

Case No. : GTS20230105004-1-4	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2023.2.3	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	Ant2	5180	22.920	5168.720	5191.640	---	---
		5200	23.040	5188.720	5211.760	---	---
		5240	25.720	5227.680	5253.400	---	---
11N20SISO	Ant2	5180	23.800	5168.280	5192.080	---	---
		5200	23.920	5188.320	5212.240	---	---
		5240	24.560	5228.520	5253.080	---	---
11N40SISO	Ant2	5190	42.320	5168.880	5211.200	---	---
		5230	41.920	5208.960	5250.880	---	---
11AC20SISO	Ant2	5180	22.680	5168.680	5191.360	---	---
		5200	22.440	5188.600	5211.040	---	---
		5240	23.320	5228.240	5251.560	---	---
11AC40SISO	Ant2	5190	42.960	5168.240	5211.200	---	---
		5230	43.760	5208.720	5252.480	---	---
11AC80SISO	Ant2	5210	82.240	5169.200	5251.440	---	---

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



11AC80SISO_Ant2_5210



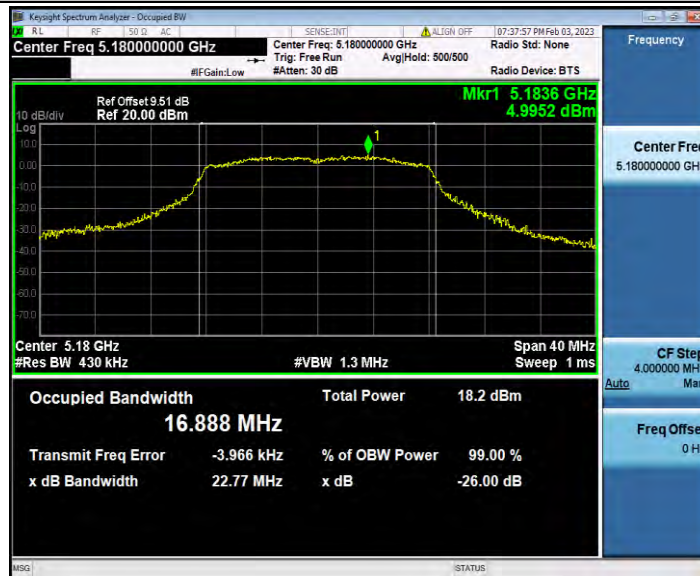
Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	16.888	5171.552	5188.440	---	---
		5200	16.962	5191.541	5208.503	---	---
		5240	17.225	5231.440	5248.665	---	---
11N20SISO	Ant2	5180	18.096	5170.960	5189.056	---	---
		5200	18.084	5190.991	5209.075	---	---
		5240	18.177	5230.923	5249.100	---	---
11N40SISO	Ant2	5190	36.271	5171.932	5208.203	---	---
		5230	36.327	5211.802	5248.129	---	---
11AC20SISO	Ant2	5180	18.025	5170.971	5188.996	---	---
		5200	18.020	5190.969	5208.989	---	---
		5240	18.029	5230.993	5249.022	---	---
11AC40SISO	Ant2	5190	36.265	5171.907	5208.172	---	---
		5230	36.278	5211.919	5248.197	---	---
11AC80SISO	Ant2	5210	75.412	5172.393	5247.805	---	---

Test Graphs

11A_Ant2_5180



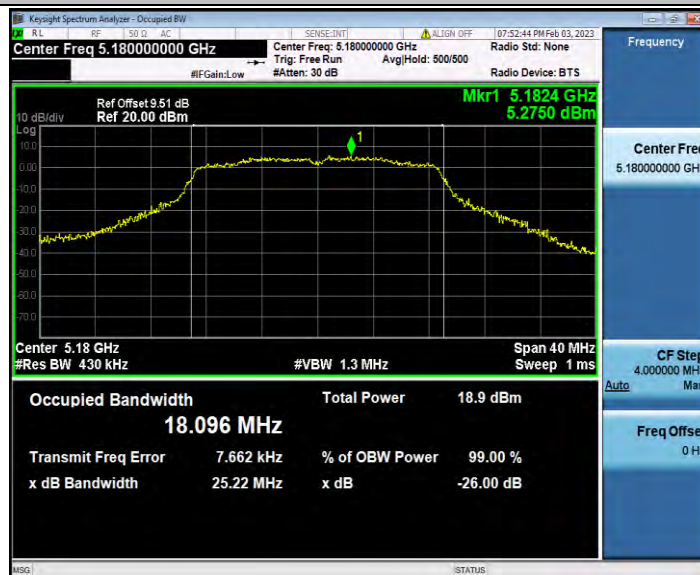
11A_Ant2_5200



11A_Ant2_5240



11N20SISO_Ant2_5180



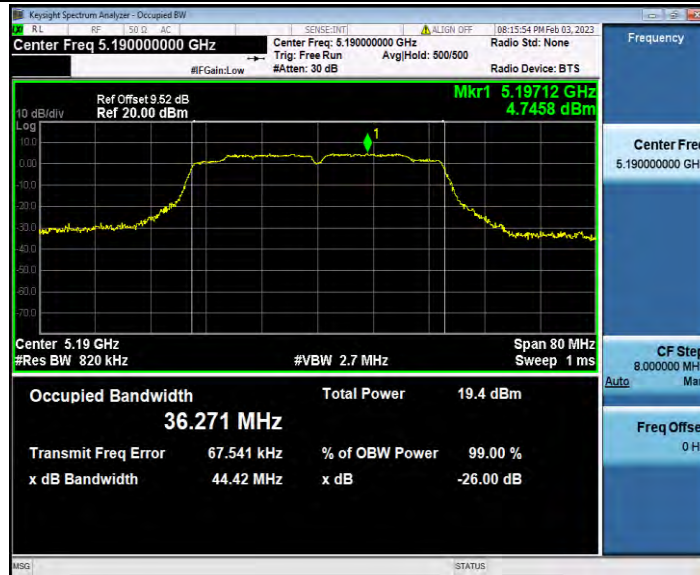
11N20SISO_Ant2_5200



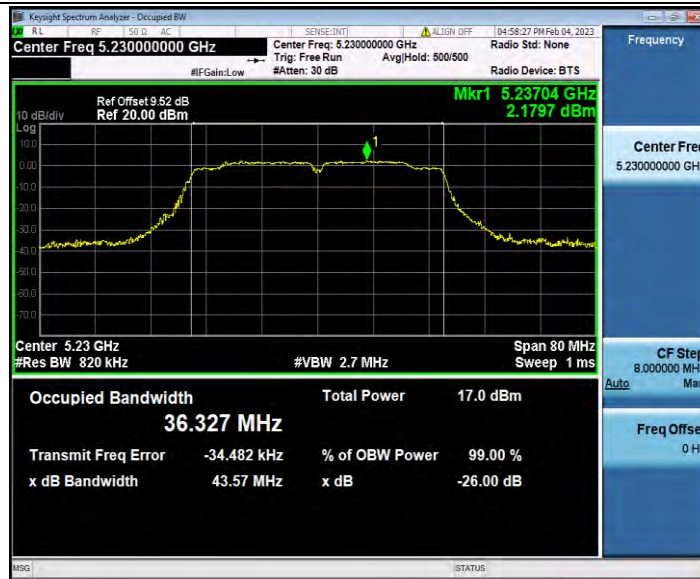
11N20SISO_Ant2_5240



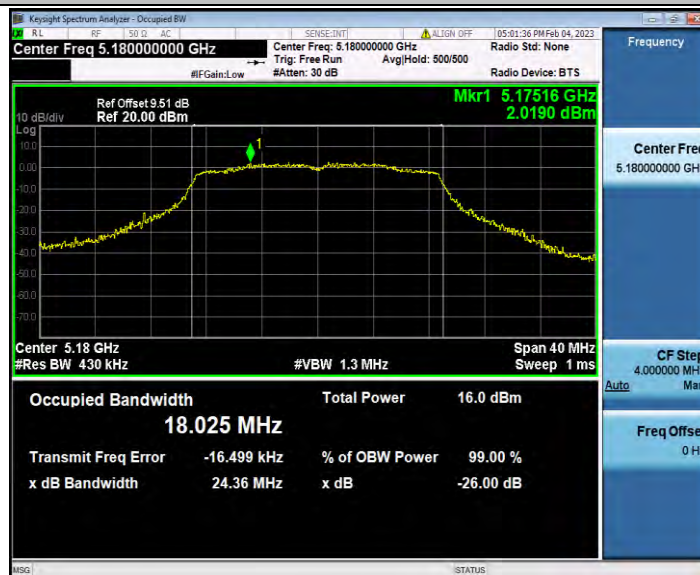
11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



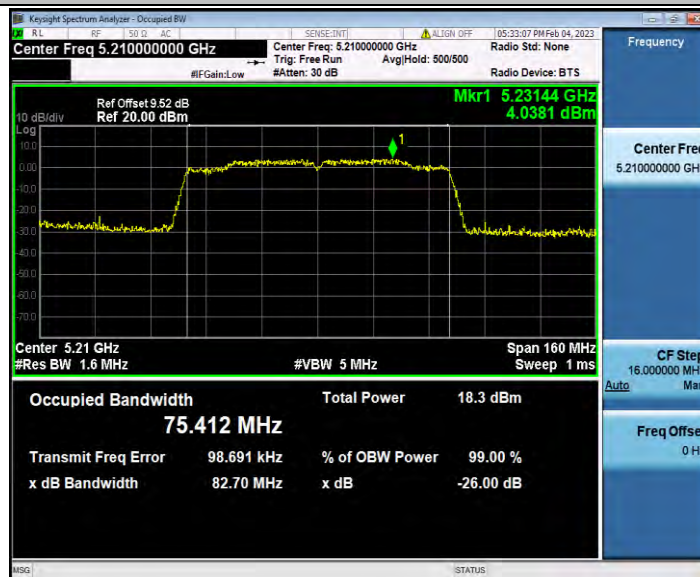
11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210

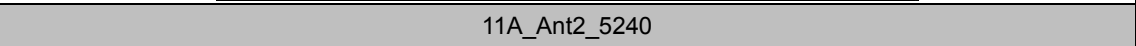
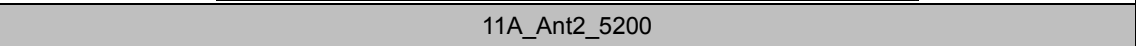


Appendix D.3: Duty Cycle

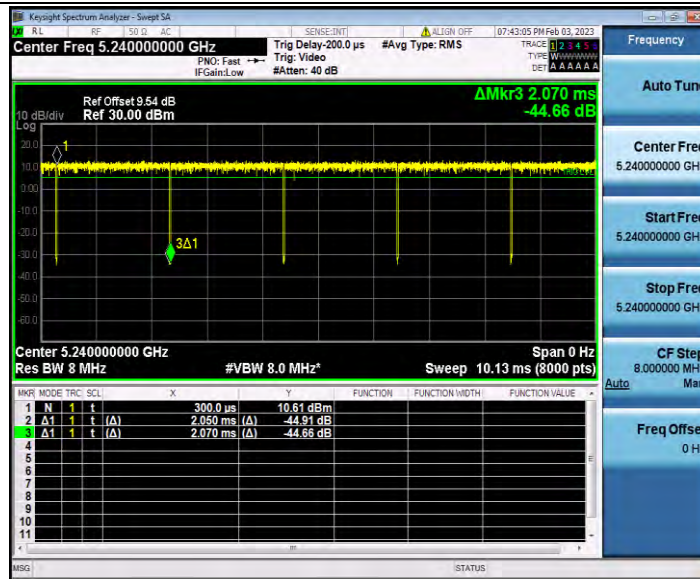
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5180	2.05	2.07	99.03
		5200	2.05	2.07	99.03
		5240	2.05	2.07	99.03
11N20SISO	Ant2	5180	1.91	1.93	98.96
		5200	1.91	1.93	98.96
		5240	1.91	1.94	98.45
11N40SISO	Ant2	5190	0.94	1.11	84.68
		5230	0.94	1.11	84.68
11AC20SISO	Ant2	5180	1.92	2.00	96.00
		5200	1.92	2.00	96.00
		5240	1.91	2.00	95.50
11AC40SISO	Ant2	5190	0.95	1.12	84.82
		5230	0.94	1.11	84.68
11AC80SISO	Ant2	5210	0.46	0.55	83.64

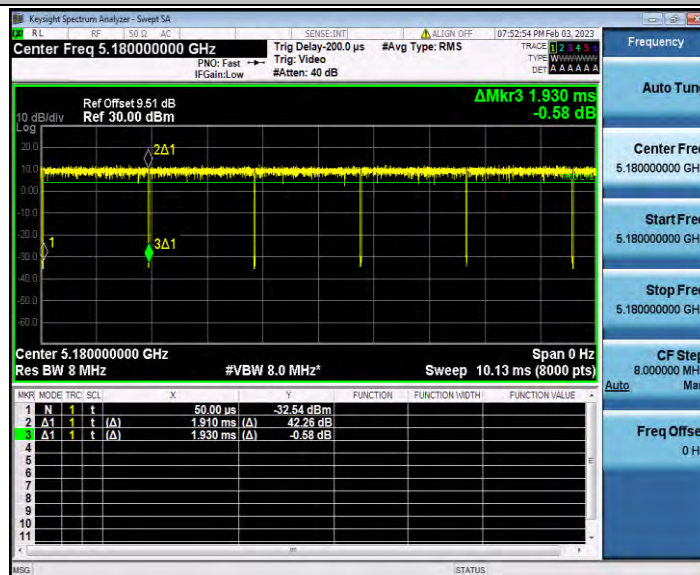
11A_Ant2_5180



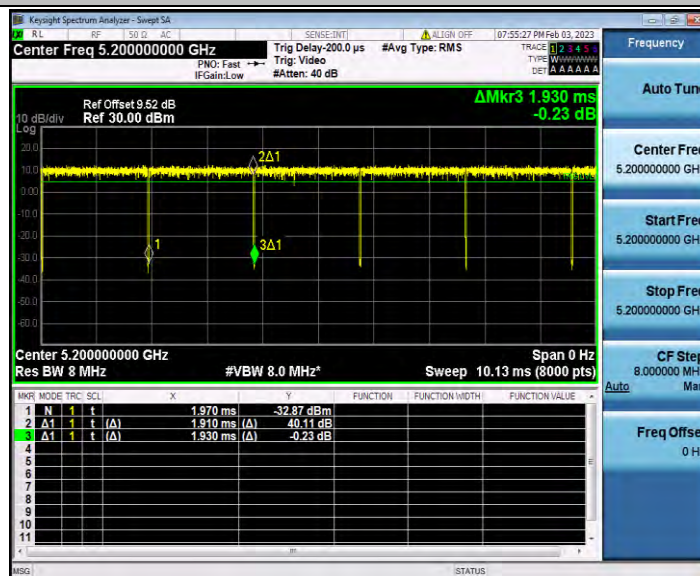
11A_Ant2_5240



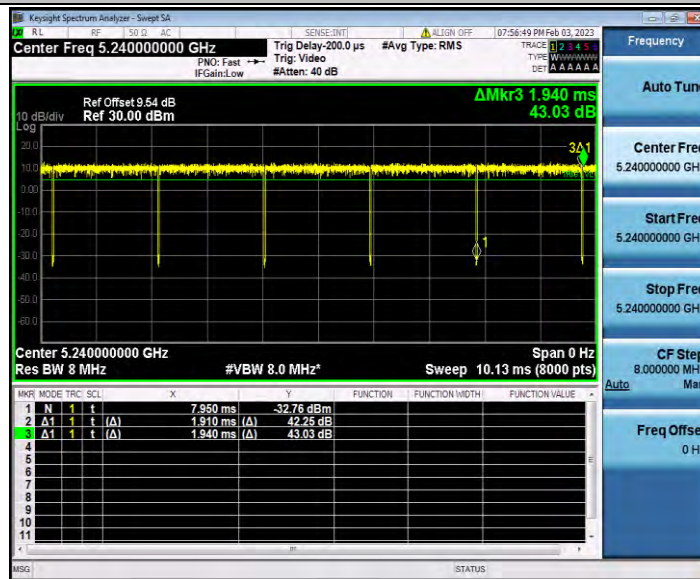
11N20SISO_Ant2_5180



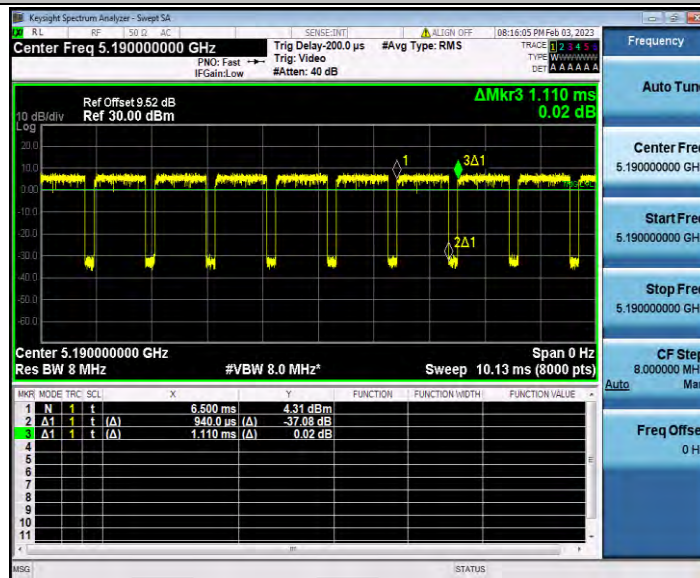
11N20SISO_Ant2_5200



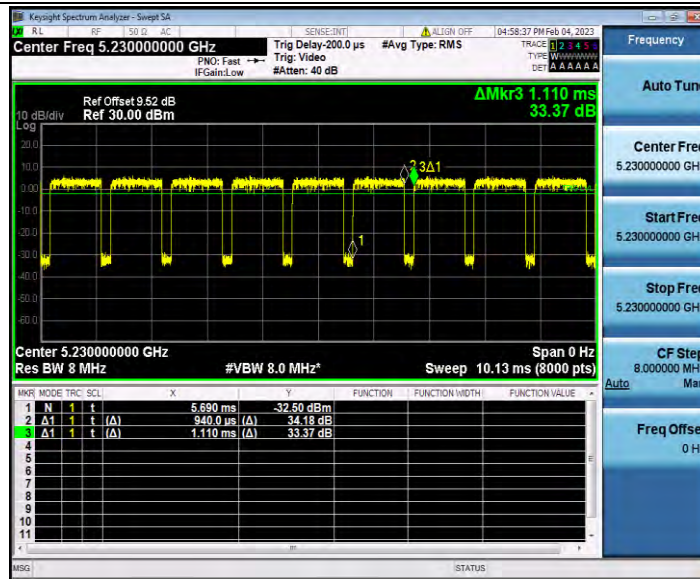
11N20SISO_Ant2_5240



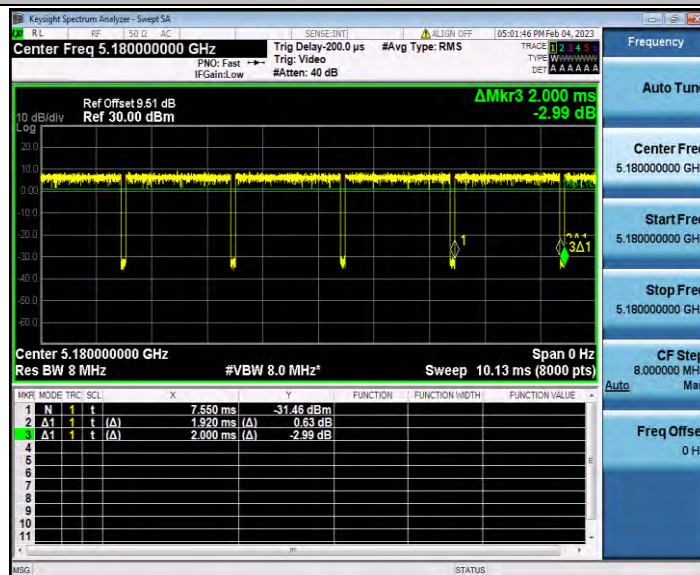
11N40SISO_Ant2_5190



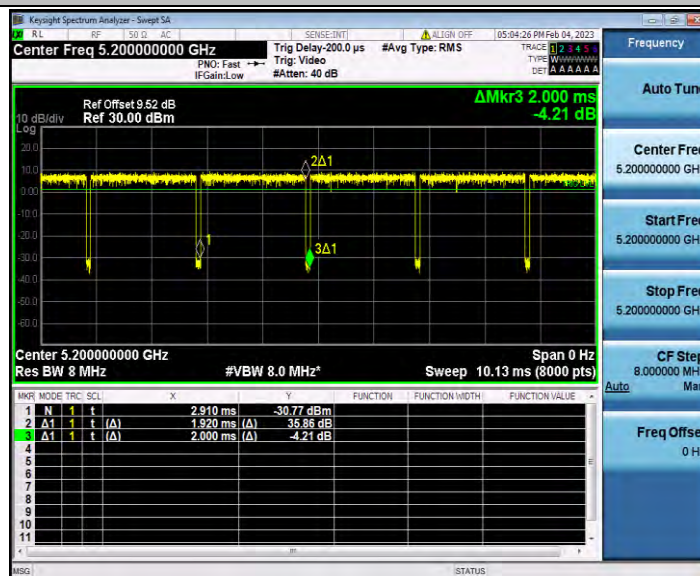
11N40SISO_Ant2_5230



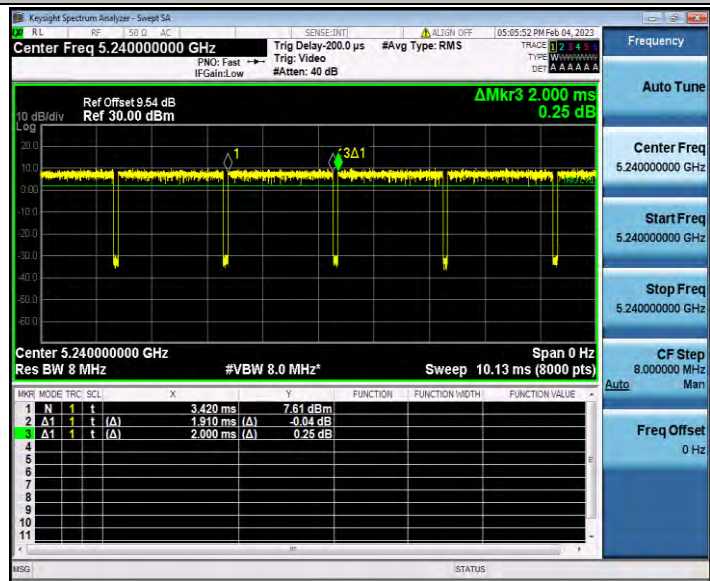
11AC20SISO_Ant2_5180



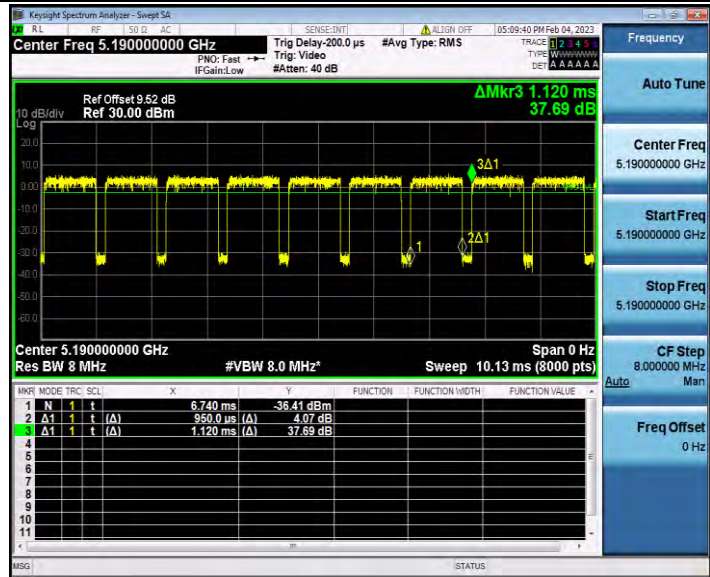
11AC20SISO_Ant2_5200



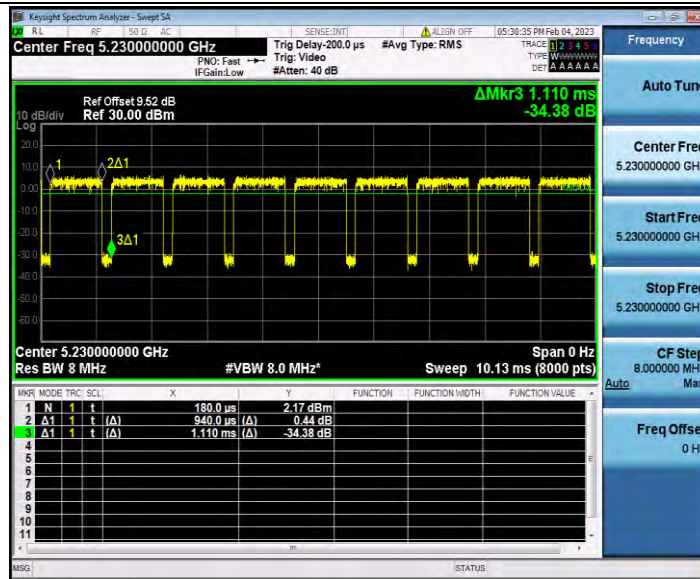
11AC20SISO_Ant2_5240



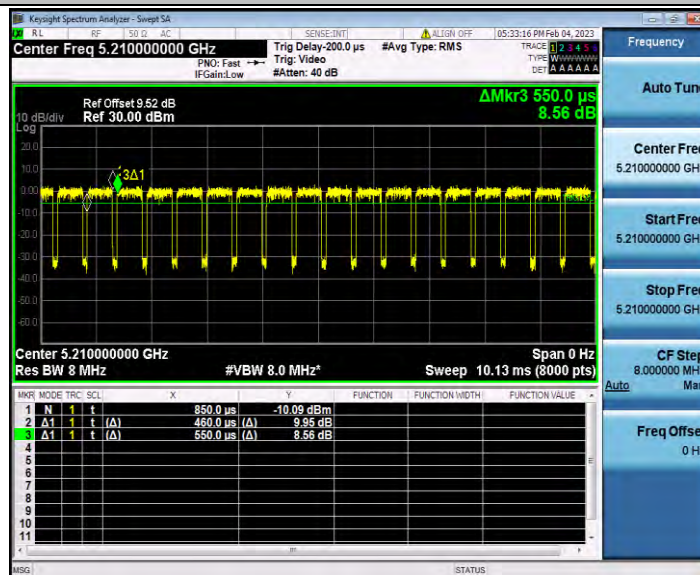
11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[M Hz]	Channel Powert [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	11.10	99.03	0.04	11.14	≤23.98	PASS
		5200	12.77	99.03	0.04	12.81	≤23.98	PASS
		5240	13.22	99.03	0.04	13.26	≤23.98	PASS
11N20SISO	Ant2	5180	12.05	98.96	0.05	12.10	≤23.98	PASS
		5200	12.74	98.96	0.05	12.79	≤23.98	PASS
		5240	12.85	98.45	0.07	12.92	≤23.98	PASS
11N40SISO	Ant2	5190	11.35	84.68	0.72	12.07	≤23.98	PASS
		5230	8.80	84.68	0.72	9.52	≤23.98	PASS
11AC20SISO	Ant2	5180	9.04	96.00	0.18	9.22	≤23.98	PASS
		5200	9.28	96.00	0.18	9.46	≤23.98	PASS
		5240	9.82	95.50	0.20	10.02	≤23.98	PASS
11AC40SISO	Ant2	5190	8.59	84.82	0.72	9.31	≤23.98	PASS
		5230	9.16	84.68	0.72	9.88	≤23.98	PASS
11AC80SISO	Ant2	5210	8.98	83.64	0.78	9.76	≤23.98	PASS

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

Appendix D.5: Maximum power spectral density

Test Result

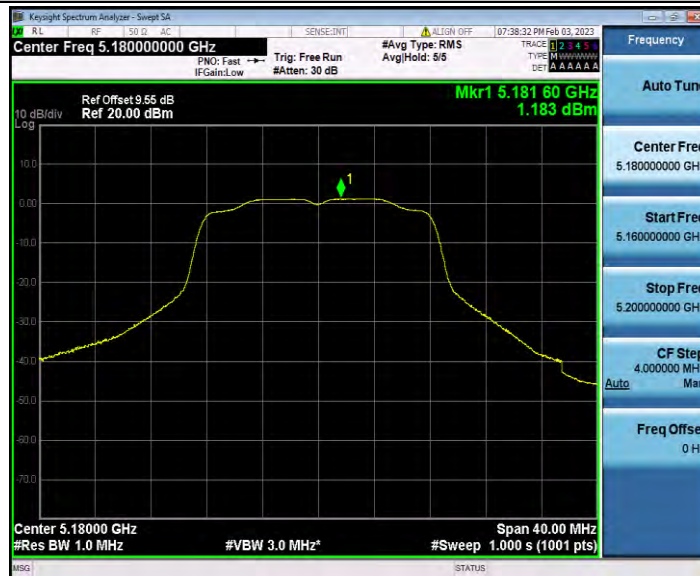
TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5180	1.18	≤11.00	PASS
		5200	1.9	≤11.00	PASS
		5240	2.25	≤11.00	PASS
11N20SISO	Ant2	5180	0.91	≤11.00	PASS
		5200	1.56	≤11.00	PASS
		5240	1.67	≤11.00	PASS
11N40SISO	Ant2	5190	-1.82	≤11.00	PASS
		5230	-4.39	≤11.00	PASS
11AC20SISO	Ant2	5180	-1.94	≤11.00	PASS
		5200	-1.62	≤11.00	PASS
		5240	-0.92	≤11.00	PASS
11AC40SISO	Ant2	5190	-4.53	≤11.00	PASS
		5230	-4.06	≤11.00	PASS
11AC80SISO	Ant2	5210	-7.07	≤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_Ant2_5180



11A_Ant2_5200



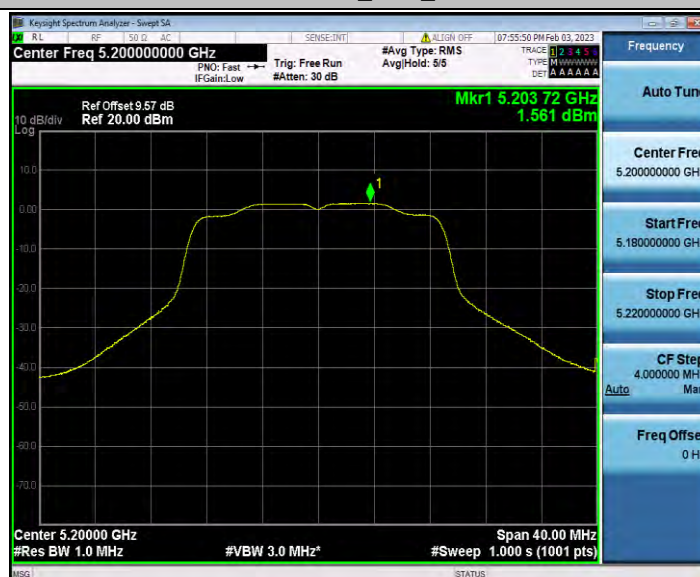
11A_Ant2_5240



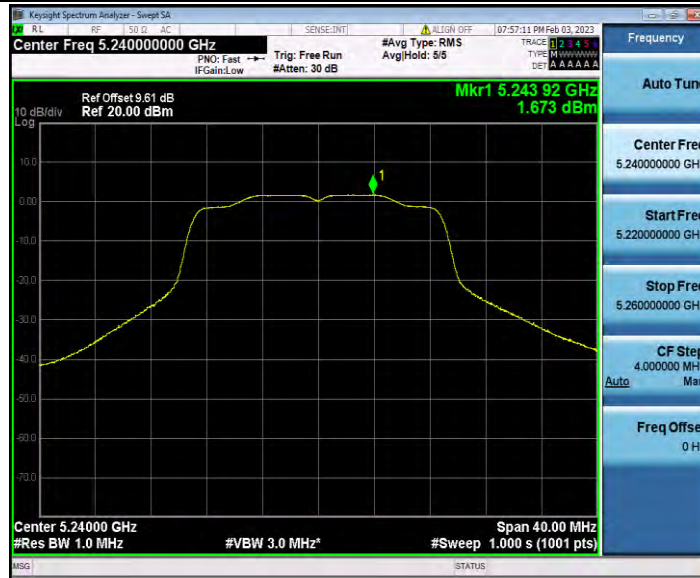
11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



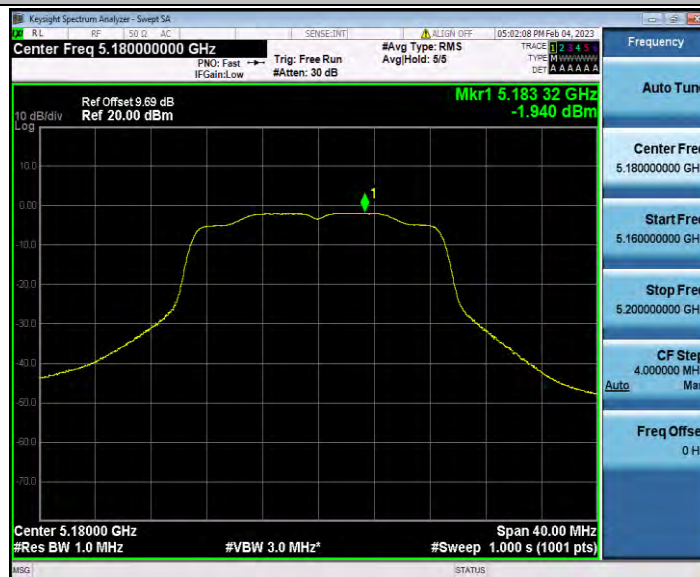
11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210



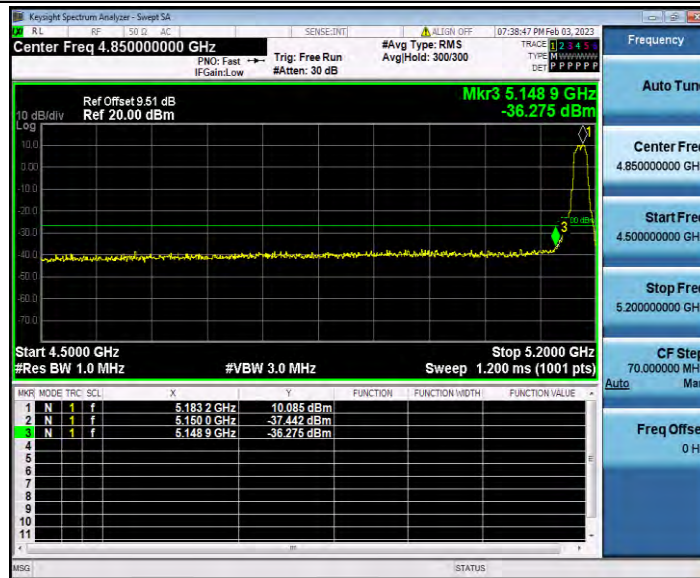
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5180	-36.28	≤ -27	PASS
		High	5240	-37.64	≤ -27	PASS
11N20SISO	Ant2	Low	5180	-35.71	≤ -27	PASS
		High	5240	-37.31	≤ -27	PASS
11N40SISO	Ant2	Low	5190	-31.59	≤ -27	PASS
		High	5230	-37.9	≤ -27	PASS
11AC20SISO	Ant2	Low	5180	-37.39	≤ -27	PASS
		High	5240	-37.45	≤ -27	PASS
11AC40SISO	Ant2	Low	5190	-34.44	≤ -27	PASS
		High	5230	-37.99	≤ -27	PASS
11AC80SISO	Ant2	Low	5210	-31.38	≤ -27	PASS
		High	5210	-38.16	≤ -27	PASS

Test Graphs B1

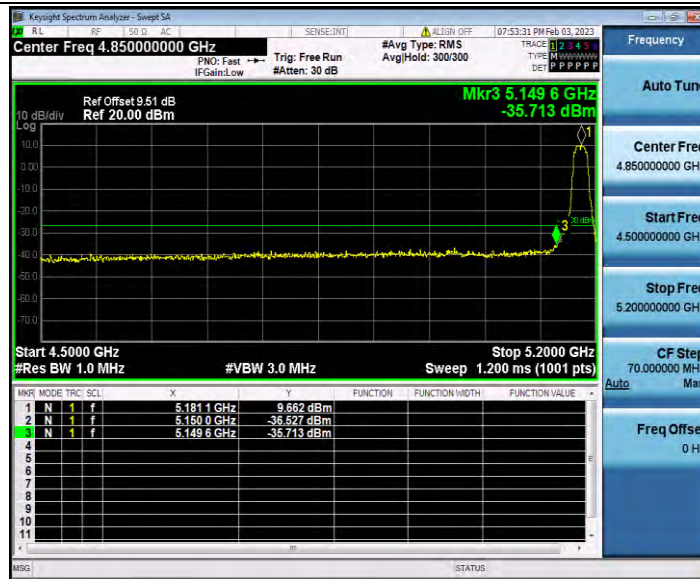
11A_Ant2_Low_5180



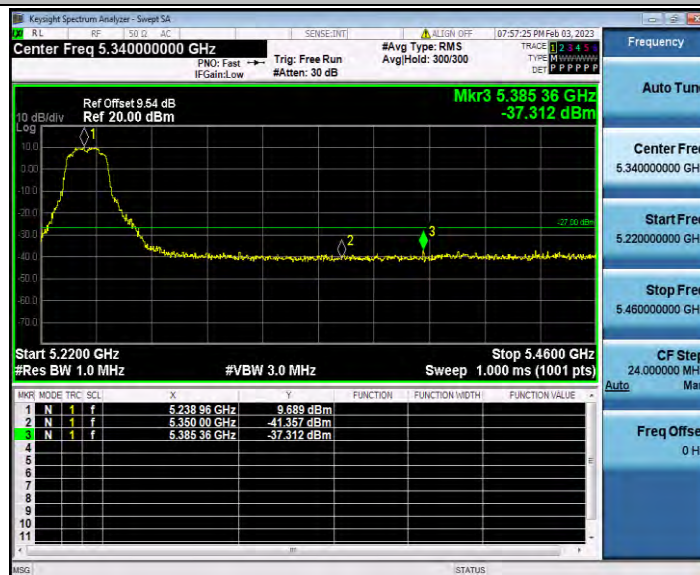
11A_Ant2_High_5240



11N20SISO_Ant2_Low_5180



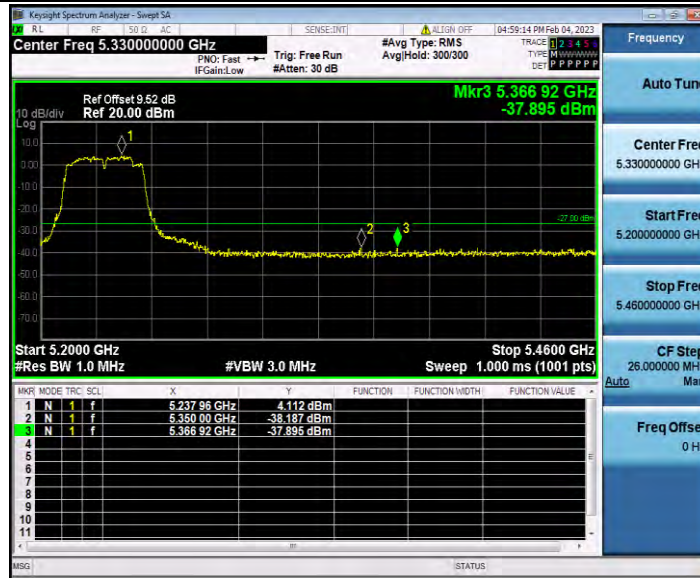
11N20SISO_Ant2_High_5240



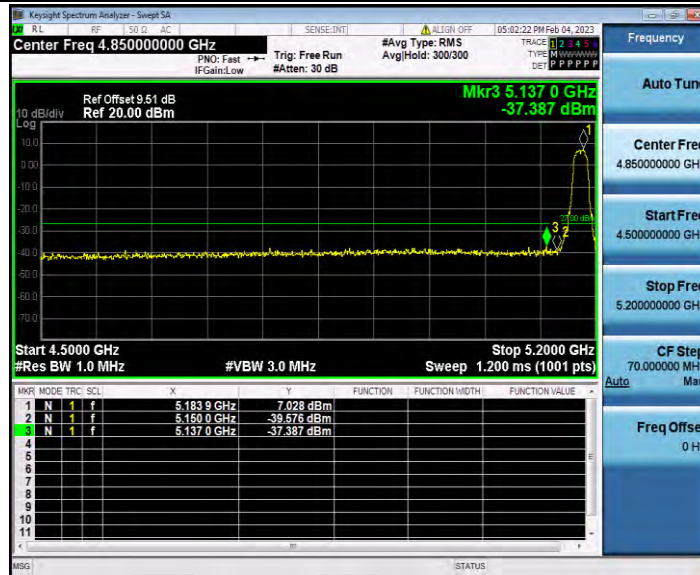
11N40SISO_Ant2_Low_5190



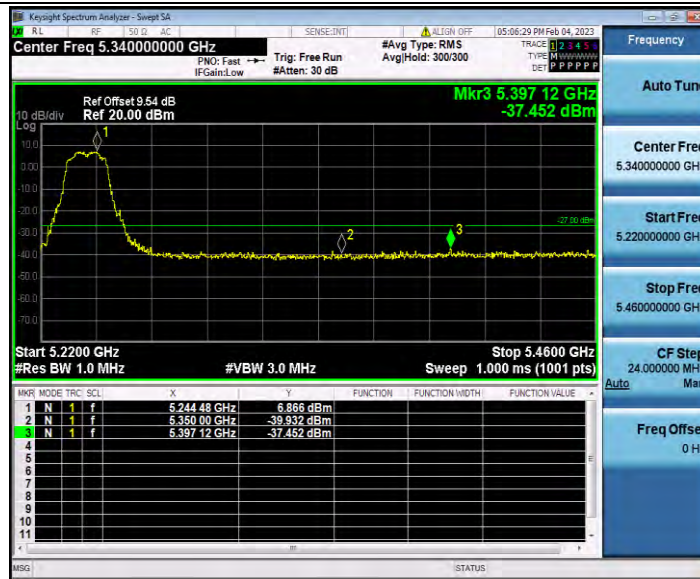
11N40SISO_Ant2_High_5230



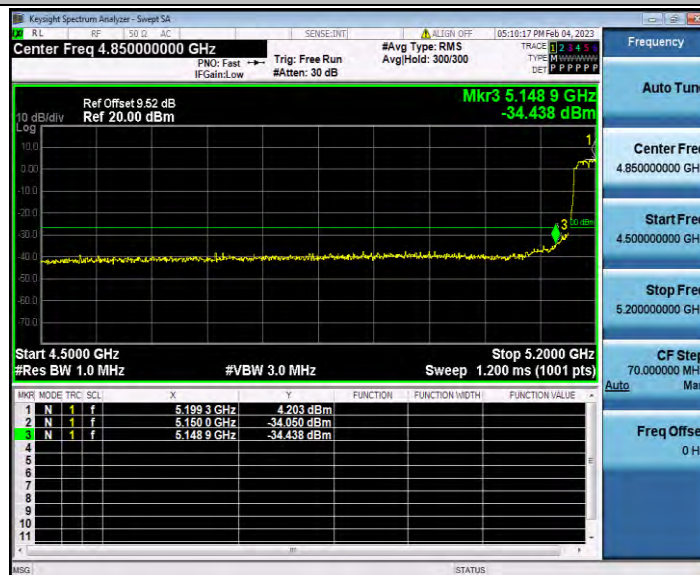
11AC20SISO_Ant2_Low_5180



11AC20SISO_Ant2_High_5240



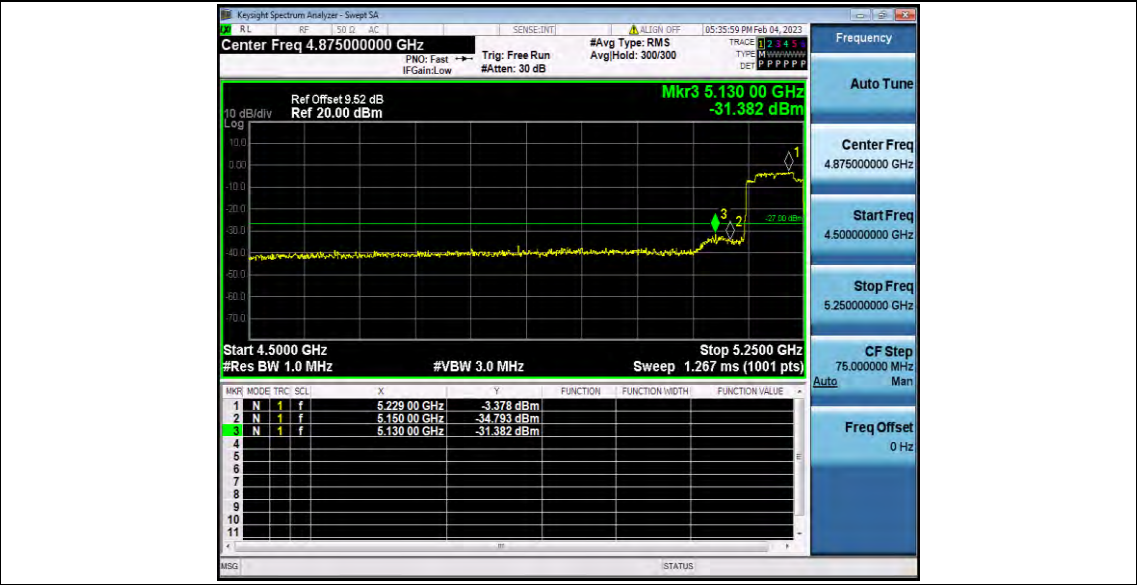
11AC40SISO_Ant2_Low_5190



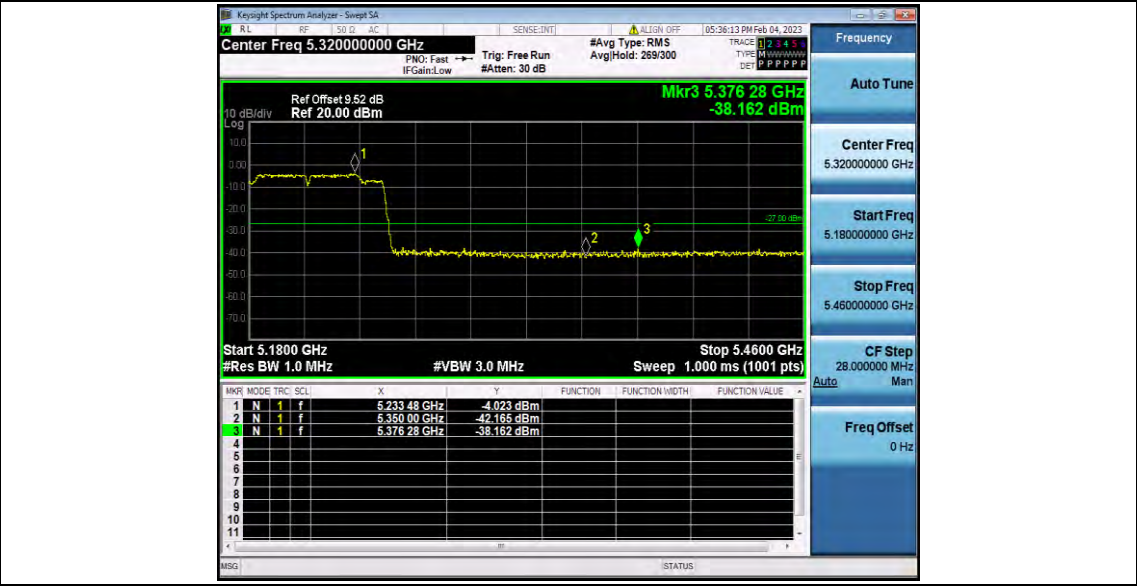
11AC40SISO_Ant2_High_5230



11AC80SISO_Ant2_Low_5210



11AC80SISO_Ant2_High_5210



Appendix D.7: Conducted Spurious Emission

Test Result

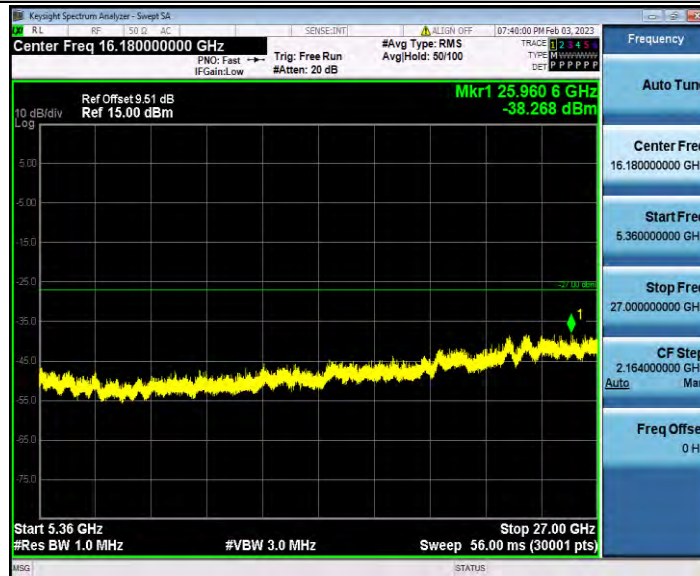
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	30~5140	5139.15	-42.94	≤-27	PASS
			5360~40000	25960.56	-38.27	≤-27	PASS
		5200	30~5140	5139.66	-44.3	≤-27	PASS
			5360~40000	26611.2	-37.76	≤-27	PASS
		5240	30~5140	5083.28	-44.91	≤-27	PASS
			5360~40000	25128.14	-37.61	≤-27	PASS
11N20SISO	Ant2	5180	30~5140	5136.76	-41.57	≤-27	PASS
			5360~40000	24833.84	-37.45	≤-27	PASS
		5200	30~5140	5135.74	-43.55	≤-27	PASS
			5360~40000	24814.36	-37.93	≤-27	PASS
		5240	30~5140	5077.49	-44.68	≤-27	PASS
			5360~40000	26052.17	-37.78	≤-27	PASS
11N40SISO	Ant2	5190	30~5140	5118.2	-34.45	≤-27	PASS
			5360~40000	26052.17	-38.23	≤-27	PASS
		5230	30~5140	5132.68	-45.01	≤-27	PASS
			5360~40000	24273.36	-37.9	≤-27	PASS
11AC20SISO	Ant2	5180	30~5140	5138.64	-44.81	≤-27	PASS
			5360~40000	24778.29	-38.24	≤-27	PASS
		5200	30~5140	5137.45	-45.23	≤-27	PASS
			5360~40000	26588.12	-37.66	≤-27	PASS
		5240	30~5140	5084.13	-46.3	≤-27	PASS
			5360~40000	24116.83	-38.1	≤-27	PASS
11AC40SISO	Ant2	5190	30~5140	5126.37	-39.57	≤-27	PASS
			5360~40000	23570.06	-38.17	≤-27	PASS
		5230	30~5140	4913.46	-46.05	≤-27	PASS
			5360~40000	25630.19	-37.48	≤-27	PASS
11AC80SISO	Ant2	5210	30~5140	5140	-33.85	≤-27	PASS
			5360~40000	26031.97	-38.52	≤-27	PASS

Test Graphs

11A_Ant2_5180_30~5140



11A_Ant2_5180_5360~40000



11A_Ant2_5200_30~5140



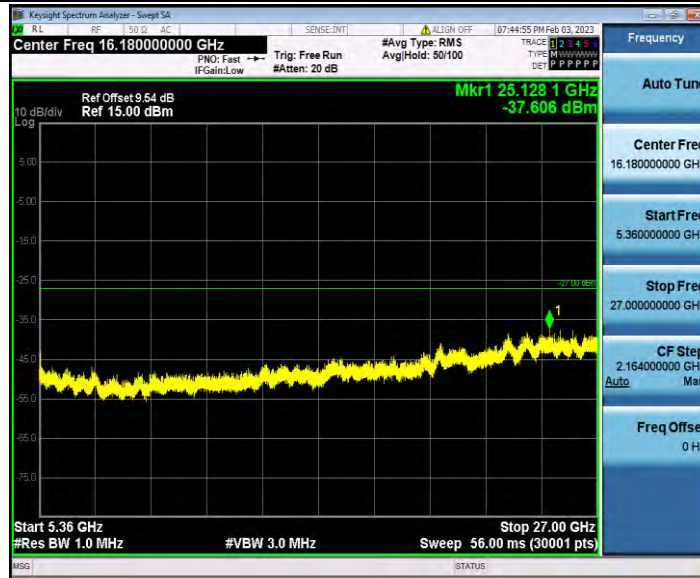
11A_Ant2_5200_5360~40000



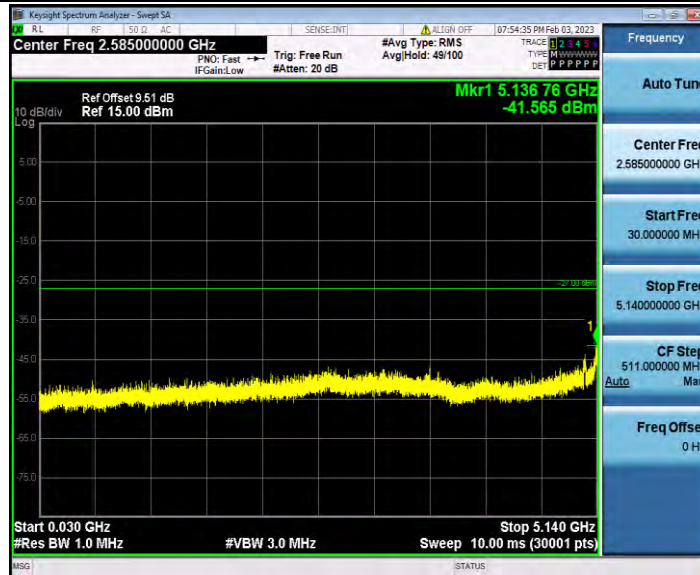
11A_Ant2_5240_30~5140



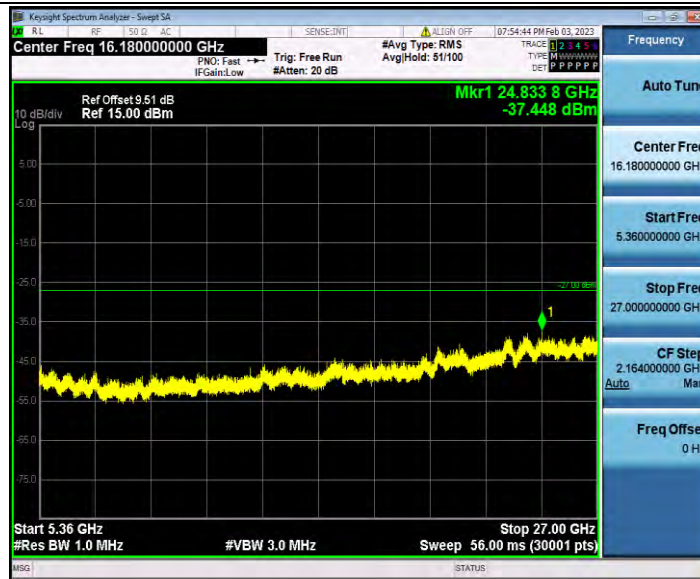
11A_Ant2_5240_5360~40000



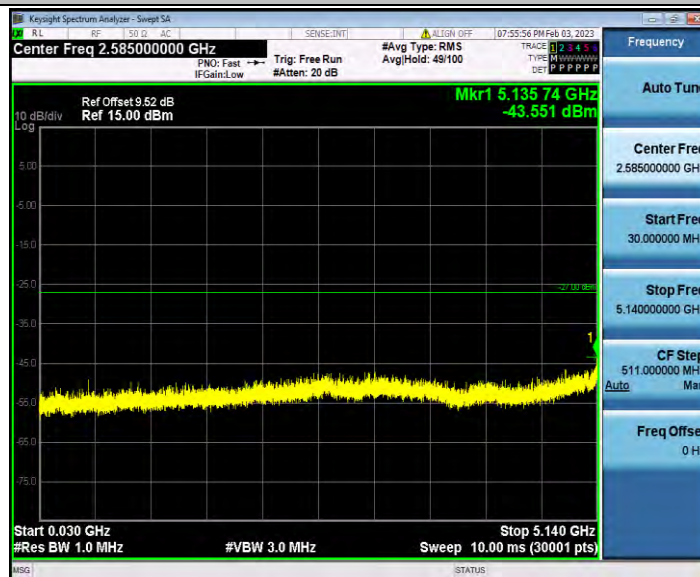
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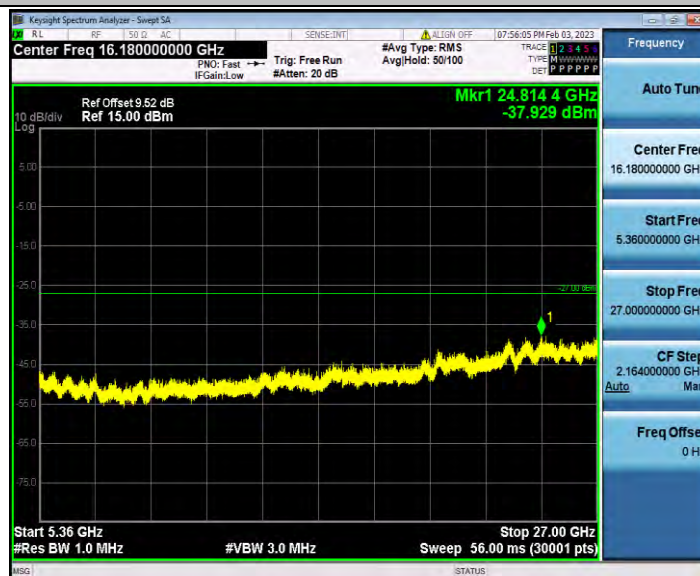
11N20SISO_Ant2_5180_5360~40000



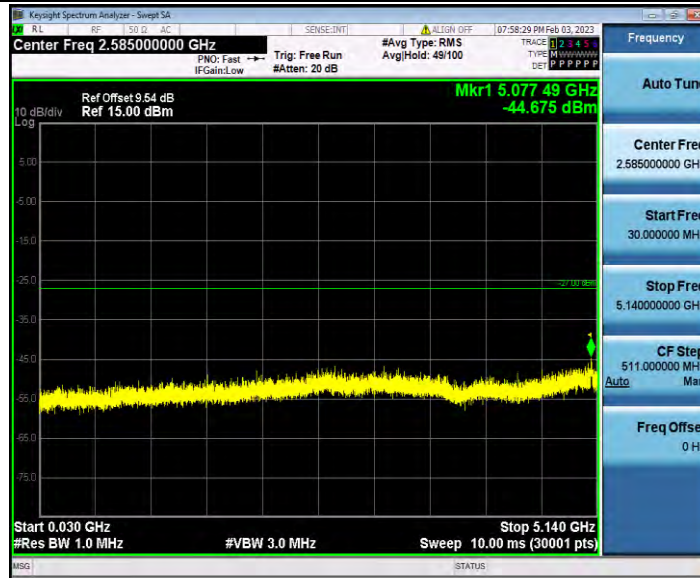
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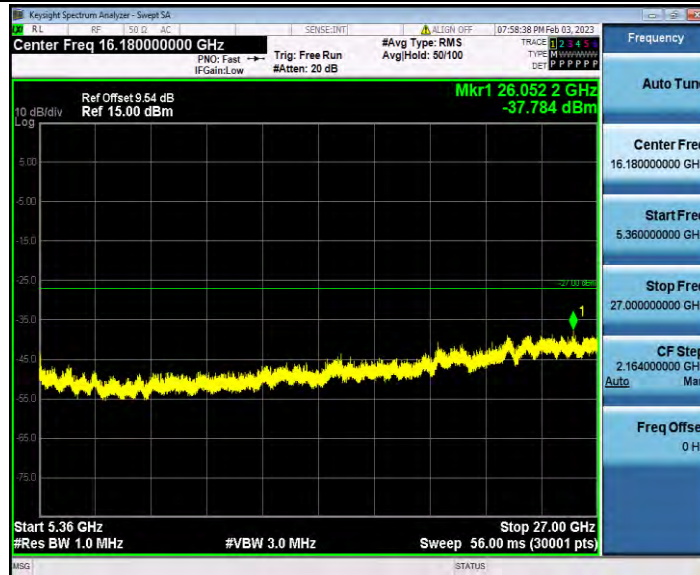
11N20SISO_Ant2_5200_5360~40000



11N20SISO_Ant2_5240_30~5140



11N20SISO_Ant2_5240_5360~40000



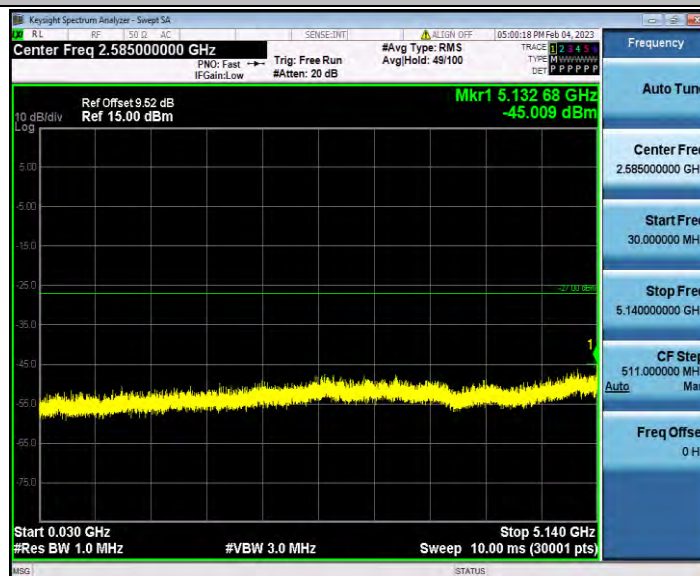
11N40SISO_Ant2_5190_30~5140



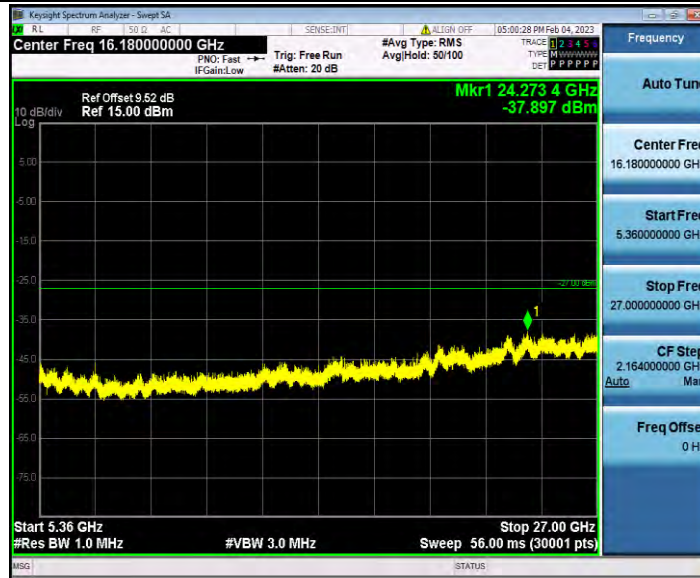
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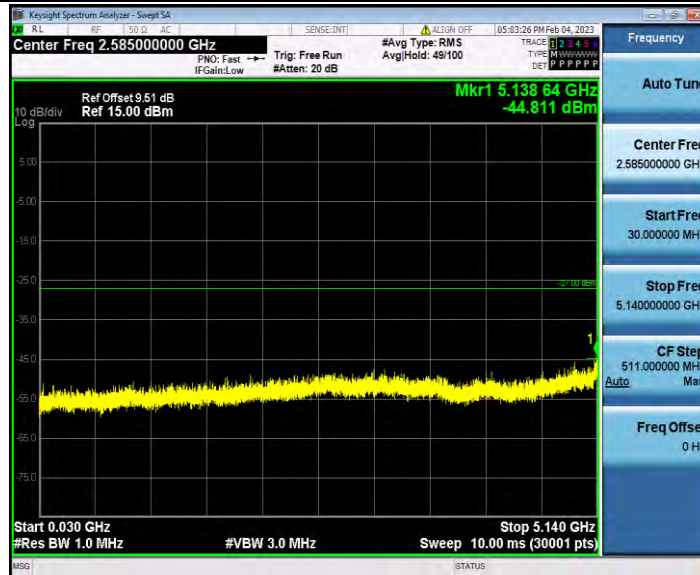
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11N40SISO_Ant2_5230_5360~40000



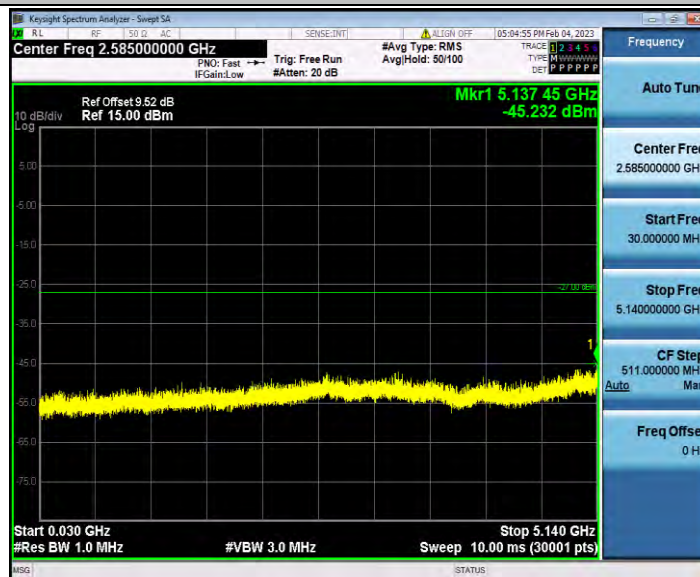
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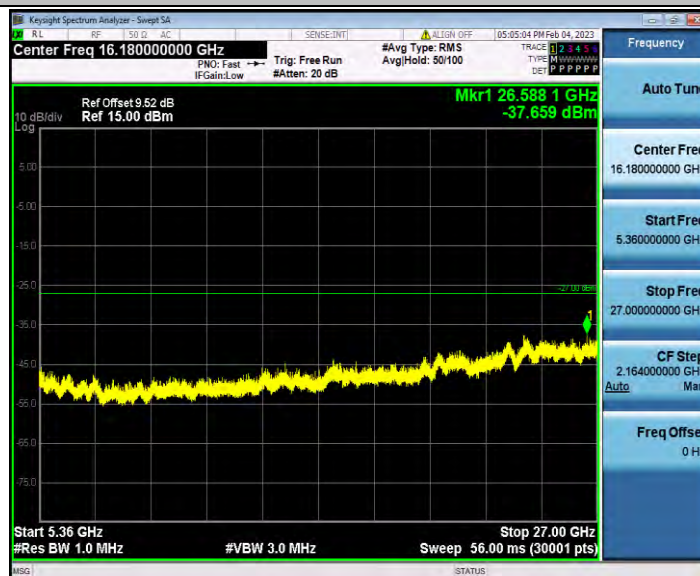
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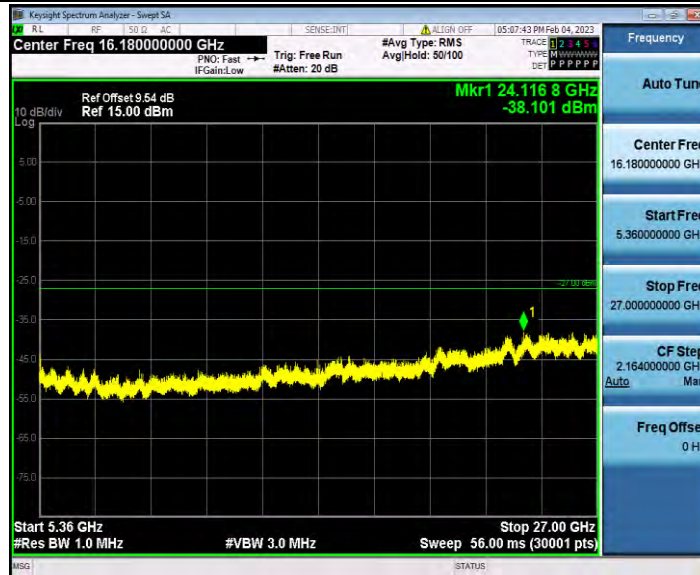
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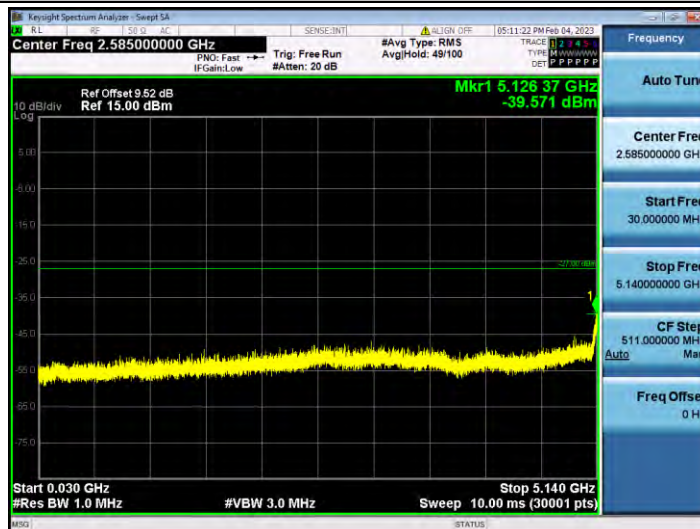
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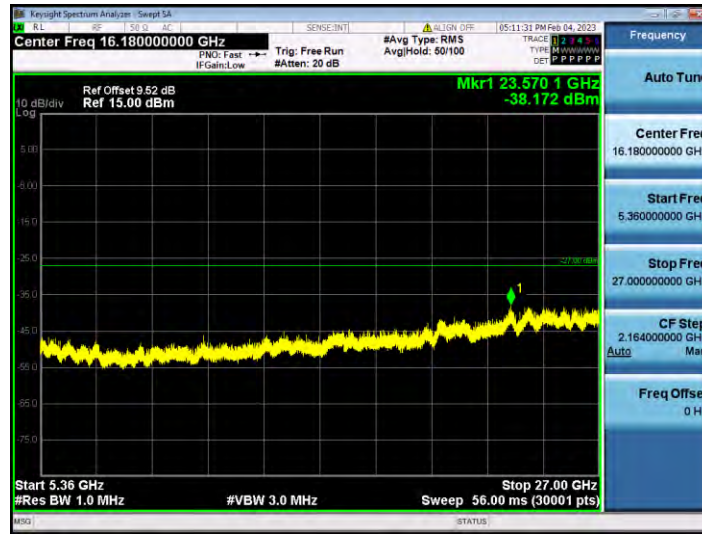
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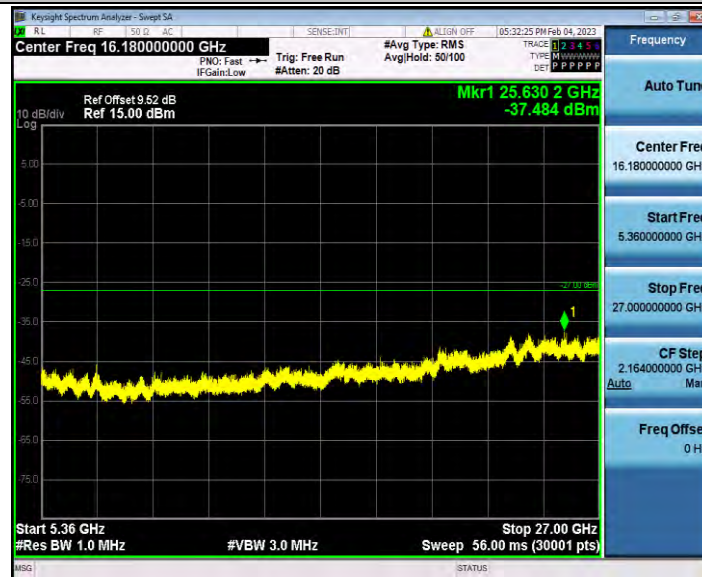
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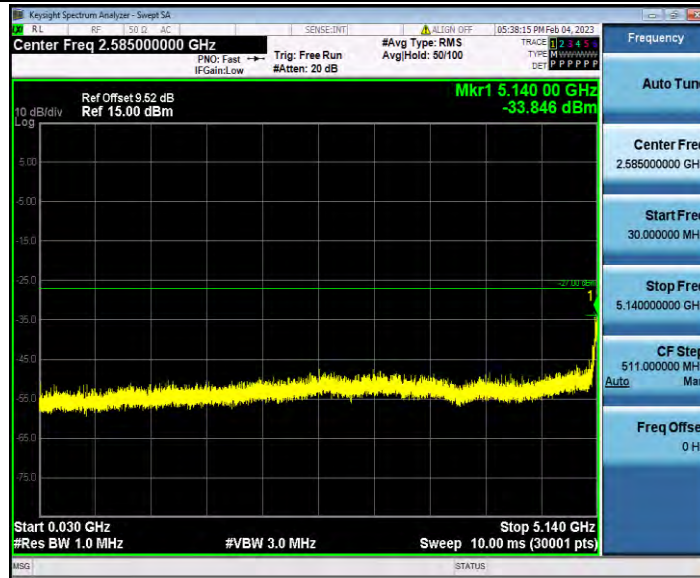
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11AC40SISO_Ant2_5230_5360~40000



11AC80SISO_Ant2_5210_30~5140



11AC80SISO_Ant2_5210_5360~40000

