

Case No. : <u>GTS20221219016-1-4</u>	
Ambient Condition: <u>25</u> °C, <u>45</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.1.4</u>	Test Engineer: <u>Jenny zeng</u>

Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	23.360	5168.280	5191.640	---	---
		5200	22.880	5188.520	5211.400	---	---
		5240	22.560	5228.800	5251.360	---	---
11N20SISO	Ant1	5180	23.440	5168.400	5191.840	---	---
		5200	23.360	5188.560	5211.920	---	---
		5240	23.320	5228.560	5251.880	---	---
11N40SISO	Ant1	5190	44.800	5167.440	5212.240	---	---
		5230	43.440	5208.000	5251.440	---	---
11AC20SISO	Ant1	5180	23.000	5168.360	5191.360	---	---
		5200	23.200	5188.320	5211.520	---	---
		5240	23.880	5228.360	5252.240	---	---
11AC40SISO	Ant1	5190	42.960	5168.560	5211.520	---	---
		5230	43.200	5208.400	5251.600	---	---
11AC80SISO	Ant1	5210	89.280	5167.280	5256.560	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



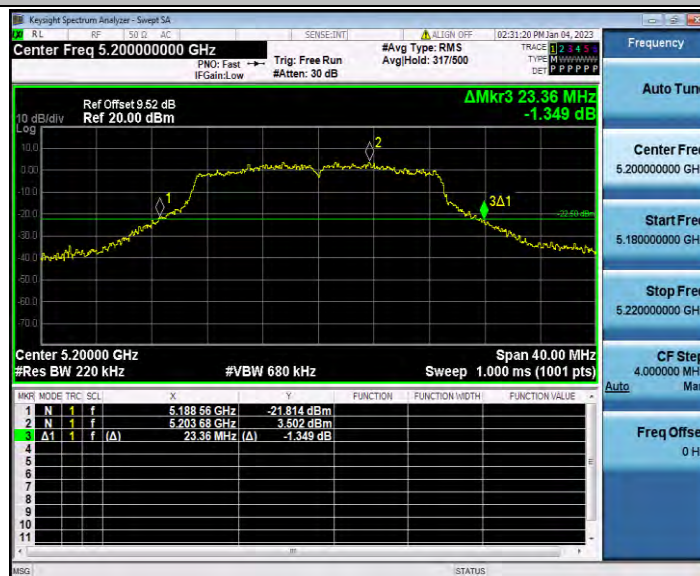
11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



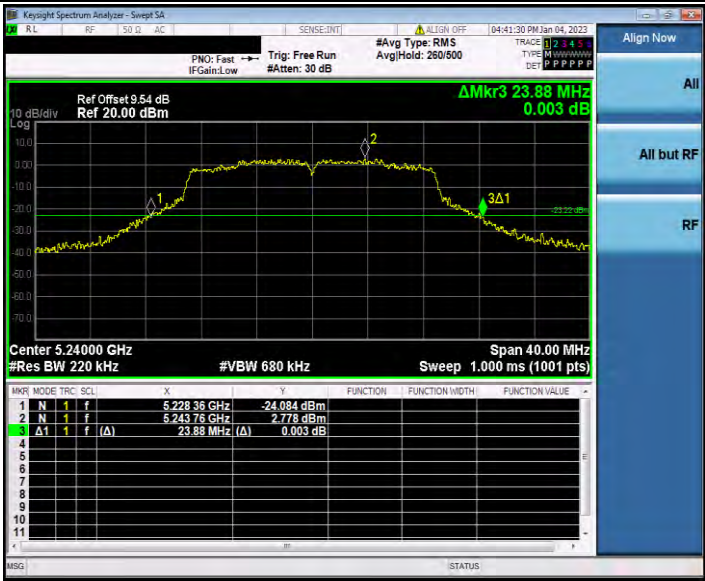
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.126	5171.460	5188.586	---	---
		5200	17.073	5191.460	5208.533	---	---
		5240	17.031	5231.506	5248.537	---	---
11N20SISO	Ant1	5180	18.010	5171.005	5189.015	---	---
		5200	18.095	5190.973	5209.068	---	---
		5240	18.042	5230.992	5249.034	---	---
11N40SISO	Ant1	5190	36.274	5171.933	5208.207	---	---
		5230	36.259	5211.901	5248.160	---	---
11AC20SISO	Ant1	5180	18.041	5171.004	5189.045	---	---
		5200	18.098	5190.996	5209.094	---	---
		5240	18.076	5230.997	5249.073	---	---
11AC40SISO	Ant1	5190	36.265	5171.904	5208.169	---	---
		5230	36.216	5211.893	5248.109	---	---
11AC80SISO	Ant1	5210	75.248	5172.538	5247.786	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



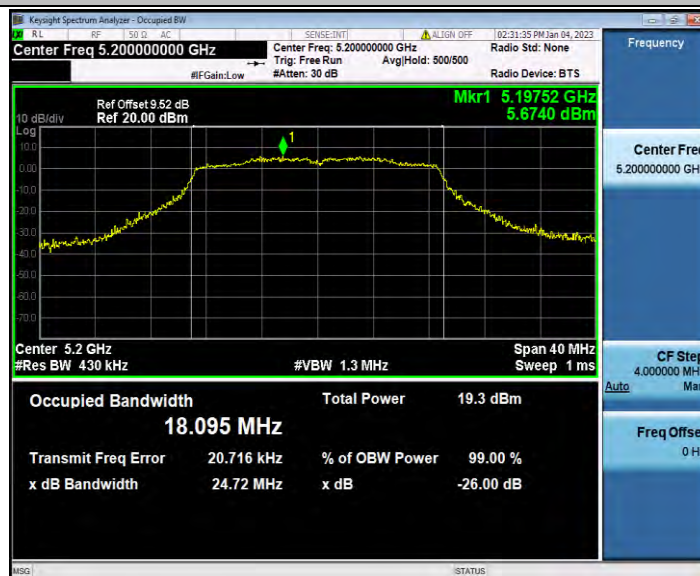
11A_Ant1_5240



11N20SISO_Ant1_5180



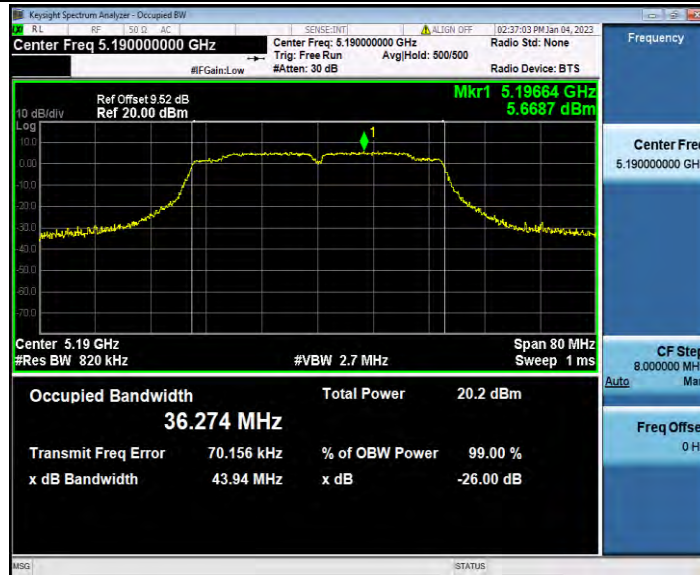
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



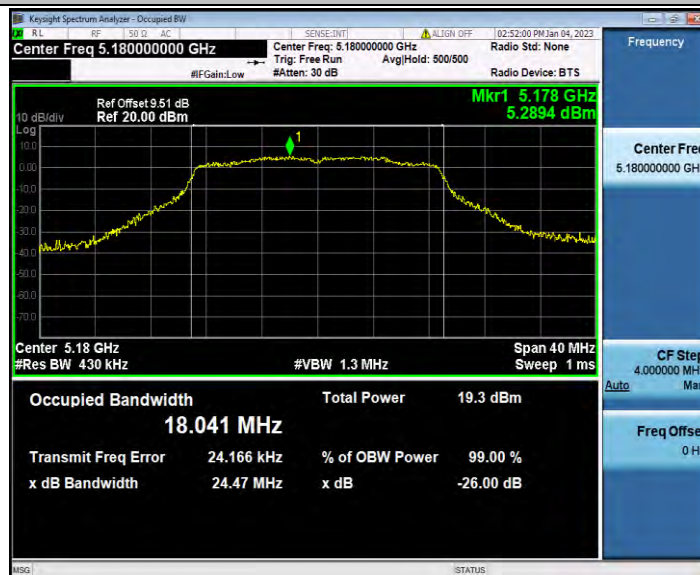
11N40SISO_Ant1_5190



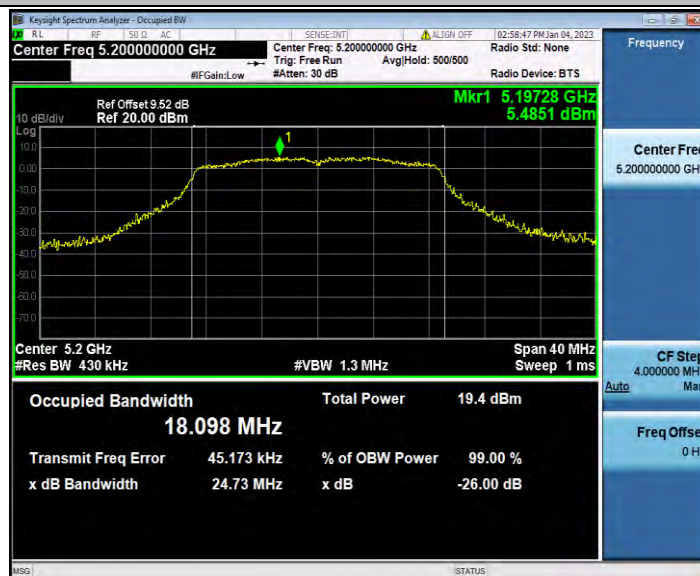
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



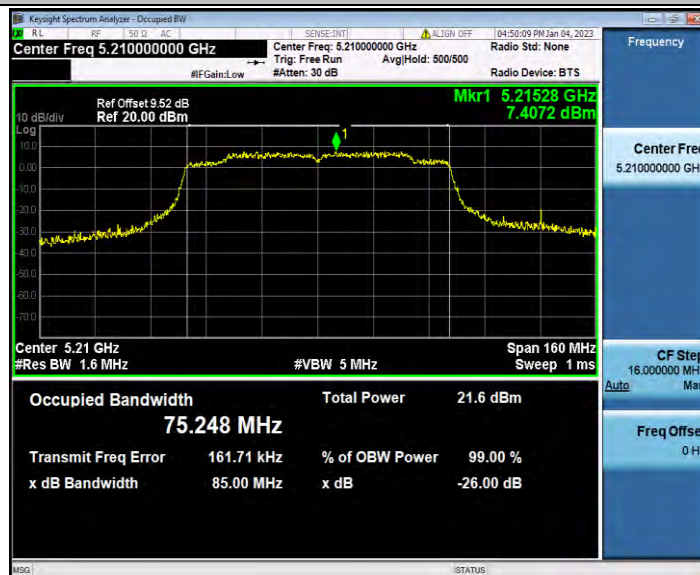
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



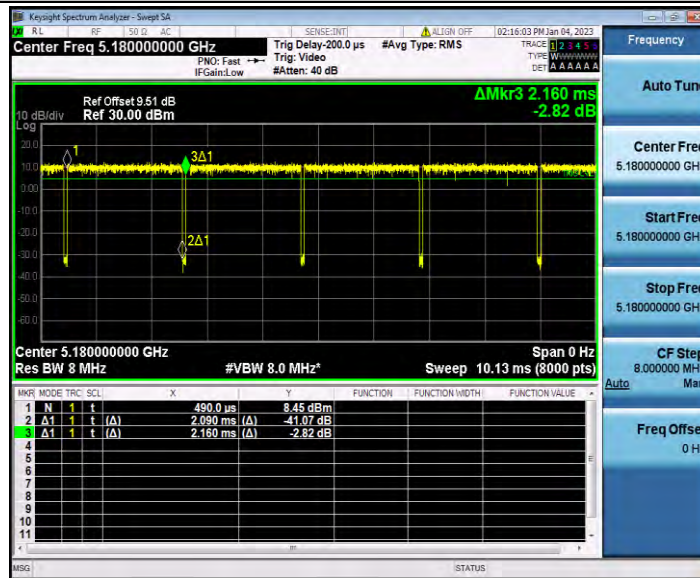
Appendix D.3: Duty Cycle

Test Result

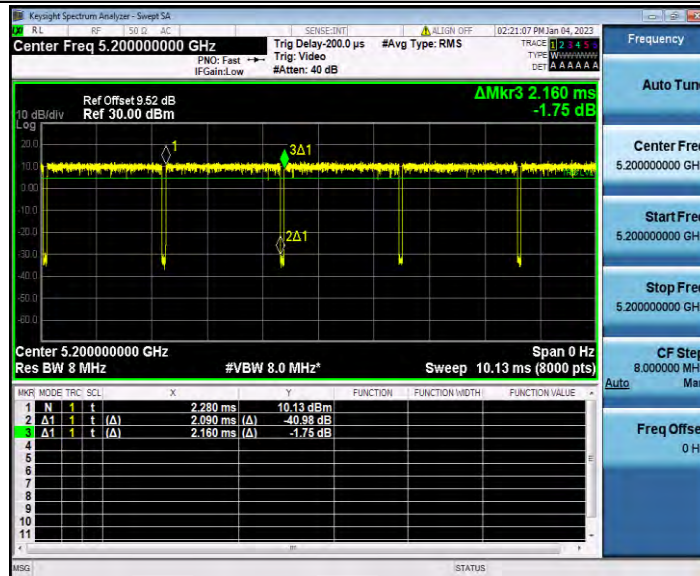
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.09	2.16	96.76
		5200	2.09	2.16	96.76
		5240	2.09	2.16	96.76
11N20SISO	Ant1	5180	3.25	3.32	97.89
		5200	3.25	3.32	97.89
		5240	3.25	3.32	97.89
11N40SISO	Ant1	5190	3.25	3.32	97.89
		5230	3.25	3.32	97.89
11AC20SISO	Ant1	5180	3.24	3.31	97.89
		5200	3.24	3.31	97.89
		5240	3.94	3.99	98.75
11AC40SISO	Ant1	5190	3.96	4.01	98.75
		5230	3.96	4.01	98.75
11AC80SISO	Ant1	5210	3.97	4.02	98.76

Test Graphs

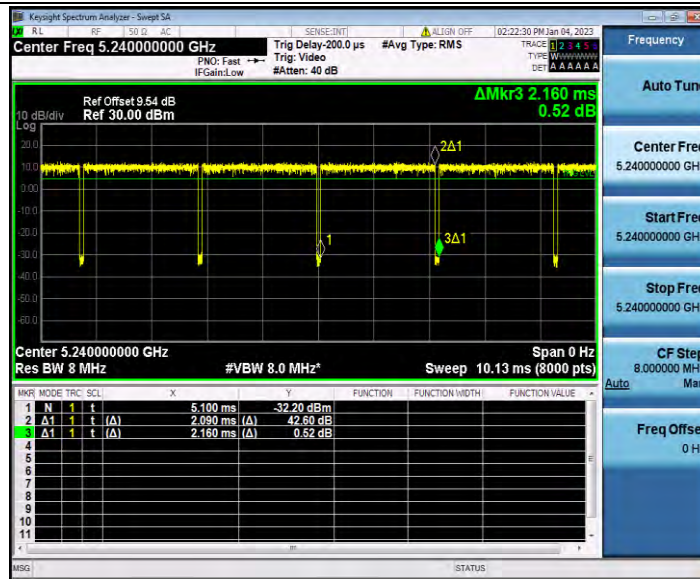
11A_Ant1_5180



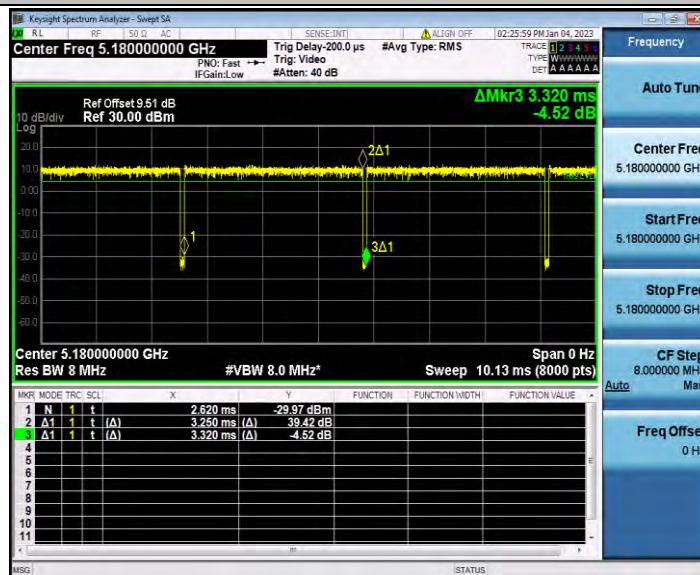
11A_Ant1_5200



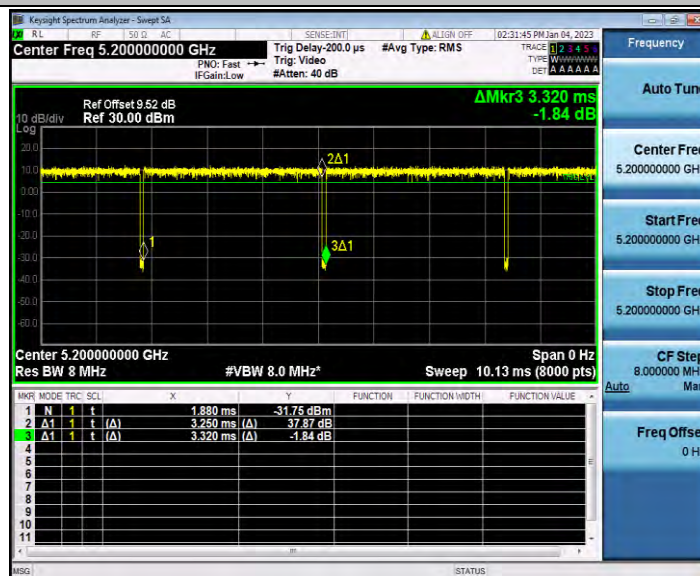
11A_Ant1_5240

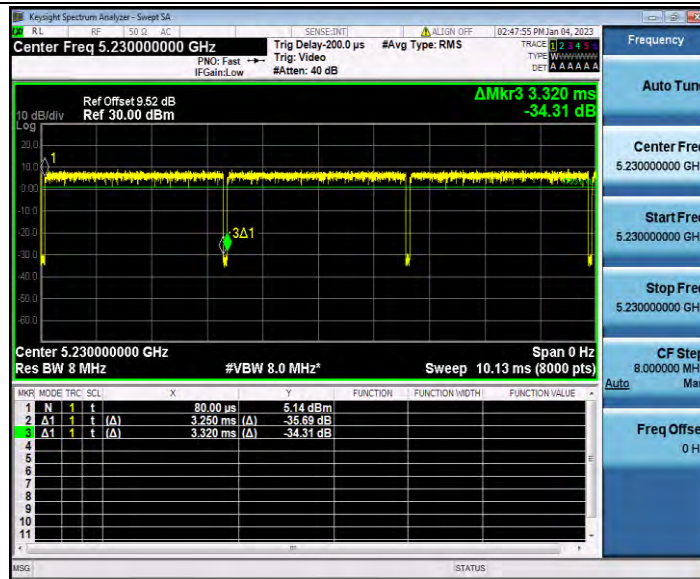


11N20SISO_Ant1_5180

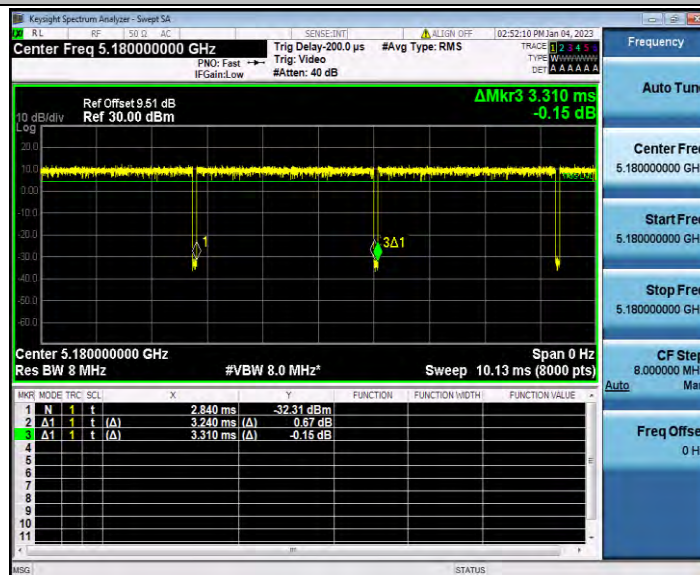


11N20SISO_Ant1_5200

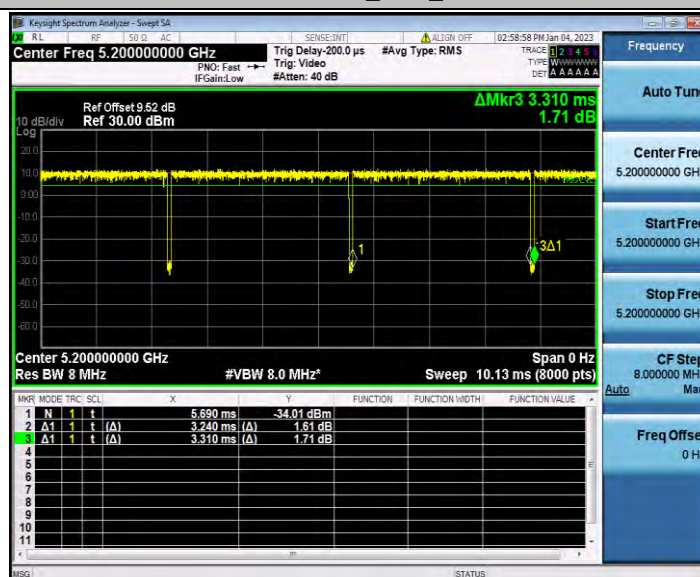




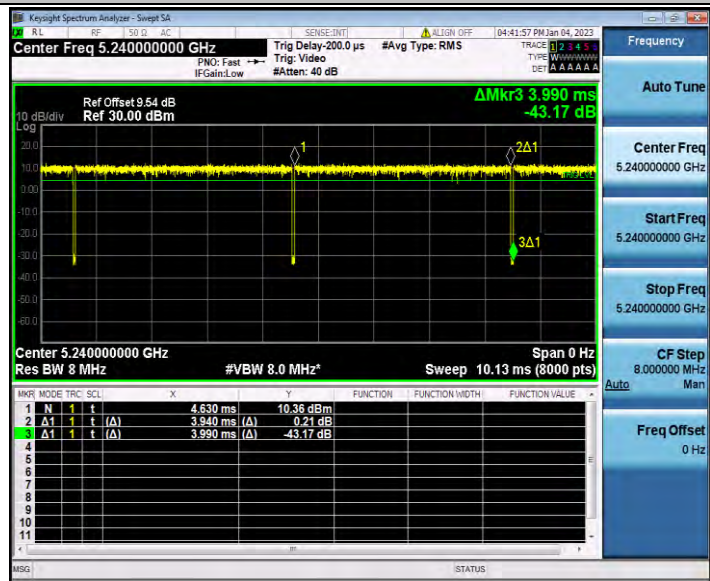
11AC20SISO_Ant1_5180



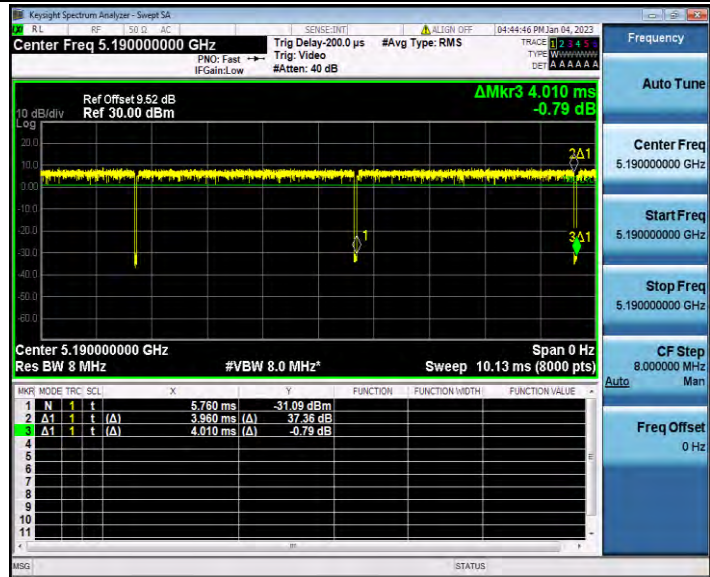
11AC20SISO_Ant1_5200



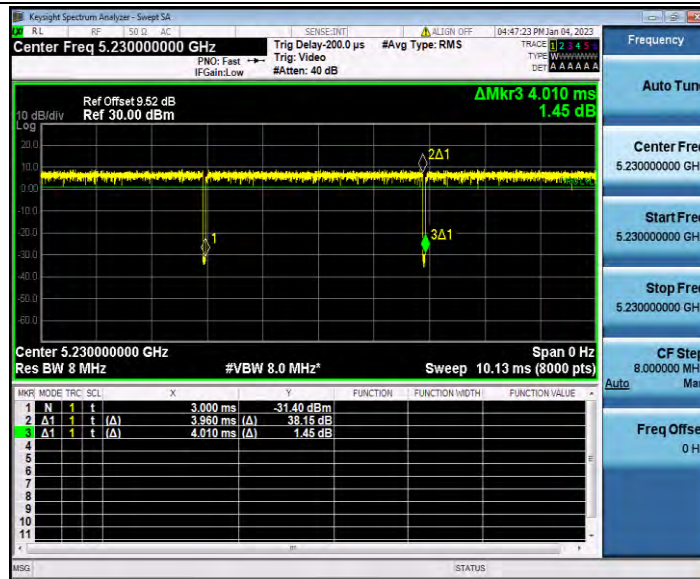
11AC20SISO_Ant1_5240



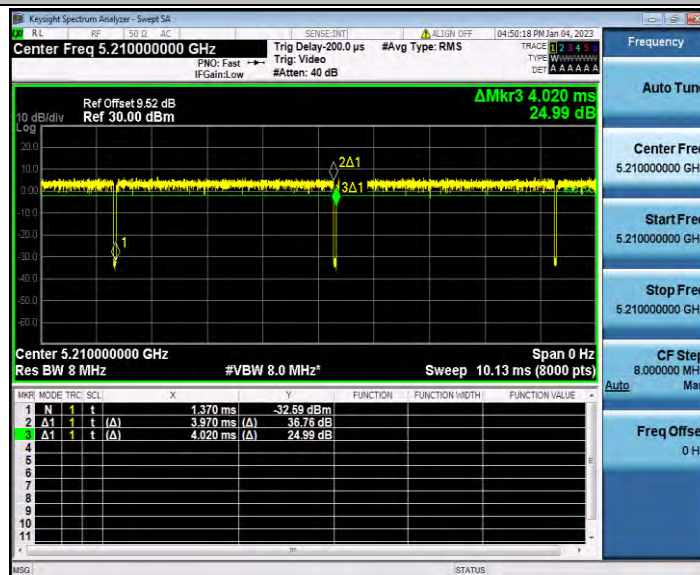
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_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	Ant1	5180	12.44	96.76	0.14	12.58	≤23.98	PASS
		5200	12.47	96.76	0.14	12.61	≤23.98	PASS
		5240	12.43	96.76	0.14	12.57	≤23.98	PASS
11N20SISO	Ant1	5180	12.37	97.89	0.09	12.46	≤23.98	PASS
		5200	12.35	97.89	0.09	12.44	≤23.98	PASS
		5240	12.39	97.89	0.09	12.48	≤23.98	PASS
11N40SISO	Ant1	5190	12.47	97.89	0.09	12.56	≤23.98	PASS
		5230	12.52	97.89	0.09	12.61	≤23.98	PASS
11AC20SISO	Ant1	5180	12.27	97.89	0.09	12.36	≤23.98	PASS
		5200	12.34	97.89	0.09	12.43	≤23.98	PASS
		5240	12.41	98.75	0.05	12.46	≤23.98	PASS
11AC40SISO	Ant1	5190	12.61	98.75	0.05	12.66	≤23.98	PASS
		5230	12.63	98.75	0.05	12.68	≤23.98	PASS
11AC80SISO	Ant1	5210	12.65	98.76	0.05	12.70	≤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	Ant1	5180	1.59	≤11.00	PASS
		5200	1.74	≤11.00	PASS
		5240	1.73	≤11.00	PASS
11N20SISO	Ant1	5180	1.28	≤11.00	PASS
		5200	1.35	≤11.00	PASS
		5240	1.46	≤11.00	PASS
11N40SISO	Ant1	5190	-1.7	≤11.00	PASS
		5230	-1.69	≤11.00	PASS
11AC20SISO	Ant1	5180	1.25	≤11.00	PASS
		5200	1.37	≤11.00	PASS
		5240	1.49	≤11.00	PASS
11AC40SISO	Ant1	5190	-1.52	≤11.00	PASS
		5230	-1.54	≤11.00	PASS
11AC80SISO	Ant1	5210	-4.41	≤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_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



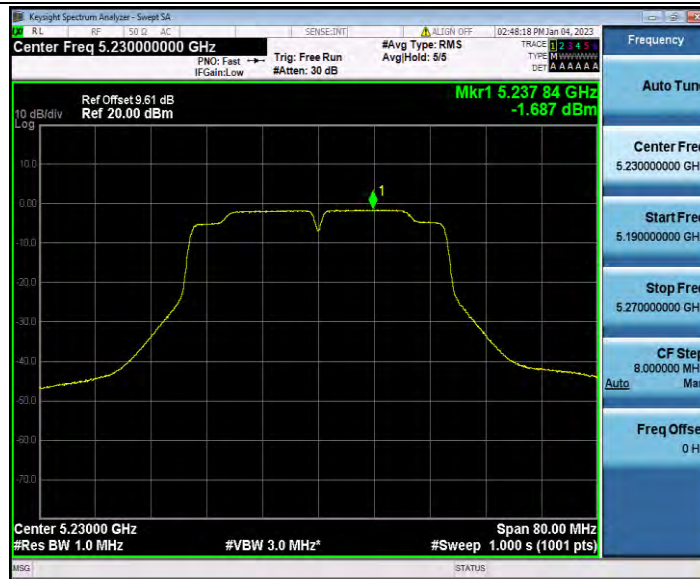
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



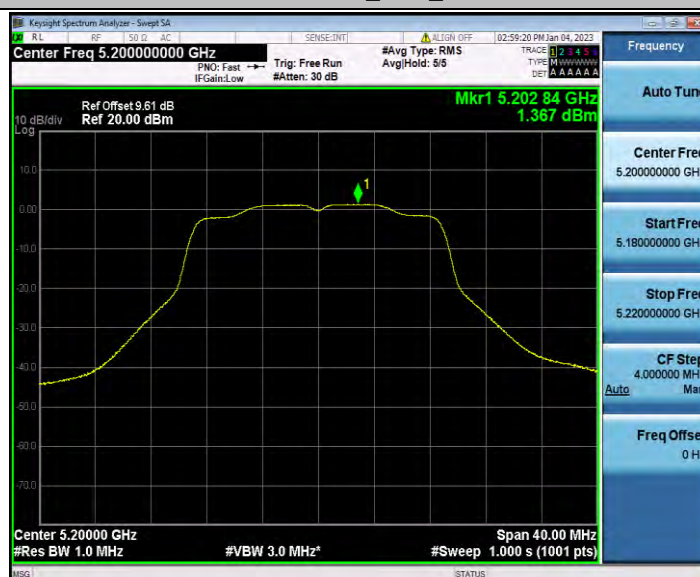
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



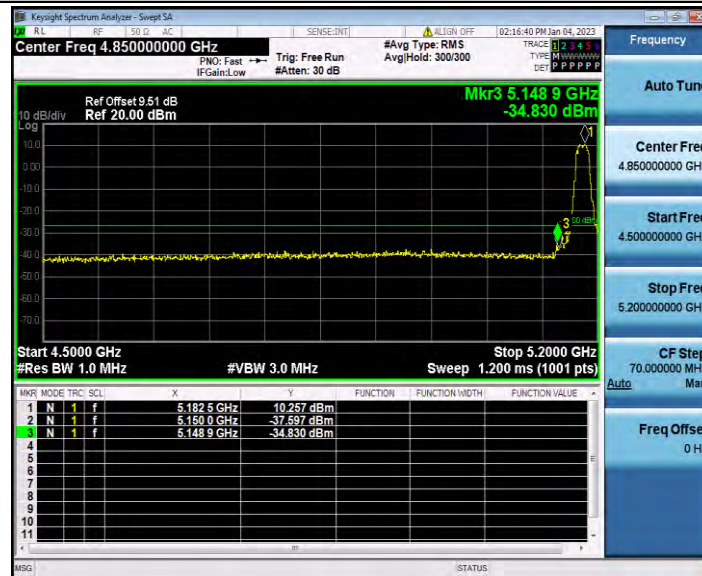
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-34.83	≤-27	PASS
		High	5240	-36.9	≤-27	PASS
11N20SISO	Ant1	Low	5180	-35.52	≤-27	PASS
		High	5240	-38.35	≤-27	PASS
11N40SISO	Ant1	Low	5190	-33.92	≤-27	PASS
		High	5230	-38.24	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-34.75	≤-27	PASS
		High	5240	-37.69	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-34.05	≤-27	PASS
		High	5230	-37.81	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-32.42	≤-27	PASS
		High	5210	-37.41	≤-27	PASS

Test Graphs B1

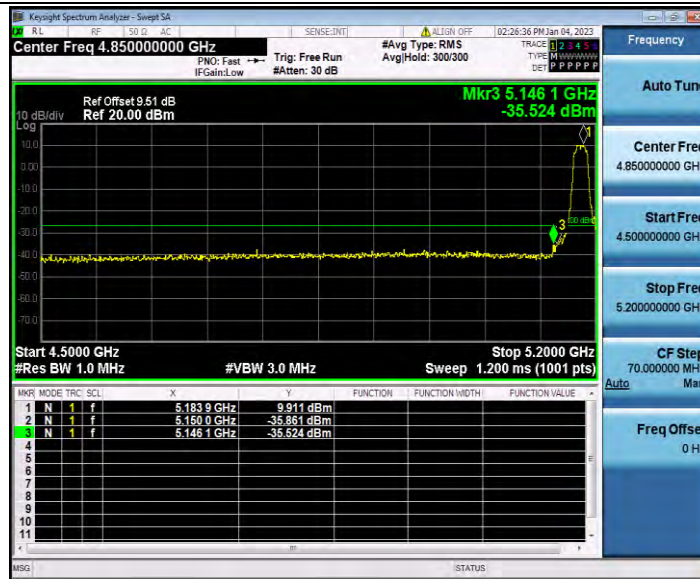
11A_Ant1_Low_5180



11A_Ant1_High_5240



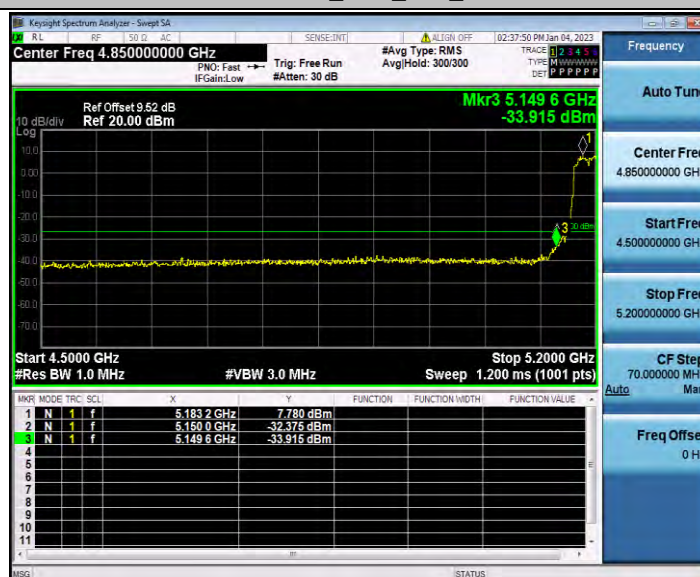
11N20SISO_Ant1_Low_5180



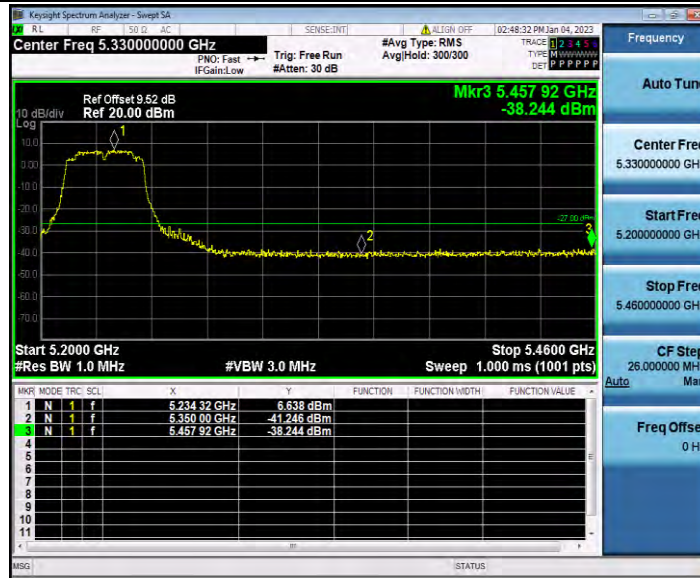
11N20SISO_Ant1_High_5240



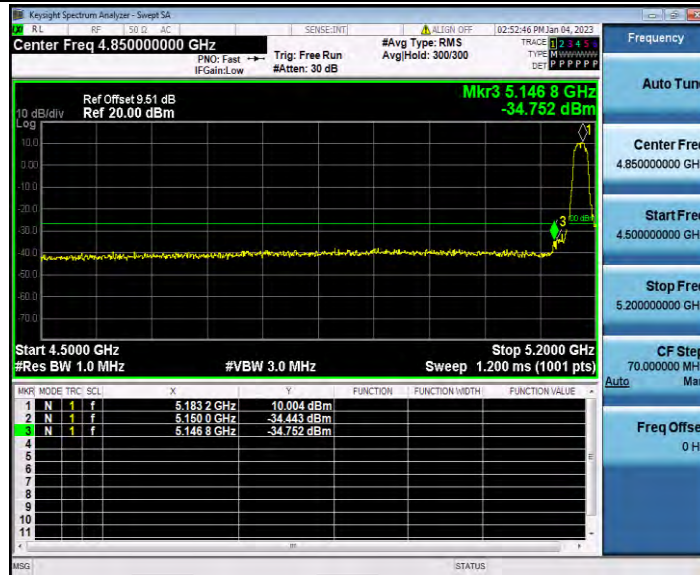
11N40SISO_Ant1_Low_5190



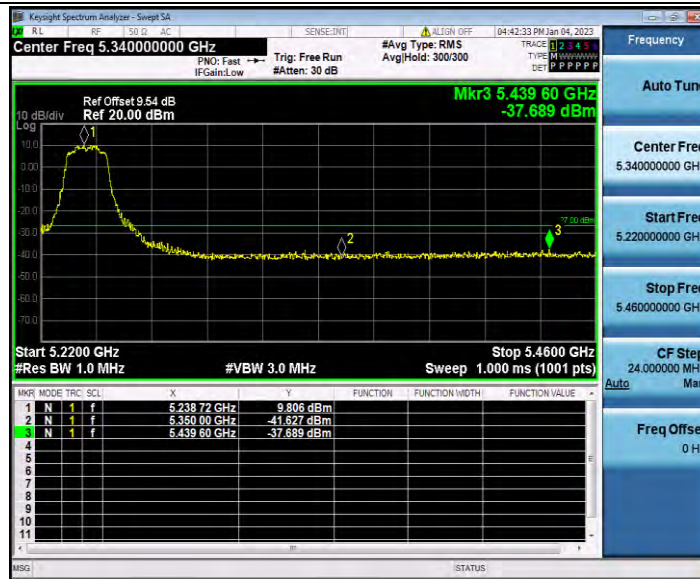
11N40SISO_Ant1_High_5230



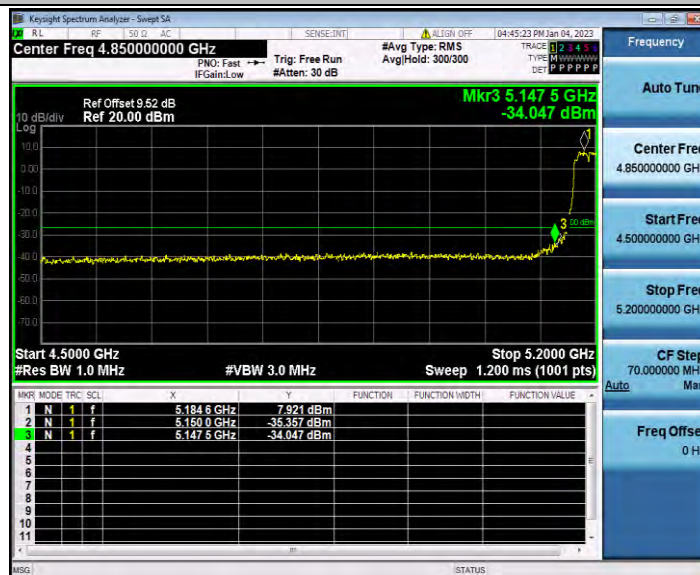
11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240



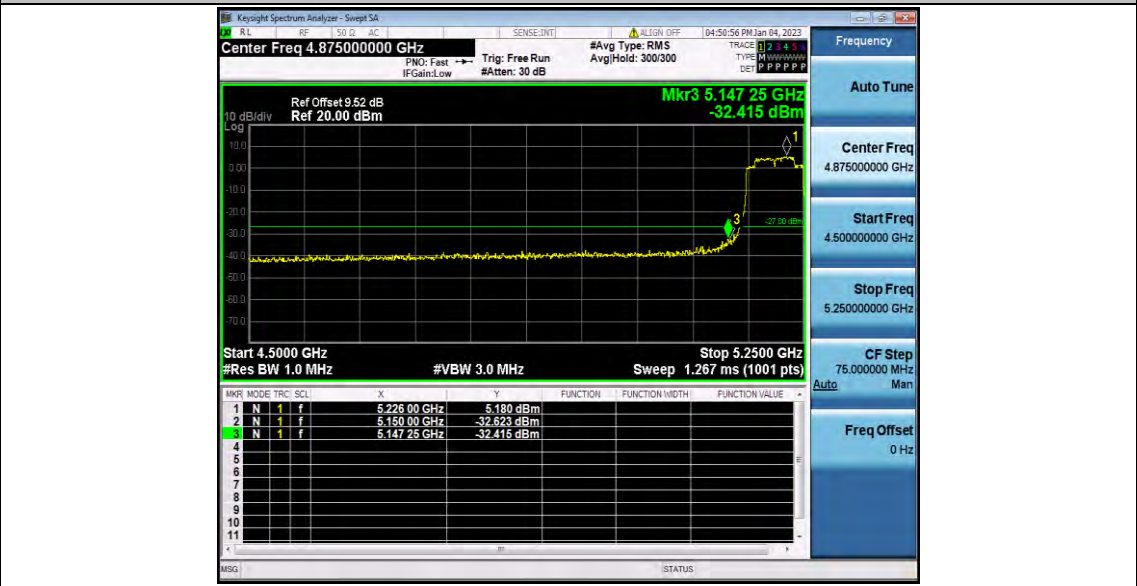
11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



Appendix D.7: Conducted Spurious Emission

Test Result

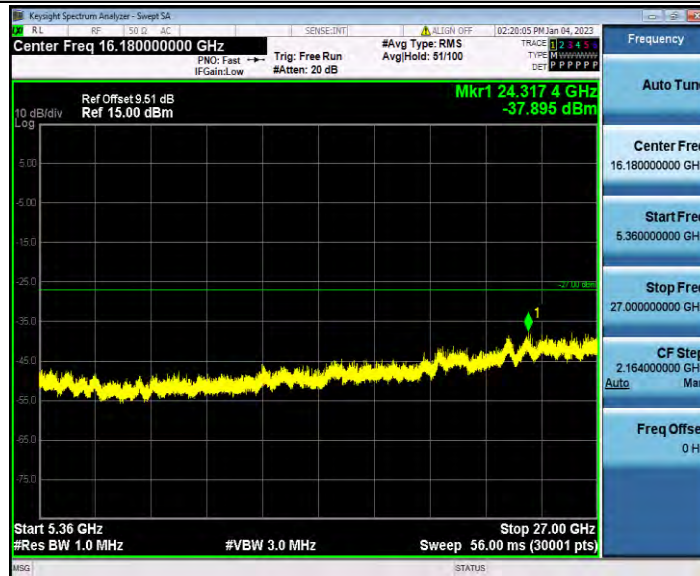
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5026.22	-46.38	≤-27	PASS
			5360~40000	24317.36	-37.9	≤-27	PASS
		5200	30~5140	5036.78	-46.66	≤-27	PASS
			5360~40000	24312.31	-38.02	≤-27	PASS
		5240	30~5140	4958.42	-46.82	≤-27	PASS
			5360~40000	25700.88	-38.04	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	2638.31	-47.09	≤-27	PASS
			5360~40000	24217.1	-37.37	≤-27	PASS
		5200	30~5140	2881.38	-47.06	≤-27	PASS
			5360~40000	24207	-38.01	≤-27	PASS
		5240	30~5140	2694.01	-47.15	≤-27	PASS
			5360~40000	25219.75	-37.54	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5139.15	-40.83	≤-27	PASS
			5360~40000	25243.55	-37.83	≤-27	PASS
		5230	30~5140	2904.89	-47.02	≤-27	PASS
			5360~40000	25247.88	-38.35	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	1749.34	-43.82	≤-27	PASS
			5360~40000	26531.13	-38.39	≤-27	PASS
		5200	30~5140	3116.78	-47.65	≤-27	PASS
			5360~40000	26765.57	-38.42	≤-27	PASS
		5240	30~5140	4937.3	-46.92	≤-27	PASS
			5360~40000	24836	-37.52	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5130.46	-37.97	≤-27	PASS
			5360~40000	26826.16	-38.18	≤-27	PASS
		5230	30~5140	5135.91	-46.33	≤-27	PASS
			5360~40000	24782.62	-37.99	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5135.4	-38.16	≤-27	PASS
			5360~40000	25987.25	-38.09	≤-27	PASS

Test Graphs

11A_Ant1_5180_30~5140



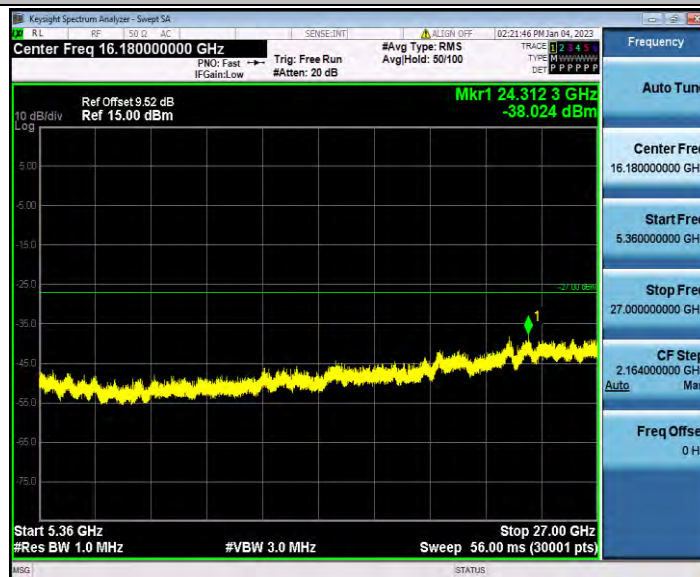
11A_Ant1_5180_5360~40000



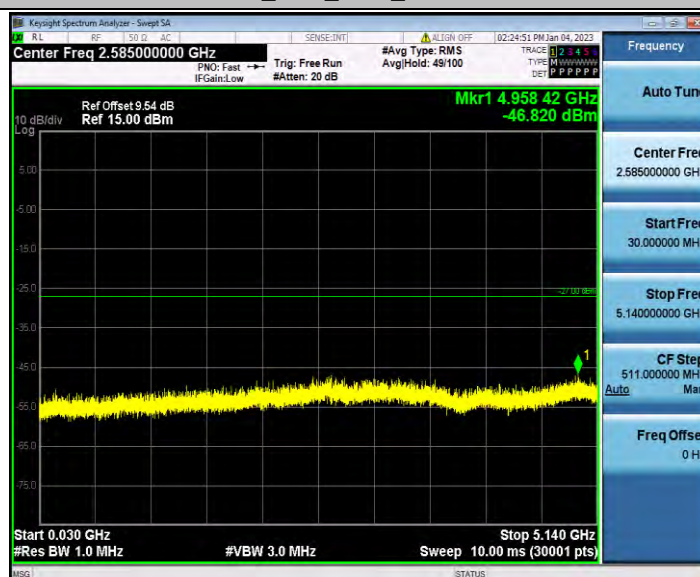
11A_Ant1_5200_30~5140



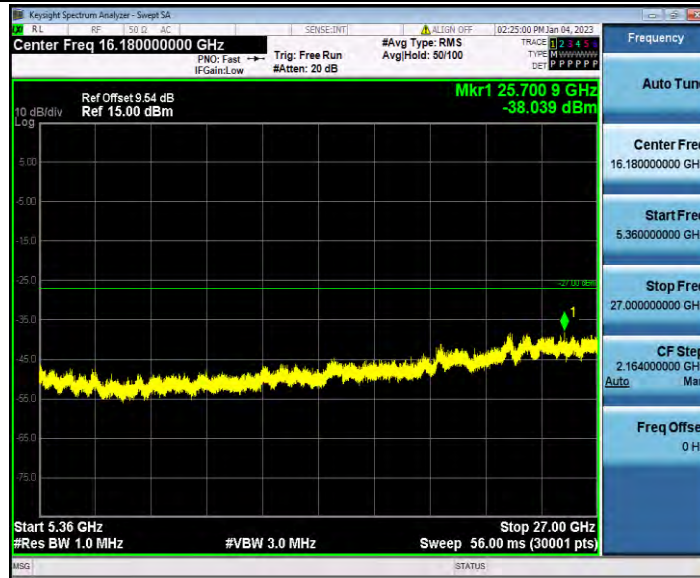
11A_Ant1_5200_5360~40000



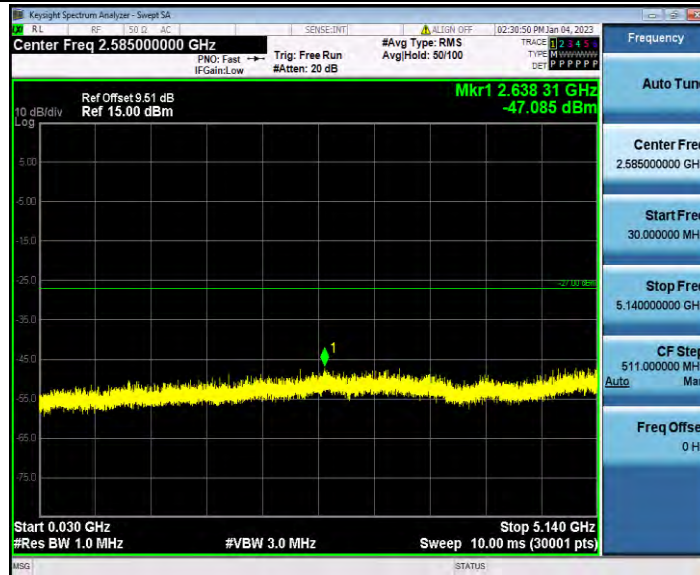
11A_Ant1_5240_30~5140



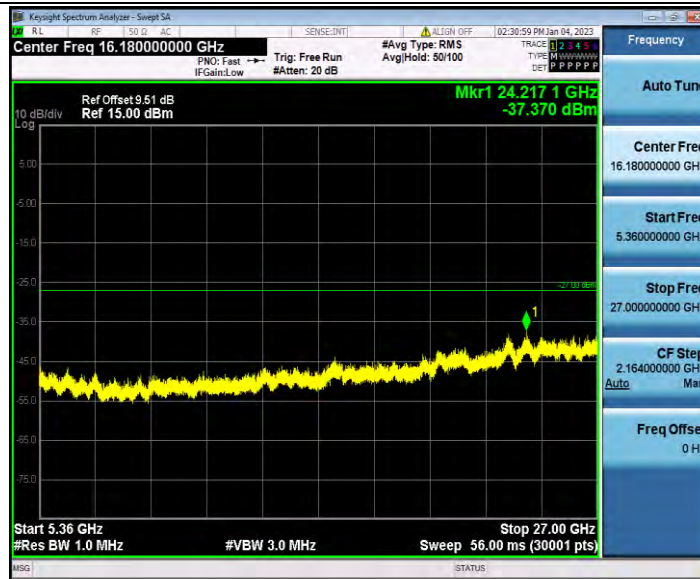
11A_Ant1_5240_5360~40000



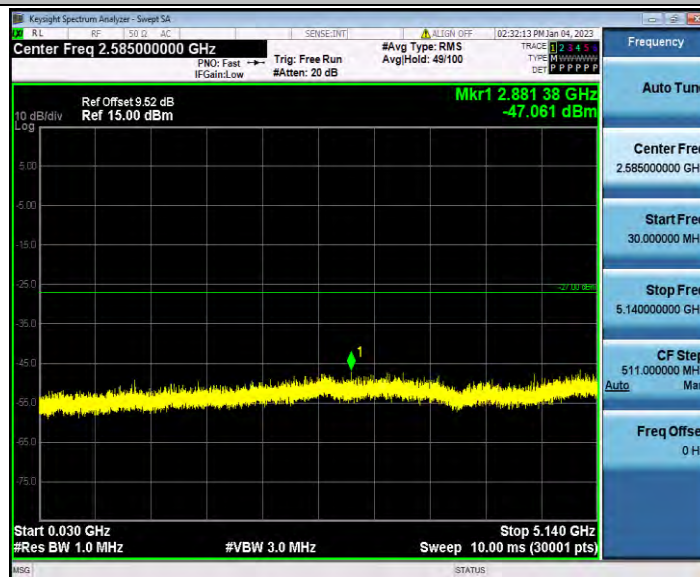
11N20SISO_Ant1_5180_30~5140



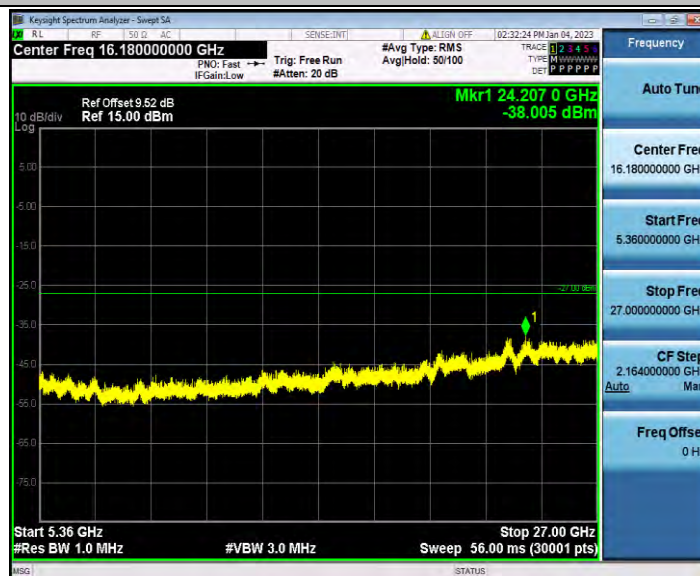
11N20SISO_Ant1_5180_5360~40000



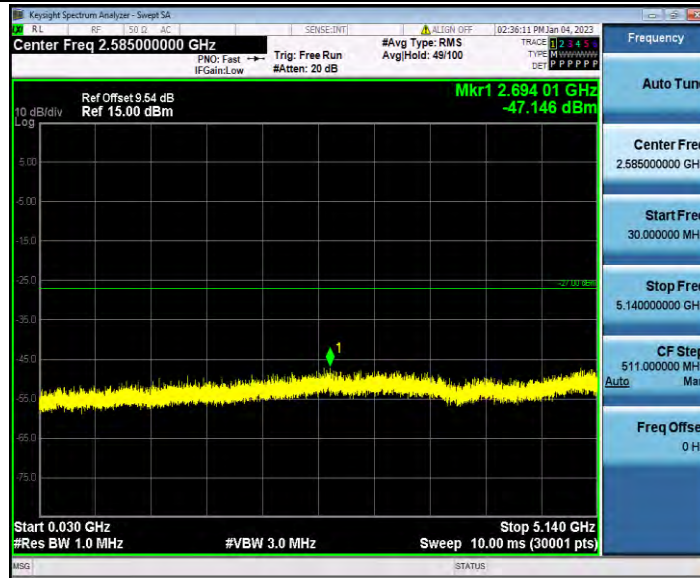
11N20SISO_Ant1_5200_30~5140



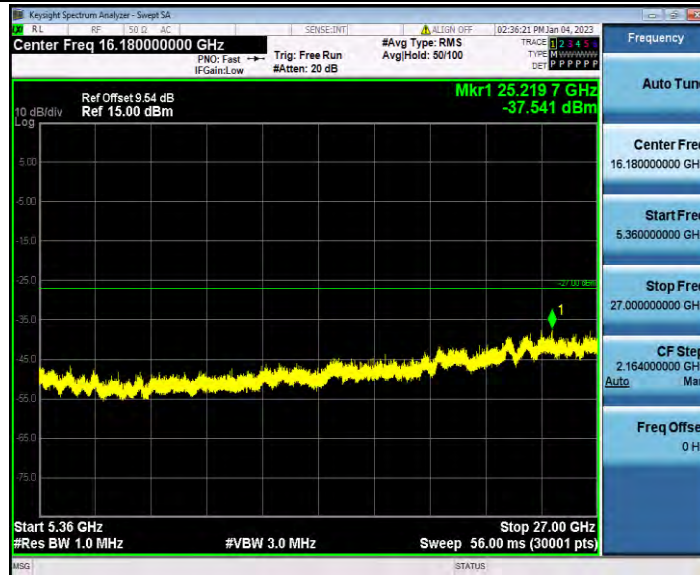
11N20SISO_Ant1_5200_5360~40000



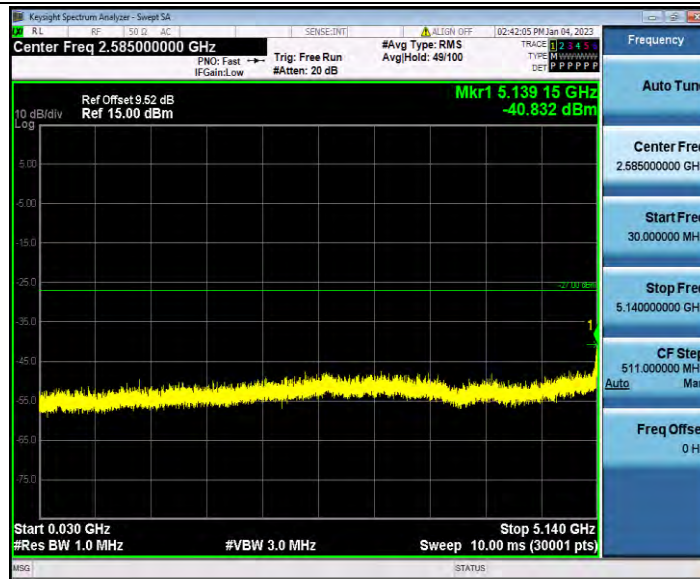
11N20SISO_Ant1_5240_30~5140



11N20SISO_Ant1_5240_5360~40000



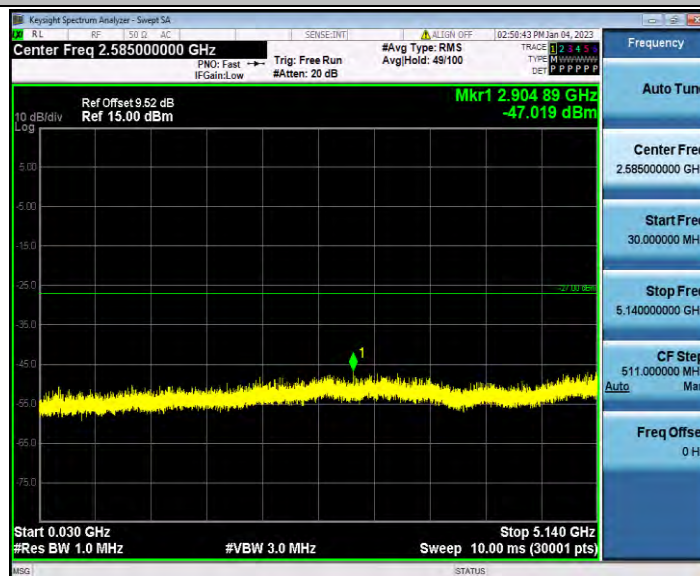
11N40SISO_Ant1_5190_30~5140



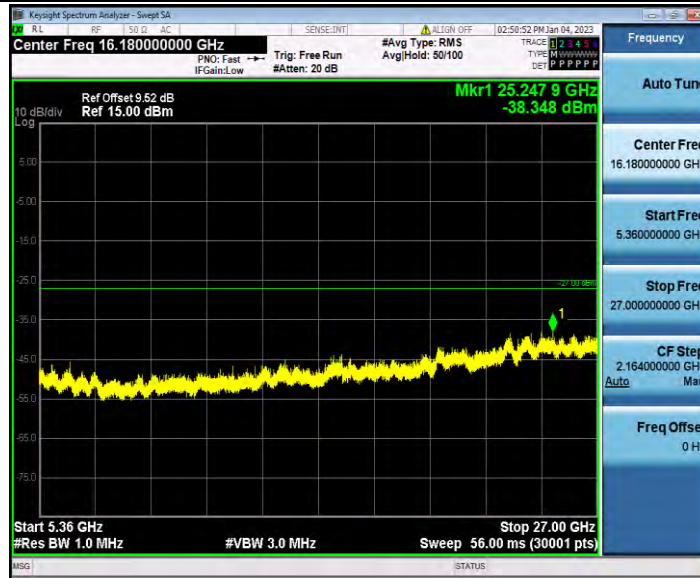
11N40SISO_Ant1_5190_5360~40000



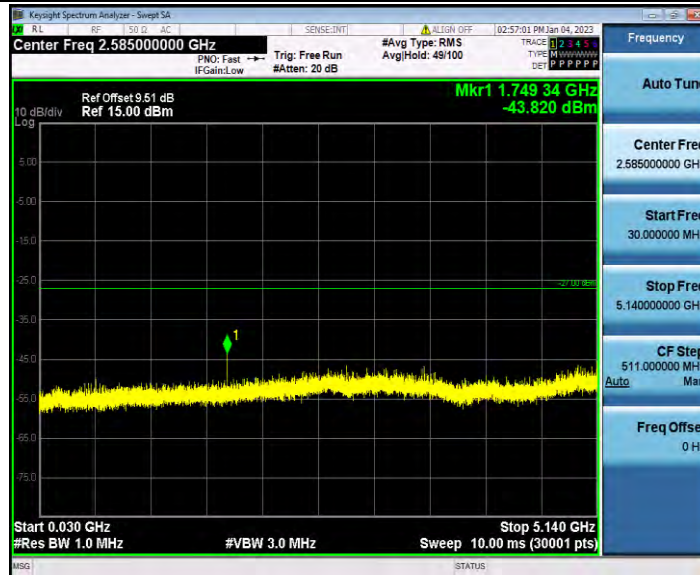
11N40SISO_Ant1_5230_30~5140



11N40SISO_Ant1_5230_5360~40000



11AC20SISO_Ant1_5180_30~5140



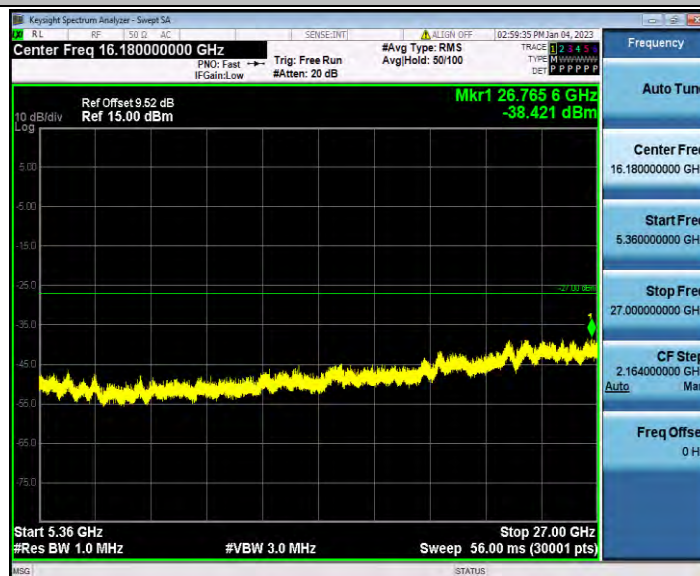
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11AC20SISO_Ant1_5200_30~5140



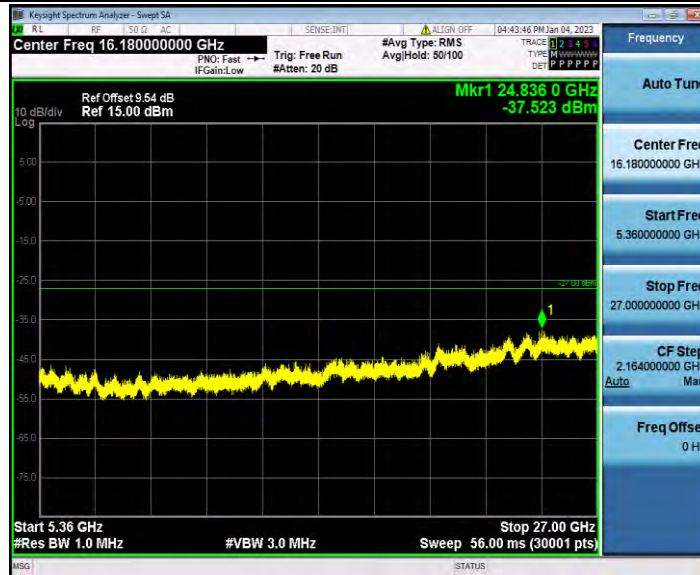
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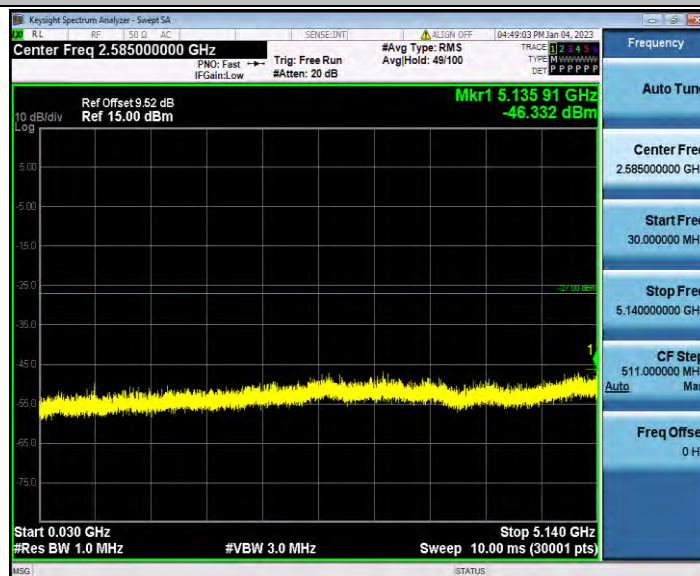
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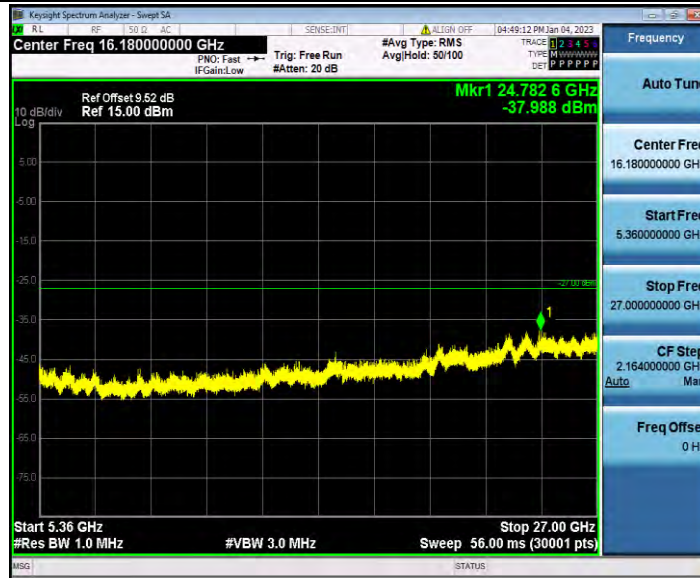
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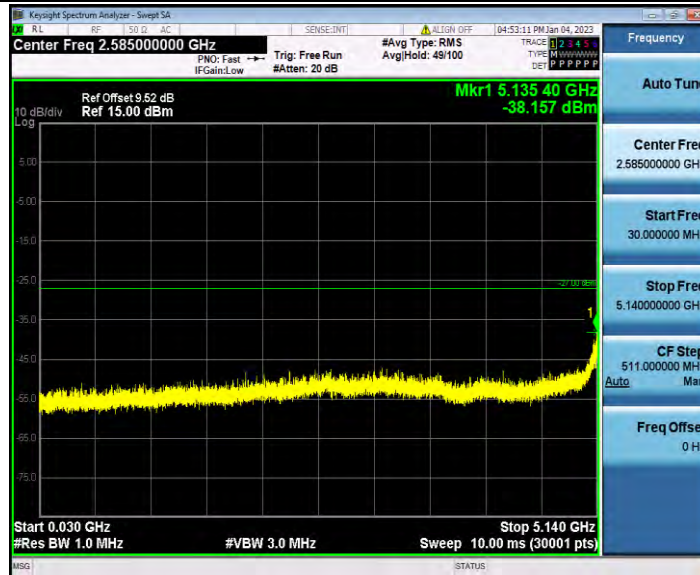
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11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_5360~40000



11AC80SISO_Ant1_5210_5360~40000

