

Case No. : <u>CTA24103100104</u>	
Ambient Condition: <u>23</u> °C, <u>52</u> %RH	
According Standard: <u>■Part15E</u>	
Test Date: <u>2024.9.9</u>	Test Engineer: <u>Lushan Kong</u>

Appendix E.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	24.840	5246.880	5271.720	---	---
		5280	24.560	5267.520	5292.080	---	---
		5320	24.960	5307.680	5332.640	---	---
11N20SISO	Ant1	5260	25.400	5246.720	5272.120	---	---
		5280	26.040	5267.120	5293.160	---	---
		5320	25.960	5307.360	5333.320	---	---
11N40SISO	Ant1	5270	45.360	5247.120	5292.480	---	---
		5310	45.920	5287.200	5333.120	---	---
11AC20SISO	Ant1	5260	24.600	5247.680	5272.280	---	---
		5280	26.600	5266.120	5292.720	---	---
		5320	25.440	5307.400	5332.840	---	---
11AC40SISO	Ant1	5270	46.560	5246.800	5293.360	---	---
		5310	50.240	5286.720	5336.960	---	---
11AC80SISO	Ant1	5290	96.320	5238.160	5334.480	---	---
11AX20SISO	Ant1	5260	24.640	5247.240	5271.880	---	---
		5280	24.720	5267.440	5292.160	---	---
		5320	24.360	5308.120	5332.480	---	---
11AX40SISO	Ant1	5270	44.880	5247.360	5292.240	---	---
		5310	45.280	5288.240	5333.520	---	---
11AX80SISO	Ant1	5290	85.760	5247.440	5333.200	---	---

Test Graphs





11N20SISO_Ant1_5320



11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290



11AX20SISO_Ant1_5260



11AX20SISO_Ant1_5280



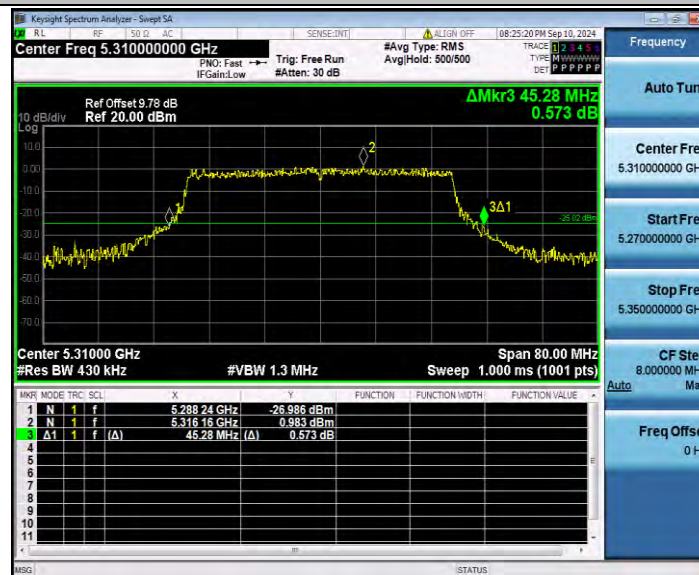
11AX20SISO_Ant1_5320



11AX40SISO_Ant1_5270



11AX40SISO_Ant1_5310



11AX80SISO_Ant1_5290

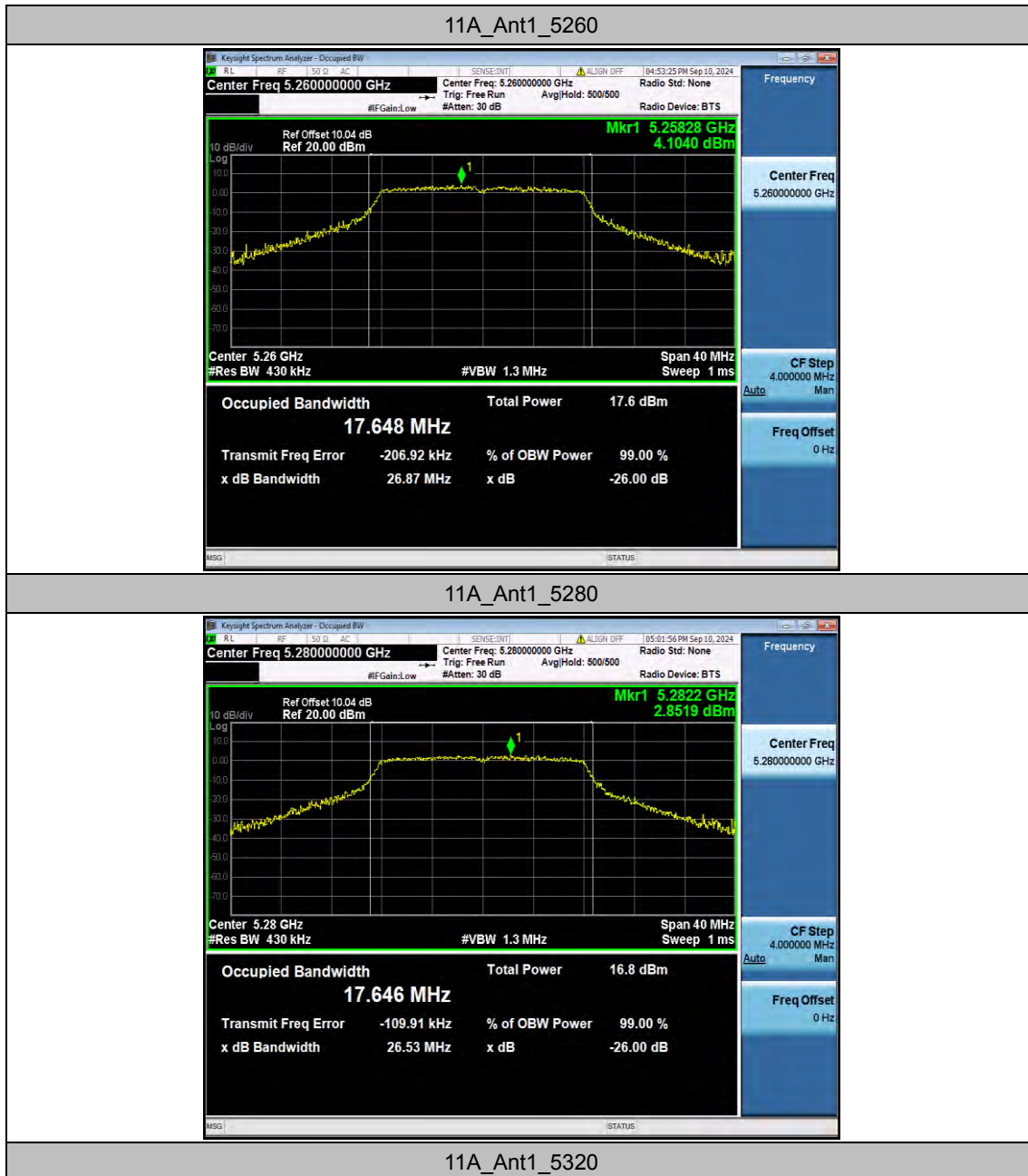


Appendix E.2: Occupied channel bandwidth

Test Result

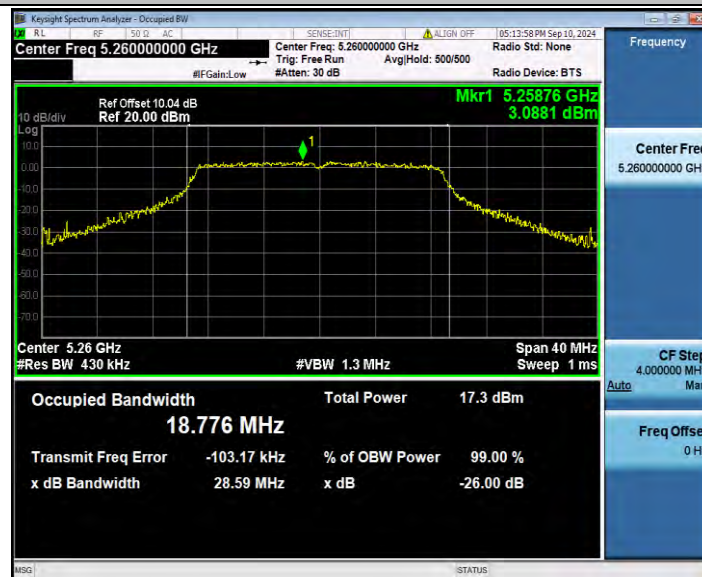
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	17.648	5250.9691	5268.6171	---	---
		5280	17.646	5271.0671	5288.7131	---	---
		5320	17.569	5311.1992	5328.7682	---	---
11N20SISO	Ant1	5260	18.776	5250.5088	5269.2848	---	---
		5280	18.742	5270.5579	5289.2999	---	---
		5320	18.661	5310.6899	5329.3509	---	---
11N40SISO	Ant1	5270	37.219	5251.2409	5288.4599	---	---
		5310	37.181	5291.5304	5328.7114	---	---
11AC20SISO	Ant1	5260	18.699	5250.5334	5269.2324	---	---
		5280	18.706	5270.5954	5289.3014	---	---
		5320	18.729	5310.6198	5329.3488	---	---
11AC40SISO	Ant1	5270	37.300	5251.2153	5288.5153	---	---
		5310	37.145	5291.4853	5328.6303	---	---
11AC80SISO	Ant1	5290	76.600	5251.5889	5328.1889	---	---
11AX20SISO	Ant1	5260	19.409	5250.2388	5269.6478	---	---
		5280	19.502	5270.2176	5289.7196	---	---
		5320	19.561	5310.2086	5329.7696	---	---
11AX40SISO	Ant1	5270	38.247	5250.7261	5288.9731	---	---
		5310	38.260	5290.9513	5329.2113	---	---
11AX80SISO	Ant1	5290	77.914	5251.0519	5328.9659	---	---

Test Graphs





11N20SISO_Ant1_5260



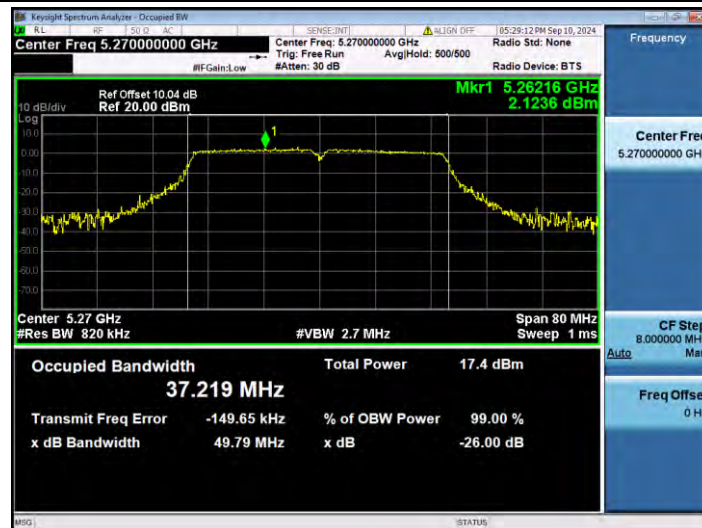
11N20SISO_Ant1_5280



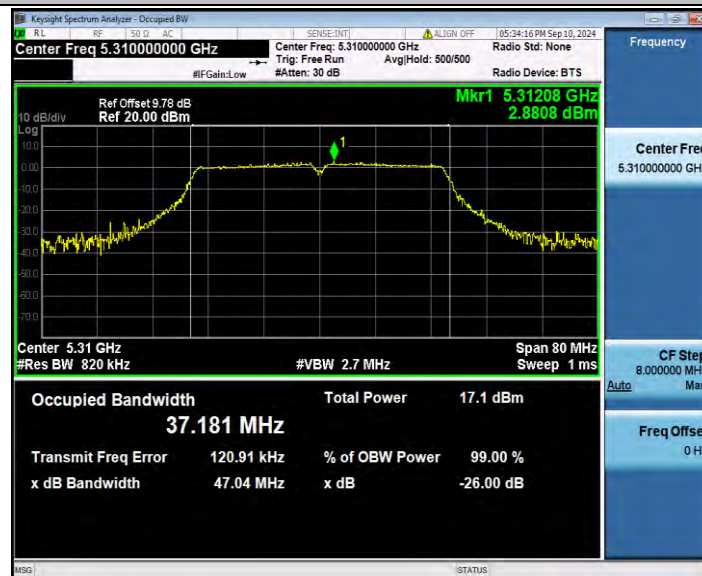
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11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



11AC20SISO_Ant1_5260



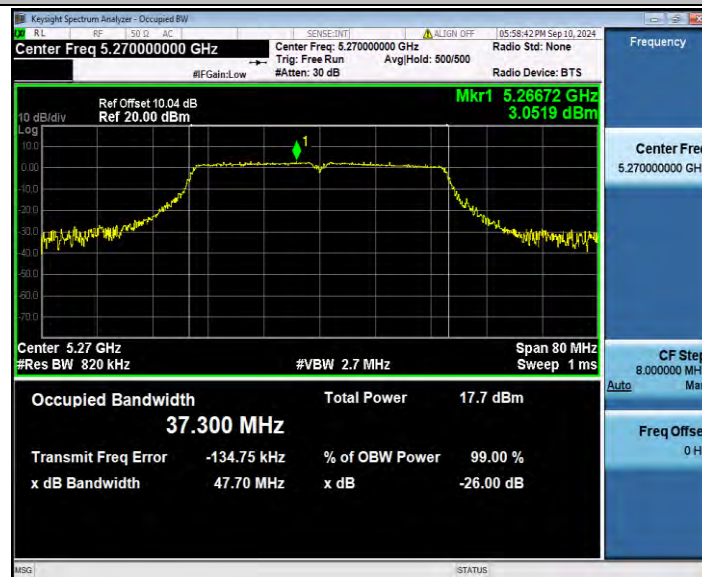
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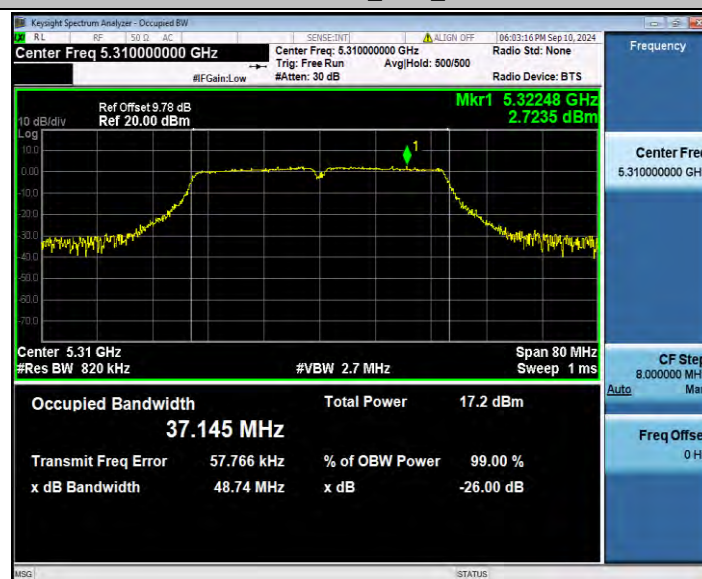
11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290



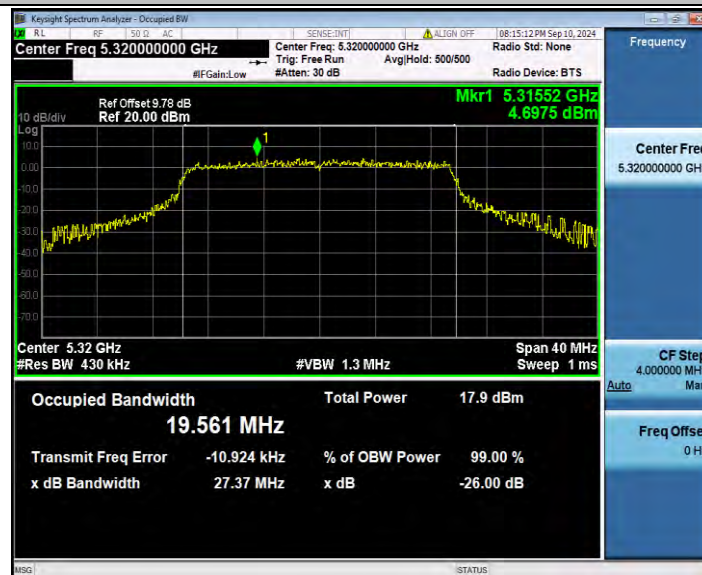
11AX20SISO_Ant1_5260



11AX20SISO_Ant1_5280



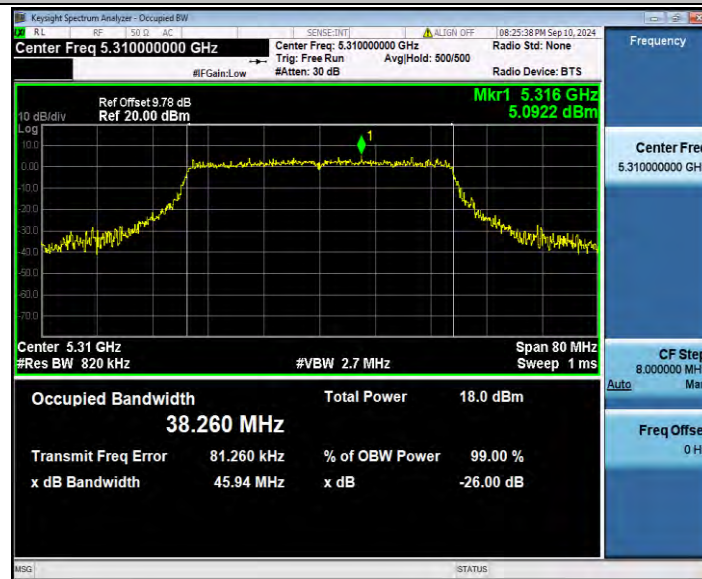
11AX20SISO_Ant1_5320



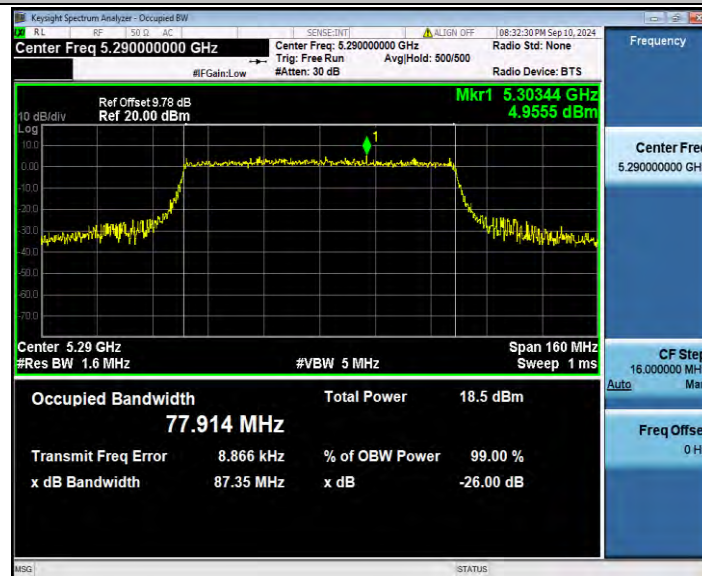
11AX40SISO_Ant1_5270



11AX40SISO_Ant1_5310



11AX80SISO_Ant1_5290

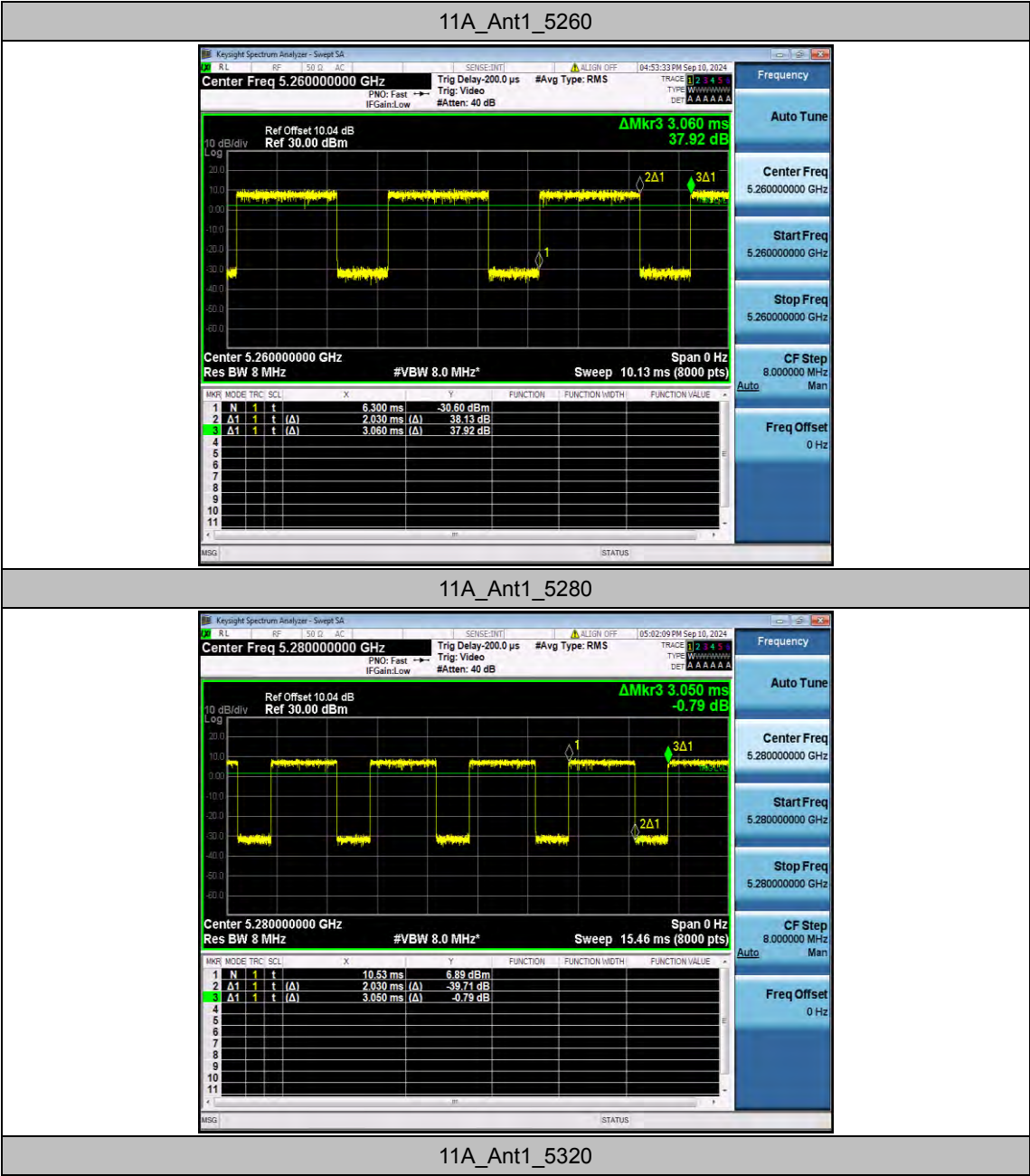


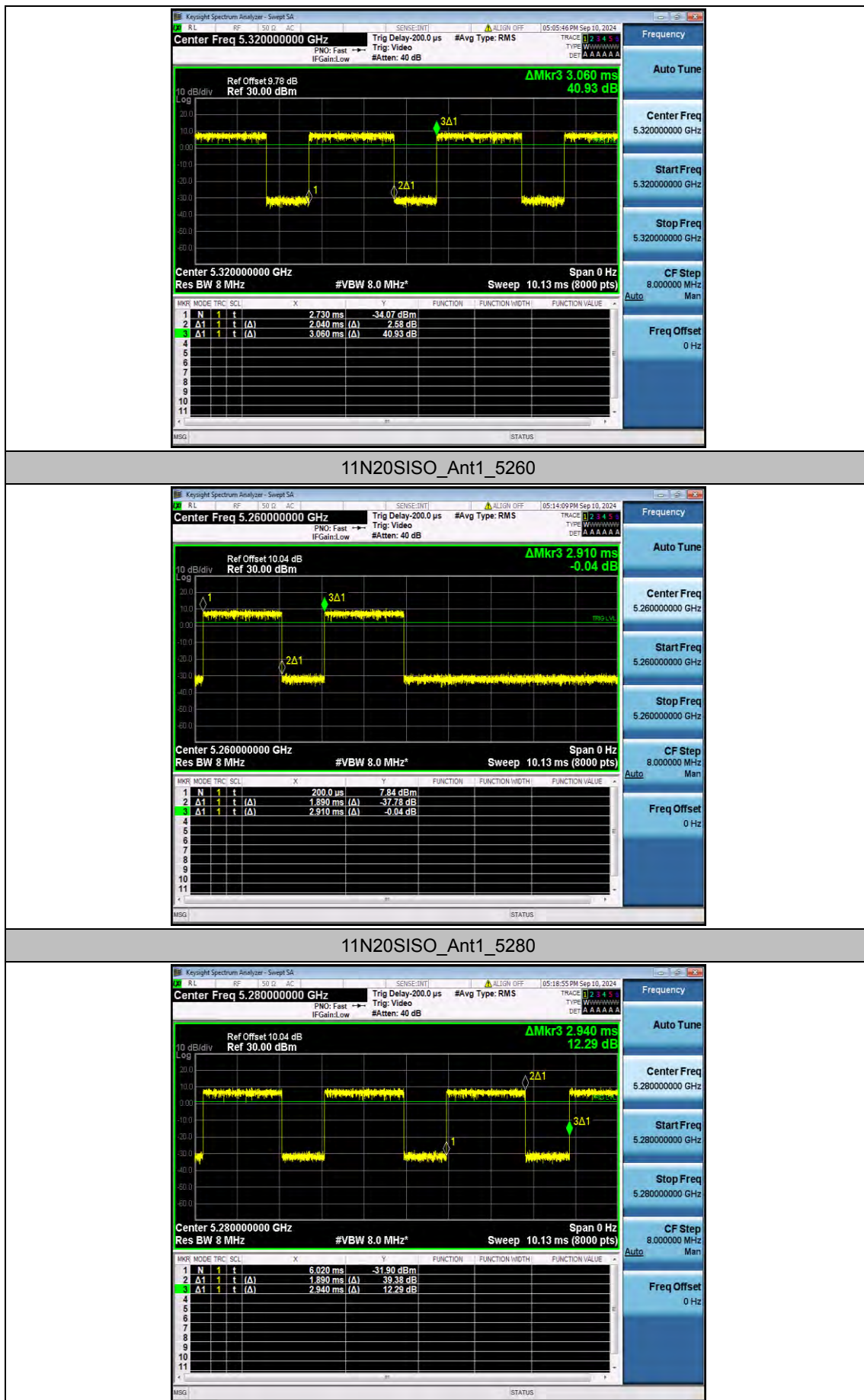
Appendix E.3: Duty Cycle

Test Result

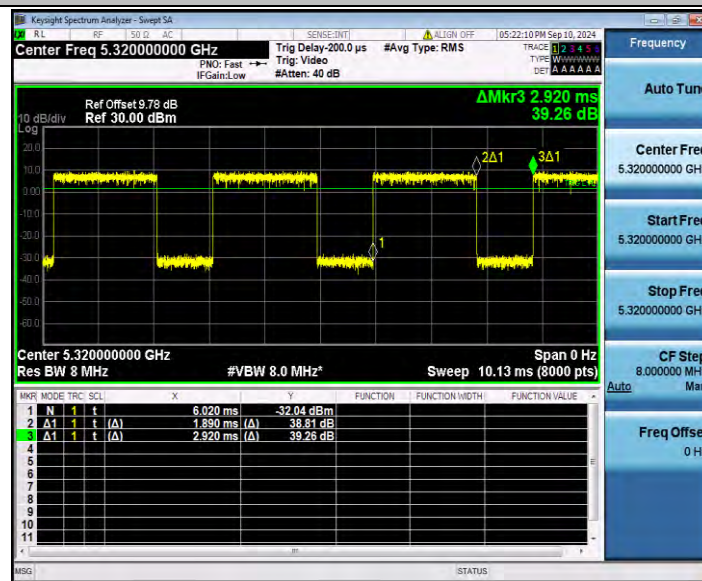
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5260	2.03	3.06	66.34	1.78	0.49
		5280	2.03	3.05	66.56	1.77	0.49
		5320	2.04	3.06	66.67	1.76	0.49
11N20SISO	Ant1	5260	1.89	2.91	64.95	1.87	0.53
		5280	1.89	2.94	64.29	1.92	0.53
		5320	1.89	2.92	64.73	1.89	0.53
11N40SISO	Ant1	5270	0.93	1.95	47.69	3.22	1.08
		5310	0.93	2.20	42.27	3.74	1.08
11AC20SISO	Ant1	5260	1.90	2.92	65.07	1.87	0.53
		5280	1.90	2.97	63.97	1.94	0.53
		5320	1.90	2.92	65.07	1.87	0.53
11AC40SISO	Ant1	5270	0.94	1.96	47.96	3.19	1.06
		5310	0.94	1.96	47.96	3.19	1.06
11AC80SISO	Ant1	5290	0.46	1.93	23.83	6.23	2.17
11AX20SISO	Ant1	5260	1.45	2.48	58.47	2.33	0.69
		5280	1.46	2.48	58.87	2.30	0.68
		5320	1.46	2.48	58.87	2.30	0.68
11AX40SISO	Ant1	5270	0.76	1.78	42.70	3.70	1.32
		5310	0.76	1.78	42.70	3.70	1.32
11AX80SISO	Ant1	5290	0.39	1.41	27.66	5.58	2.56

Test Graphs

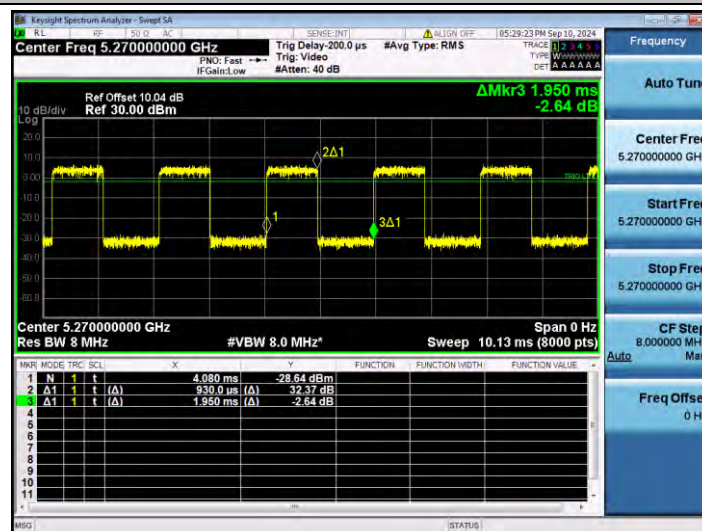




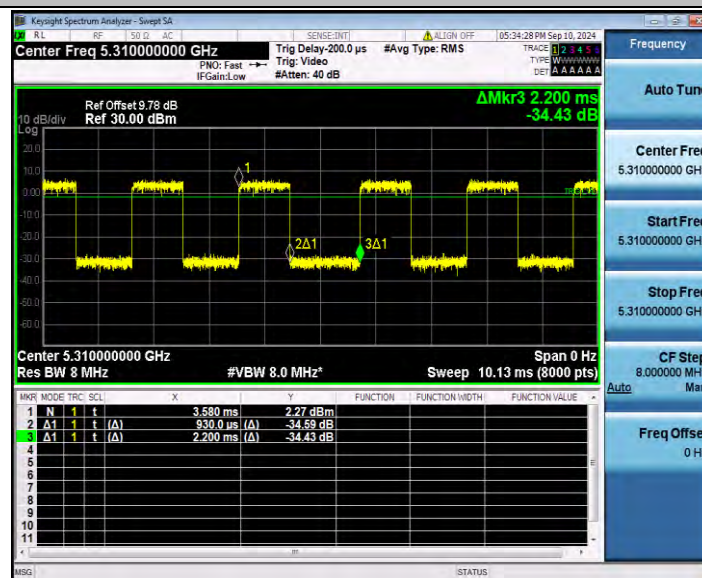
11N20SISO_Ant1_5320



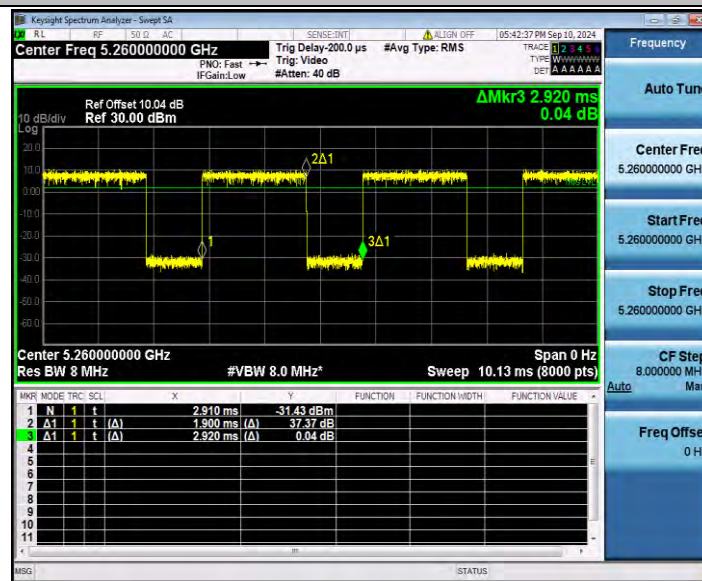
11N40SISO_Ant1_5270



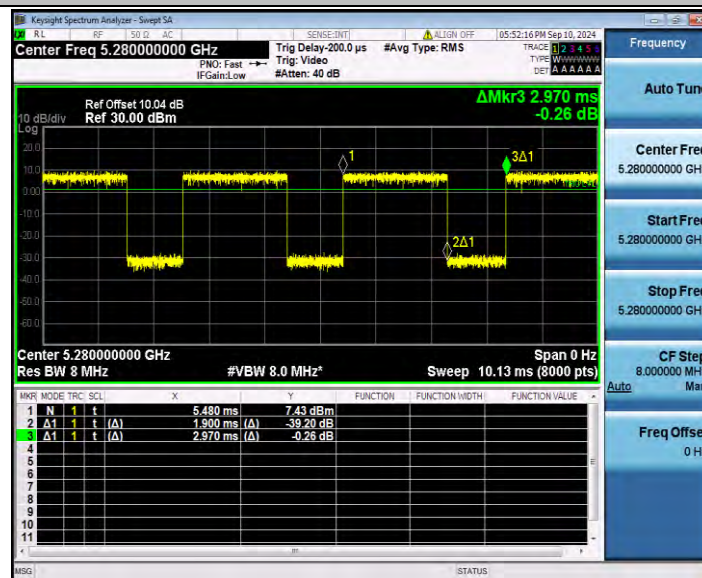
11N40SISO_Ant1_5310



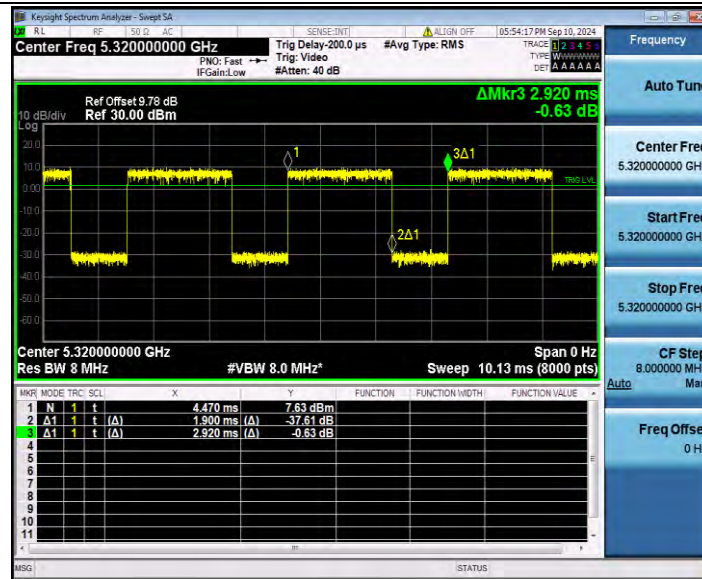
11AC20SISO_Ant1_5260



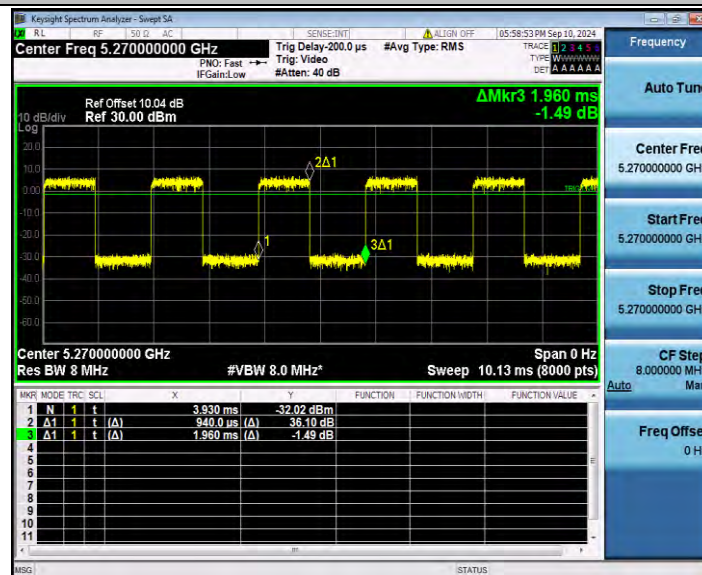
11AC20SISO_Ant1_5280



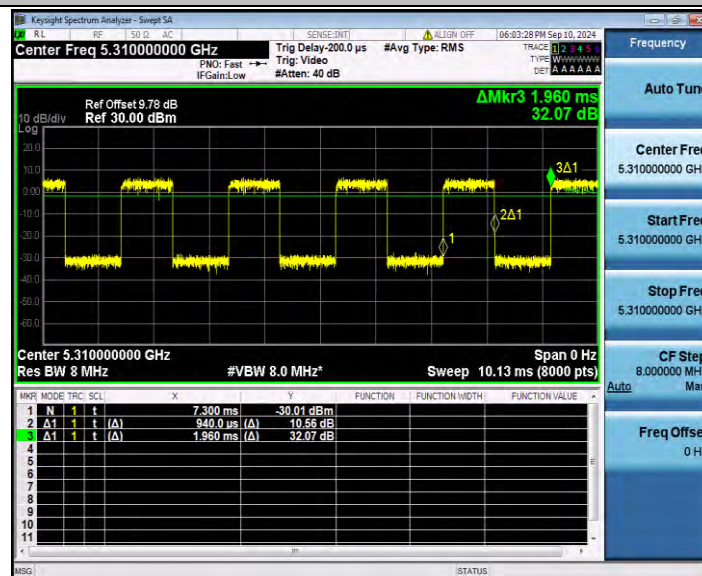
11AC20SISO_Ant1_5320



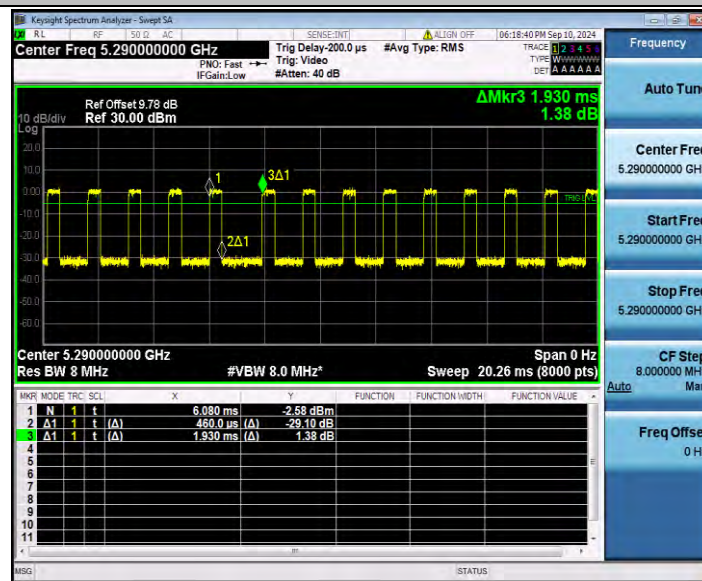
11AC40SISO_Ant1_5270



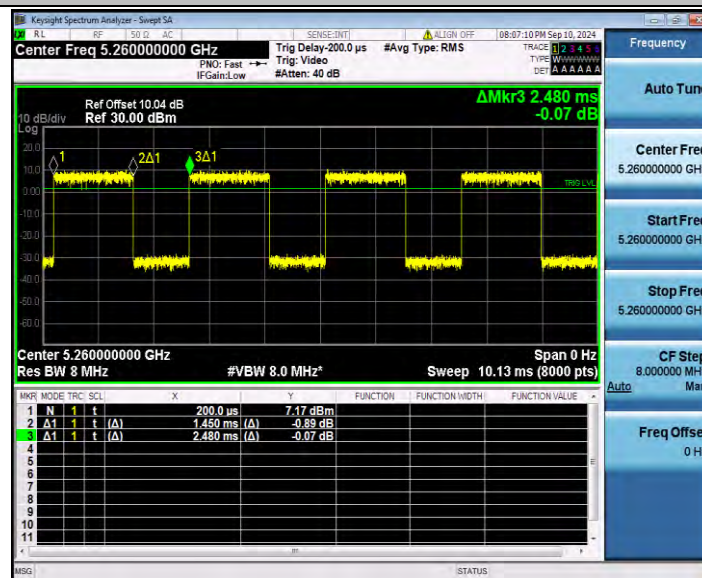
11AC40SISO_Ant1_5310



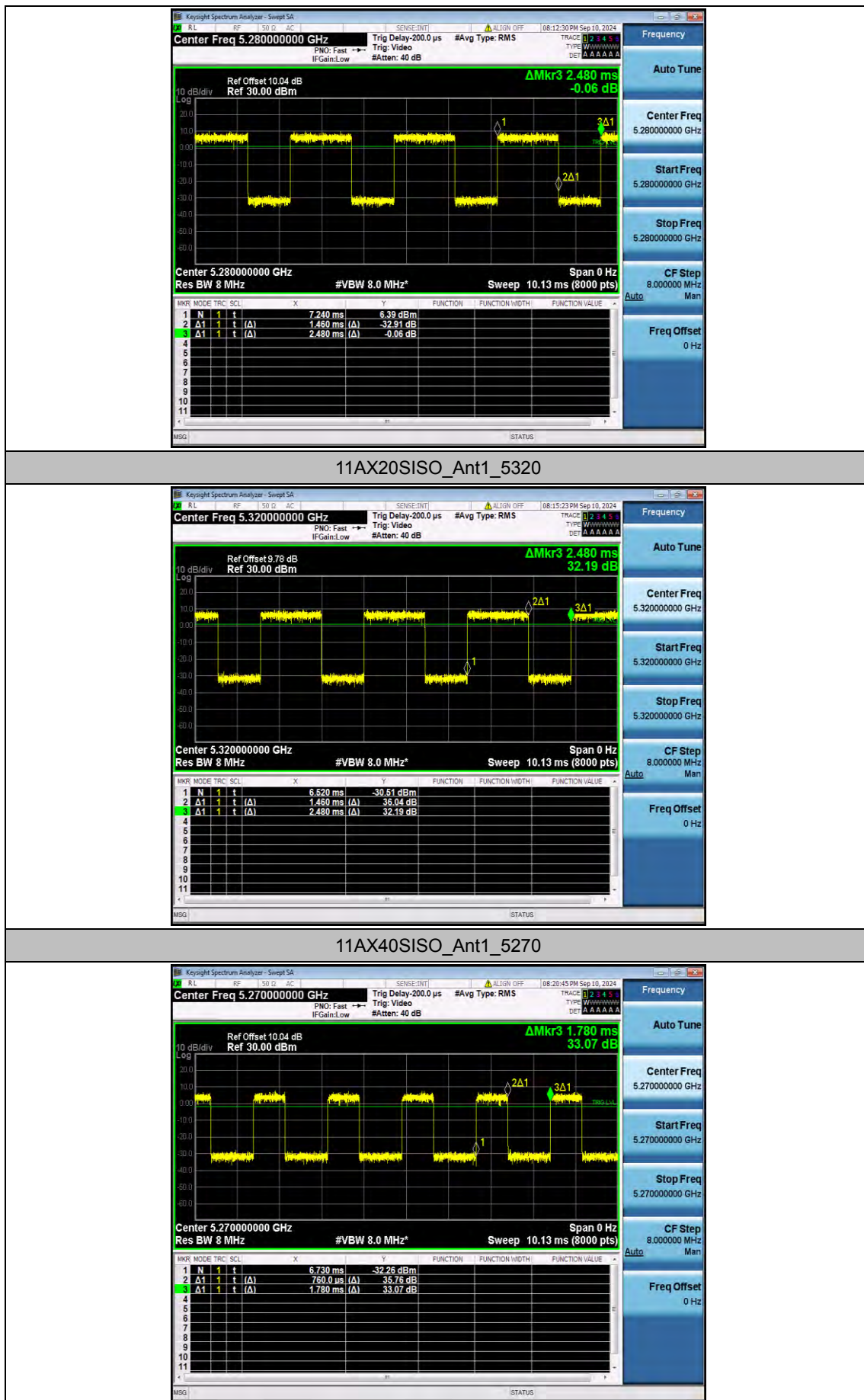
11AC80SISO_Ant1_5290



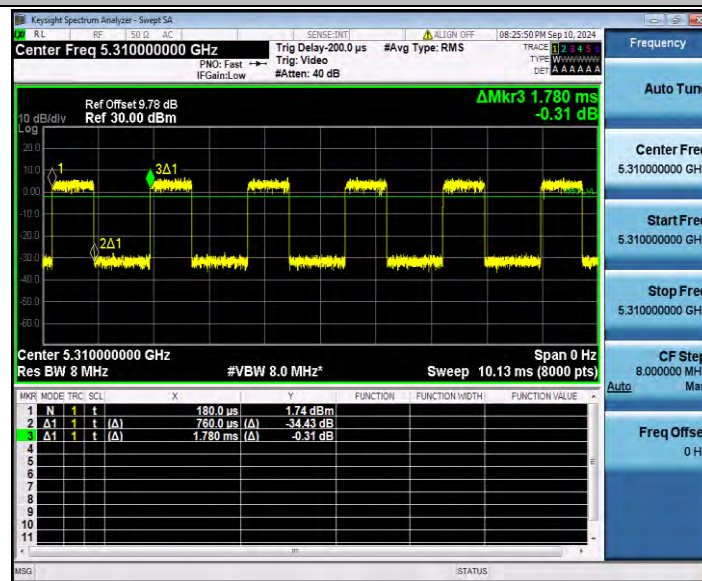
11AX20SISO_Ant1_5260



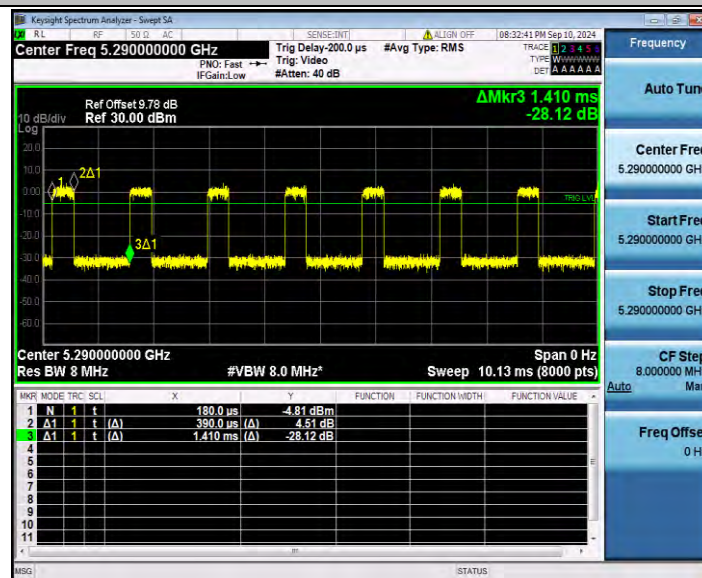
11AX20SISO_Ant1_5280



11AX40SISO_Ant1_5310



11AX80SISO_Ant1_5290



Appendix E.4: 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	5260	9.08	66.34	1.78	10.86	≤23.98	PASS
		5280	8.28	66.56	1.77	10.05	≤23.98	PASS
		5320	8.43	66.67	1.76	10.19	≤23.98	PASS
11N20SISO	Ant1	5260	8.13	64.95	1.87	10.00	≤23.98	PASS
		5280	8.04	64.29	1.92	9.96	≤23.98	PASS
		5320	8.28	64.73	1.89	10.17	≤23.98	PASS
11N40SISO	Ant1	5270	6.75	47.69	3.22	9.97	≤23.98	PASS
		5310	6.66	42.27	3.74	10.40	≤23.98	PASS
11AC20SISO	Ant1	5260	8.61	65.07	1.87	10.48	≤23.98	PASS
		5280	8.38	63.97	1.94	10.32	≤23.98	PASS
		5320	8.26	65.07	1.87	10.13	≤23.98	PASS
11AC40SISO	Ant1	5270	7.51	47.96	3.19	10.70	≤23.98	PASS
		5310	6.24	47.96	3.19	9.43	≤23.98	PASS
11AC80SISO	Ant1	5290	4.80	23.83	6.23	11.03	≤23.98	PASS
11AX20SISO	Ant1	5260	7.99	58.47	2.33	10.32	≤23.98	PASS
		5280	7.80	58.87	2.30	10.10	≤23.98	PASS
		5320	7.71	58.87	2.30	10.01	≤23.98	PASS
11AX40SISO	Ant1	5270	6.57	42.70	3.70	10.27	≤23.98	PASS
		5310	5.91	42.70	3.70	9.61	≤23.98	PASS
11AX80SISO	Ant1	5290	3.80	27.66	5.58	9.38	≤23.98	PASS

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5260	1.29	≤11.00	PASS
		5280	0.52	≤11.00	PASS
		5320	0.68	≤11.00	PASS
11N20SISO	Ant1	5260	0.96	≤11.00	PASS
		5280	0.34	≤11.00	PASS
		5320	0.43	≤11.00	PASS
11N40SISO	Ant1	5270	-1.33	≤11.00	PASS
		5310	-1.09	≤11.00	PASS
11AC20SISO	Ant1	5260	1.02	≤11.00	PASS
		5280	0.48	≤11.00	PASS
		5320	0.65	≤11.00	PASS
11AC40SISO	Ant1	5270	-1.22	≤11.00	PASS
		5310	-1.49	≤11.00	PASS
11AC80SISO	Ant1	5290	-4.90	≤11.00	PASS
11AX20SISO	Ant1	5260	0.92	≤11.00	PASS
		5280	0.26	≤11.00	PASS
		5320	0.32	≤11.00	PASS
11AX40SISO	Ant1	5270	-2.06	≤11.00	PASS
		5310	-2.52	≤11.00	PASS
11AX80SISO	Ant1	5290	-6.61	≤11.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

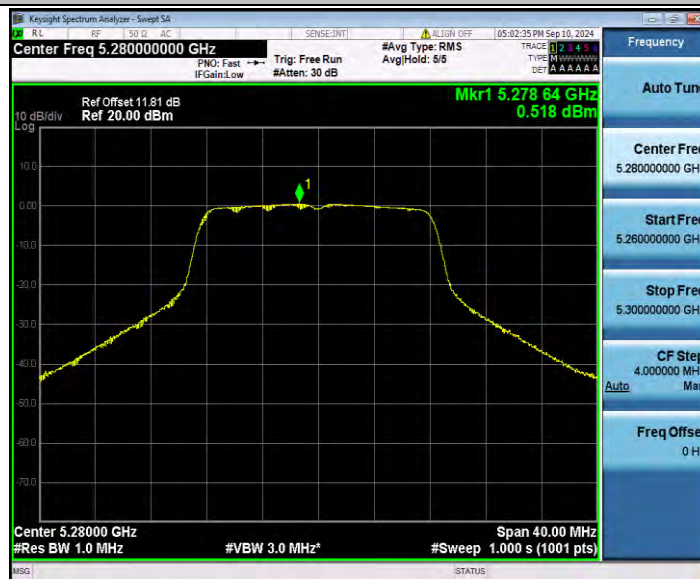
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

11A_Ant1_5260



11A_Ant1_5280



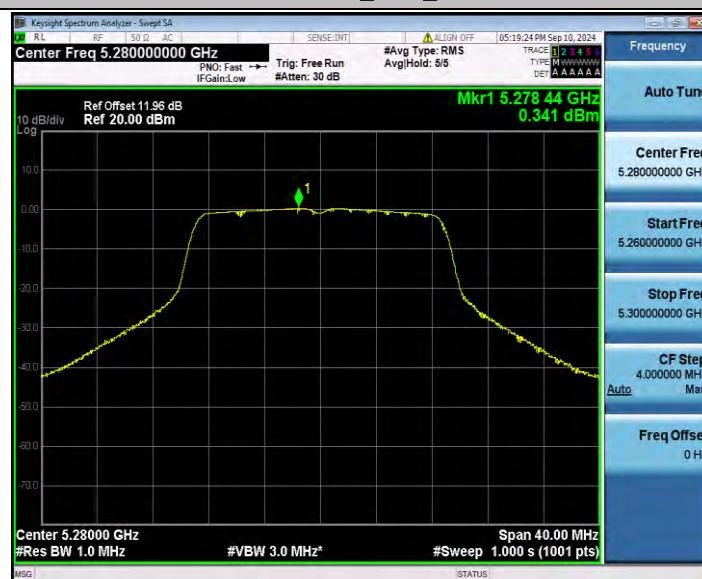
11A_Ant1_5320



11N20SISO_Ant1_5260



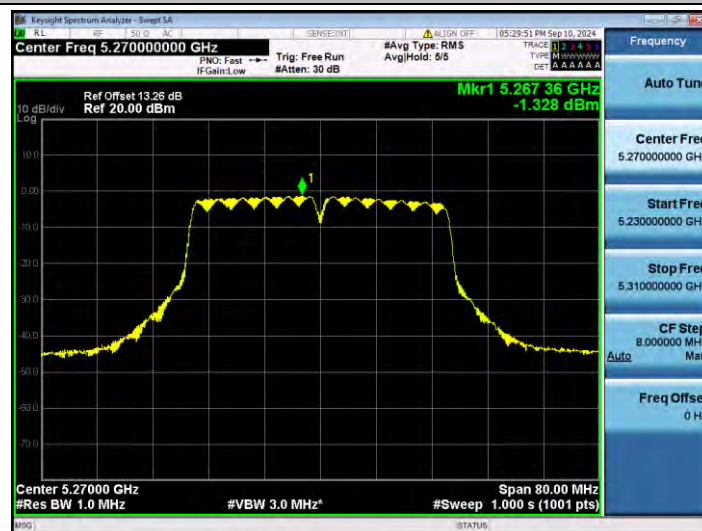
11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290



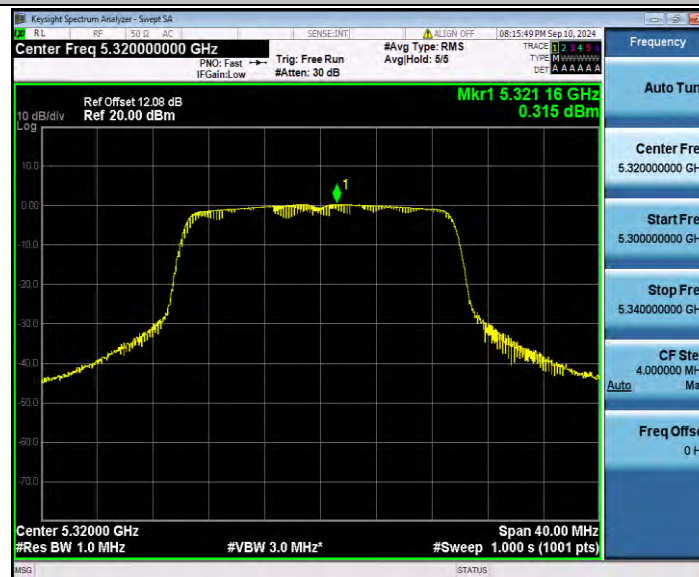
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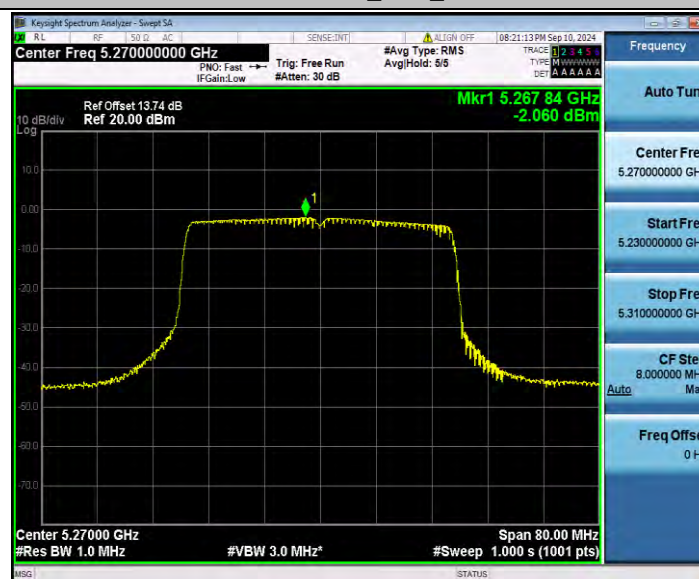
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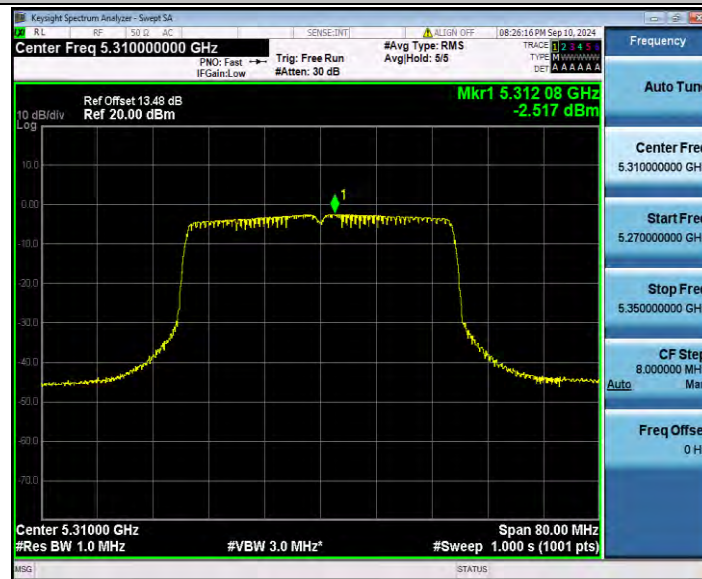
11AX20SISO_Ant1_5320



11AX40SISO_Ant1_5270



11AX40SISO_Ant1_5310



11AX80SISO_Ant1_5290

