

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

Product Name: WUUK Wired Smart Doorbell Pro

Trade Mark: WUUK

Test Model: Y0110

FCC ID: 2AWHY-Y0110

Environmental Conditions

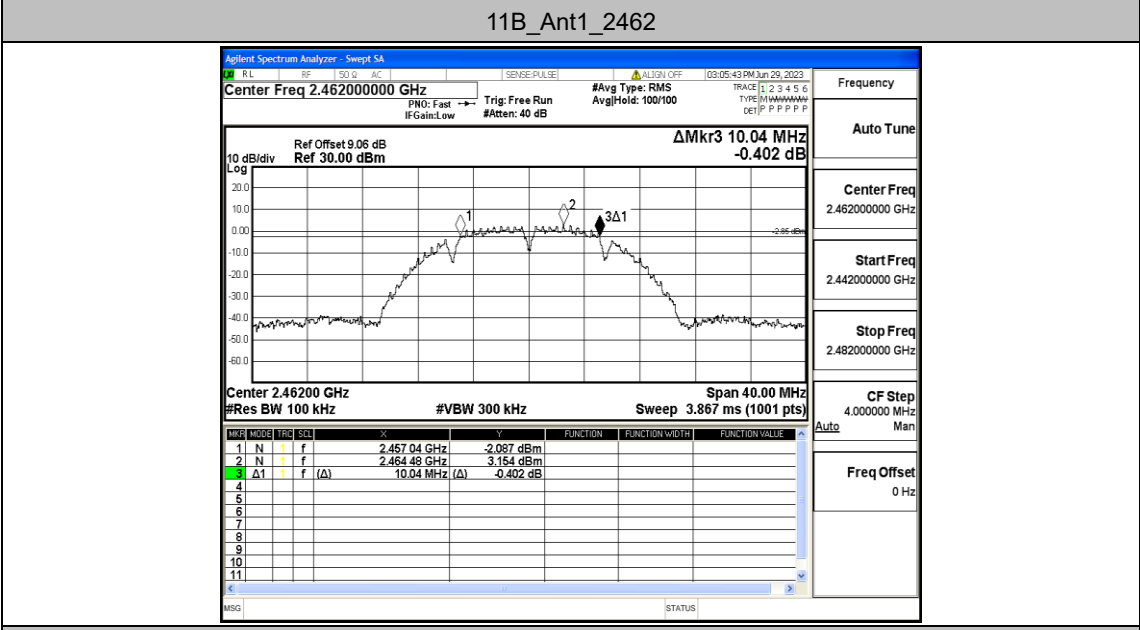
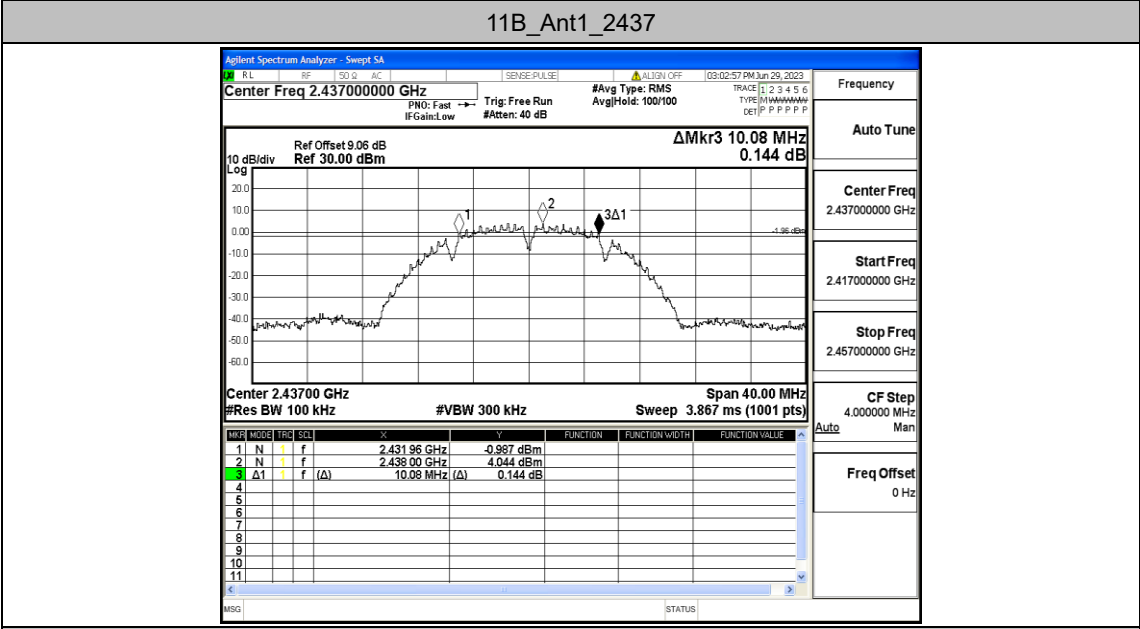
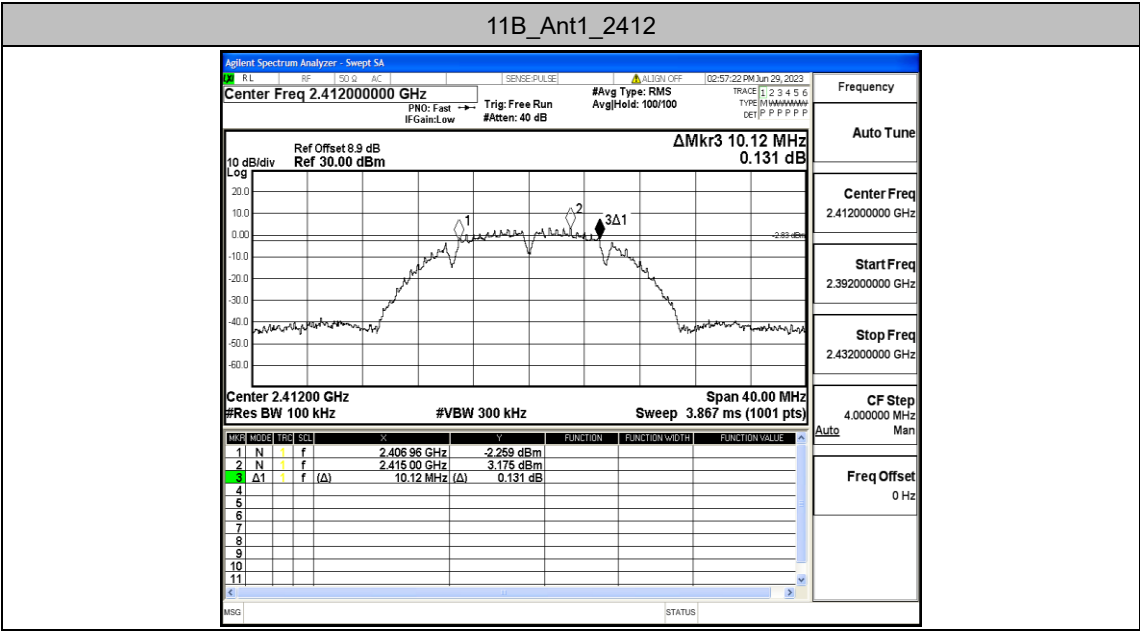
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

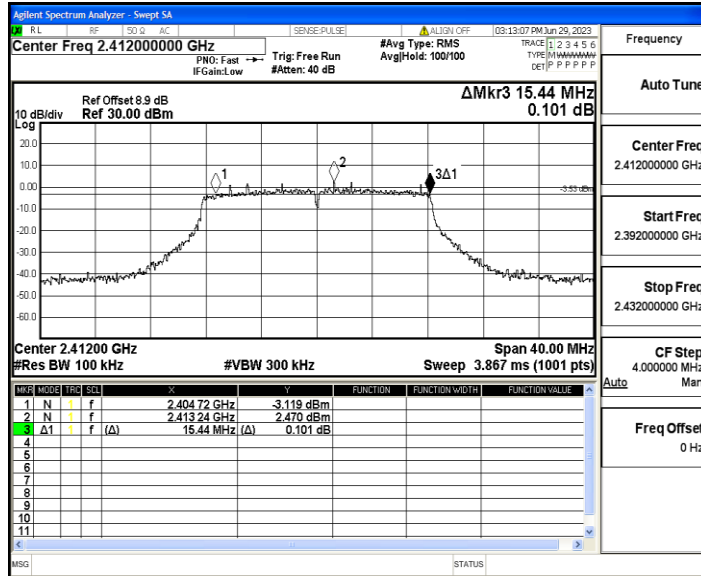
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.120	2406.960	2417.080	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.040	2457.040	2467.080	0.5	PASS
11G	Ant1	2412	15.440	2404.720	2420.160	0.5	PASS
		2437	16.000	2428.880	2444.880	0.5	PASS
		2462	16.240	2453.880	2470.120	0.5	PASS
11N20SISO	Ant1	2412	16.320	2403.920	2420.240	0.5	PASS
		2437	16.000	2428.560	2444.560	0.5	PASS
		2462	16.000	2453.800	2469.800	0.5	PASS
11N40SISO	Ant1	2422	35.280	2404.480	2439.760	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.200	2434.400	2469.600	0.5	PASS

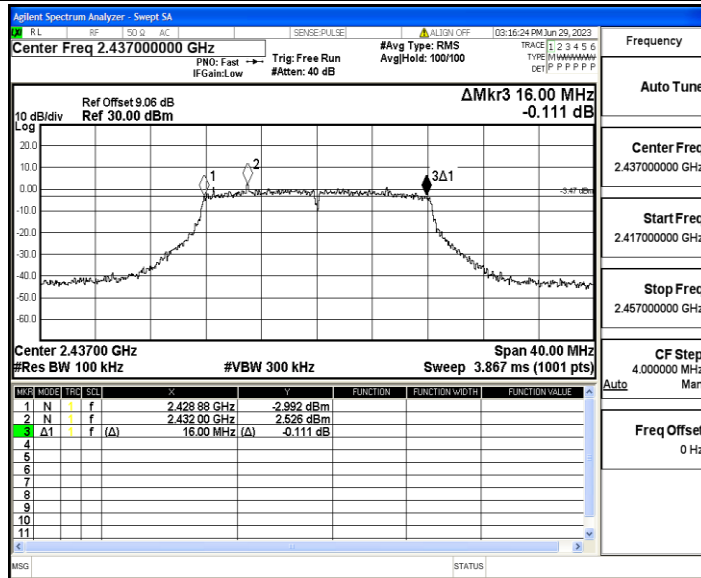
Test Graphs



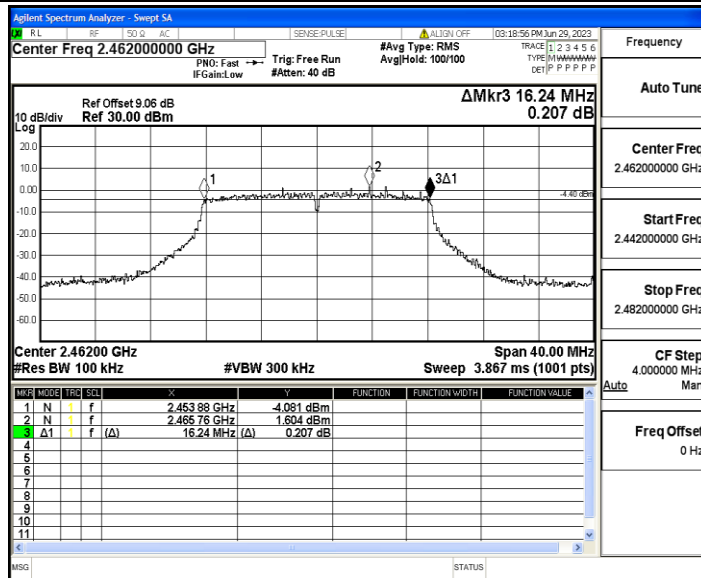
11G_Ant1_2412



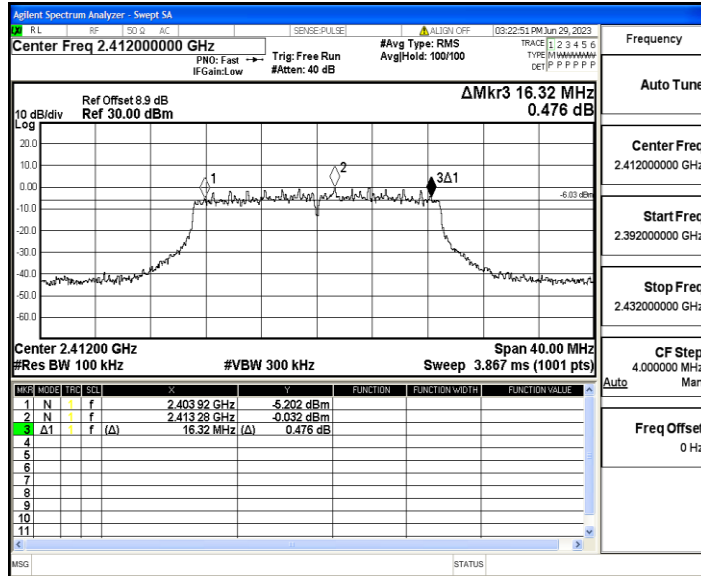
11G_Ant1_2437



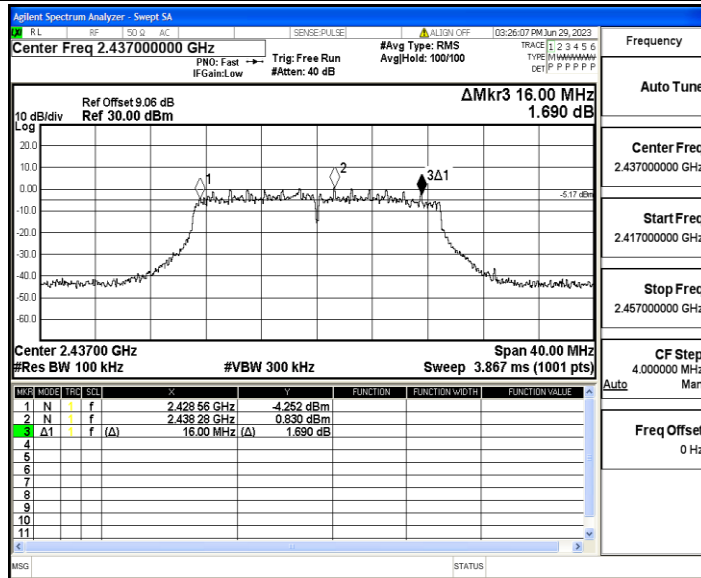
11G_Ant1_2462



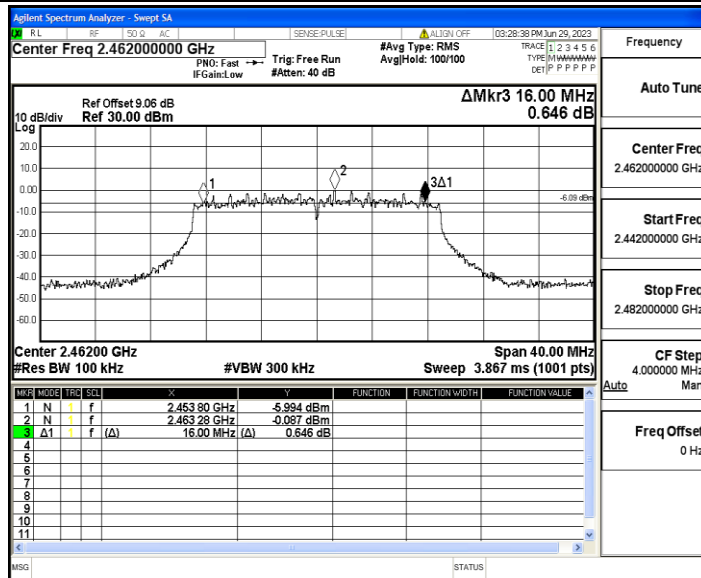
11N20SISO_Ant1_2412



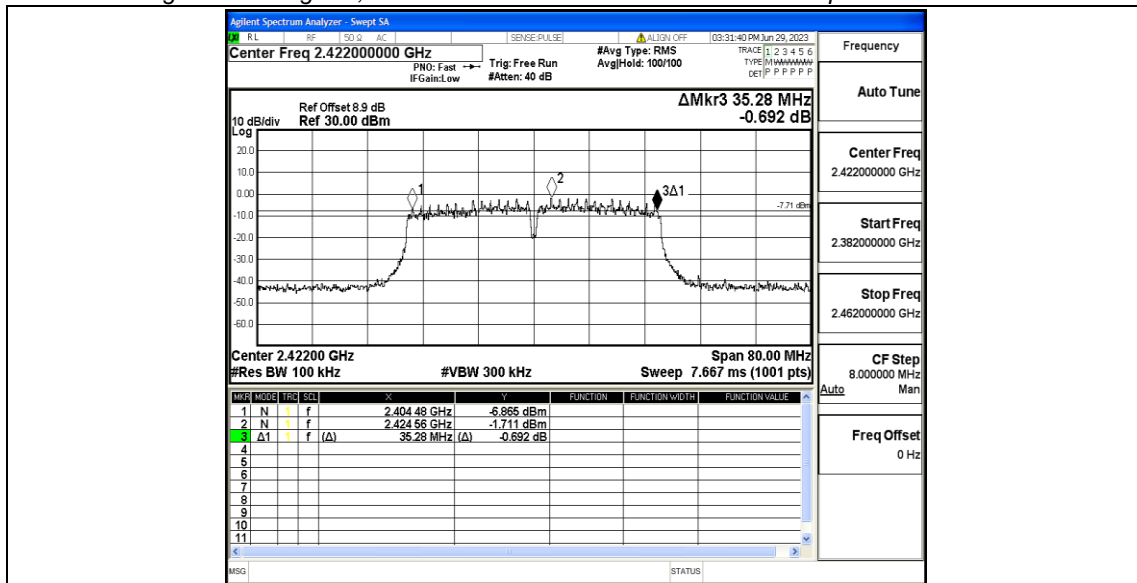
11N20SISO_Ant1_2437



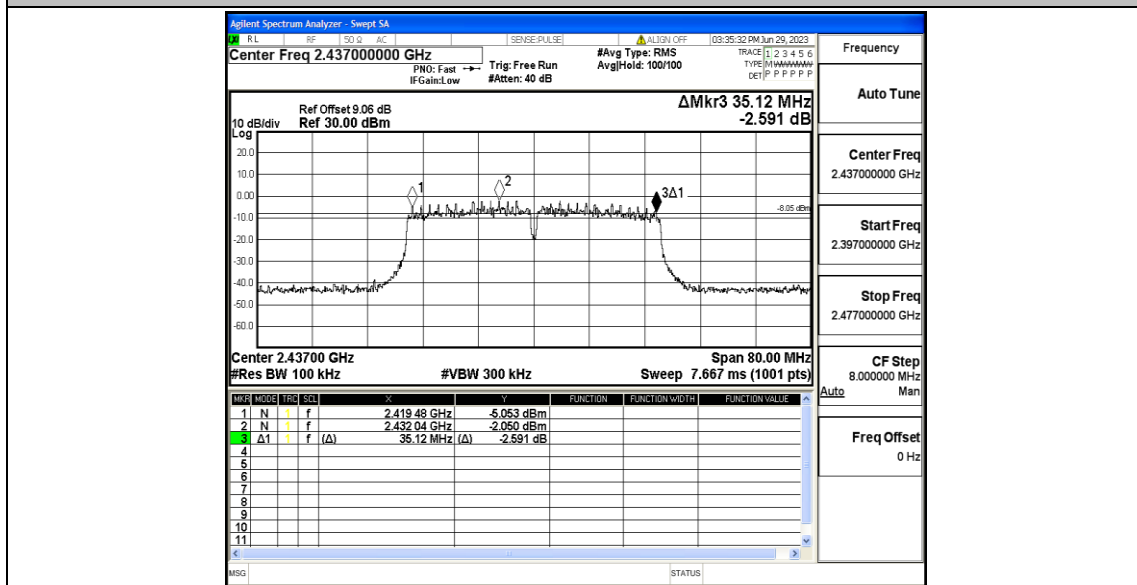
11N20SISO_Ant1_2462



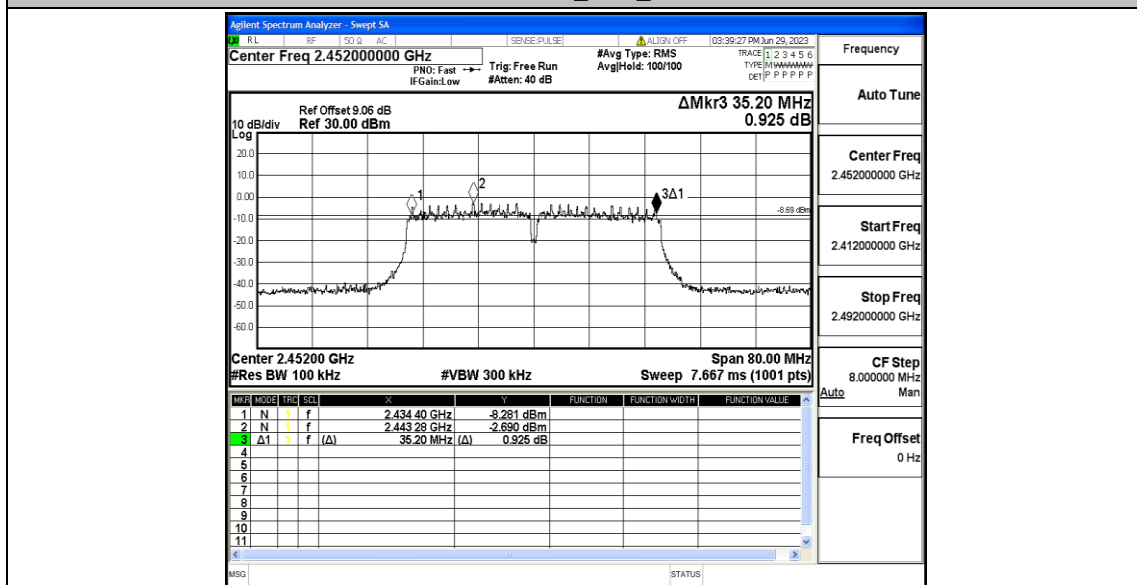
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

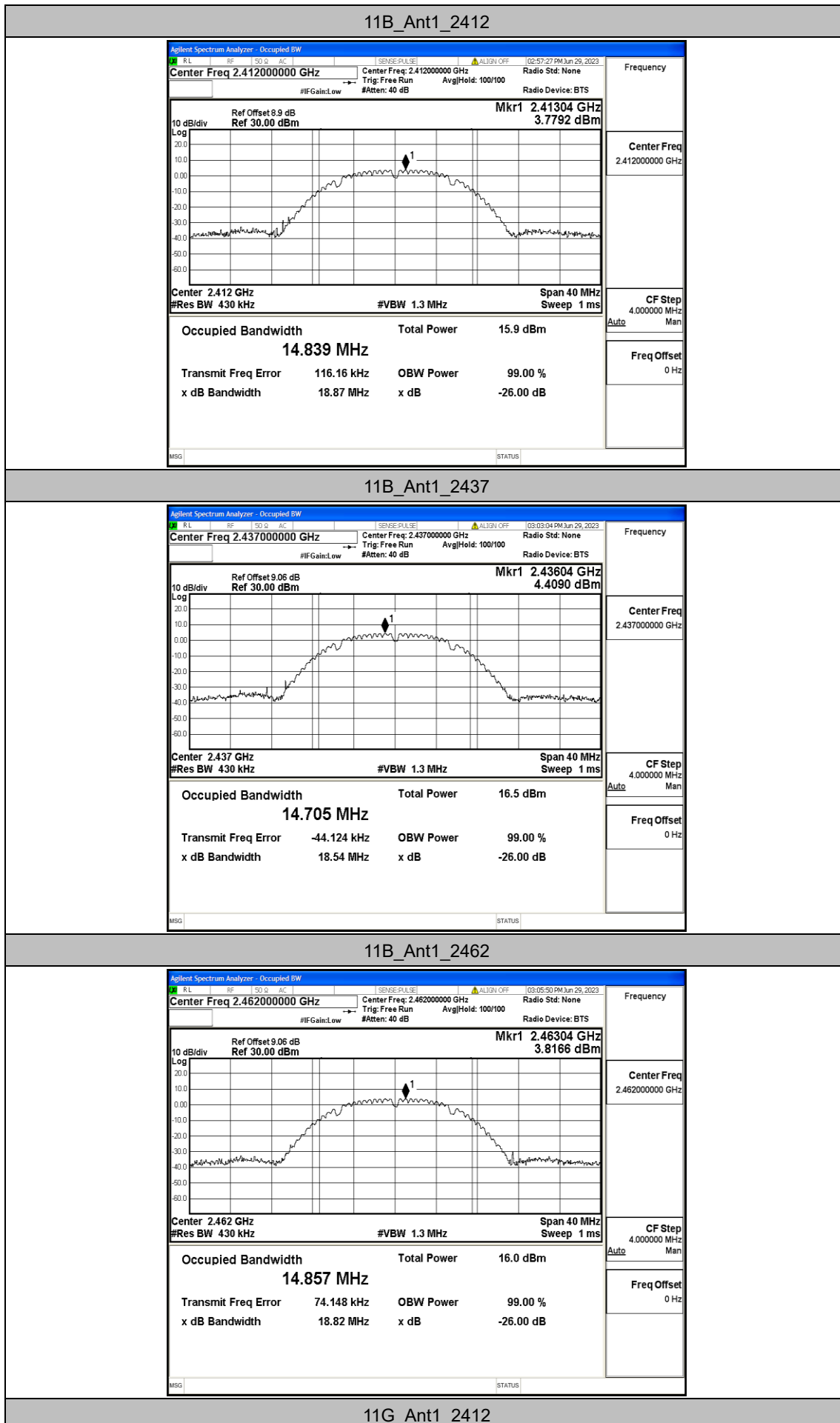


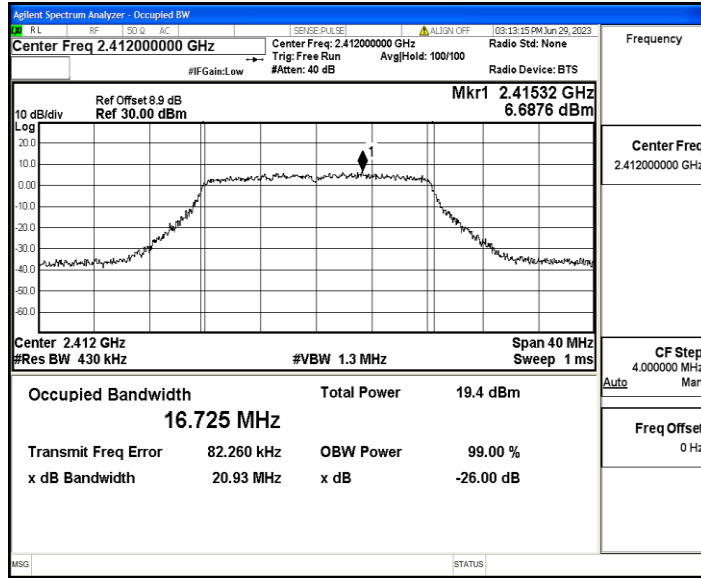
Appendix B: Occupied Channel Bandwidth

Test Result

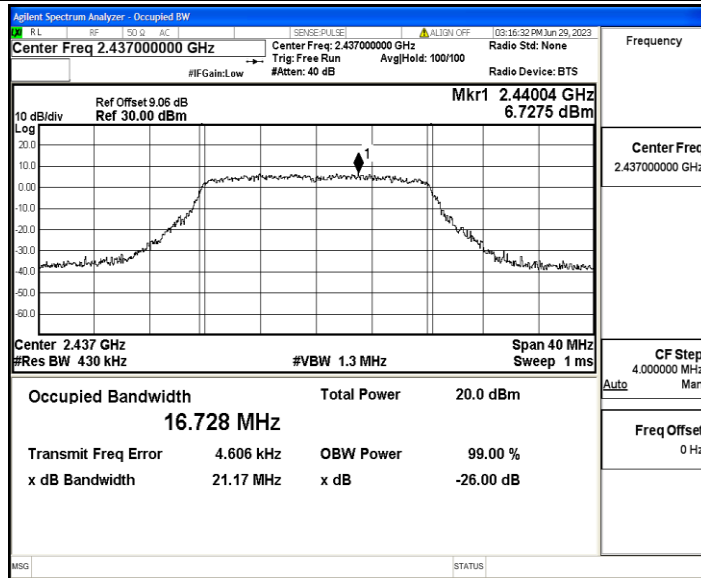
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.839	2404.6967	2419.5357	---	---
		2437	14.705	2429.6034	2444.3084	---	---
		2462	14.857	2454.6457	2469.5027	---	---
11G	Ant1	2412	16.725	2403.7198	2420.4448	---	---
		2437	16.728	2428.6406	2445.3686	---	---
		2462	16.846	2453.6086	2470.4546	---	---
11N20SISO	Ant1	2412	17.782	2403.1840	2420.9660	---	---
		2437	17.725	2428.1925	2445.9175	---	---
		2462	17.857	2453.1526	2471.0096	---	---
11N40SISO	Ant1	2422	36.030	2404.1381	2440.1681	---	---
		2437	36.003	2419.0345	2455.0375	---	---
		2452	36.336	2433.8514	2470.1874	---	---

Test Graphs

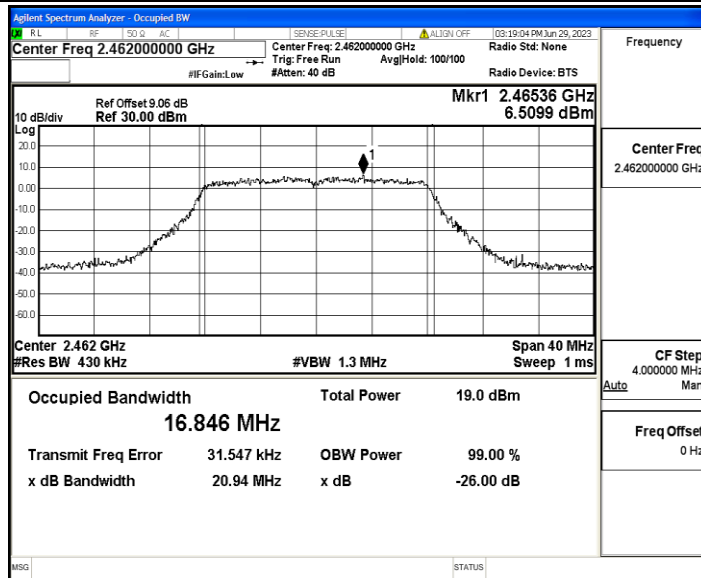




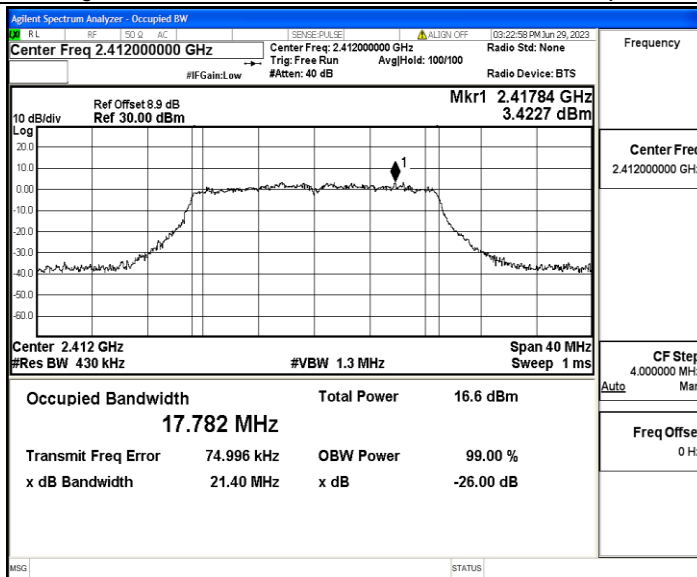
11G_Ant1_2437



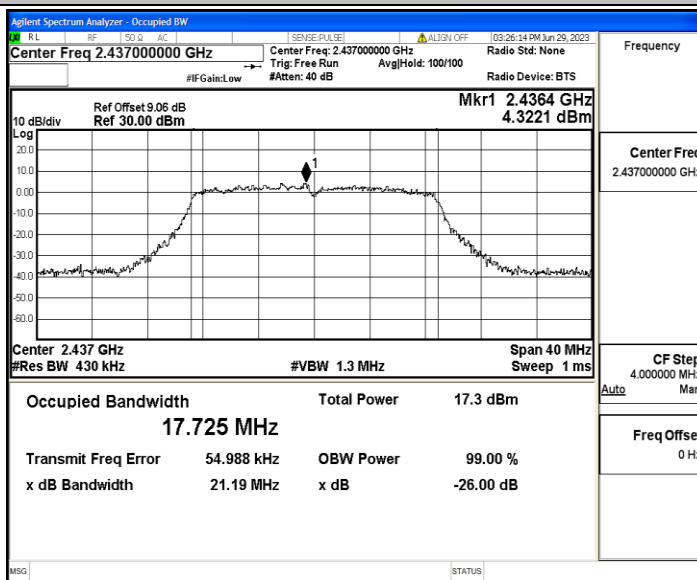
11G_Ant1_2462



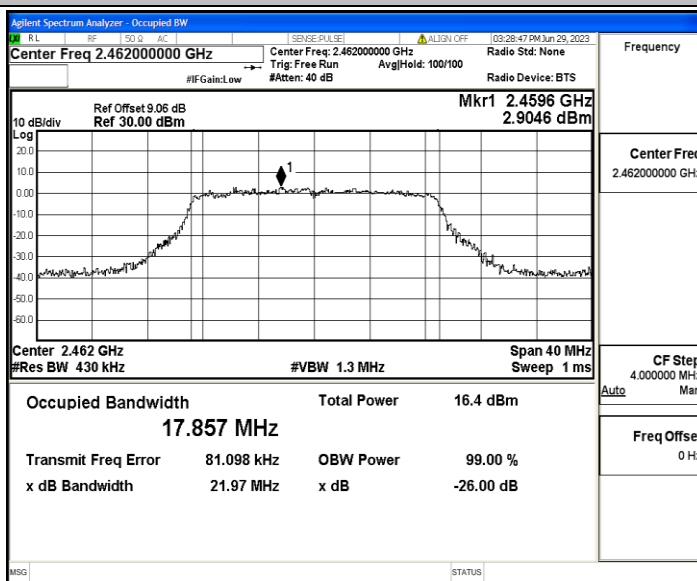
11N20SISO_Ant1_2412



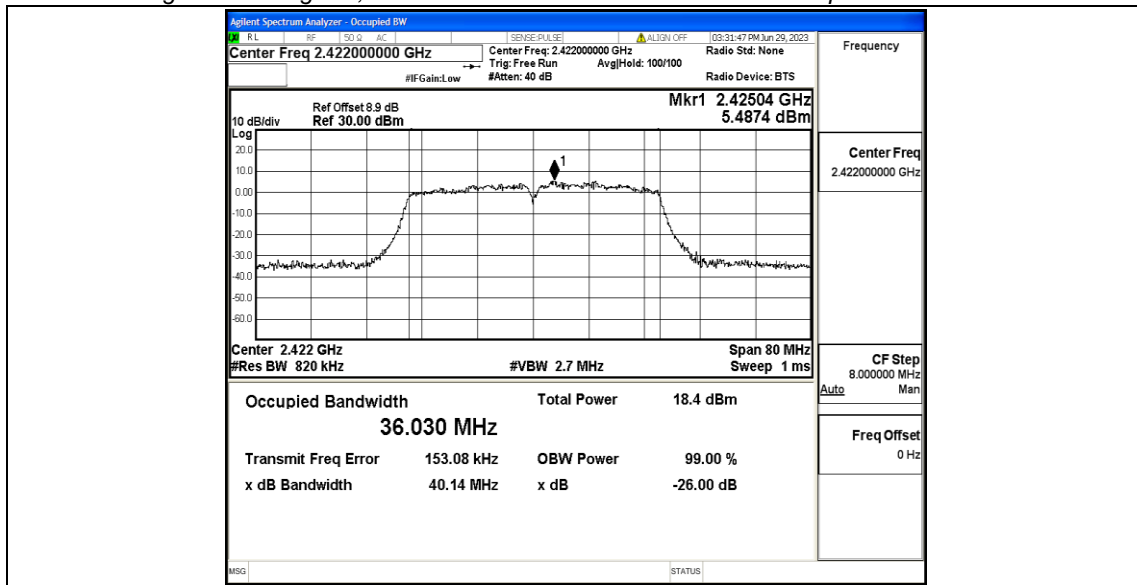
11N20SISO_Ant1_2437



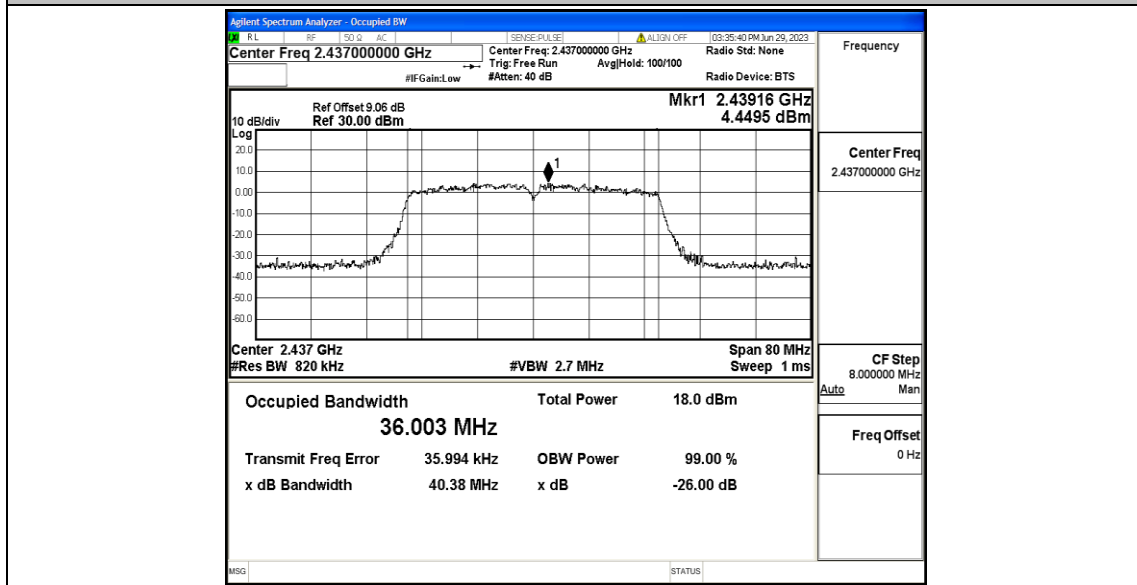
11N20SISO_Ant1_2462



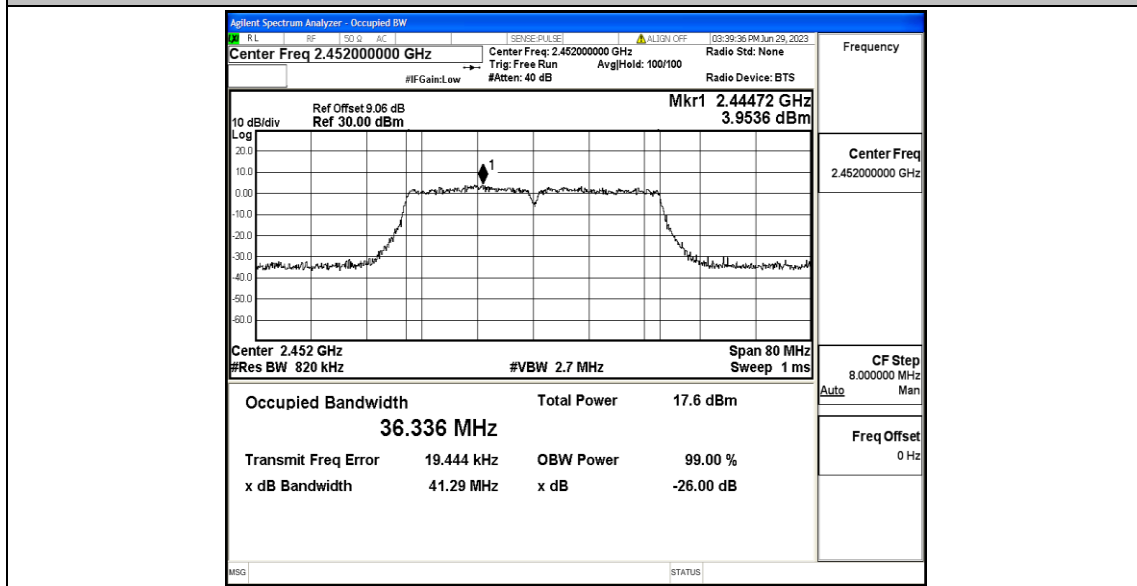
11N40SISO_Ant1_2422



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	12.98	≤30.00	PASS
		2437	13.68	≤30.00	PASS
		2462	13.11	≤30.00	PASS
11G	Ant1	2412	13.55	≤30.00	PASS
		2437	14.03	≤30.00	PASS
		2462	13.13	≤30.00	PASS
11N20SISO	Ant1	2412	11.18	≤30.00	PASS
		2437	12.07	≤30.00	PASS
		2462	10.92	≤30.00	PASS
11N40SISO	Ant1	2422	12.65	≤30.00	PASS
		2437	12.25	≤30.00	PASS
		2452	11.80	≤30.00	PASS

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

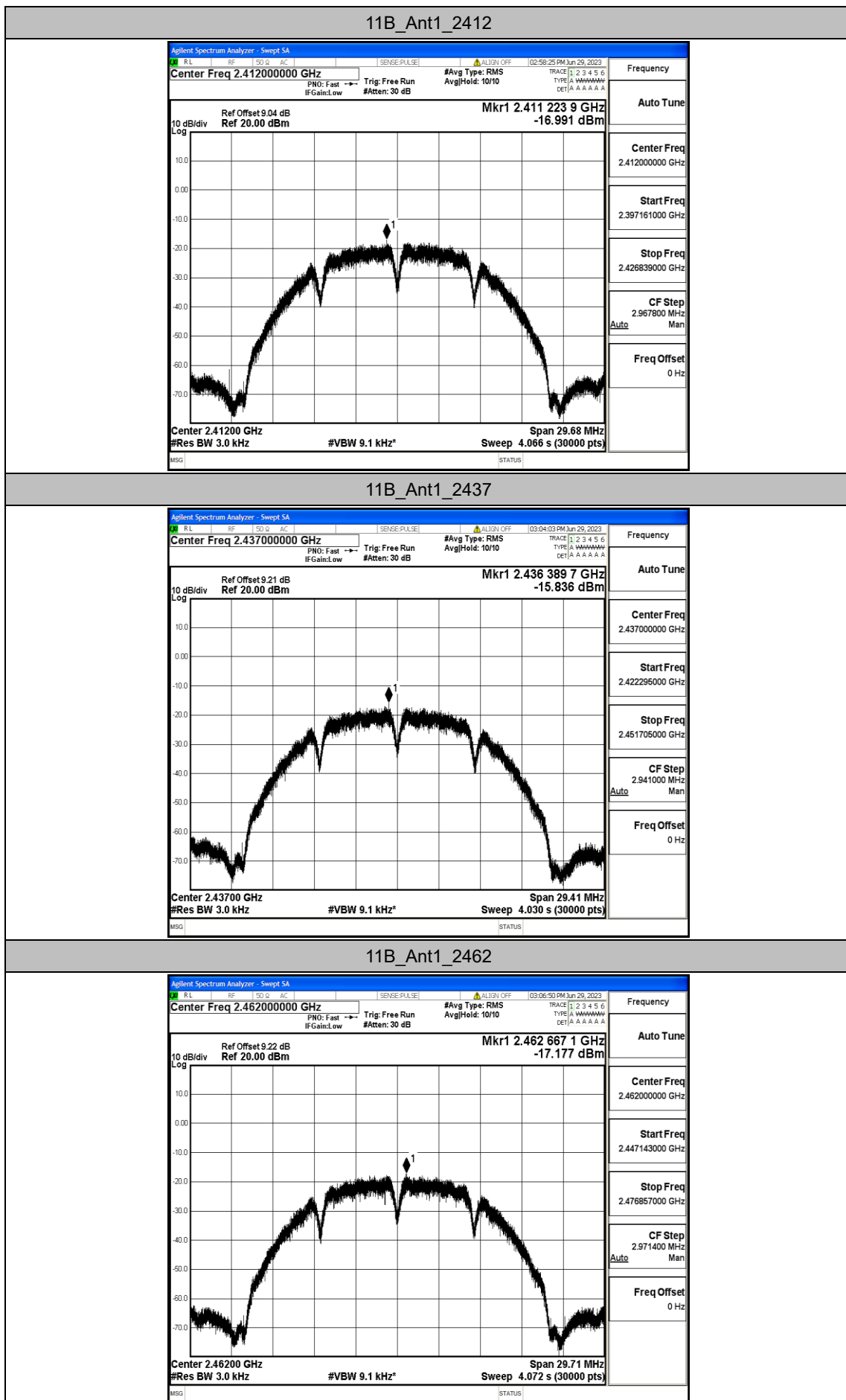
Appendix D: Maximum power spectral density

Test Result

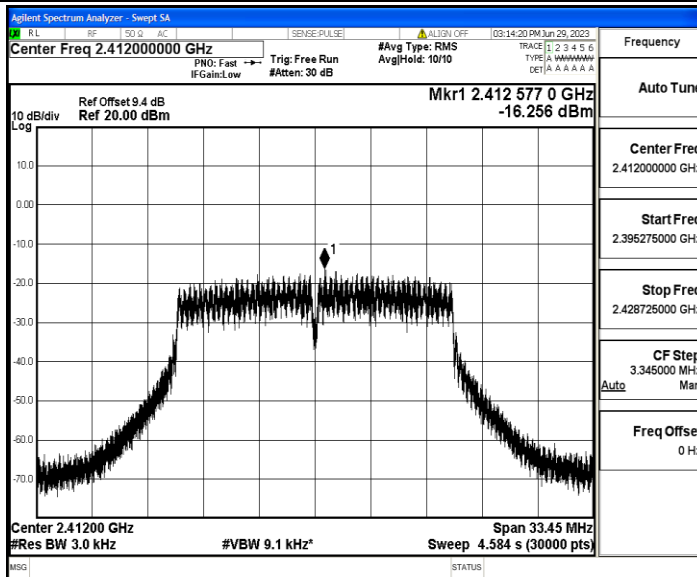
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.99	≤8.00	PASS
		2437	-15.84	≤8.00	PASS
		2462	-17.18	≤8.00	PASS
11G	Ant1	2412	-16.26	≤8.00	PASS
		2437	-16.22	≤8.00	PASS
		2462	-17.68	≤8.00	PASS
11N20SISO	Ant1	2412	-16.14	≤8.00	PASS
		2437	-15.08	≤8.00	PASS
		2462	-15.88	≤8.00	PASS
11N40SISO	Ant1	2422	-16.72	≤8.00	PASS
		2437	-16.58	≤8.00	PASS
		2452	-16.98	≤8.00	PASS

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

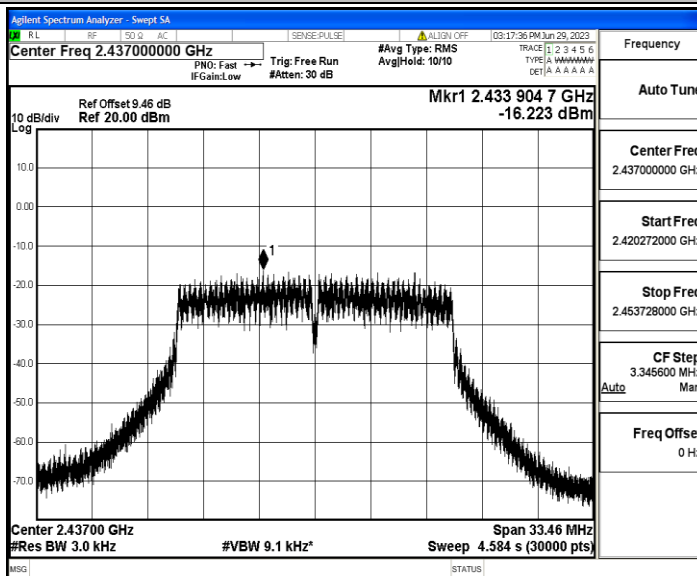
Test Graphs



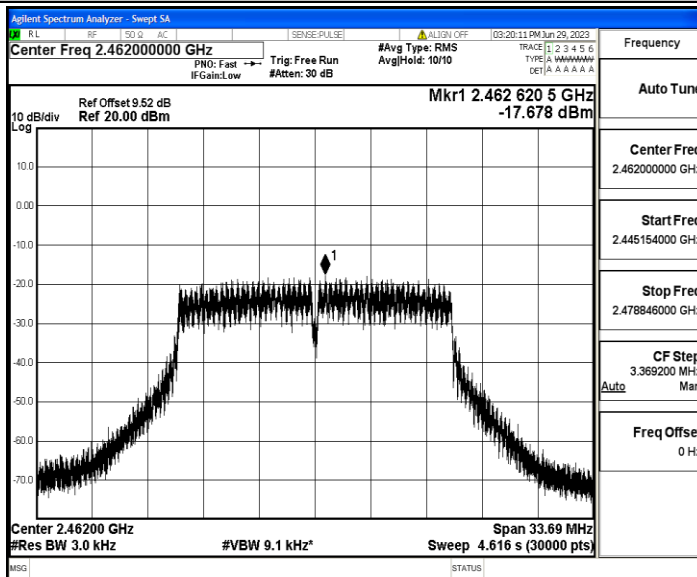
11G_Ant1_2412



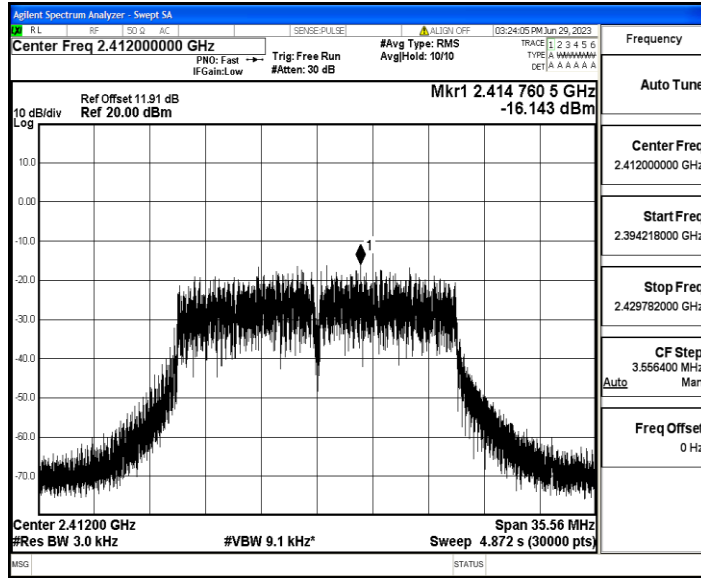
11G_Ant1_2437



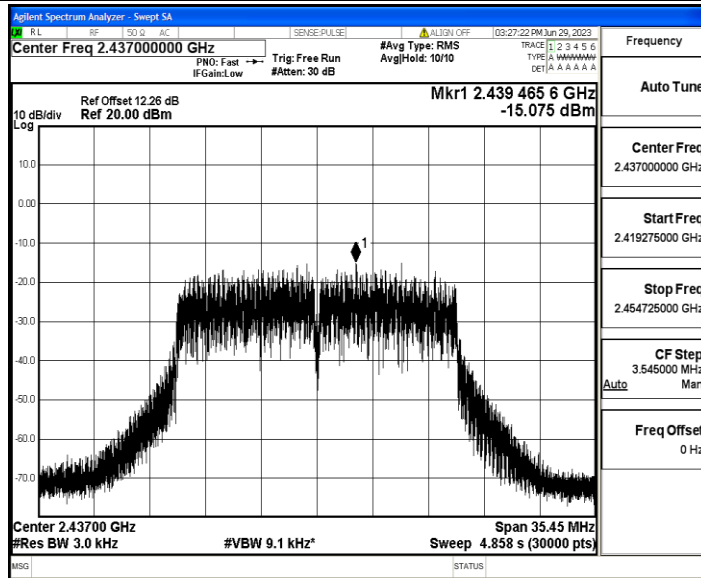
11G_Ant1_2462



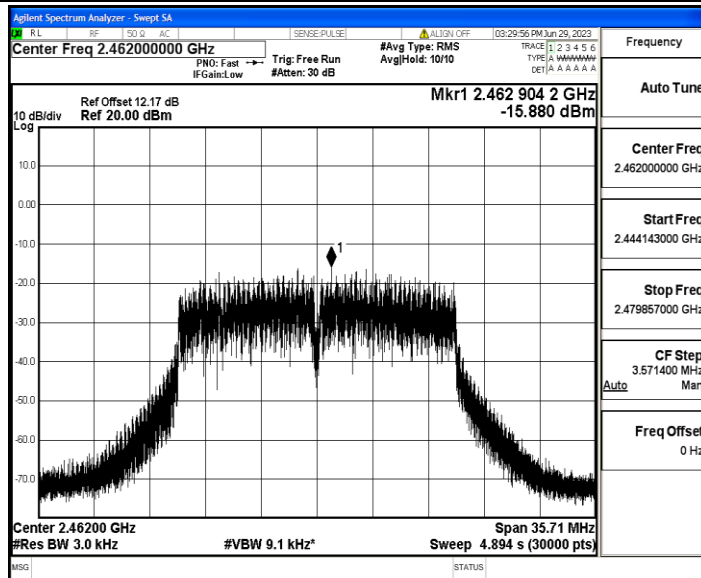
11N20SISO_Ant1_2412



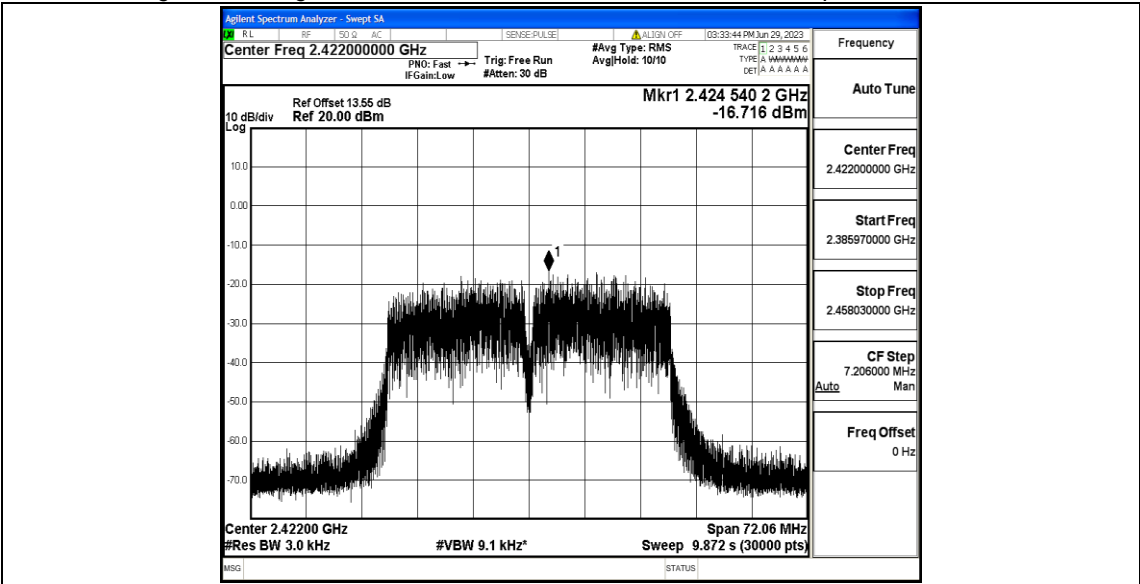
11N20SISO_Ant1_2437



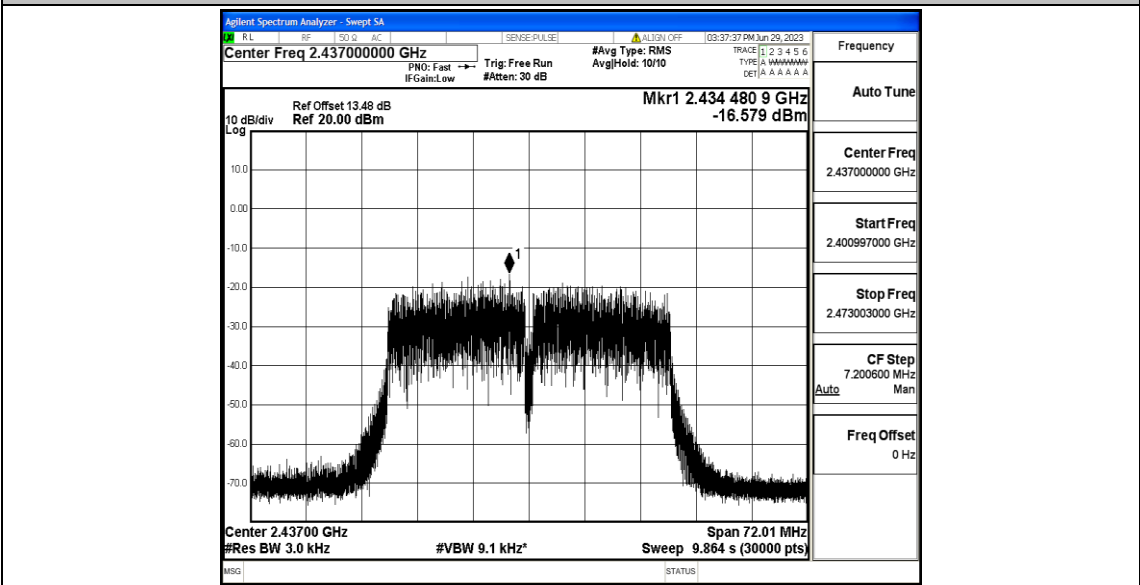
11N20SISO_Ant1_2462



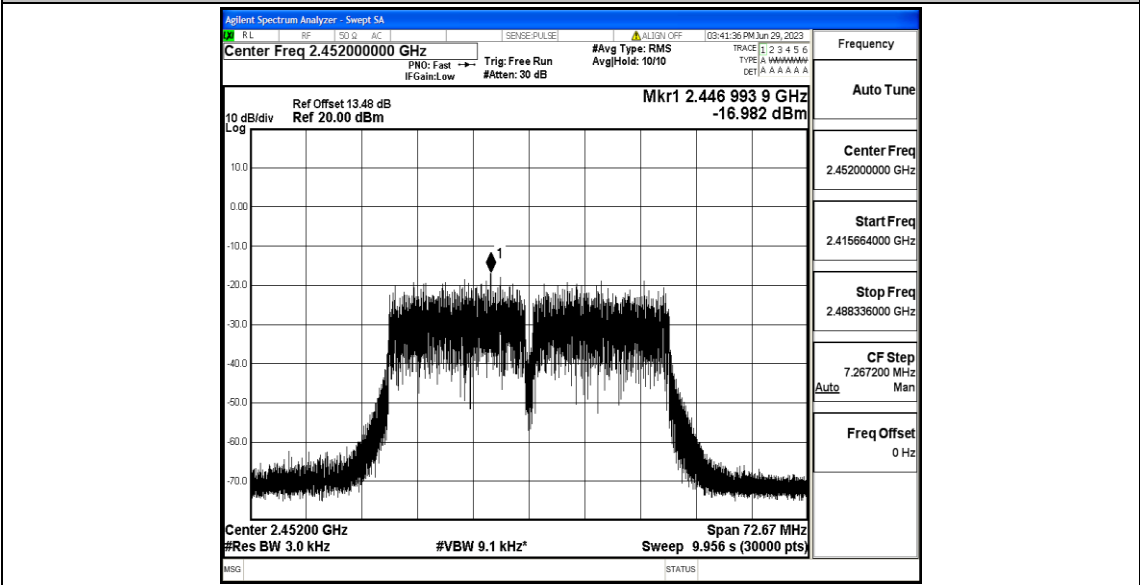
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



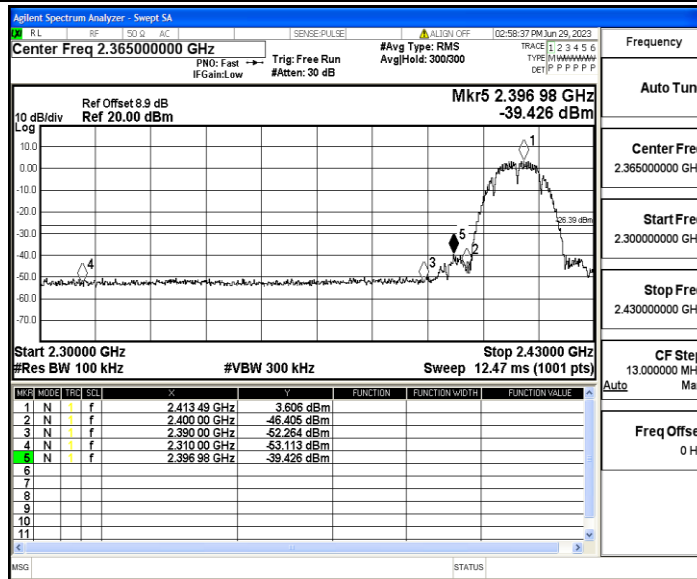
Appendix E: Band edge measurements

Test Result

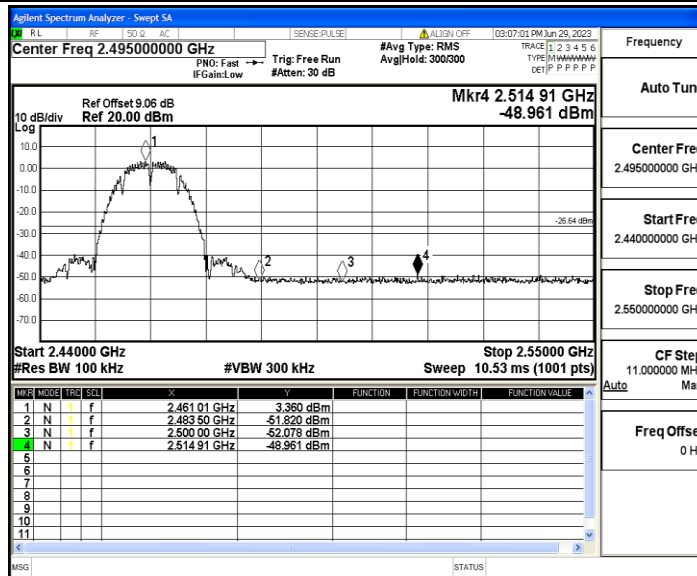
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.61	-39.43	≤-26.39	PASS
		High	2462	3.36	-48.96	≤-26.64	PASS
11G	Ant1	Low	2412	2.55	-37.45	≤-27.45	PASS
		High	2462	2.44	-48.02	≤-27.57	PASS
11N20SISO	Ant1	Low	2412	0.22	-38.15	≤-29.78	PASS
		High	2462	-0.01	-49.26	≤-30.01	PASS
11N40SISO	Ant1	Low	2422	-1.67	-41.39	≤-31.67	PASS
		High	2452	-2.66	-48.74	≤-32.66	PASS

Test Graphs

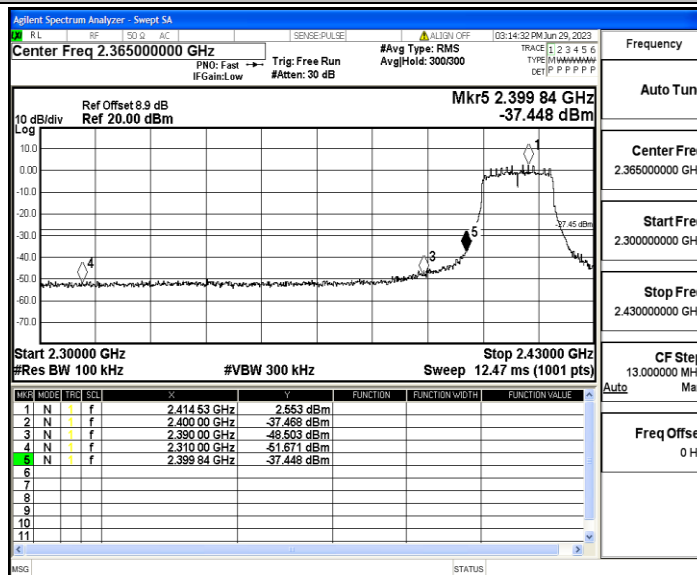
11B_Ant1_Low_2412



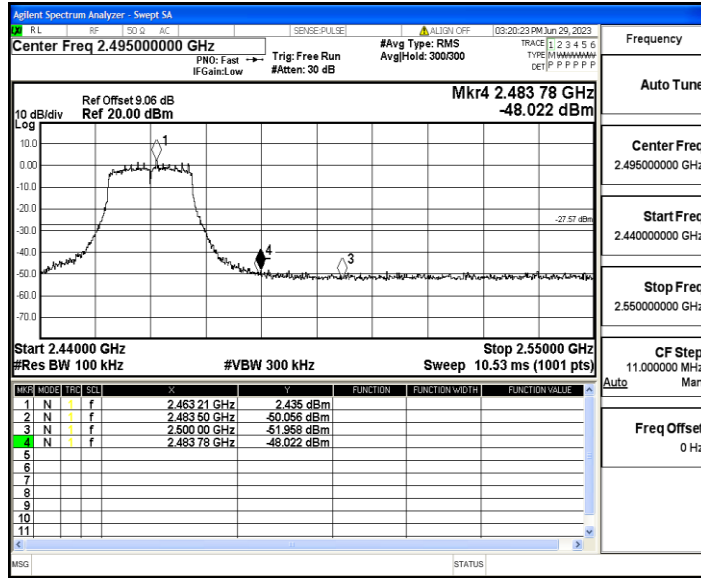
11B_Ant1_High_2462



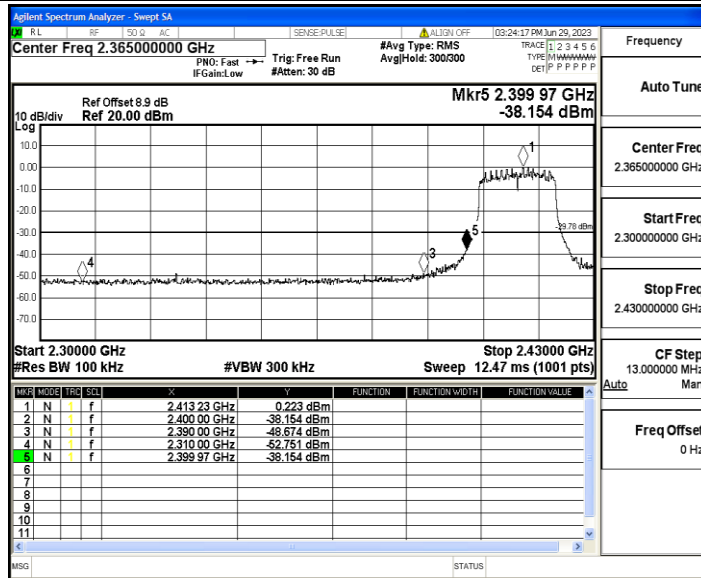
11G_Ant1_Low_2412



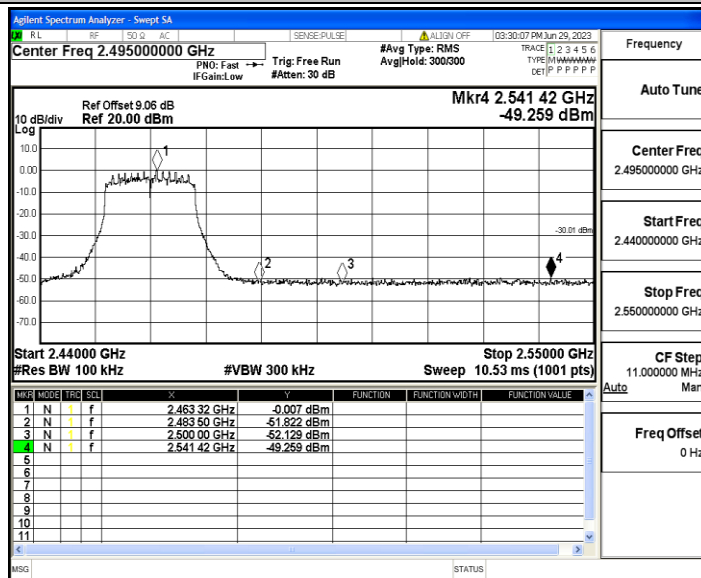
11G_Ant1_High_2462



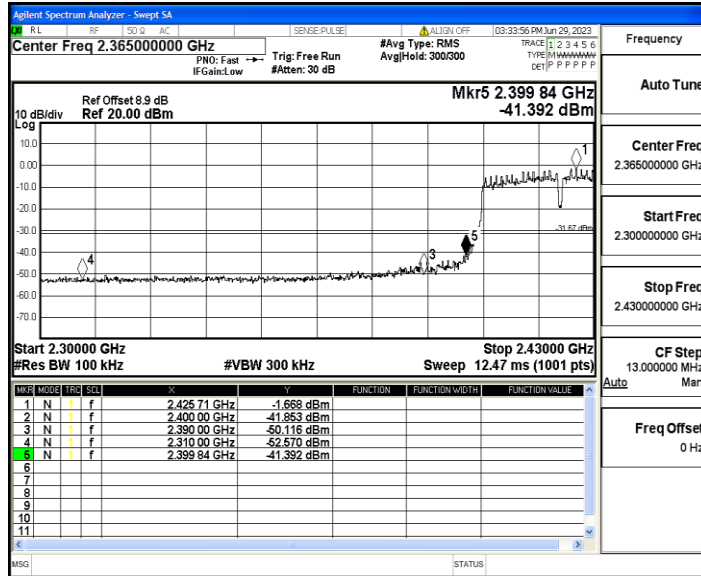
11N20SISO_Ant1_Low_2412



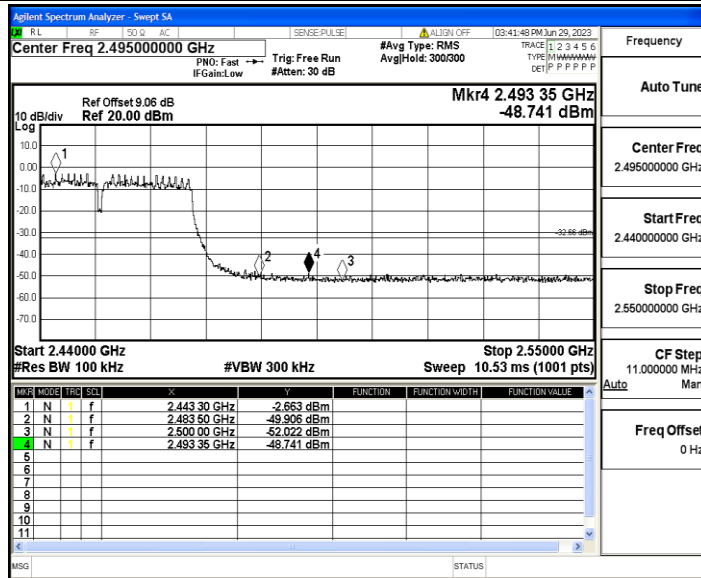
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



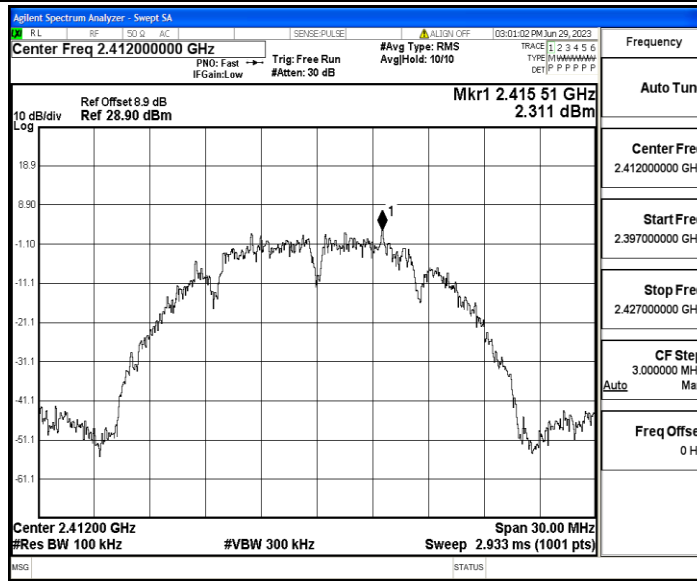
Appendix F: Conducted Spurious Emission

Test Result

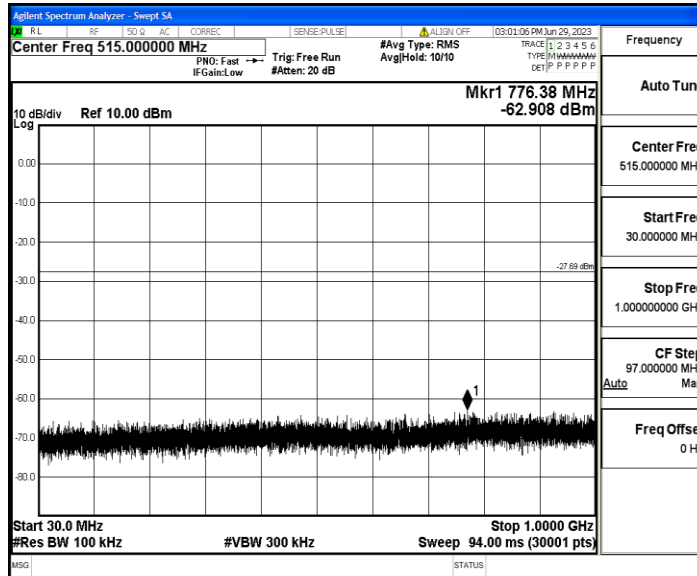
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.31	2.31	---	PASS
			30~1000	2.31	-62.91	≤-27.69	PASS
			1000~26500	2.31	-49.24	≤-27.69	PASS
		2437	Reference	3.70	3.70	---	PASS
			30~1000	3.70	-62.89	≤-26.3	PASS
			1000~26500	3.70	-49.4	≤-26.3	PASS
		2462	Reference	2.81	2.81	---	PASS
			30~1000	2.81	-61.82	≤-27.19	PASS
			1000~26500	2.81	-49.45	≤-27.19	PASS
11G	Ant1	2412	Reference	1.42	1.42	---	PASS
			30~1000	1.42	-63.26	≤-28.58	PASS
			1000~26500	1.42	-48.75	≤-28.58	PASS
		2437	Reference	2.46	2.46	---	PASS
			30~1000	2.46	-62.73	≤-27.54	PASS
			1000~26500	2.46	-49.71	≤-27.54	PASS
		2462	Reference	-0.51	-0.51	---	PASS
			30~1000	-0.51	-62.72	≤-30.51	PASS
			1000~26500	-0.51	-49.39	≤-30.51	PASS
11N20SISO	Ant1	2412	Reference	-1.72	-1.72	---	PASS
			30~1000	-1.72	-62.8	≤-31.72	PASS
			1000~26500	-1.72	-49.96	≤-31.72	PASS
		2437	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-62.53	≤-29.68	PASS
			1000~26500	0.32	-50.11	≤-29.68	PASS
		2462	Reference	-2.77	-2.77	---	PASS
			30~1000	-2.77	-62.33	≤-32.77	PASS
			1000~26500	-2.77	-49.92	≤-32.77	PASS
11N40SISO	Ant1	2422	Reference	-2.40	-2.40	---	PASS
			30~1000	-2.40	-62.06	≤-32.4	PASS
			1000~26500	-2.40	-49.63	≤-32.4	PASS
		2437	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-62.71	≤-32.25	PASS
			1000~26500	-2.25	-50.16	≤-32.25	PASS
		2452	Reference	-3.00	-3.00	---	PASS
			30~1000	-3.00	-62.95	≤-33	PASS
			1000~26500	-3.00	-50.12	≤-33	PASS

Test Graphs

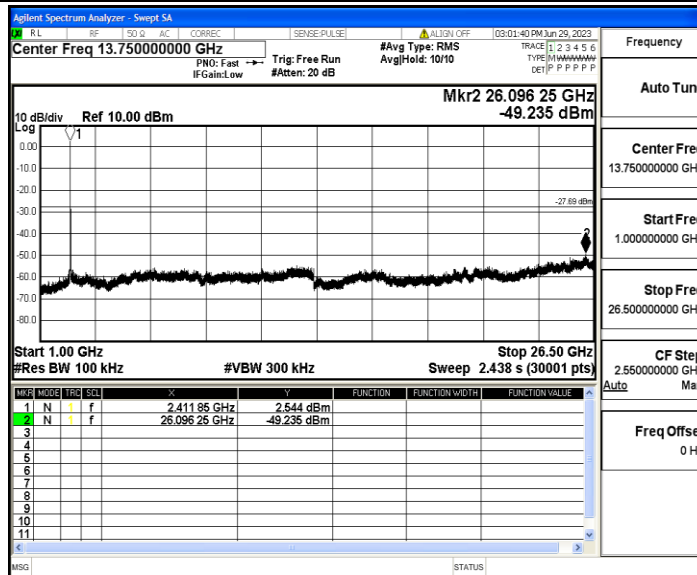
11B_Ant1_2412_0~Reference



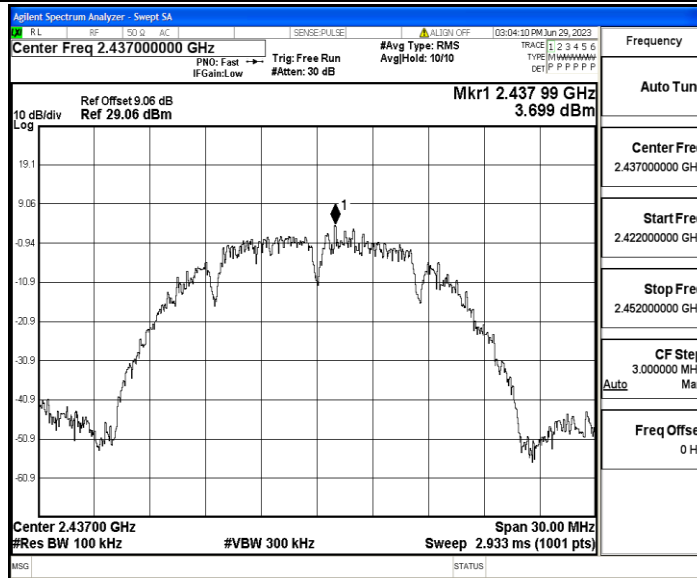
11B_Ant1_2412_30~1000



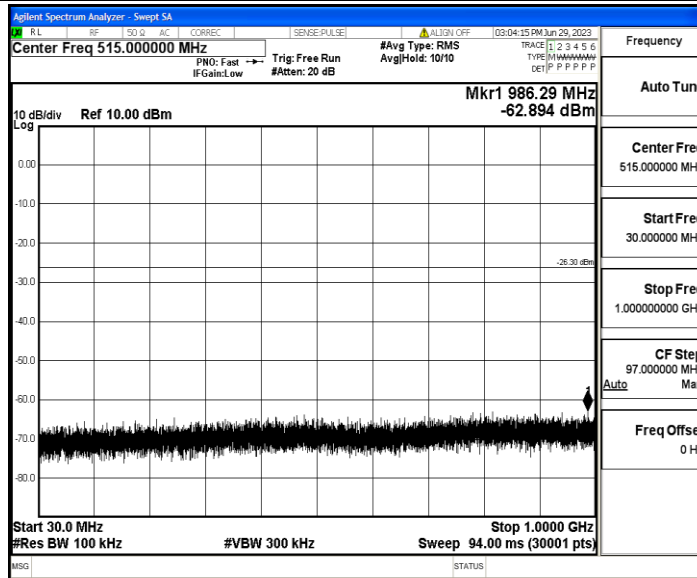
11B_Ant1_2412_1000~26500



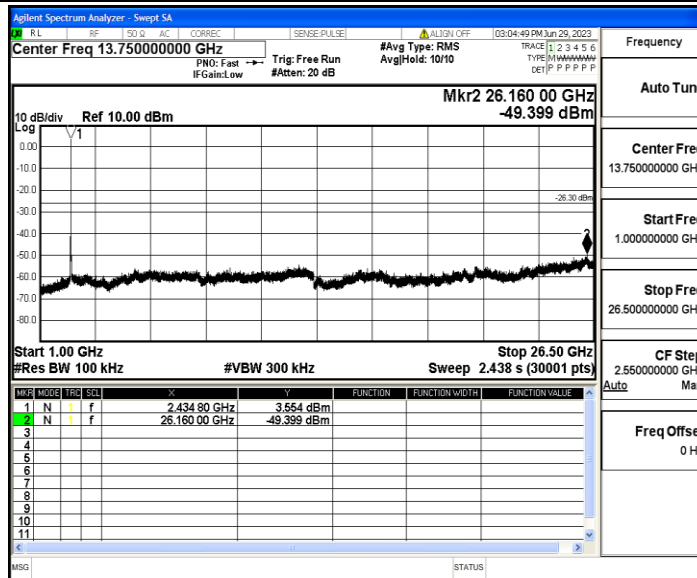
11B_Ant1_2437_0~Reference



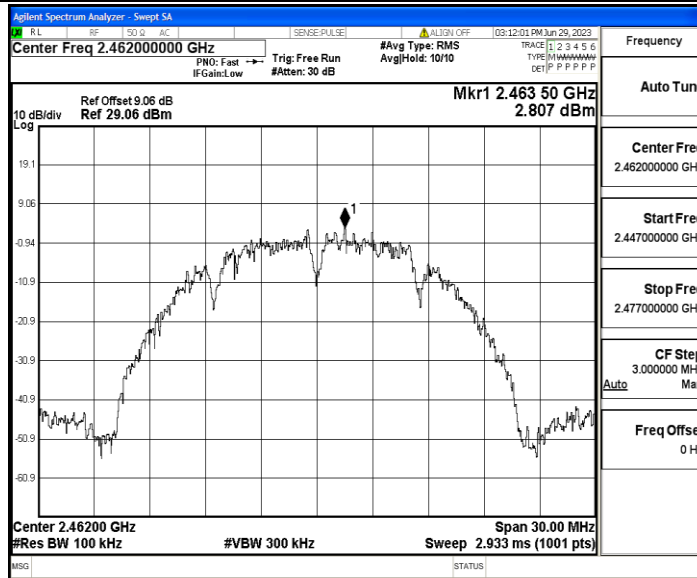
11B_Ant1_2437_30~1000



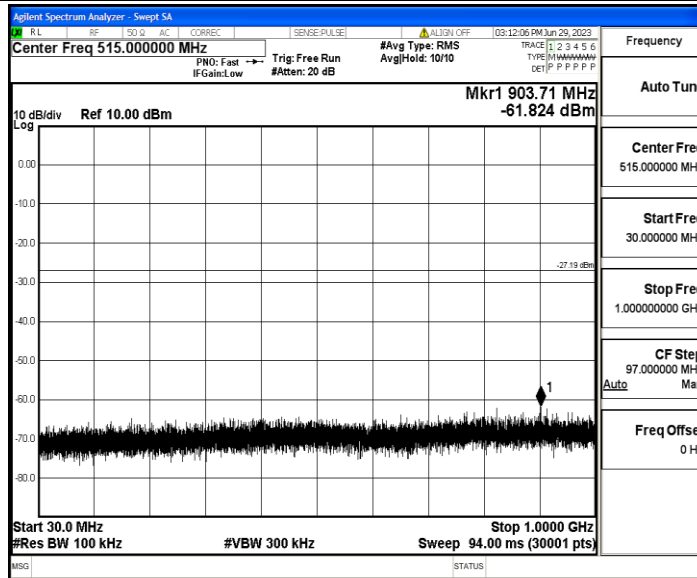
11B_Ant1_2437_1000~26500



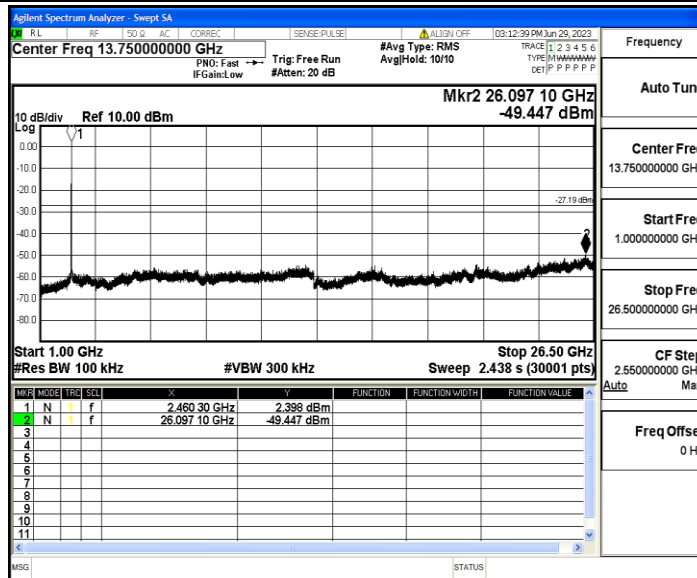
11B_Ant1_2462_0~Reference



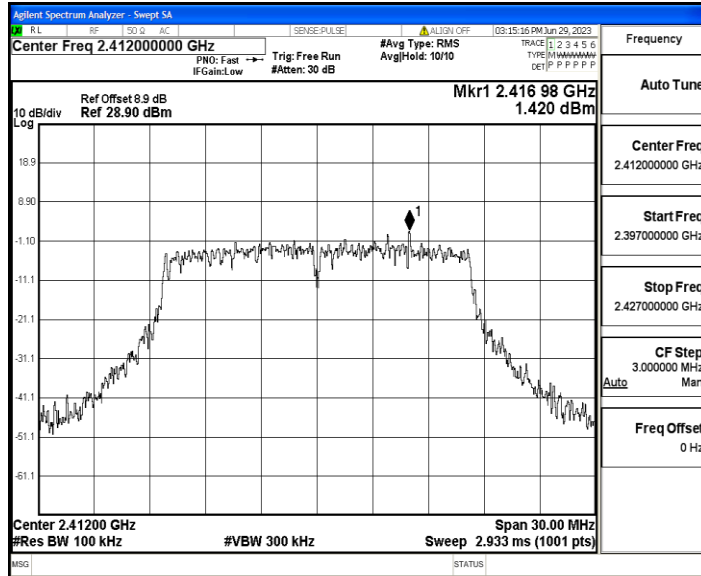
11B_Ant1_2462_30~1000



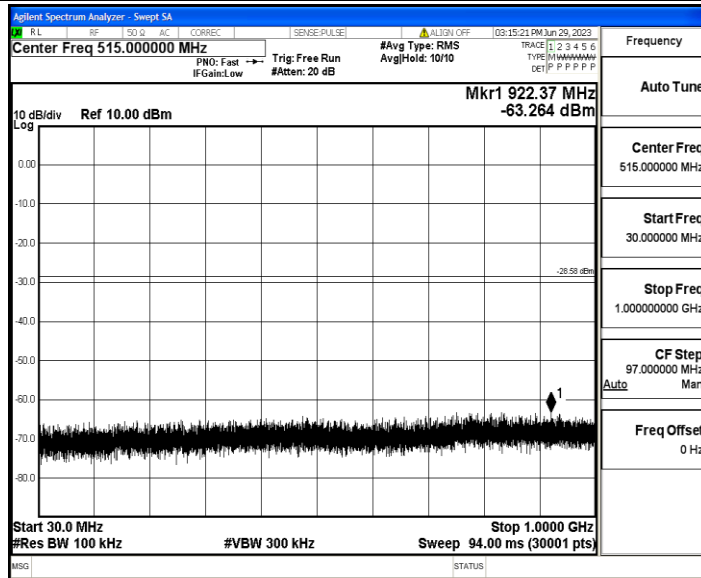
11B_Ant1_2462_1000~26500



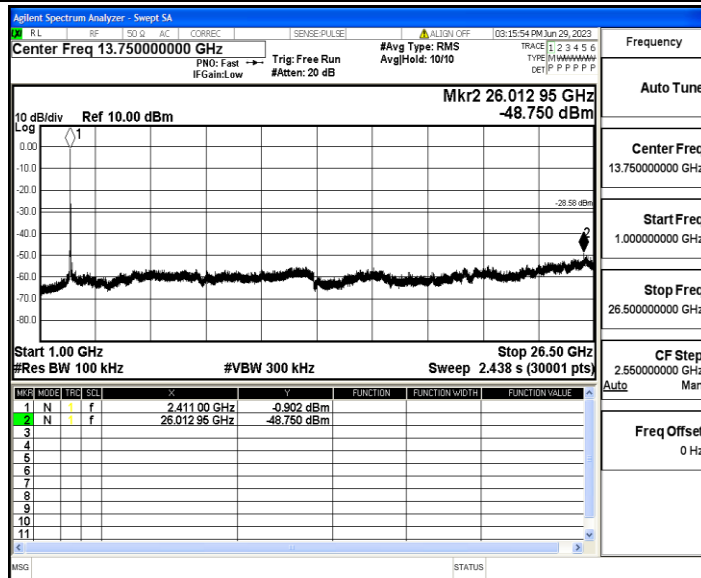
11G_Ant1_2412_0~Reference



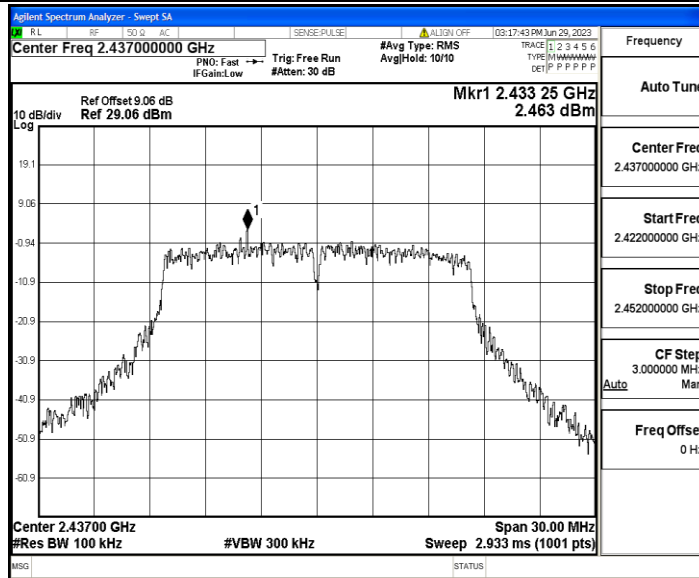
11G_Ant1_2412_30~1000



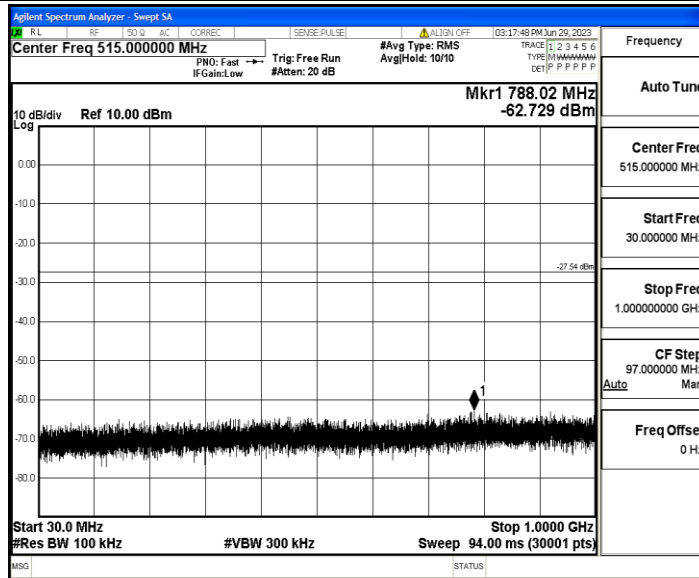
11G_Ant1_2412_1000~26500



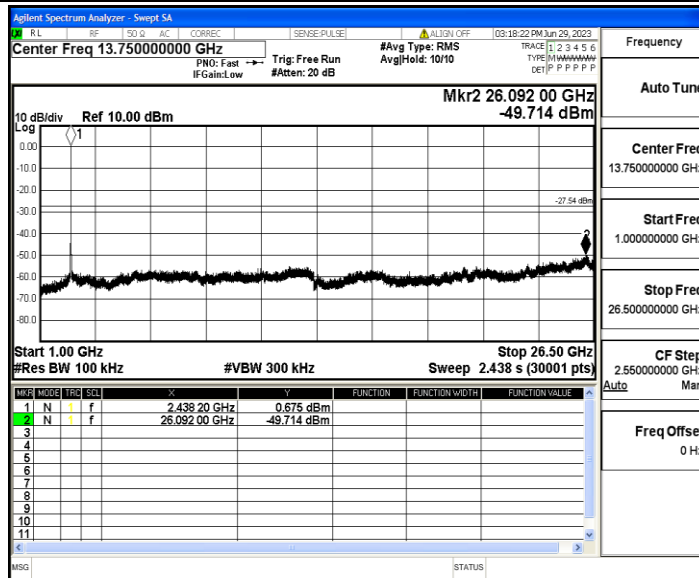
11G_Ant1_2437_0~Reference



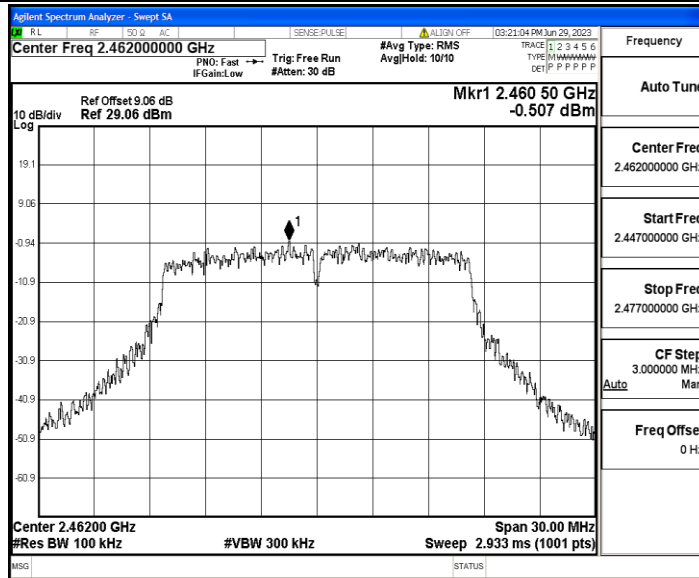
11G_Ant1_2437_30~1000



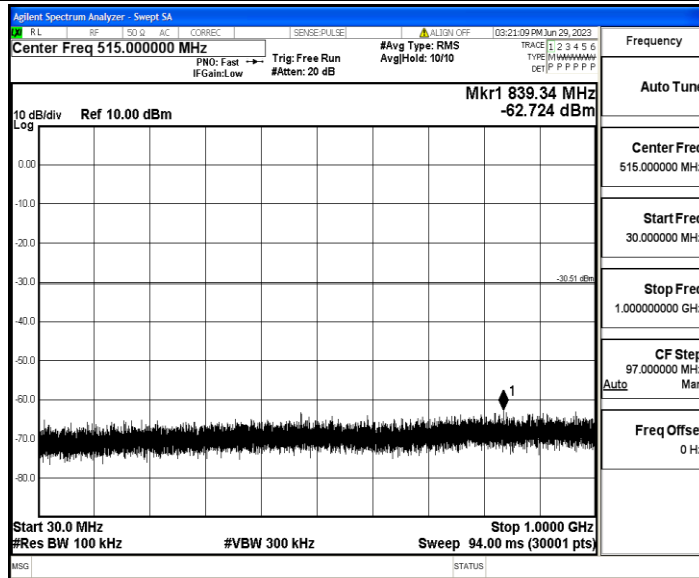
11G_Ant1_2437_1000~26500



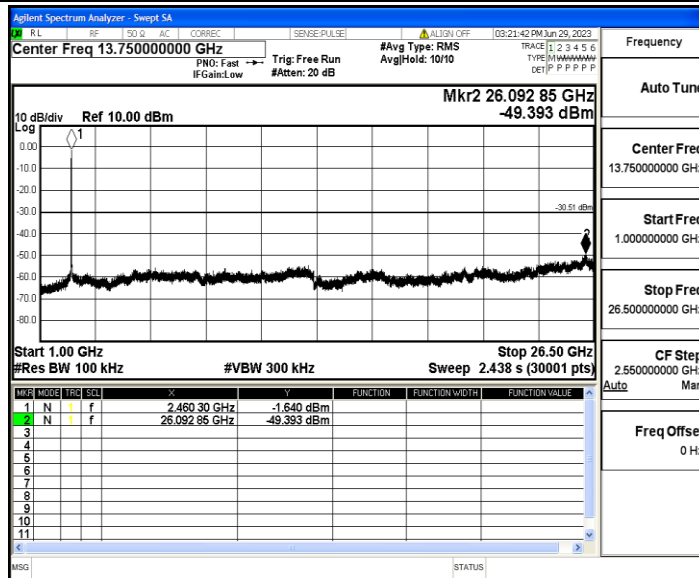
11G_Ant1_2462_0~Reference



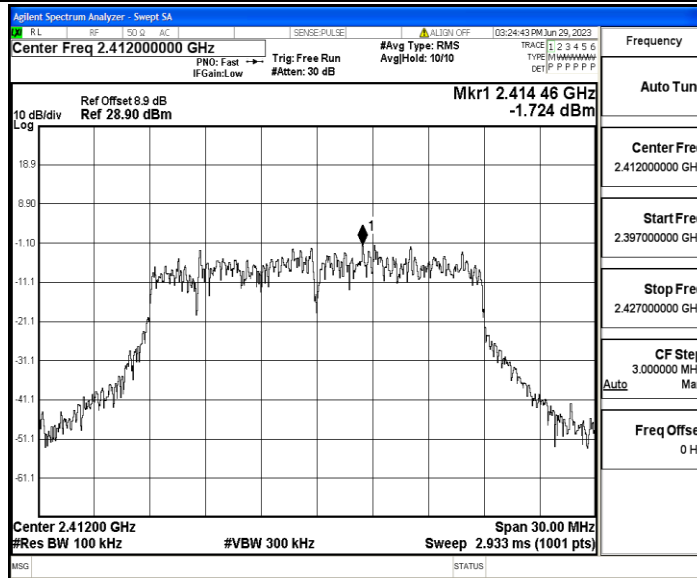
11G_Ant1_2462_30~1000



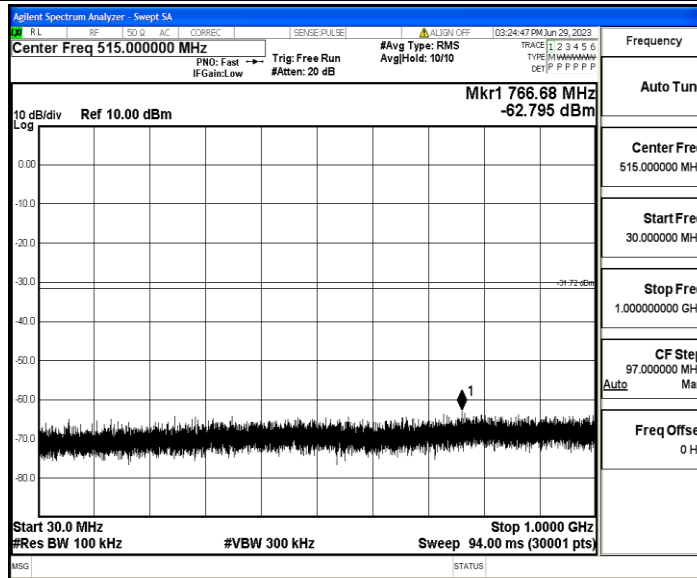
11G_Ant1_2462_1000~26500



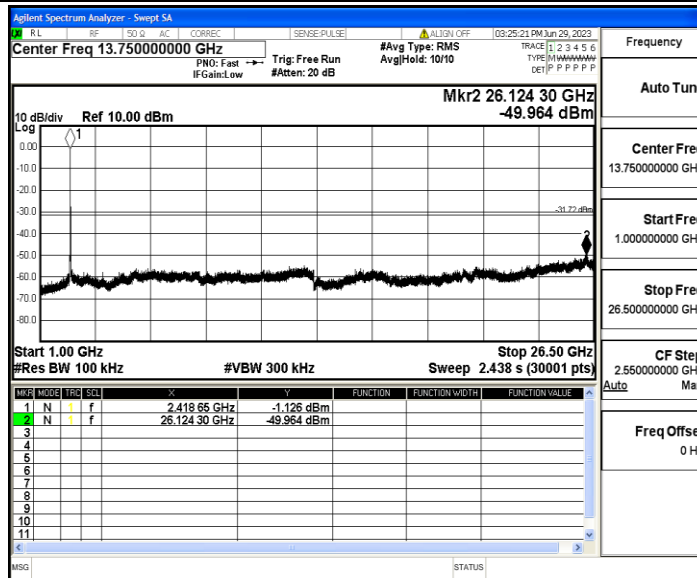
11N20SISO_Ant1_2412_0~Reference



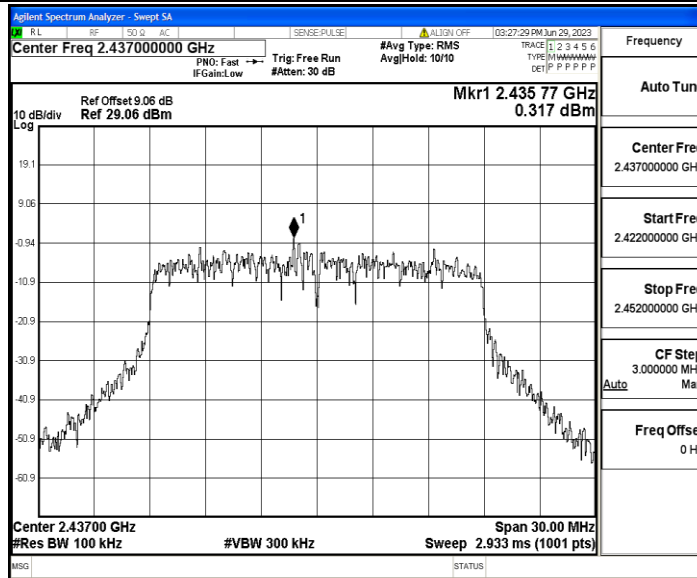
11N20SISO_Ant1_2412_30~1000



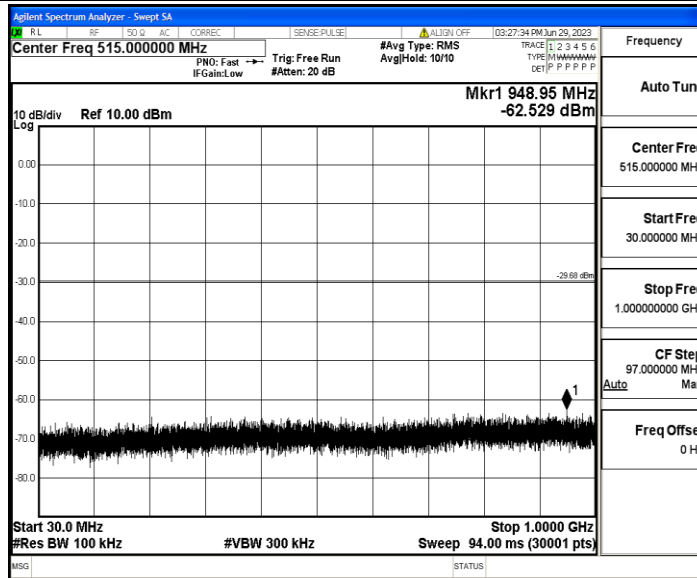
11N20SISO_Ant1_2412_1000~26500



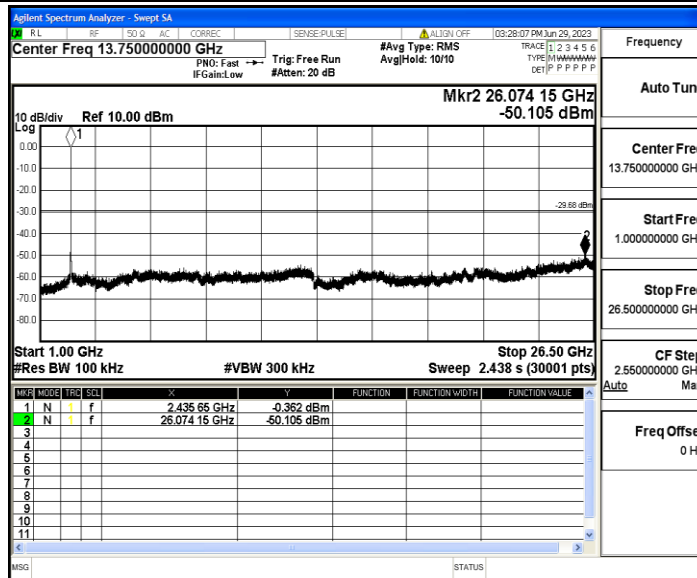
11N20SISO_Ant1_2437_0~Reference



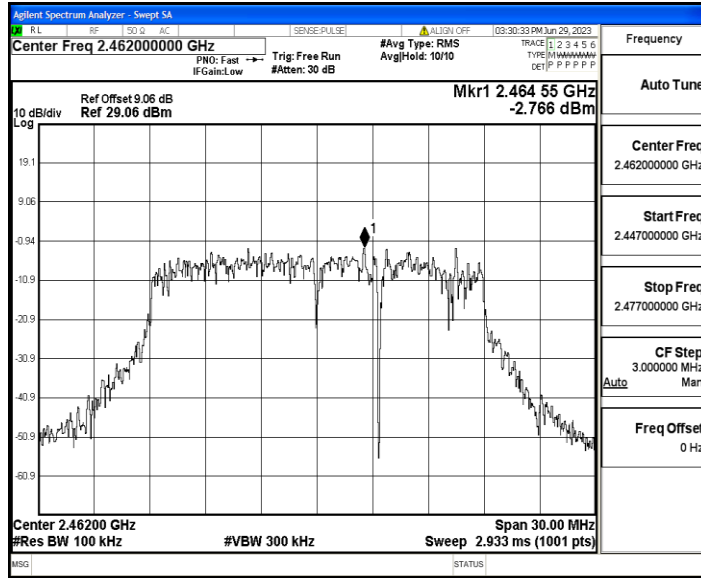
11N20SISO_Ant1_2437_30~1000



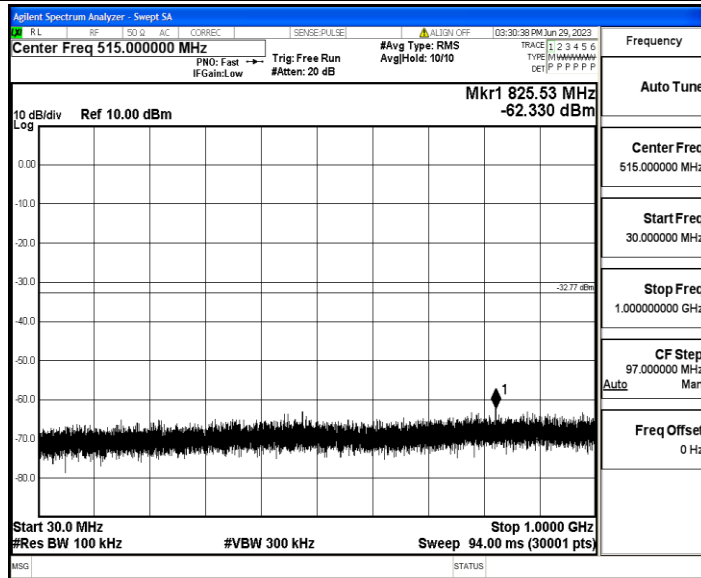
11N20SISO_Ant1_2437_1000~26500



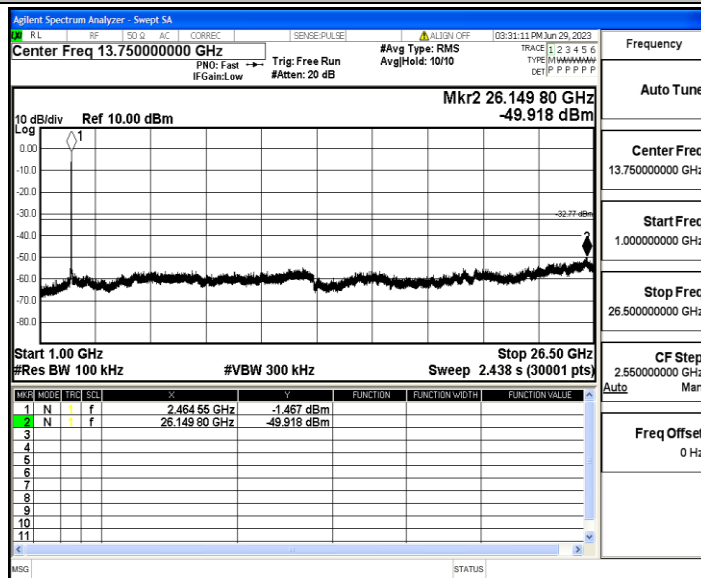
11N20SISO_Ant1_2462_0~Reference



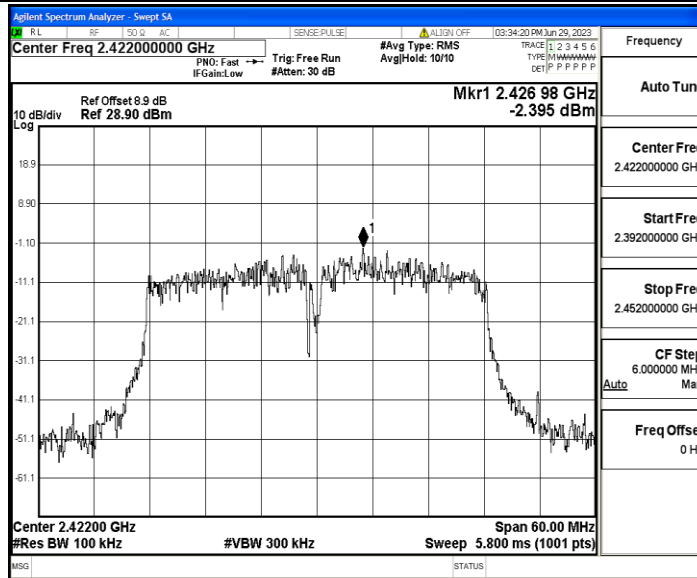
11N20SISO_Ant1_2462_30~1000



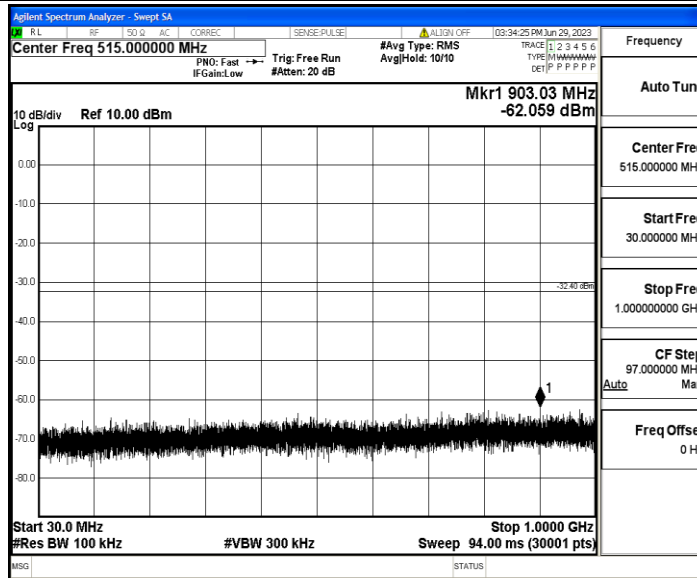
11N20SISO_Ant1_2462_1000~26500



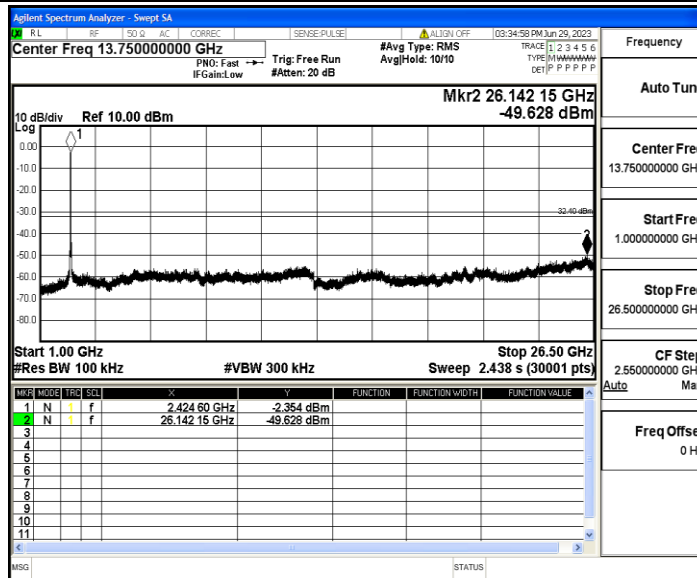
11N40SISO_Ant1_2422_0~Reference



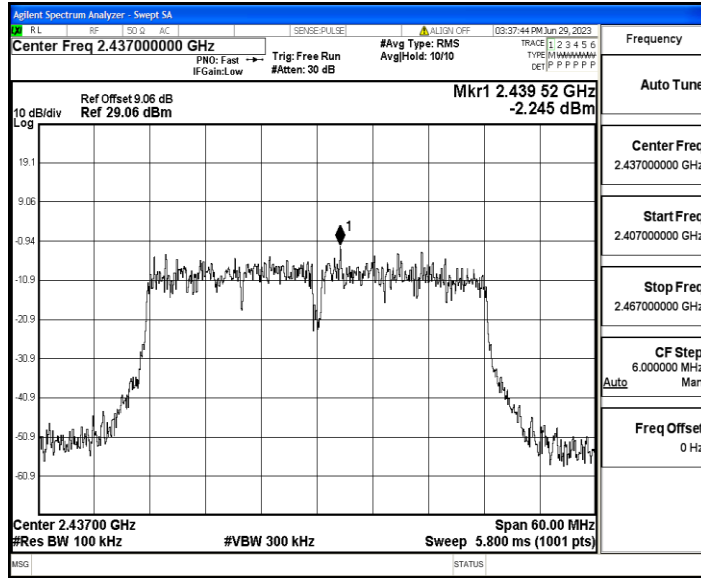
11N40SISO_Ant1_2422_30~1000



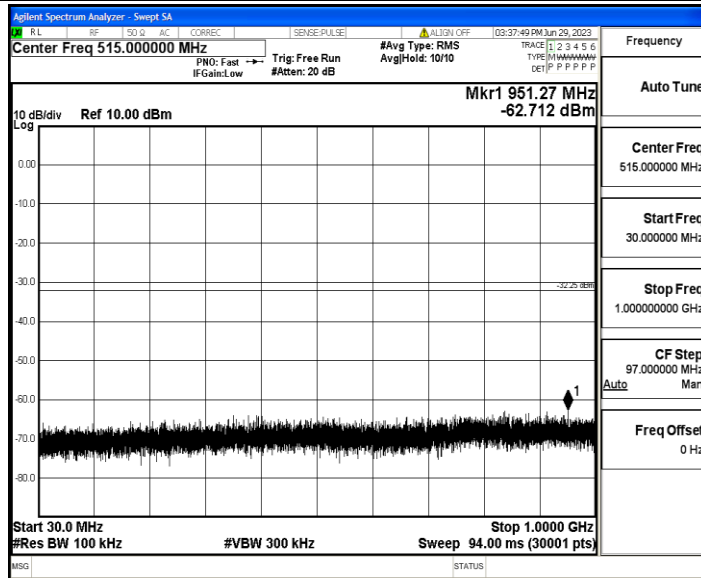
11N40SISO_Ant1_2422_1000~26500



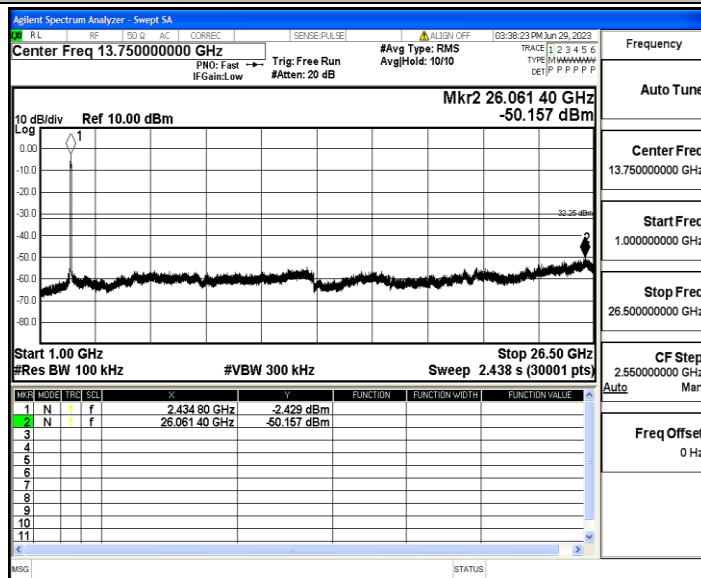
11N40SISO_Ant1_2437_0~Reference



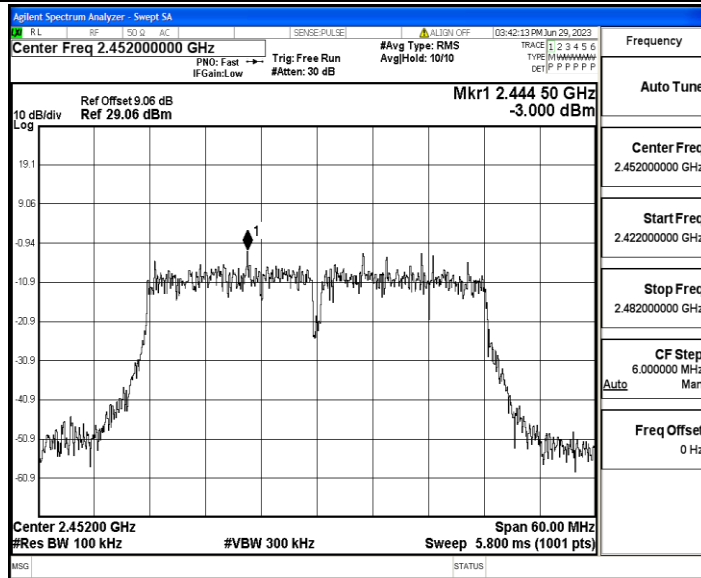
11N40SISO_Ant1_2437_30~1000



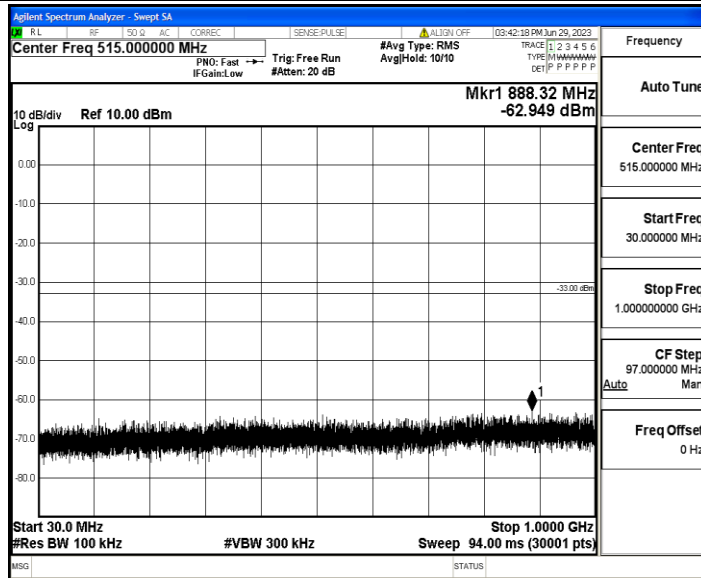
11N40SISO_Ant1_2437_1000~26500



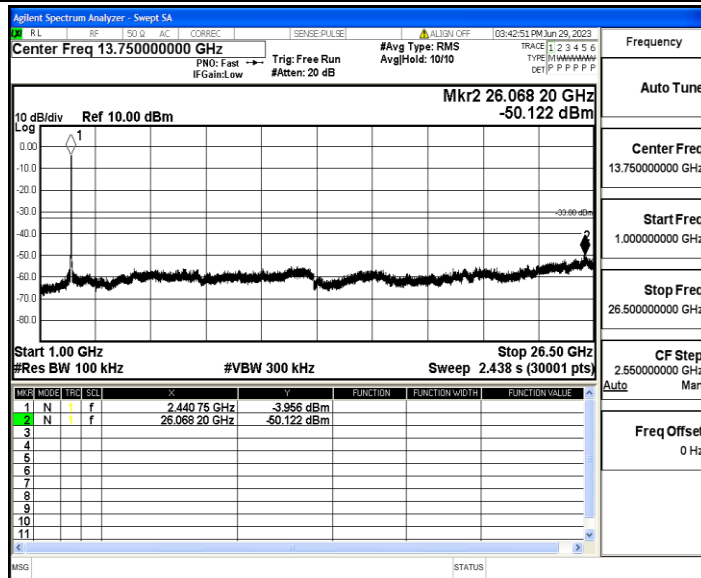
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500

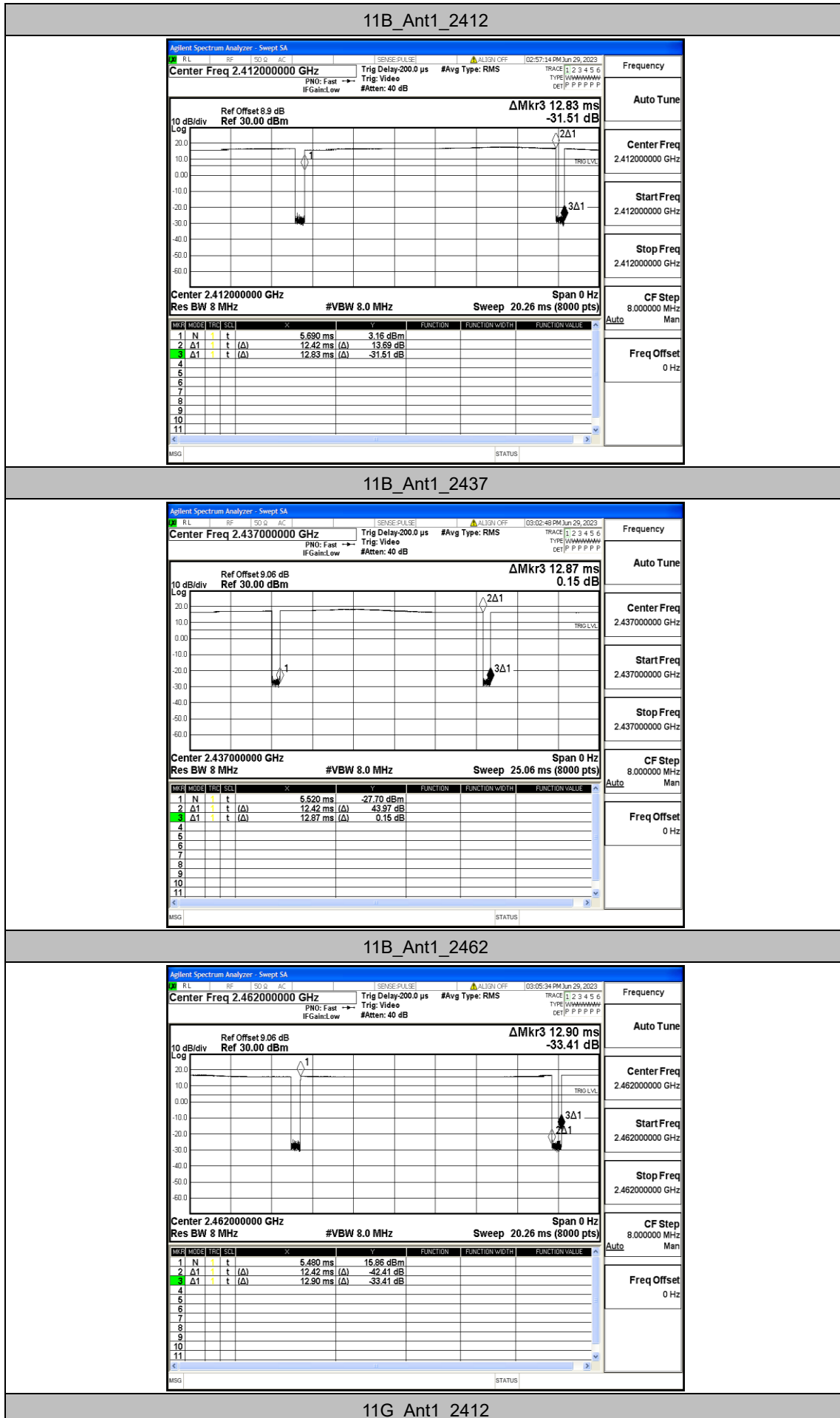


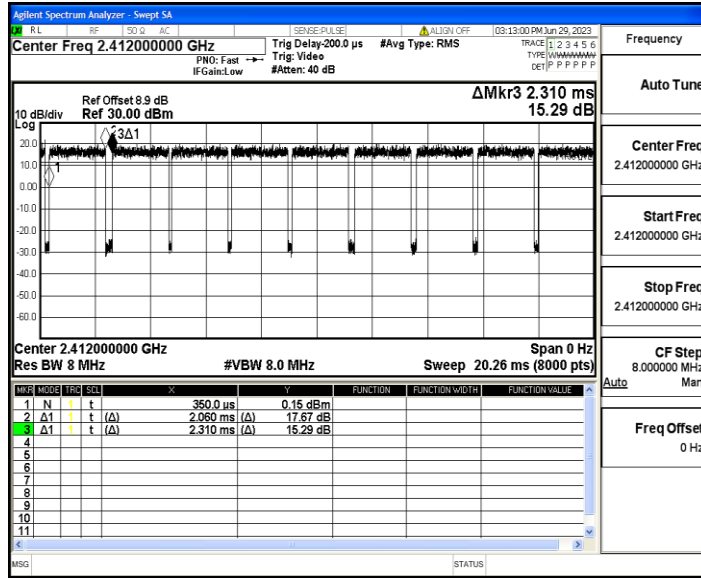
Appendix G: Duty Cycle

Test Result

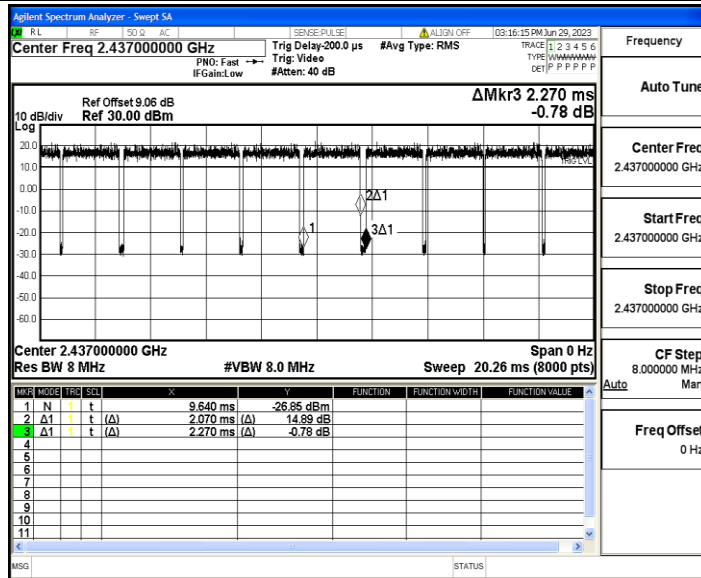
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
11B	Ant1	2412	12.42	12.83	96.80	0.08
		2437	12.42	12.87	96.50	0.08
		2462	12.42	12.90	96.28	0.08
11G	Ant1	2412	2.06	2.31	89.18	0.49
		2437	2.07	2.27	91.19	0.48
		2462	2.06	2.29	89.96	0.49
11N20SISO	Ant1	2412	0.23	0.46	50.00	4.35
		2437	0.22	0.46	47.83	4.55
		2462	0.22	0.45	48.89	4.55
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

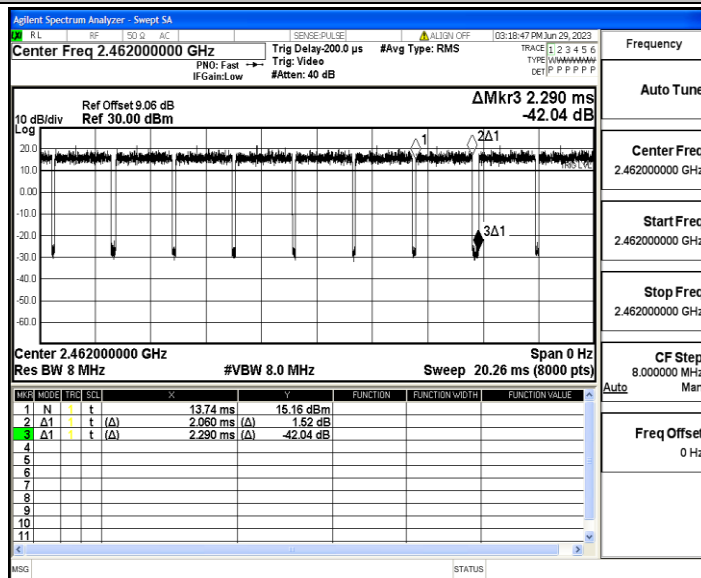




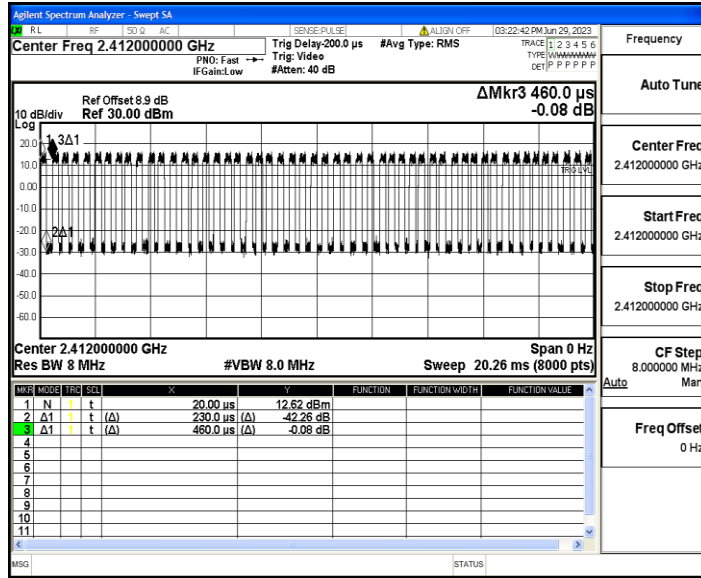
11G_Ant1_2437



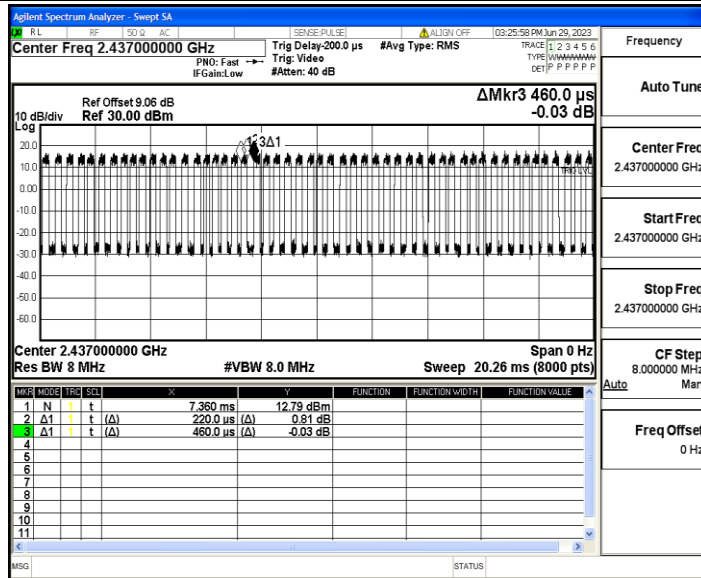
11G_Ant1_2462



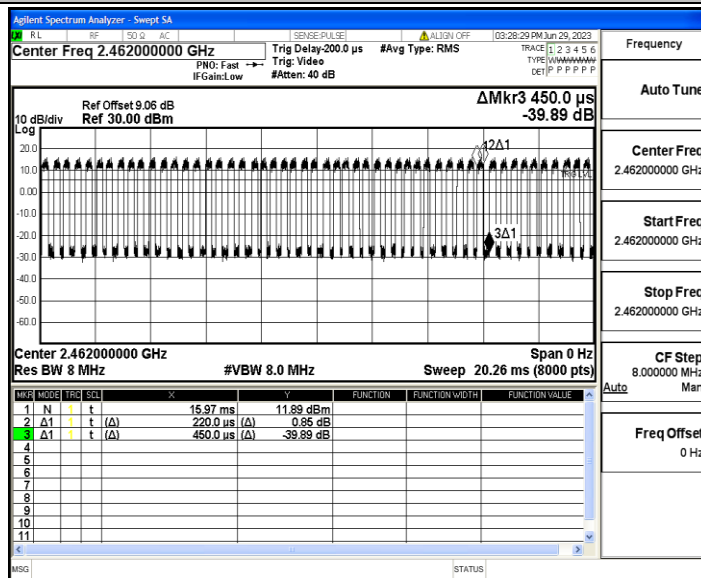
11N20SISO_Ant1_2412



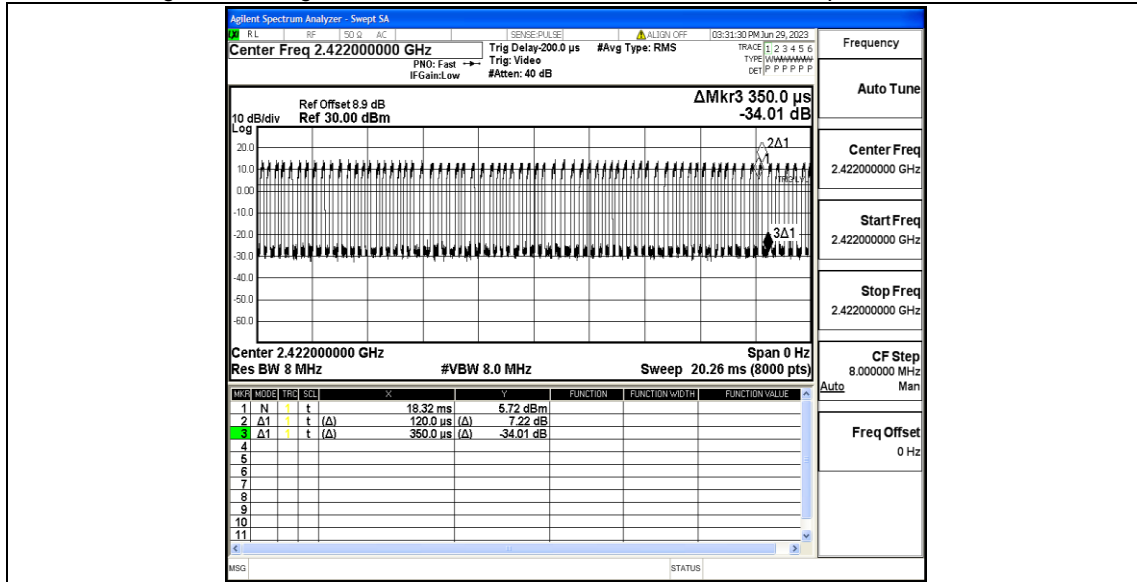
11N20SISO_Ant1_2437



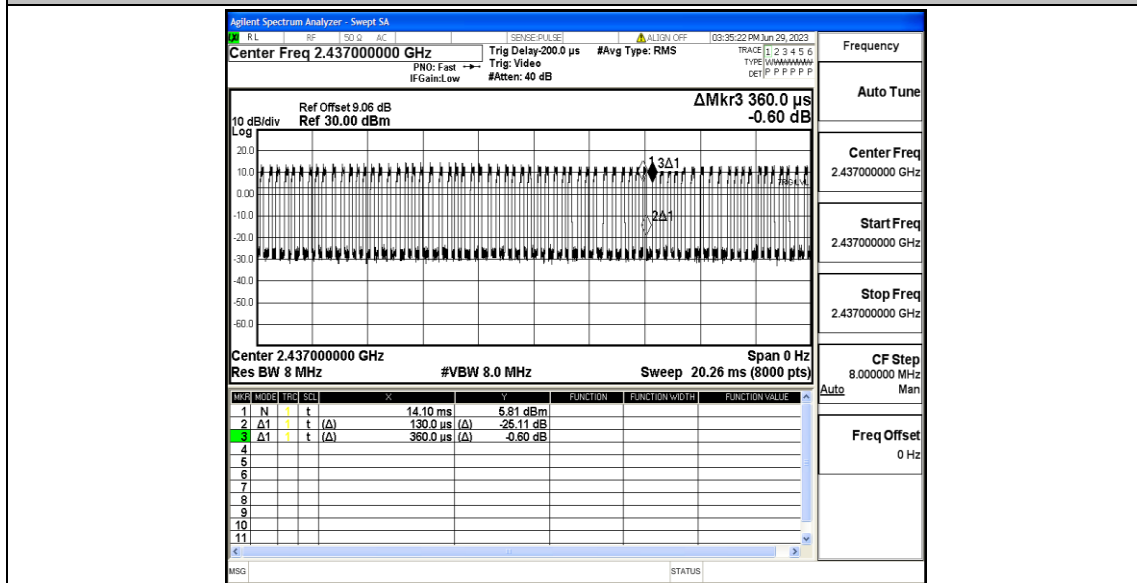
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

