

APPENDIX I. Conducted Peak Output Power**Test Result**

Conducted peak output power

Mode	Channel	Ant. 0 (dBm)	Ant. 1 (dBm)	Ant. 2 (dBm)	Ant. 3 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	19.25	N/A	N/A	N/A	N/A	30	PASS
	6	18.69	N/A	N/A	N/A	N/A	30	PASS
	11	18.10	N/A	N/A	N/A	N/A	30	PASS
IEEE 802.11g	1	16.57	N/A	N/A	N/A	N/A	30	PASS
	6	16.19	N/A	N/A	N/A	N/A	30	PASS
	11	15.93	N/A	N/A	N/A	N/A	30	PASS
IEEE 802.11n_20	1	15.30	N/A	N/A	N/A	N/A	30	PASS
	6	14.88	N/A	N/A	N/A	N/A	30	PASS
	11	14.60	N/A	N/A	N/A	N/A	30	PASS
IEEE 802.11n_40	3	14.36	N/A	N/A	N/A	N/A	30	PASS
	6	13.78	N/A	N/A	N/A	N/A	30	PASS
	9	13.86	N/A	N/A	N/A	N/A	30	PASS

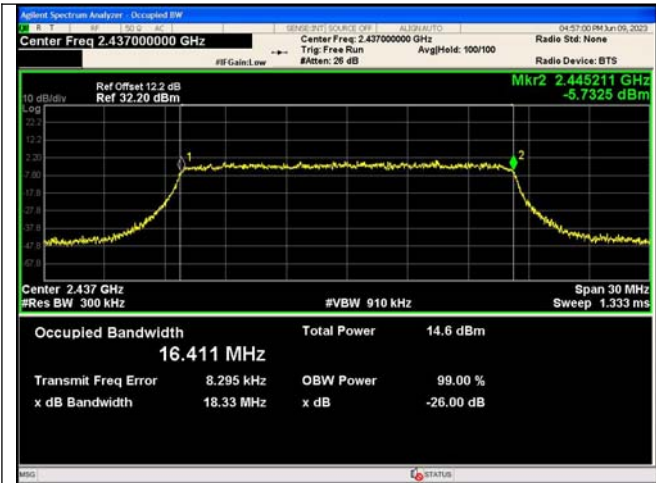
APPENDIX II.99% Bandwidth

Test Result

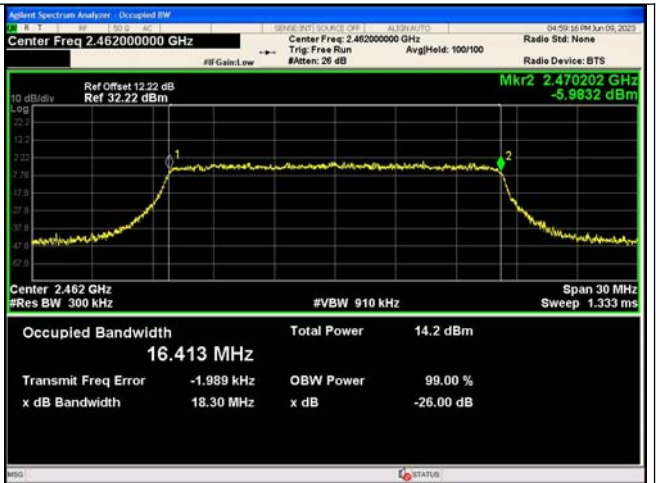
Mode	Channel	Ant.	99% BW (MHz)
IEEE 802.11b	1	0	12.987
	6		13.049
	11		13.072
IEEE 802.11g	1		16.419
	6		16.411
	11		16.413
IEEE 802.11n_20	1		17.194
	6		17.191
	11		17.212
IEEE 802.11n_40	3		34.106
	6		34.071
	9		34.117

Test Graphs

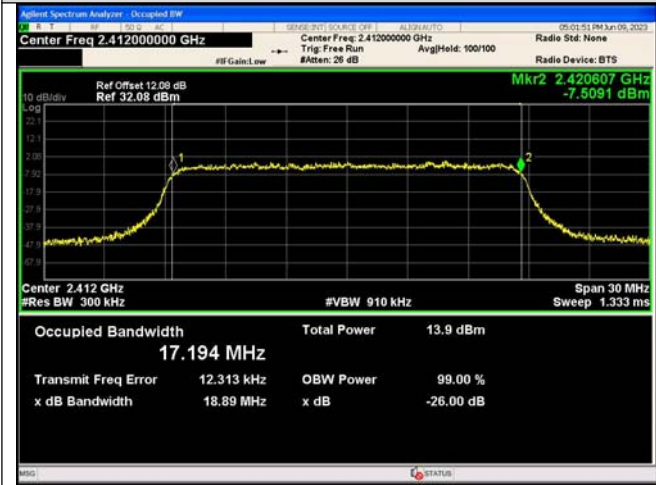




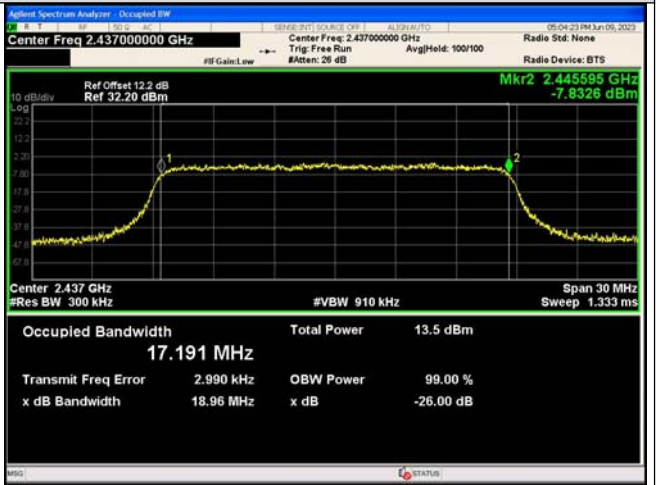
IEEE 802.11g_Channel 6_20MHz_Antenna 0



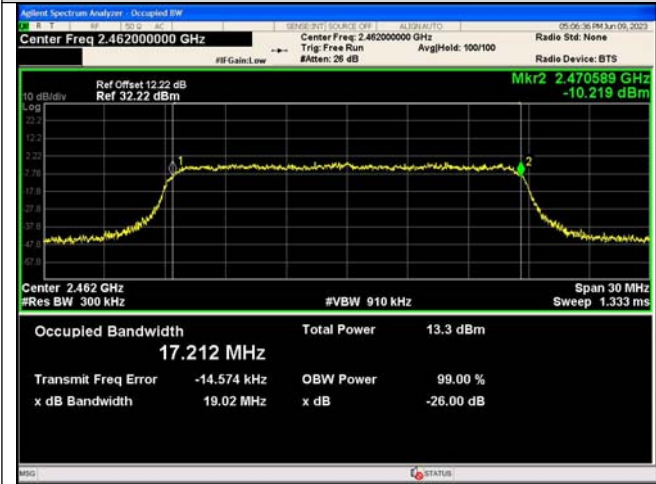
IEEE 802.11g_Channel 11_20MHz_Antenna 0



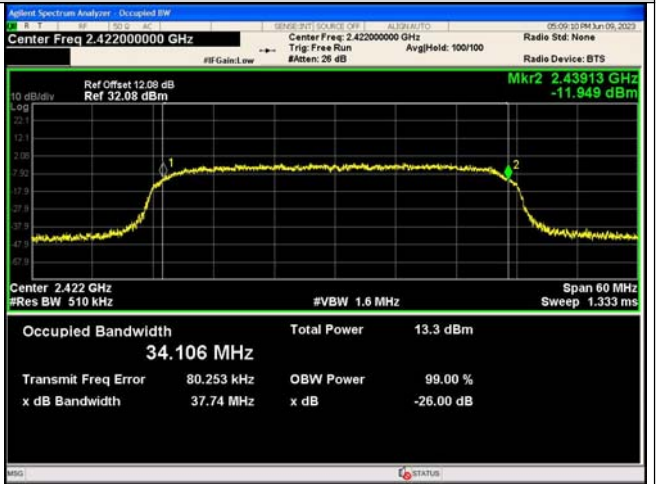
IEEE 802.11n_Channel 1_20MHz_Antenna 0



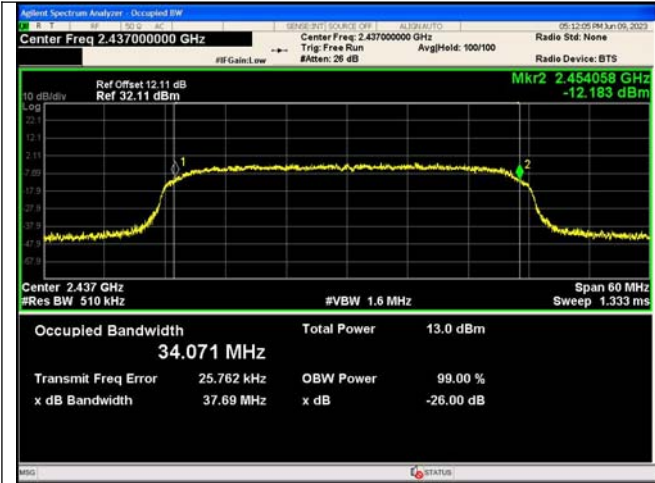
IEEE 802.11n_Channel 6_20MHz_Antenna 0



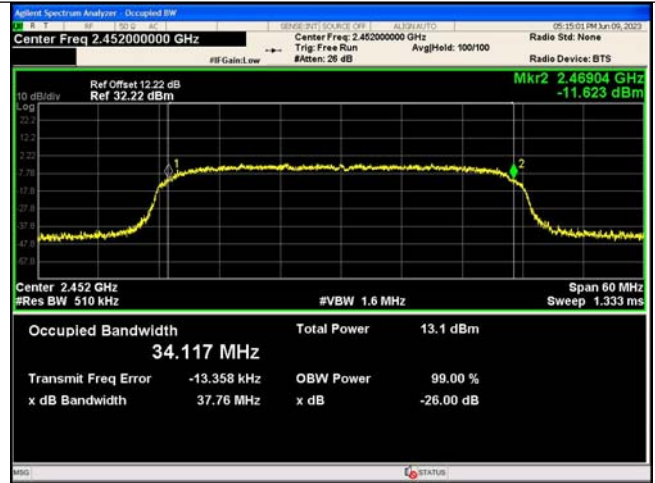
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



IEEE 802.11n_Channel 9_40MHz_Antenna 0

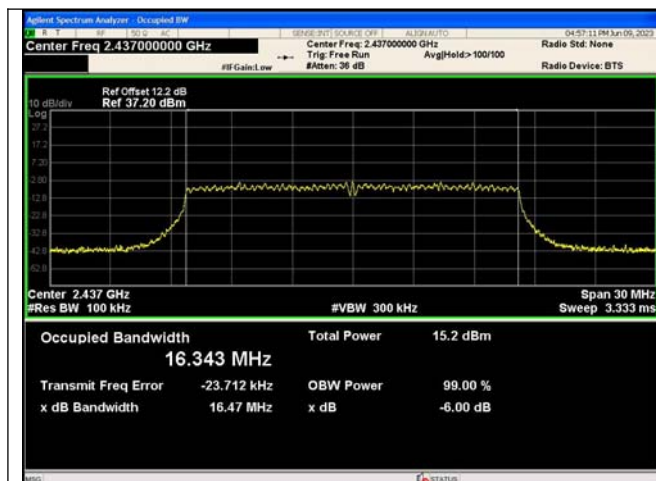
APPENDIX III.6dB Bandwidth

Test Result

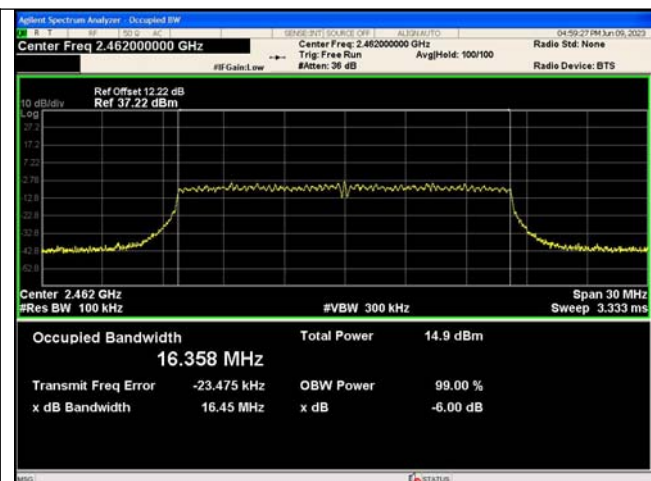
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	9.343	0.5	PASS
	6		2437	9.231		PASS
	11		2462	9.124		PASS
IEEE 802.11g	1		2412	16.48		PASS
	6		2437	16.47		PASS
	11		2462	16.45		PASS
IEEE 802.11n_20	1		2412	16.95		PASS
	6		2437	16.88		PASS
	11		2462	16.91		PASS
IEEE 802.11n_40	3		2422	30.09		PASS
	6		2437	27.30		PASS
	9		2452	29.19		PASS

Test Graphs

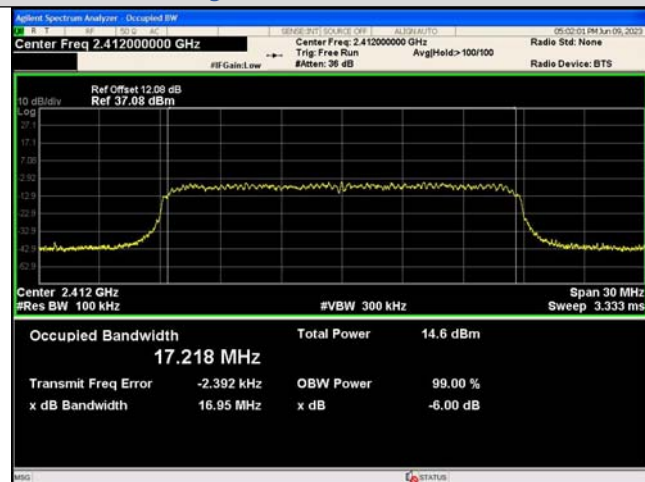




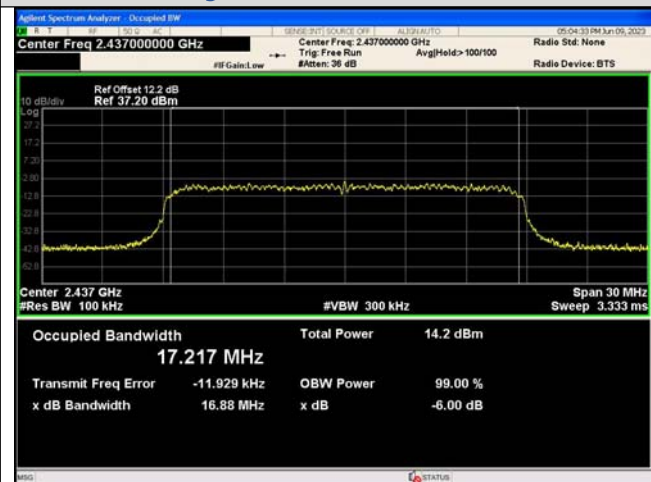
IEEE 802.11g_Channel 6_20MHz_Antenna 0



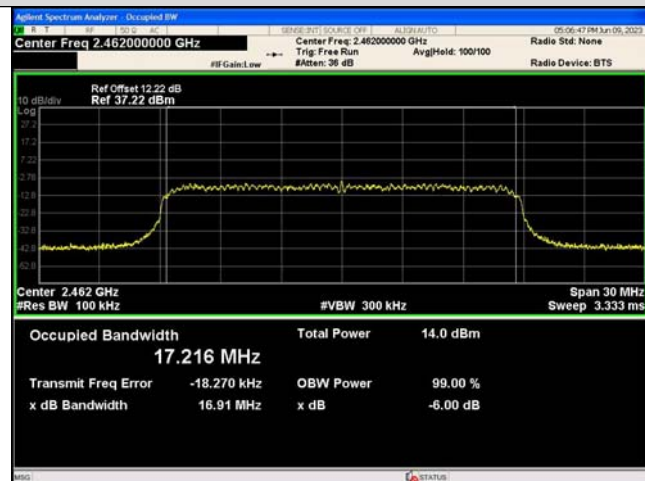
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IEEE 802.11n_Channel 1_20MHz_Antenna 0



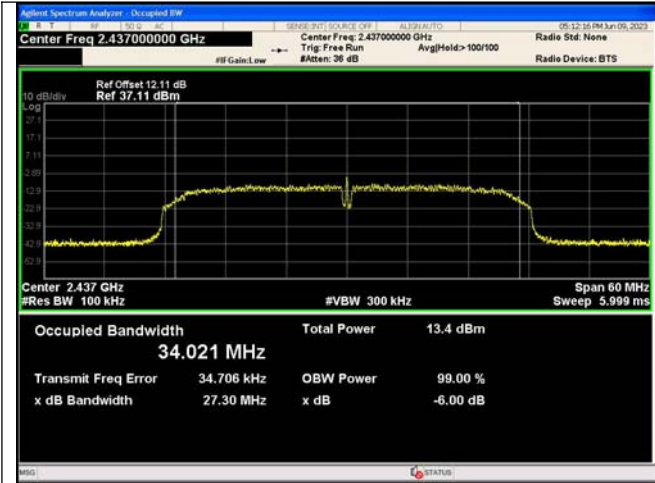
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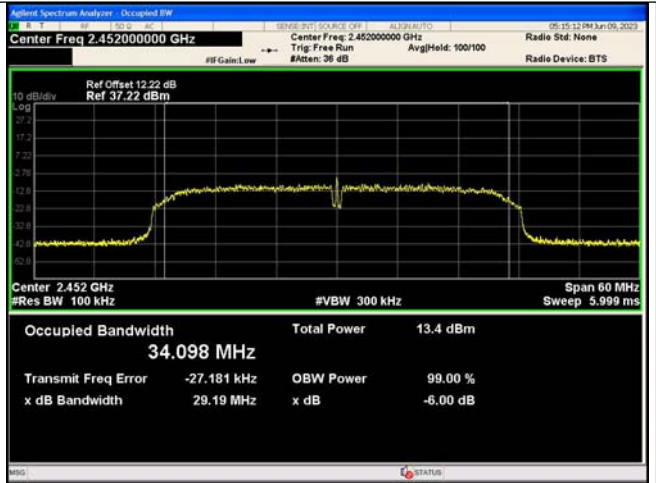
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0



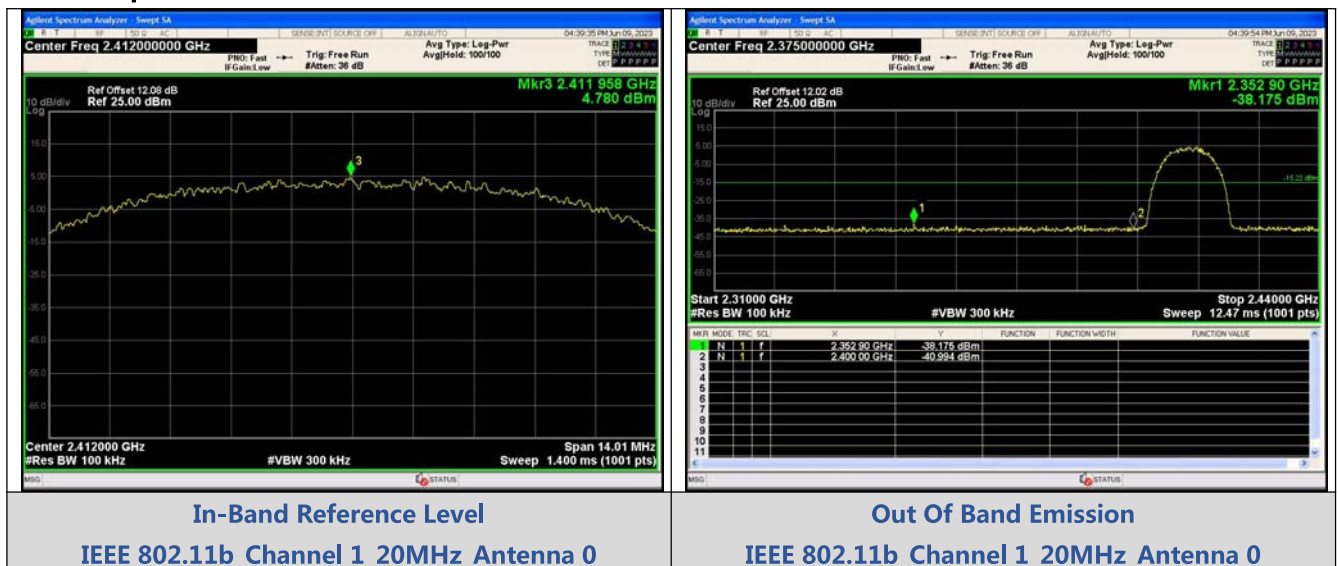
IEEE 802.11n_Channel 9_40MHz_Antenna 0

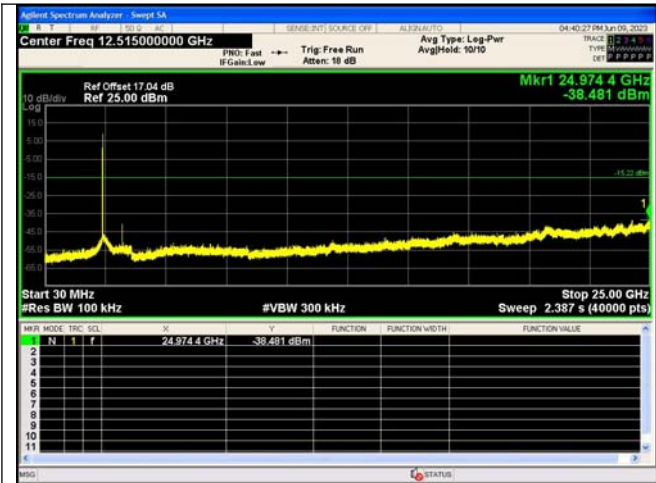
APPENDIX IV. Conducted Out Of Band Emission

Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	
IEEE 802.11b	1	0	2400.00	-40.994	-15.22	-25.774	PASS	
			2352.90	-38.175	-15.22	-22.955	PASS	
			24974.4	-38.481	-15.22	-23.261	PASS	
	6		24939.4	-38.508	-15.48	-23.028	PASS	
			11	2483.50	-40.919	-15.78	-25	PASS
				24946.3	-37.579	-15.78	-21.799	PASS
IEEE 802.11g	1		2400.00	-39.743	-23.58	-16.163	PASS	
			2343.41	-38.941	-23.58	-15.361	PASS	
			24970.7	-38.244	-23.58	-14.664	PASS	
	6		24865.2	-38.446	-23.68	-14.766	PASS	
			11	2483.50	-39.798	-23.36	-16	PASS
				24863.3	-38.110	-23.36	-14.750	PASS
IEEE 802.11n_20	1		2400.00	-39.249	-24.82	-14.429	PASS	
			2371.10	-39.152	-24.82	-14.332	PASS	
			3216.30	-38.021	-24.82	-13.201	PASS	
	6		3249.34	-38.399	-24.38	-14.019	PASS	
			11	2483.50	-40.960	-24.54	-16	PASS
				24929.5	-38.335	-24.54	-13.795	PASS
IEEE 802.11n_40	3		2400.00	-40.265	-25.62	-14.645	PASS	
			2392.29	-38.658	-25.62	-13.038	PASS	
			24944.4	-37.807	-25.62	-12.187	PASS	
	6		24862.7	-37.710	-25.31	-12.400	PASS	
			9	2483.50	-40.878	-24.91	-16	PASS
				24978.8	-38.538	-24.91	-13.628	PASS

Test Graphs





Spurious Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



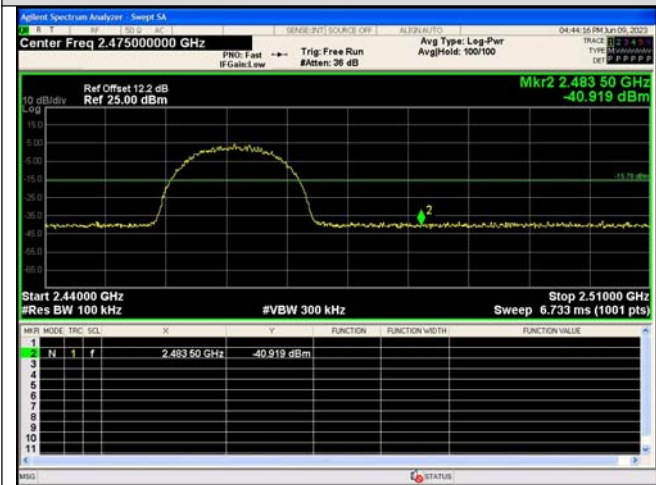
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



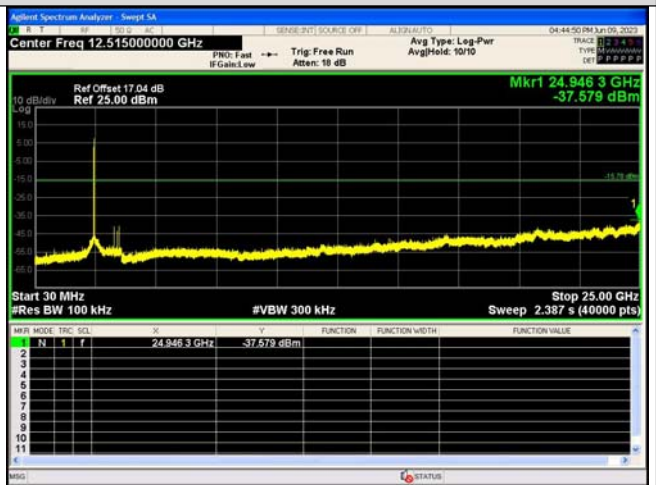
Spurious Emissions
IEEE 802.11b_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



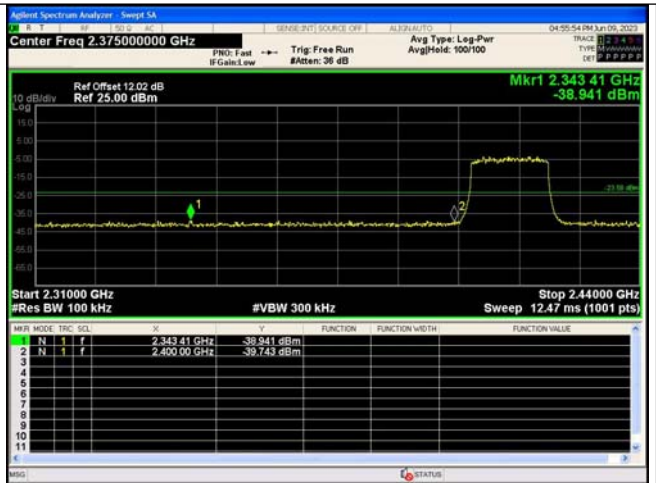
Out Of Band Emission
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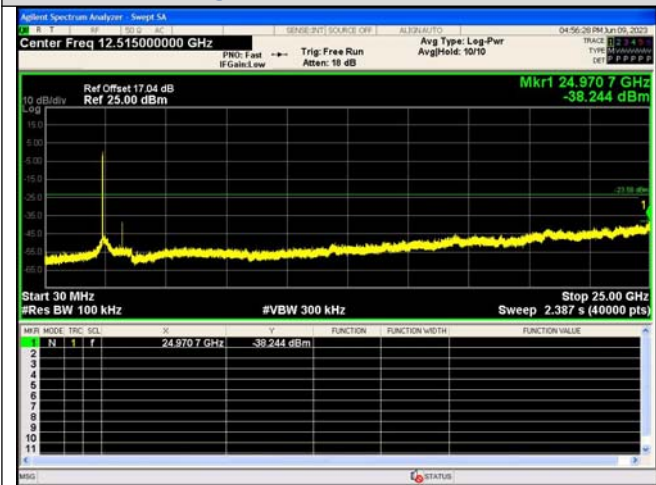
Spurious Emission
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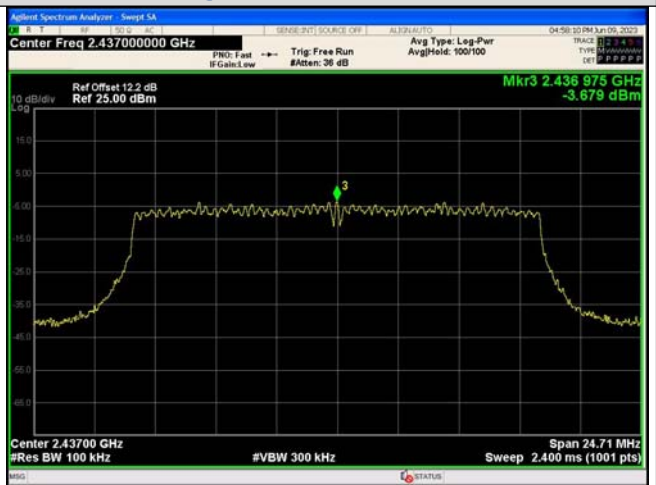
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



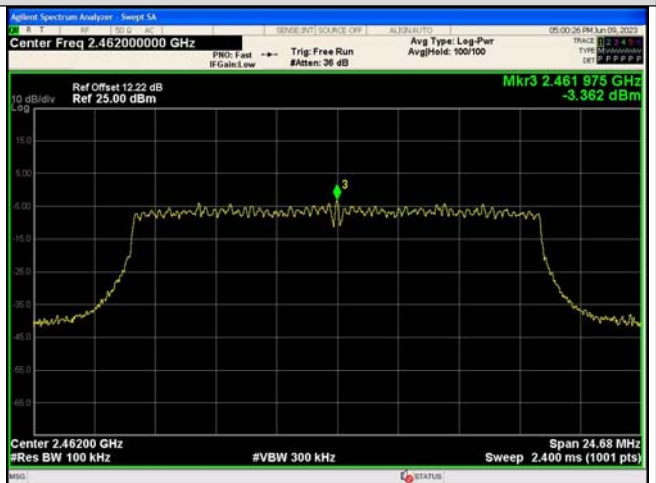
Spurious Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



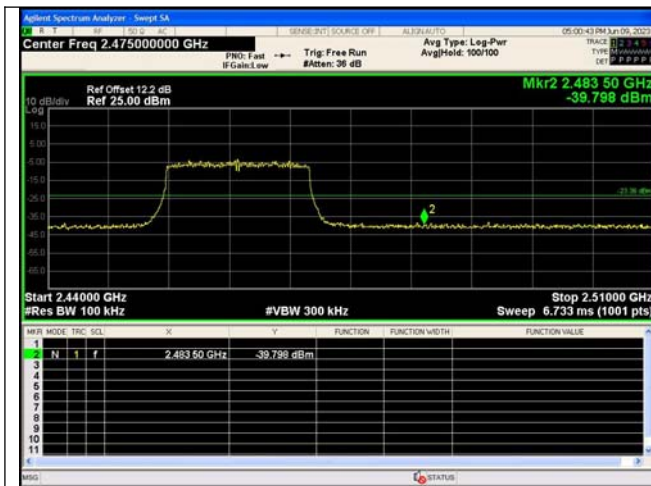
In-Band Reference Level
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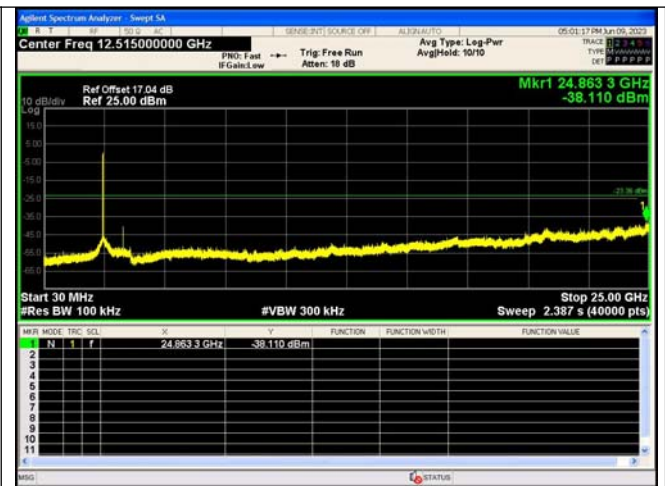
Spurious Emissions
IEEE 802.11g_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



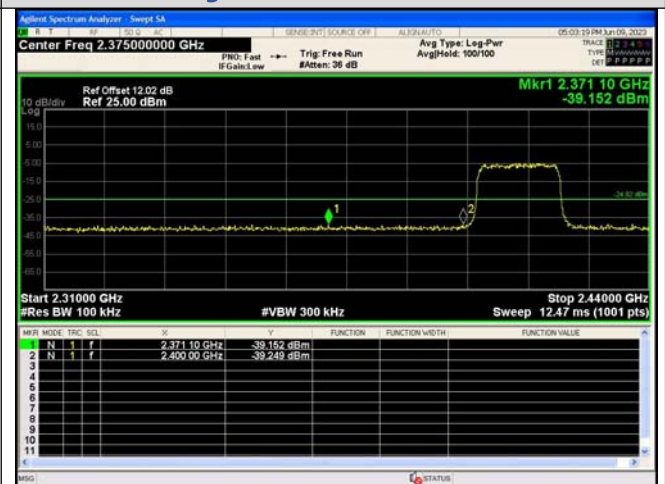
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



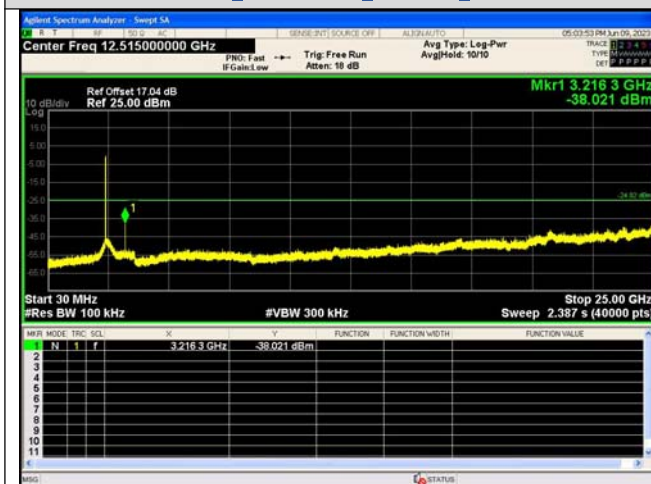
Spurious Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



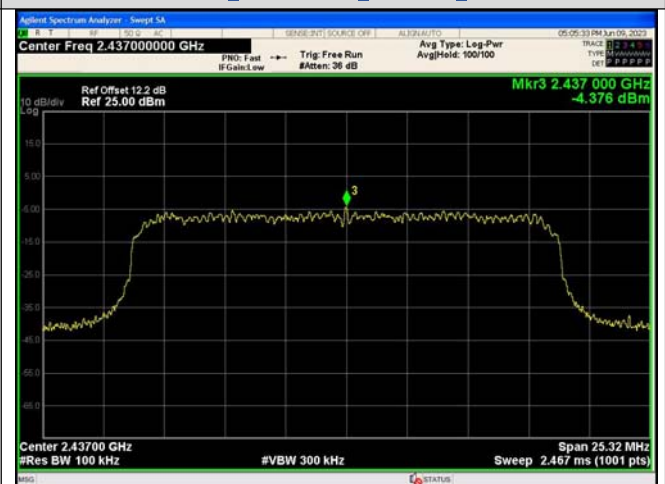
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



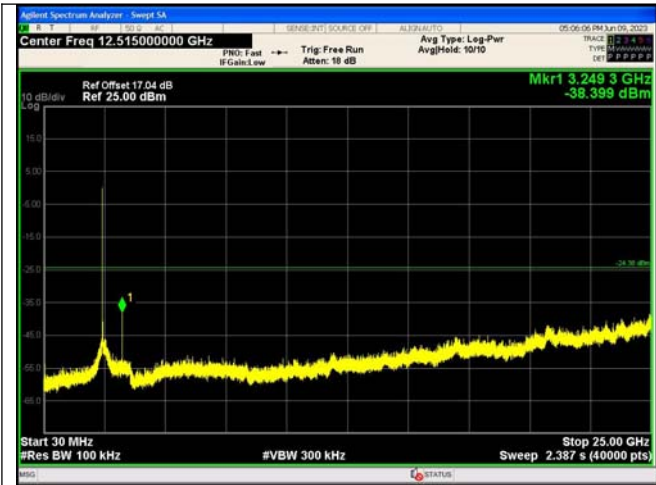
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



Spurious Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



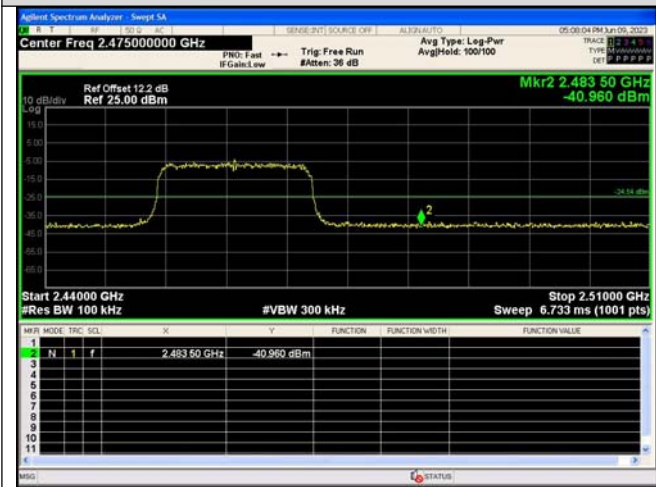
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



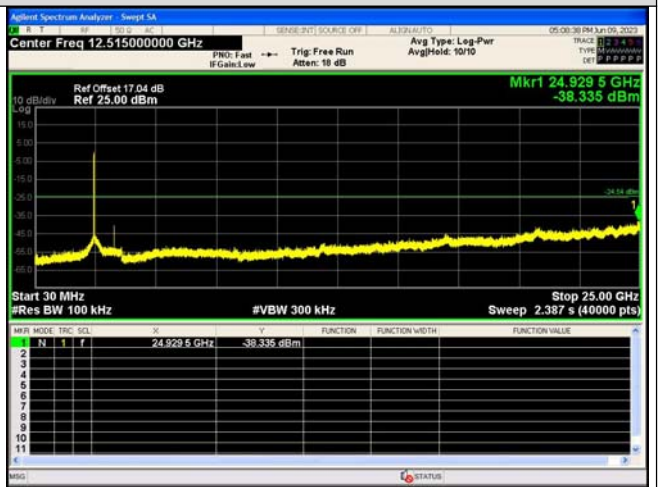
Spurious Emissions
IEEE 802.11n_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



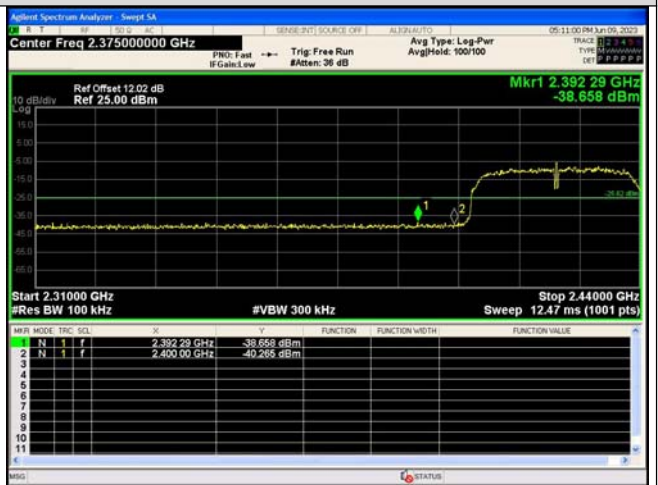
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



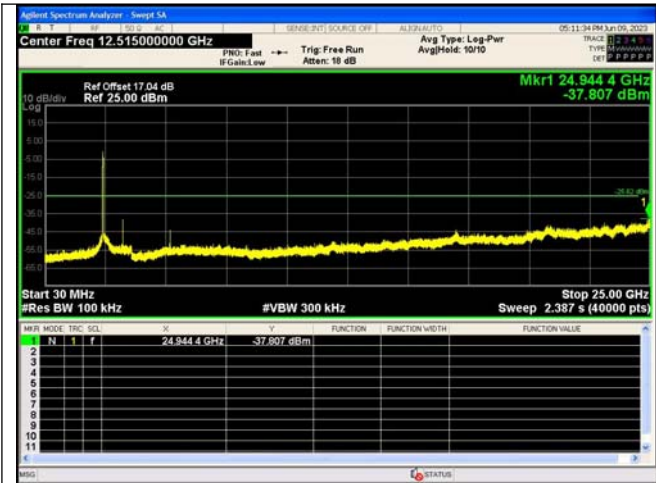
Spurious Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



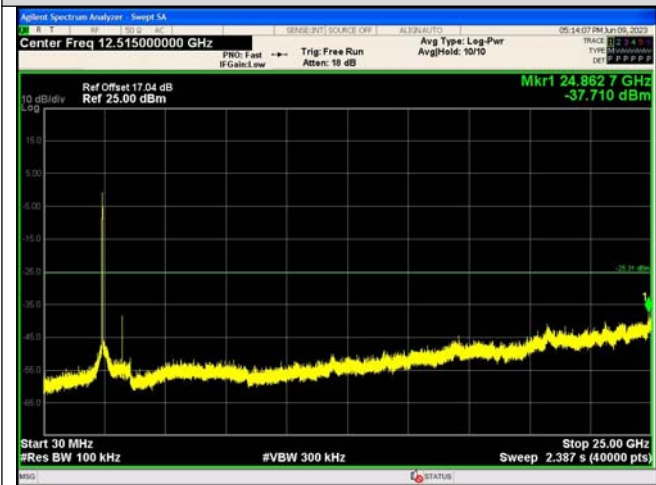
Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



Spurious Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 6_40MHz_Antenna 0



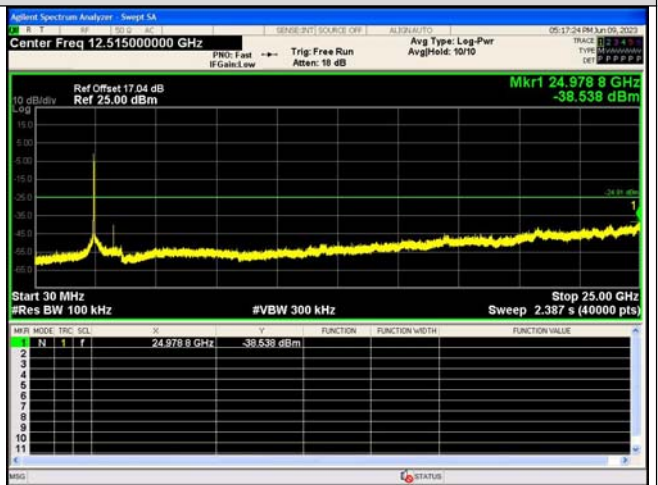
Spurious Emissions
IEEE 802.11n_Channel 6_40MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 9_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 0



Spurious Emission
IEEE 802.11n_Channel 9_40MHz_Antenna 0

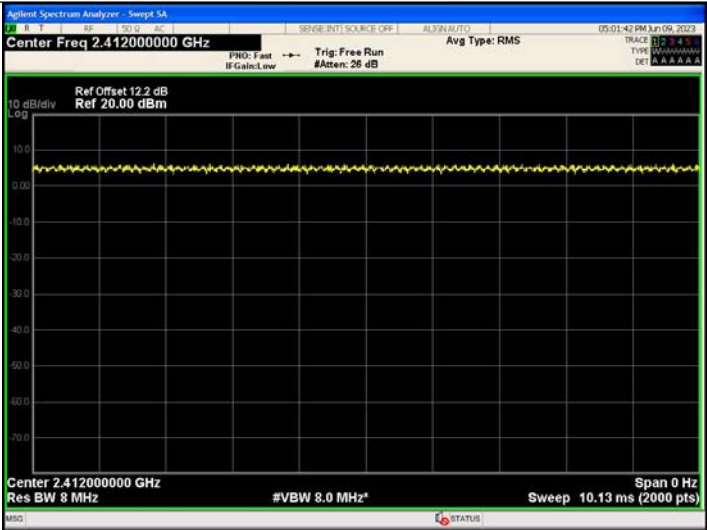
APPENDIX V.Duty Cycle

Test Result

Mode	Data rates	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
IEEE 802.11b	11	1	30.120	30.120	100	1	0.0
IEEE 802.11g	54	1	10.130	10.130	100	1	0.0
IEEE 802.11n_20	MCS 7	1	10.130	10.130	100	1	0.0
IEEE 802.11n_40		3	10.130	10.130	100	1	0.0

Test Graphs





IEEE 802.11n_20MHz_Channel 1



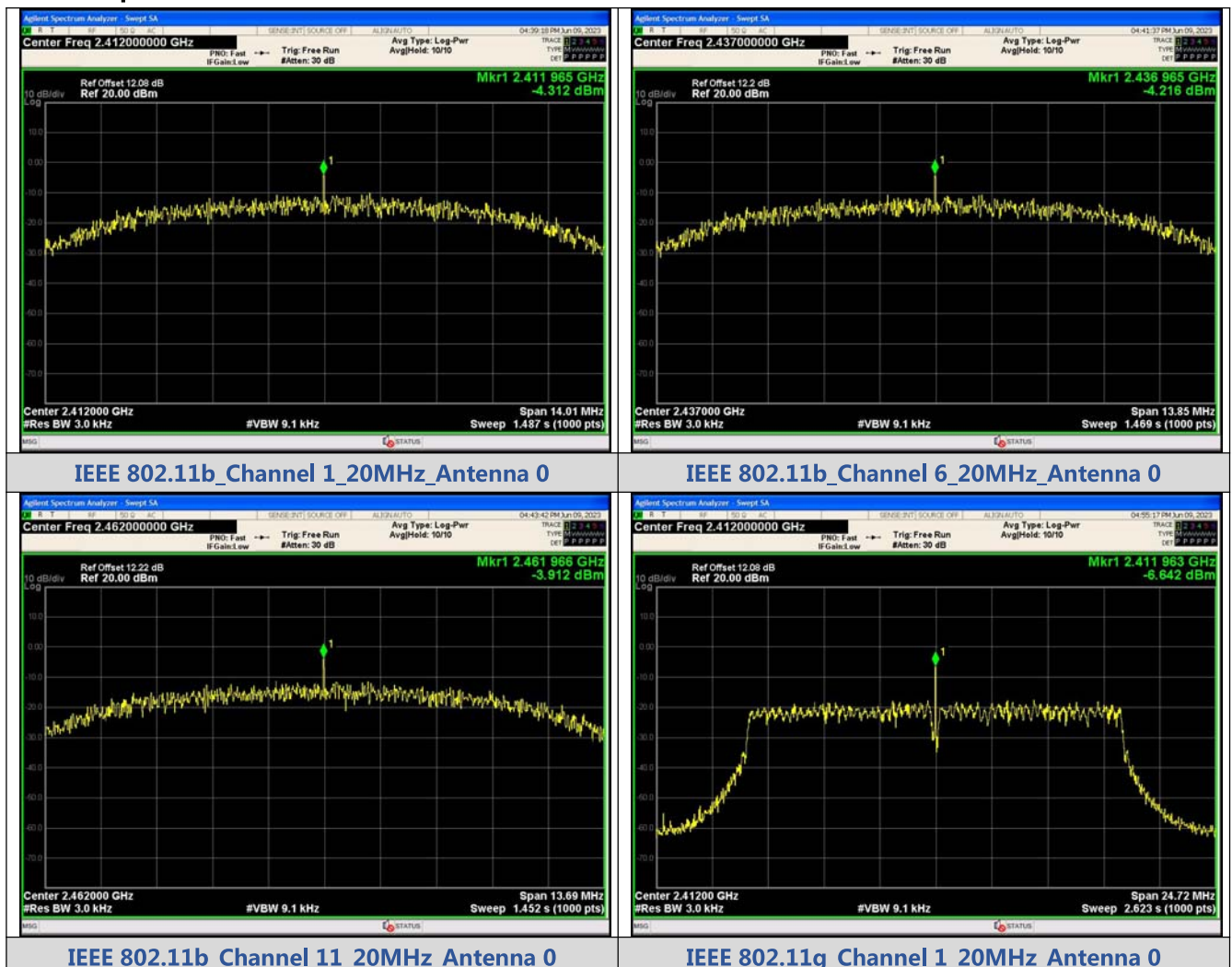
IEEE 802.11n_40MHz_Channel 3

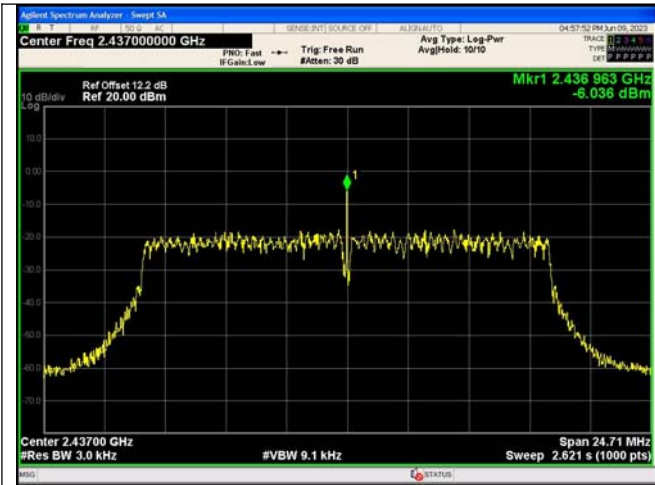
APPENDIX VI. Power Spectral Density

Test Result

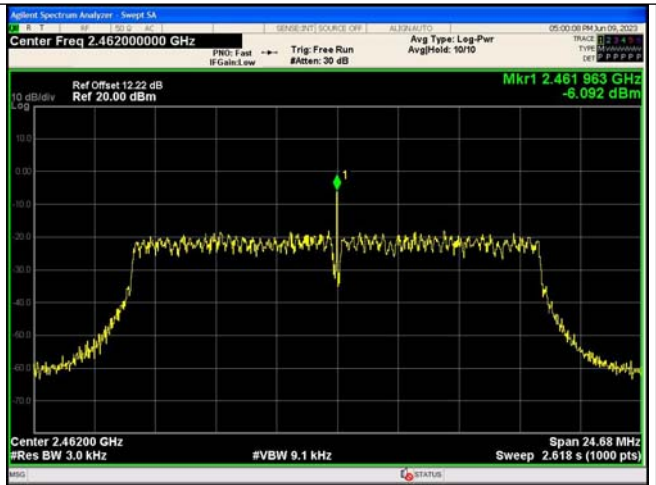
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-4.312	8	PASS
	6	-4.216		PASS
	11	-3.912		PASS
IEEE 802.11g	1	-6.642		PASS
	6	-6.036		PASS
	11	-6.092		PASS
IEEE 802.11n_20	1	-6.552		PASS
	6	-5.913		PASS
	11	-6.095		PASS
IEEE 802.11n_40	3	-6.671		PASS
	6	-6.378		PASS
	9	-6.322		PASS

Test Graphs

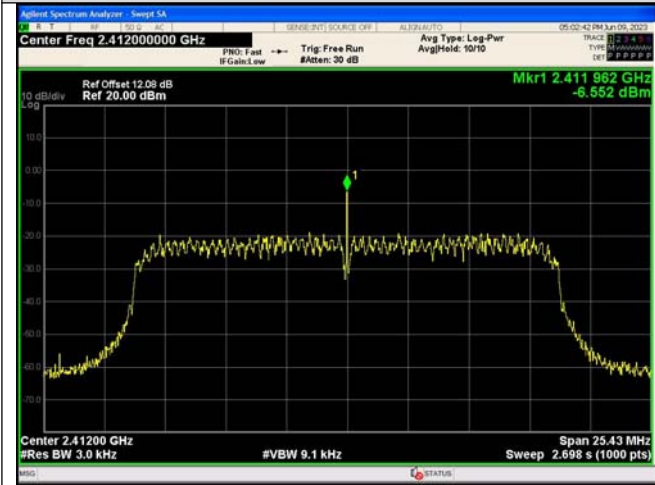




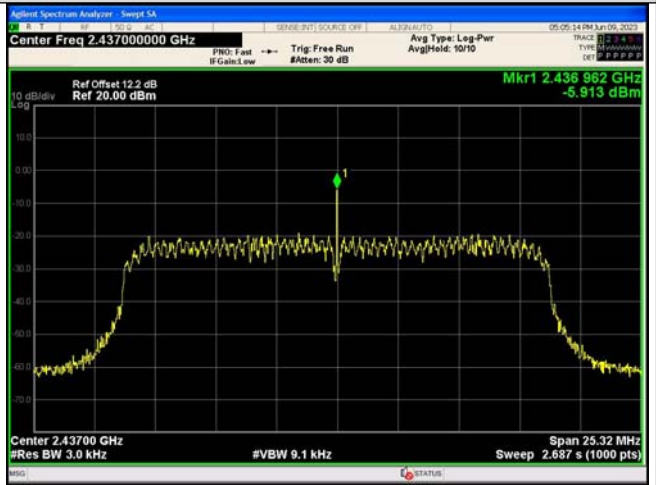
IEEE 802.11g_Channel 6_20MHz_Antenna 0



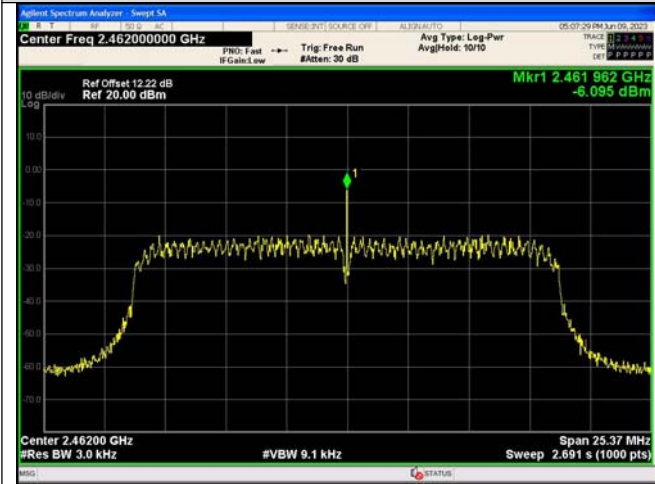
IEEE 802.11g_Channel 11_20MHz_Antenna 0



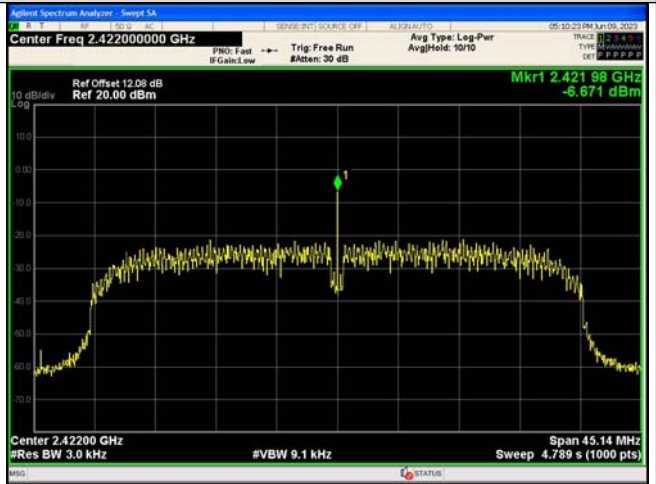
IEEE 802.11n_Channel 1_20MHz_Antenna 0



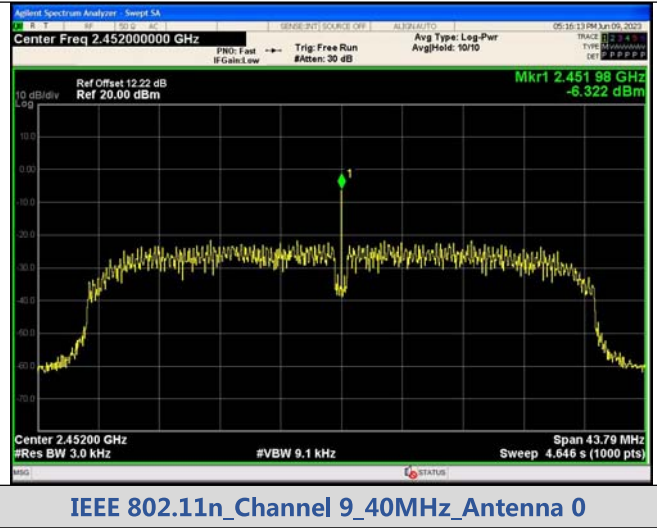
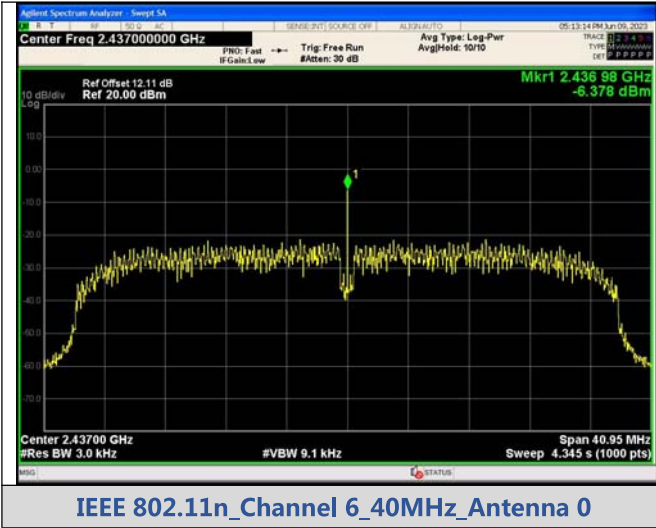
IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



***** End of Report *****