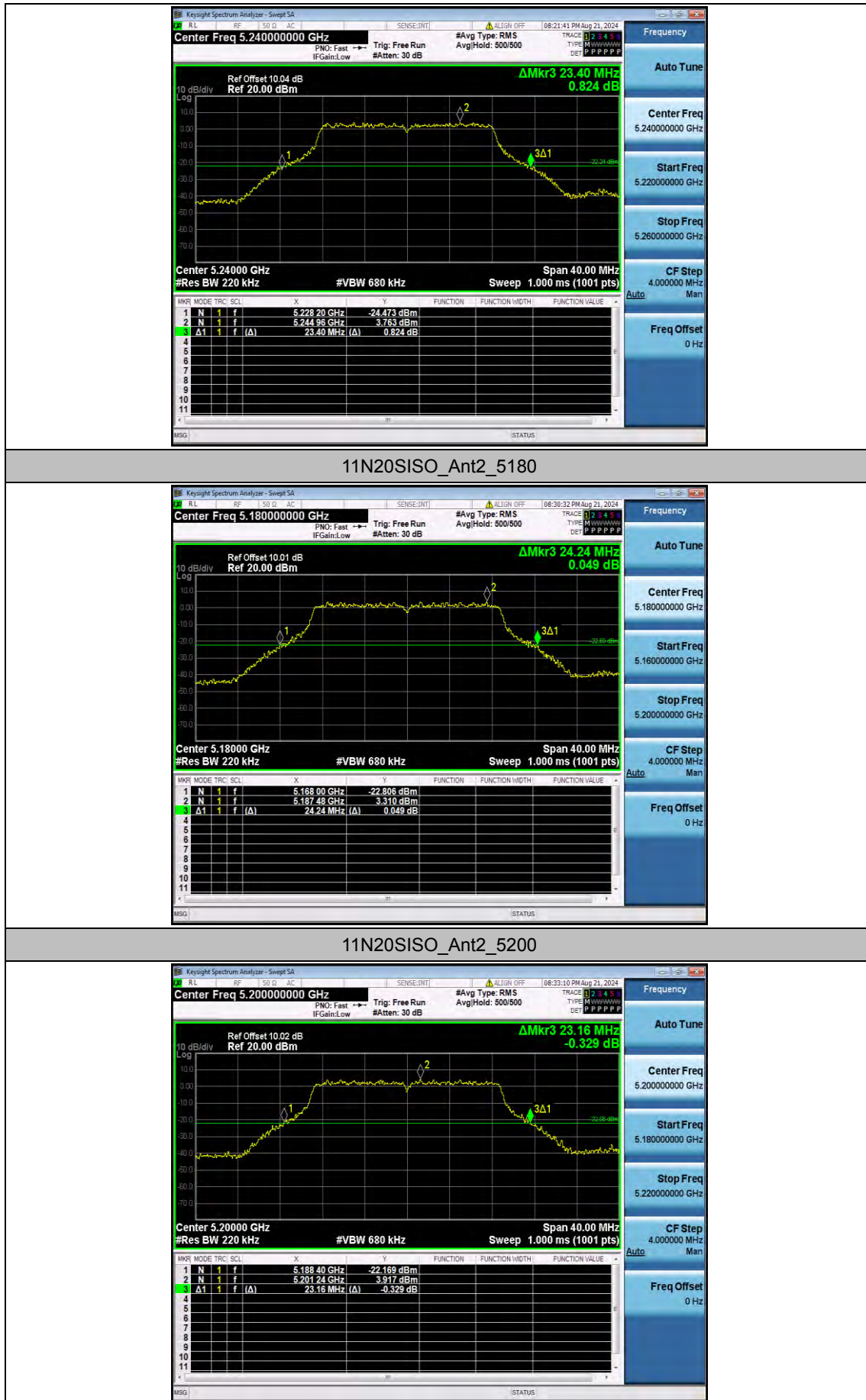


Case No. : <u>CTA24081600304</u>	
Ambient Condition: <u>23</u> °C, <u>51</u> %RH	
According Standard: <u>■Part15E</u>	
Test Date: <u>2024.8.20</u>	Test Engineer: <u>Lushan Kong</u>

Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	22.960	5168.560	5191.520	---	---
		5200	23.640	5188.080	5211.720	---	---
		5240	23.400	5228.200	5251.600	---	---
11N20SISO	Ant2	5180	24.240	5168.000	5192.240	---	---
		5200	23.160	5188.400	5211.560	---	---
		5240	23.720	5227.960	5251.680	---	---
11N40SISO	Ant2	5190	44.400	5168.000	5212.400	---	---
		5230	44.160	5208.160	5252.320	---	---
11AC20SISO	Ant2	5180	23.640	5168.160	5191.800	---	---
		5200	23.720	5187.920	5211.640	---	---
		5240	23.880	5228.160	5252.040	---	---
11AC40SISO	Ant2	5190	44.320	5167.920	5212.240	---	---
		5230	44.480	5207.920	5252.400	---	---
11AC80SISO	Ant2	5210	83.200	5168.880	5252.080	---	---



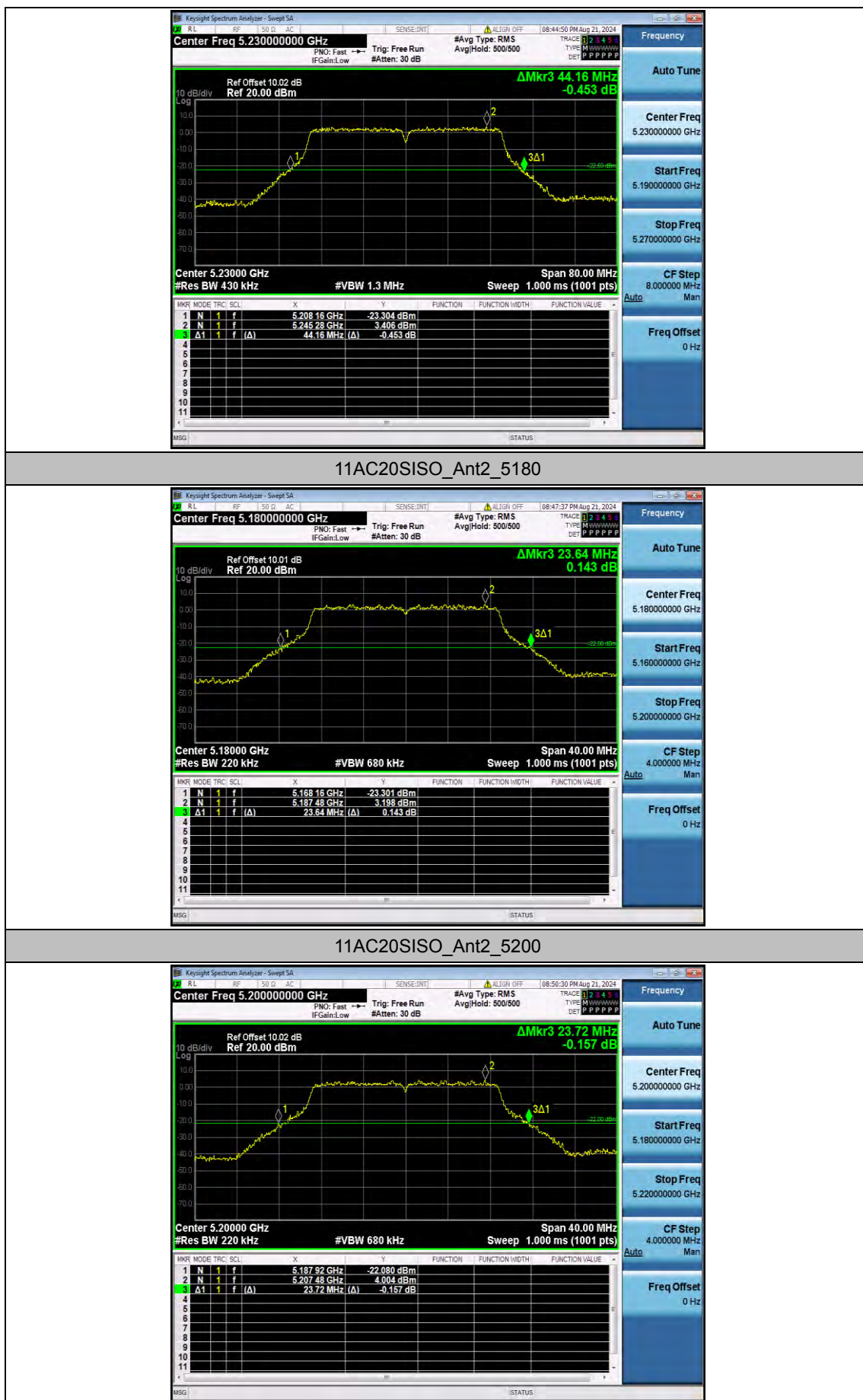
11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



11AC20SISO_Ant2_5240



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	17.240	5171.3419	5188.5819	---	---
		5200	17.284	5191.3235	5208.6075	---	---
		5240	17.253	5231.3539	5248.6069	---	---
11N20SISO	Ant2	5180	18.313	5170.8158	5189.1288	---	---
		5200	18.287	5190.8376	5209.1246	---	---
		5240	18.329	5230.8191	5249.1481	---	---
11N40SISO	Ant2	5190	36.786	5171.6165	5208.4025	---	---
		5230	36.804	5211.5932	5248.3972	---	---
11AC20SISO	Ant2	5180	18.327	5170.7967	5189.1237	---	---
		5200	18.283	5190.8307	5209.1137	---	---
		5240	18.308	5230.8482	5249.1562	---	---
11AC40SISO	Ant2	5190	36.818	5171.6341	5208.4521	---	---
		5230	36.805	5211.6269	5248.4319	---	---
11AC80SISO	Ant2	5210	75.128	5172.5356	5247.6636	---	---

Test Graphs

11A_Ant2_5180



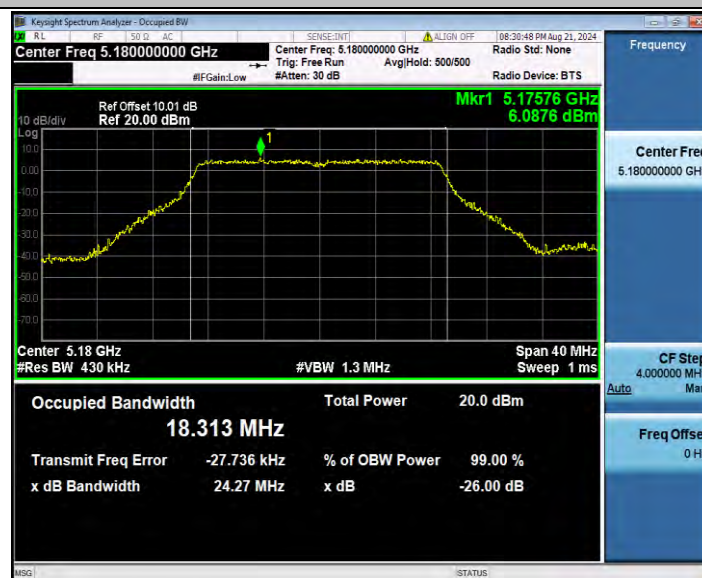
11A_Ant2_5200



11A_Ant2_5240



11N20SISO_Ant2_5180



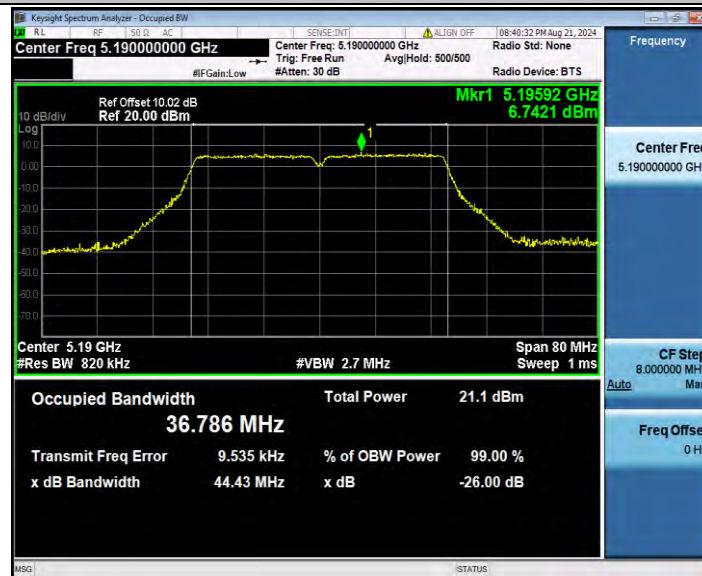
11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



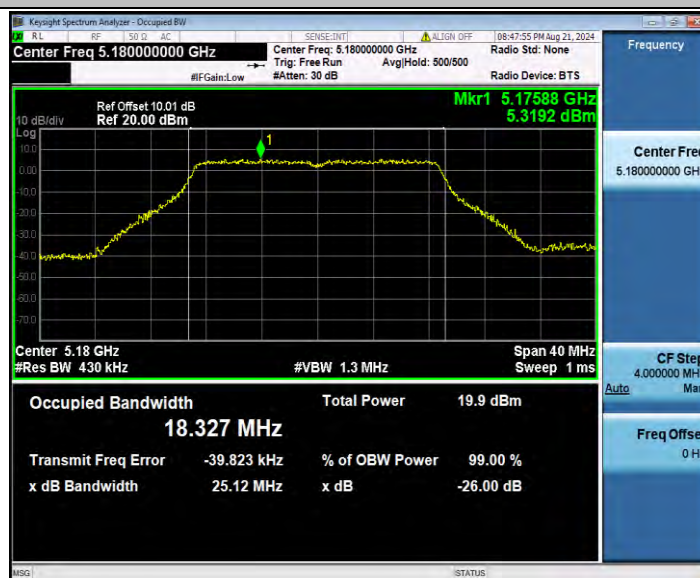
11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



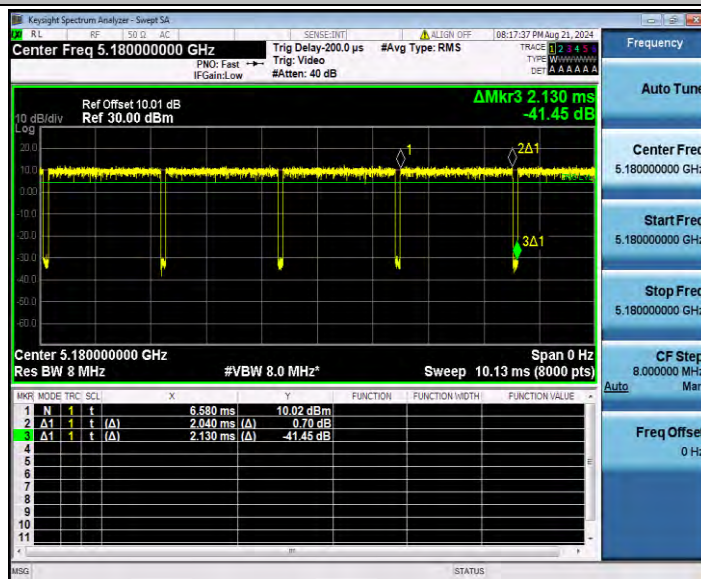
Appendix D.3: Duty Cycle

Test Result

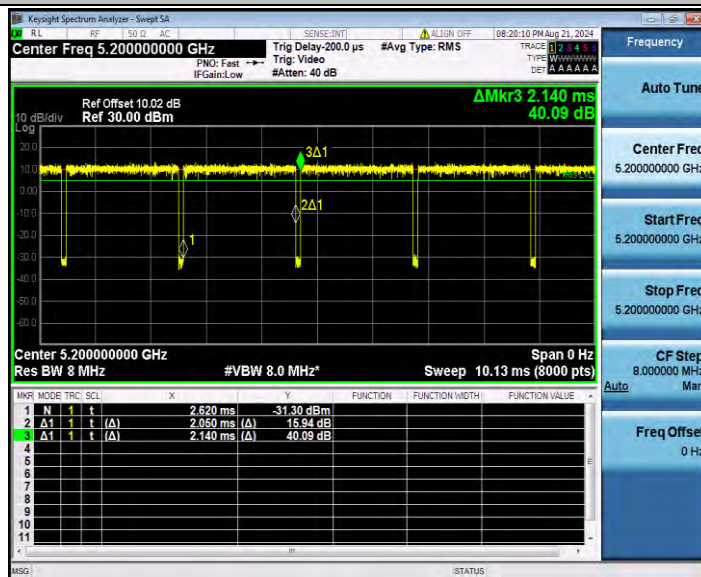
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant2	5180	2.04	2.13	95.77	0.19	0.49
		5200	2.05	2.14	95.79	0.19	0.49
		5240	2.05	2.14	95.79	0.19	0.49
11N20SISO	Ant2	5180	1.90	1.99	95.48	0.20	0.53
		5200	1.91	2.00	95.50	0.20	0.52
		5240	1.91	1.99	95.98	0.18	0.52
11N40SISO	Ant2	5190	0.94	0.98	95.92	0.18	1.06
		5230	0.93	0.98	94.90	0.23	1.08
11AC20SISO	Ant2	5180	1.91	2.00	95.50	0.20	0.52
		5200	1.91	2.00	95.50	0.20	0.52
		5240	1.91	2.00	95.50	0.20	0.52
11AC40SISO	Ant2	5190	0.94	0.99	94.95	0.23	1.06
		5230	0.94	0.99	94.95	0.23	1.06
11AC80SISO	Ant2	5210	0.45	0.49	91.84	0.37	2.22

Test Graphs

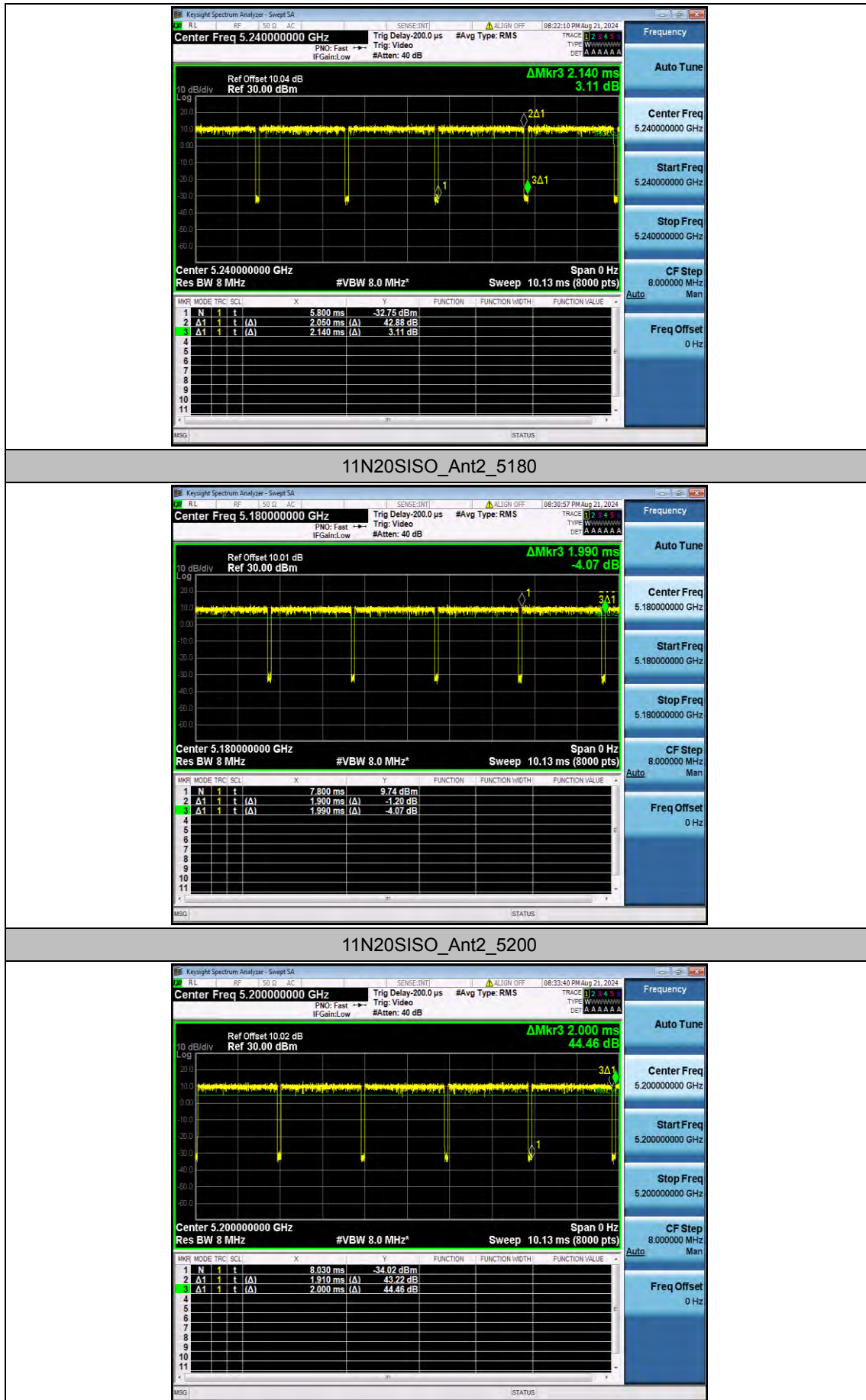
11A_Ant2_5180

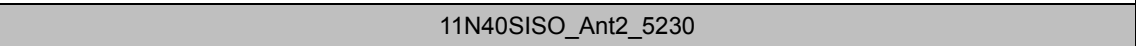
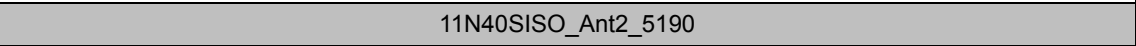


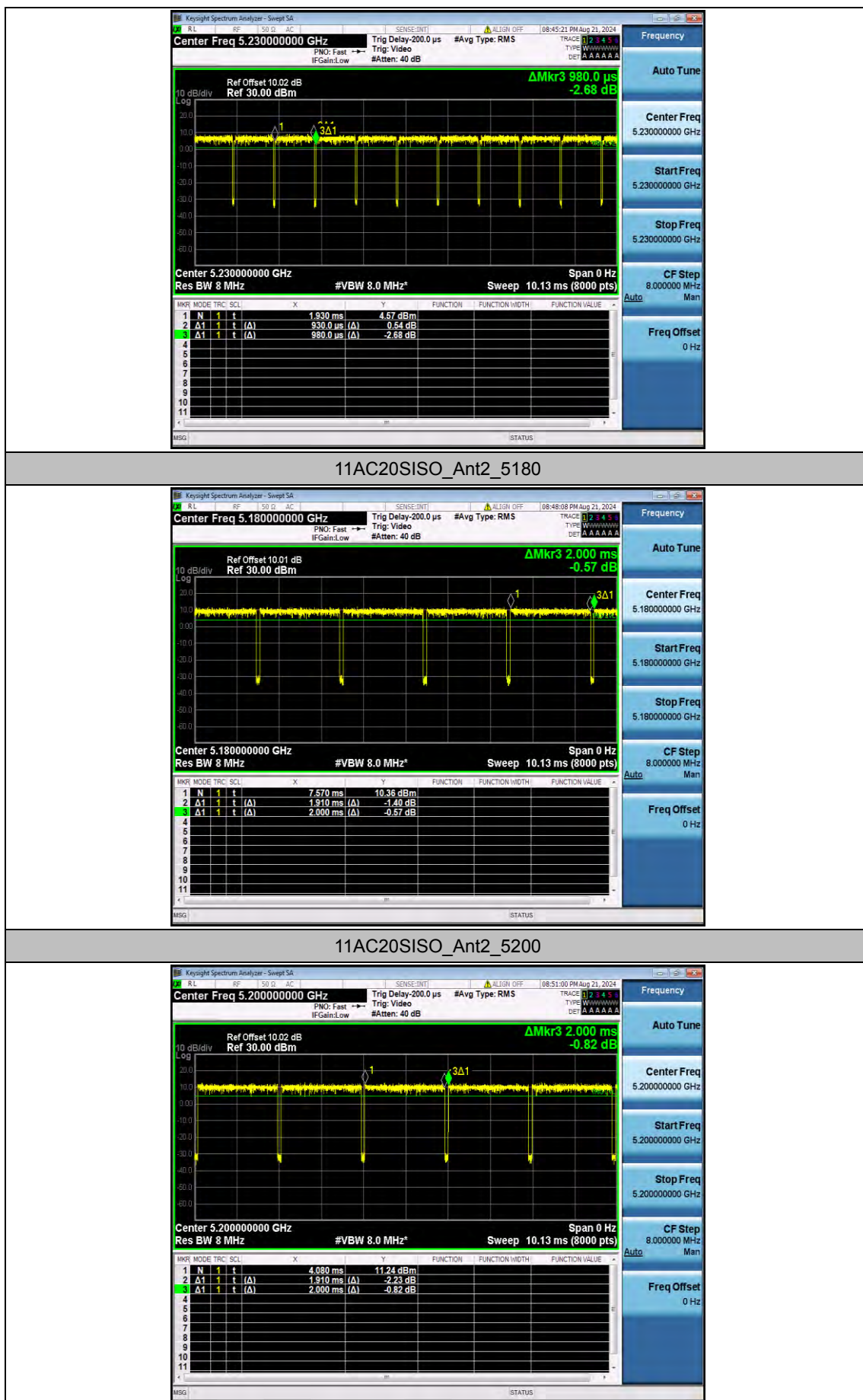
11A_Ant2_5200



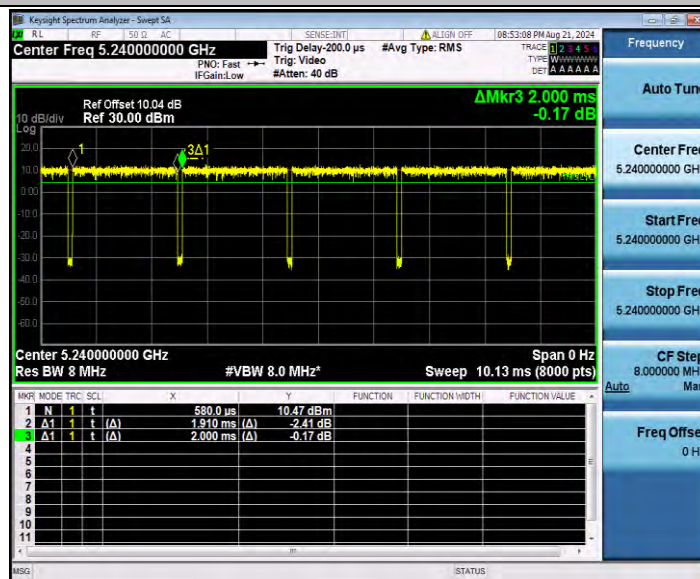
11A_Ant2_5240



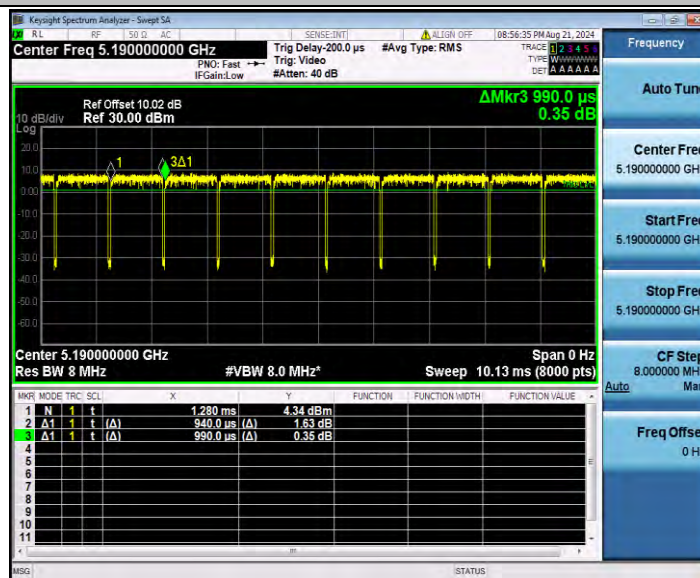




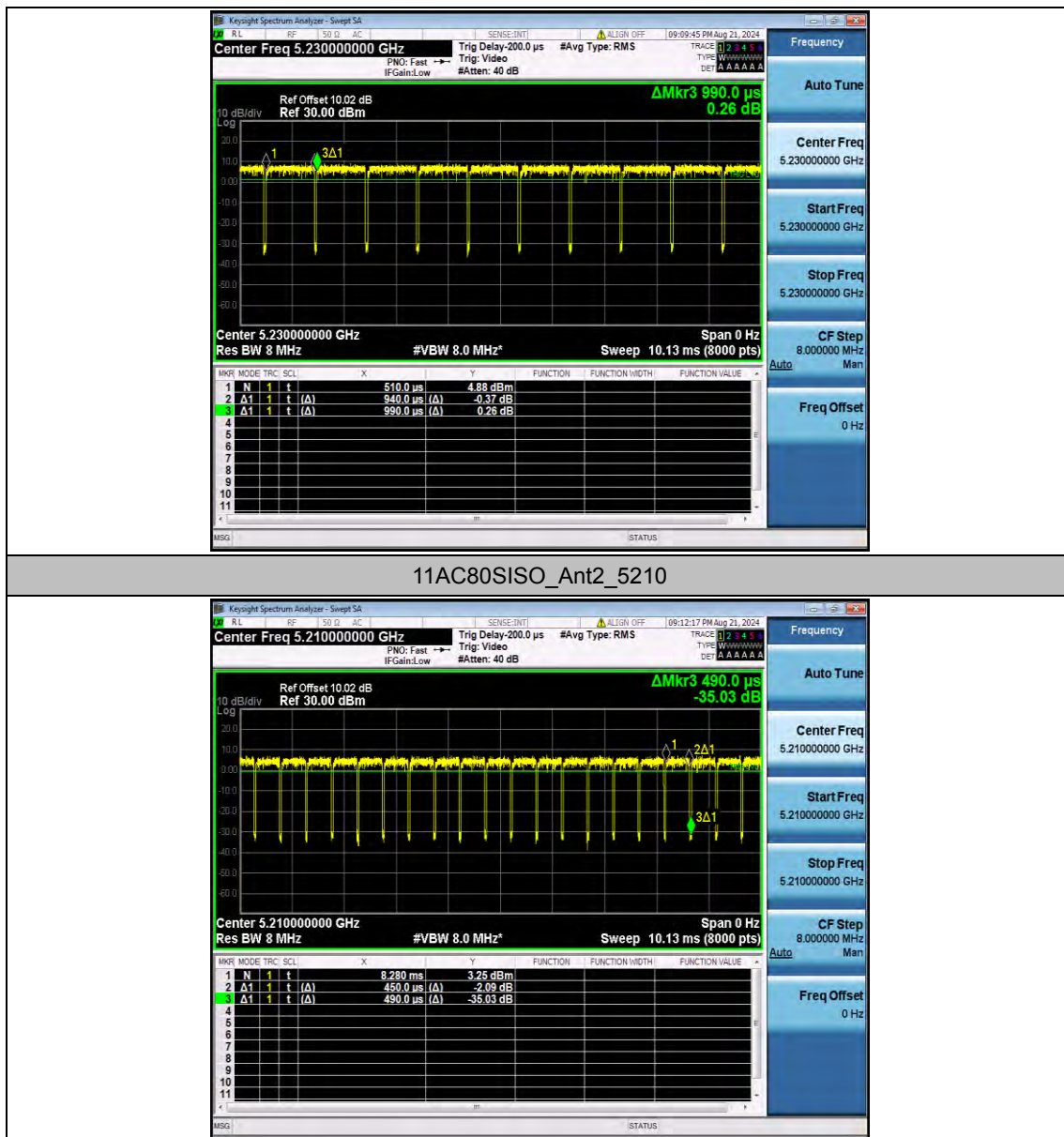
11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_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	12.87	95.77	0.19	13.06	≤23.98	PASS
		5200	13.59	95.79	0.19	13.78	≤23.98	PASS
		5240	13.44	95.79	0.19	13.63	≤23.98	PASS
11N20SISO	Ant2	5180	12.91	95.48	0.20	13.11	≤23.98	PASS
		5200	13.61	95.50	0.20	13.81	≤23.98	PASS
		5240	13.35	95.98	0.18	13.53	≤23.98	PASS
11N40SISO	Ant2	5190	13.20	95.92	0.18	13.38	≤23.98	PASS
		5230	13.50	94.90	0.23	13.73	≤23.98	PASS
11AC20SISO	Ant2	5180	12.87	95.50	0.20	13.07	≤23.98	PASS
		5200	13.65	95.50	0.20	13.85	≤23.98	PASS
		5240	13.44	95.50	0.20	13.64	≤23.98	PASS
11AC40SISO	Ant2	5190	13.23	94.95	0.23	13.46	≤23.98	PASS
		5230	13.57	94.95	0.23	13.80	≤23.98	PASS
11AC80SISO	Ant2	5210	13.41	91.84	0.37	13.78	≤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	1.30	≤11.00	PASS
		5200	2.21	≤11.00	PASS
		5240	2.08	≤11.00	PASS
11N20SISO	Ant2	5180	1.04	≤11.00	PASS
		5200	1.84	≤11.00	PASS
		5240	1.64	≤11.00	PASS
11N40SISO	Ant2	5190	-1.49	≤11.00	PASS
		5230	-1.20	≤11.00	PASS
11AC20SISO	Ant2	5180	0.97	≤11.00	PASS
		5200	1.80	≤11.00	PASS
		5240	1.70	≤11.00	PASS
11AC40SISO	Ant2	5190	-1.38	≤11.00	PASS
		5230	-1.18	≤11.00	PASS
11AC80SISO	Ant2	5210	-3.35	≤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_Ant2_5180



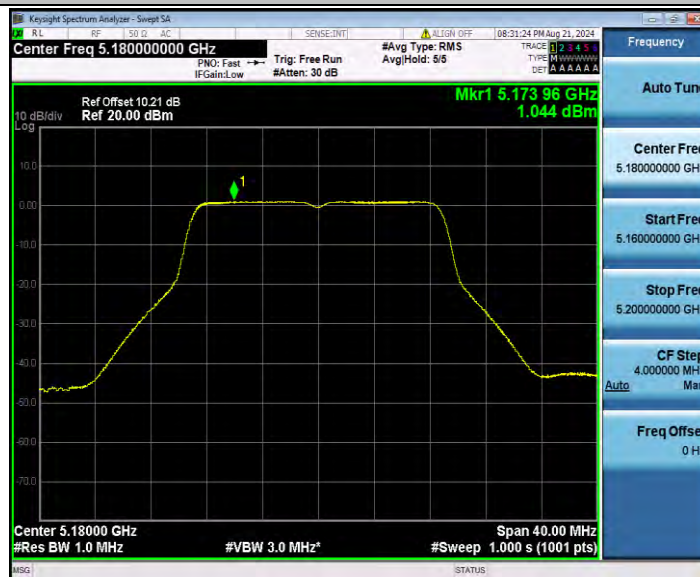
11A_Ant2_5200



11A_Ant2_5240



11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



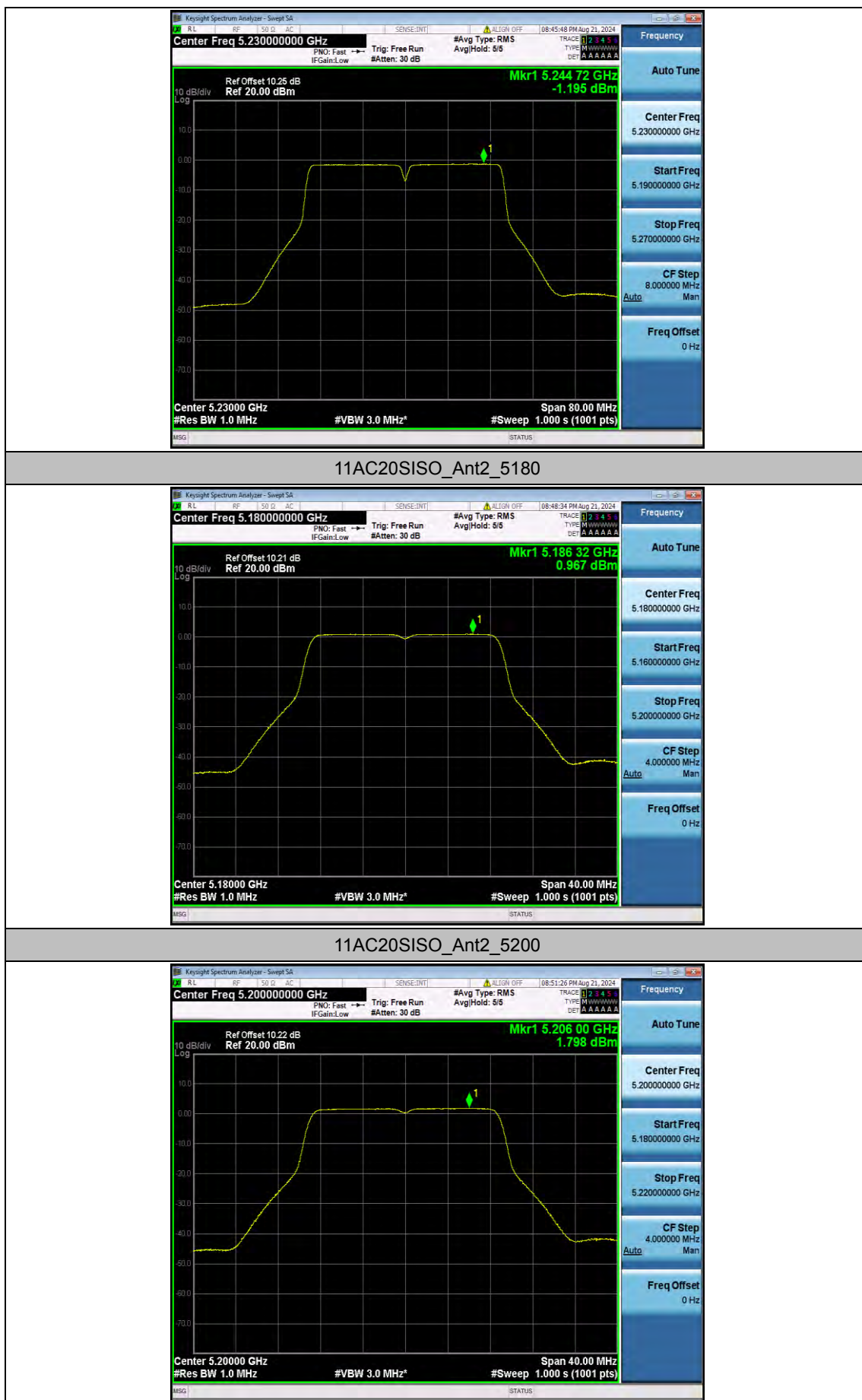
11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



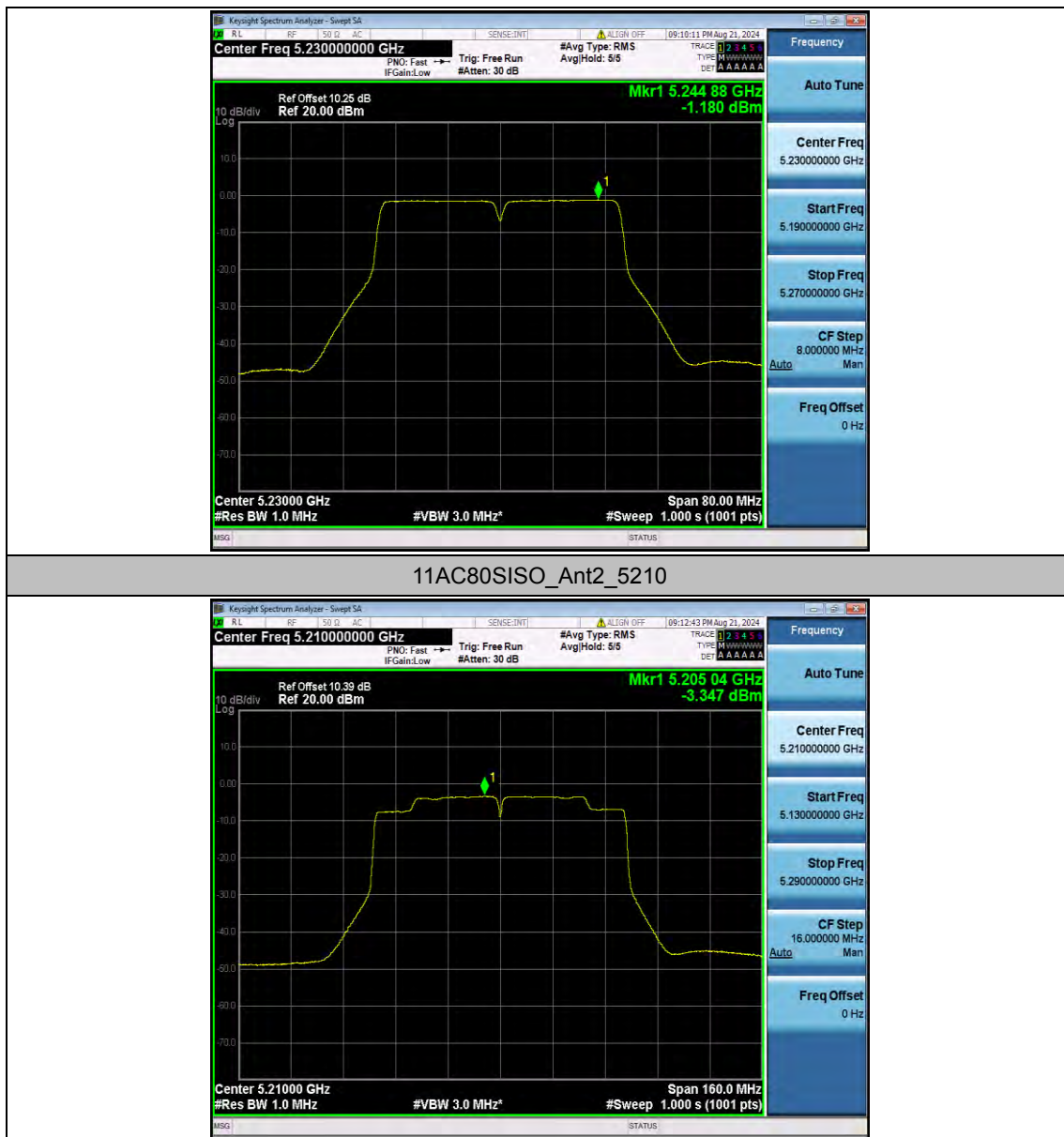
11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



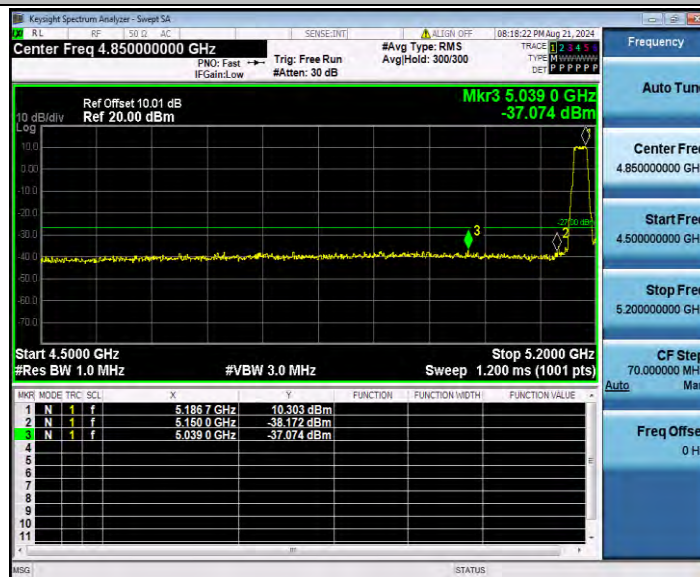
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5180	-37.07	≤ -27	PASS
		High	5240	-37.59	≤ -27	PASS
11N20SISO	Ant2	Low	5180	-37.68	≤ -27	PASS
		High	5240	-37.51	≤ -27	PASS
11N40SISO	Ant2	Low	5190	-37.07	≤ -27	PASS
		High	5230	-37.25	≤ -27	PASS
11AC20SISO	Ant2	Low	5180	-37.45	≤ -27	PASS
		High	5240	-37.24	≤ -27	PASS
11AC40SISO	Ant2	Low	5190	-37.27	≤ -27	PASS
		High	5230	-37.36	≤ -27	PASS
11AC80SISO	Ant2	Low	5210	-36.9	≤ -27	PASS
		High	5210	-37.36	≤ -27	PASS

Test Graphs B1

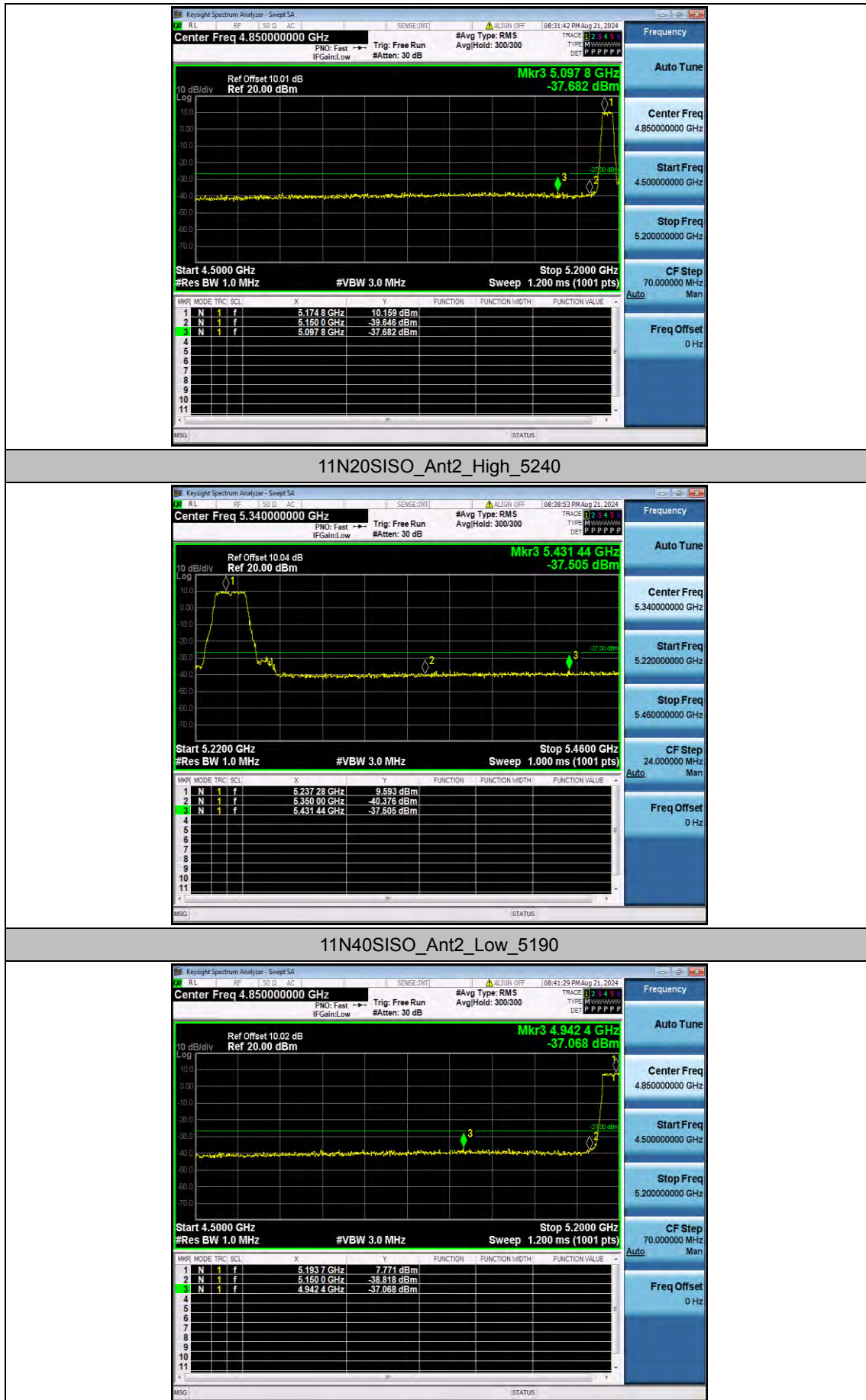
11A_Ant2_Low_5180



11A_Ant2_High_5240



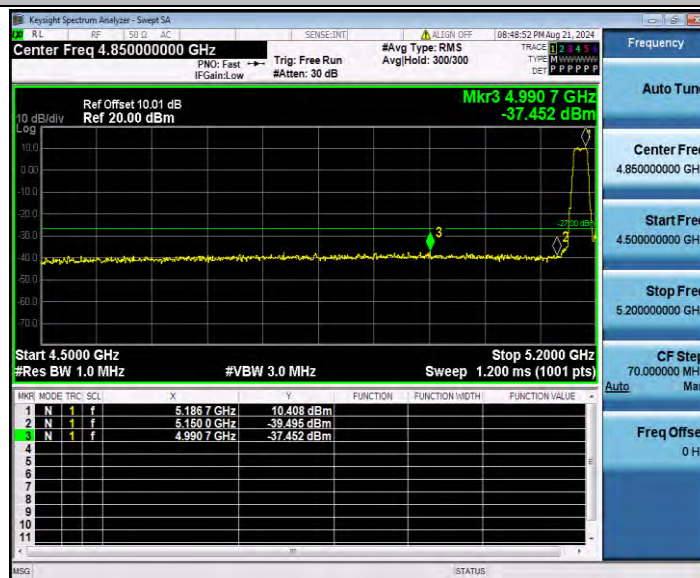
11N20SISO_Ant2_Low_5180



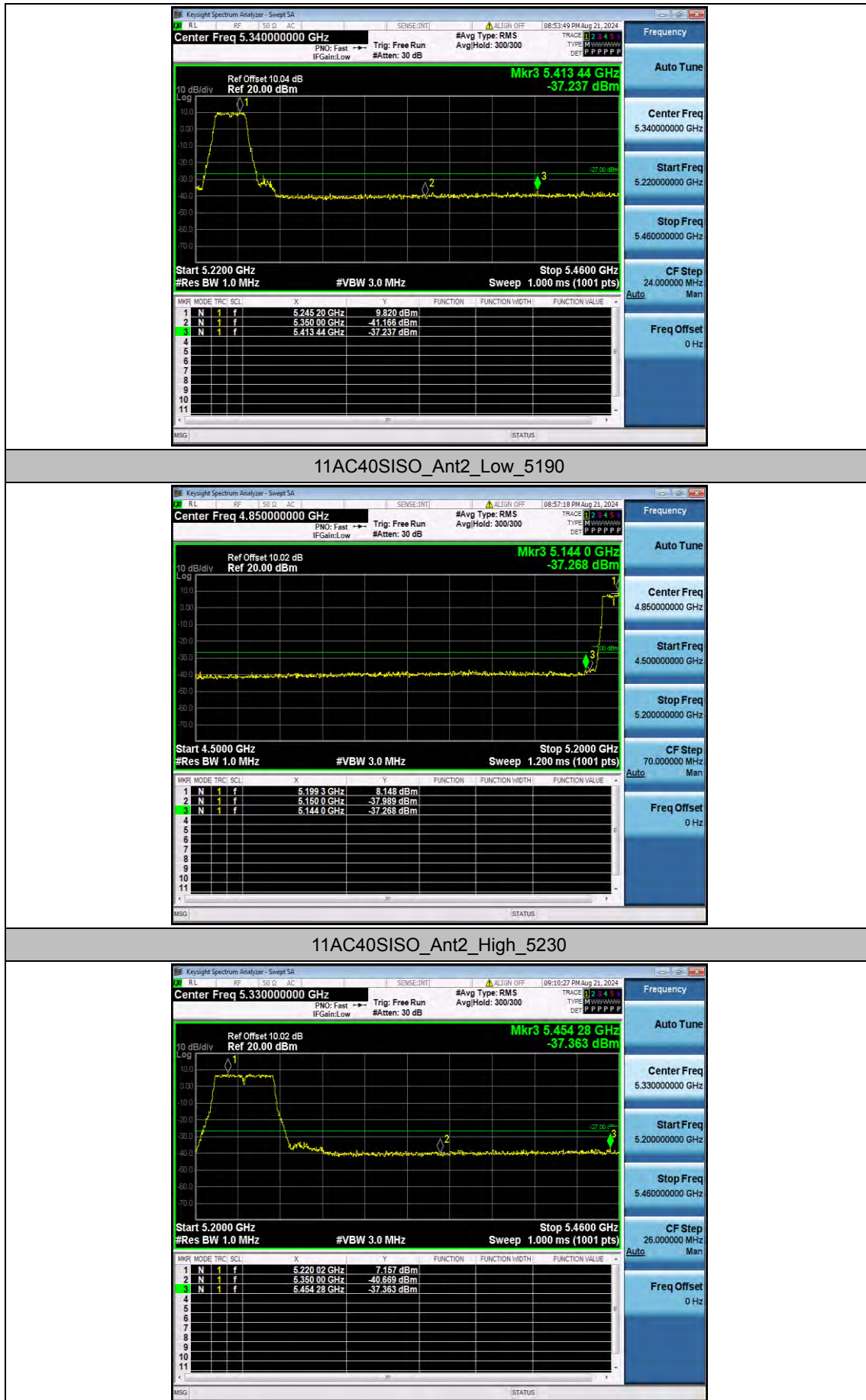
11N40SISO_Ant2_High_5230



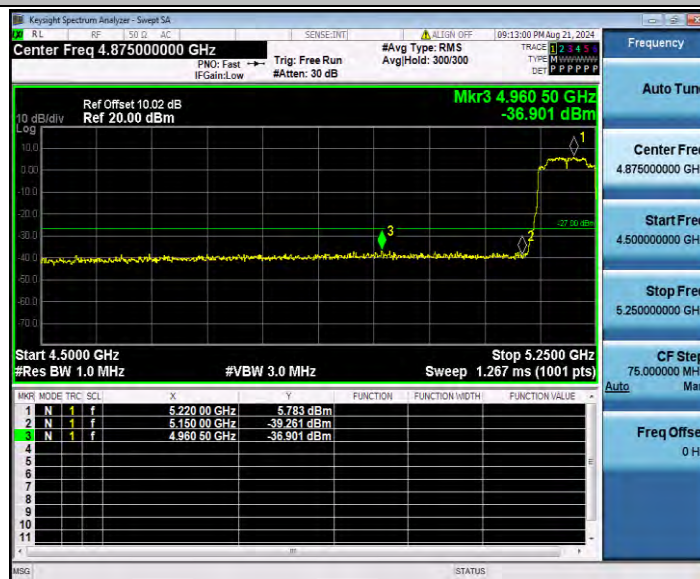
11AC20SISO_Ant2_Low_5180



11AC20SISO_Ant2_High_5240



11AC80SISO_Ant2_Low_5210



11AC80SISO_Ant2_High_5210

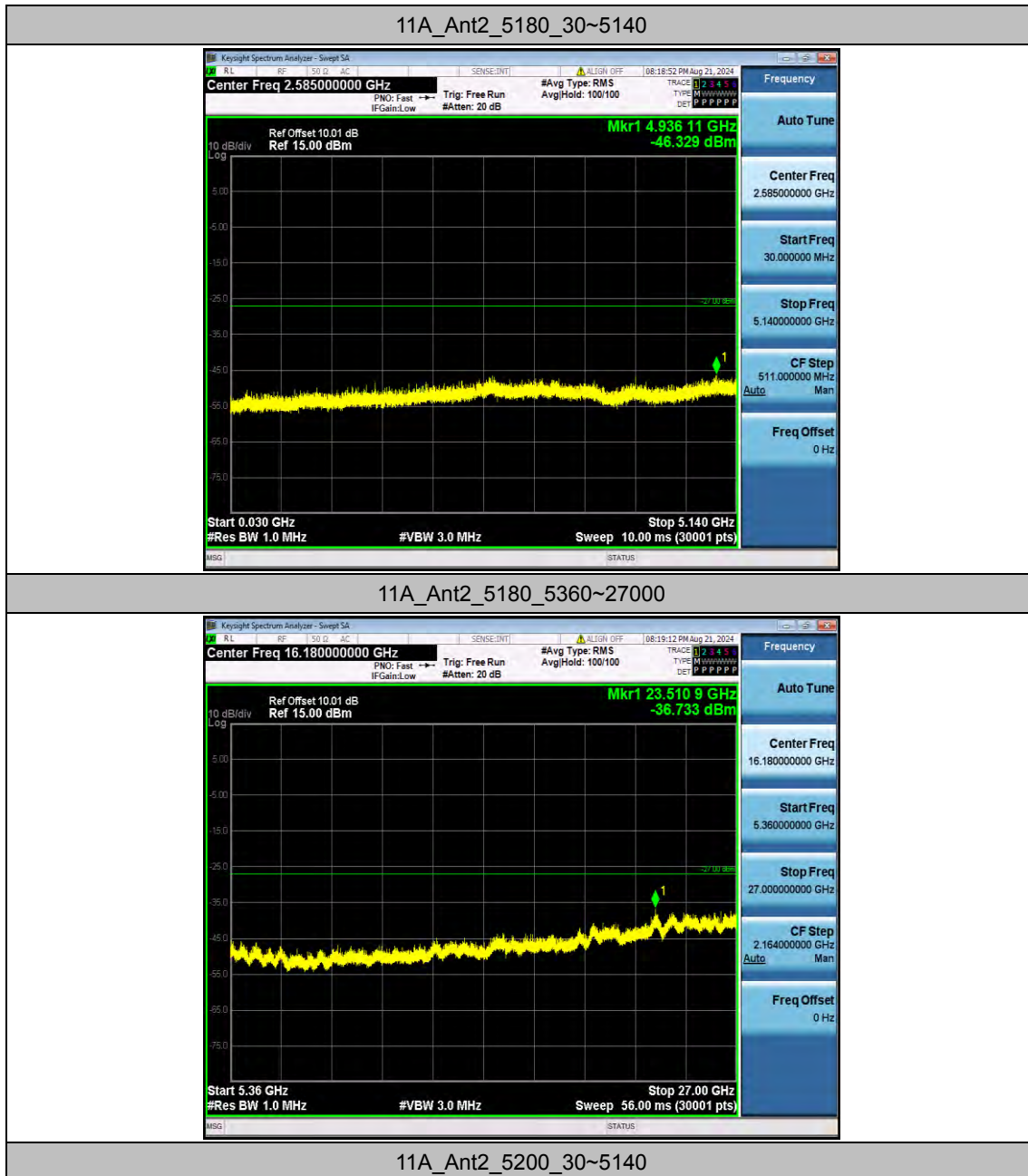


Appendix D.7: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	30~5140	4936.11	-46.33	≤-27	PASS
			5360~27000	23510.91	-36.73	≤-27	PASS
		5200	30~5140	4967.62	-45.66	≤-27	PASS
			5360~27000	25604.94	-37.18	≤-27	PASS
		5240	30~5140	4826.59	-45.29	≤-27	PASS
			5360~27000	24880	-37.29	≤-27	PASS
11N20SISO	Ant2	5180	30~5140	3342.64	-46.26	≤-27	PASS
			5360~27000	24819.41	-37	≤-27	PASS
		5200	30~5140	830.57	-43.77	≤-27	PASS
			5360~27000	24277.69	-37.2	≤-27	PASS
		5240	30~5140	827.16	-46.21	≤-27	PASS
			5360~27000	24281.29	-36.33	≤-27	PASS
11N40SISO	Ant2	5190	30~5140	826.48	-40.8	≤-27	PASS
			5360~27000	24240.9	-37.87	≤-27	PASS
		5230	30~5140	5121.26	-46.39	≤-27	PASS
			5360~27000	24850.43	-37.3	≤-27	PASS
11AC20SISO	Ant2	5180	30~5140	5000.16	-46.25	≤-27	PASS
			5360~27000	23464.02	-37.28	≤-27	PASS
		5200	30~5140	3172.65	-46.47	≤-27	PASS
			5360~27000	24931.94	-37.45	≤-27	PASS
		5240	30~5140	825.29	-44	≤-27	PASS
			5360~27000	26857.18	-36.09	≤-27	PASS
11AC40SISO	Ant2	5190	30~5140	5116.83	-44.83	≤-27	PASS
			5360~27000	26094.73	-37.37	≤-27	PASS
		5230	30~5140	5119.73	-45.2	≤-27	PASS
			5360~27000	26862.95	-37.33	≤-27	PASS
11AC80SISO	Ant2	5210	30~5140	5127.05	-42.8	≤-27	PASS
			5360~27000	23574.39	-36.1	≤-27	PASS

Test Graphs





11A_Ant2_5200_5360~27000



11A_Ant2_5240_30~5140



11A_Ant2_5240_5360~27000



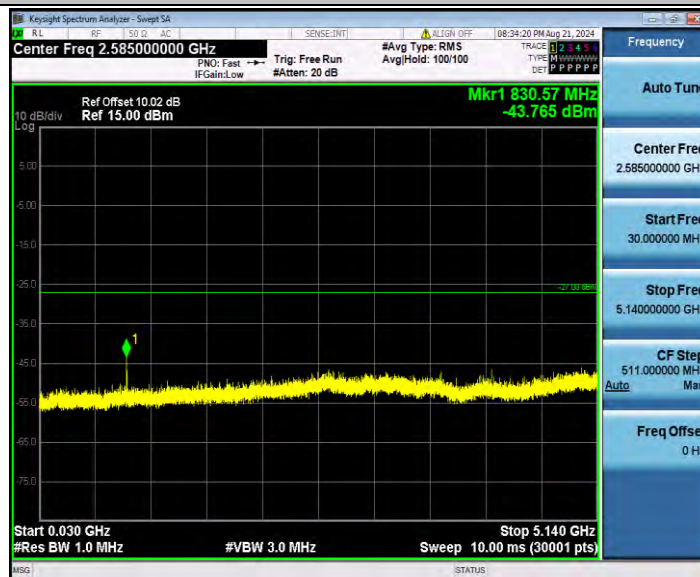
11N20SISO_Ant2_5180_30~5140



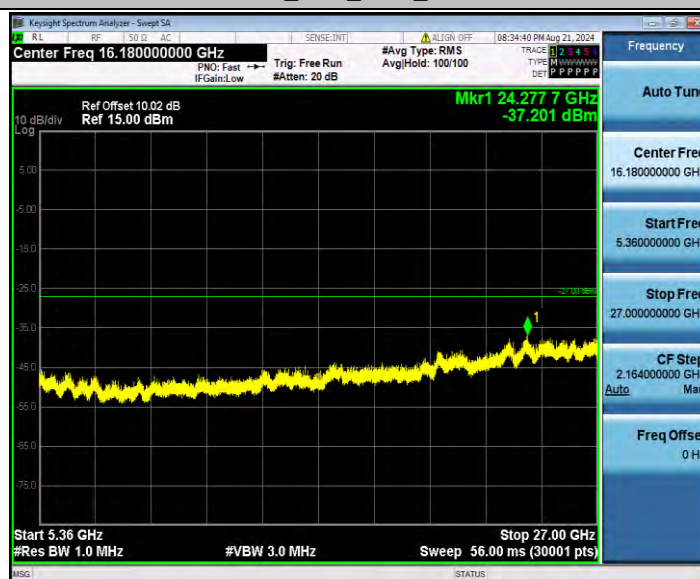
11N20SISO_Ant2_5180_5360~27000



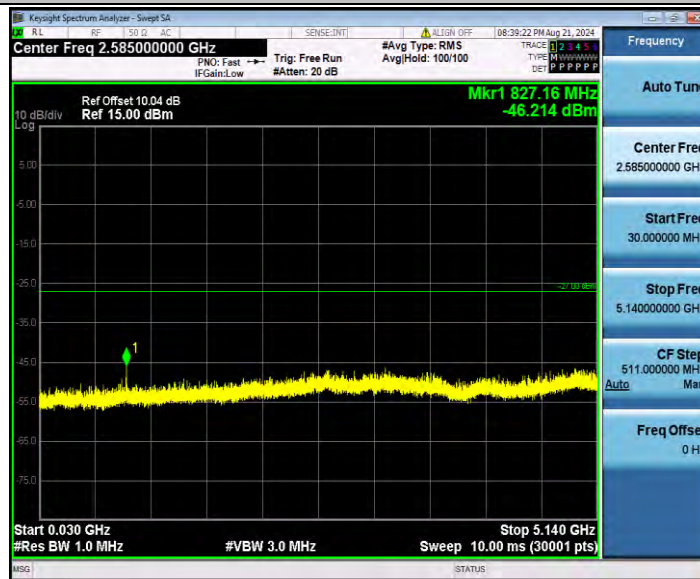
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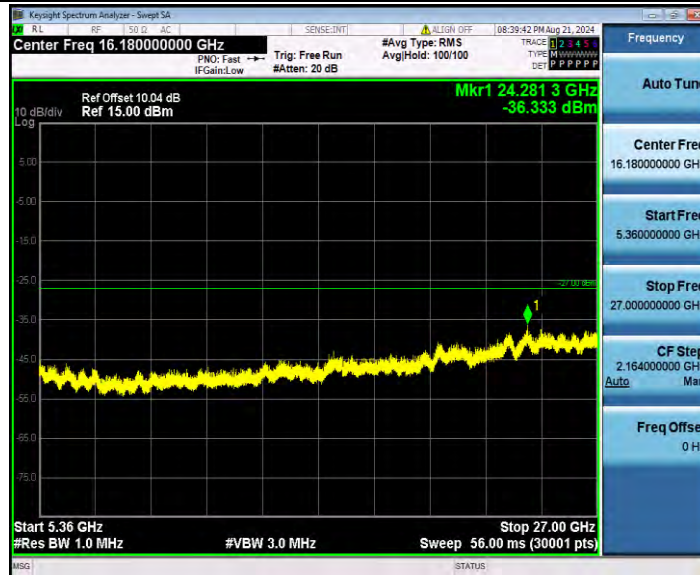
11N20SISO_Ant2_5200_5360~27000



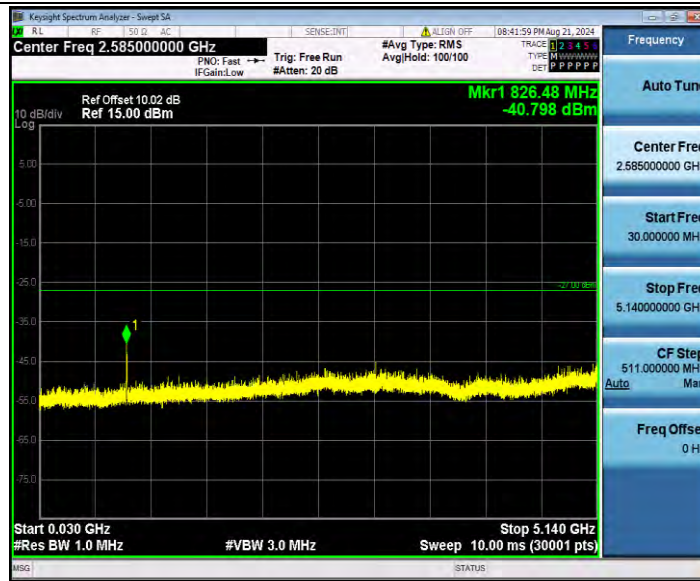
11N20SISO_Ant2_5240_30~5140



11N20SISO_Ant2_5240_5360~27000



11N40SISO_Ant2_5190_30~5140

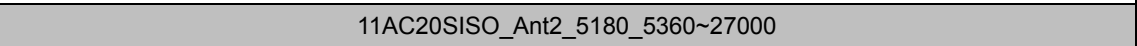
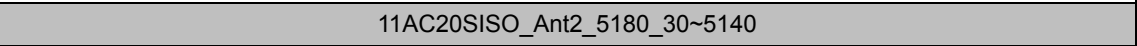


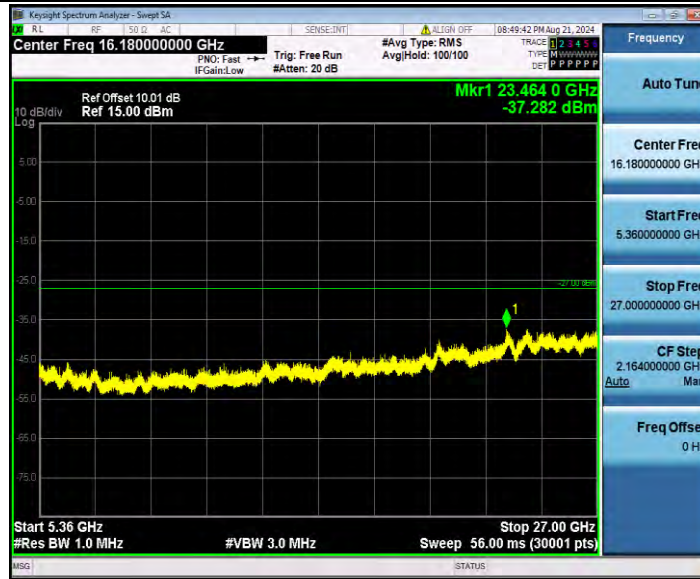
11N40SISO_Ant2_5190_5360~27000



11N40SISO_Ant2_5230_30~5140



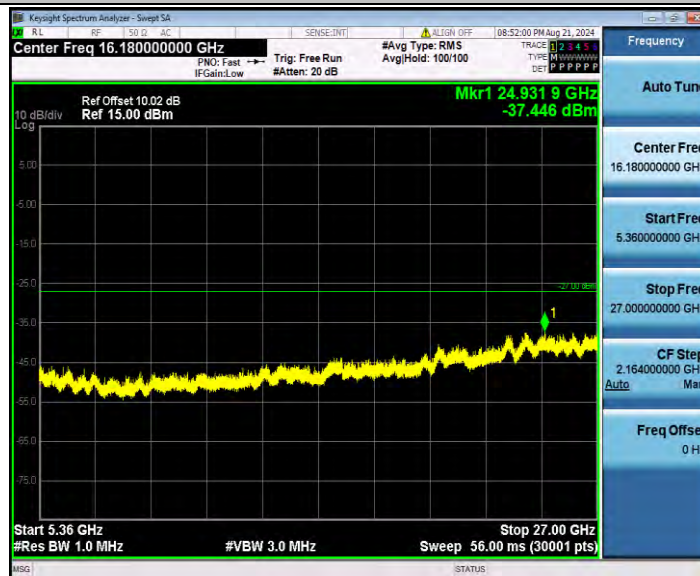




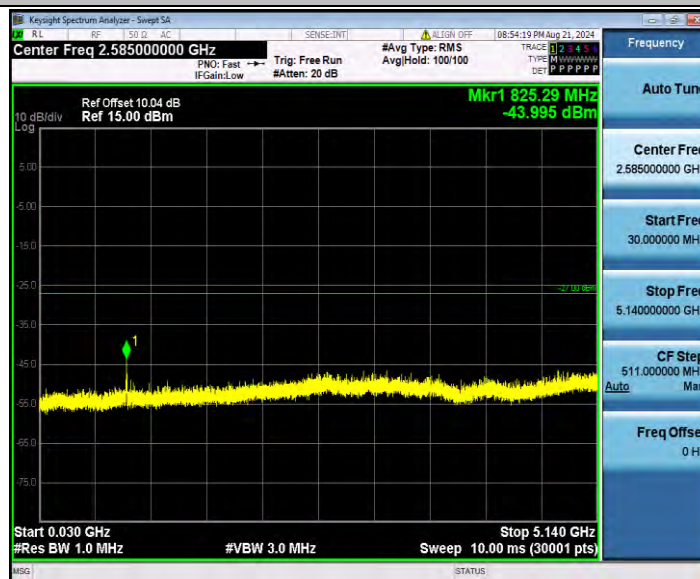
11AC20SISO_Ant2_5200_30~5140



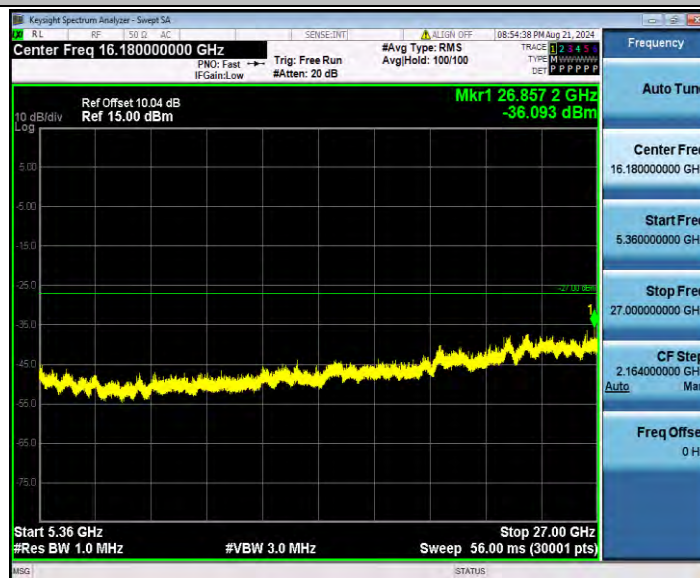
11AC20SISO_Ant2_5200_5360~27000



11AC20SISO_Ant2_5240_30~5140



11AC20SISO_Ant2_5240_5360~27000



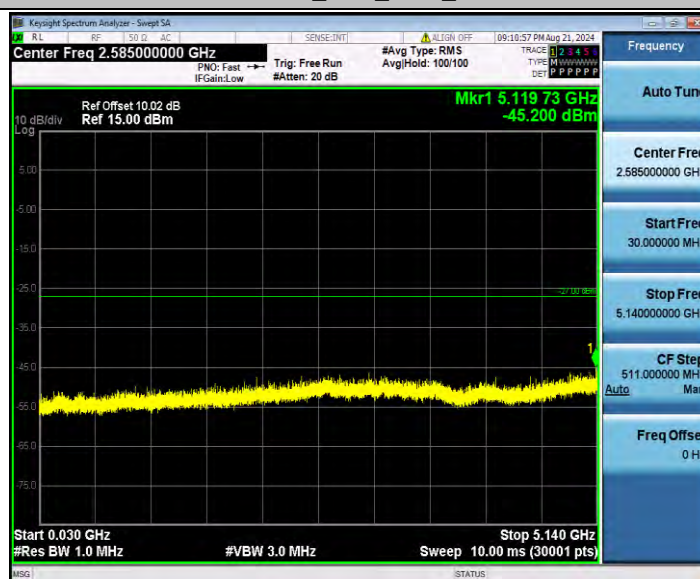
11AC40SISO_Ant2_5190_30~5140



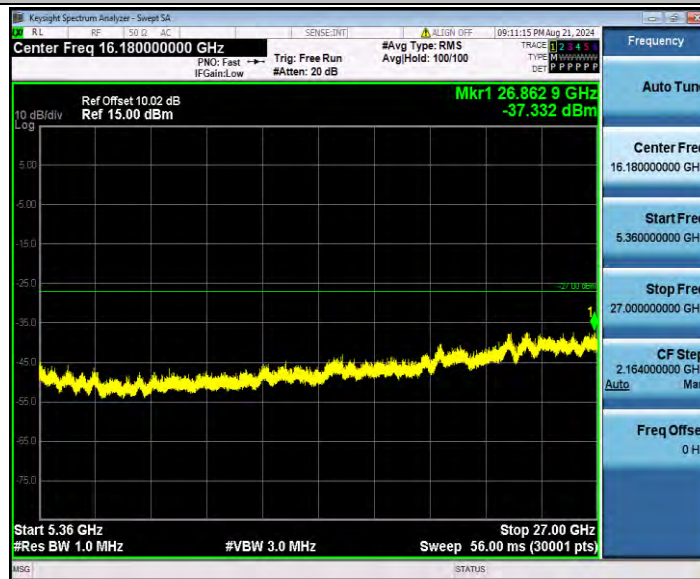
11AC40SISO_Ant2_5190_5360~27000



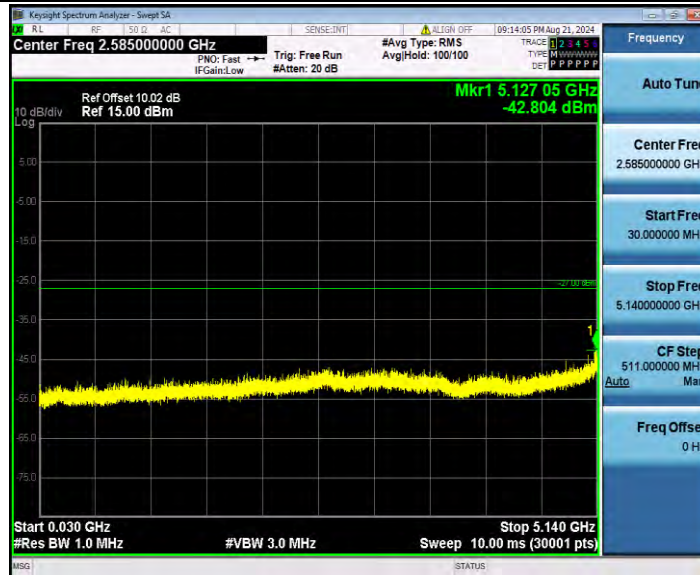
11AC40SISO_Ant2_5230_30~5140



11AC40SISO_Ant2_5230_5360~27000



11AC80SISO_Ant2_5210_30~5140



11AC80SISO_Ant2_5210_5360~27000

