

FCC Appendix RF Test Data

FCC ID : 2ATOW-TD-94X1SXL

Company : SHENZHEN TVT DIGITAL TECHNOLOGY CO.,LTD.

EUT : IP Camera

Model Number : TD-9441S4L-KT

Report No. : CTA25061002101

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	9.520	2407.000	2416.520	0.5	PASS
		2437	9.520	2432.000	2441.520	0.5	PASS
		2462	9.520	2457.000	2466.520	0.5	PASS
11G	Ant1	2412	15.680	2404.480	2420.160	0.5	PASS
		2437	15.280	2429.440	2444.720	0.5	PASS
		2462	16.280	2453.880	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.840	2403.800	2420.640	0.5	PASS
		2437	15.920	2429.440	2445.360	0.5	PASS
		2462	16.680	2453.960	2470.640	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

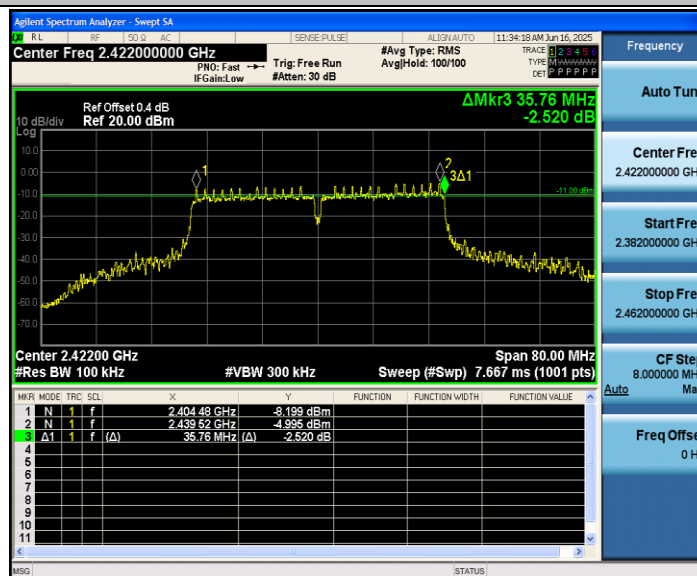




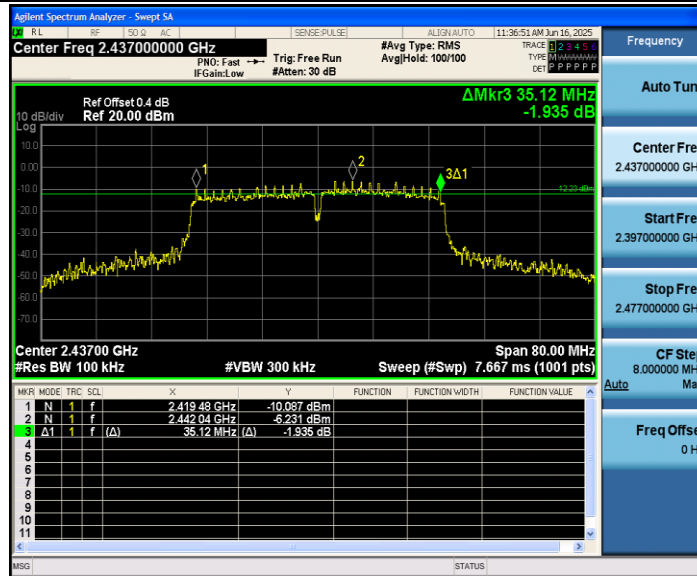
11N20SISO_Ant1_2462



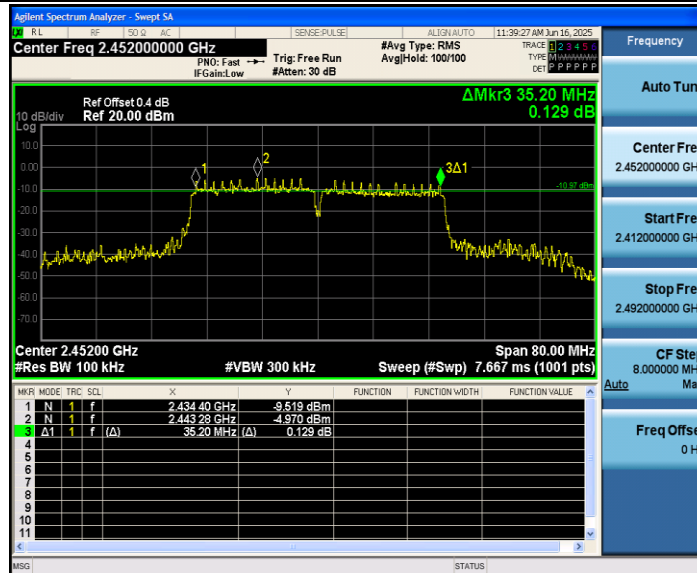
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



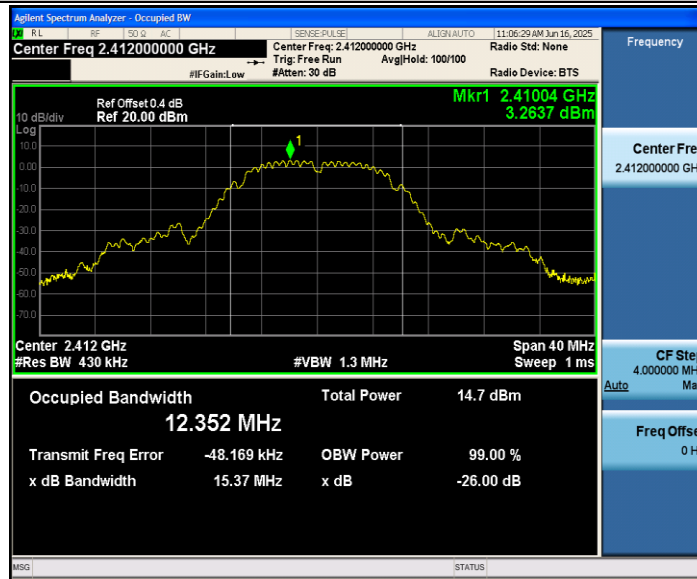
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.352	2405.7758	2418.1278	---	---
		2437	11.560	2431.0002	2442.5602	---	---
		2462	12.710	2455.4683	2468.1783	---	---
11G	Ant1	2412	16.701	2403.8031	2420.5041	---	---
		2437	16.619	2428.7837	2445.4027	---	---
		2462	16.959	2453.6497	2470.6087	---	---
11N20SISO	Ant1	2412	17.846	2403.2813	2421.1273	---	---
		2437	17.588	2428.3095	2445.8975	---	---
		2462	18.046	2453.1487	2471.1947	---	---
11N40SISO	Ant1	2422	36.333	2404.1314	2440.4644	---	---
		2437	36.012	2419.0722	2455.0842	---	---
		2452	36.443	2433.8879	2470.3309	---	---

Test Graphs

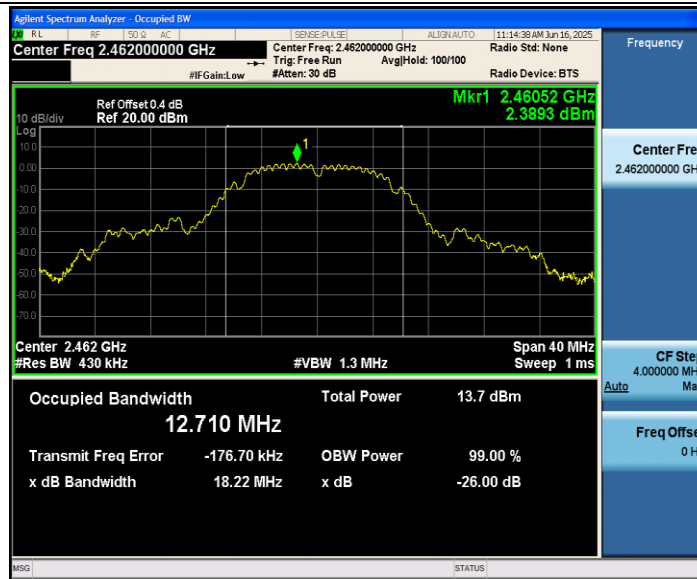
11B_Ant1_2412



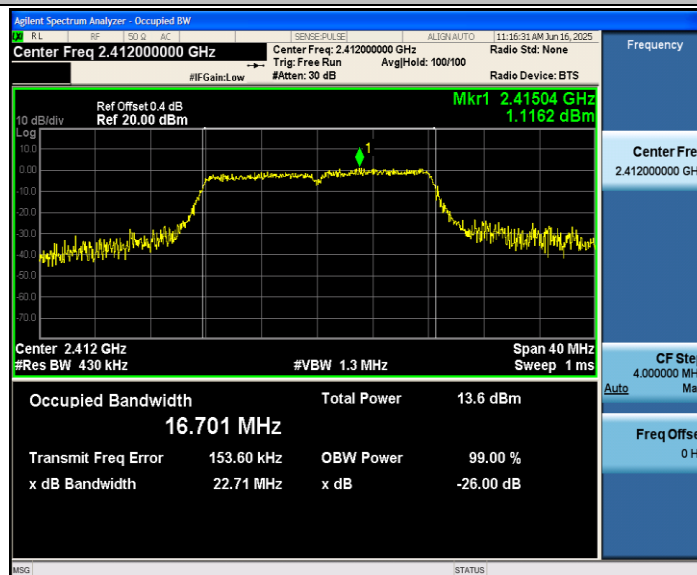
11B_Ant1_2437



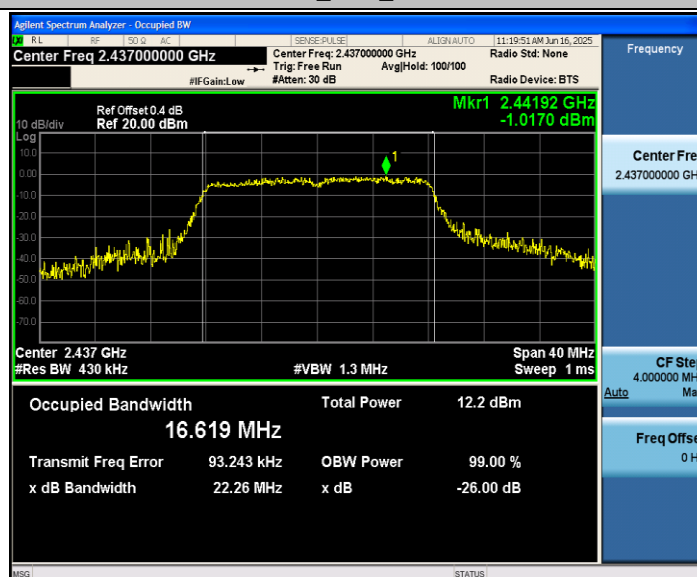
11B_Ant1_2462



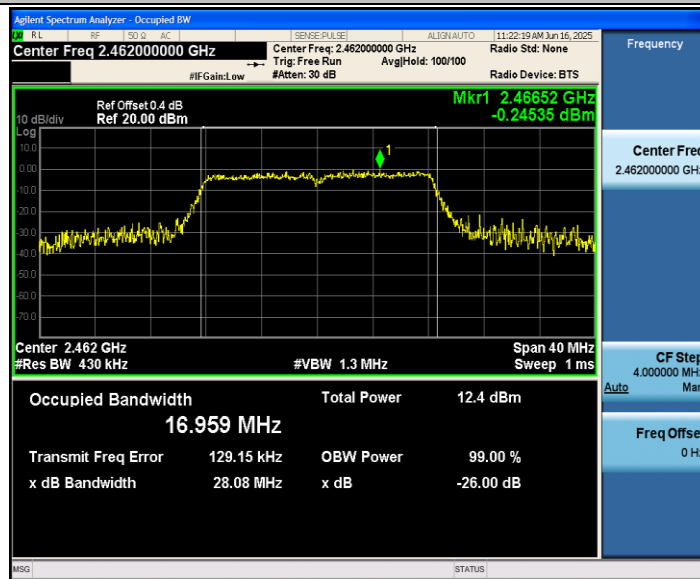
11G_Ant1_2412



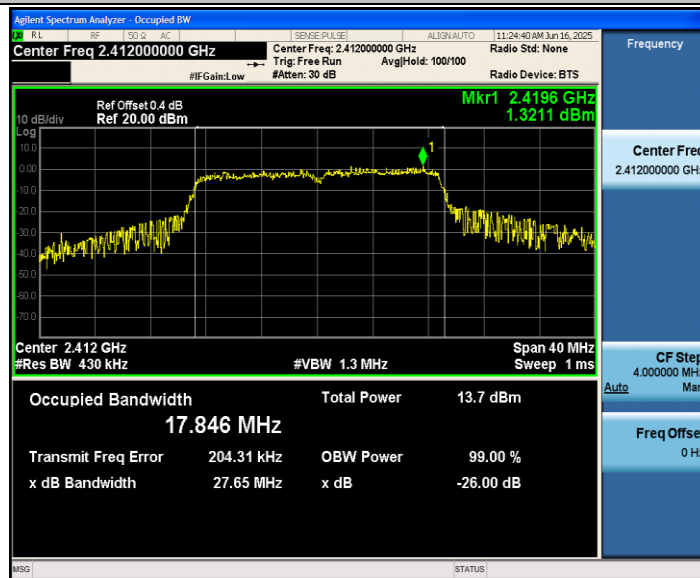
11G_Ant1_2437



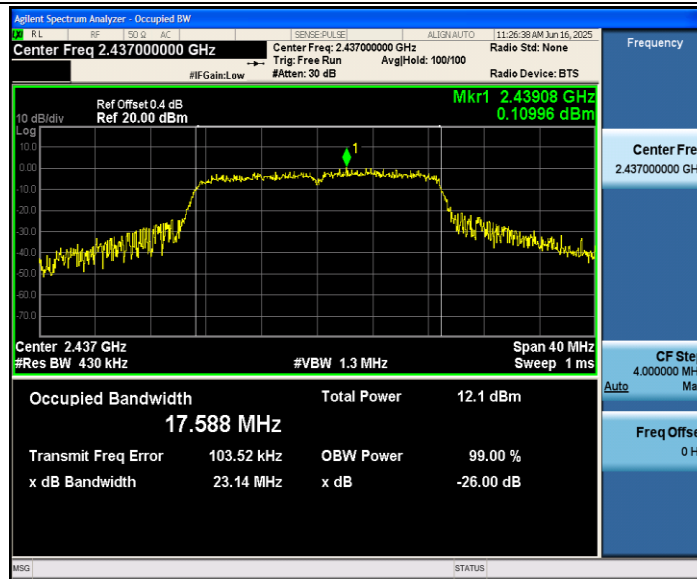
11G_Ant1_2462



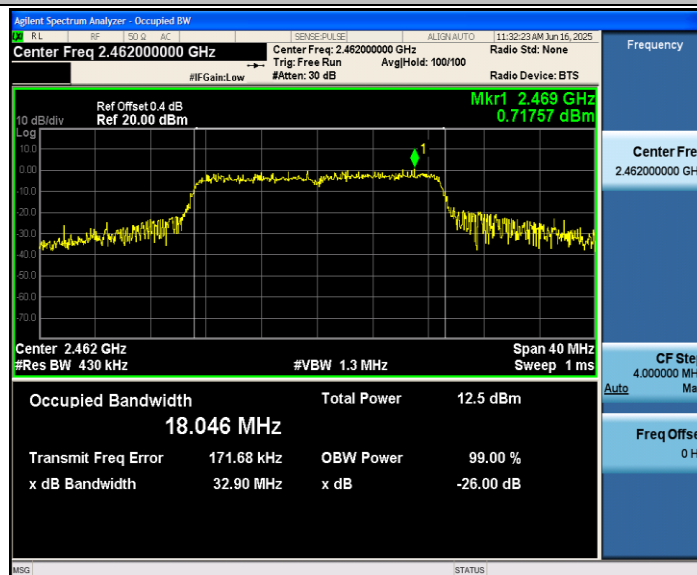
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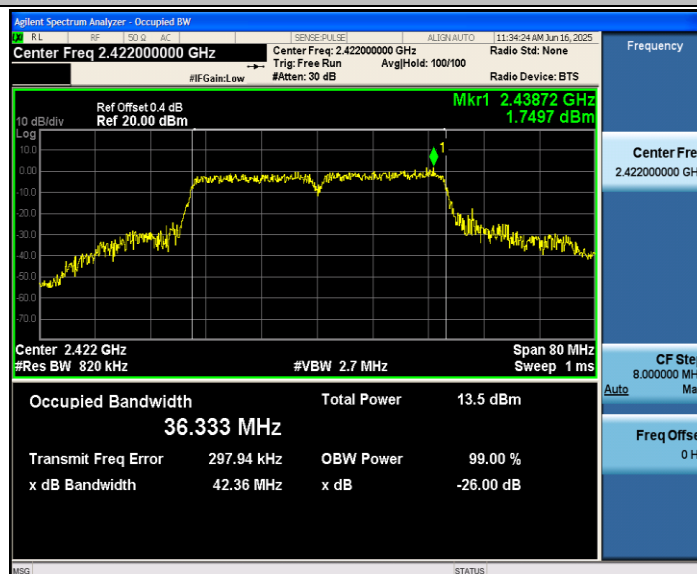
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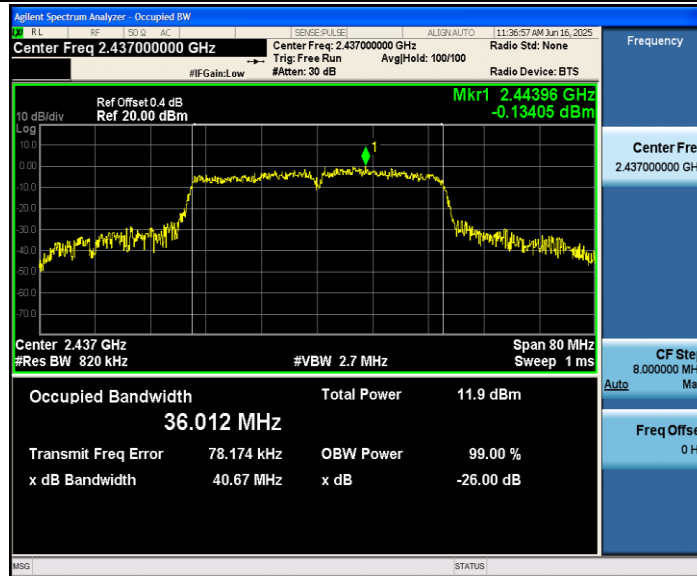
11N20SISO_Ant1_2462



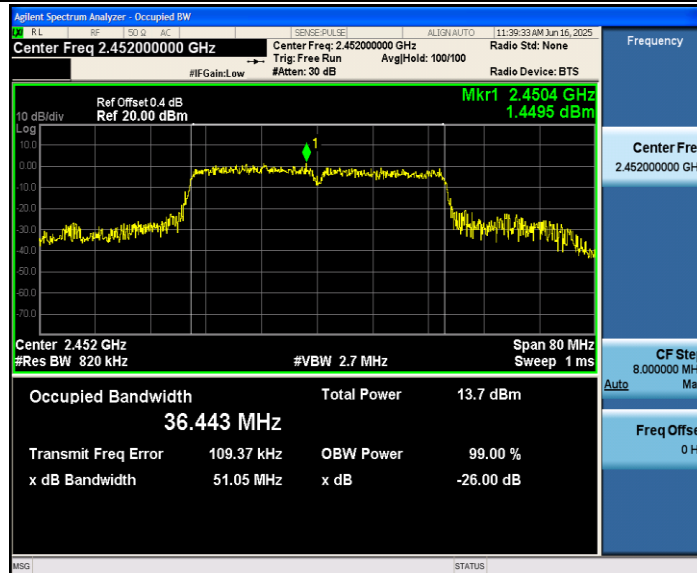
11N40SISO_Ant1_2422



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	14.57	≤30.00	PASS
		2437	13.45	≤30.00	PASS
		2462	13.52	≤30.00	PASS
11G	Ant1	2412	14.15	≤30.00	PASS
		2437	12.72	≤30.00	PASS
		2462	13.11	≤30.00	PASS
11N20SISO	Ant1	2412	14.12	≤30.00	PASS
		2437	12.65	≤30.00	PASS
		2462	13.18	≤30.00	PASS
11N40SISO	Ant1	2422	13.54	≤30.00	PASS
		2437	11.91	≤30.00	PASS
		2452	13.83	≤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	-11.60	≤8.00	PASS
		2437	-11.95	≤8.00	PASS
		2462	-10.95	≤8.00	PASS
11G	Ant1	2412	-17.16	≤8.00	PASS
		2437	-19.08	≤8.00	PASS
		2462	-18.62	≤8.00	PASS
11N20SISO	Ant1	2412	-17.14	≤8.00	PASS
		2437	-19.71	≤8.00	PASS
		2462	-19.09	≤8.00	PASS
11N40SISO	Ant1	2422	-21.18	≤8.00	PASS
		2437	-21.80	≤8.00	PASS
		2452	-20.35	≤8.00	PASS

Test Graphs

11B_Ant1_2412



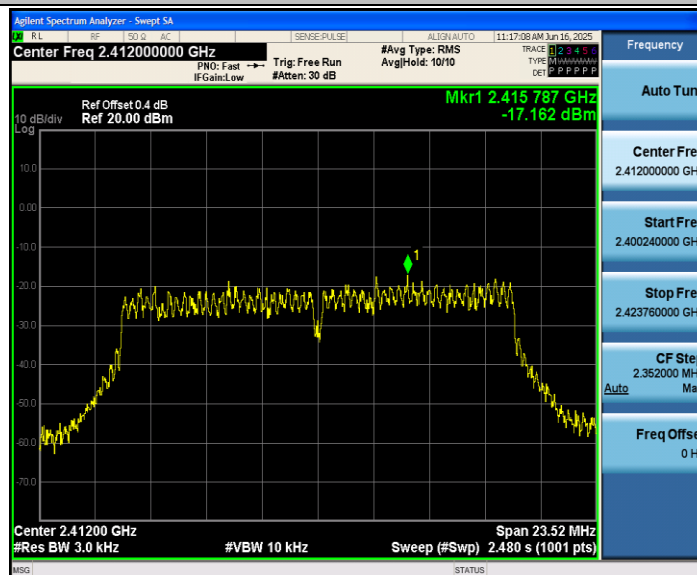
11B_Ant1_2437



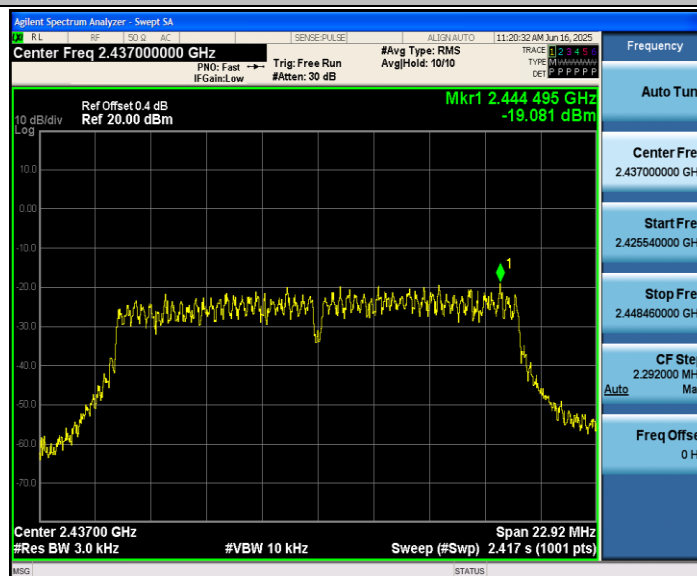
11B_Ant1_2462



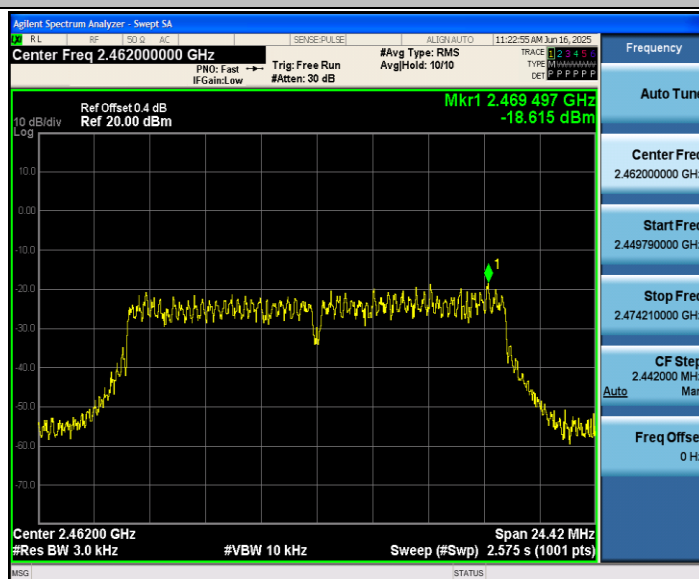
11G_Ant1_2412



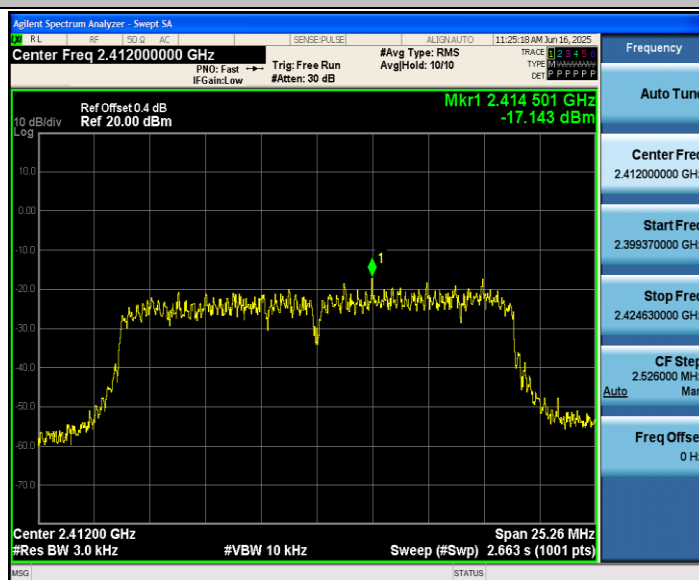
11G_Ant1_2437



11G_Ant1_2462



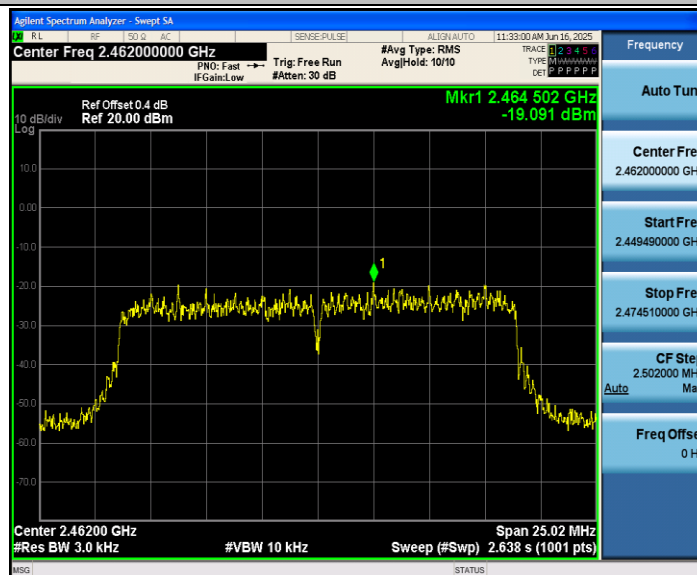
11N20SISO_Ant1_2412



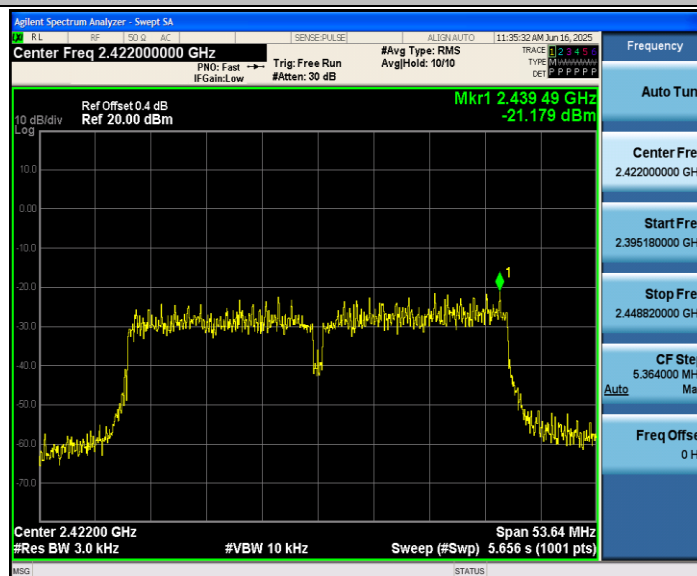
11N20SISO_Ant1_2437



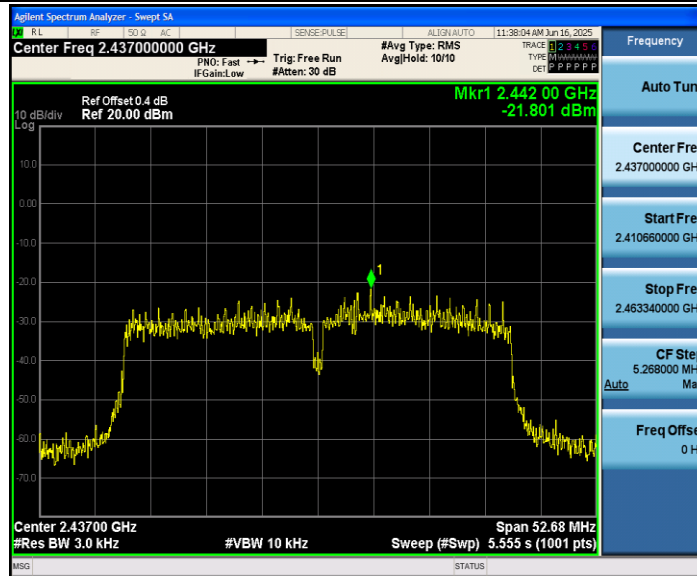
11N20SISO_Ant1_2462



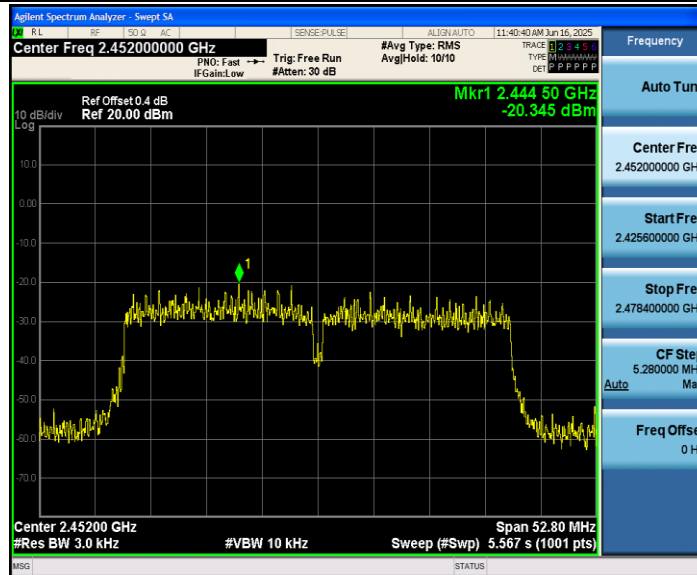
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



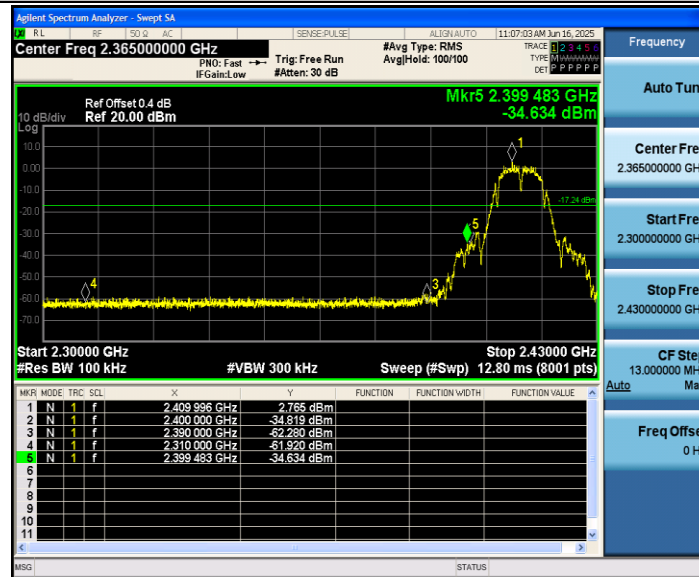
Appendix E: Band edge measurements

Test Result

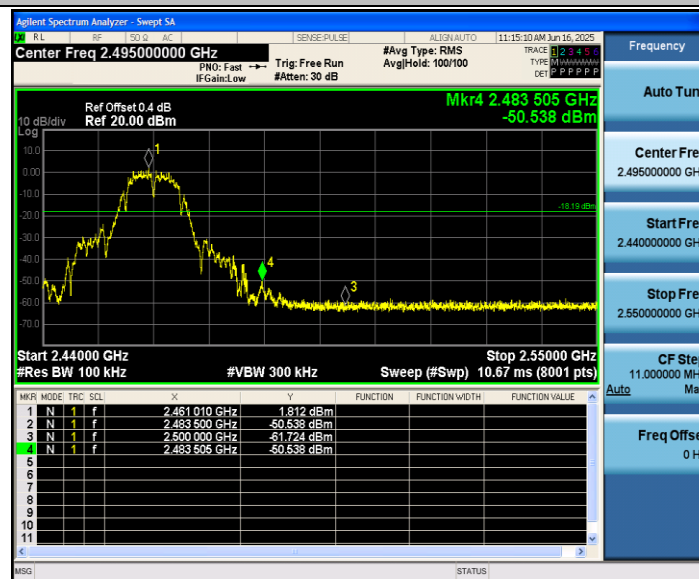
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.77	-34.63	≤-17.24	PASS
		High	2462	1.81	-50.54	≤-18.19	PASS
11G	Ant1	Low	2412	-1.44	-34.9	≤-21.44	PASS
		High	2462	-3.02	-41.45	≤-23.02	PASS
11N20SISO	Ant1	Low	2412	-1.54	-34.29	≤-21.54	PASS
		High	2462	-2.69	-38.69	≤-22.69	PASS
11N40SISO	Ant1	Low	2422	-4.98	-36.48	≤-24.98	PASS
		High	2452	-5.07	-36.34	≤-25.07	PASS

Test Graphs

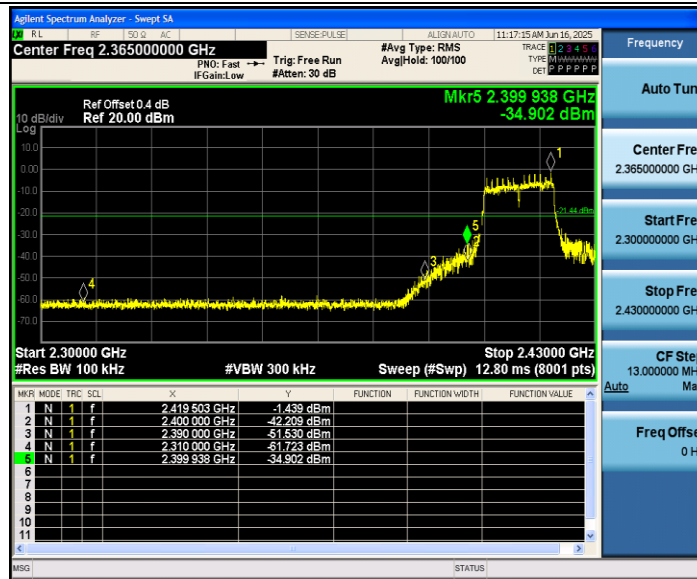
11B_Ant1_Low_2412



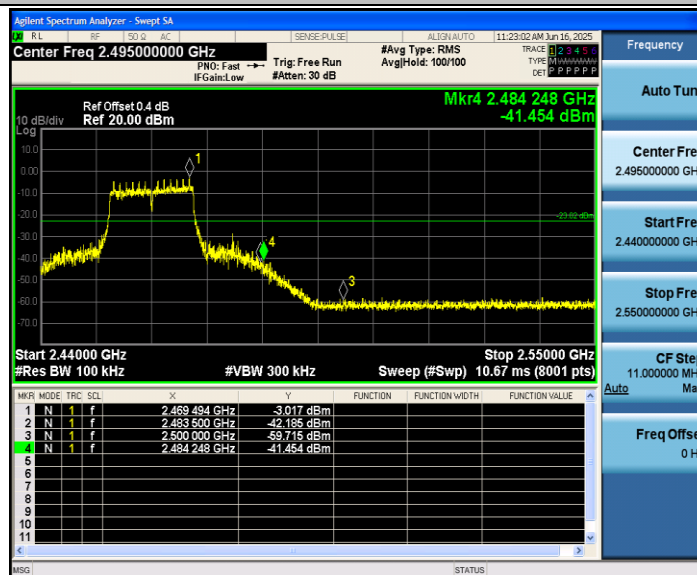
11B_Ant1_High_2462



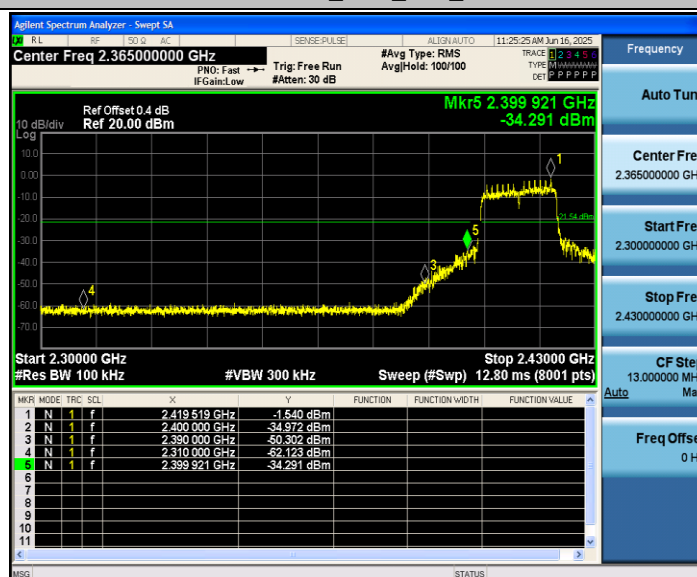
11G_Ant1_Low_2412



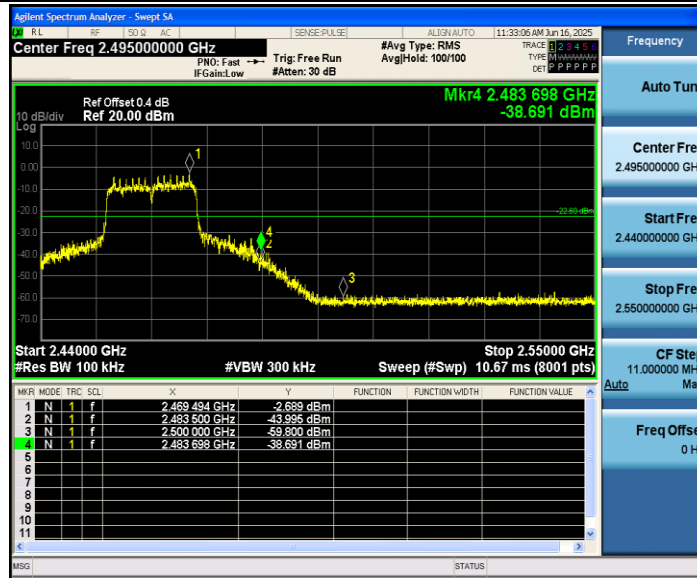
11G_Ant1_High_2462



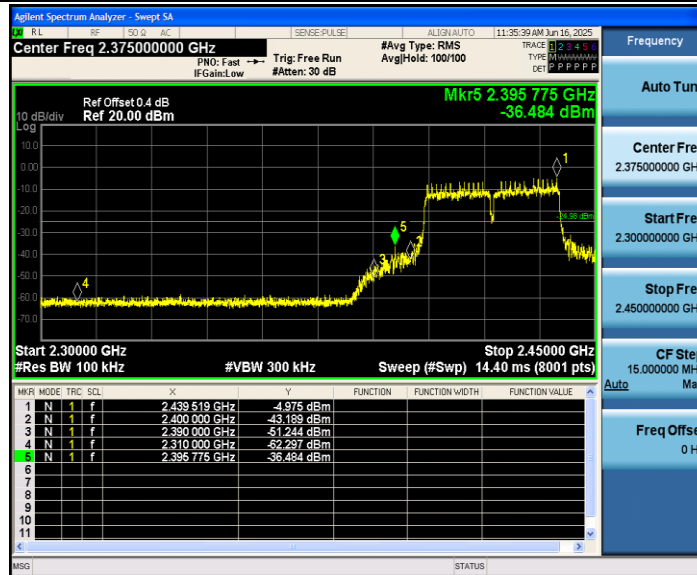
11N20SISO_Ant1_Low_2412



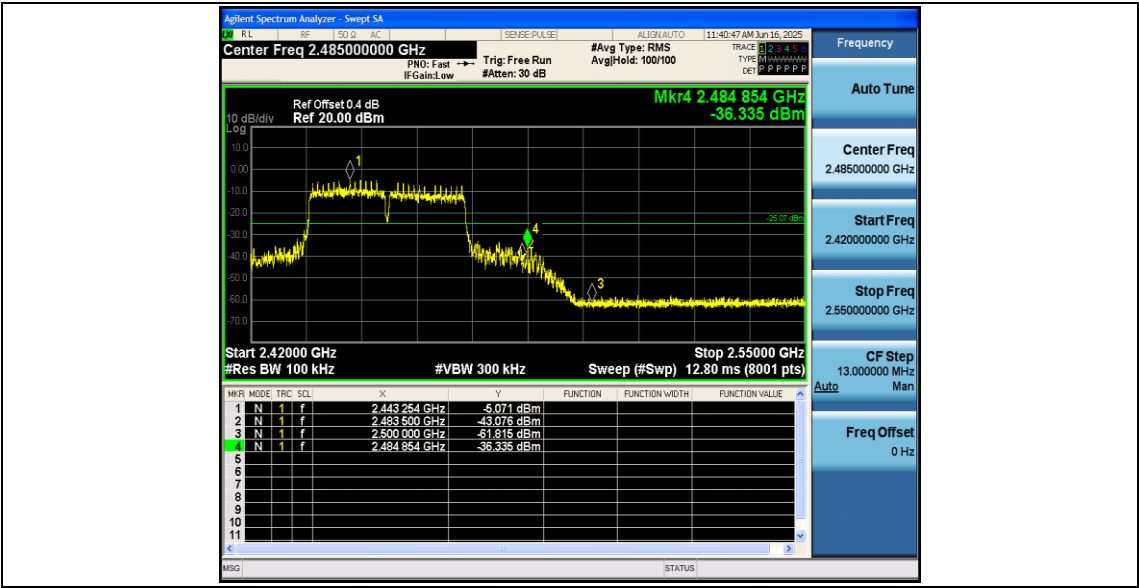
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

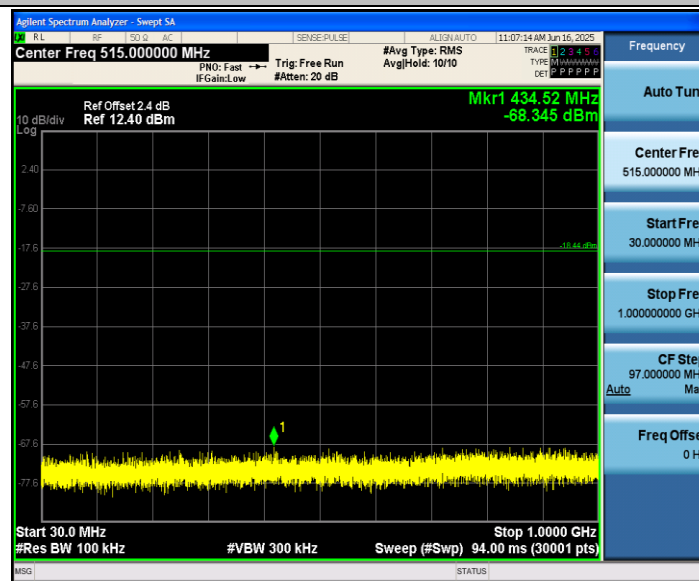
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.56	1.56	---	PASS
			30~1000	1.56	-68.35	≤-18.44	PASS
			1000~26500	1.56	-38.32	≤-18.44	PASS
		2437	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-67.19	≤-19.95	PASS
			1000~26500	0.05	-37.75	≤-19.95	PASS
		2462	Reference	-0.06	-0.06	---	PASS
			30~1000	-0.06	-68.19	≤-20.06	PASS
			1000~26500	-0.06	-31.15	≤-20.06	PASS
11G	Ant1	2412	Reference	-2.26	-2.26	---	PASS
			30~1000	-2.26	-67.1	≤-22.26	PASS
			1000~26500	-2.26	-48.44	≤-22.26	PASS
		2437	Reference	-3.80	-3.80	---	PASS
			30~1000	-3.80	-67.11	≤-23.8	PASS
			1000~26500	-3.80	-41.45	≤-23.8	PASS
		2462	Reference	-3.13	-3.13	---	PASS
			30~1000	-3.13	-68.03	≤-23.13	PASS
			1000~26500	-3.13	-42.56	≤-23.13	PASS
11N20SISO	Ant1	2412	Reference	-2.60	-2.60	---	PASS
			30~1000	-2.60	-68.12	≤-22.6	PASS
			1000~26500	-2.60	-49.44	≤-22.6	PASS
		2437	Reference	-3.35	-3.35	---	PASS
			30~1000	-3.35	-67.16	≤-23.35	PASS
			1000~26500	-3.35	-51.03	≤-23.35	PASS
		2462	Reference	-2.78	-2.78	---	PASS
			30~1000	-2.78	-67.68	≤-22.78	PASS
			1000~26500	-2.78	-42.2	≤-22.78	PASS
11N40SISO	Ant1	2422	Reference	-7.19	-7.19	---	PASS
			30~1000	-7.19	-68.24	≤-27.19	PASS
			1000~26500	-7.19	-53.35	≤-27.19	PASS
		2437	Reference	-7.70	-7.70	---	PASS
			30~1000	-7.70	-68.19	≤-27.7	PASS
			1000~26500	-7.70	-55.16	≤-27.7	PASS
		2452	Reference	-5.12	-5.12	---	PASS
			30~1000	-5.12	-68.14	≤-25.12	PASS
			1000~26500	-5.12	-49.21	≤-25.12	PASS

Test Graphs

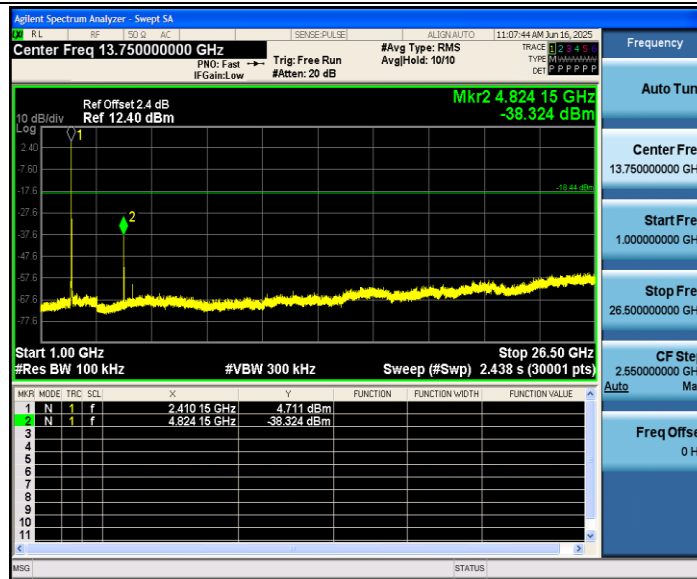
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



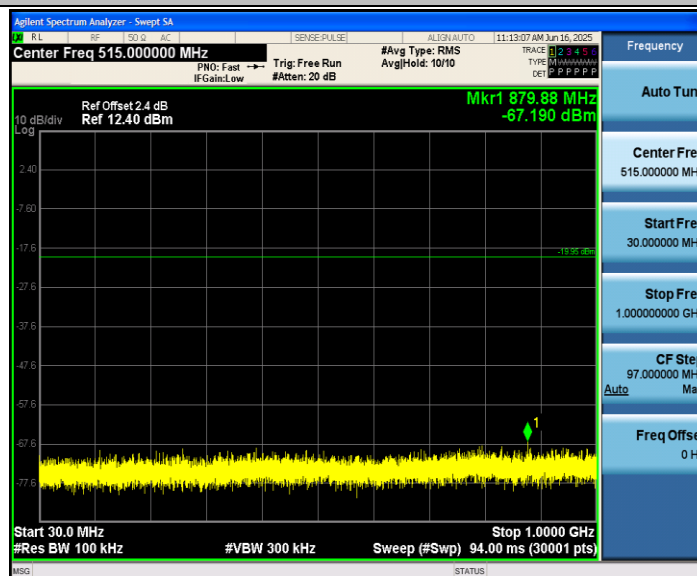
11B_Ant1_2412_1000~26500



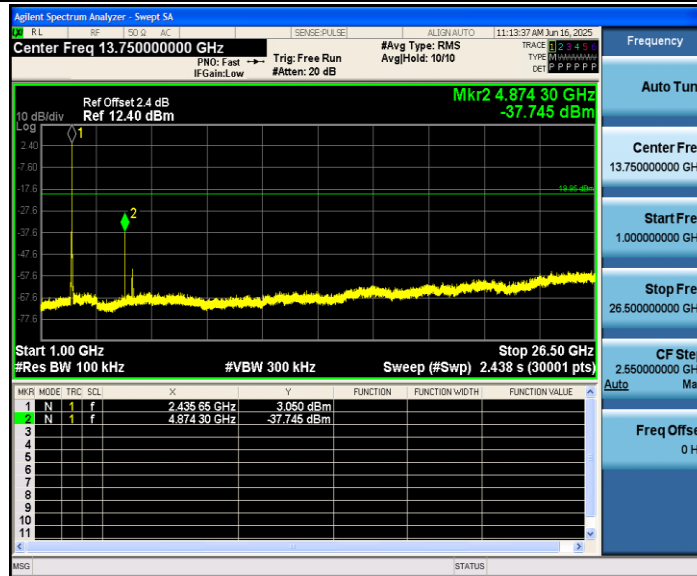
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



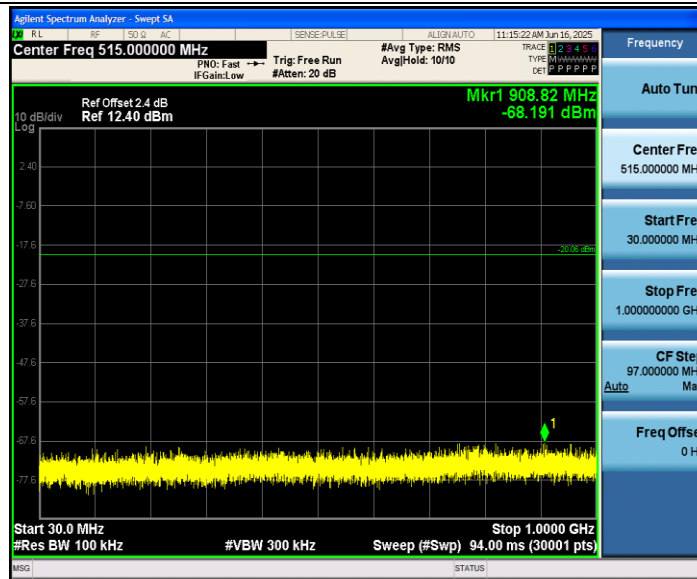
11B_Ant1_2437_1000~26500



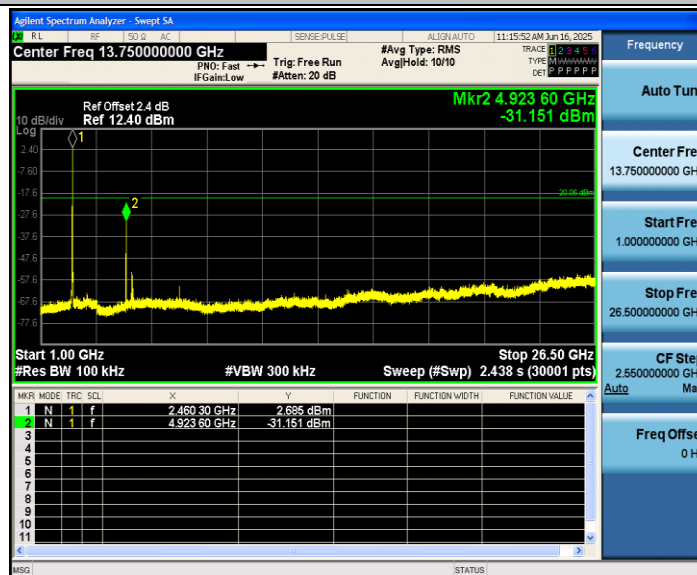
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



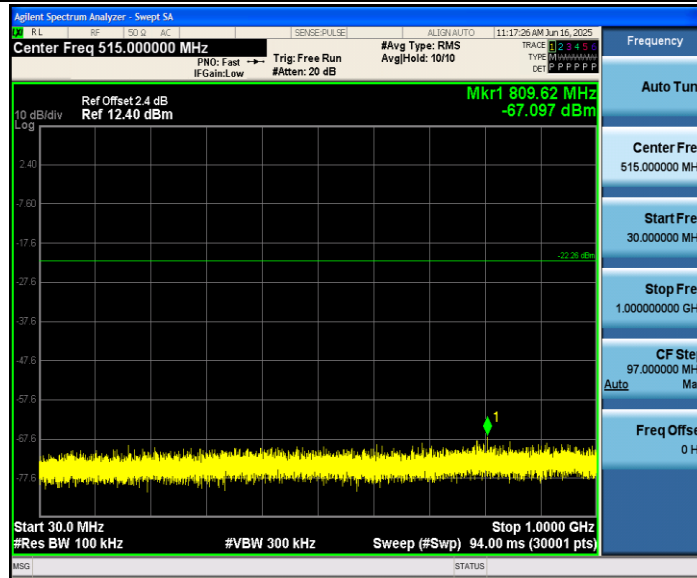
11B_Ant1_2462_1000~26500



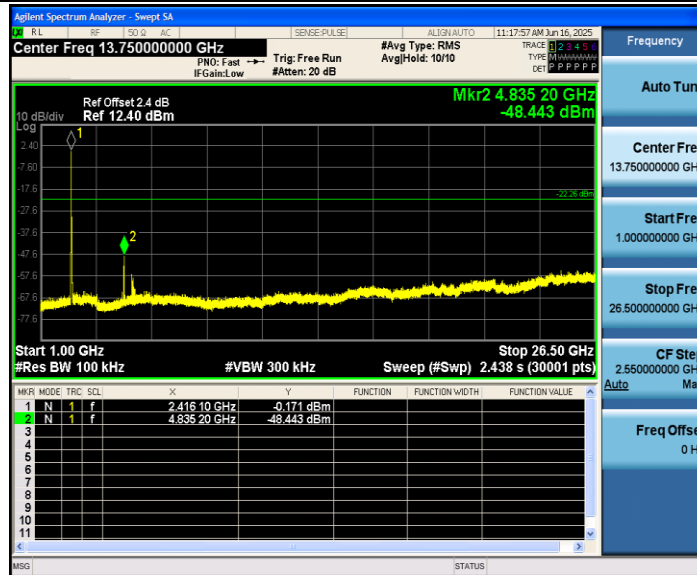
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



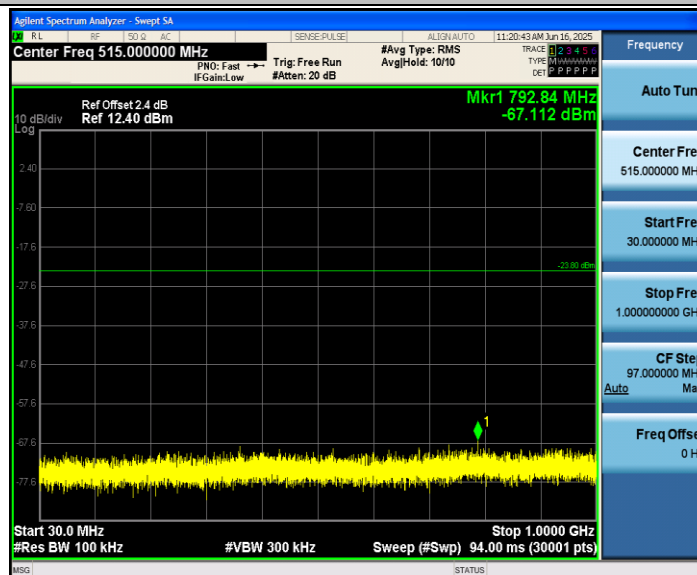
11G_Ant1_2412_1000~26500



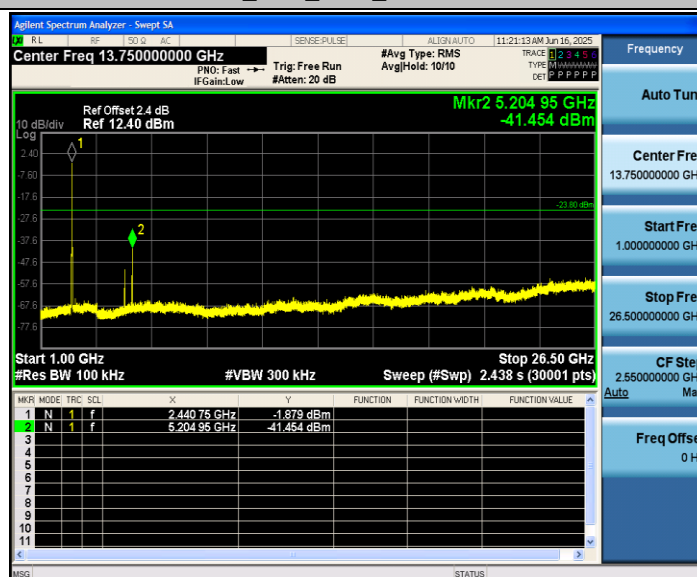
11G_Ant1_2437_0~Reference



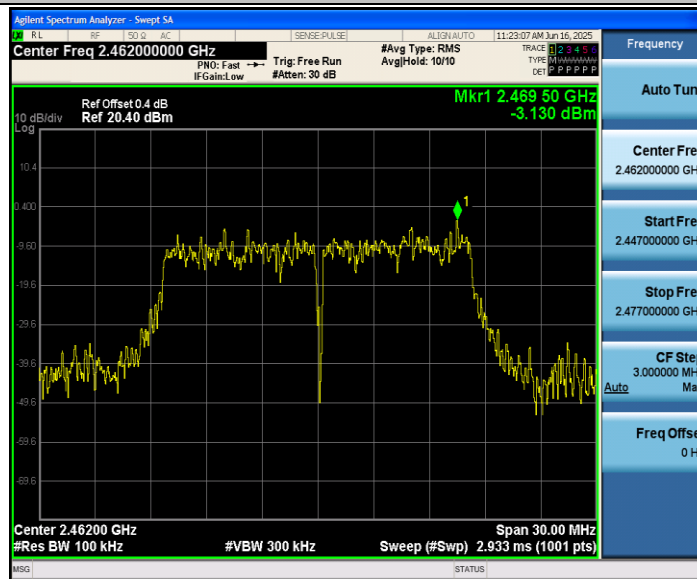
11G_Ant1_2437_30~1000



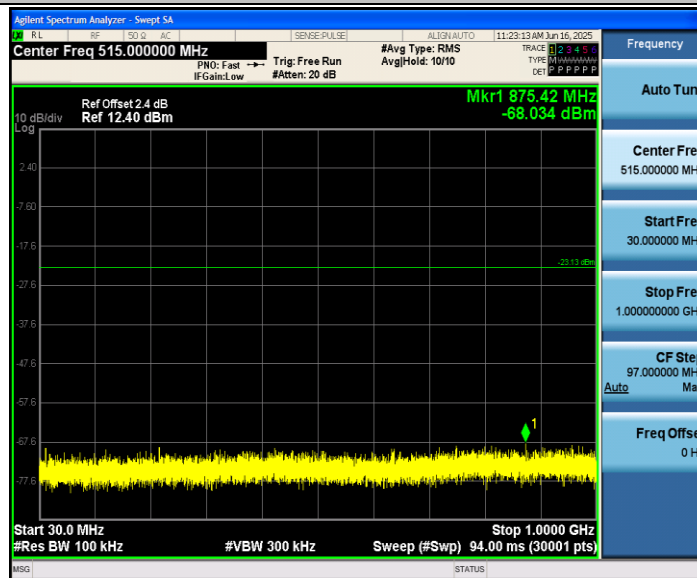
11G_Ant1_2437_1000~26500



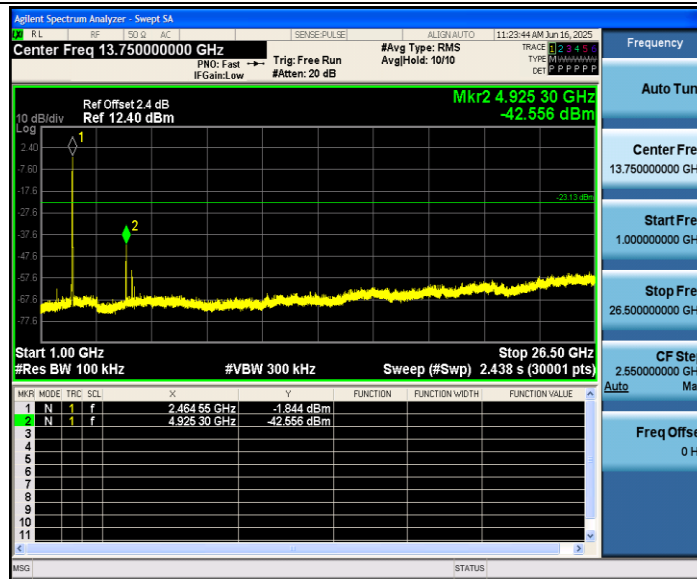
11G_Ant1_2462_0~Reference



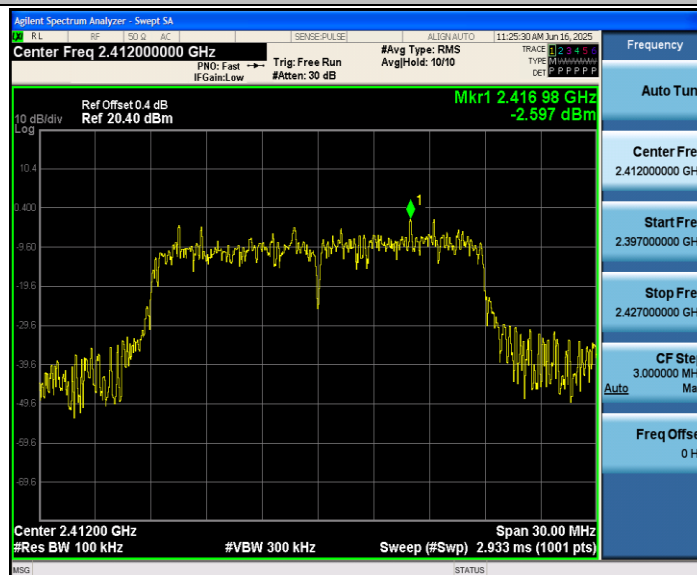
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20ISO_Ant1_2412_0~Reference



11N20ISO_Ant1_2412_30~1000

