

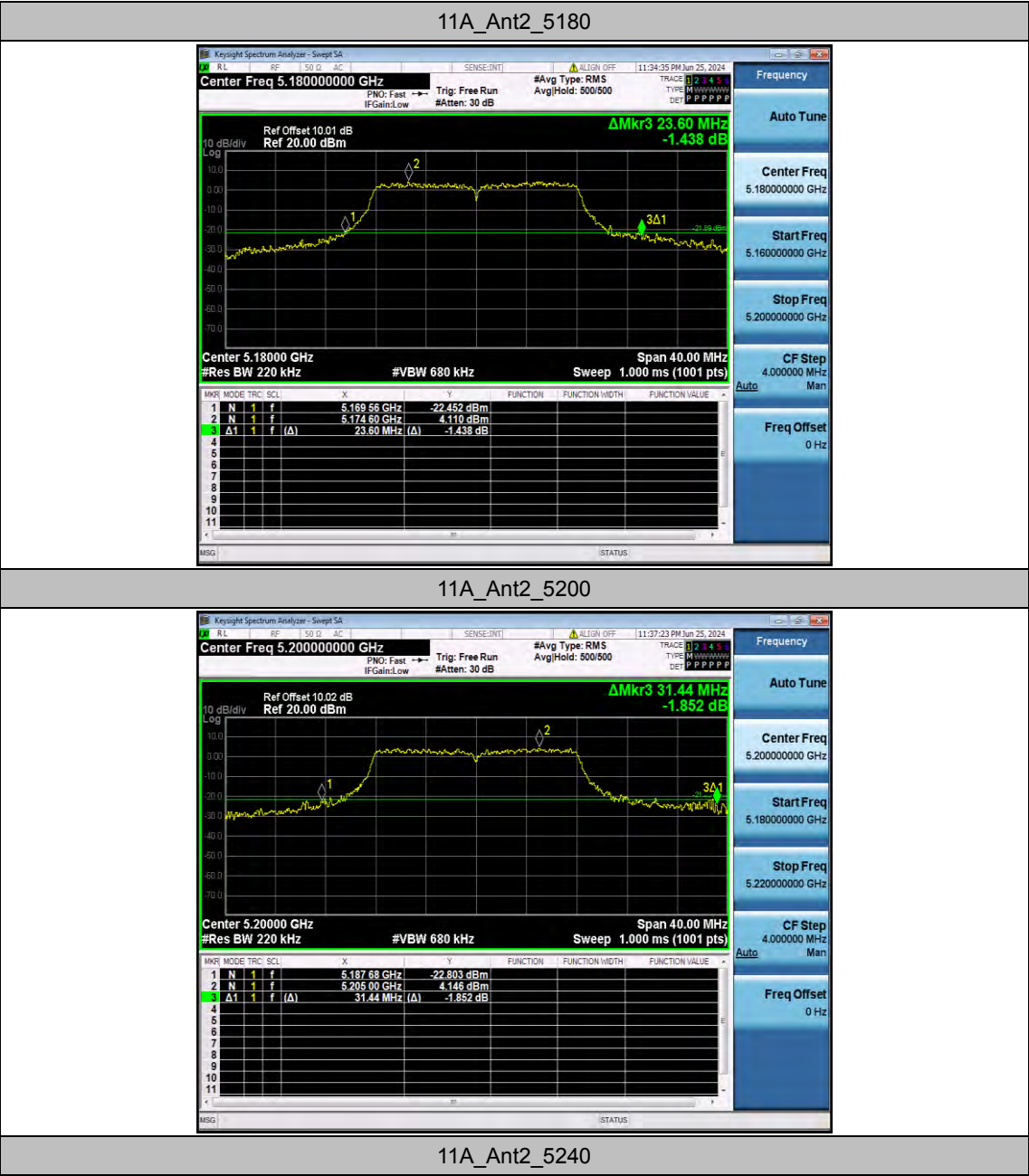
Case No. : <u>CTA24071501904</u>	
Ambient Condition: <u>21</u> °C, <u>54</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.6.20-2024.8.12</u>	Test Engineer: <u>Lushan Kong</u>

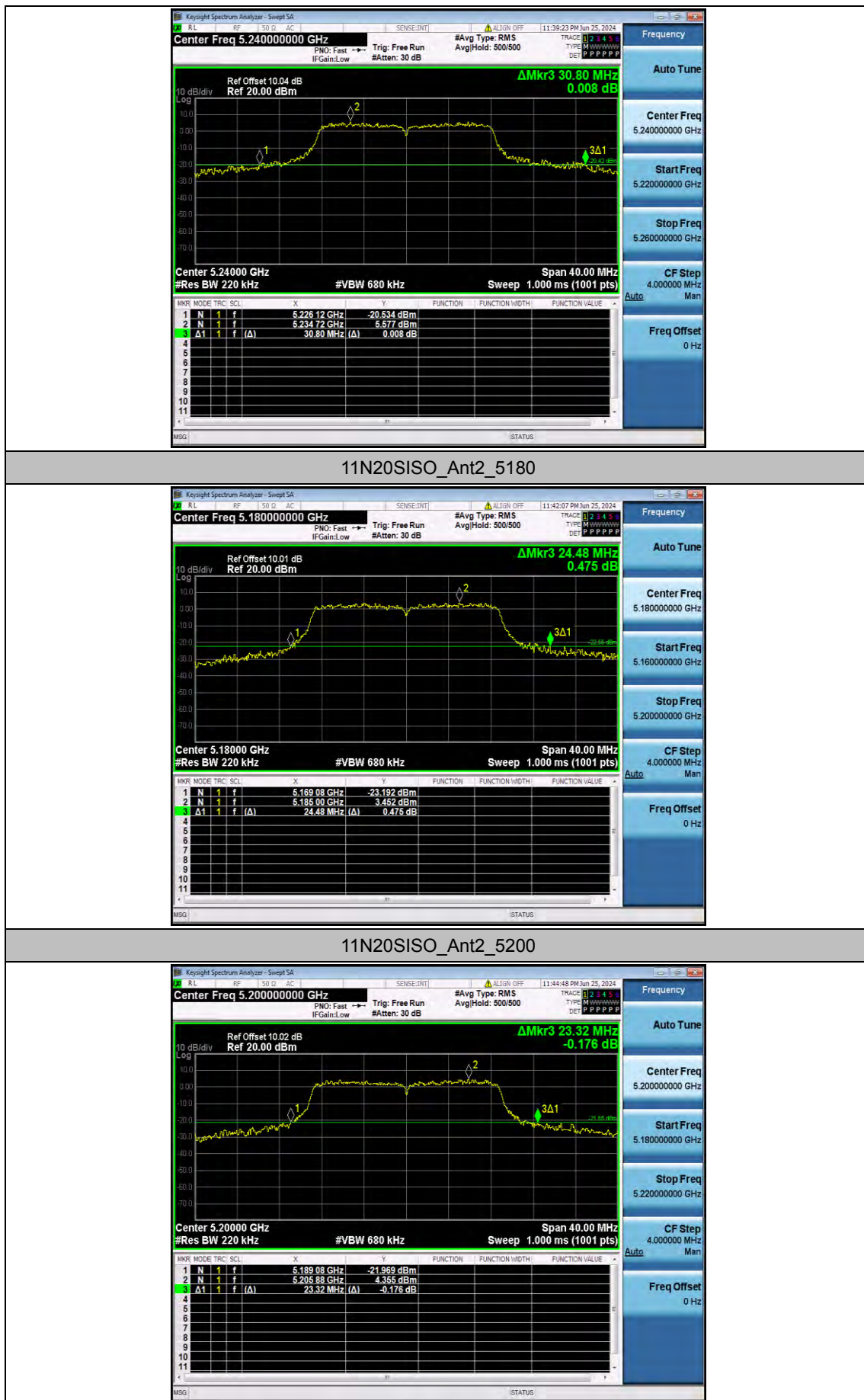
Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	23.600	5169.560	5193.160	---	---
		5200	31.440	5187.680	5219.120	---	---
		5240	30.800	5226.120	5256.920	---	---
11N20SISO	Ant2	5180	24.480	5169.080	5193.560	---	---
		5200	23.320	5189.080	5212.400	---	---
		5240	33.560	5223.080	5256.640	---	---
11N40SISO	Ant2	5190	64.640	5163.440	5228.080	---	---
		5230	40.320	5210.000	5250.320	---	---
11AC20SISO	Ant2	5180	21.640	5169.320	5190.960	---	---
		5200	21.760	5189.200	5210.960	---	---
		5240	21.640	5229.320	5250.960	---	---
11AC40SISO	Ant2	5190	42.160	5168.960	5211.120	---	---
		5230	53.920	5208.880	5262.800	---	---
11AC80SISO	Ant2	5210	92.640	5169.040	5261.680	---	---

Test Graphs

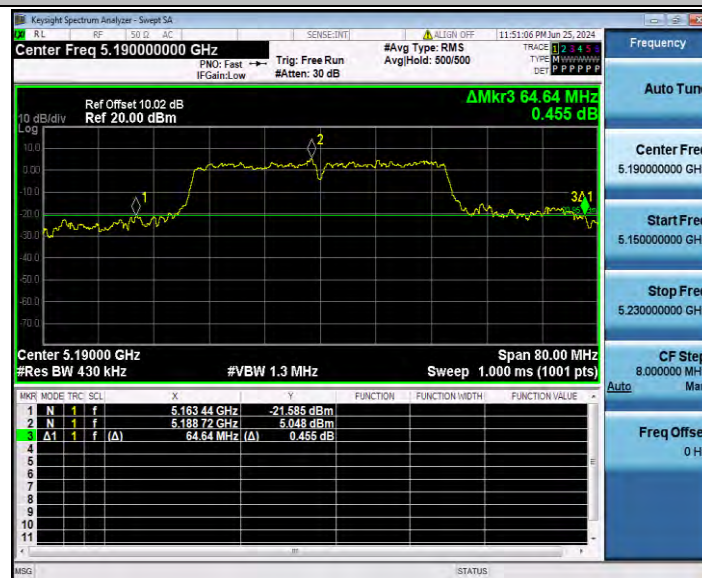




11N20SISO_Ant2_5240



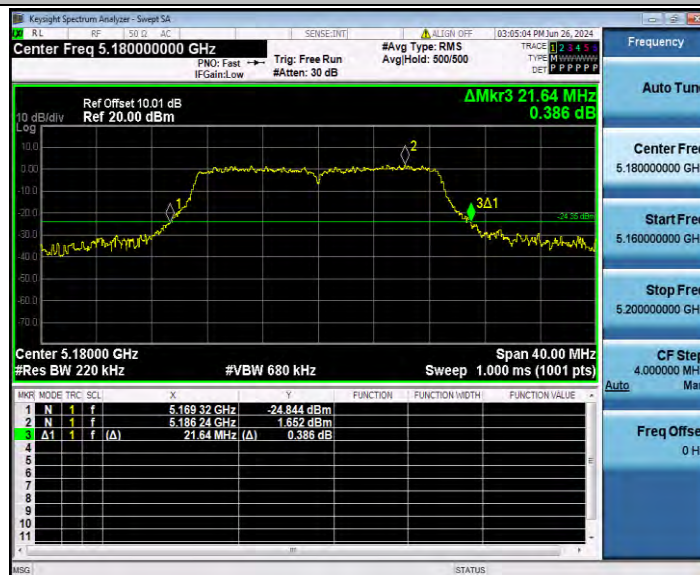
11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



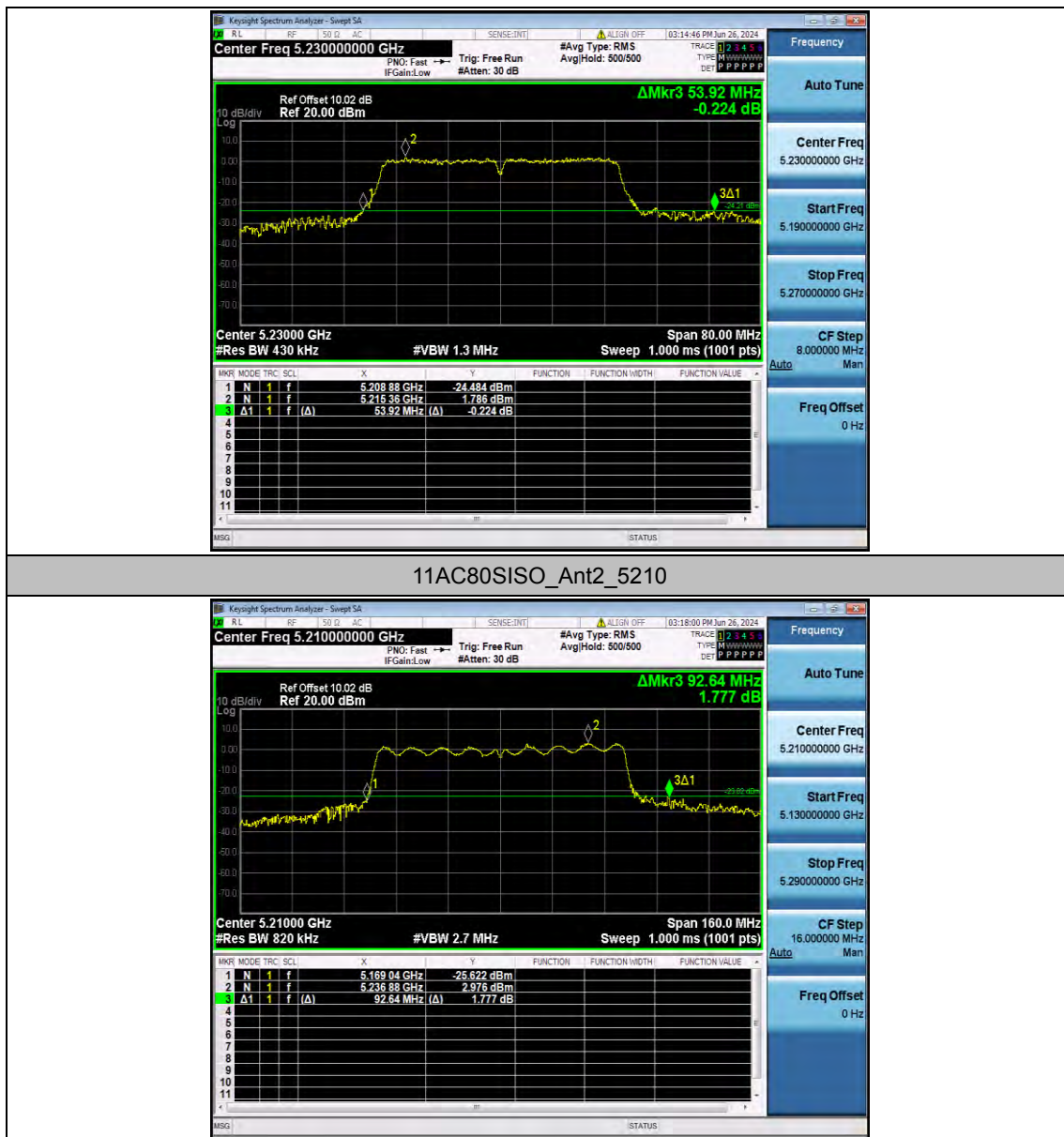
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11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



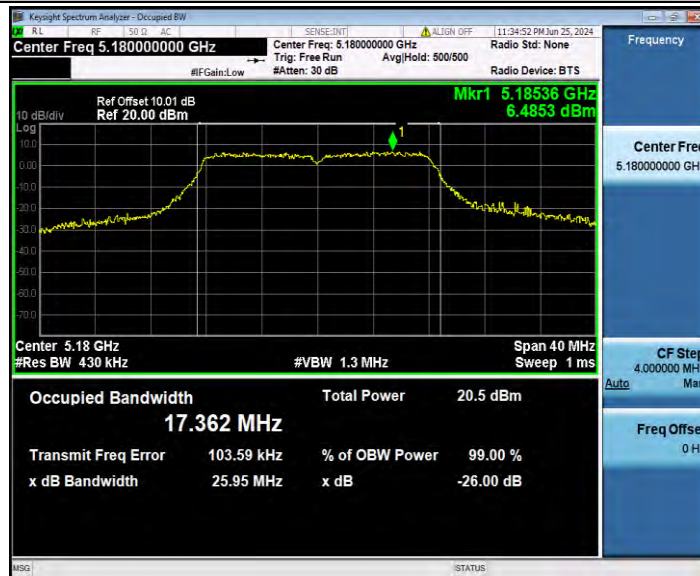
Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	17.362	5171.4226	5188.7846	---	---
		5200	17.504	5191.3175	5208.8215	---	---
		5240	18.172	5230.9602	5249.1322	---	---
11N20SISO	Ant2	5180	18.248	5170.9450	5189.1930	---	---
		5200	18.228	5190.9188	5209.1468	---	---
		5240	18.767	5230.7410	5249.5080	---	---
11N40SISO	Ant2	5190	36.591	5171.8592	5208.4502	---	---
		5230	36.472	5211.7853	5248.2573	---	---
11AC20SISO	Ant2	5180	18.170	5170.9442	5189.1142	---	---
		5200	18.186	5190.9248	5209.1108	---	---
		5240	18.180	5230.9234	5249.1034	---	---
11AC40SISO	Ant2	5190	36.899	5171.6512	5208.5502	---	---
		5230	37.020	5211.5981	5248.6181	---	---
11AC80SISO	Ant2	5210	76.304	5172.0632	5248.3672	---	---

Test Graphs

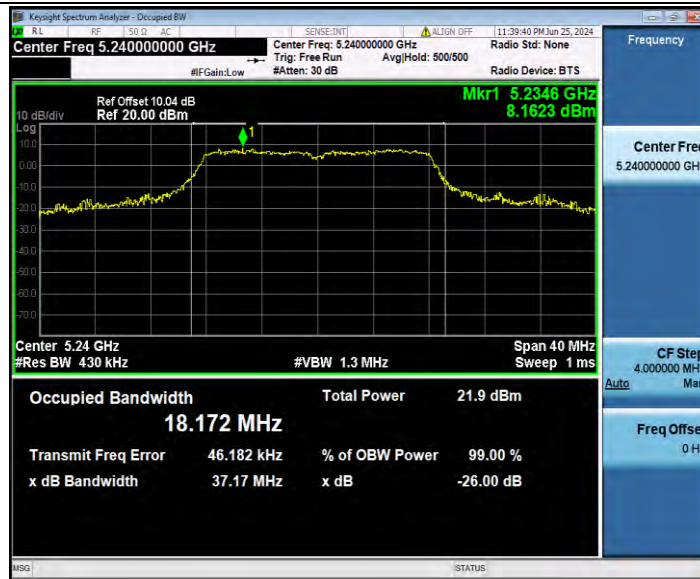
11A_Ant2_5180



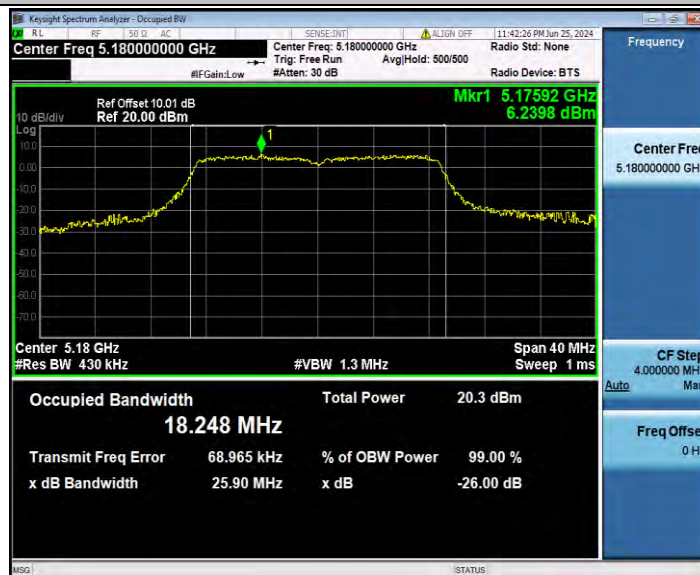
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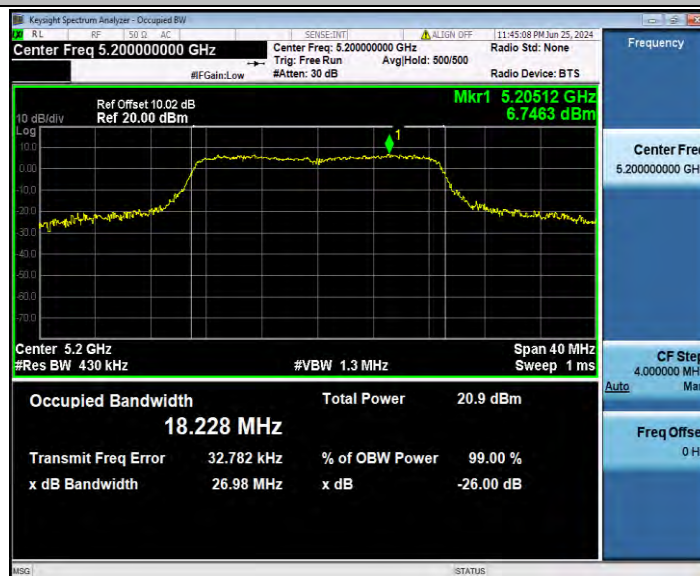
11A_Ant2_5240



11N20SISO_Ant2_5180



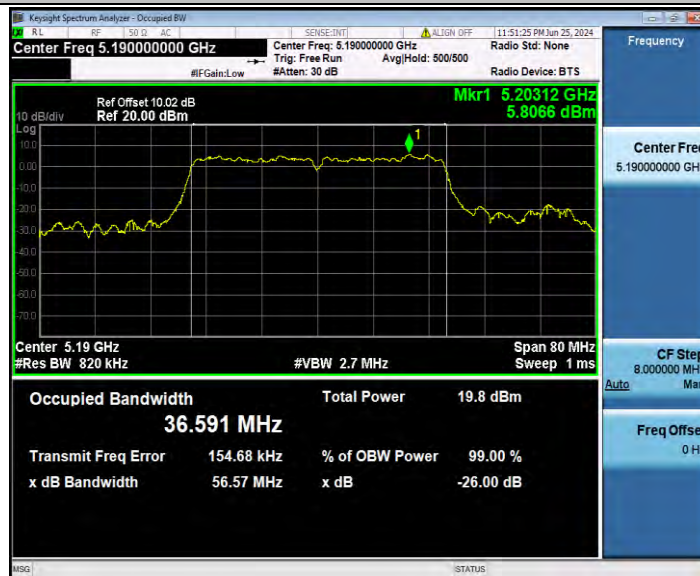
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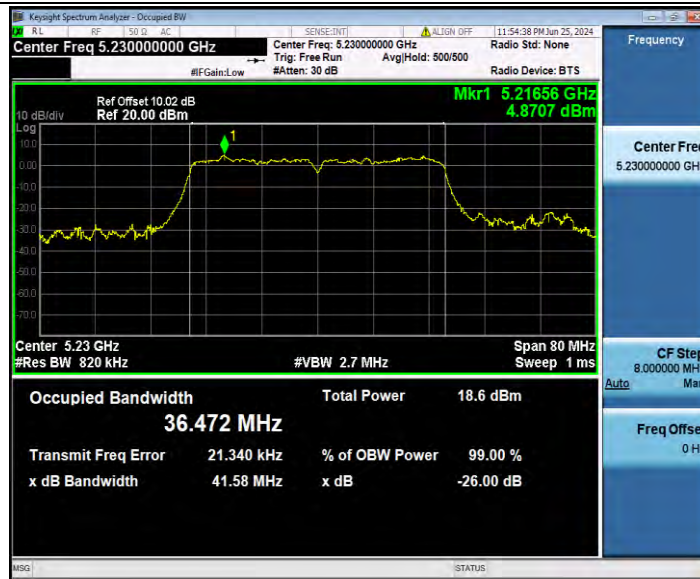
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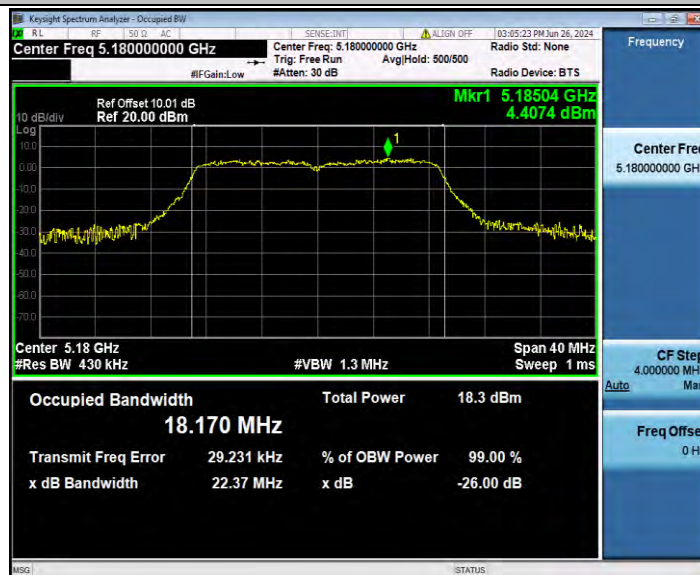
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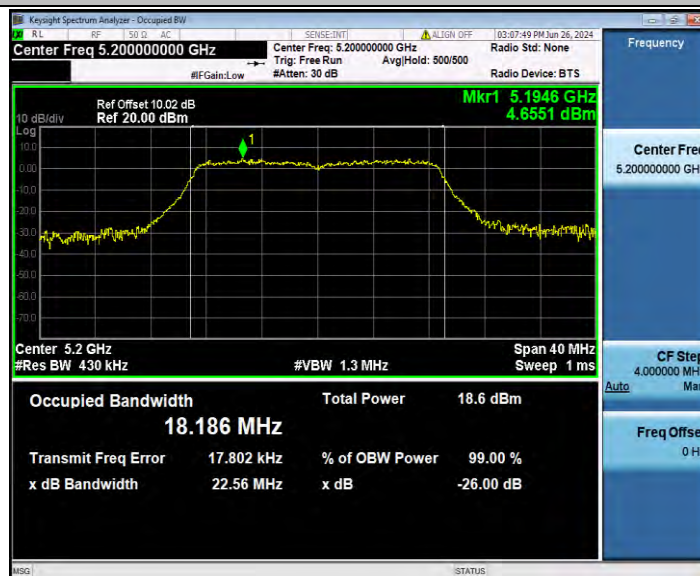
11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



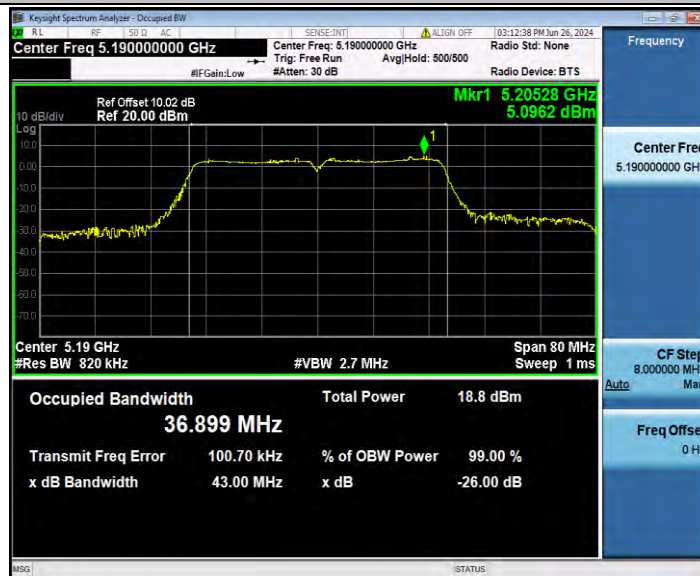
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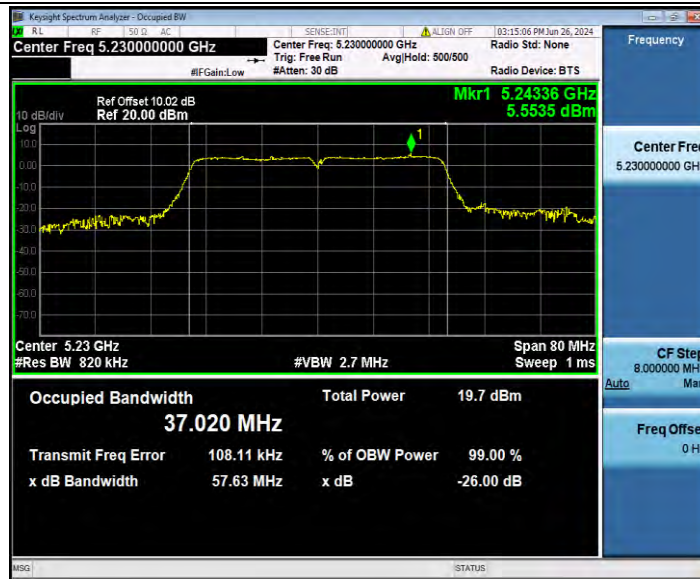
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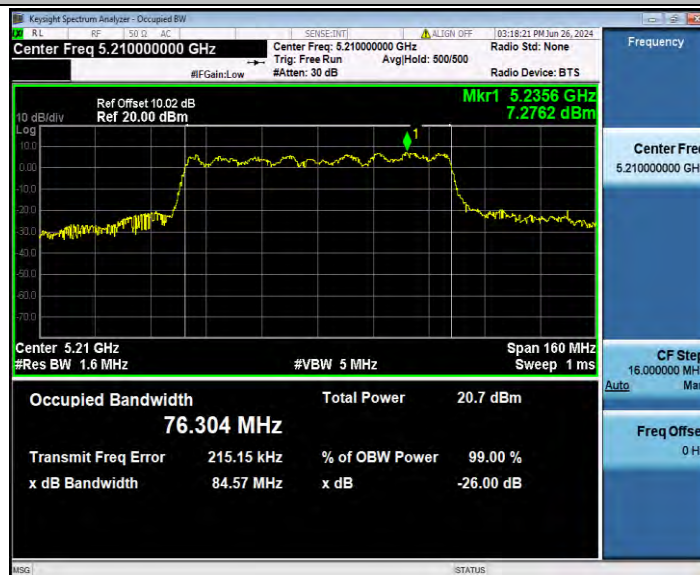
11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210

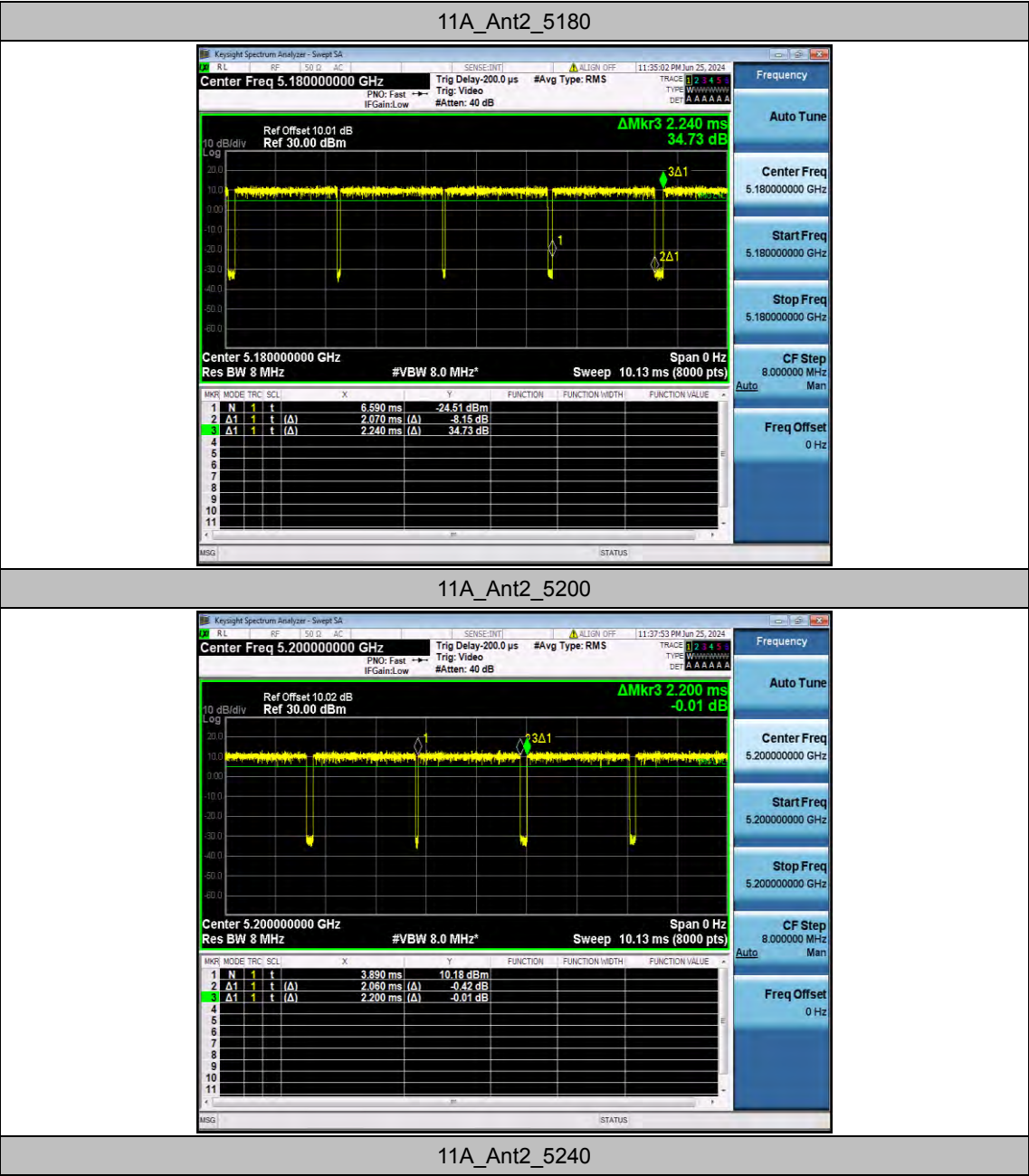


Appendix D.3: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant2	5180	2.07	2.24	92.41	0.34	0.48
		5200	2.06	2.20	93.64	0.29	0.49
		5240	2.07	2.37	87.34	0.59	0.48
11N20SISO	Ant2	5180	1.92	2.08	92.31	0.35	0.52
		5200	1.92	2.02	95.05	0.22	0.52
		5240	1.92	2.05	93.66	0.28	0.52
11N40SISO	Ant2	5190	0.13	0.30	43.33	3.63	7.69
		5230	0.12	0.31	38.71	4.12	8.33
11AC20SISO	Ant2	5180	1.93	2.09	92.34	0.35	0.52
		5200	1.93	2.07	93.24	0.30	0.52
		5240	1.93	2.06	93.69	0.28	0.52
11AC40SISO	Ant2	5190	0.95	1.10	86.36	0.64	1.05
		5230	0.95	1.41	67.38	1.71	1.05
11AC80SISO	Ant2	5210	0.46	0.63	73.02	1.37	2.17

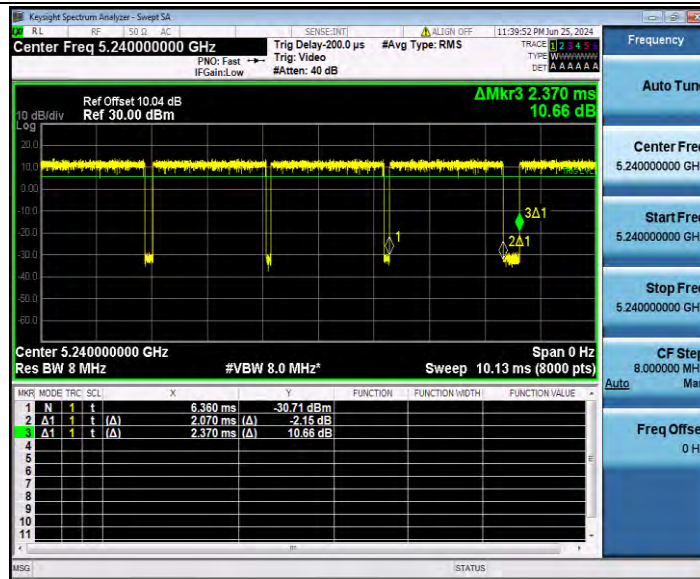
Test Graphs



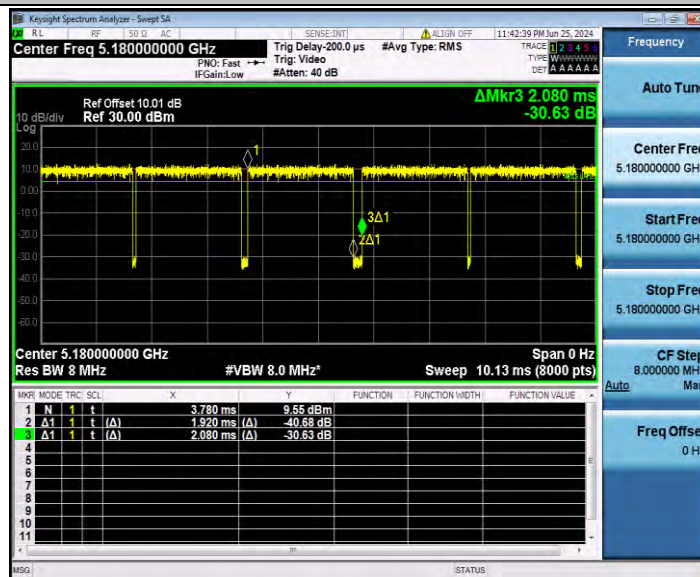
11A_Ant2_5200

Frequency
Auto Tune
Center Freq 5.200000000 GHz
Start Freq 5.200000000 GHz
Stop Freq 5.200000000 GHz
CF Step 8.00000000 MHz
Freq Offset 0 Hz

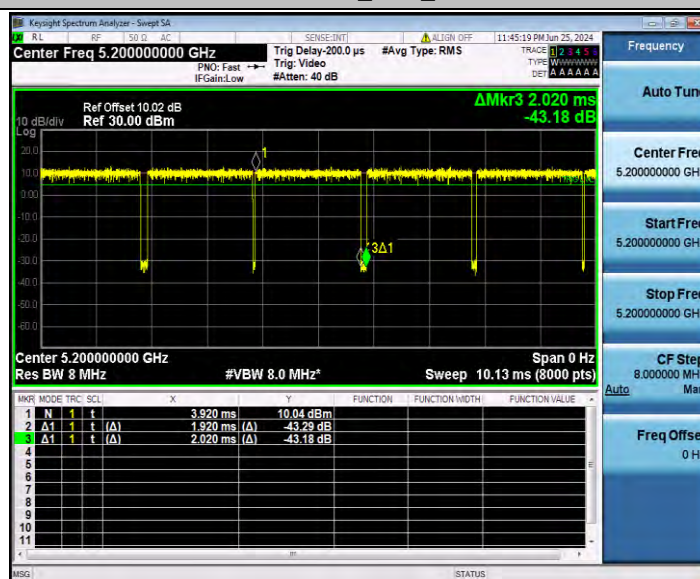
11A_Ant2_5240



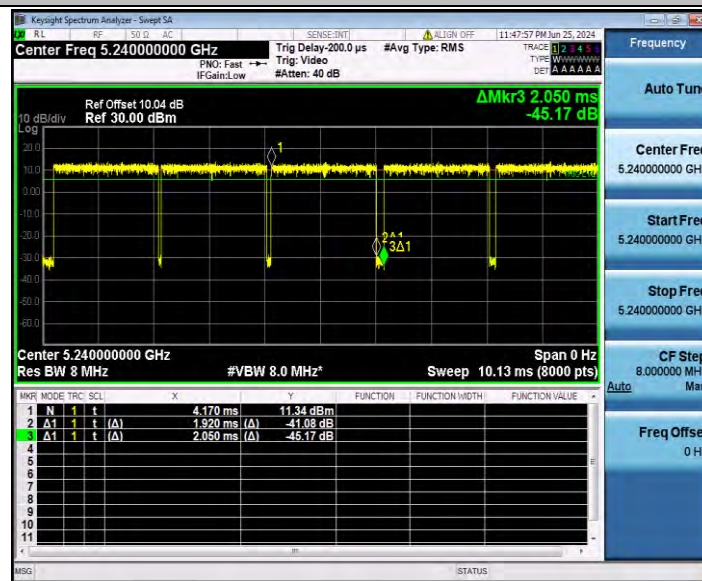
11N20SISO_Ant2_5180



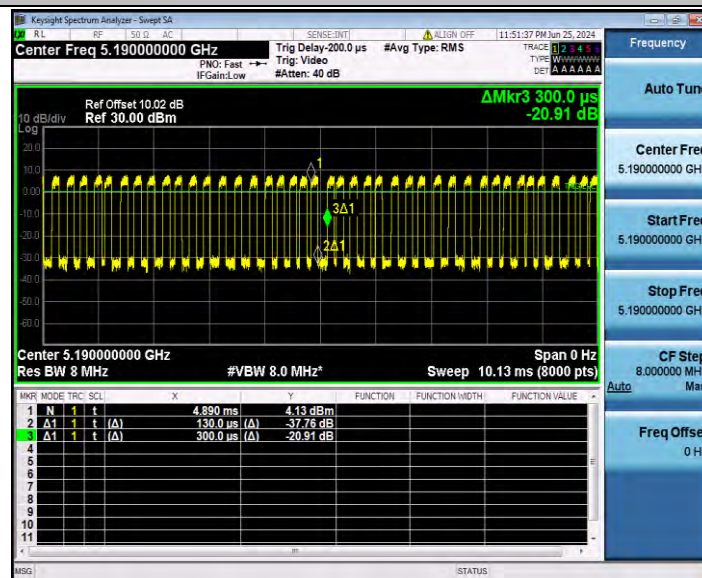
11N20SISO_Ant2_5200



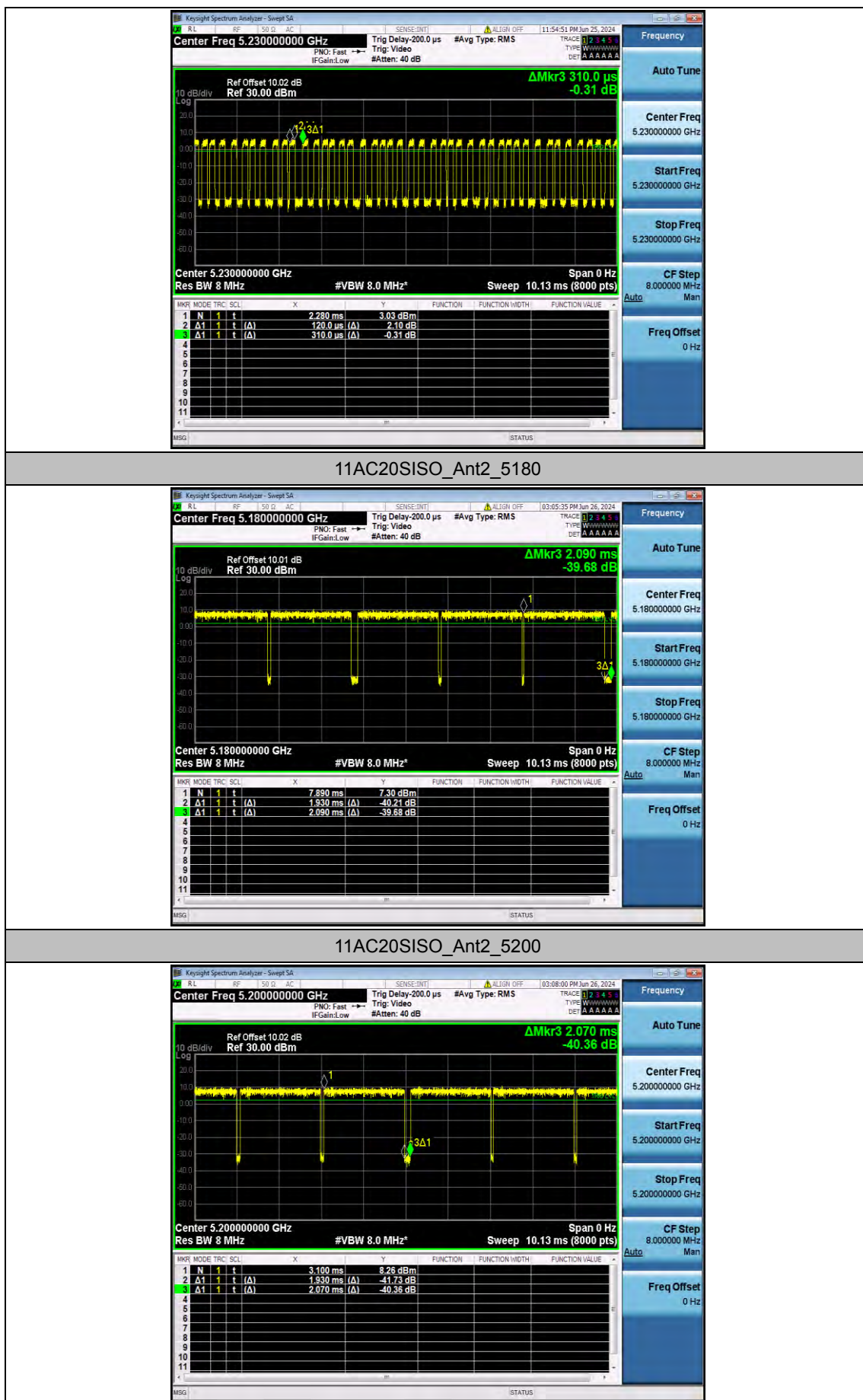
11N20SISO_Ant2_5240

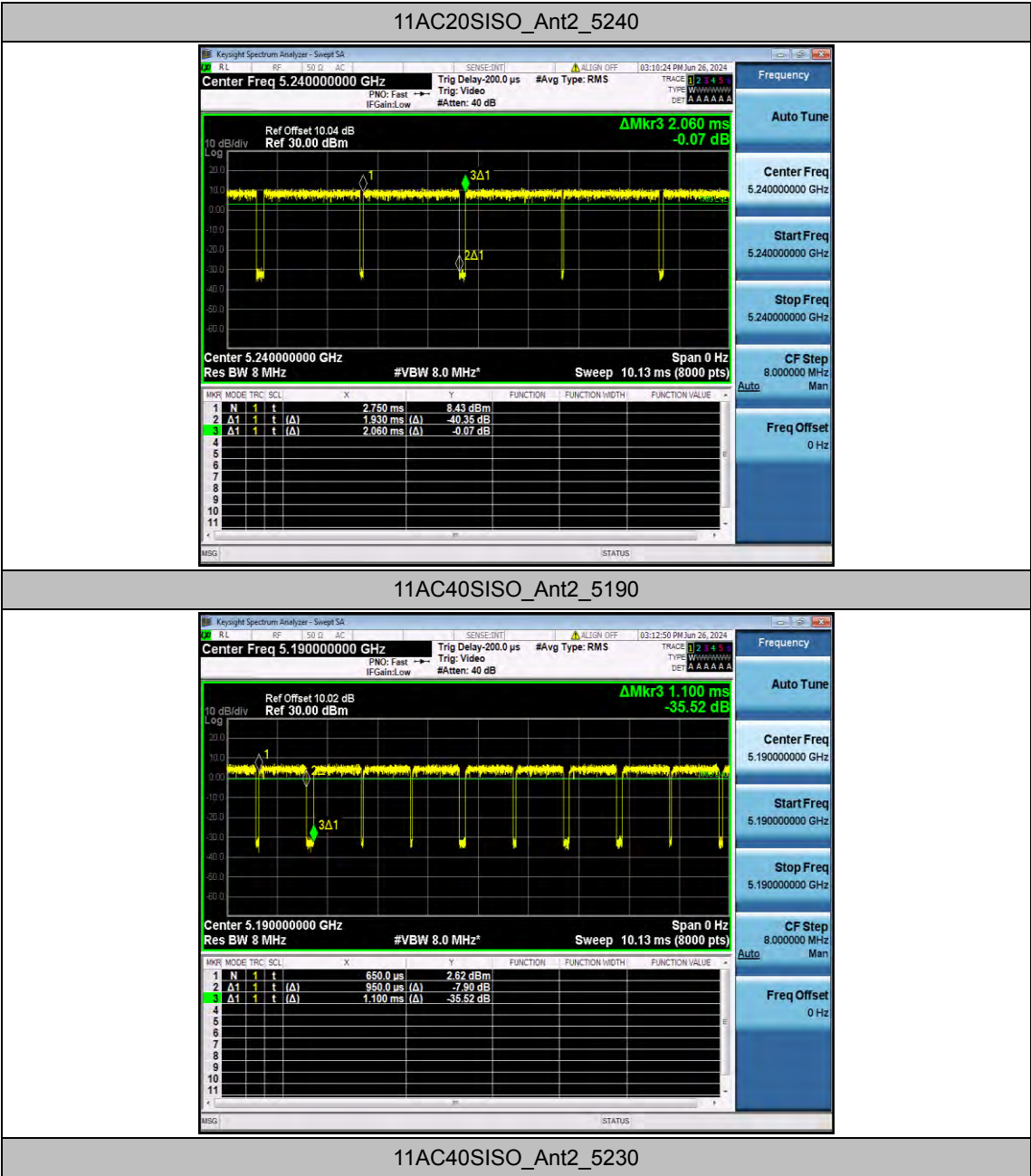


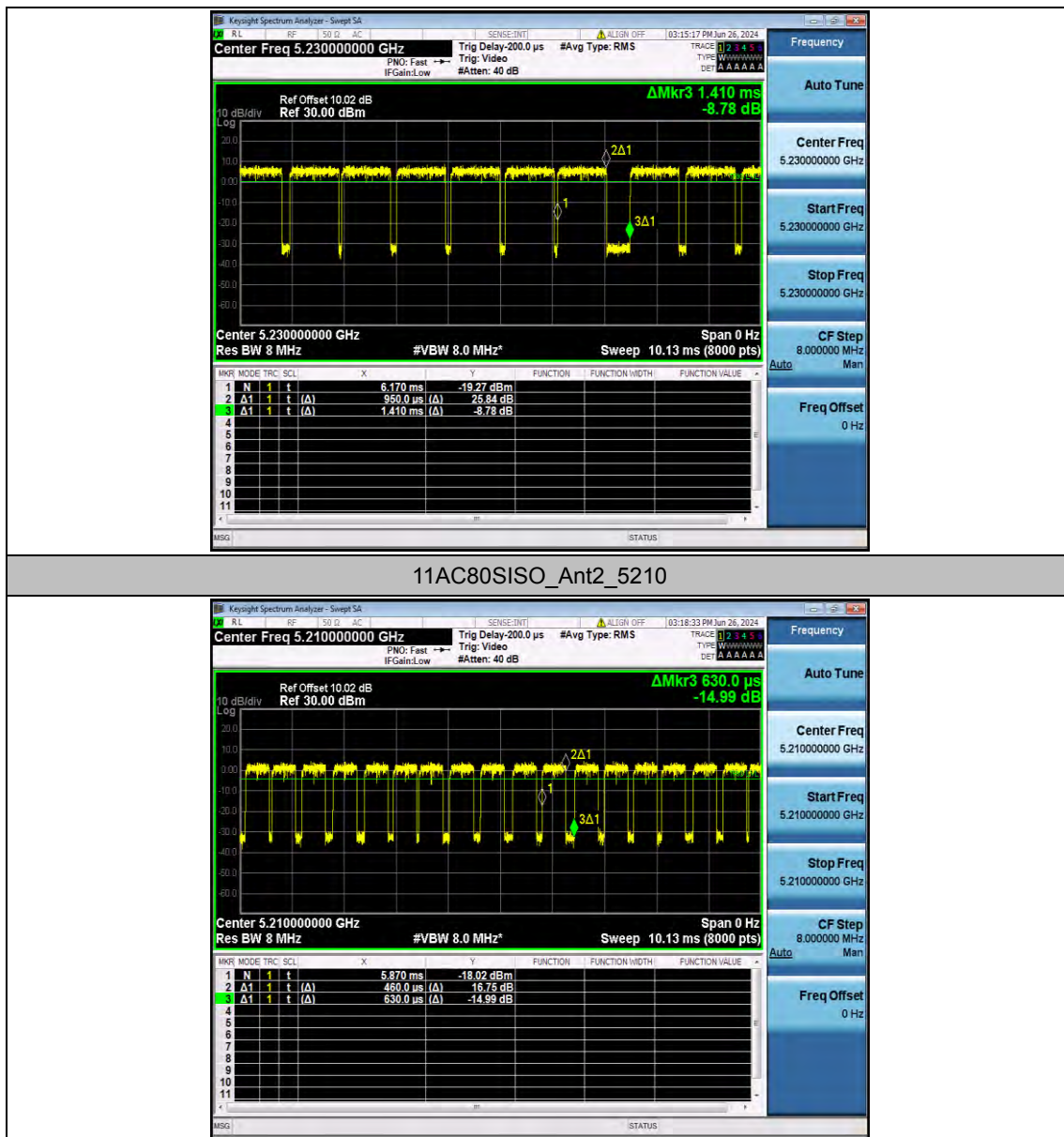
11N40SISO_Ant2_5190



11N40SISO_Ant2_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	Ant2	5180	13.46	92.41	0.34	13.80	≤23.98	PASS
		5200	13.92	93.64	0.29	14.21	≤23.98	PASS
		5240	14.73	87.34	0.59	15.32	≤23.98	PASS
11N20SISO	Ant2	5180	13.19	92.31	0.35	13.54	≤23.98	PASS
		5200	13.89	95.05	0.22	14.11	≤23.98	PASS
		5240	14.39	93.66	0.28	14.67	≤23.98	PASS
11N40SISO	Ant2	5190	9.85	43.33	3.63	13.48	≤23.98	PASS
		5230	8.23	38.71	4.12	12.35	≤23.98	PASS
11AC20SISO	Ant2	5180	11.20	92.34	0.35	11.55	≤23.98	PASS
		5200	11.57	93.24	0.30	11.87	≤23.98	PASS
		5240	12.19	93.69	0.28	12.47	≤23.98	PASS
11AC40SISO	Ant2	5190	11.05	86.36	0.64	11.69	≤23.98	PASS
		5230	11.82	67.38	1.71	13.53	≤23.98	PASS
11AC80SISO	Ant2	5210	10.90	73.02	1.37	12.27	≤23.98	PASS

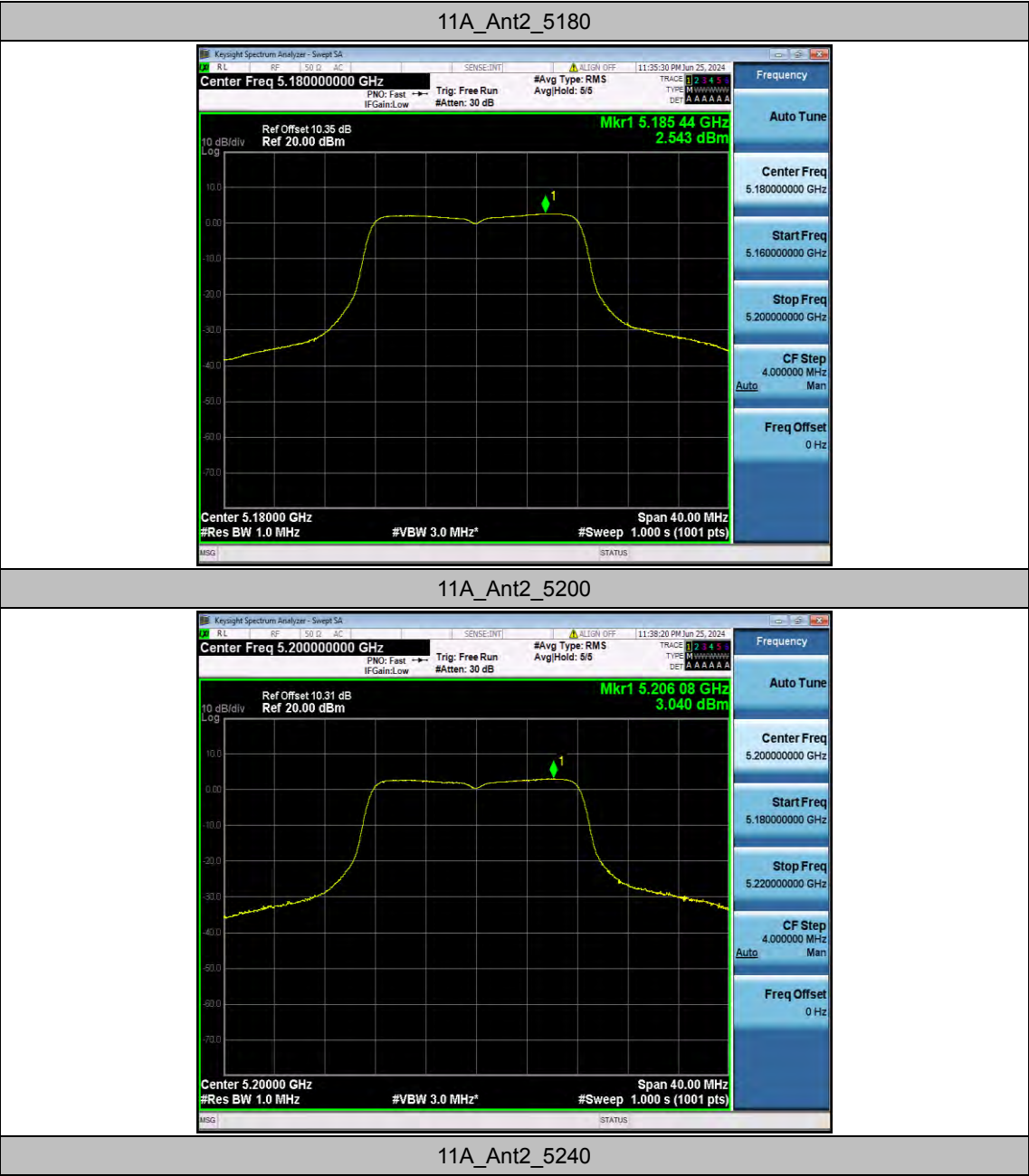
Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5180	2.54	≤11.00	PASS
		5200	3.04	≤11.00	PASS
		5240	4.40	≤11.00	PASS
11N20SISO	Ant2	5180	2.25	≤11.00	PASS
		5200	2.65	≤11.00	PASS
		5240	3.68	≤11.00	PASS
11N40SISO	Ant2	5190	0.74	≤11.00	PASS
		5230	-0.39	≤11.00	PASS
11AC20SISO	Ant2	5180	-0.02	≤11.00	PASS
		5200	0.28	≤11.00	PASS
		5240	0.85	≤11.00	PASS
11AC40SISO	Ant2	5190	-2.42	≤11.00	PASS
		5230	-0.36	≤11.00	PASS
11AC80SISO	Ant2	5210	-2.46	≤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





11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230

