

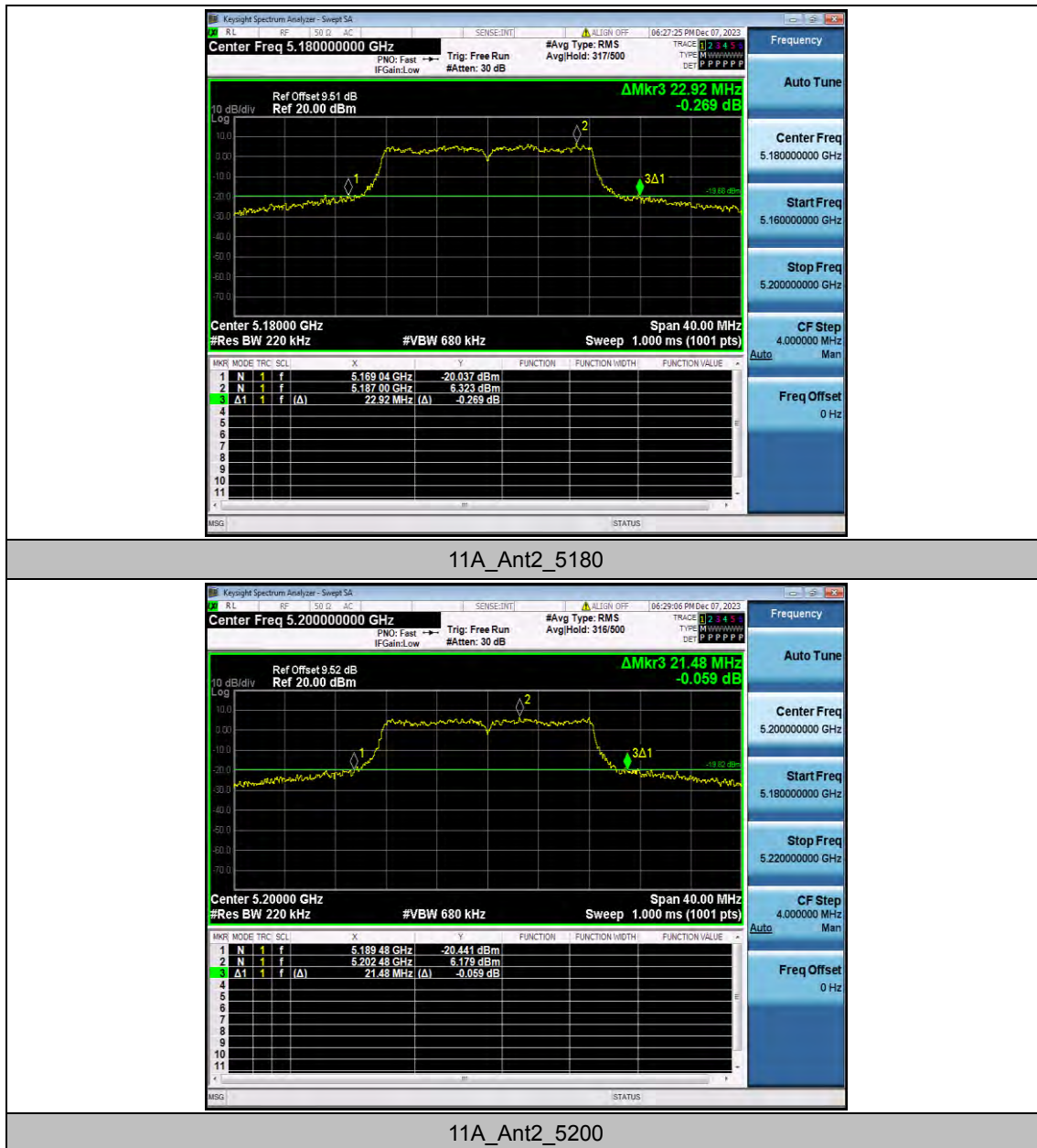
Case No. : <u>GTS20231012003-1-11</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.12.7</u>	Test Engineer: <u>Evan ouyang</u>

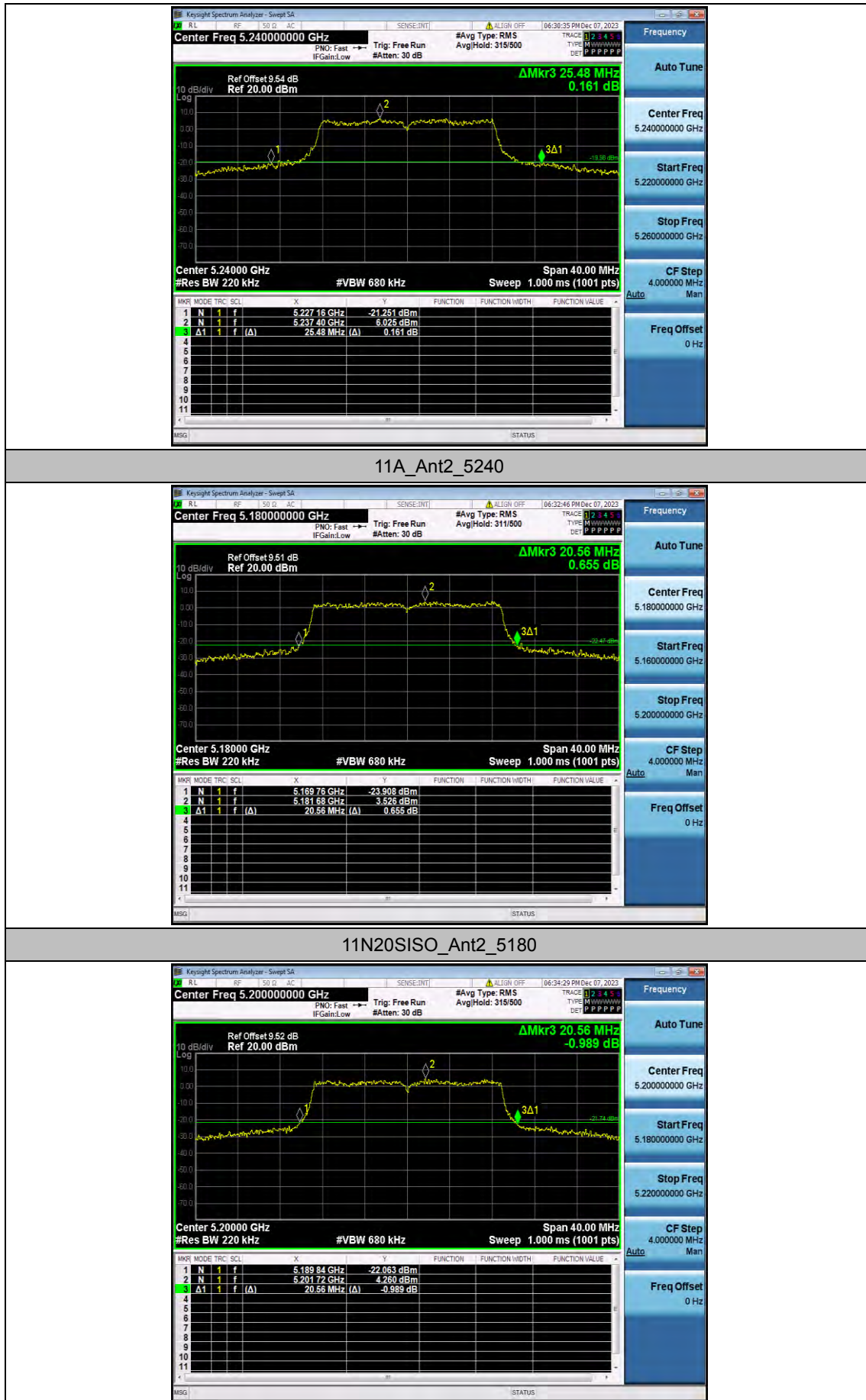
Appendix D.1: Emission Bandwidth

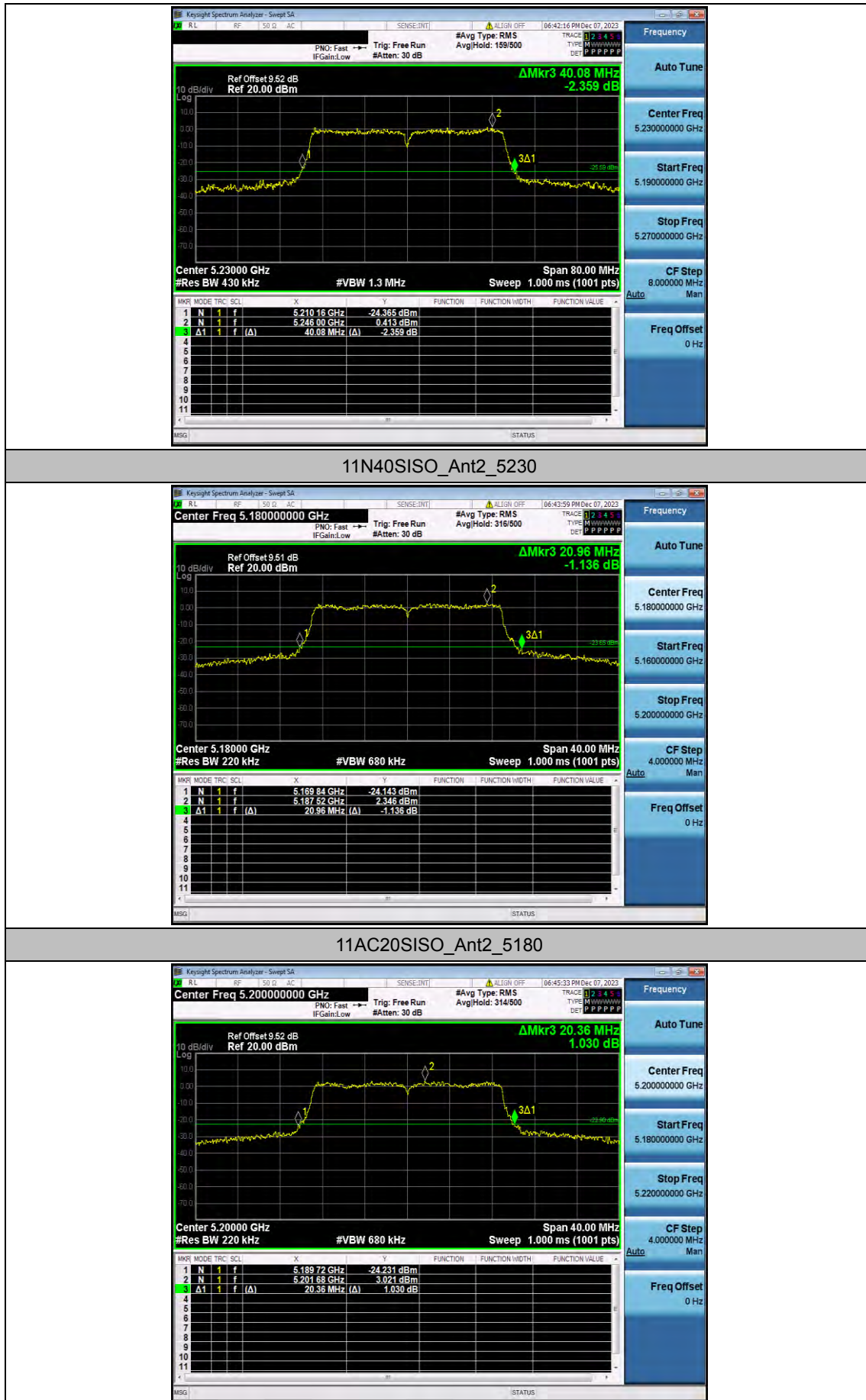
Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	22.920	5169.040	5191.960	---	---
		5200	21.480	5189.480	5210.960	---	---
		5240	25.480	5227.160	5252.640	---	---
11N20SISO	Ant2	5180	20.560	5169.760	5190.320	---	---
		5200	20.560	5189.840	5210.400	---	---
		5240	20.560	5229.640	5250.200	---	---
11N40SISO	Ant2	5190	40.000	5170.240	5210.240	---	---
		5230	40.080	5210.160	5250.240	---	---
11AC20SISO	Ant2	5180	20.960	5169.840	5190.800	---	---
		5200	20.360	5189.720	5210.080	---	---
		5240	20.560	5229.720	5250.280	---	---
11AC40SISO	Ant2	5190	40.560	5170.000	5210.560	---	---
		5230	41.280	5209.600	5250.880	---	---
11AC80SISO	Ant2	5210	90.400	5165.040	5255.440	---	---

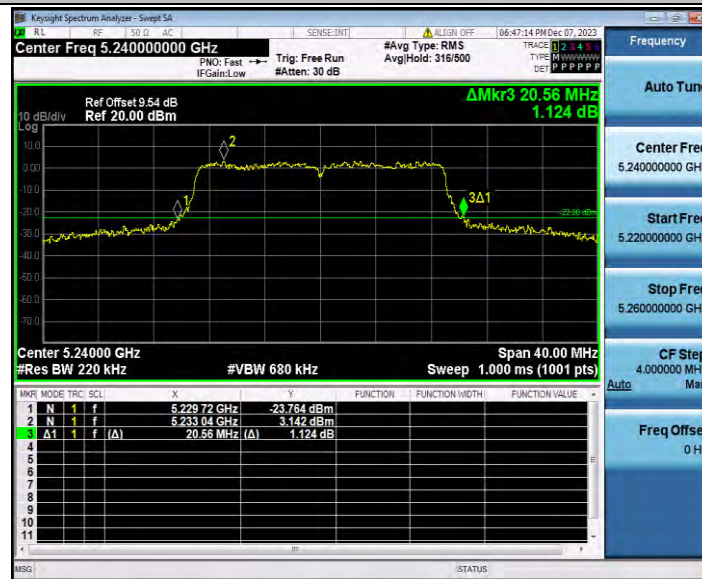
Test Graphs



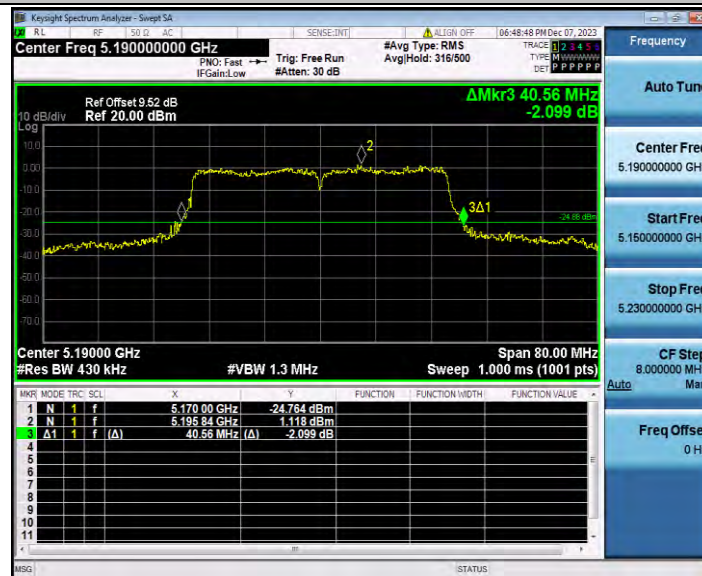




11AC20SISO_Ant2_5200



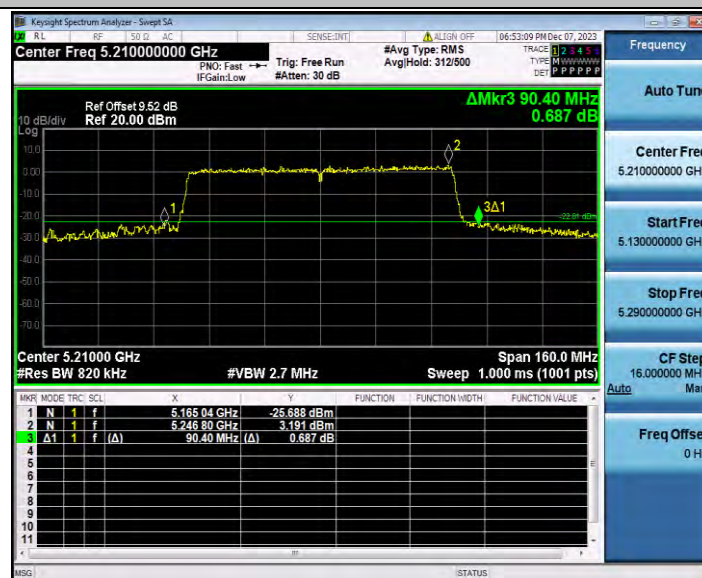
11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210

Appendix D.2: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	17.120	5171.491	5188.611	---	---
		5200	17.094	5191.470	5208.564	---	---
		5240	17.144	5231.439	5248.583	---	---
11N20SISO	Ant2	5180	17.952	5171.041	5188.993	---	---
		5200	17.982	5191.026	5209.008	---	---
		5240	18.003	5231.018	5249.021	---	---
11N40SISO	Ant2	5190	36.554	5171.780	5208.334	---	---
		5230	36.490	5211.794	5248.284	---	---
11AC20SISO	Ant2	5180	17.917	5171.100	5189.017	---	---
		5200	17.904	5191.063	5208.967	---	---
		5240	17.978	5231.044	5249.022	---	---
11AC40SISO	Ant2	5190	36.571	5171.777	5208.348	---	---
		5230	36.617	5211.730	5248.347	---	---
11AC80SISO	Ant2	5210	76.561	5171.948	5248.509	---	---

Test Graphs



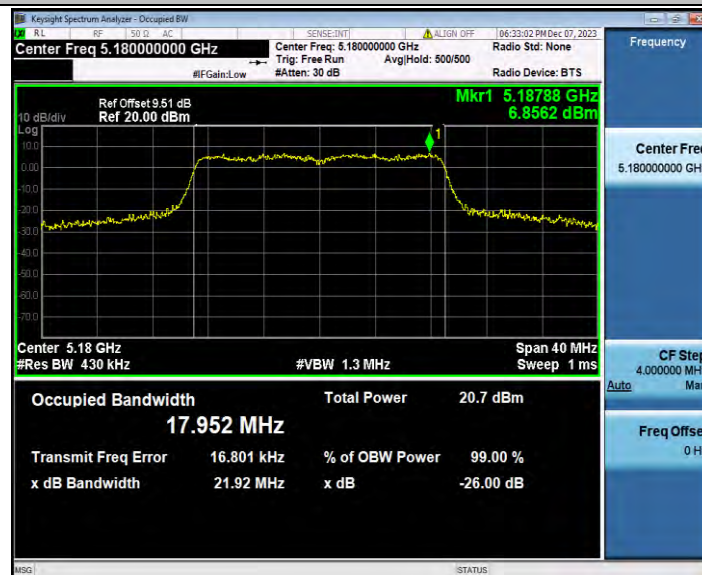
11A_Ant2_5180



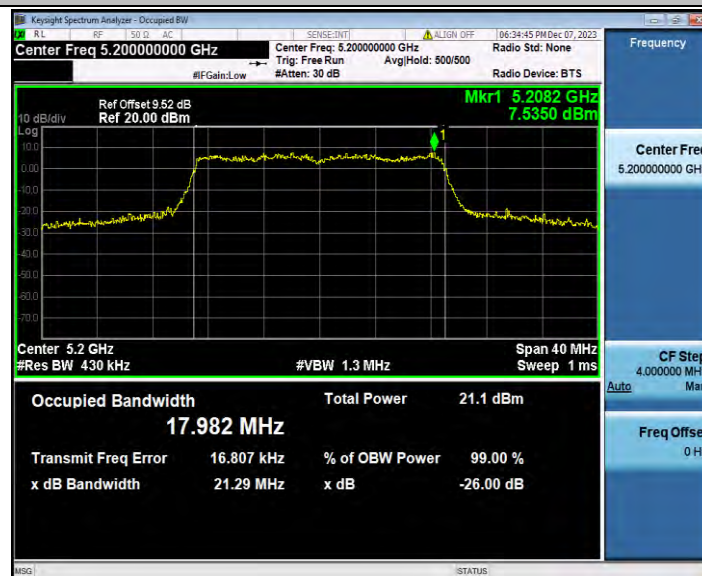
11A_Ant2_5200



11A_Ant2_5240



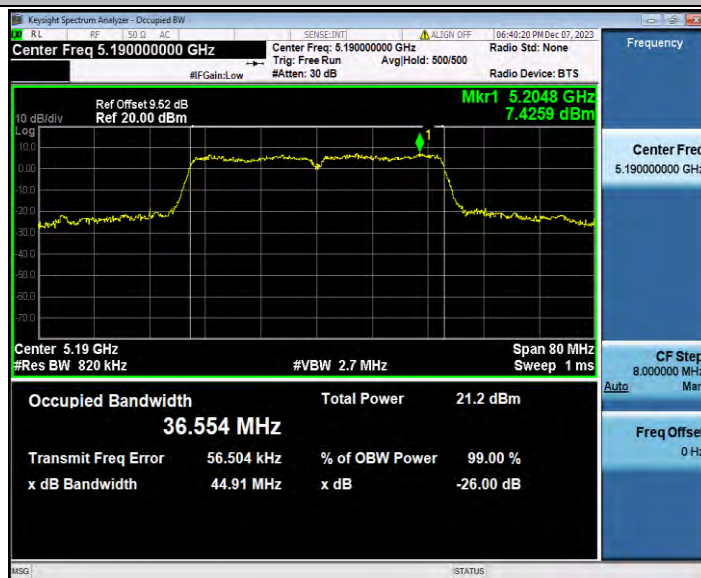
11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



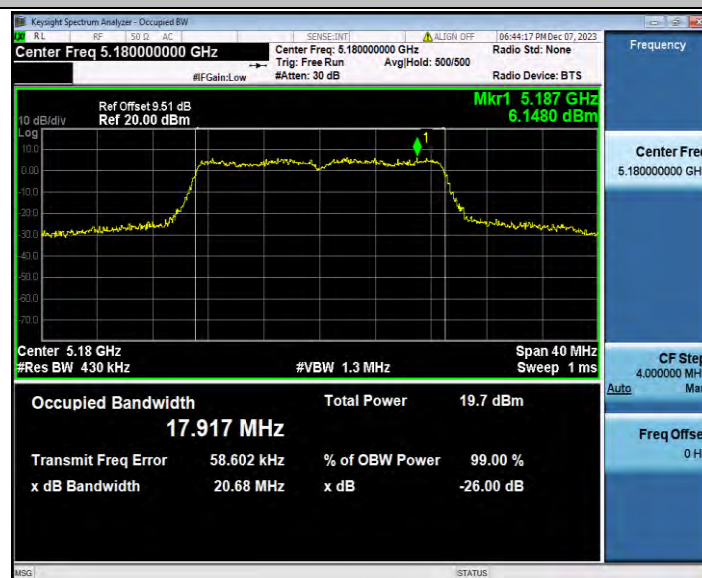
11N20SISO_Ant2_5240



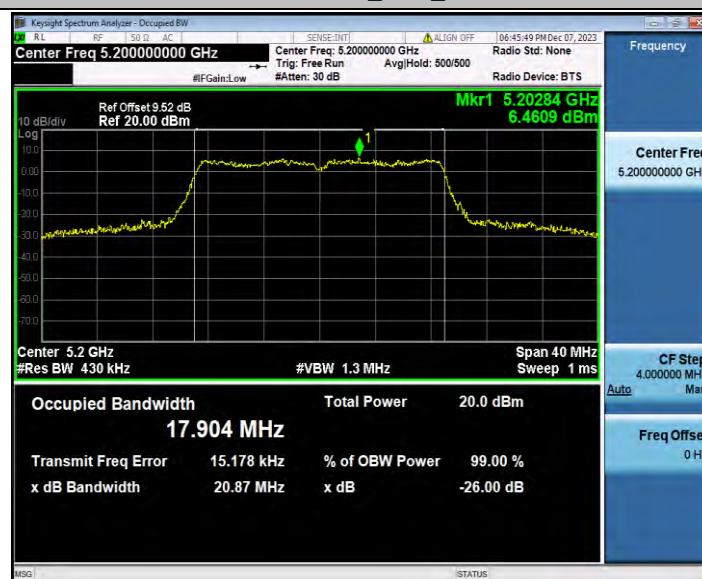
11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



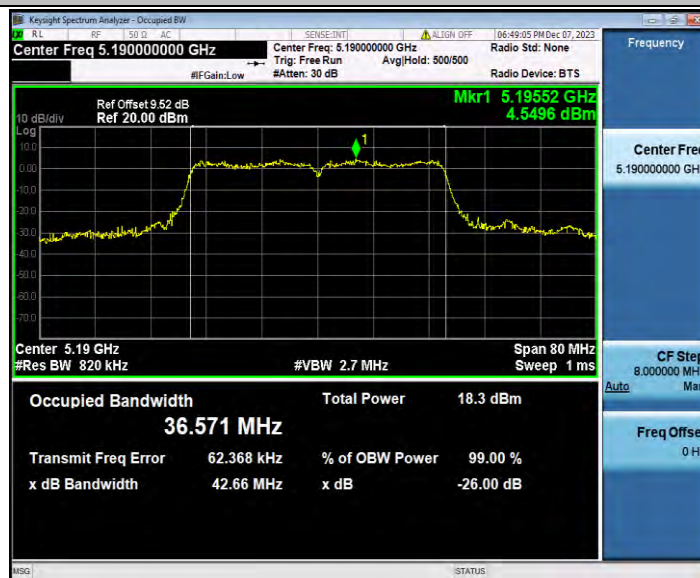
11AC20SISO_Ant2_5180



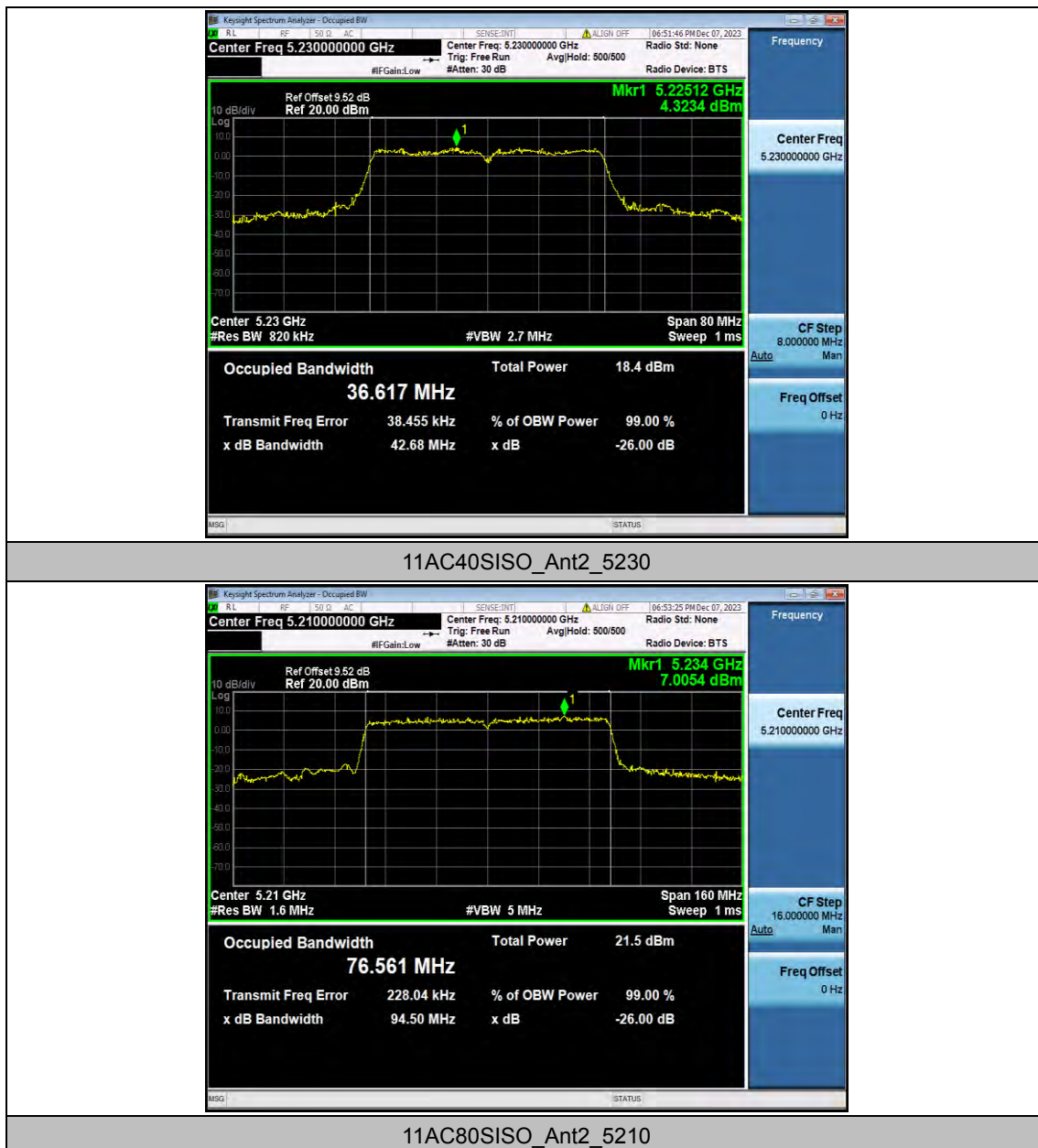
11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190

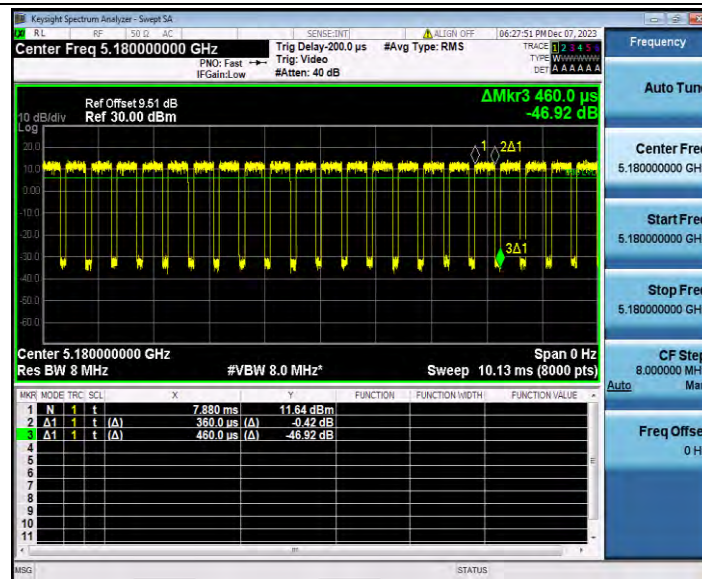


Appendix D.3: Duty Cycle

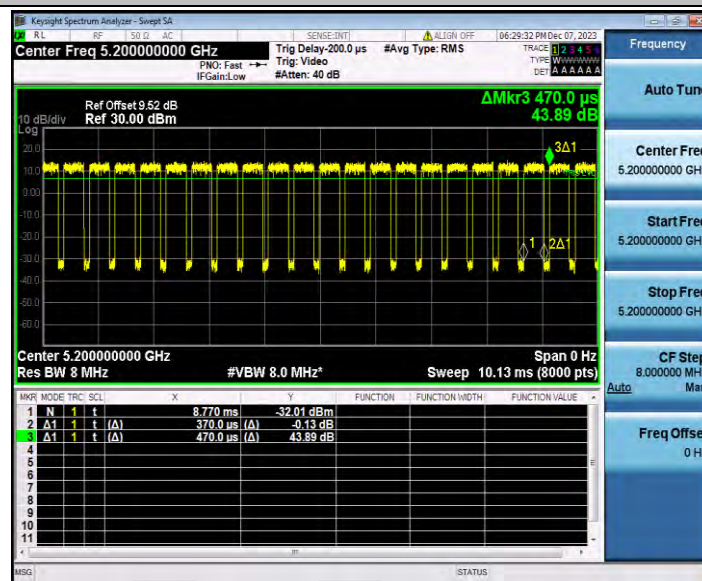
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5180	0.36	0.46	78.26
		5200	0.37	0.47	78.72
		5240	0.37	0.48	77.08
11N20SISO	Ant2	5180	0.51	0.61	83.61
		5200	0.52	0.62	83.87
		5240	0.51	0.62	82.26
11N40SISO	Ant2	5190	0.26	0.37	70.27
		5230	0.26	0.37	70.27
11AC20SISO	Ant2	5180	0.43	0.54	79.63
		5200	0.43	0.55	78.18
		5240	0.44	0.54	81.48
11AC40SISO	Ant2	5190	0.21	0.31	67.74
		5230	0.21	0.31	67.74
11AC80SISO	Ant2	5210	0.12	0.22	54.55

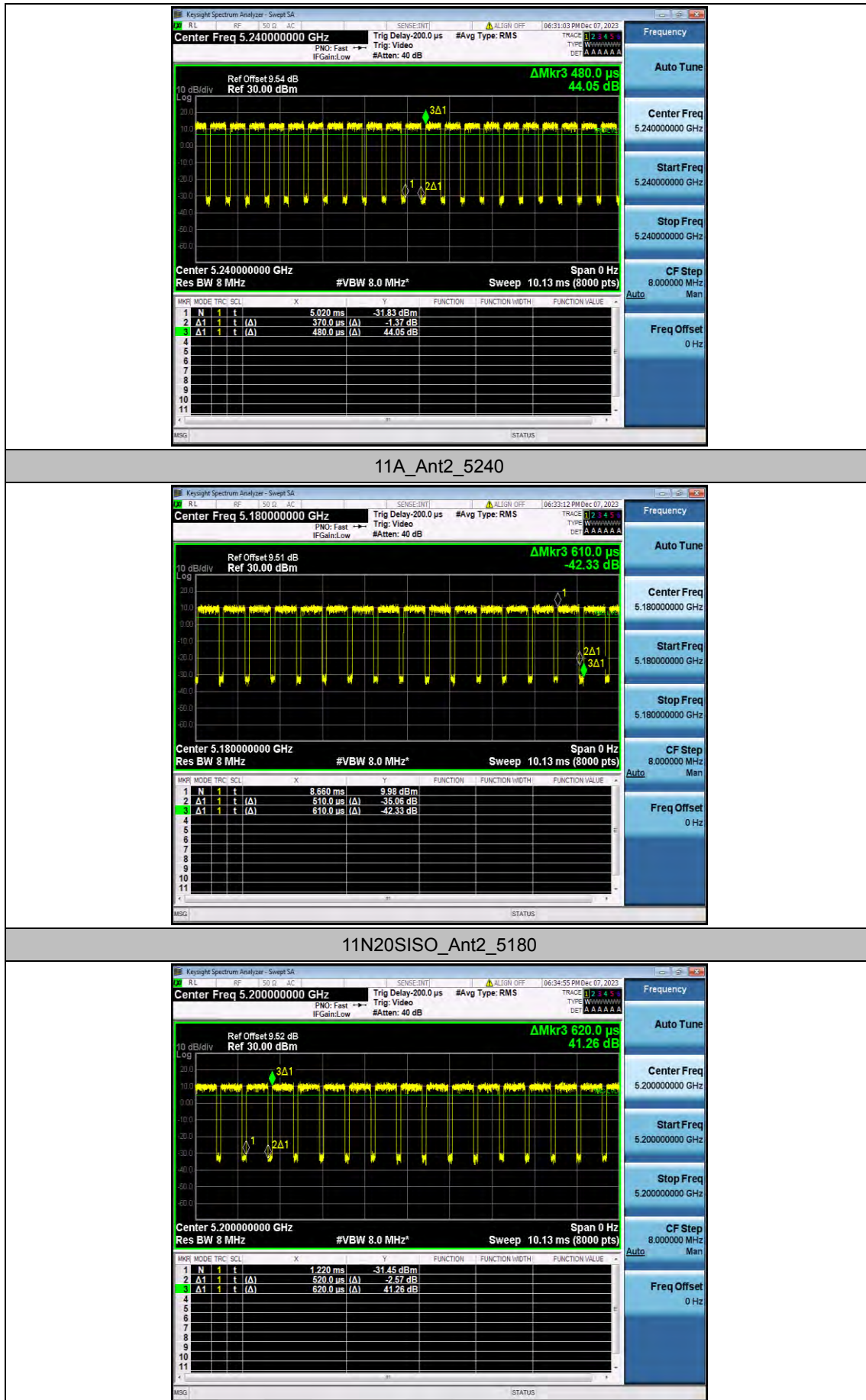
Test Graphs



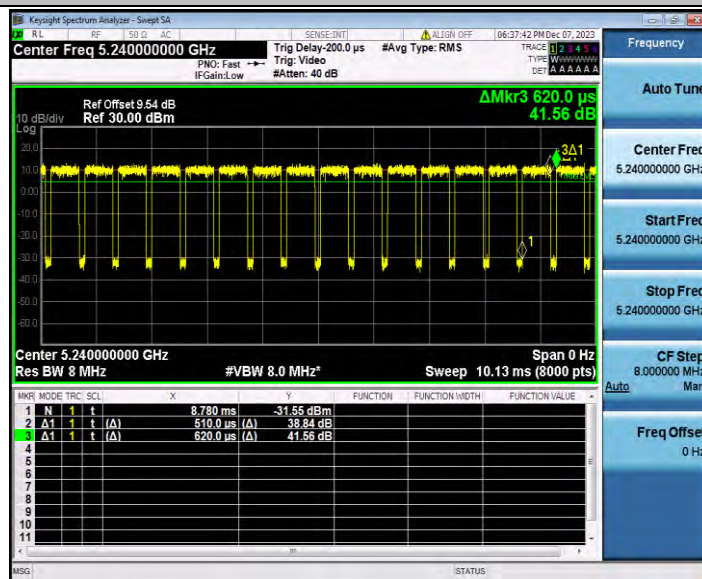
11A_Ant2_5180



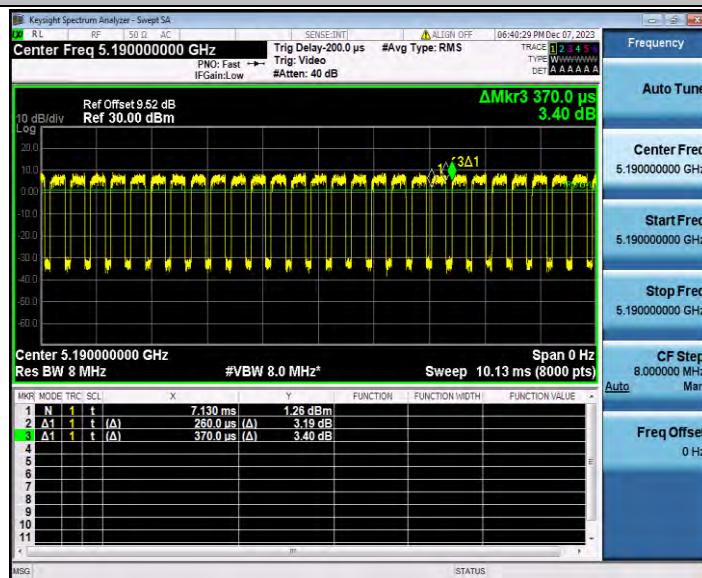
11A_Ant2_5200



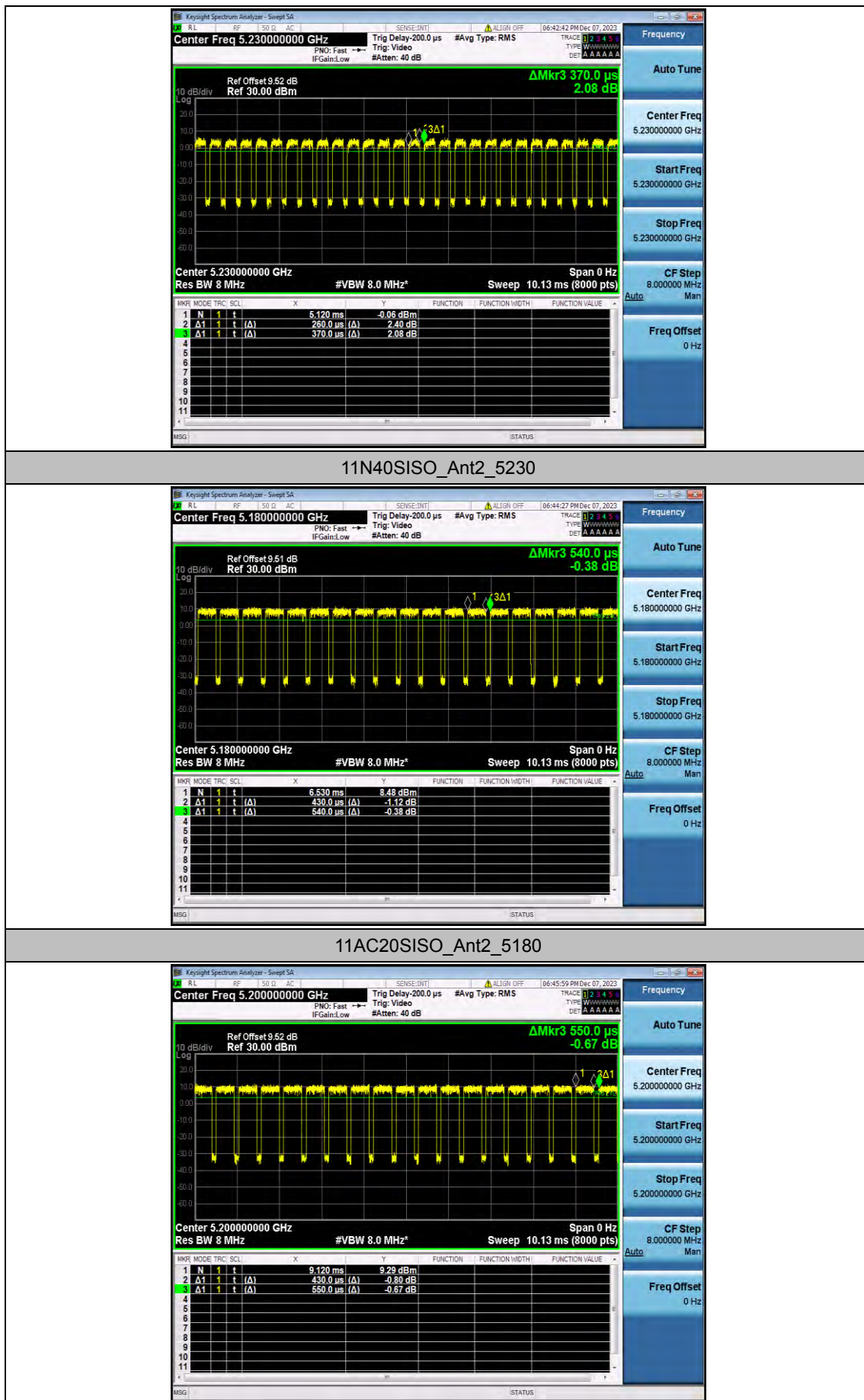
11N20SISO_Ant2_5200



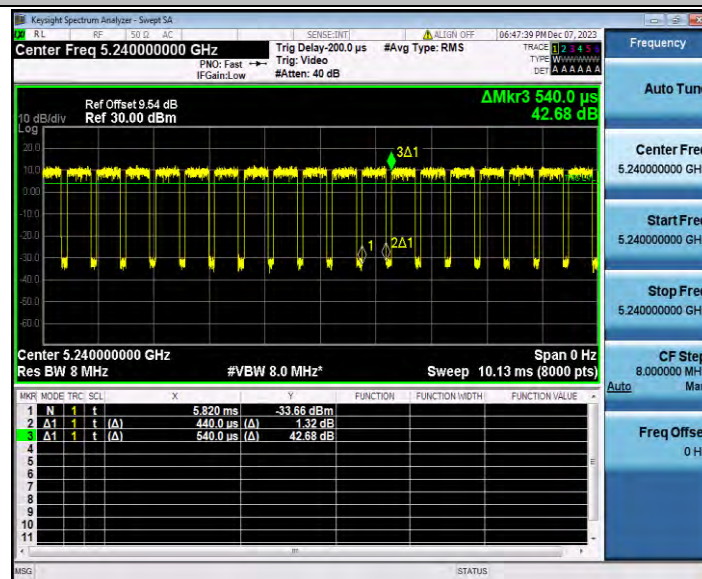
11N20SISO_Ant2_5240



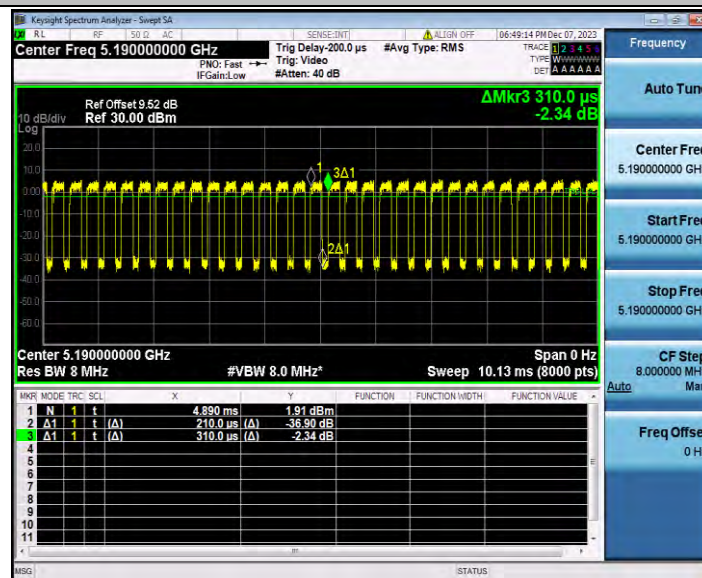
11N40SISO_Ant2_5190



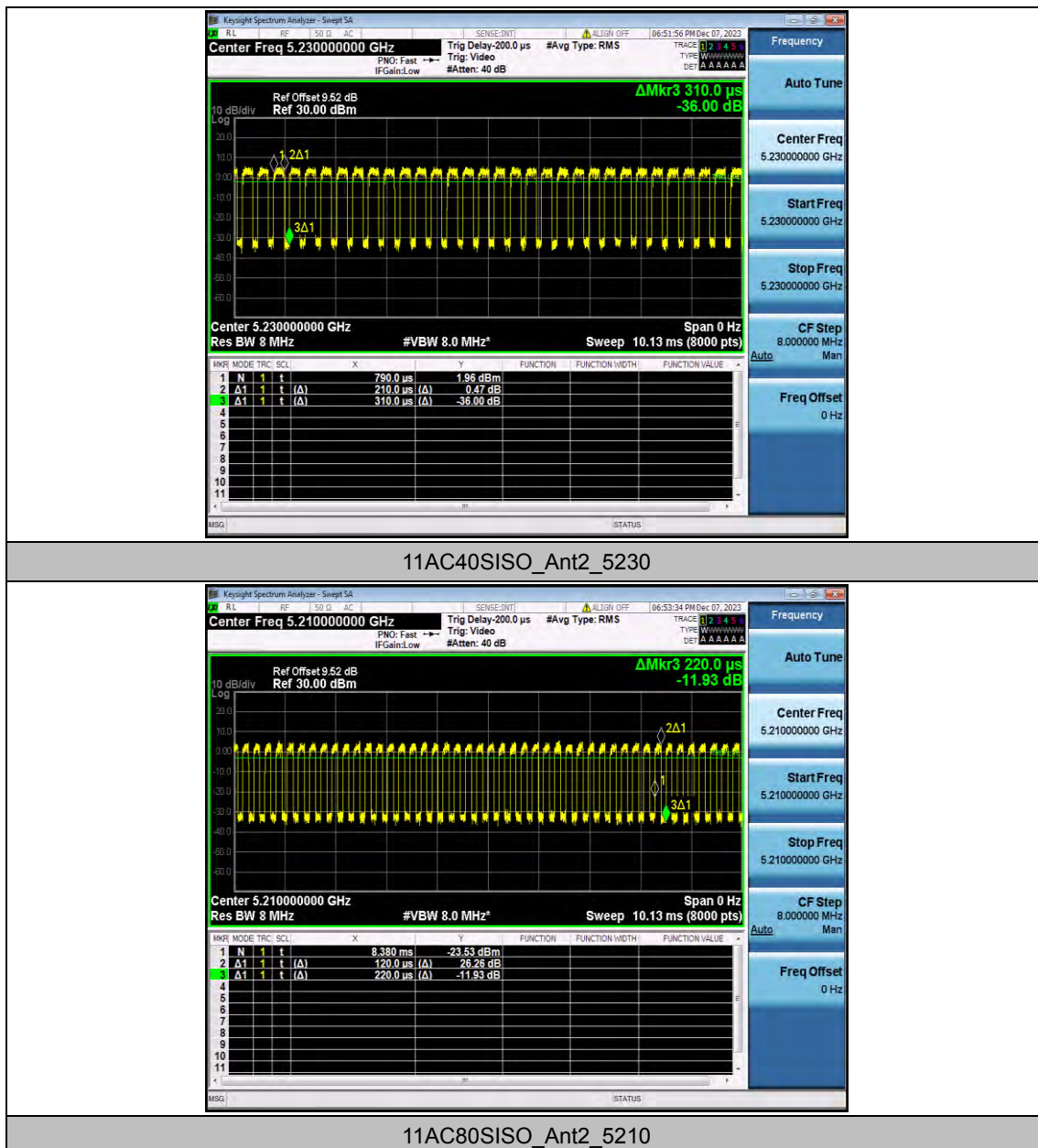
11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[M Hz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	13.92	78.26	1.06	14.98	≤23.98	PASS
		5200	14.23	78.72	1.04	15.27	≤23.98	PASS
		5240	14.38	77.08	1.13	15.51	≤23.98	PASS
11N20SISO	Ant2	5180	12.54	83.61	0.78	13.32	≤23.98	PASS
		5200	12.92	83.87	0.76	13.68	≤23.98	PASS
		5240	13.04	82.26	0.85	13.89	≤23.98	PASS
11N40SISO	Ant2	5190	11.86	70.27	1.53	13.39	≤23.98	PASS
		5230	9.15	70.27	1.53	10.68	≤23.98	PASS
11AC20SISO	Ant2	5180	11.37	79.63	0.99	12.36	≤23.98	PASS
		5200	11.75	78.18	1.07	12.82	≤23.98	PASS
		5240	11.94	81.48	0.89	12.83	≤23.98	PASS
11AC40SISO	Ant2	5190	8.54	67.74	1.69	10.23	≤23.98	PASS
		5230	8.74	67.74	1.69	10.43	≤23.98	PASS
11AC80SISO	Ant2	5210	10.33	54.55	2.63	12.96	≤23.98	PASS

Note: The Duty Cycle Factor is compensated in the graph.

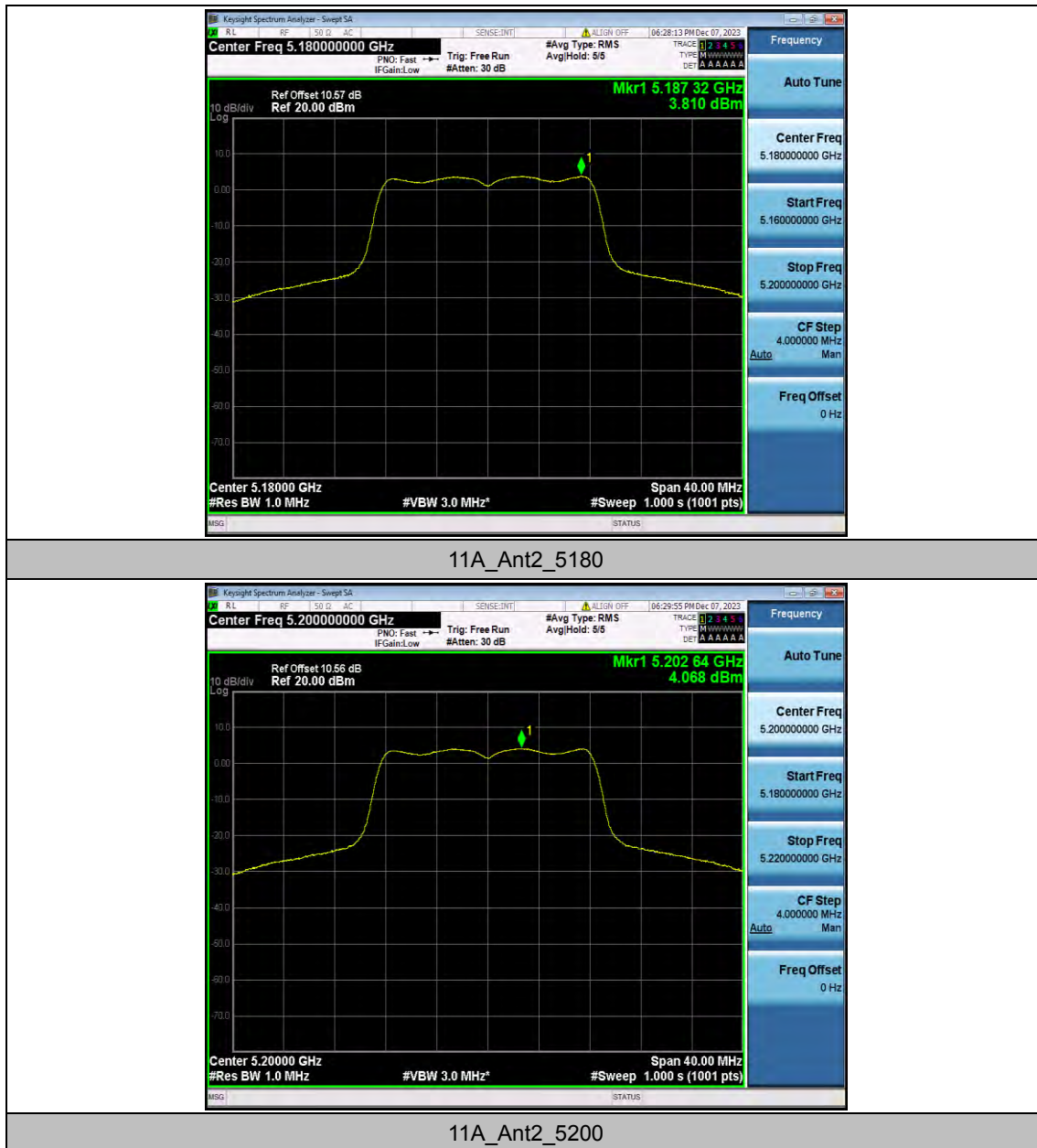
Appendix D.5: Maximum power spectral density

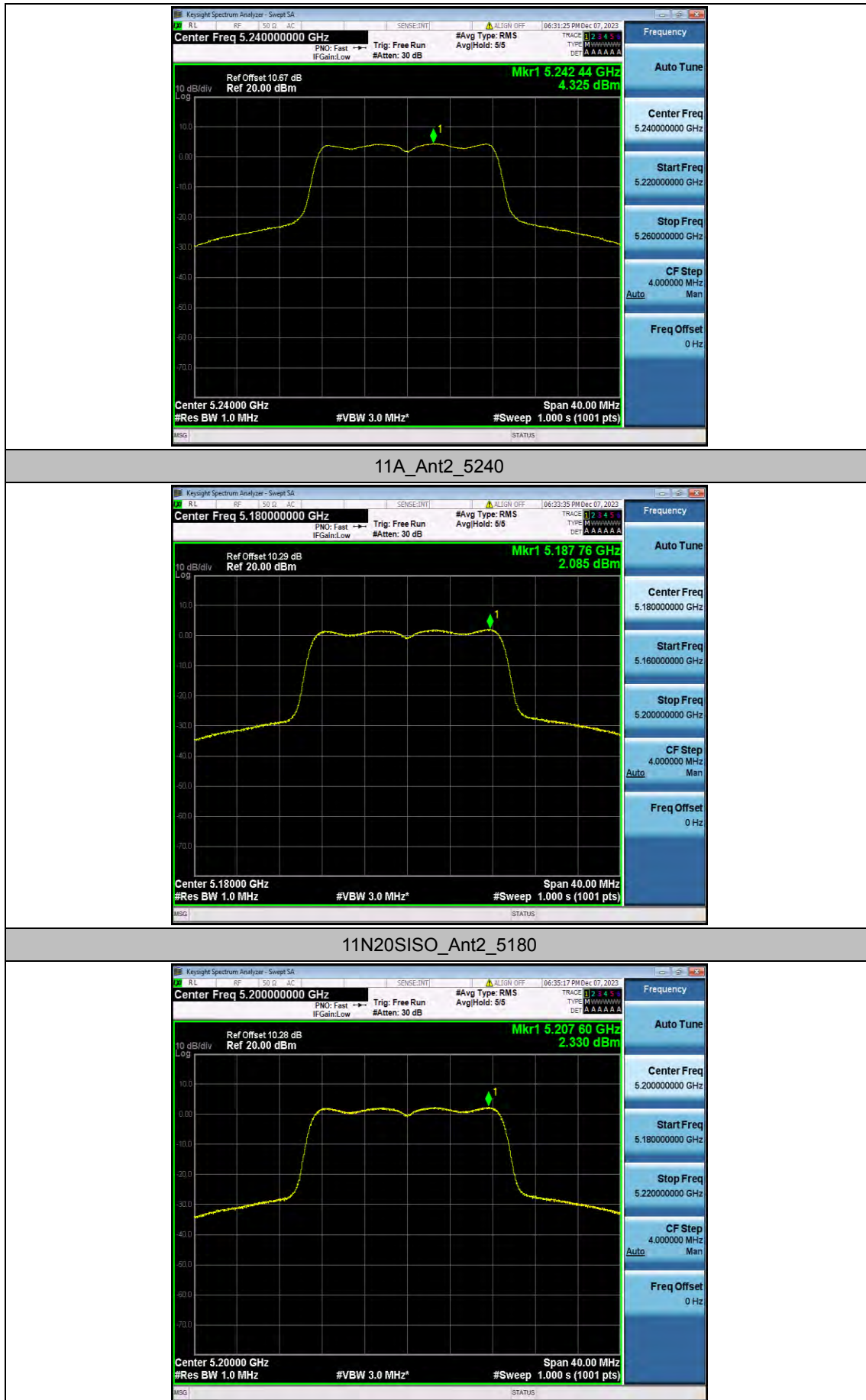
Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5180	3.81	≤11.00	PASS
		5200	4.07	≤11.00	PASS
		5240	4.33	≤11.00	PASS
11N20SISO	Ant2	5180	2.09	≤11.00	PASS
		5200	2.33	≤11.00	PASS
		5240	2.6	≤11.00	PASS
11N40SISO	Ant2	5190	-0.14	≤11.00	PASS
		5230	-3.05	≤11.00	PASS
11AC20SISO	Ant2	5180	1.15	≤11.00	PASS
		5200	1.46	≤11.00	PASS
		5240	1.55	≤11.00	PASS
11AC40SISO	Ant2	5190	-3.34	≤11.00	PASS
		5230	-3.18	≤11.00	PASS
11AC80SISO	Ant2	5210	-3.86	≤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_5200



11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



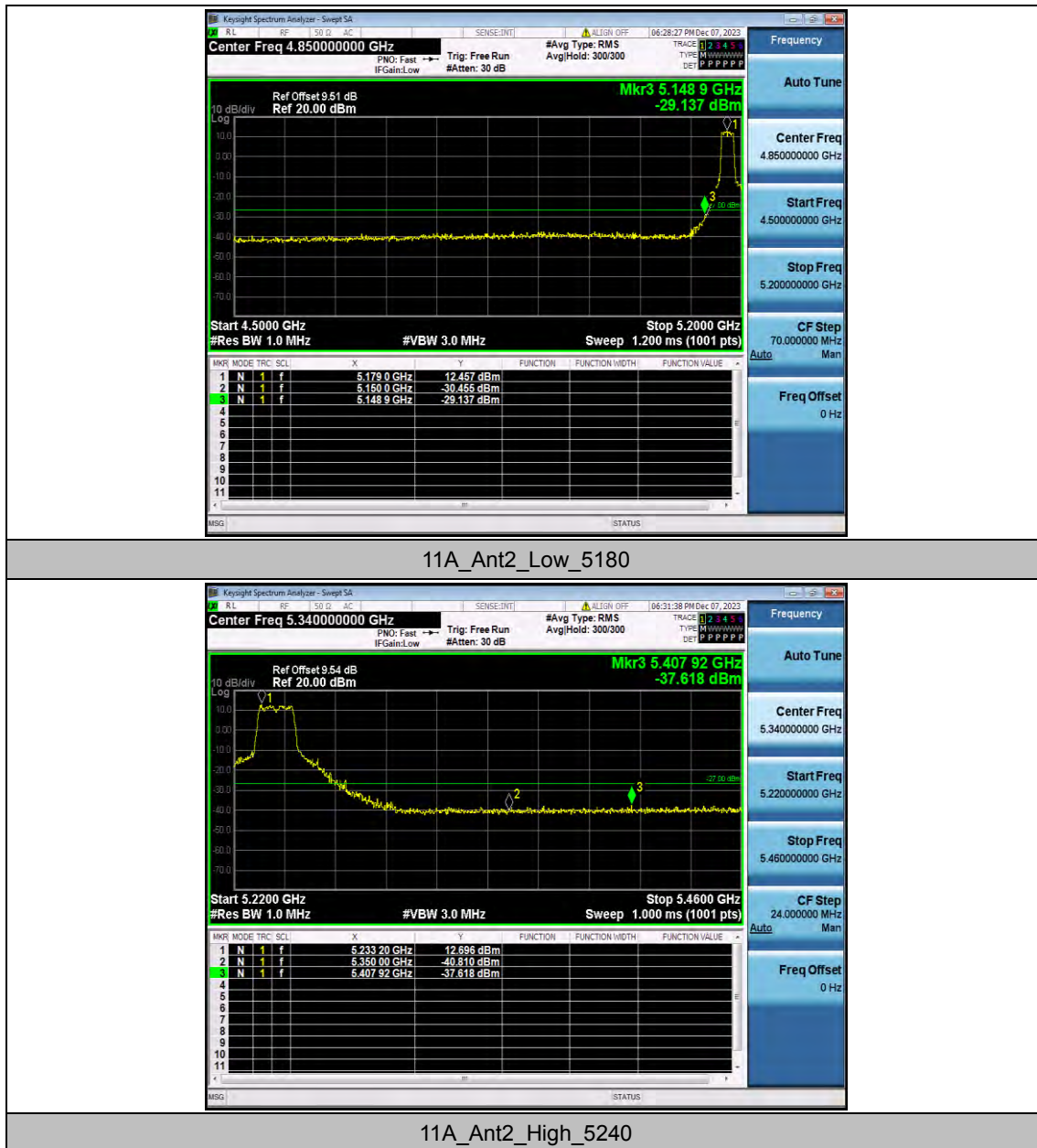
11AC80SISO_Ant2_5210

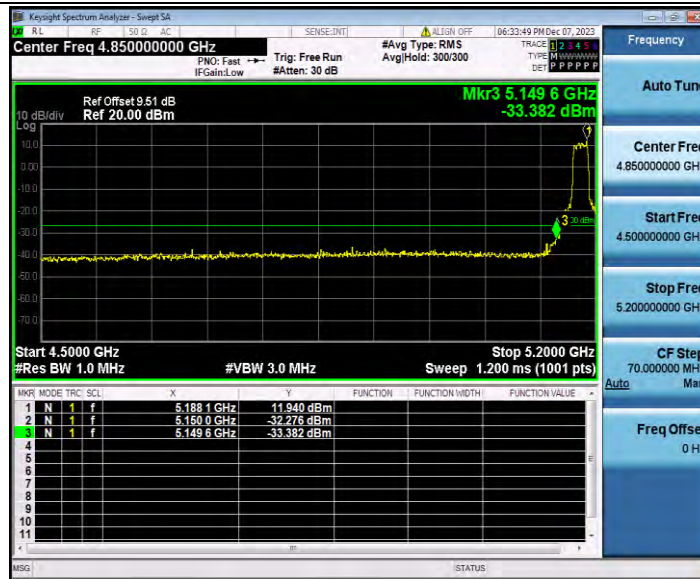
Appendix D.6: Band edge measurements

Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5180	-29.14	≤ -27	PASS
		High	5240	-37.62	≤ -27	PASS
11N20SISO	Ant2	Low	5180	-33.38	≤ -27	PASS
		High	5240	-36.12	≤ -27	PASS
11N40SISO	Ant2	Low	5190	-33.74	≤ -27	PASS
		High	5230	-36.43	≤ -27	PASS
11AC20SISO	Ant2	Low	5180	-35.2	≤ -27	PASS
		High	5240	-38.02	≤ -27	PASS
11AC40SISO	Ant2	Low	5190	-32.79	≤ -27	PASS
		High	5230	-37.53	≤ -27	PASS
11AC80SISO	Ant2	Low	5210	-32.18	≤ -27	PASS
		High	5210	-30.02	≤ -27	PASS

Test Graphs B1

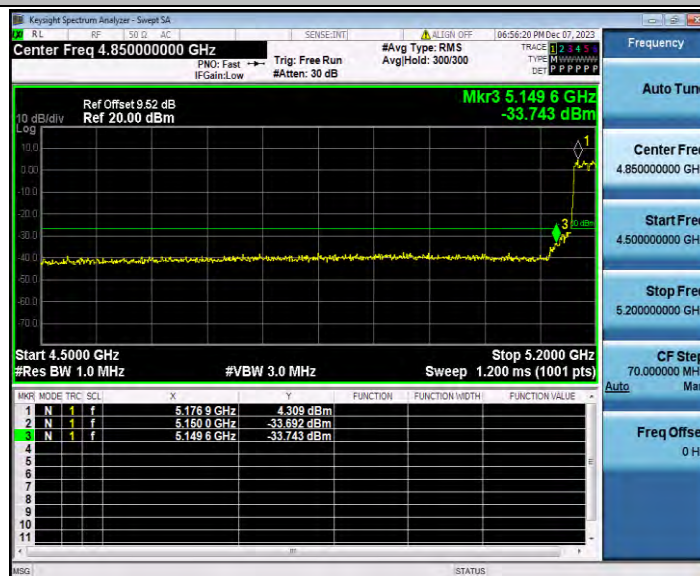




11N20SISO_Ant2_Low_5180



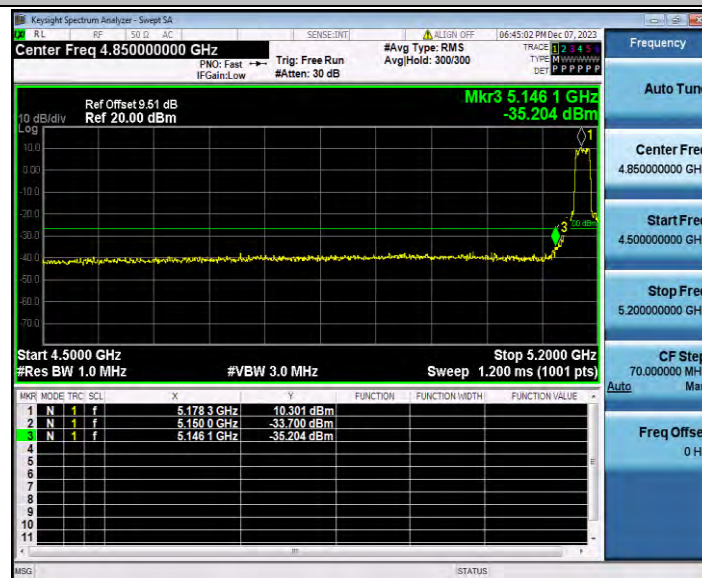
11N20SISO_Ant2_High_5240



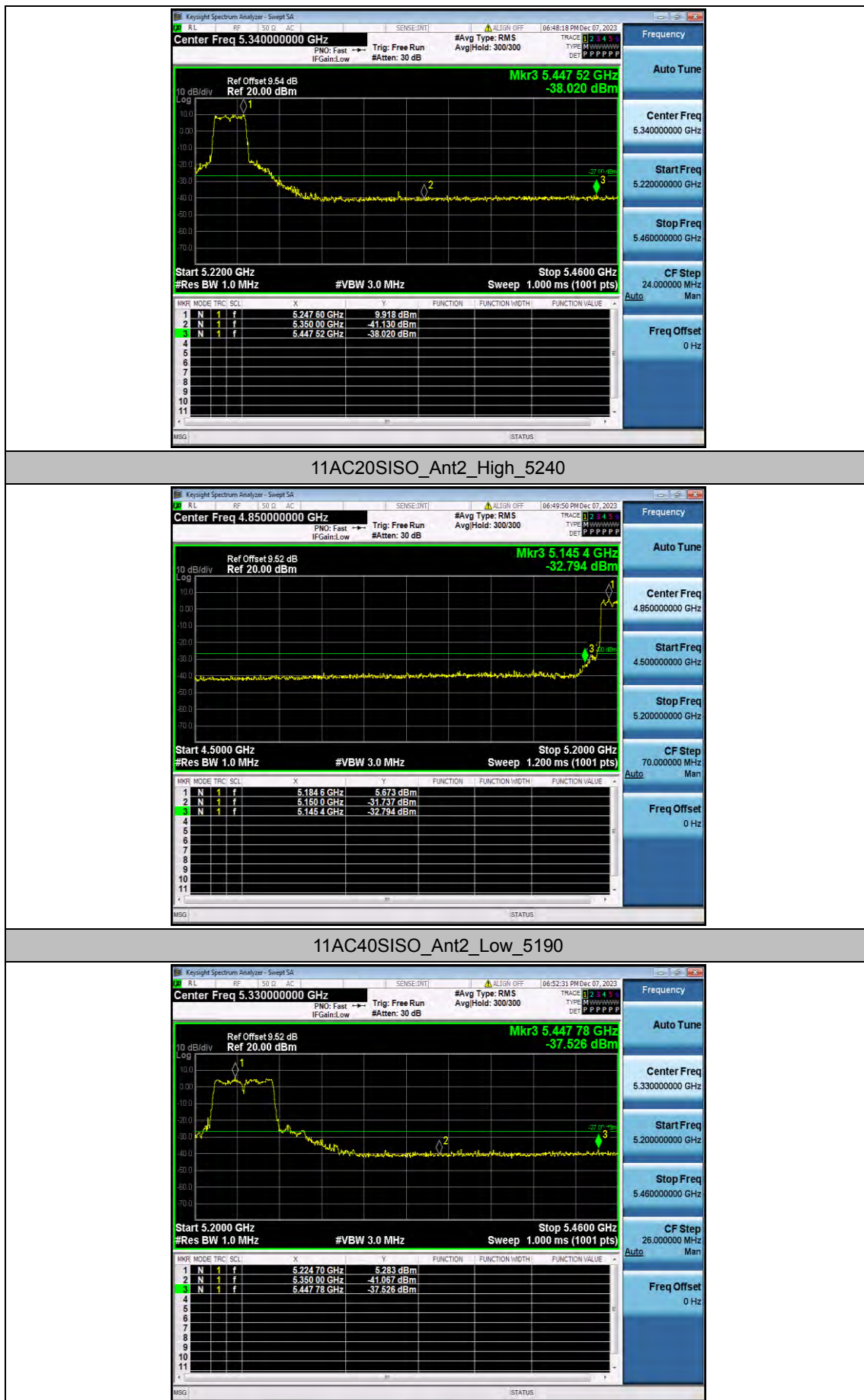
11N40SISO_Ant2_Low_5190



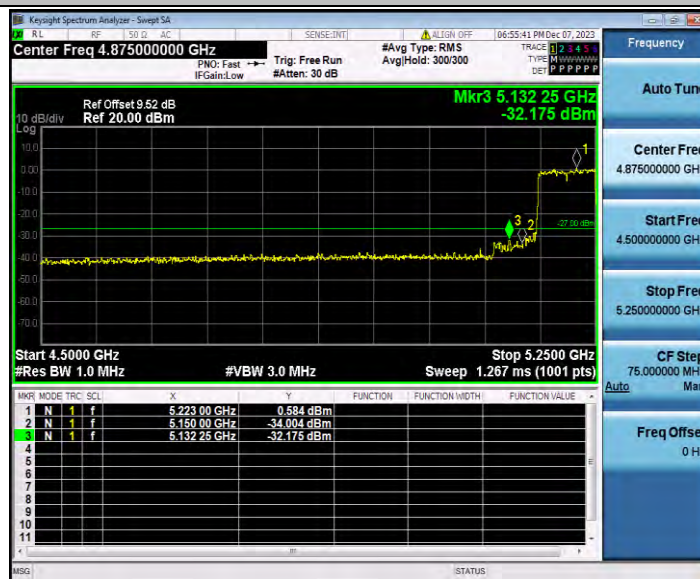
11N40SISO_Ant2_High_5230



11AC20SISO_Ant2_Low_5180



11AC40SISO_Ant2_High_5230



11AC80SISO_Ant2_Low_5210



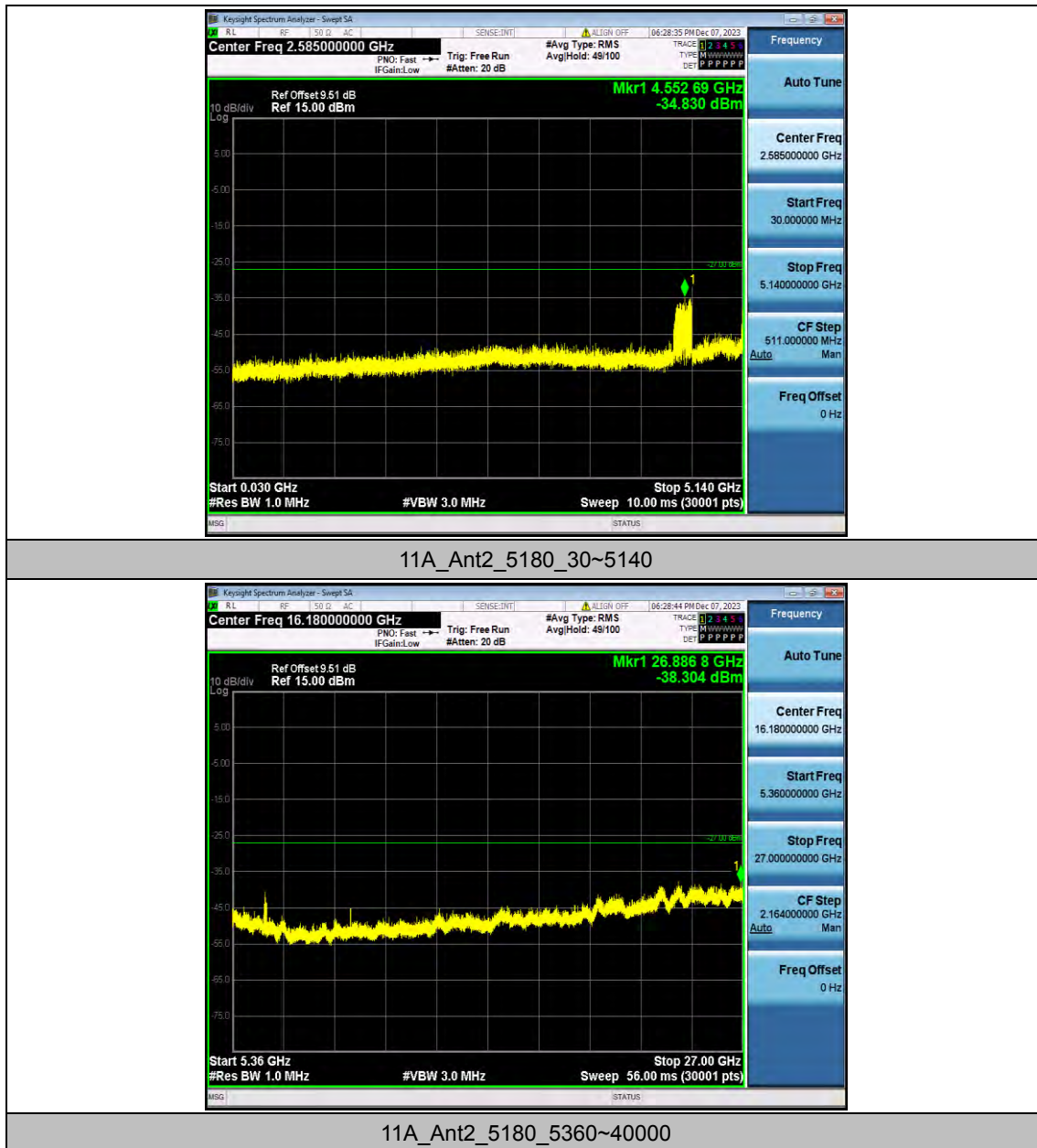
11AC80SISO_Ant2_High_5210

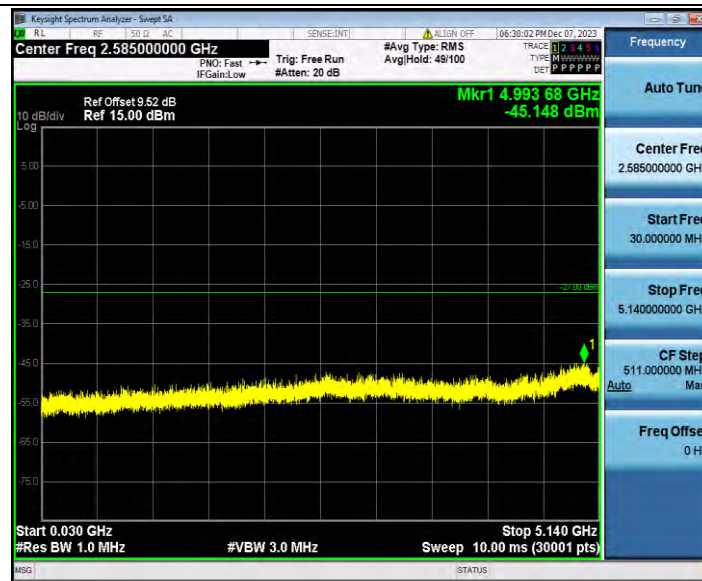
Appendix D.7: Conducted Spurious Emission

Test Result

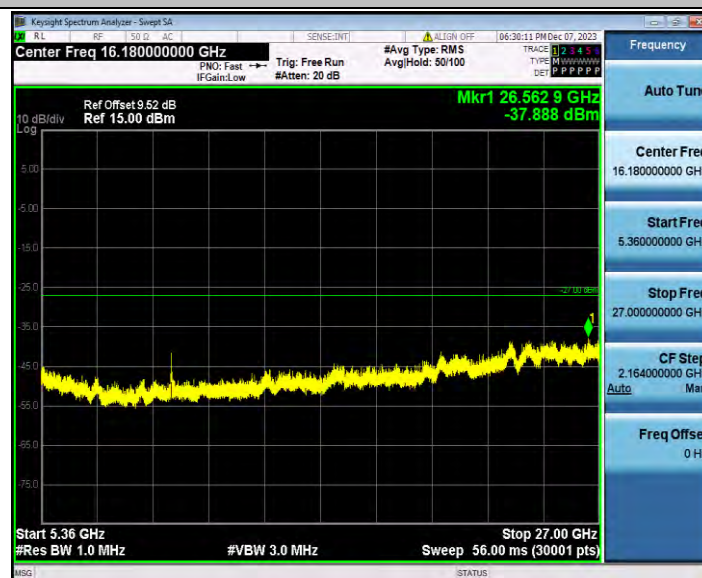
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	30~5140	4552.69	-34.83	≤-27	PASS
			5360~40000	26886.75	-38.3	≤-27	PASS
		5200	30~5140	4993.68	-45.15	≤-27	PASS
			5360~40000	26562.87	-37.89	≤-27	PASS
		5240	30~5140	4934.58	-43.91	≤-27	PASS
			5360~40000	24135.59	-37.84	≤-27	PASS
11N20SISO	Ant2	5180	30~5140	5137.62	-41.22	≤-27	PASS
			5360~40000	24363.53	-37.75	≤-27	PASS
		5200	30~5140	5051.6	-45.52	≤-27	PASS
			5360~40000	25095.68	-37.9	≤-27	PASS
		5240	30~5140	3713.97	-43.79	≤-27	PASS
			5360~40000	24359.2	-37.53	≤-27	PASS
11N40SISO	Ant2	5190	30~5140	5139.32	-33.75	≤-27	PASS
			5360~40000	24299.33	-37.48	≤-27	PASS
		5230	30~5140	5062.84	-37.47	≤-27	PASS
			5360~40000	24820.13	-37.92	≤-27	PASS
11AC20SISO	Ant2	5180	30~5140	4923	-45.22	≤-27	PASS
			5360~40000	26629.96	-37.77	≤-27	PASS
		5200	30~5140	5037.97	-44.88	≤-27	PASS
			5360~40000	24277.69	-38.25	≤-27	PASS
		5240	30~5140	5061.65	-45.64	≤-27	PASS
			5360~40000	5936.35	-37.27	≤-27	PASS
11AC40SISO	Ant2	5190	30~5140	5098.95	-39.92	≤-27	PASS
			5360~40000	5880.08	-36.72	≤-27	PASS
		5230	30~5140	5058.24	-43.15	≤-27	PASS
			5360~40000	6023.63	-36.79	≤-27	PASS
11AC80SISO	Ant2	5210	30~5140	5113.09	-45.22	≤-27	PASS
			5360~40000	5361.44	-33.61	≤-27	PASS

Test Graphs

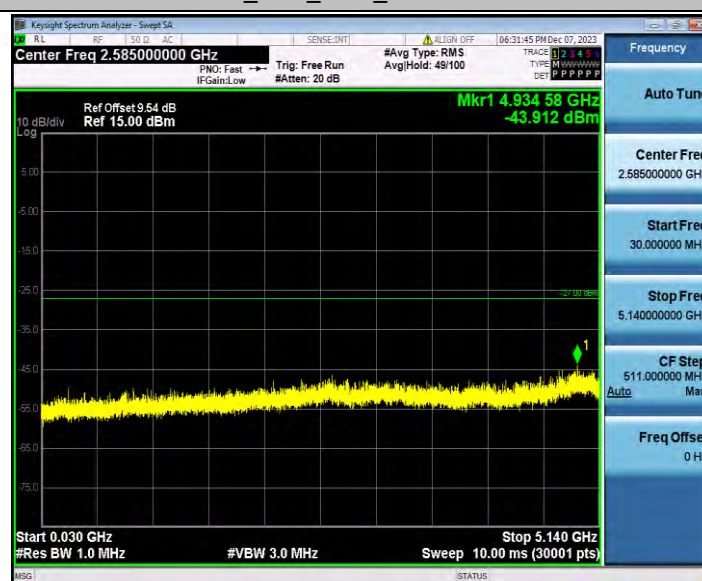




11A_Ant2_5200_30~5140



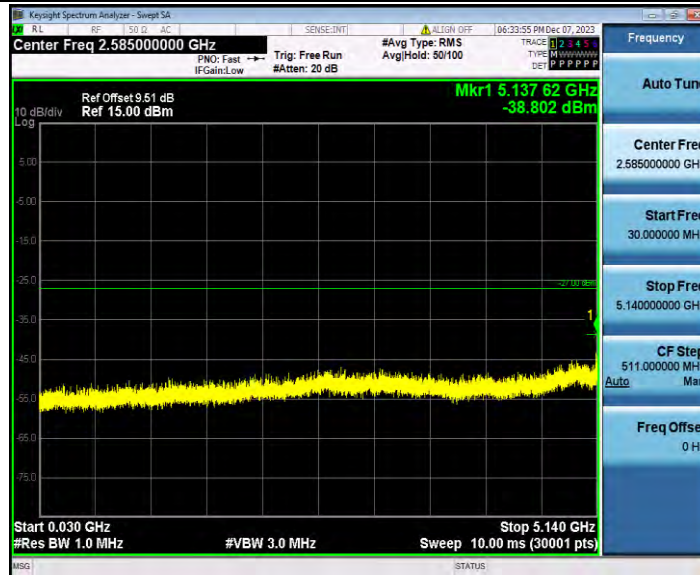
11A_Ant2_5200_5360~40000



11A_Ant2_5240_30~5140



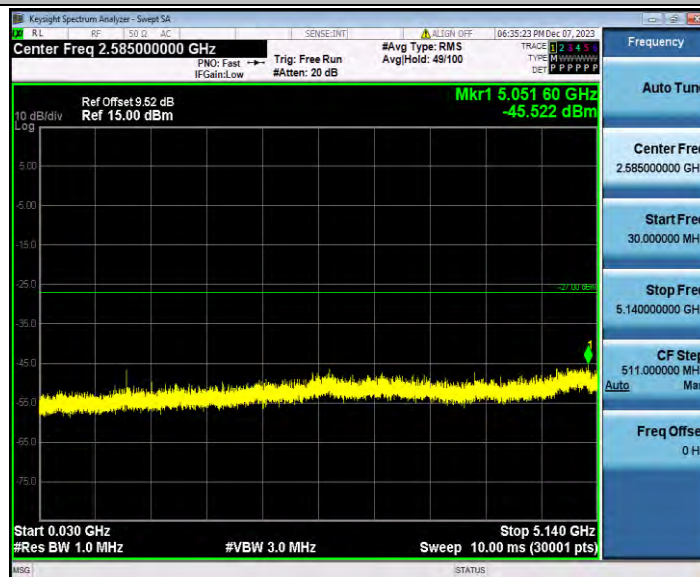
11A_Ant2_5240_5360~40000



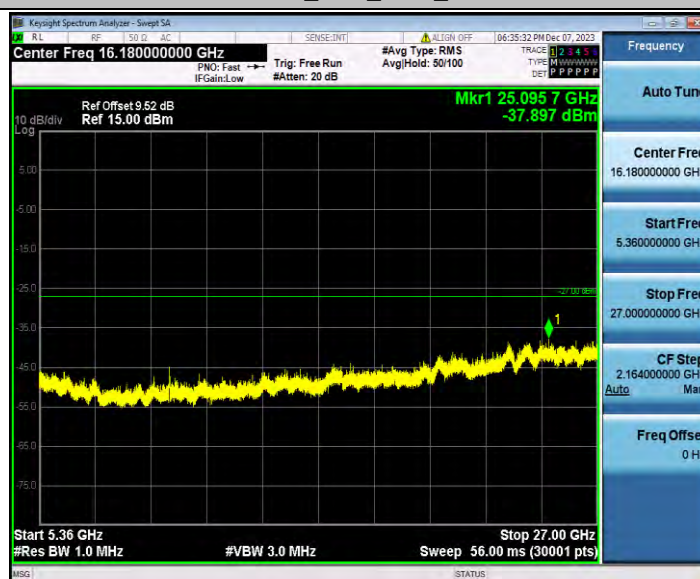
11N20SISO_Ant2_5180_30~5140

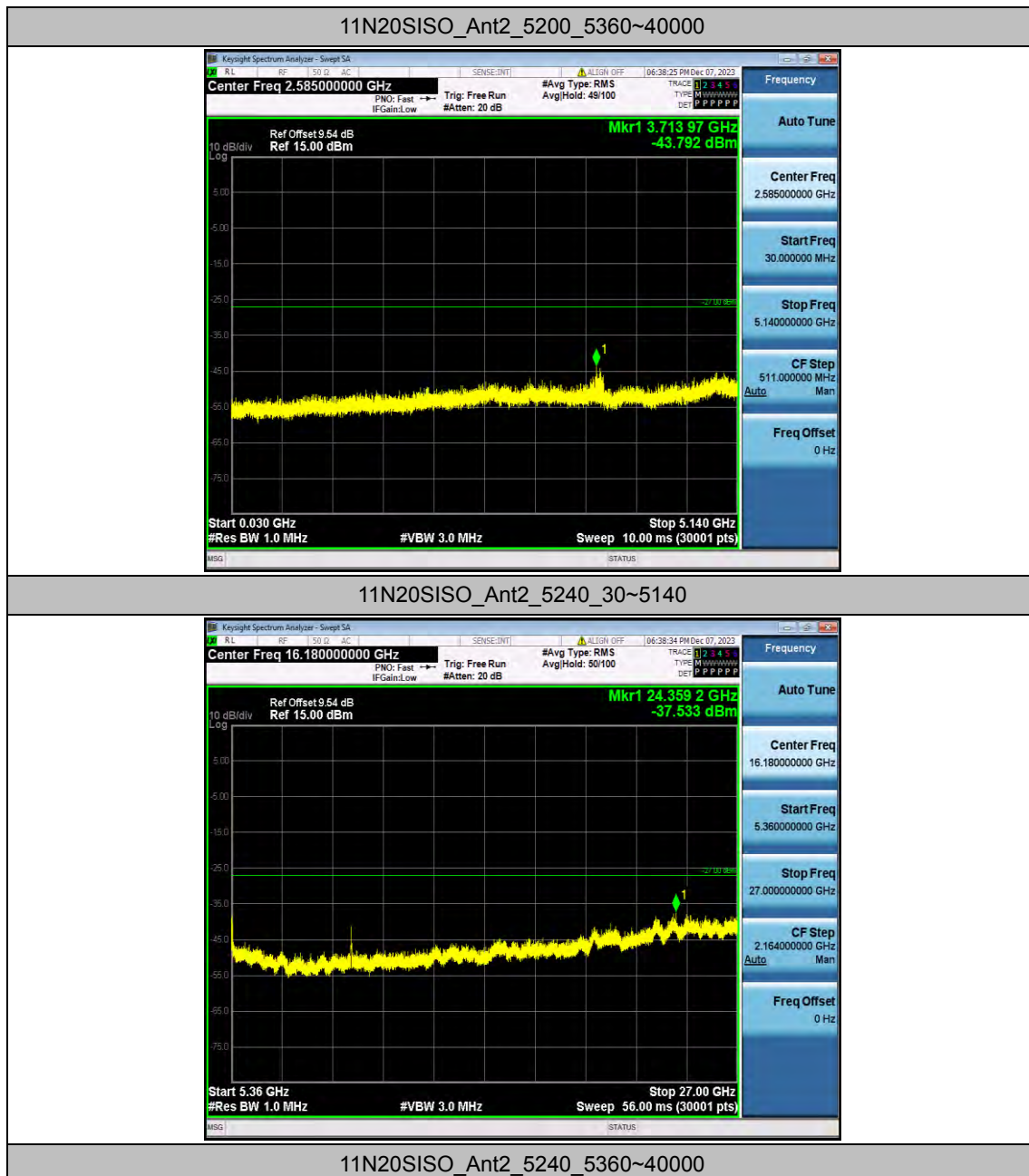


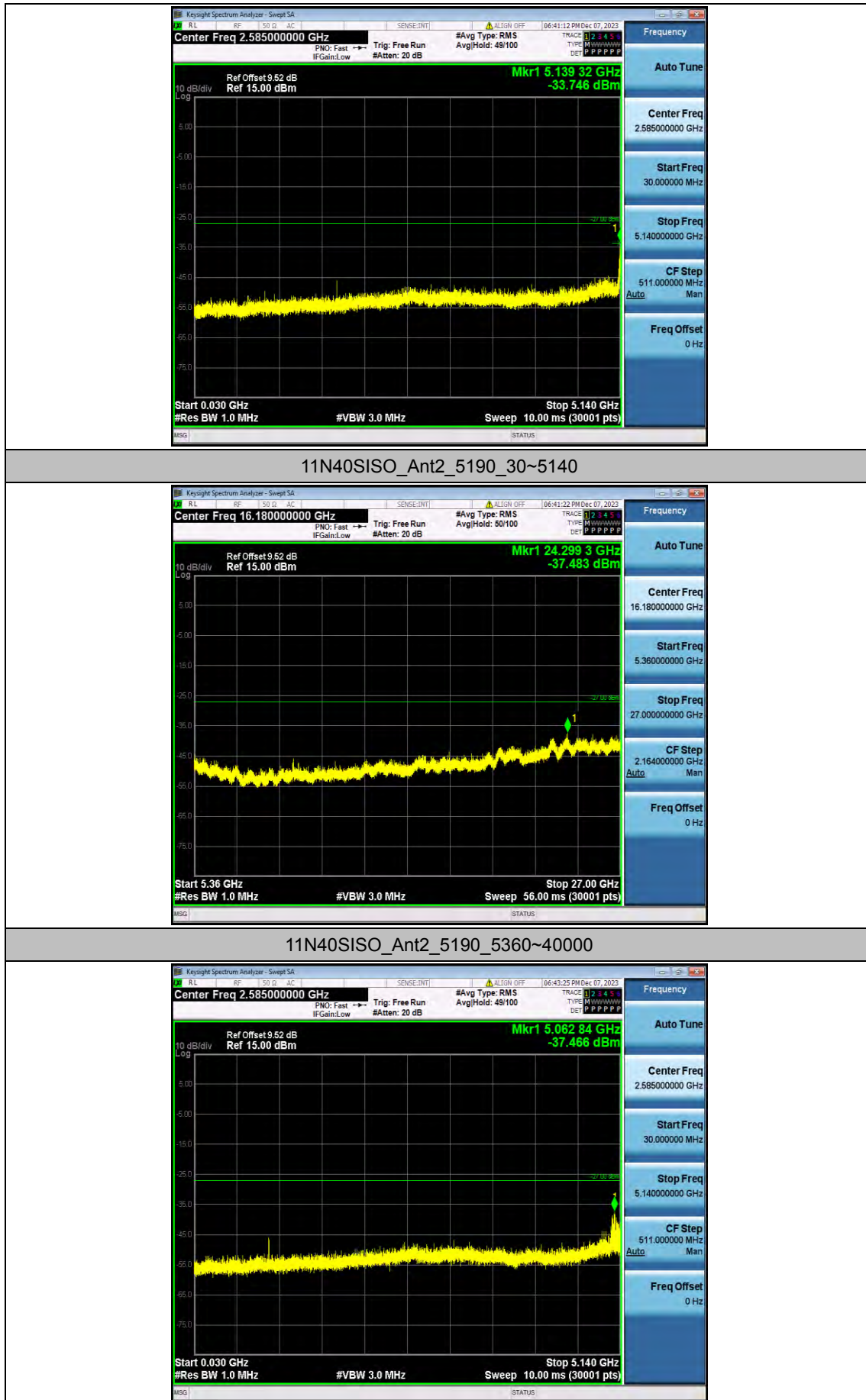
11N20SISO_Ant2_5180_5360~40000



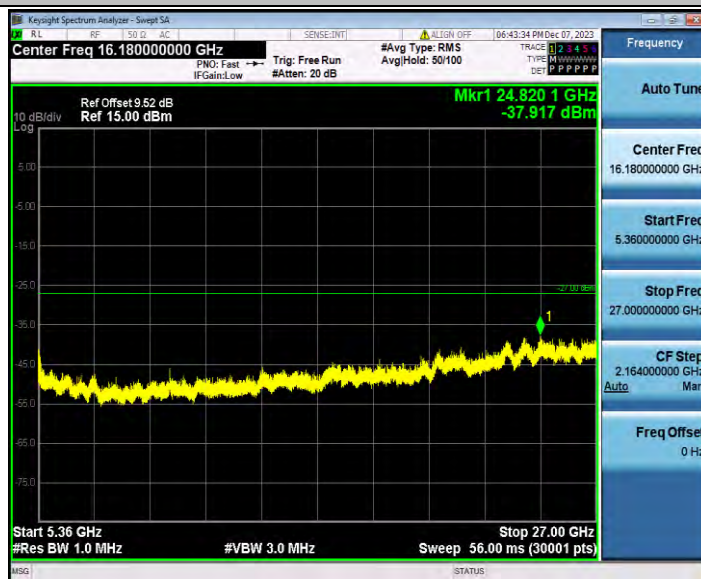
11N20SISO_Ant2_5200_30~5140



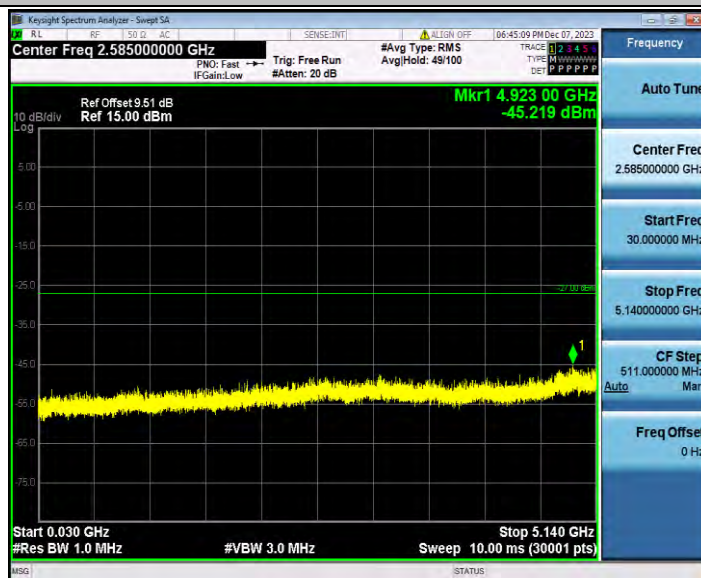




11N40SISO_Ant2_5230_30~5140



11N40SISO_Ant2_5230_5360~40000



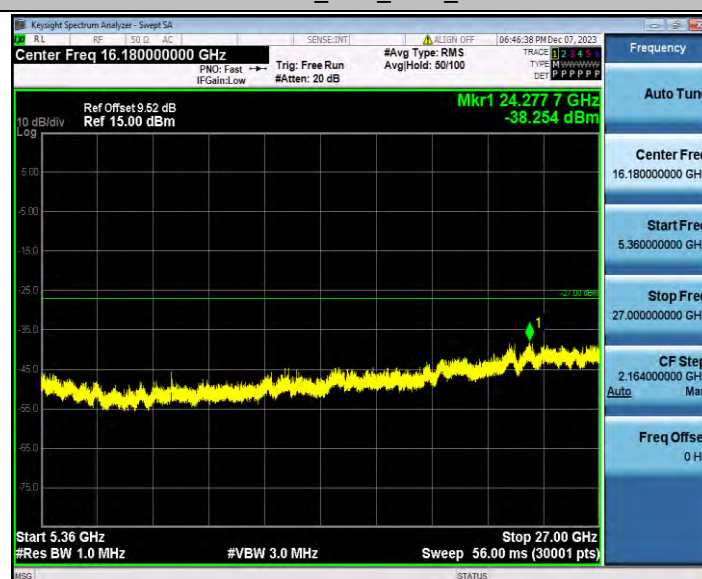
11AC20SISO_Ant2_5180_30~5140



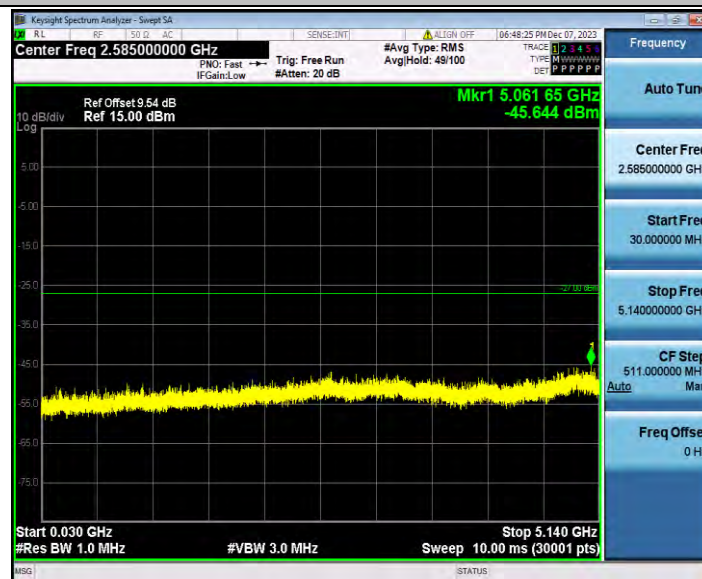
11AC20SISO_Ant2_5180_5360~40000



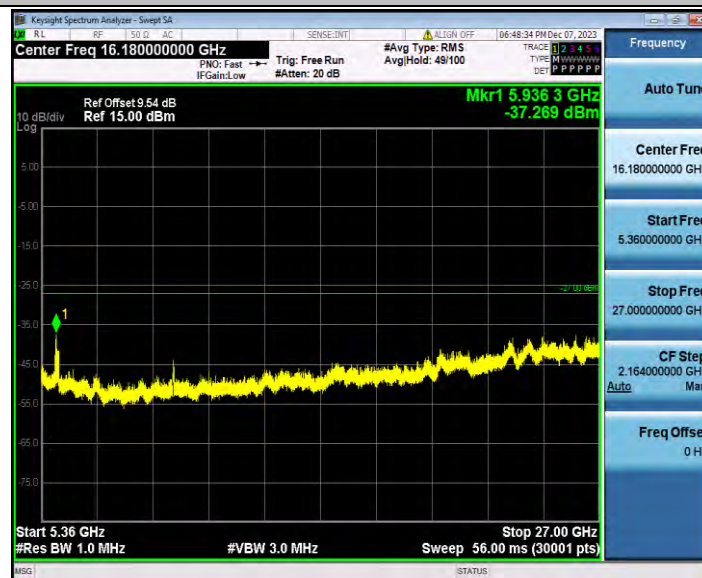
11AC20SISO_Ant2_5200_30~5140



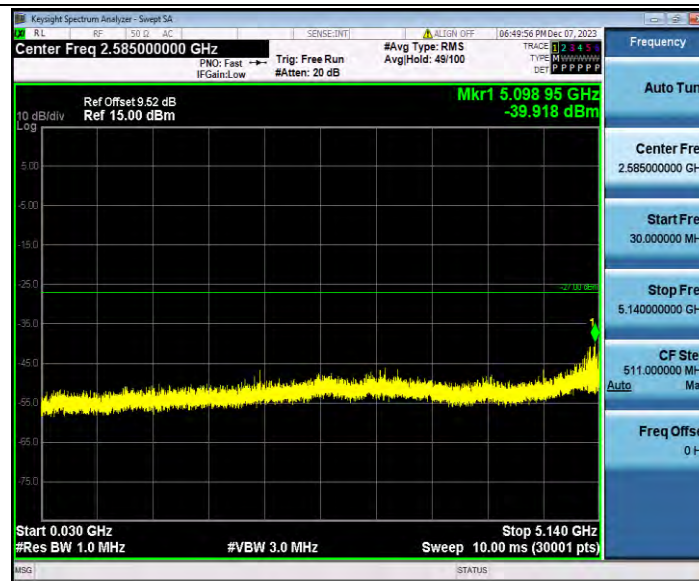
11AC20SISO_Ant2_5200_5360~40000



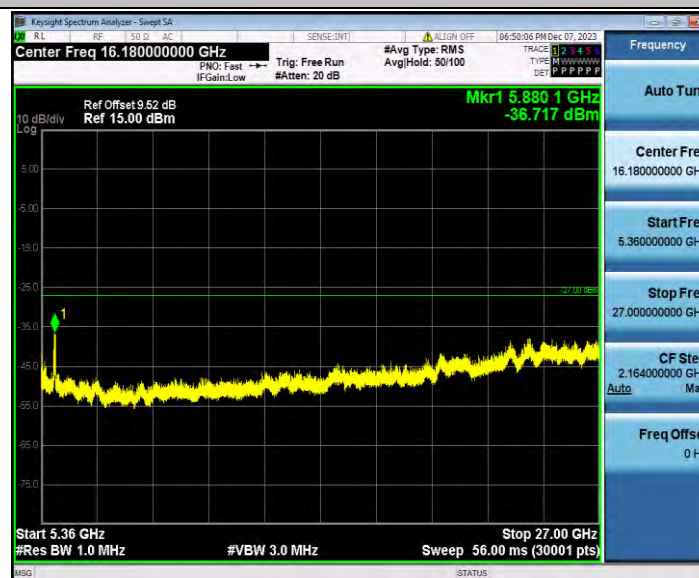
11AC20SISO_Ant2_5240_30~5140



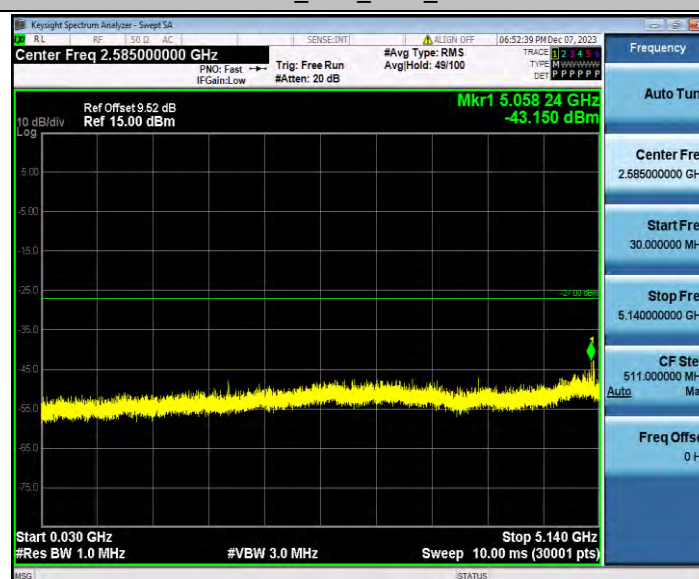
11AC20SISO_Ant2_5240_5360~40000



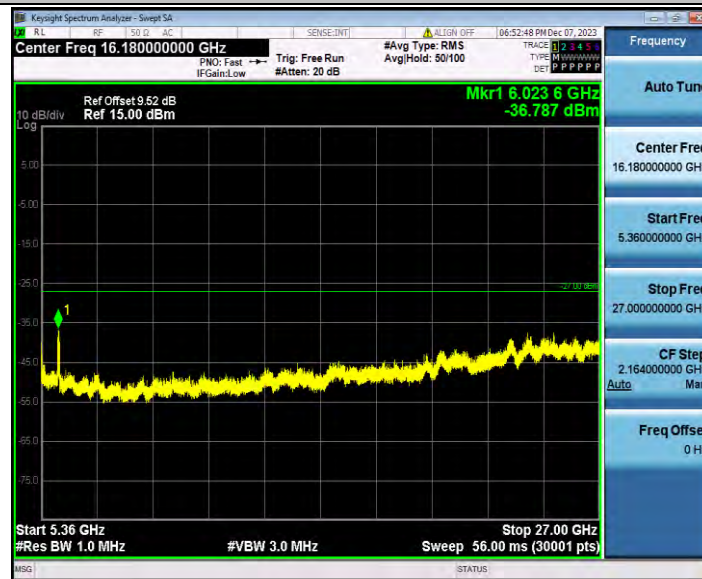
11AC40SISO_Ant2_5190_30~5140



11AC40SISO_Ant2_5190_5360~40000



11AC40SISO_Ant2_5230_30~5140



11AC40SISO_Ant2_5230_5360~40000



11AC80SISO_Ant2_5210_30~5140

