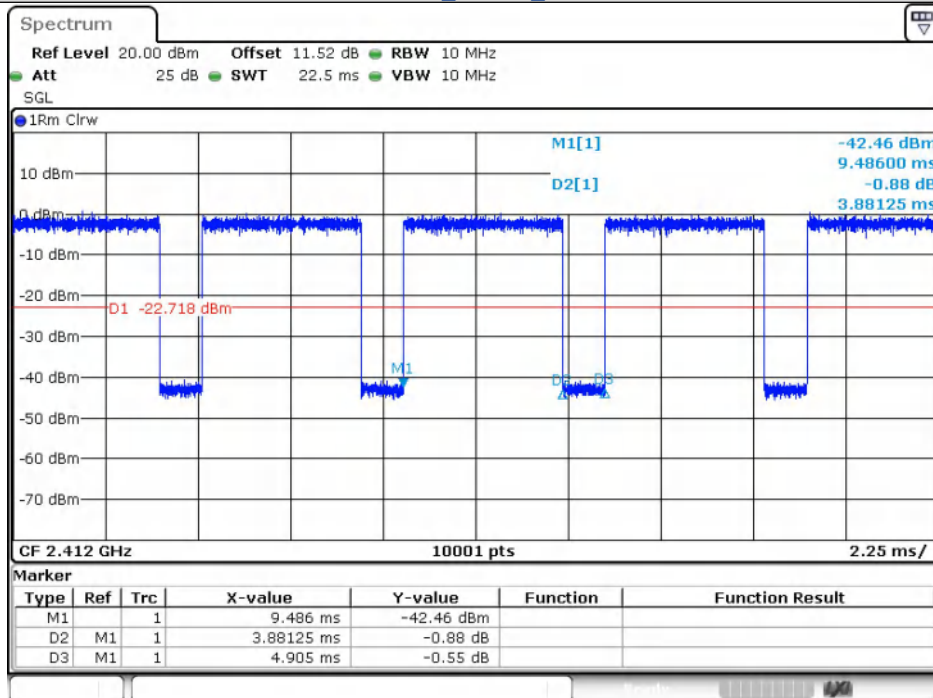
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IEEE 802.11n_40MHz_Channel 6



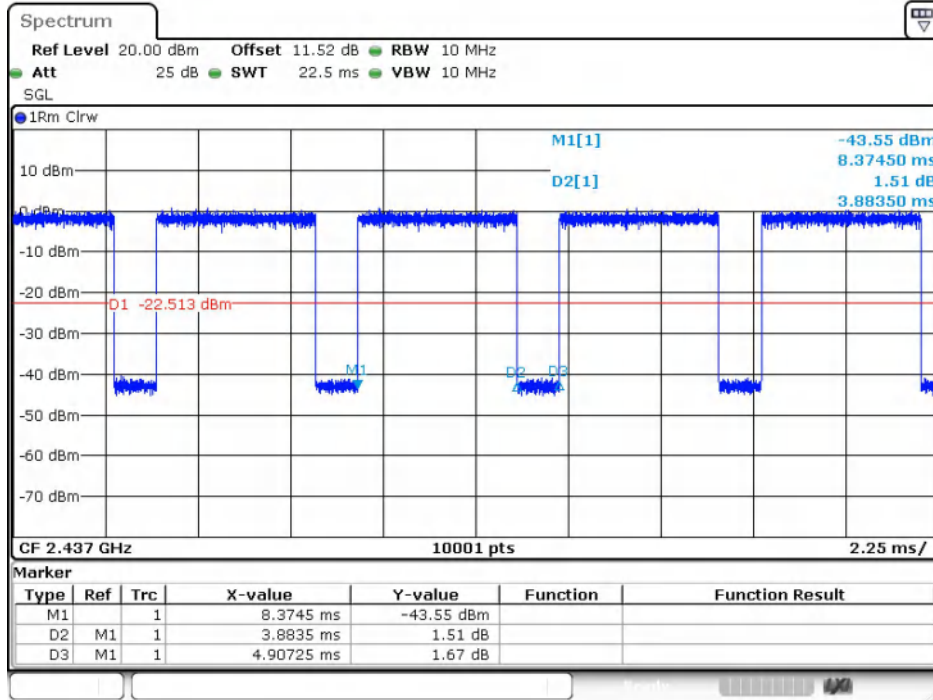
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IEEE 802.11n_40MHz_Channel 9



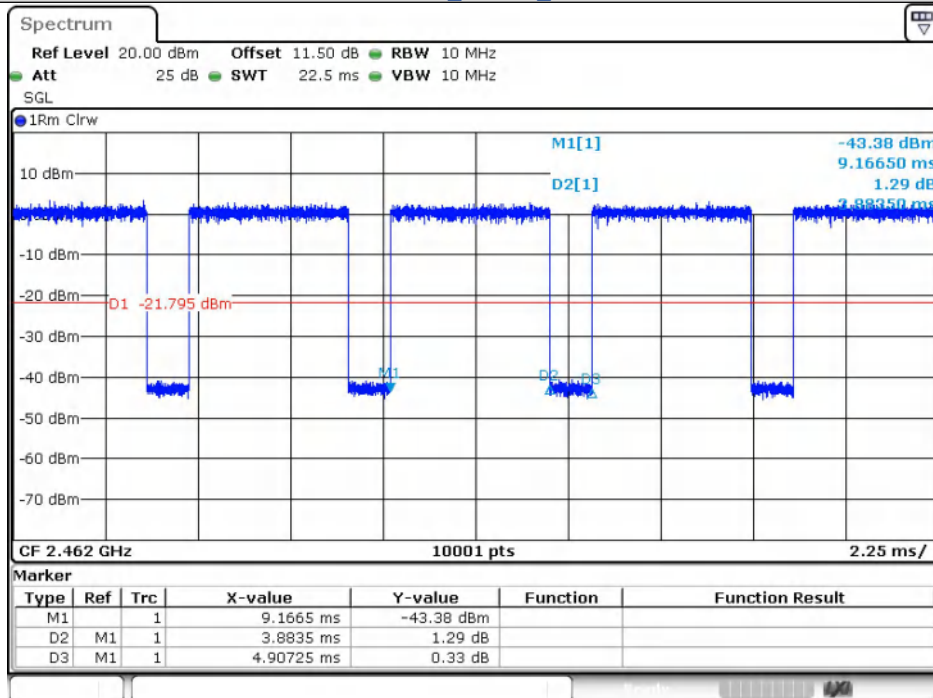
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IEEE 802.11ax_20MHz_Channel 1



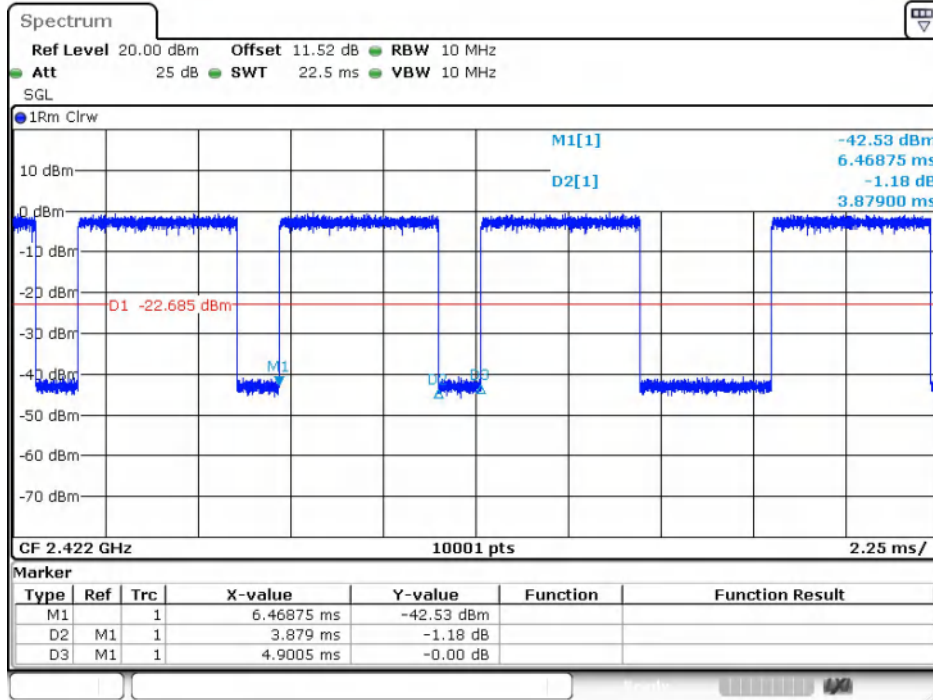
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IEEE 802.11ax_20MHz_Channel 6



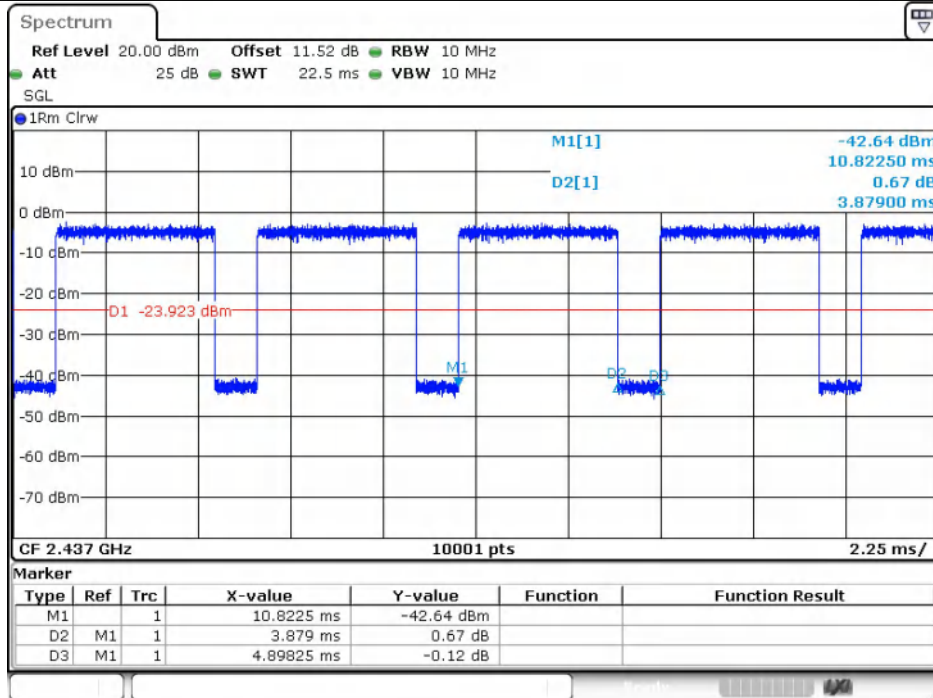
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IEEE 802.11ax_20MHz_Channel 11



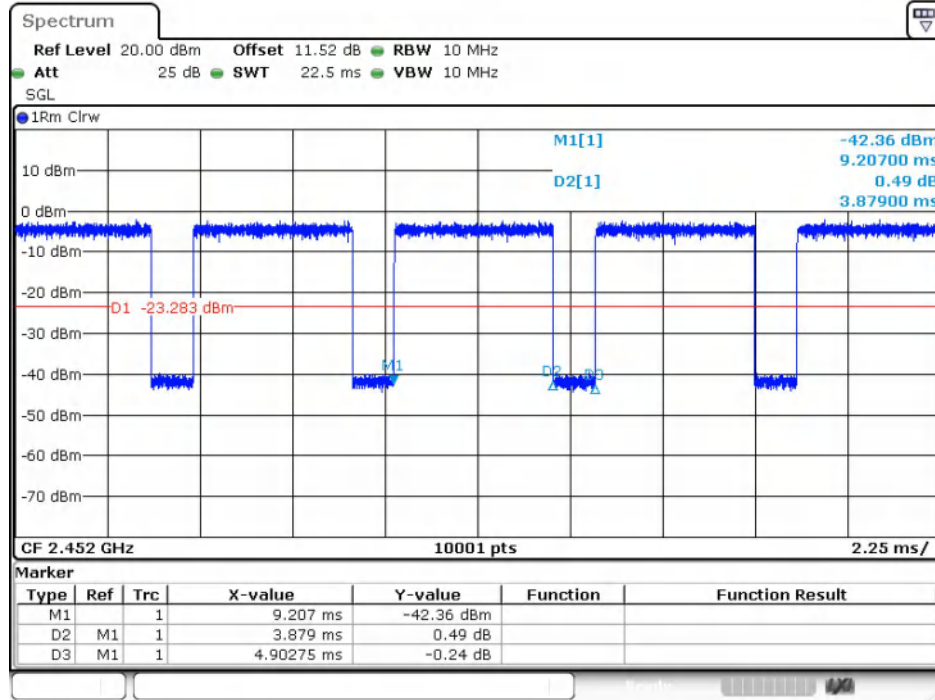
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IEEE 802.11ax_40MHz_Channel 3



Date: 16.JUL.2024 16:09:29

IEEE 802.11ax_40MHz_Channel 6



Date: 16.JUL.2024 16:13:04

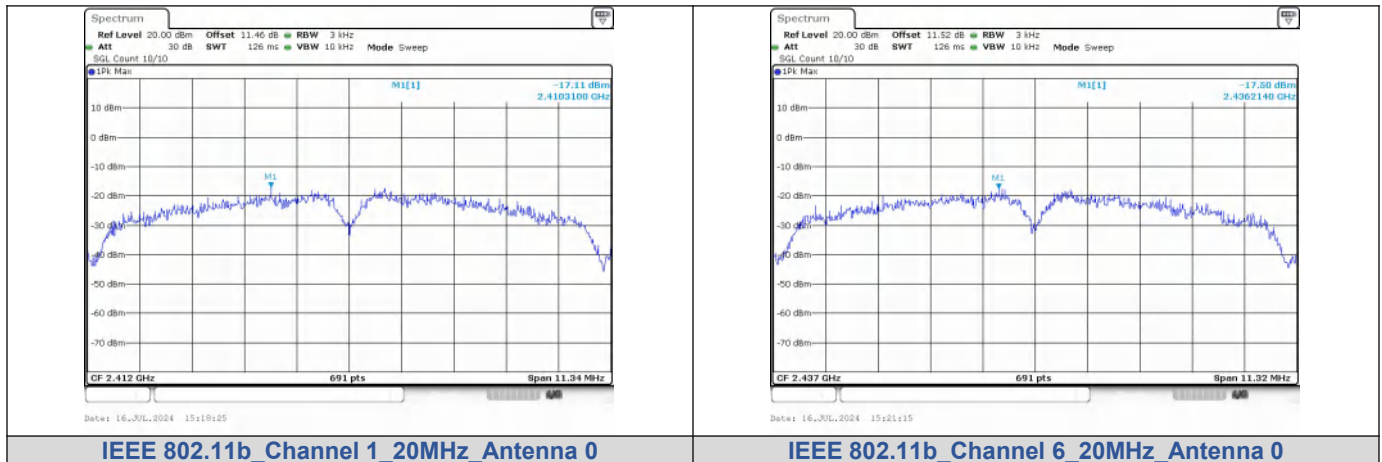
IEEE 802.11ax_40MHz_Channel 9

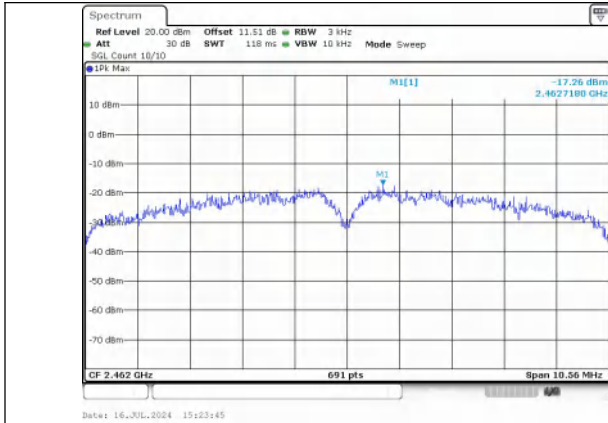
Power Spectral Density

Test Result

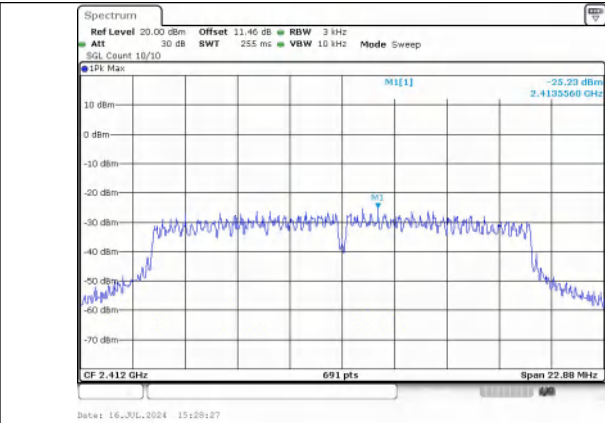
Mode	Channel	RU & Index	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	N/A	-17.111	≤8	PASS
	6		-17.499		PASS
	11		-17.264		PASS
IEEE 802.11g	1		-25.226		PASS
	6		-26.943		PASS
	11		-24.363		PASS
IEEE 802.11n_20	1		-25.141		PASS
	6		-24.287		PASS
	11		-23.732		PASS
IEEE 802.11n_40	3		-26.626		PASS
	6		-28.305		PASS
	9		-28.019		PASS
IEEE 802.11ax_20	1	SU	-25.004		PASS
	6		-26.655		PASS
	11		-24.136		PASS
IEEE 802.11ax_40	3		-26.678		PASS
	6		-28.017		PASS
	9		-29.157		PASS

Test Graphs

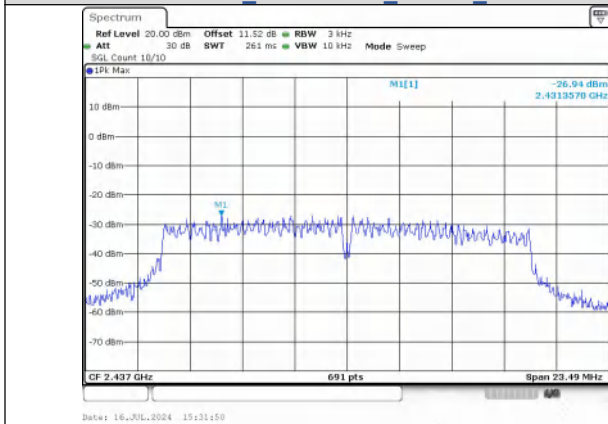




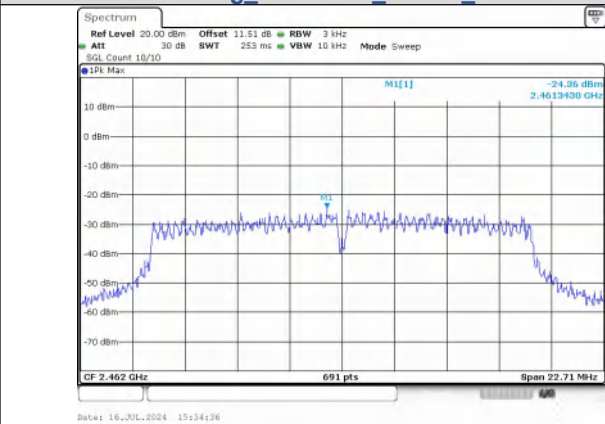
IEEE 802.11b_Channel 11_20MHz_Antenna 0



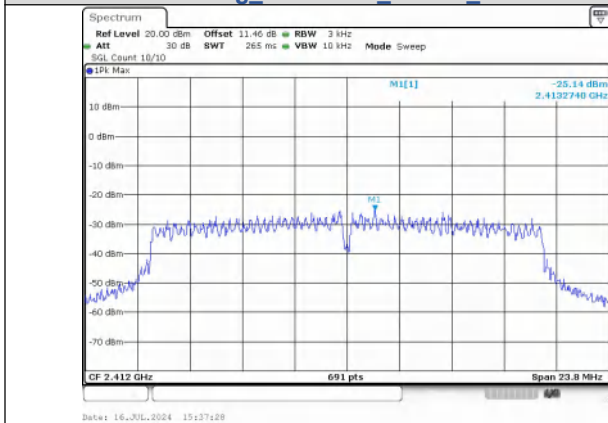
IEEE 802.11g_Channel 1_20MHz_Antenna 0



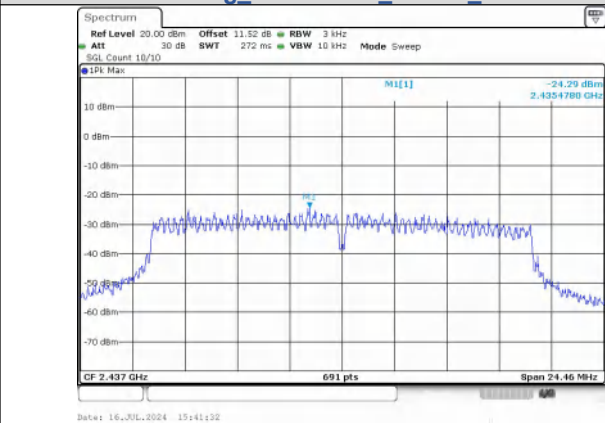
IEEE 802.11g_Channel 6_20MHz_Antenna 0



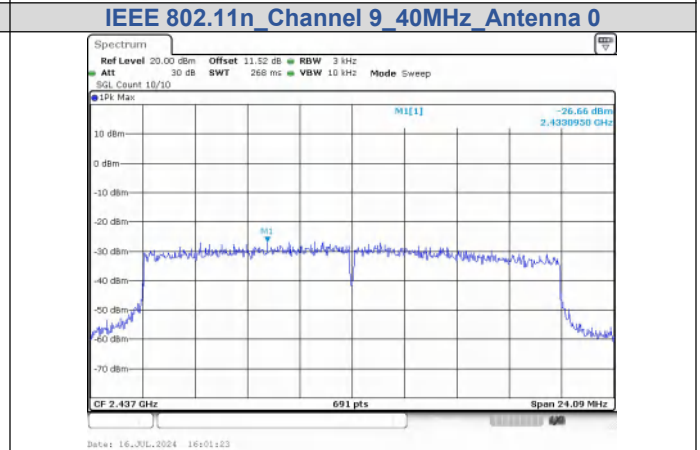
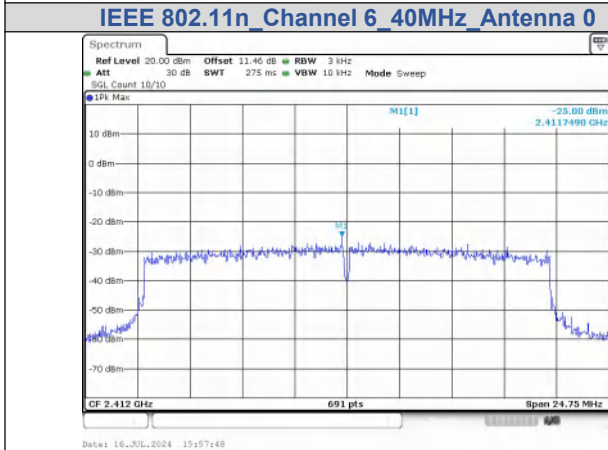
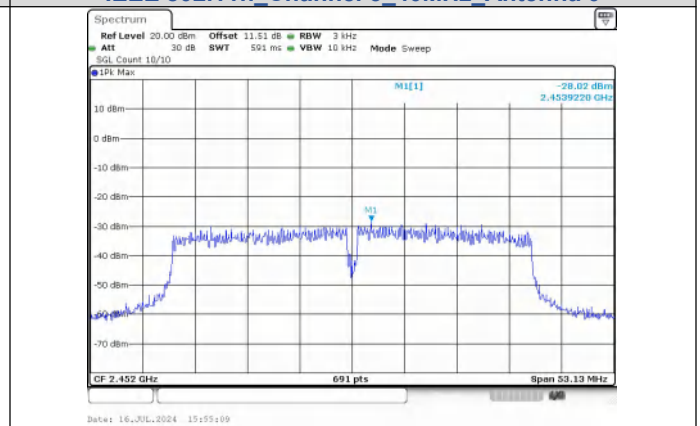
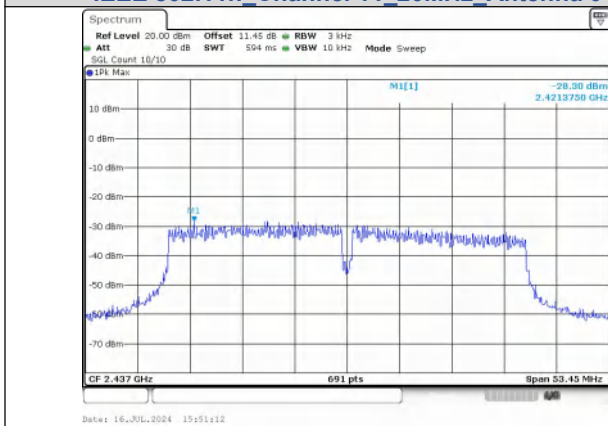
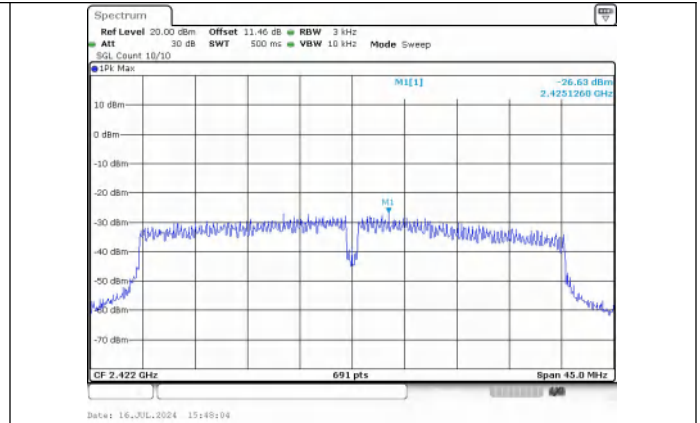
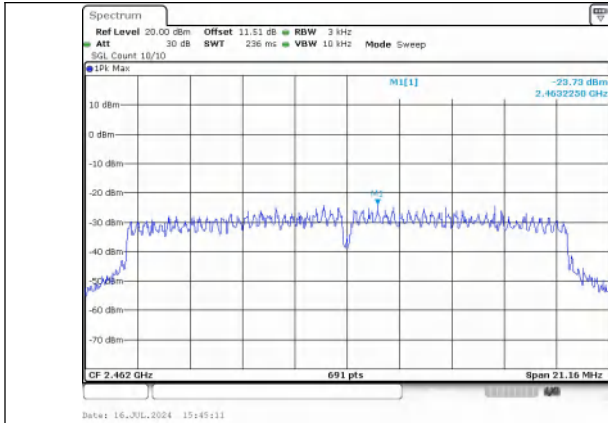
IEEE 802.11g_Channel 11_20MHz_Antenna 0

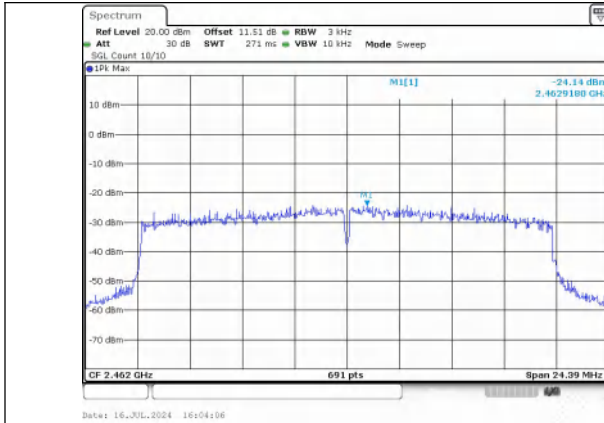


IEEE 802.11n_Channel 1_20MHz_Antenna 0

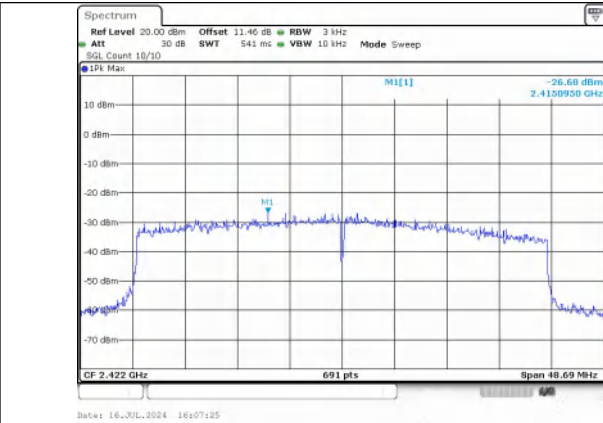


IEEE 802.11n_Channel 6_20MHz_Antenna 0

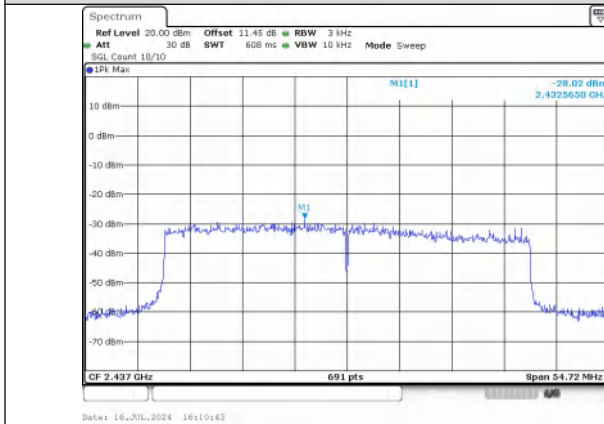




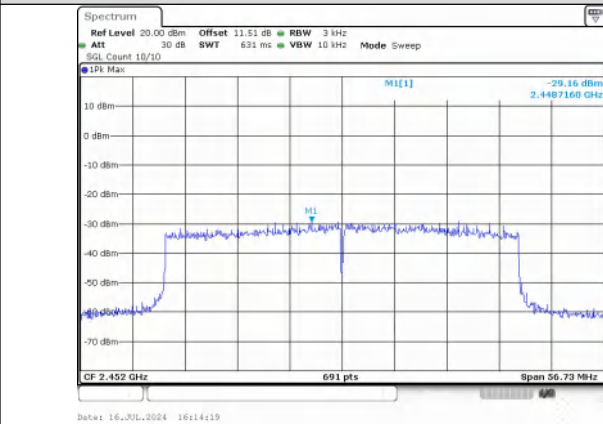
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index
SU



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

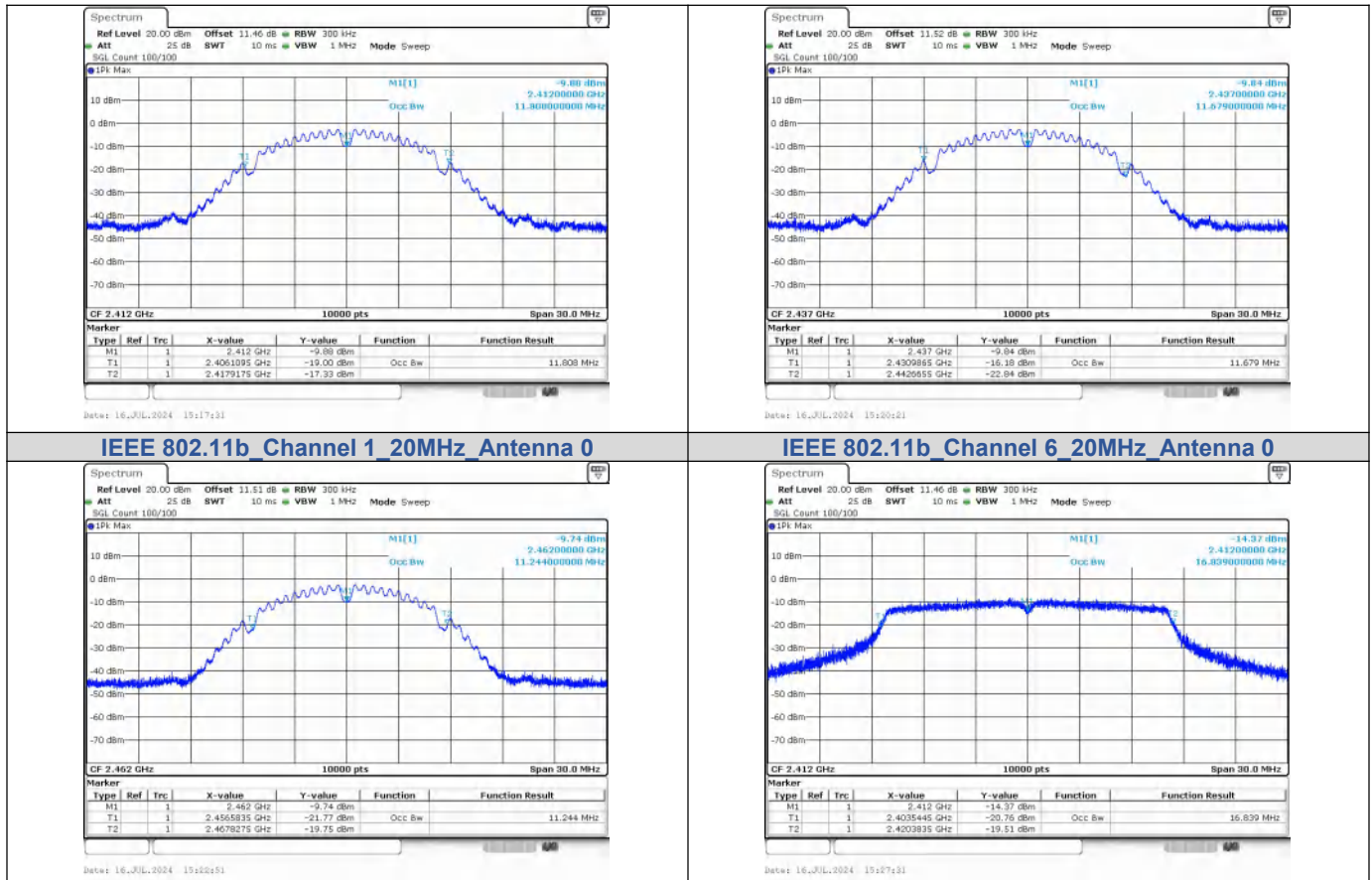
Mode	Channel	RU & Index	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	N/A	7.68	≤30	PASS
	6		7.57	≤30	PASS
	11		7.44	≤30	PASS
IEEE 802.11g	1		7.66	≤30	PASS
	6		6.59	≤30	PASS
	11		8.12	≤30	PASS
IEEE 802.11n_20	1		7.64	≤30	PASS
	6		8.27	≤30	PASS
	11		8.09	≤30	PASS
IEEE 802.11n_40	3		8.19	≤30	PASS
	6		8.22	≤30	PASS
	9		7.51	≤30	PASS
IEEE 802.11ax_20	1	SU	8.67	≤30	PASS
	6		8.34	≤30	PASS
	11		9.34	≤30	PASS
IEEE 802.11ax_40	3		8.06	≤30	PASS
	6		8.20	≤30	PASS
	9		8.68	≤30	PASS

99% Bandwidth

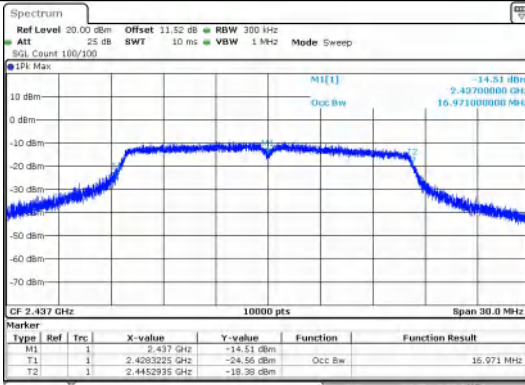
Test Result

Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	N/A	0	2412	11.810
	6			2437	11.680
	11			2462	11.240
IEEE 802.11g	1			2412	16.840
	6			2437	16.970
	11			2462	16.750
IEEE 802.11n_20	1			2412	17.980
	6			2437	18.100
	11			2462	17.900
IEEE 802.11n_40	3			2422	36.120
	6			2437	36.540
	9			2452	36.540
IEEE 802.11ax_20	1	SU		2412	19.000
	6			2437	19.080
	11			2462	18.980
IEEE 802.11ax_40	3			2422	37.500
	6			2437	37.850
	9			2452	37.850

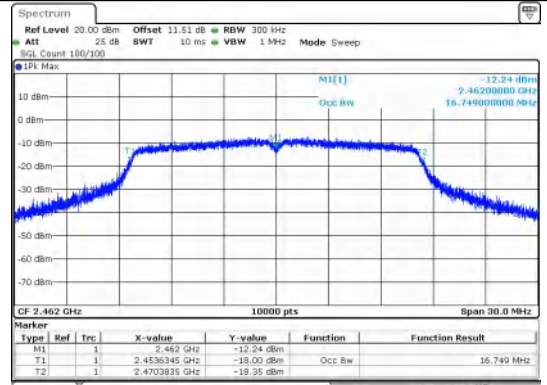
Test Graphs



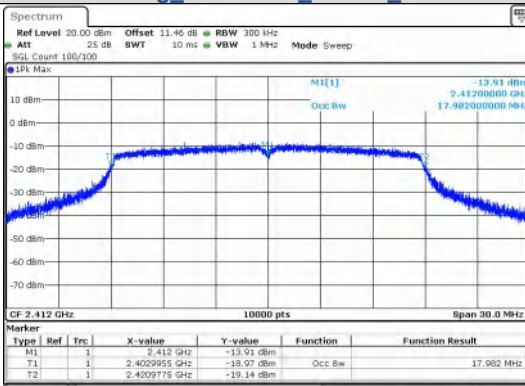
IEEE 802.11b Channel 11_20MHz_Antenna 0



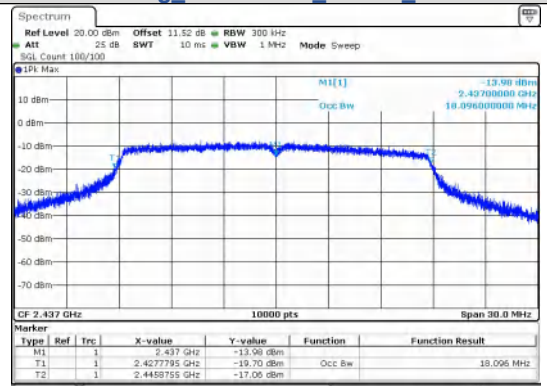
IEEE 802.11g Channel 1_20MHz_Antenna 0



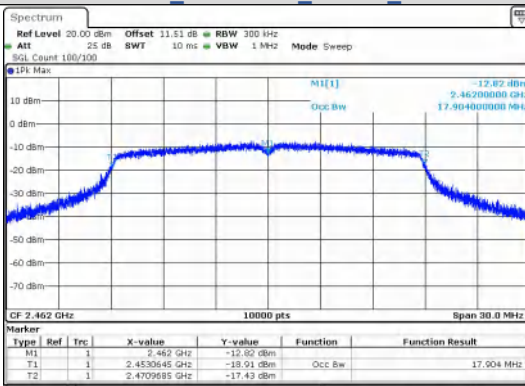
IEEE 802.11g Channel 6_20MHz_Antenna 0



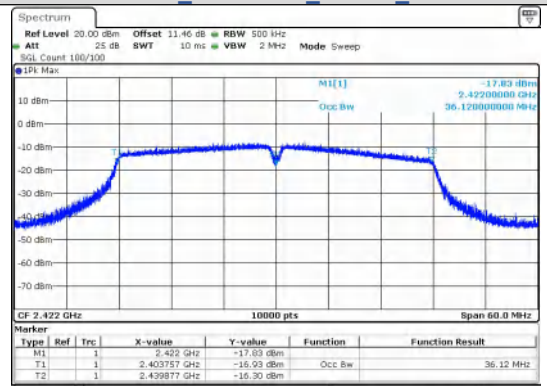
IEEE 802.11g Channel 11_20MHz_Antenna 0



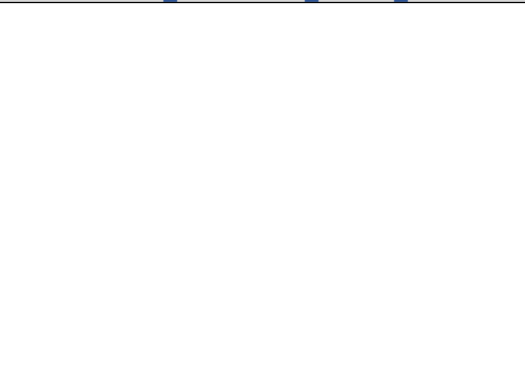
IEEE 802.11n Channel 1_20MHz_Antenna 0



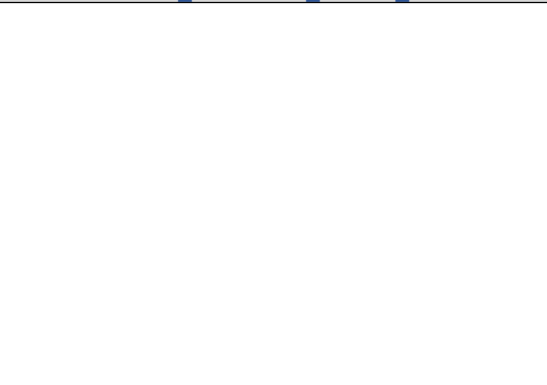
IEEE 802.11n Channel 6_20MHz_Antenna 0

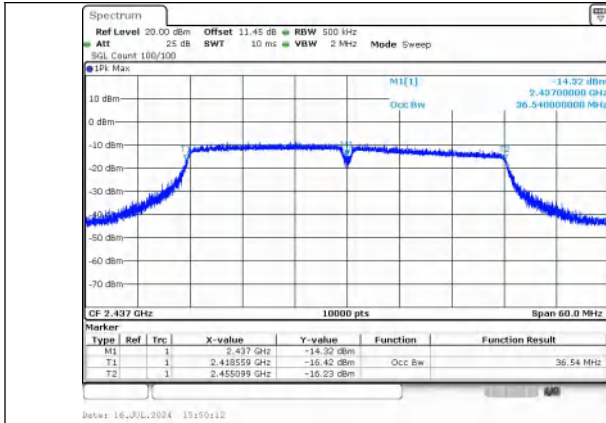


IEEE 802.11n Channel 11_20MHz_Antenna 0

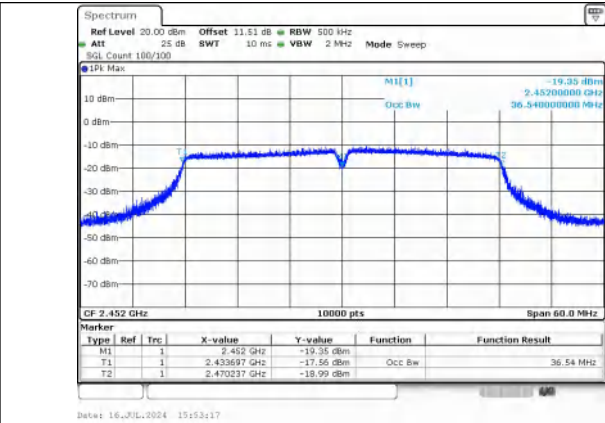


IEEE 802.11n Channel 3_40MHz_Antenna 0

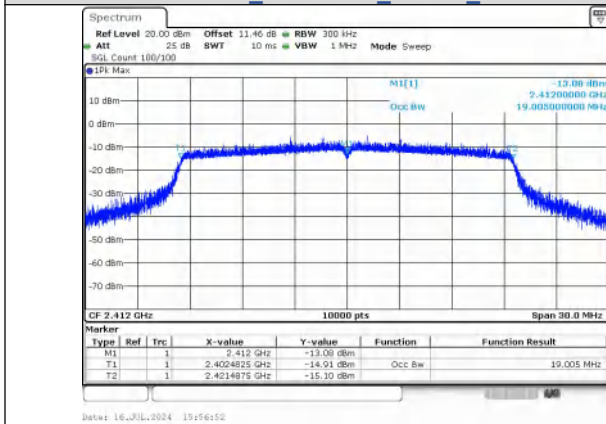




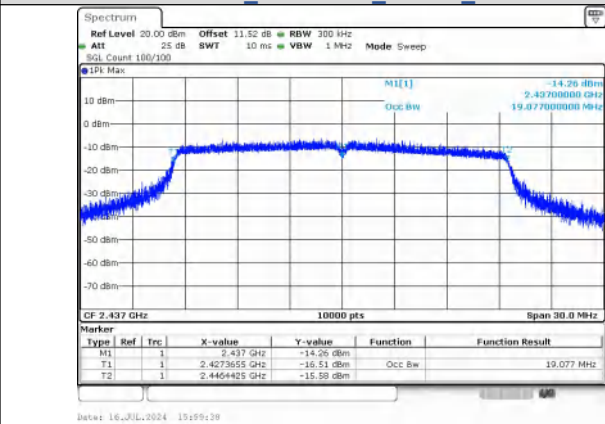
IEEE 802.11n_Channel 6_40MHz_Antenna 0



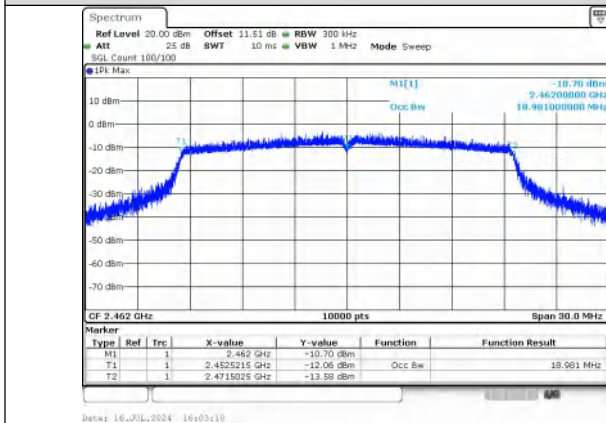
IEEE 802.11n_Channel 9_40MHz_Antenna 0



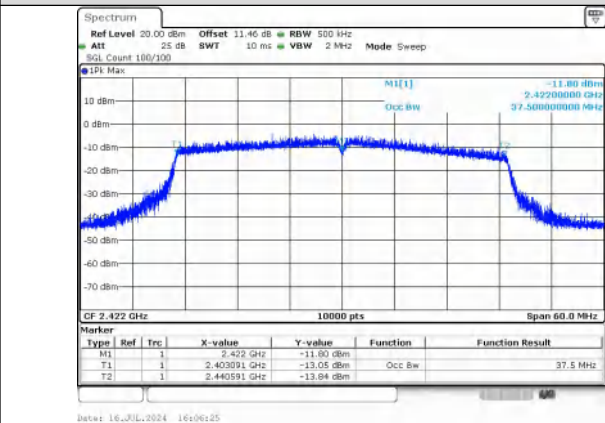
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



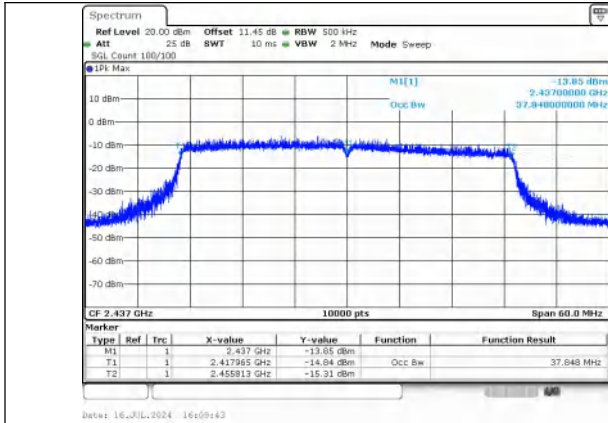
IEEE 802.11ax_Channel 9_20MHz_Antenna 0_RU&Index SU



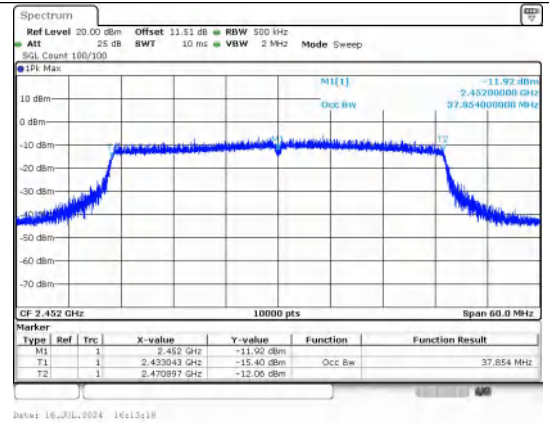
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index
SU



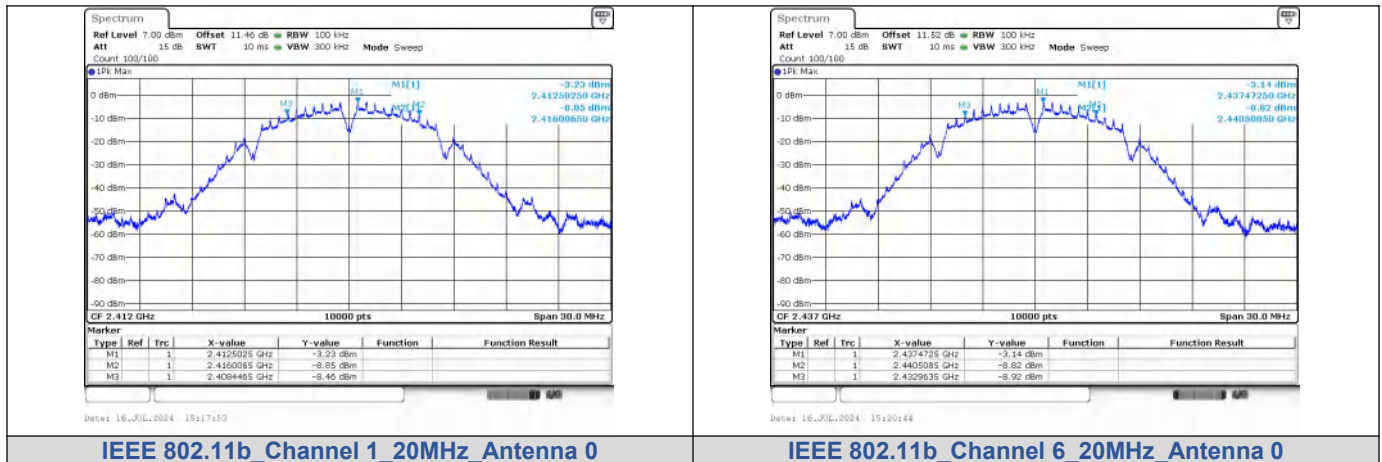
IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index
SU

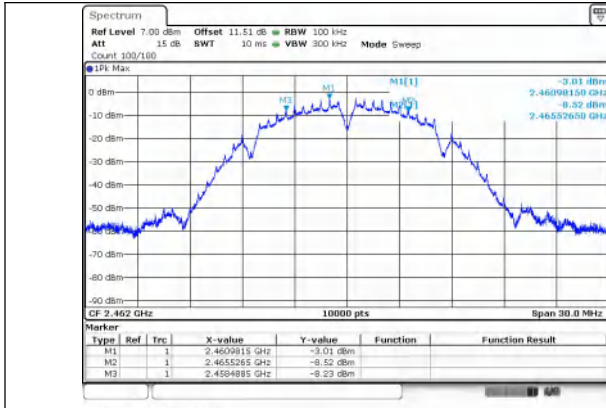
6dB Bandwidth

Test Result

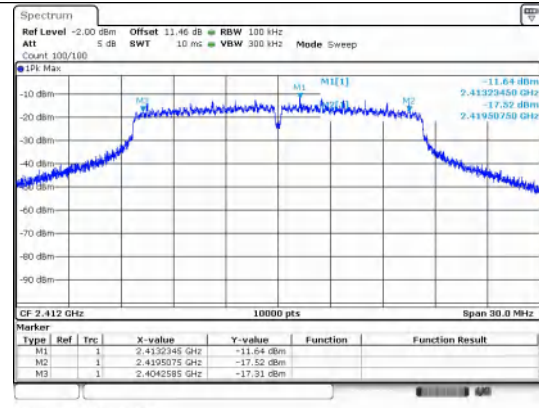
Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	N/A	0	2412	7.560	≥0.5	PASS
	6			2437	7.550		PASS
	11			2462	7.040		PASS
IEEE 802.11g	1			2412	15.25		PASS
	6			2437	15.66		PASS
	11			2462	15.14		PASS
IEEE 802.11n_20	1			2412	15.87		PASS
	6			2437	16.31		PASS
	11			2462	14.11		PASS
IEEE 802.11n_40	3			2422	30.00		PASS
	6			2437	35.63		PASS
	9			2452	35.42		PASS
IEEE 802.11ax_20	1	SU		2412	16.50		PASS
	6			2437	16.06		PASS
	11			2462	16.26		PASS
IEEE 802.11ax_40	3			2422	32.46		PASS
	6			2437	36.48		PASS
	9			2452	37.82		PASS

Test Graphs

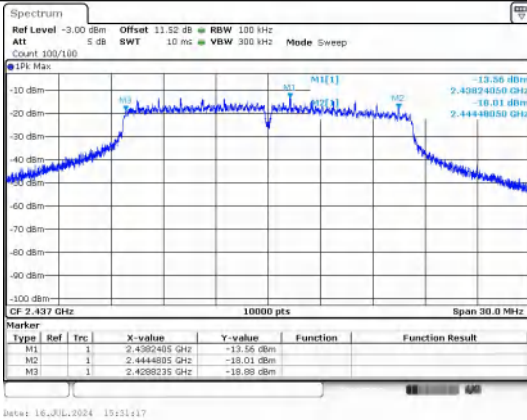




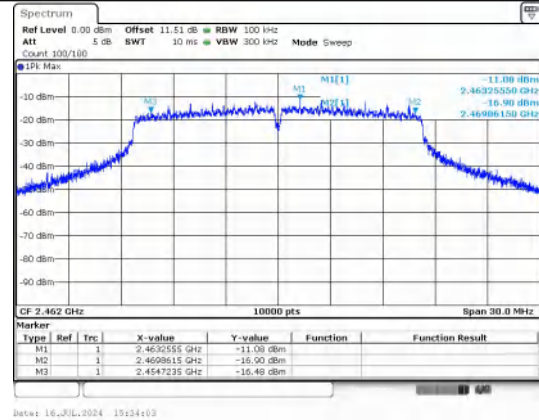
IEEE 802.11b Channel 11 20MHz Antenna 0



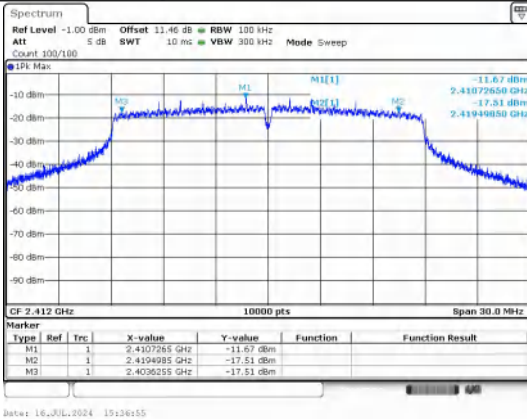
IEEE 802.11g Channel 1 20MHz Antenna 0



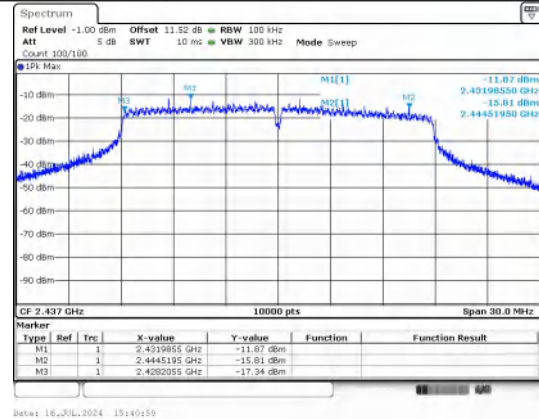
IEEE 802.11g Channel 6 20MHz Antenna 0



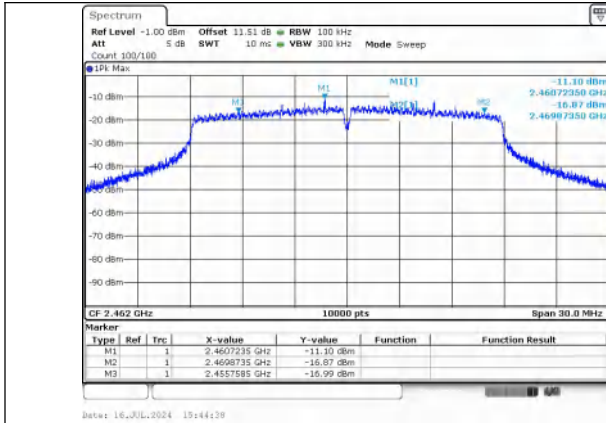
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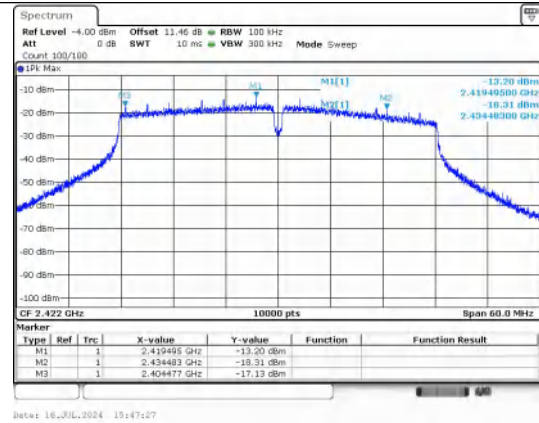
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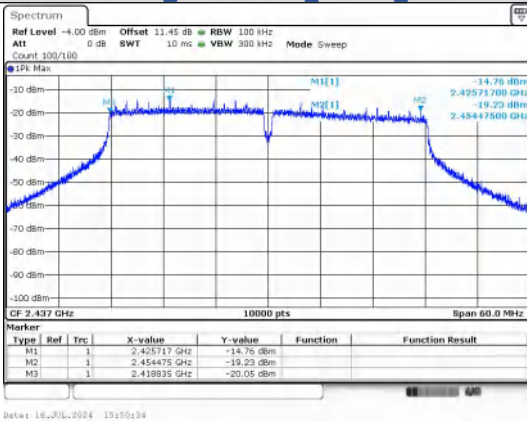
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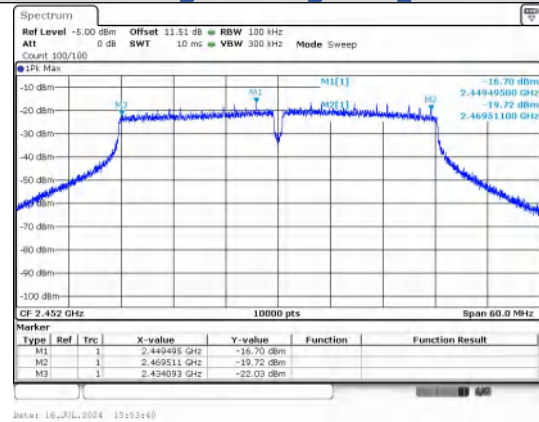
IEEE 802.11n_Channel 11_20MHz_Antenna 0



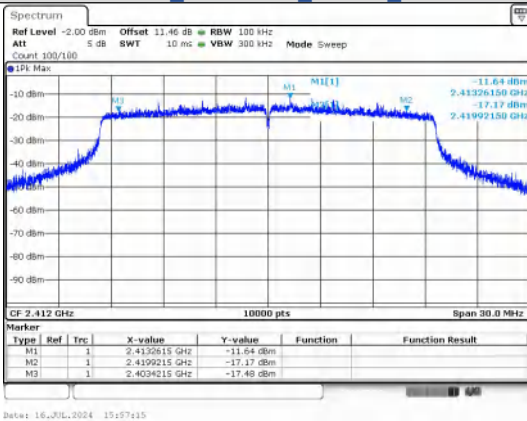
IEEE 802.11n_Channel 3_40MHz_Antenna 0



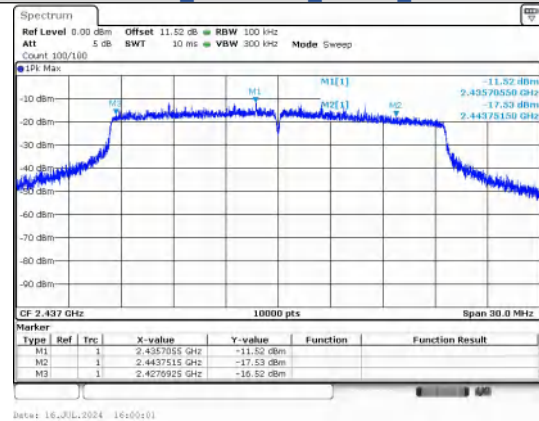
IEEE 802.11n_Channel 6_40MHz_Antenna 0



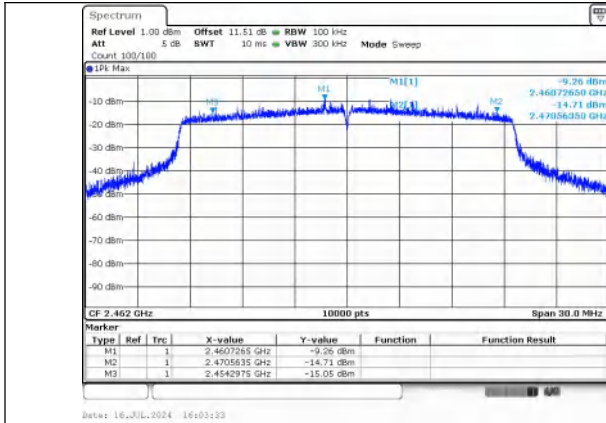
IEEE 802.11n_Channel 9_40MHz_Antenna 0



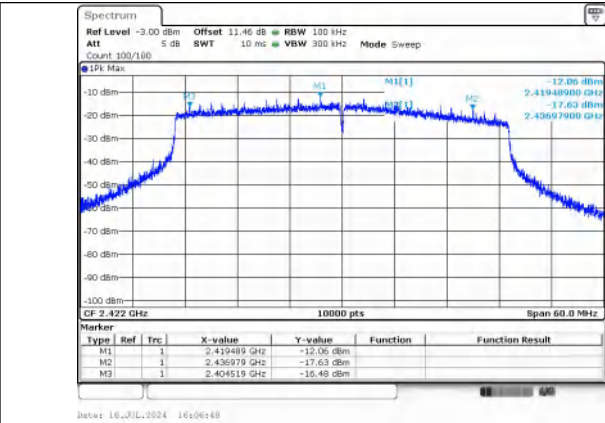
IEEE 802.11ax_Channel 1_20MHz_Antenna 0_RU&Index SU



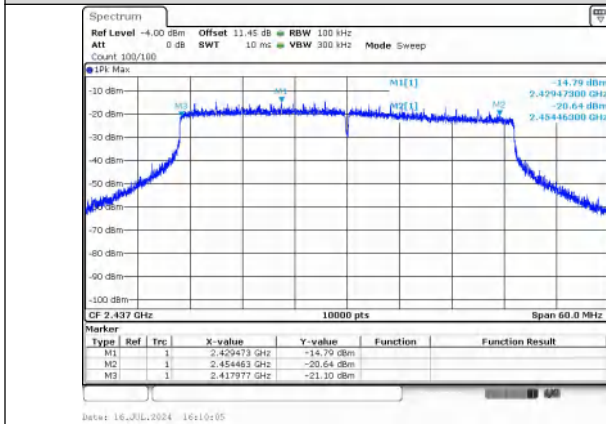
IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU



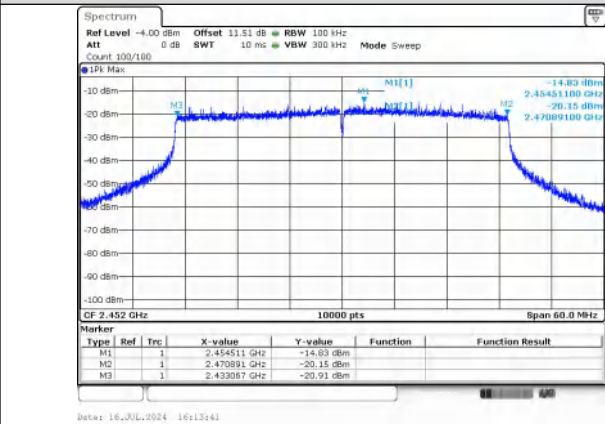
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index SU



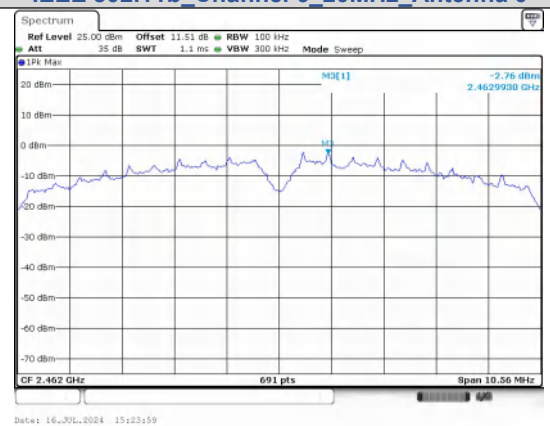
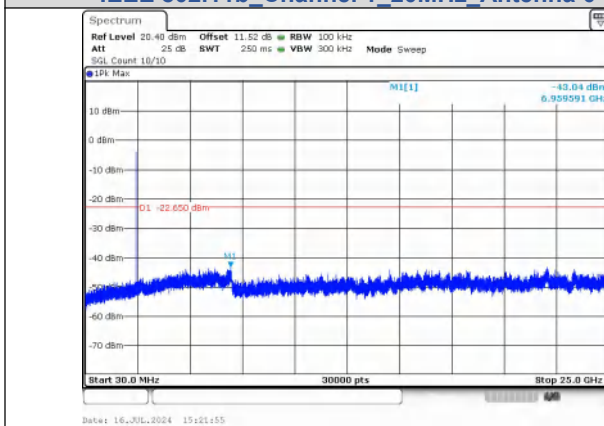
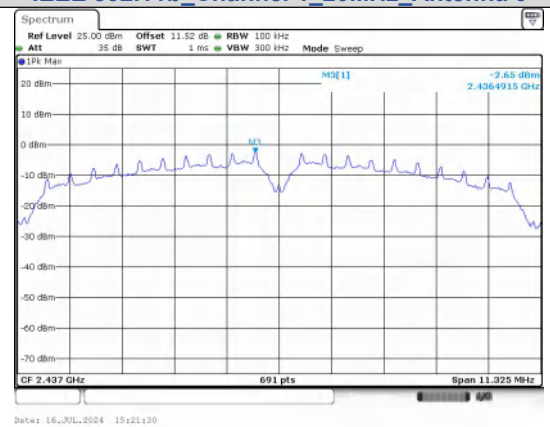
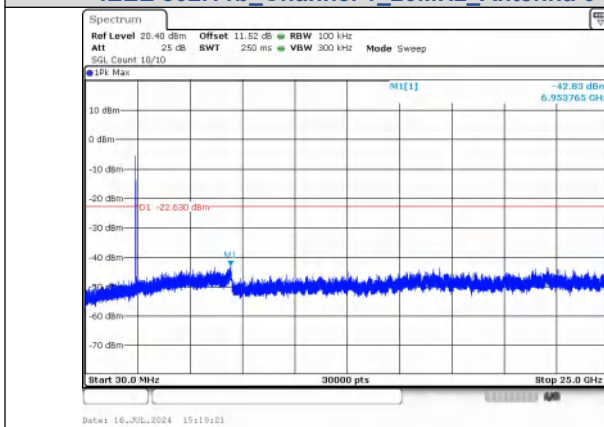
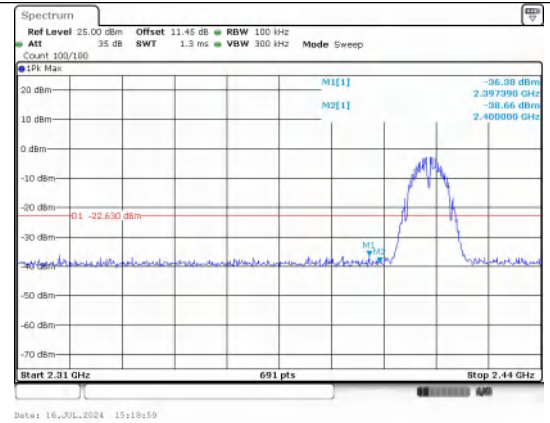
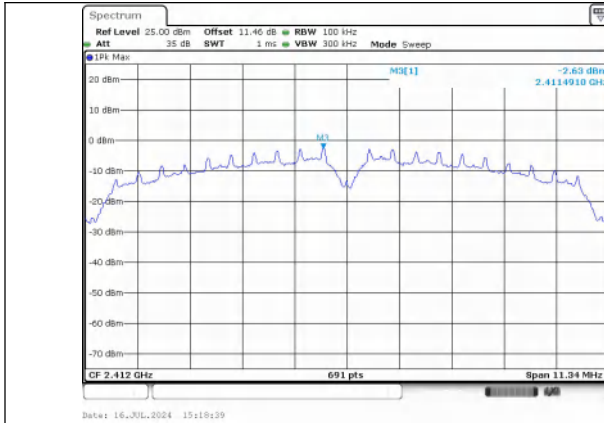
IEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index SU

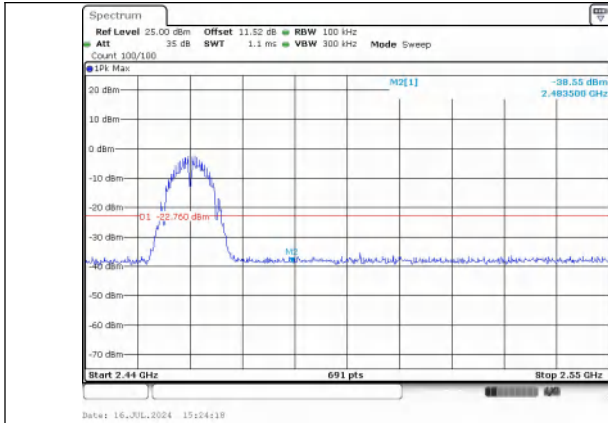
Conducted Out Of Band Emission

Test Result

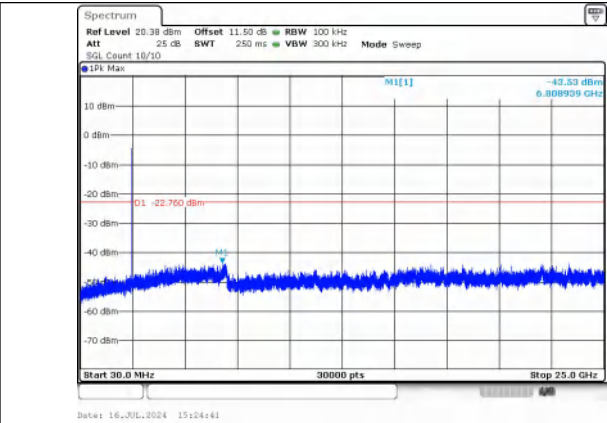
Mode	Channel	RU & Index	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	N/A	0	2397.39	-36.379	-22.63	-13.749	PASS
				2400.00	-38.664	-22.63	-16.034	PASS
	6			6953.80	-42.830	-22.63	-20.200	PASS
				6959.59	-43.036	-22.65	-20.386	PASS
	11			2483.50	-38.550	-22.76	-15.790	PASS
				6808.94	-43.531	-22.76	-20.771	PASS
IEEE 802.11g	1			2364.65	-36.877	-30.99	-5.887	PASS
				2400.00	-37.291	-30.99	-6.301	PASS
	6			6950.40	-42.981	-30.99	-11.991	PASS
				6945.44	-43.413	-32.72	-10.693	PASS
	11			2483.50	-38.247	-30.45	-7.797	PASS
				6979.57	-43.297	-30.45	-12.847	PASS
IEEE 802.11n_20	1			2400.00	-36.539	-31.09	-5.449	PASS
				6857.21	-43.182	-31.09	-12.092	PASS
	6			6187.19	-42.565	-32.23	-10.335	PASS
				2483.50	-37.527	-30.86	-6.667	PASS
	11			6932.96	-42.845	-30.86	-11.985	PASS
				2393.81	-36.860	-34.25	-2.610	PASS
IEEE 802.11n_40	3			2400.00	-37.990	-34.25	-3.740	PASS
				6206.30	-43.357	-34.25	-9.107	PASS
	6			6992.88	-43.019	-33.52	-9.499	PASS
				2483.50	-37.749	-34.09	-3.659	PASS
	9			6977.90	-42.595	-34.09	-8.505	PASS
				2368.79	-35.887	-33.06	-2.827	PASS
IEEE 802.11ax_20	1	2400.00	-37.205	-33.06	-4.145	PASS		
		6235.50	-43.163	-33.06	-10.103	PASS		
	6	6284.57	-42.999	-32.96	-10.039	PASS		
		2483.50	-37.618	-28.62	-8.998	PASS		
	11	6170.54	-42.654	-28.62	-14.034	PASS		
		2348.47	-36.562	-31.72	-4.842	PASS		
IEEE 802.11ax_40	3	2400.00	-38.711	-31.72	-6.991	PASS		
		6930.50	-43.219	-31.72	-11.499	PASS		
	6	6911.32	-43.434	-33.81	-9.624	PASS		
		2483.50	-38.009	-33.46	-4.549	PASS		
	9	22059.0	-42.167	-33.46	-8.707	PASS		

Test Graphs

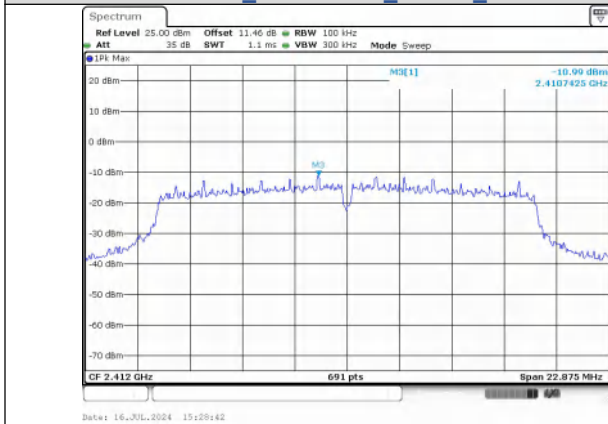




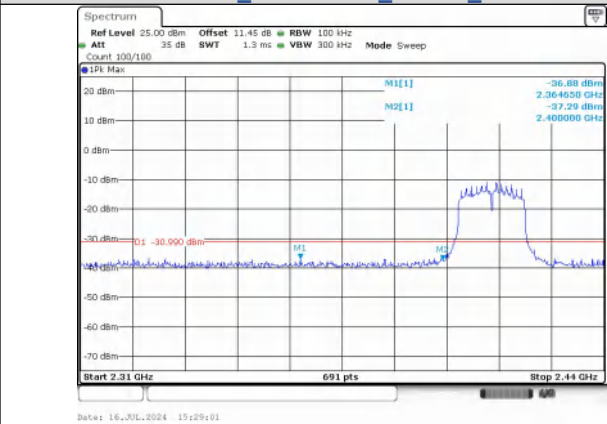
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



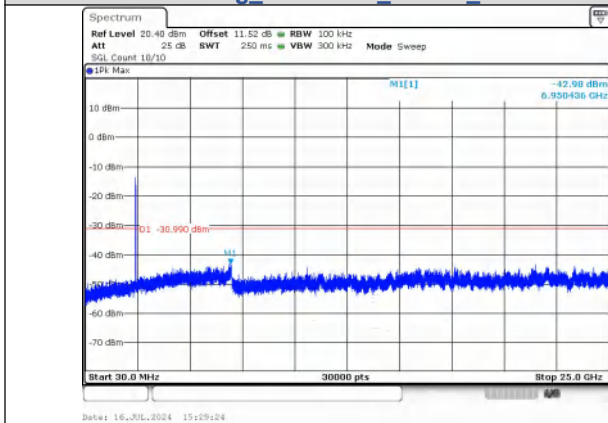
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



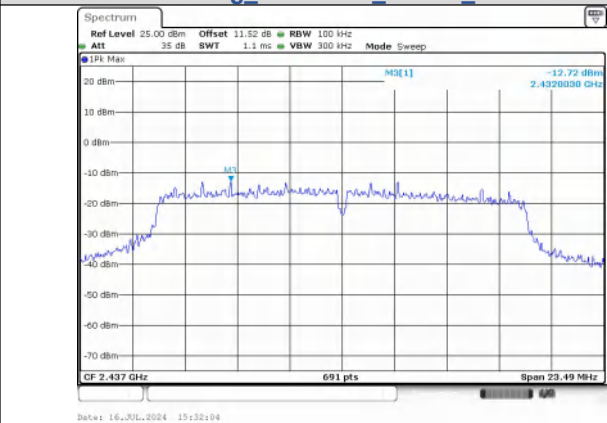
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



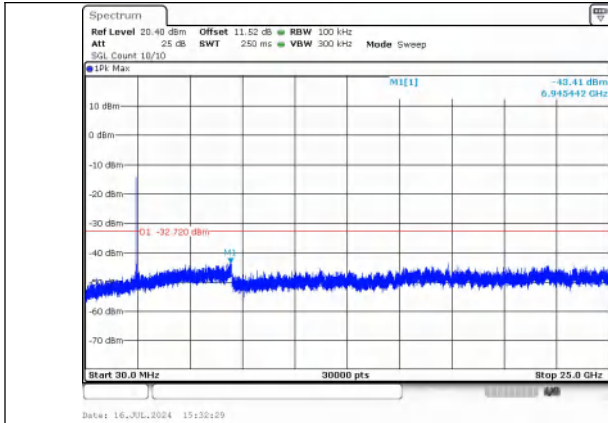
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



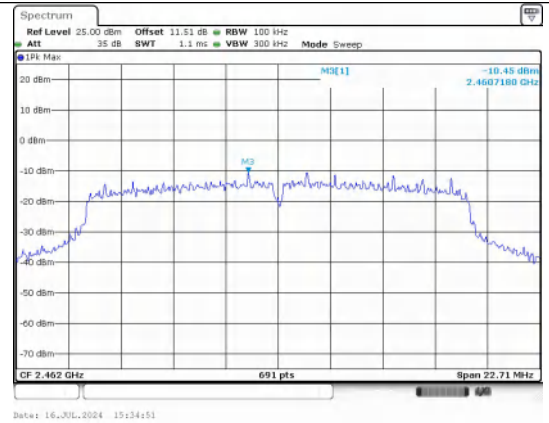
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IEEE 802.11g_Channel 1_20MHz_Antenna 0



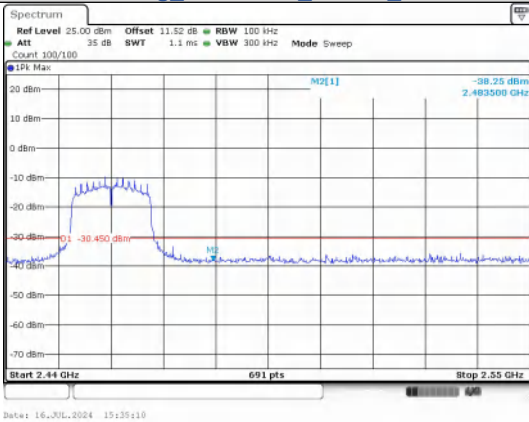
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



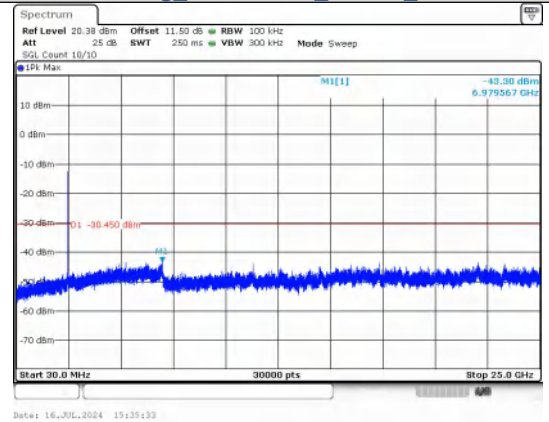
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IEEE 802.11g_Channel 6_20MHz_Antenna 0



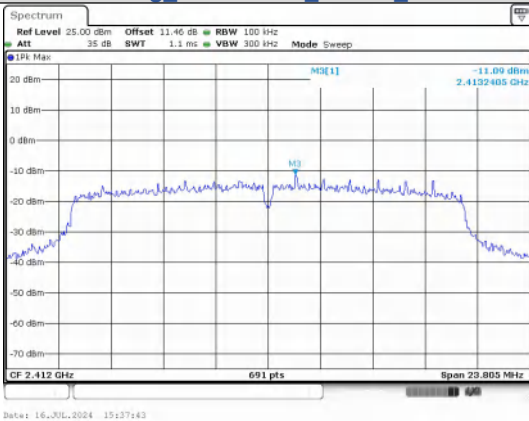
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IEEE 802.11g_Channel 11_20MHz_Antenna 0



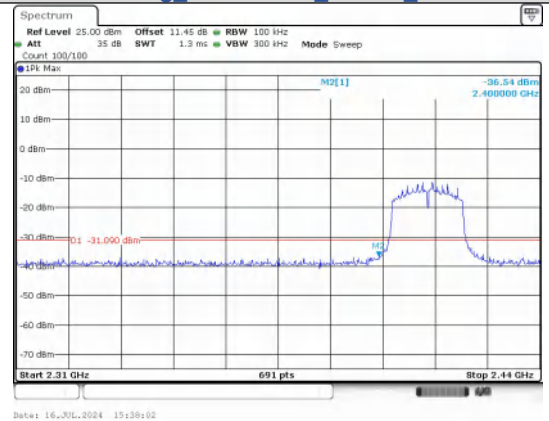
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



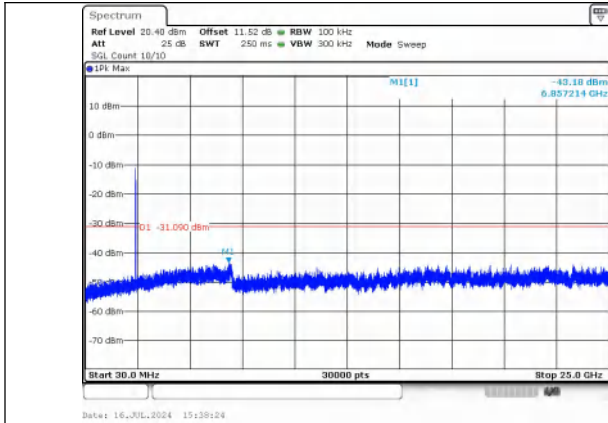
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IEEE 802.11g_Channel 11_20MHz_Antenna 0



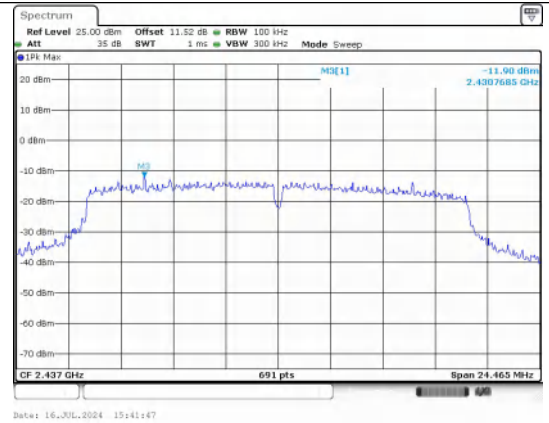
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IEEE 802.11n_Channel 1_20MHz_Antenna 0



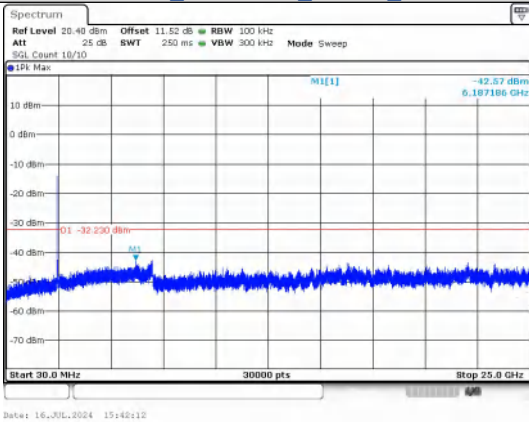
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



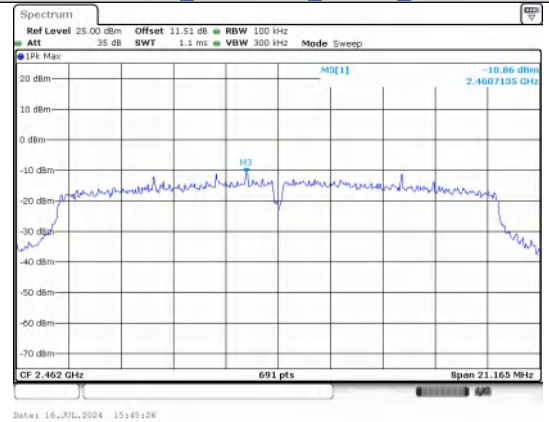
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IEEE 802.11n Channel 1_20MHz_Antenna 0



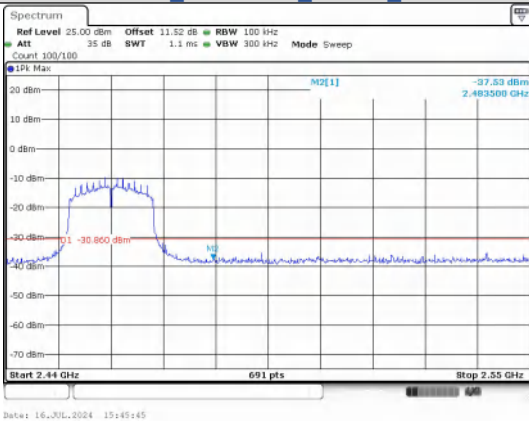
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IEEE 802.11n Channel 6_20MHz_Antenna 0



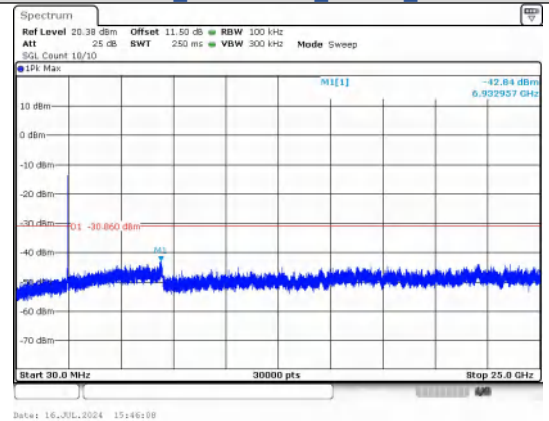
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IEEE 802.11n Channel 6_20MHz_Antenna 0



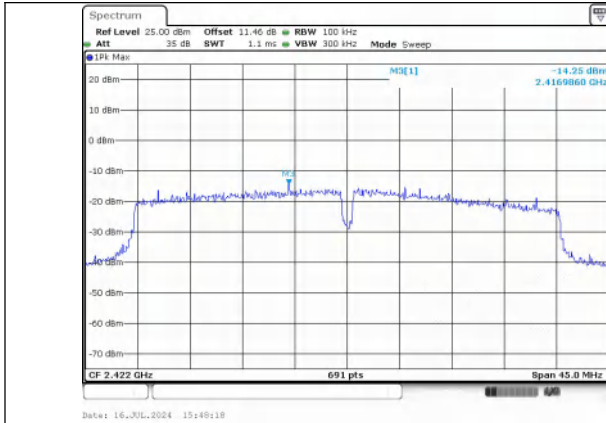
In-Band Reference Level
IEEE 802.11n Channel 11_20MHz_Antenna 0



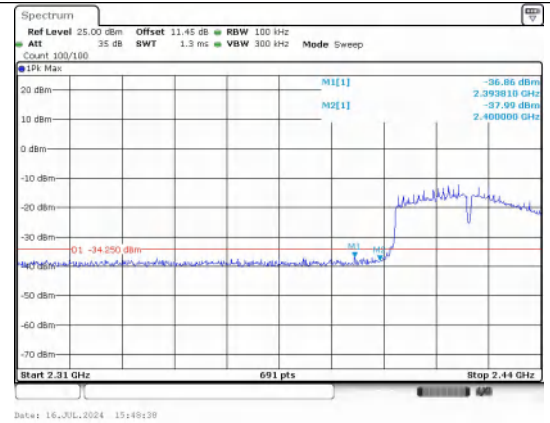
Out Of Band Emission
IEEE 802.11n Channel 11_20MHz_Antenna 0



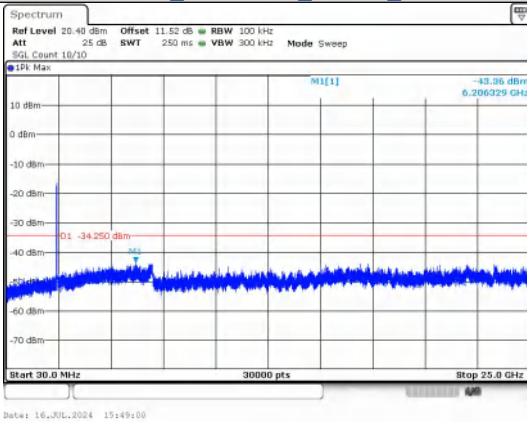
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IEEE 802.11n Channel 11_20MHz_Antenna 0



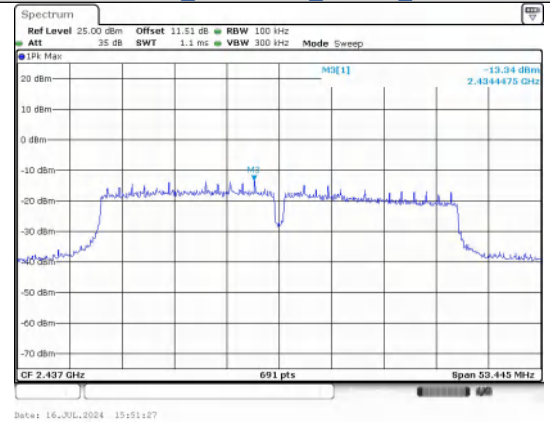
In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



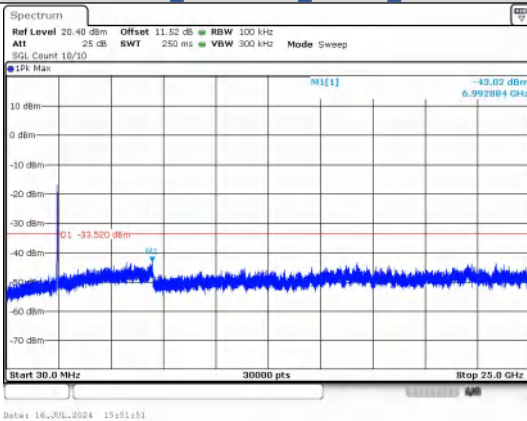
Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



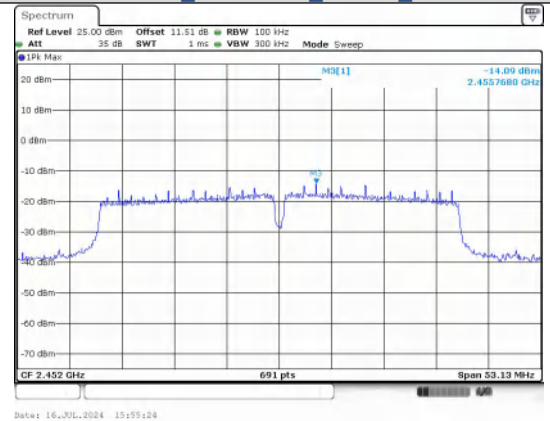
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IEEE 802.11n_Channel 3_40MHz_Antenna 0



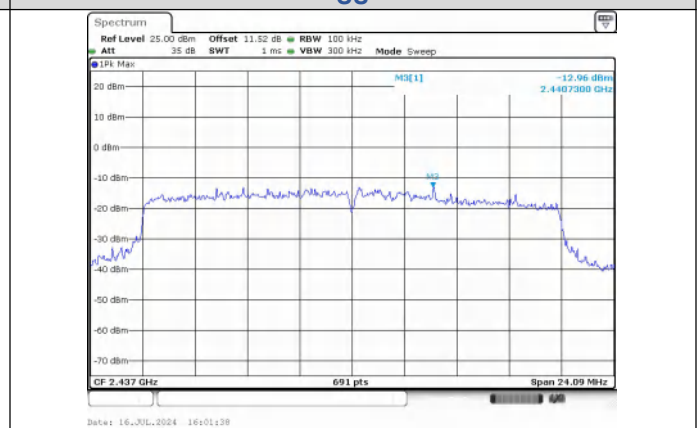
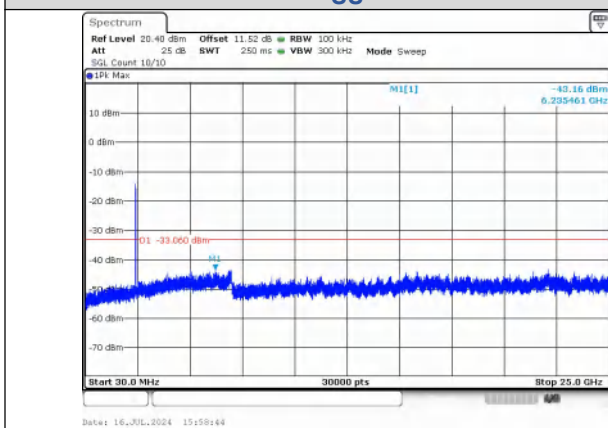
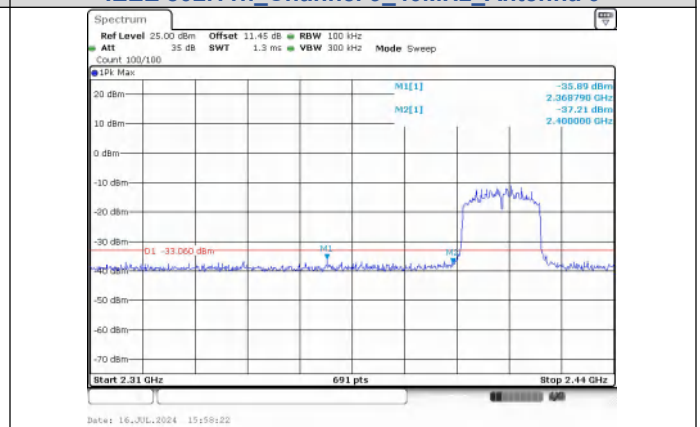
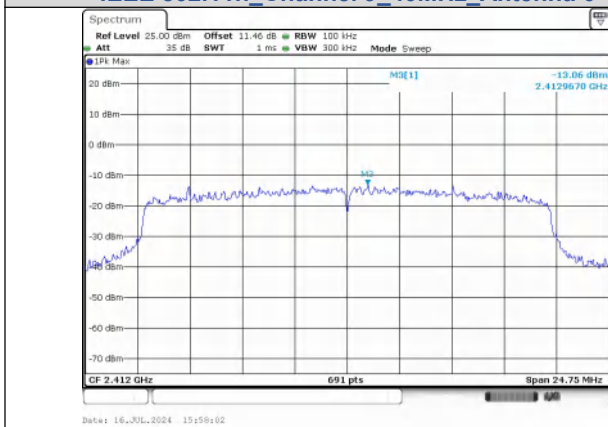
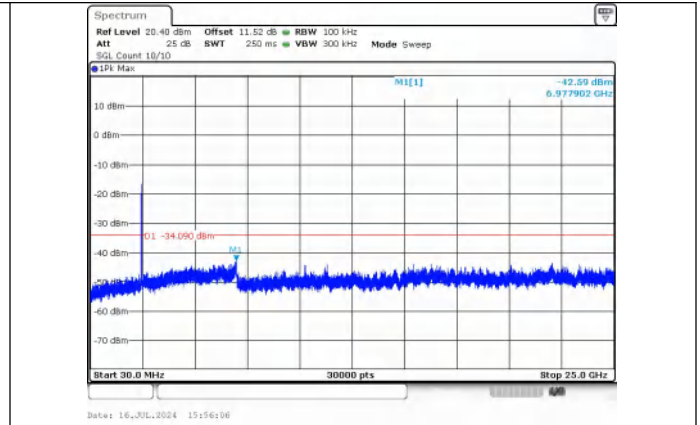
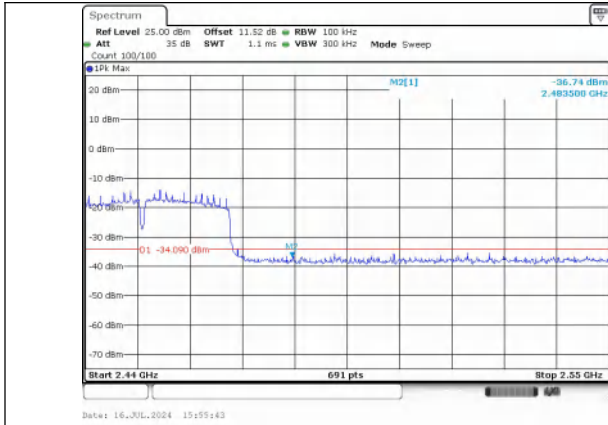
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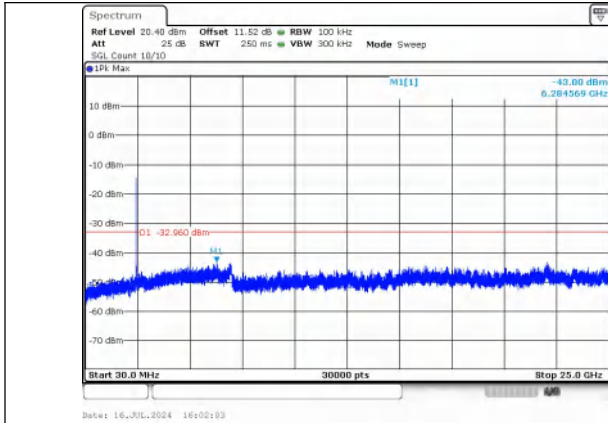


30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_40MHz_Antenna 0

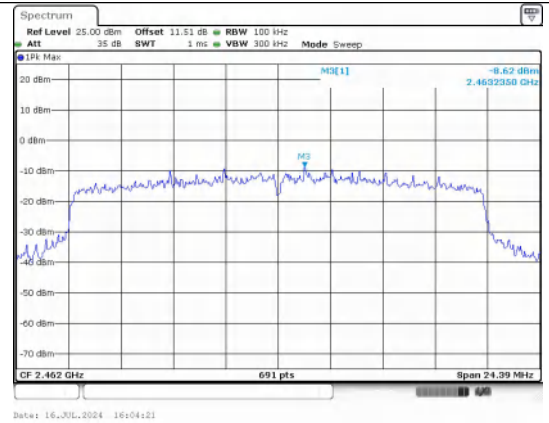


In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0

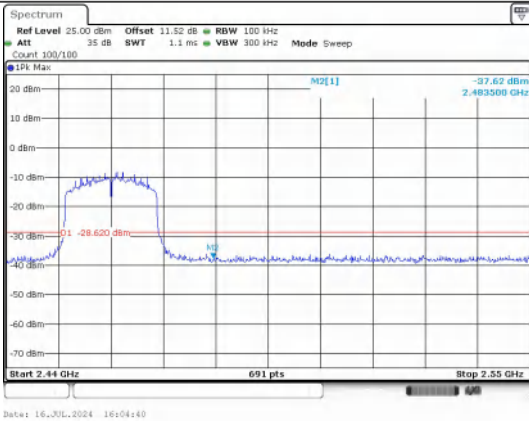




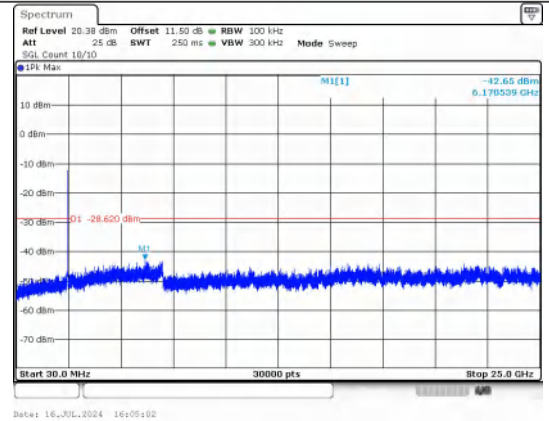
30.0 MHz - 25000.0 MHz
IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index SU



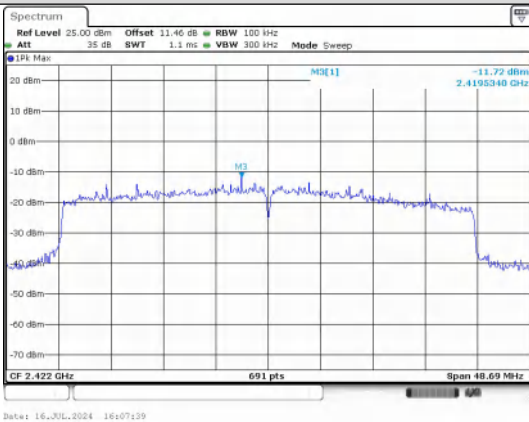
In-Band Reference Level
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



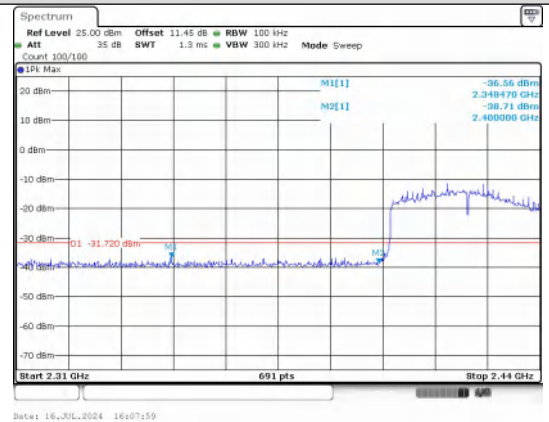
Out Of Band Emission
IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



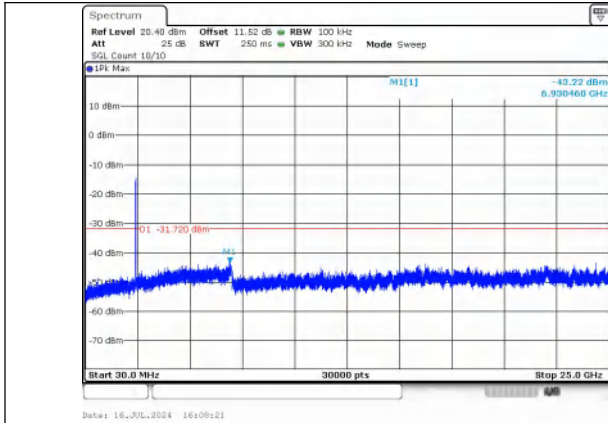
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IEEE 802.11ax_Channel 11_20MHz_Antenna 0_RU&Index SU



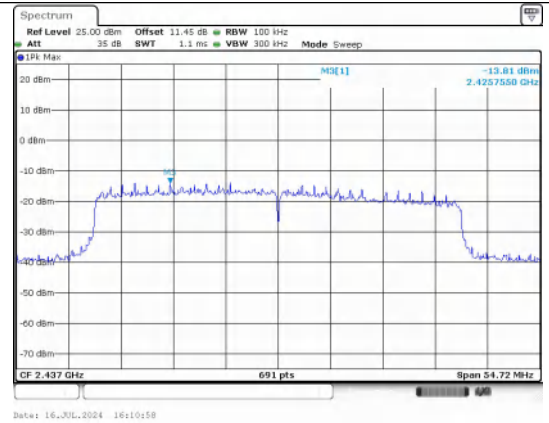
In-Band Reference Level
IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



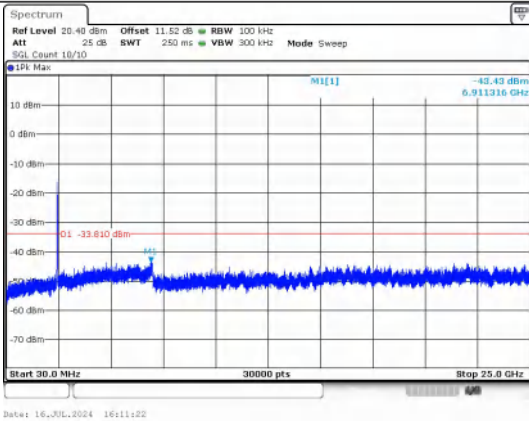
Out Of Band Emission
IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index SU



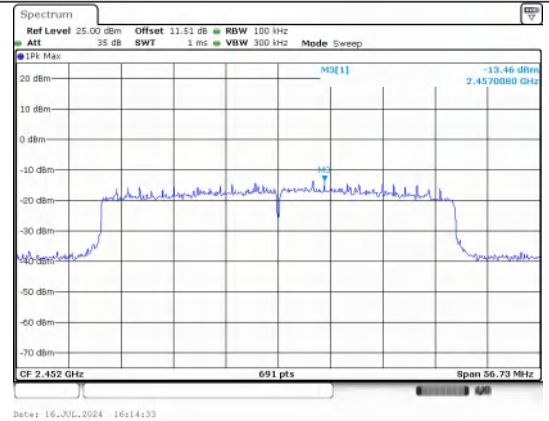
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IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index
SU



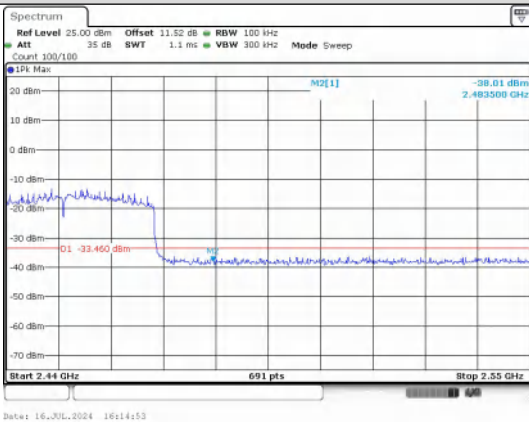
In-Band Reference Level
IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index
SU



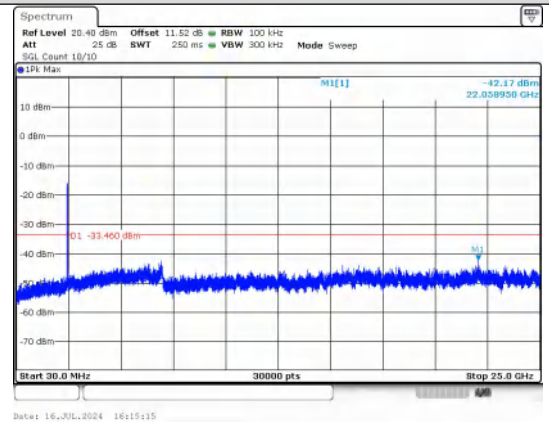
30.0 MHz - 25000.0 MHz
IEEE 802.11ax_Channel 6_40MHz_Antenna 0_RU&Index
SU



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