

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BV8U-WIF02

Company : Shenzhen Sino-Memory Electronics Co., Ltd

EUT : USB Wireless Adapter

Model Number : WIF02

Report No. : CTA26051100201

Reviewed By : Eric Wang

FCC Appendix RF Test Data for 2.4GWIFI Antenna 1

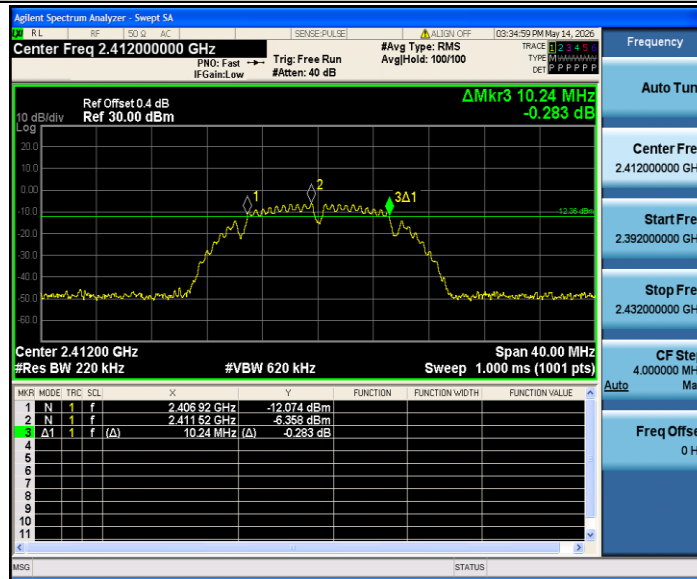
Appendix A: DTS Bandwidth

Test Result

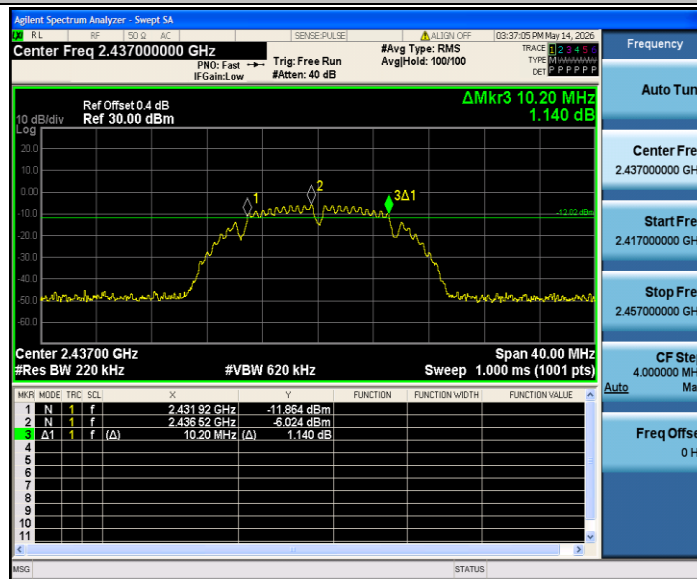
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	15.920	2404.080	2420.000	0.5	PASS
		2437	15.920	2429.080	2445.000	0.5	PASS
		2462	15.920	2454.040	2469.960	0.5	PASS
11N20SISO	Ant1	2412	16.200	2404.240	2420.440	0.5	PASS
		2437	16.560	2428.840	2445.400	0.5	PASS
		2462	16.600	2453.880	2470.480	0.5	PASS
11N40SISO	Ant1	2422	35.280	2404.720	2440.000	0.5	PASS
		2437	35.280	2419.560	2454.840	0.5	PASS
		2452	35.680	2434.000	2469.680	0.5	PASS

Test Graphs

11B_Ant1_2412



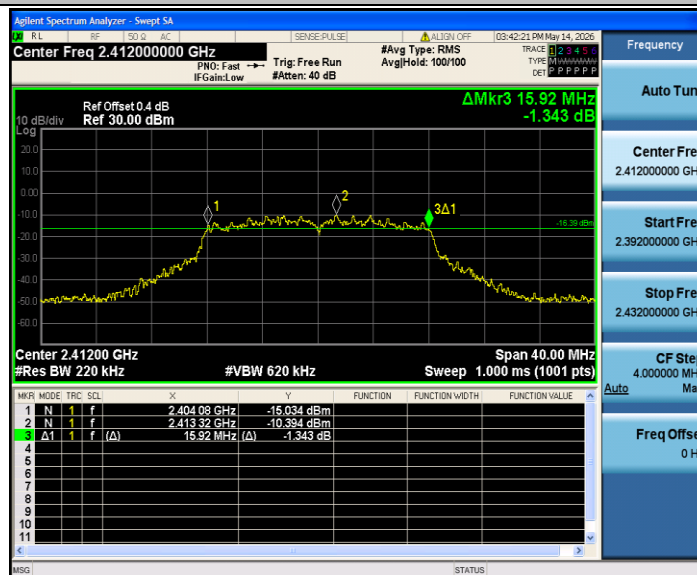
11B_Ant1_2437



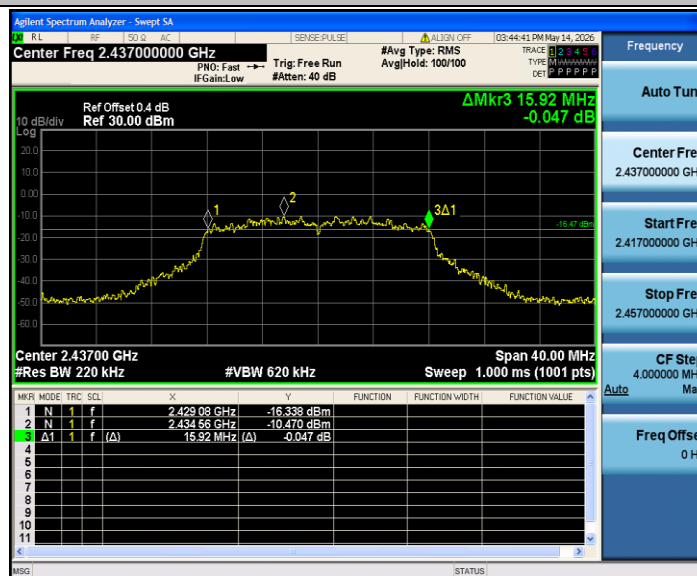
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



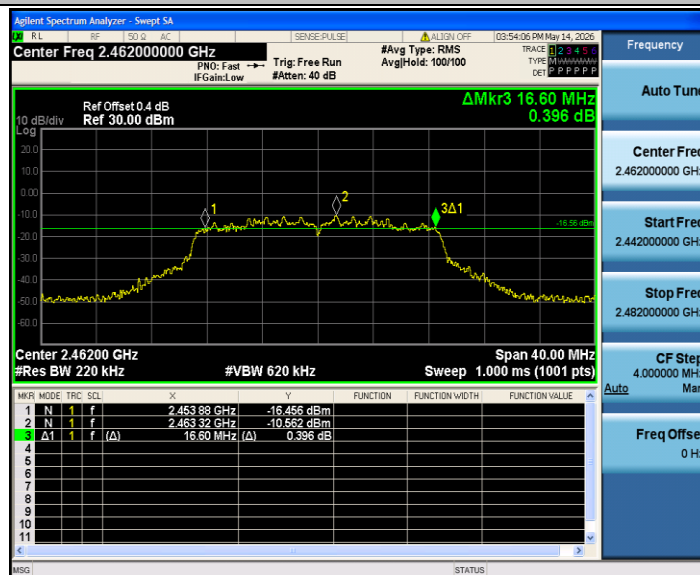
11N20SISO_Ant1_2412



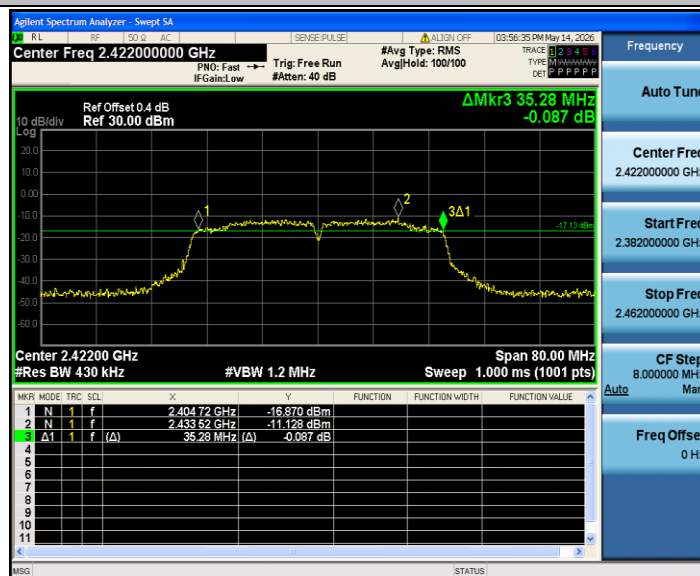
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



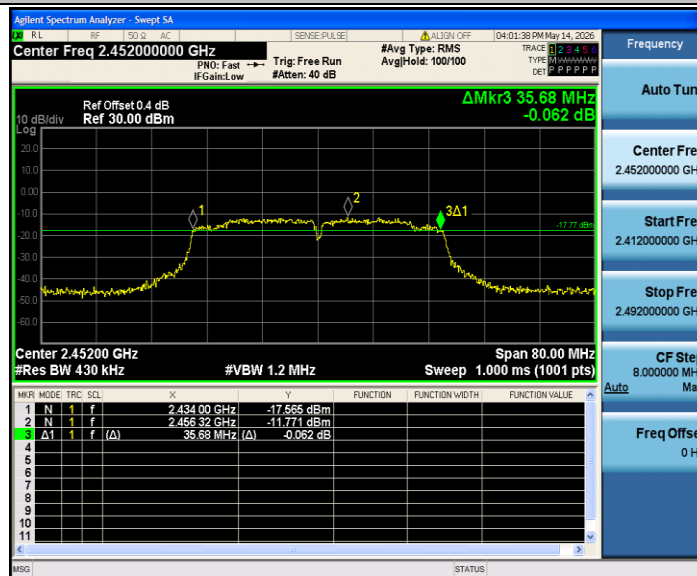
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



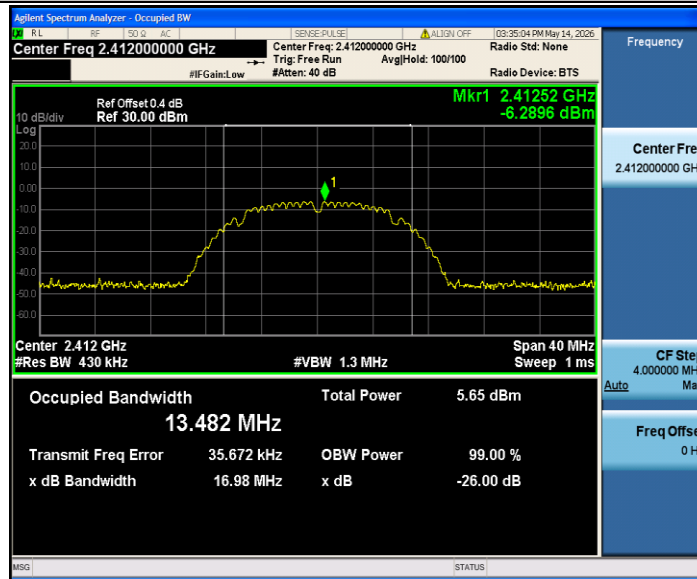
Appendix B: Occupied Channel Bandwidth

Test Result

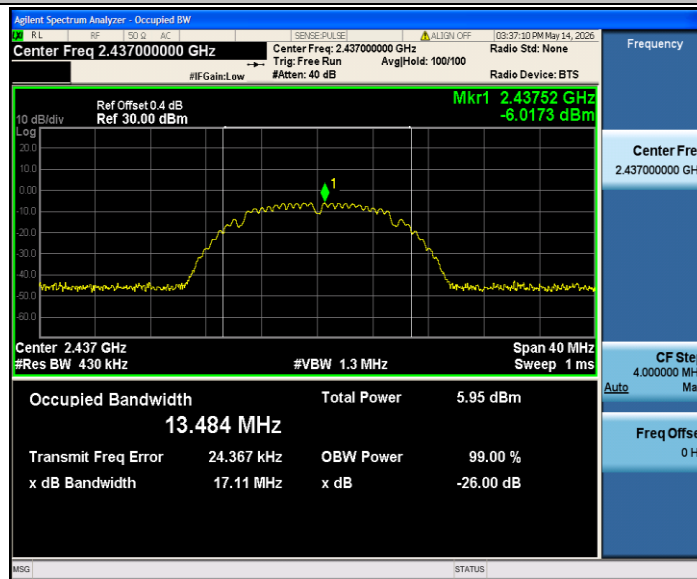
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.482	2405.2947	2418.7767	---	---
		2437	13.484	2430.2824	2443.7664	---	---
		2462	13.479	2455.2812	2468.7602	---	---
11G	Ant1	2412	16.854	2403.6254	2420.4794	---	---
		2437	16.884	2428.6082	2445.4922	---	---
		2462	16.949	2453.6060	2470.5550	---	---
11N20SISO	Ant1	2412	17.949	2403.0691	2421.0181	---	---
		2437	17.961	2428.0627	2446.0237	---	---
		2462	18.001	2453.0279	2471.0289	---	---
11N40SISO	Ant1	2422	36.137	2404.0399	2440.1769	---	---
		2437	36.131	2419.0045	2455.1355	---	---
		2452	36.132	2434.0373	2470.1693	---	---

Test Graphs

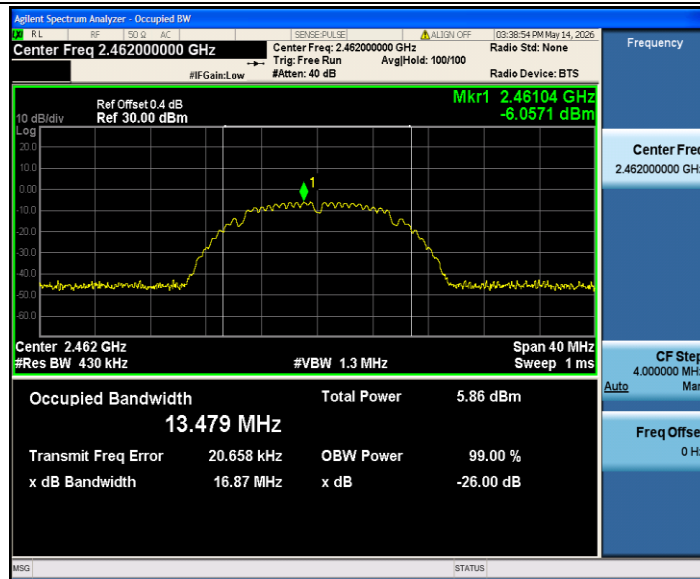
11B_Ant1_2412



11B_Ant1_2437



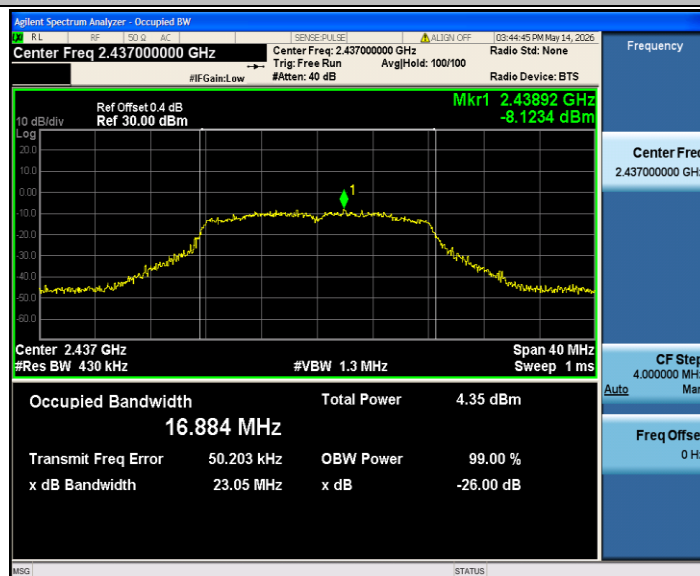
11B_Ant1_2462



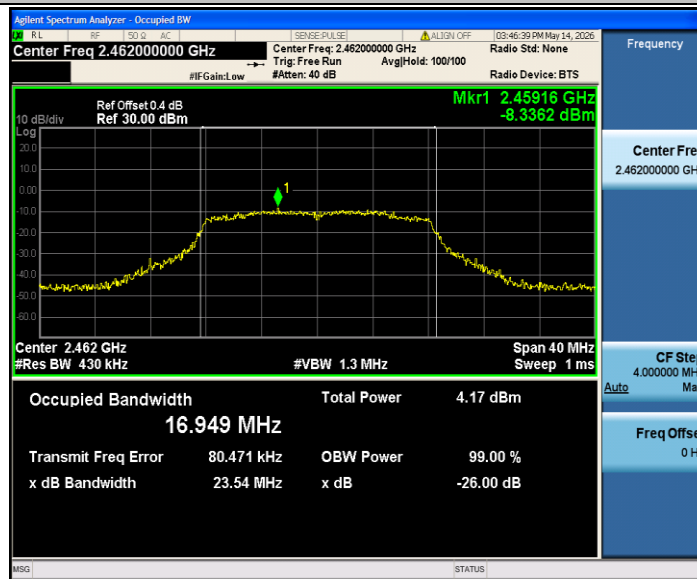
11G_Ant1_2412



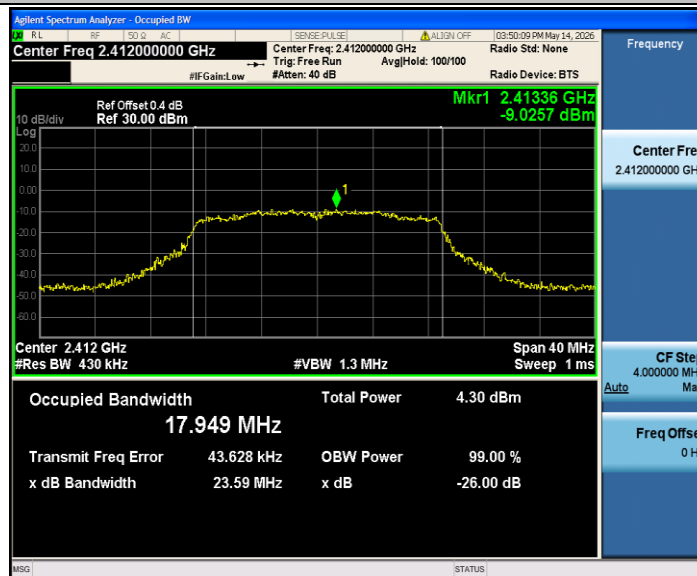
11G_Ant1_2437



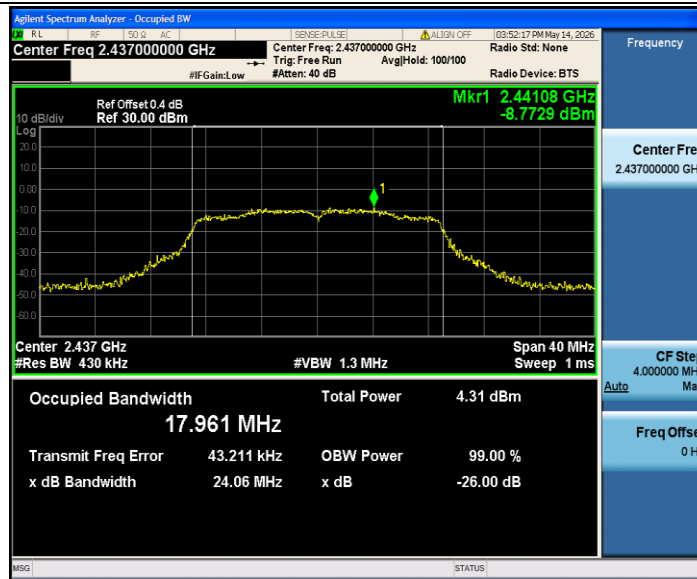
11G_Ant1_2462



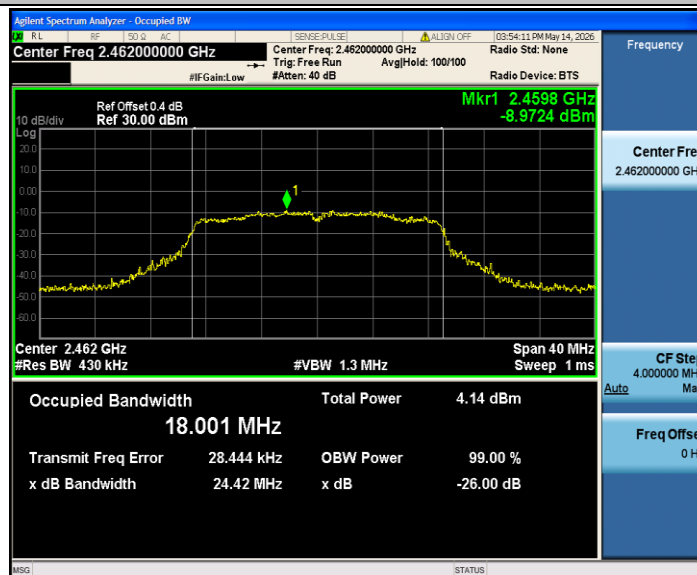
11N20SISO_Ant1_2412



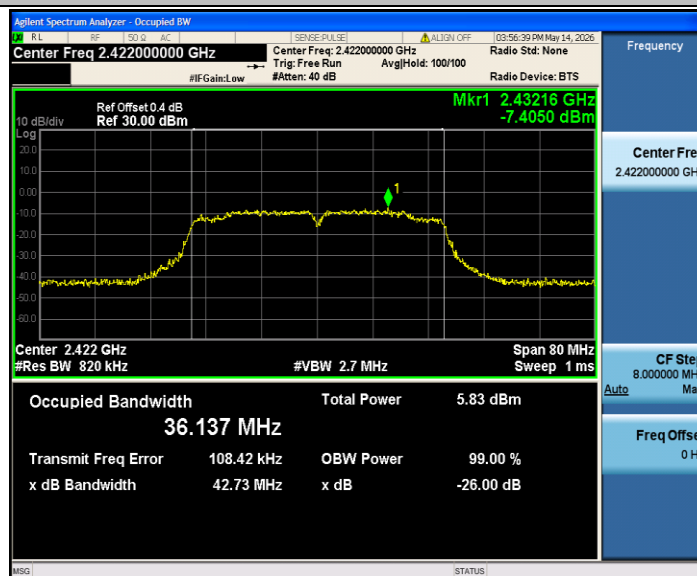
11N20SISO_Ant1_2437



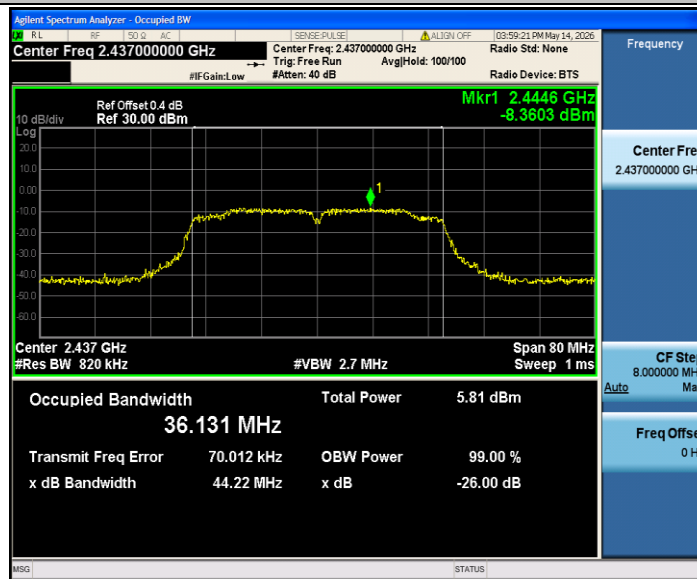
11N20SISO_Ant1_2462



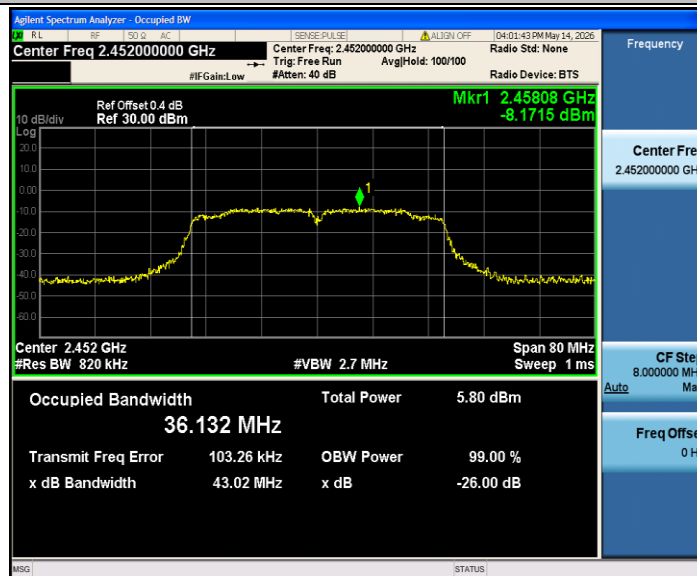
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	5.28	≤30.00	PASS
		2437	5.47	≤30.00	PASS
		2462	5.63	≤30.00	PASS
11G	Ant1	2412	5.35	≤30.00	PASS
		2437	5.35	≤30.00	PASS
		2462	5.06	≤30.00	PASS
11N20SISO	Ant1	2412	5.07	≤30.00	PASS
		2437	5.10	≤30.00	PASS
		2462	4.93	≤30.00	PASS
11N40SISO	Ant1	2422	5.94	≤30.00	PASS
		2437	5.95	≤30.00	PASS
		2452	5.82	≤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	-20.89	≤8.00	PASS
		2437	-20.71	≤8.00	PASS
		2462	-20.33	≤8.00	PASS
11G	Ant1	2412	-26.98	≤8.00	PASS
		2437	-27.33	≤8.00	PASS
		2462	-27.02	≤8.00	PASS
11N20SISO	Ant1	2412	-26.77	≤8.00	PASS
		2437	-25.89	≤8.00	PASS
		2462	-26.80	≤8.00	PASS
11N40SISO	Ant1	2422	-27.59	≤8.00	PASS
		2437	-28.72	≤8.00	PASS
		2452	-28.98	≤8.00	PASS

Test Graphs

11B_Ant1_2412



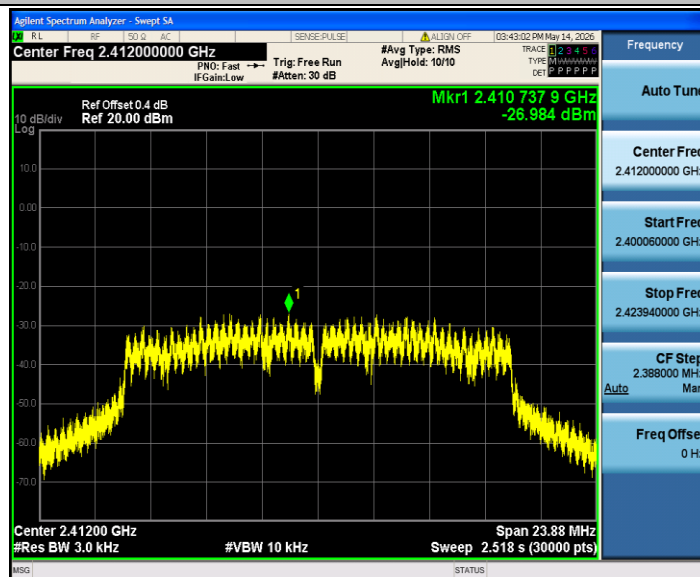
11B_Ant1_2437



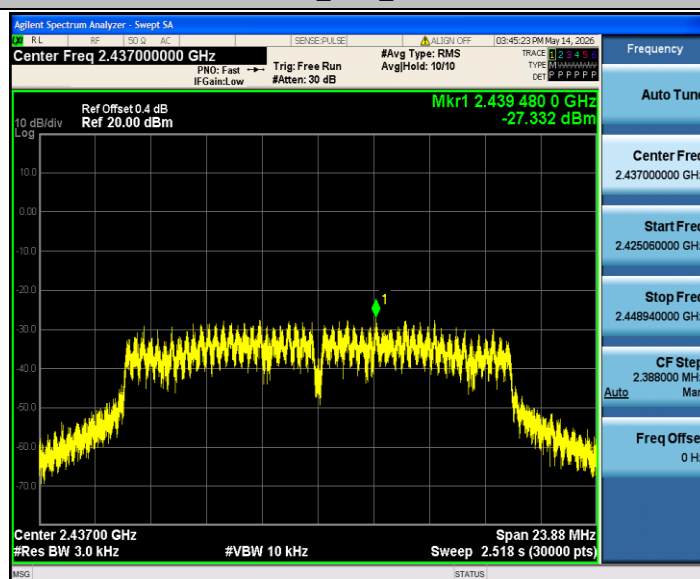
11B_Ant1_2462



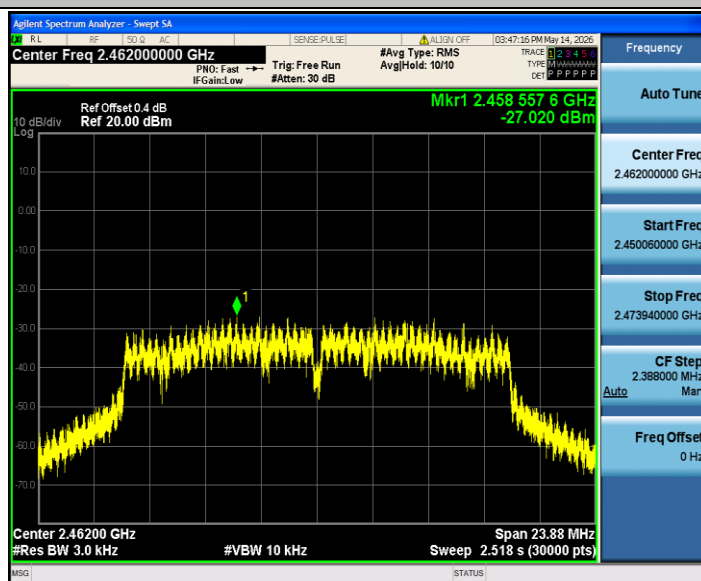
11G_Ant1_2412



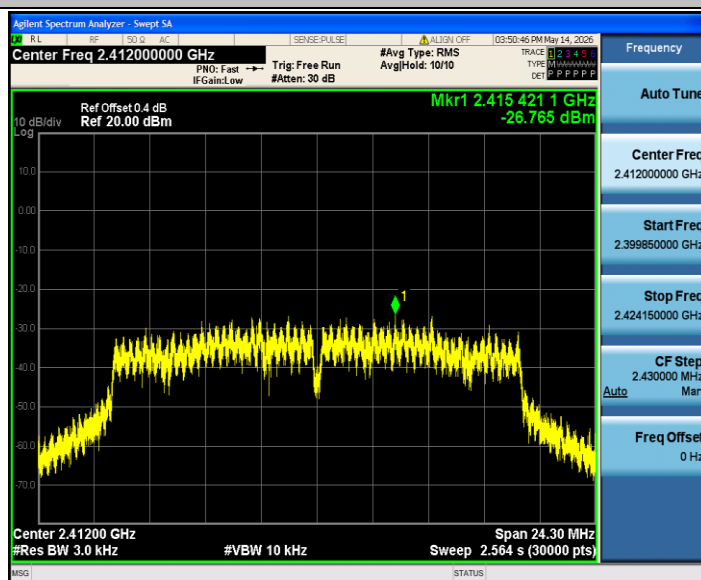
11G_Ant1_2437



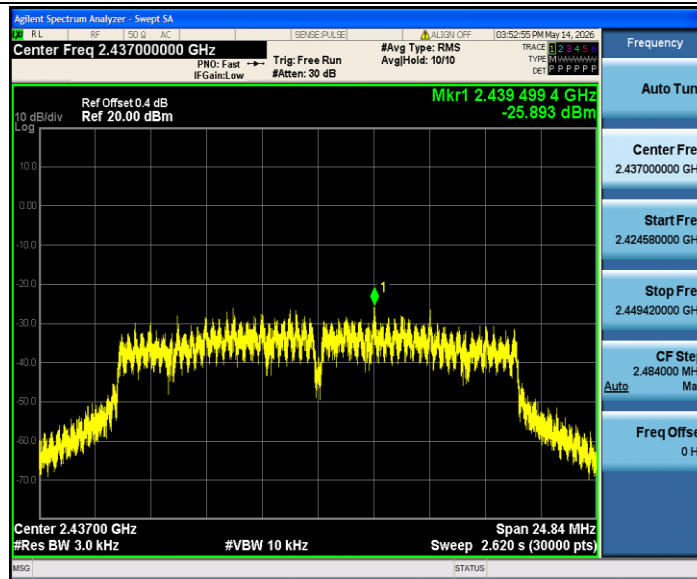
11G_Ant1_2462



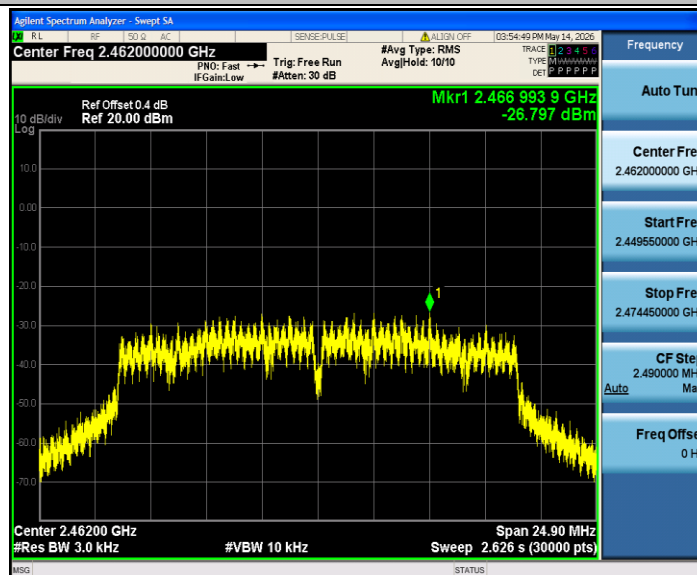
11N20SISO_Ant1_2412



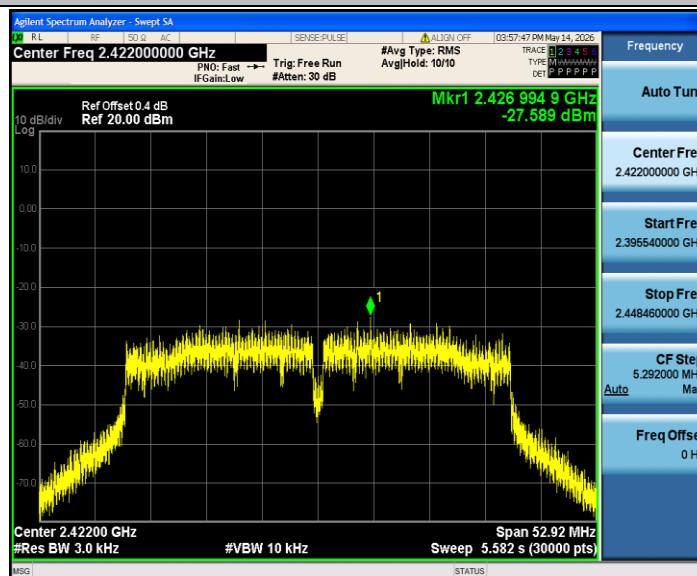
11N20SISO_Ant1_2437



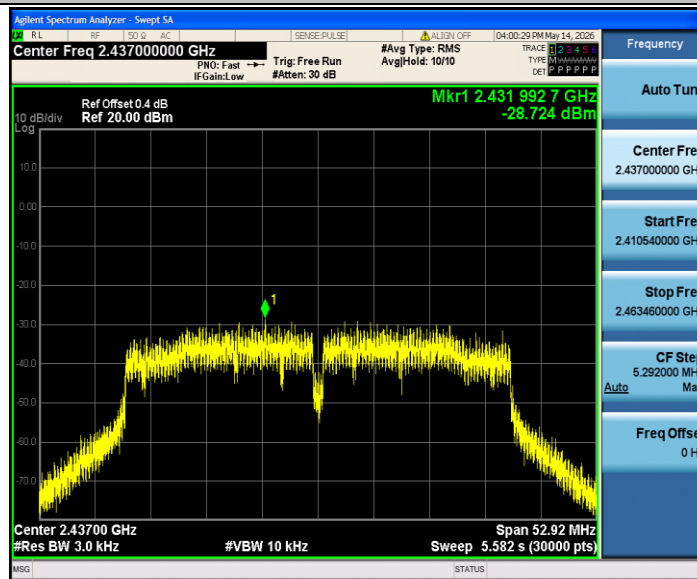
11N20SISO_Ant1_2462



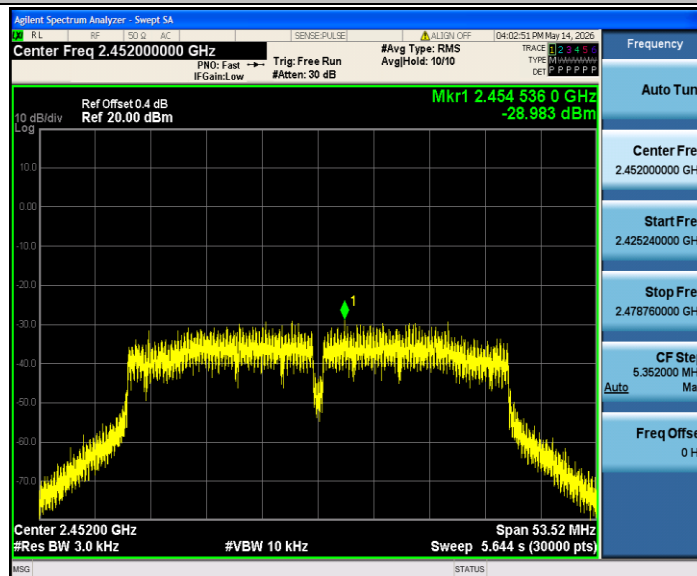
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



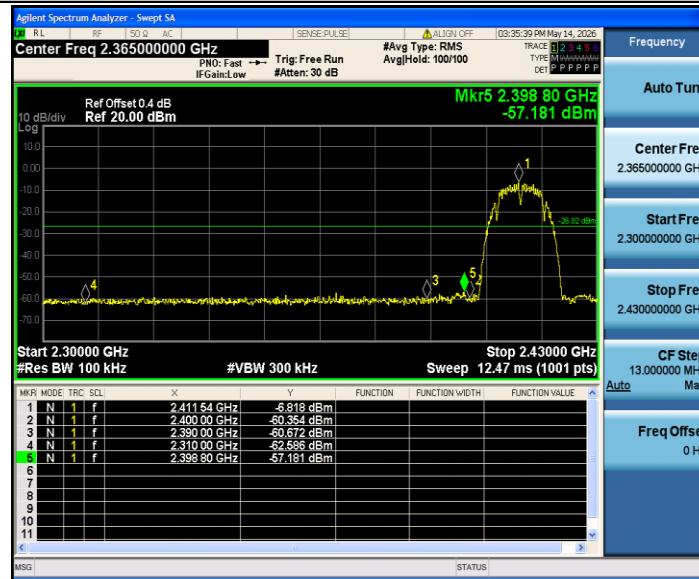
Appendix E: Band edge measurements

Test Result

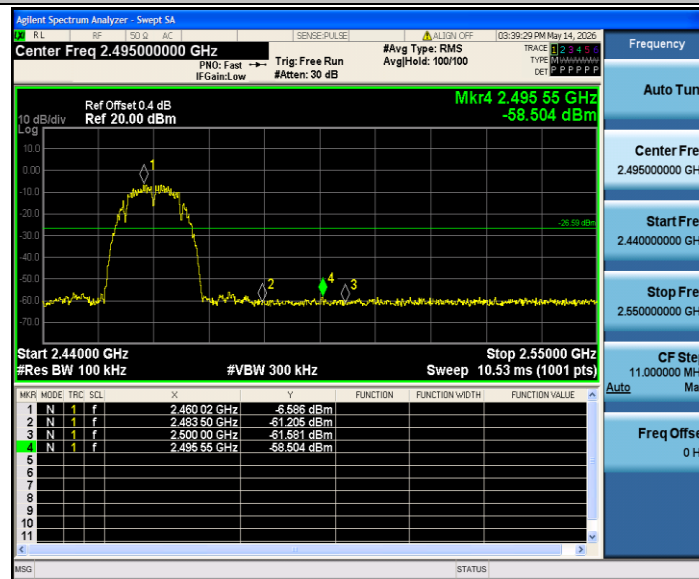
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-6.82	-57.18	≤-26.82	PASS
		High	2462	-6.59	-58.5	≤-26.59	PASS
11G	Ant1	Low	2412	-11.27	-40.5	≤-31.27	PASS
		High	2462	-11.38	-57.43	≤-31.38	PASS
11N20SISO	Ant1	Low	2412	-11.24	-41.93	≤-31.24	PASS
		High	2462	-11.75	-57.86	≤-31.75	PASS
11N40SISO	Ant1	Low	2422	-14.12	-41.53	≤-34.12	PASS
		High	2452	-14.13	-57.36	≤-34.13	PASS

Test Graphs

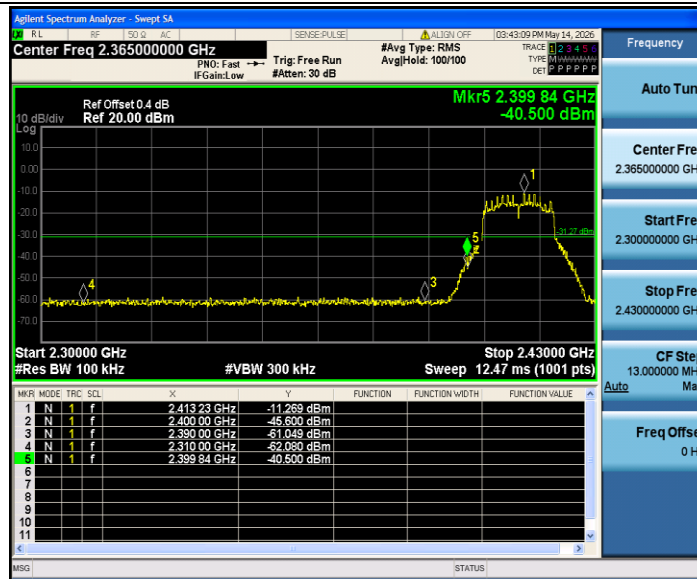
11B_Ant1_Low_2412



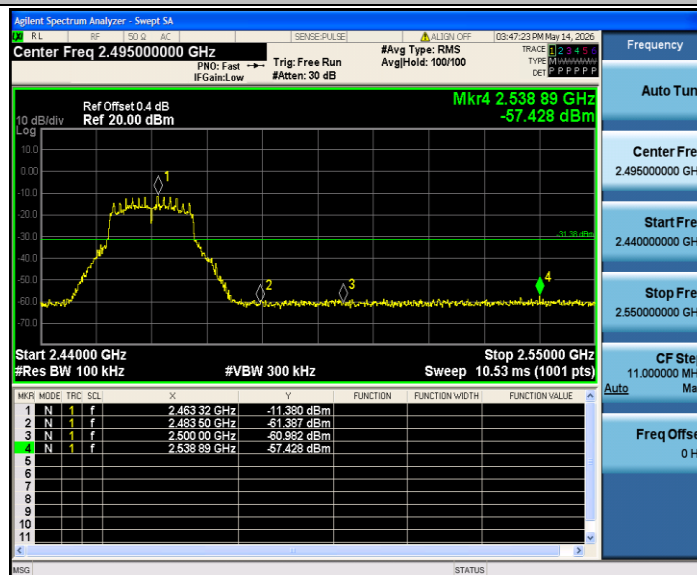
11B_Ant1_High_2462



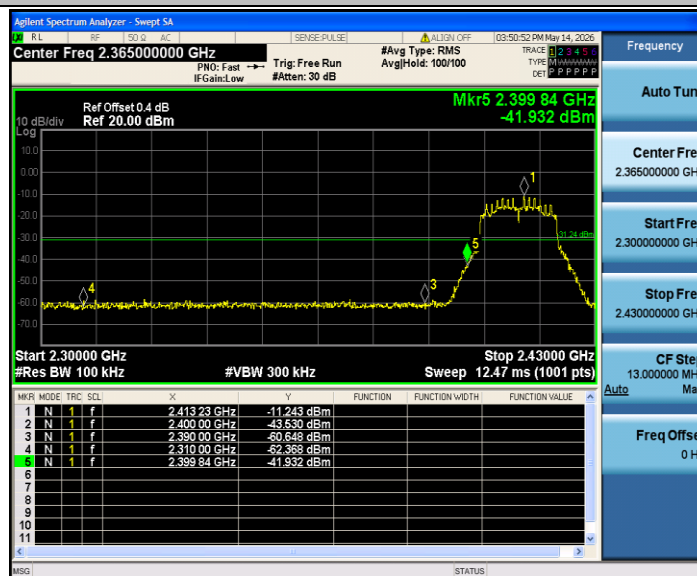
11G_Ant1_Low_2412



11G_Ant1_High_2462



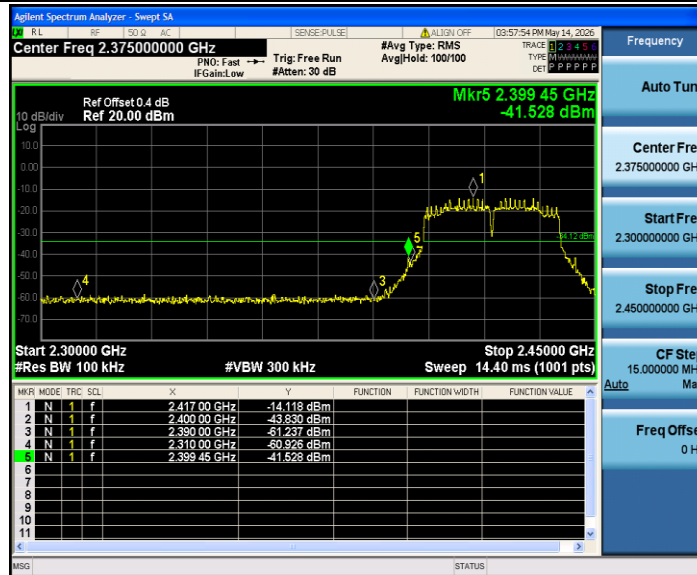
11N20SISO_Ant1_Low_2412



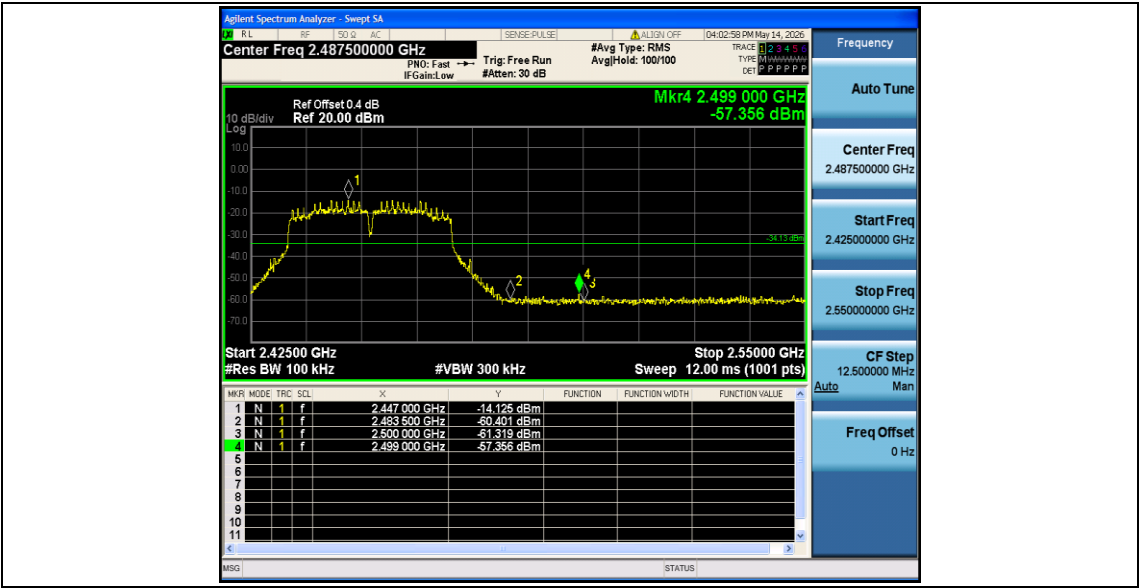
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

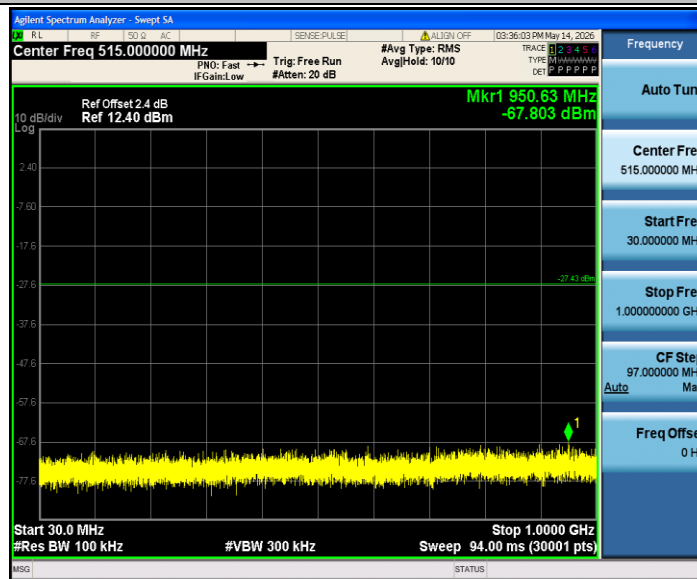
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-7.43	-7.43	---	PASS
			30~1000	-7.43	-67.8	≤-27.43	PASS
			1000~26500	-7.43	-54.48	≤-27.43	PASS
		2437	Reference	-7.86	-7.86	---	PASS
			30~1000	-7.86	-67.56	≤-27.86	PASS
			1000~26500	-7.86	-56.13	≤-27.86	PASS
		2462	Reference	-8.59	-8.59	---	PASS
			30~1000	-8.59	-67.76	≤-28.59	PASS
			1000~26500	-8.59	-55.68	≤-28.59	PASS
11G	Ant1	2412	Reference	-11.91	-11.91	---	PASS
			30~1000	-11.91	-67.89	≤-31.91	PASS
			1000~26500	-11.91	-55.55	≤-31.91	PASS
		2437	Reference	-12.58	-12.58	---	PASS
			30~1000	-12.58	-68.25	≤-32.58	PASS
			1000~26500	-12.58	-55.69	≤-32.58	PASS
		2462	Reference	-12.16	-12.16	---	PASS
			30~1000	-12.16	-61.08	≤-32.16	PASS
			1000~26500	-12.16	-55.46	≤-32.16	PASS
11N20SISO	Ant1	2412	Reference	-11.56	-11.56	---	PASS
			30~1000	-11.56	-67.96	≤-31.56	PASS
			1000~26500	-11.56	-54.74	≤-31.56	PASS
		2437	Reference	-11.55	-11.55	---	PASS
			30~1000	-11.55	-68.35	≤-31.55	PASS
			1000~26500	-11.55	-56.19	≤-31.55	PASS
		2462	Reference	-13.16	-13.16	---	PASS
			30~1000	-13.16	-67.89	≤-33.16	PASS
			1000~26500	-13.16	-55.88	≤-33.16	PASS
11N40SISO	Ant1	2422	Reference	-14.57	-14.57	---	PASS
			30~1000	-14.57	-68.22	≤-34.57	PASS
			1000~26500	-14.57	-55.62	≤-34.57	PASS
		2437	Reference	-14.69	-14.69	---	PASS
			30~1000	-14.69	-68.14	≤-34.69	PASS
			1000~26500	-14.69	-55.75	≤-34.69	PASS
		2452	Reference	-14.41	-14.41	---	PASS
			30~1000	-14.41	-68.33	≤-34.41	PASS
			1000~26500	-14.41	-55.37	≤-34.41	PASS

Test Graphs

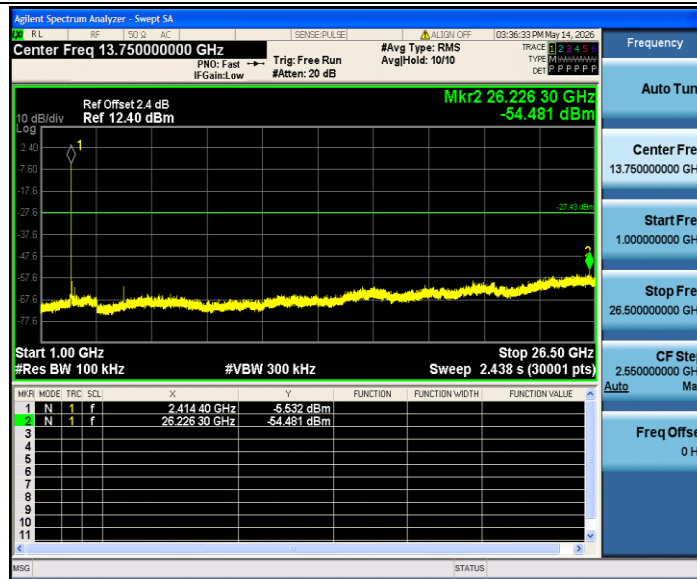
11B_Ant1_2412_0~Reference



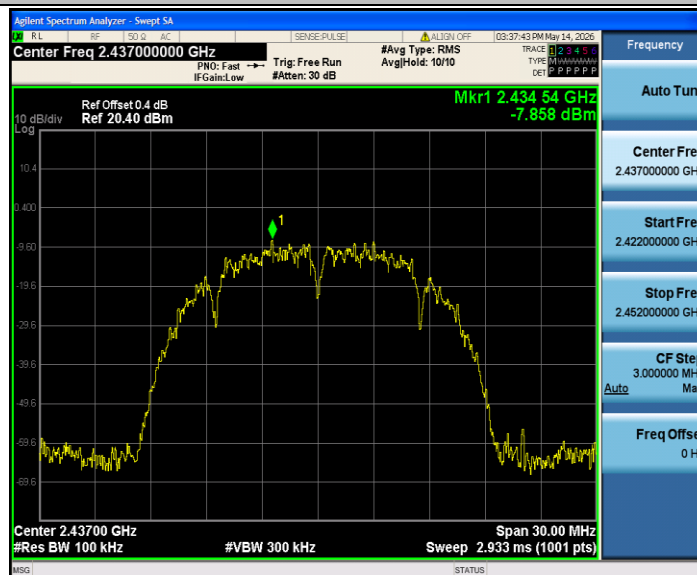
11B_Ant1_2412_30~1000



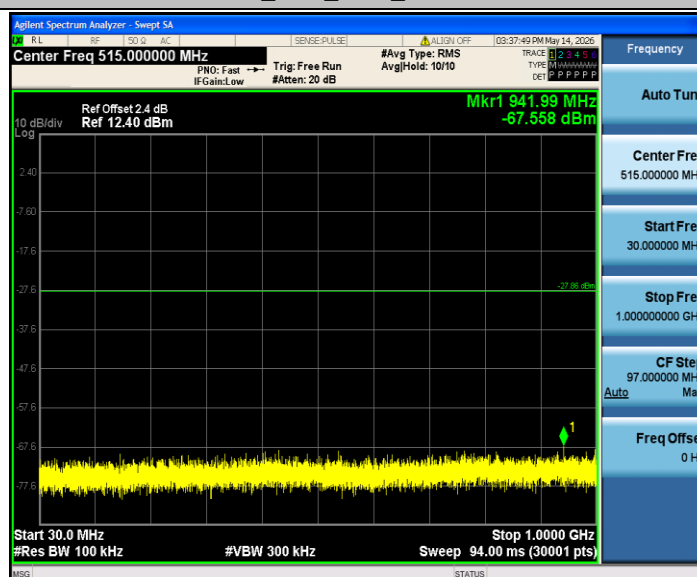
11B_Ant1_2412_1000~26500



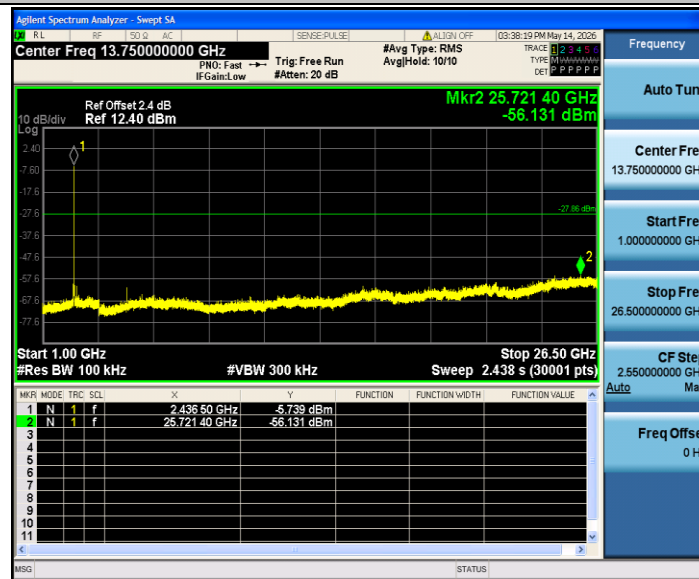
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



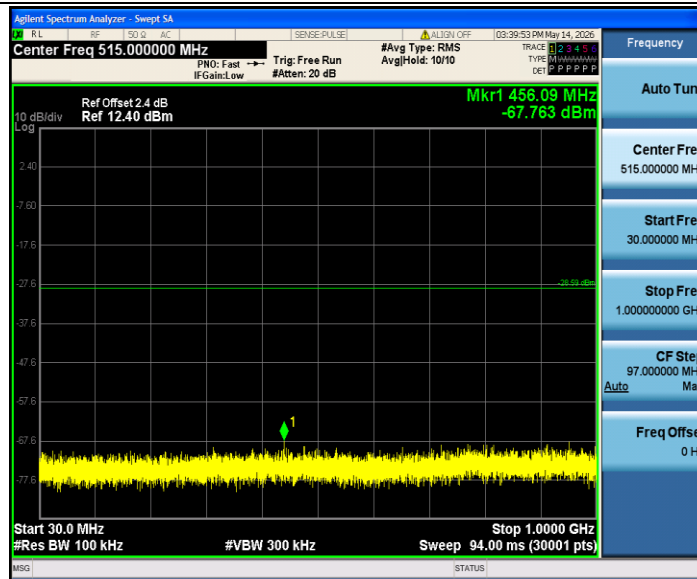
11B_Ant1_2437_1000~26500



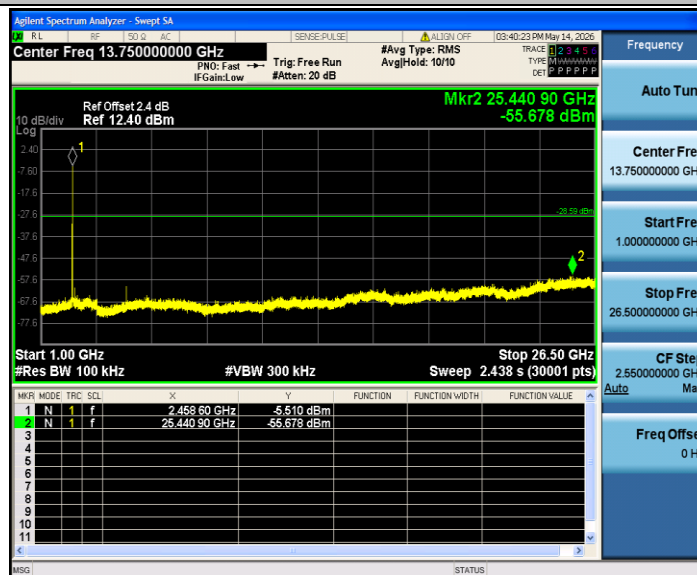
11B_Ant1_2462_0~Reference



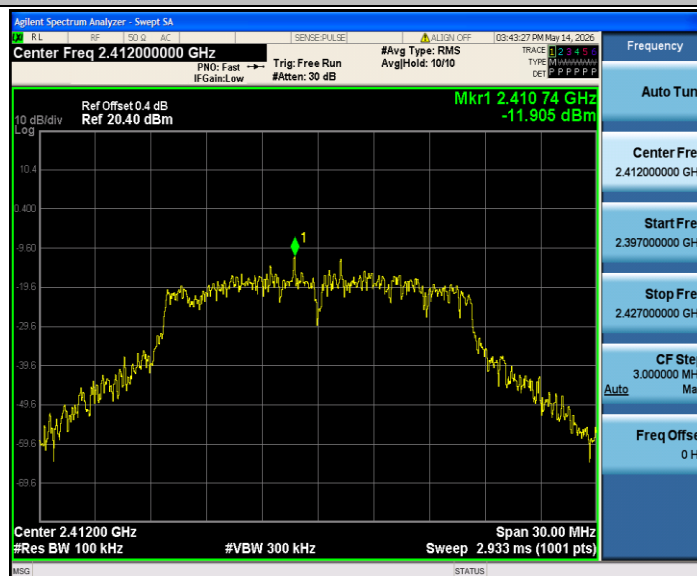
11B_Ant1_2462_30~1000



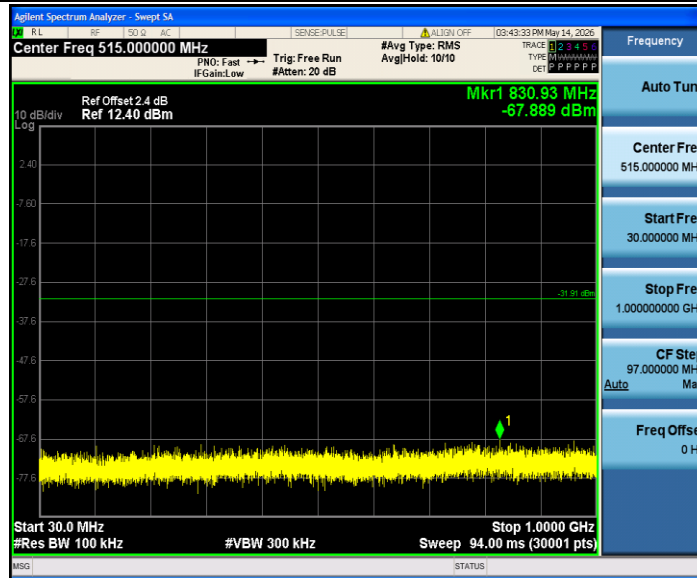
11B_Ant1_2462_1000~26500



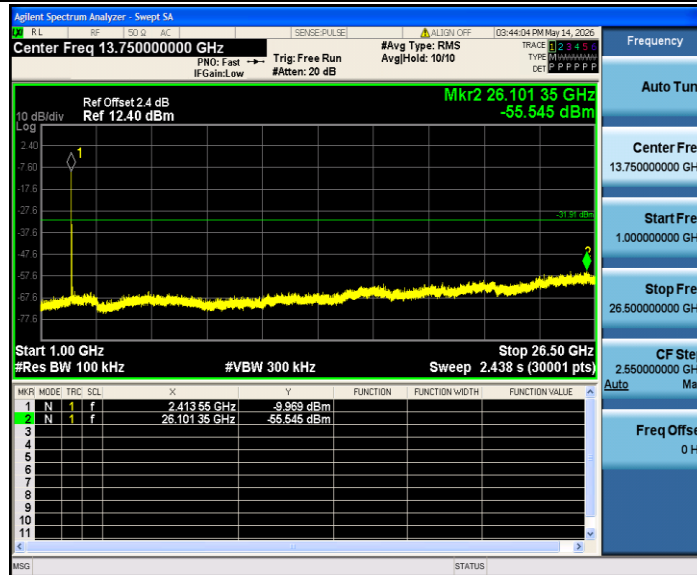
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



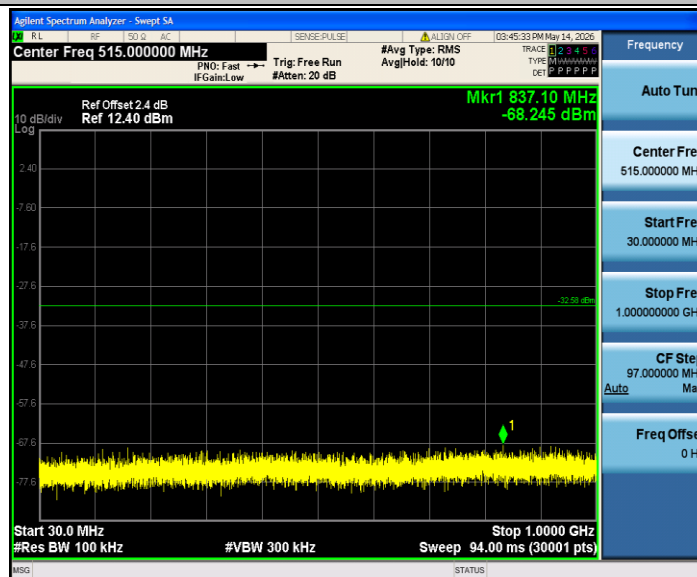
11G_Ant1_2412_1000~26500



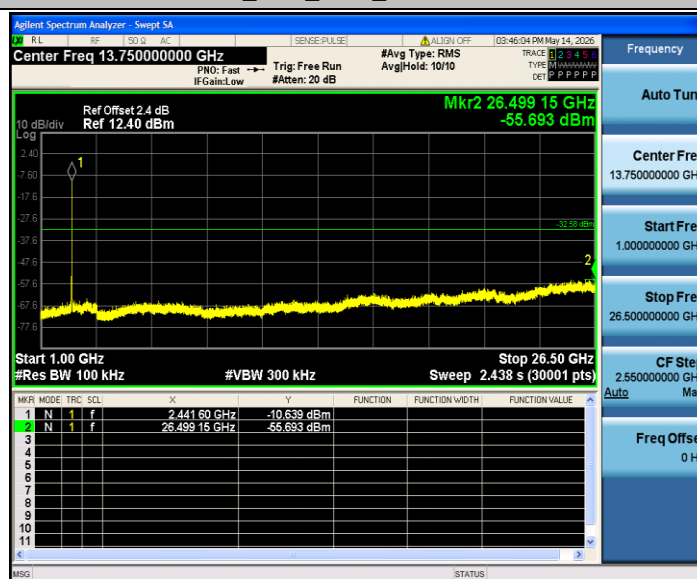
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



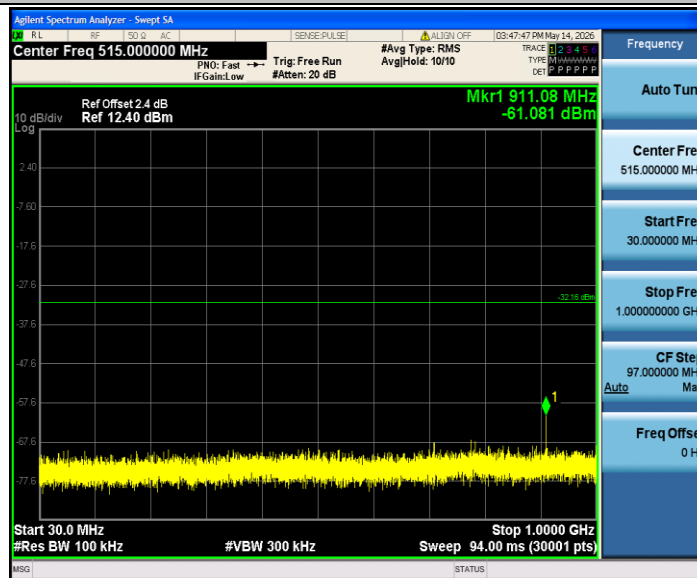
11G_Ant1_2437_1000~26500



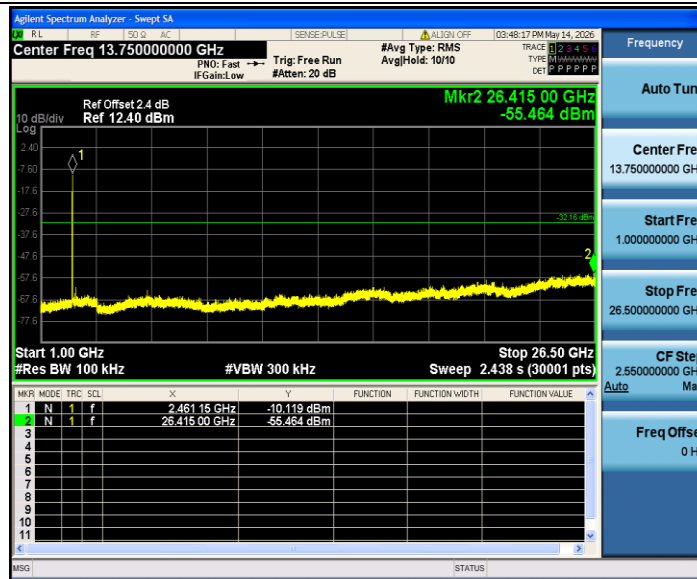
11G_Ant1_2462_0~Reference



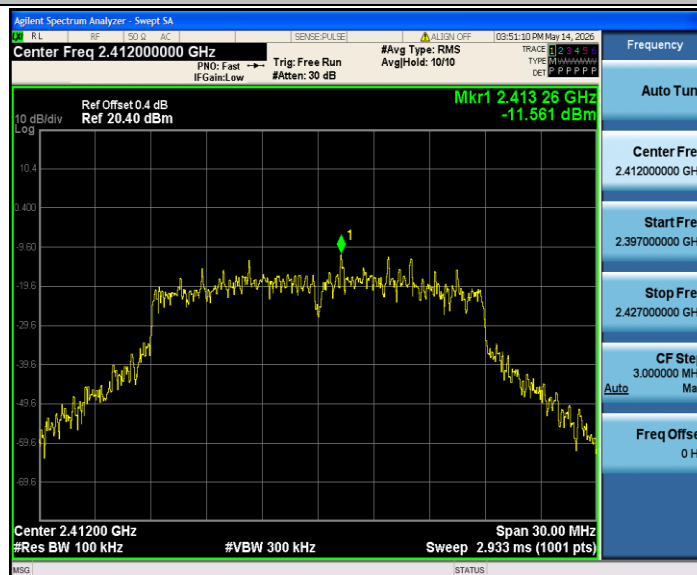
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

