

FCC Appendix RF Test Data

FCC ID : 2AR4E-P1

Company: : Shenzhen Beibo Intelligent Technology Co., Ltd.

EUT : Carplay Screen for Car

Model Number : P1

Report No. : CTA25050800602

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.600	2406.960	2416.560	0.5	PASS
		2437	9.000	2433.000	2442.000	0.5	PASS
		2462	9.080	2456.960	2466.040	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	15.480	2429.440	2444.920	0.5	PASS
		2462	15.960	2454.200	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.160	2404.440	2420.600	0.5	PASS
		2437	15.880	2429.440	2445.320	0.5	PASS
		2462	16.520	2454.240	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.760	2404.480	2440.240	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

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



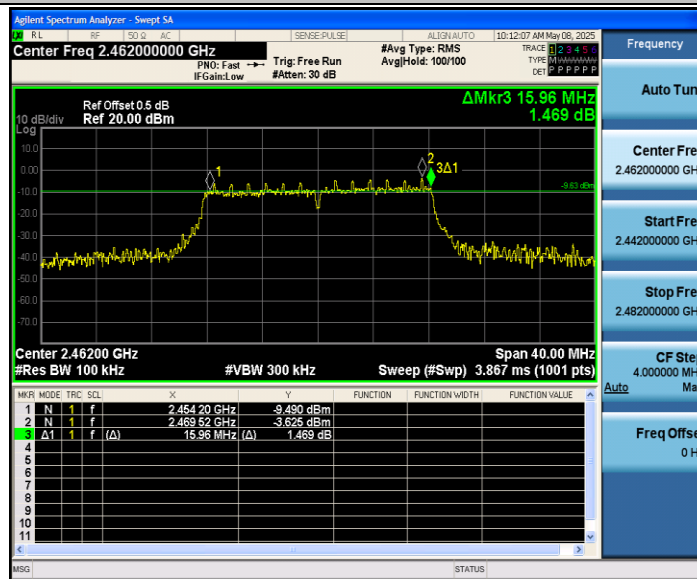
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



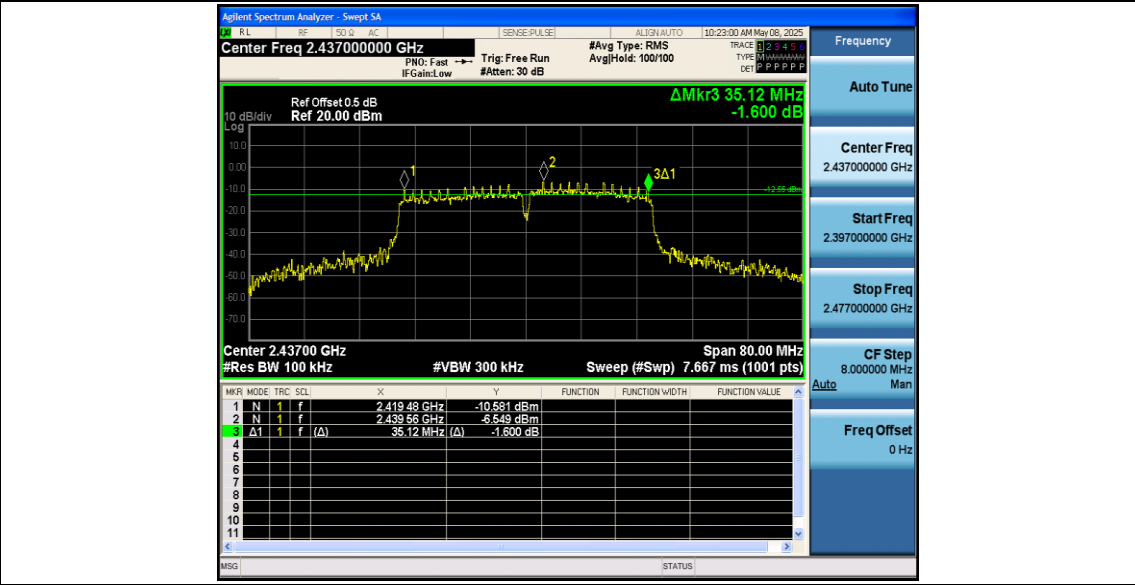
11N20SISO_Ant1_2462



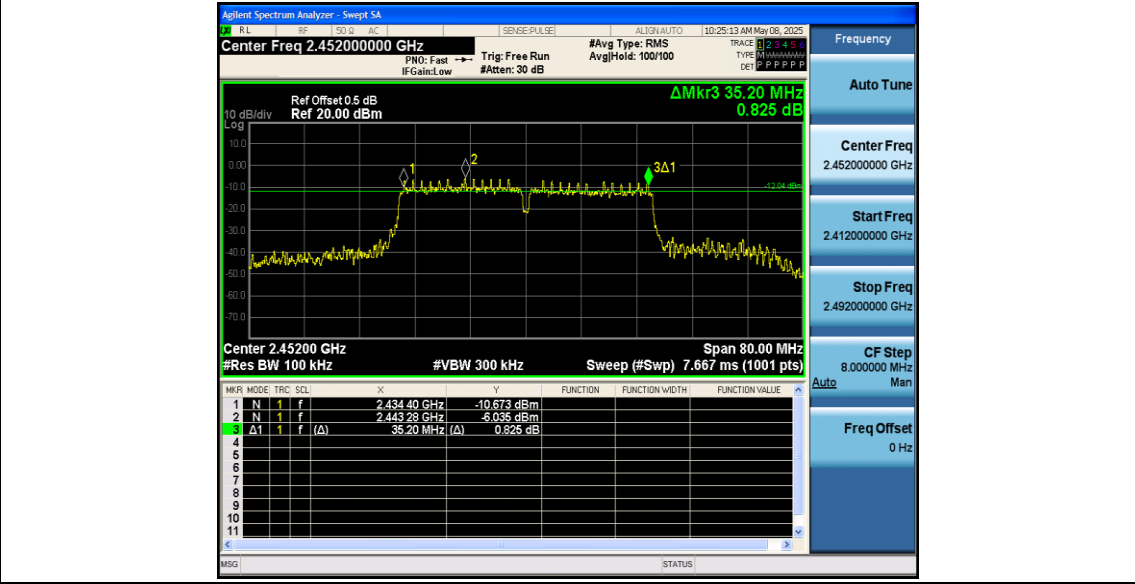
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.371	2405.7553	2418.1263	---	---
		2437	12.338	2431.0913	2443.4293	---	---
		2462	12.872	2455.3908	2468.2628	---	---
11G	Ant1	2412	16.872	2403.7410	2420.6130	---	---
		2437	16.557	2428.8586	2445.4156	---	---
		2462	16.898	2453.7105	2470.6085	---	---
11N20SISO	Ant1	2412	17.976	2403.2429	2421.2189	---	---
		2437	17.636	2428.2966	2445.9326	---	---
		2462	18.008	2453.1868	2471.1948	---	---
11N40SISO	Ant1	2422	36.423	2404.0570	2440.4800	---	---
		2437	35.952	2419.1299	2455.0819	---	---
		2452	36.378	2433.9028	2470.2808	---	---

Test Graphs

11B_Ant1_2412



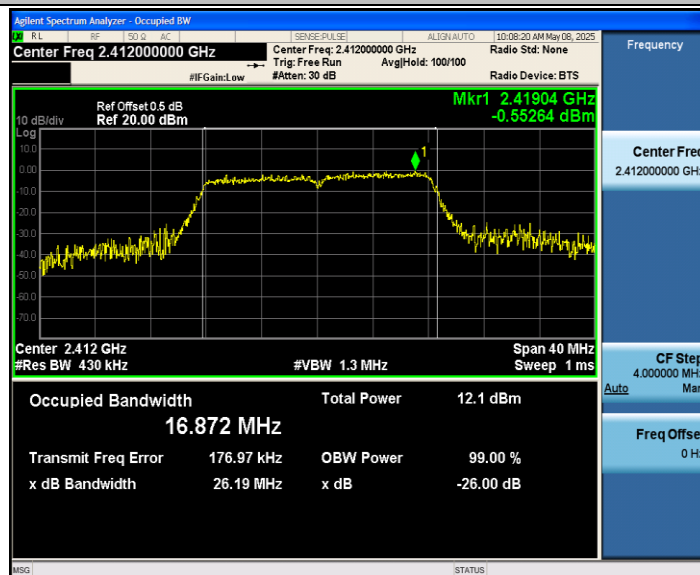
11B_Ant1_2437



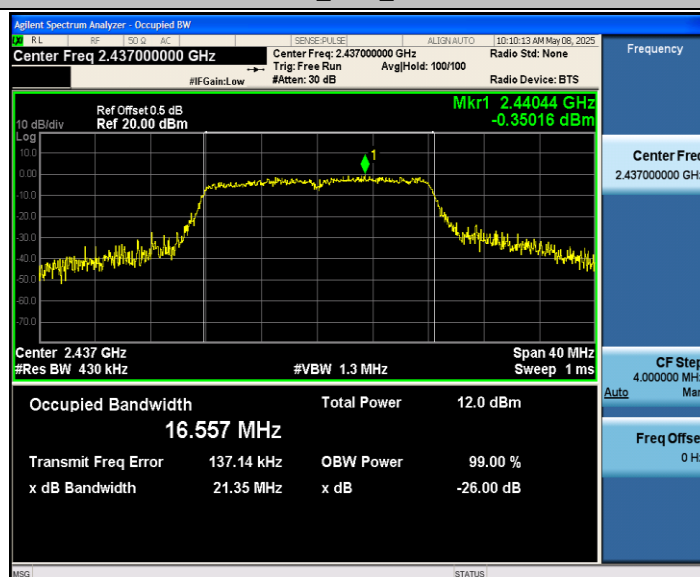
11B_Ant1_2462



11G_Ant1_2412



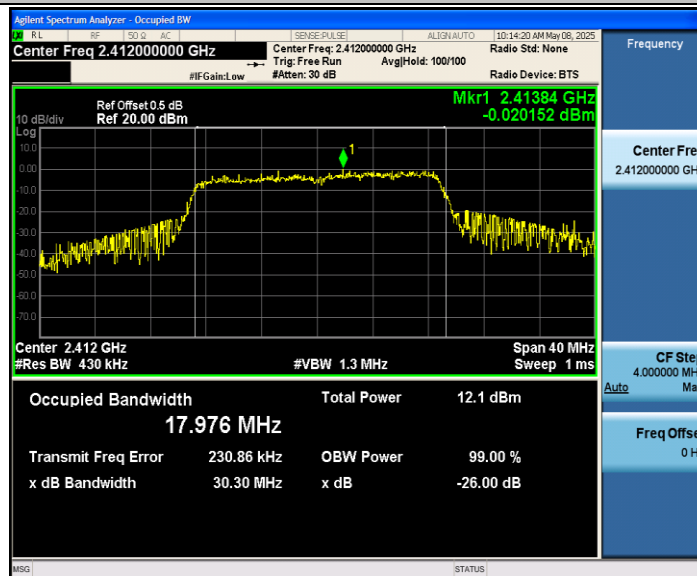
11G_Ant1_2437



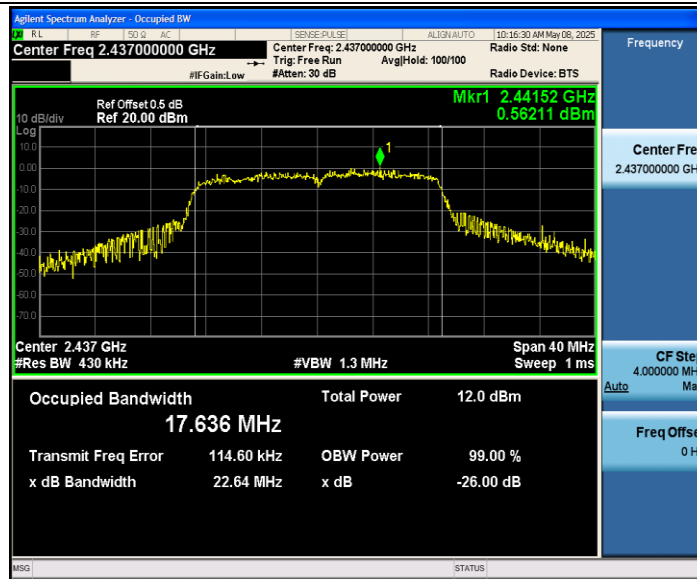
11G_Ant1_2462



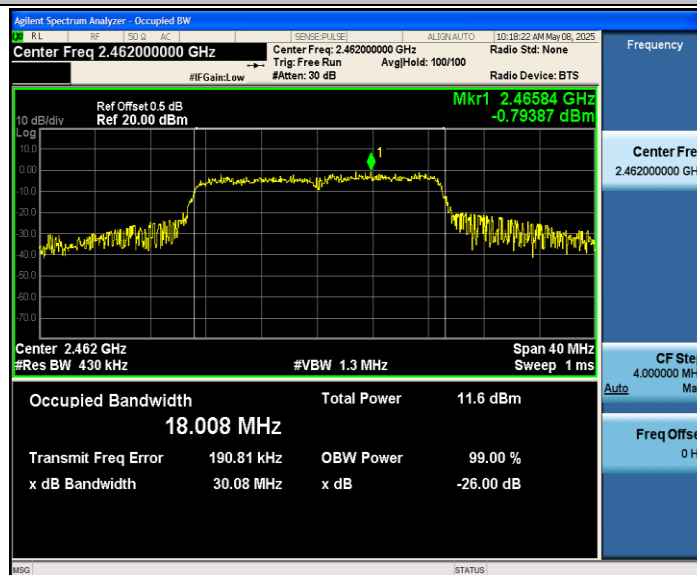
11N20SISO_Ant1_2412



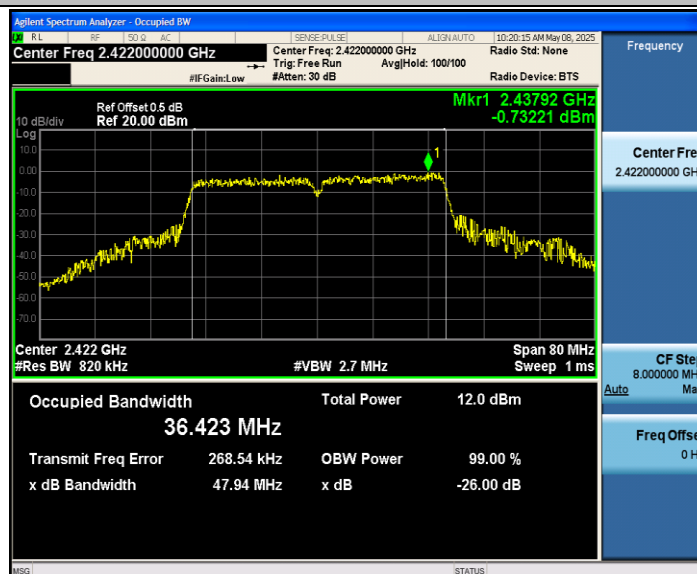
11N20SISO_Ant1_2437



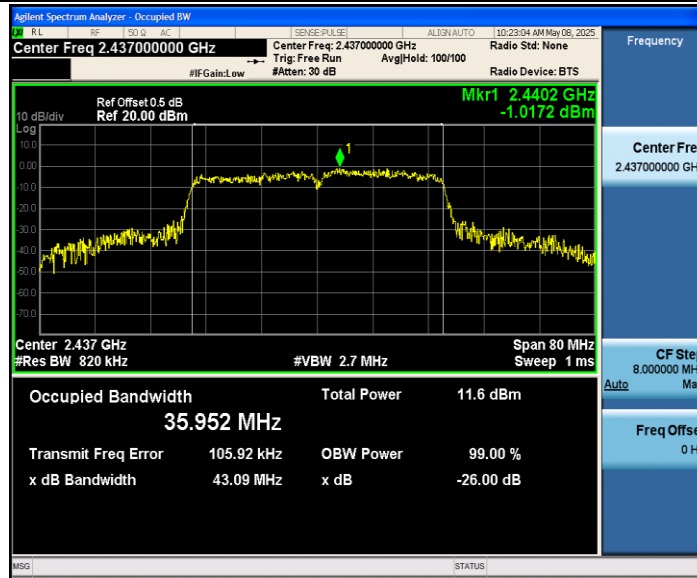
11N20SISO_Ant1_2462



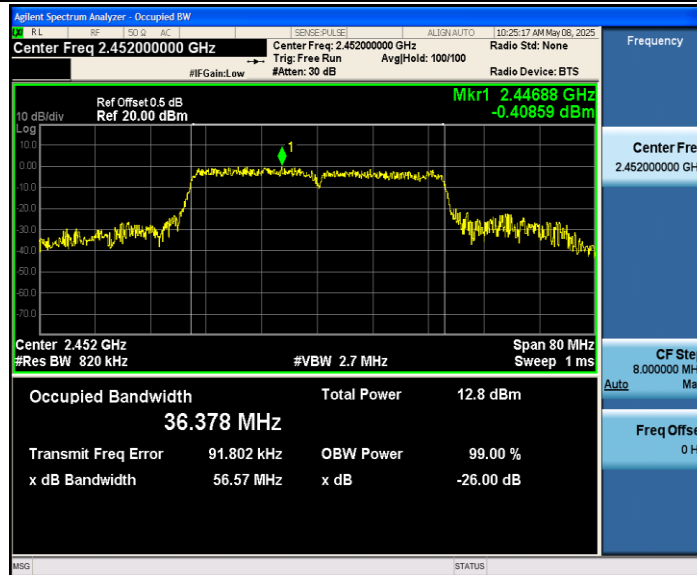
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.63	≤30.00	PASS
		2437	14.48	≤30.00	PASS
		2462	13.97	≤30.00	PASS
11G	Ant1	2412	12.84	≤30.00	PASS
		2437	12.52	≤30.00	PASS
		2462	12.11	≤30.00	PASS
11N20SISO	Ant1	2412	12.86	≤30.00	PASS
		2437	12.35	≤30.00	PASS
		2462	12.13	≤30.00	PASS
11N40SISO	Ant1	2422	12.05	≤30.00	PASS
		2437	11.90	≤30.00	PASS
		2452	12.86	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.70	≤8.00	PASS
		2437	-11.16	≤8.00	PASS
		2462	-11.80	≤8.00	PASS
11G	Ant1	2412	-16.90	≤8.00	PASS
		2437	-18.02	≤8.00	PASS
		2462	-20.35	≤8.00	PASS
11N20SISO	Ant1	2412	-18.87	≤8.00	PASS
		2437	-19.78	≤8.00	PASS
		2462	-19.92	≤8.00	PASS
11N40SISO	Ant1	2422	-21.52	≤8.00	PASS
		2437	-22.32	≤8.00	PASS
		2452	-22.07	≤8.00	PASS

Test Graphs

11B_Ant1_2412



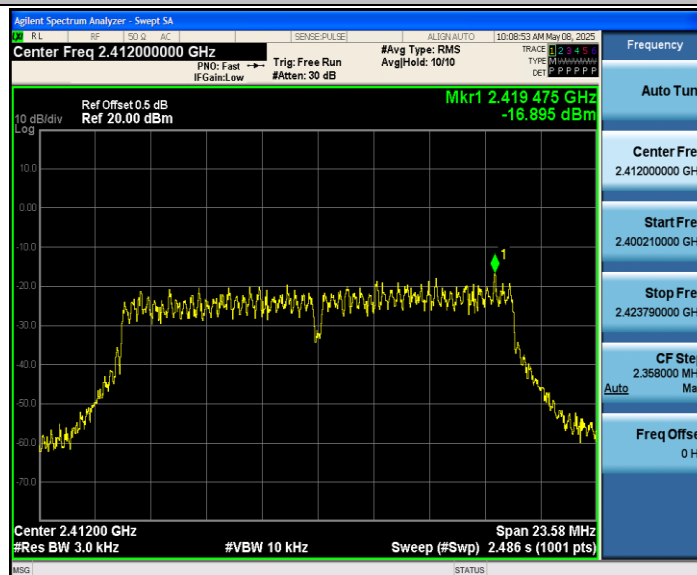
11B_Ant1_2437



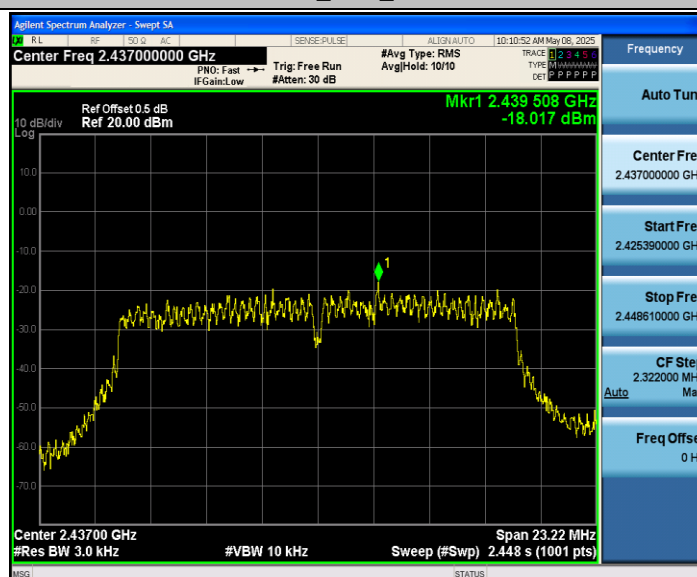
11B_Ant1_2462



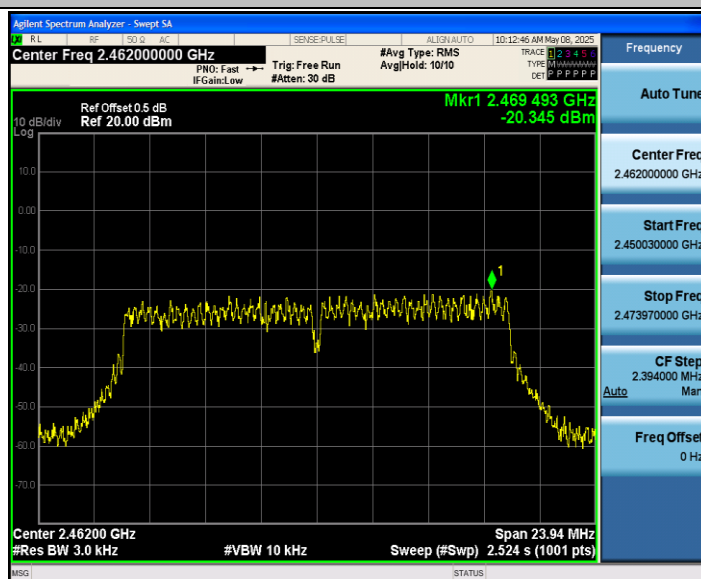
11G_Ant1_2412



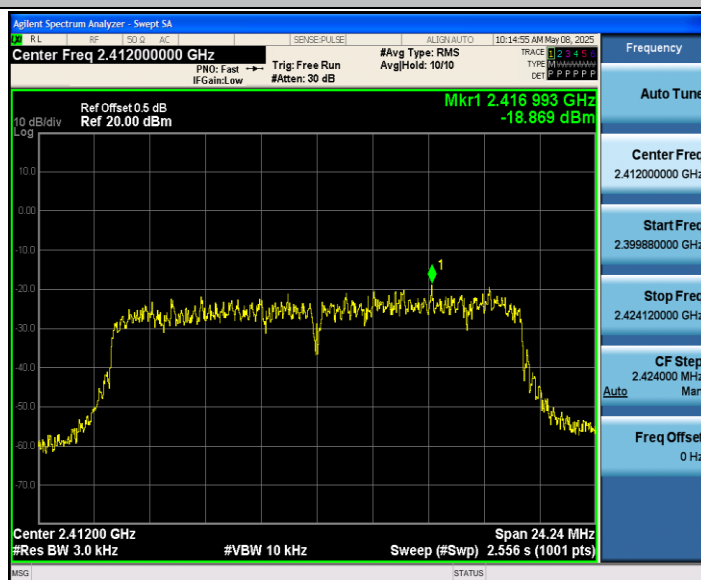
11G_Ant1_2437



11G_Ant1_2462



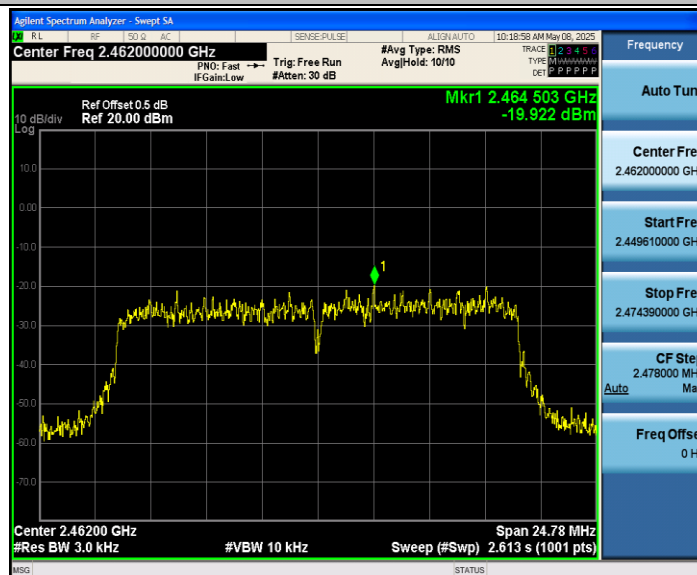
11N20SISO_Ant1_2412



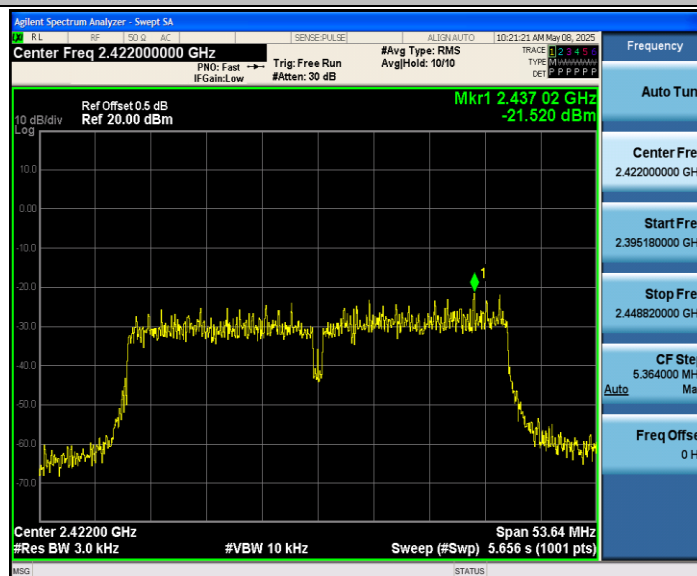
11N20SISO_Ant1_2437



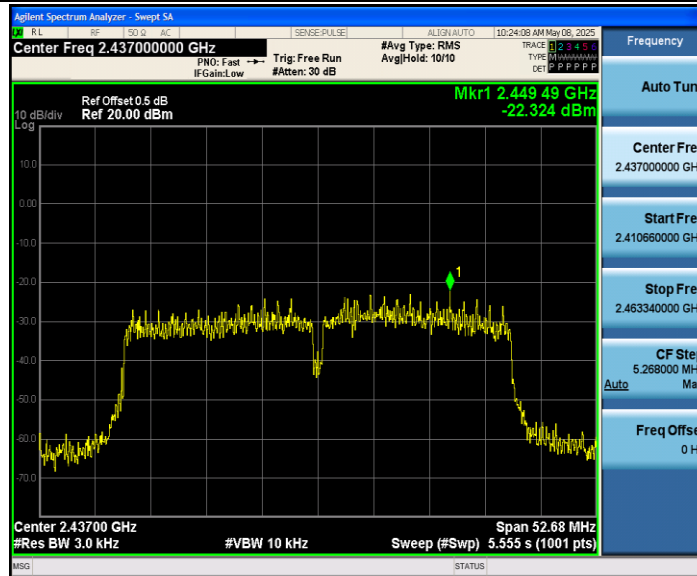
11N20SISO_Ant1_2462



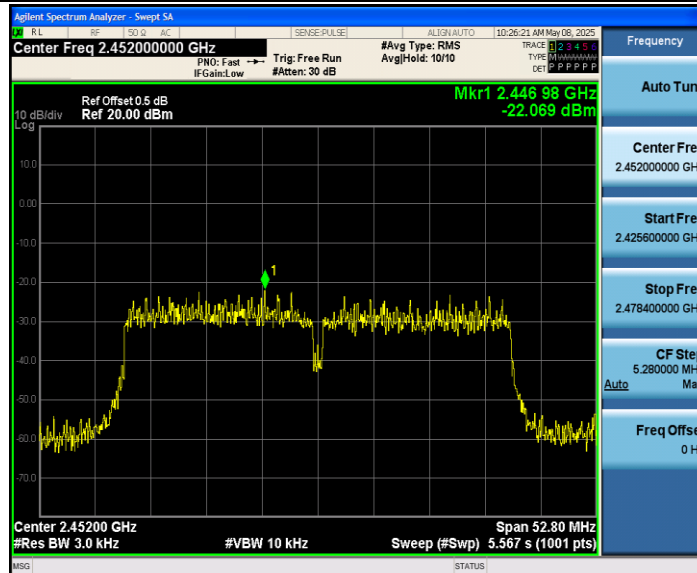
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



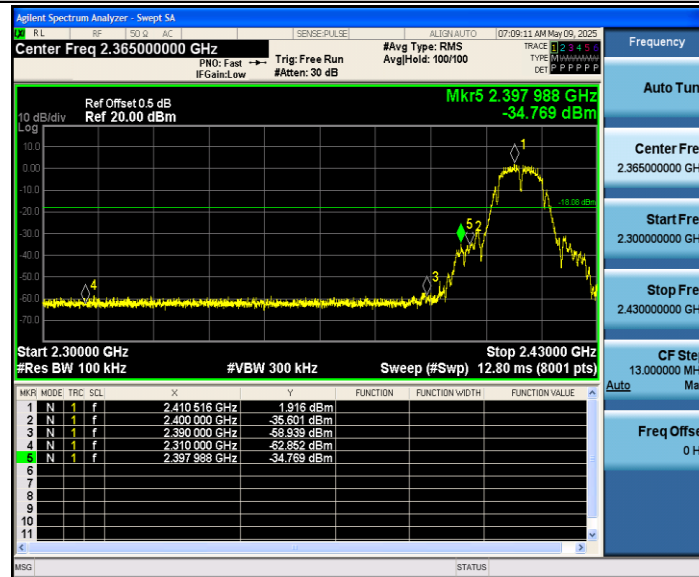
Appendix E: Band edge measurements

Test Result

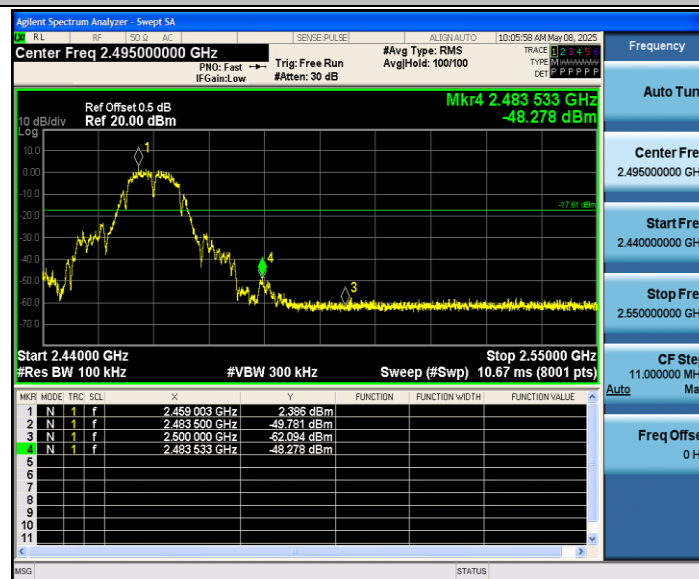
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.92	-34.77	≤-18.08	PASS
		High	2462	2.39	-48.28	≤-17.61	PASS
11G	Ant1	Low	2412	-3.06	-36.75	≤-23.06	PASS
		High	2462	-3.50	-39.86	≤-23.5	PASS
11N20SISO	Ant1	Low	2412	-2.82	-36.11	≤-22.82	PASS
		High	2462	-3.51	-39.8	≤-23.51	PASS
11N40SISO	Ant1	Low	2422	-6.53	-40.02	≤-26.53	PASS
		High	2452	-6.00	-36.04	≤-26	PASS

Test Graphs

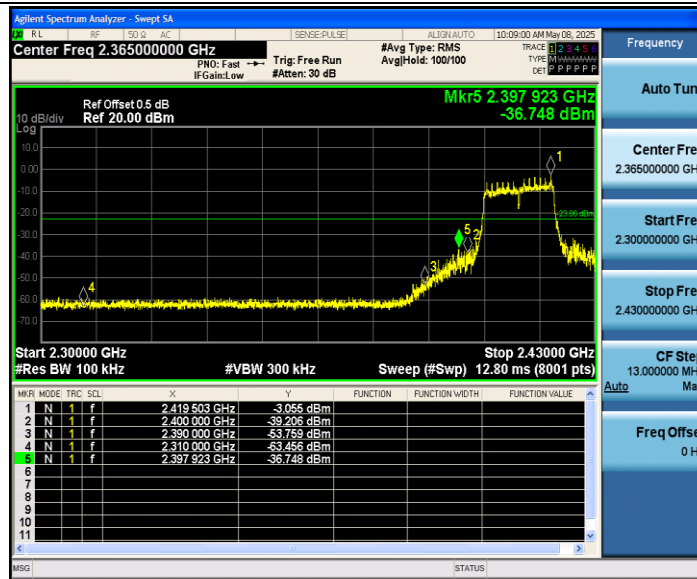
11B_Ant1_Low_2412



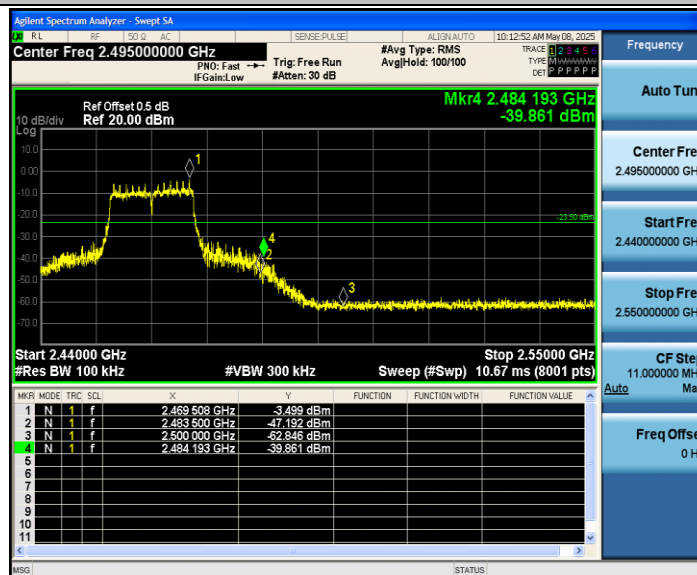
11B_Ant1_High_2462



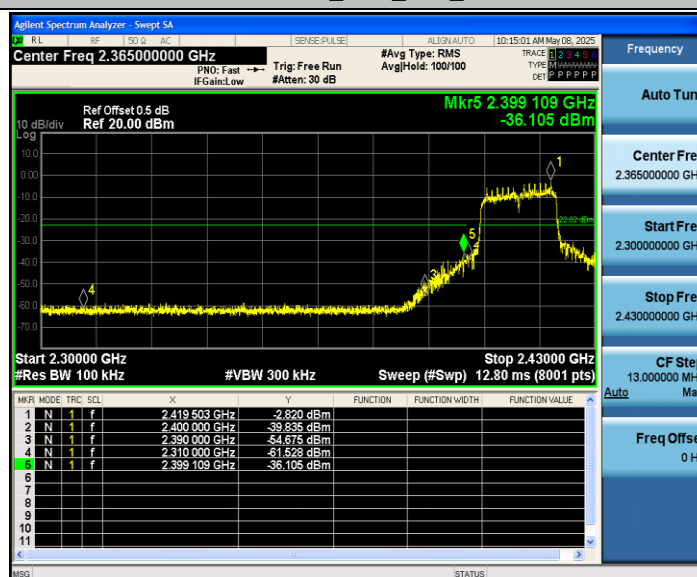
11G_Ant1_Low_2412



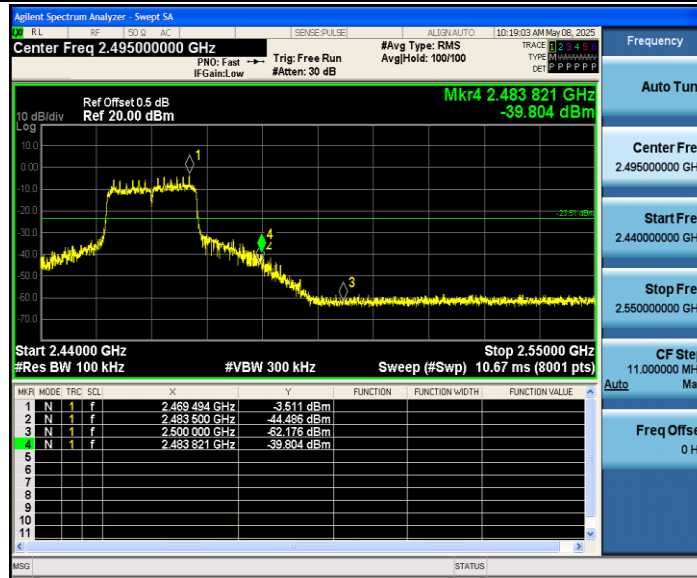
11G_Ant1_High_2462



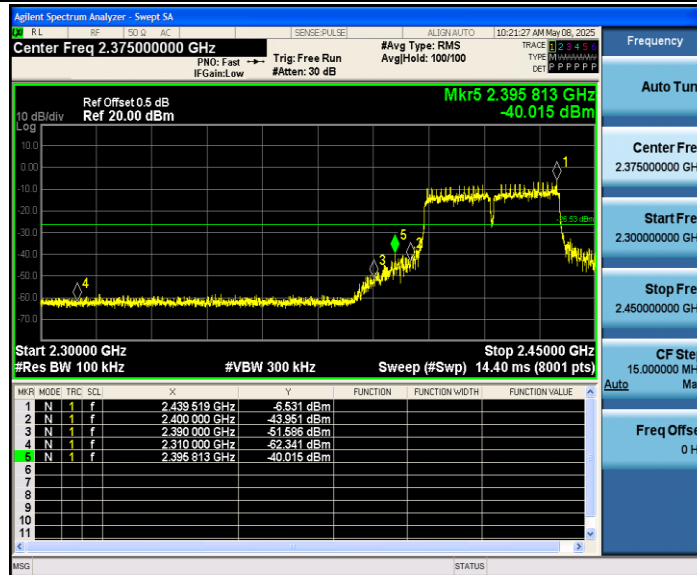
11N20SISO_Ant1_Low_2412



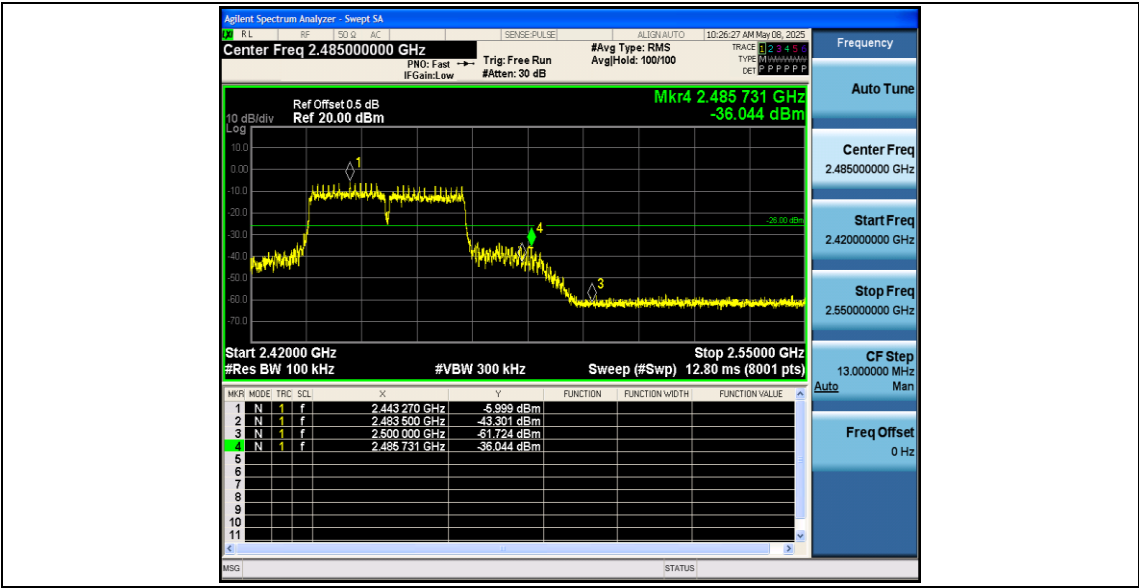
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

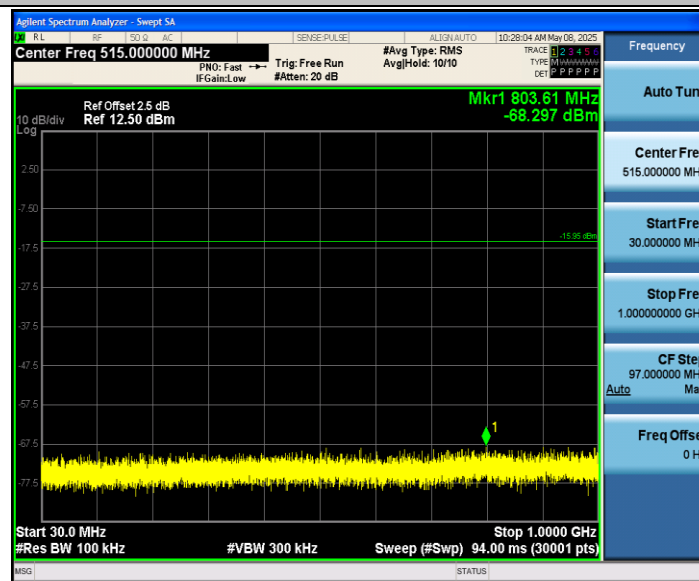
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.05	4.05	---	PASS
			30~1000	4.05	-68.3	≤-15.95	PASS
			1000~26500	4.05	-37.93	≤-15.95	PASS
		2437	Reference	3.47	3.47	---	PASS
			30~1000	3.47	-68.05	≤-16.53	PASS
			1000~26500	3.47	-35.99	≤-16.53	PASS
		2462	Reference	3.22	3.22	---	PASS
			30~1000	3.22	-68.28	≤-16.78	PASS
			1000~26500	3.22	-29.69	≤-16.78	PASS
11G	Ant1	2412	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-68.17	≤-21.48	PASS
			1000~26500	-1.48	-50.98	≤-21.48	PASS
		2437	Reference	-1.67	-1.67	---	PASS
			30~1000	-1.67	-67.76	≤-21.67	PASS
			1000~26500	-1.67	-48.37	≤-21.67	PASS
		2462	Reference	-2.99	-2.99	---	PASS
			30~1000	-2.99	-68.22	≤-22.99	PASS
			1000~26500	-2.99	-43.28	≤-22.99	PASS
11N20SISO	Ant1	2412	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-68.49	≤-21.02	PASS
			1000~26500	-1.02	-49.83	≤-21.02	PASS
		2437	Reference	-2.12	-2.12	---	PASS
			30~1000	-2.12	-68.03	≤-22.12	PASS
			1000~26500	-2.12	-50.94	≤-22.12	PASS
		2462	Reference	-2.74	-2.74	---	PASS
			30~1000	-2.74	-66.45	≤-22.74	PASS
			1000~26500	-2.74	-46.84	≤-22.74	PASS
11N40SISO	Ant1	2422	Reference	-4.35	-4.35	---	PASS
			30~1000	-4.35	-68.49	≤-24.35	PASS
			1000~26500	-4.35	-51.85	≤-24.35	PASS
		2437	Reference	-6.75	-6.75	---	PASS
			30~1000	-6.75	-69.26	≤-26.75	PASS
			1000~26500	-6.75	-50.2	≤-26.75	PASS
		2452	Reference	-4.11	-4.11	---	PASS
			30~1000	-4.11	-68.57	≤-24.11	PASS
			1000~26500	-4.11	-49.08	≤-24.11	PASS

Test Graphs

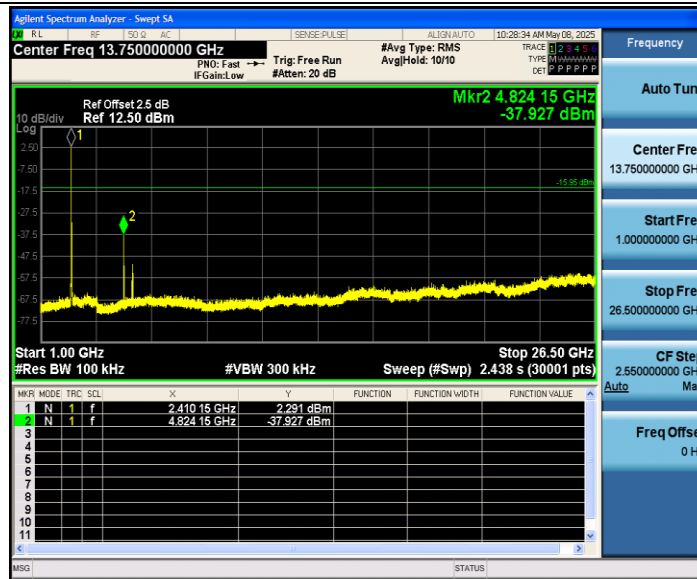
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



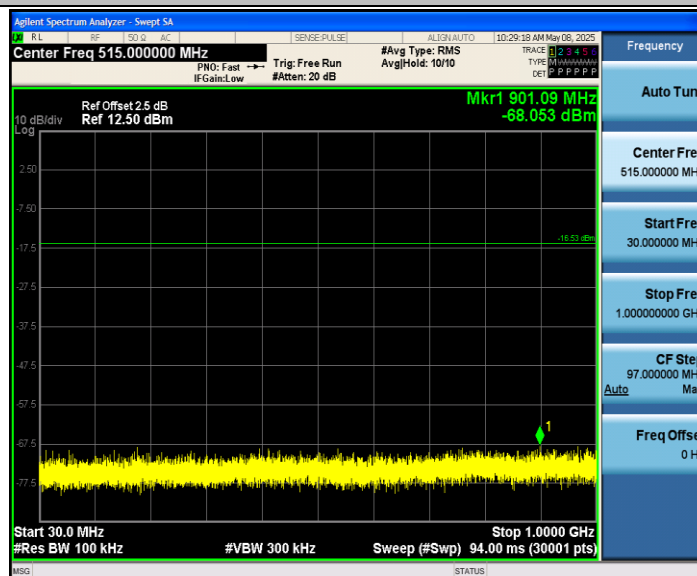
11B_Ant1_2412_1000~26500



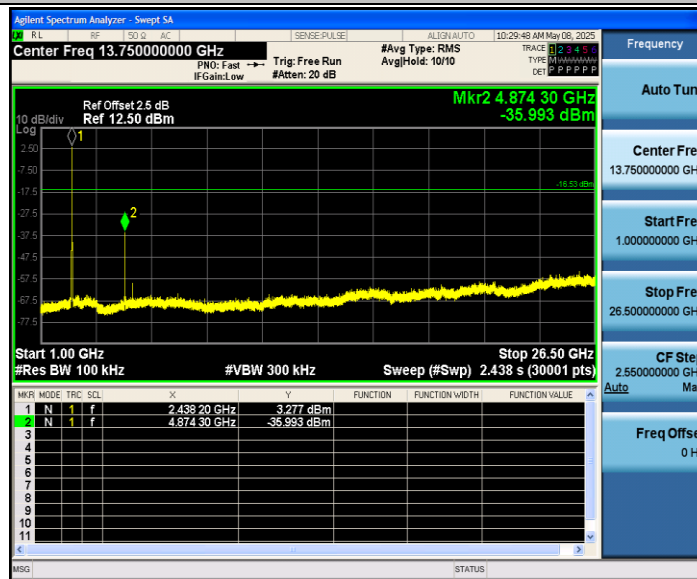
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



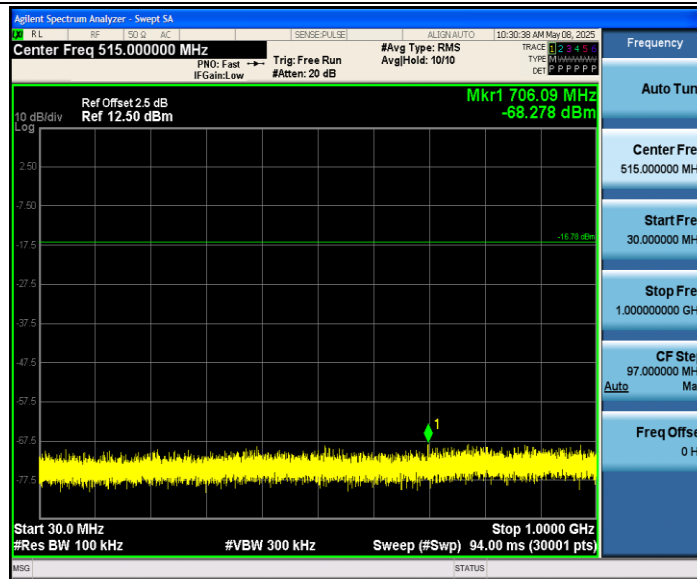
11B_Ant1_2437_1000~26500



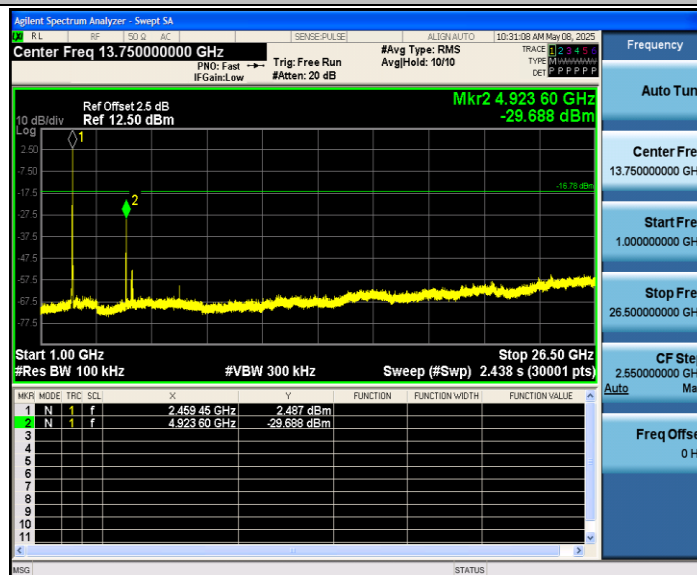
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



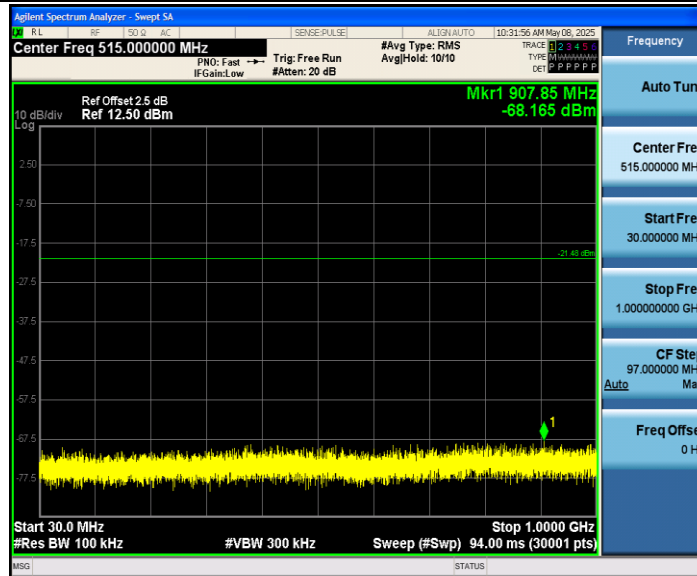
11B_Ant1_2462_1000~26500



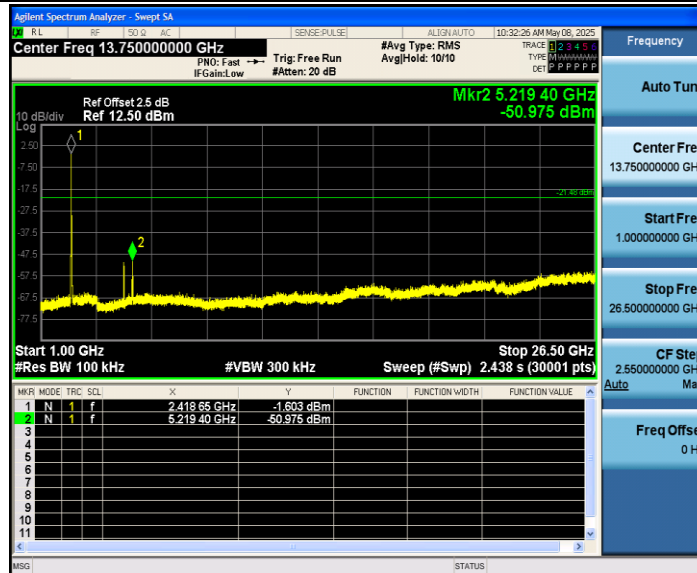
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



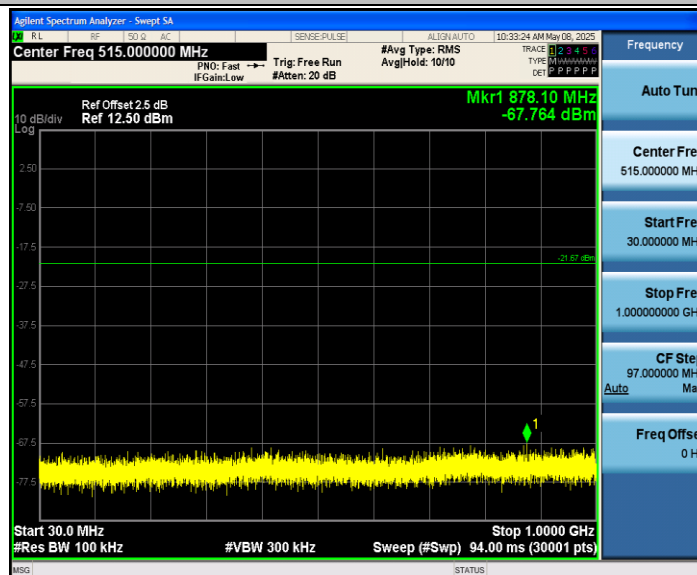
11G_Ant1_2412_1000~26500



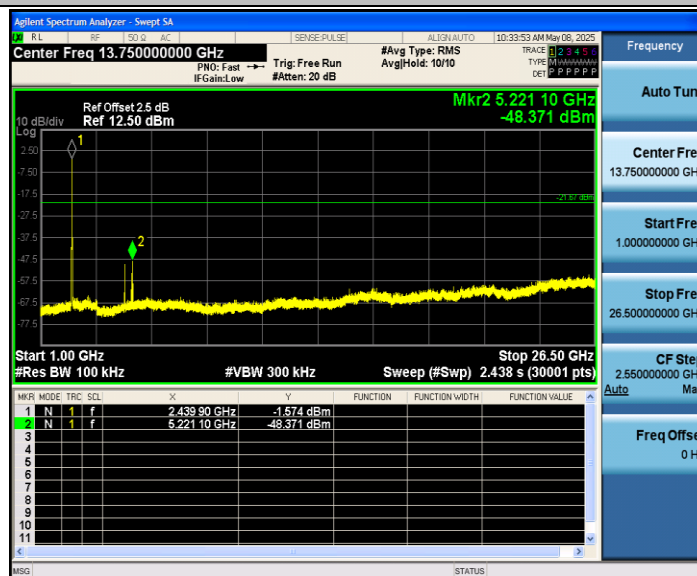
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



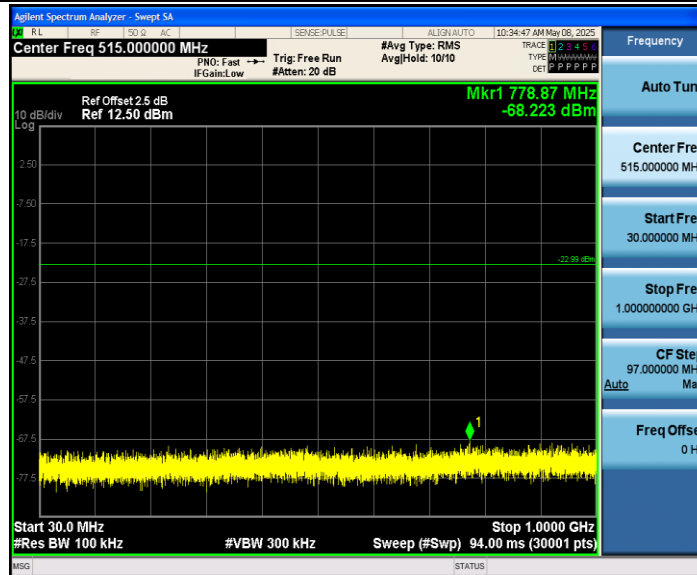
11G_Ant1_2437_1000~26500



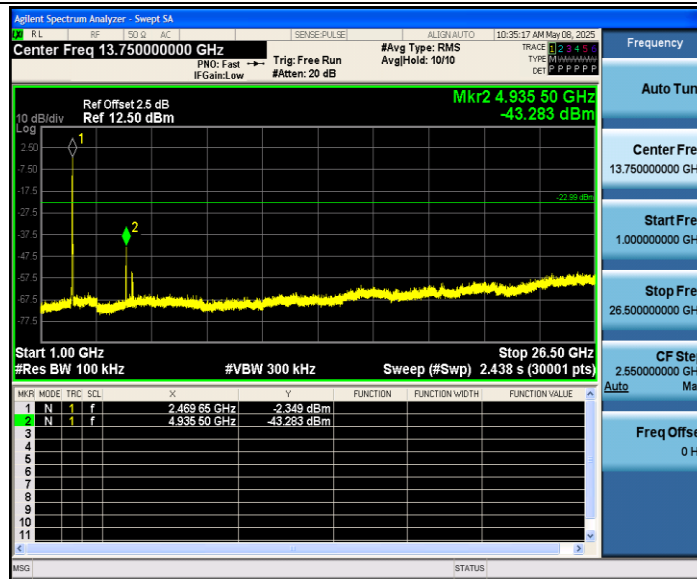
11G_Ant1_2462_0~Reference



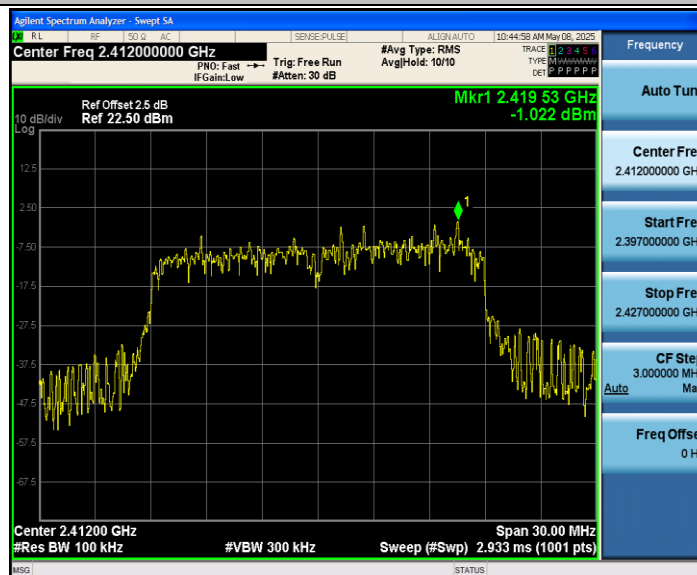
11G_Ant1_2462_30~1000



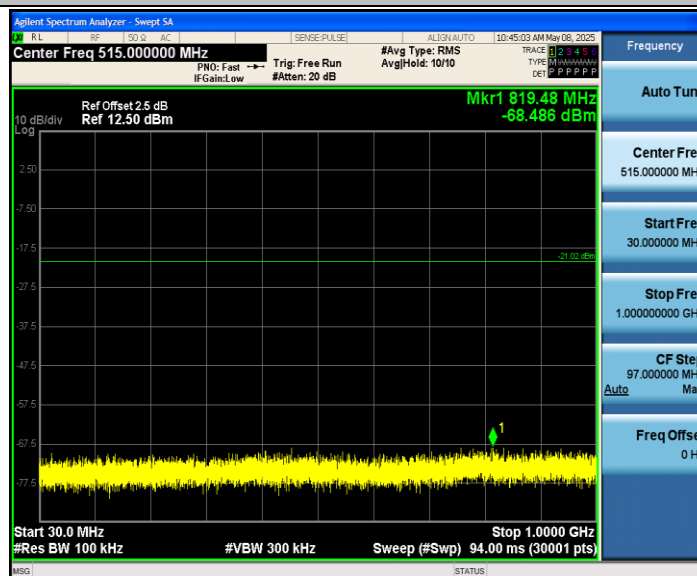
11G_Ant1_2462_1000~26500



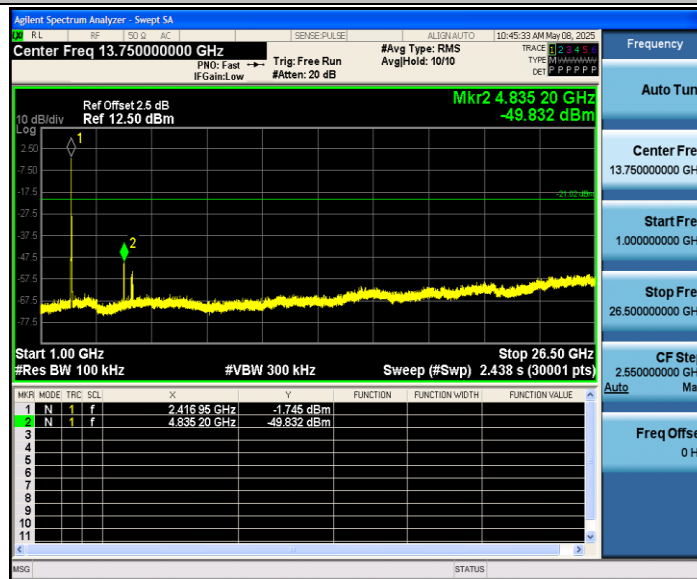
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000