

FCC Appendix RF Test Data for 5GWIFI

FCC ID : 2BA4J-ZULUS

Company : Pangao Photoelectric

EUT : ZULUS 4K

Model Number : ZULUS 4K

Report No. : CTA25090200103

Reviewed By : Eric Wang

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.200	5169.040	5191.240	---	---
		5220	21.960	5209.040	5231.000	---	---
		5240	22.080	5228.880	5250.960	---	---
11N20SISO	Ant1	5180	23.600	5168.520	5192.120	---	---
		5220	22.760	5208.720	5231.480	---	---
		5240	23.440	5228.280	5251.720	---	---
11N40SISO	Ant1	5190	44.000	5168.720	5212.720	---	---
		5230	43.760	5208.880	5252.640	---	---
11AC20SISO	Ant1	5180	22.640	5168.960	5191.600	---	---
		5220	22.640	5208.720	5231.360	---	---
		5240	22.320	5229.360	5251.680	---	---
11AC40SISO	Ant1	5190	42.800	5168.720	5211.520	---	---
		5230	42.800	5208.720	5251.520	---	---
11AC80SISO	Ant1	5210	83.840	5168.560	5252.400	---	---
11AX20SISO	Ant1	5180	22.720	5168.880	5191.600	---	---
		5220	23.560	5208.400	5231.960	---	---
		5240	22.840	5228.720	5251.560	---	---
11AX40SISO	Ant1	5190	41.760	5168.960	5210.720	---	---
		5230	40.560	5209.760	5250.320	---	---
11AX80SISO	Ant1	5210	83.520	5169.040	5252.560	---	---

Test Graphs





11N20SISO_Ant1_5180



11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240



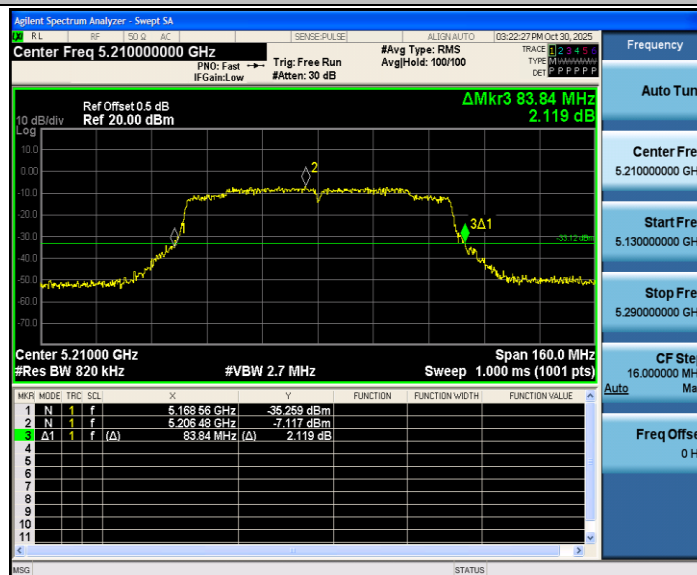
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



11AX20SISO_Ant1_5180



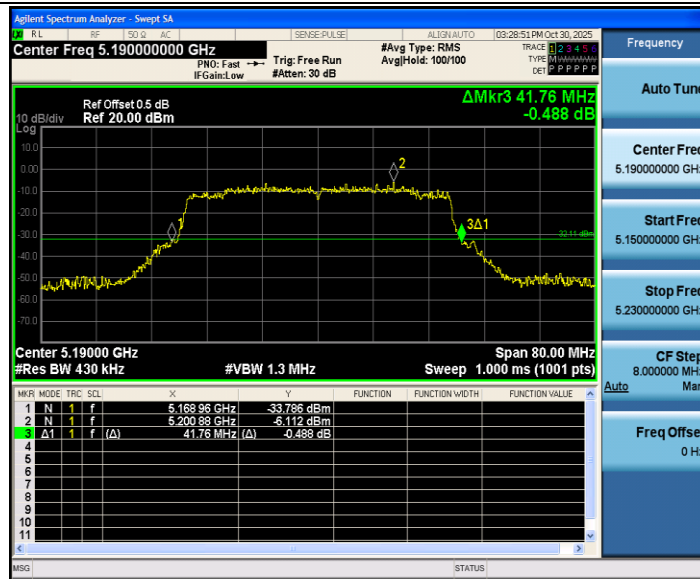
11AX20SISO_Ant1_5220



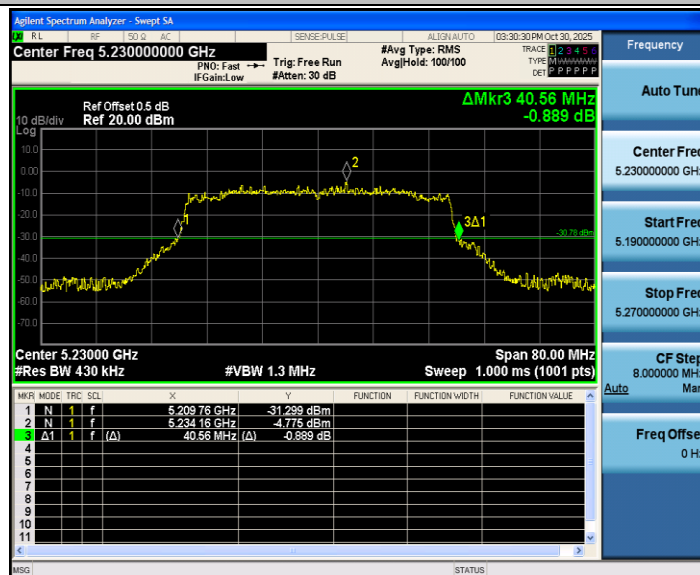
11AX20SISO_Ant1_5240



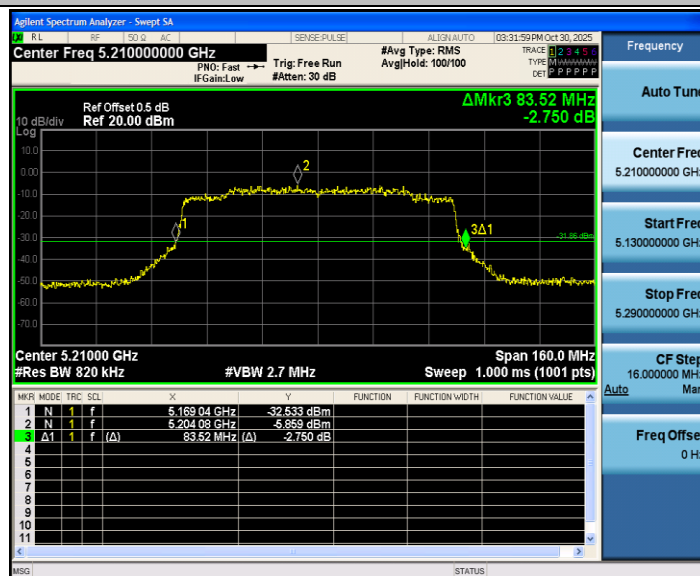
11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210



Appendix A2: Occupied channel bandwidth

Test Result

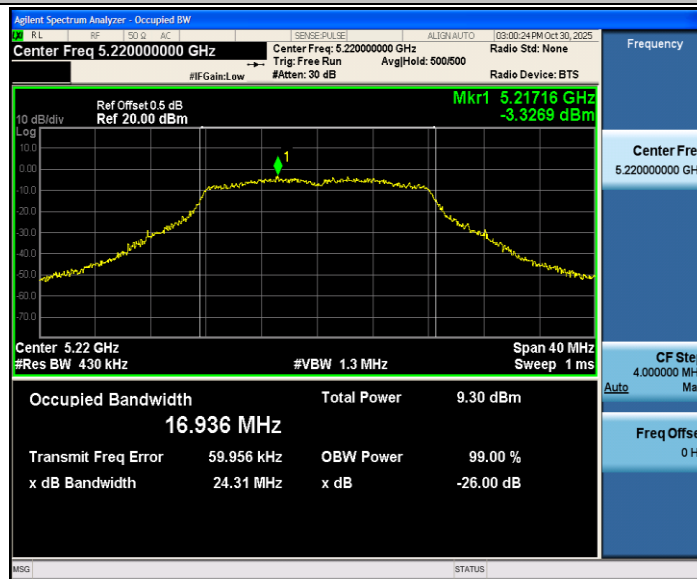
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.992	5171.5612	5188.5532	---	---
		5220	16.936	5211.5920	5228.5280	---	---
		5240	16.995	5231.5650	5248.5600	---	---
11N20SISO	Ant1	5180	18.055	5170.9994	5189.0544	---	---
		5220	18.098	5210.9931	5229.0911	---	---
		5240	18.057	5231.0378	5249.0948	---	---
11N40SISO	Ant1	5190	36.255	5171.9760	5208.2310	---	---
		5230	36.213	5211.9940	5248.2070	---	---
11AC20SISO	Ant1	5180	18.003	5171.0619	5189.0649	---	---
		5220	18.023	5211.0280	5229.0510	---	---
		5240	18.013	5231.0308	5249.0438	---	---
11AC40SISO	Ant1	5190	36.168	5171.9886	5208.1566	---	---
		5230	36.204	5211.9936	5248.1976	---	---
11AC80SISO	Ant1	5210	75.234	5172.5884	5247.8224	---	---
11AX20SISO	Ant1	5180	19.006	5170.5477	5189.5537	---	---
		5220	19.005	5210.5500	5229.5550	---	---
		5240	19.000	5230.5319	5249.5319	---	---
11AX40SISO	Ant1	5190	37.725	5171.1938	5208.9188	---	---
		5230	37.640	5211.2910	5248.9310	---	---
11AX80SISO	Ant1	5210	76.509	5171.9228	5248.4318	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5220



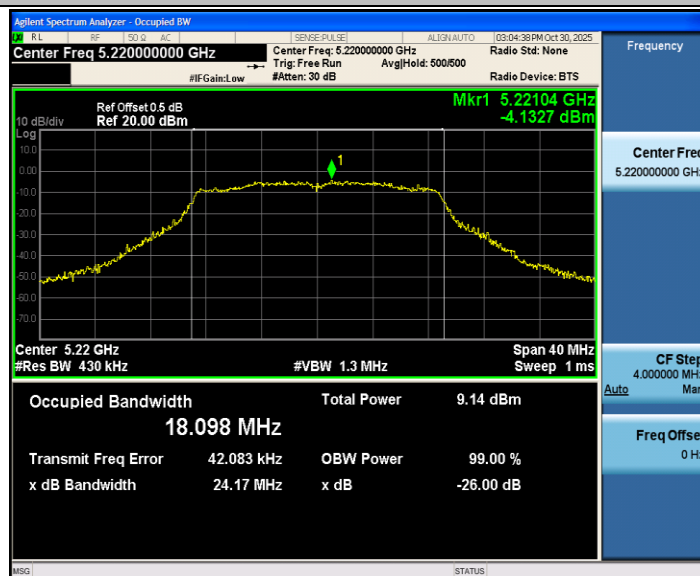
11A_Ant1_5240



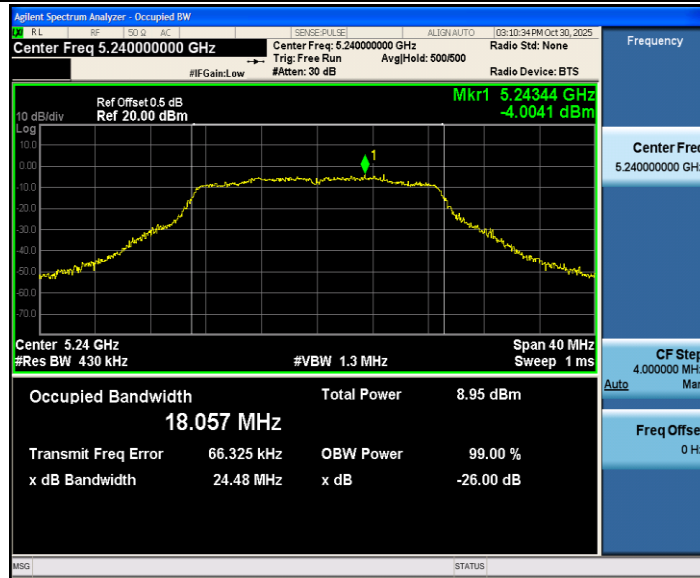
11N20SISO_Ant1_5180



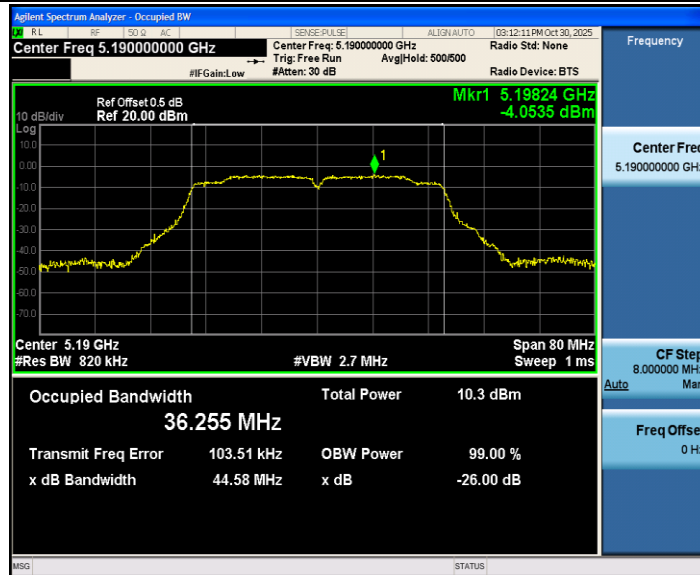
11N20SISO_Ant1_5220



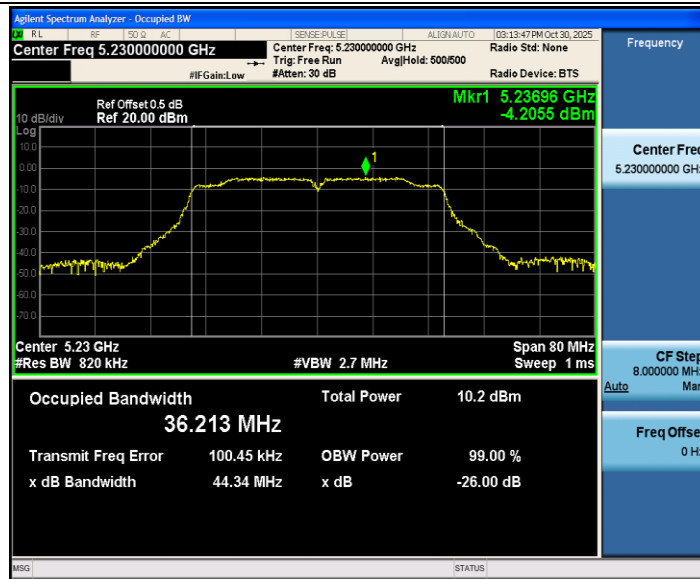
11N20SISO_Ant1_5240



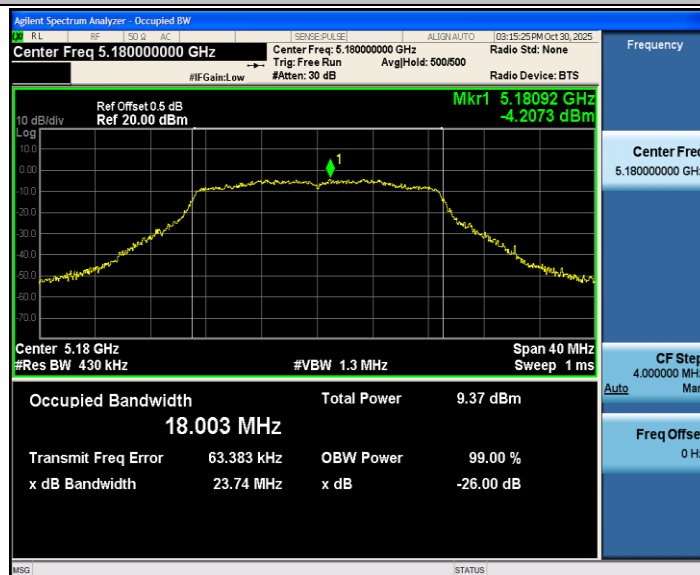
11N40SISO_Ant1_5190



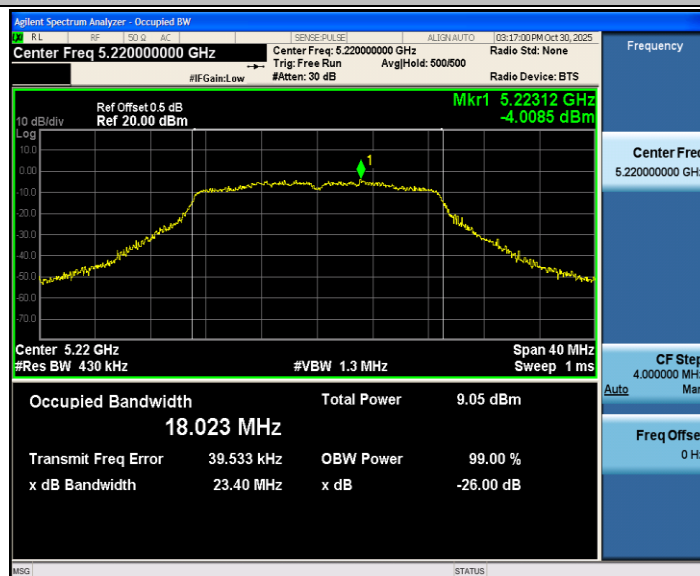
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



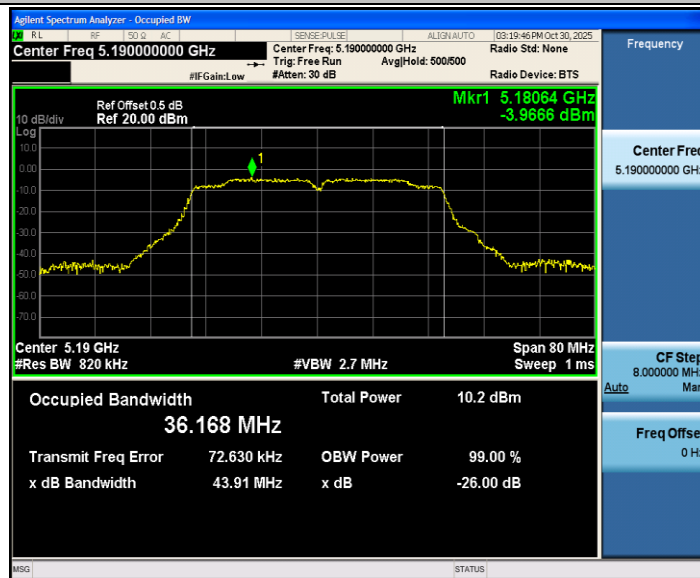
11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240



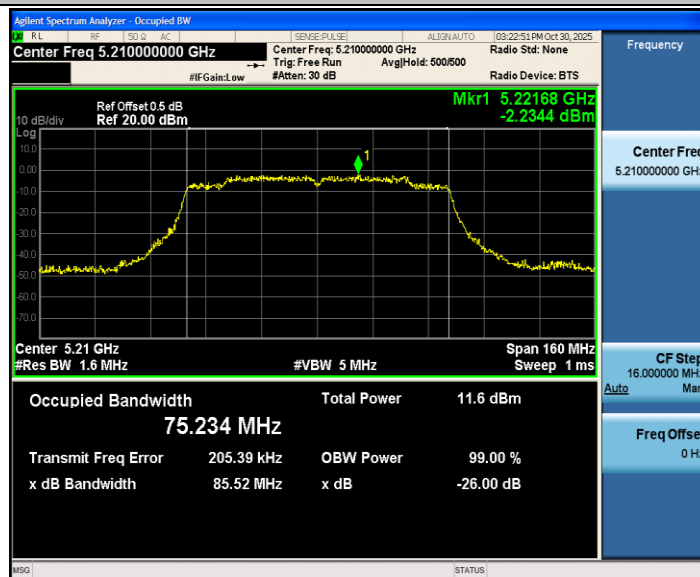
11AC40SISO_Ant1_5190



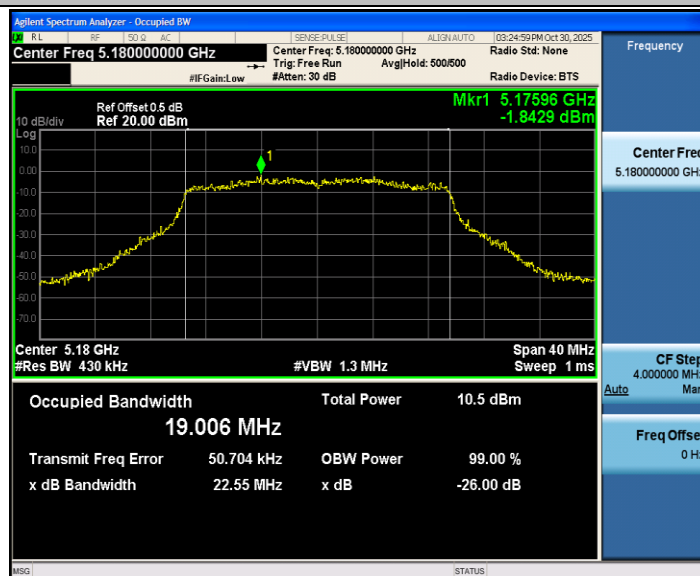
11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



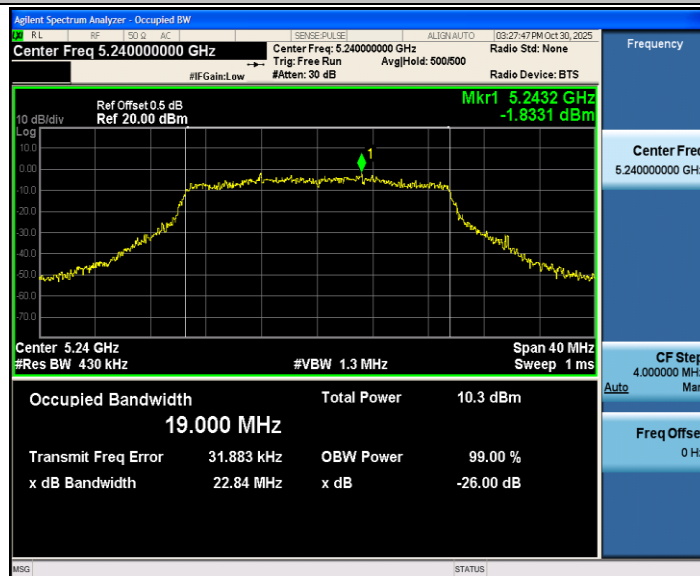
11AX20SISO_Ant1_5180



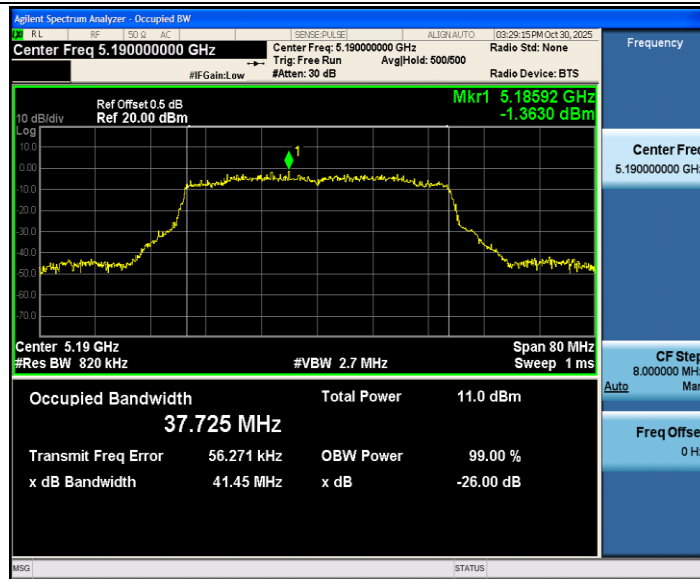
11AX20SISO_Ant1_5220



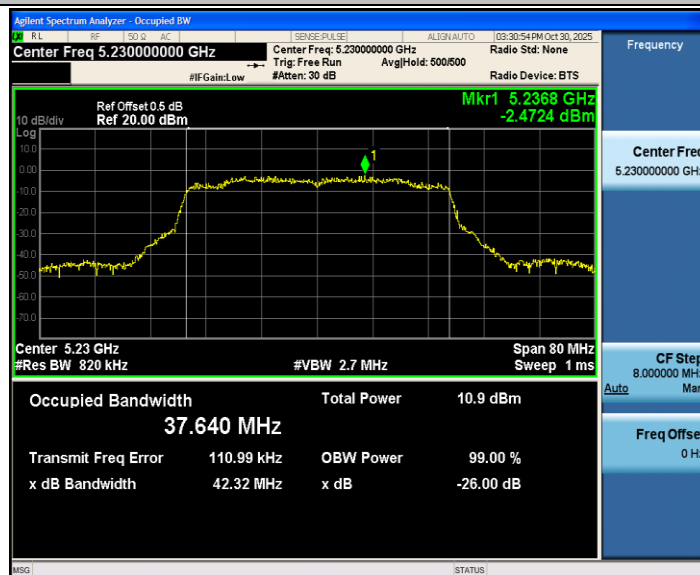
11AX20SISO_Ant1_5240



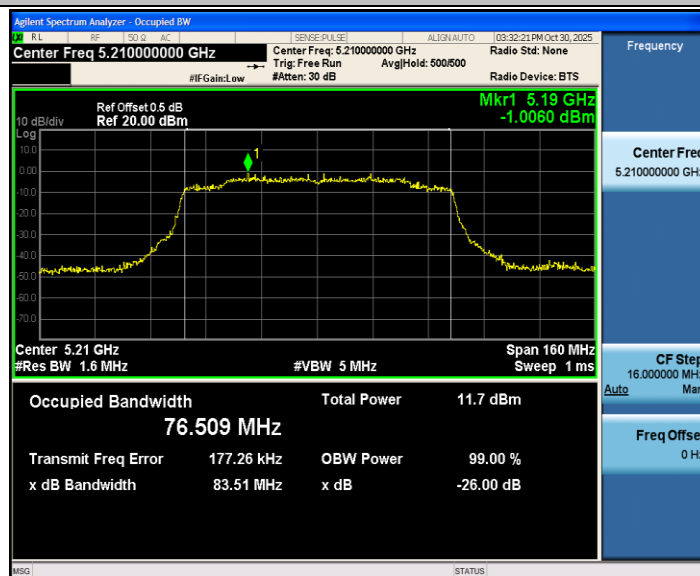
11AX40SISO_Ant1_5190



11AX40ISO_Ant1_5230



11AX80ISO_Ant1_5210

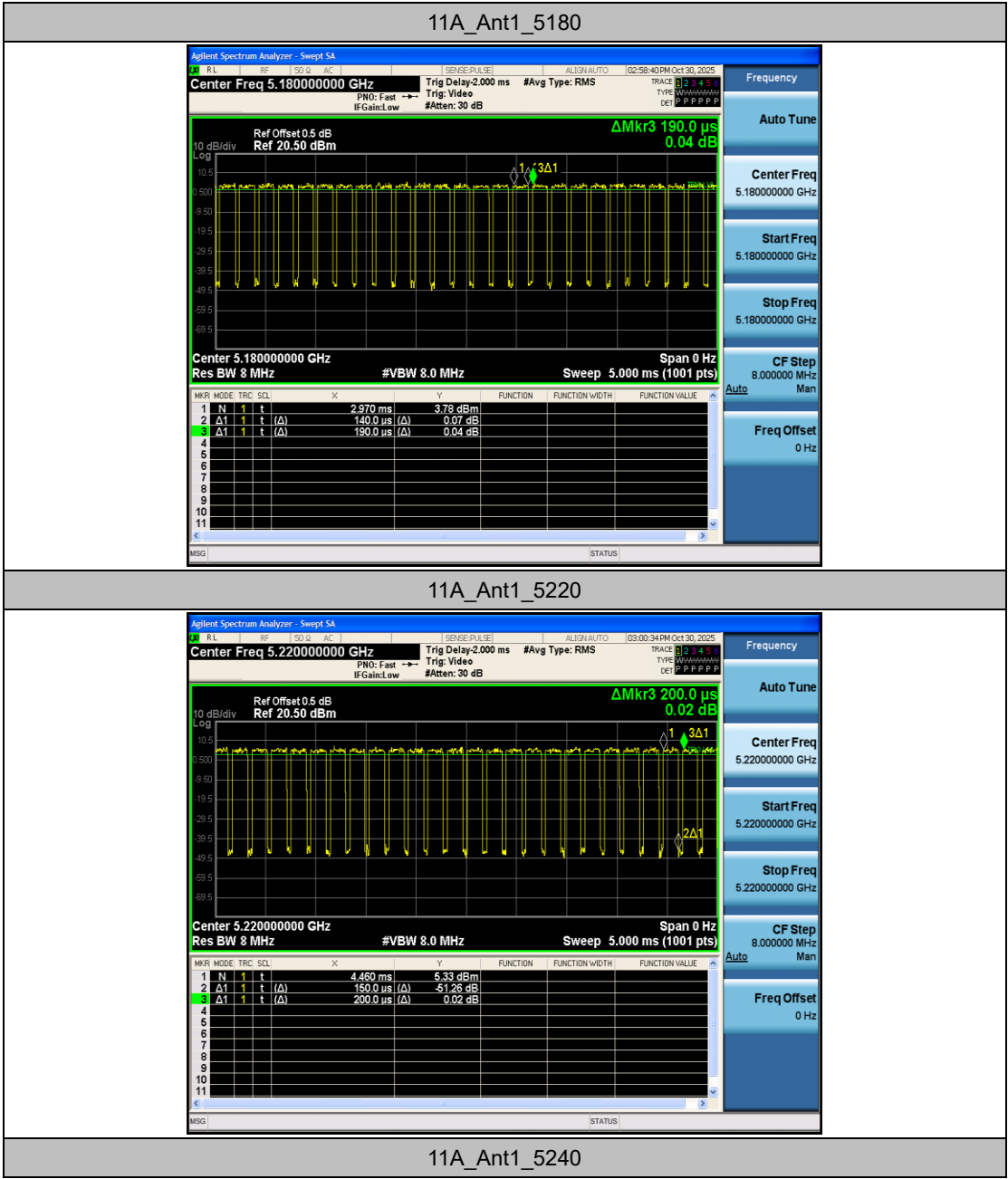


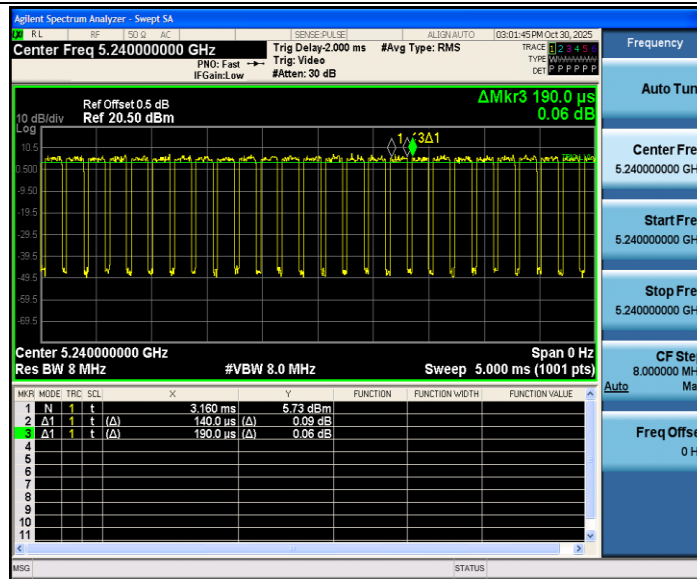
Appendix B: Duty Cycle

Test Result

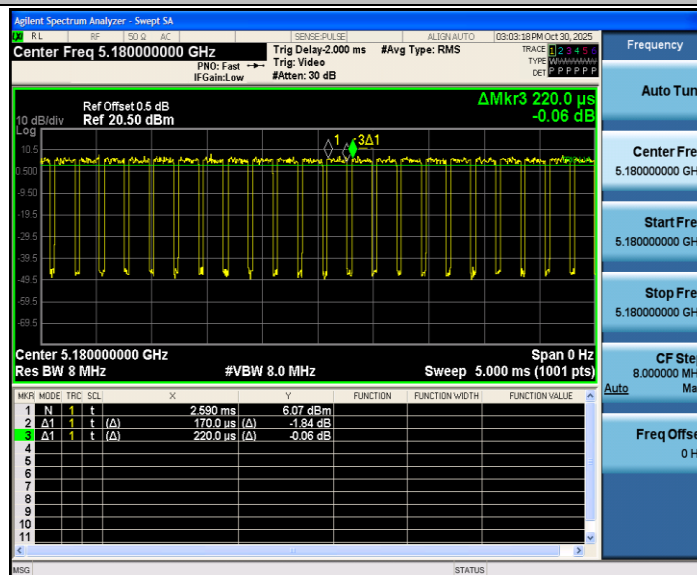
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty factor(dB)	Limit	Verdict
11A	Ant1	5180	0.14	0.19	73.68	1.33	---	---
		5220	0.15	0.20	75.00	1.25	---	---
		5240	0.14	0.19	73.68	1.33	---	---
11N20SISO	Ant1	5180	0.17	0.22	77.27	1.12	---	---
		5220	0.17	0.22	77.27	1.12	---	---
		5240	0.17	0.22	77.27	1.12	---	---
11N40SISO	Ant1	5190	0.18	0.23	78.26	1.06	---	---
		5230	0.18	0.23	78.26	1.06	---	---
11AC20SISO	Ant1	5180	0.16	0.21	76.19	1.18	---	---
		5220	0.16	0.21	76.19	1.18	---	---
		5240	0.16	0.21	76.19	1.18	---	---
11AC40SISO	Ant1	5190	0.16	0.21	76.19	1.18	---	---
		5230	0.15	0.20	75.00	1.25	---	---
11AC80SISO	Ant1	5210	0.16	0.21	76.19	1.18	---	---
11AX20SISO	Ant1	5180	0.25	0.30	83.33	0.79	---	---
		5220	0.26	0.31	83.87	0.76	---	---
		5240	0.26	0.31	83.87	0.76	---	---
11AX40SISO	Ant1	5190	0.18	0.23	78.26	1.06	---	---
		5230	0.17	0.22	77.27	1.12	---	---
11AX80SISO	Ant1	5210	0.15	0.20	75.00	1.25	---	---

Test Graphs

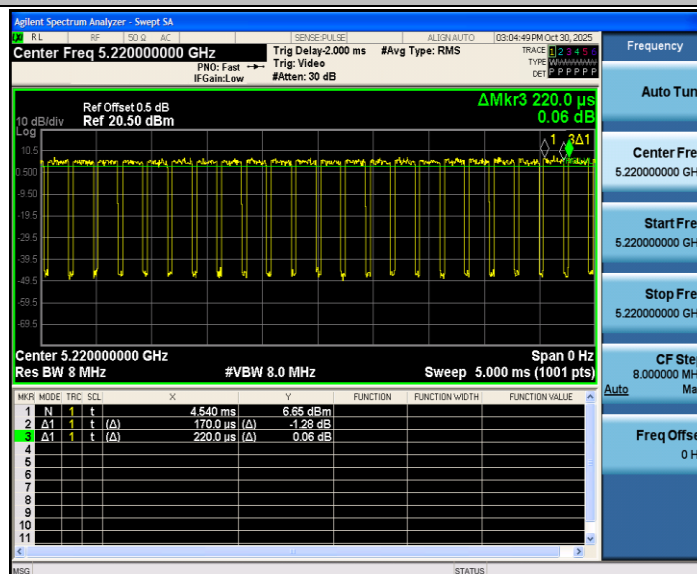




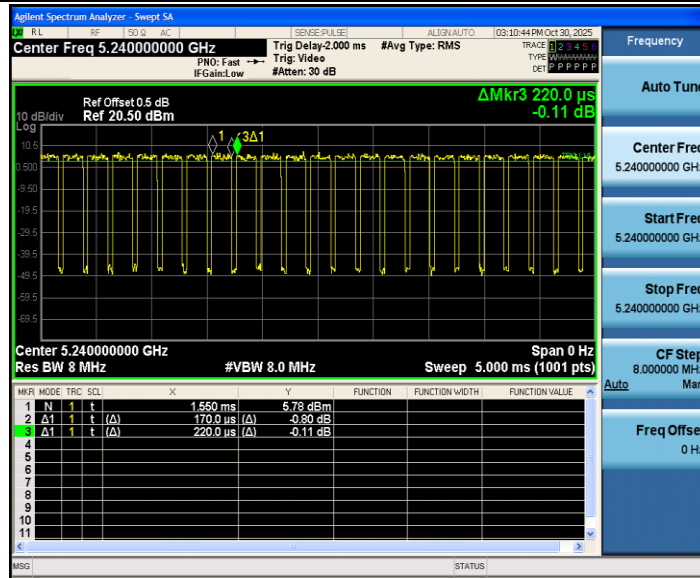
11N20SISO_Ant1_5180



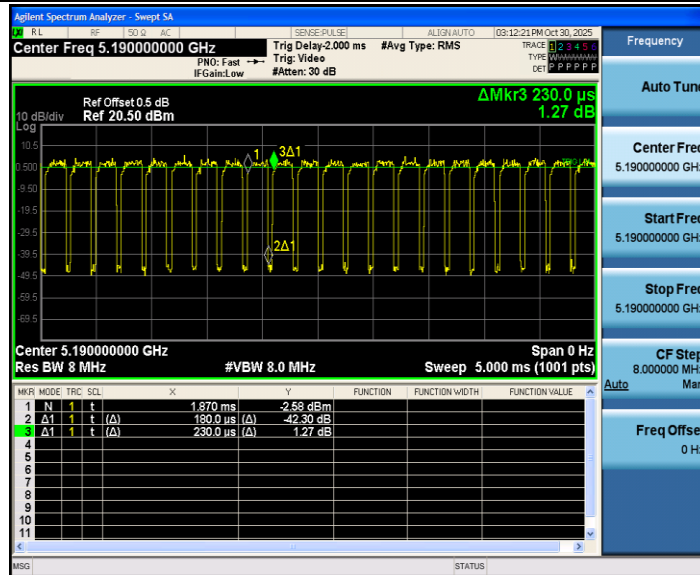
11N20SISO_Ant1_5220



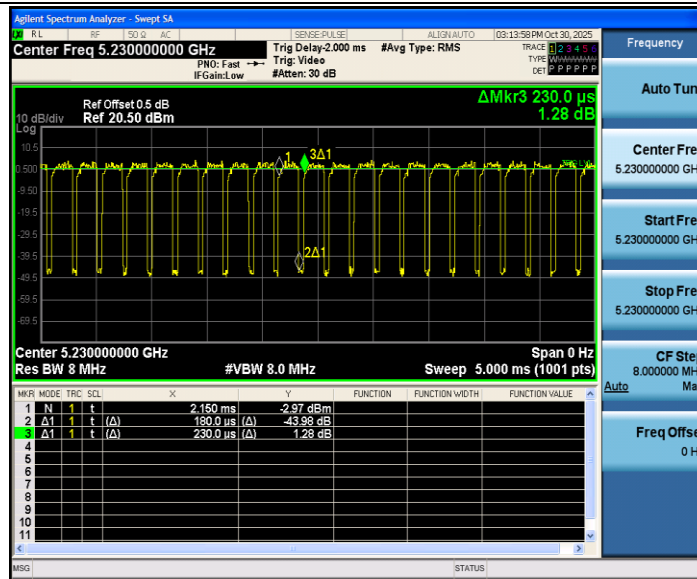
11N20SISO_Ant1_5240



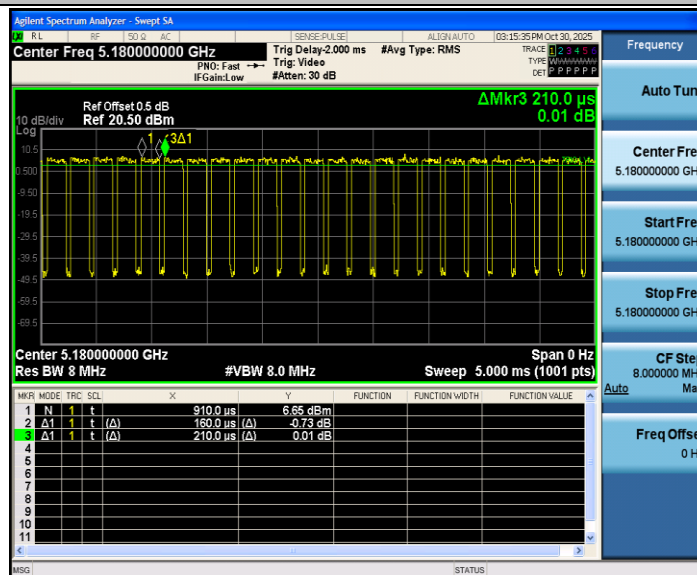
11N40SISO_Ant1_5190



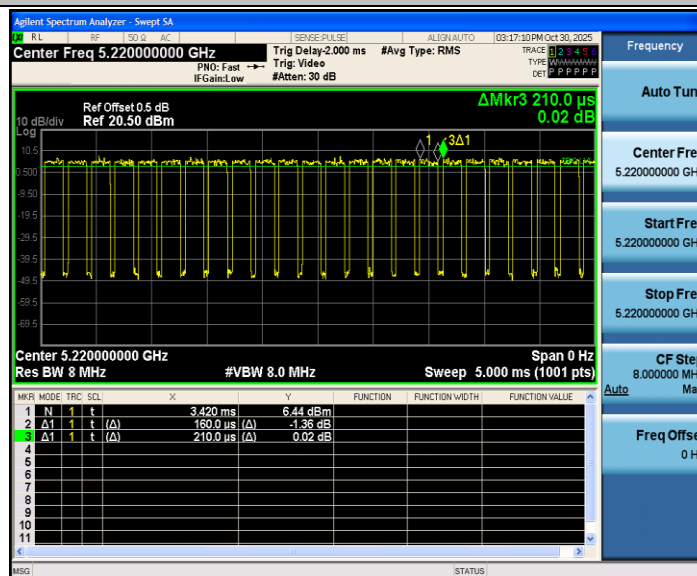
11N40SISO_Ant1_5230



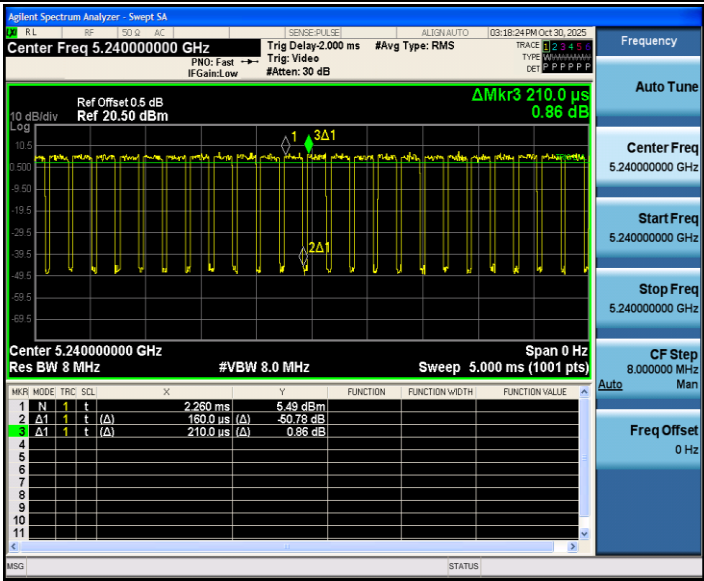
11AC20SISO_Ant1_5180



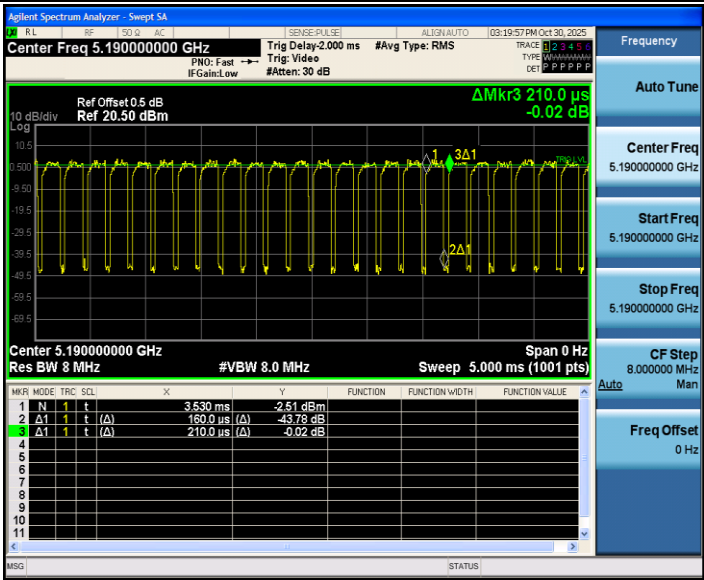
11AC20SISO_Ant1_5220



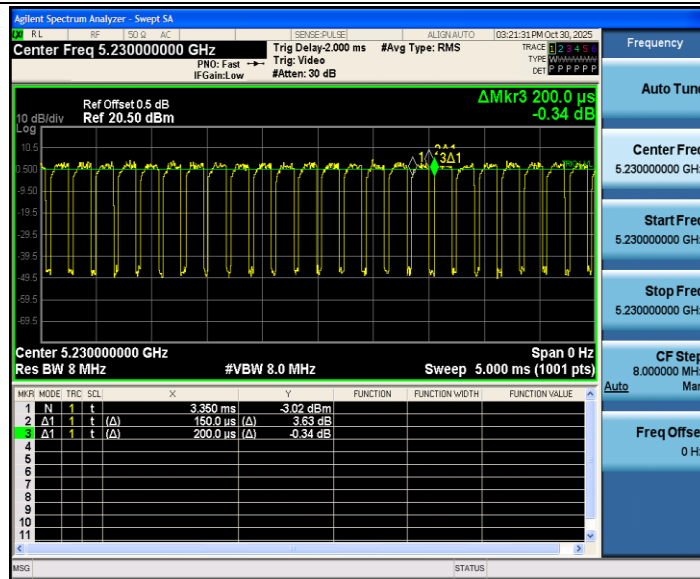
11AC20SISO_Ant1_5240



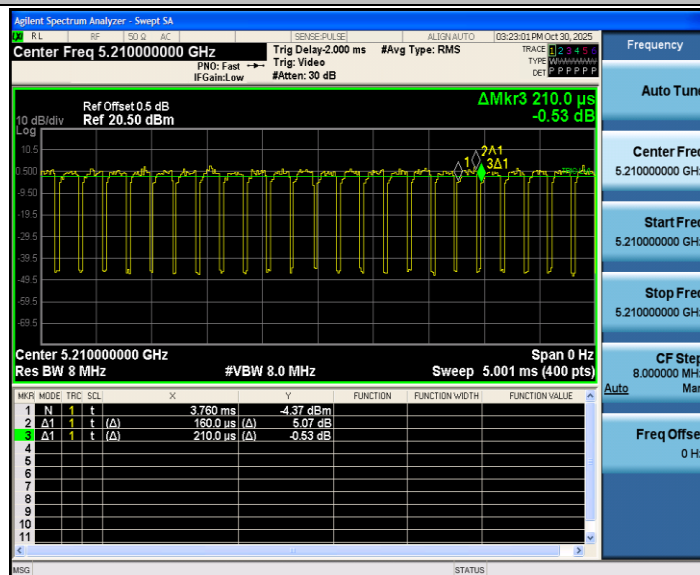
11AC40SISO_Ant1_5190



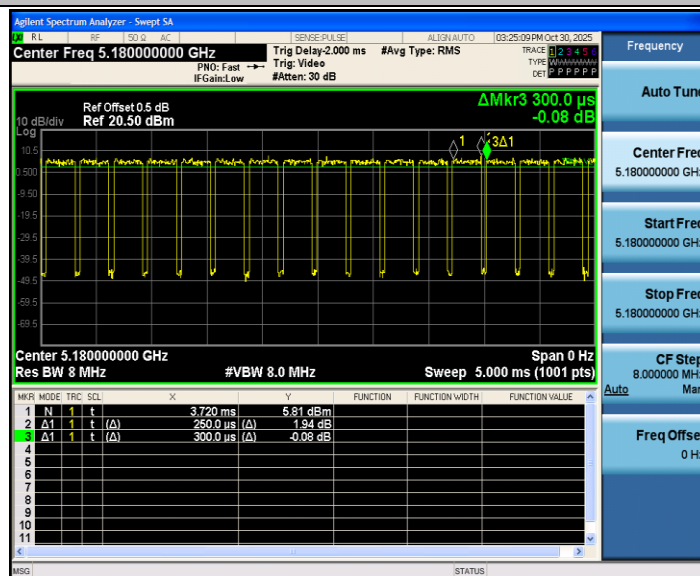
11AC40SISO_Ant1_5230

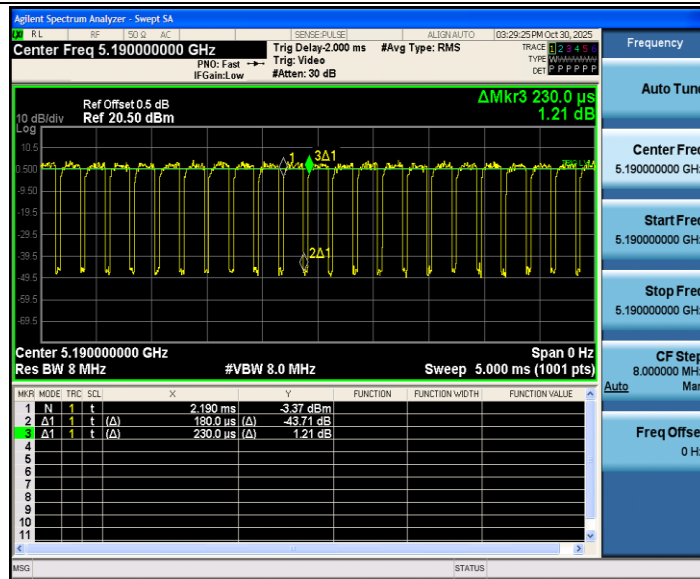


11AC80SISO_Ant1_5210

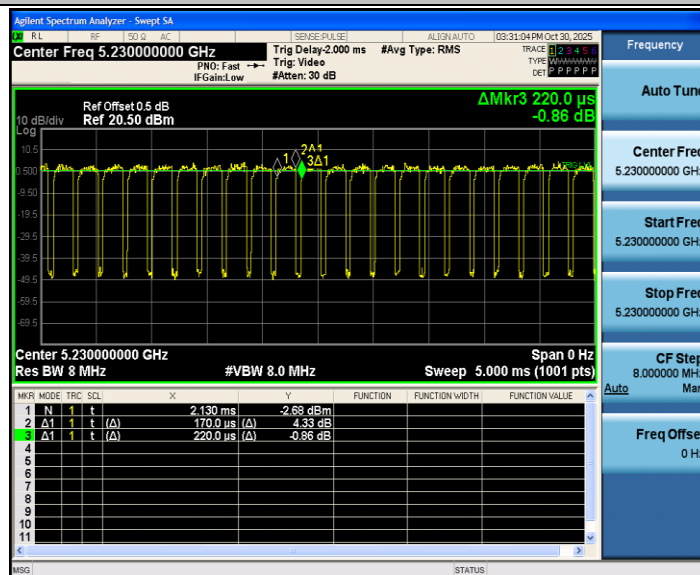


11AX20SISO_Ant1_5180

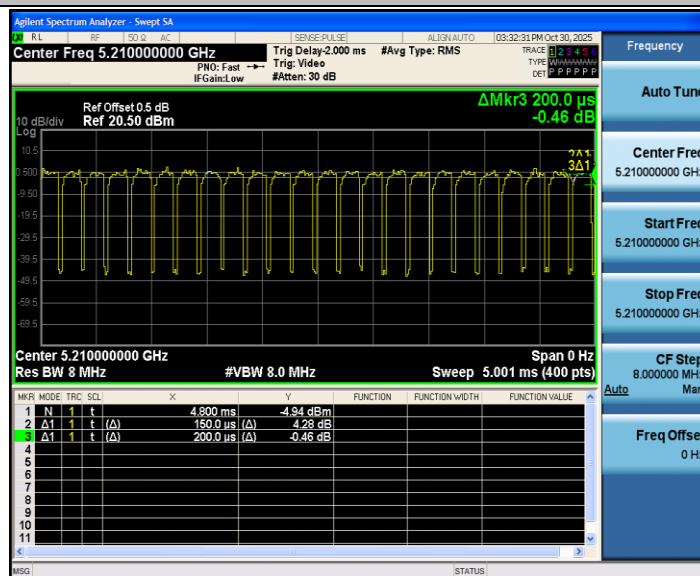




11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210



Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	1.77	73.68	1.33	3.10	≤23.98	PASS
		5220	1.51	75.00	1.25	2.76	≤23.98	PASS
		5240	1.28	73.68	1.33	2.61	≤23.98	PASS
11N20SI SO	Ant1	5180	1.73	77.27	1.12	2.85	≤23.98	PASS
		5220	1.57	77.27	1.12	2.69	≤23.98	PASS
		5240	1.36	77.27	1.12	2.48	≤23.98	PASS
11N40SI SO	Ant1	5190	1.85	78.26	1.06	2.91	≤23.98	PASS
		5230	1.70	78.26	1.06	2.76	≤23.98	PASS
11AC20S ISO	Ant1	5180	1.75	76.19	1.18	2.93	≤23.98	PASS
		5220	1.43	76.19	1.18	2.61	≤23.98	PASS
		5240	1.21	76.19	1.18	2.39	≤23.98	PASS
11AC40S ISO	Ant1	5190	1.63	76.19	1.18	2.81	≤23.98	PASS
		5230	1.52	75.00	1.25	2.77	≤23.98	PASS
11AC80S ISO	Ant1	5210	1.95	76.19	1.18	3.13	≤23.98	PASS
11AX20S ISO	Ant1	5180	1.73	83.33	0.79	2.52	≤23.98	PASS
		5220	1.58	83.87	0.76	2.34	≤23.98	PASS
		5240	1.38	83.87	0.76	2.14	≤23.98	PASS
11AX40S ISO	Ant1	5190	1.43	78.26	1.06	2.49	≤23.98	PASS
		5230	1.33	77.27	1.12	2.45	≤23.98	PASS
11AX80S ISO	Ant1	5210	1.60	75.00	1.25	2.85	≤23.98	PASS