

Appendix for 2.4G WIFI

Test Report No.:CTL2207053063-WF01

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2407.160	2417.240	0.5	PASS
	Ant2	2412	10.160	2407.080	2417.240	0.5	PASS
	Ant1	2437	10.080	2432.120	2442.200	0.5	PASS
	Ant2	2437	10.200	2432.080	2442.280	0.5	PASS
	Ant1	2462	10.120	2457.120	2467.240	0.5	PASS
	Ant2	2462	9.920	2457.320	2467.240	0.5	PASS
11G	Ant1	2412	16.440	2403.960	2420.400	0.5	PASS
	Ant2	2412	16.440	2403.960	2420.400	0.5	PASS
	Ant1	2437	16.440	2428.960	2445.400	0.5	PASS
	Ant2	2437	16.480	2428.920	2445.400	0.5	PASS
	Ant1	2462	16.440	2453.960	2470.400	0.5	PASS
	Ant2	2462	16.440	2453.960	2470.400	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.360	2421.000	0.5	PASS
	Ant2	2412	17.640	2403.360	2421.000	0.5	PASS
	Ant1	2437	17.640	2428.360	2446.000	0.5	PASS
	Ant2	2437	17.640	2428.360	2446.000	0.5	PASS
	Ant1	2462	17.640	2453.360	2471.000	0.5	PASS
	Ant2	2462	17.640	2453.360	2471.000	0.5	PASS
11N40SISO	Ant1	2422	35.840	2404.160	2440.000	0.5	PASS
	Ant2	2422	35.840	2404.320	2440.160	0.5	PASS
	Ant1	2437	35.680	2419.480	2455.160	0.5	PASS
	Ant2	2437	35.920	2419.080	2455.000	0.5	PASS
	Ant1	2452	35.920	2434.240	2470.160	0.5	PASS
	Ant2	2452	35.840	2434.320	2470.160	0.5	PASS

Test Graphs



11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437



11B_Ant2_2437



11B_Ant1_2462



11B_Ant2_2462



11G_Ant1_2412



11G_Ant2_2412



11G_Ant1_2437



11G_Ant2_2437



11G_Ant1_2462



11G_Ant2_2462



11N20SISO_Ant1_2412



11N20SISO_Ant2_2412



11N20SISO_Ant1_2437



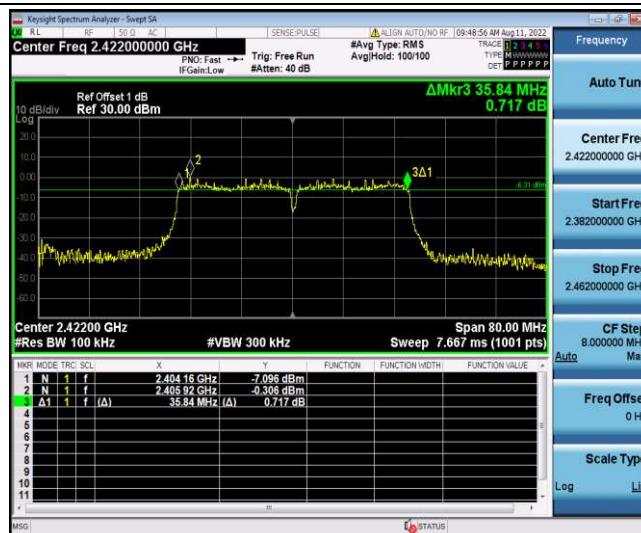
11N20SISO_Ant2_2437



11N20SISO_Ant1_2462



11N20SISO_Ant2_2462



11N40SISO_Ant1_2422



11N40SISO_Ant2_2422



11N40SISO_Ant1_2437



11N40SISO_Ant2_2437



11N40SISO_Ant1_2452



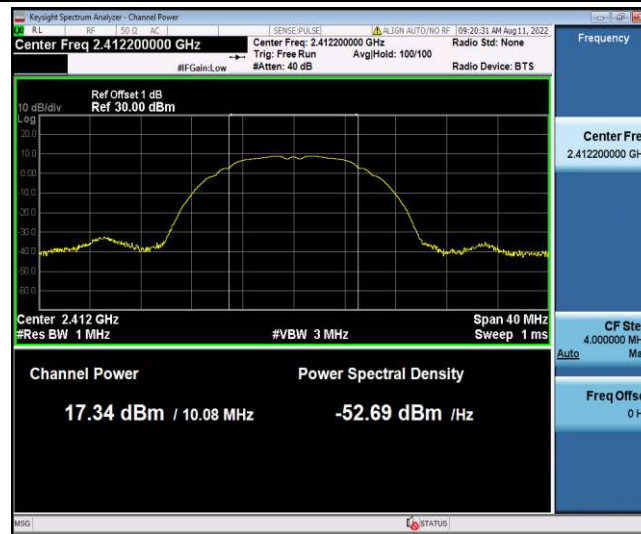
11N40SISO_Ant2_2452

Appendix B: Maximum conducted output power

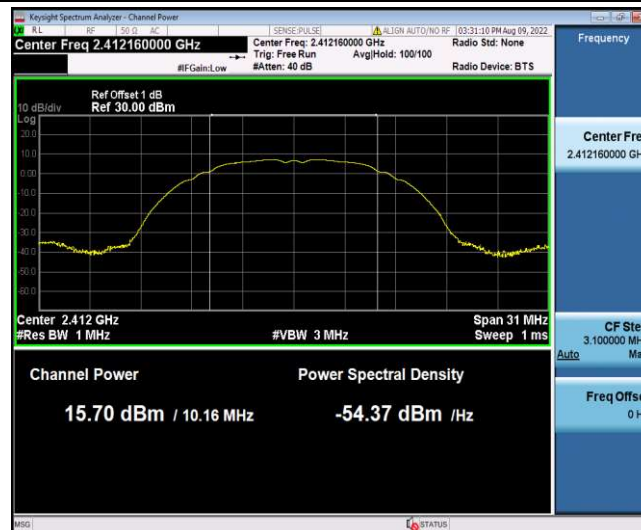
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	17.34	≤30	PASS
	Ant2	2412	15.70	≤30	PASS
	Ant1	2437	17.48	≤30	PASS
	Ant2	2437	15.83	≤30	PASS
	Ant1	2462	17.48	≤30	PASS
	Ant2	2462	15.73	≤30	PASS
11G	Ant1	2412	20.72	≤30	PASS
	Ant2	2412	19.18	≤30	PASS
	Ant1	2437	20.90	≤30	PASS
	Ant2	2437	19.30	≤30	PASS
	Ant1	2462	20.99	≤30	PASS
	Ant2	2462	19.25	≤30	PASS
11N20SISO	Ant1	2412	20.94	≤30	PASS
	Ant2	2412	19.40	≤30	PASS
	Ant1	2437	21.07	≤30	PASS
	Ant2	2437	19.56	≤30	PASS
	Ant1	2462	21.16	≤30	PASS
	Ant2	2462	19.54	≤30	PASS
11N40SISO	Ant1	2422	21.08	≤30	PASS
	Ant2	2422	19.50	≤30	PASS
	Ant1	2437	21.14	≤30	PASS
	Ant2	2437	19.52	≤30	PASS
	Ant1	2452	21.15	≤30	PASS
	Ant2	2452	17.66	≤30	PASS

Test Graphs



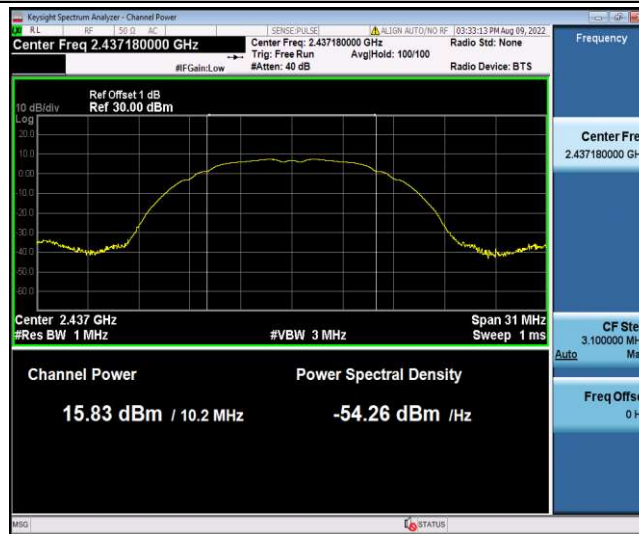
11B_Ant1_2412



11B_Ant2_2412



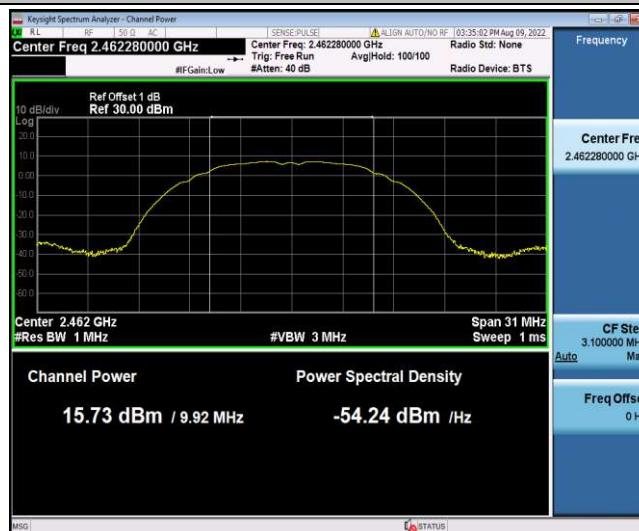
11B_Ant1_2437



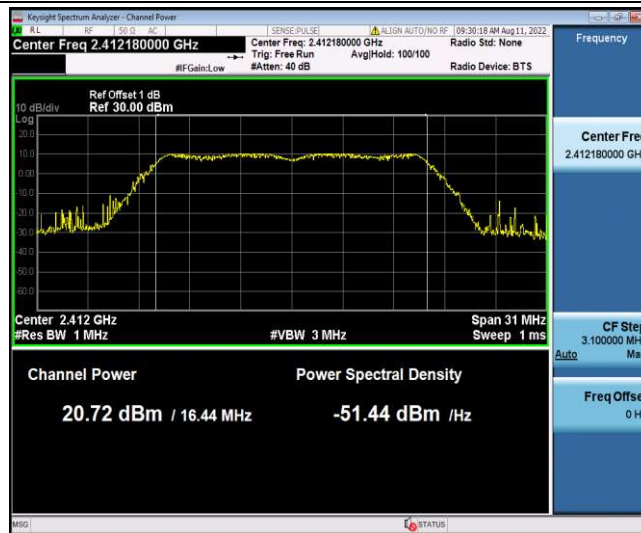
11B_Ant2_2437



11B_Ant1_2462



11B_Ant2_2462



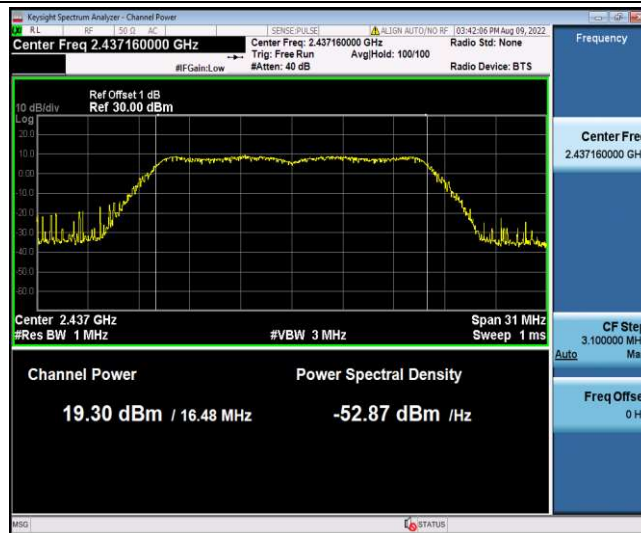
11G_Ant1_2412



11G_Ant2_2412



11G_Ant1_2437



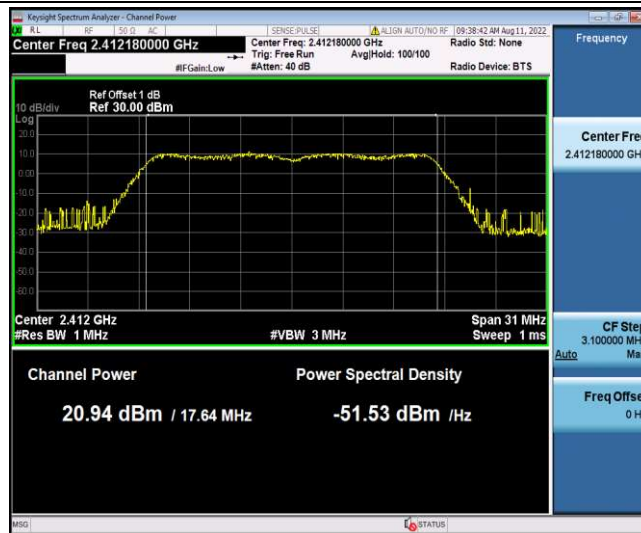
11G_Ant2_2437



11G_Ant1_2462



11G_Ant2_2462



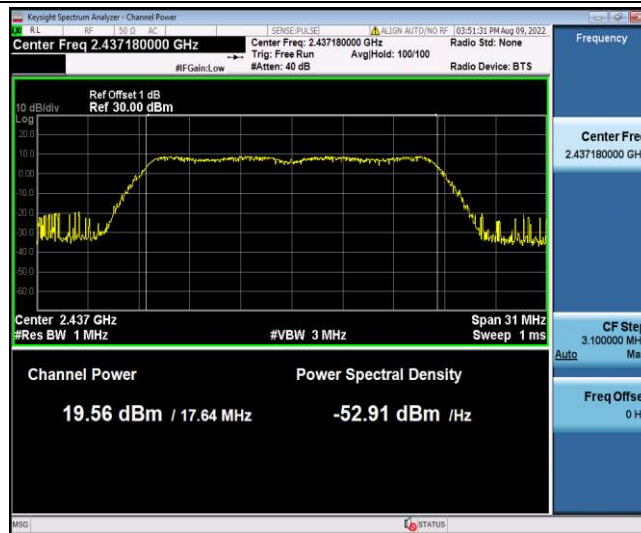
11N20SISO_Ant1_2412



11N20SISO_Ant2_2412



11N20SISO_Ant1_2437



11N20SISO_Ant2_2437



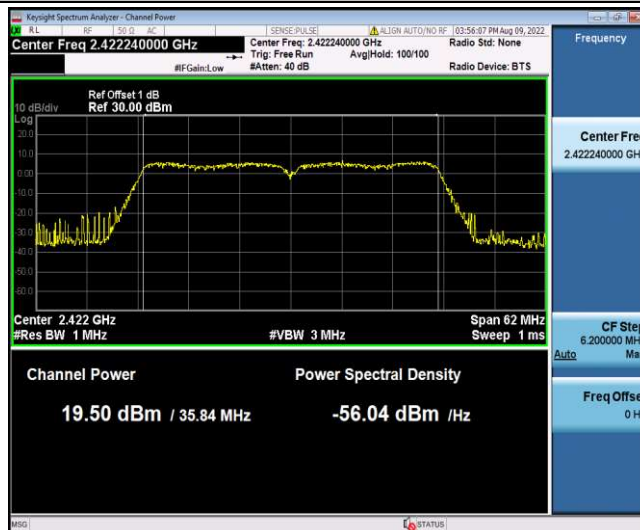
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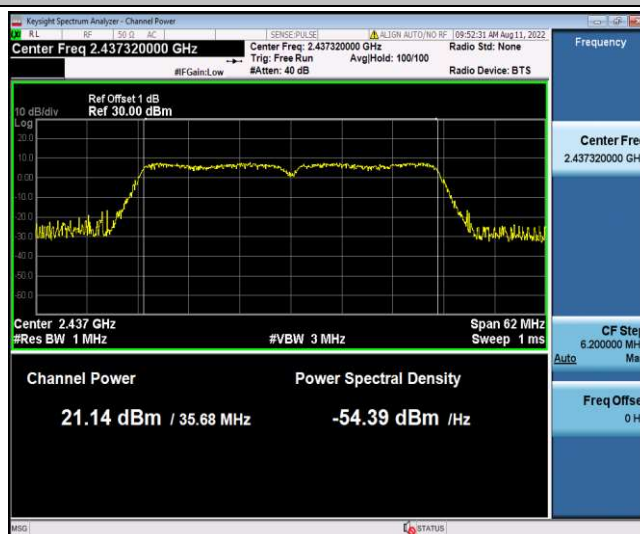
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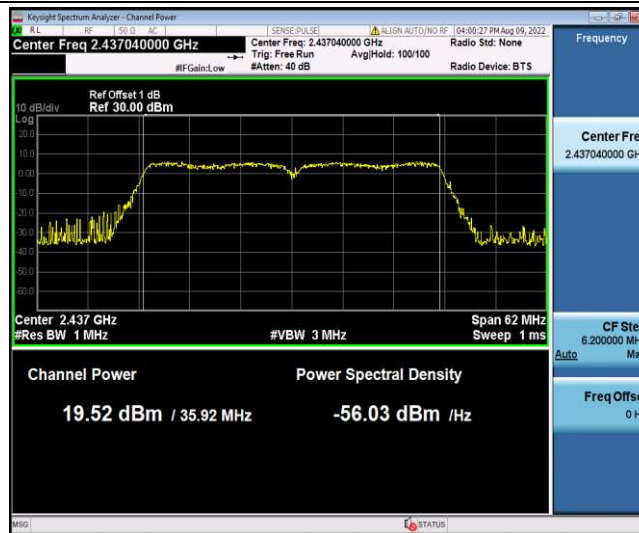
11N40SISO_Ant1_2422



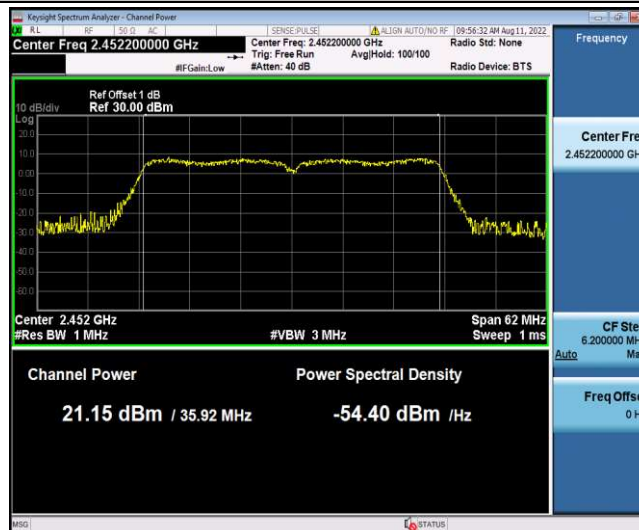
11N40SISO_Ant2_2422



11N40SISO_Ant1_2437



11N40SISO_Ant2_2437



11N40SISO_Ant1_2452



11N40SISO_Ant2_2452

Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.26	≤8	PASS
	Ant2	2412	-6.16	≤8	PASS
	Ant1	2437	-3.88	≤8	PASS
	Ant2	2437	-6.02	≤8	PASS
	Ant1	2462	-5.27	≤8	PASS
	Ant2	2462	-5.59	≤8	PASS
11G	Ant1	2412	-11.82	≤8	PASS
	Ant2	2412	-12.59	≤8	PASS
	Ant1	2437	-12.05	≤8	PASS
	Ant2	2437	-13.55	≤8	PASS
	Ant1	2462	-11.96	≤8	PASS
	Ant2	2462	-14.12	≤8	PASS
11N20SISO	Ant1	2412	-10.68	≤8	PASS
	Ant2	2412	-12.33	≤8	PASS
	Ant1	2437	-10.43	≤8	PASS
	Ant2	2437	-12.23	≤8	PASS
	Ant1	2462	-10.33	≤8	PASS
	Ant2	2462	-13.13	≤8	PASS
11N40SISO	Ant1	2422	-14	≤8	PASS
	Ant2	2422	-15.34	≤8	PASS
	Ant1	2437	-13.53	≤8	PASS
	Ant2	2437	-14.13	≤8	PASS
	Ant1	2452	-13.62	≤8	PASS
	Ant2	2452	-15.98	≤8	PASS

Test Graphs



11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437



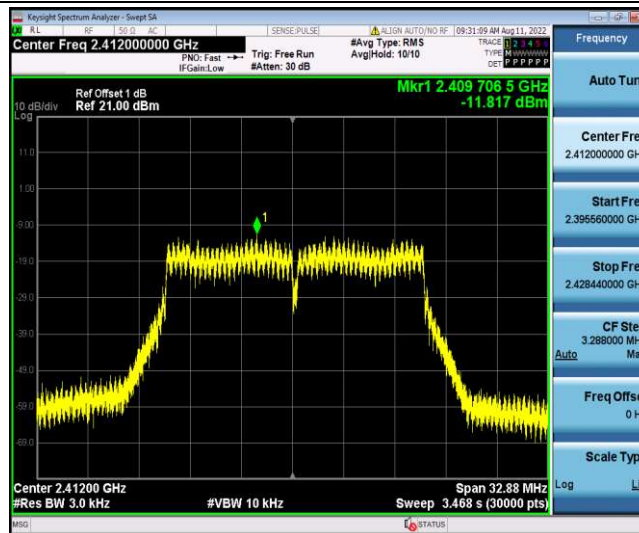
11B_Ant2_2437



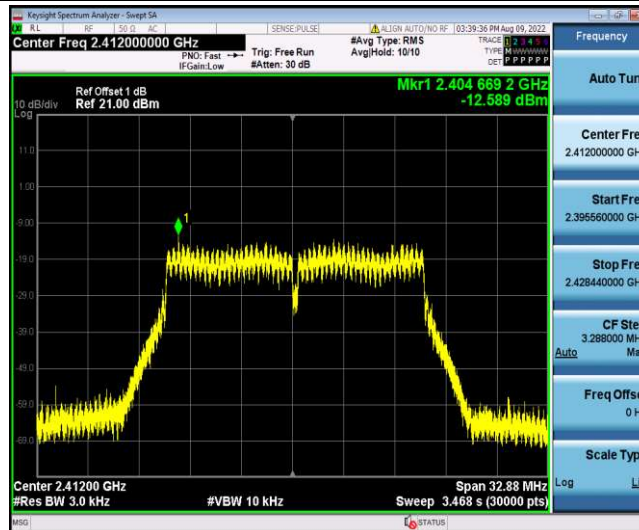
11B_Ant1_2462



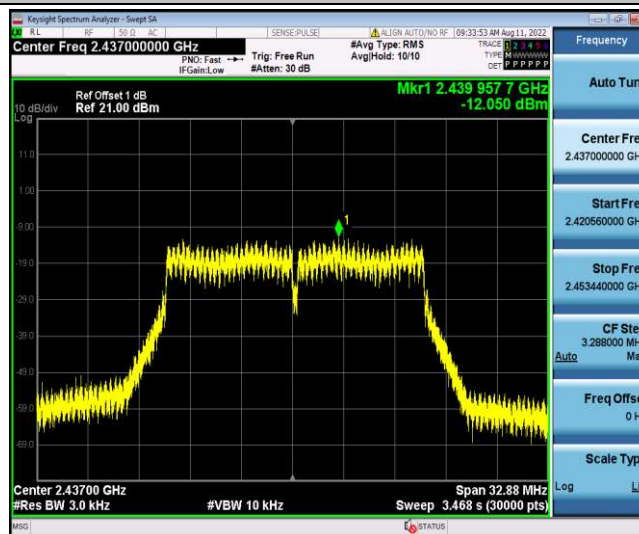
11B_Ant2_2462



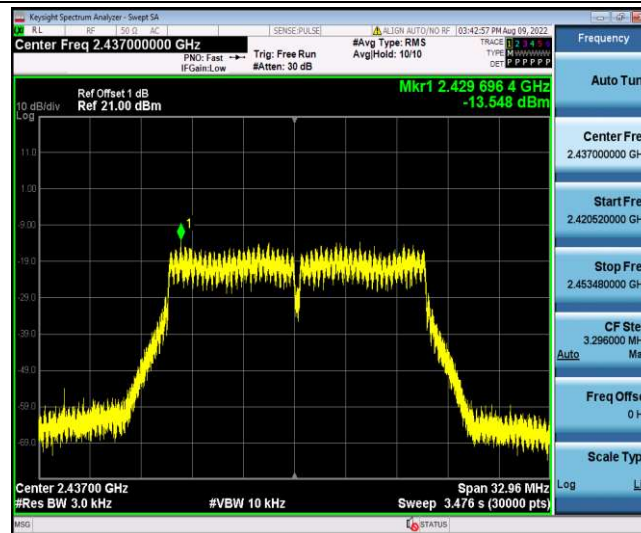
11G_Ant1_2412



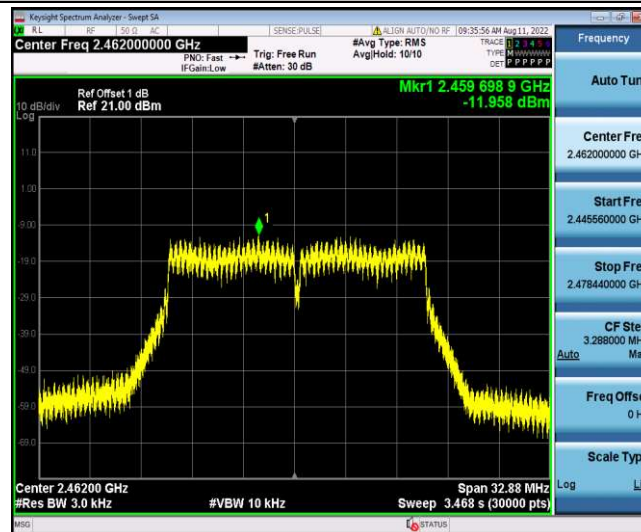
11G_Ant2_2412



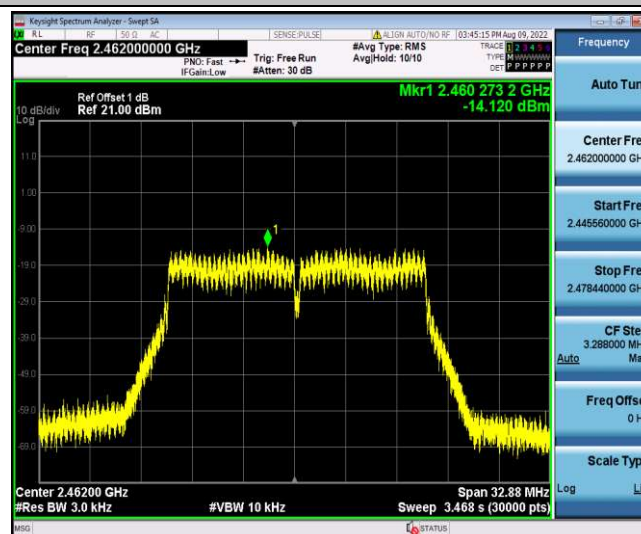
11G_Ant1_2437



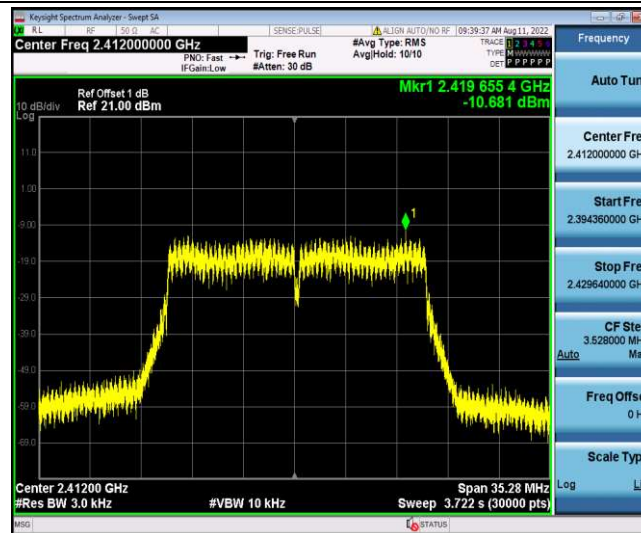
11G_Ant2_2437



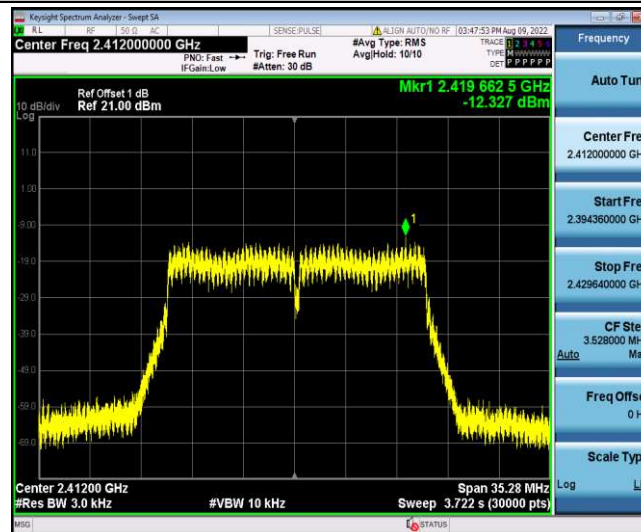
11G_Ant1_2462



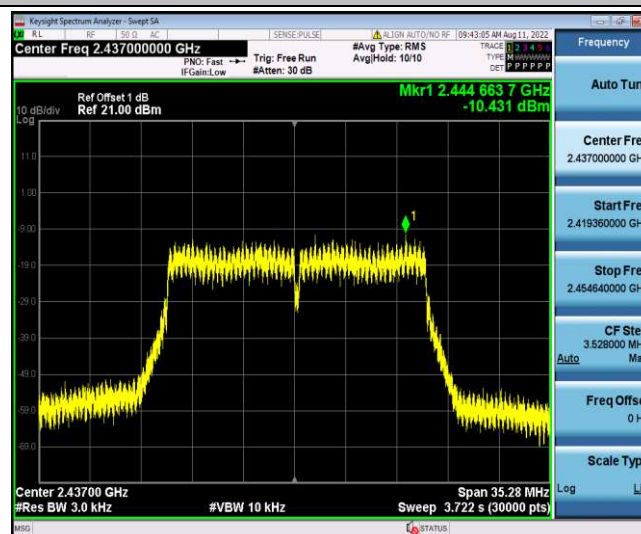
11G_Ant2_2462



11N20SISO_Ant1_2412



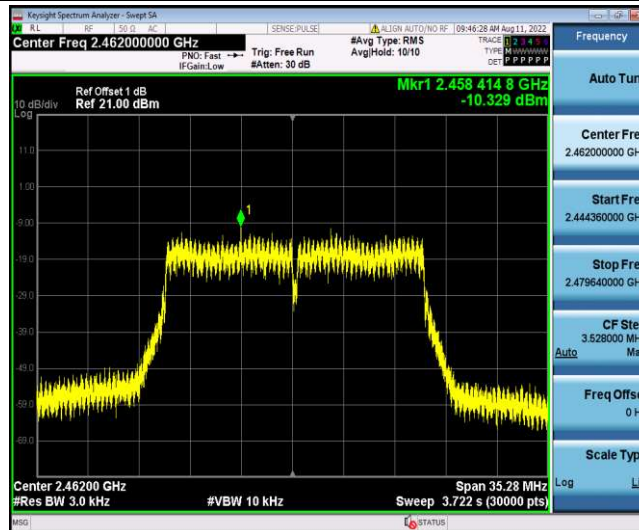
11N20SISO_Ant2_2412



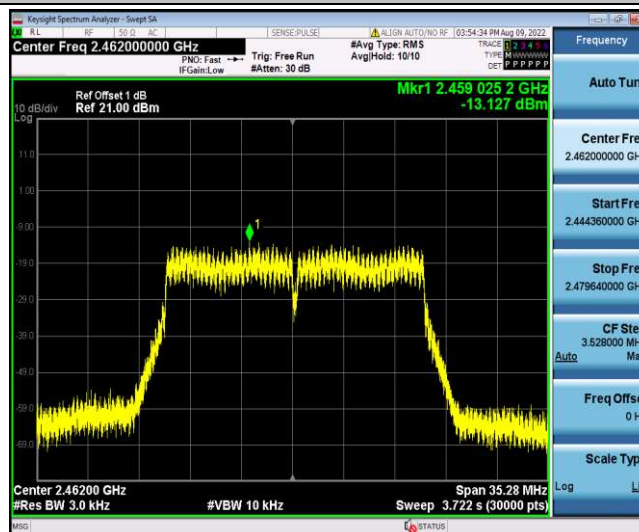
11N20SISO_Ant1_2437



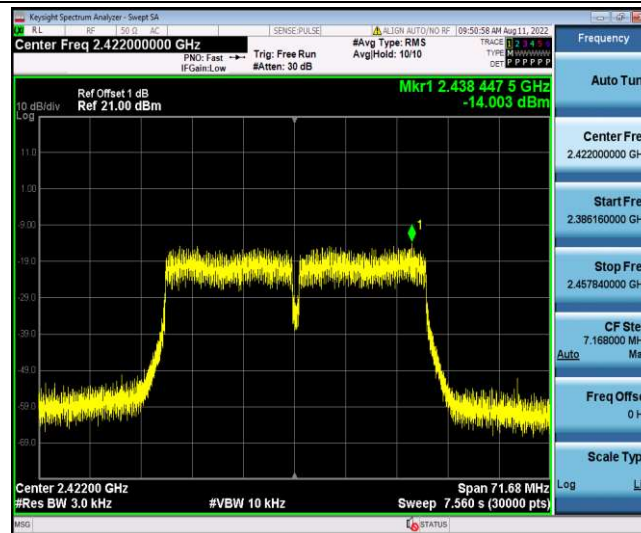
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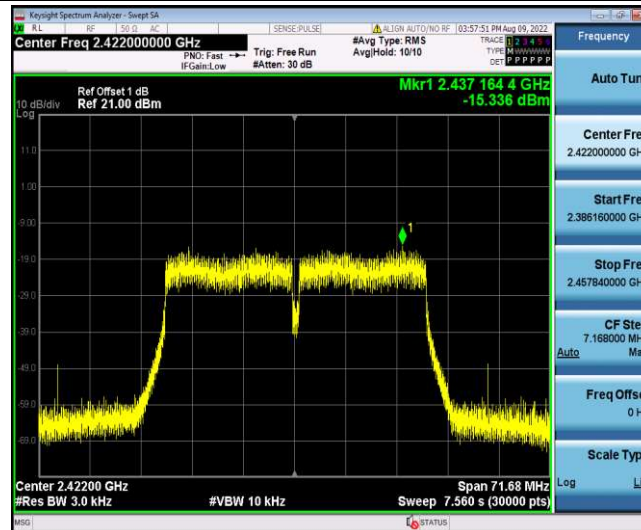
11N20SISO_Ant1_2462



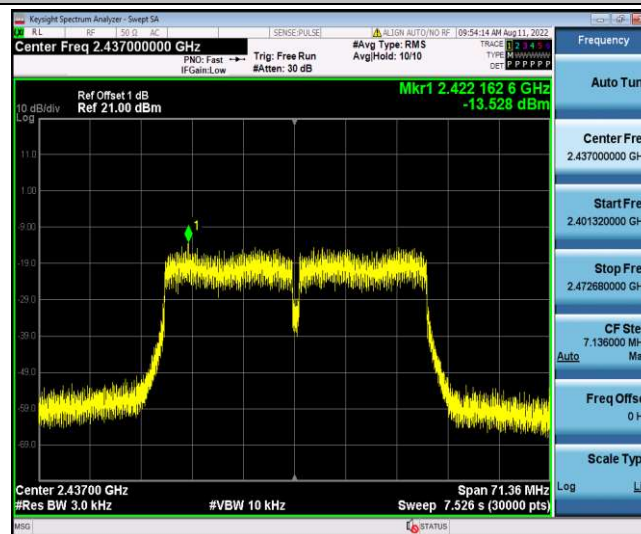
11N20SISO_Ant2_2462



11N40SISO_Ant1_2422



11N40SISO_Ant2_2422



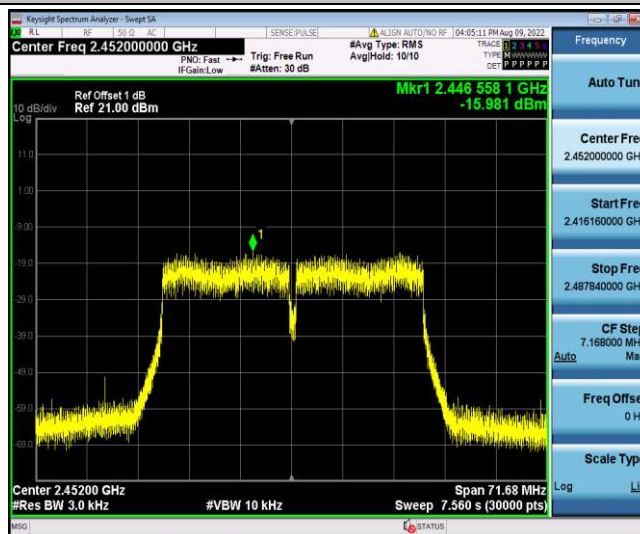
11N40SISO_Ant1_2437



11N40SISO_Ant2_2437



11N40SISO_Ant1_2452



11N40SISO_Ant2_2452

Appendix D: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.13	-38.15	≤ -14.87	PASS
	Ant2	Low	2412	3.85	-41.31	≤ -16.15	PASS
	Ant1	High	2462	5.59	-50.72	≤ -14.41	PASS
	Ant2	High	2462	3.77	-51.41	≤ -16.23	PASS
11G	Ant1	Low	2412	3.00	-34.52	≤ -17	PASS
	Ant2	Low	2412	1.31	-35.75	≤ -18.7	PASS
	Ant1	High	2462	2.98	-43.11	≤ -17.03	PASS
	Ant2	High	2462	1.39	-40.19	≤ -18.61	PASS
11N20SISO	Ant1	Low	2412	2.98	-33.52	≤ -17.02	PASS
	Ant2	Low	2412	1.30	-35.96	≤ -18.7	PASS
	Ant1	High	2462	3.09	-42.33	≤ -16.91	PASS
	Ant2	High	2462	1.22	-45.01	≤ -18.79	PASS
11N40SISO	Ant1	Low	2422	0.03	-33.58	≤ -19.97	PASS
	Ant2	Low	2422	-1.48	-37.37	≤ -21.48	PASS
	Ant1	High	2452	0.34	-30.66	≤ -19.66	PASS
	Ant2	High	2452	-1.63	-39.69	≤ -21.63	PASS

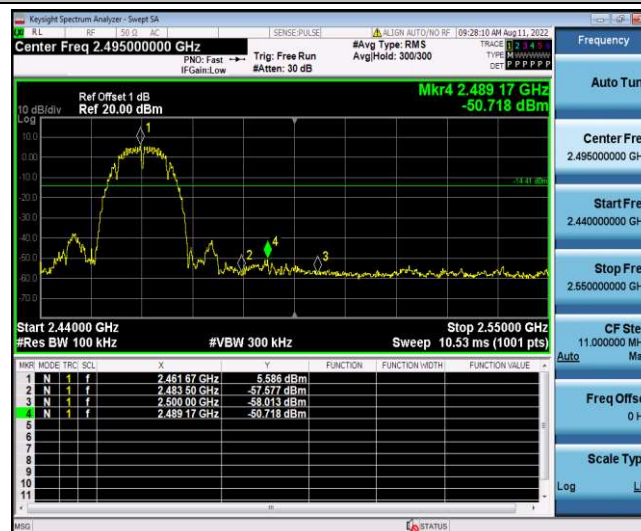
Test Graphs



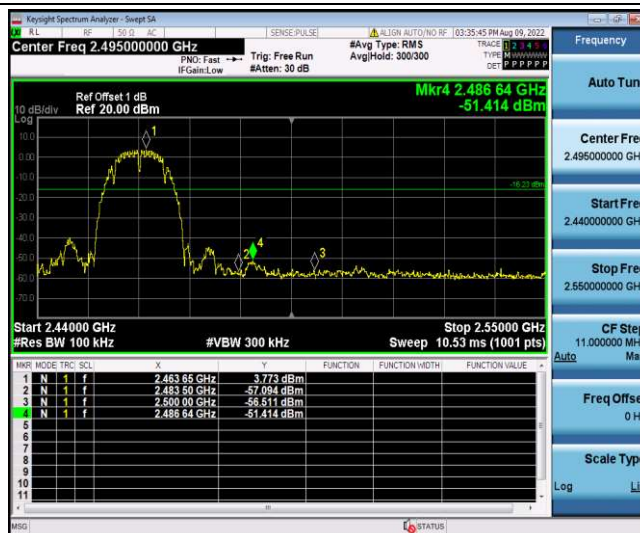
11B_Ant1_Low_2412



11B_Ant2_Low_2412



11B_Ant1_High_2462



11B_Ant2_High_2462



11G_Ant1_Low_2412



11G_Ant2_Low_2412



11G_Ant1_High_2462



11G_Ant2_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant2_Low_2412



11N20SISO_Ant1_High_2462



11N20SISO_Ant2_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant2_Low_2422



11N40SISO_Ant1_High_2452



11N40SISO_Ant2_High_2452

Appendix E: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.93	4.93	---	PASS
			30~3000	4.93	-43.04	≤-15.07	PASS
			3000~26500	4.93	-38.84	≤-15.07	PASS
	Ant2	2412	Reference	3.87	3.87	---	PASS
			30~3000	3.87	-48.43	≤-16.13	PASS
			3000~26500	3.87	-40.38	≤-16.13	PASS
	Ant1	2437	Reference	4.95	4.95	---	PASS
			30~3000	4.95	-48.8	≤-15.06	PASS
			3000~26500	4.95	-40.21	≤-15.06	PASS
	Ant2	2437	Reference	3.82	3.82	---	PASS
			30~3000	3.82	-48.36	≤-16.18	PASS
			3000~26500	3.82	-42.47	≤-16.18	PASS
	Ant1	2462	Reference	5.11	5.11	---	PASS
			30~3000	5.11	-43.94	≤-14.9	PASS
			3000~26500	5.11	-42.51	≤-14.9	PASS
	Ant2	2462	Reference	3.68	3.68	---	PASS
			30~3000	3.68	-47.05	≤-16.32	PASS
			3000~26500	3.68	-44.33	≤-16.32	PASS
11G	Ant1	2412	Reference	2.88	2.88	---	PASS
			30~3000	2.88	-49.48	≤-17.13	PASS
			3000~26500	2.88	-44.83	≤-17.13	PASS
	Ant2	2412	Reference	1.29	1.29	---	PASS
			30~3000	1.29	-50.79	≤-18.71	PASS
			3000~26500	1.29	-45.2	≤-18.71	PASS
	Ant1	2437	Reference	3.01	3.01	---	PASS
			30~3000	3.01	-49.75	≤-17	PASS
			3000~26500	3.01	-44.55	≤-17	PASS
	Ant2	2437	Reference	1.31	1.31	---	PASS
			30~3000	1.31	-51.59	≤-18.69	PASS
			3000~26500	1.31	-44.05	≤-18.69	PASS
	Ant1	2462	Reference	3.08	3.08	---	PASS
			30~3000	3.08	-50.3	≤-16.93	PASS
			3000~26500	3.08	-44.77	≤-16.93	PASS
	Ant2	2462	Reference	1.36	1.36	---	PASS
			30~3000	1.36	-51.39	≤-18.64	PASS
			3000~26500	1.36	-44.85	≤-18.64	PASS
11N20SISO	Ant1	2412	Reference	1.14	1.14	---	PASS