

Case No. : GTS20220920004-2-13	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2022.12.19	Test Engineer: Jenny zeng

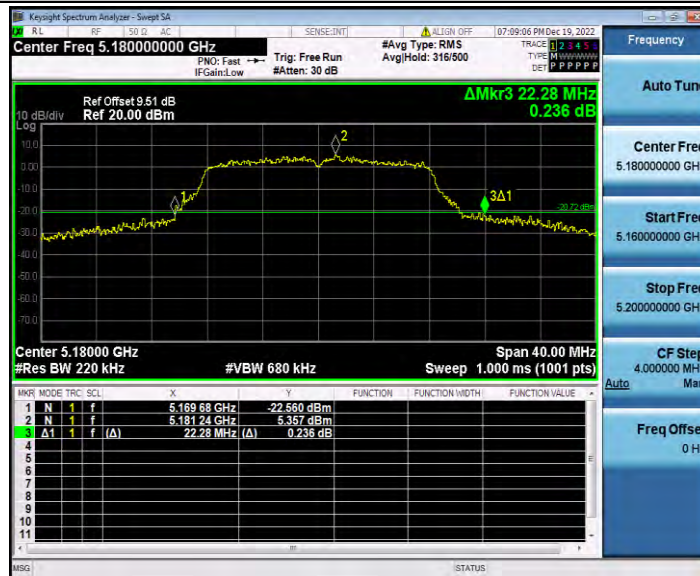
Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.280	5169.680	5191.960	---	---
		5200	31.480	5184.280	5215.760	---	---
		5240	30.760	5224.520	5255.280	---	---
11N20SISO	Ant1	5180	20.320	5169.920	5190.240	---	---
		5200	31.760	5185.040	5216.800	---	---
		5240	31.320	5224.320	5255.640	---	---
11N40SISO	Ant1	5190	40.080	5170.080	5210.160	---	---
		5230	57.120	5199.760	5256.880	---	---
11AC20SISO	Ant1	5180	20.120	5169.960	5190.080	---	---
		5200	31.400	5185.520	5216.920	---	---
		5240	31.040	5224.280	5255.320	---	---
11AC40SISO	Ant1	5190	47.520	5169.840	5217.360	---	---
		5230	65.600	5197.120	5262.720	---	---
11AC80SISO	Ant1	5210	82.880	5169.520	5252.400	---	---

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



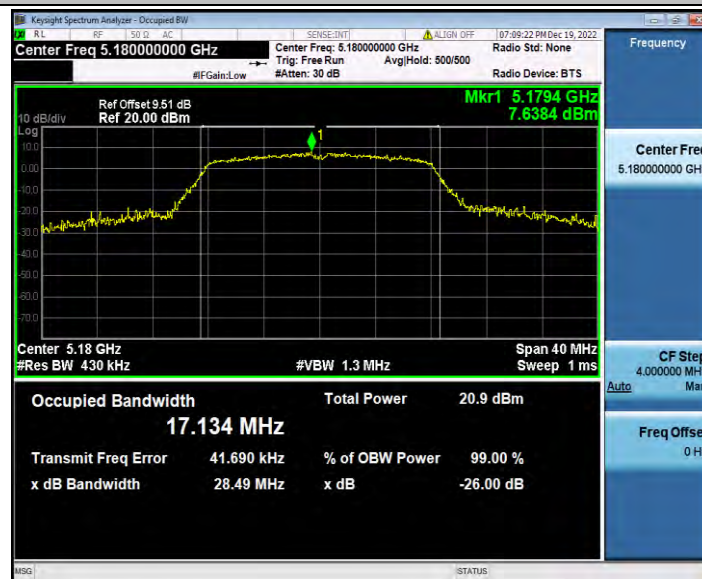
Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.134	5171.475	5188.609	---	---
		5200	18.618	5190.844	5209.462	---	---
		5240	18.698	5230.796	5249.494	---	---
11N20SISO	Ant1	5180	17.980	5171.025	5189.005	---	---
		5200	18.690	5190.690	5209.380	---	---
		5240	18.592	5230.708	5249.300	---	---
11N40SISO	Ant1	5190	36.470	5171.818	5208.288	---	---
		5230	36.872	5211.604	5248.476	---	---
11AC20SISO	Ant1	5180	17.894	5171.060	5188.954	---	---
		5200	18.638	5190.747	5209.385	---	---
		5240	18.565	5230.712	5249.277	---	---
11AC40SISO	Ant1	5190	36.358	5171.890	5208.248	---	---
		5230	37.294	5211.479	5248.773	---	---
11AC80SISO	Ant1	5210	75.522	5172.320	5247.842	---	---

Test Graphs

11A_Ant1_5180



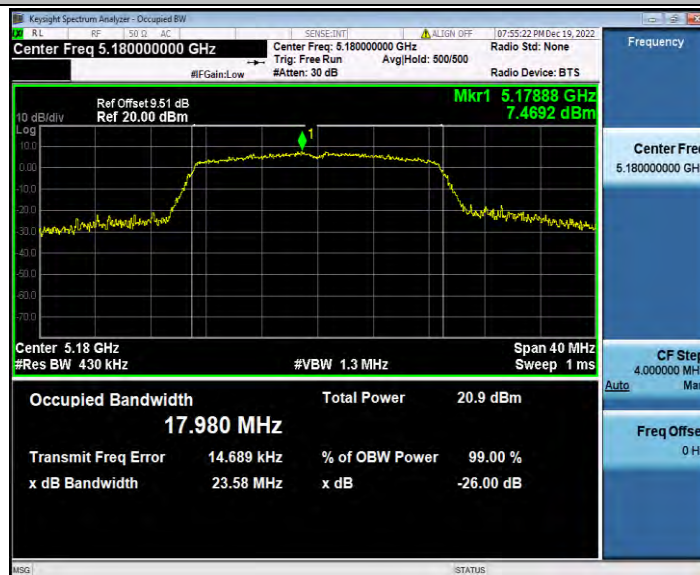
11A_Ant1_5200



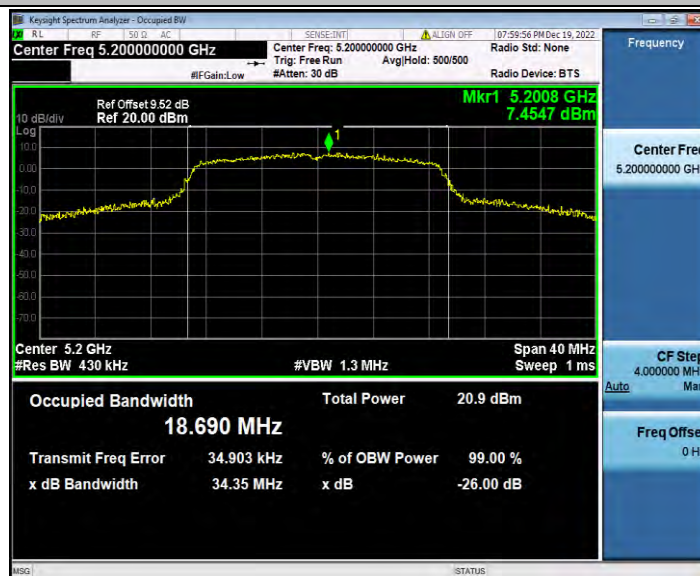
11A_Ant1_5240



11N20SISO_Ant1_5180



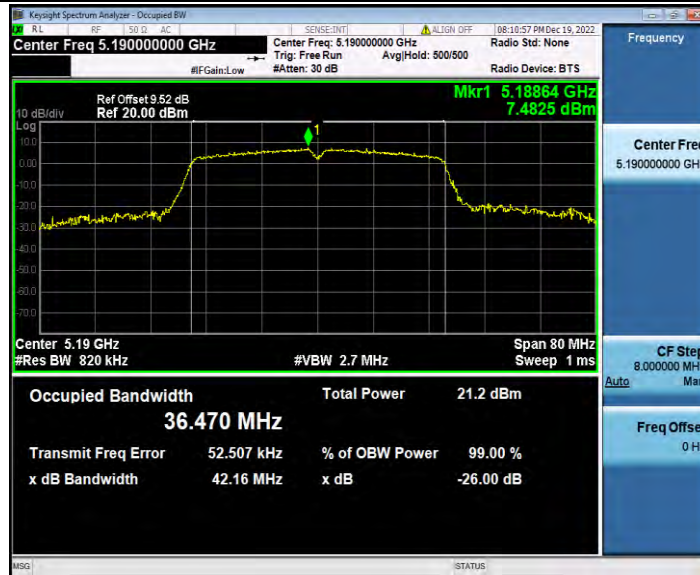
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



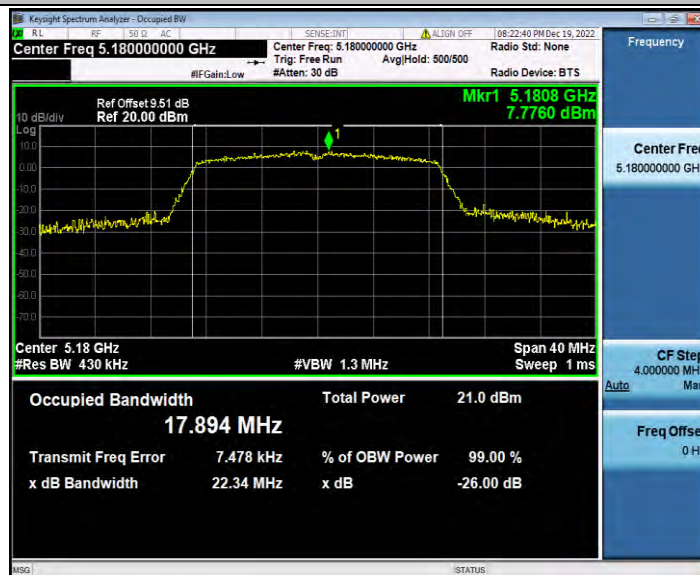
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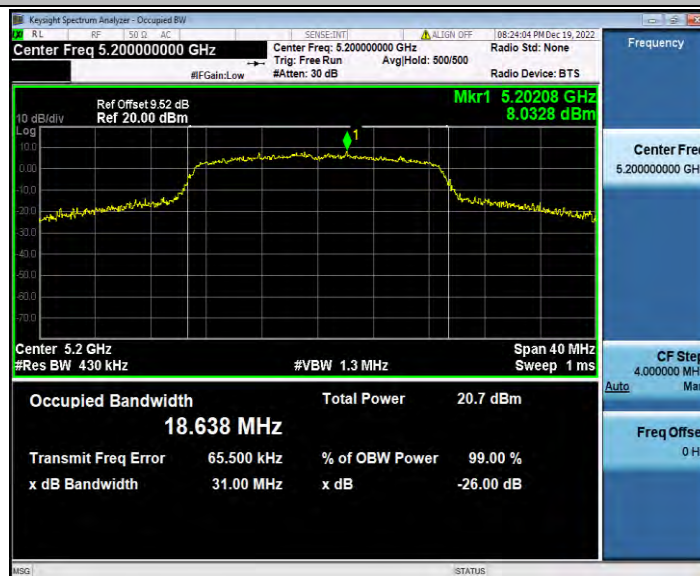
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



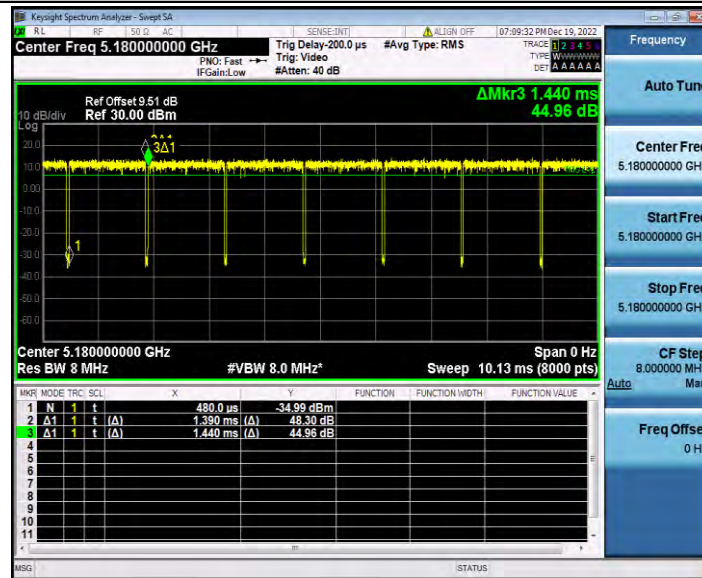
Appendix D.3: Duty Cycle

Test Result

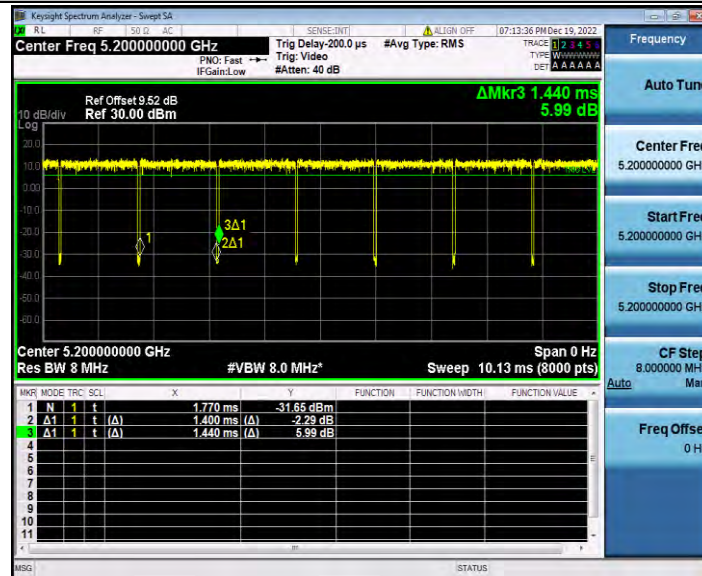
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.39	1.44	96.53
		5200	1.40	1.44	97.22
		5240	1.39	1.43	97.20
11N20SISO	Ant1	5180	1.30	1.35	96.30
		5200	1.30	1.35	96.30
		5240	1.30	1.35	96.30
11N40SISO	Ant1	5190	0.64	0.69	92.75
		5230	0.64	0.69	92.75
11AC20SISO	Ant1	5180	0.68	0.72	94.44
		5200	0.68	0.73	93.15
		5240	0.68	0.73	93.15
11AC40SISO	Ant1	5190	0.35	0.40	87.50
		5230	0.35	0.39	89.74
11AC80SISO	Ant1	5210	0.19	0.23	82.61

Test Graphs

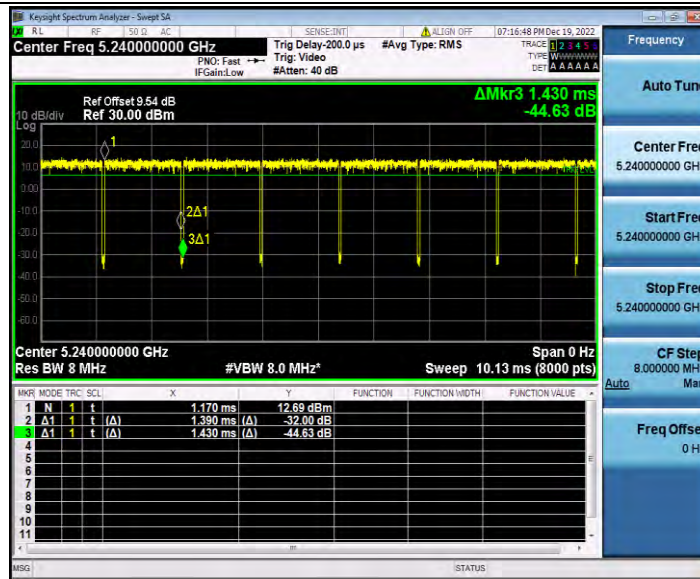
11A_Ant1_5180



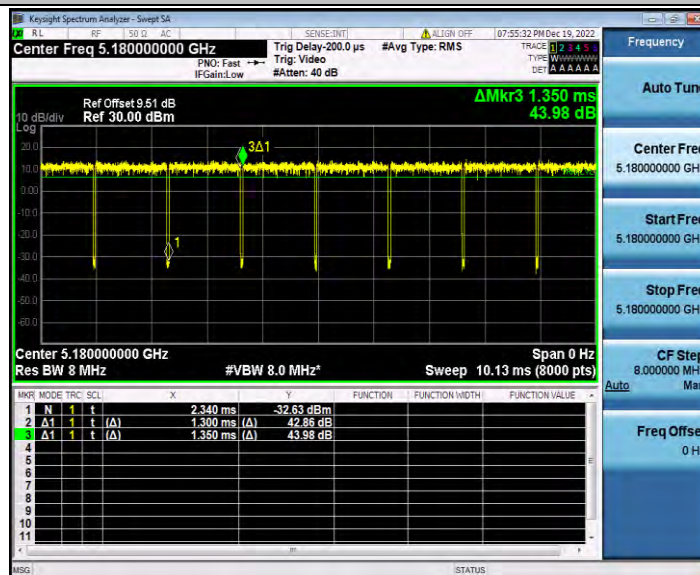
11A_Ant1_5200



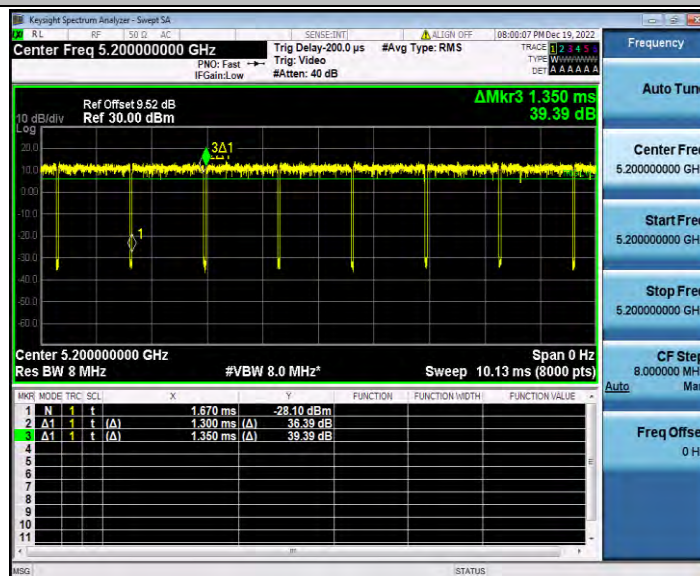
11A_Ant1_5240

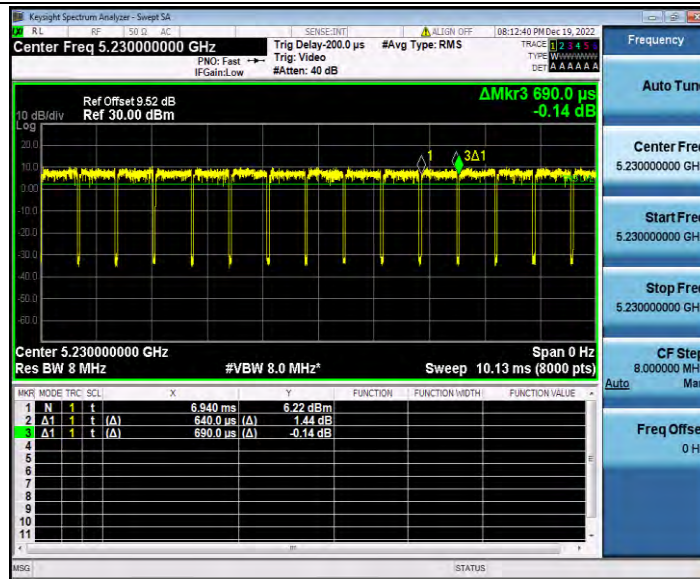


11N20SISO_Ant1_5180

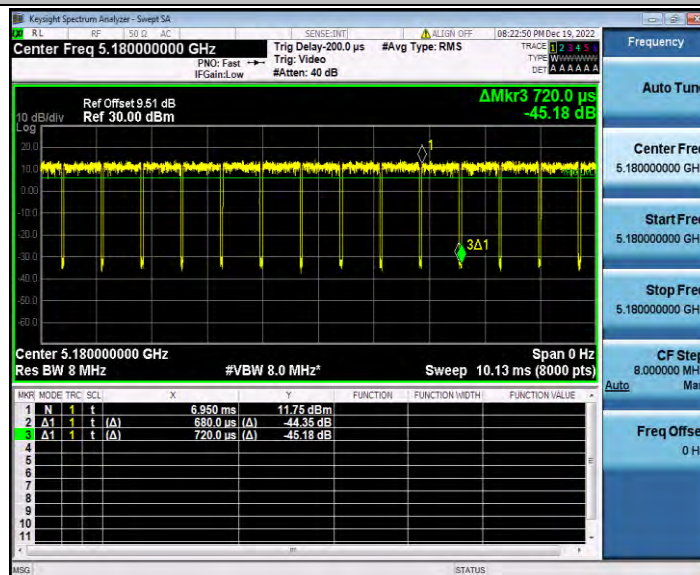


11N20SISO_Ant1_5200

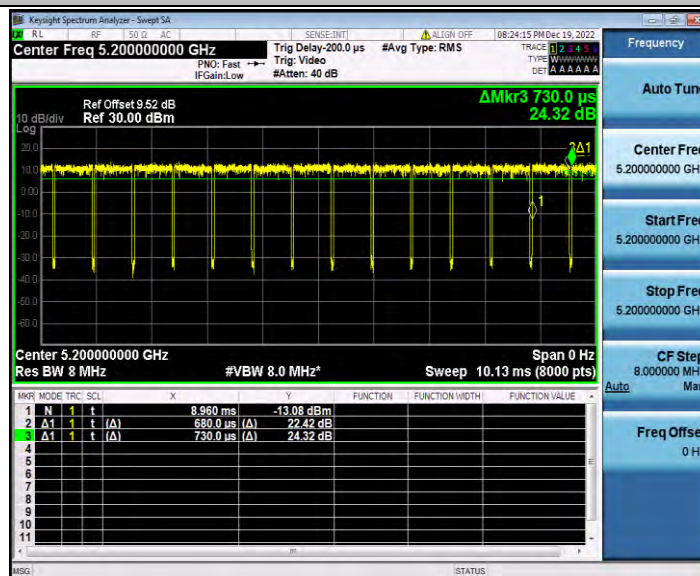




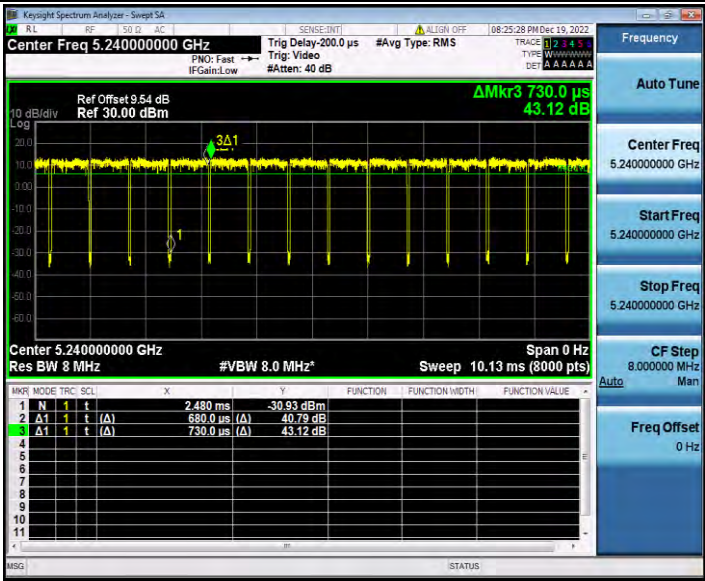
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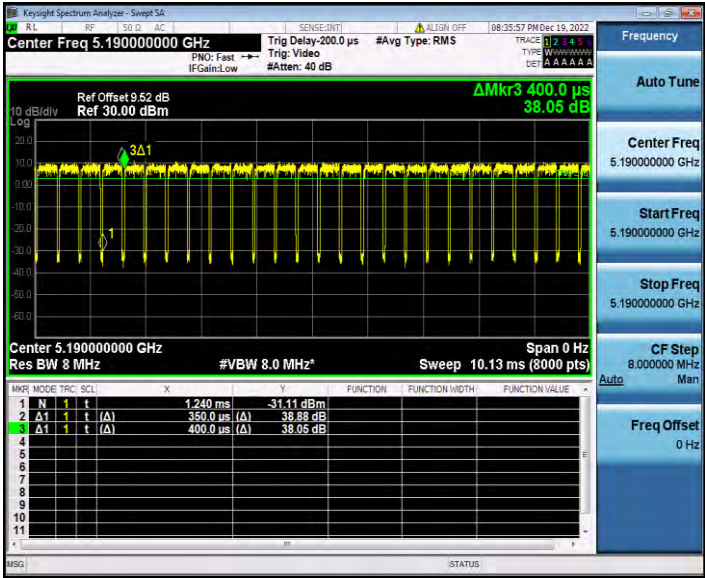
11AC20SISO_Ant1_5200



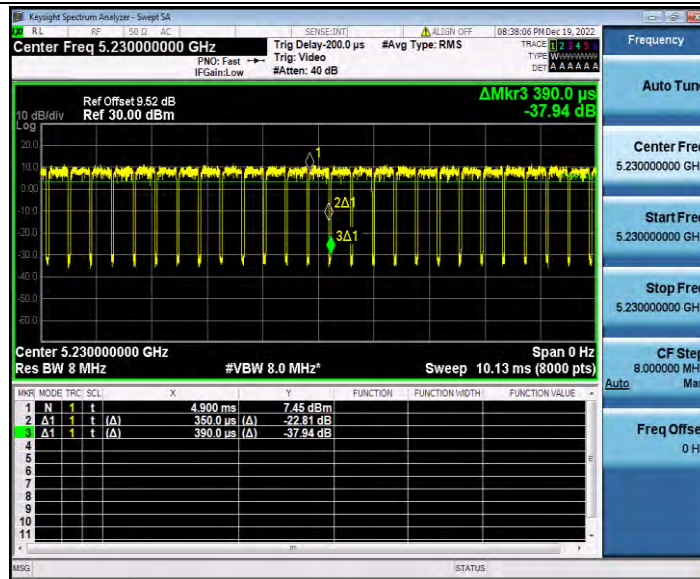
11AC20SISO_Ant1_5240



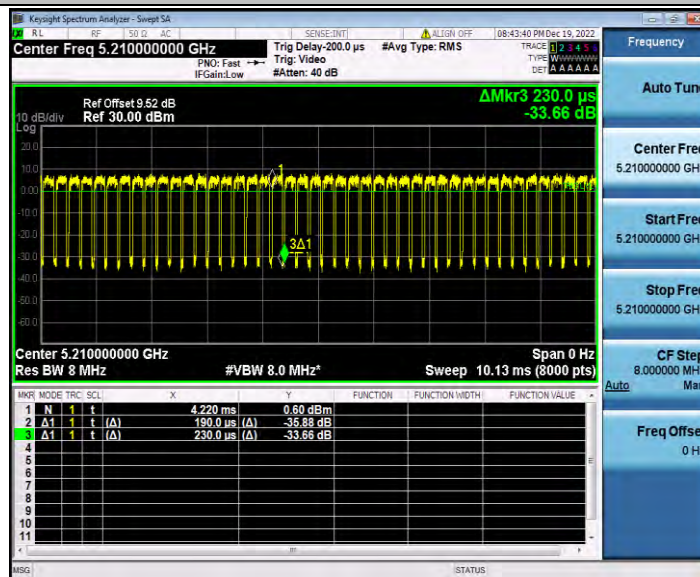
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency [MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	14.01	96.53	0.15	14.16	≤23.98	PASS
		5200	13.79	97.22	0.12	13.91	≤23.98	PASS
		5240	14.11	97.20	0.12	14.23	≤23.98	PASS
11N20SISO	Ant1	5180	13.90	96.30	0.16	14.06	≤23.98	PASS
		5200	13.72	96.30	0.16	13.88	≤23.98	PASS
		5240	13.81	96.30	0.16	13.97	≤23.98	PASS
11N40SISO	Ant1	5190	13.41	92.75	0.33	13.74	≤23.98	PASS
		5230	12.70	92.75	0.33	13.03	≤23.98	PASS
11AC20SISO	Ant1	5180	13.89	94.44	0.25	14.14	≤23.98	PASS
		5200	13.50	93.15	0.31	13.81	≤23.98	PASS
		5240	13.72	93.15	0.31	14.03	≤23.98	PASS
11AC40SISO	Ant1	5190	13.15	87.50	0.58	13.73	≤23.98	PASS
		5230	13.45	89.74	0.47	13.92	≤23.98	PASS
11AC80SISO	Ant1	5210	12.93	82.61	0.83	13.76	≤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	Ant1	5180	3.97	≤11.00	PASS
		5200	3.61	≤11.00	PASS
		5240	3.92	≤11.00	PASS
11N20SISO	Ant1	5180	3.33	≤11.00	PASS
		5200	3.02	≤11.00	PASS
		5240	3.23	≤11.00	PASS
11N40SISO	Ant1	5190	0.15	≤11.00	PASS
		5230	-0.33	≤11.00	PASS
11AC20SISO	Ant1	5180	3.33	≤11.00	PASS
		5200	3	≤11.00	PASS
		5240	3.43	≤11.00	PASS
11AC40SISO	Ant1	5190	0.2	≤11.00	PASS
		5230	-3.48	≤11.00	PASS
11AC80SISO	Ant1	5210	-2.56	≤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



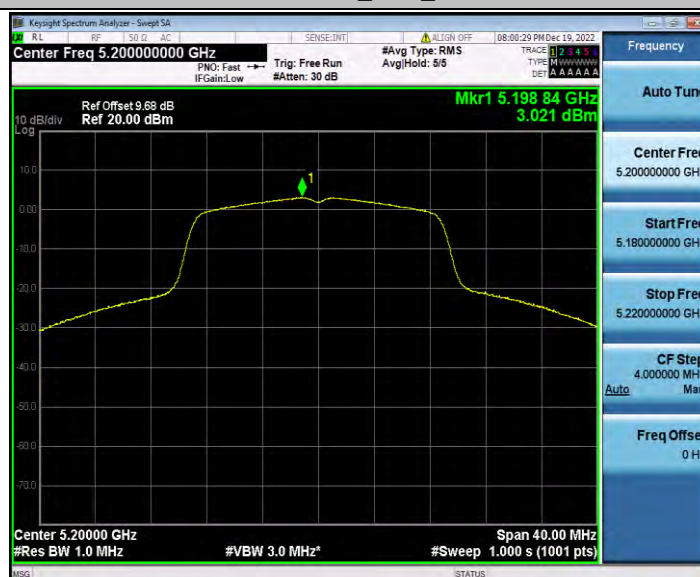
11A_Ant1_5240



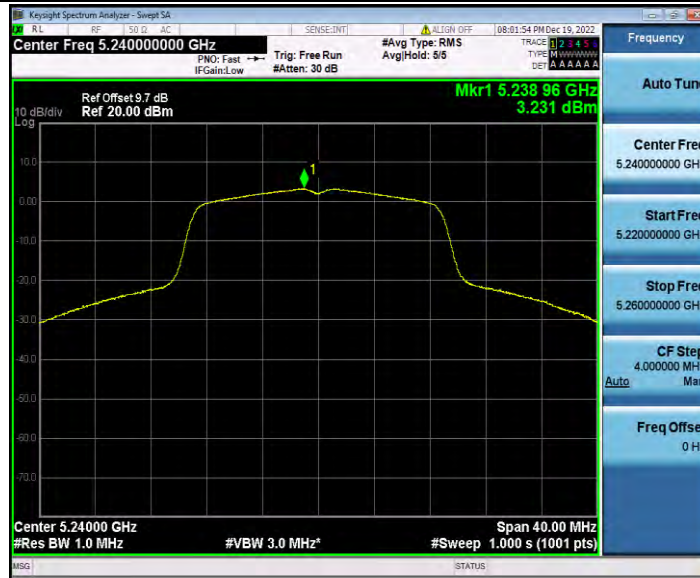
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



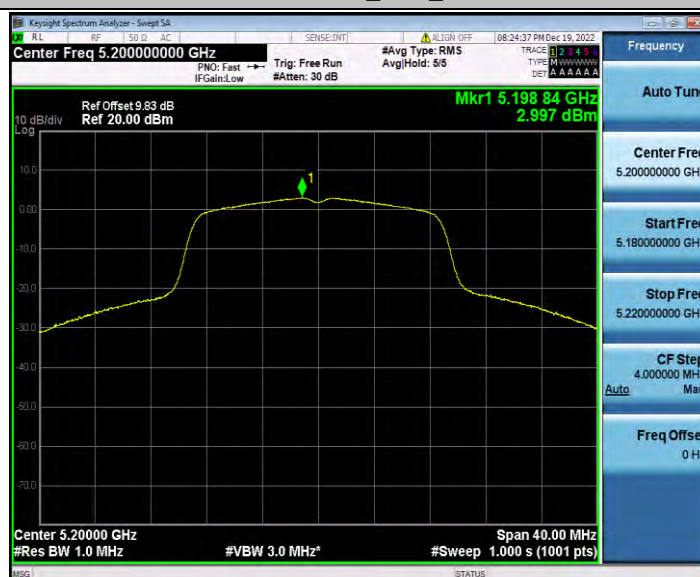
11N40SISO_Ant1_5230



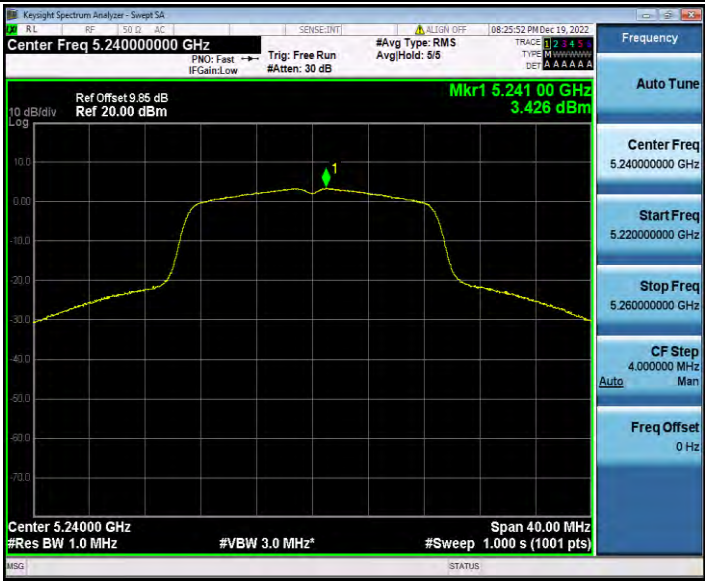
11AC20SISO_Ant1_5180



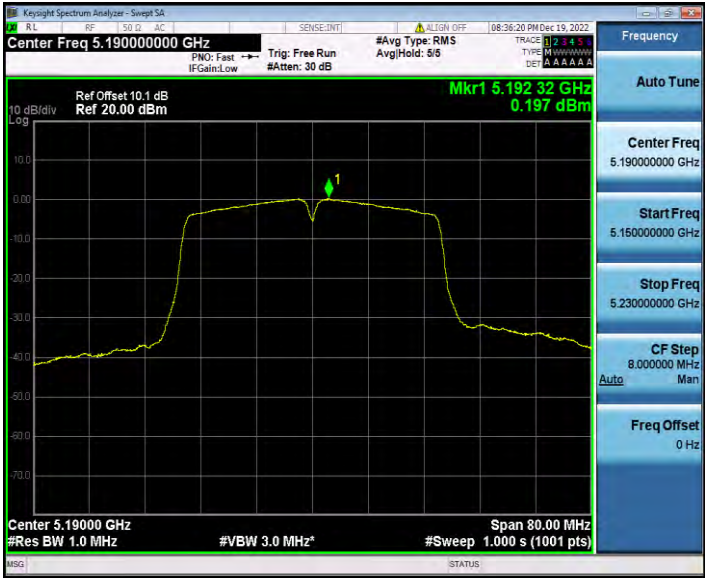
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



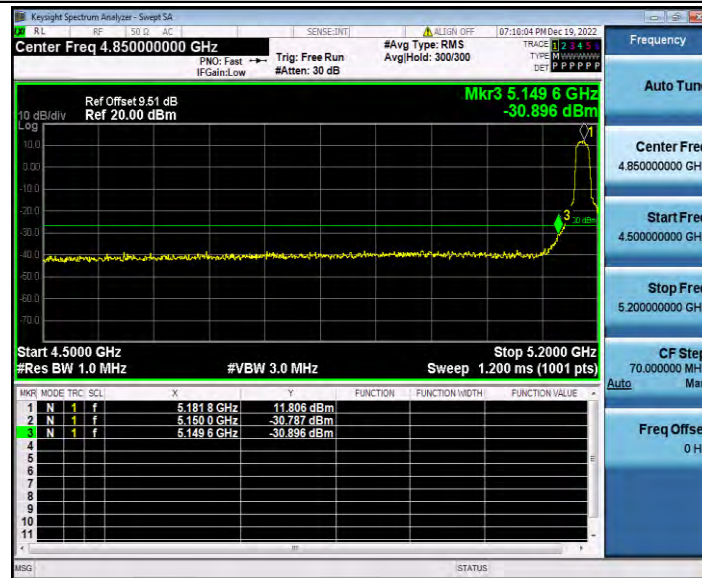
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-30.9	≤-27	PASS
		High	5240	-37.83	≤-27	PASS
11N20SISO	Ant1	Low	5180	-34.47	≤-27	PASS
		High	5240	-37.51	≤-27	PASS
11N40SISO	Ant1	Low	5190	-33.41	≤-27	PASS
		High	5230	-38.51	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-31.78	≤-27	PASS
		High	5240	-37.79	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-27.43	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-30.47	≤-27	PASS
		High	5210	-37.85	≤-27	PASS

Test Graphs B1

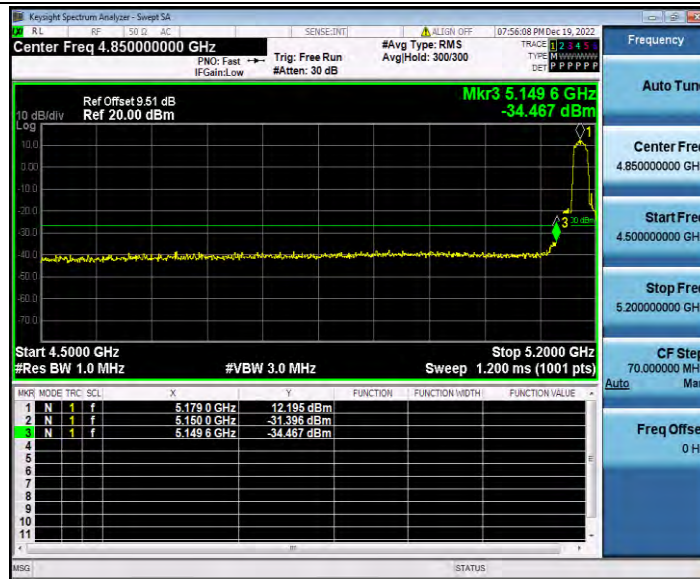
11A_Ant1_Low_5180



11A_Ant1_High_5240



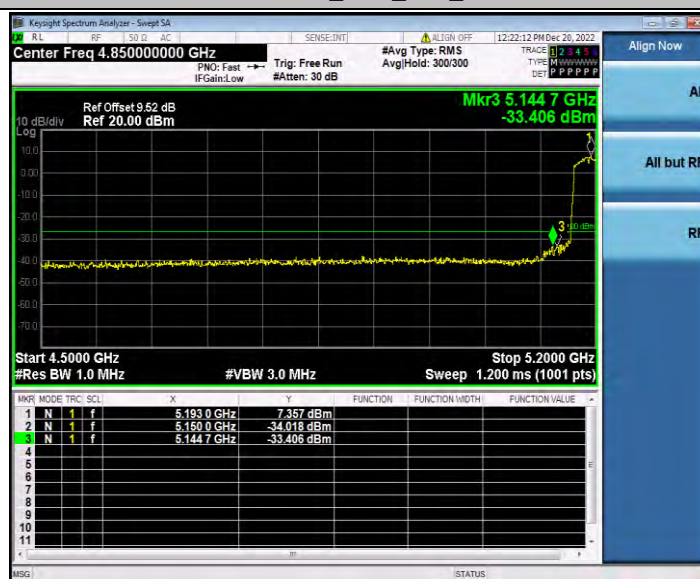
11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



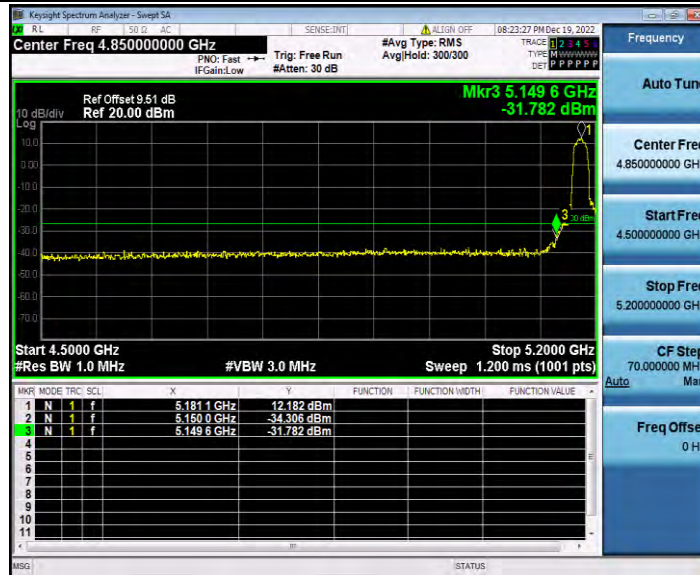
11N40SISO_Ant1_Low_5190



11N40SISO_Ant1_High_5230



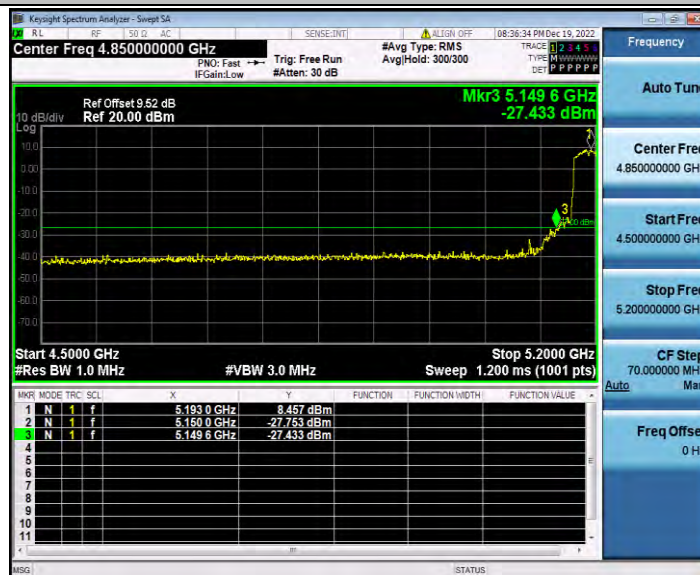
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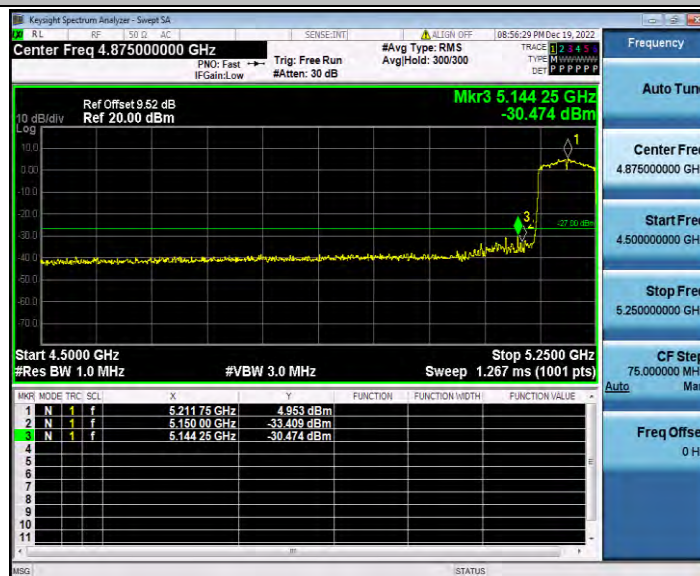
11AC20SISO_Ant1_High_5240



11AC40SISO_Ant1_Low_5190



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	5140	-44.31	≤-27	PASS
			5360~40000	24282.74	-38.34	≤-27	PASS
		5200	30~5140	4980.91	-46.72	≤-27	PASS
			5360~40000	25668.42	-37.84	≤-27	PASS
		5240	30~5140	2973.53	-46.94	≤-27	PASS
			5360~40000	26060.1	-38.1	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	904.66	-44.54	≤-27	PASS
			5360~40000	24849.71	-38.92	≤-27	PASS
		5200	30~5140	4950.42	-46.59	≤-27	PASS
			5360~40000	26009.61	-37.9	≤-27	PASS
		5240	30~5140	4973.93	-47.3	≤-27	PASS
			5360~40000	23596.75	-38.02	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5139.15	-40.21	≤-27	PASS
			5360~40000	24253.16	-38.29	≤-27	PASS
		5230	30~5140	1763.99	-45.54	≤-27	PASS
			5360~40000	24284.18	-37.84	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5134.89	-46.46	≤-27	PASS
			5360~40000	24819.41	-37.71	≤-27	PASS
		5200	30~5140	2616	-46.04	≤-27	PASS
			5360~40000	24214.93	-37.81	≤-27	PASS
		5240	30~5140	3023.95	-47.19	≤-27	PASS
			5360~40000	23572.22	-38.21	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5135.23	-41.17	≤-27	PASS
			5360~40000	24219.98	-38.35	≤-27	PASS
		5230	30~5140	4969.5	-47.14	≤-27	PASS
			5360~40000	26079.58	-37.85	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5123.31	-37.78	≤-27	PASS
			5360~40000	25630.91	-38.14	≤-27	PASS

Test Graphs

11A_Ant1_5180_30~5140



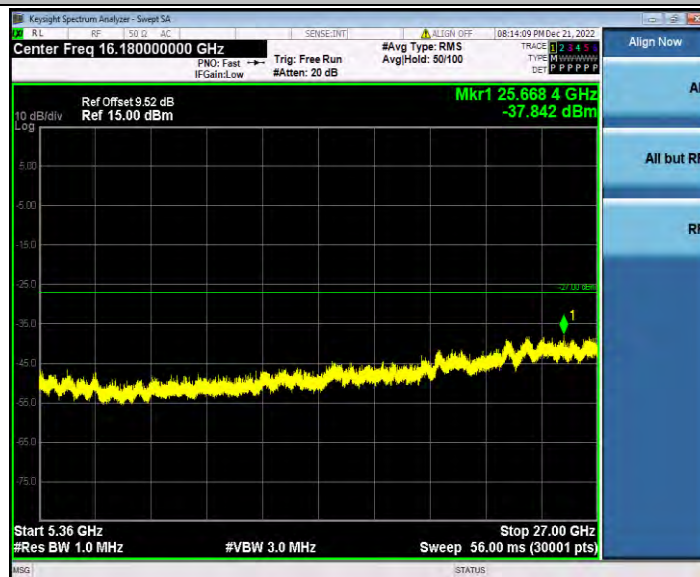
11A_Ant1_5180_5360~40000



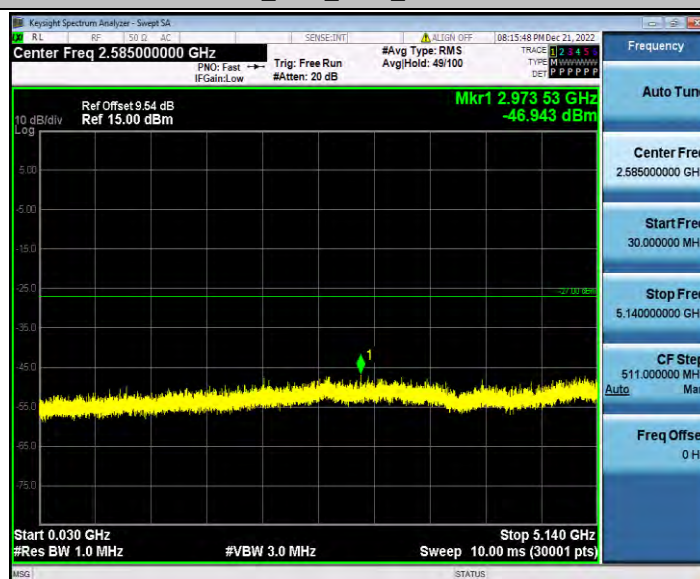
11A_Ant1_5200_30~5140



11A_Ant1_5200_5360~40000



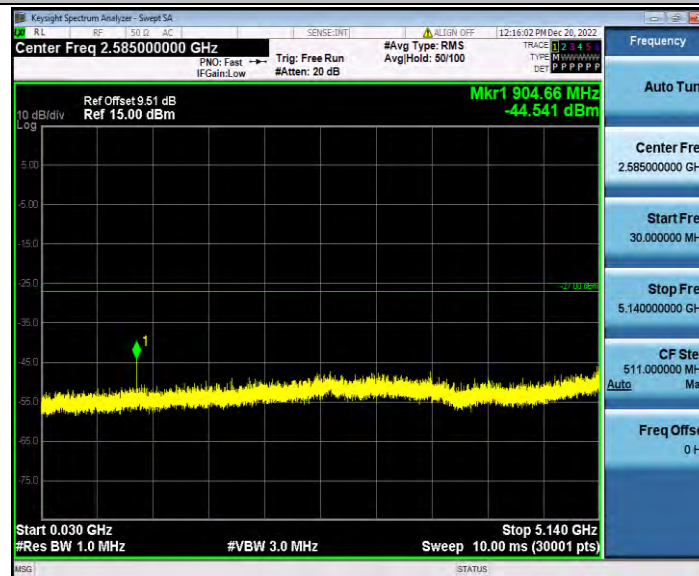
11A_Ant1_5240_30~5140



11A_Ant1_5240_5360~40000



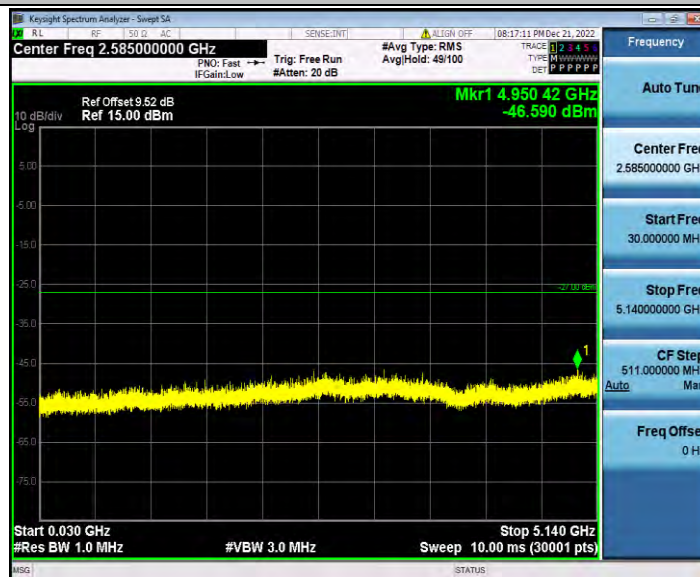
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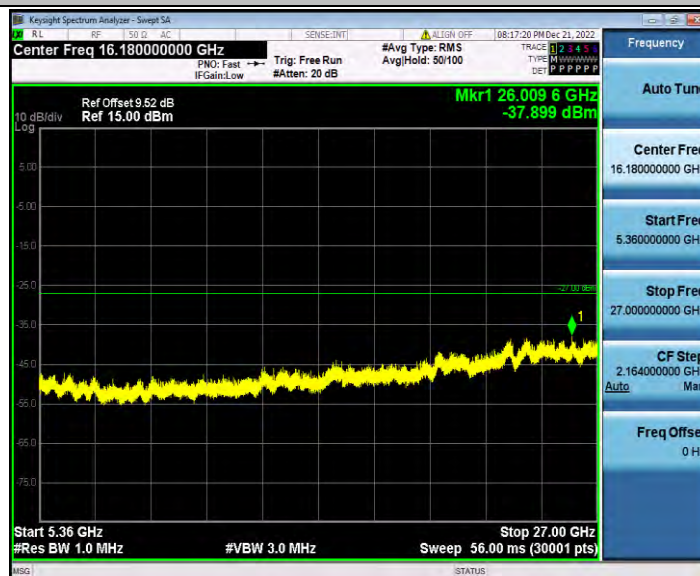
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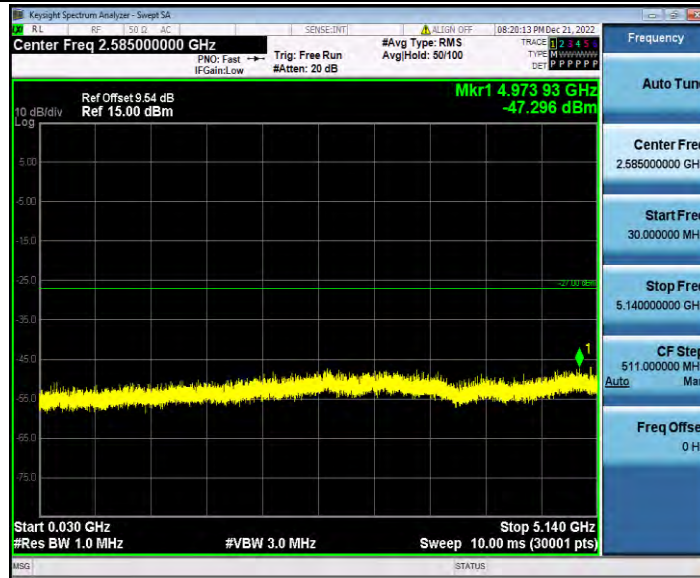
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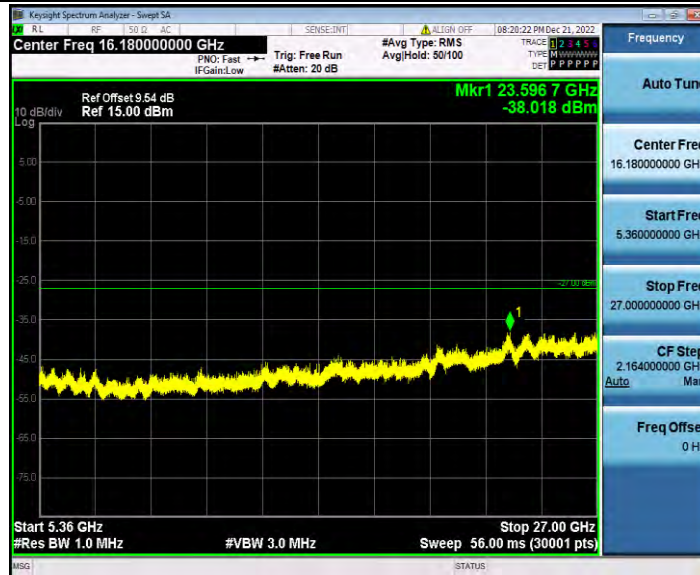
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11N20SISO_Ant1_5240_30~5140



11N20SISO_Ant1_5240_5360~40000



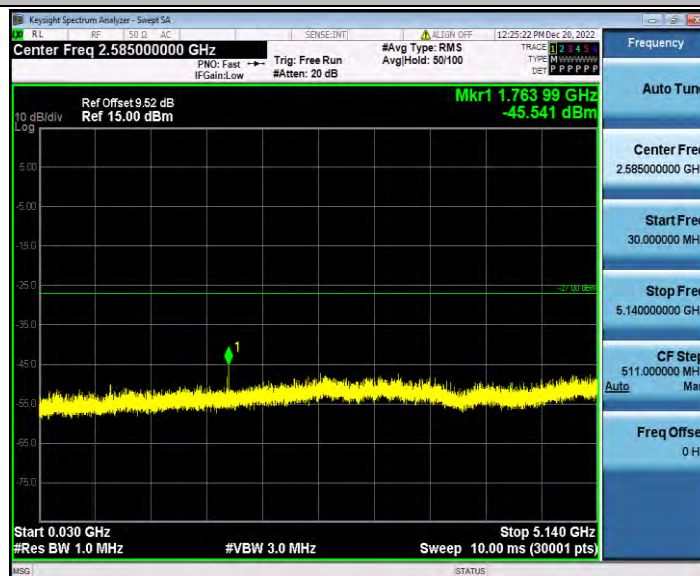
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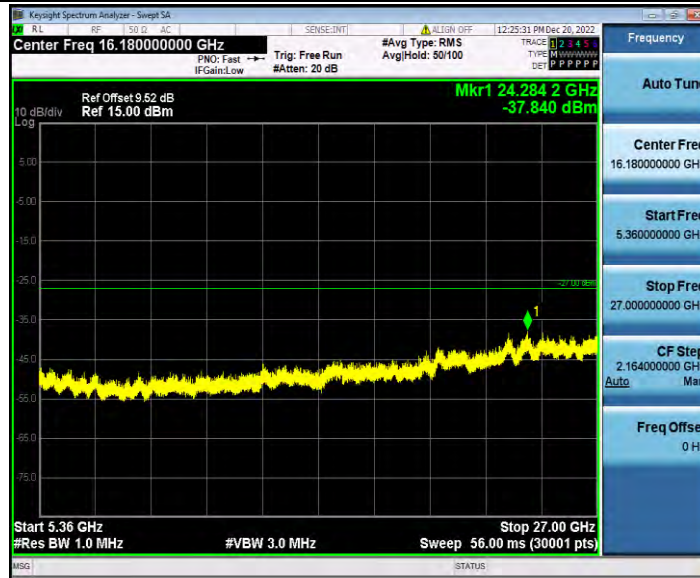
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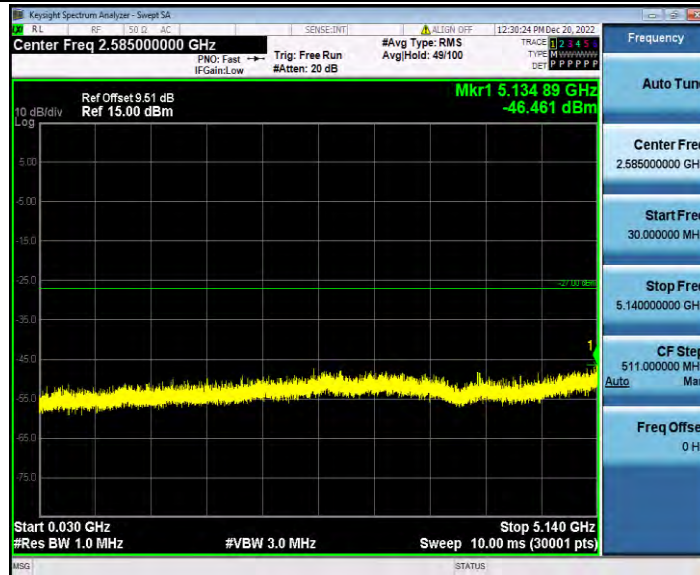
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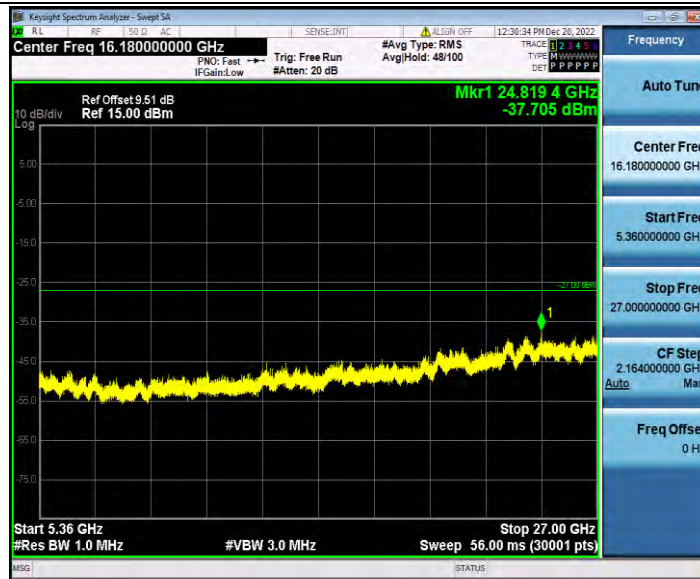
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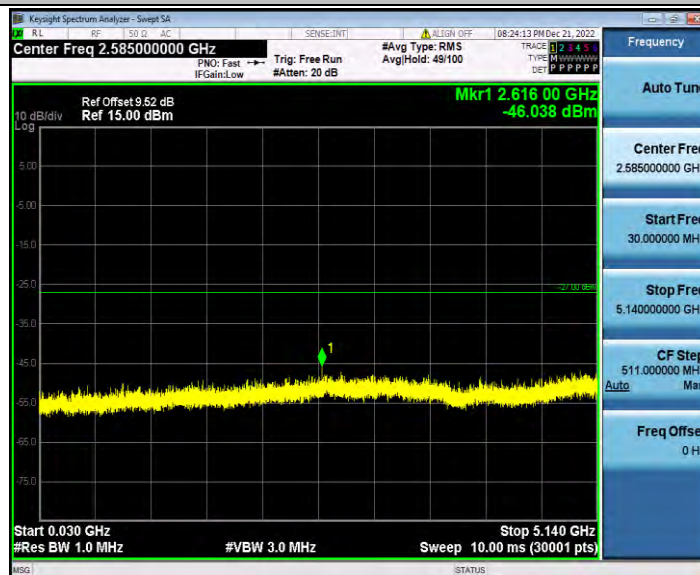
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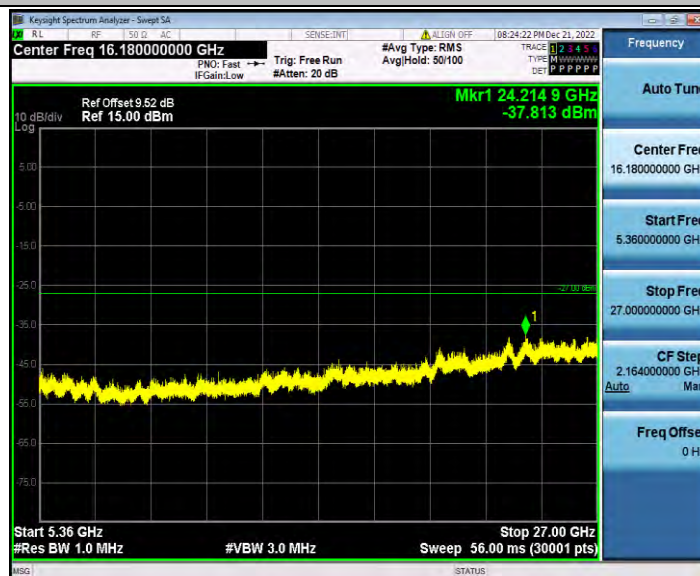
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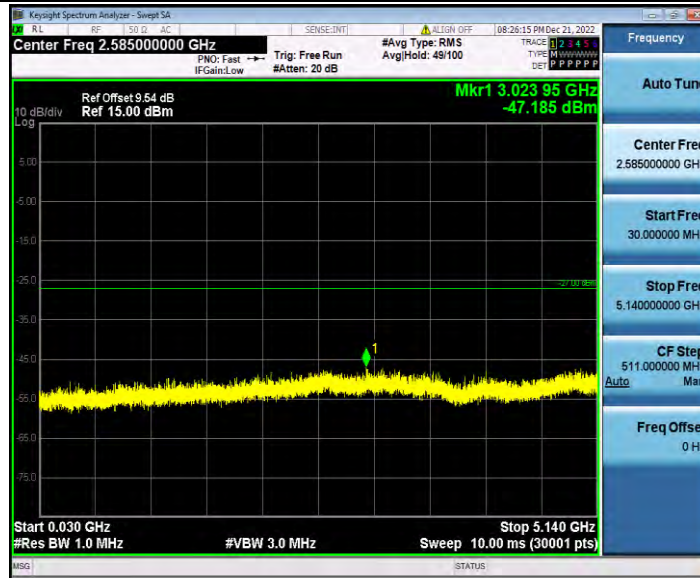
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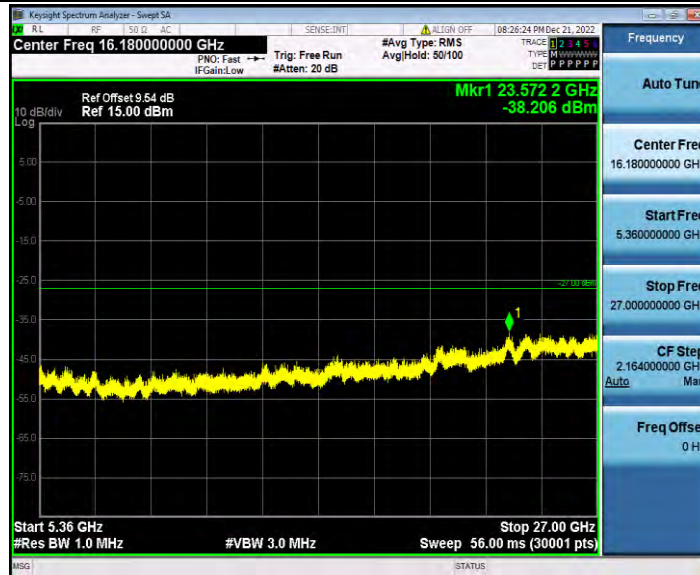
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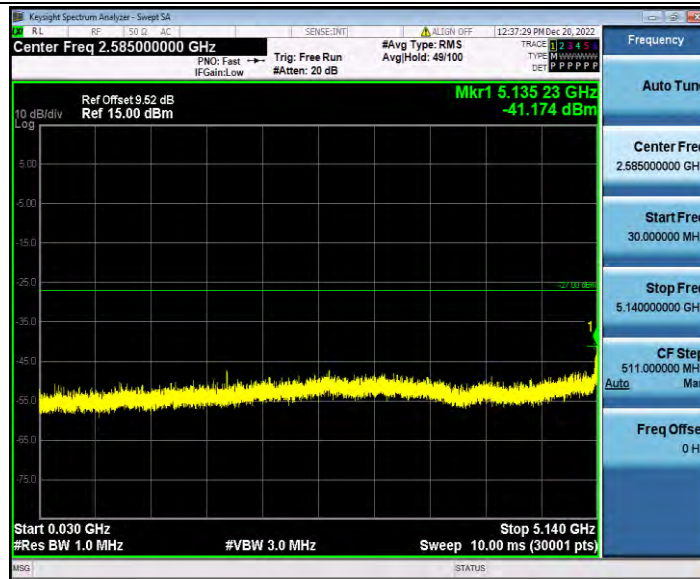
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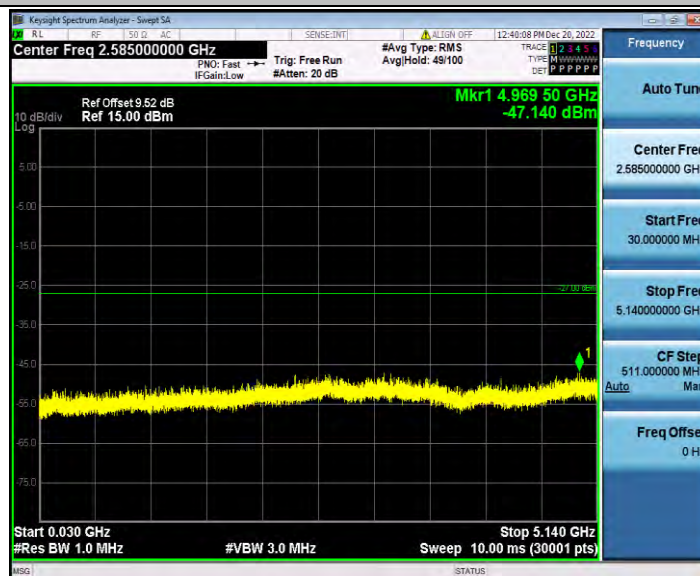
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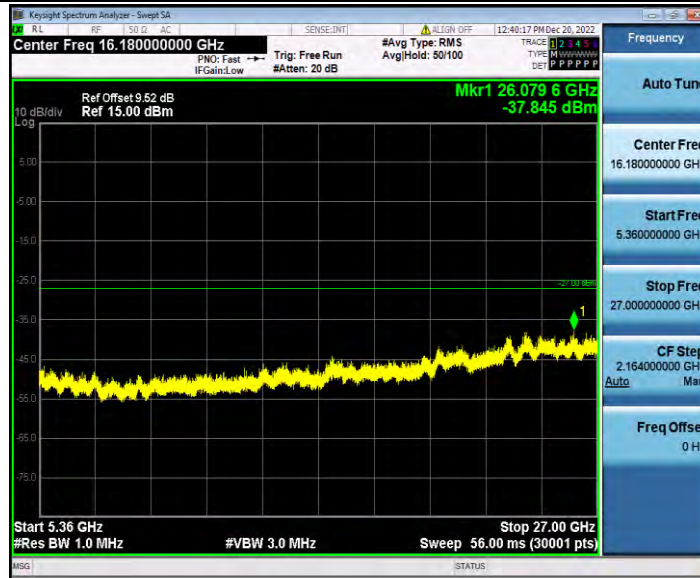
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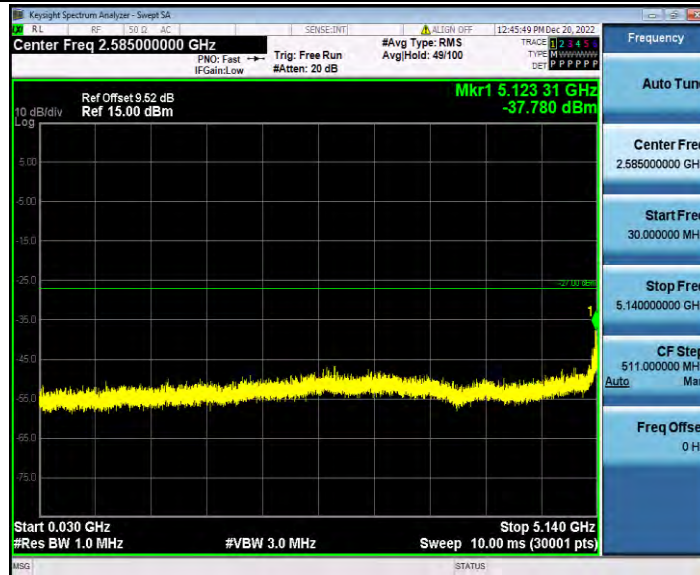
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11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_5360~40000



11AC80SISO_Ant1_5210_5360~40000

