

Appendix Test Data for WLAN(2.4G) (Conducted Measurement)

Product Name: MP3

Trade Mark: MAIKELU

Test Model: M1

FCC ID: 2BABL-M1

Environmental Conditions

Temperature:	25.3℃
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

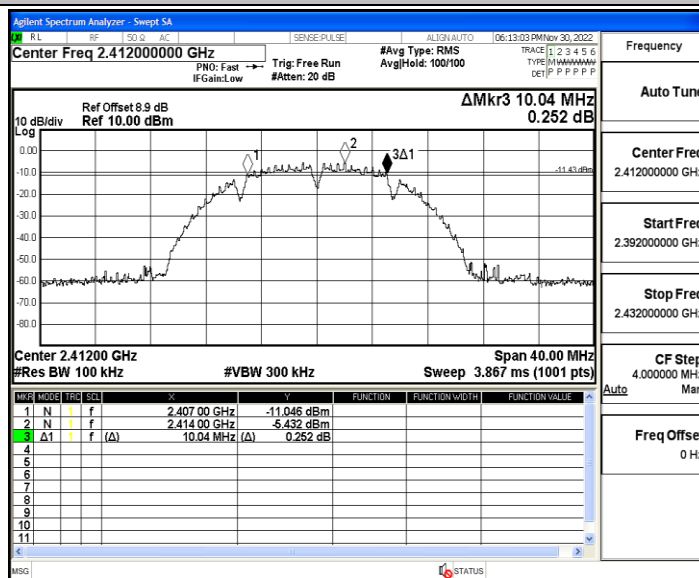
Appendix A: DTS Bandwidth

Test Result

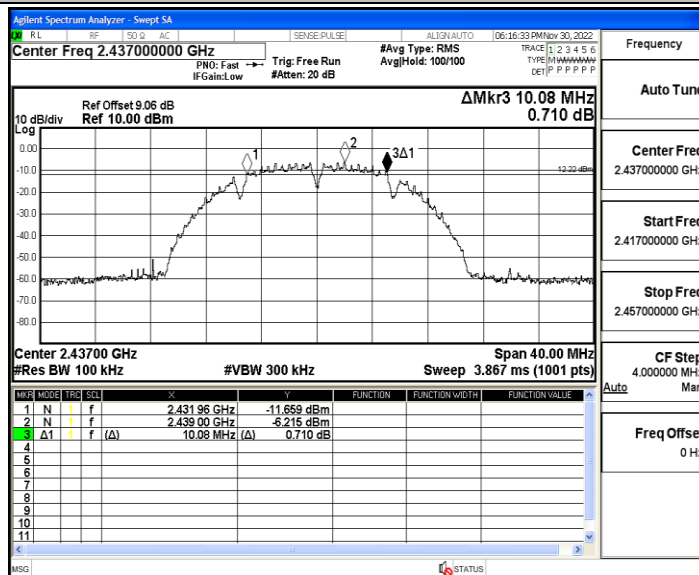
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2407.000	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.000	2457.000	2467.000	0.5	PASS
11G	Ant1	2412	15.480	2404.280	2419.760	0.5	PASS
		2437	16.040	2428.880	2444.920	0.5	PASS
		2462	16.280	2453.880	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.920	2403.520	2420.440	0.5	PASS
		2437	16.240	2429.160	2445.400	0.5	PASS
		2462	15.440	2454.440	2469.880	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.560	2439.600	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.120	2434.400	2469.520	0.5	PASS

Test Graphs

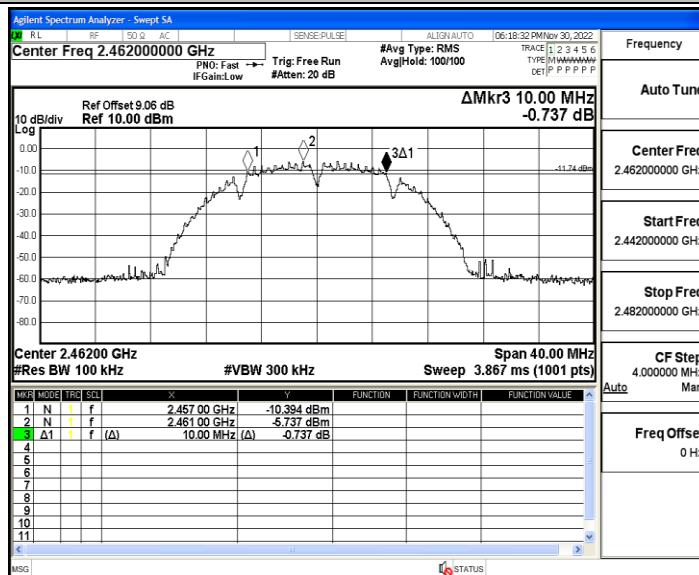
11B_Ant1_2412



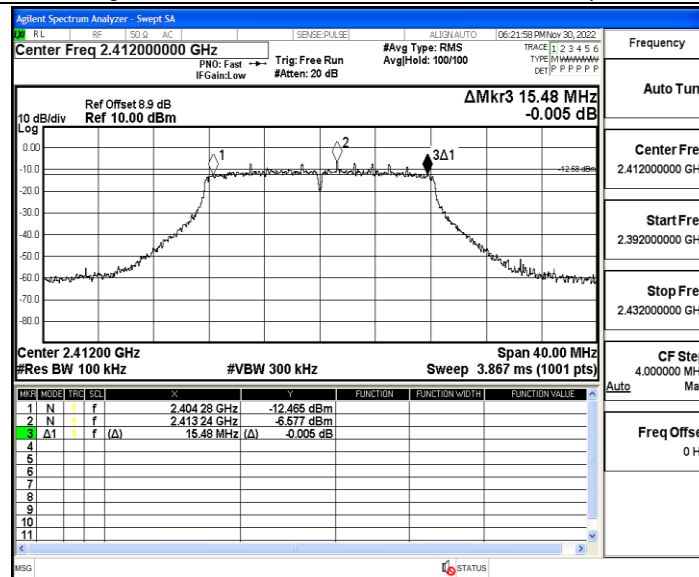
11B_Ant1_2437



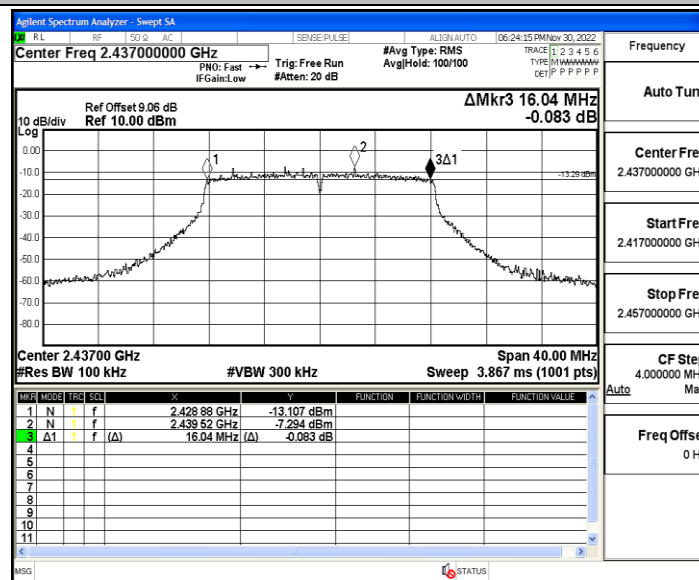
11B_Ant1_2462



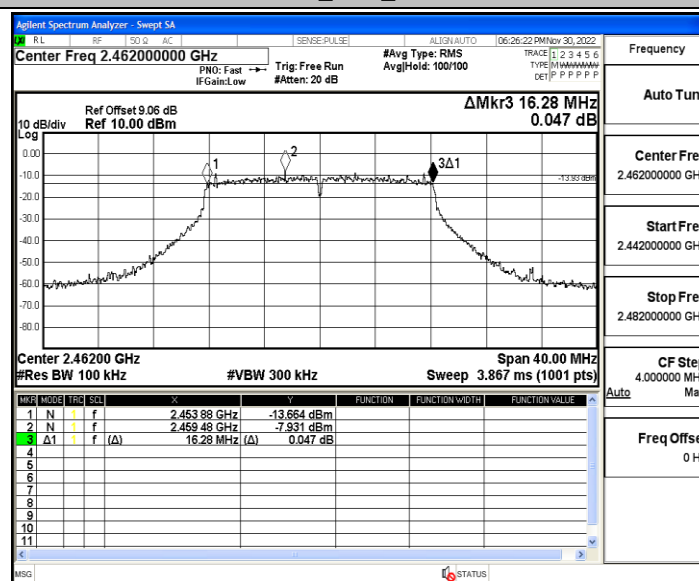
11G_Ant1_2412



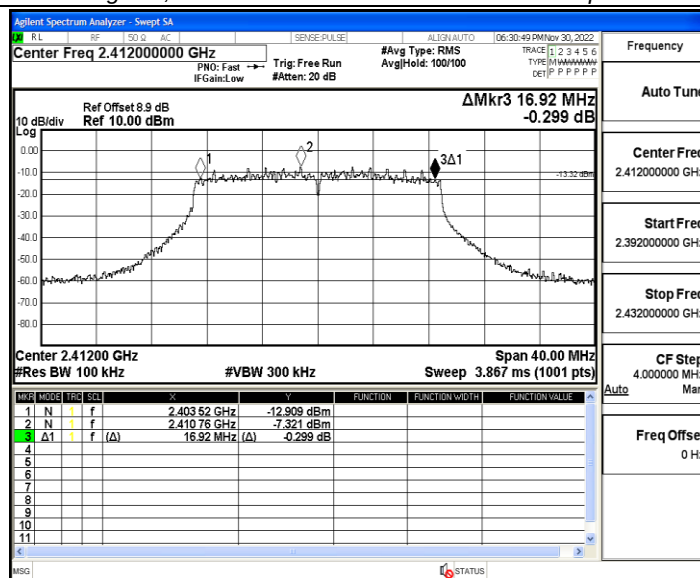
11G_Ant1_2437



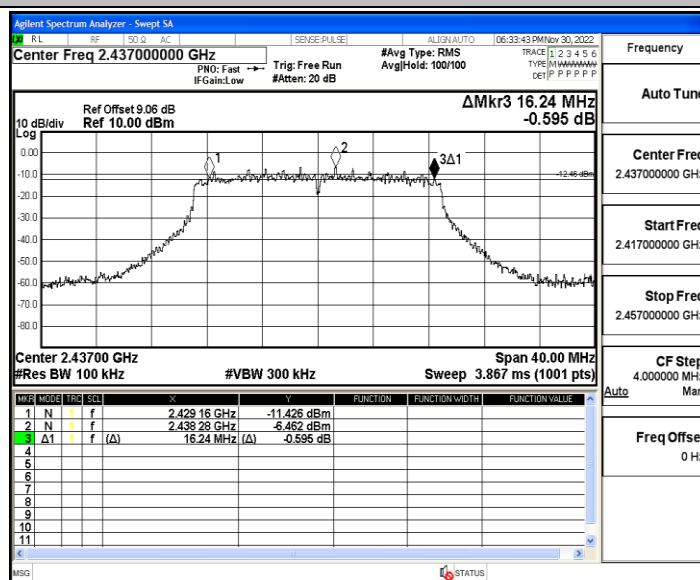
11G_Ant1_2462



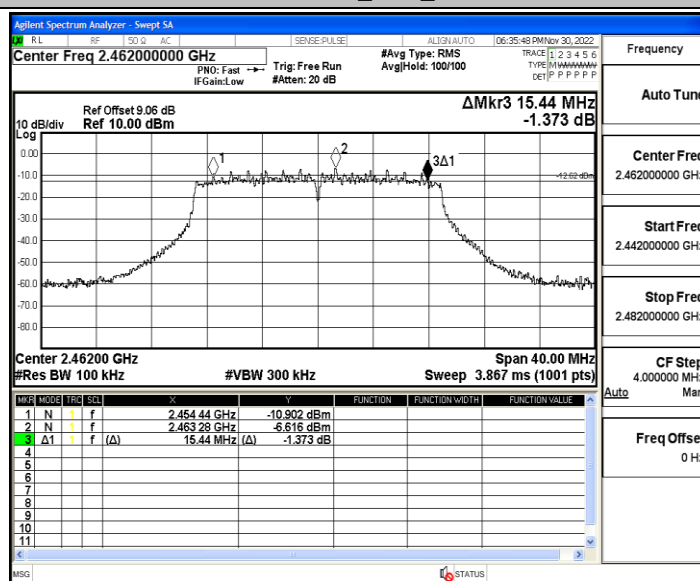
11N20SISO_Ant1_2412



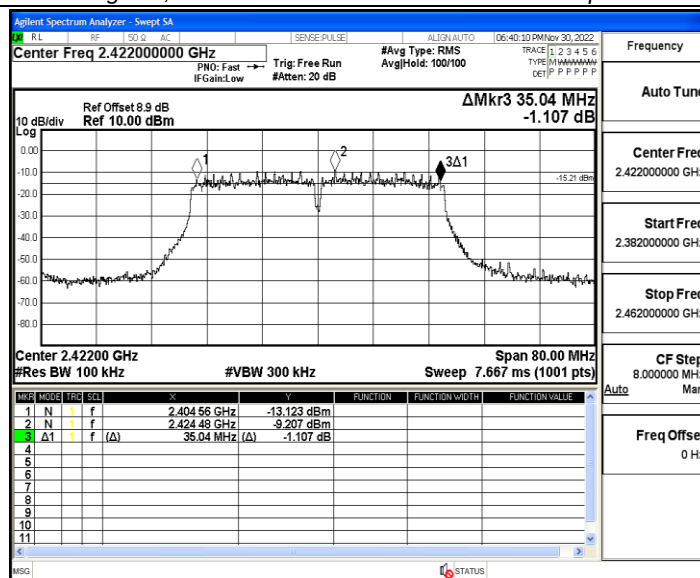
11N20SISO_Ant1_2437



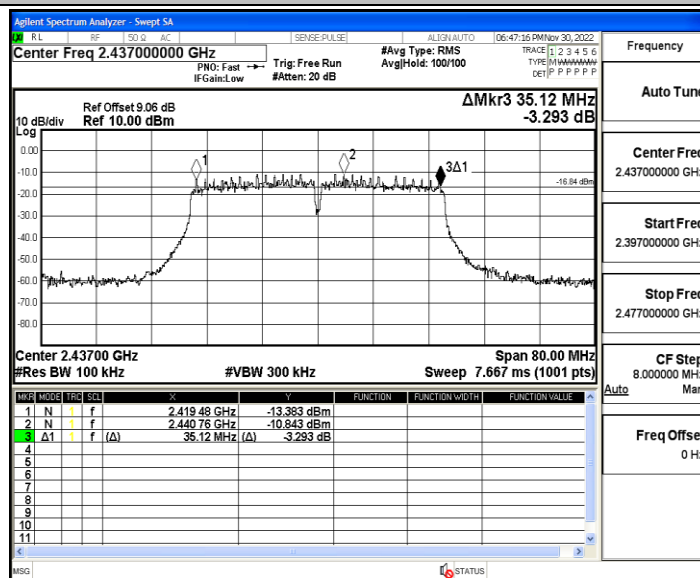
11N20SISO_Ant1_2462



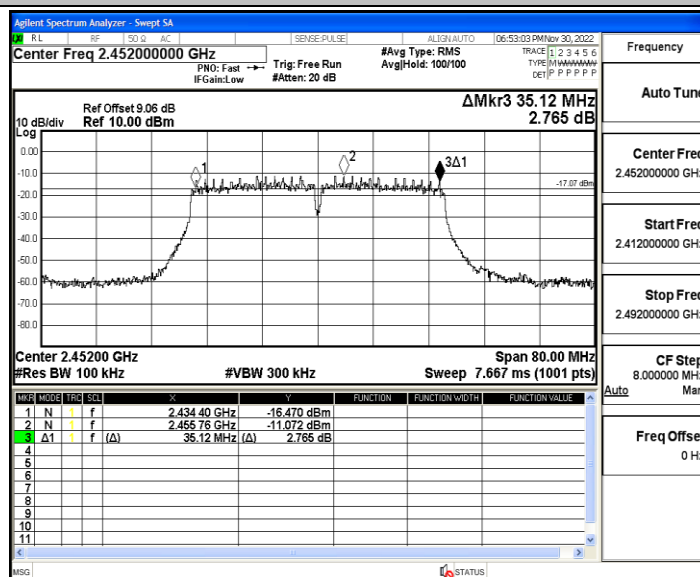
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



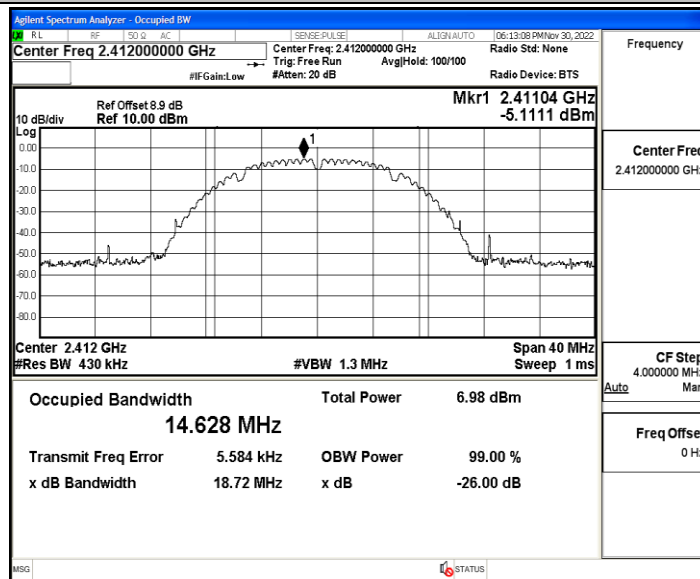
Appendix B: Occupied Channel Bandwidth

Test Result

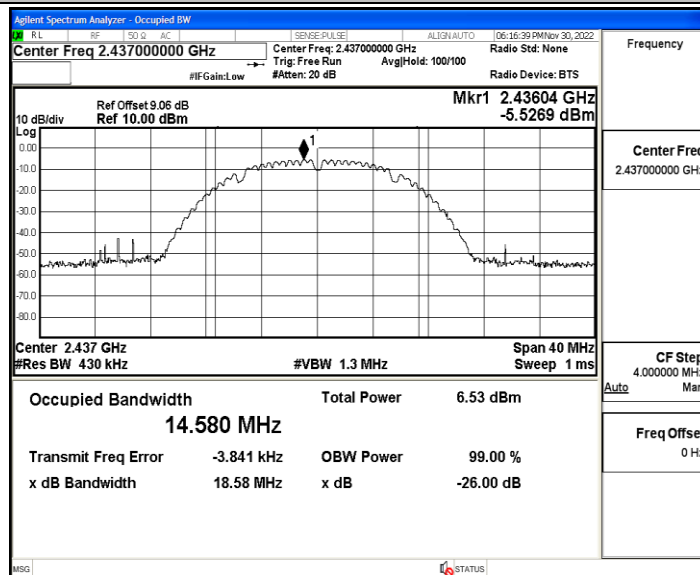
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.628	2404.6916	2419.3196	---	---
		2437	14.580	2429.7062	2444.2862	---	---
		2462	14.617	2454.7311	2469.3481	---	---
11G	Ant1	2412	16.803	2403.6601	2420.4631	---	---
		2437	16.685	2428.6580	2445.3430	---	---
		2462	16.725	2453.6888	2470.4138	---	---
11N20SISO	Ant1	2412	17.746	2403.1480	2420.8940	---	---
		2437	17.837	2428.1308	2445.9678	---	---
		2462	17.642	2453.2272	2470.8692	---	---
11N40SISO	Ant1	2422	36.227	2403.9406	2440.1676	---	---
		2437	36.115	2418.9929	2455.1079	---	---
		2452	36.244	2433.9262	2470.1702	---	---

Test Graphs

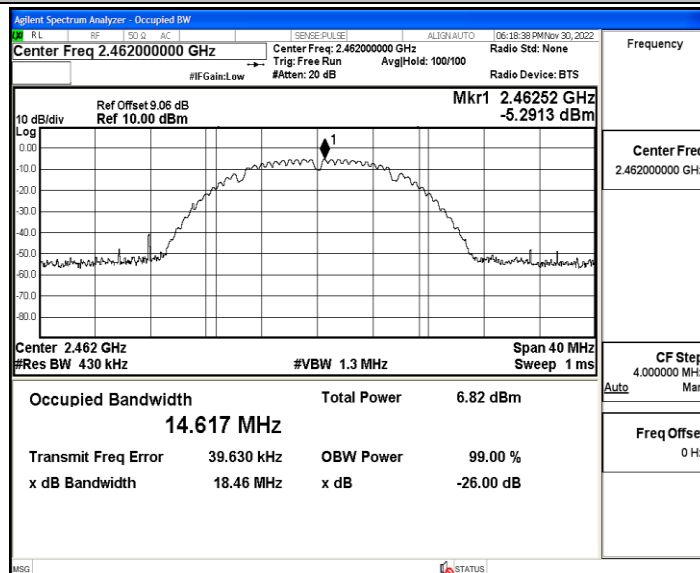
11B_Ant1_2412



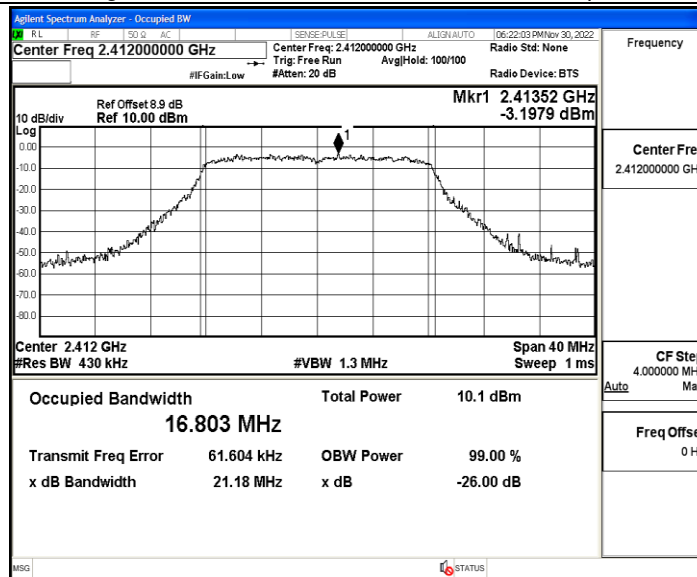
11B_Ant1_2437



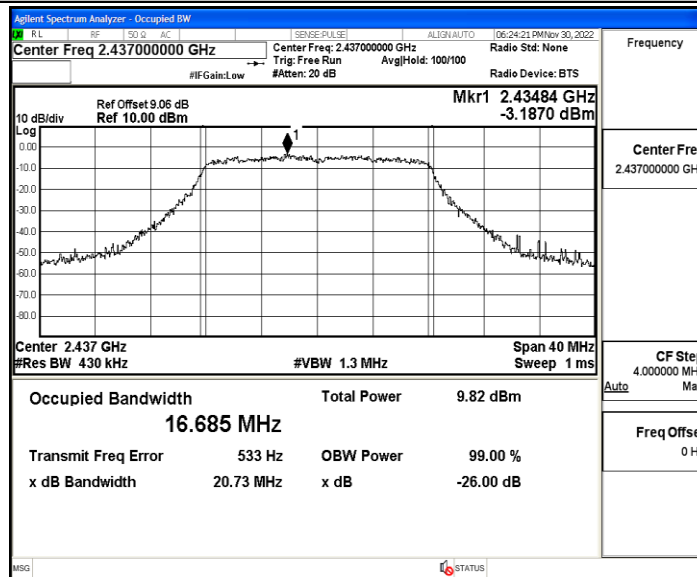
11B_Ant1_2462



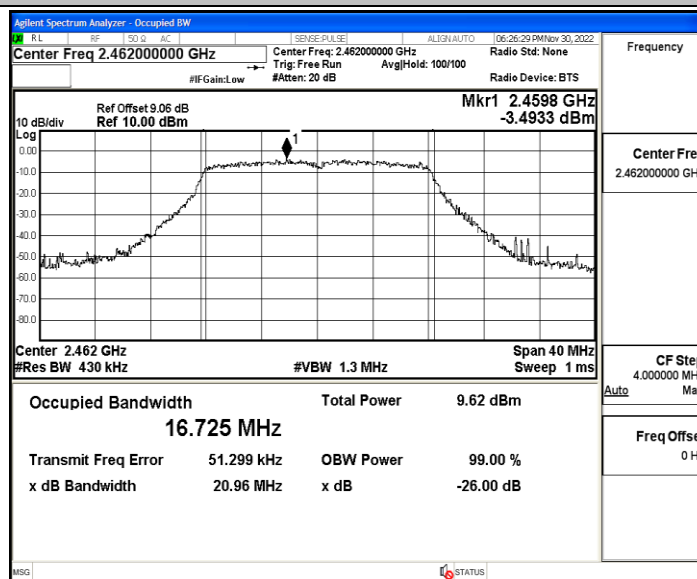
11G_Ant1_2412



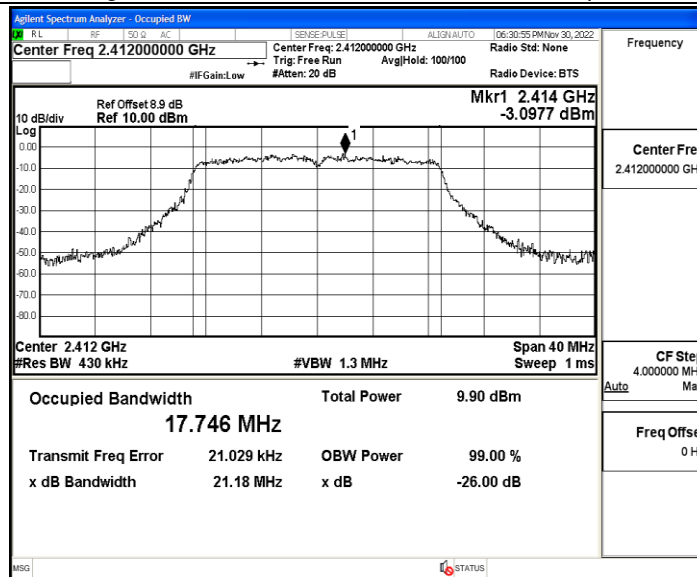
11G_Ant1_2437



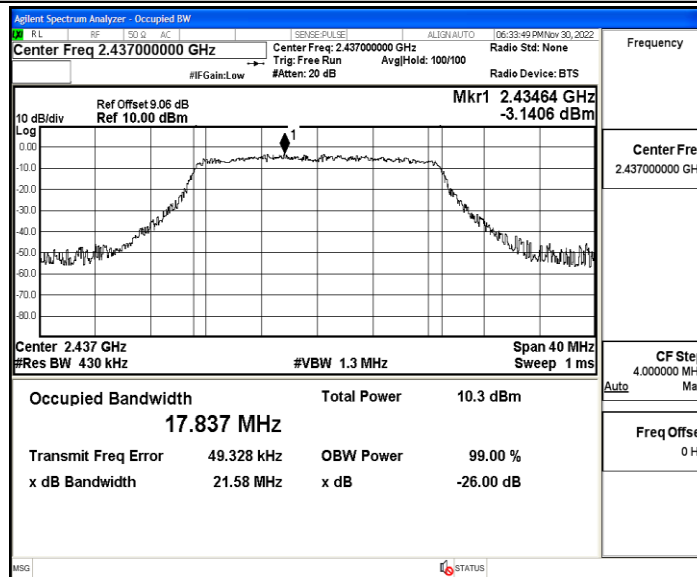
11G_Ant1_2462



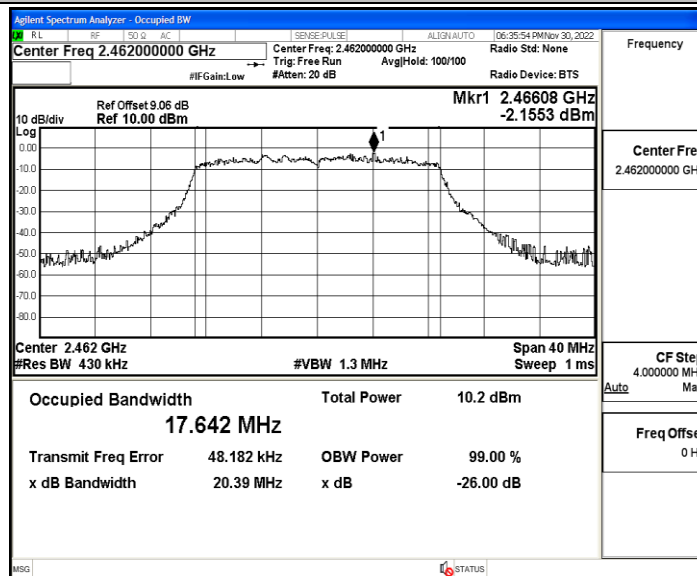
11N20SISO_Ant1_2412



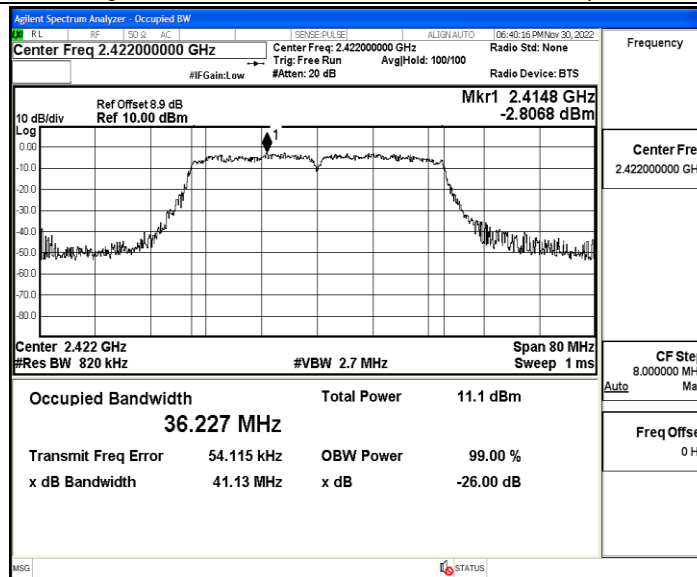
11N20SISO_Ant1_2437



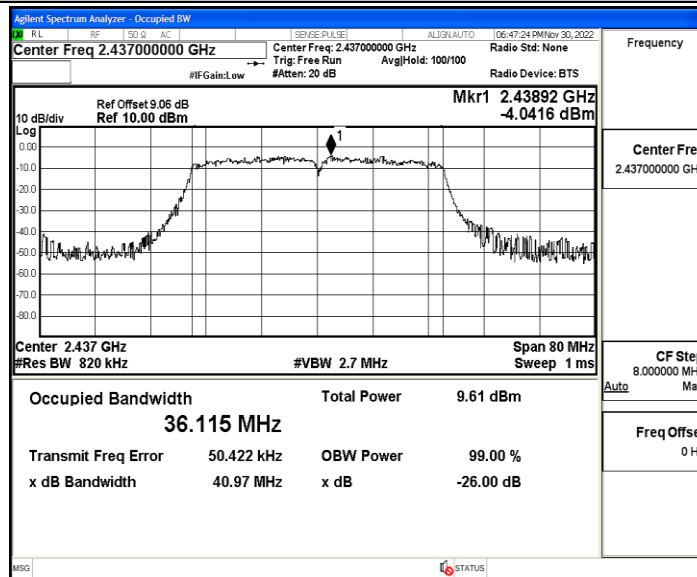
11N20SISO_Ant1_2462



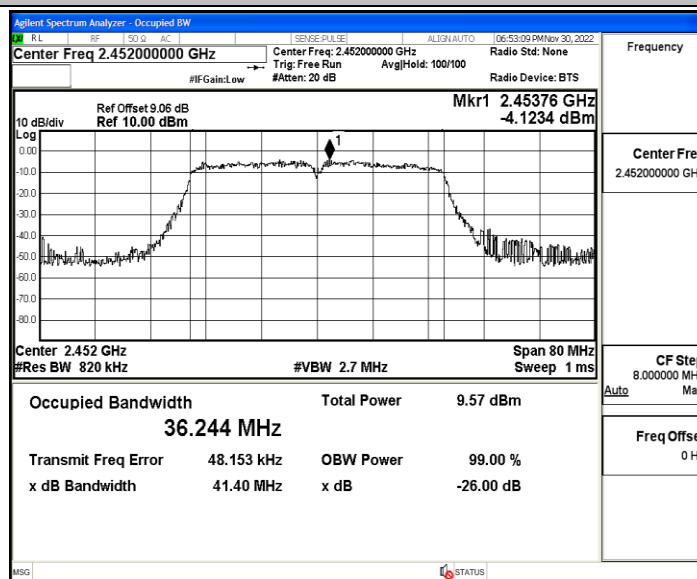
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	4.04	≤30.00	PASS
		2437	3.52	≤30.00	PASS
		2462	3.89	≤30.00	PASS
11G	Ant1	2412	4.28	≤30.00	PASS
		2437	3.98	≤30.00	PASS
		2462	3.77	≤30.00	PASS
11N20SISO	Ant1	2412	4.44	≤30.00	PASS
		2437	3.55	≤30.00	PASS
		2462	3.19	≤30.00	PASS
11N40SISO	Ant1	2422	3.58	≤30.00	PASS
		2437	3.66	≤30.00	PASS
		2452	3.81	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the test result.

Appendix D: Maximum power spectral density

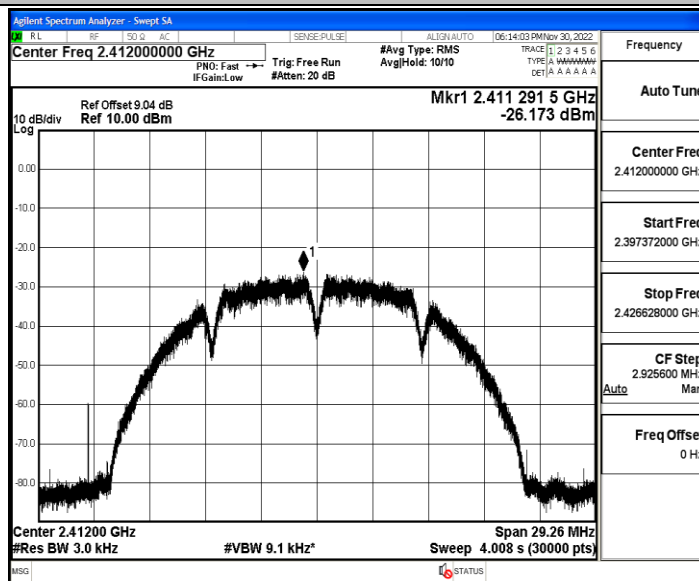
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-26.17	≤8.00	PASS
		2437	-27.24	≤8.00	PASS
		2462	-26.66	≤8.00	PASS
11G	Ant1	2412	-25.85	≤8.00	PASS
		2437	-25.64	≤8.00	PASS
		2462	-26.37	≤8.00	PASS
11N20SISO	Ant1	2412	-22.73	≤8.00	PASS
		2437	-23.3	≤8.00	PASS
		2462	-22.98	≤8.00	PASS
11N40SISO	Ant1	2422	-25.55	≤8.00	PASS
		2437	-24.97	≤8.00	PASS
		2452	-26.08	≤8.00	PASS

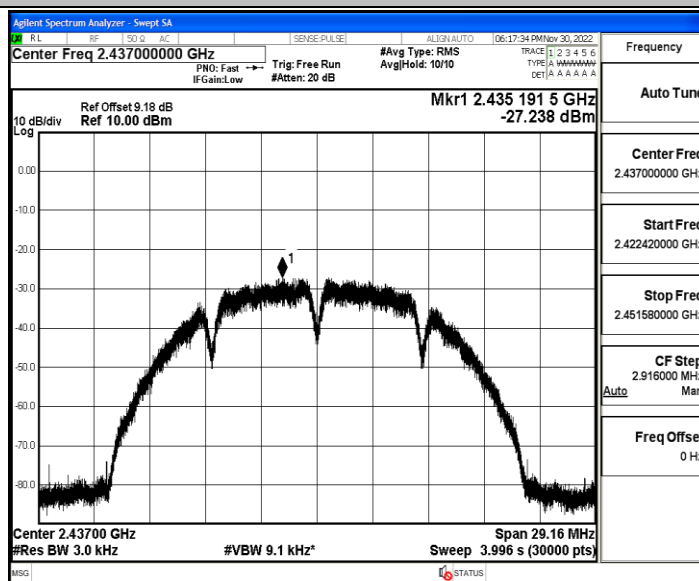
Note: The Duty Cycle Factor is compensated in the test result.

Test Graphs

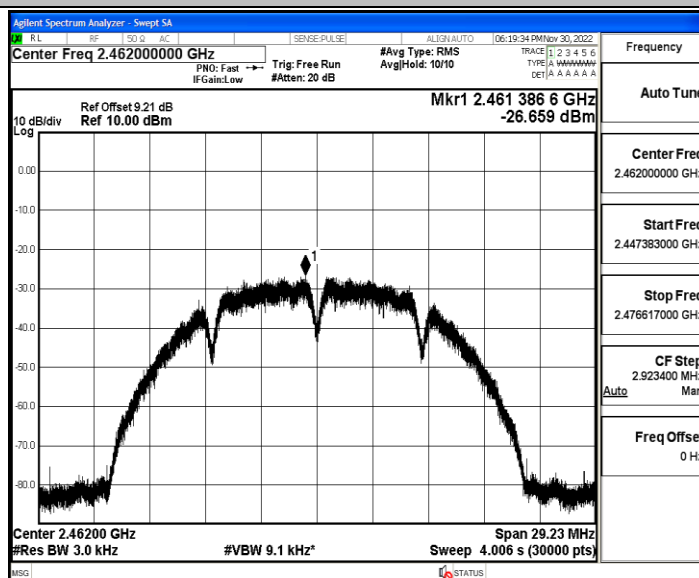
11B_Ant1_2412



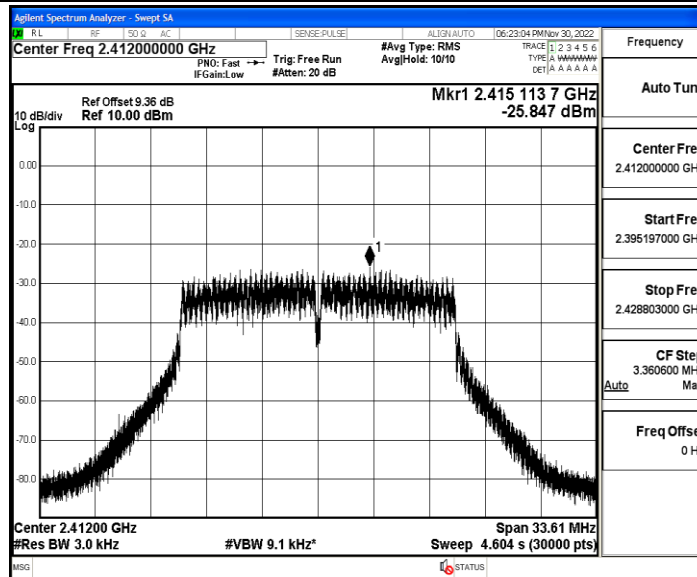
11B_Ant1_2437



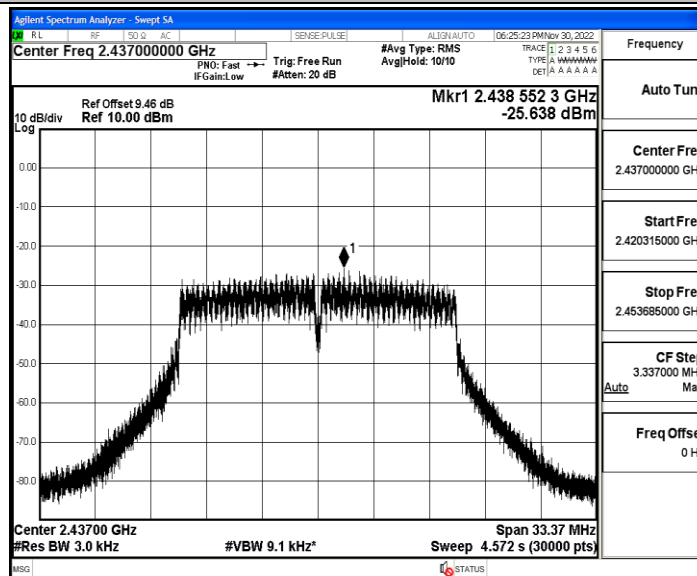
11B_Ant1_2462



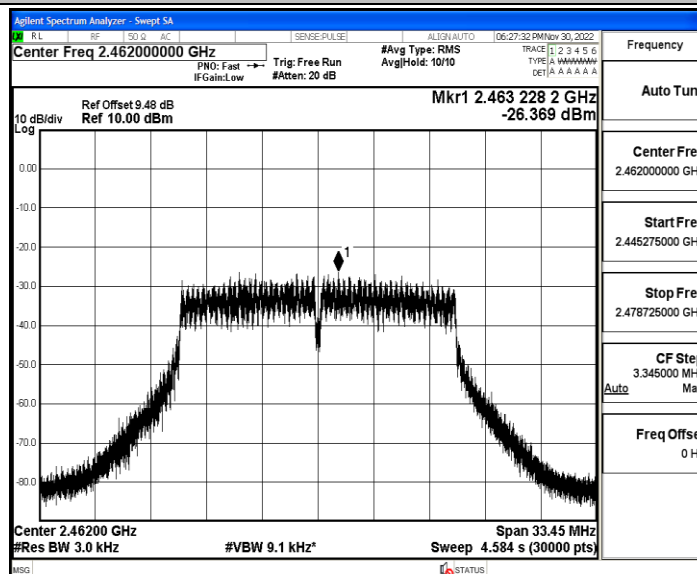
11G_Ant1_2412



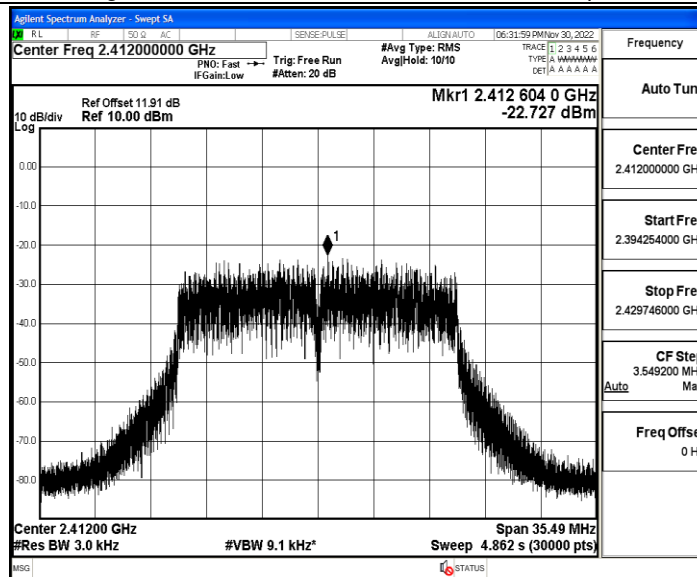
11G_Ant1_2437



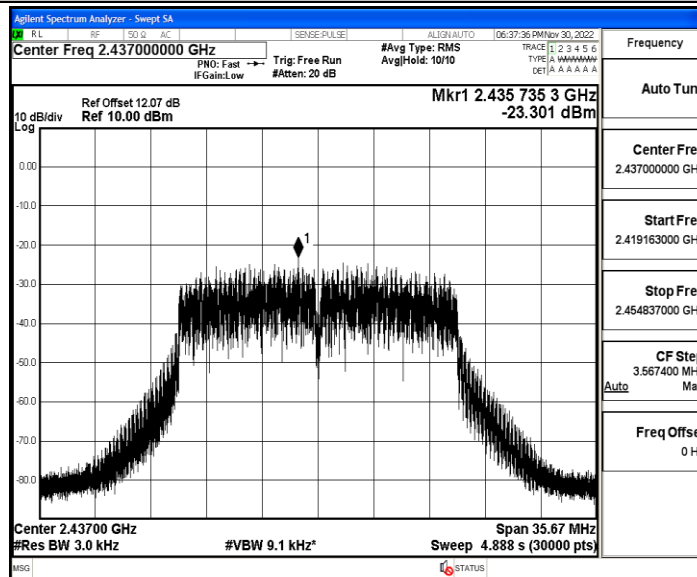
11G_Ant1_2462



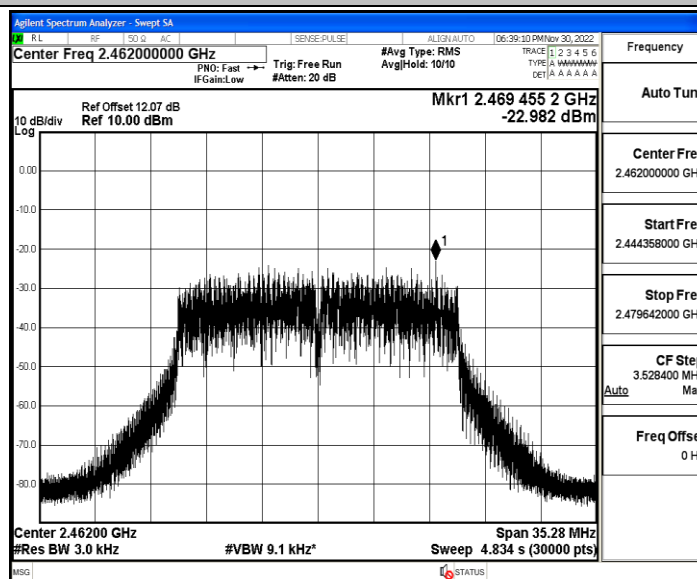
11N20SISO_Ant1_2412



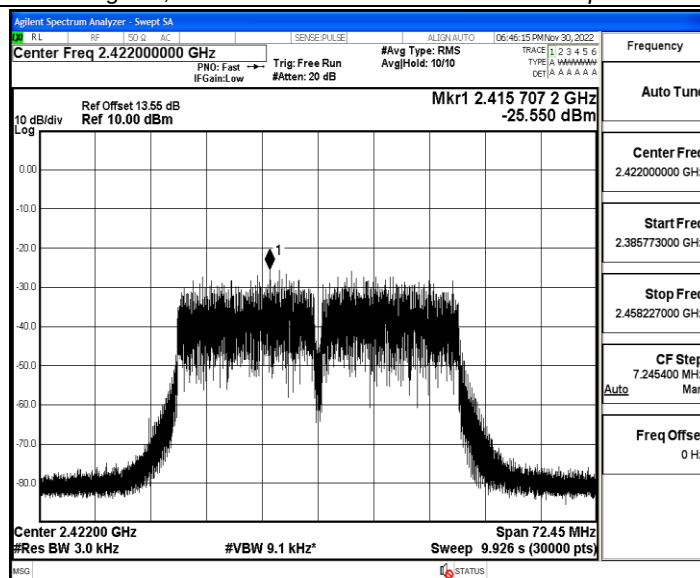
11N20SISO_Ant1_2437



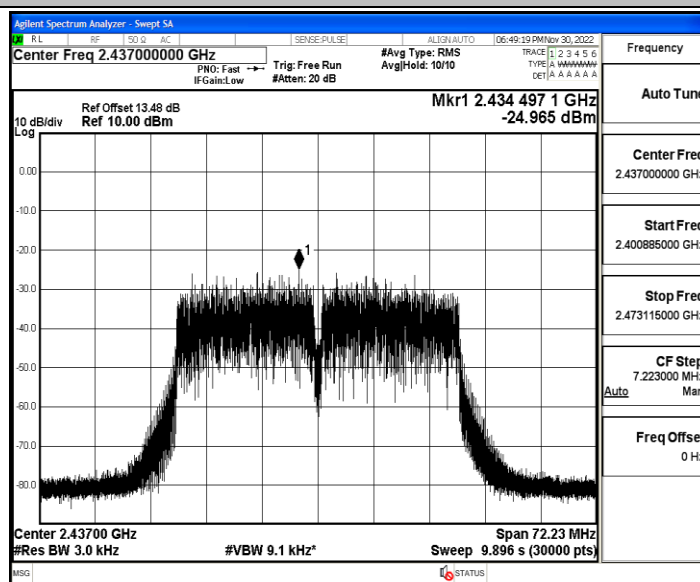
11N20SISO_Ant1_2462



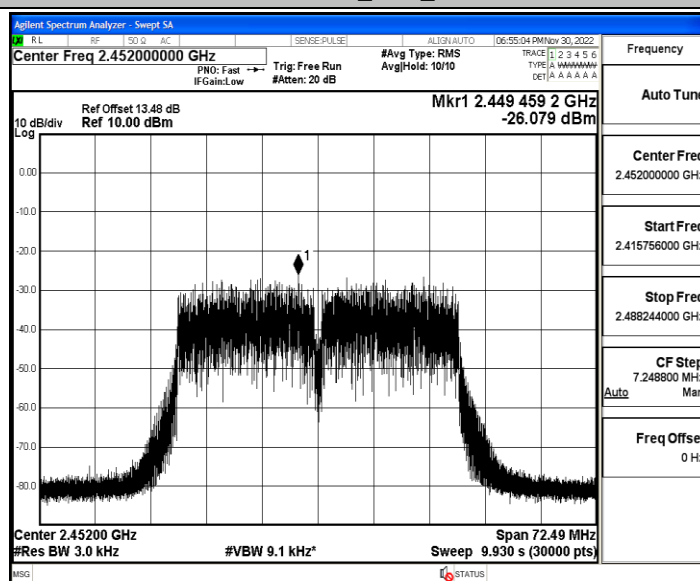
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



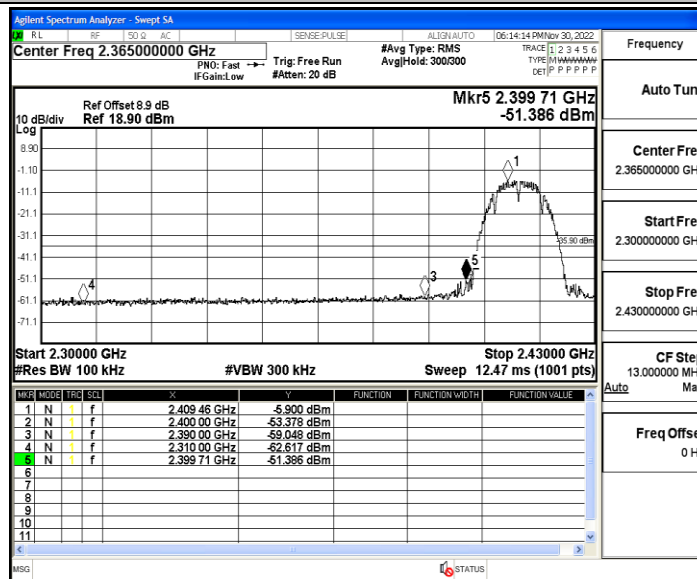
Appendix E: Band edge measurements

Test Result

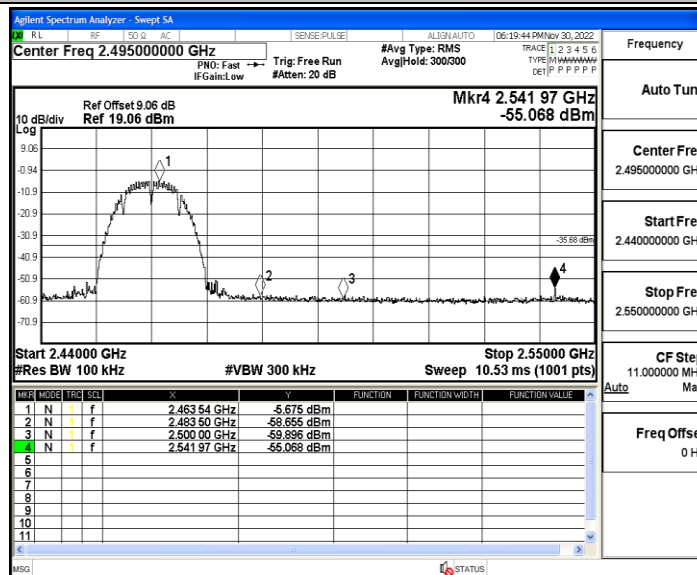
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-5.90	-51.39	≤ -35.9	PASS
		High	2462	-5.68	-55.07	≤ -35.68	PASS
11G	Ant1	Low	2412	-6.45	-45.5	≤ -36.45	PASS
		High	2462	-7.23	-57.96	≤ -37.23	PASS
11N20SISO	Ant1	Low	2412	-7.26	-45.36	≤ -37.26	PASS
		High	2462	-7.95	-56.47	≤ -37.95	PASS
11N40SISO	Ant1	Low	2422	-11.14	-50.07	≤ -41.14	PASS
		High	2452	-11.05	-56.11	≤ -41.05	PASS

Test Graphs

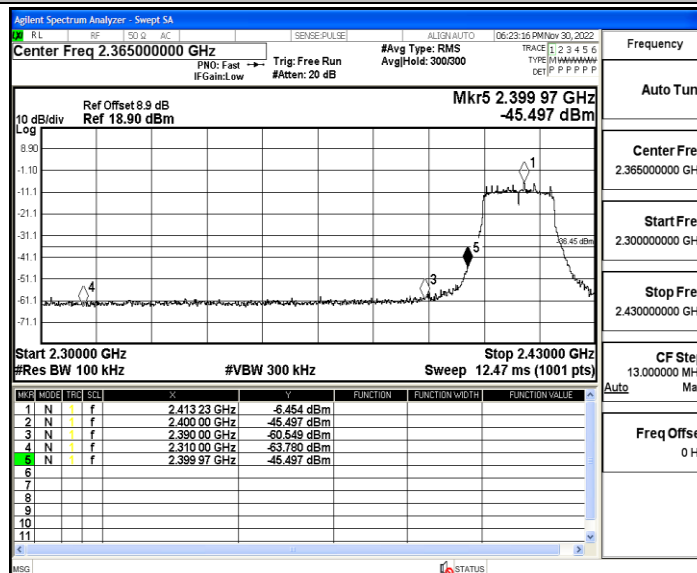
11B_Ant1_Low_2412



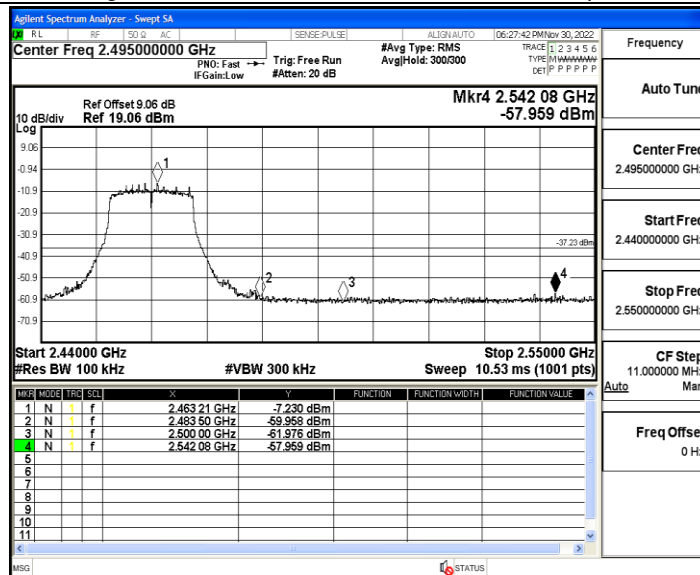
11B_Ant1_High_2462



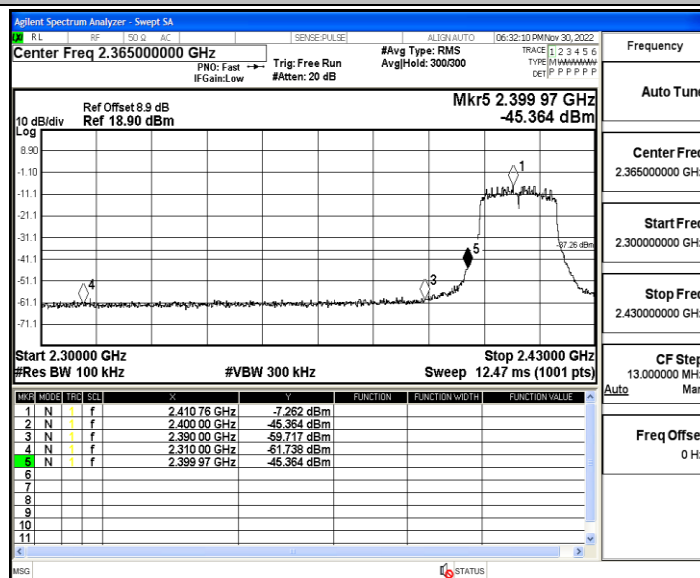
11G_Ant1_Low_2412



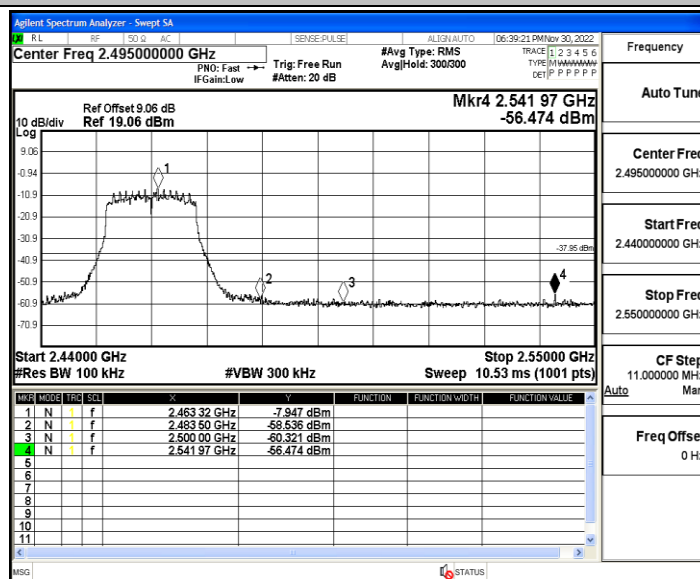
11G_Ant1_High_2462



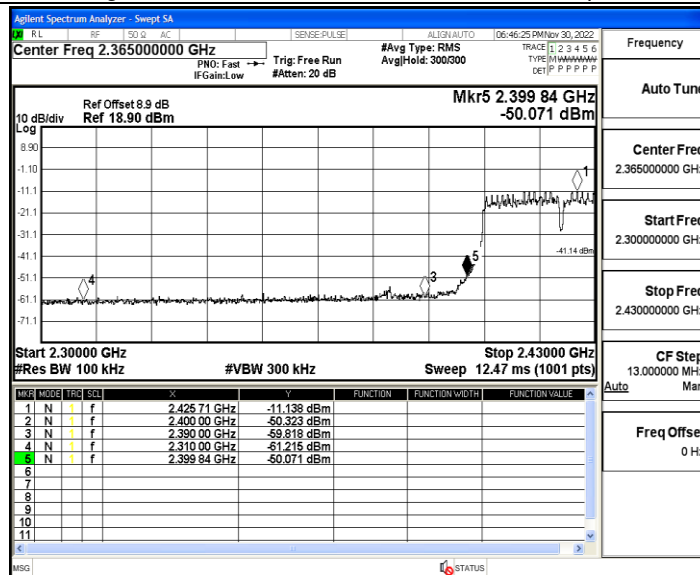
11N20SISO_Ant1_Low_2412



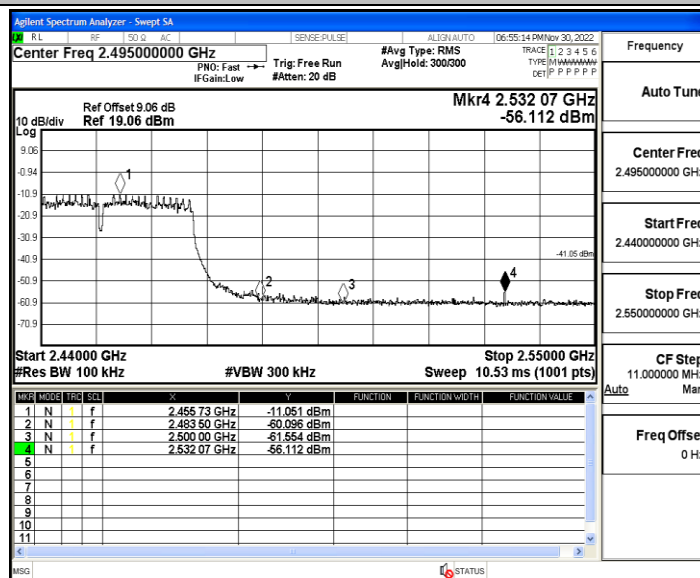
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



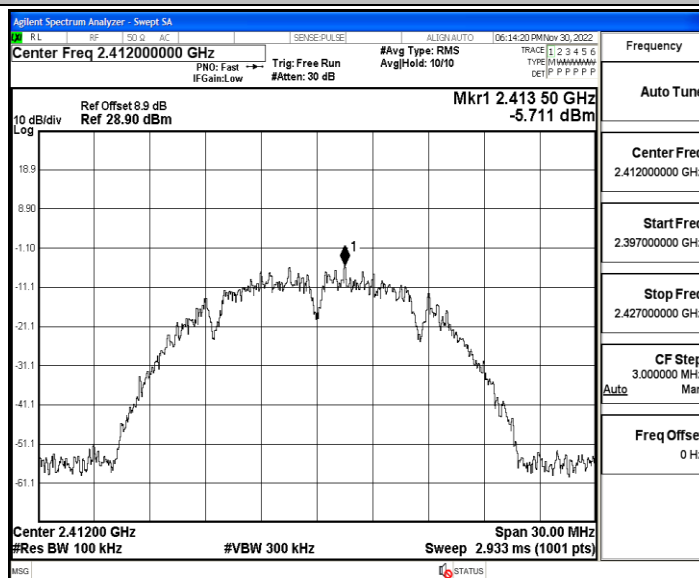
Appendix F: Conducted Spurious Emission

Test Result

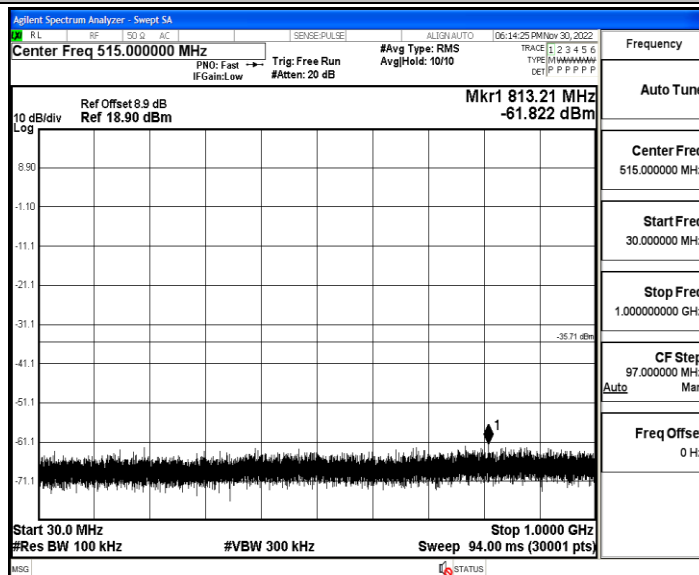
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-5.71	-5.71	---	PASS
			30~1000	-5.71	-61.82	≤-35.71	PASS
			1000~26500	-5.71	-51.5	≤-35.71	PASS
		2437	Reference	-7.28	-7.28	---	PASS
			30~1000	-7.28	-61.73	≤-37.28	PASS
			1000~26500	-7.28	-52.29	≤-37.28	PASS
		2462	Reference	-7.19	-7.19	---	PASS
			30~1000	-7.19	-61.02	≤-37.19	PASS
			1000~26500	-7.19	-51.41	≤-37.19	PASS
11G	Ant1	2412	Reference	-7.72	-7.72	---	PASS
			30~1000	-7.72	-61.98	≤-37.72	PASS
			1000~26500	-7.72	-51.41	≤-37.72	PASS
		2437	Reference	-10.85	-10.85	---	PASS
			30~1000	-10.85	-61.2	≤-40.85	PASS
			1000~26500	-10.85	-49.92	≤-40.85	PASS
		2462	Reference	-10.62	-10.62	---	PASS
			30~1000	-10.62	-61.95	≤-40.62	PASS
			1000~26500	-10.62	-51.56	≤-40.62	PASS
11N20SISO	Ant1	2412	Reference	-7.29	-7.29	---	PASS
			30~1000	-7.29	-62.28	≤-37.29	PASS
			1000~26500	-7.29	-51.86	≤-37.29	PASS
		2437	Reference	-8.59	-8.59	---	PASS
			30~1000	-8.59	-61.3	≤-38.59	PASS
			1000~26500	-8.59	-51.77	≤-38.59	PASS
		2462	Reference	-8.94	-8.94	---	PASS
			30~1000	-8.94	-61.39	≤-38.94	PASS
			1000~26500	-8.94	-51.92	≤-38.94	PASS
11N40SISO	Ant1	2422	Reference	-12.33	-12.33	---	PASS
			30~1000	-12.33	-61.49	≤-42.33	PASS
			1000~26500	-12.33	-52.24	≤-42.33	PASS
		2437	Reference	-10.91	-10.91	---	PASS
			30~1000	-10.91	-60.67	≤-40.91	PASS
			1000~26500	-10.91	-51.26	≤-40.91	PASS
		2452	Reference	-11.33	-11.33	---	PASS
			30~1000	-11.33	-61.27	≤-41.33	PASS
			1000~26500	-11.33	-51.52	≤-41.33	PASS

Test Graphs

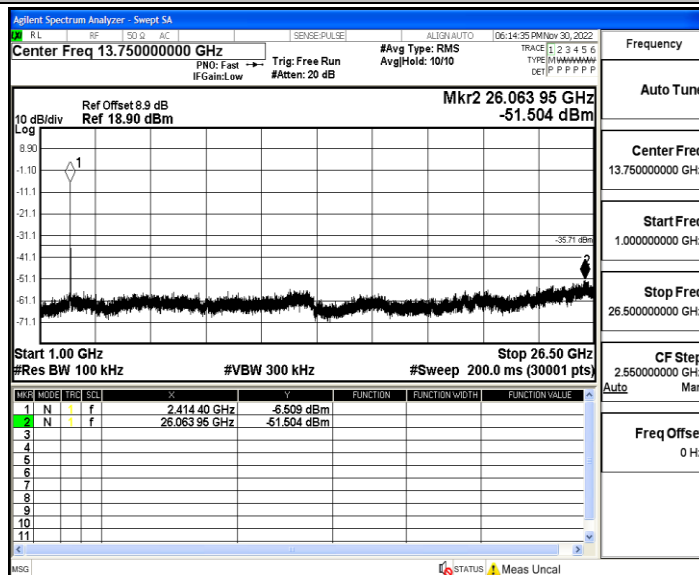
11B_Ant1_2412_0~Reference



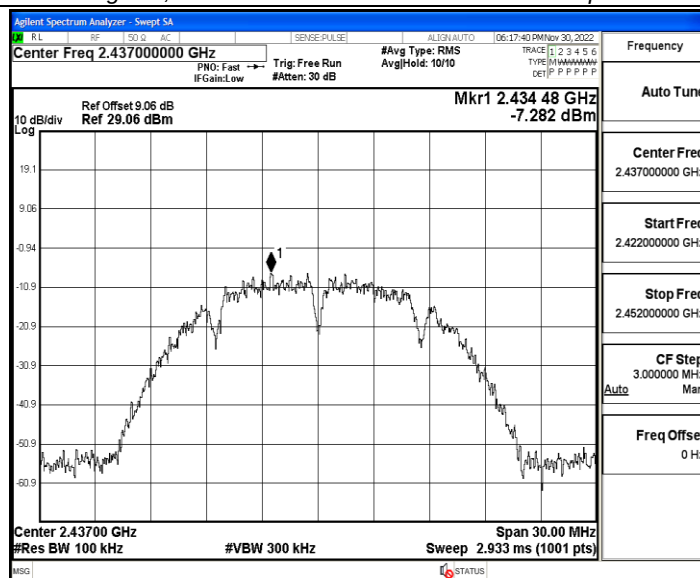
11B_Ant1_2412_30~1000



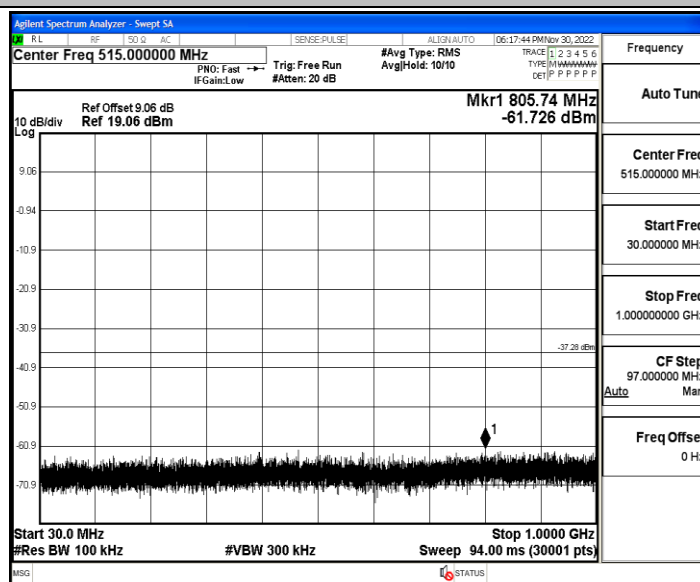
11B_Ant1_2412_1000~26500



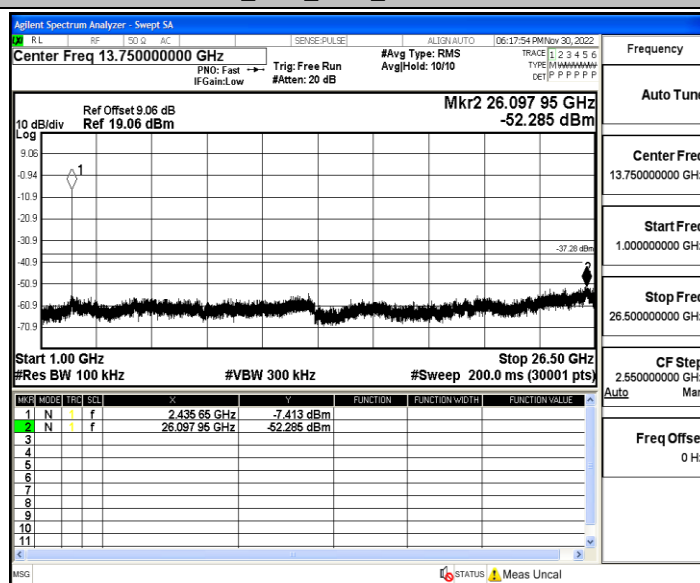
11B_Ant1_2437_0~Reference



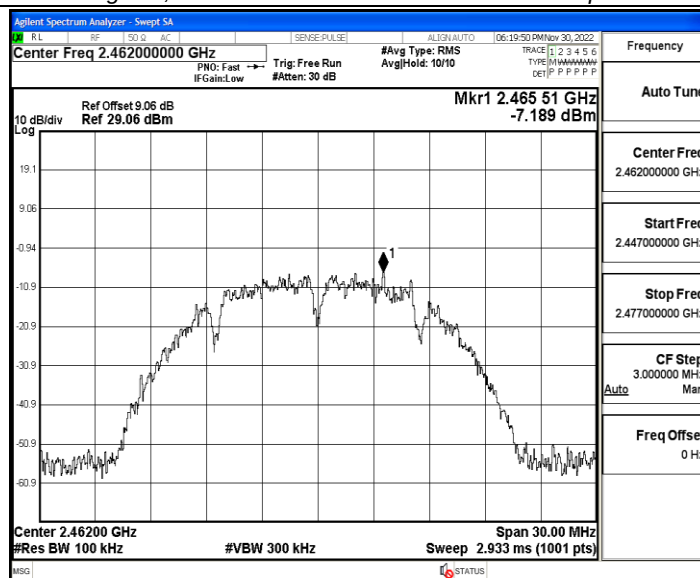
11B_Ant1_2437_30~1000



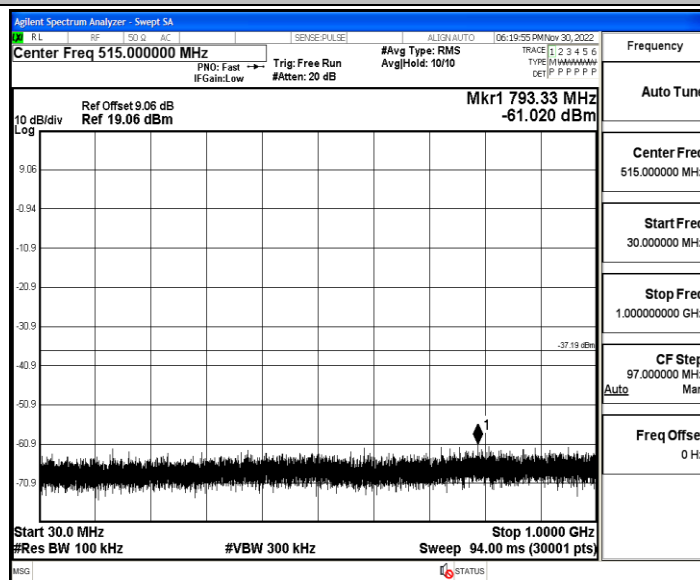
11B_Ant1_2437_1000~26500



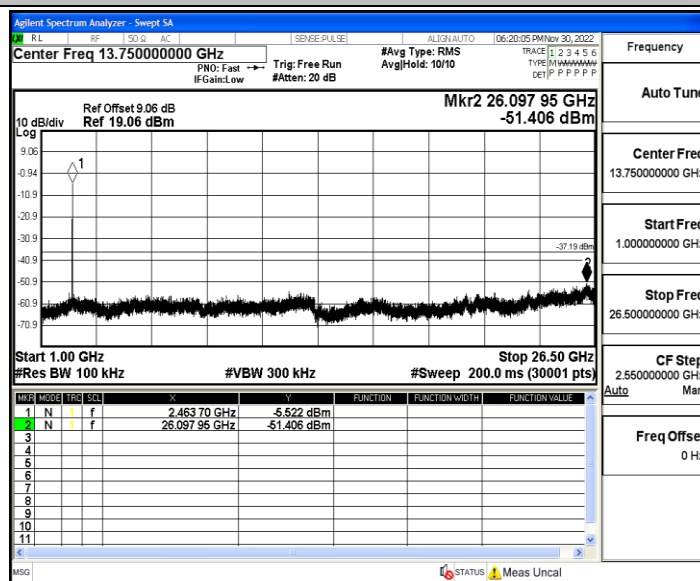
11B_Ant1_2462_0~Reference



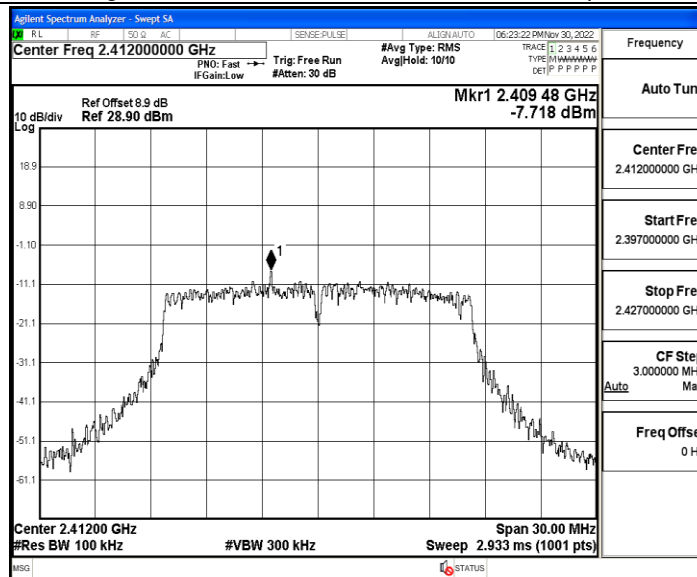
11B_Ant1_2462_30~1000



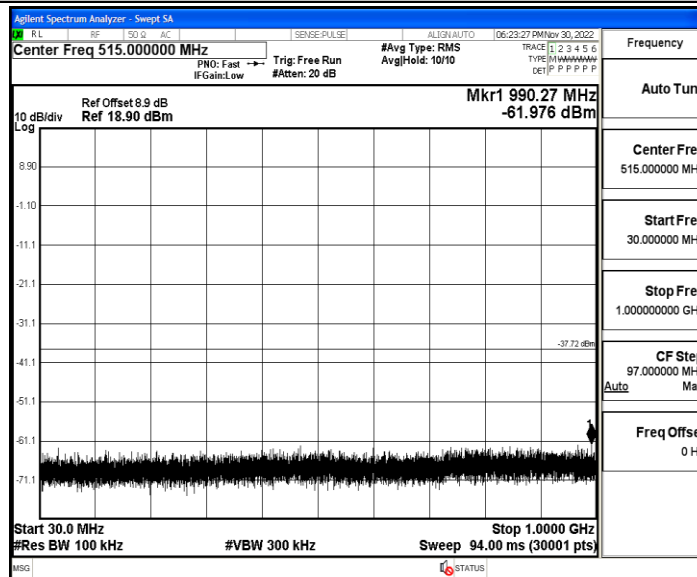
11B_Ant1_2462_1000~26500



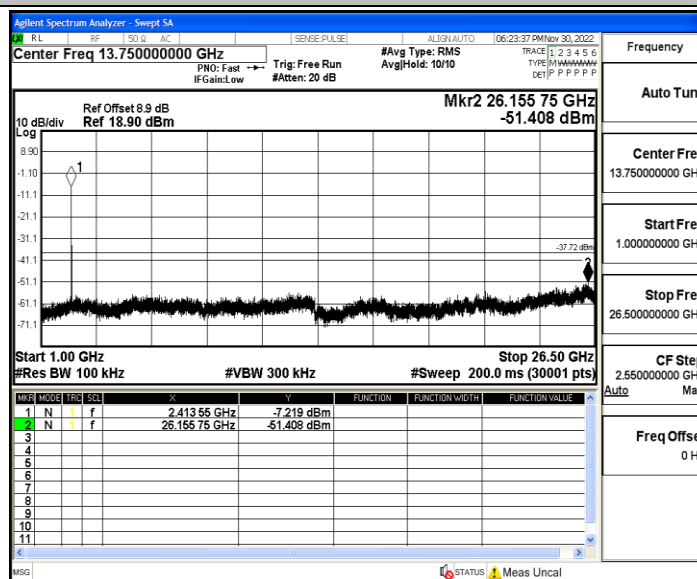
11G_Ant1_2412_0~Reference



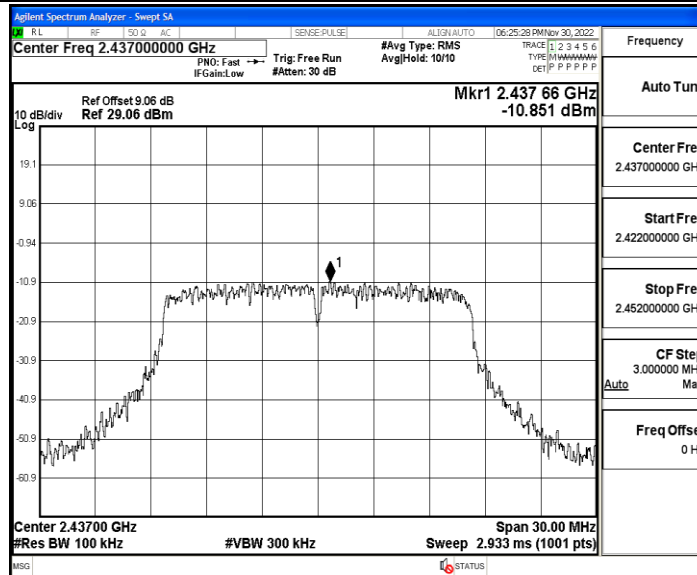
11G_Ant1_2412_30~1000



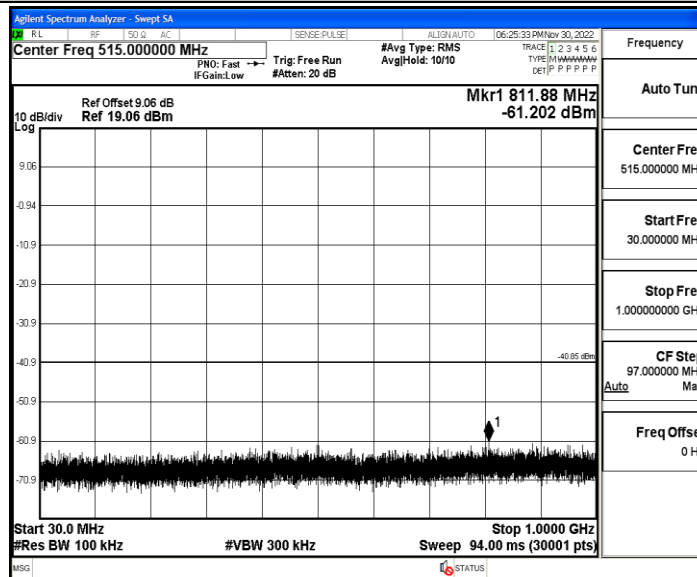
11G_Ant1_2412_1000~26500



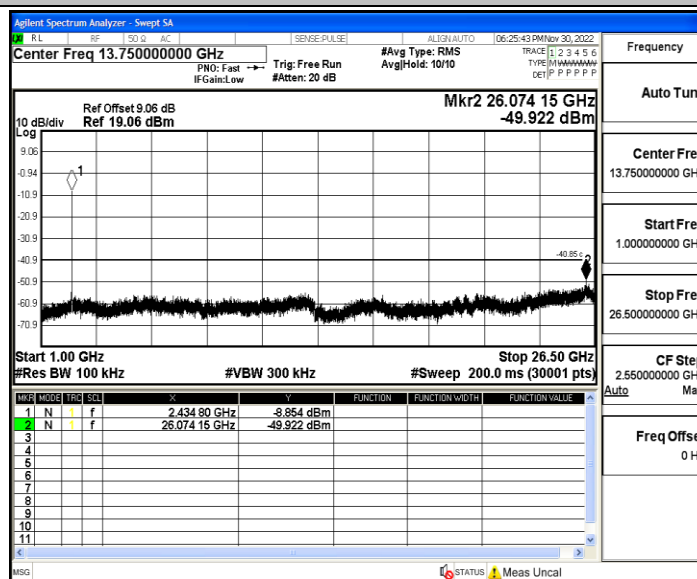
11G_Ant1_2437_0~Reference



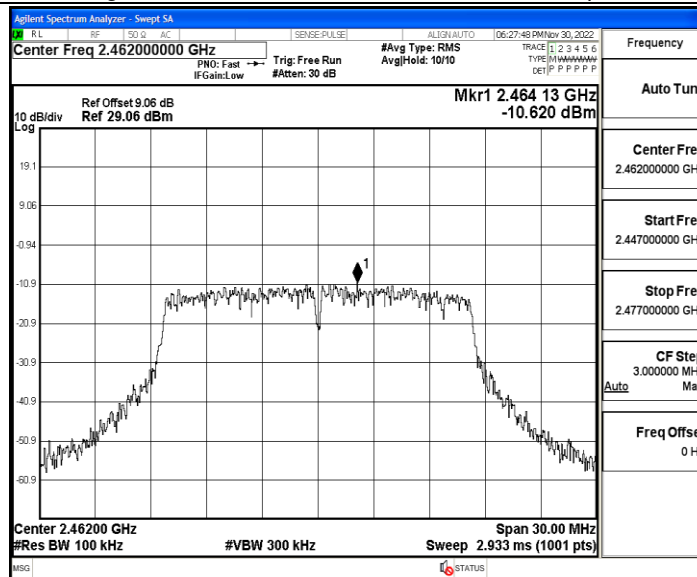
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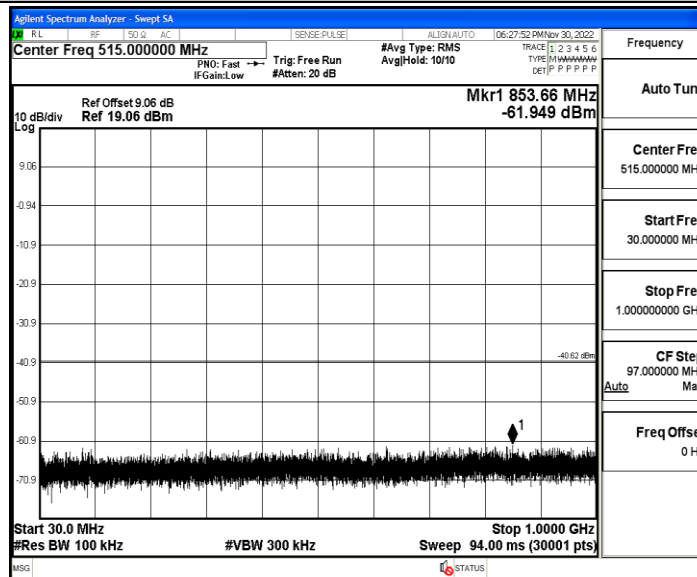
11G_Ant1_2437_1000~26500



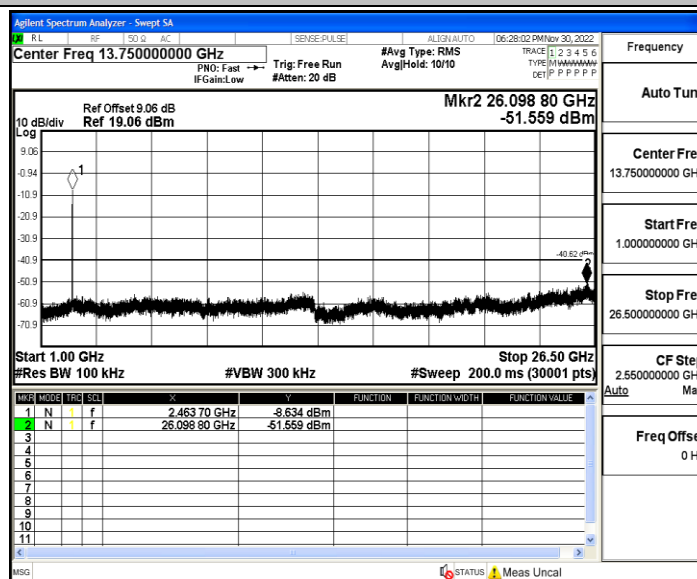
11G_Ant1_2462_0~Reference



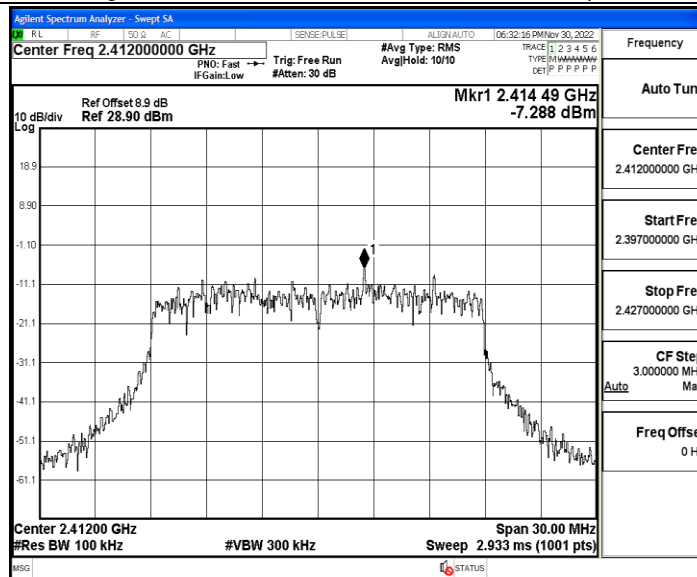
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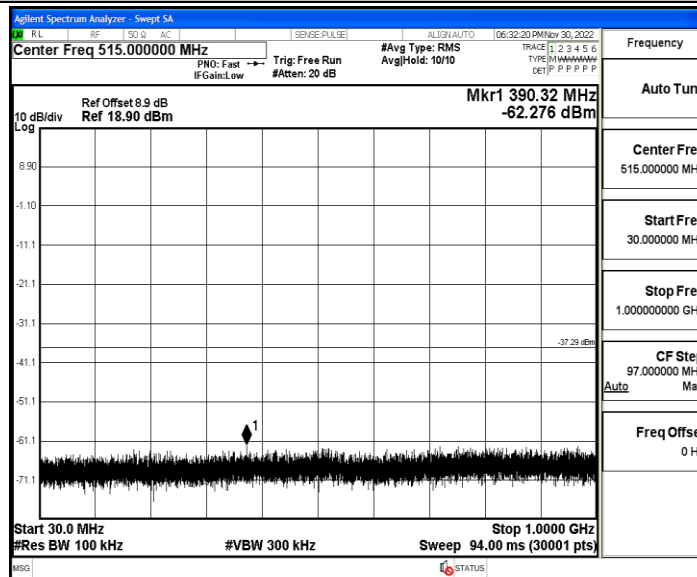
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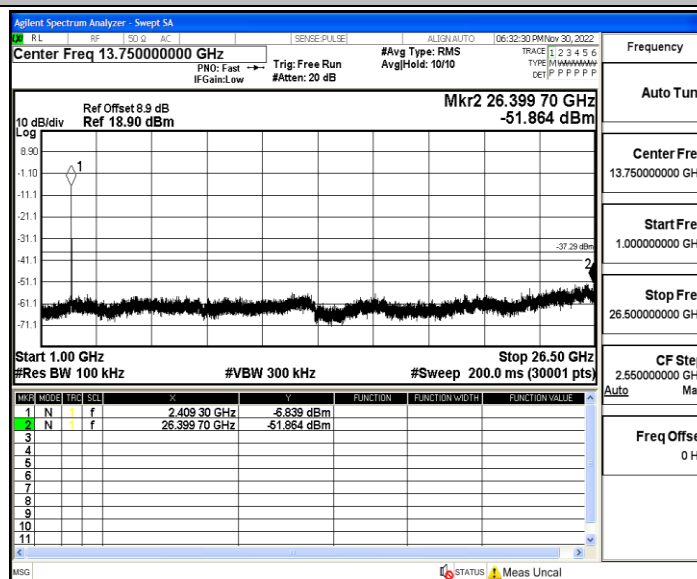
11N20SISO_Ant1_2412_0~Reference



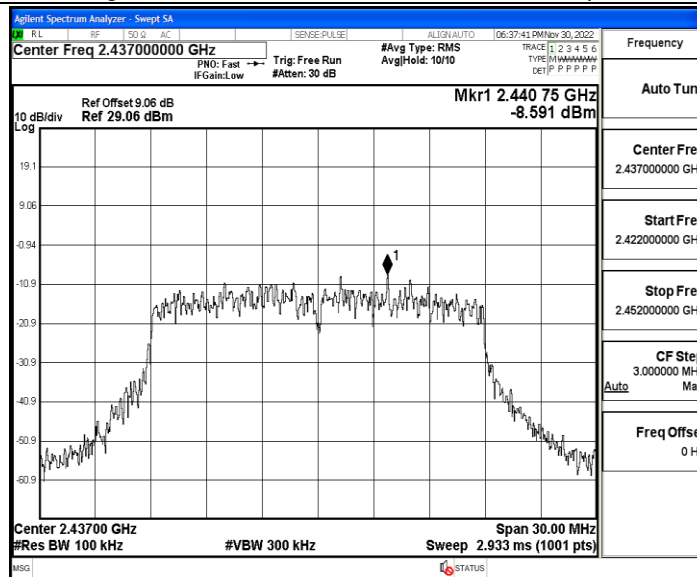
11N20SISO_Ant1_2412_30~1000



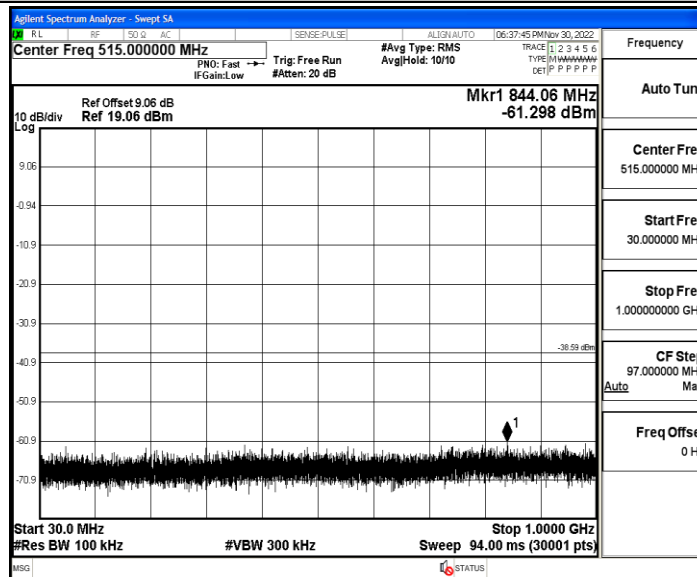
11N20SISO_Ant1_2412_1000~26500



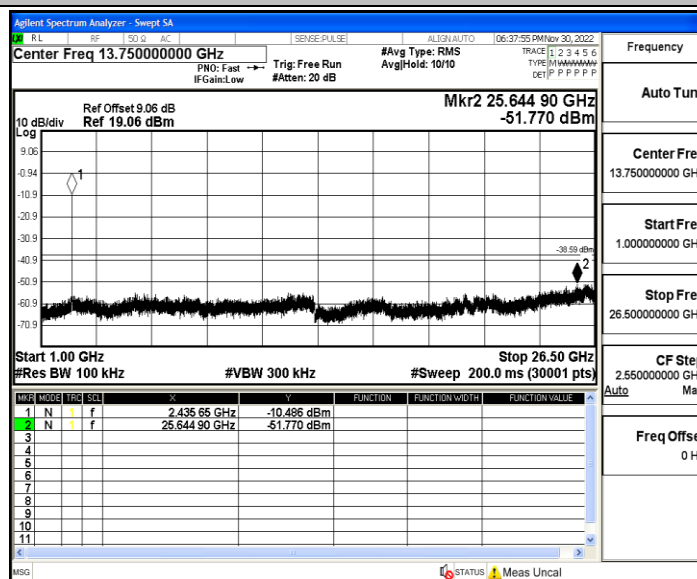
11N20SISO_Ant1_2437_0~Reference



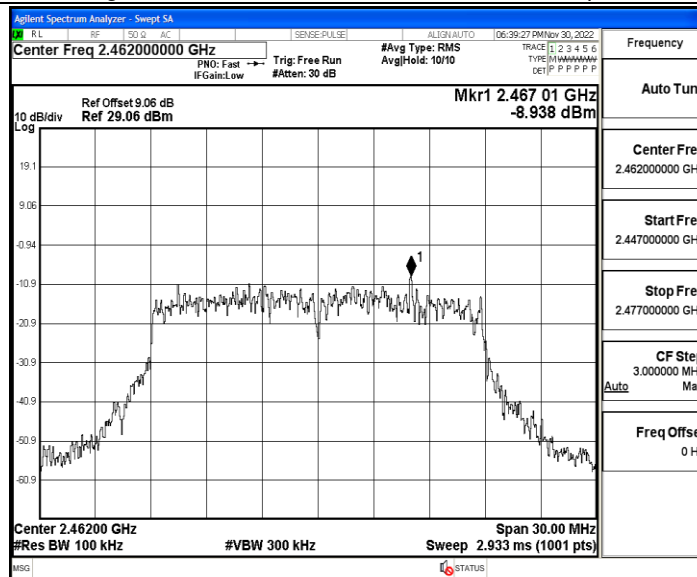
11N20SISO_Ant1_2437_30~1000



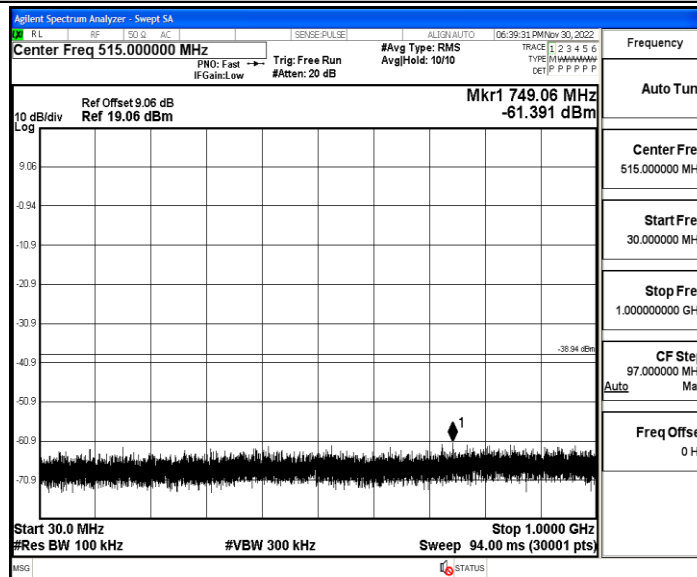
11N20SISO_Ant1_2437_1000~26500



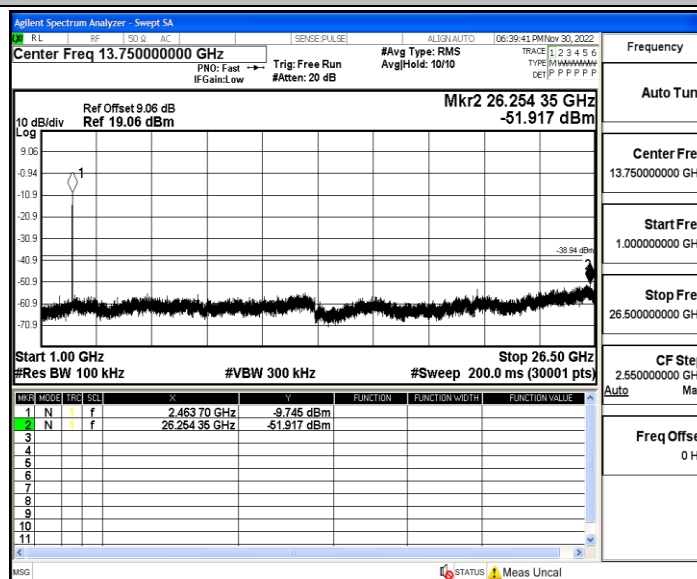
11N20SISO_Ant1_2462_0~Reference



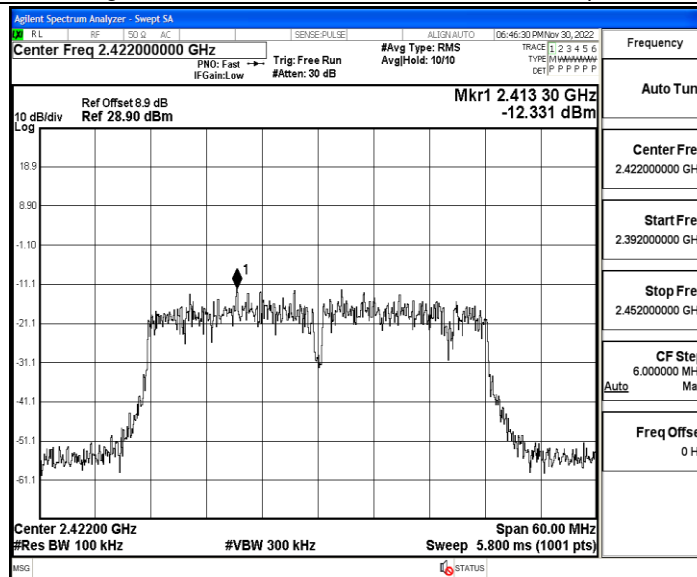
11N20SISO_Ant1_2462_30~1000



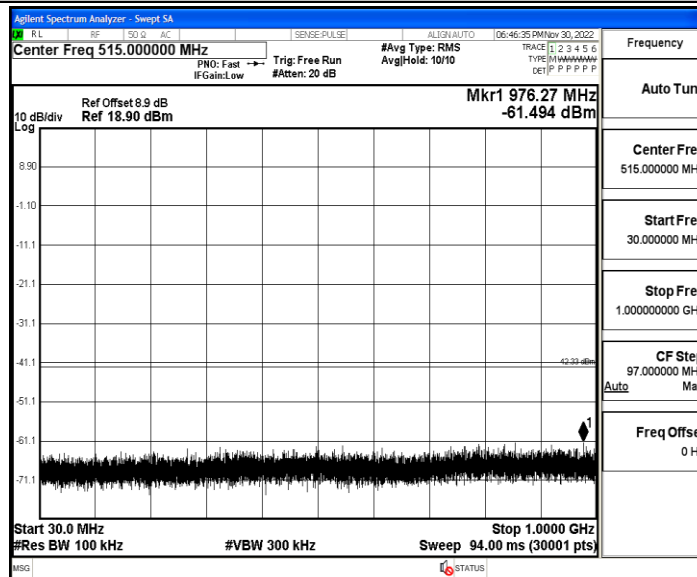
11N20SISO_Ant1_2462_1000~26500



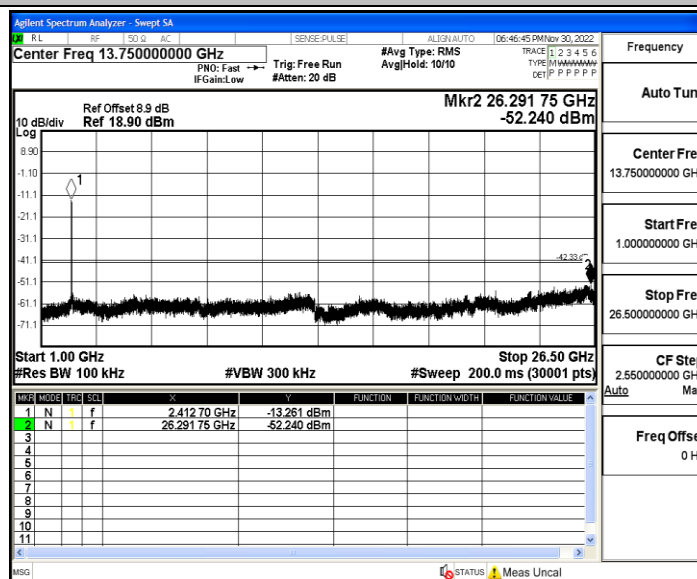
11N40SISO_Ant1_2422_0~Reference



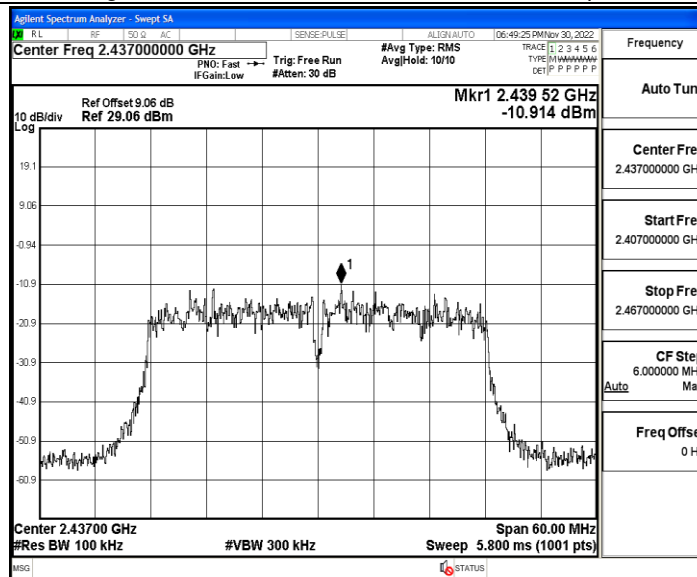
11N40SISO_Ant1_2422_30~1000



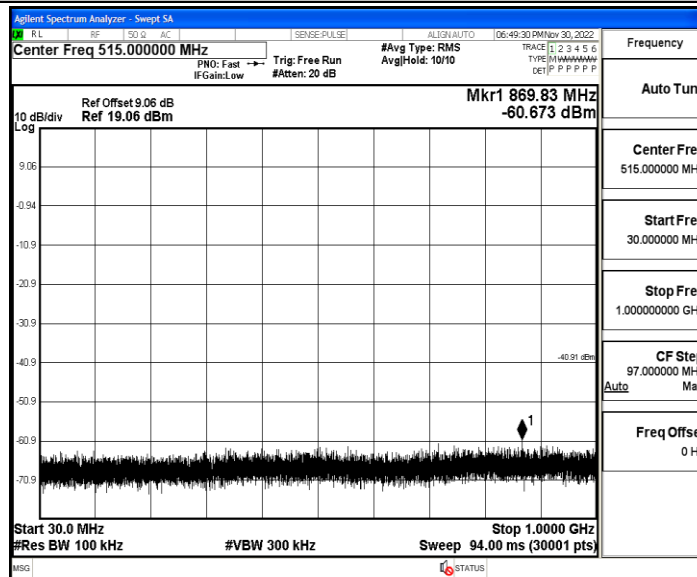
11N40SISO_Ant1_2422_1000~26500



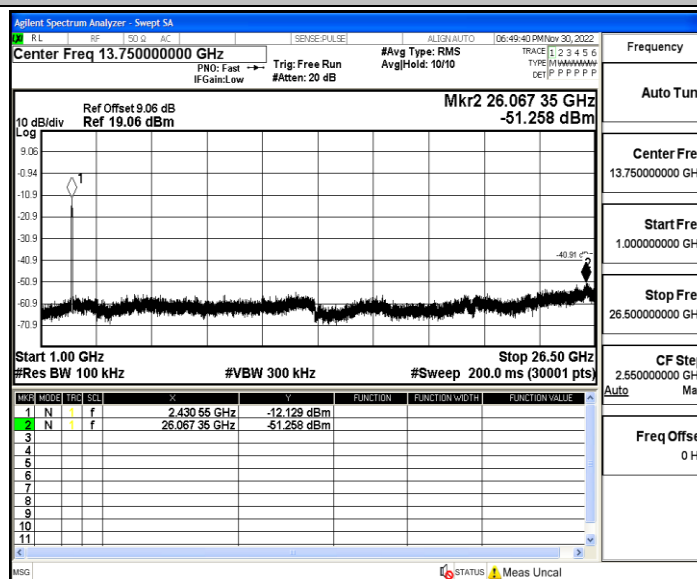
11N40SISO_Ant1_2437_0~Reference



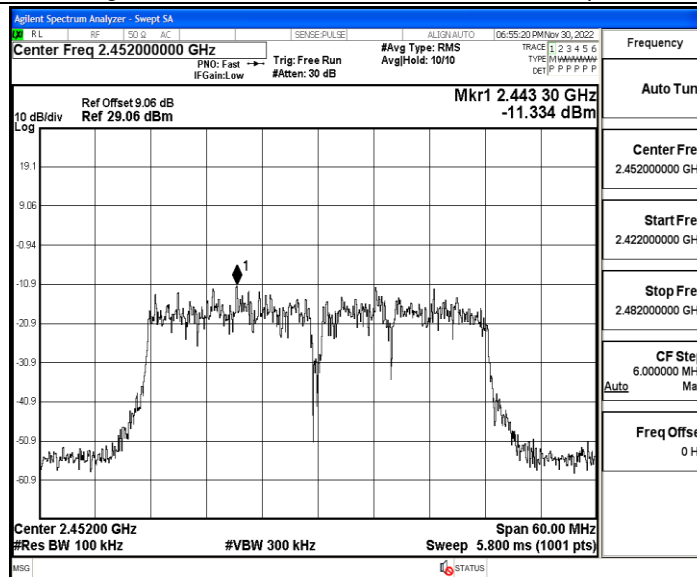
11N40SISO_Ant1_2437_30~1000



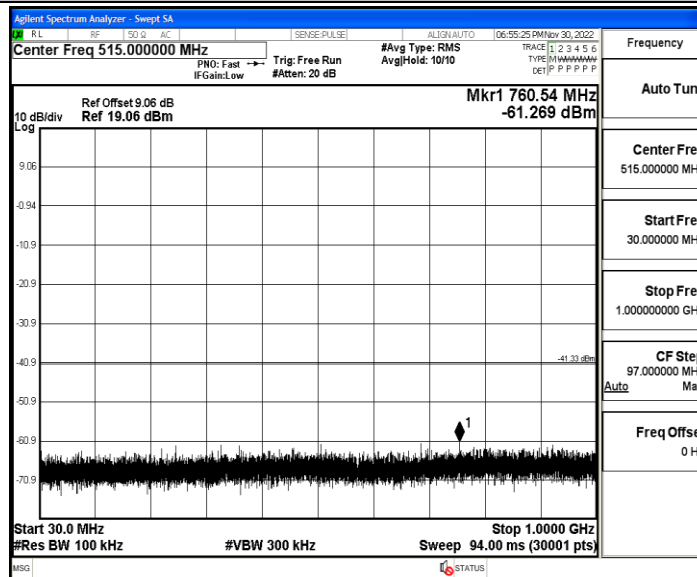
11N40SISO_Ant1_2437_1000~26500



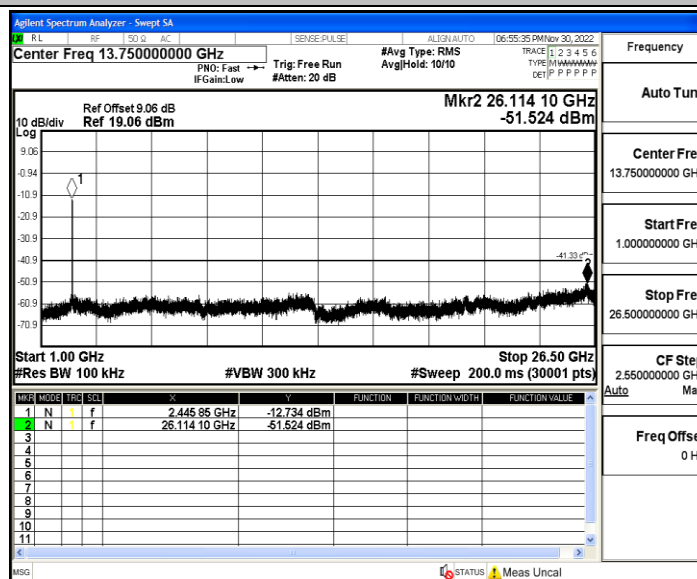
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



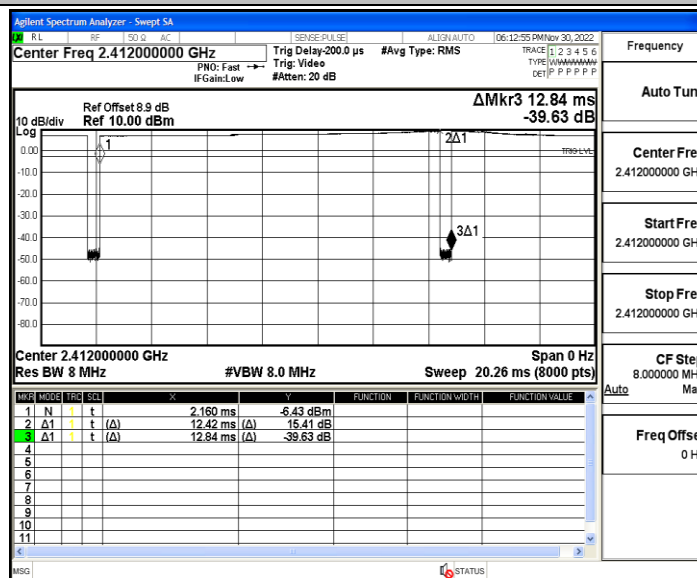
Appendix G: Duty Cycle

Test Result

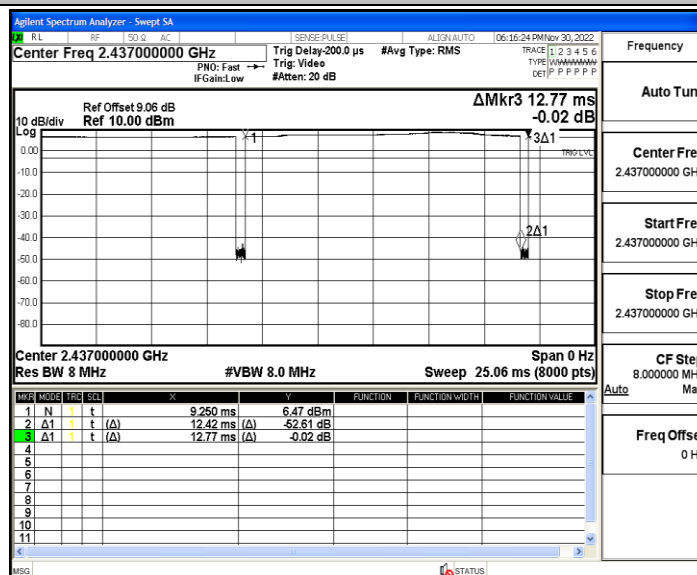
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T
11B	Ant1	2412	12.42	12.84	96.73	0.08
		2437	12.42	12.77	97.26	0.08
		2462	12.42	12.87	96.50	0.08
11G	Ant1	2412	2.06	2.29	89.96	0.49
		2437	2.07	2.27	91.19	0.48
		2462	2.06	2.27	90.75	0.49
11N20SISO	Ant1	2412	0.23	0.46	50.00	4.35
		2437	0.23	0.46	50.00	4.35
		2462	0.23	0.46	50.00	4.35
11N40SISO	Ant1	2422	0.12	0.35	34.29	8.33
		2437	0.13	0.36	36.11	7.69
		2452	0.13	0.36	36.11	7.69

Test Graphs

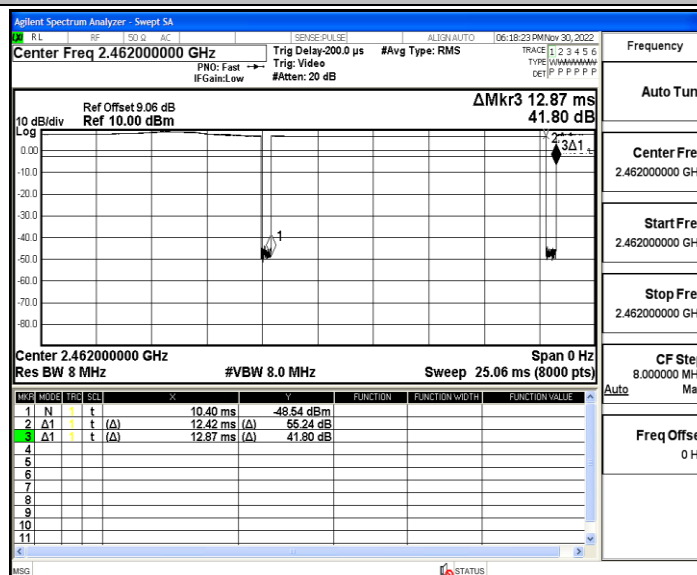
11B_Ant1_2412



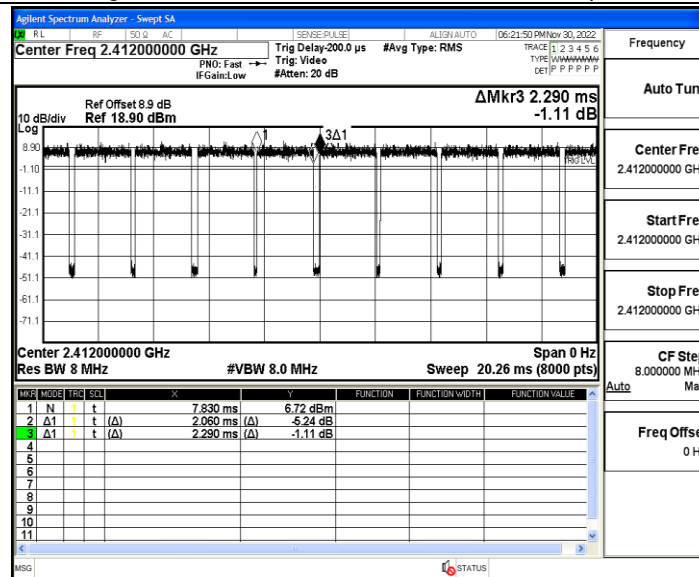
11B_Ant1_2437



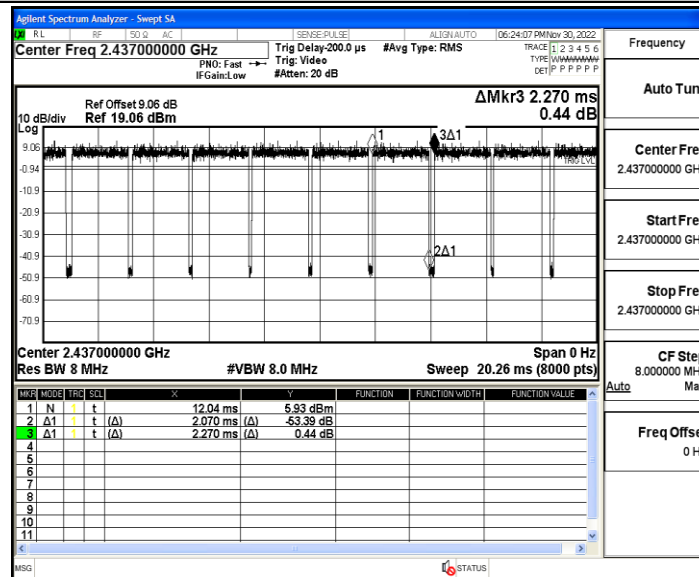
11B_Ant1_2462



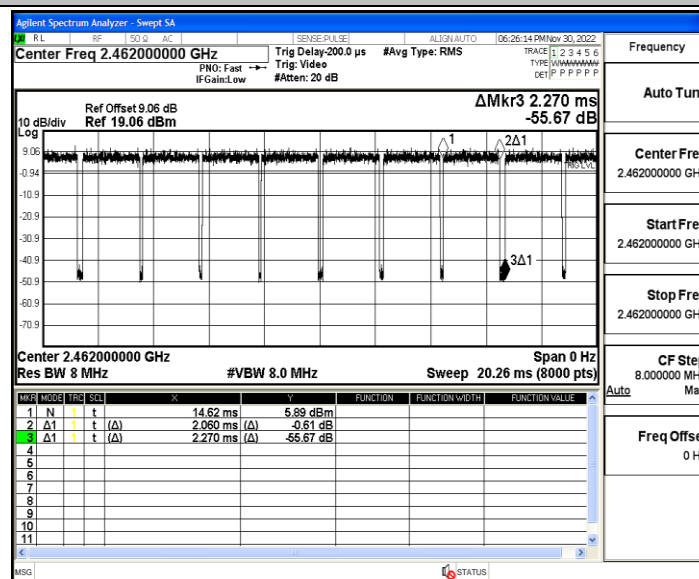
11G_Ant1_2412



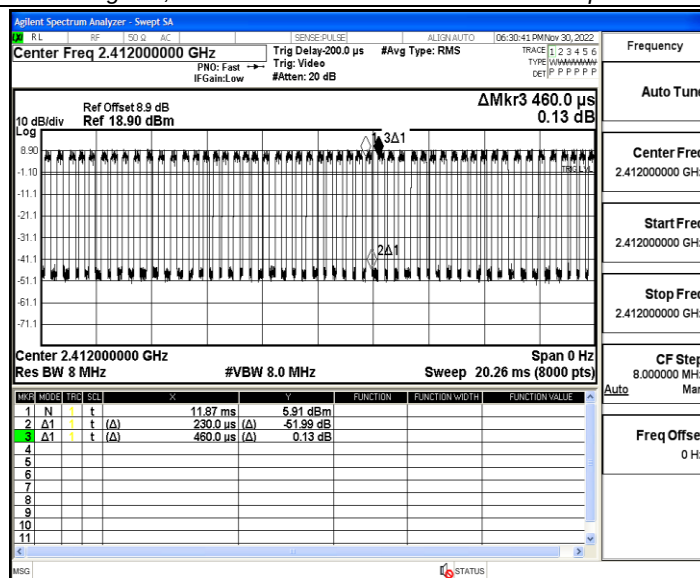
11G_Ant1_2437



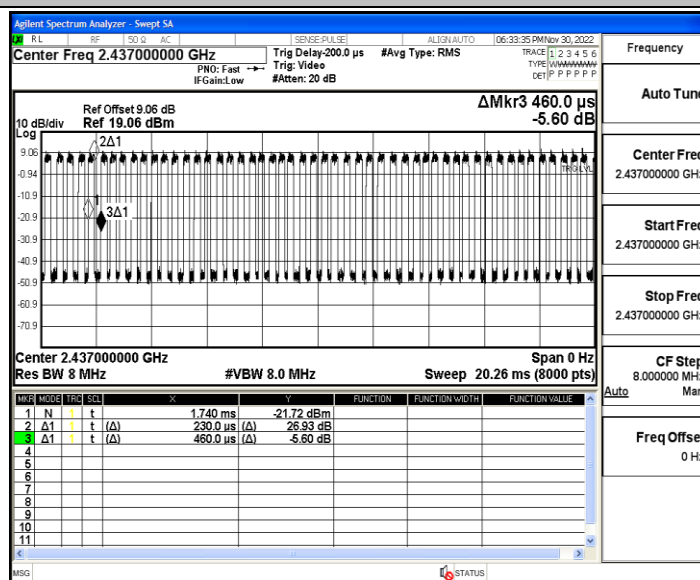
11G_Ant1_2462



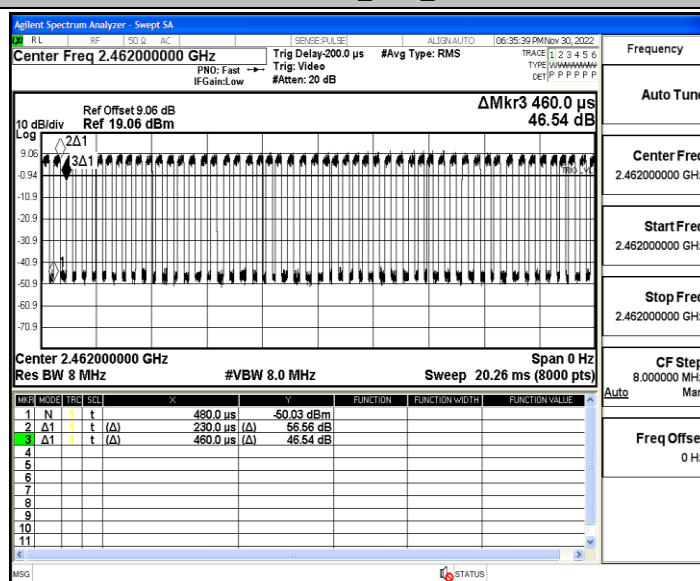
11N20SISO_Ant1_2412



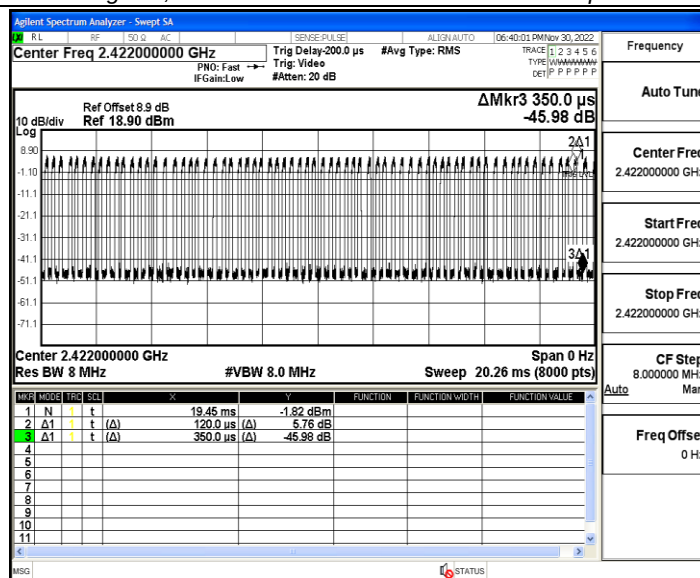
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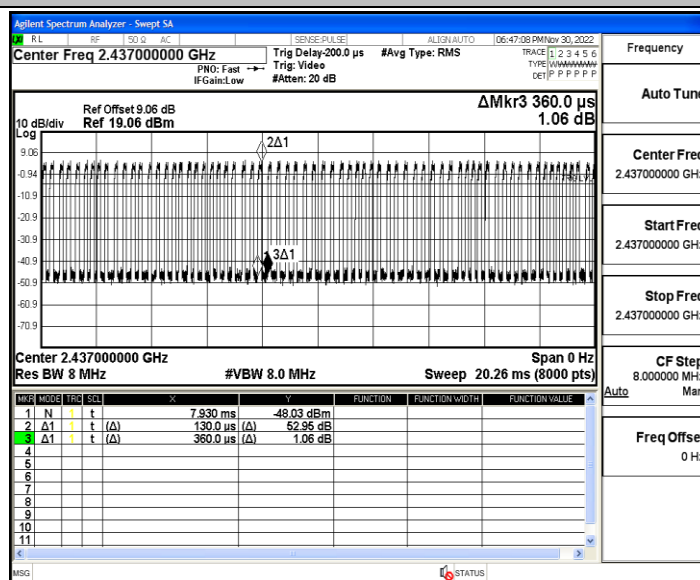
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

