

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

Product Name: Air WiFi Feeder

Trade Mark: PETLIBRO

Test Model: PLAF301

FCC ID: 2A3DE-PLAF301

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

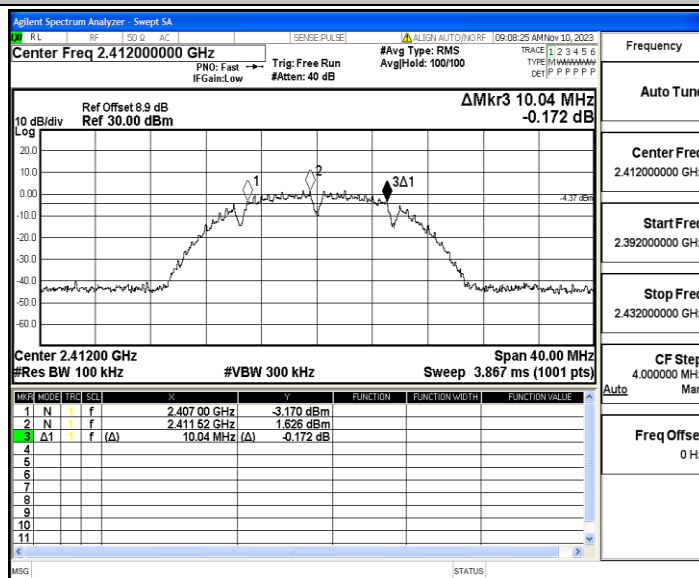
Appendix A: DTS Bandwidth

Test Result

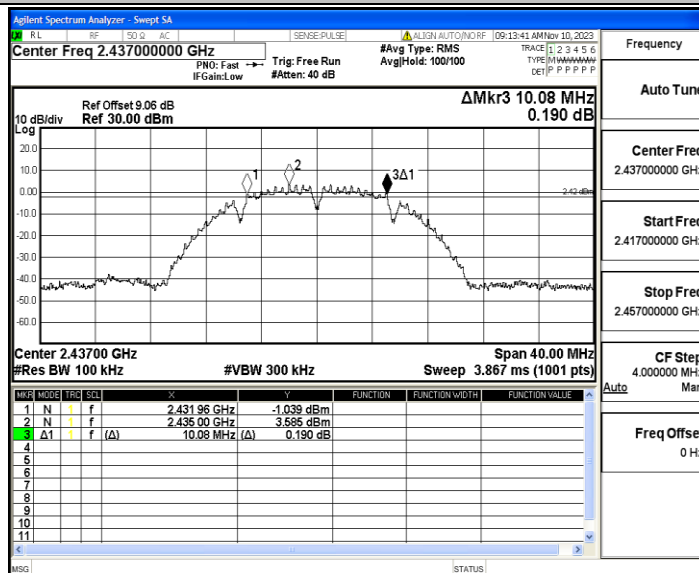
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2407.000	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.120	2428.880	2445.000	0.5	PASS
		2462	16.040	2454.080	2470.120	0.5	PASS
11N20SISO	Ant1	2412	16.560	2403.520	2420.080	0.5	PASS
		2437	16.800	2428.480	2445.280	0.5	PASS
		2462	15.960	2453.840	2469.800	0.5	PASS
11N40SISO	Ant1	2422	34.080	2404.480	2438.560	0.5	PASS
		2437	35.360	2419.400	2454.760	0.5	PASS
		2452	33.840	2435.680	2469.520	0.5	PASS

Test Graphs

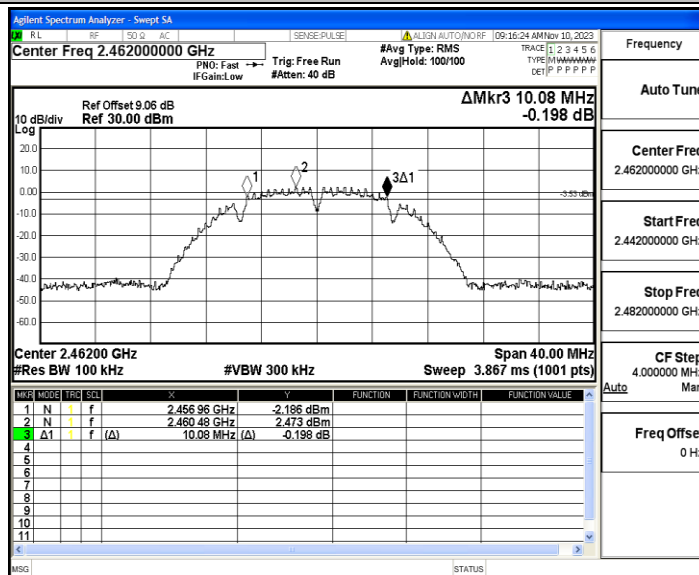
11B_Ant1_2412



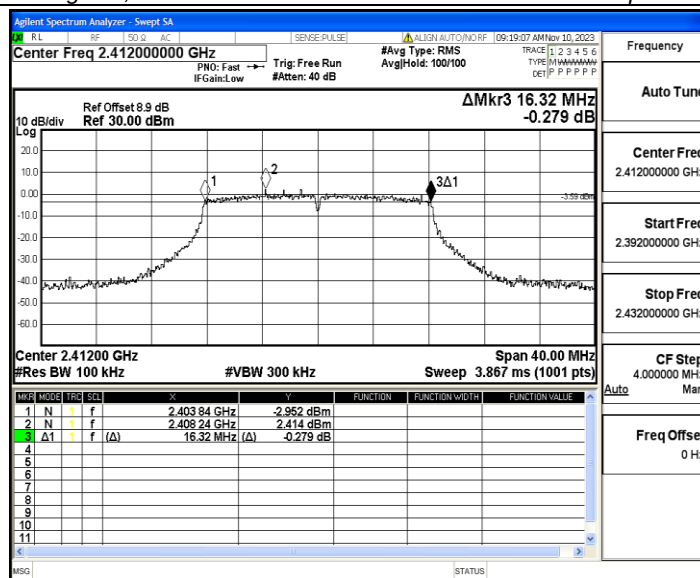
11B_Ant1_2437



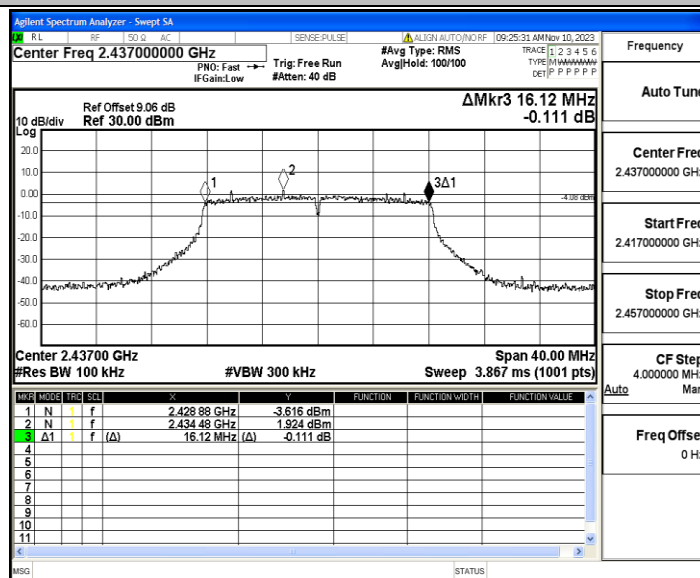
11B_Ant1_2462



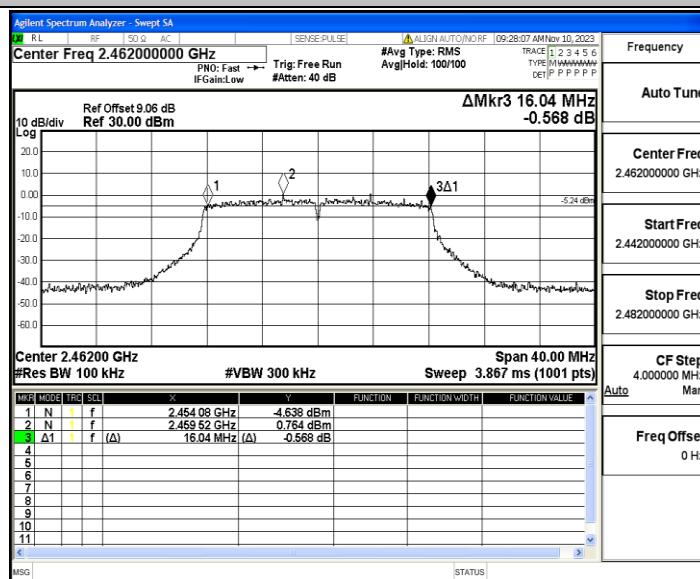
11G_Ant1_2412



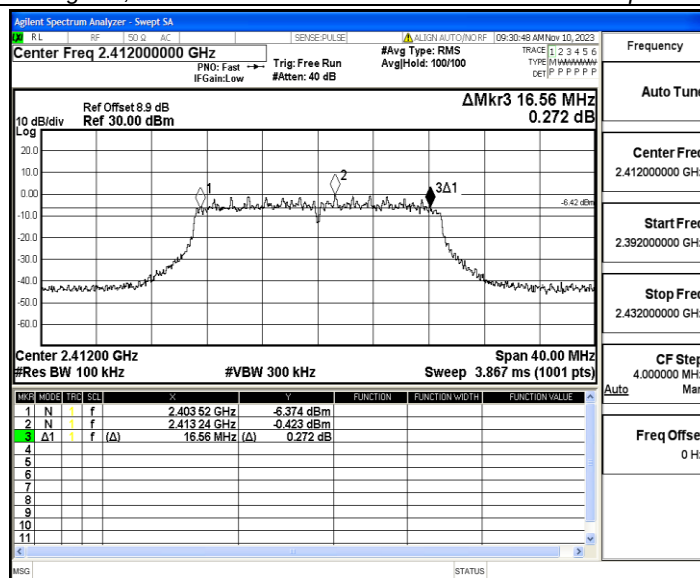
11G_Ant1_2437



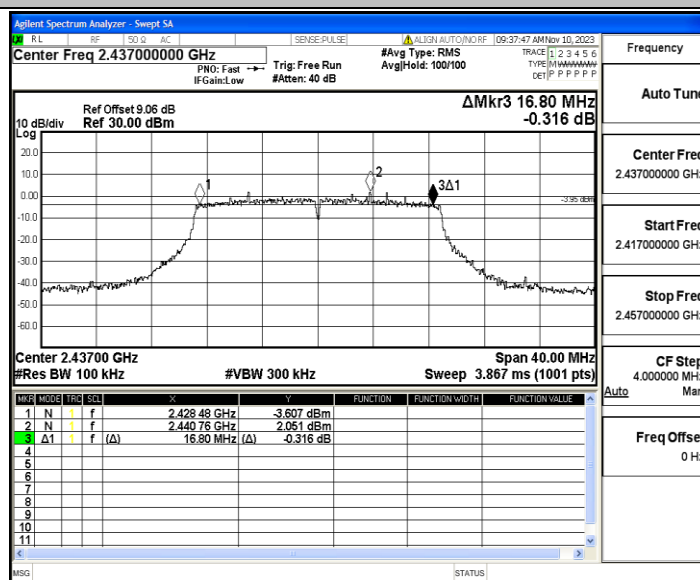
11G_Ant1_2462



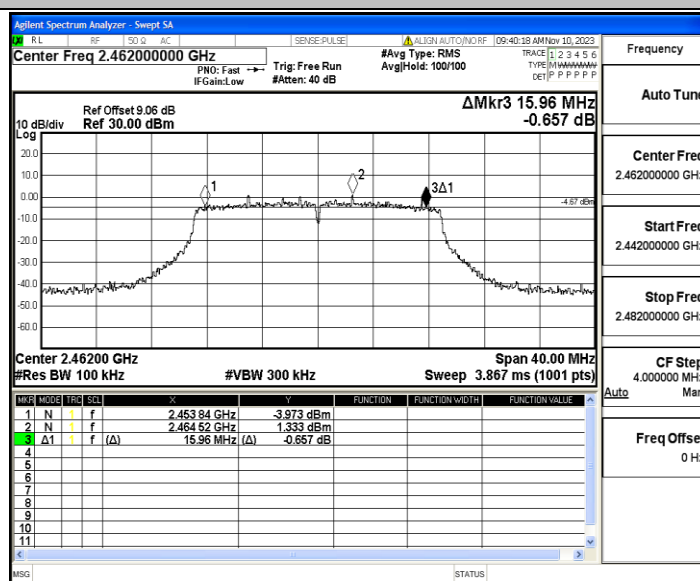
11N20SISO_Ant1_2412



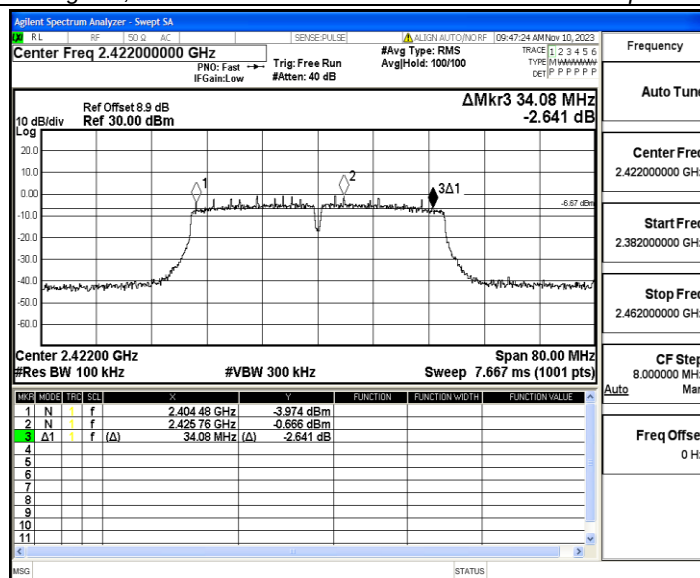
11N20SISO_Ant1_2437



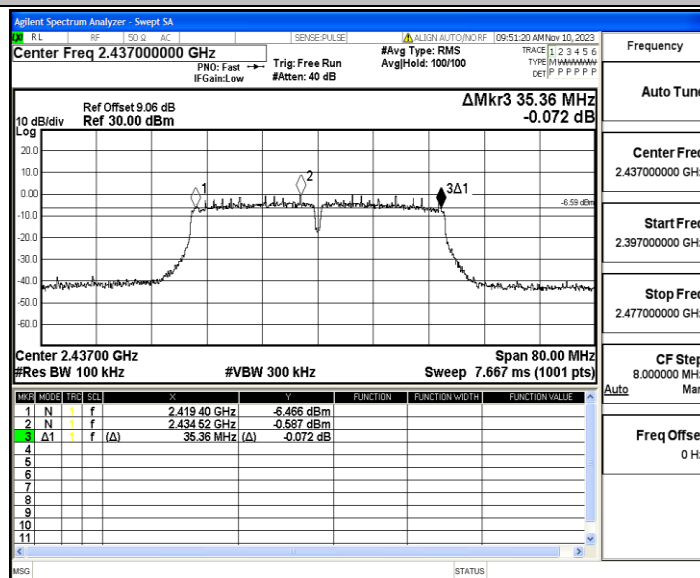
11N20SISO_Ant1_2462



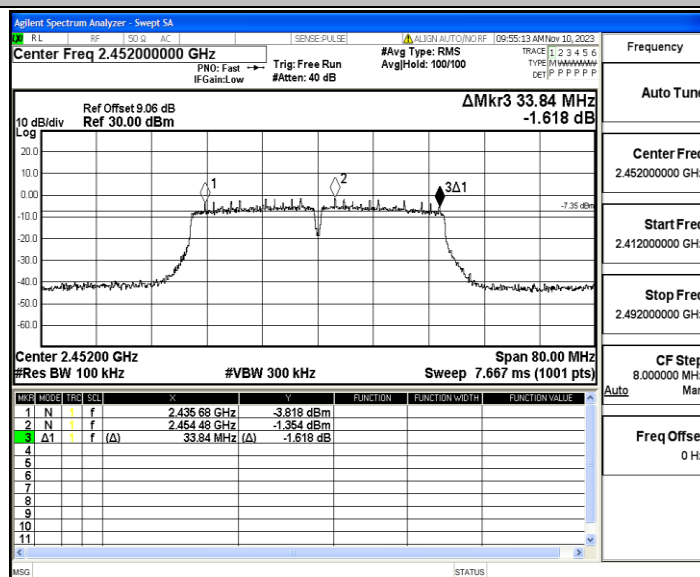
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



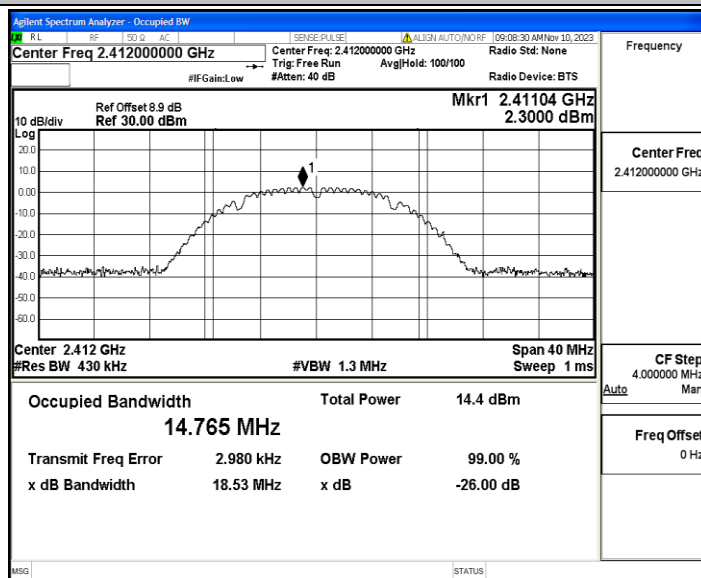
Appendix B: Occupied Channel Bandwidth

Test Result

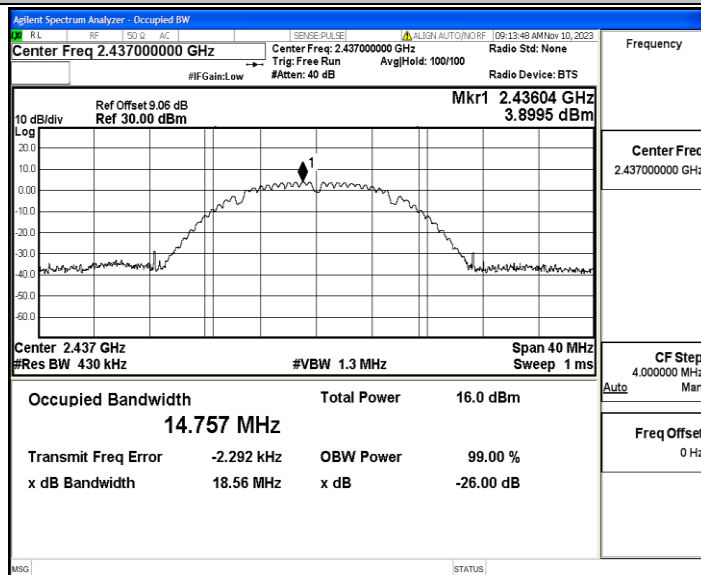
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.765	2404.6205	2419.3855	---	---
		2437	14.757	2429.6192	2444.3762	---	---
		2462	14.774	2454.6228	2469.3968	---	---
11G	Ant1	2412	16.780	2403.6188	2420.3988	---	---
		2437	16.658	2428.6959	2445.3539	---	---
		2462	16.746	2453.7047	2470.4507	---	---
11N20SISO	Ant1	2412	17.705	2403.1852	2420.8902	---	---
		2437	17.856	2428.0961	2445.9521	---	---
		2462	17.857	2453.0865	2470.9435	---	---
11N40SISO	Ant1	2422	36.177	2403.9785	2440.1555	---	---
		2437	36.155	2419.0086	2455.1636	---	---
		2452	36.275	2433.9444	2470.2194	---	---

Test Graphs

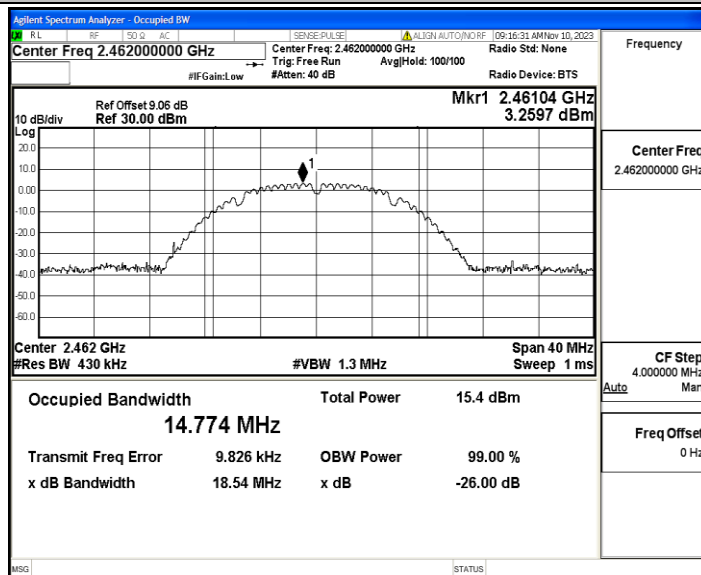
11B_Ant1_2412



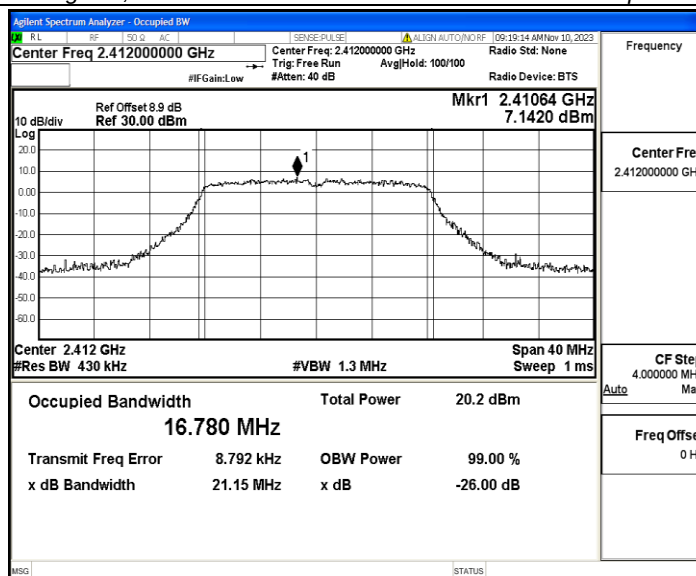
11B_Ant1_2437



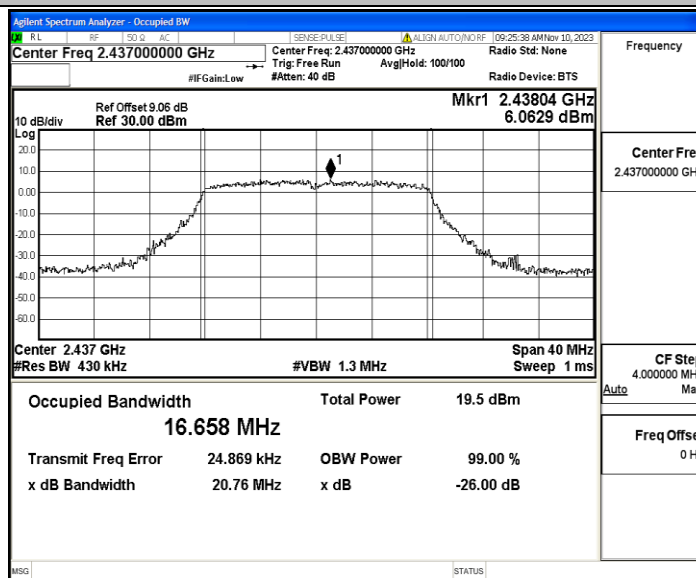
11B_Ant1_2462



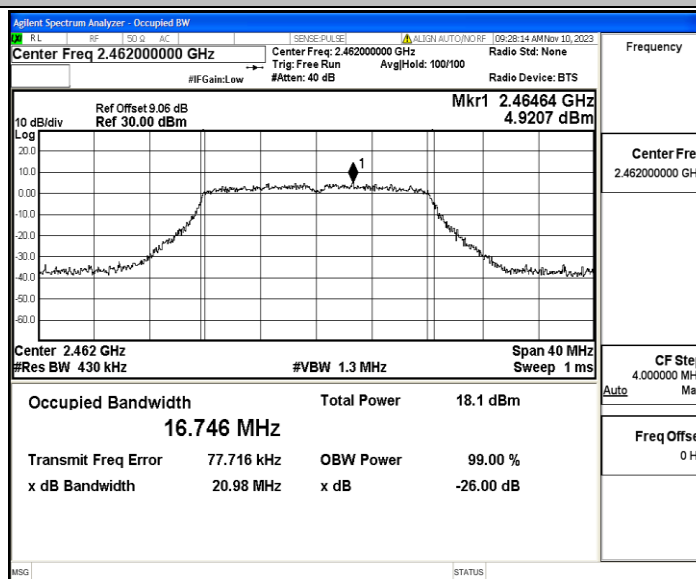
11G_Ant1_2412



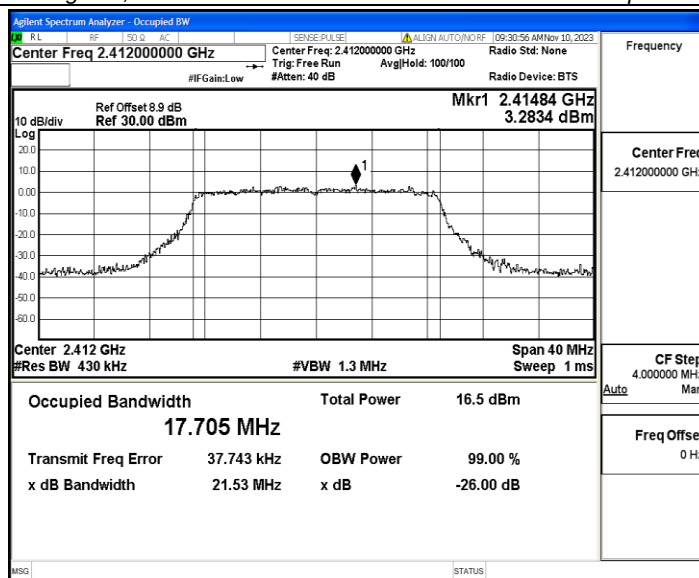
11G_Ant1_2437



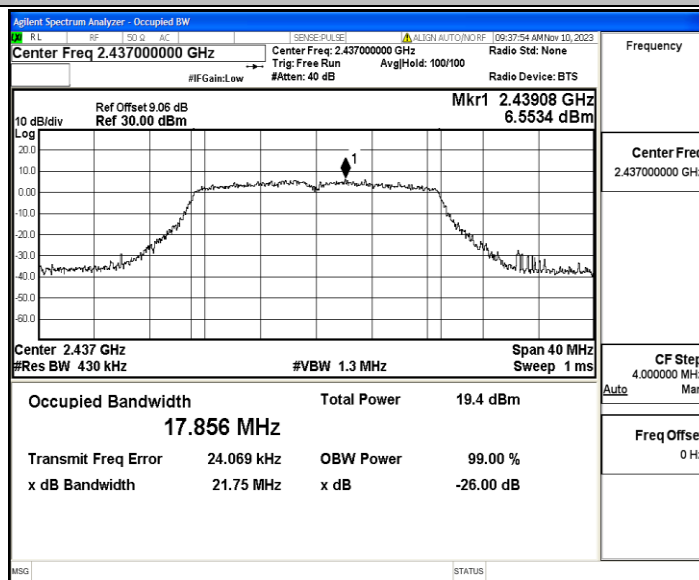
11G_Ant1_2462



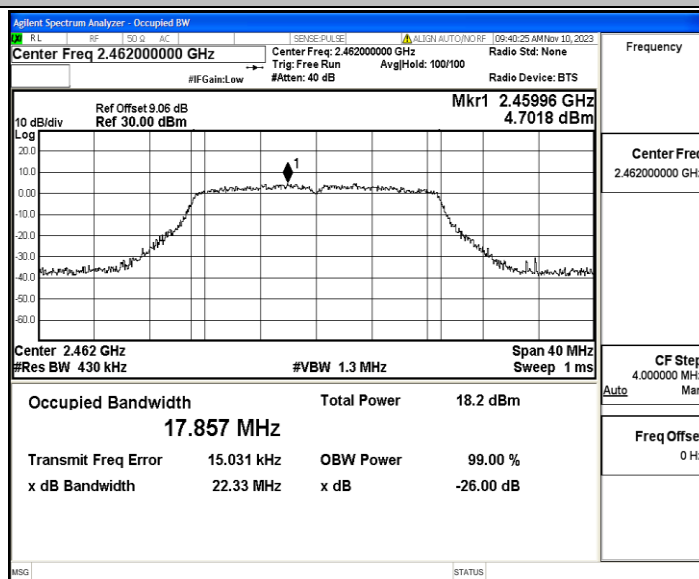
11N20SISO_Ant1_2412



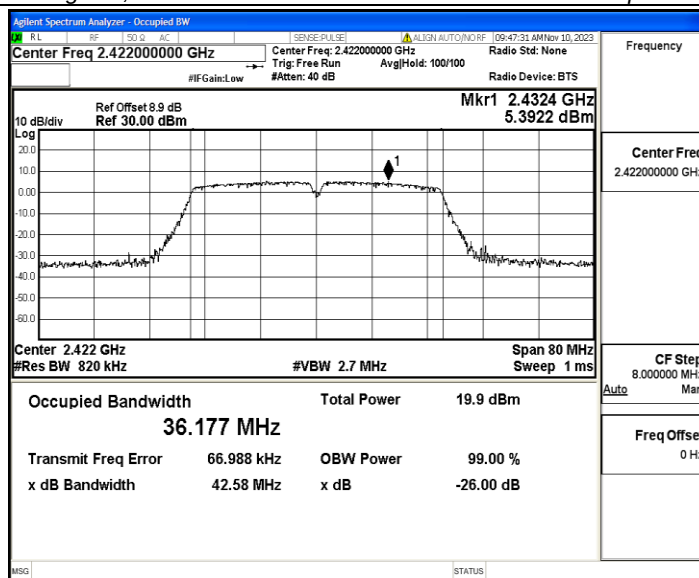
11N20SISO_Ant1_2437



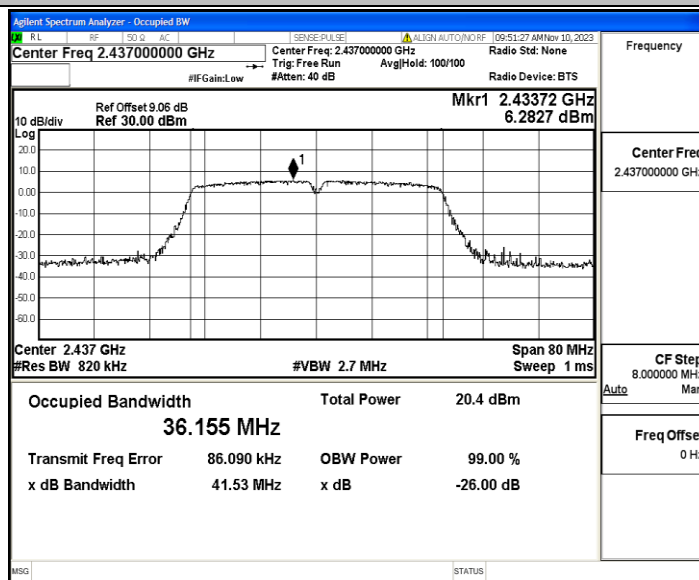
11N20SISO_Ant1_2462



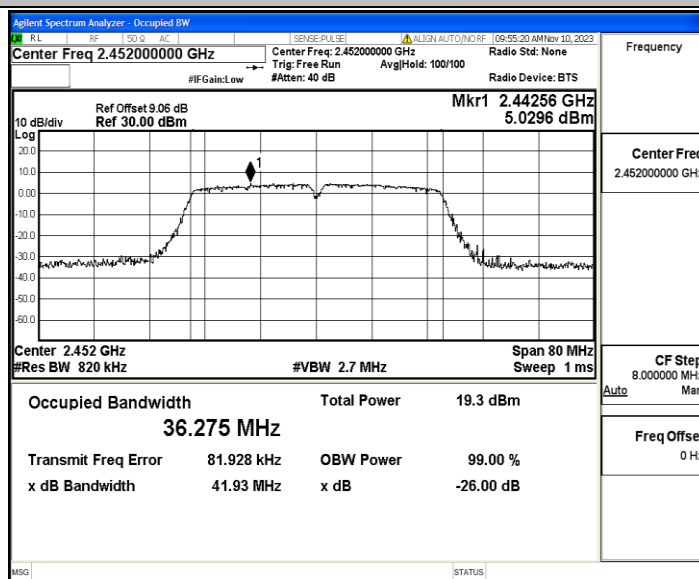
11N40SISO_Ant1_2422



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	11.46	≤30.00	PASS
		2437	13.13	≤30.00	PASS
		2462	12.53	≤30.00	PASS
11G	Ant1	2412	13.30	≤30.00	PASS
		2437	13.59	≤30.00	PASS
		2462	12.27	≤30.00	PASS
11N20SISO	Ant1	2412	13.16	≤30.00	PASS
		2437	13.55	≤30.00	PASS
		2462	12.32	≤30.00	PASS
11N40SISO	Ant1	2422	13.10	≤30.00	PASS
		2437	13.85	≤30.00	PASS
		2452	12.17	≤30.00	PASS

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

Appendix D: Maximum power spectral density

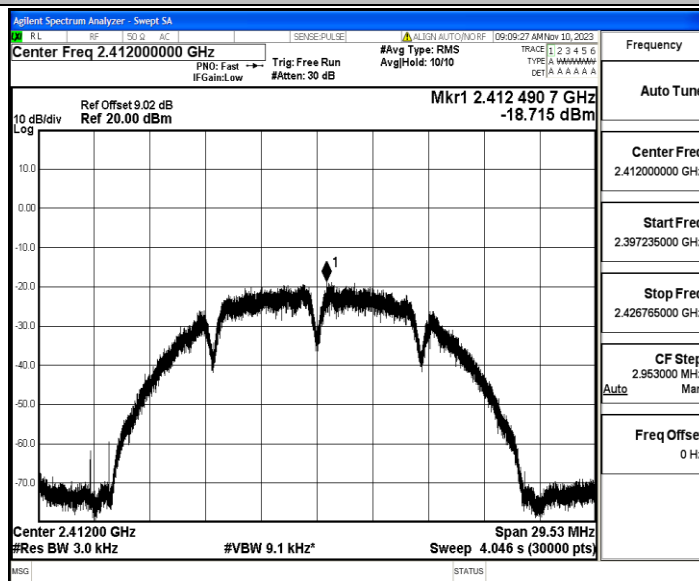
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.72	≤8.00	PASS
		2437	-17.15	≤8.00	PASS
		2462	-17.81	≤8.00	PASS
11G	Ant1	2412	-16.31	≤8.00	PASS
		2437	-16.28	≤8.00	PASS
		2462	-17.55	≤8.00	PASS
11N20SISO	Ant1	2412	-17.31	≤8.00	PASS
		2437	-16.63	≤8.00	PASS
		2462	-18.26	≤8.00	PASS
11N40SISO	Ant1	2422	-18.72	≤8.00	PASS
		2437	-18.91	≤8.00	PASS
		2452	-19.75	≤8.00	PASS

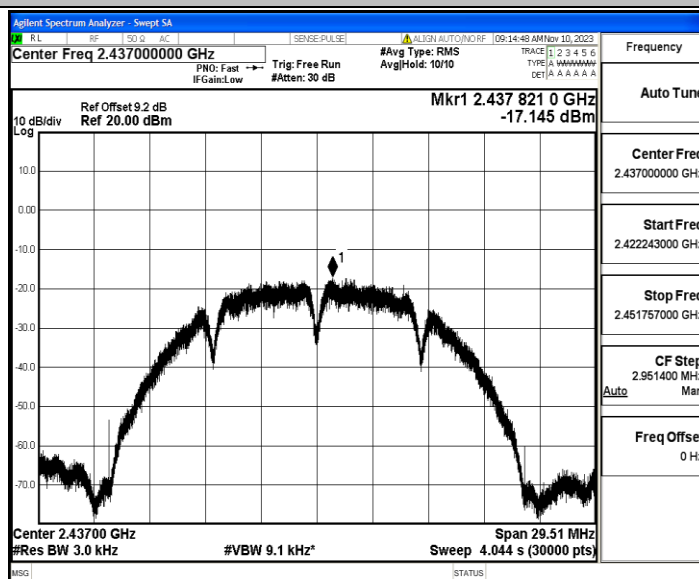
Note: The Duty Cycle Factor is compensated in the test result.

Test Graphs

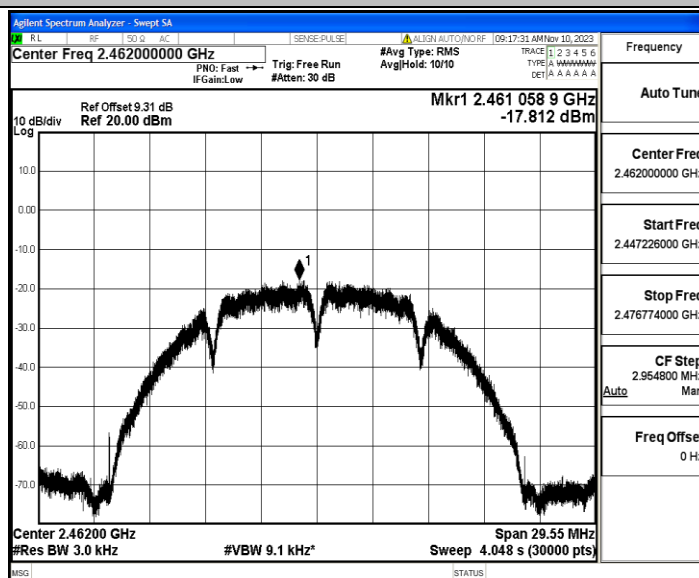
11B_Ant1_2412



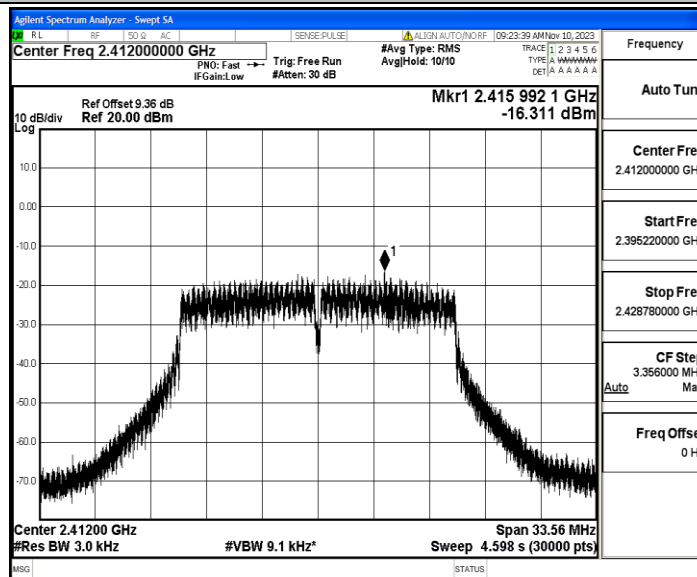
11B_Ant1_2437



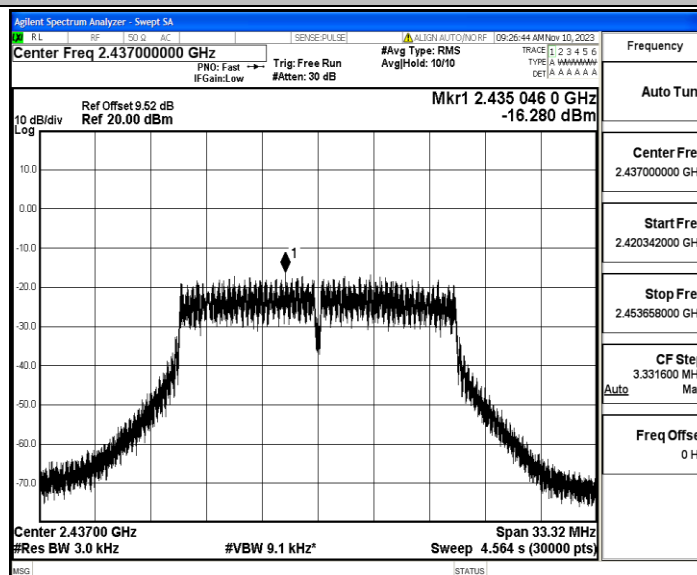
11B_Ant1_2462



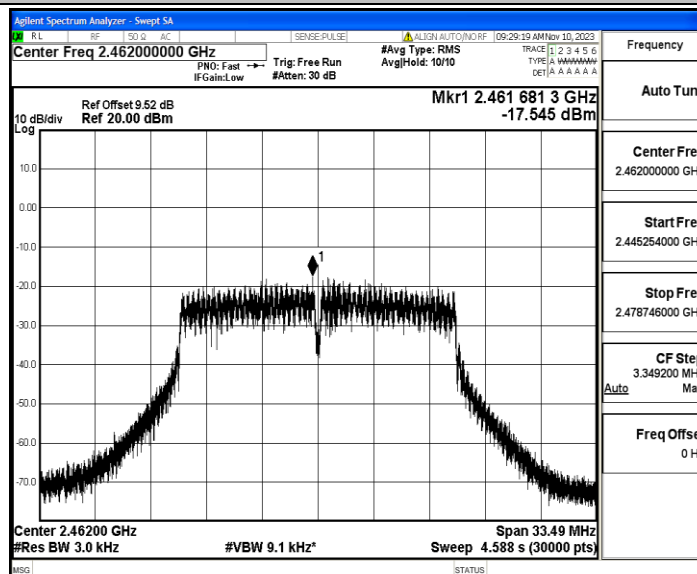
11G_Ant1_2412



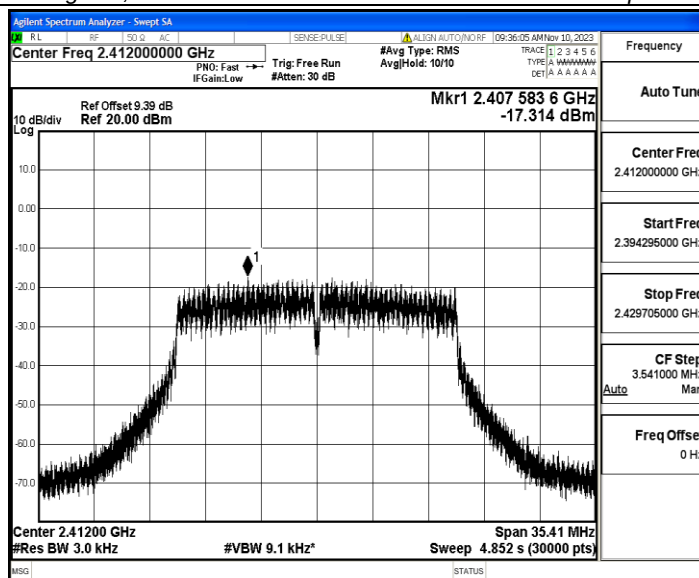
11G_Ant1_2437



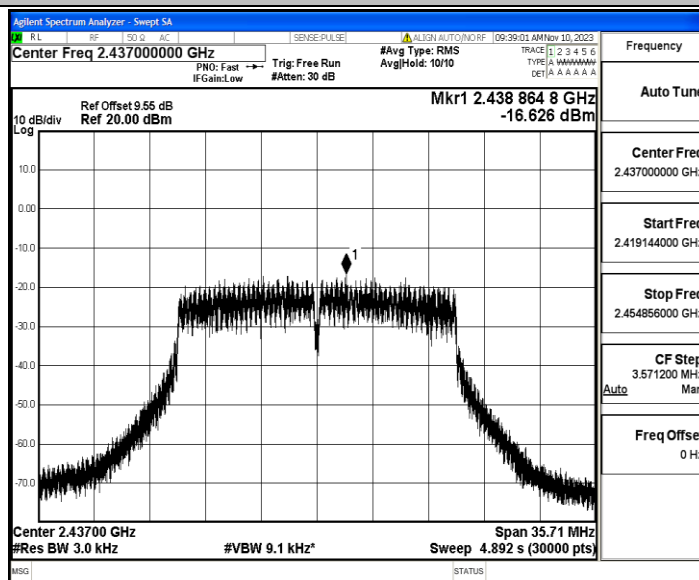
11G_Ant1_2462



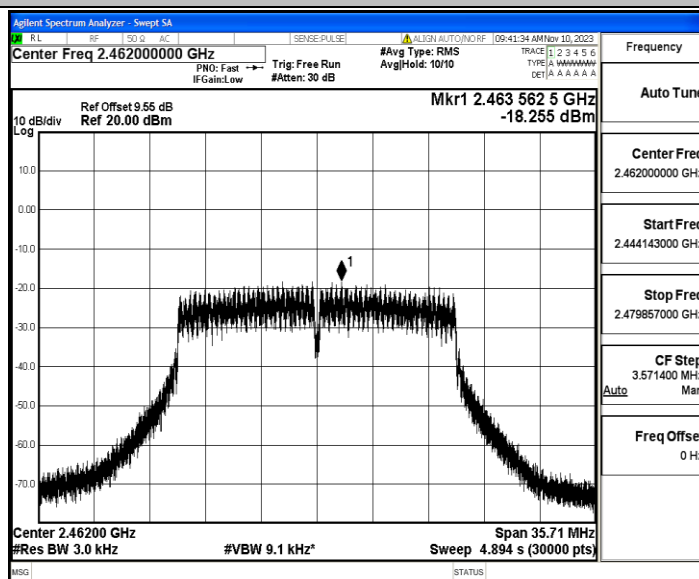
11N20SISO_Ant1_2412



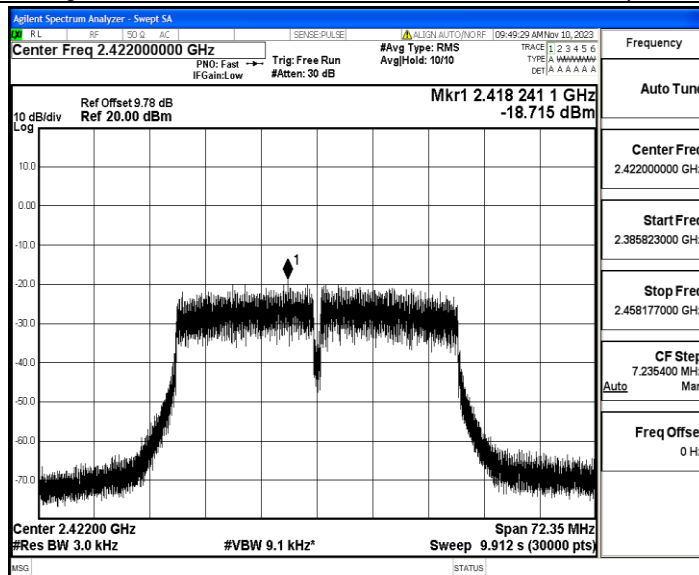
11N20SISO_Ant1_2437



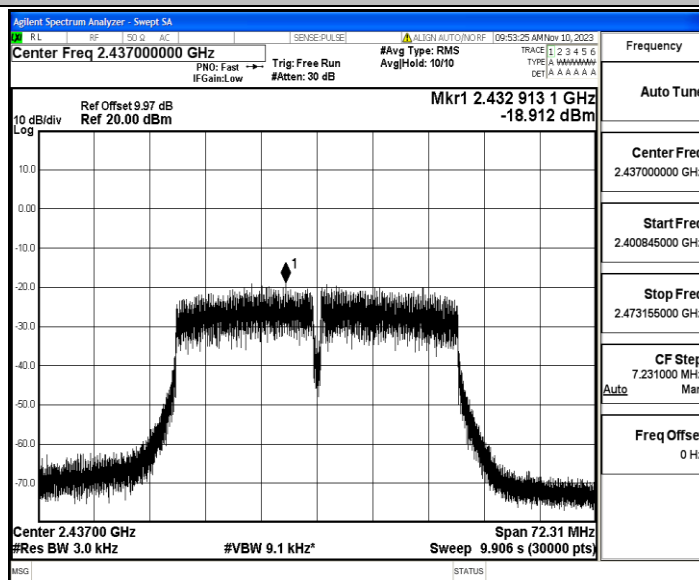
11N20SISO_Ant1_2462



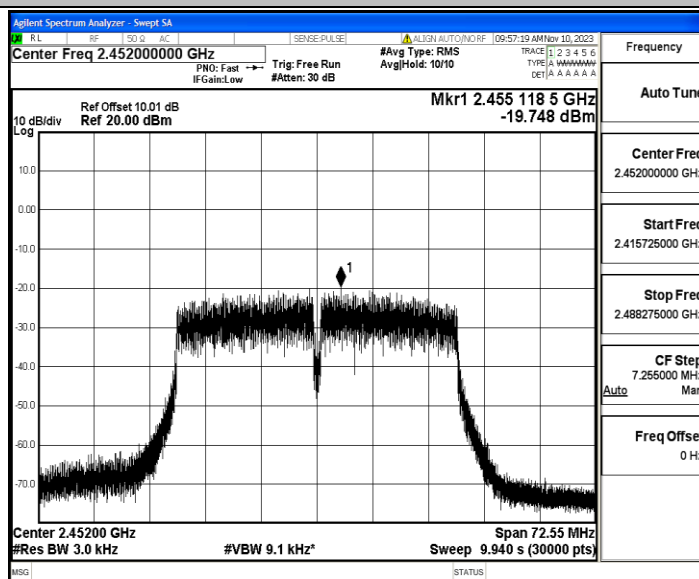
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



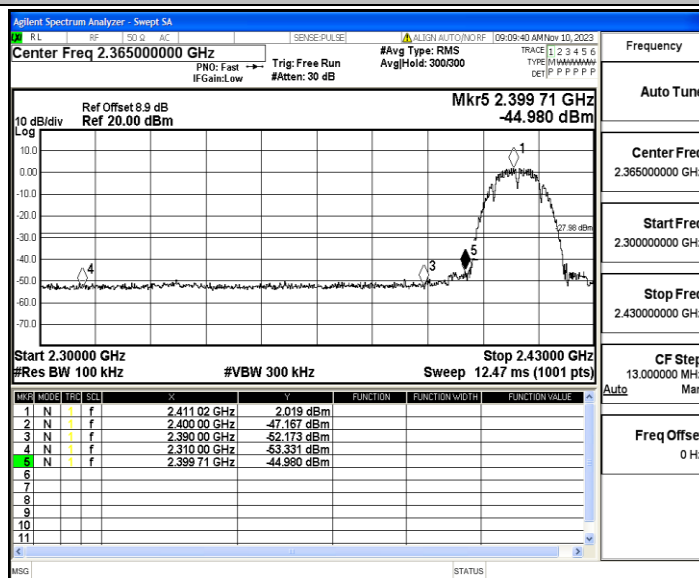
Appendix E: Band edge measurements

Test Result

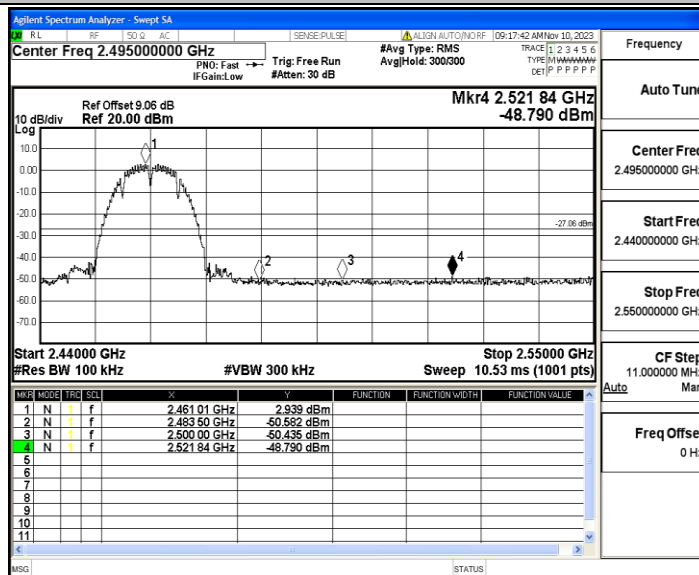
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.02	-44.98	≤ -27.98	PASS
		High	2462	2.94	-48.79	≤ -27.06	PASS
11G	Ant1	Low	2412	2.04	-36.73	≤ -27.96	PASS
		High	2462	1.10	-48.91	≤ -28.9	PASS
11N20SISO	Ant1	Low	2412	1.98	-34.67	≤ -28.02	PASS
		High	2462	1.87	-48.42	≤ -28.13	PASS
11N40SISO	Ant1	Low	2422	-0.92	-39.37	≤ -30.92	PASS
		High	2452	-1.16	-46.45	≤ -31.16	PASS

Test Graphs

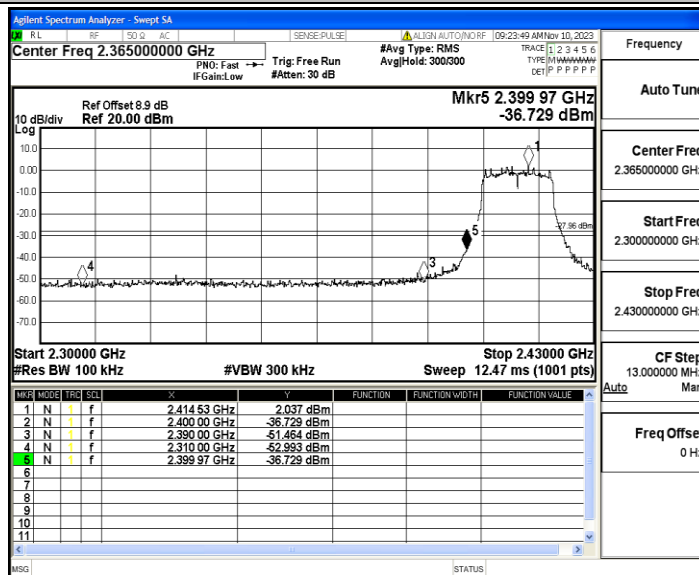
11B_Ant1_Low_2412



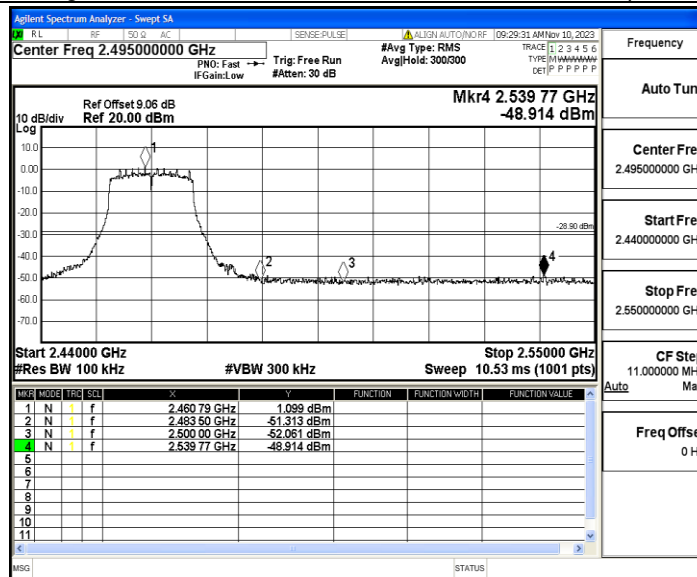
11B_Ant1_High_2462



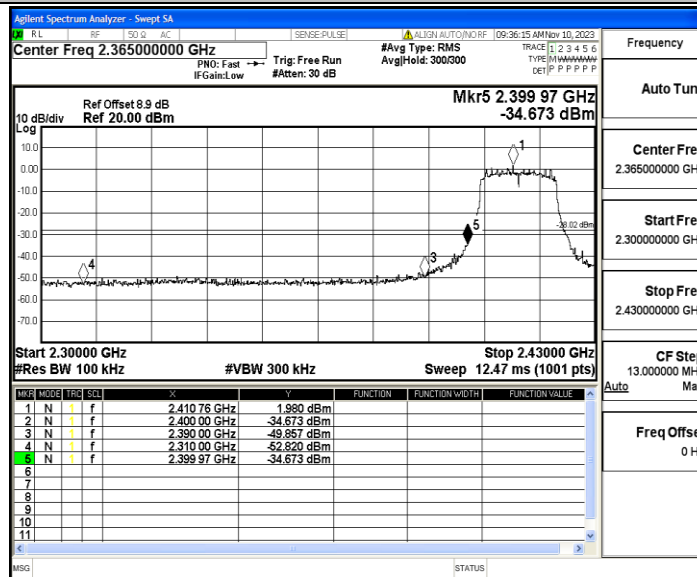
11G_Ant1_Low_2412



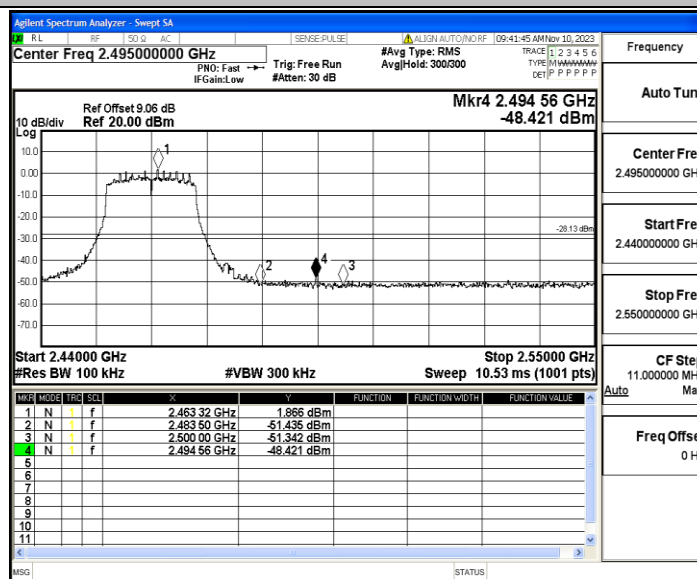
11G_Ant1_High_2462



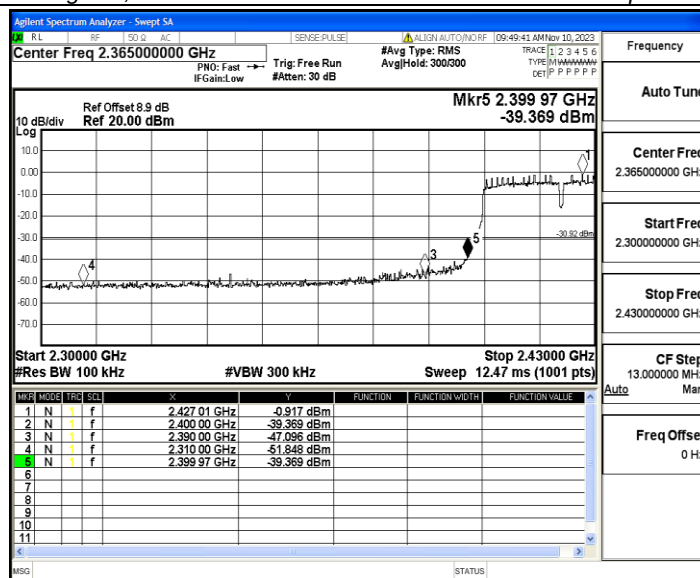
11N20SISO_Ant1_Low_2412



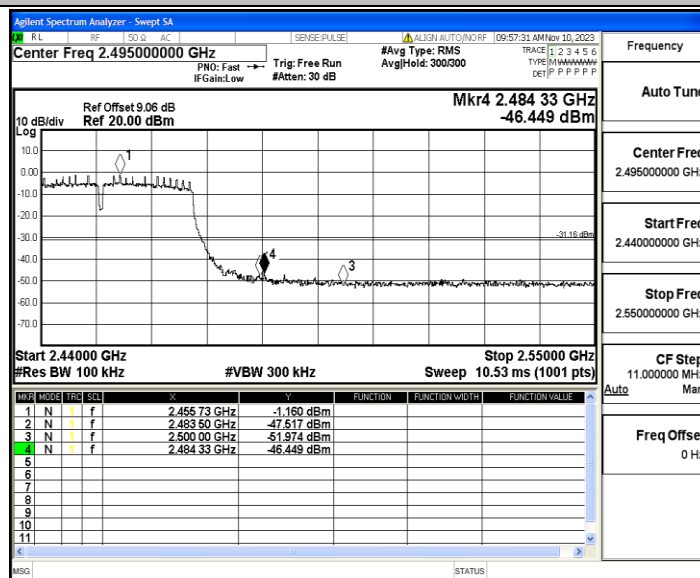
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



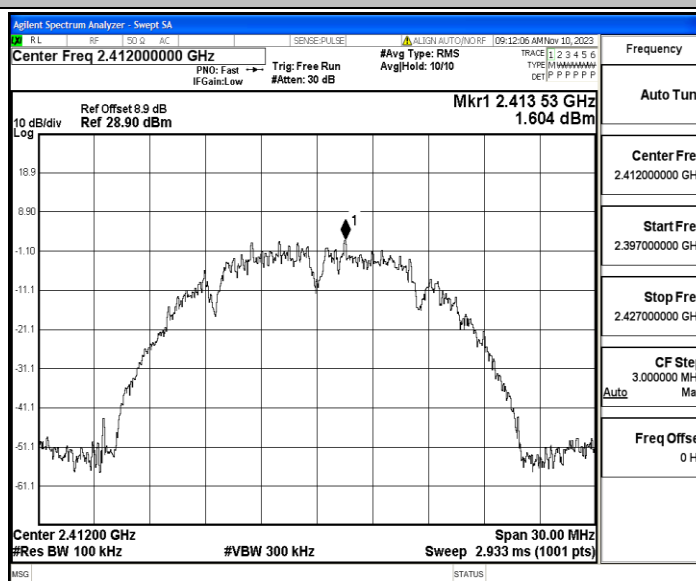
Appendix F: Conducted Spurious Emission

Test Result

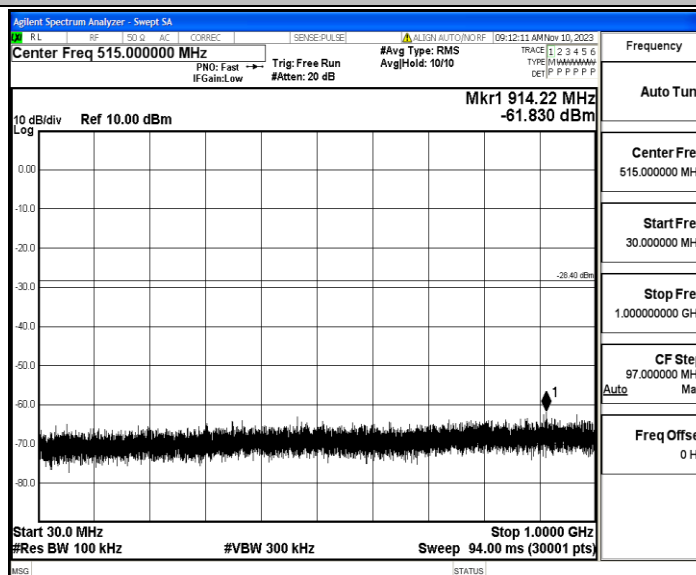
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.60	1.60	---	PASS
			30~1000	1.60	-61.83	≤-28.4	PASS
			1000~26500	1.60	-49.92	≤-28.4	PASS
		2437	Reference	3.04	3.04	---	PASS
			30~1000	3.04	-62.32	≤-26.96	PASS
			1000~26500	3.04	-44.82	≤-26.96	PASS
		2462	Reference	2.15	2.15	---	PASS
			30~1000	2.15	-63.22	≤-27.85	PASS
			1000~26500	2.15	-49.16	≤-27.85	PASS
11G	Ant1	2412	Reference	-1.53	-1.53	---	PASS
			30~1000	-1.53	-63.13	≤-31.53	PASS
			1000~26500	-1.53	-49.18	≤-31.53	PASS
		2437	Reference	0.66	0.66	---	PASS
			30~1000	0.66	-62.07	≤-29.34	PASS
			1000~26500	0.66	-48.73	≤-29.34	PASS
		2462	Reference	0.51	0.51	---	PASS
			30~1000	0.51	-62.83	≤-29.49	PASS
			1000~26500	0.51	-48.76	≤-29.49	PASS
11N20SISO	Ant1	2412	Reference	1.50	1.50	---	PASS
			30~1000	1.50	-62.75	≤-28.5	PASS
			1000~26500	1.50	-50.77	≤-28.5	PASS
		2437	Reference	-0.95	-0.95	---	PASS
			30~1000	-0.95	-62.17	≤-30.95	PASS
			1000~26500	-0.95	-49.63	≤-30.95	PASS
		2462	Reference	1.32	1.32	---	PASS
			30~1000	1.32	-63.02	≤-28.68	PASS
			1000~26500	1.32	-50.53	≤-28.68	PASS
11N40SISO	Ant1	2422	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-62.87	≤-31.69	PASS
			1000~26500	-1.69	-48.56	≤-31.69	PASS
		2437	Reference	-1.72	-1.72	---	PASS
			30~1000	-1.72	-62.54	≤-31.72	PASS
			1000~26500	-1.72	-49.24	≤-31.72	PASS
		2452	Reference	-1.56	-1.56	---	PASS
			30~1000	-1.56	-62.96	≤-31.56	PASS
			1000~26500	-1.56	-49.77	≤-31.56	PASS

Test Graphs

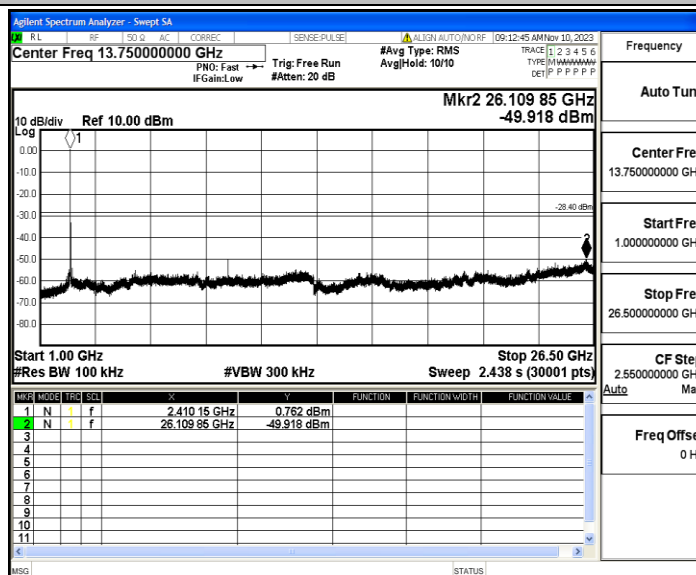
11B_Ant1_2412_0~Reference



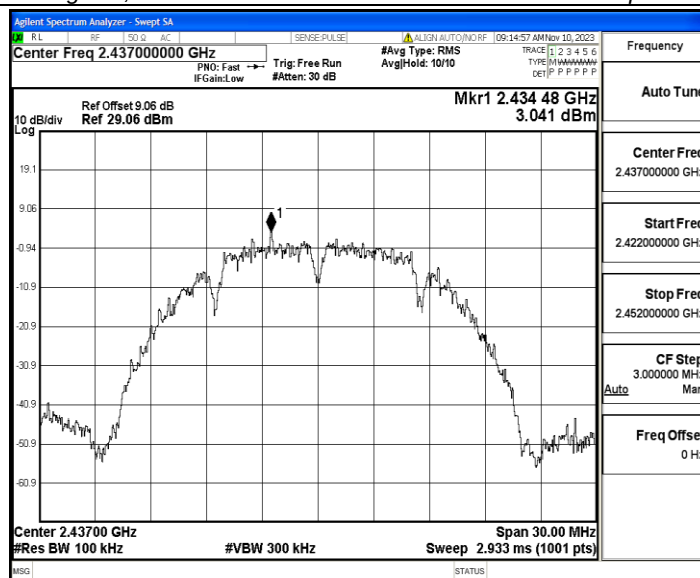
11B_Ant1_2412_30~1000



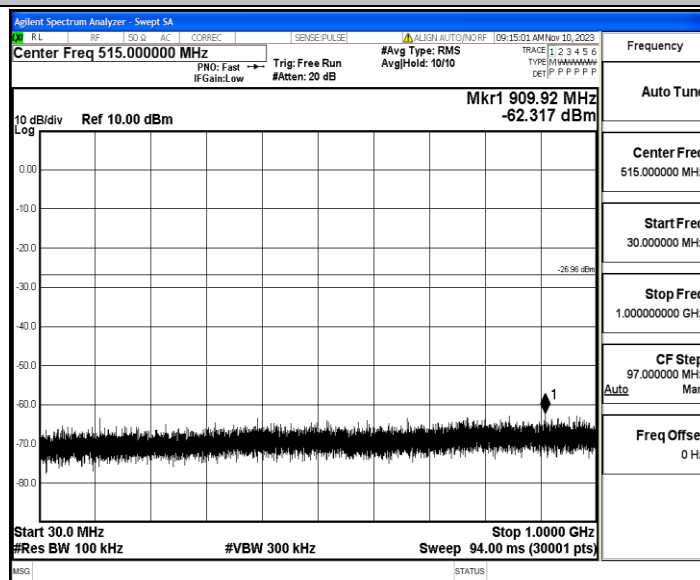
11B_Ant1_2412_1000~26500



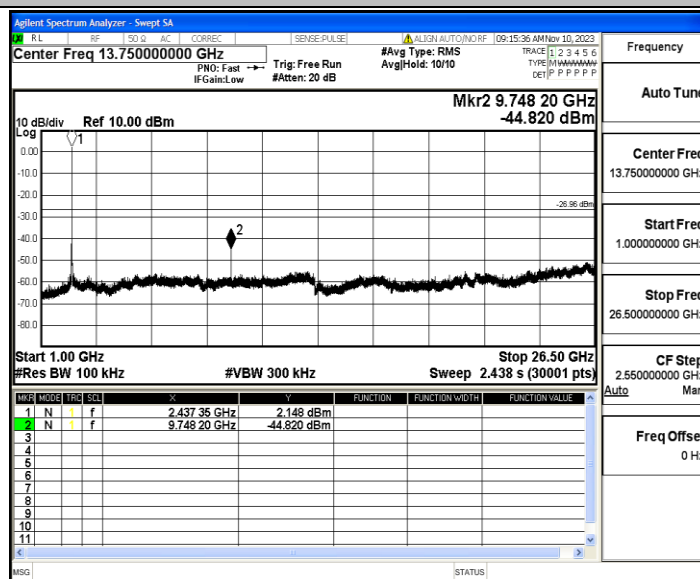
11B_Ant1_2437_0~Reference



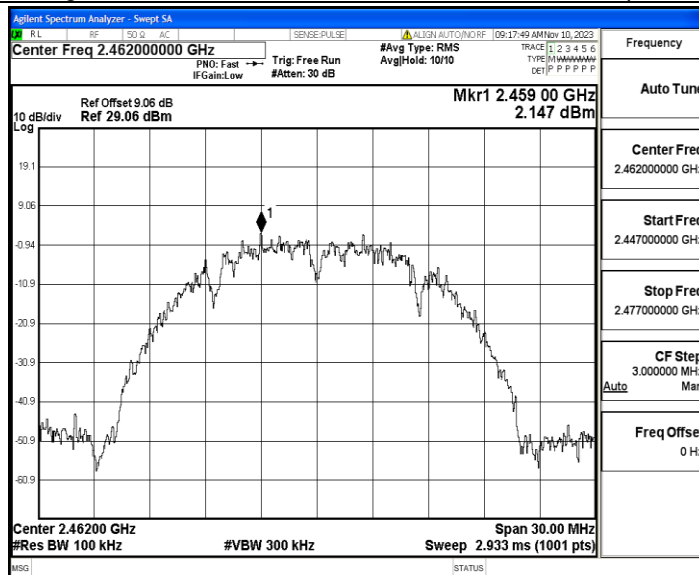
11B_Ant1_2437_30~1000



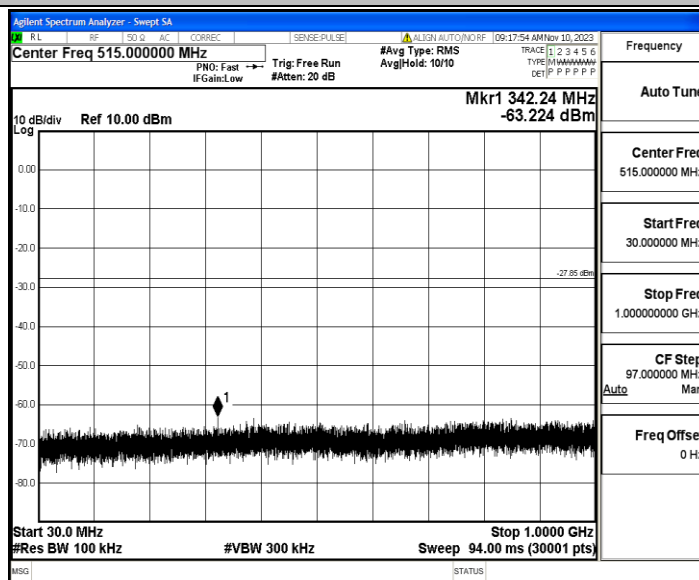
11B_Ant1_2437_1000~26500



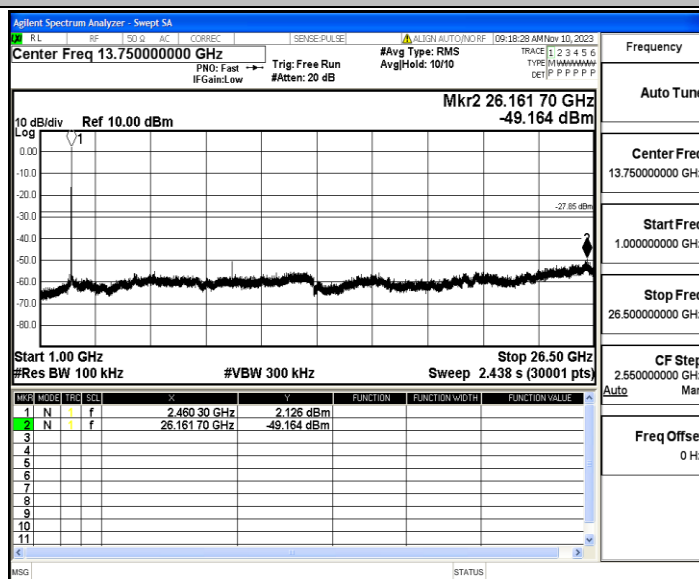
11B_Ant1_2462_0~Reference



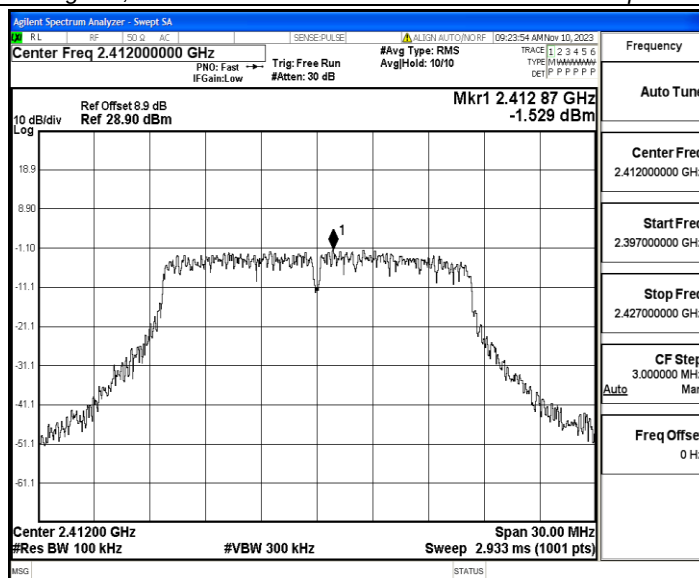
11B_Ant1_2462_30-1000



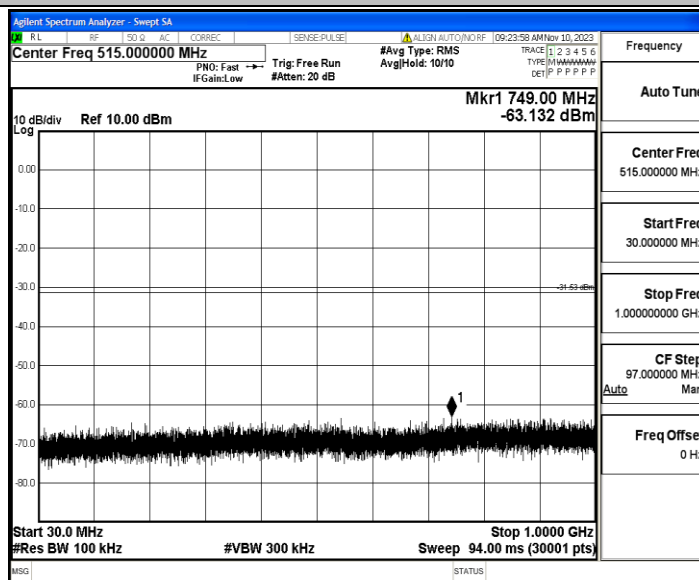
11B_Ant1_2462_1000-26500



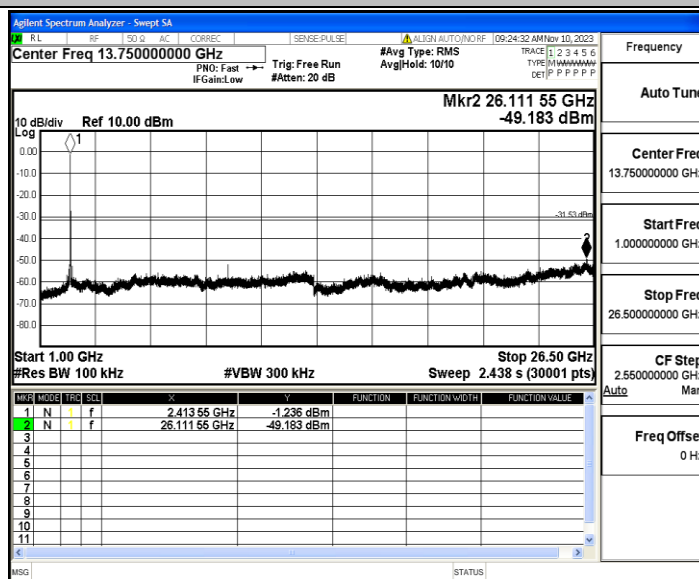
11G_Ant1_2412_0-Reference



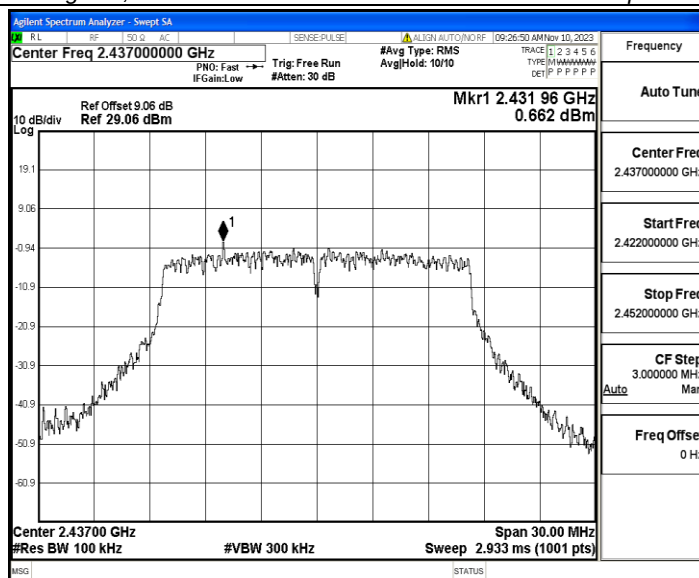
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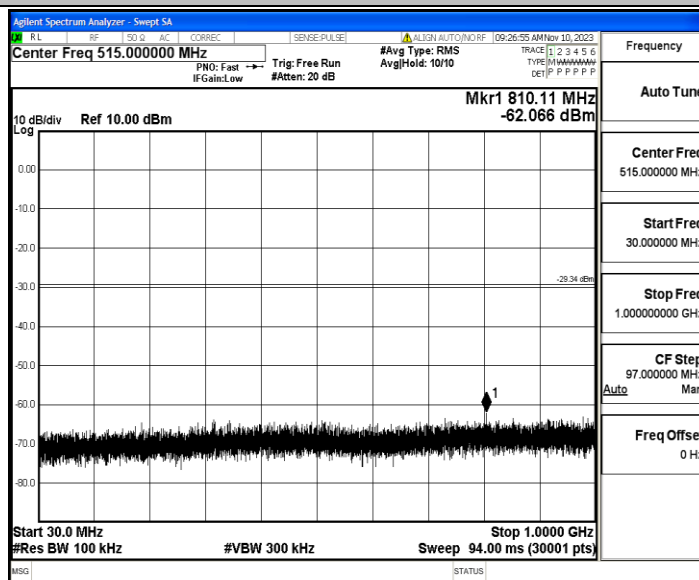
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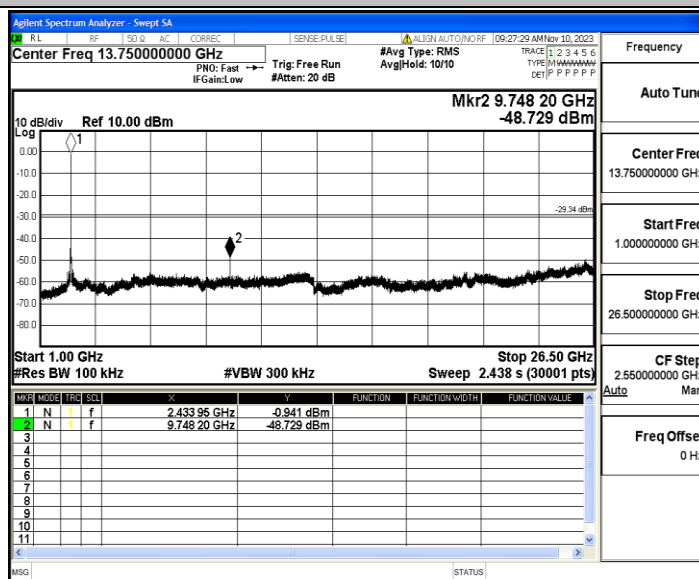
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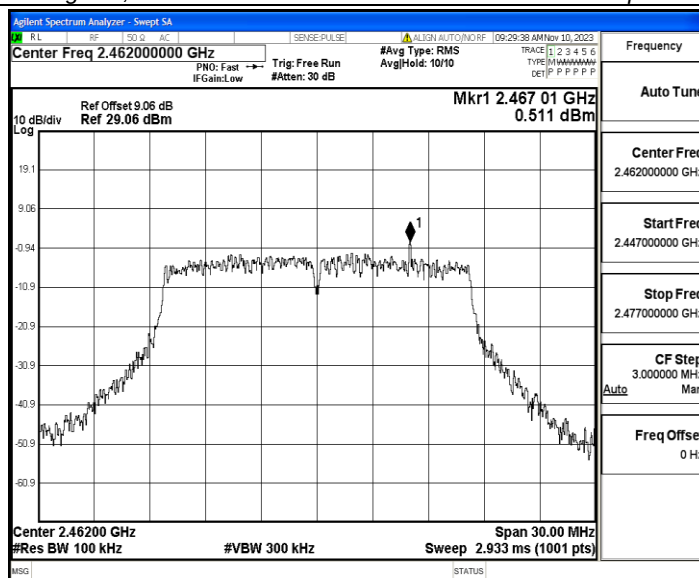
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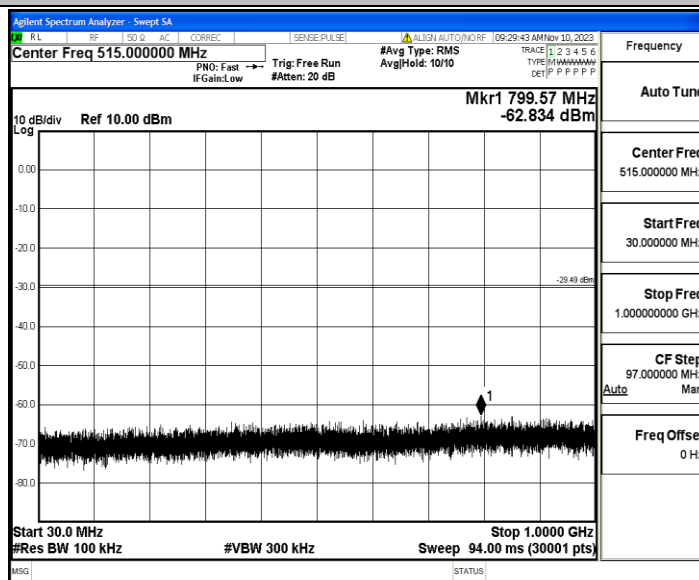
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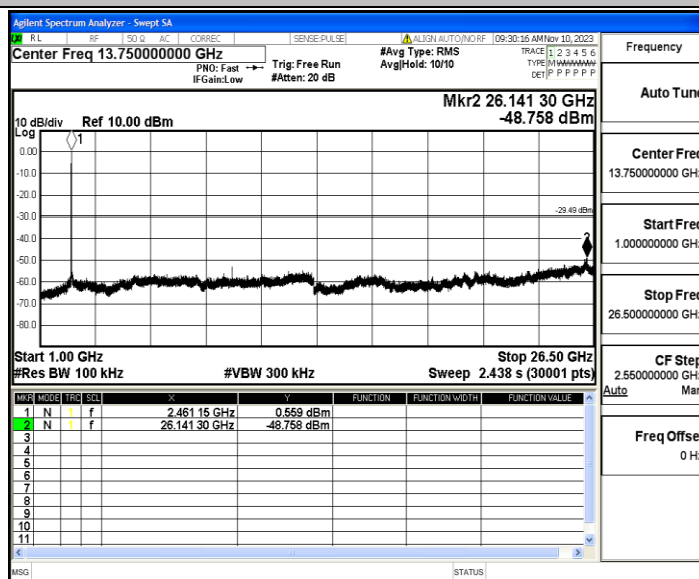
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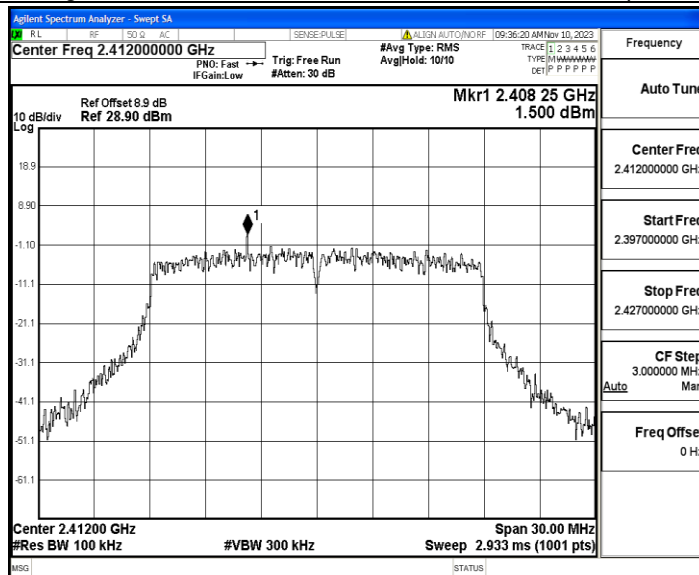
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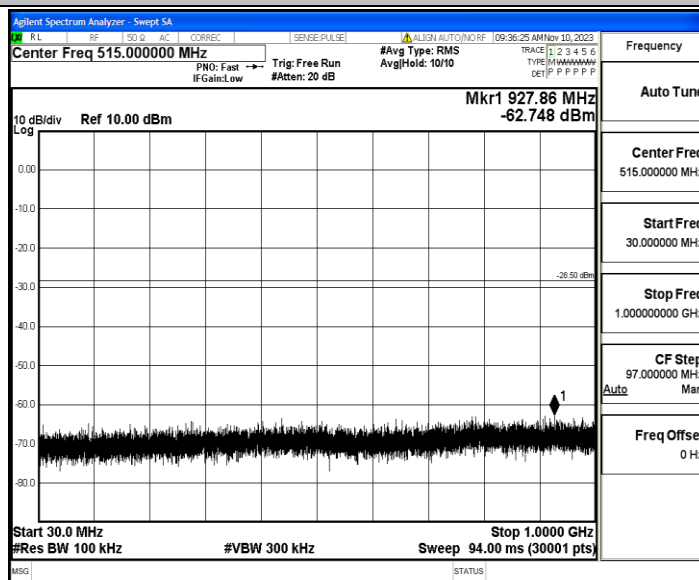
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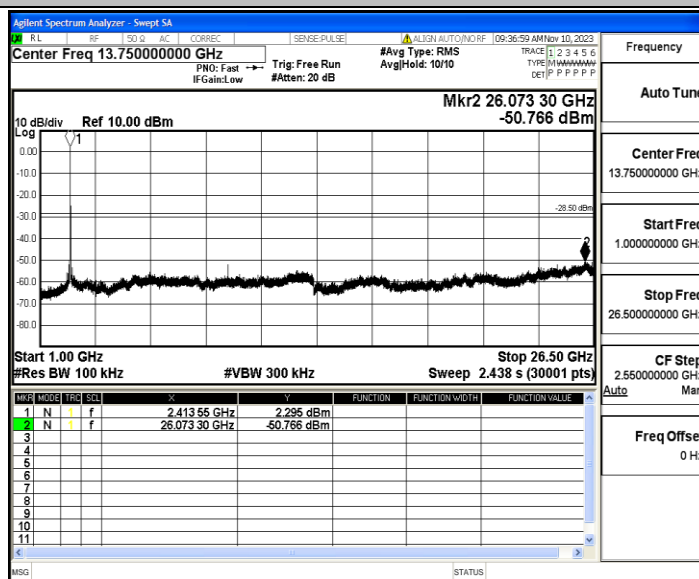
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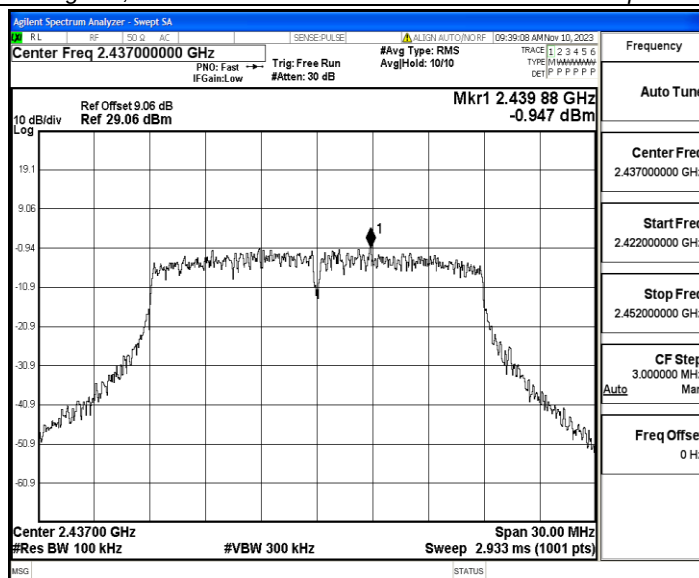
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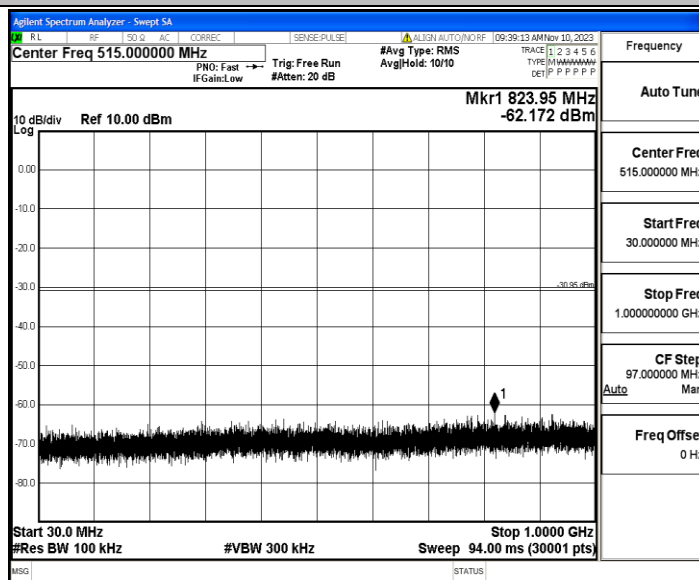
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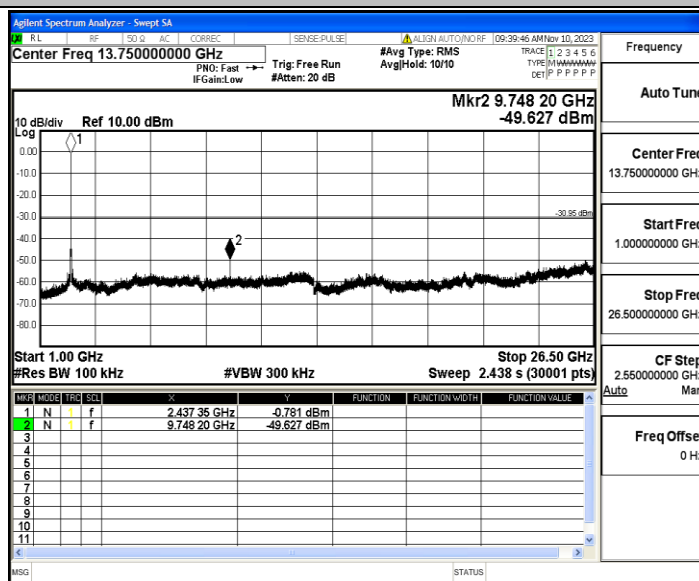
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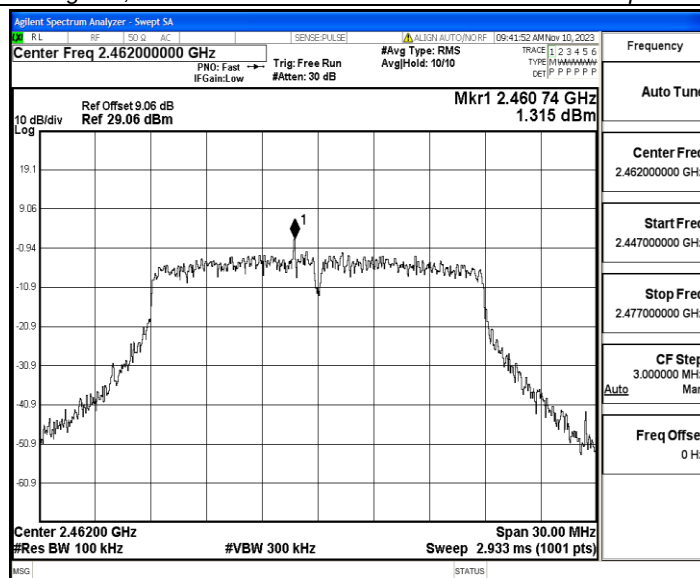
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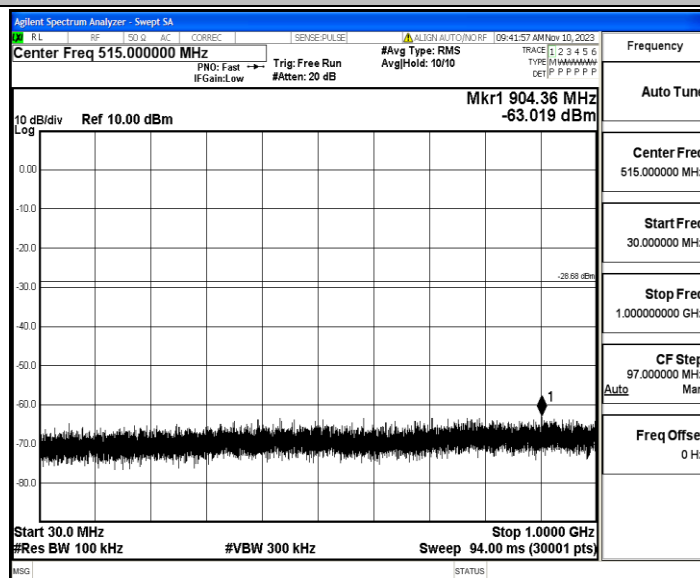
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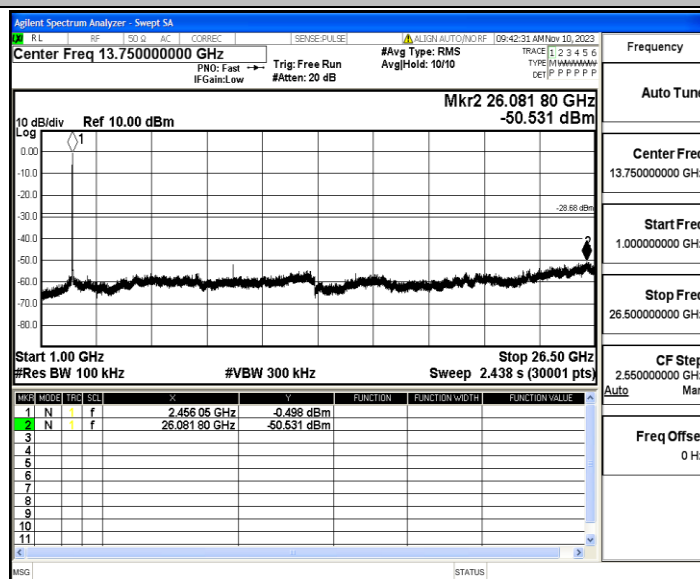
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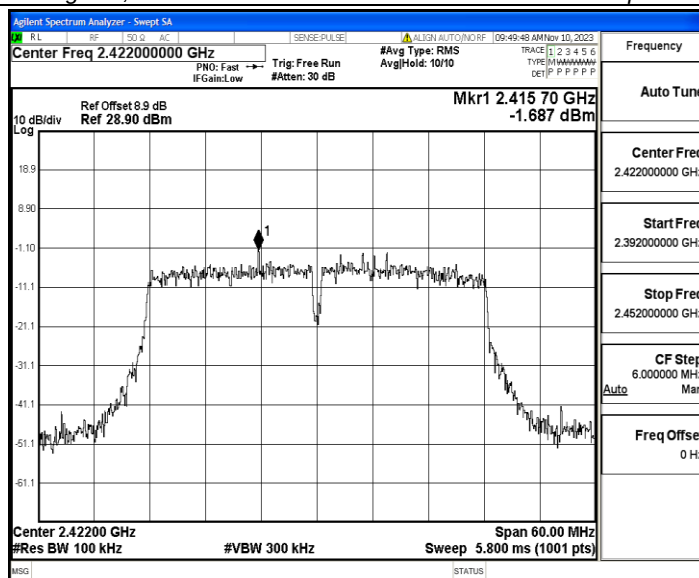
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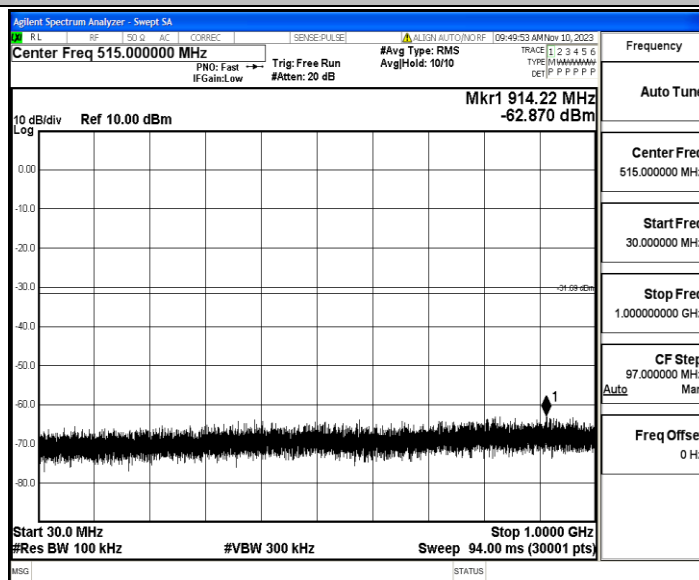
11N20SISO_Ant1_2462_1000~26500



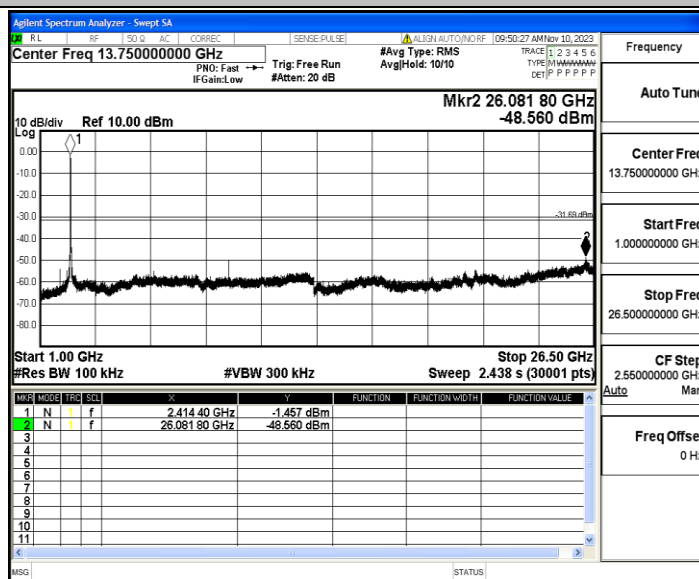
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_0~Reference