

Case No. : <u>CTA24080500102</u>	
Ambient Condition: <u>22</u> °C, <u>52</u> %RH	
According Standard: <u>■Part15E</u>	
Test Date: <u>2024.8.9</u>	Test Engineer: <u>Lushan Kong</u>

Appendix B.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.240	5169.720	5189.960	---	---
		5200	20.200	5189.760	5209.960	---	---
		5240	20.240	5229.760	5250.000	---	---
11N20SISO	Ant1	5180	20.960	5169.440	5190.400	---	---
		5200	20.960	5189.400	5210.360	---	---
		5240	21.040	5229.360	5250.400	---	---
11N40SISO	Ant1	5190	41.680	5169.040	5210.720	---	---
		5230	41.760	5208.960	5250.720	---	---
11AC20SISO	Ant1	5180	21.040	5169.400	5190.440	---	---
		5200	21.080	5189.320	5210.400	---	---
		5240	20.960	5229.480	5250.440	---	---
11AC40SISO	Ant1	5190	41.840	5169.040	5210.880	---	---
		5230	41.600	5209.040	5250.640	---	---
11AC80SISO	Ant1	5210	81.760	5169.520	5251.280	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



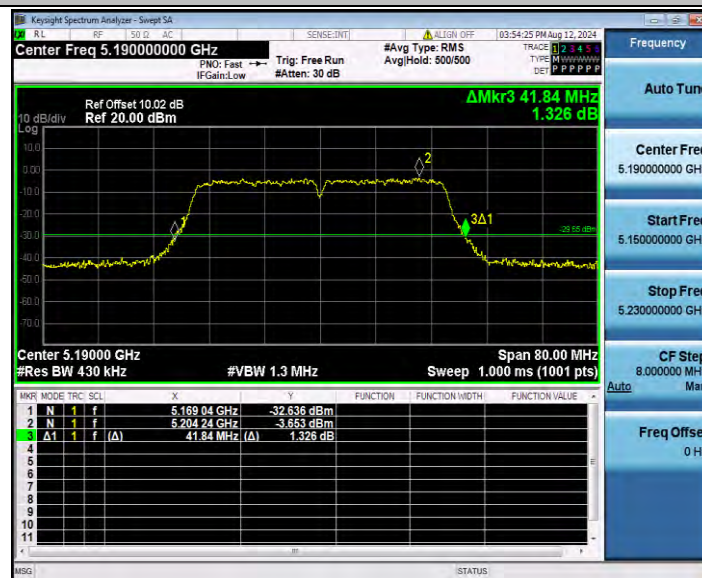
11N40SISO_Ant1_5230



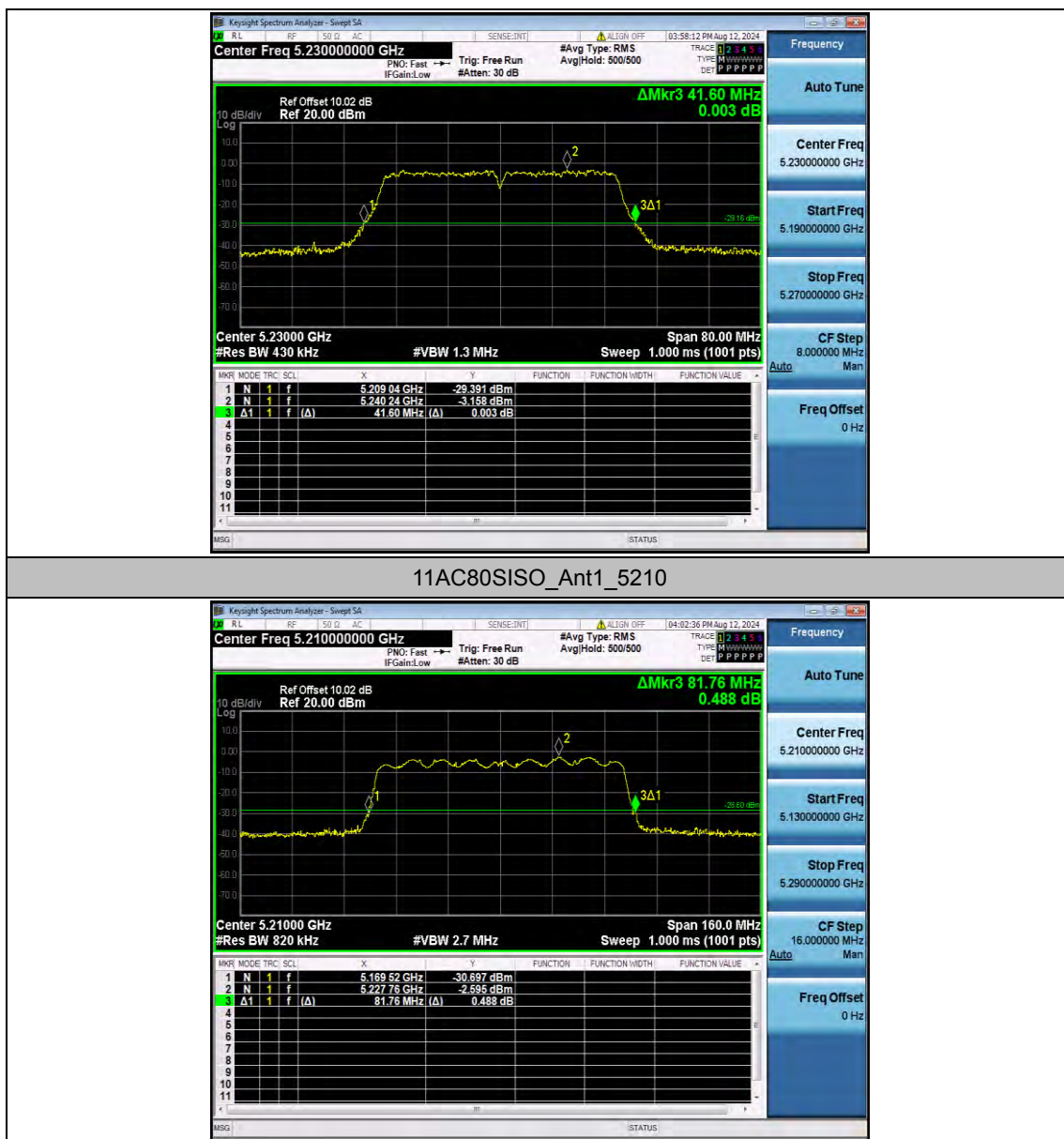
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



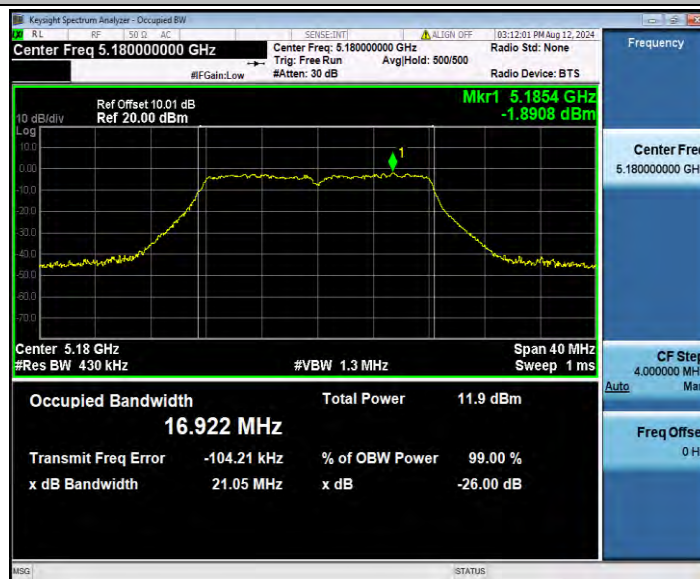
Appendix B.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.922	5171.4348	5188.3568	---	---
		5200	16.895	5191.4575	5208.3525	---	---
		5240	16.896	5231.4515	5248.3475	---	---
11N20SISO	Ant1	5180	17.864	5171.0330	5188.8970	---	---
		5200	17.871	5191.0280	5208.8990	---	---
		5240	17.849	5231.0280	5248.8770	---	---
11N40SISO	Ant1	5190	36.423	5171.8370	5208.2600	---	---
		5230	36.437	5211.7884	5248.2254	---	---
11AC20SISO	Ant1	5180	17.851	5171.0456	5188.8966	---	---
		5200	17.850	5191.0393	5208.8893	---	---
		5240	17.834	5231.0494	5248.8834	---	---
11AC40SISO	Ant1	5190	36.396	5171.8729	5208.2689	---	---
		5230	36.451	5211.8258	5248.2768	---	---
11AC80SISO	Ant1	5210	75.126	5172.6004	5247.7264	---	---

Test Graphs

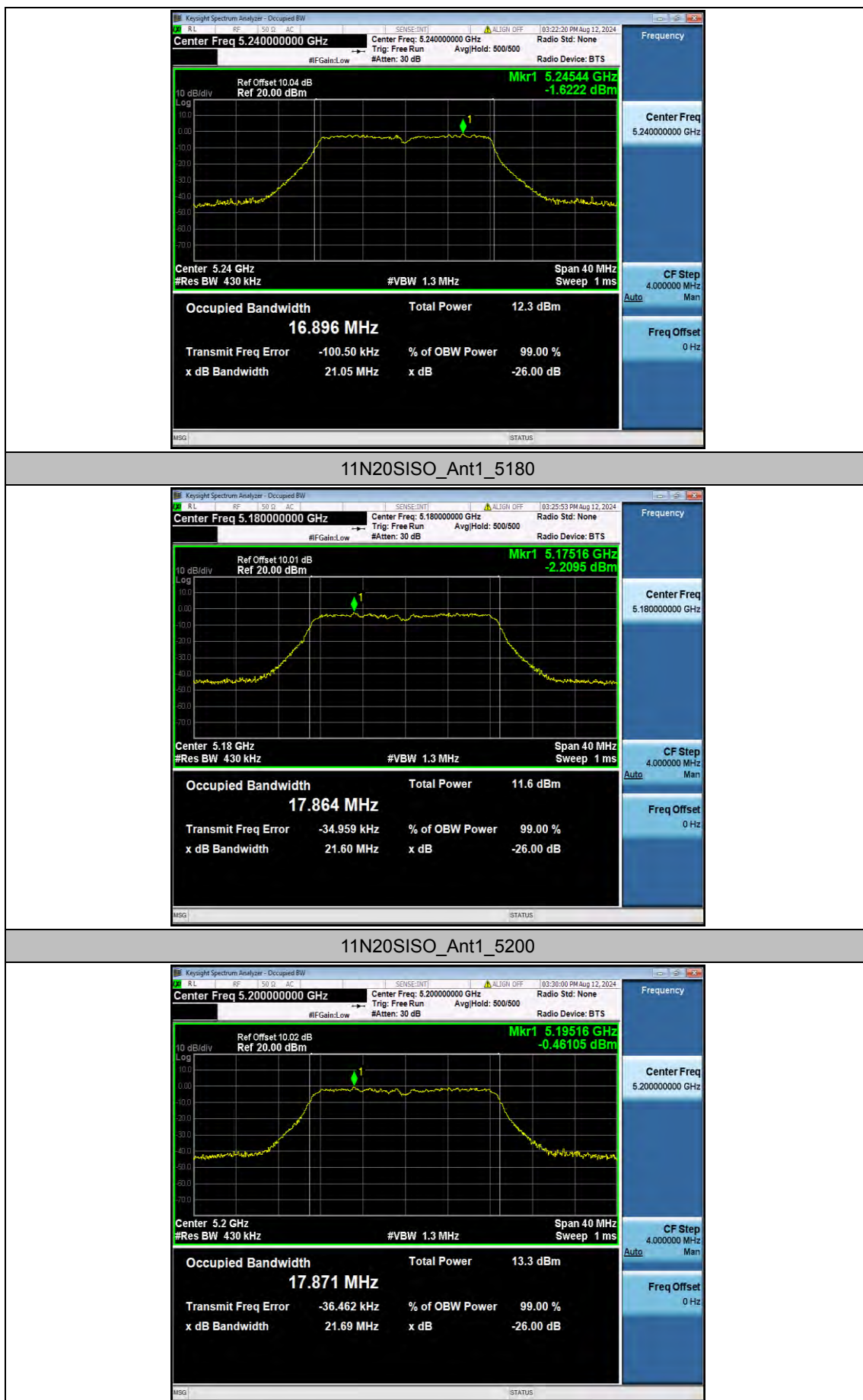
11A_Ant1_5180



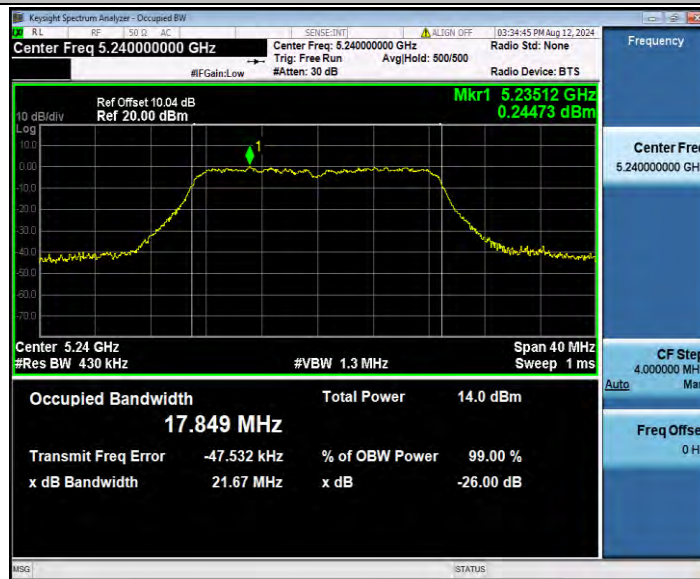
11A_Ant1_5200



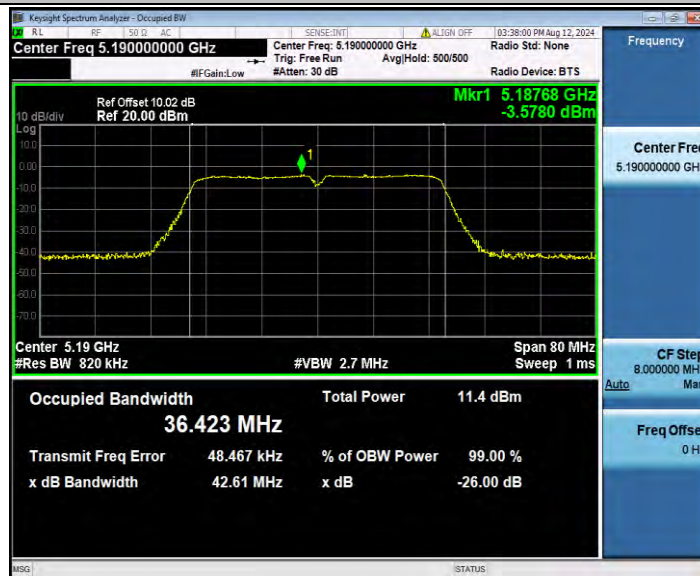
11A_Ant1_5240



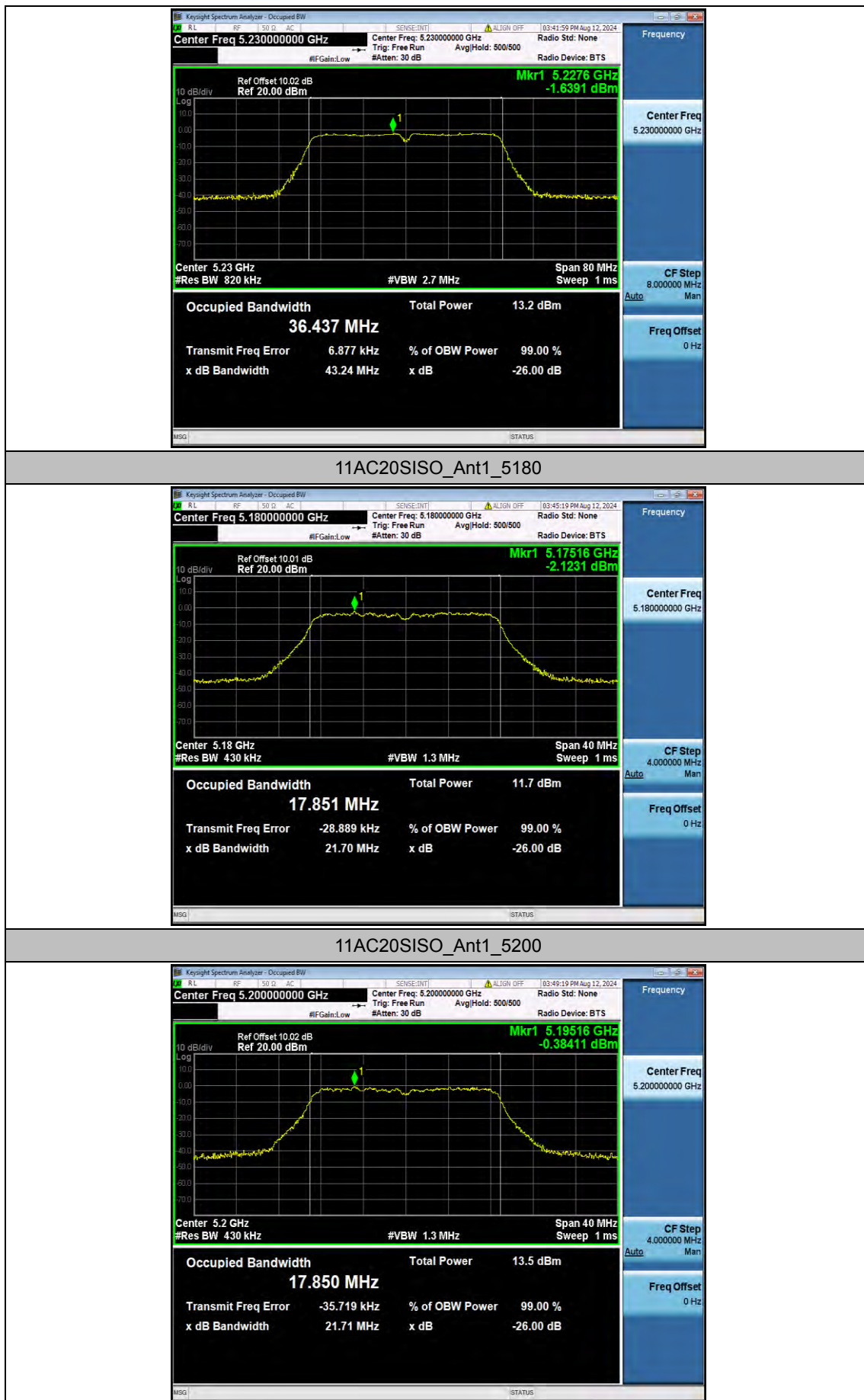
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



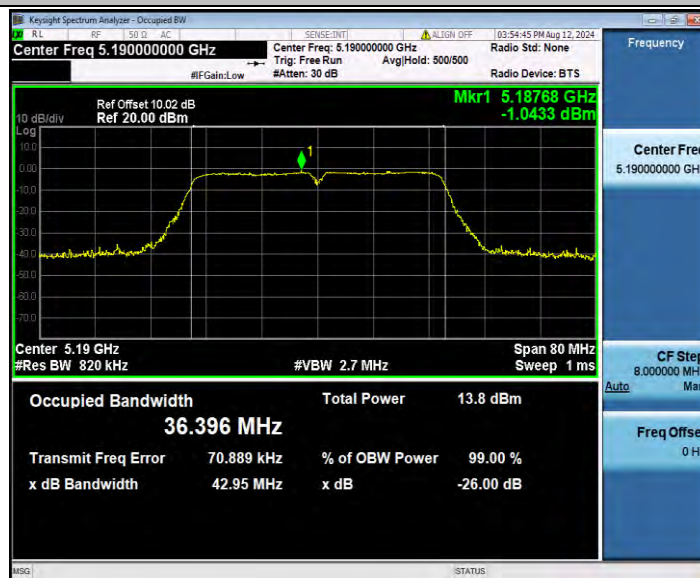
11N40SISO_Ant1_5230



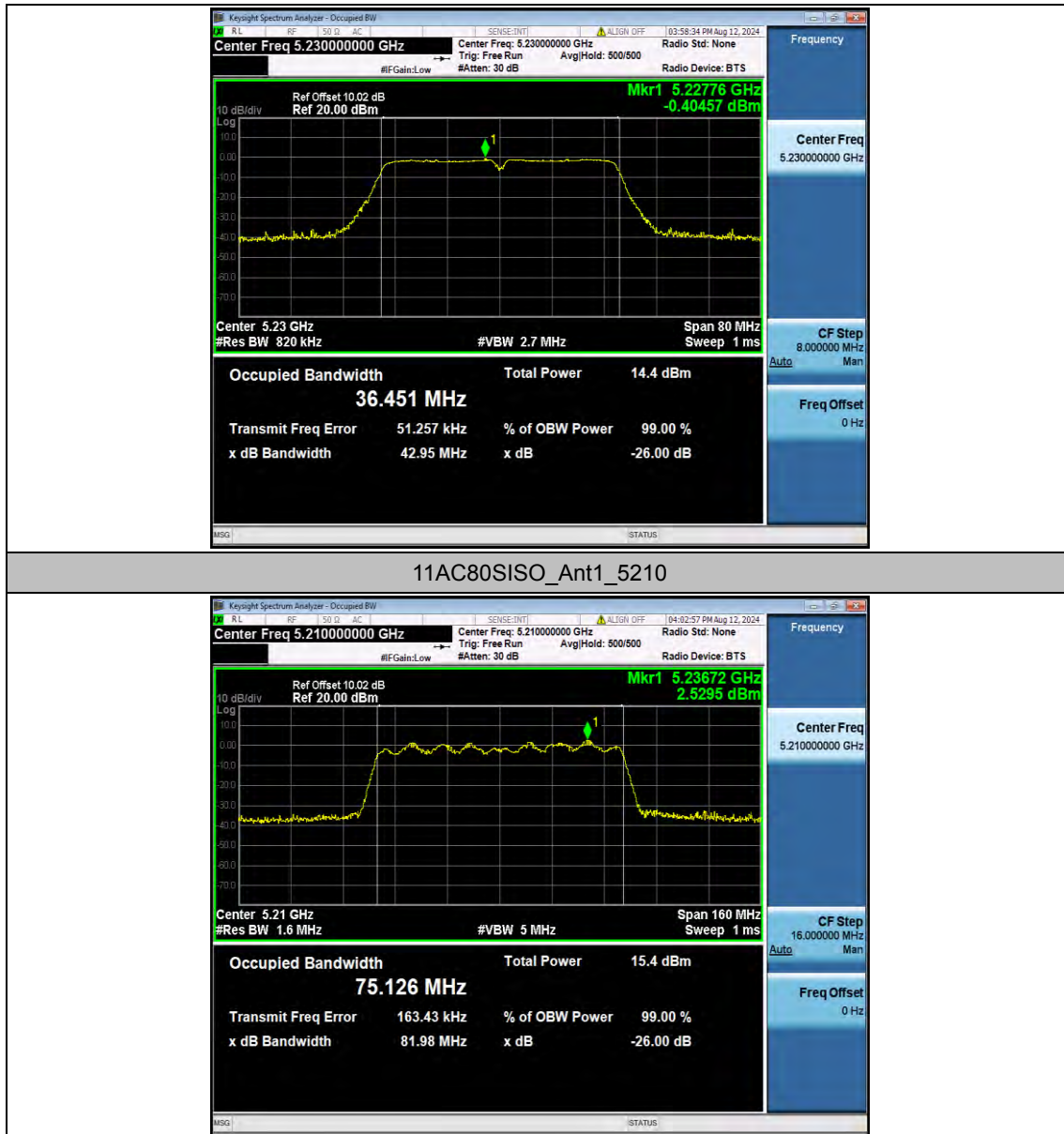
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



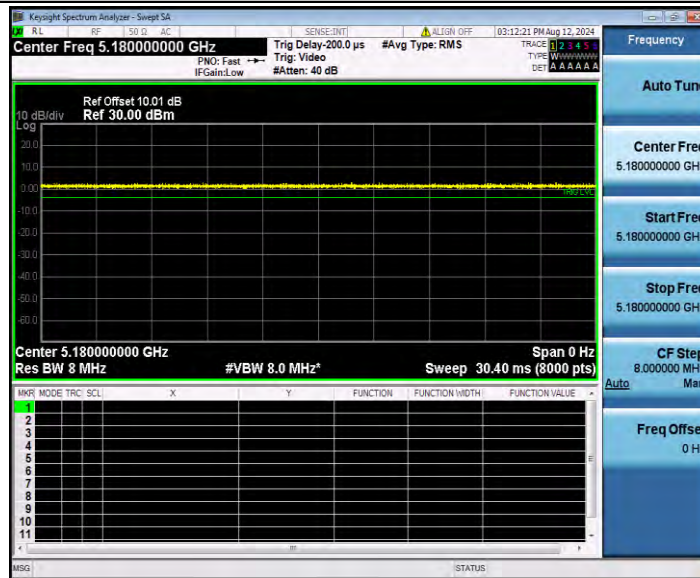
Appendix B.3: Duty Cycle

Test Result

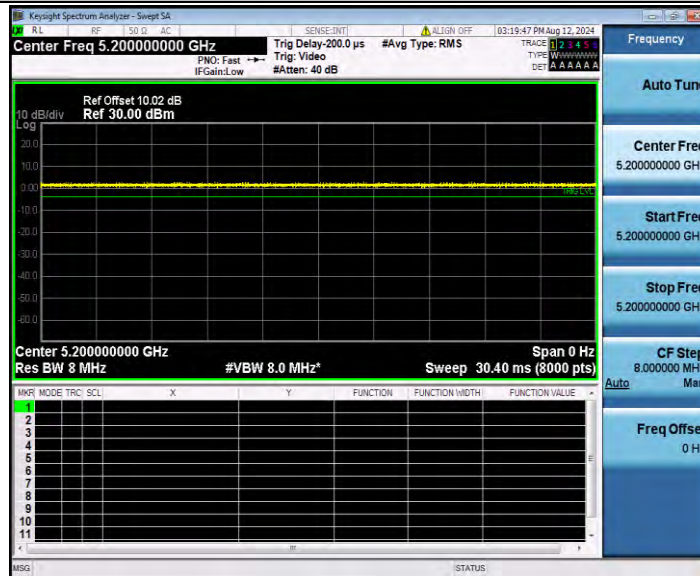
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200	30.00	30.00	100.00	0.00	0.03
		5240	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200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

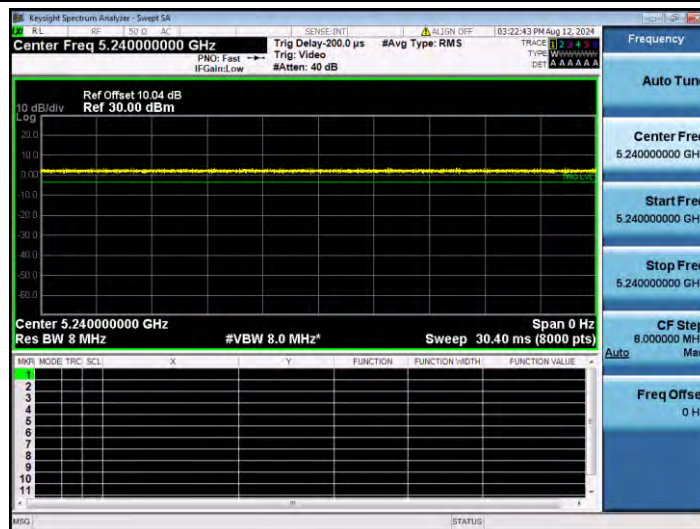
11A_Ant1_5180



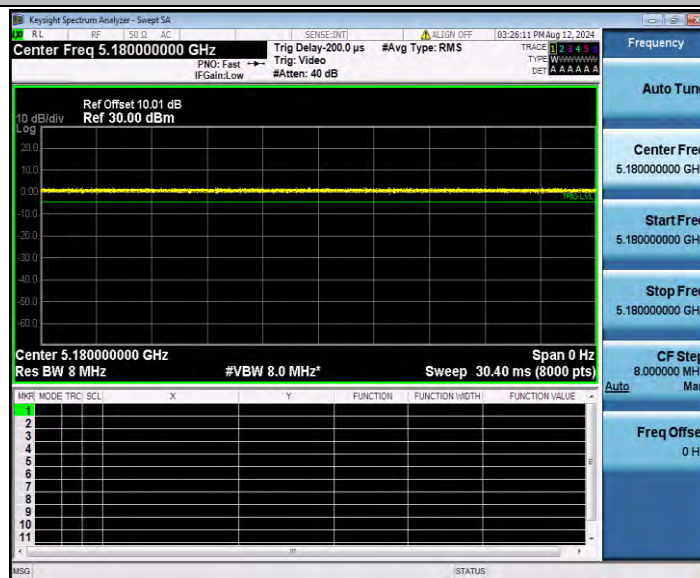
11A_Ant1_5200



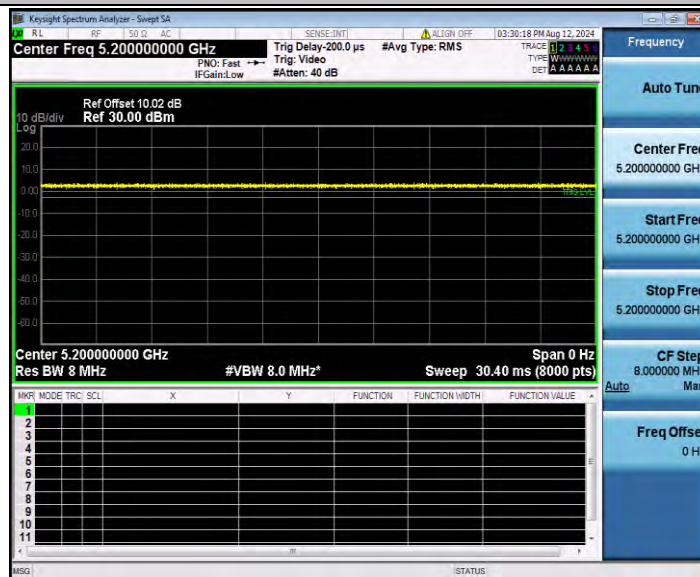
11A_Ant1_5240



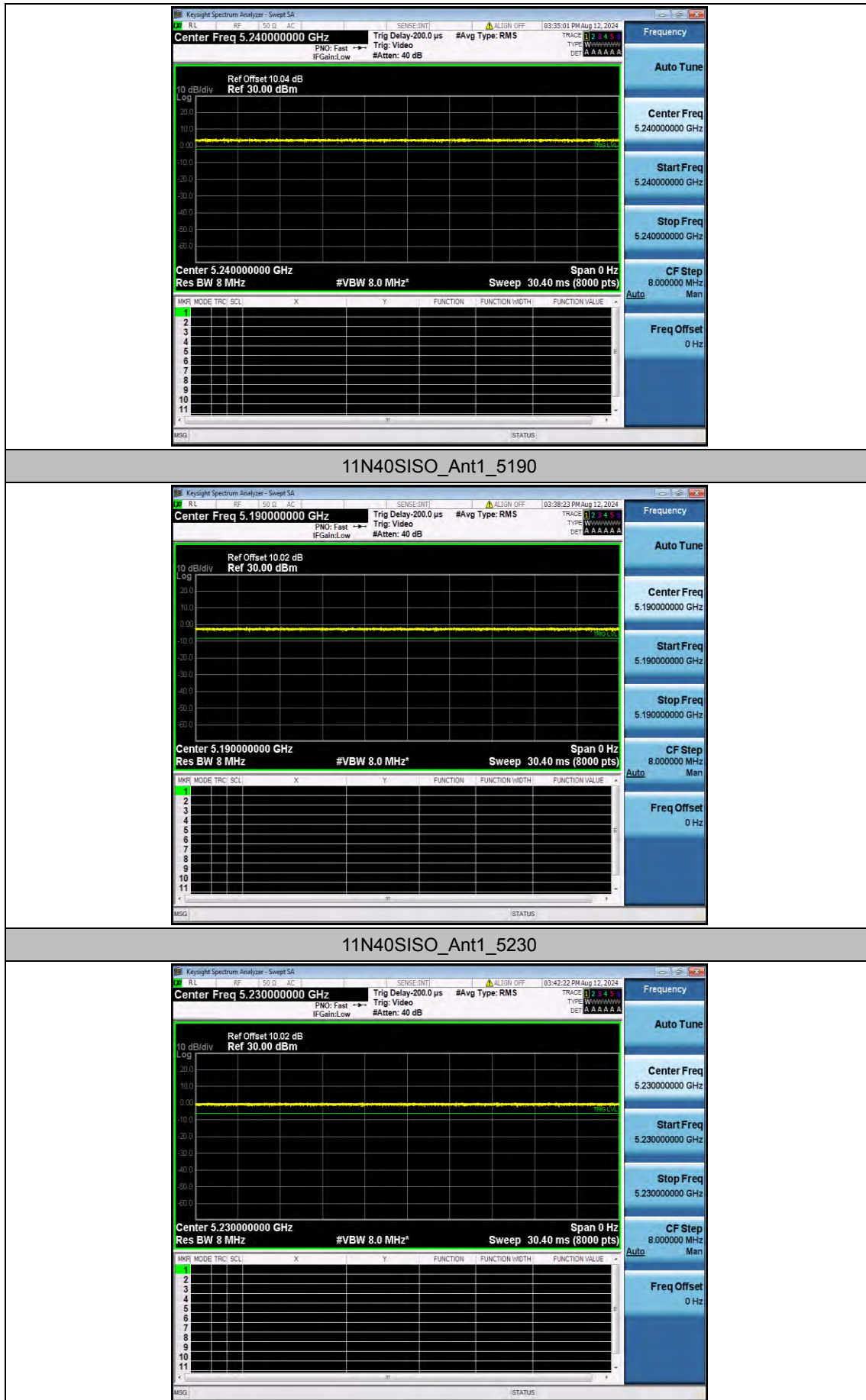
11N20SISO_Ant1_5180



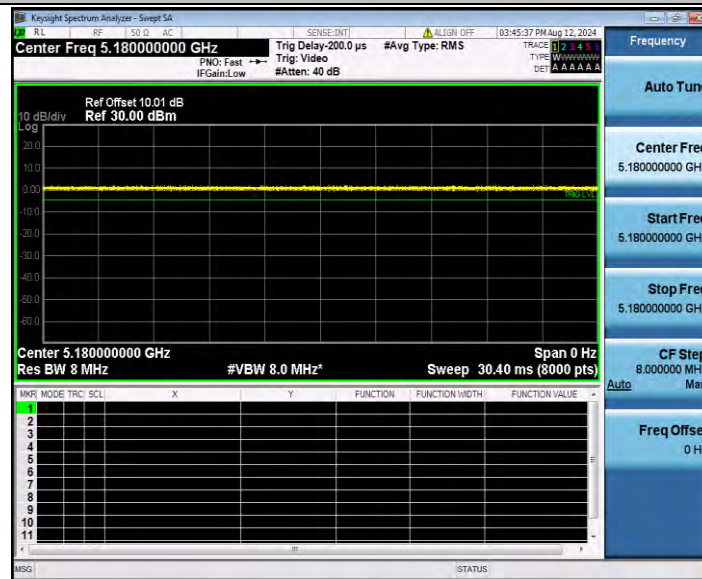
11N20SISO_Ant1_5200



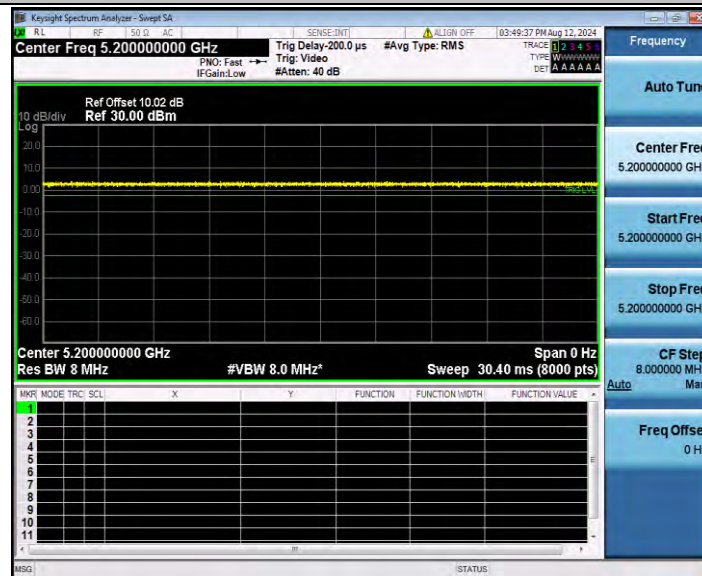
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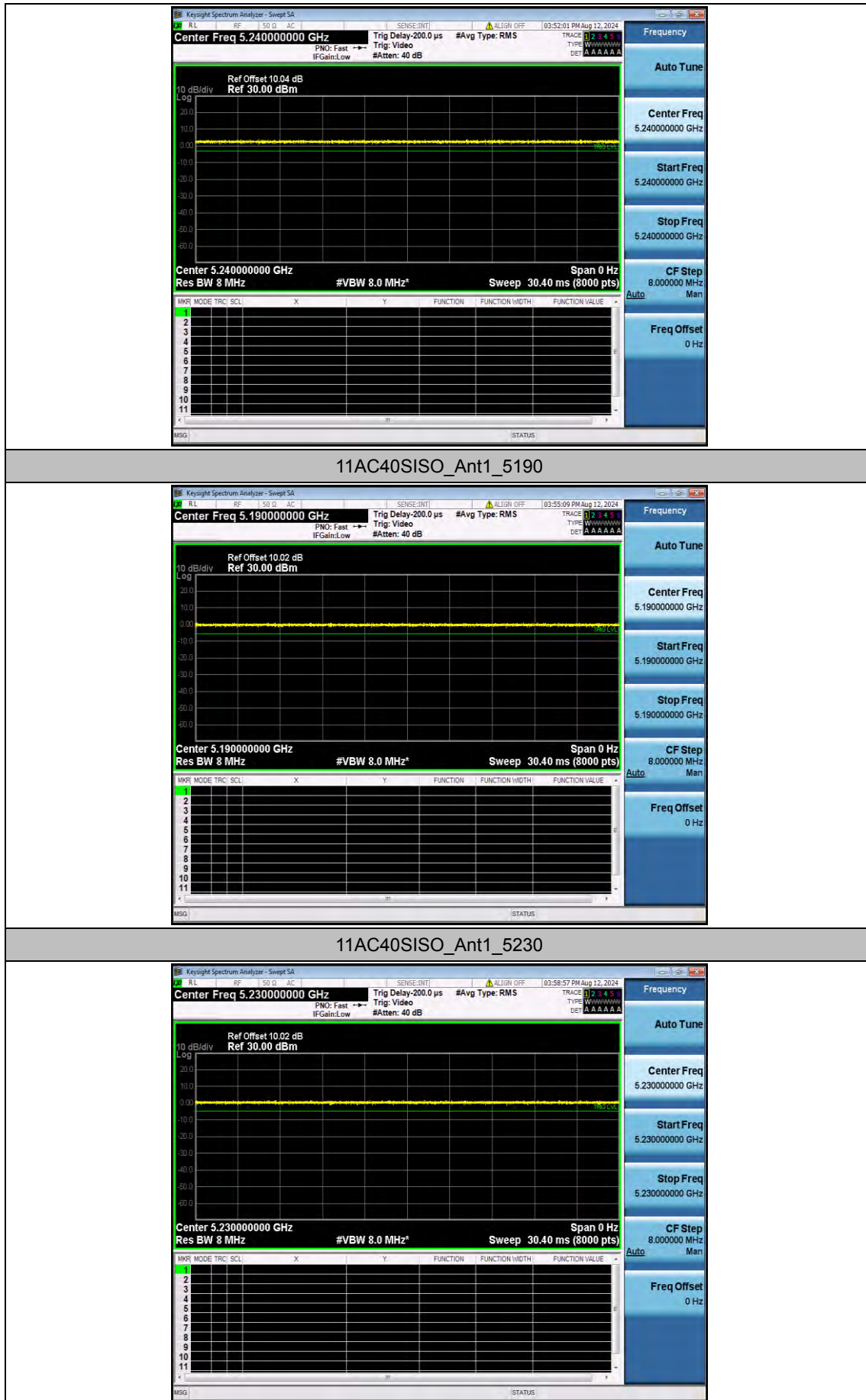
11AC20SISO_Ant1_5180

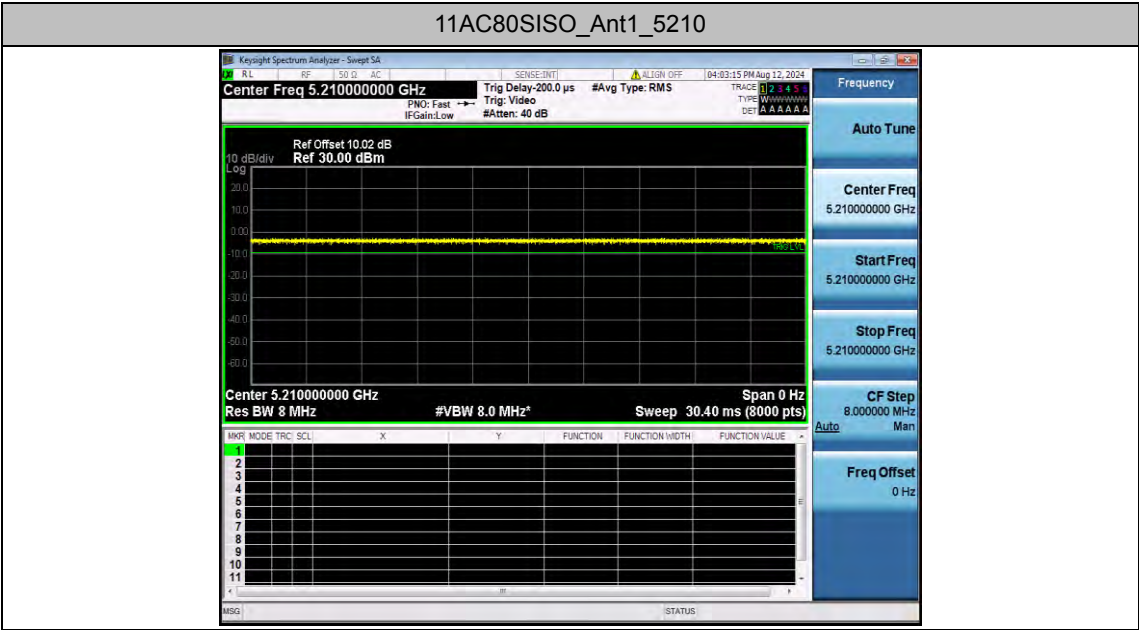


11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240





Appendix B.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	5.27	100.00	0.00	5.27	≤23.98	PASS
		5200	5.26	100.00	0.00	5.26	≤23.98	PASS
		5240	5.77	100.00	0.00	5.77	≤23.98	PASS
11N20SISO	Ant1	5180	4.83	100.00	0.00	4.83	≤23.98	PASS
		5200	6.62	100.00	0.00	6.62	≤23.98	PASS
		5240	6.00	100.00	0.00	6.00	≤23.98	PASS
11N40SISO	Ant1	5190	4.05	100.00	0.00	4.05	≤23.98	PASS
		5230	5.92	100.00	0.00	5.92	≤23.98	PASS
11AC20SISO	Ant1	5180	4.97	100.00	0.00	4.97	≤23.98	PASS
		5200	6.76	100.00	0.00	6.76	≤23.98	PASS
		5240	6.37	100.00	0.00	6.37	≤23.98	PASS
11AC40SISO	Ant1	5190	6.57	100.00	0.00	6.57	≤23.98	PASS
		5230	6.58	100.00	0.00	6.58	≤23.98	PASS
11AC80SISO	Ant1	5210	6.44	100.00	0.00	6.44	≤23.98	PASS

Appendix B.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-6.49	≤11.00	PASS
		5200	-6.27	≤11.00	PASS
		5240	-5.73	≤11.00	PASS
11N20SISO	Ant1	5180	-6.95	≤11.00	PASS
		5200	-5.14	≤11.00	PASS
		5240	-5.83	≤11.00	PASS
11N40SISO	Ant1	5190	-10.55	≤11.00	PASS
		5230	-8.79	≤11.00	PASS
11AC20SISO	Ant1	5180	-6.80	≤11.00	PASS
		5200	-4.99	≤11.00	PASS
		5240	-5.35	≤11.00	PASS
11AC40SISO	Ant1	5190	-8.03	≤11.00	PASS
		5230	-7.53	≤11.00	PASS
11AC80SISO	Ant1	5210	-9.68	≤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



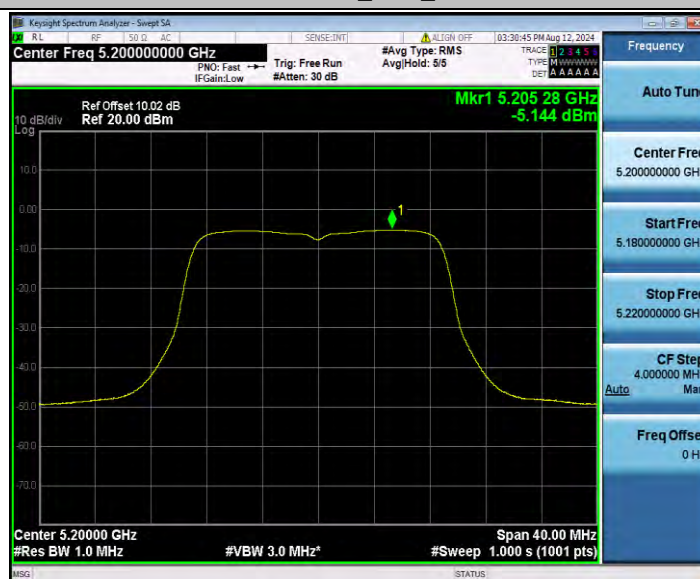
11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



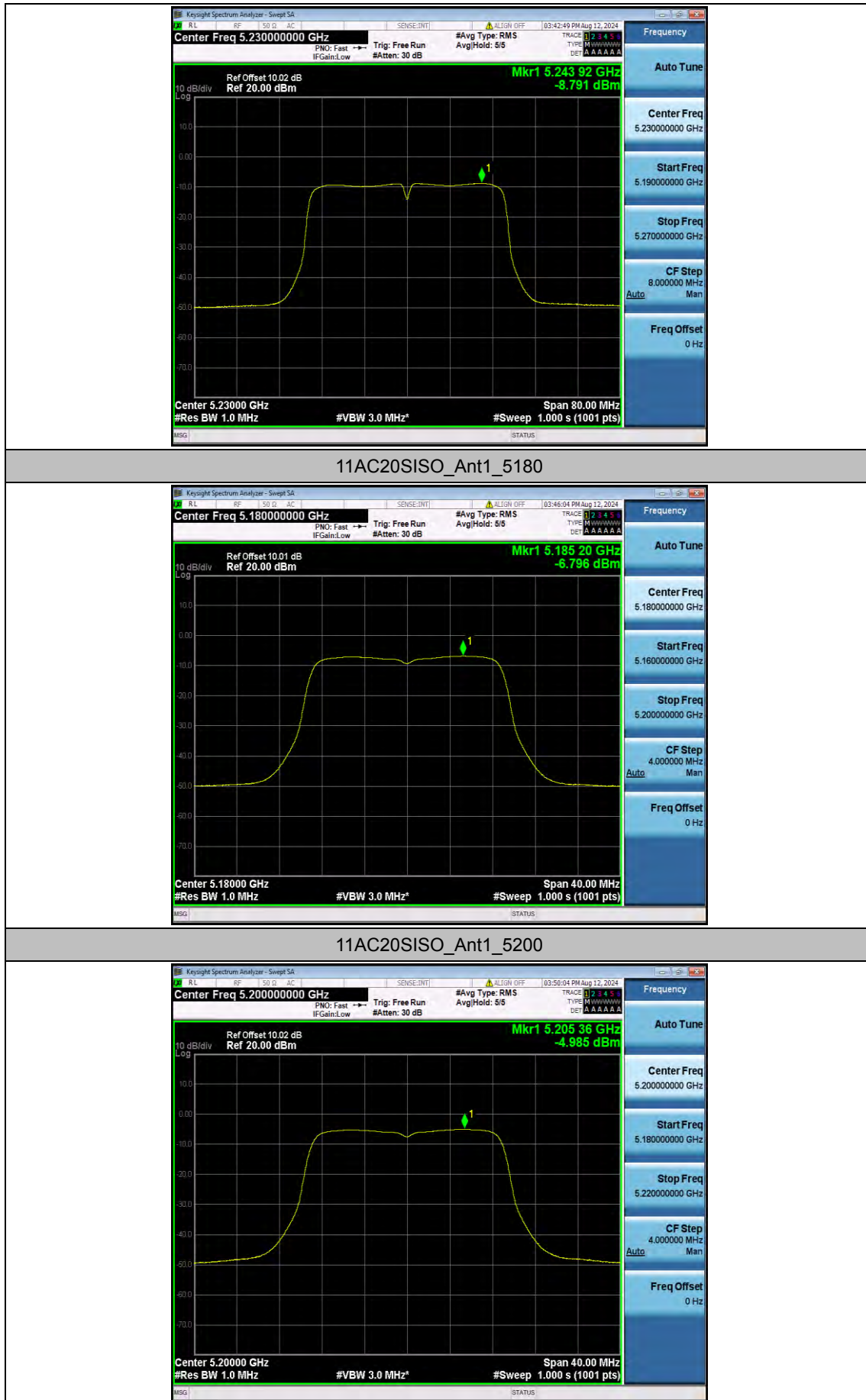
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

