

Case No. : <u>CTA24102501804</u>	
Ambient Condition: <u>23</u> °C, <u>52</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.10.16</u>	Test Engineer: <u>Evan ouyang</u>

Appendix D.1: Emission Bandwidth

Test Result

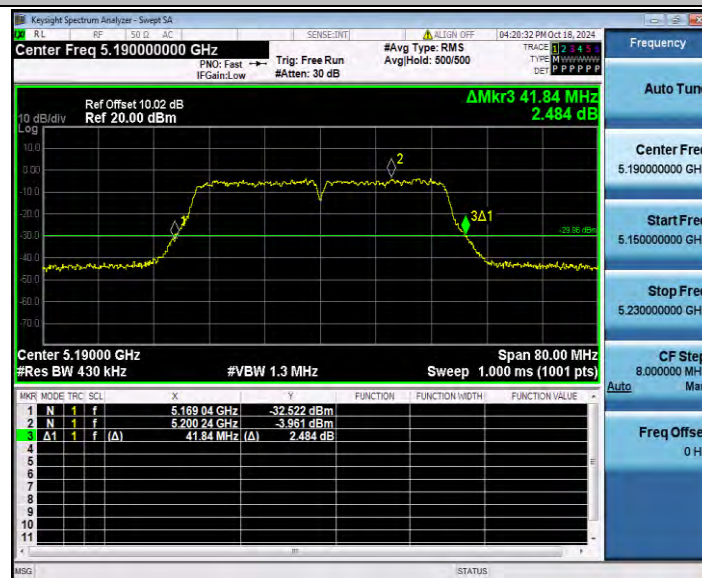
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.320	5169.760	5190.080	---	---
		5200	20.320	5189.760	5210.080	---	---
		5240	20.400	5229.680	5250.080	---	---
11N20SISO	Ant1	5180	21.280	5169.320	5190.600	---	---
		5200	21.280	5189.240	5210.520	---	---
		5240	21.040	5229.440	5250.480	---	---
11N40SISO	Ant1	5190	41.840	5169.040	5210.880	---	---
		5230	42.000	5208.960	5250.960	---	---
11AC20SISO	Ant1	5180	21.240	5169.320	5190.560	---	---
		5200	21.160	5189.400	5210.560	---	---
		5240	21.160	5229.480	5250.640	---	---
11AC40SISO	Ant1	5190	41.840	5168.960	5210.800	---	---
		5230	41.920	5208.880	5250.800	---	---
11AC80SISO	Ant1	5210	81.760	5169.680	5251.440	---	---



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



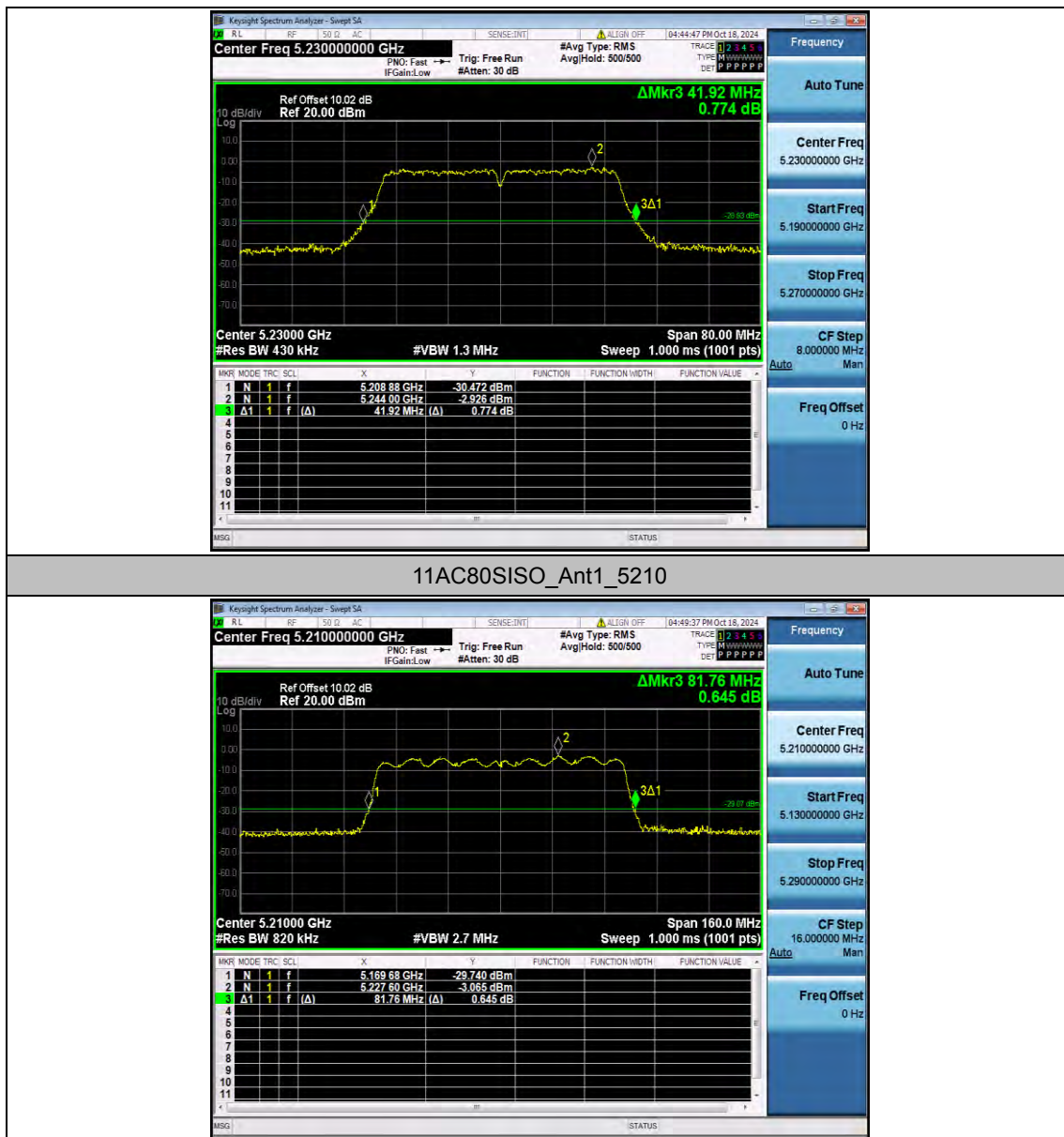
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

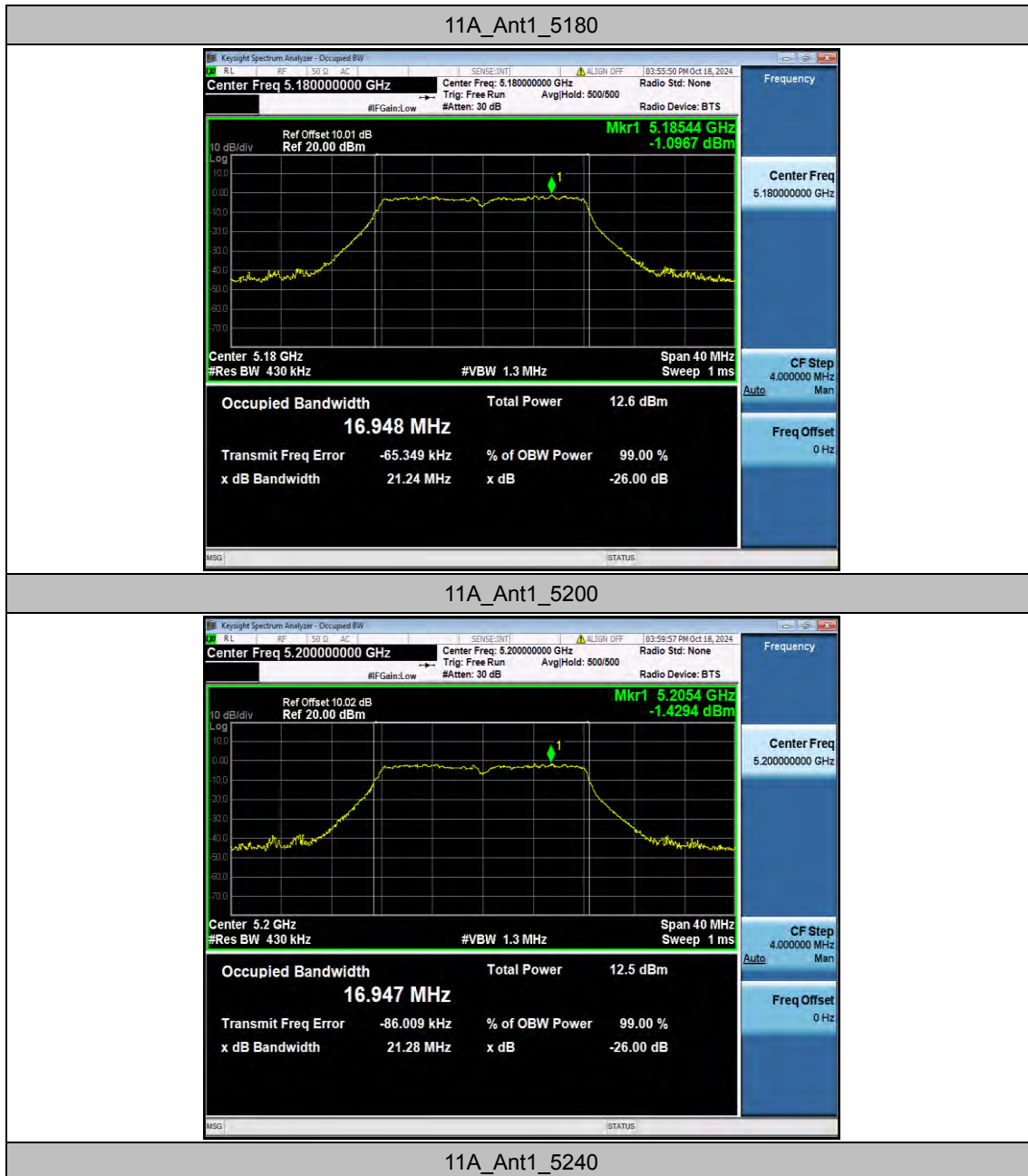


Appendix D.2: Occupied channel bandwidth

Test Result

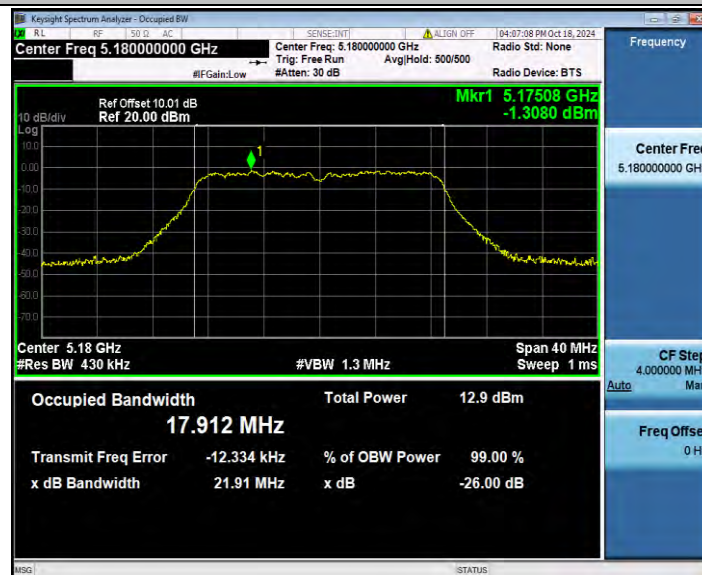
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.948	5171.4607	5188.4087	---	---
		5200	16.947	5191.4405	5208.3875	---	---
		5240	16.956	5231.4479	5248.4039	---	---
11N20SISO	Ant1	5180	17.912	5171.0317	5188.9437	---	---
		5200	17.915	5191.0134	5208.9284	---	---
		5240	17.915	5231.0325	5248.9475	---	---
11N40SISO	Ant1	5190	36.483	5171.8623	5208.3453	---	---
		5230	36.573	5211.8021	5248.3751	---	---
11AC20SISO	Ant1	5180	17.928	5171.0526	5188.9806	---	---
		5200	17.941	5191.0149	5208.9559	---	---
		5240	17.952	5231.0280	5248.9800	---	---
11AC40SISO	Ant1	5190	36.487	5171.8388	5208.3258	---	---
		5230	36.590	5211.7578	5248.3478	---	---
11AC80SISO	Ant1	5210	75.395	5172.5294	5247.9244	---	---

Test Graphs

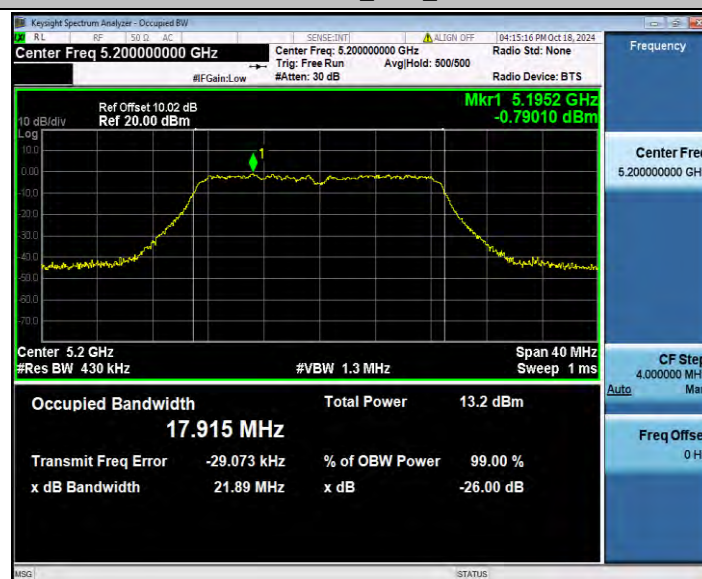




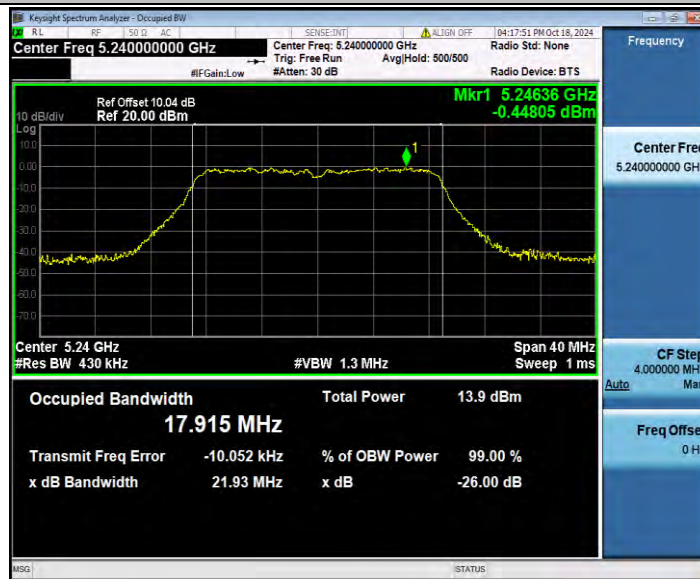
11N20SISO_Ant1_5180



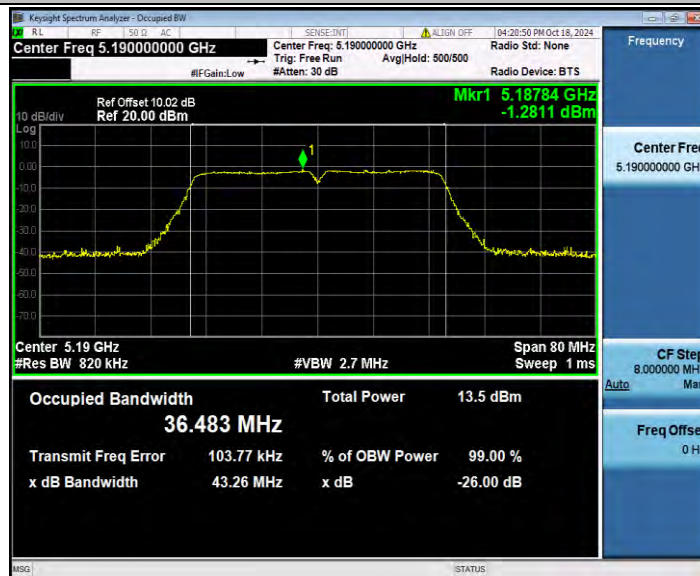
11N20SISO_Ant1_5200



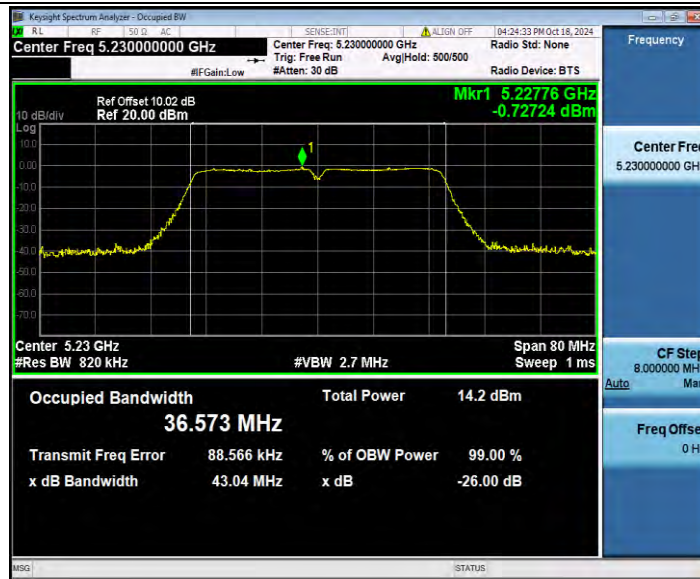
11N20SISO_Ant1_5240



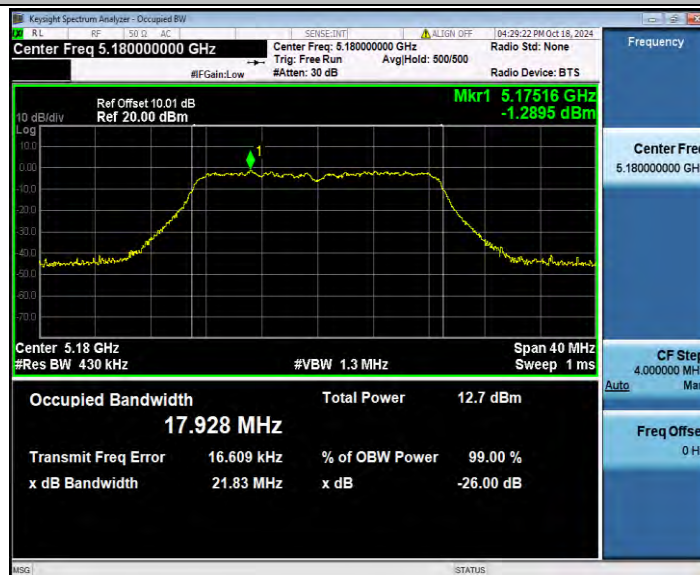
11N40SISO_Ant1_5190



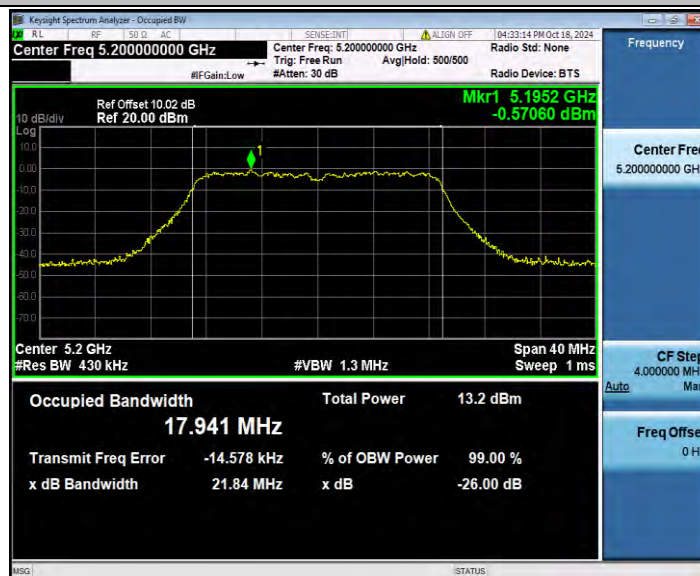
11N40SISO_Ant1_5230



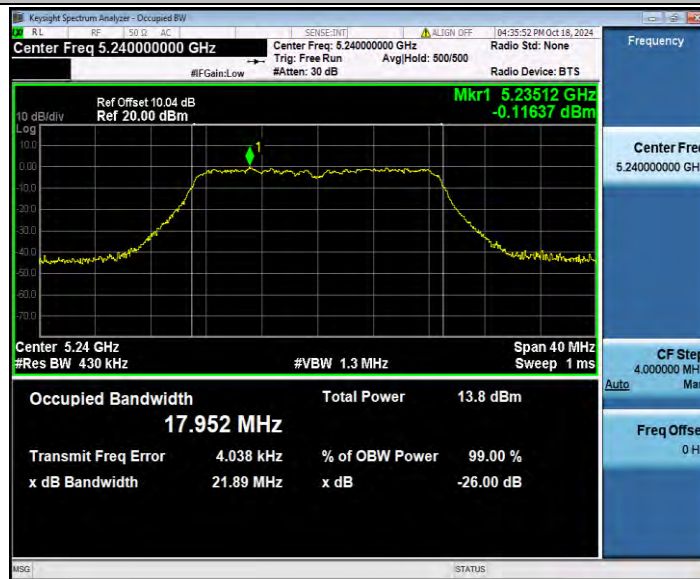
11AC20SISO_Ant1_5180



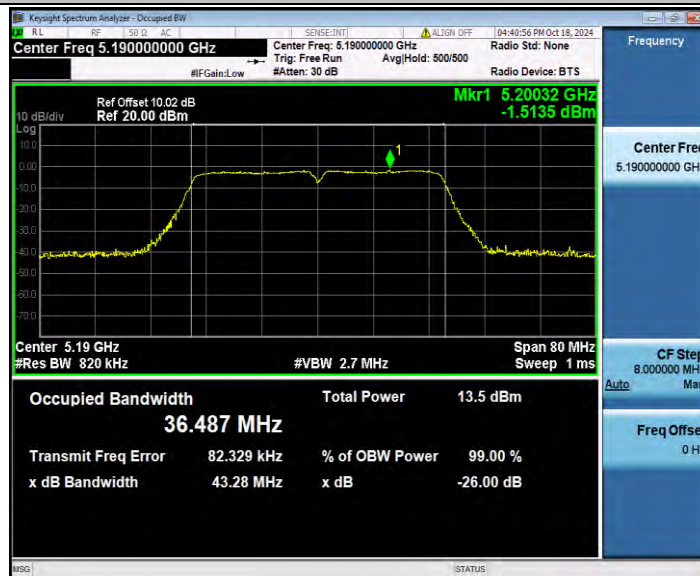
11AC20SISO_Ant1_5200



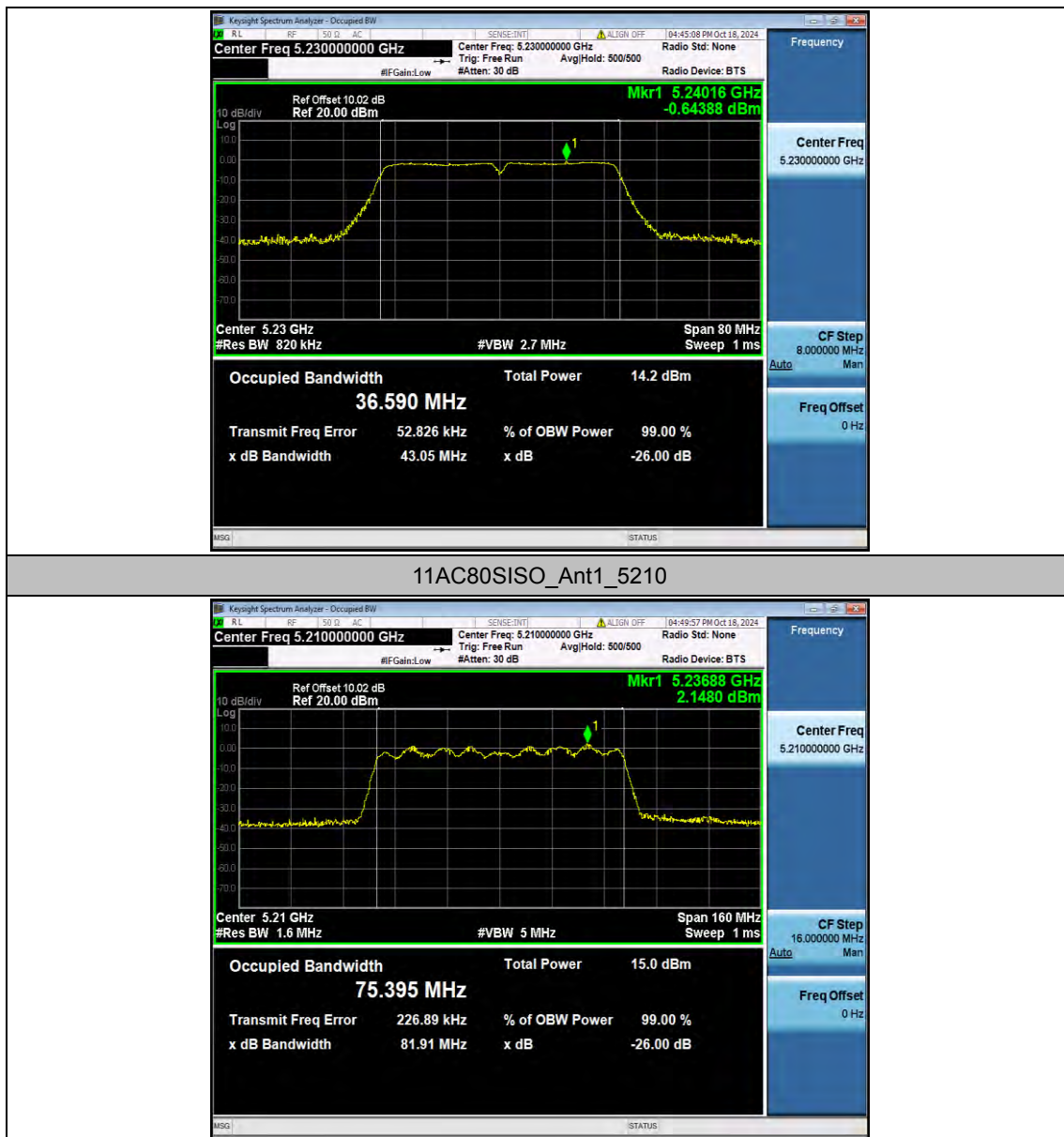
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



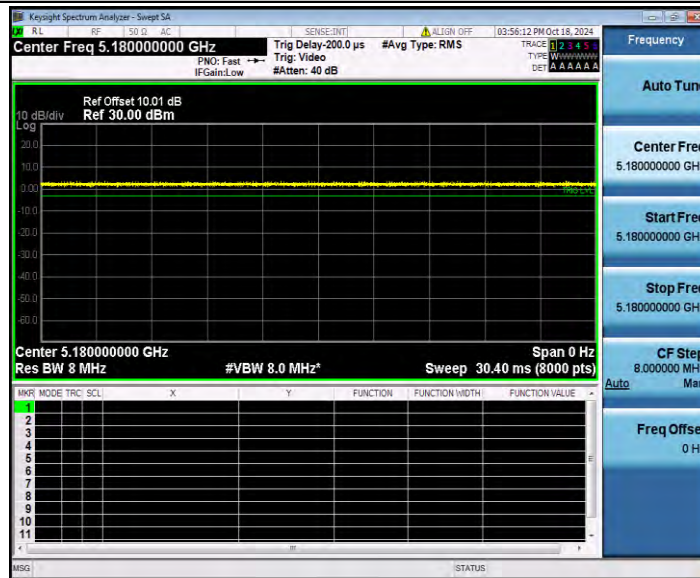
Appendix D.3: Duty Cycle

Test Result

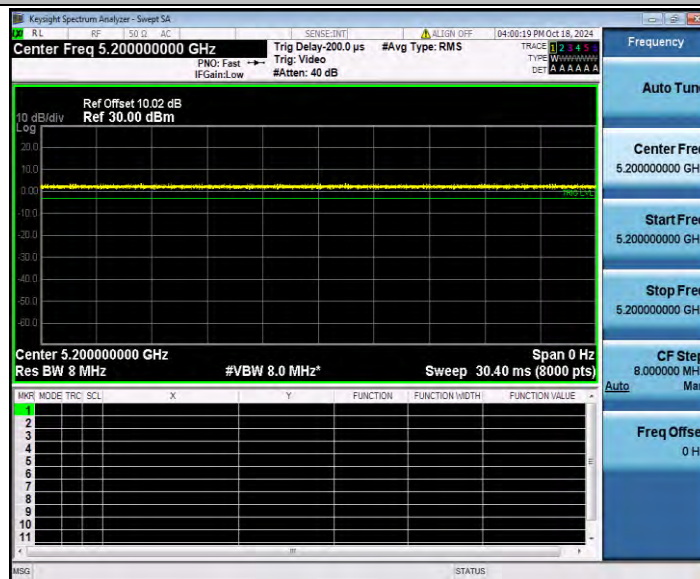
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200	30.00	30.00	100.00	0.00	0.03
		5240	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200	30.00	30.00	100.00	0.00	0.03
		5240	30.00	30.00	100.00	0.00	0.03
11N40SISO	Ant1	5190	30.00	30.00	100.00	0.00	0.03
		5230	30.00	30.00	100.00	0.00	0.03
11AC20SISO	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200	30.00	30.00	100.00	0.00	0.03
		5240	30.00	30.00	100.00	0.00	0.03
11AC40SISO	Ant1	5190	30.00	30.00	100.00	0.00	0.03
		5230	30.00	30.00	100.00	0.00	0.03
11AC80SISO	Ant1	5210	30.00	30.00	100.00	0.00	0.03

Test Graphs

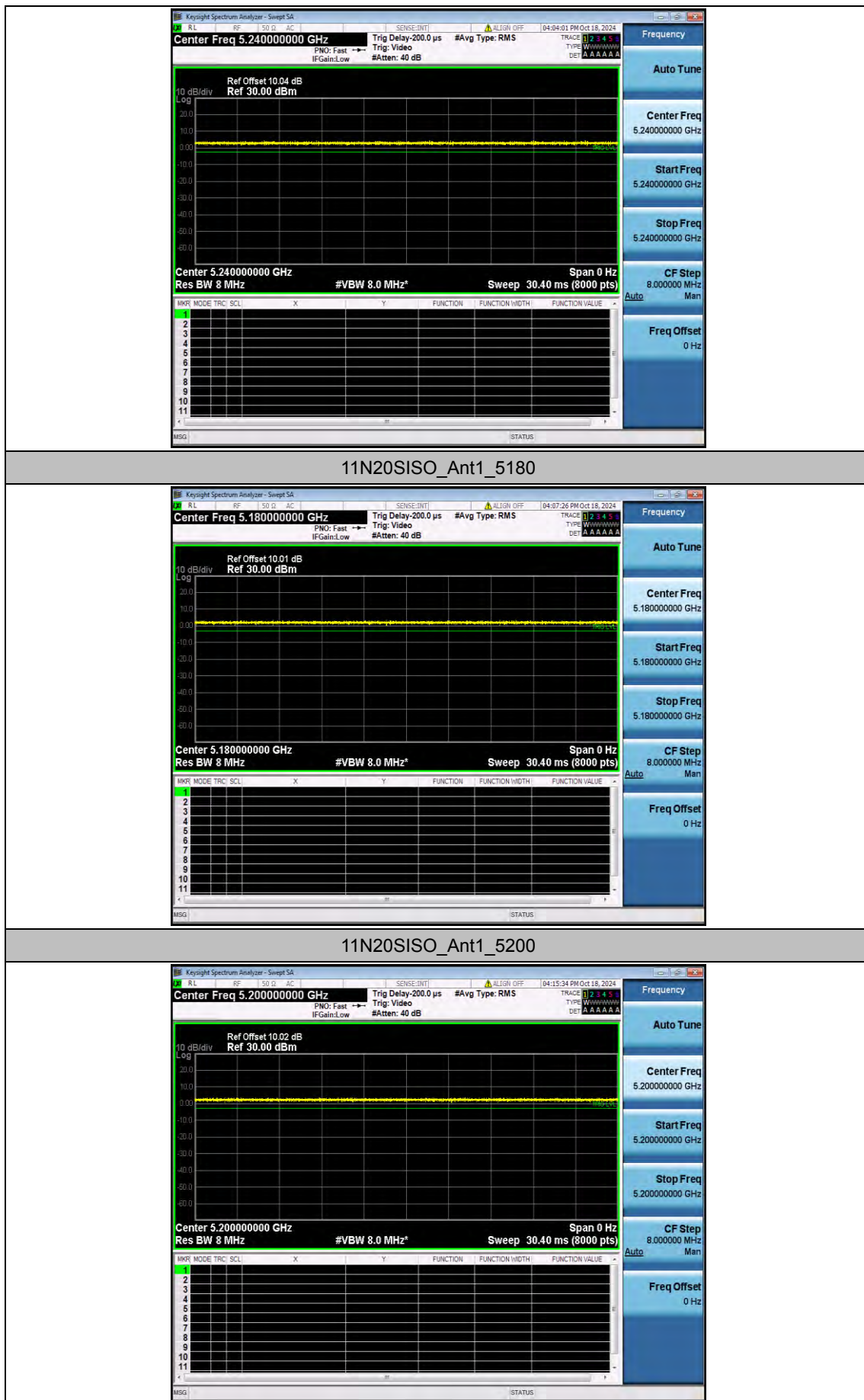
11A_Ant1_5180



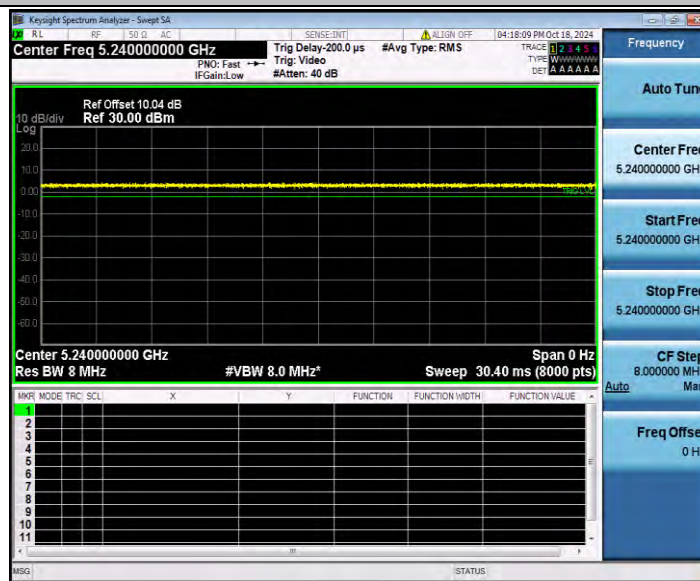
11A_Ant1_5200



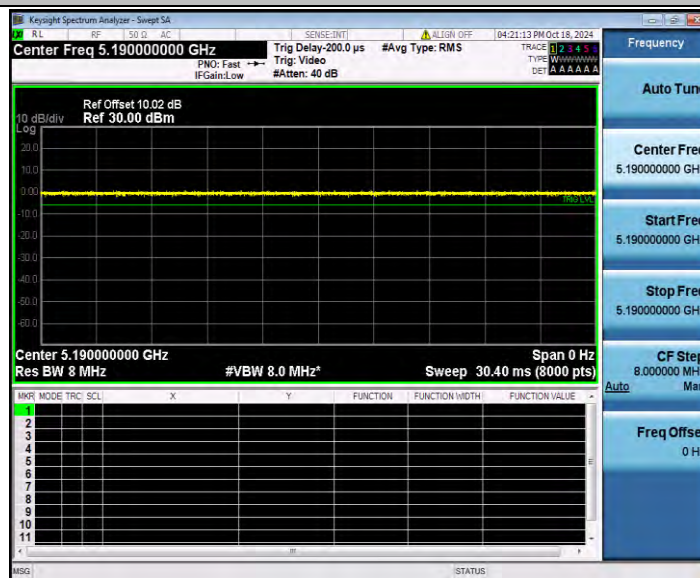
11A_Ant1_5240



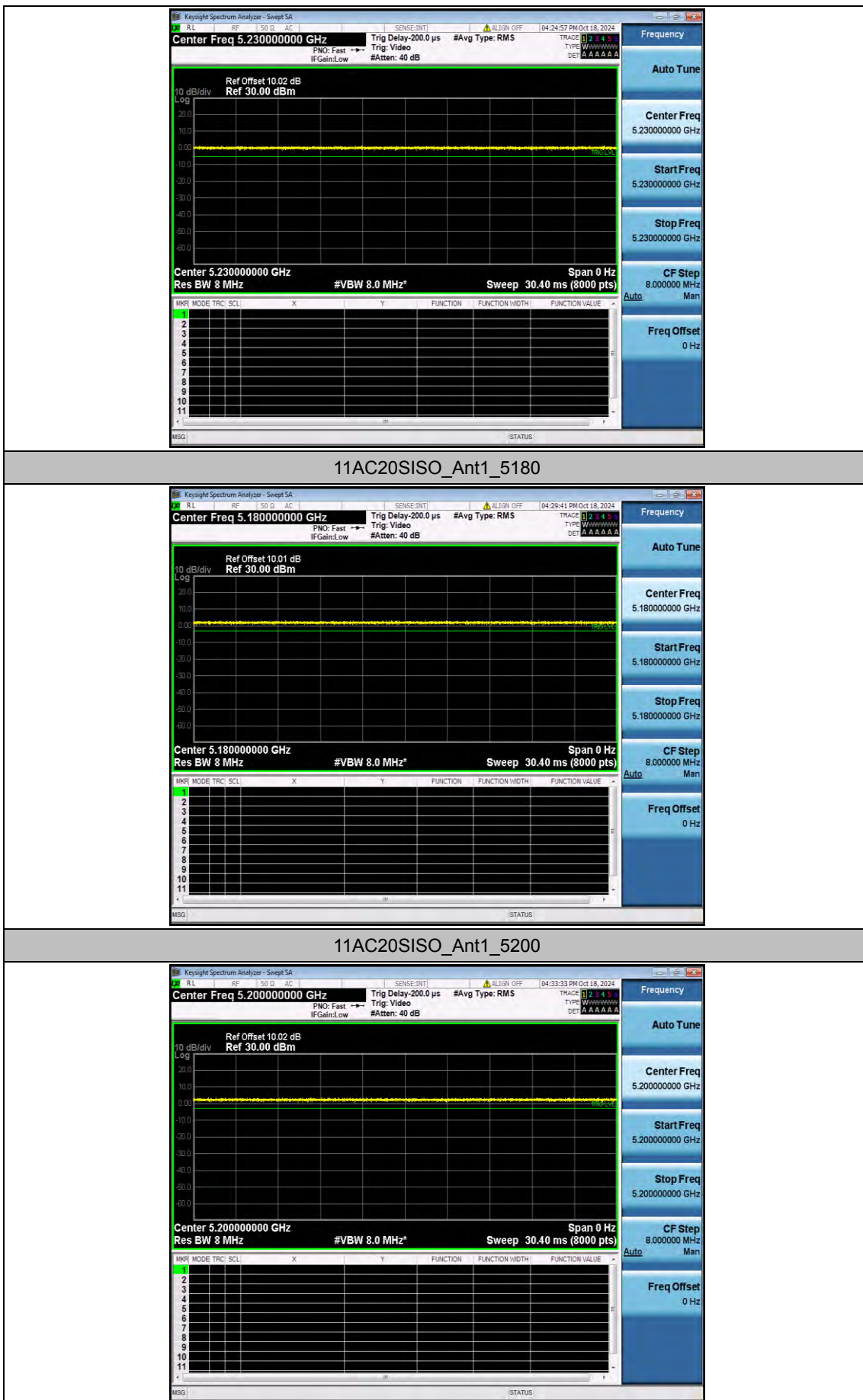
11N20SISO_Ant1_5240



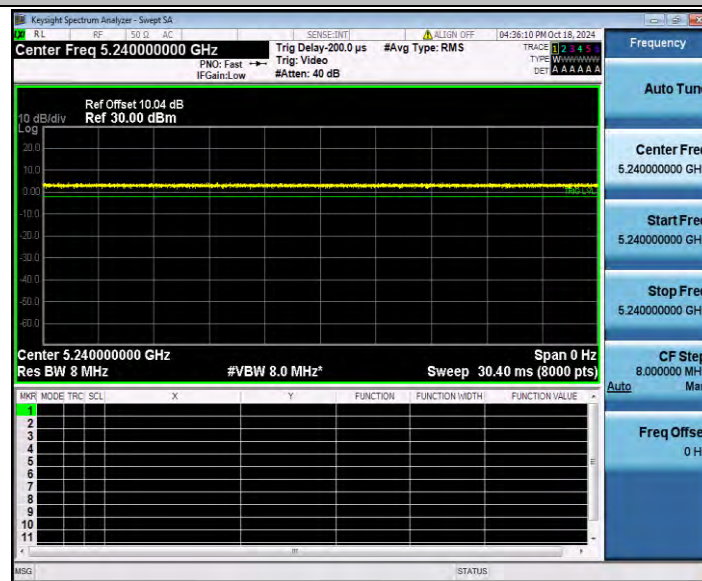
11N40SISO_Ant1_5190



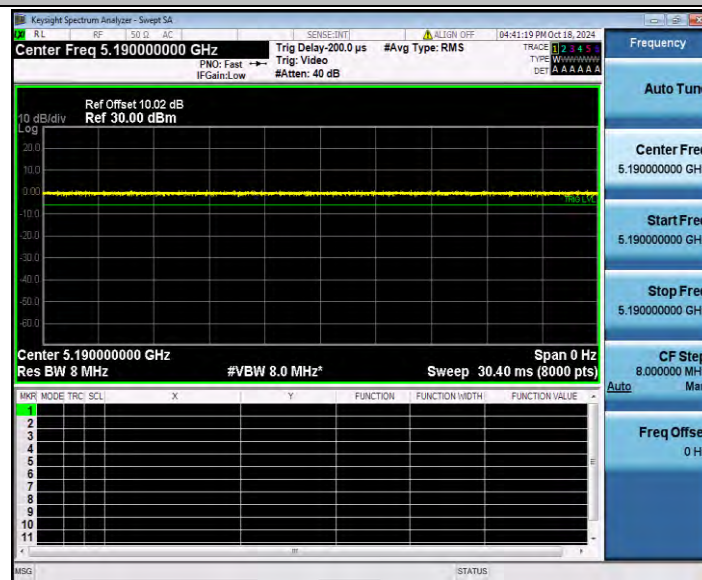
11N40SISO_Ant1_5230



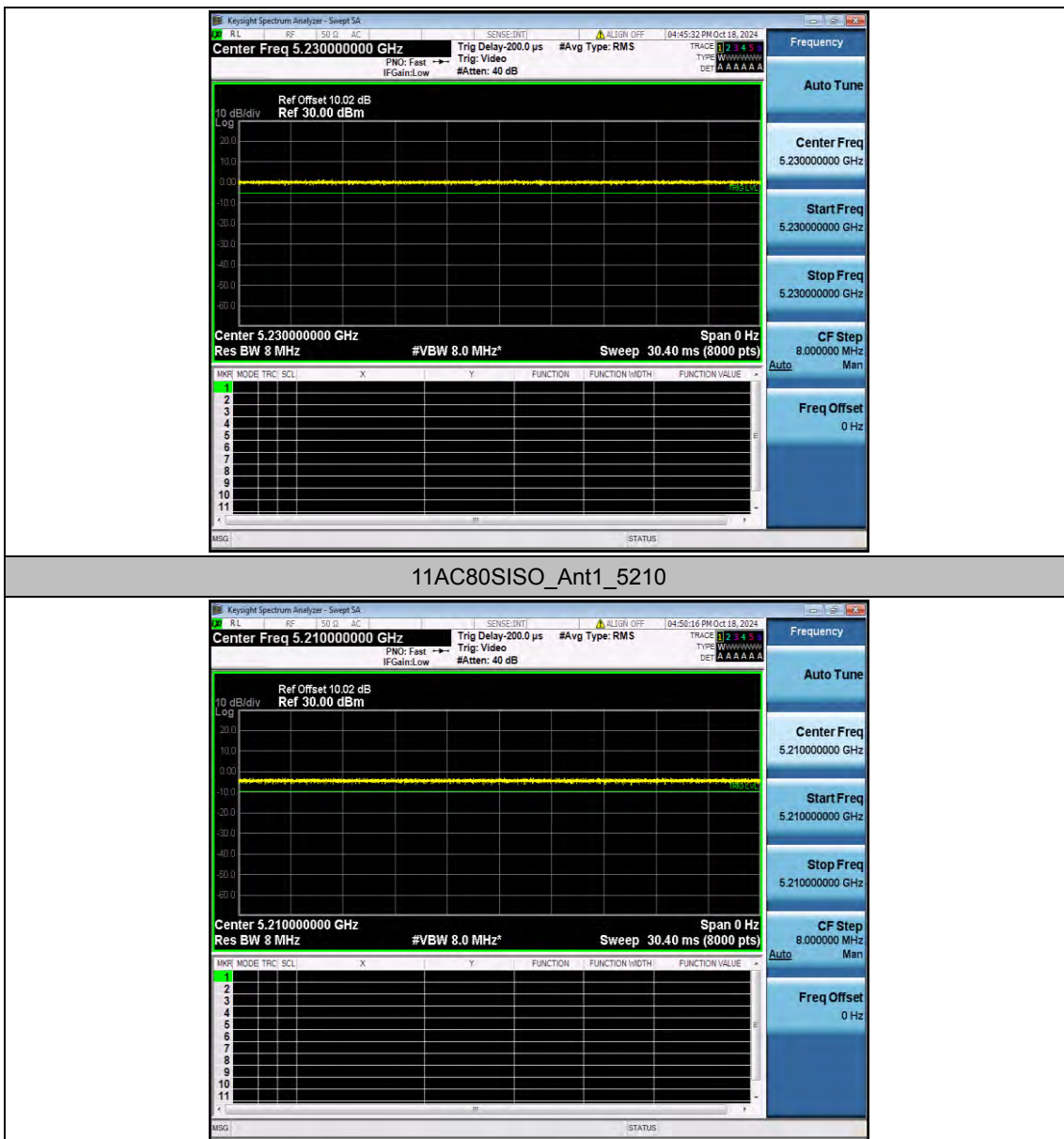
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



Appendix D.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	5180	6.08	100.00	0.00	6.08	≤23.98	PASS
		5200	5.95	100.00	0.00	5.95	≤23.98	PASS
		5240	6.50	100.00	0.00	6.50	≤23.98	PASS
11N20SISO	Ant1	5180	6.01	100.00	0.00	6.01	≤23.98	PASS
		5200	6.48	100.00	0.00	6.48	≤23.98	PASS
		5240	7.15	100.00	0.00	7.15	≤23.98	PASS
11N40SISO	Ant1	5190	6.31	100.00	0.00	6.31	≤23.98	PASS
		5230	6.91	100.00	0.00	6.91	≤23.98	PASS
11AC20SISO	Ant1	5180	6.03	100.00	0.00	6.03	≤23.98	PASS
		5200	6.48	100.00	0.00	6.48	≤23.98	PASS
		5240	7.07	100.00	0.00	7.07	≤23.98	PASS
11AC40SISO	Ant1	5190	6.26	100.00	0.00	6.26	≤23.98	PASS
		5230	6.93	100.00	0.00	6.93	≤23.98	PASS
11AC80SISO	Ant1	5210	6.10	100.00	0.00	6.10	≤23.98	PASS

Note:

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

Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-5.42	≤11.00	PASS
		5200	-5.68	≤11.00	PASS
		5240	-4.88	≤11.00	PASS
11N20SISO	Ant1	5180	-5.72	≤11.00	PASS
		5200	-5.39	≤11.00	PASS
		5240	-4.62	≤11.00	PASS
11N40SISO	Ant1	5190	-8.41	≤11.00	PASS
		5230	-7.64	≤11.00	PASS
11AC20SISO	Ant1	5180	-5.69	≤11.00	PASS
		5200	-5.38	≤11.00	PASS
		5240	-4.65	≤11.00	PASS
11AC40SISO	Ant1	5190	-8.43	≤11.00	PASS
		5230	-7.64	≤11.00	PASS
11AC80SISO	Ant1	5210	-9.94	≤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_5180



11A_Ant1_5200



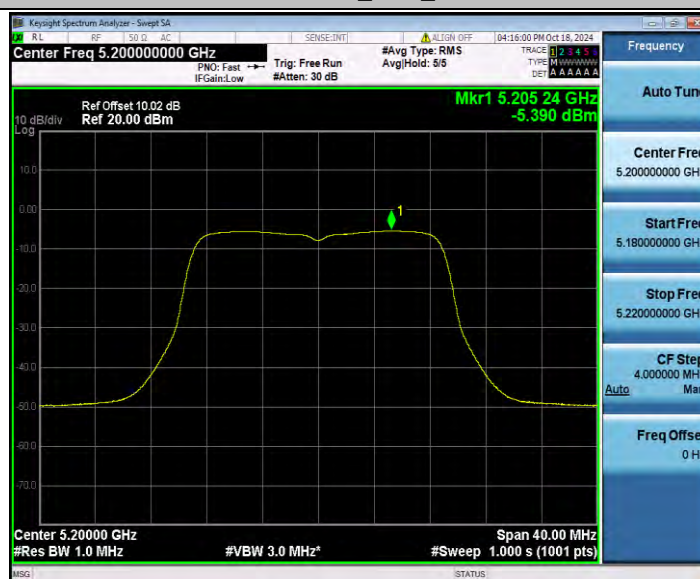
11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



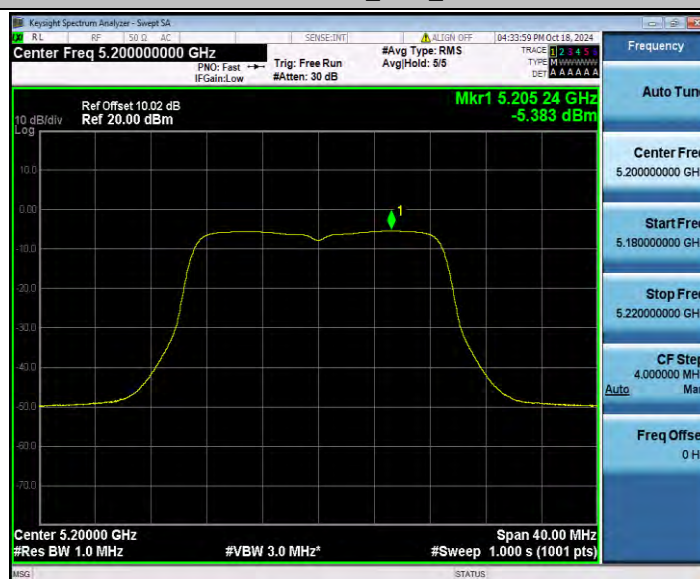
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

