

Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A3DK-DSPH

Company : Chengdu Tops Technology Co.,Ltd.

EUT : Pet smart feeder

Model Number : DSPH

Report No. : CTA25082100702

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	8.520	2408.000	2416.520	0.5	PASS
		2437	8.560	2432.960	2441.520	0.5	PASS
		2462	9.000	2457.520	2466.520	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	16.080	2428.840	2444.920	0.5	PASS
		2462	16.280	2453.880	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.320	2404.080	2420.400	0.5	PASS
		2437	16.600	2428.480	2445.080	0.5	PASS
		2462	16.800	2453.680	2470.480	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.520	2434.080	2469.600	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



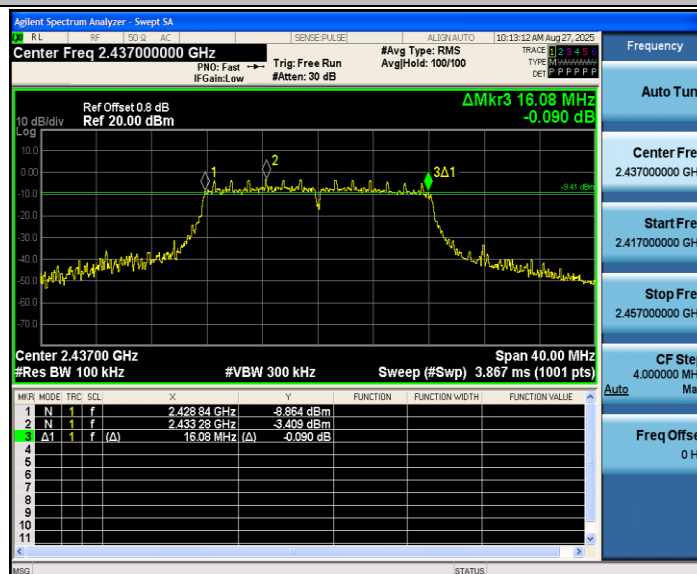
11B_Ant1_2462



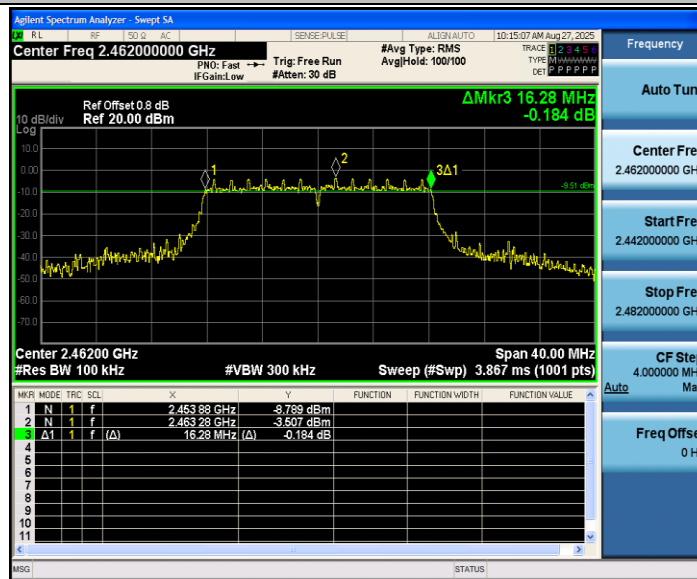
11G_Ant1_2412



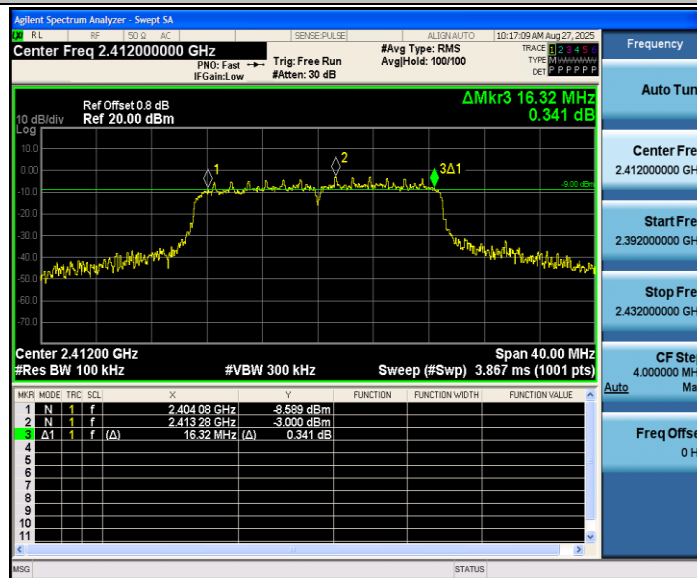
11G_Ant1_2437



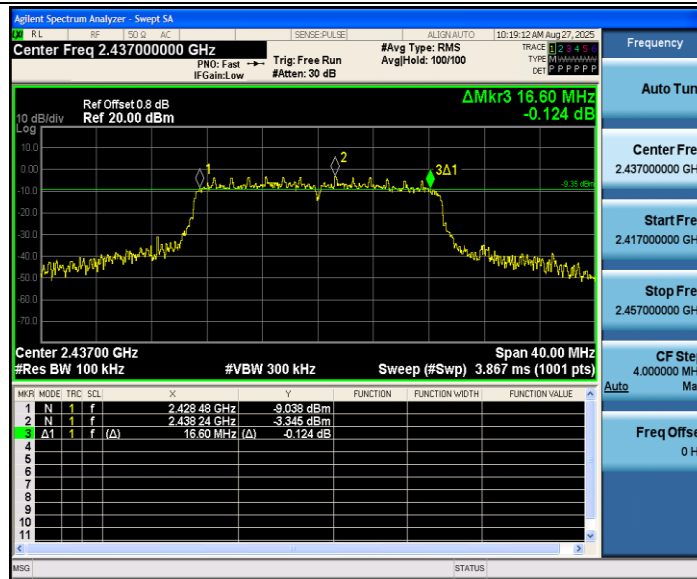
11G_Ant1_2462



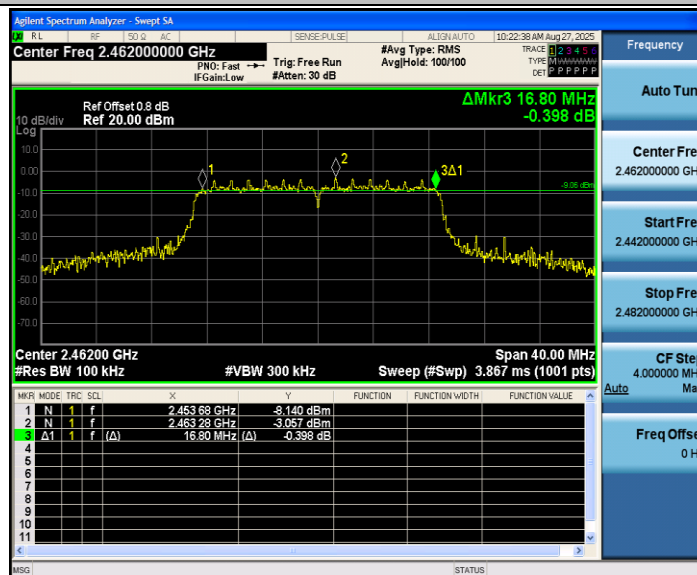
11N20SISO_Ant1_2412



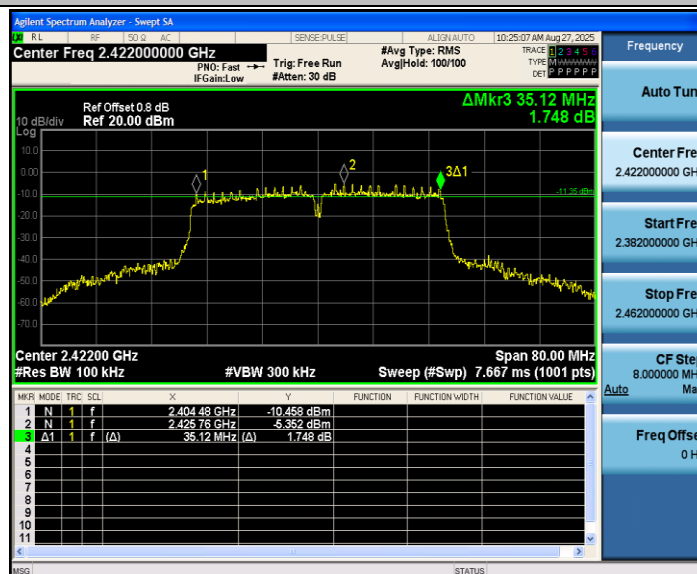
11N20SISO_Ant1_2437



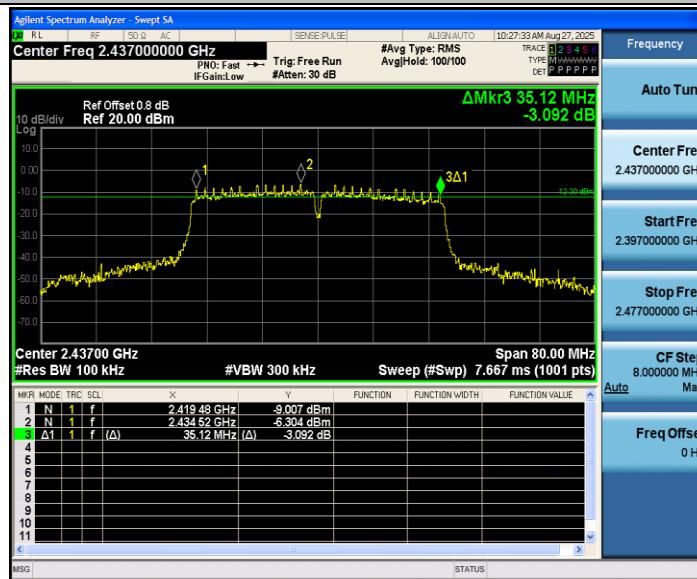
11N20SISO_Ant1_2462



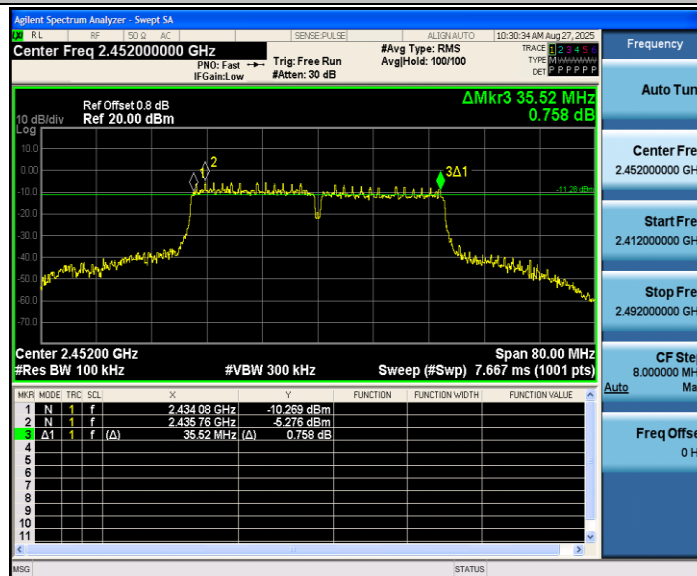
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



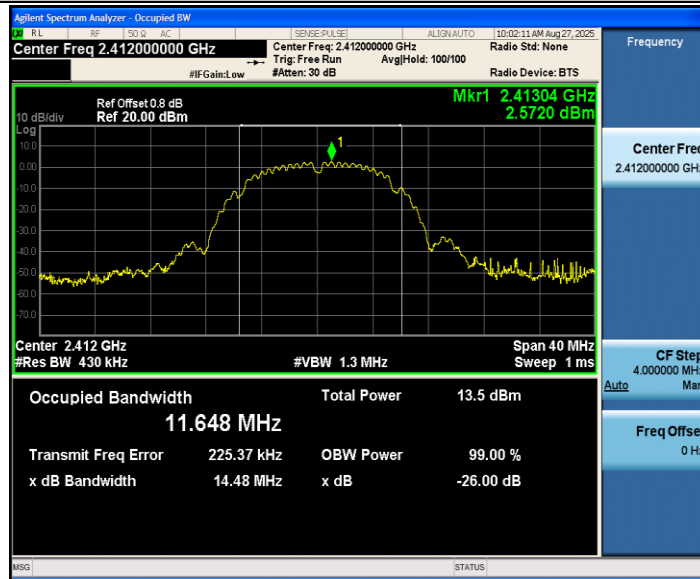
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.648	2406.4014	2418.0494	---	---
		2437	11.686	2431.1214	2442.8074	---	---
		2462	11.852	2456.1381	2467.9901	---	---
11G	Ant1	2412	16.667	2403.8101	2420.4771	---	---
		2437	16.669	2428.6521	2445.3211	---	---
		2462	16.742	2453.6756	2470.4176	---	---
11N20SISO	Ant1	2412	17.669	2403.3066	2420.9756	---	---
		2437	17.590	2428.1864	2445.7764	---	---
		2462	17.718	2453.1892	2470.9072	---	---
11N40SISO	Ant1	2422	36.064	2404.1835	2440.2475	---	---
		2437	36.062	2419.0089	2455.0709	---	---
		2452	36.399	2433.7485	2470.1475	---	---

Test Graphs

11B_Ant1_2412



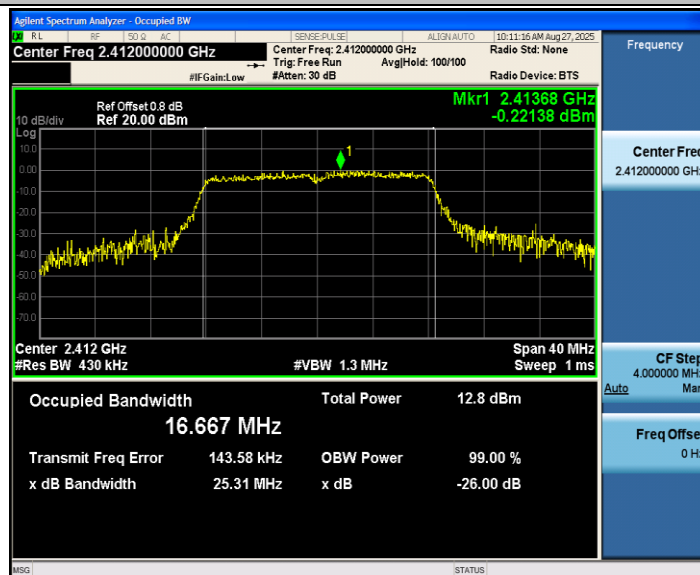
11B_Ant1_2437



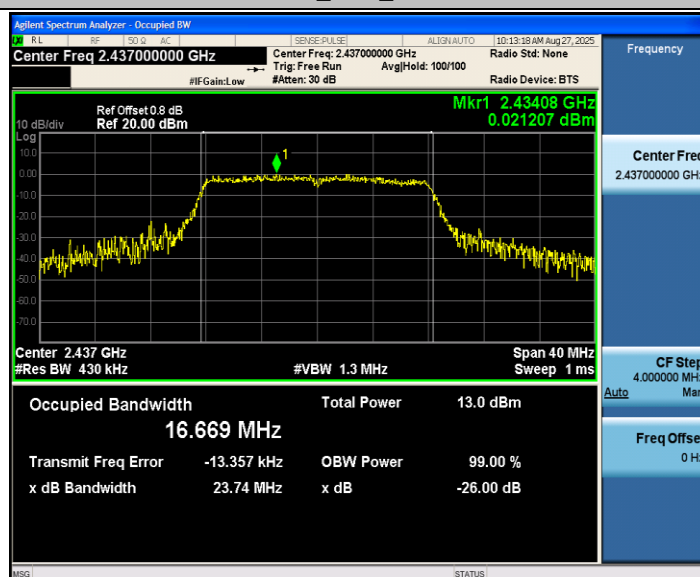
11B_Ant1_2462



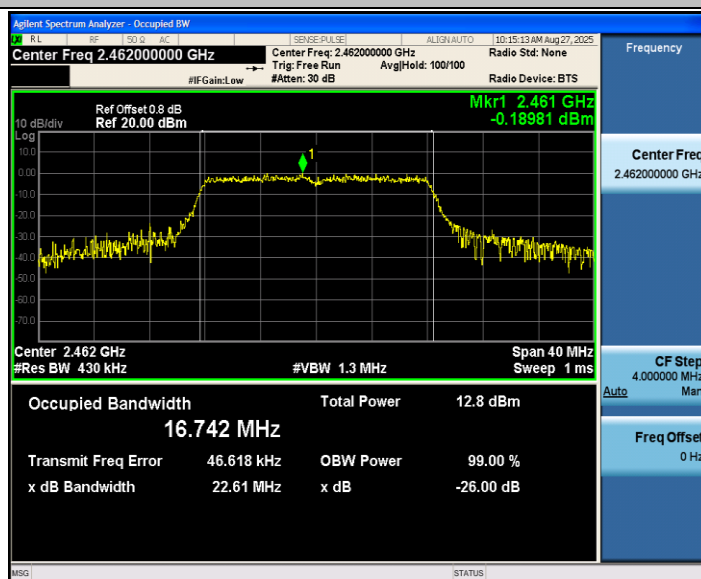
11G_Ant1_2412



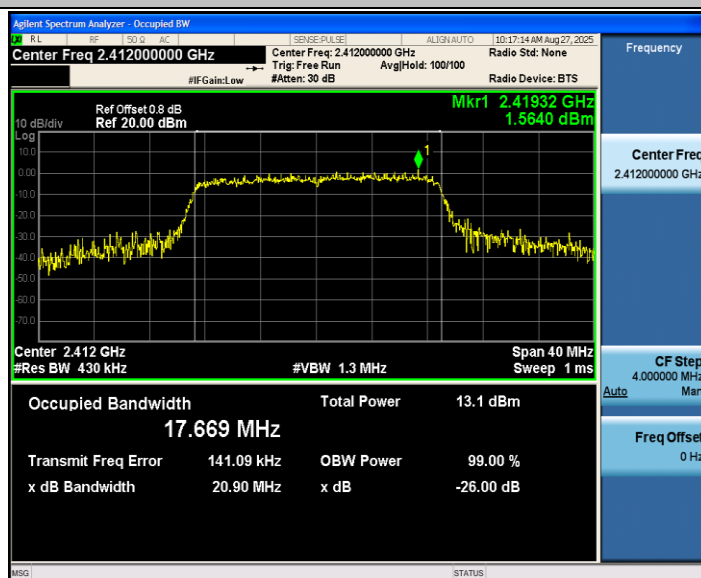
11G_Ant1_2437



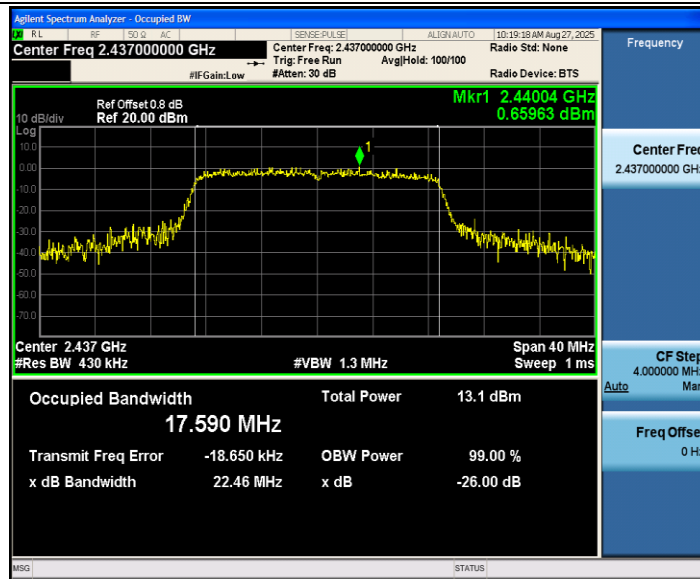
11G_Ant1_2462



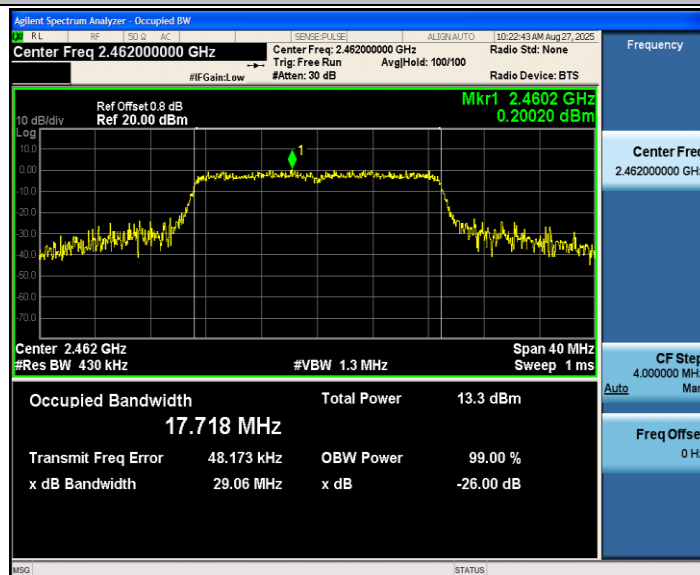
11N20SISO_Ant1_2412



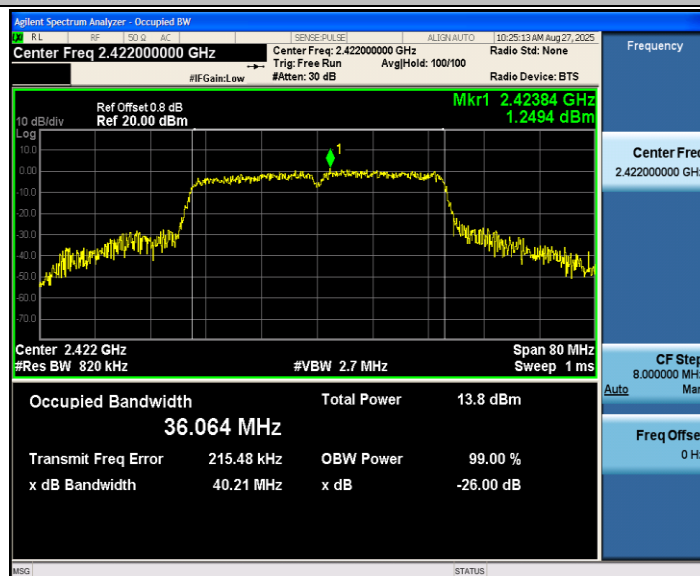
11N20SISO_Ant1_2437



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	13.29	≤30.00	PASS
		2437	13.21	≤30.00	PASS
		2462	13.14	≤30.00	PASS
11G	Ant1	2412	13.41	≤30.00	PASS
		2437	13.65	≤30.00	PASS
		2462	13.57	≤30.00	PASS
11N20SISO	Ant1	2412	13.65	≤30.00	PASS
		2437	13.80	≤30.00	PASS
		2462	13.94	≤30.00	PASS
11N40SISO	Ant1	2422	14.00	≤30.00	PASS
		2437	12.84	≤30.00	PASS
		2452	14.01	≤30.00	PASS

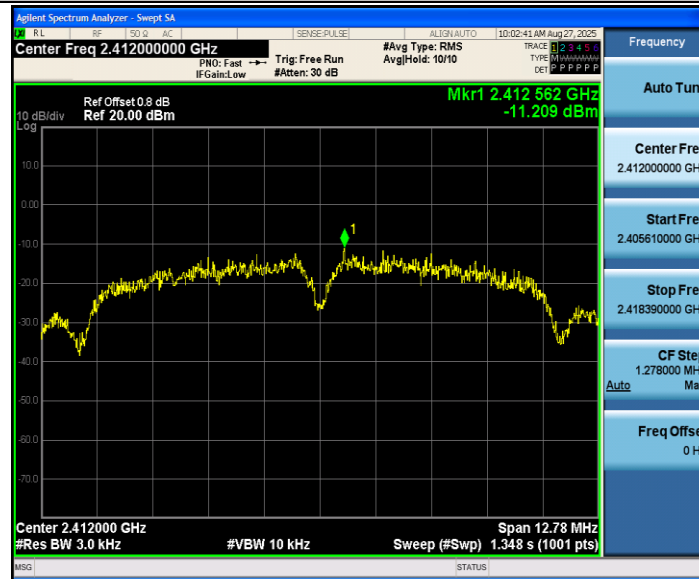
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.21	≤8.00	PASS
		2437	-10.91	≤8.00	PASS
		2462	-11.91	≤8.00	PASS
11G	Ant1	2412	-17.96	≤8.00	PASS
		2437	-17.66	≤8.00	PASS
		2462	-17.30	≤8.00	PASS
11N20SISO	Ant1	2412	-18.15	≤8.00	PASS
		2437	-17.29	≤8.00	PASS
		2462	-18.96	≤8.00	PASS
11N40SISO	Ant1	2422	-20.03	≤8.00	PASS
		2437	-21.40	≤8.00	PASS
		2452	-20.54	≤8.00	PASS

Test Graphs

11B_Ant1_2412



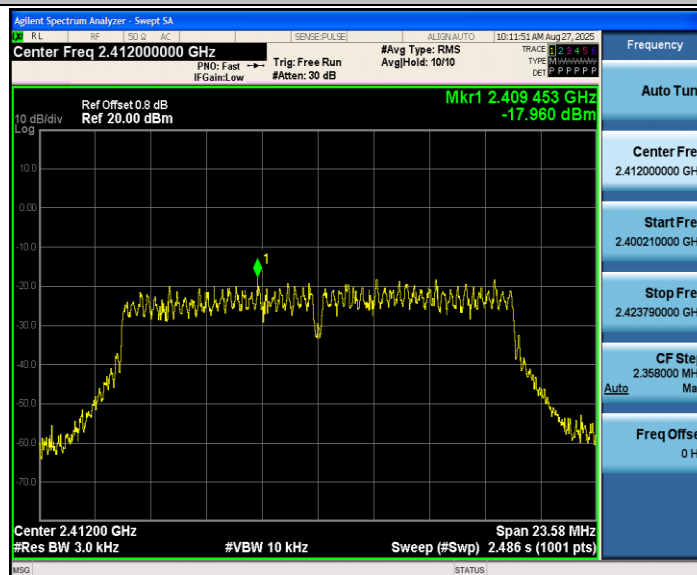
11B_Ant1_2437



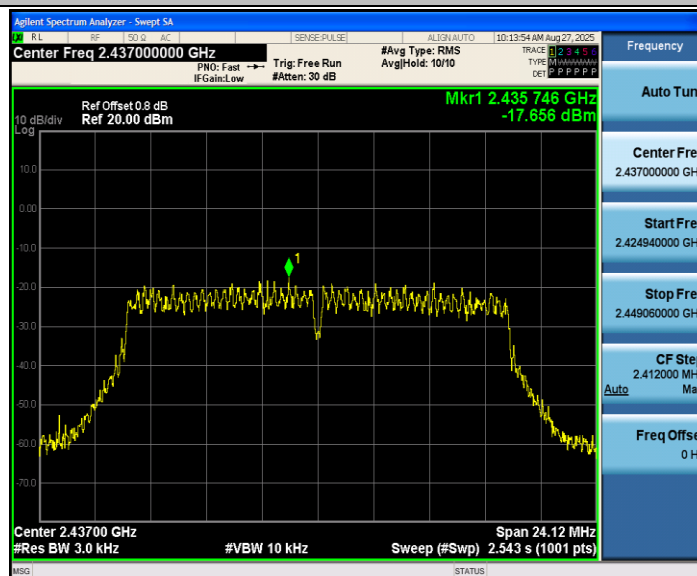
11B_Ant1_2462



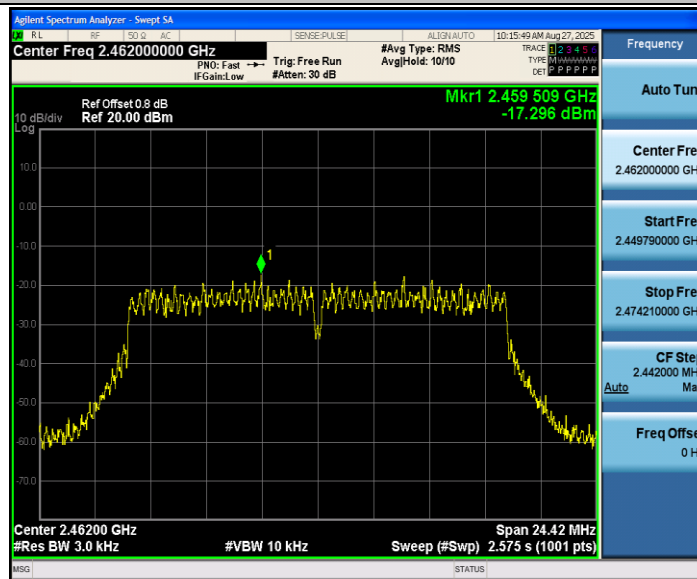
11G_Ant1_2412



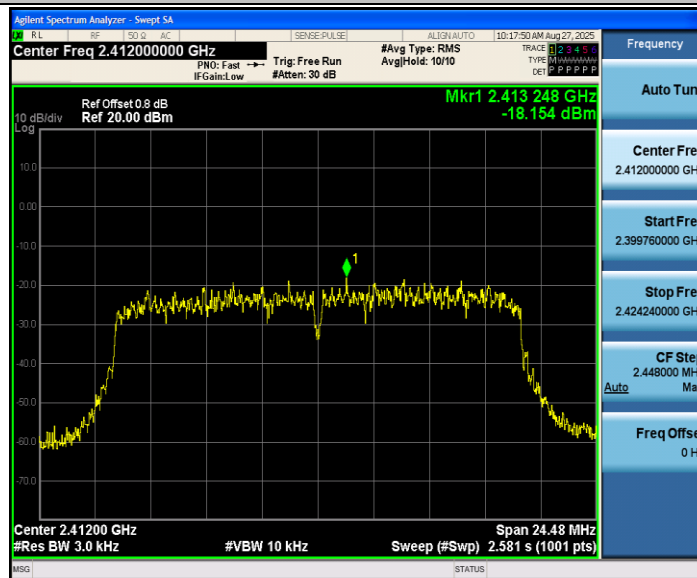
11G_Ant1_2437



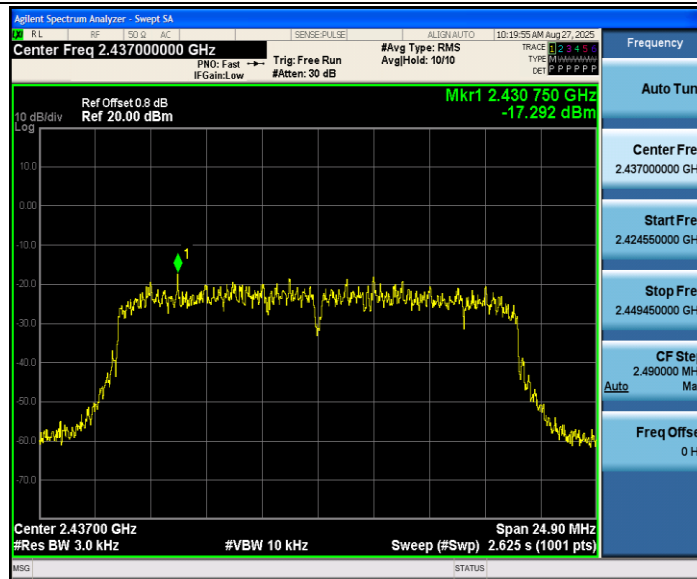
11G_Ant1_2462



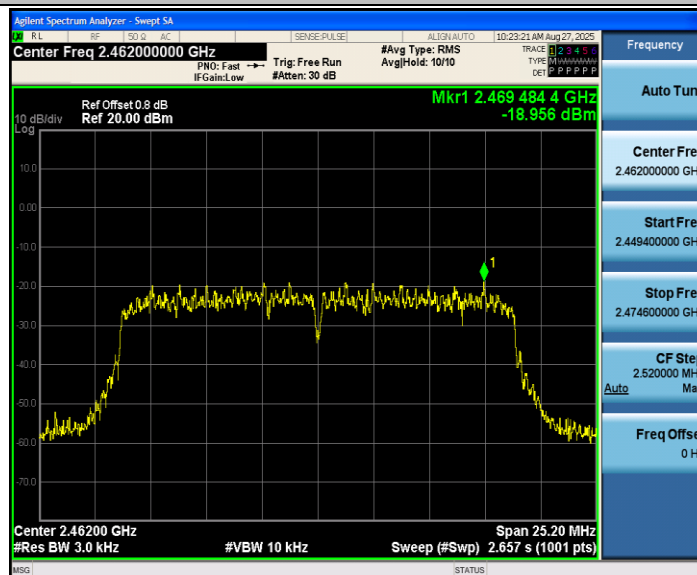
11N20SISO_Ant1_2412



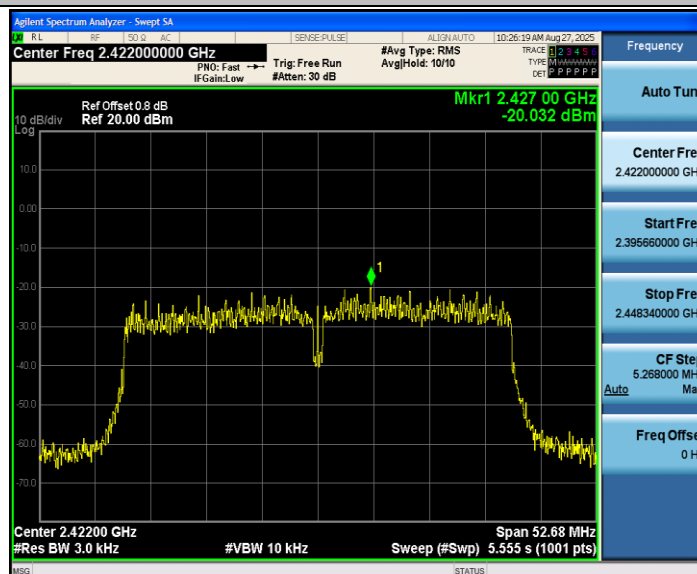
11N20SISO_Ant1_2437



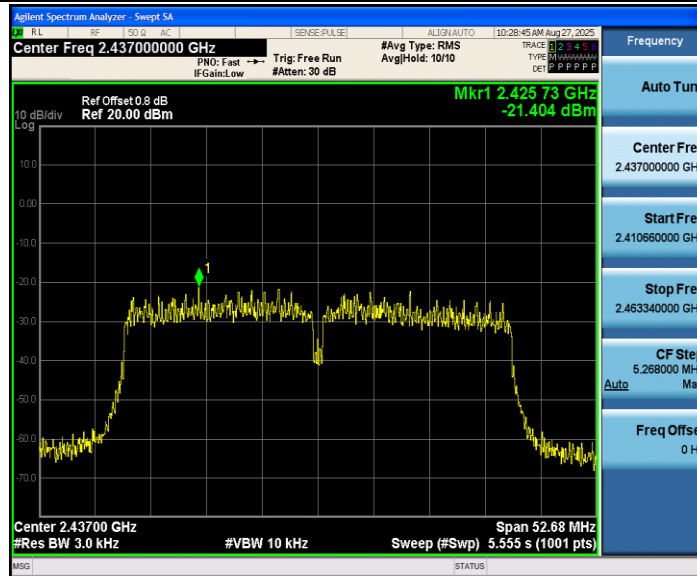
11N20SISO_Ant1_2462



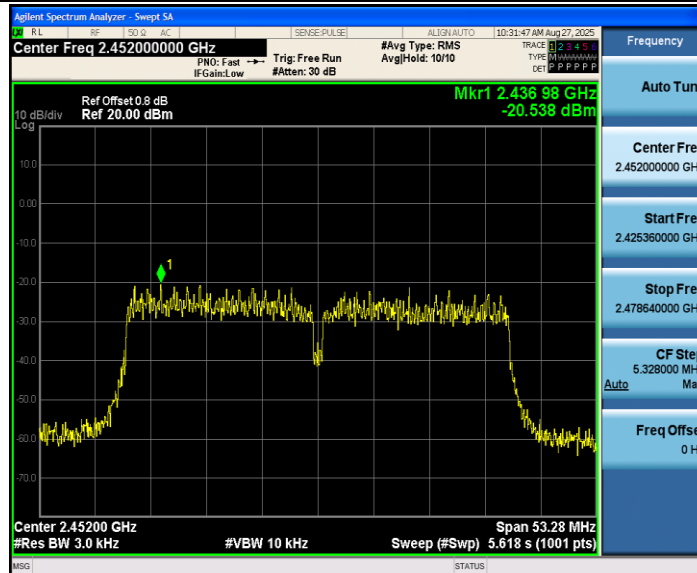
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



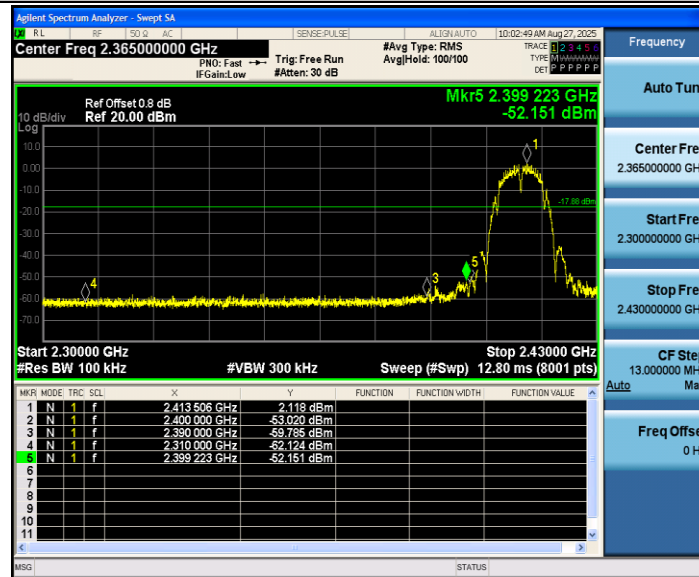
Appendix E: Band edge measurements

Test Result

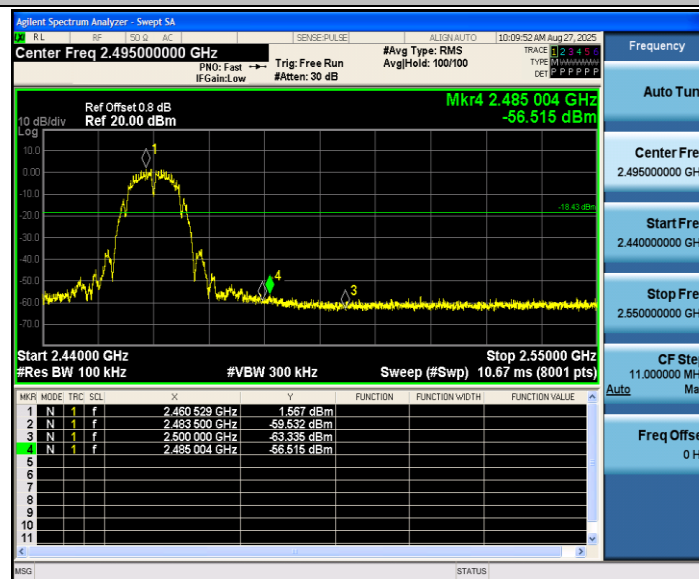
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.12	-52.15	≤-17.88	PASS
		High	2462	1.57	-56.52	≤-18.43	PASS
11G	Ant1	Low	2412	-3.01	-37.33	≤-23.01	PASS
		High	2462	-3.43	-46.33	≤-23.43	PASS
11N20SISO	Ant1	Low	2412	-3.09	-36.86	≤-23.09	PASS
		High	2462	-3.37	-46.58	≤-23.37	PASS
11N40SISO	Ant1	Low	2422	-5.40	-39.86	≤-25.4	PASS
		High	2452	-5.24	-44.73	≤-25.24	PASS

Test Graphs

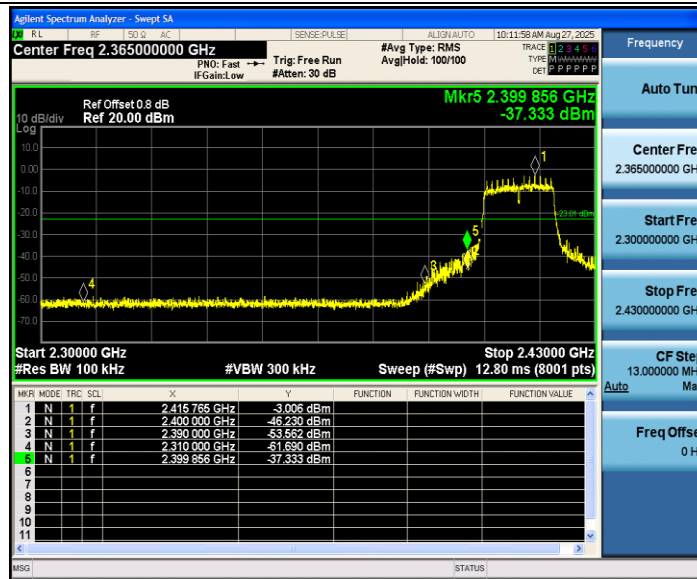
11B_Ant1_Low_2412



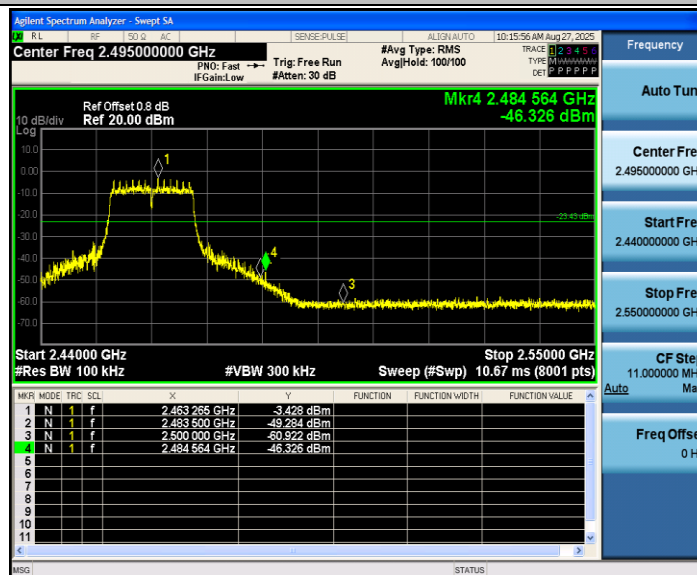
11B_Ant1_High_2462



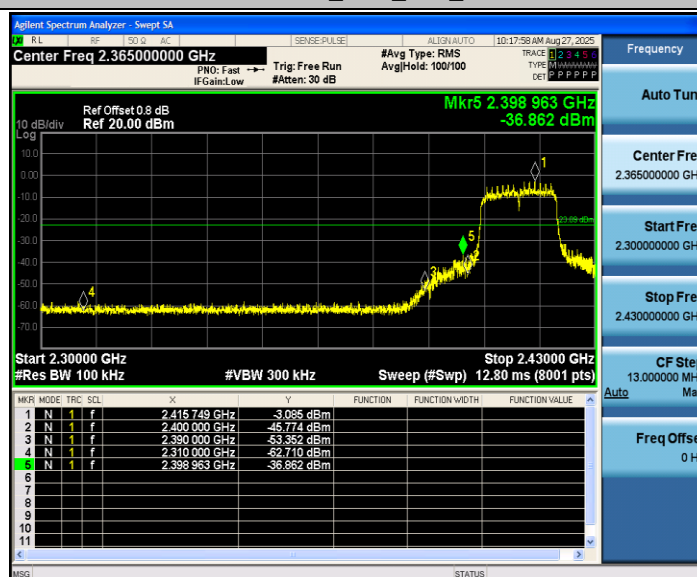
11G_Ant1_Low_2412



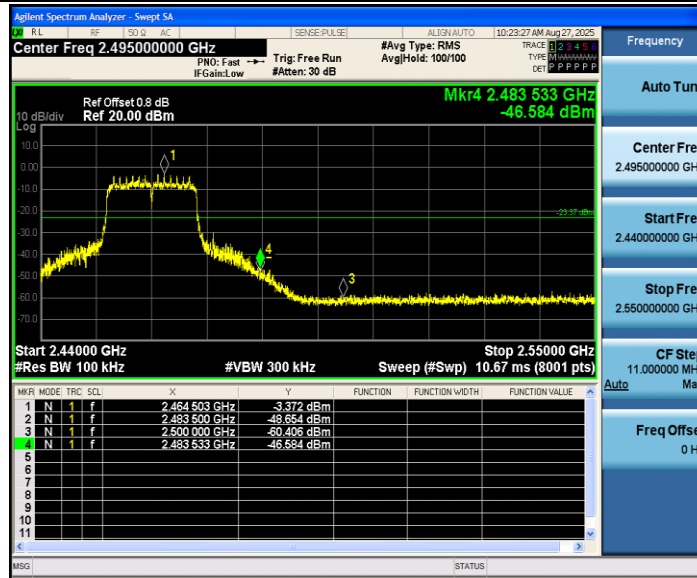
11G_Ant1_High_2462



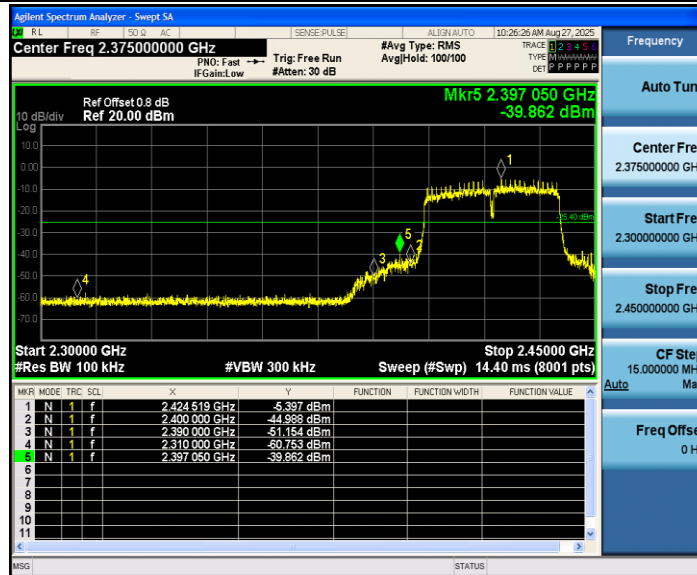
11N20SISO_Ant1_Low_2412



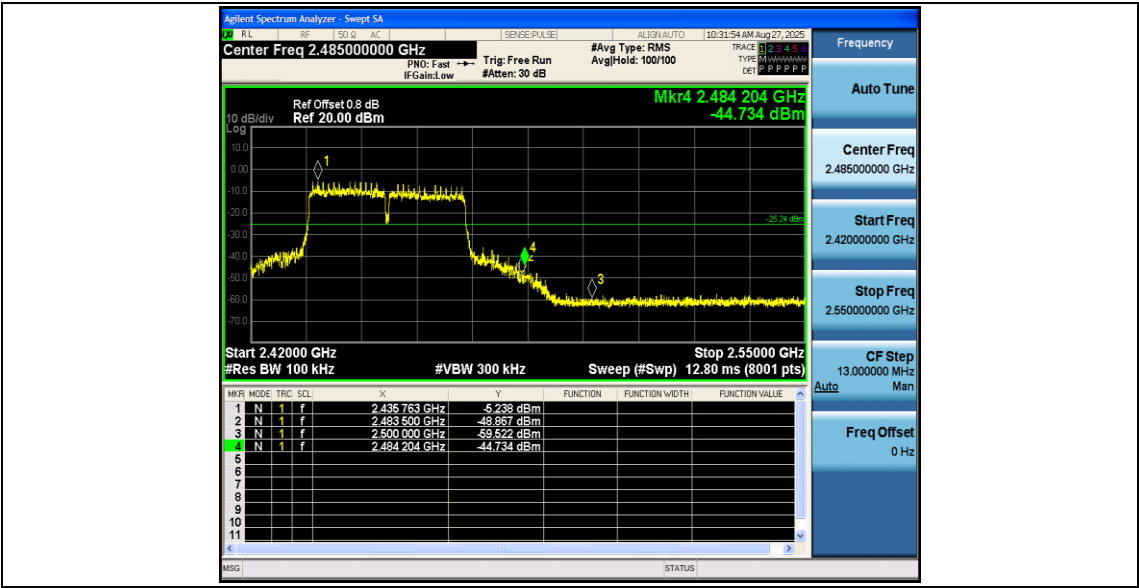
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

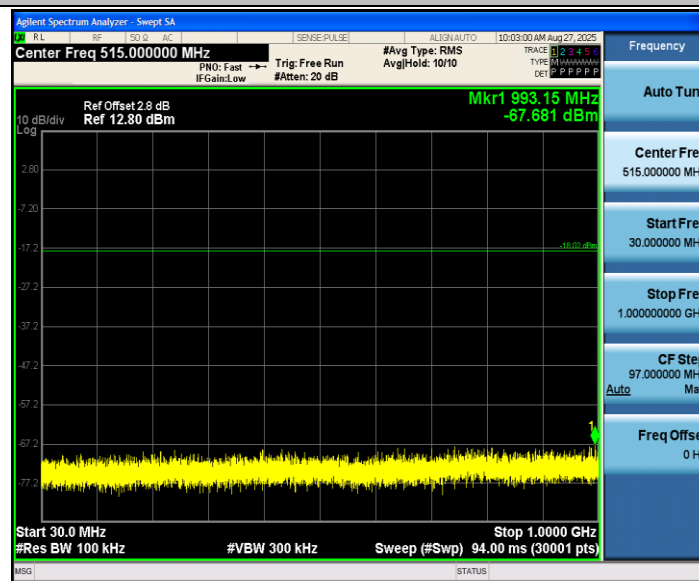
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.98	1.98	---	PASS
			30~1000	1.98	-67.68	≤-18.02	PASS
			1000~26500	1.98	-54.29	≤-18.02	PASS
		2437	Reference	0.85	0.85	---	PASS
			30~1000	0.85	-67.85	≤-19.15	PASS
			1000~26500	0.85	-54.76	≤-19.15	PASS
		2462	Reference	0.68	0.68	---	PASS
			30~1000	0.68	-67.34	≤-19.32	PASS
			1000~26500	0.68	-54.39	≤-19.32	PASS
11G	Ant1	2412	Reference	-3.44	-3.44	---	PASS
			30~1000	-3.44	-67.83	≤-23.44	PASS
			1000~26500	-3.44	-55.28	≤-23.44	PASS
		2437	Reference	-3.50	-3.50	---	PASS
			30~1000	-3.50	-67.4	≤-23.5	PASS
			1000~26500	-3.50	-55.21	≤-23.5	PASS
		2462	Reference	-4.04	-4.04	---	PASS
			30~1000	-4.04	-67.63	≤-24.04	PASS
			1000~26500	-4.04	-55.11	≤-24.04	PASS
11N20SISO	Ant1	2412	Reference	-3.06	-3.06	---	PASS
			30~1000	-3.06	-66.86	≤-23.06	PASS
			1000~26500	-3.06	-54.87	≤-23.06	PASS
		2437	Reference	-3.65	-3.65	---	PASS
			30~1000	-3.65	-67.56	≤-23.65	PASS
			1000~26500	-3.65	-55.2	≤-23.65	PASS
		2462	Reference	-3.39	-3.39	---	PASS
			30~1000	-3.39	-67.21	≤-23.39	PASS
			1000~26500	-3.39	-54.29	≤-23.39	PASS
11N40SISO	Ant1	2422	Reference	-5.40	-5.40	---	PASS
			30~1000	-5.40	-68	≤-25.4	PASS
			1000~26500	-5.40	-54.44	≤-25.4	PASS
		2437	Reference	-6.68	-6.68	---	PASS
			30~1000	-6.68	-67.22	≤-26.68	PASS
			1000~26500	-6.68	-54.4	≤-26.68	PASS
		2452	Reference	-5.93	-5.93	---	PASS
			30~1000	-5.93	-68.19	≤-25.93	PASS
			1000~26500	-5.93	-55.26	≤-25.93	PASS

Test Graphs

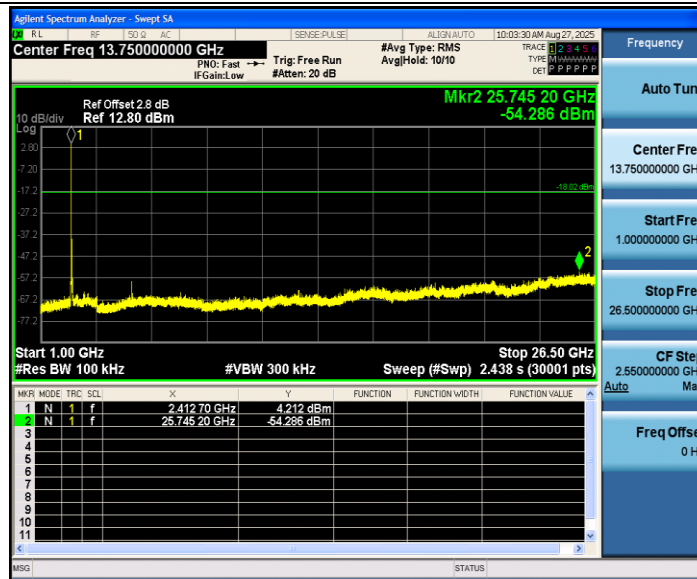
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



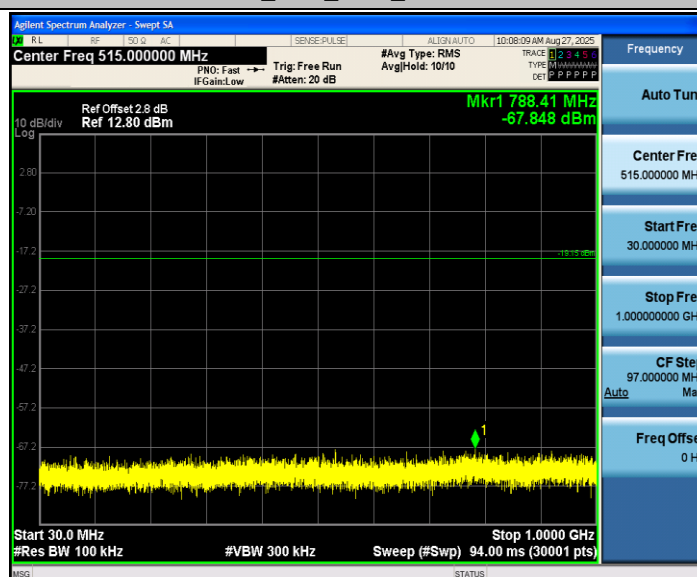
11B_Ant1_2412_1000~26500



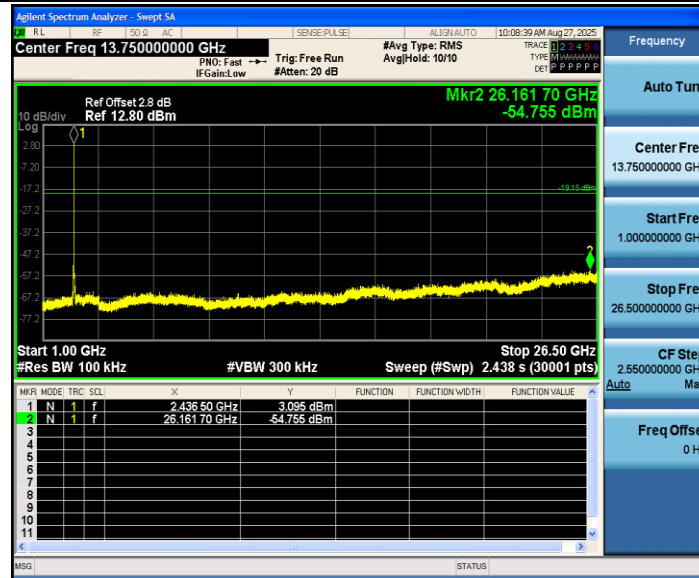
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



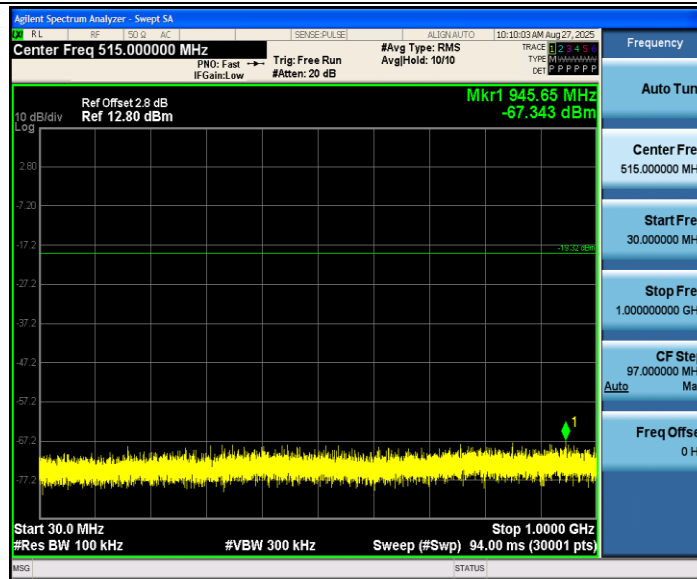
11B_Ant1_2437_1000~26500



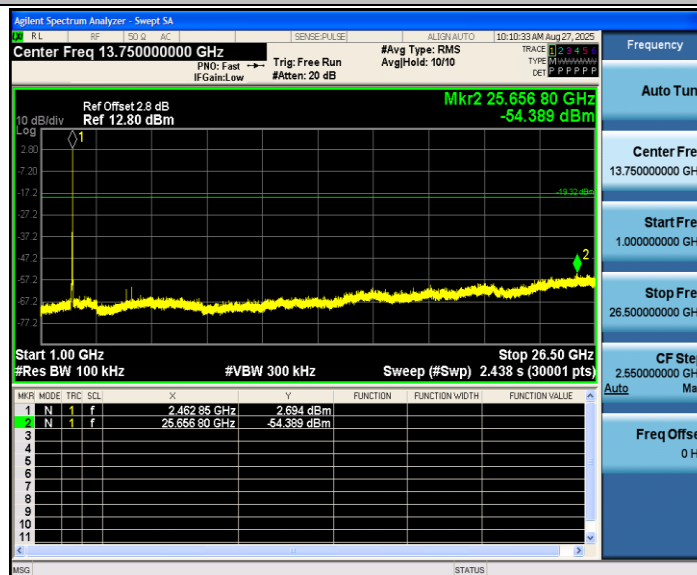
11B_Ant1_2462_0~Reference



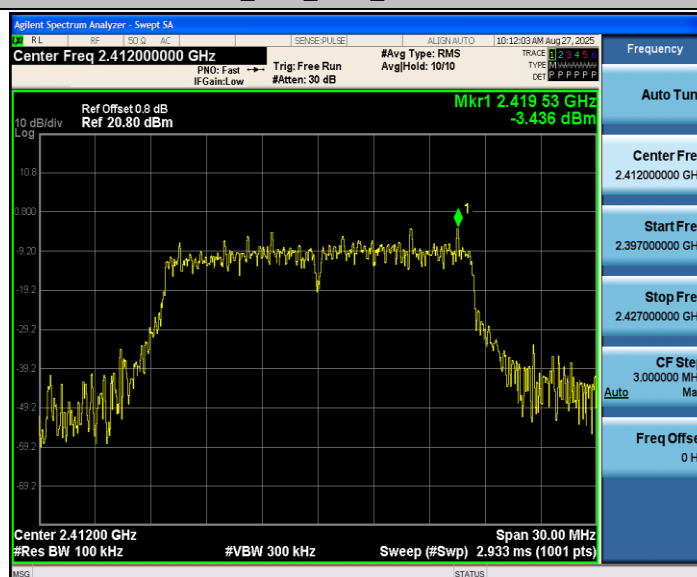
11B_Ant1_2462_30~1000



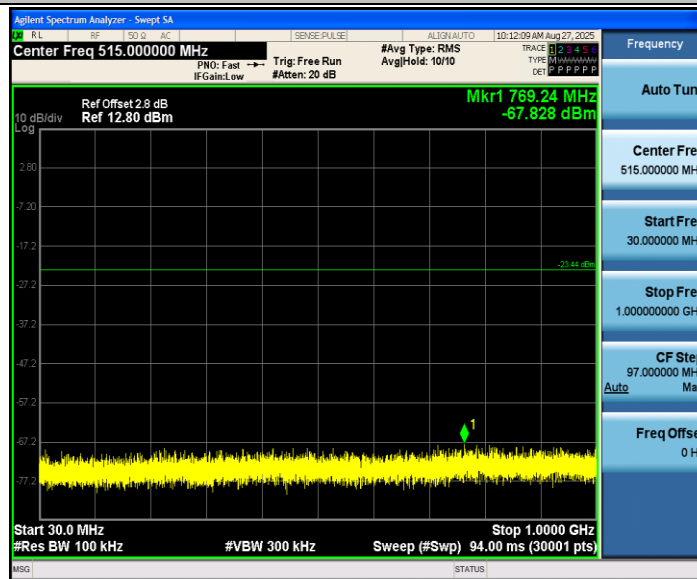
11B_Ant1_2462_1000~26500



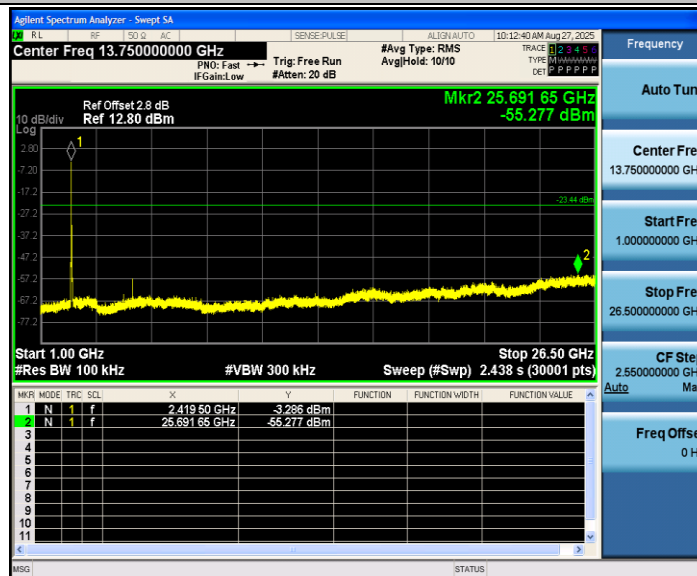
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



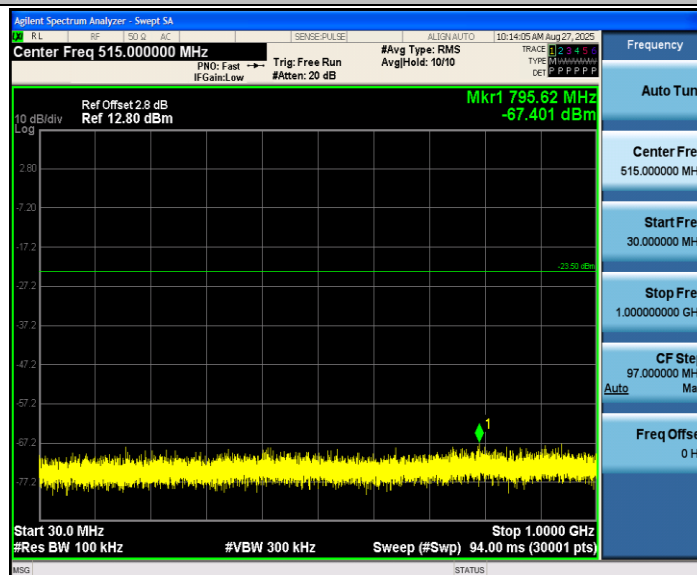
11G_Ant1_2412_1000~26500



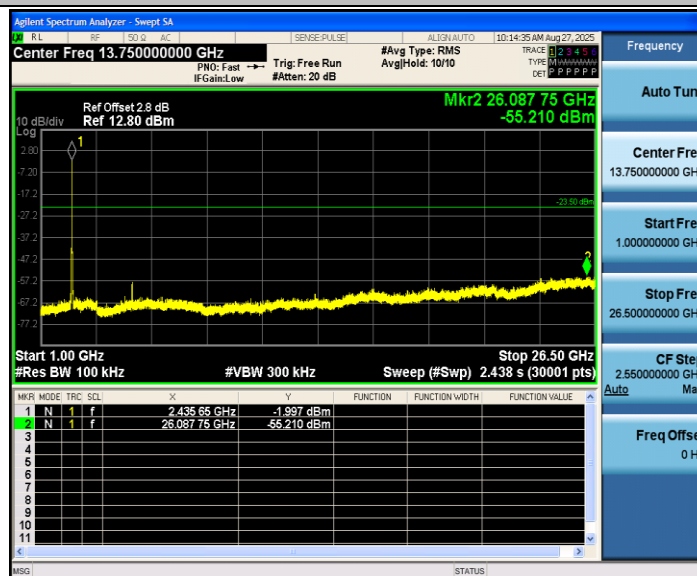
11G_Ant1_2437_0~Reference



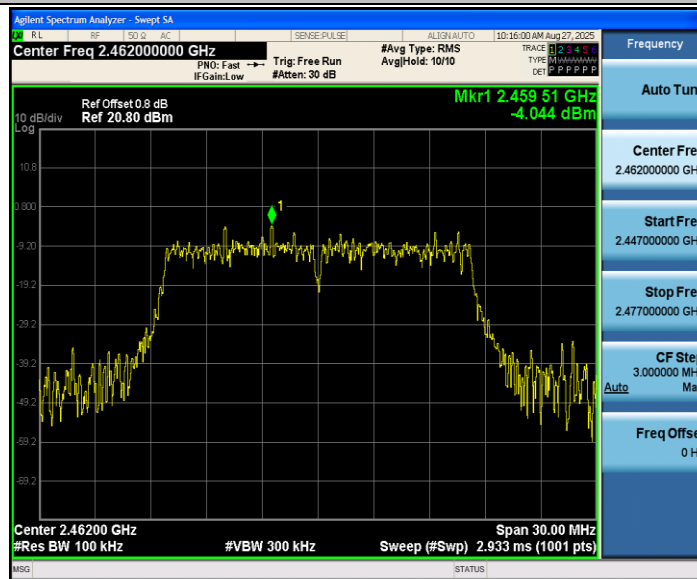
11G_Ant1_2437_30~1000



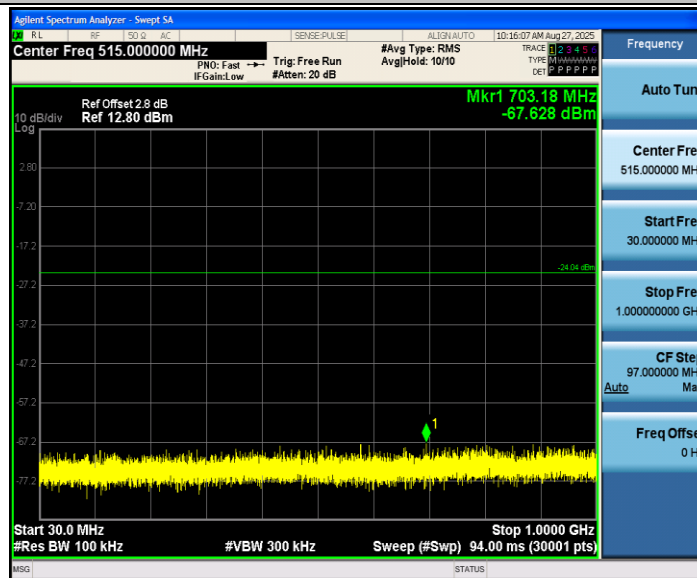
11G_Ant1_2437_1000~26500



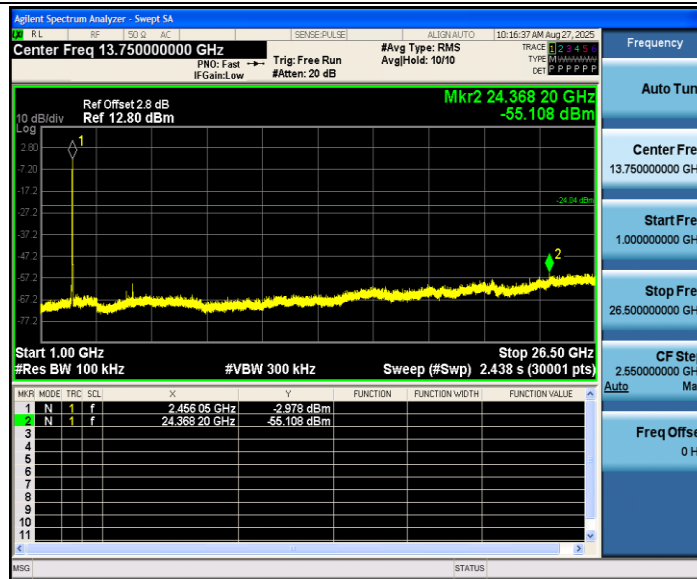
11G_Ant1_2462_0~Reference



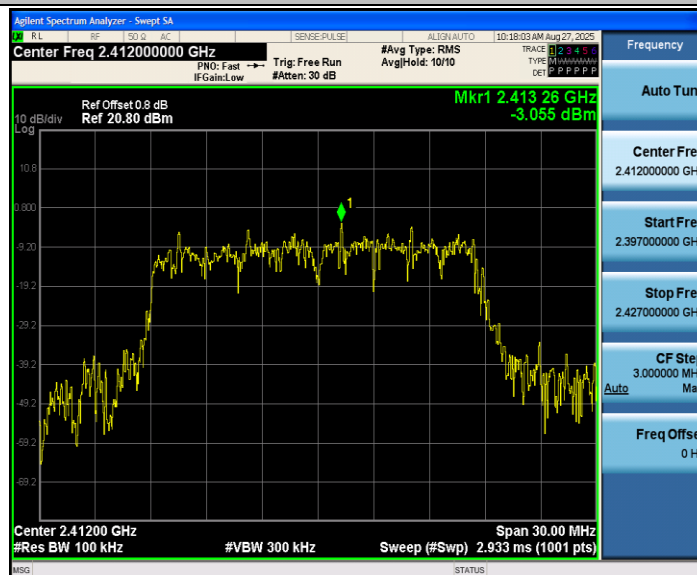
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

