

Case No. : GTS20230111005-1-13	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2023.2.15	Test Engineer: Jenny zeng

Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5180	18.520	5170.640	5189.160	---	---
		5200	18.600	5190.640	5209.240	---	---
		5240	18.640	5230.600	5249.240	---	---
11N20SISO	Ant0	5180	19.520	5170.280	5189.800	---	---
		5200	19.440	5190.280	5209.720	---	---
		5240	19.520	5230.280	5249.800	---	---
11N40SISO	Ant0	5190	40.720	5169.760	5210.480	---	---
		5230	40.880	5209.680	5250.560	---	---
11AC20SISO	Ant0	5180	19.480	5170.280	5189.760	---	---
		5200	19.560	5190.280	5209.840	---	---
		5240	19.480	5230.320	5249.800	---	---
11AC40SISO	Ant0	5190	40.880	5169.680	5210.560	---	---
		5230	41.120	5209.520	5250.640	---	---
11AC80SISO	Ant0	5210	81.120	5169.360	5250.480	---	---



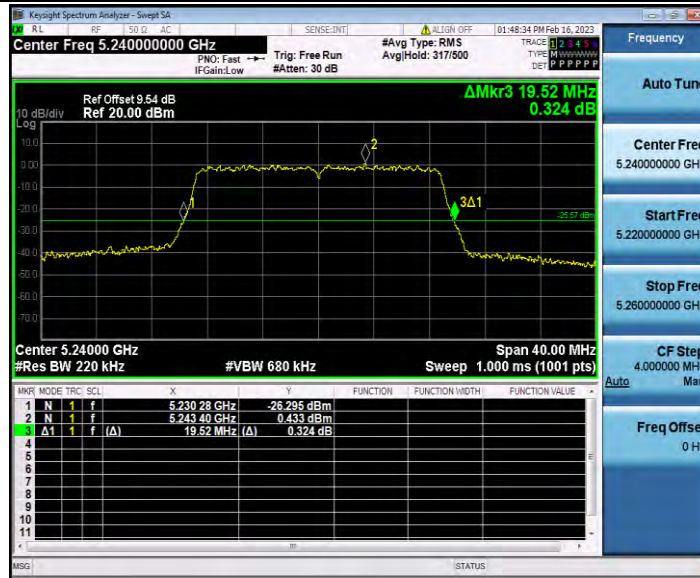
11N20SISO_Ant0_5180



11N20SISO_Ant0_5200



11N20SISO_Ant0_5240



11N40SISO_Ant0_5190



11N40SISO_Ant0_5230



11AC20SISO_Ant0_5180



11AC20SISO_Ant0_5200



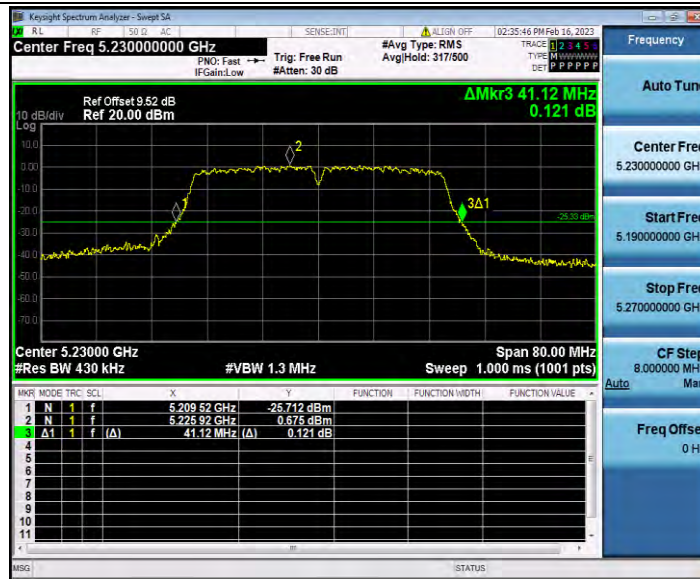
11AC20SISO_Ant0_5240



11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230



11AC80SISO_Ant0_5210



Appendix D.2: Occupied channel bandwidth

Test Result

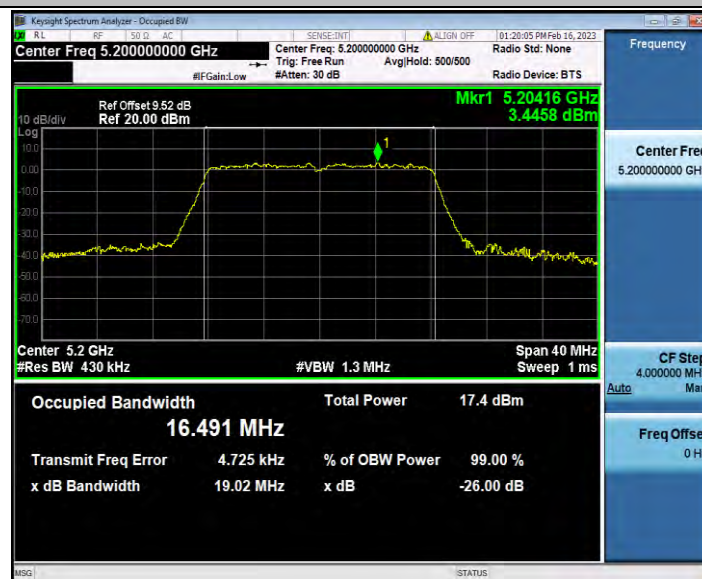
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5180	16.498	5171.735	5188.233	---	---
		5200	16.491	5191.759	5208.250	---	---
		5240	16.497	5231.749	5248.246	---	---
11N20SISO	Ant0	5180	17.616	5171.206	5188.822	---	---
		5200	17.614	5191.222	5208.836	---	---
		5240	17.626	5231.205	5248.831	---	---
11N40SISO	Ant0	5190	36.285	5171.963	5208.248	---	---
		5230	36.307	5211.918	5248.225	---	---
11AC20SISO	Ant0	5180	17.629	5171.204	5188.833	---	---
		5200	17.623	5191.216	5208.839	---	---
		5240	17.627	5231.206	5248.833	---	---
11AC40SISO	Ant0	5190	36.301	5171.953	5208.254	---	---
		5230	36.307	5211.913	5248.220	---	---
11AC80SISO	Ant0	5210	74.569	5172.856	5247.425	---	---

Test Graphs

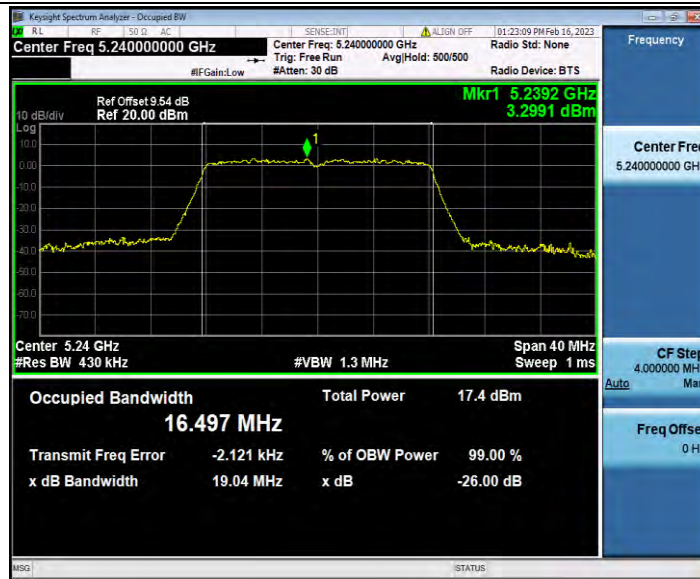
11A_Ant0_5180



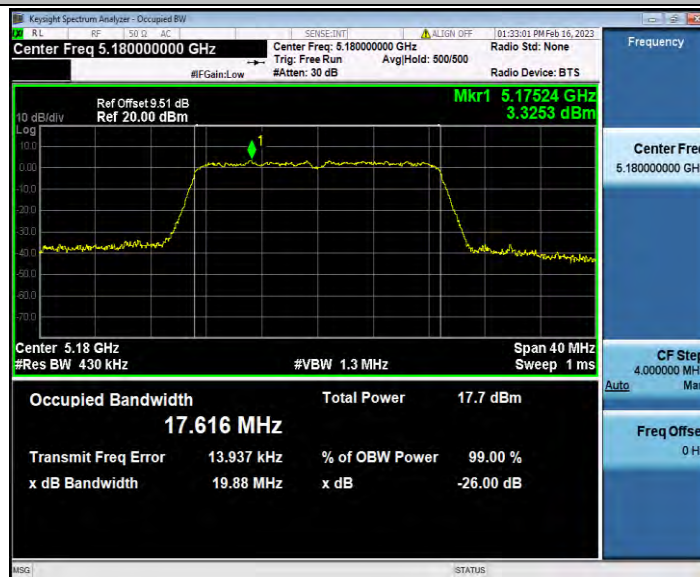
11A_Ant0_5200



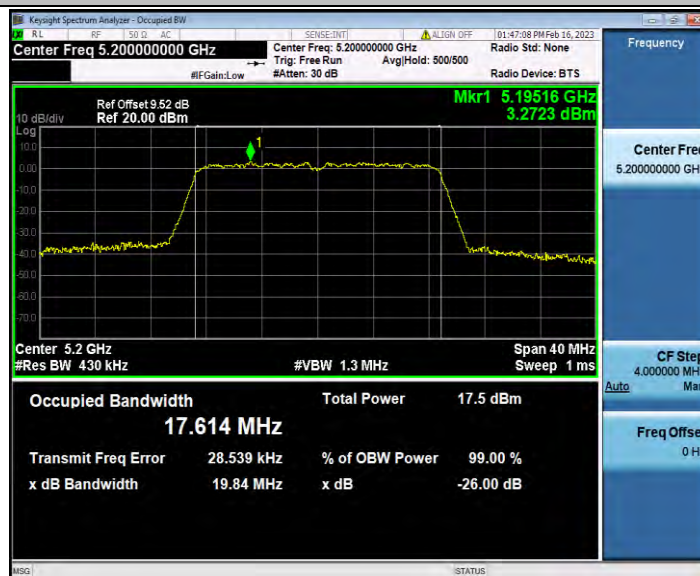
11A_Ant0_5240



11N20SISO_Ant0_5180



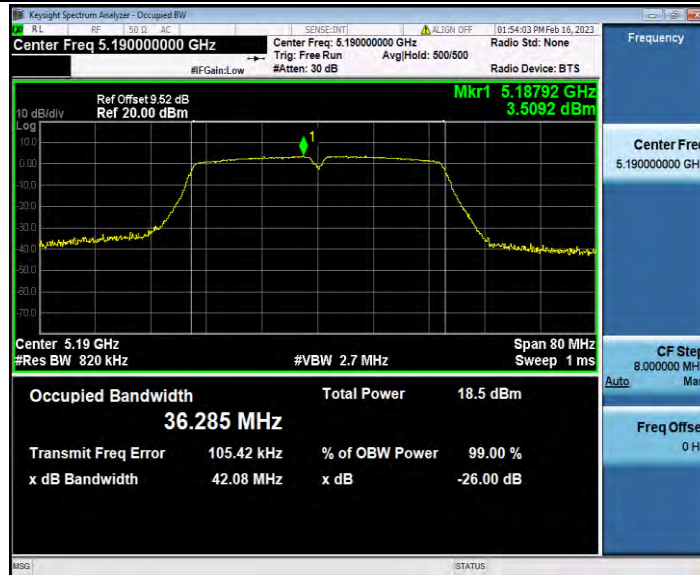
11N20SISO_Ant0_5200



11N20SISO_Ant0_5240



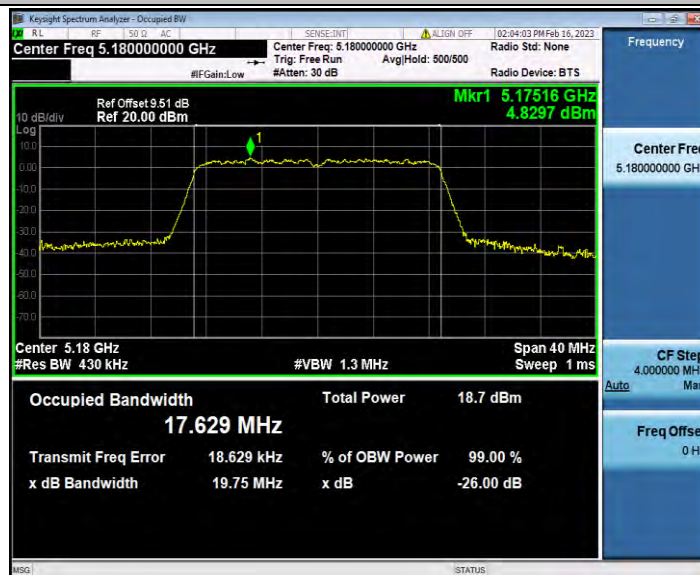
11N40SISO_Ant0_5190



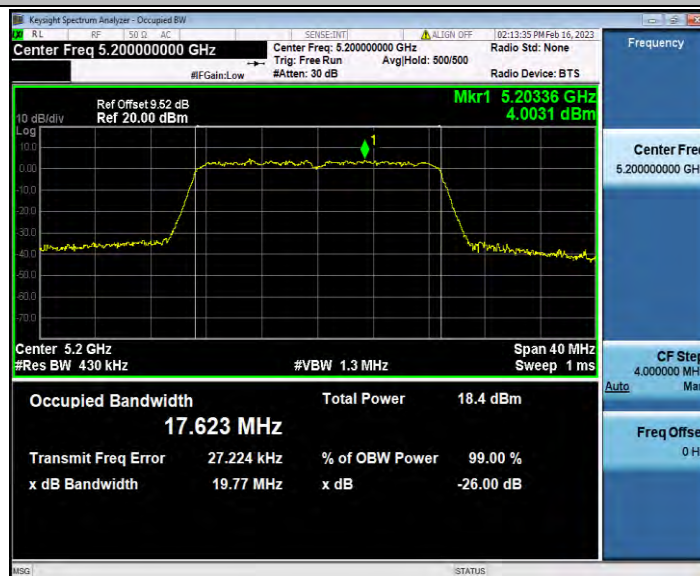
11N40SISO_Ant0_5230



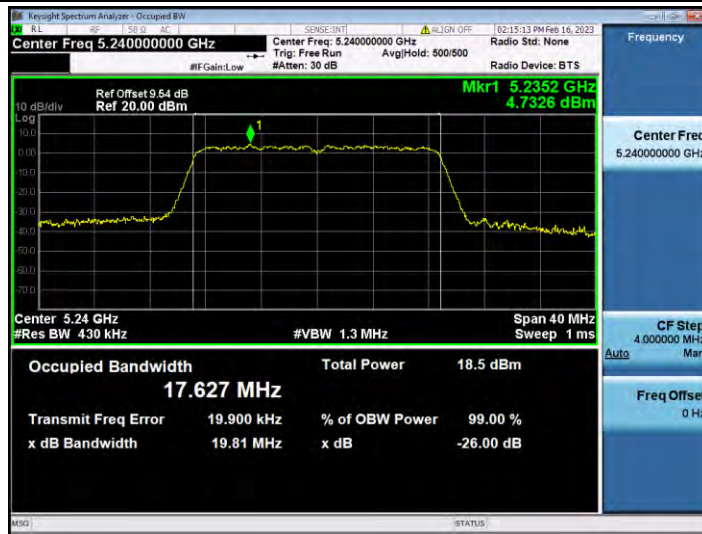
11AC20SISO_Ant0_5180



11AC20SISO_Ant0_5200



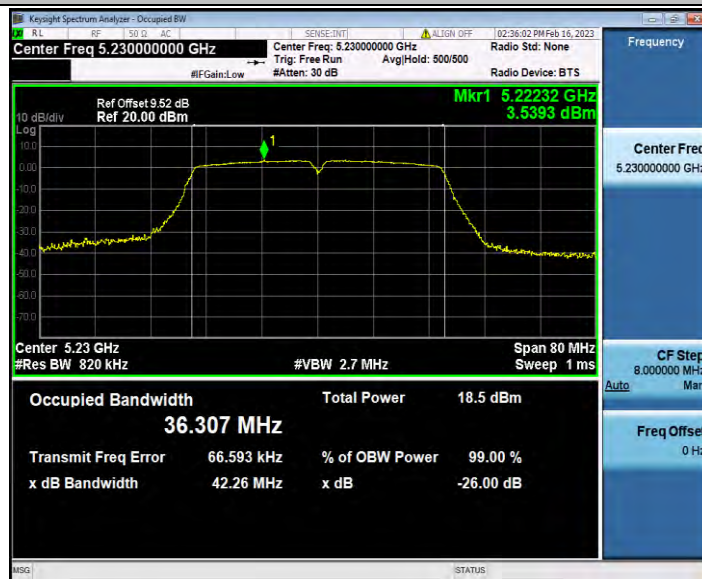
11AC20SISO_Ant0_5240



11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230



11AC80SISO_Ant0_5210



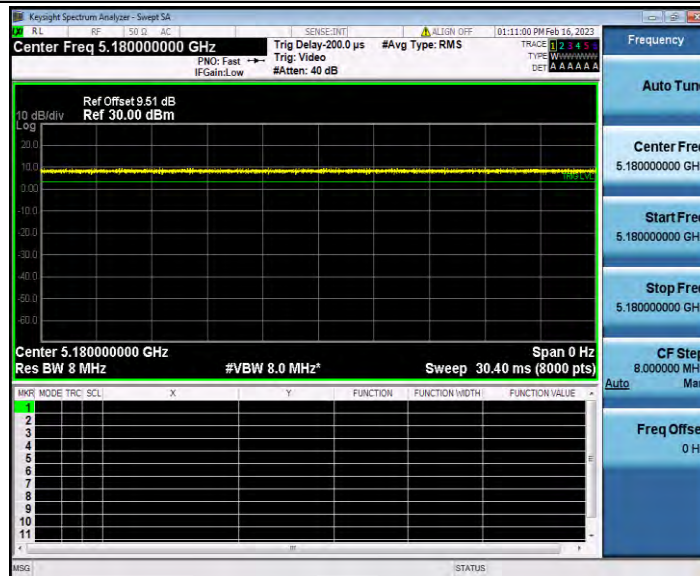
Appendix D.3: Duty Cycle

Test Result

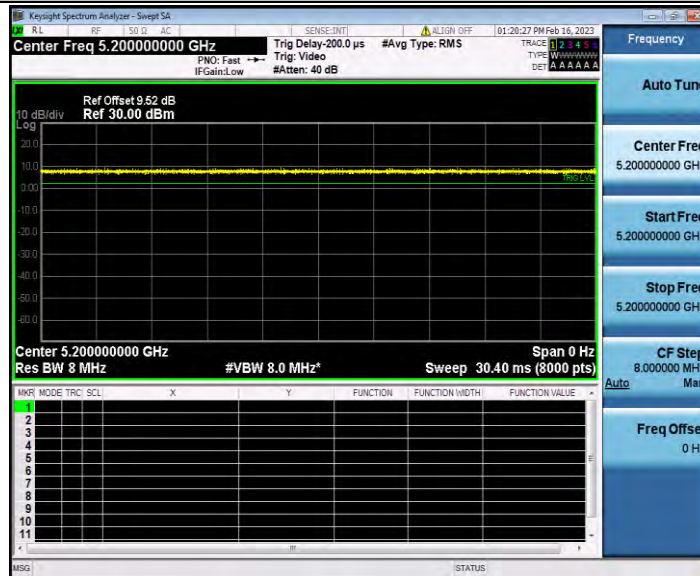
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant0	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11N20SISO	Ant0	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11N40SISO	Ant0	5190	30.00	30.00	100.00
		5230	30.00	30.00	100.00
11AC20SISO	Ant0	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11AC40SISO	Ant0	5190	30.00	30.00	100.00
		5230	30.00	30.00	100.00
11AC80SISO	Ant0	5210	30.00	30.00	100.00

Test Graphs

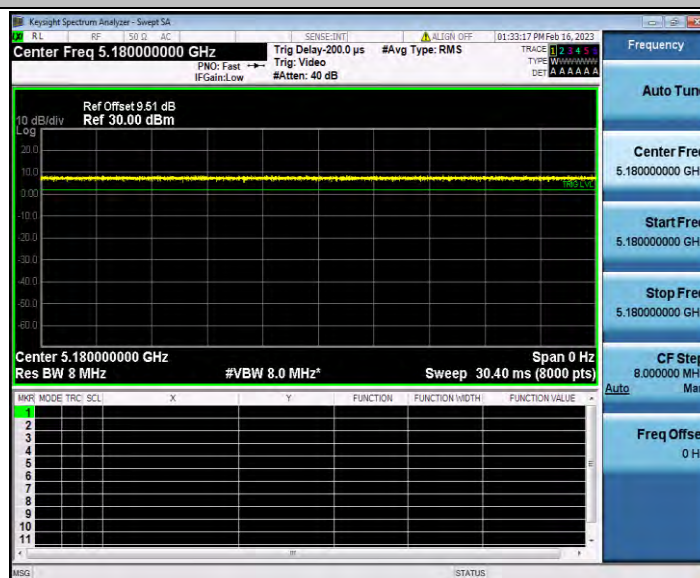
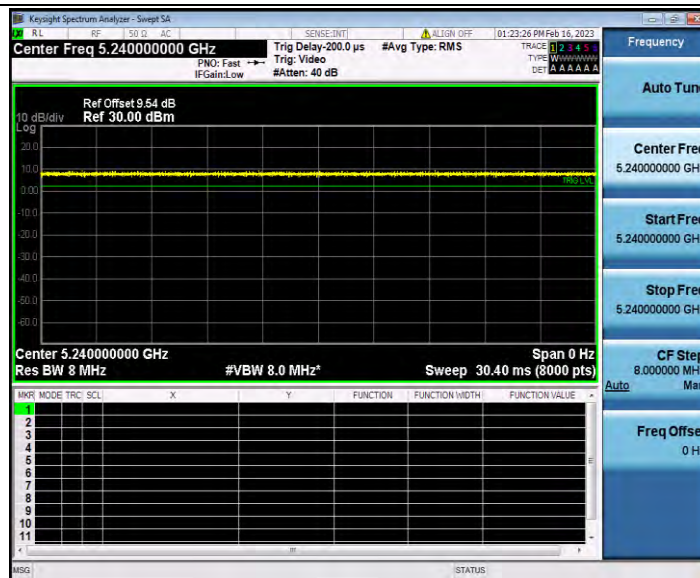
11A_Ant0_5180



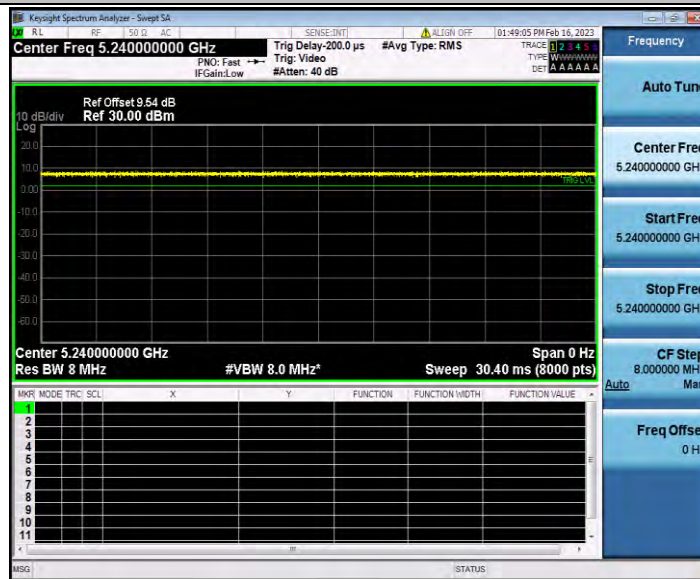
11A_Ant0_5200



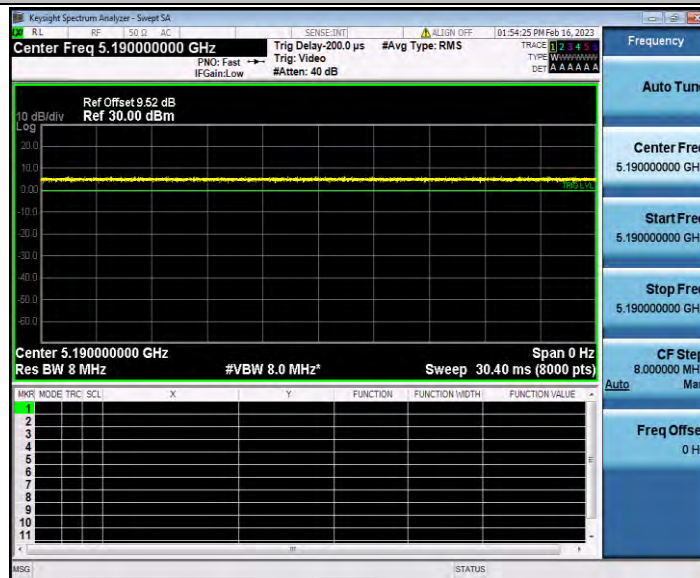
11A_Ant0_5240



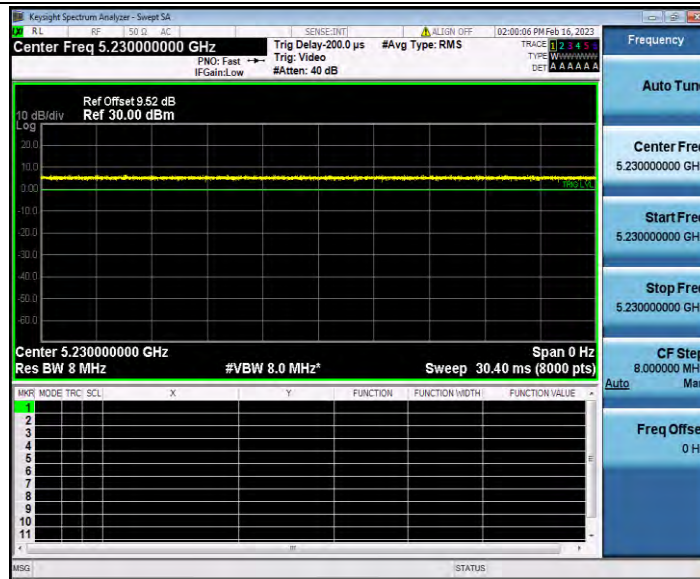
11N20SISO_Ant0_5240



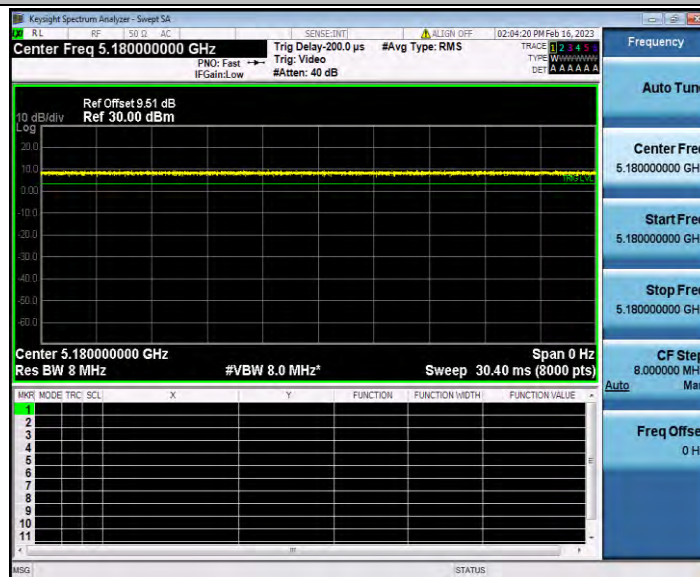
11N40SISO_Ant0_5190



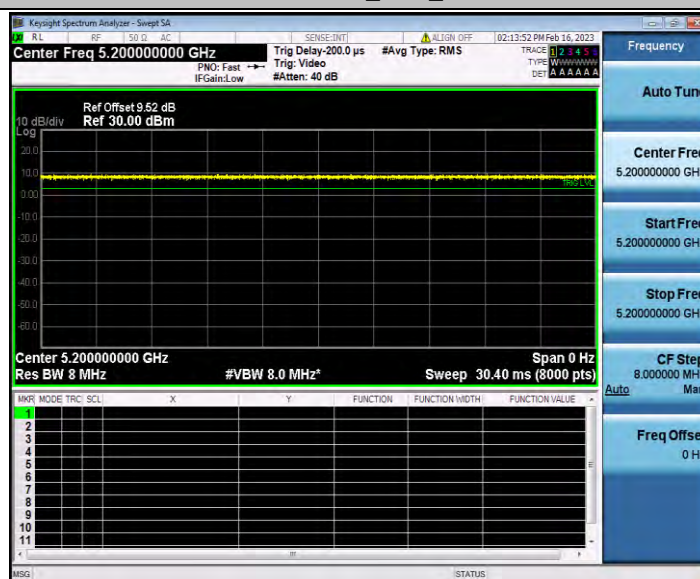
11N40SISO_Ant0_5230



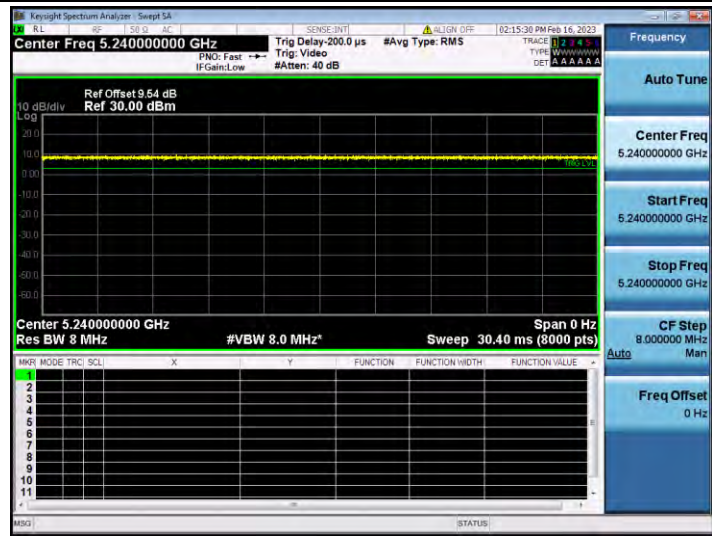
11AC20SISO_Ant0_5180



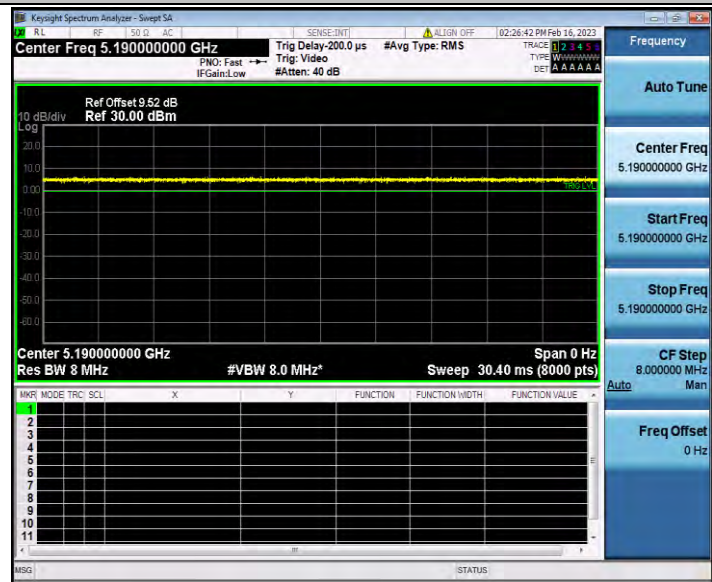
11AC20SISO_Ant0_5200



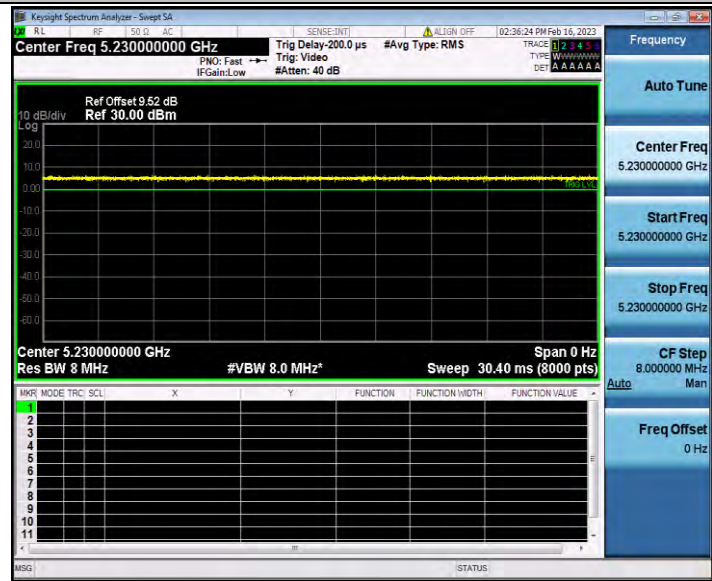
11AC20SISO_Ant0_5240



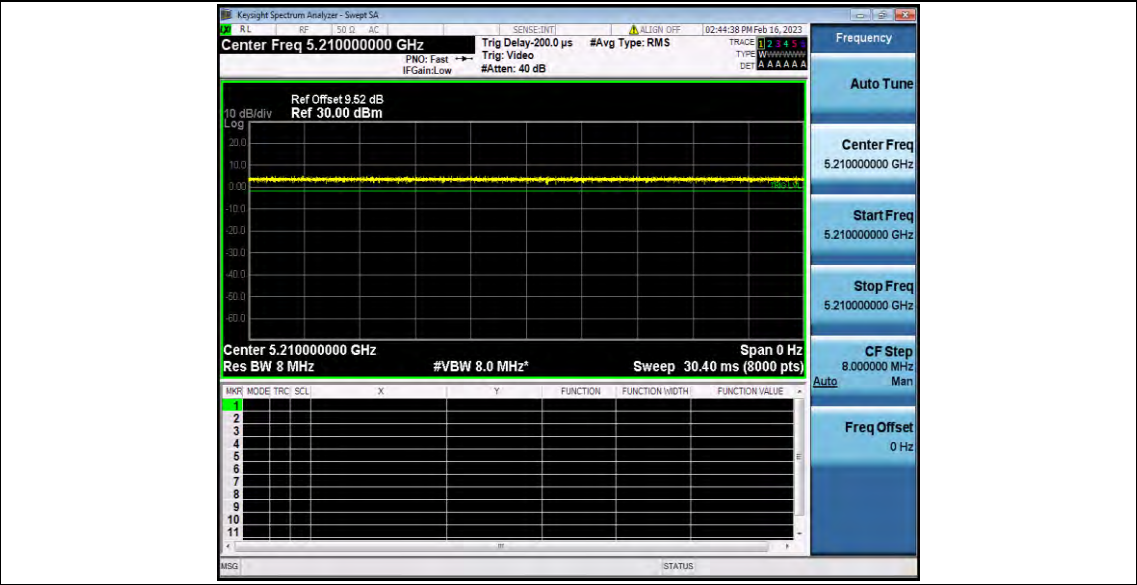
11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230



11AC80SISO_Ant0_5210



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	Ant0	5180	11.40	100.00	0.00	11.40	≤23.98	PASS
		5200	10.96	100.00	0.00	10.96	≤23.98	PASS
		5240	10.94	100.00	0.00	10.94	≤23.98	PASS
11N20SISO	Ant0	5180	10.82	100.00	0.00	10.82	≤23.98	PASS
		5200	10.86	100.00	0.00	10.86	≤23.98	PASS
		5240	10.83	100.00	0.00	10.83	≤23.98	PASS
11N40SISO	Ant0	5190	11.23	100.00	0.00	11.23	≤23.98	PASS
		5230	11.41	100.00	0.00	11.41	≤23.98	PASS
11AC20SISO	Ant0	5180	11.77	100.00	0.00	11.77	≤23.98	PASS
		5200	11.78	100.00	0.00	11.78	≤23.98	PASS
		5240	11.79	100.00	0.00	11.79	≤23.98	PASS
11AC40SISO	Ant0	5190	11.23	100.00	0.00	11.23	≤23.98	PASS
		5230	11.30	100.00	0.00	11.30	≤23.98	PASS
11AC80SISO	Ant0	5210	13.18	100.00	0.00	10.18	≤23.98	PASS

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

Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant0	5180	-0.45	≤11.00	PASS
		5200	-0.71	≤11.00	PASS
		5240	-0.68	≤11.00	PASS
11N20SISO	Ant0	5180	-1.2	≤11.00	PASS
		5200	-1.1	≤11.00	PASS
		5240	-1.12	≤11.00	PASS
11N40SISO	Ant0	5190	-3.17	≤11.00	PASS
		5230	-3.07	≤11.00	PASS
11AC20SISO	Ant0	5180	-0.28	≤11.00	PASS
		5200	-0.18	≤11.00	PASS
		5240	-0.27	≤11.00	PASS
11AC40SISO	Ant0	5190	-3.27	≤11.00	PASS
		5230	-3.24	≤11.00	PASS
11AC80SISO	Ant0	5210	-4.4	≤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_Ant0_5180



11A_Ant0_5200



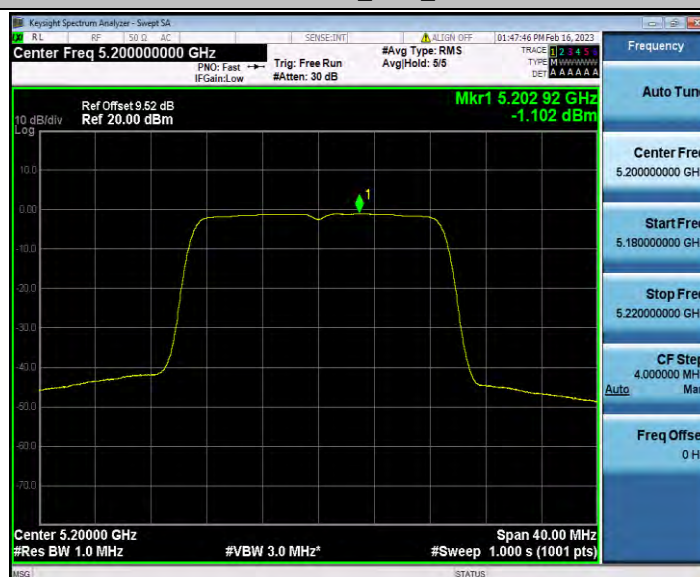
11A_Ant0_5240



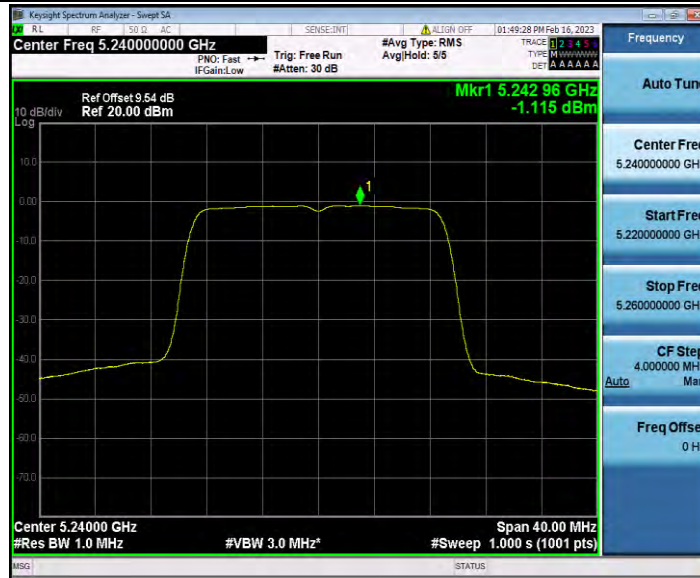
11N20SISO_Ant0_5180



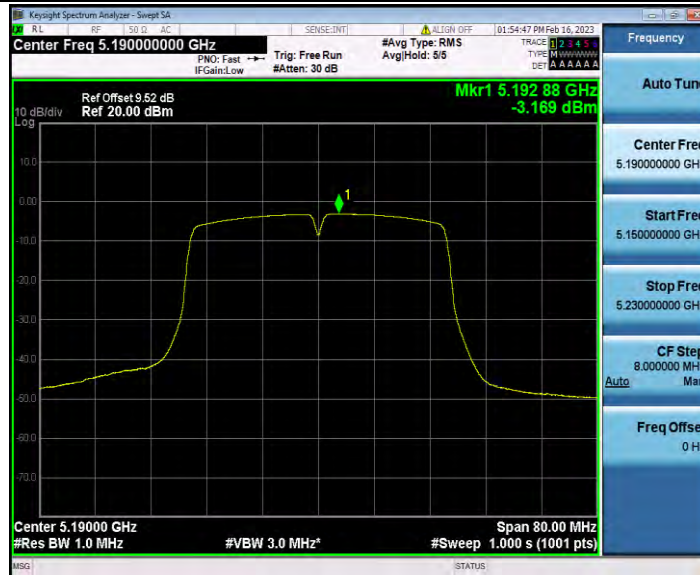
11N20SISO_Ant0_5200



11N20SISO_Ant0_5240



11N40SISO_Ant0_5190



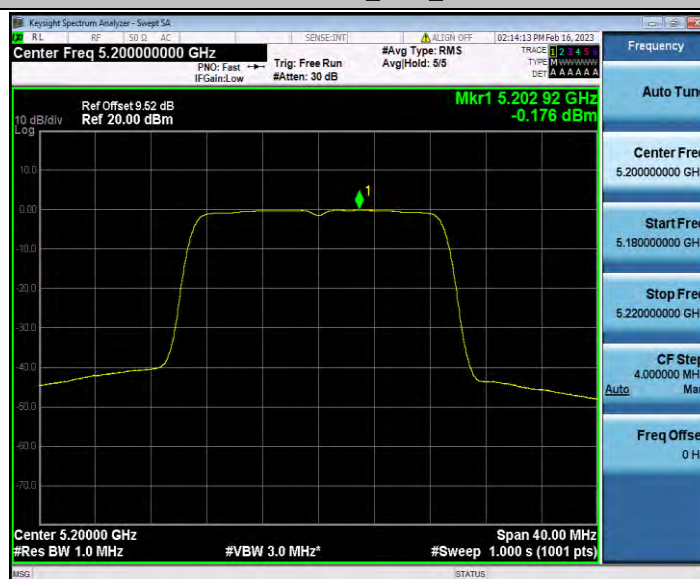
11N40SISO_Ant0_5230



11AC20SISO_Ant0_5180



11AC20SISO_Ant0_5200



11AC20SISO_Ant0_5240



11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230



11AC80SISO_Ant0_5210



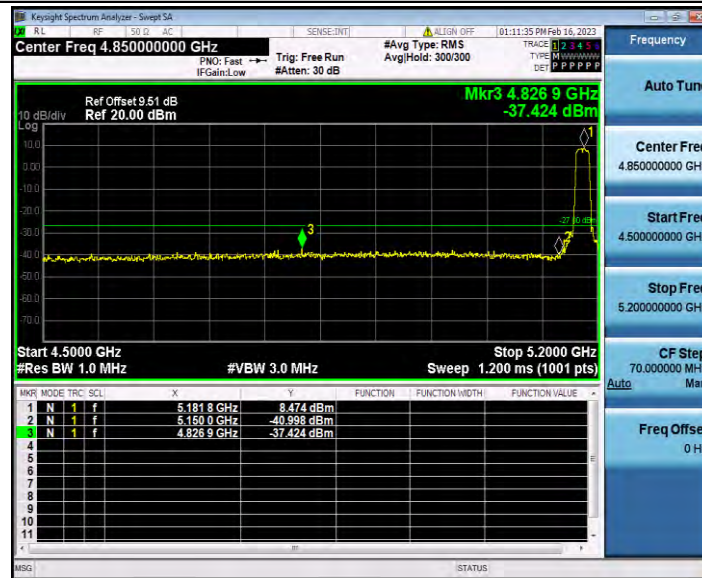
Appendix D.6: Band edge measurements

Test Result B1

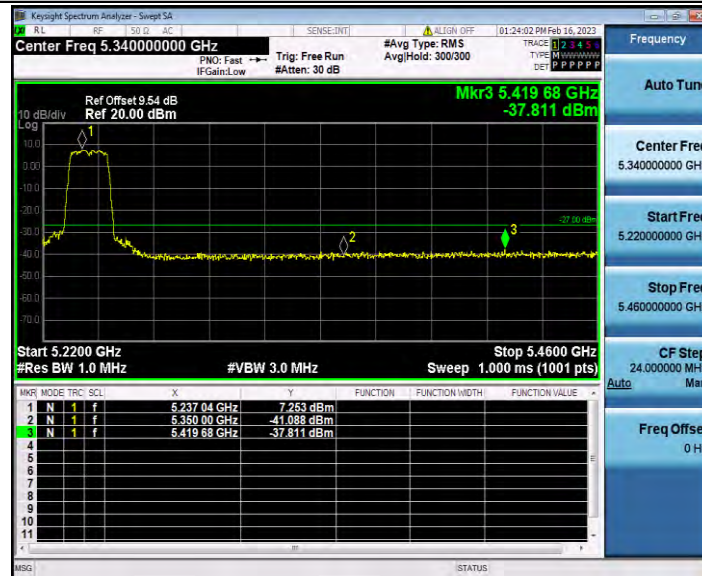
TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant0	Low	5180	-37.42	≤-27	PASS
		High	5240	-37.81	≤-27	PASS
11N20SISO	Ant0	Low	5180	-37.99	≤-27	PASS
		High	5240	-37.32	≤-27	PASS
11N40SISO	Ant0	Low	5190	-37.84	≤-27	PASS
		High	5230	-37.96	≤-27	PASS
11AC20SISO	Ant0	Low	5180	-37.85	≤-27	PASS
		High	5240	-36.84	≤-27	PASS
11AC40SISO	Ant0	Low	5190	-37.7	≤-27	PASS
		High	5230	-37.27	≤-27	PASS
11AC80SISO	Ant0	Low	5210	-31.94	≤-27	PASS
		High	5210	-37.62	≤-27	PASS

Test Graphs B1

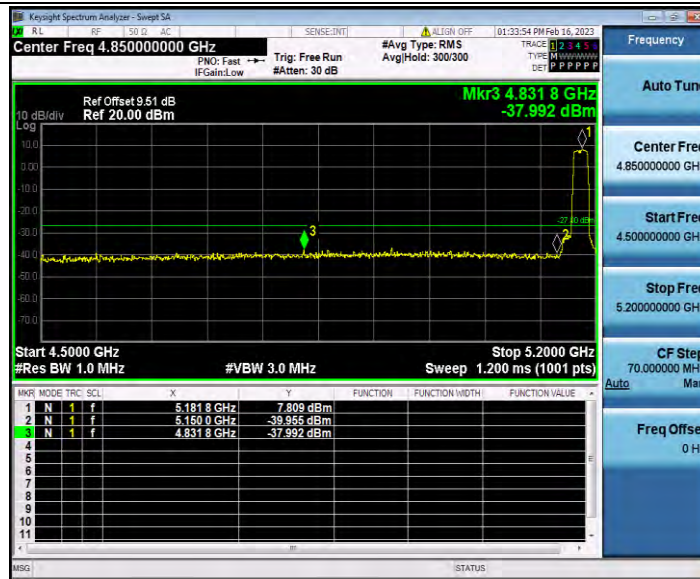
11A_Ant0_Low_5180



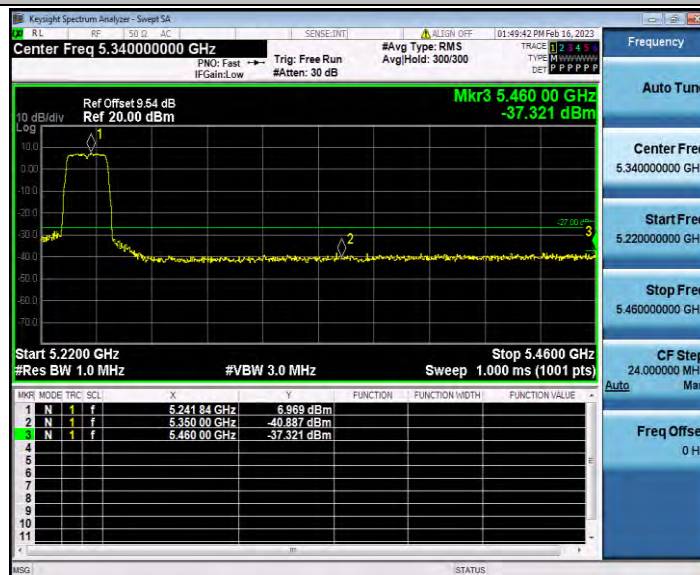
11A_Ant0_High_5240



11N20SISO_Ant0_Low_5180



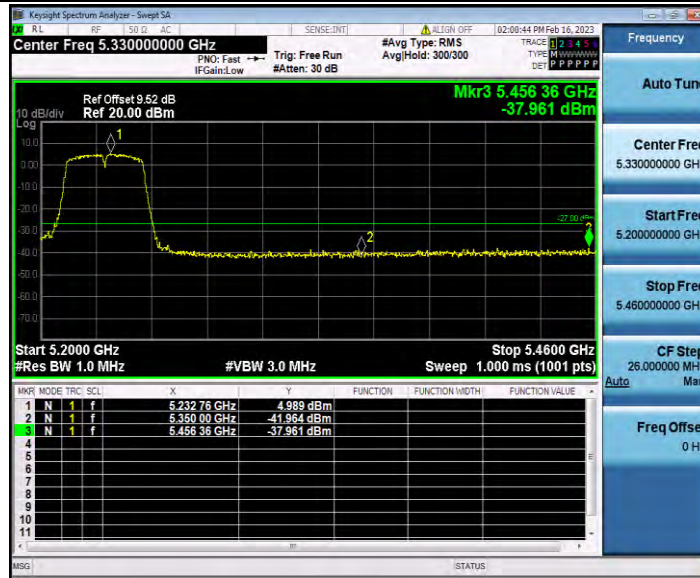
11N20SISO_Ant0_High_5240



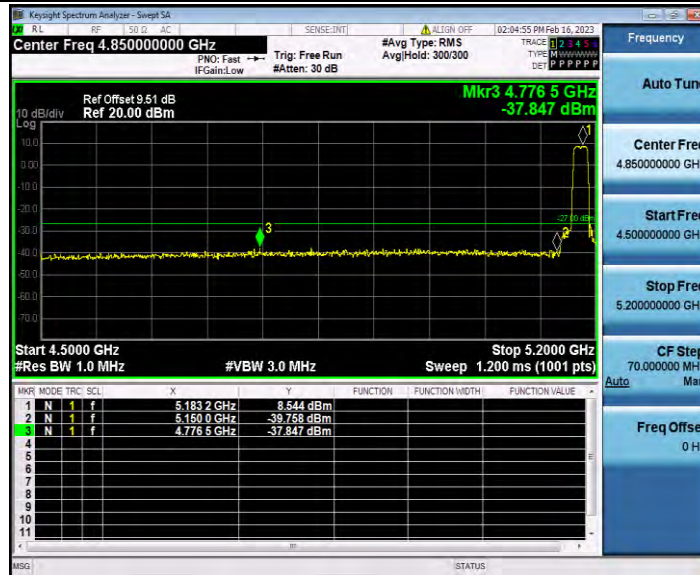
11N40SISO_Ant0_Low_5190



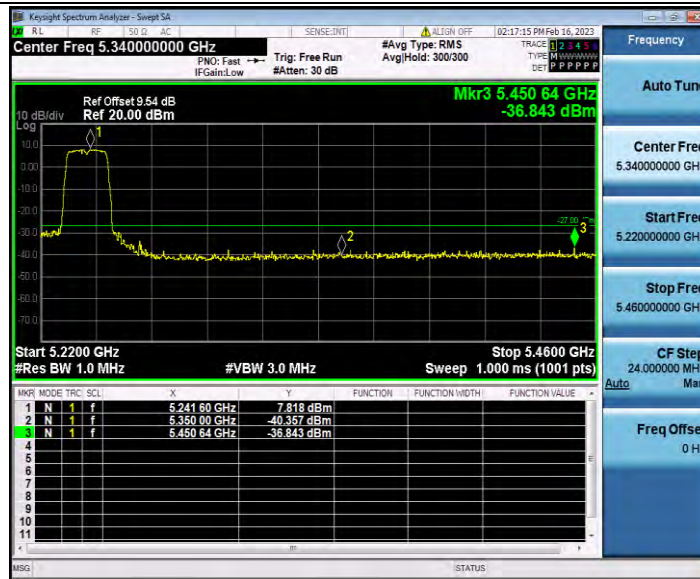
11N40SISO_Ant0_High_5230



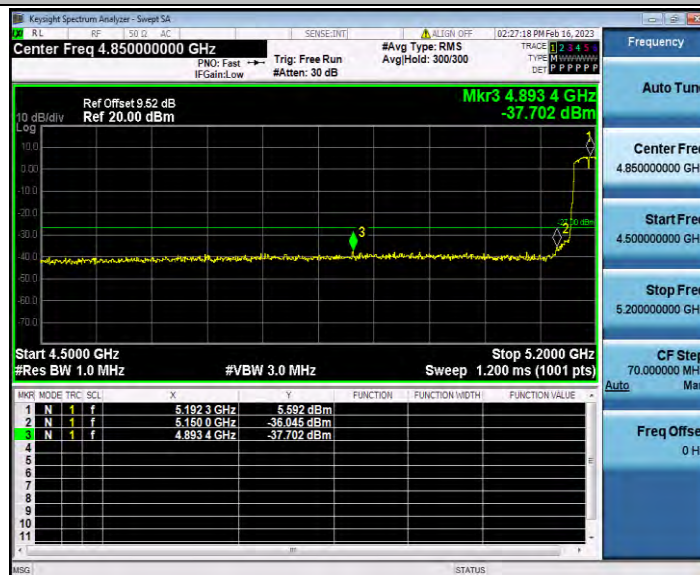
11AC20SISO_Ant0_Low_5180



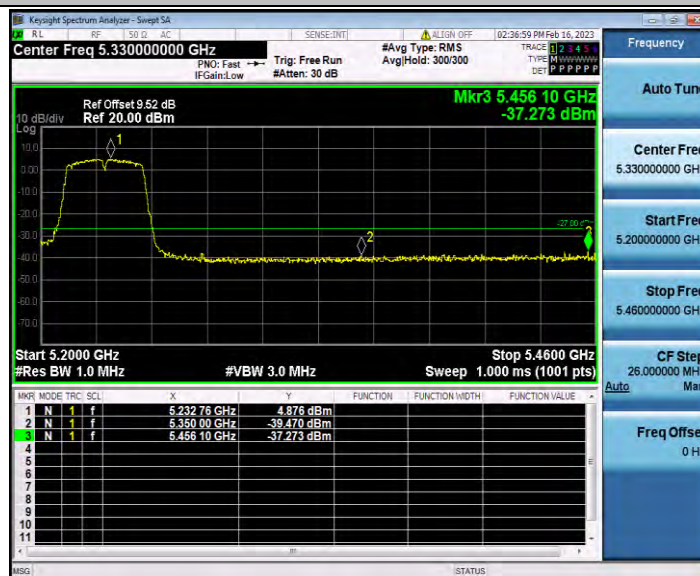
11AC20SISO_Ant0_High_5240



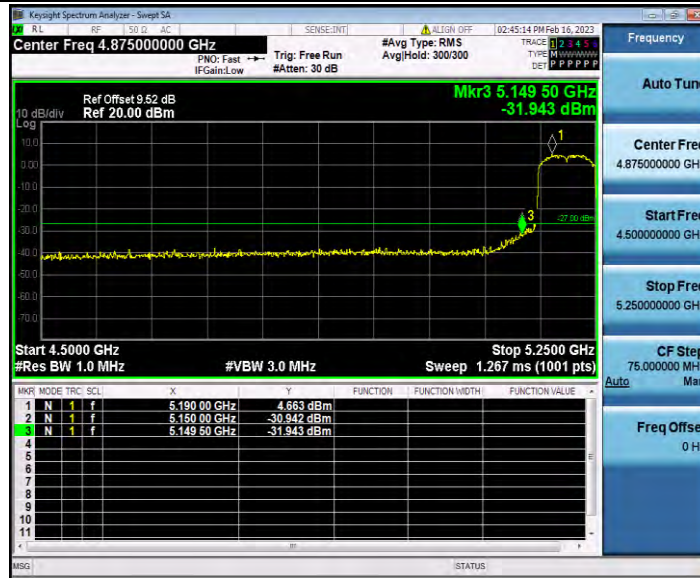
11AC40SISO_Ant0_Low_5190



11AC40SISO_Ant0_High_5230



11AC80SISO_Ant0_Low_5210



11AC80SISO_Ant0_High_5210



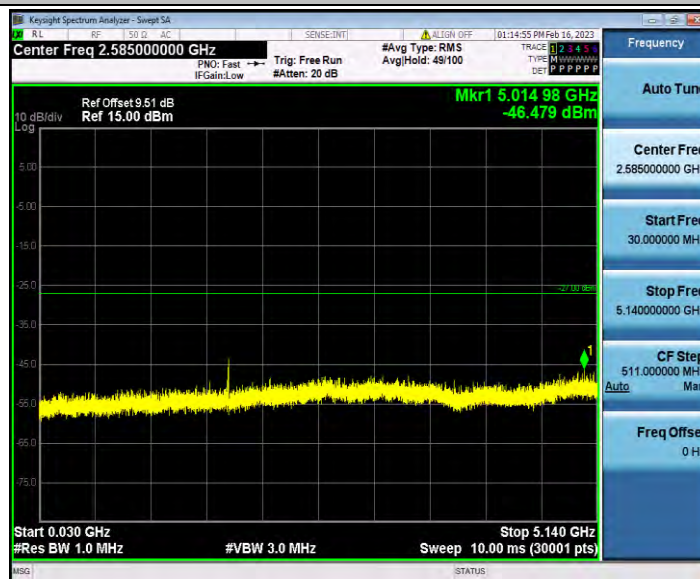
Appendix D.7: Conducted Spurious Emission

Test Result

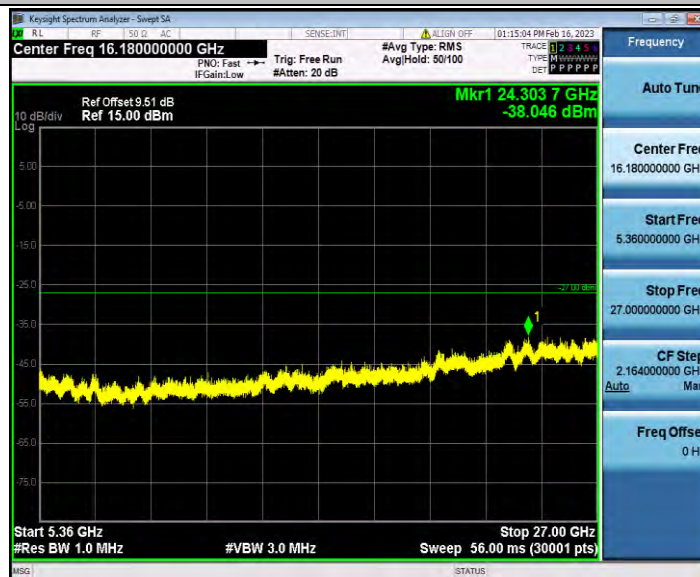
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant0	5180	30~5140	5014.98	-46.48	≤-27	PASS
			5360~40000	24303.66	-38.05	≤-27	PASS
		5200	30~5140	5089.24	-47.6	≤-27	PASS
			5360~40000	24208.44	-38.12	≤-27	PASS
		5240	30~5140	2566.43	-46.78	≤-27	PASS
			5360~40000	23523.17	-37.87	≤-27	PASS
11N20SISO	Ant0	5180	30~5140	4906.47	-46.45	≤-27	PASS
			5360~40000	26963.93	-38.01	≤-27	PASS
		5200	30~5140	5047.34	-46.54	≤-27	PASS
			5360~40000	26031.25	-37.84	≤-27	PASS
		5240	30~5140	5115.47	-46.53	≤-27	PASS
			5360~40000	24231.52	-38.39	≤-27	PASS
11N40SISO	Ant0	5190	30~5140	5138.3	-45.23	≤-27	PASS
			5360~40000	24795.61	-37.97	≤-27	PASS
		5230	30~5140	4133.33	-46.83	≤-27	PASS
			5360~40000	26562.87	-37.97	≤-27	PASS
11AC20SISO	Ant0	5180	30~5140	4969.16	-46.31	≤-27	PASS
			5360~40000	26484.25	-37.56	≤-27	PASS
		5200	30~5140	5077.83	-47.2	≤-27	PASS
			5360~40000	26982.69	-37.28	≤-27	PASS
		5240	30~5140	5074.59	-46.39	≤-27	PASS
			5360~40000	25617.2	-37.41	≤-27	PASS
11AC40SISO	Ant0	5190	30~5140	1736.57	-42.59	≤-27	PASS
			5360~40000	26033.41	-38.14	≤-27	PASS
		5230	30~5140	3010.15	-46.4	≤-27	PASS
			5360~40000	26801.63	-37.89	≤-27	PASS
11AC80SISO	Ant0	5210	30~5140	5140	-36.33	≤-27	PASS
			5360~40000	23557.8	-37.82	≤-27	PASS

Test Graphs

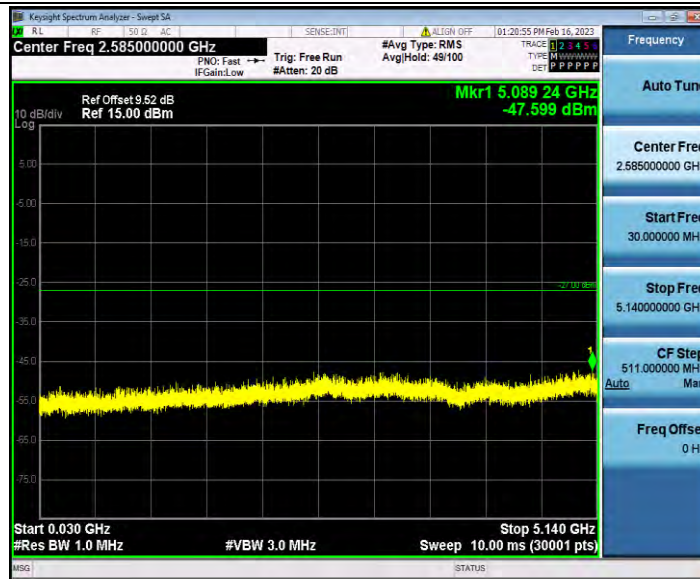
11A_Ant0_5180_30~5140



11A_Ant0_5180_5360~40000



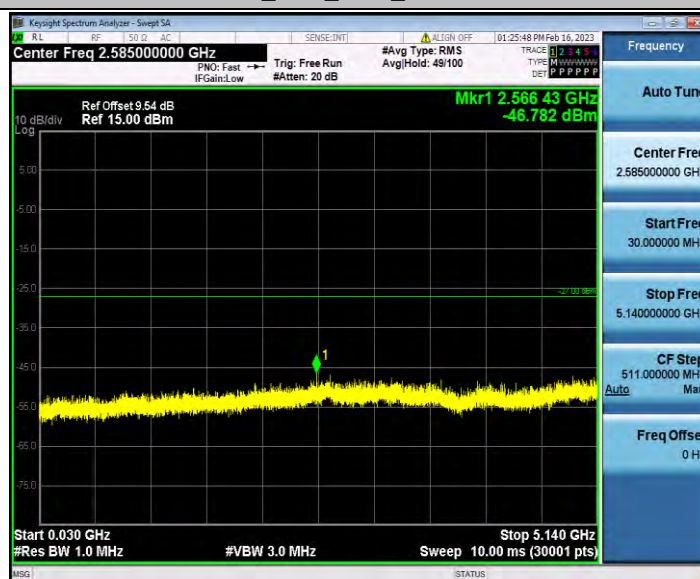
11A_Ant0_5200_30~5140



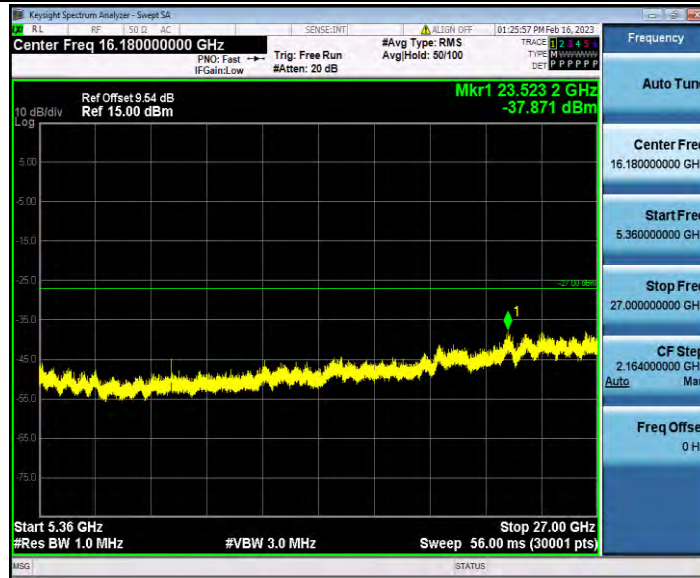
11A_Ant0_5200_5360~40000



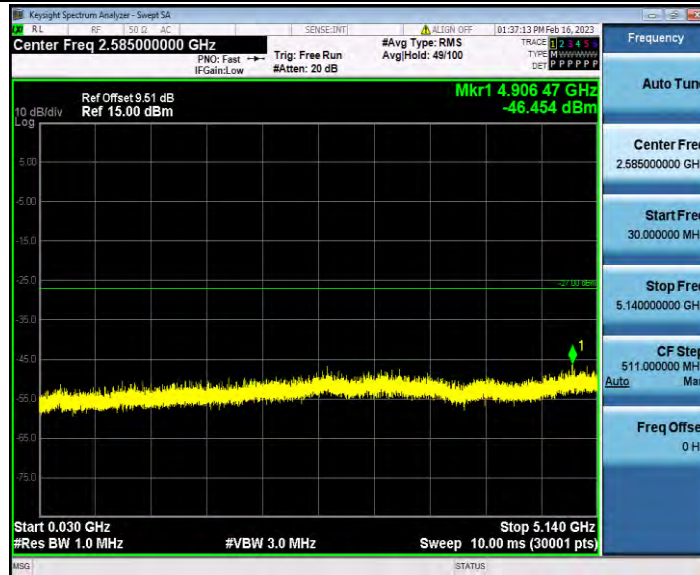
11A_Ant0_5240_30~5140



11A_Ant0_5240_5360~40000



11N20SISO_Ant0_5180_30~5140



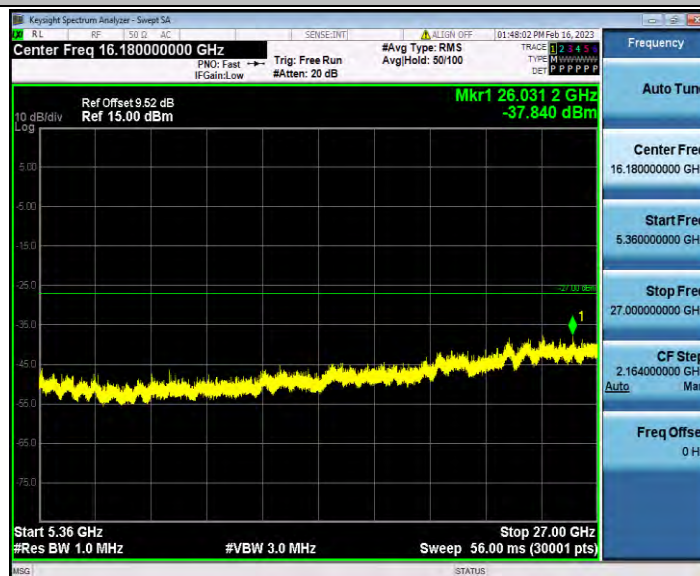
11N20SISO_Ant0_5180_5360~40000



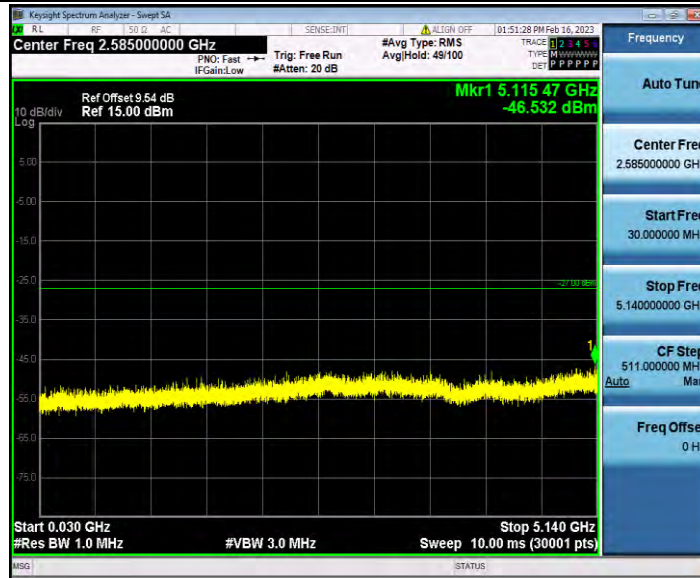
11N20SISO_Ant0_5200_30~5140



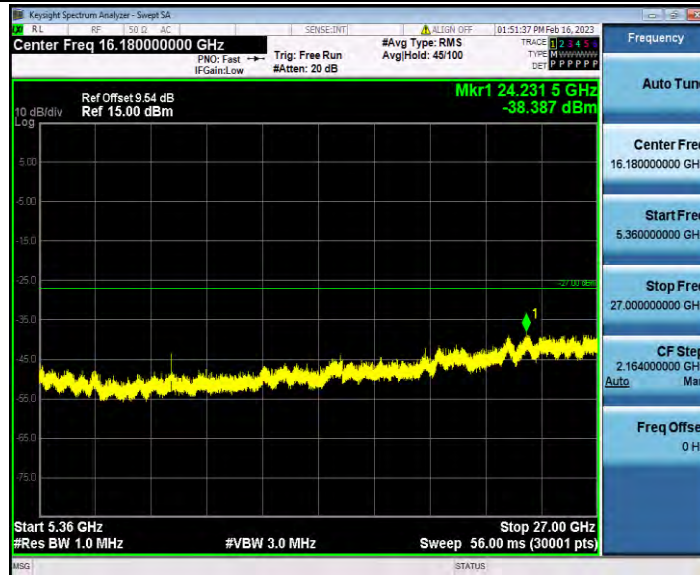
11N20SISO_Ant0_5200_5360~40000



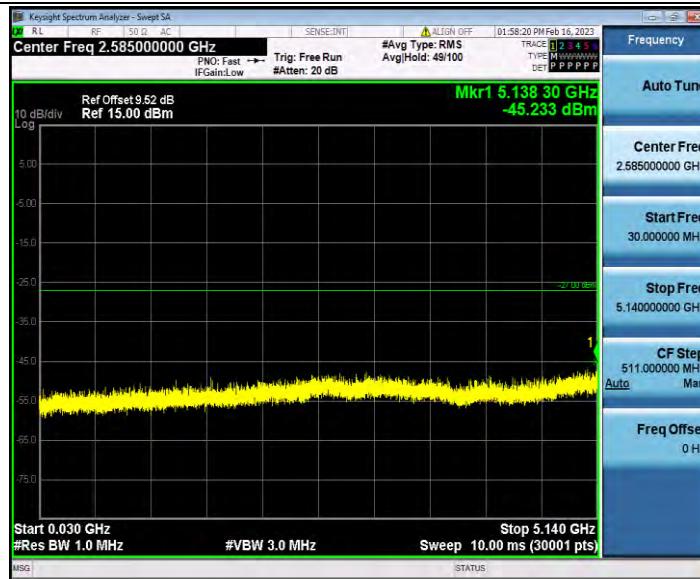
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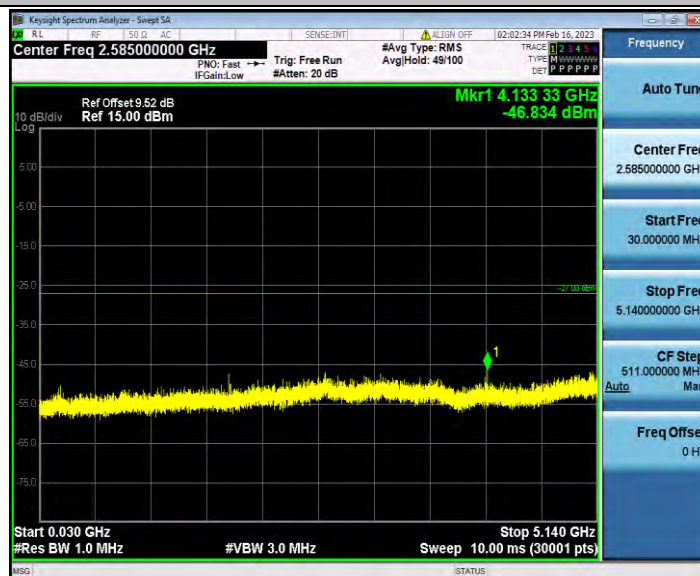
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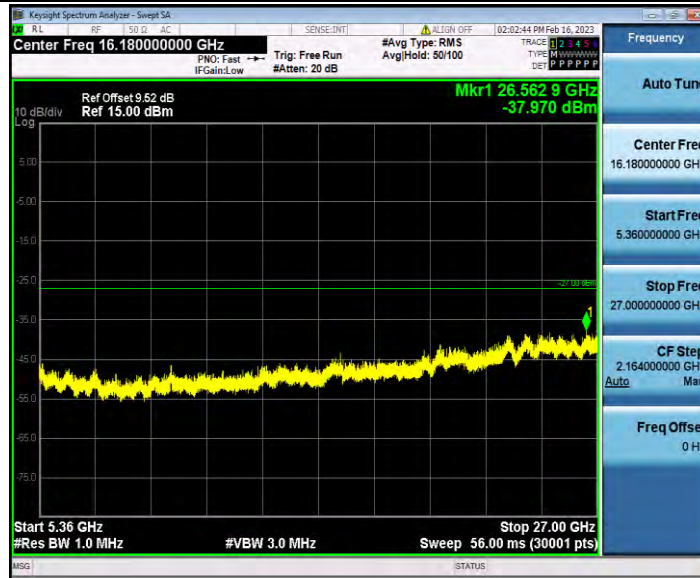
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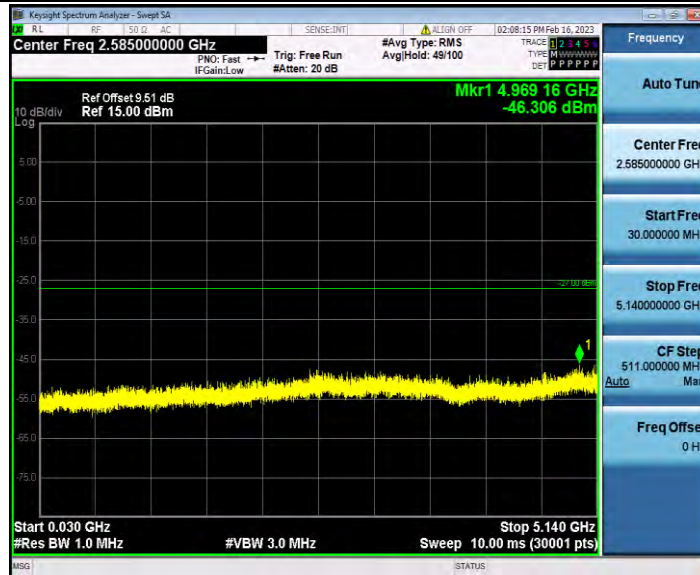
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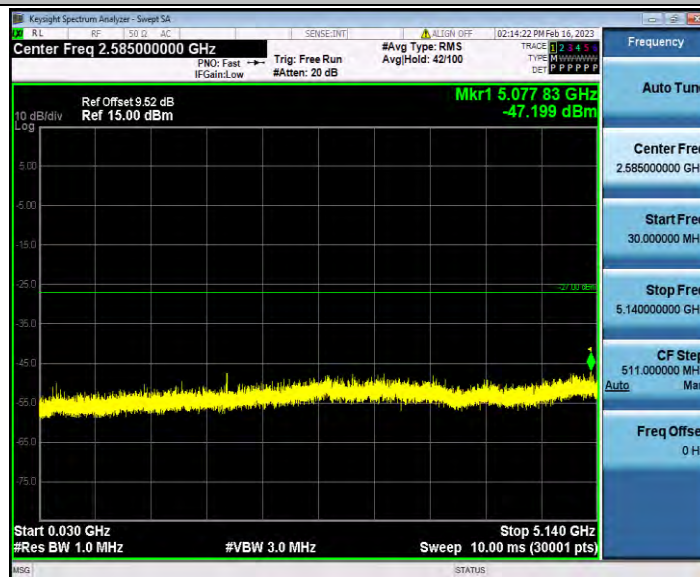
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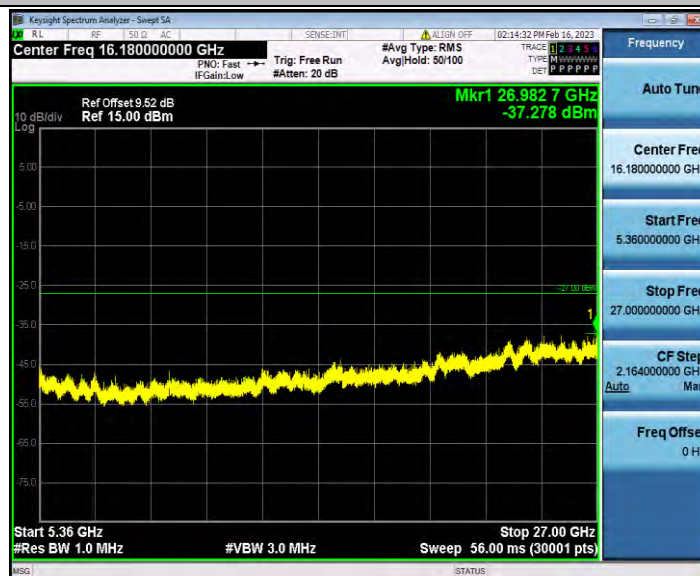
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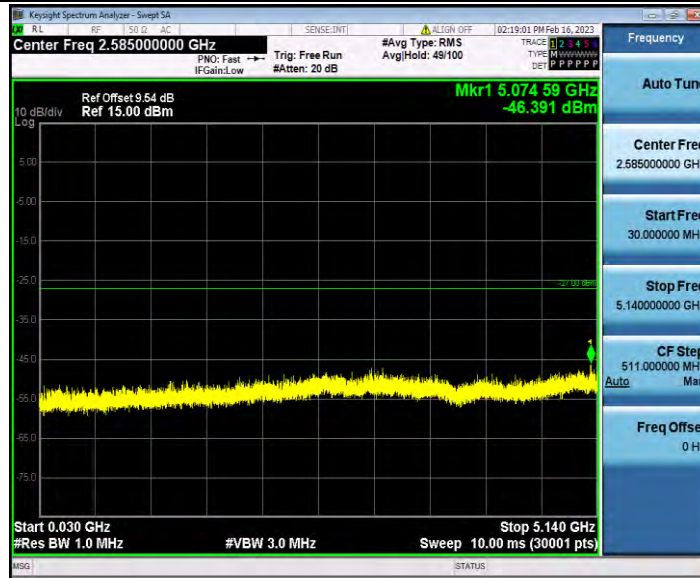
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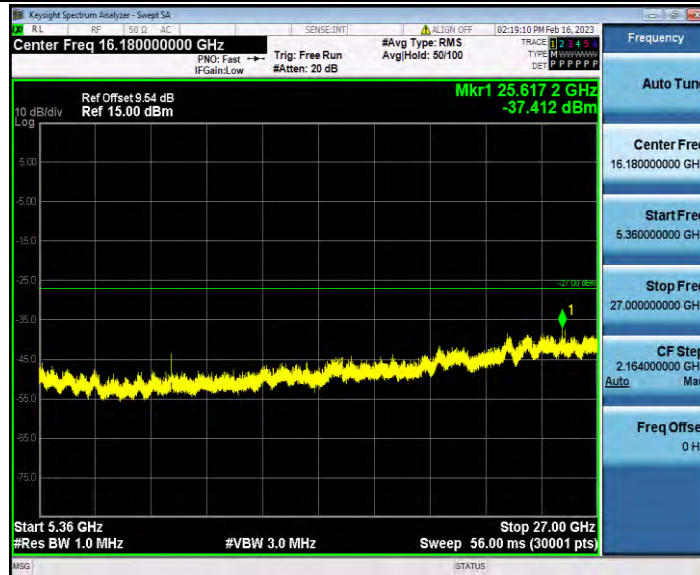
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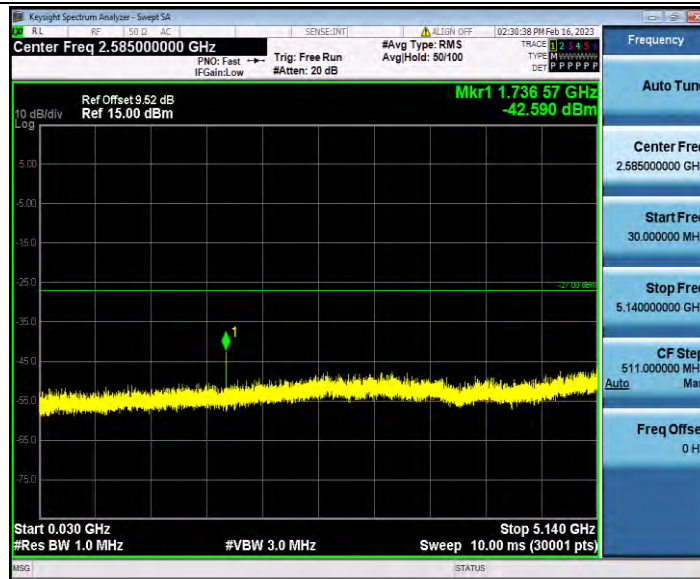
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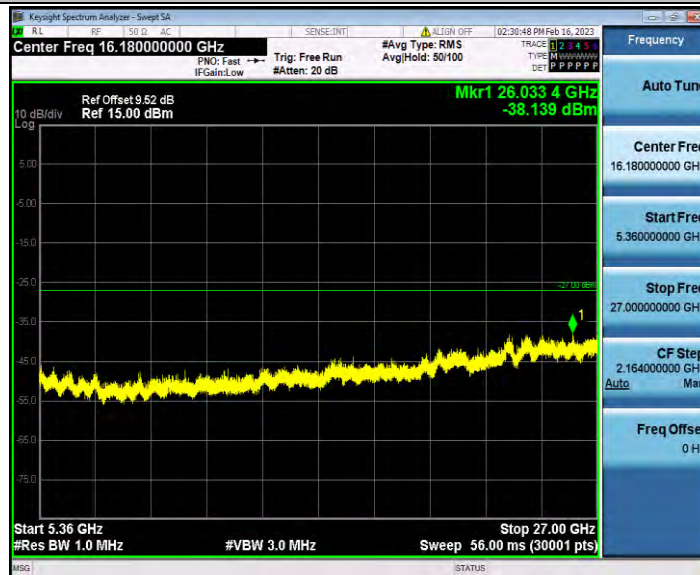
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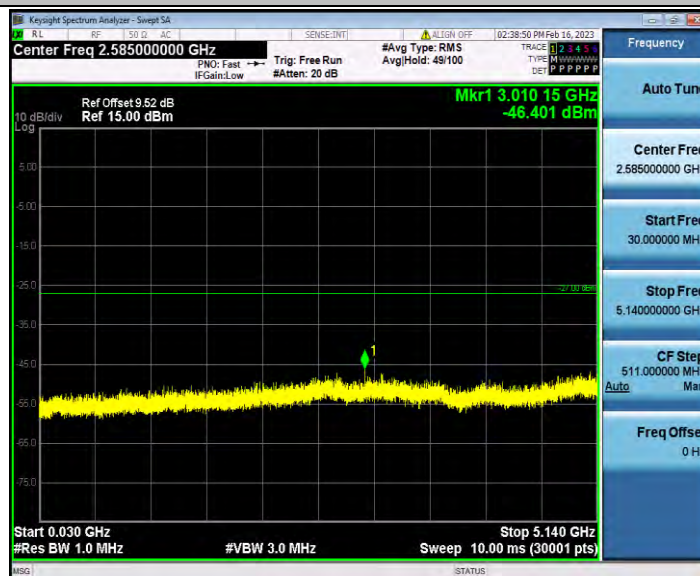
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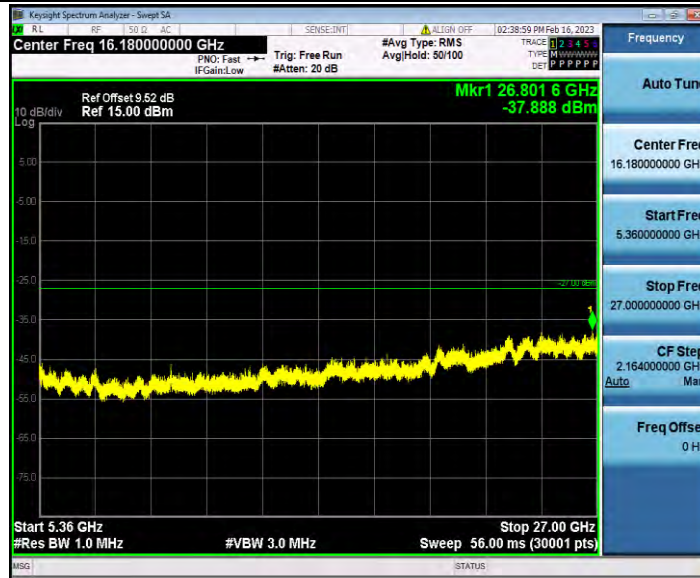
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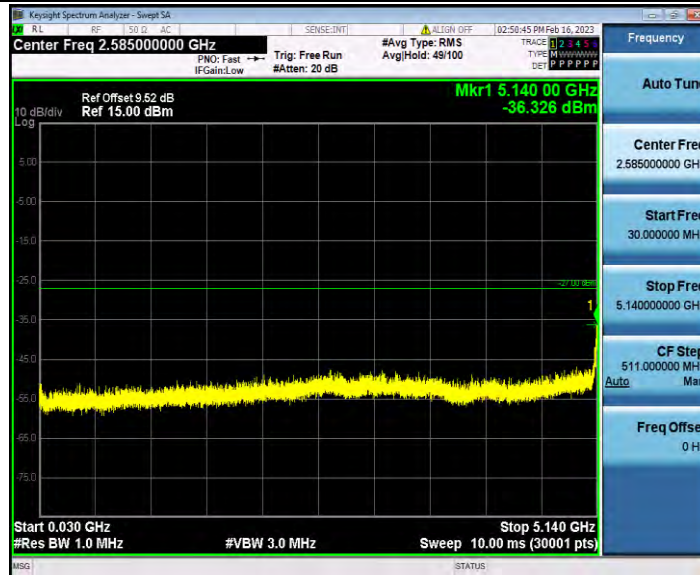
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11AC40SISO_Ant0_5230_5360~40000



11AC80SISO_Ant0_5210_5360~40000



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