

Case No. : <u>GTS20250213017-1-04</u>	
Ambient Condition: <u>23</u> °C, <u>53</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2025.3.6-2025.3.31</u>	Test Engineer: <u>Evan ouyang</u>

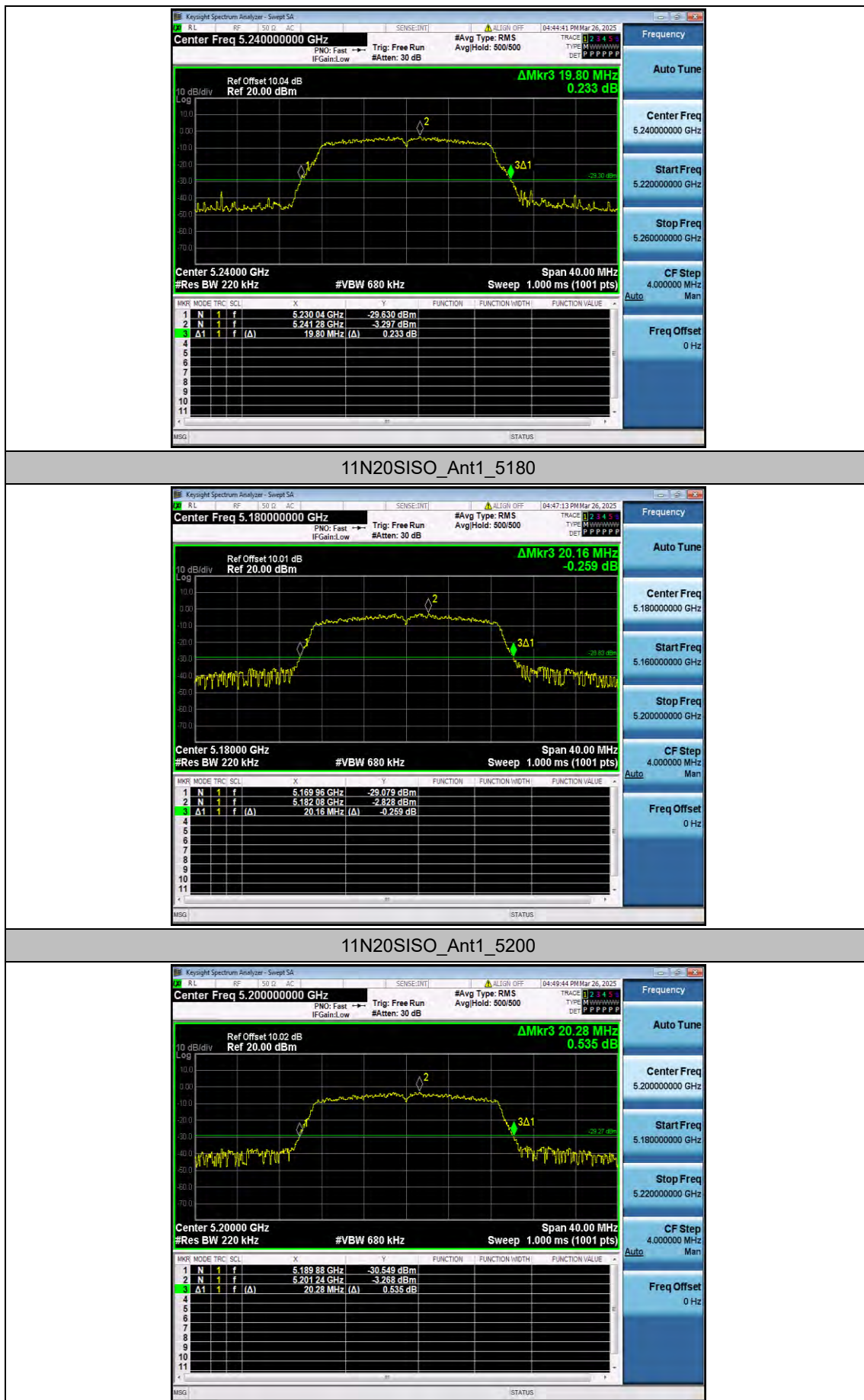
Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.960	5170.000	5189.960	---	---
		5200	19.640	5190.120	5209.760	---	---
		5240	19.800	5230.040	5249.840	---	---
11N20SISO	Ant1	5180	20.160	5169.960	5190.120	---	---
		5200	20.280	5189.880	5210.160	---	---
		5240	20.360	5229.840	5250.200	---	---
11N40SISO	Ant1	5190	40.480	5169.840	5210.320	---	---
		5230	40.800	5209.680	5250.480	---	---
11AC20SISO	Ant1	5180	20.480	5169.680	5190.160	---	---
		5200	20.360	5189.800	5210.160	---	---
		5240	20.320	5229.800	5250.120	---	---
11AC40SISO	Ant1	5190	40.320	5169.920	5210.240	---	---
		5230	40.720	5209.680	5250.400	---	---
11AC80SISO	Ant1	5210	81.120	5169.680	5250.800	---	---

Test Graphs

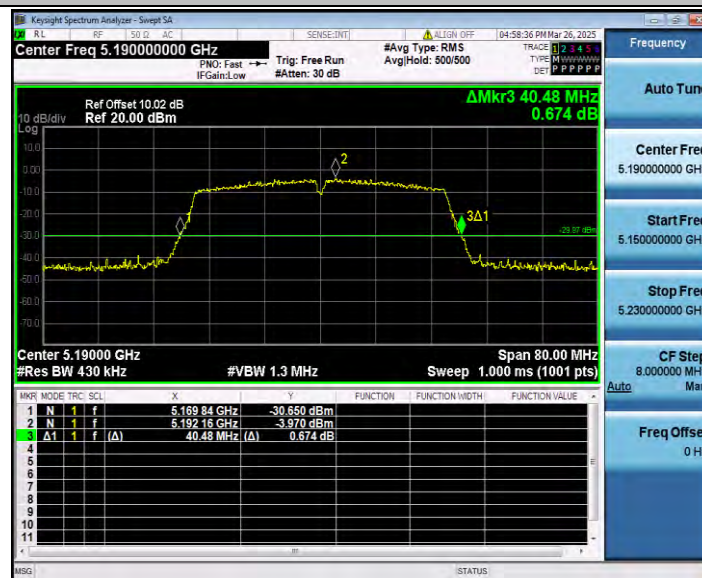




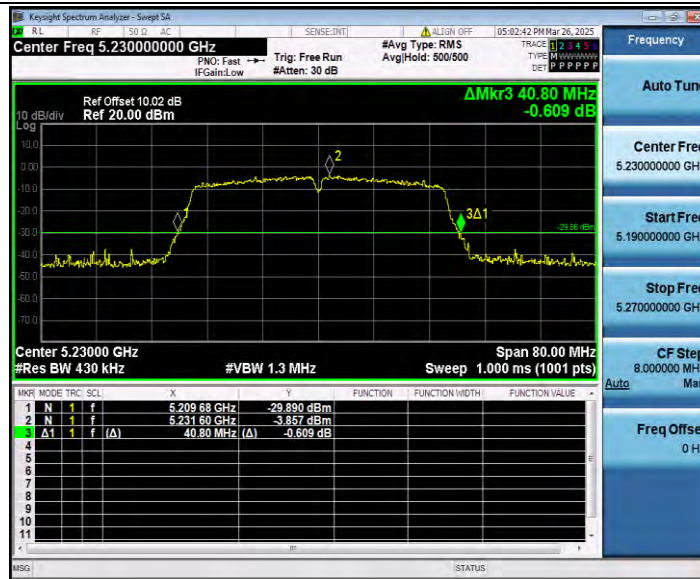
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11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



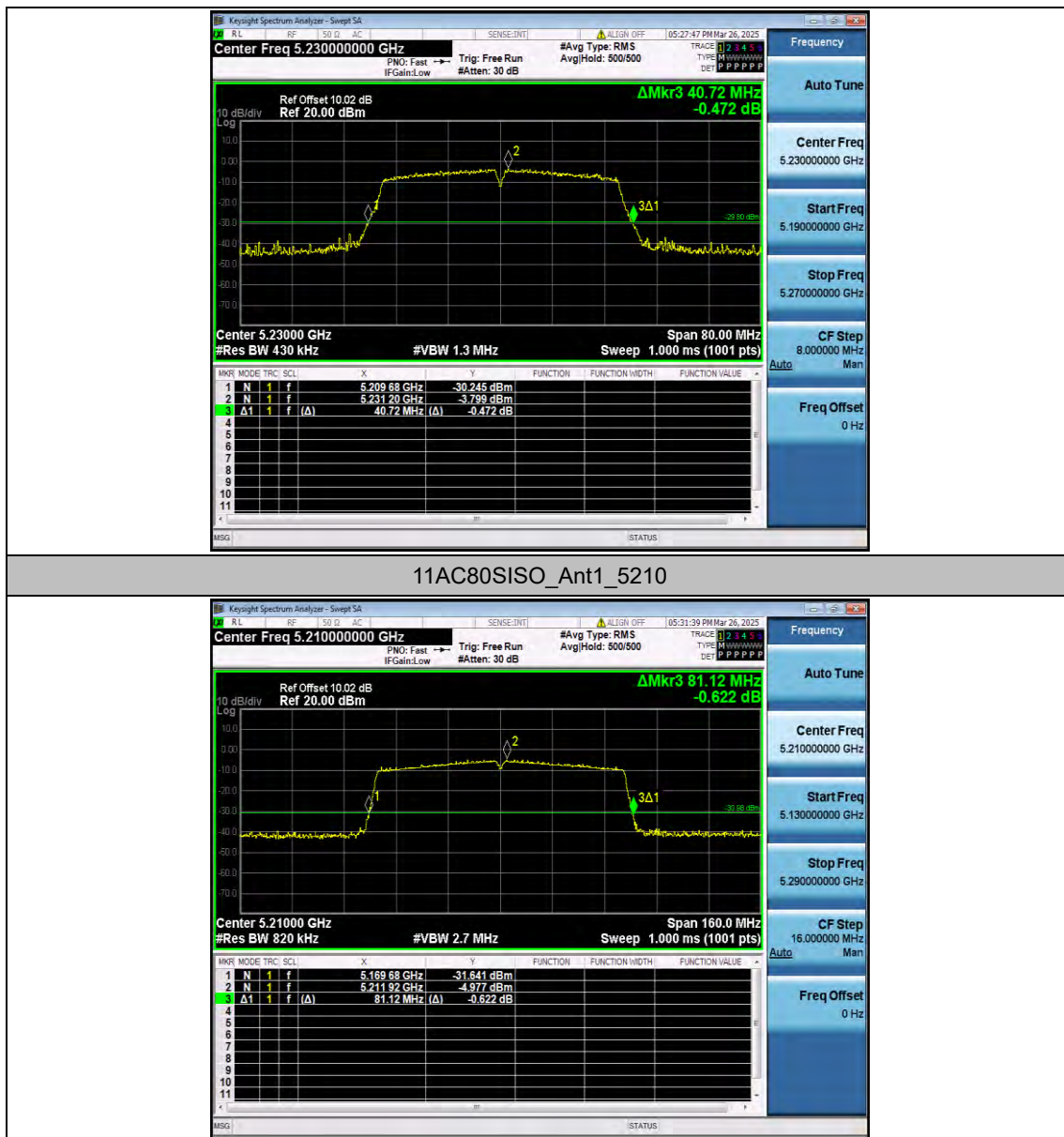
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



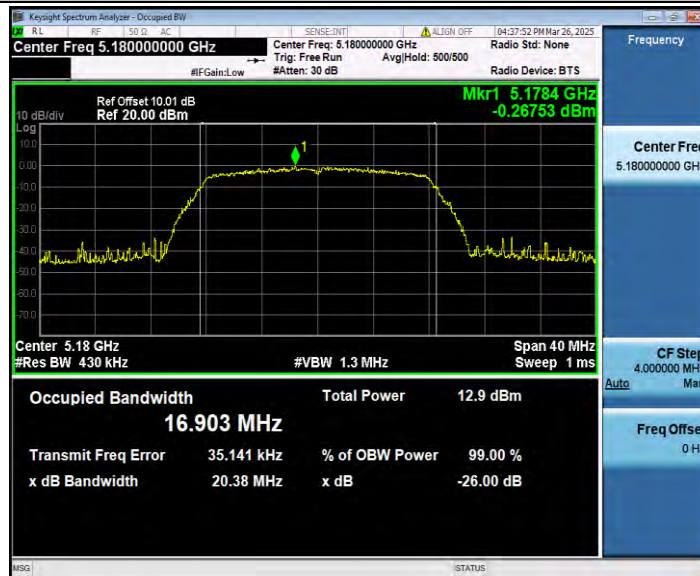
Appendix D.2: Occupied channel bandwidth

Test Result

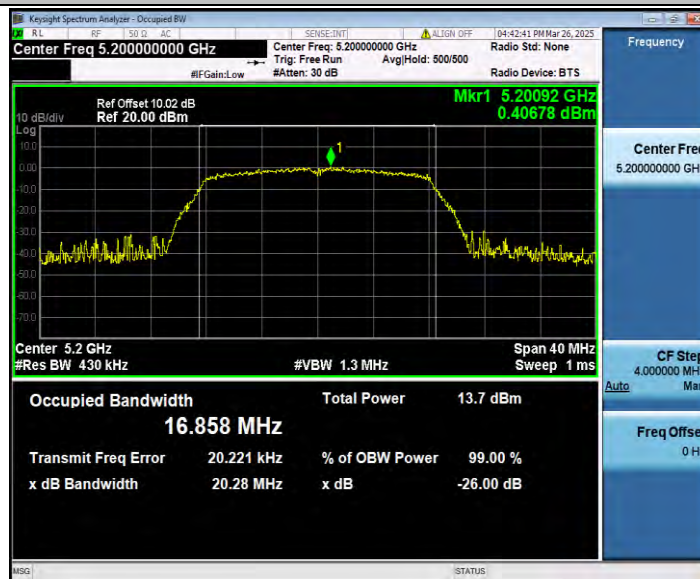
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.903	5171.5836	5188.4866	---	---
		5200	16.858	5191.5912	5208.4492	---	---
		5240	16.881	5231.5565	5248.4375	---	---
11N20SISO	Ant1	5180	17.904	5171.0784	5188.9824	---	---
		5200	17.820	5191.1053	5208.9253	---	---
		5240	17.834	5231.0944	5248.9284	---	---
11N40SISO	Ant1	5190	36.325	5171.8583	5208.1833	---	---
		5230	36.197	5211.8915	5248.0885	---	---
11AC20SISO	Ant1	5180	17.814	5171.0847	5188.8987	---	---
		5200	17.811	5191.1192	5208.9302	---	---
		5240	17.798	5231.0989	5248.8969	---	---
11AC40SISO	Ant1	5190	36.298	5171.9322	5208.2302	---	---
		5230	36.392	5211.8001	5248.1921	---	---
11AC80SISO	Ant1	5210	75.157	5172.4986	5247.6556	---	---

Test Graphs

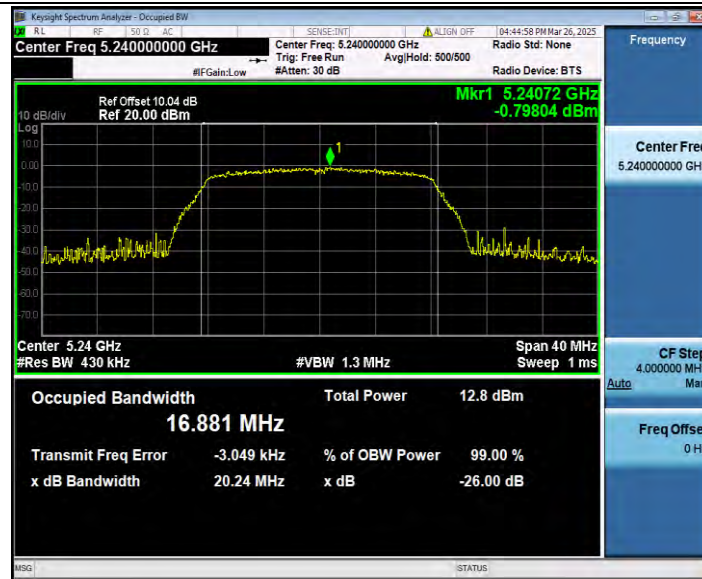
11A_Ant1_5180



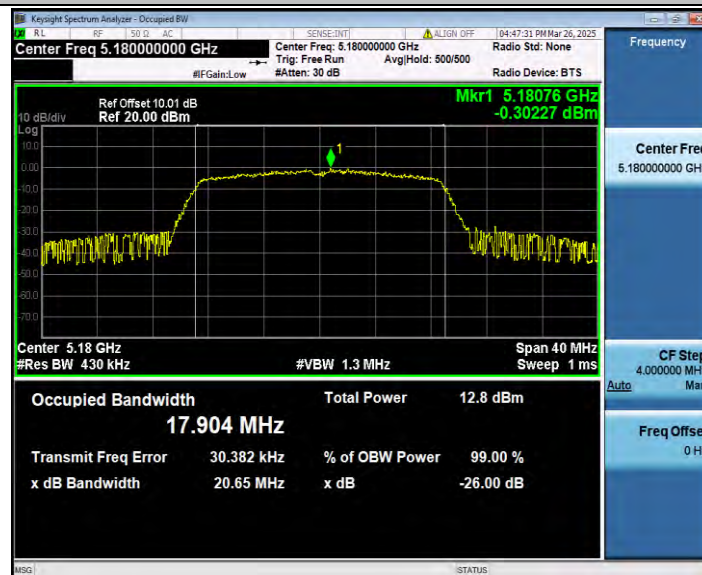
11A_Ant1_5200



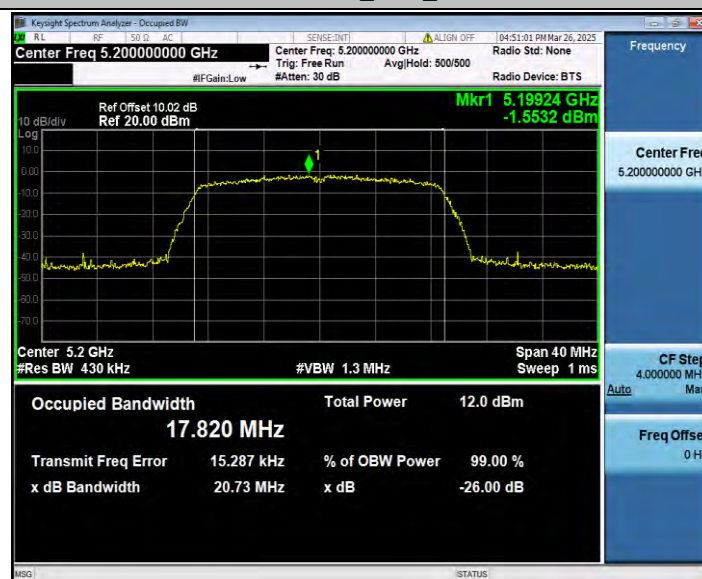
11A_Ant1_5240



11N20SISO_Ant1_5180



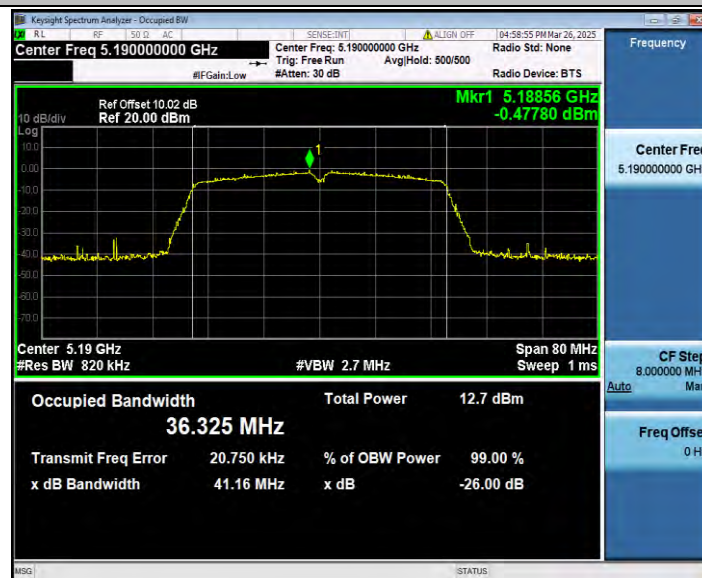
11N20SISO_Ant1_5200



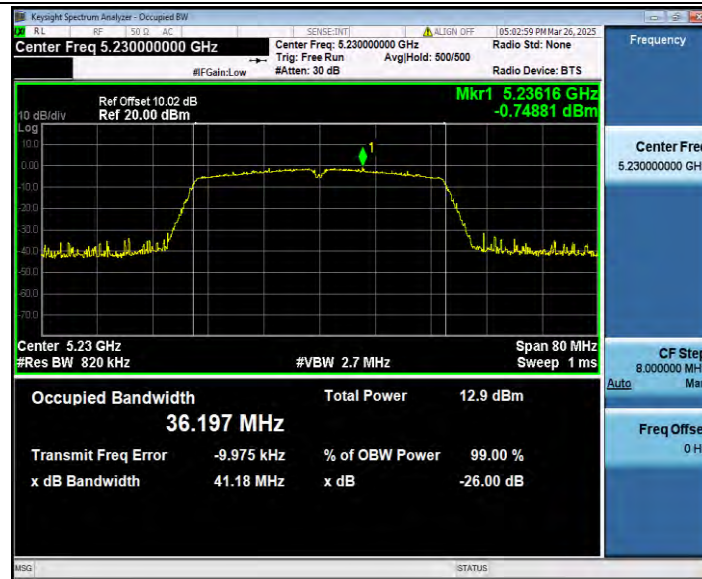
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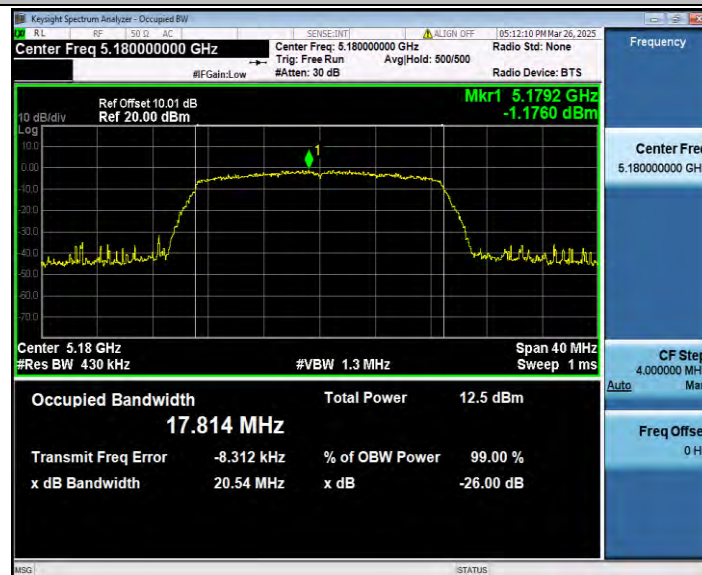
11N40SISO_Ant1_5190



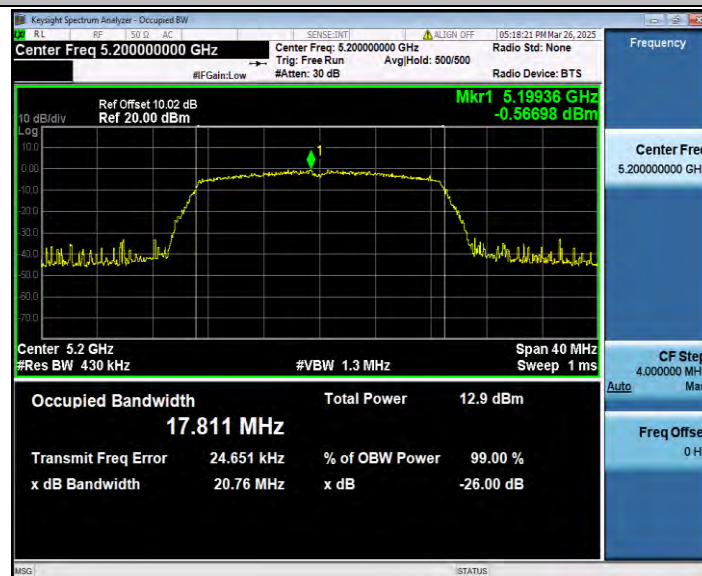
11N40SISO_Ant1_5230



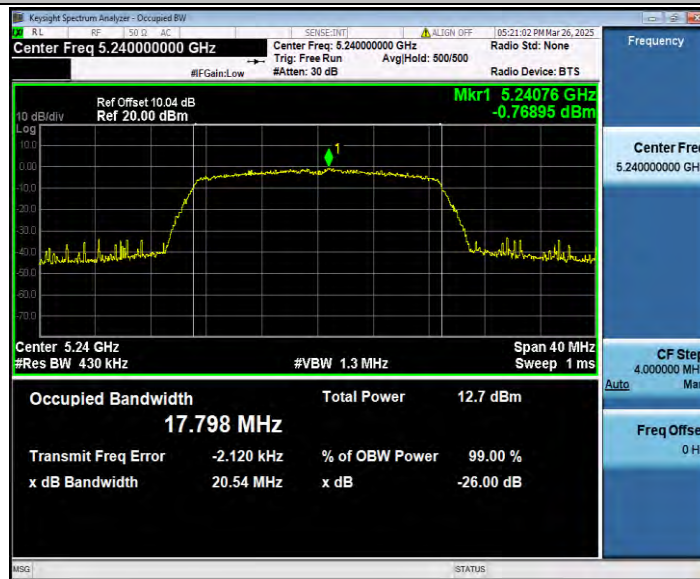
11AC20SISO_Ant1_5180



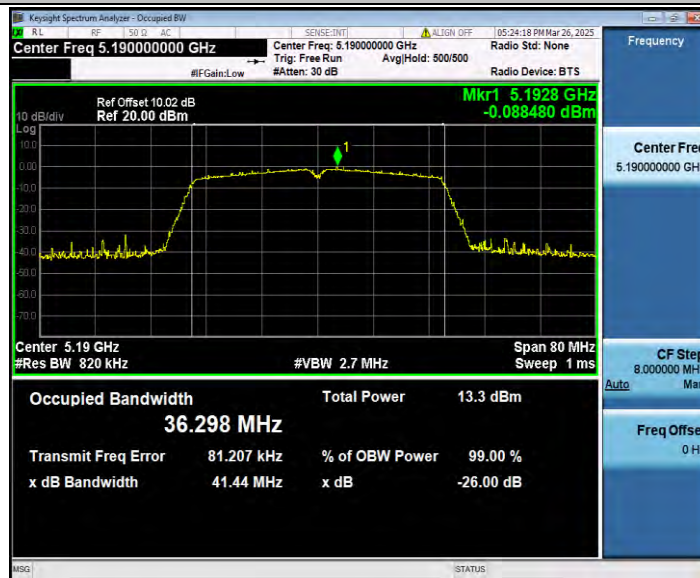
11AC20SISO_Ant1_5200



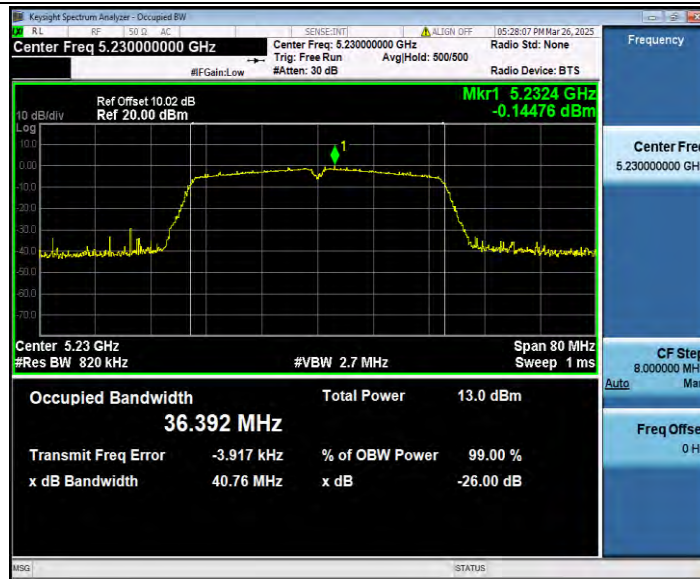
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

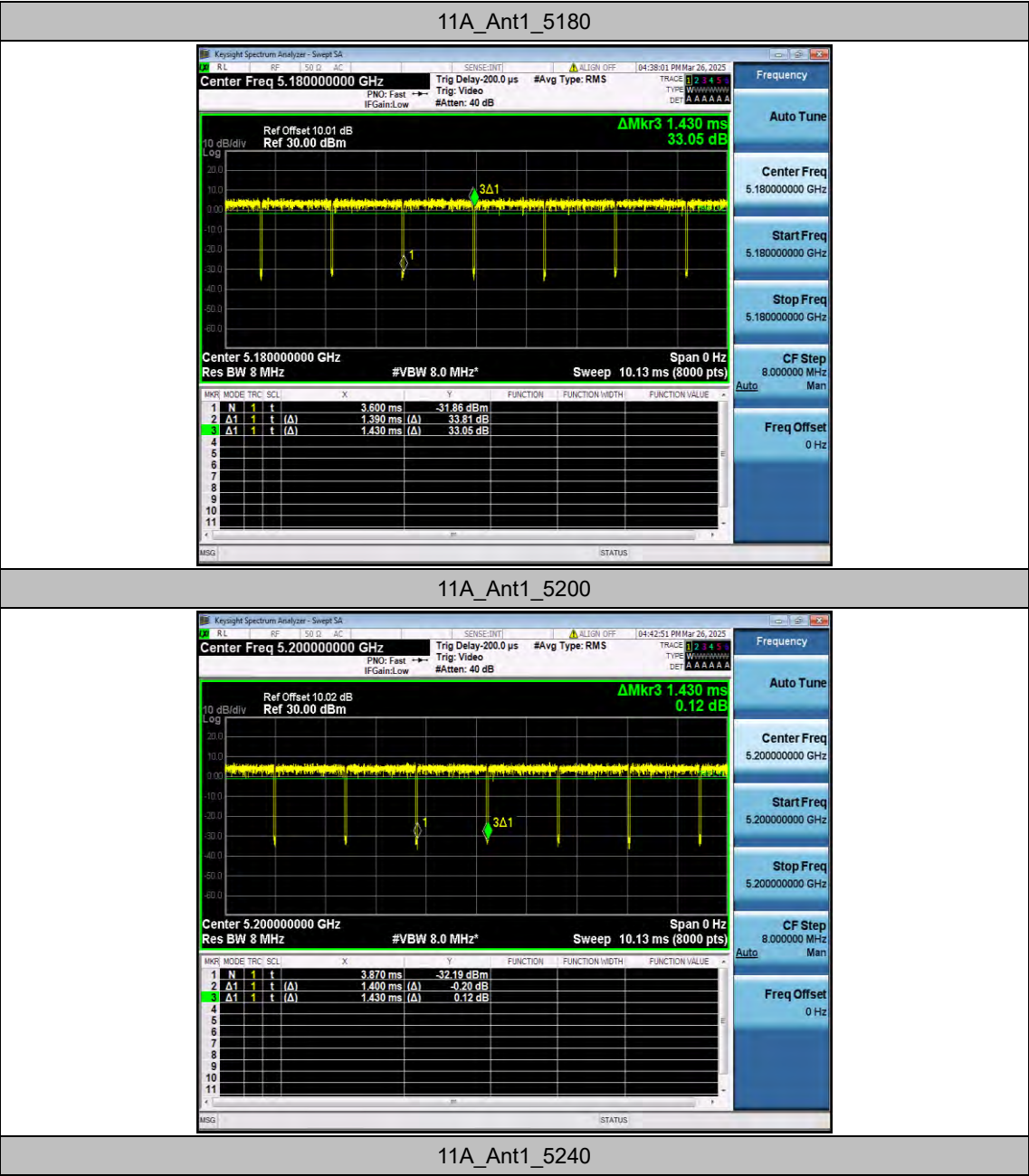


Appendix D.3: Duty Cycle

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	1.39	1.43	97.20	0.12	0.72
		5200	1.40	1.43	97.90	0.09	0.71
		5240	1.40	1.43	97.90	0.09	0.71
11N20SISO	Ant1	5180	1.30	1.34	97.01	0.13	0.77
		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



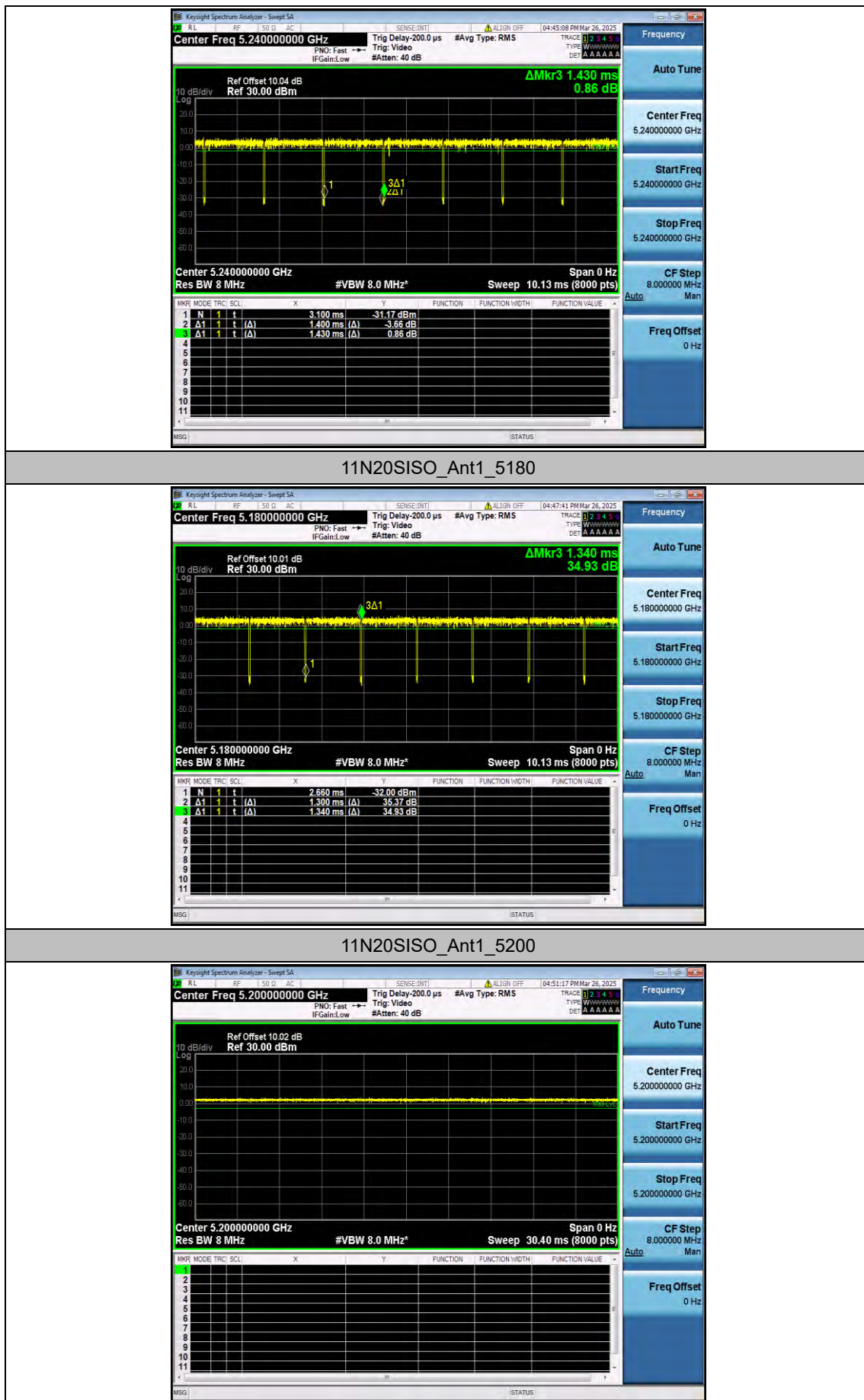
11A_Ant1_5200

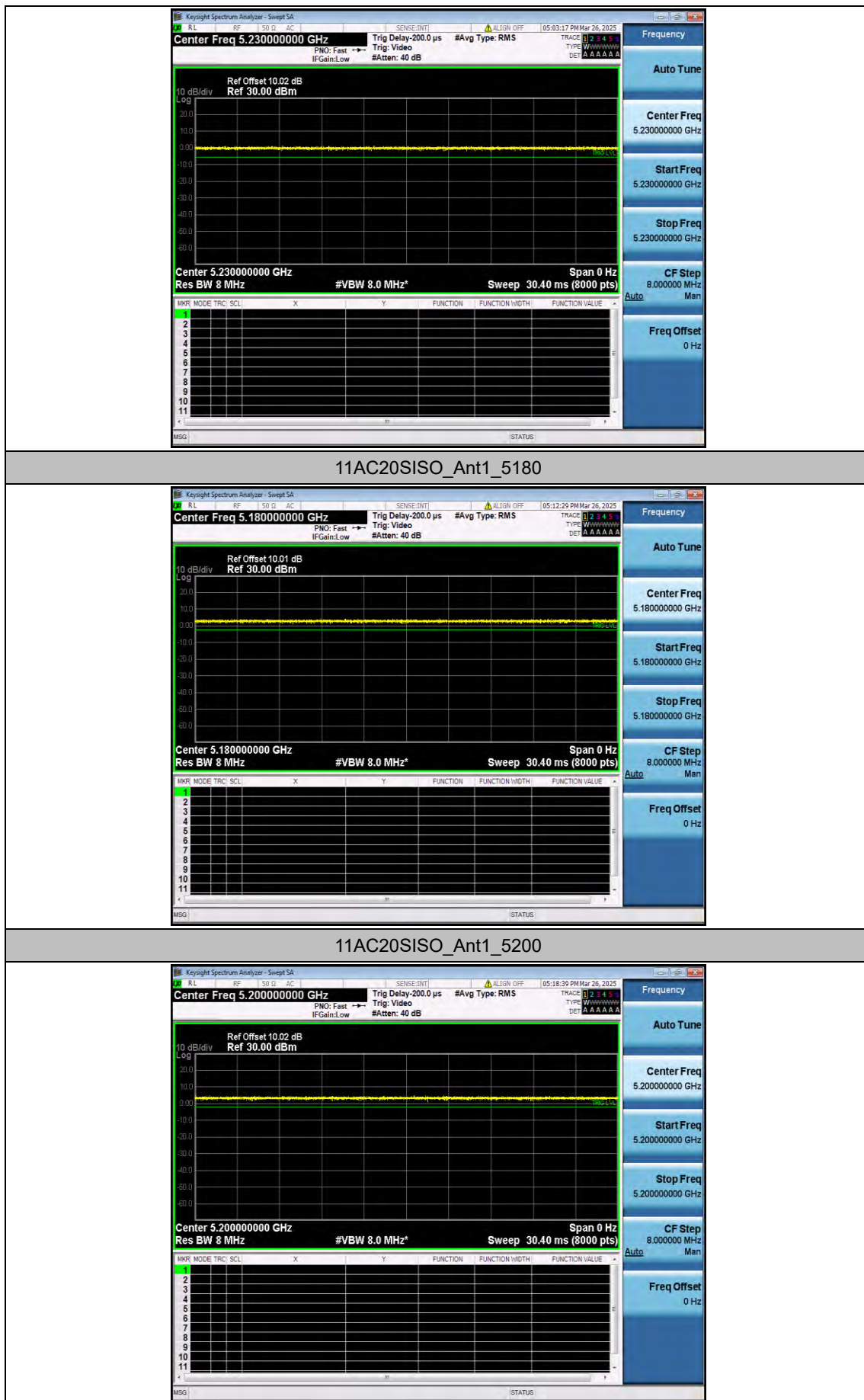
Frequency

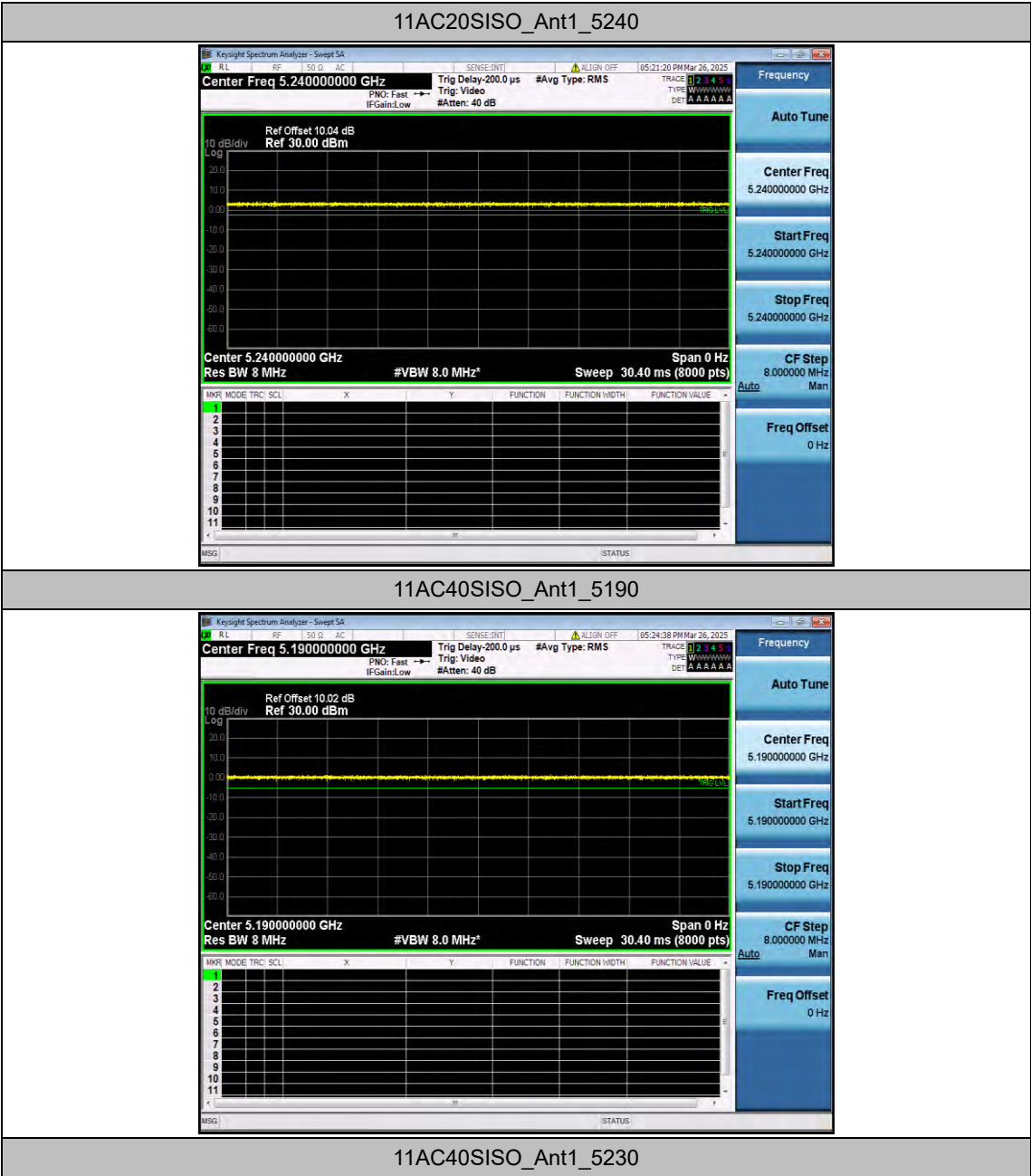
Auto Tune

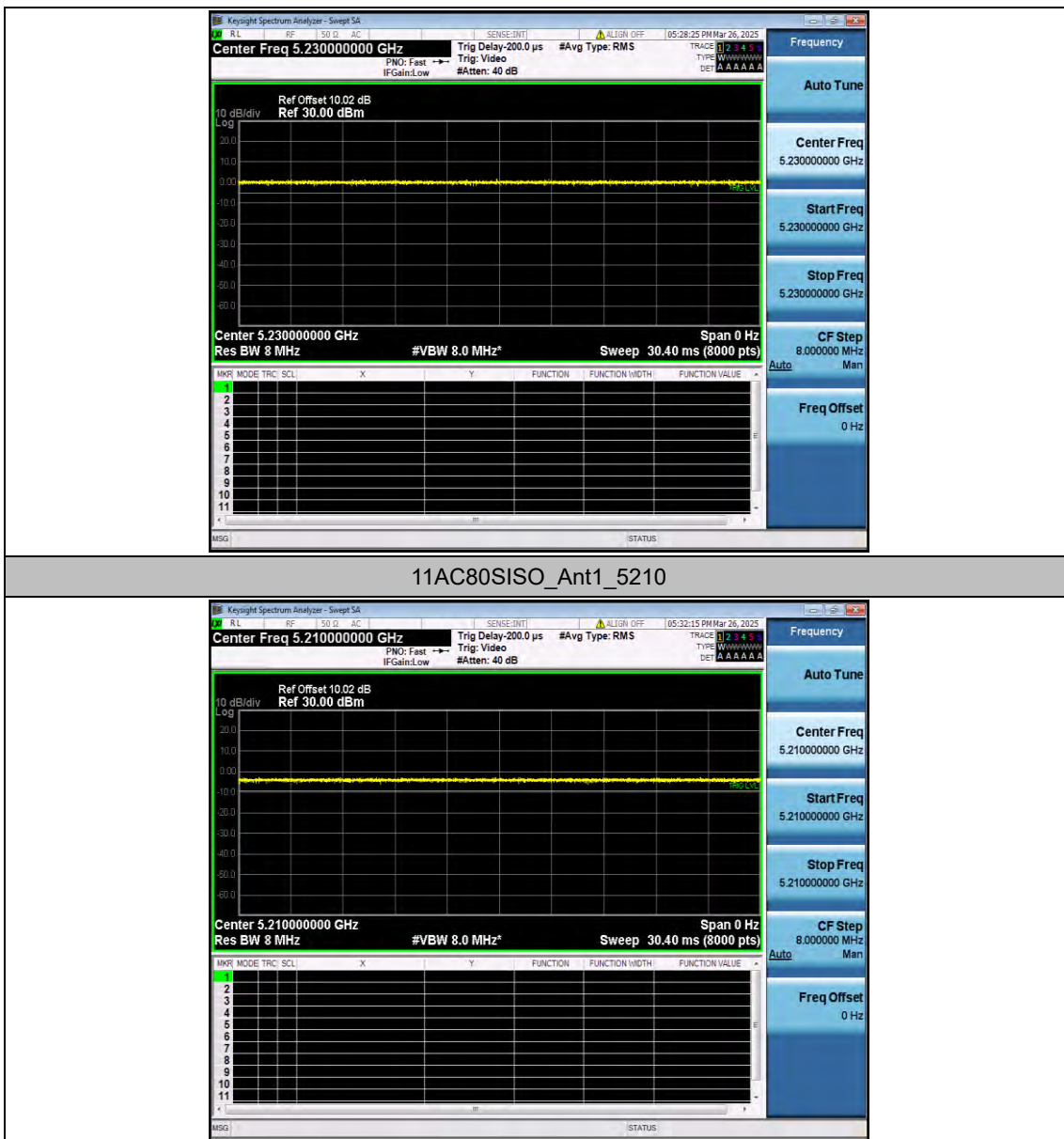
Center Freq
5.200000000 GHzStart Freq
5.200000000 GHzStop Freq
5.200000000 GHzCF Step
8.00000000 MHzFreq Offset
0 Hz

11A_Ant1_5240









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	6.11	97.20	0.12	6.23	≤23.98	PASS
		5200	6.74	97.90	0.09	6.83	≤23.98	PASS
		5240	5.86	97.90	0.09	5.95	≤23.98	PASS
11N20SISO	Ant1	5180	6.04	97.01	0.13	6.17	≤23.98	PASS
		5200	6.20	100.00	0.00	6.20	≤23.98	PASS
		5240	6.60	100.00	0.00	6.60	≤23.98	PASS
11N40SISO	Ant1	5190	6.32	100.00	0.00	6.32	≤23.98	PASS
		5230	6.53	100.00	0.00	6.53	≤23.98	PASS
11AC20SISO	Ant1	5180	6.75	100.00	0.00	6.75	≤23.98	PASS
		5200	6.22	100.00	0.00	6.22	≤23.98	PASS
		5240	6.84	100.00	0.00	6.84	≤23.98	PASS
11AC40SISO	Ant1	5190	5.92	100.00	0.00	5.92	≤23.98	PASS
		5230	5.71	100.00	0.00	5.71	≤23.98	PASS
11AC80SISO	Ant1	5210	5.46	100.00	0.00	5.46	≤23.98	PASS

Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-4.50	≤11.00	PASS
		5200	-3.82	≤11.00	PASS
		5240	-4.69	≤11.00	PASS
11N20SISO	Ant1	5180	-4.73	≤11.00	PASS
		5200	-5.77	≤11.00	PASS
		5240	-6.29	≤11.00	PASS
11N40SISO	Ant1	5190	-8.29	≤11.00	PASS
		5230	-8.10	≤11.00	PASS
11AC20SISO	Ant1	5180	-5.23	≤11.00	PASS
		5200	-4.73	≤11.00	PASS
		5240	-5.11	≤11.00	PASS
11AC40SISO	Ant1	5190	-7.63	≤11.00	PASS
		5230	-7.90	≤11.00	PASS
11AC80SISO	Ant1	5210	-12.07	≤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



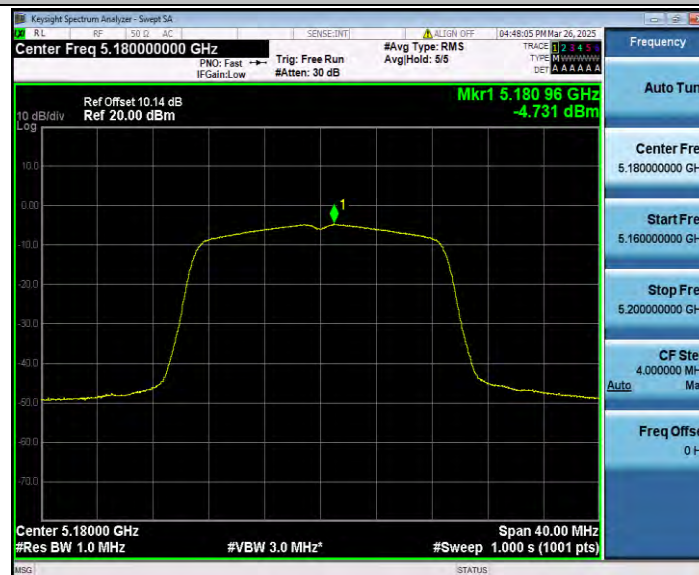
11A_Ant1_5200



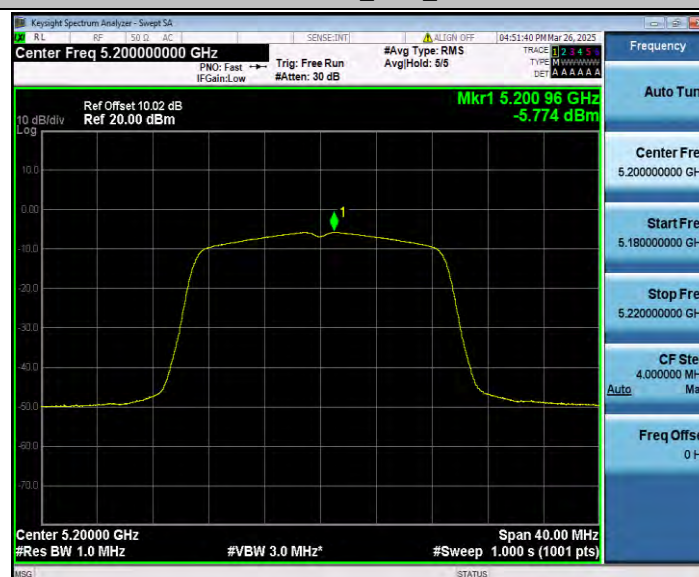
11A_Ant1_5240



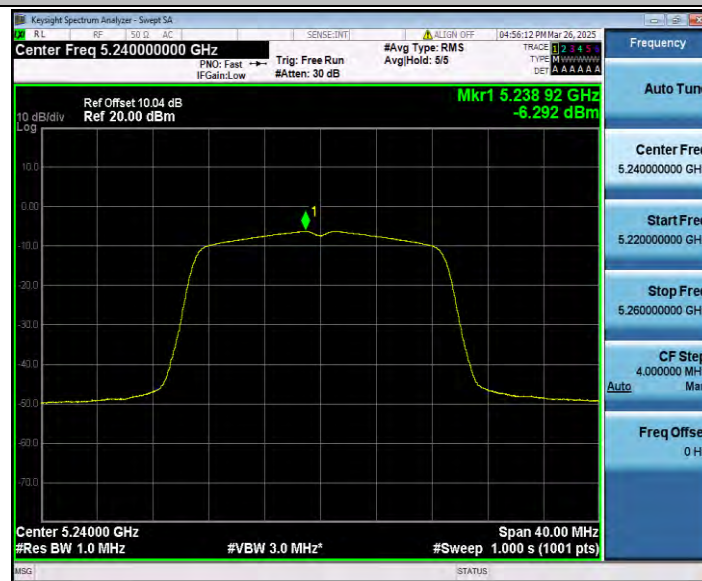
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



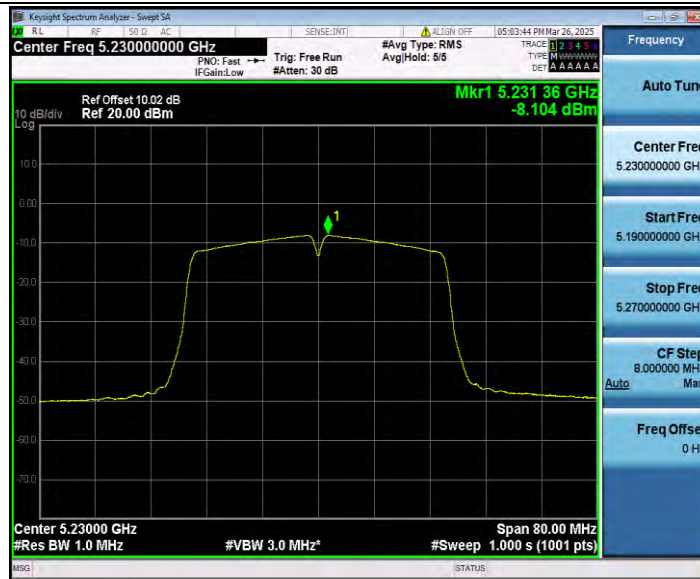
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



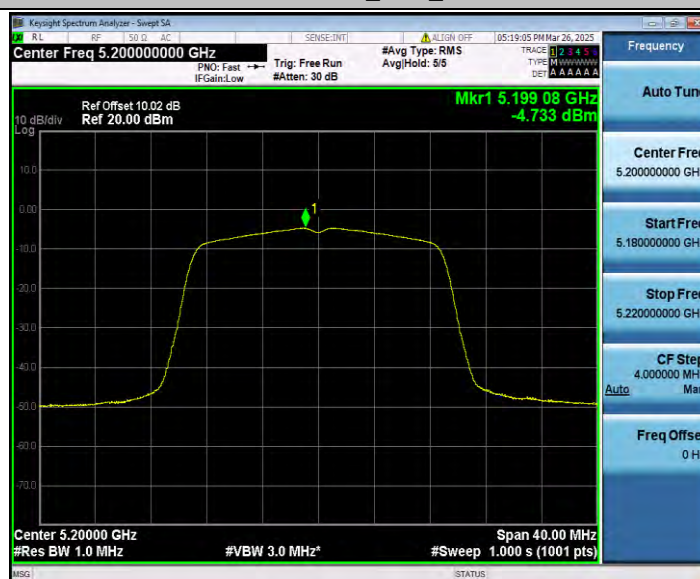
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



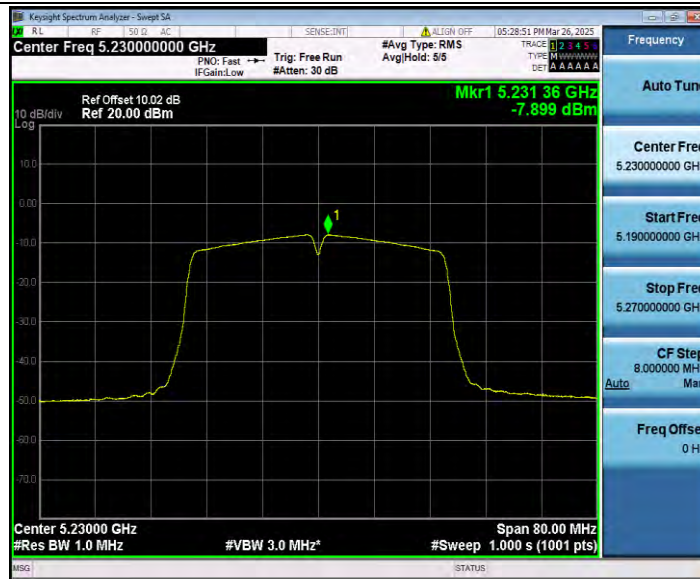
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

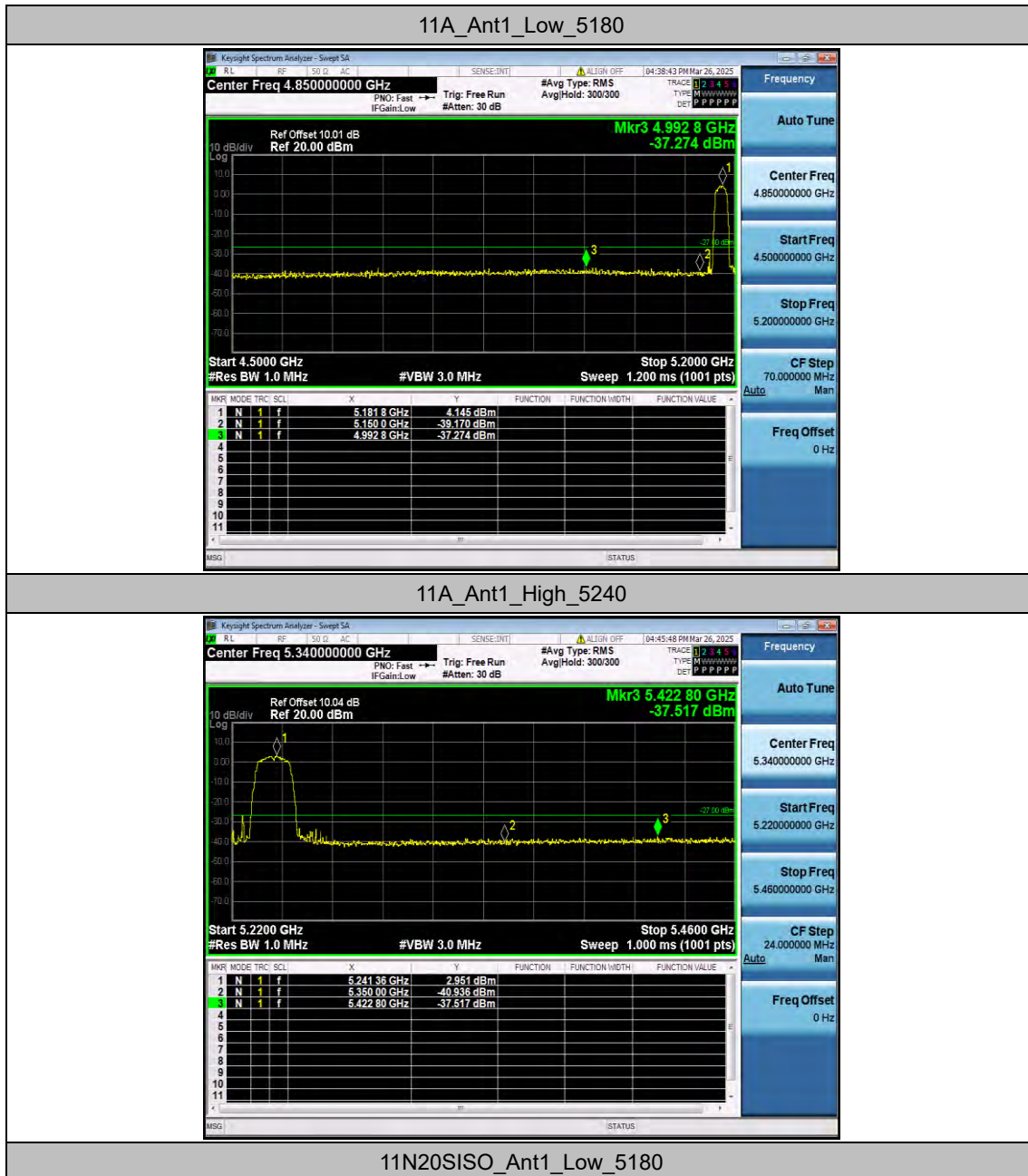


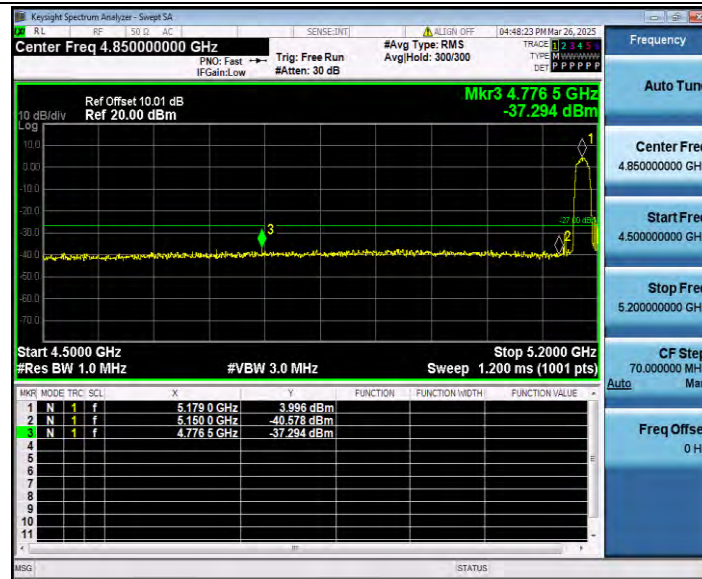
Appendix D.6: Band edge measurements

Test Result B1

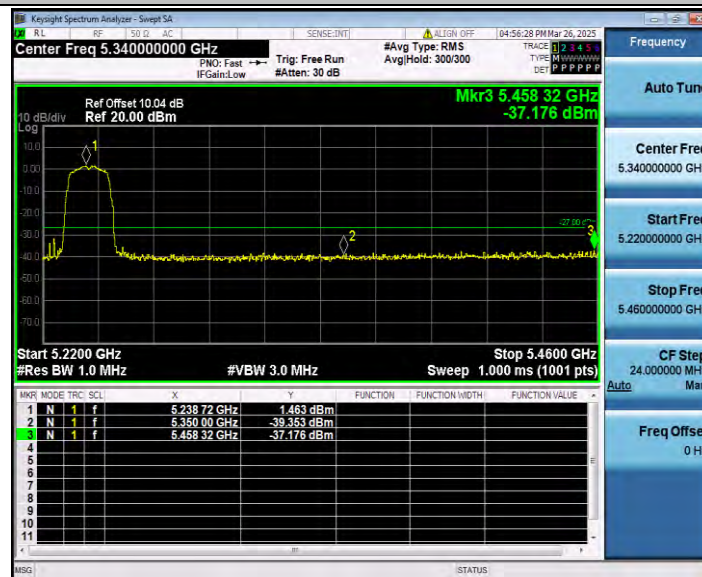
TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-37.27	≤ -27	PASS
		High	5240	-37.52	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-37.29	≤ -27	PASS
		High	5240	-37.18	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-36.95	≤ -27	PASS
		High	5230	-37.71	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-35.27	≤ -27	PASS
		High	5240	-37.36	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-37.43	≤ -27	PASS
		High	5230	-37.47	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-37.41	≤ -27	PASS
		High	5210	-37.51	≤ -27	PASS

Test Graphs B1

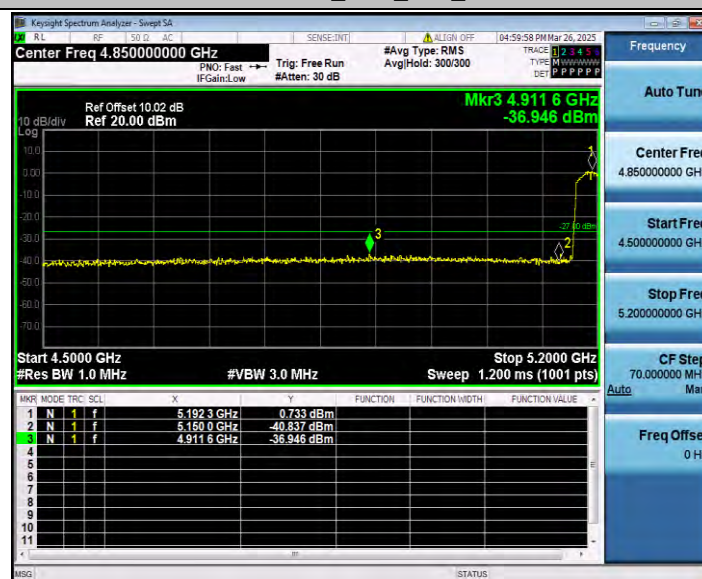




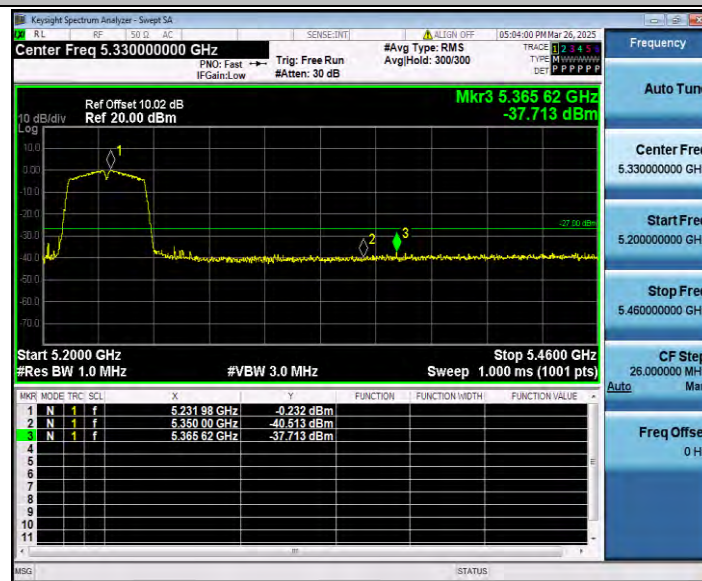
11N20SISO_Ant1_High_5240



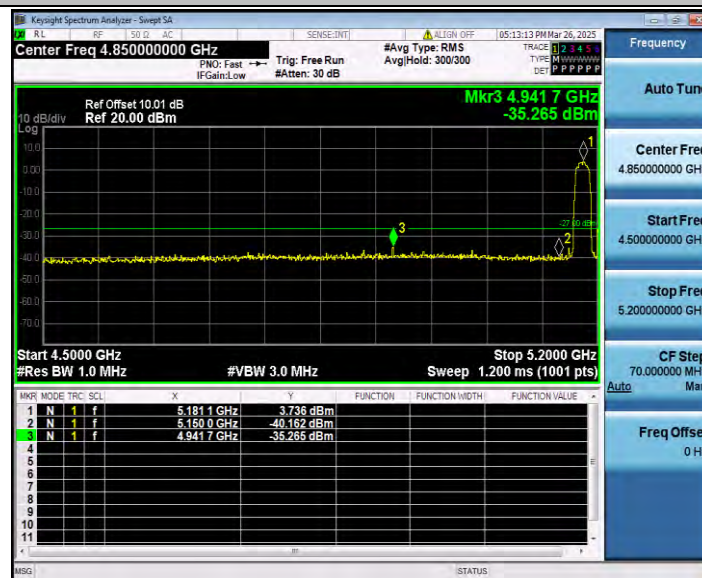
11N40SISO_Ant1_Low_5190



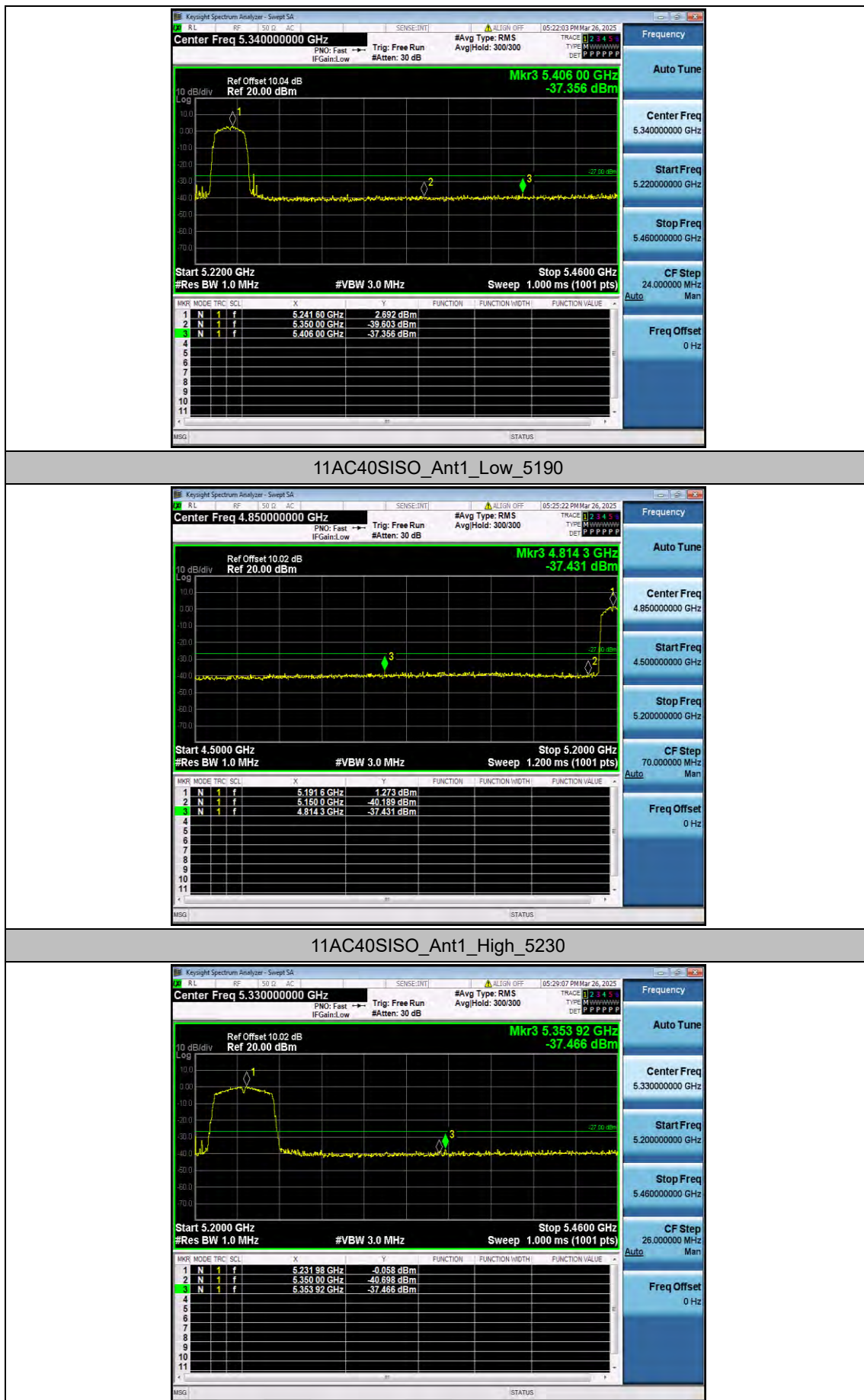
11N40SISO_Ant1_High_5230



11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210

