Appendix: 2.4G WIFI

Contents

Appendix A: DTS Bandwidth 3
Test Result 3
Test Graphs 4
Appendix B: Occupied Channel Bandwidth 9
Test Result 9
Test Graphs 10
Appendix C: Maximum conducted output power 15
Test Result 15
Appendix D: Maximum power spectral density 16
Test Result 16
Test Graphs 17
AppendixE:Band edge measurements 22
Test Result 22
Test Graphs 23
Appendix F:Conducted SpuriousEmission 26
Test Result 26
Test Graphs 27
AppendixG: DutyCycle 41
Test Result 41
Test Graphs 42

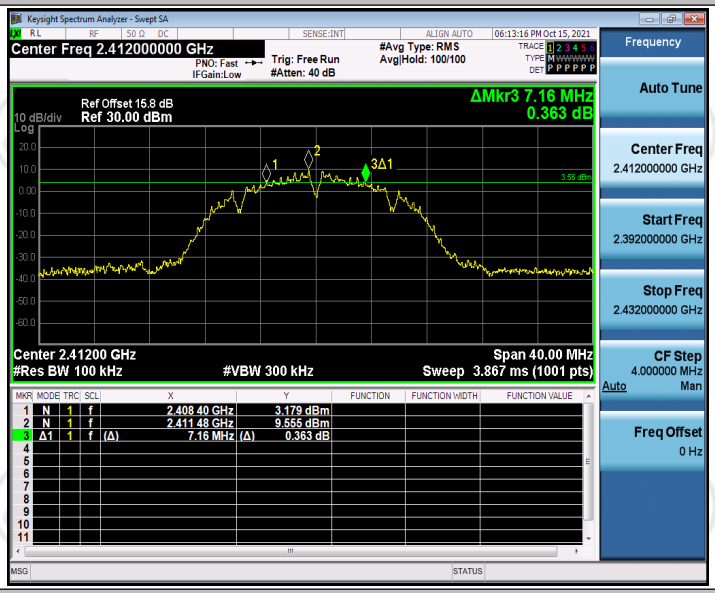
Appendix A: DTS Bandwidth

Test Result

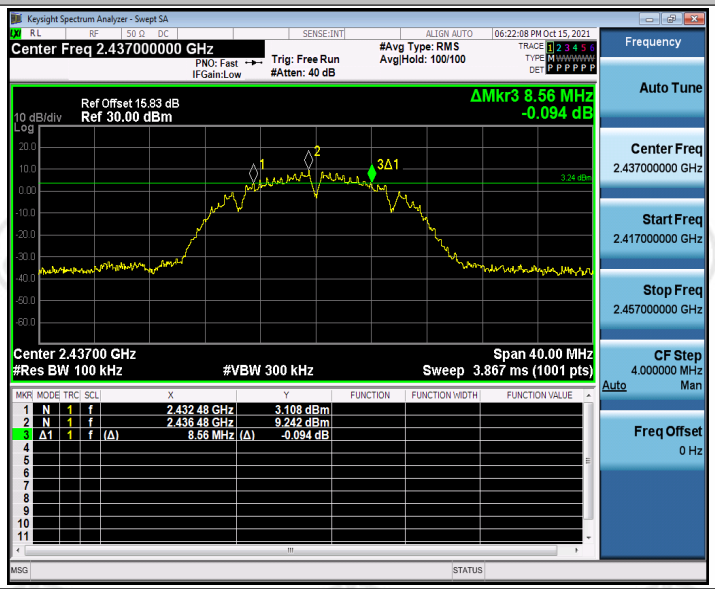
Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.160	2408.400	2415.560	0.5	PASS
		2437	8.560	2432.480	2441.040	0.5	PASS
		2462	9.600	2457.440	2467.040	0.5	PASS
11G	Ant1	2412	15.080	2404.480	2419.560	0.5	PASS
		2437	14.960	2429.600	2444.560	0.5	PASS
		2462	13.040	2456.560	2469.600	0.5	PASS
11N20SISO	Ant1	2412	15.160	2404.400	2419.560	0.5	PASS
		2437	15.360	2429.440	2444.800	0.5	PASS
		2462	14.120	2455.400	2469.520	0.5	PASS

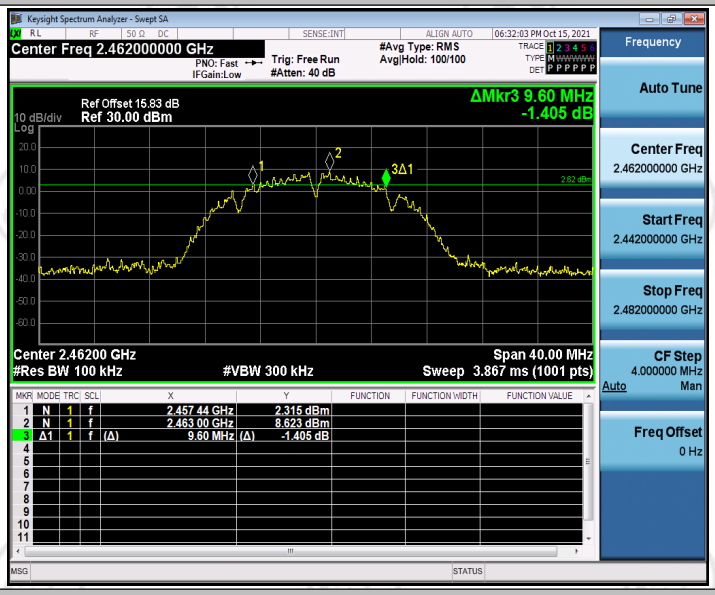
Test Graphs

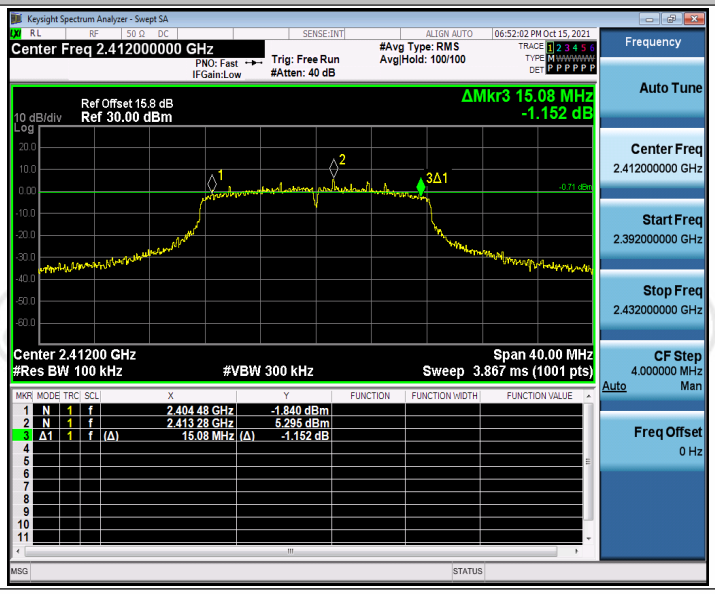
11B_Ant1_2412

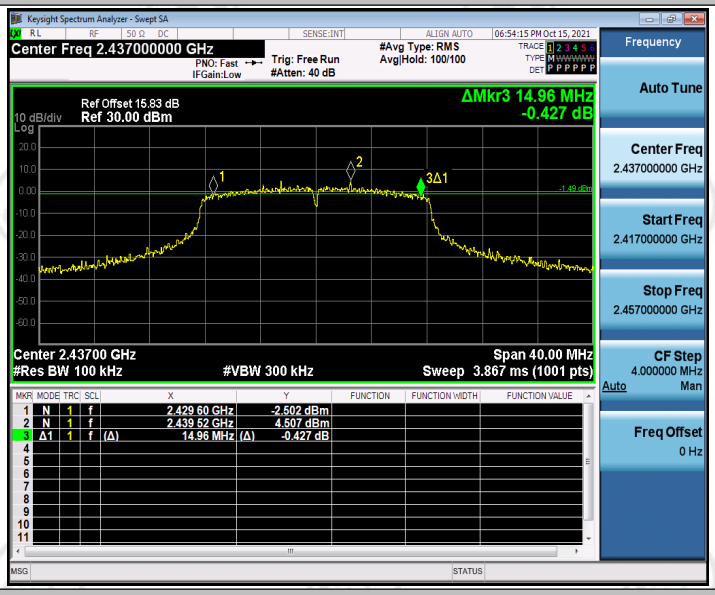


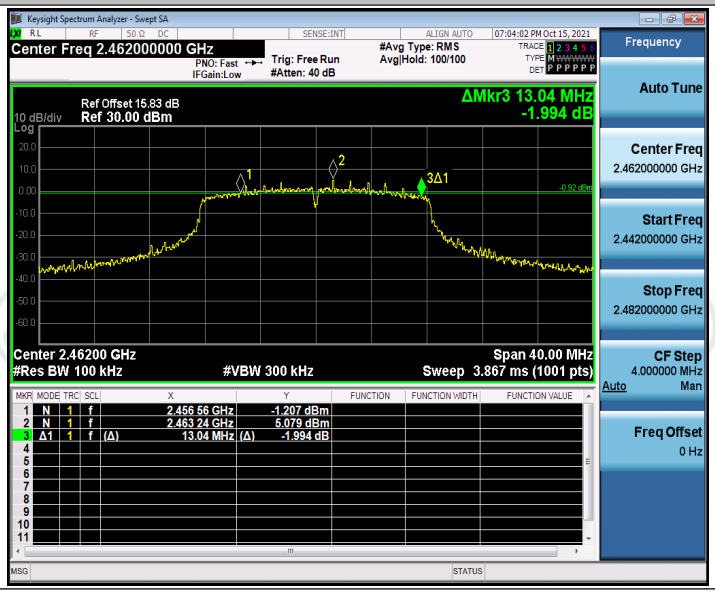
11B_Ant1_2437

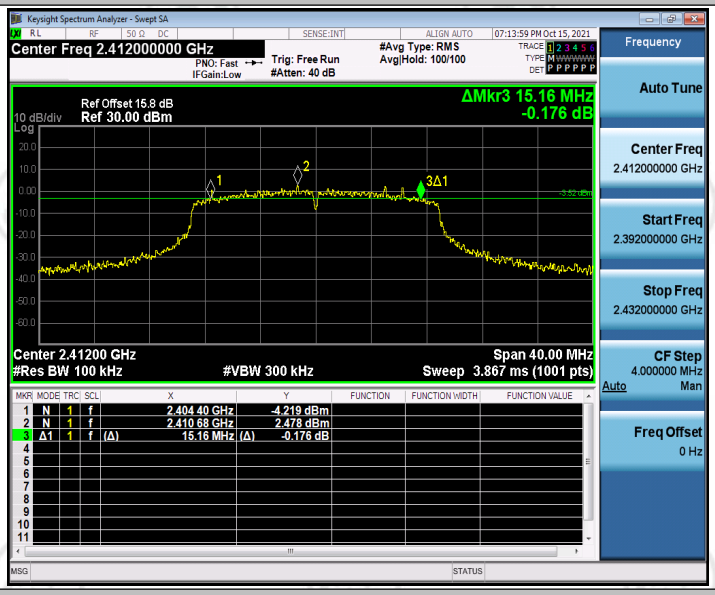
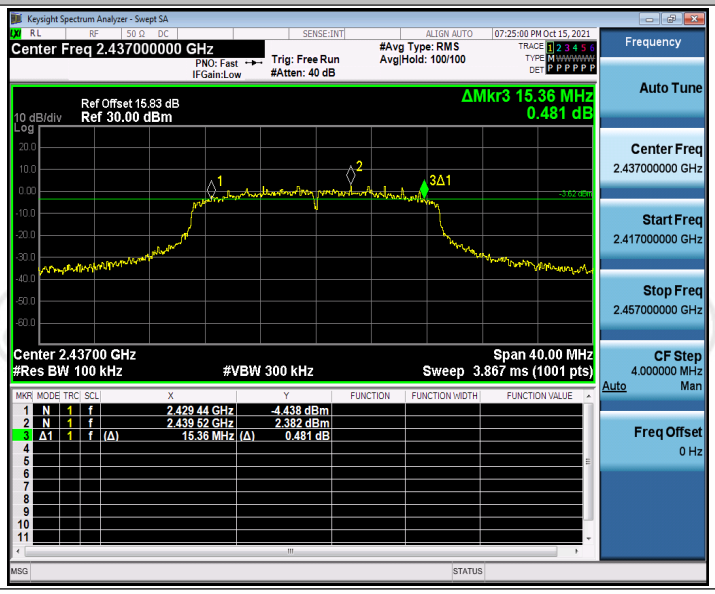


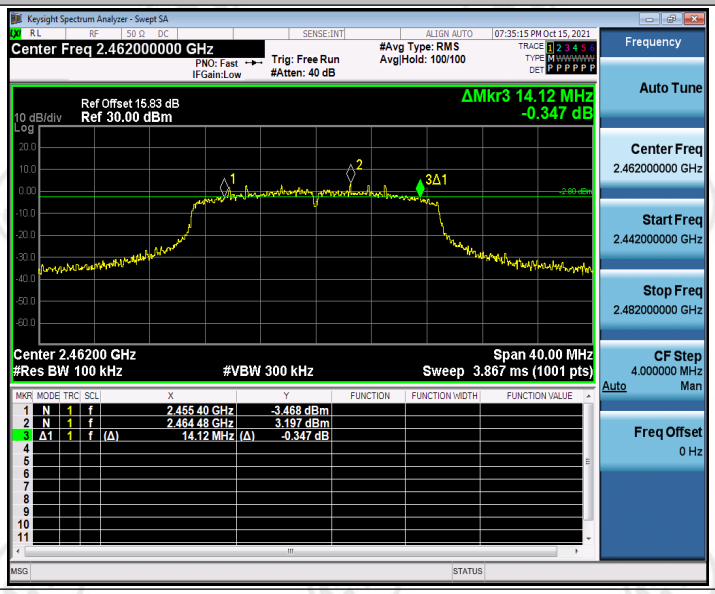
11B_Ant1_2462


11G_Ant1_2412


11G_Ant1_2437


11G_Ant1_2462


11N20SISO_Ant1_2412

11N20SISO_Ant1_2437


11N20SISO_Ant1_2462


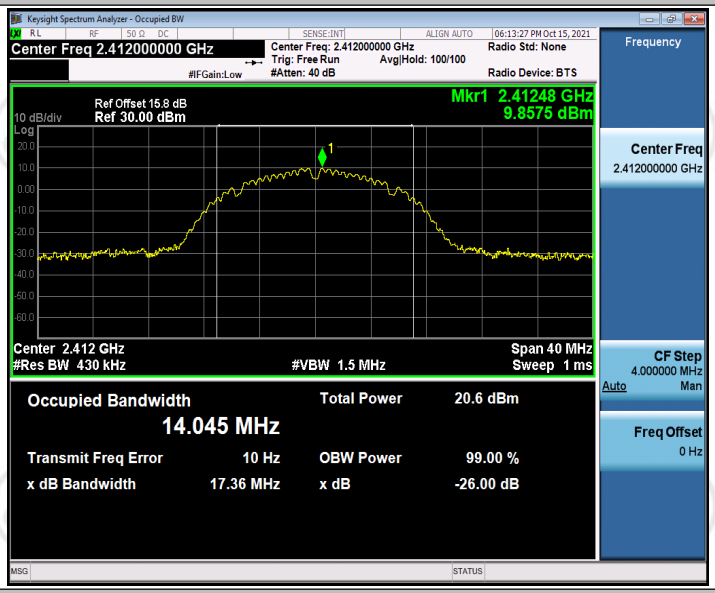
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.045	2404.978	2419.023	---	PASS
		2437	14.031	2429.977	2444.008	---	PASS
		2462	14.058	2454.971	2469.029	---	PASS
11G	Ant1	2412	16.624	2403.709	2420.333	---	PASS
		2437	16.691	2428.664	2445.355	---	PASS
		2462	16.701	2453.653	2470.354	---	PASS
11N20SISO	Ant1	2412	17.735	2403.128	2420.863	---	PASS
		2437	17.704	2428.127	2445.831	---	PASS
		2462	17.727	2453.137	2470.864	---	PASS

Test Graphs

11B_Ant1_2412

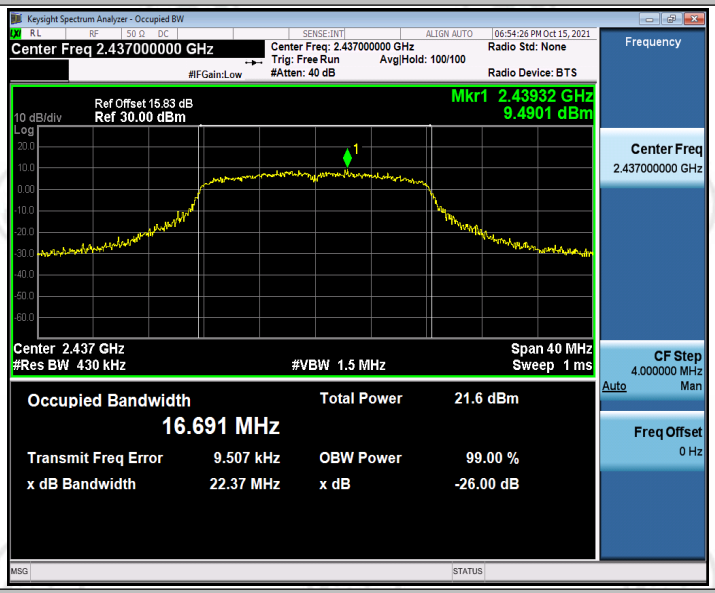


11B_Ant1_2437

11B_Ant1_2462

11G_Ant1_2412

11G_Ant1_2437



11G_Ant1_2462

11N20SISO_Ant1_2412

11N20SISO_Ant1_2437

11N20SISO_Ant1_2462

Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	14.94	<=30	PASS
		2437	14.90	<=30	PASS
		2462	14.85	<=30	PASS
11G	Ant1	2412	13.31	<=30	PASS
		2437	13.33	<=30	PASS
		2462	13.18	<=30	PASS
11N20SISO	Ant1	2412	13.16	<=30	PASS
		2437	13.20	<=30	PASS
		2462	13.00	<=30	PASS

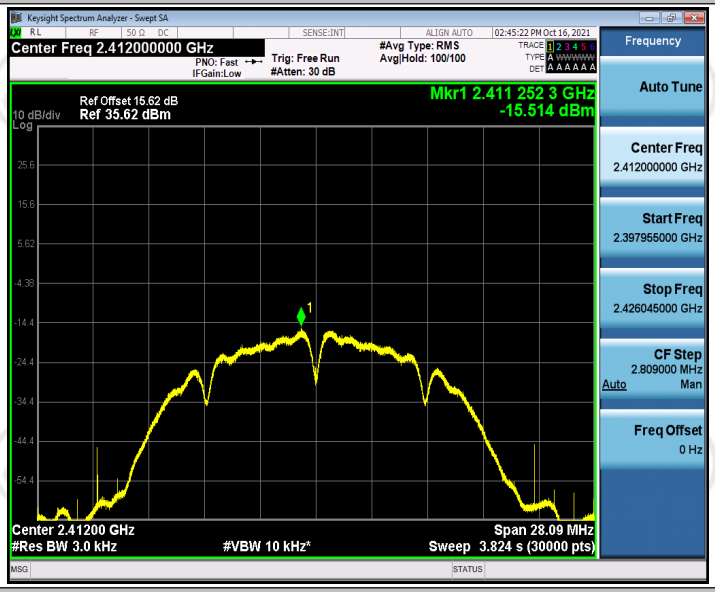
Appendix D: Maximum power spectral density

Test Result

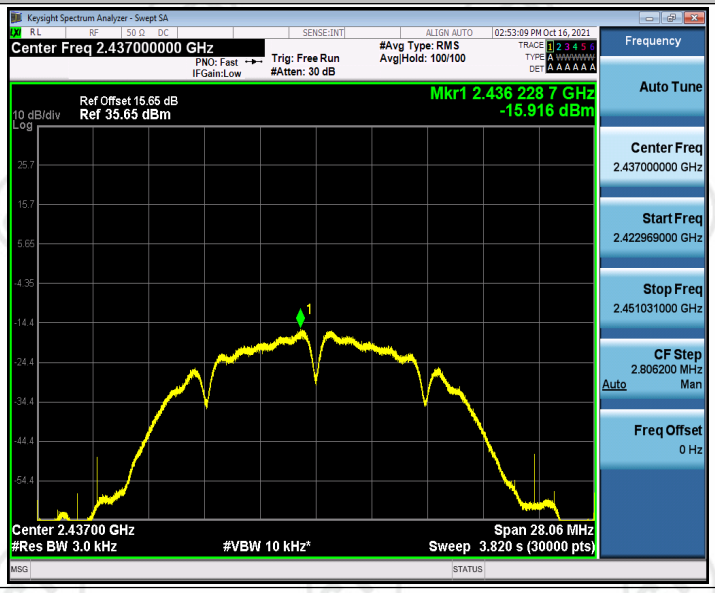
Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.51	<=8	PASS
		2437	-15.92	<=8	PASS
		2462	-16.16	<=8	PASS
11G	Ant1	2412	-19.46	<=8	PASS
		2437	-19.78	<=8	PASS
		2462	-19.95	<=8	PASS
11N20SISO	Ant1	2412	-19.68	<=8	PASS
		2437	-19.71	<=8	PASS
		2462	-20	<=8	PASS

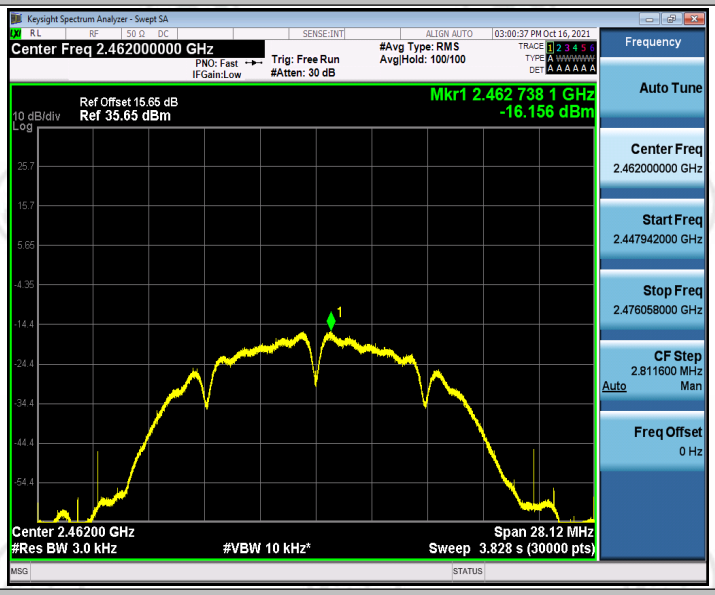
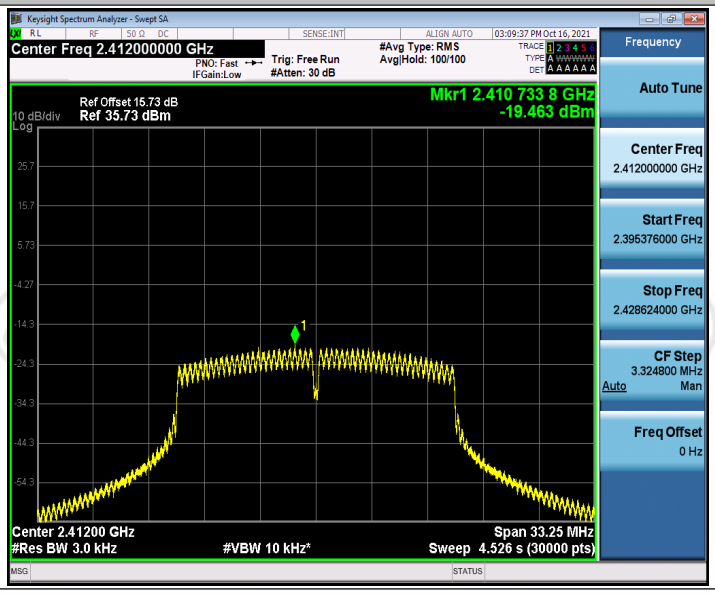
Test Graphs

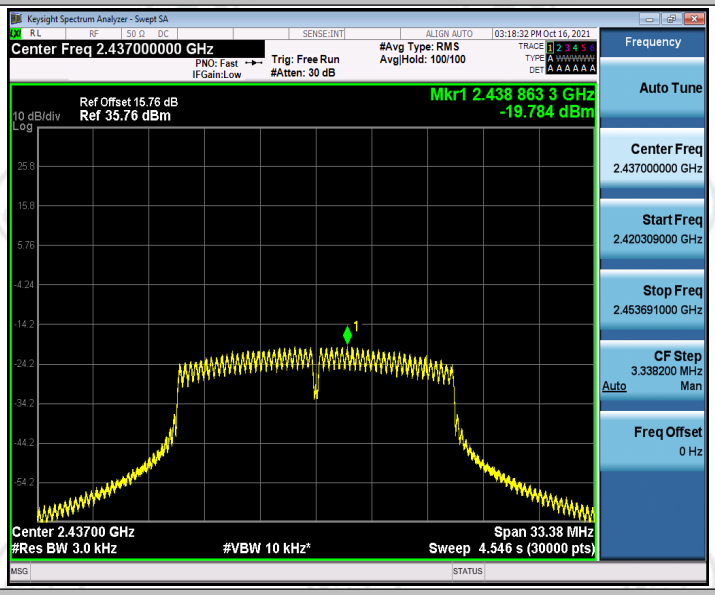
11B_Ant1_2412

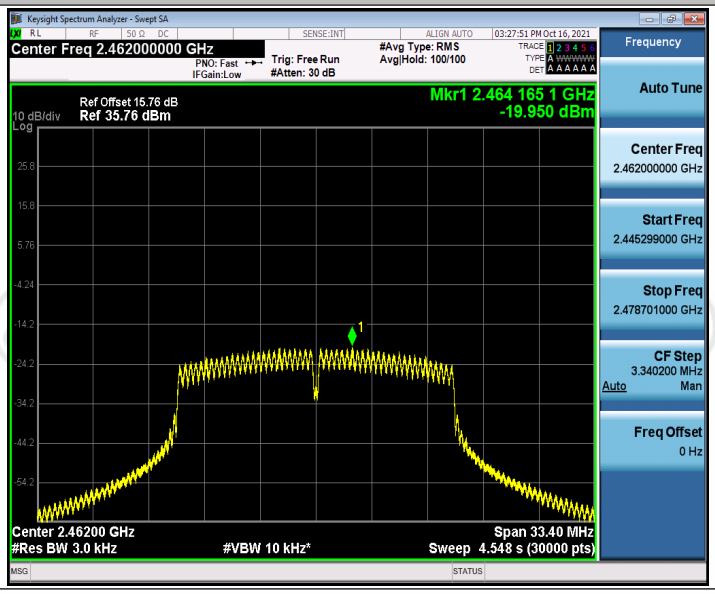


11B_Ant1_2437

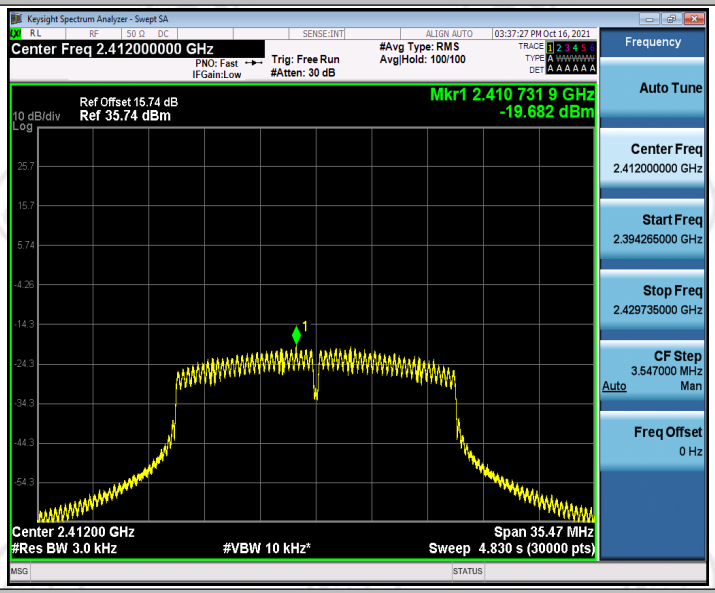


11B_Ant1_2462

11G_Ant1_2412


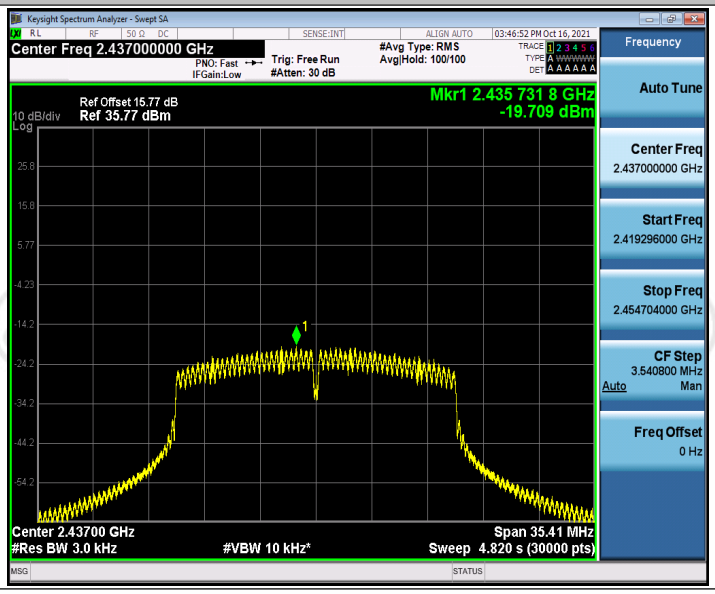
11G_Ant1_2437


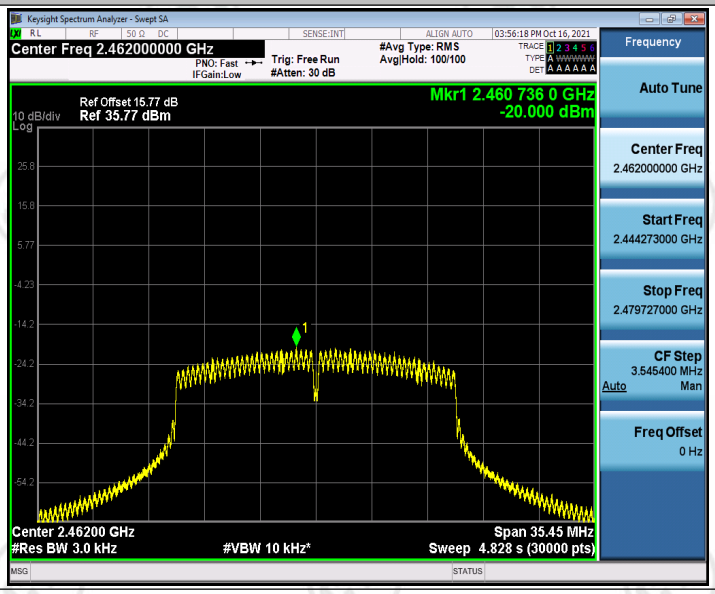
11G_Ant1_2462


11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462


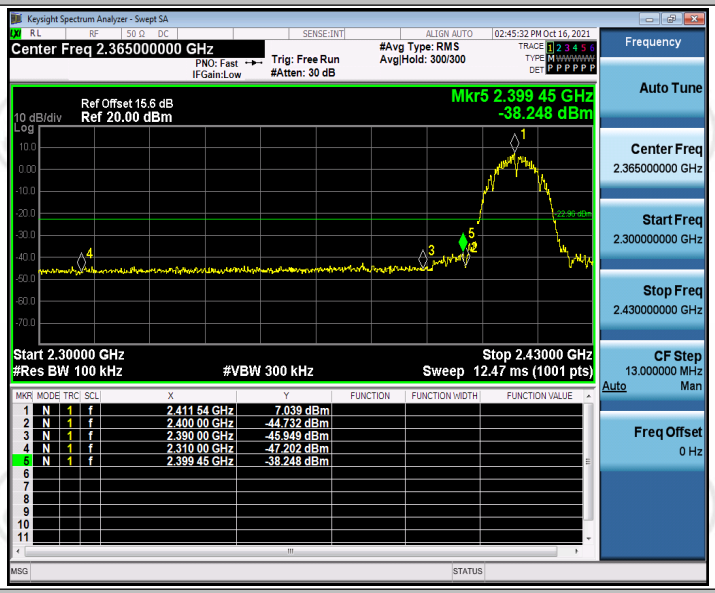
AppendixE:Band edge measurements

Test Result

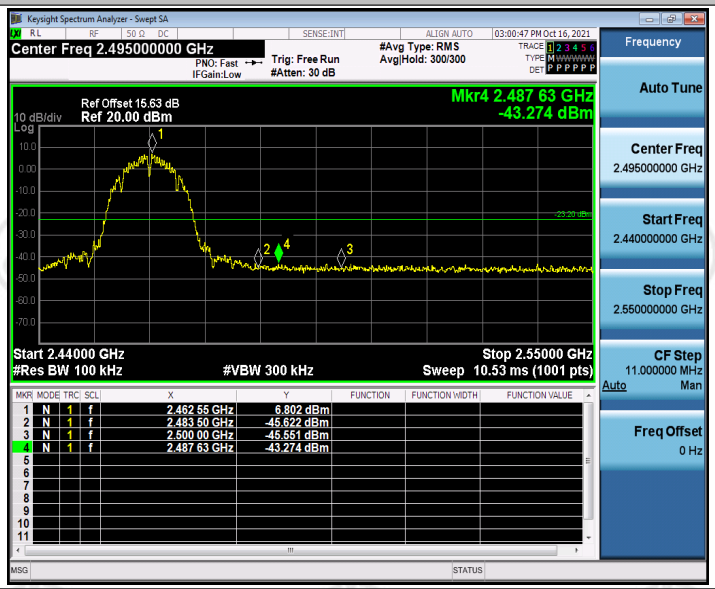
Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.04	-38.25	<=-22.96	PASS
		High	2462	6.80	-43.27	<=-23.2	PASS
11G	Ant1	Low	2412	2.65	-29.18	<=-27.35	PASS
		High	2462	2.31	-42.03	<=-27.69	PASS
11N20SISO	Ant1	Low	2412	2.47	-29.84	<=-27.53	PASS
		High	2462	2.88	-41.64	<=-27.12	PASS

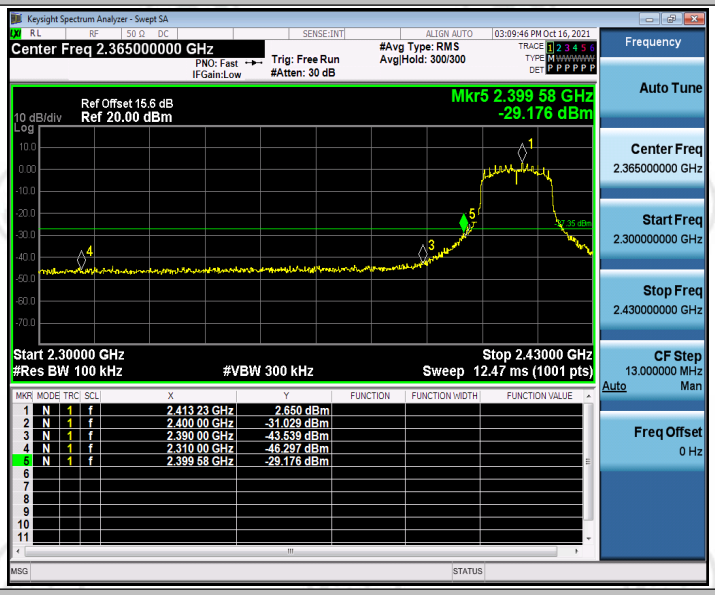
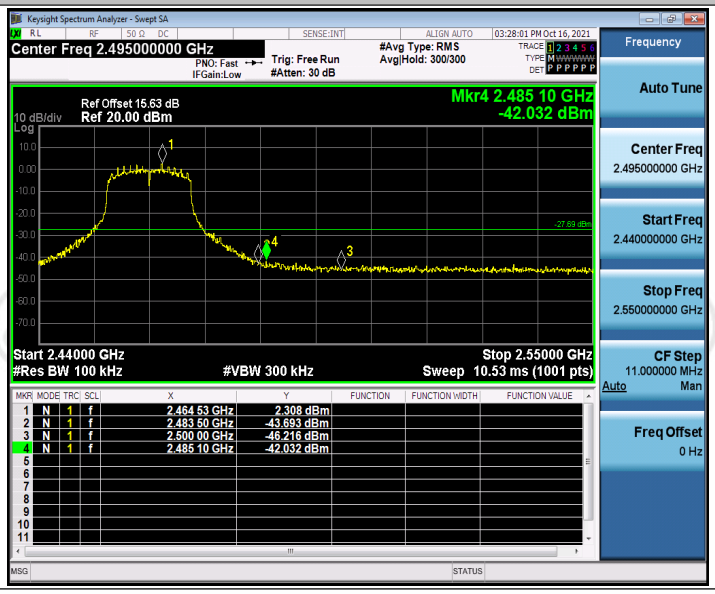
Test Graphs

11B_Ant1_Low_2412

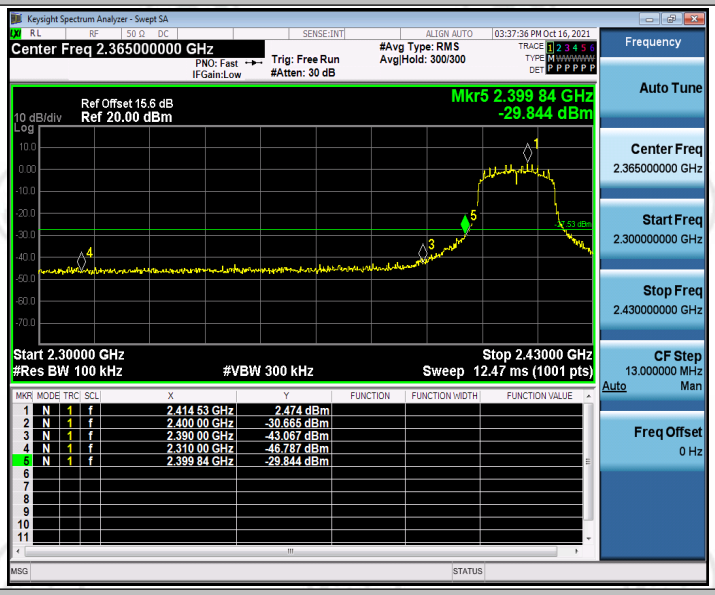
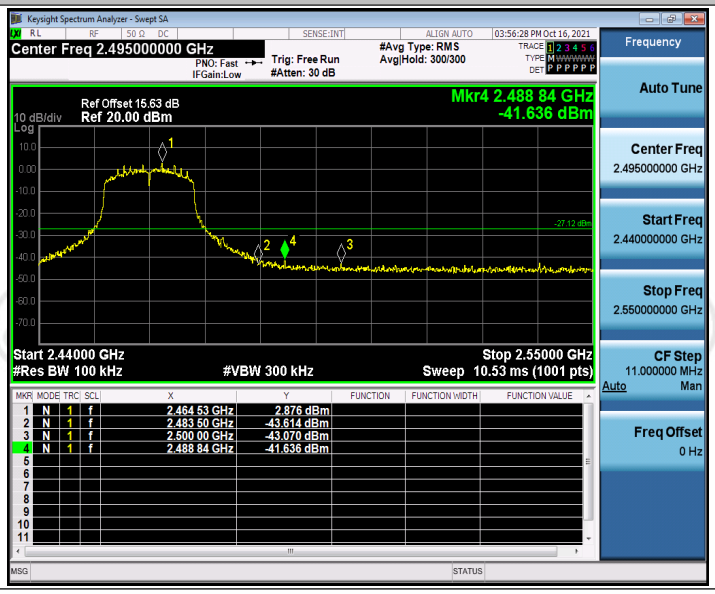


11B_Ant1_High_2462



11G_Ant1_Low_2412

11G_Ant1_High_2462


11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462