

Case No. : GTS20211218008-1-36	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa	
Test Date: 2022.8.3	Test Engineer: Jenny zeng

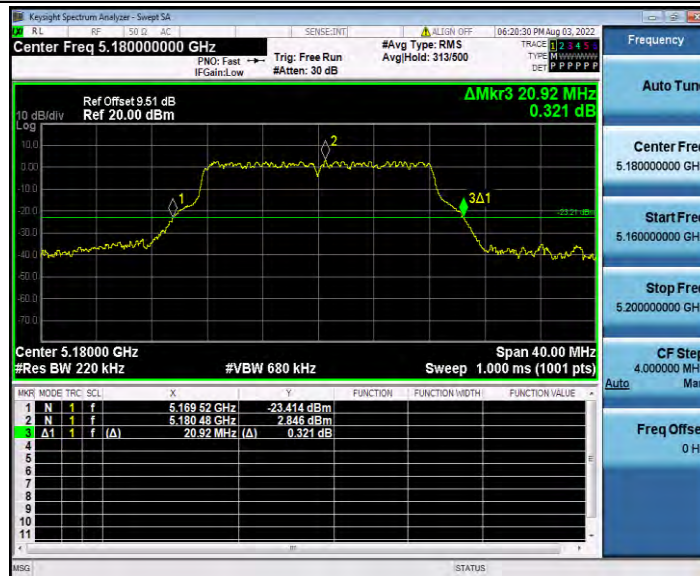
Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.920	5169.520	5190.440	---	---
		5200	21.040	5189.520	5210.560	---	---
		5240	20.960	5229.520	5250.480	---	---
11N20SISO	Ant1	5180	21.160	5169.480	5190.640	---	---
		5200	21.400	5189.280	5210.680	---	---
		5240	21.160	5229.360	5250.520	---	---
11N40SISO	Ant1	5190	39.520	5170.320	5209.840	---	---
		5230	39.360	5210.320	5249.680	---	---
11AC20SISO	Ant1	5180	21.440	5169.240	5190.680	---	---
		5200	21.400	5189.200	5210.600	---	---
		5240	21.440	5229.240	5250.680	---	---
11AC40SISO	Ant1	5190	40.320	5169.840	5210.160	---	---
		5230	40.480	5209.680	5250.160	---	---
11AC80SISO	Ant1	5210	81.440	5169.200	5250.640	---	---

Test Graphs

11A_Ant1_5180



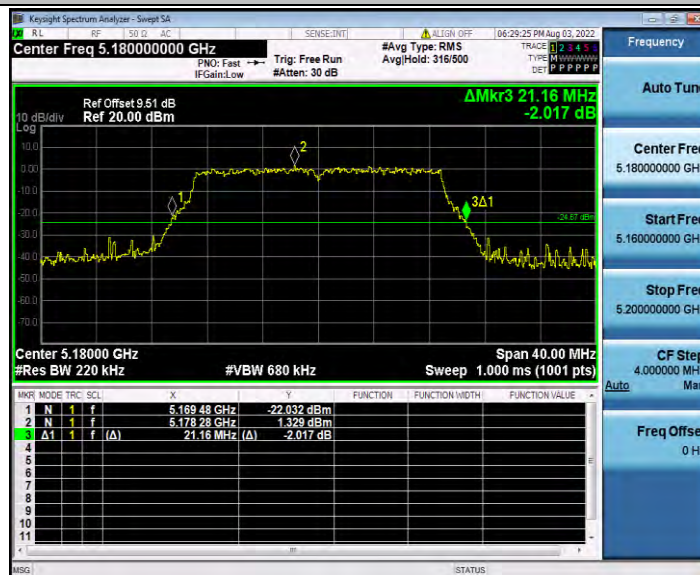
11A_Ant1_5200



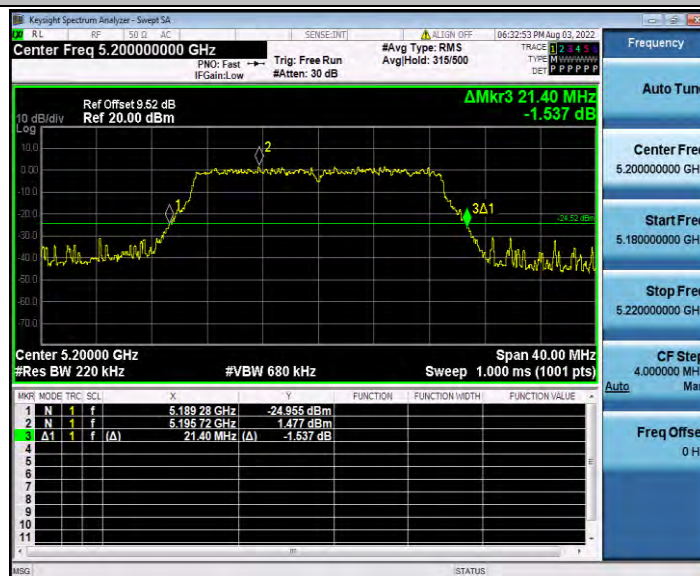
11A_Ant1_5240



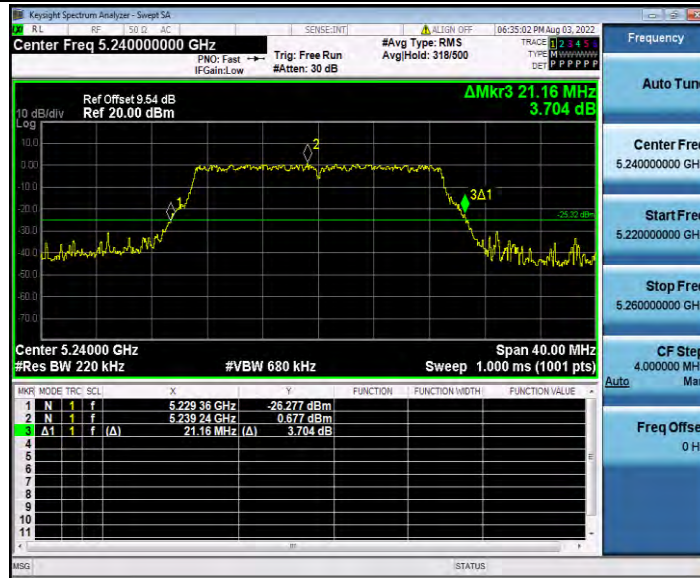
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



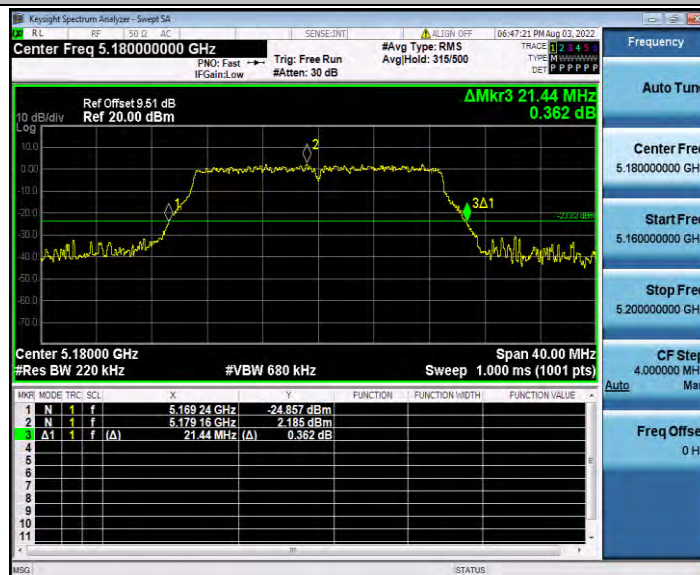
11N40SISO_Ant1_5190



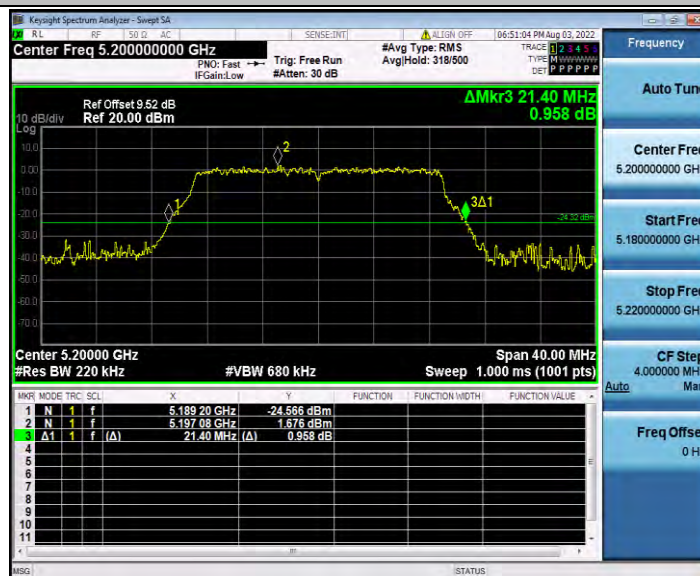
11N40SISO_Ant1_5230



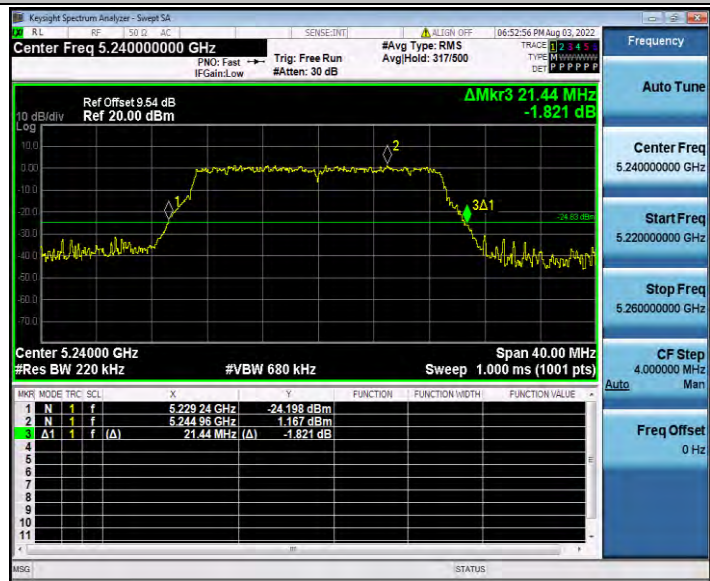
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



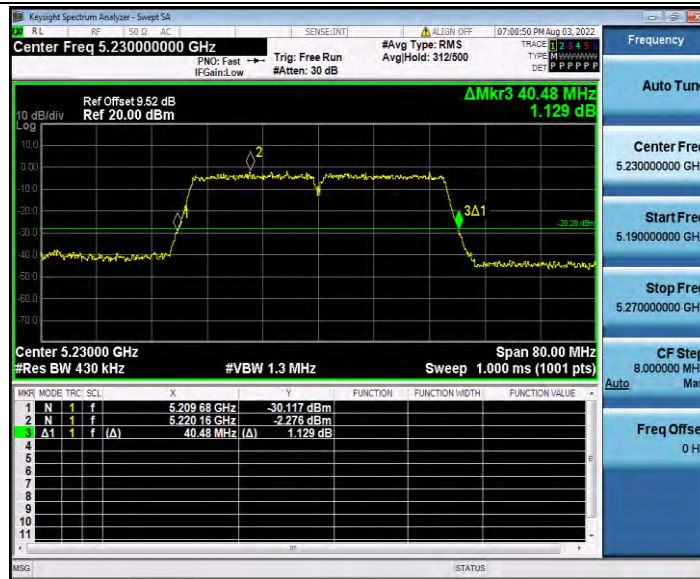
11AC20SISO_Ant1_5240



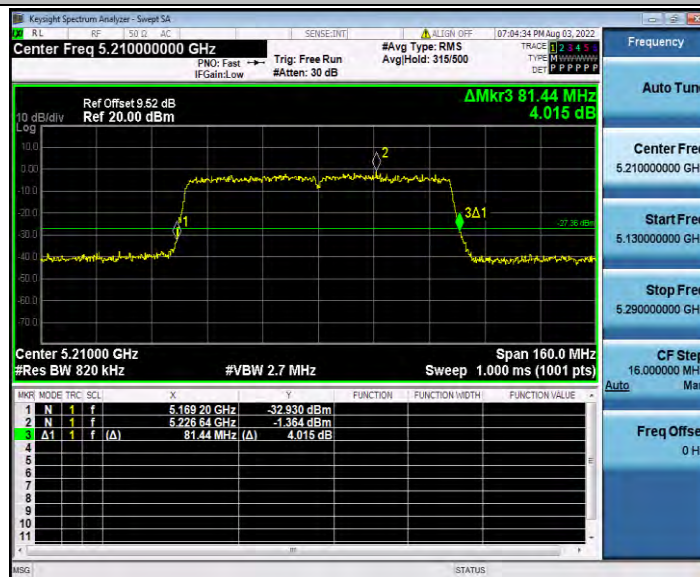
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



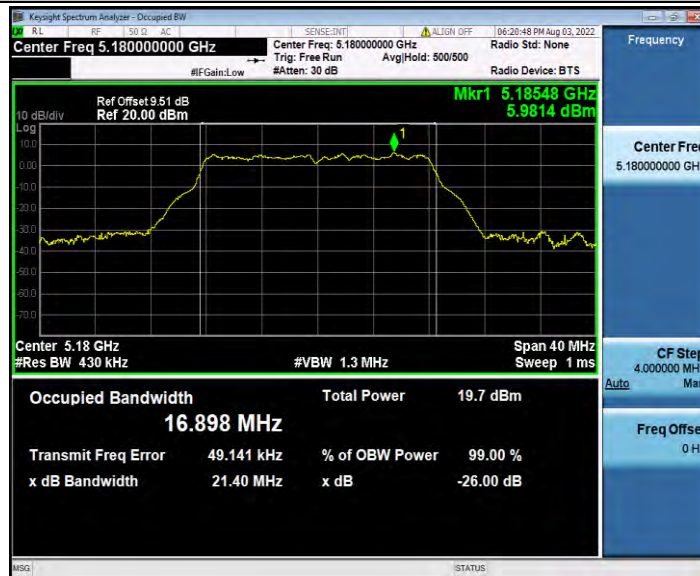
Appendix D.2: Occupied channel bandwidth

Test Result

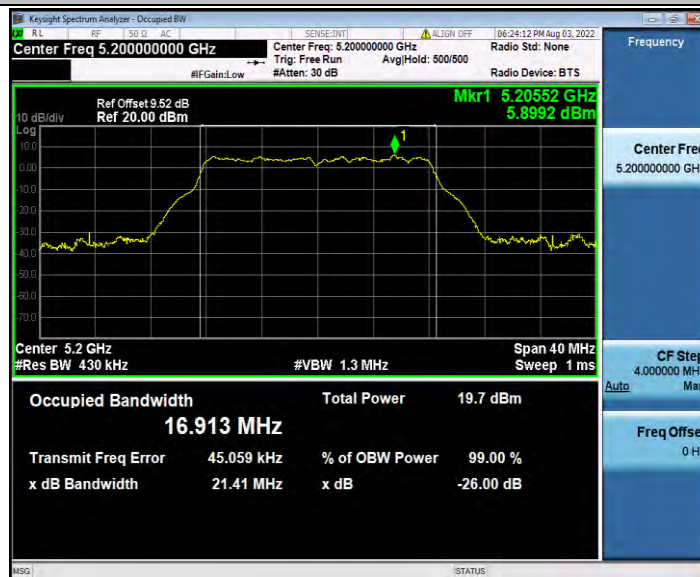
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.898	5171.600	5188.498	---	---
		5200	16.913	5191.589	5208.502	---	---
		5240	16.905	5231.576	5248.481	---	---
11N20SISO	Ant1	5180	18.167	5170.924	5189.091	---	---
		5200	18.259	5190.881	5209.140	---	---
		5240	18.251	5230.851	5249.102	---	---
11N40SISO	Ant1	5190	36.598	5171.734	5208.332	---	---
		5230	36.542	5211.790	5248.332	---	---
11AC20SISO	Ant1	5180	18.243	5170.817	5189.060	---	---
		5200	18.329	5190.790	5209.119	---	---
		5240	18.285	5230.780	5249.065	---	---
11AC40SISO	Ant1	5190	36.806	5171.560	5208.366	---	---
		5230	36.811	5211.523	5248.334	---	---
11AC80SISO	Ant1	5210	75.877	5172.109	5247.986	---	---

Test Graphs

11A_Ant1_5180



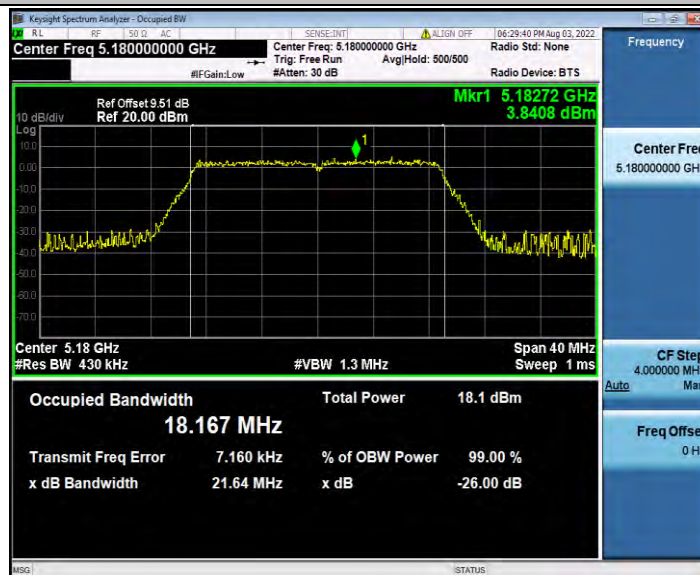
11A_Ant1_5200



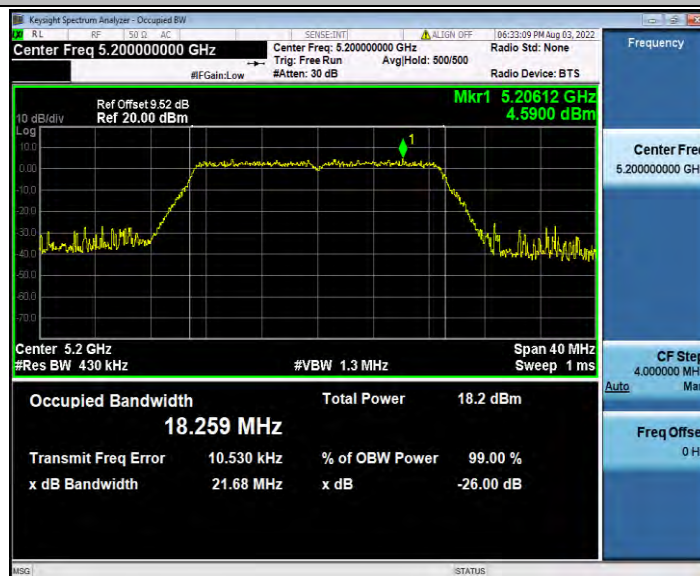
11A_Ant1_5240



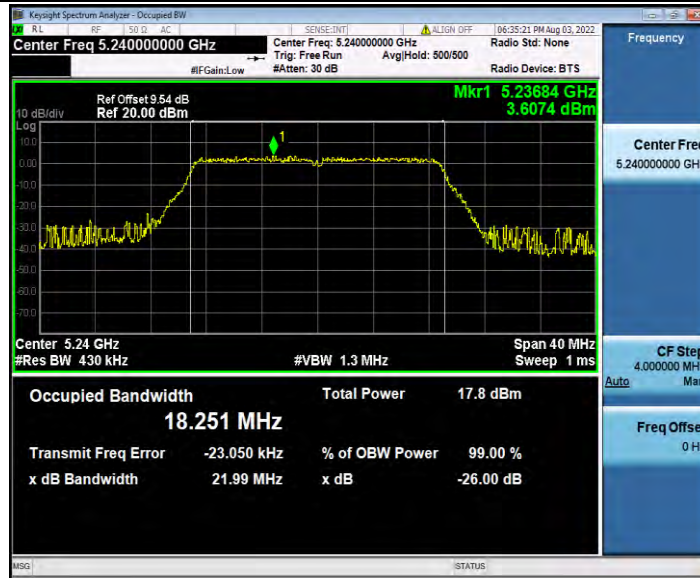
11N20SISO_Ant1_5180



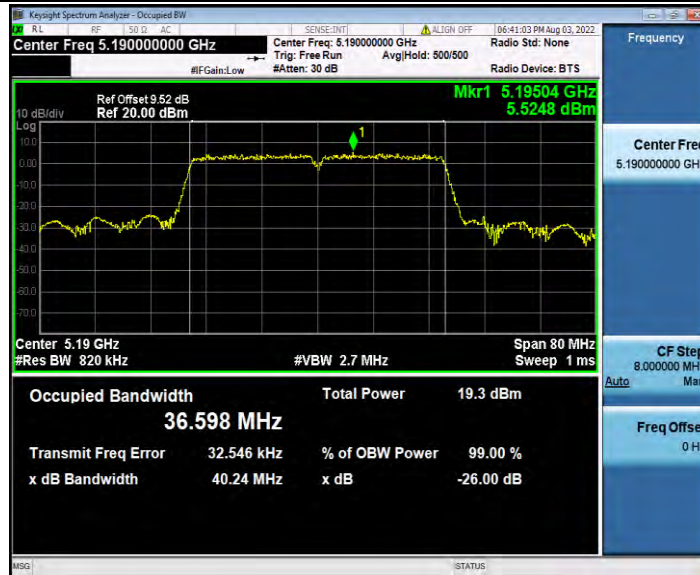
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



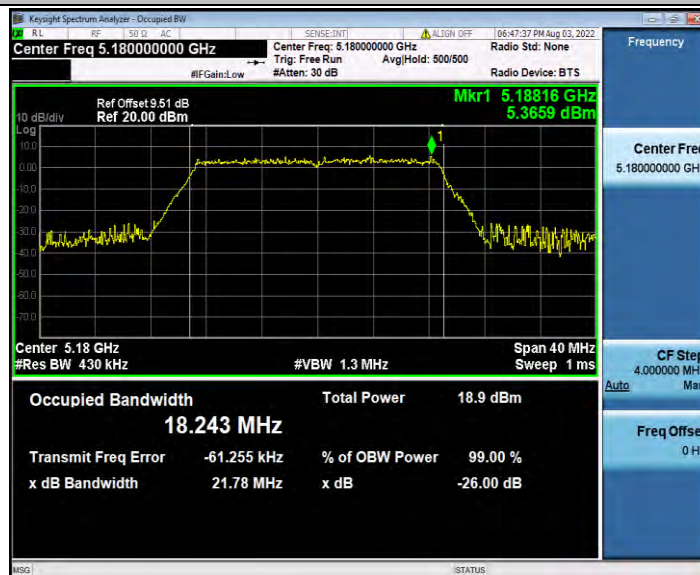
11N40SISO_Ant1_5190



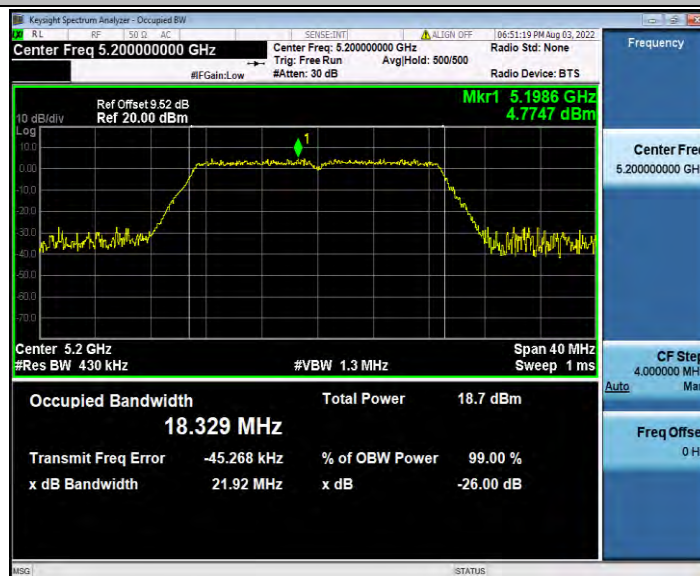
11N40SISO_Ant1_5230



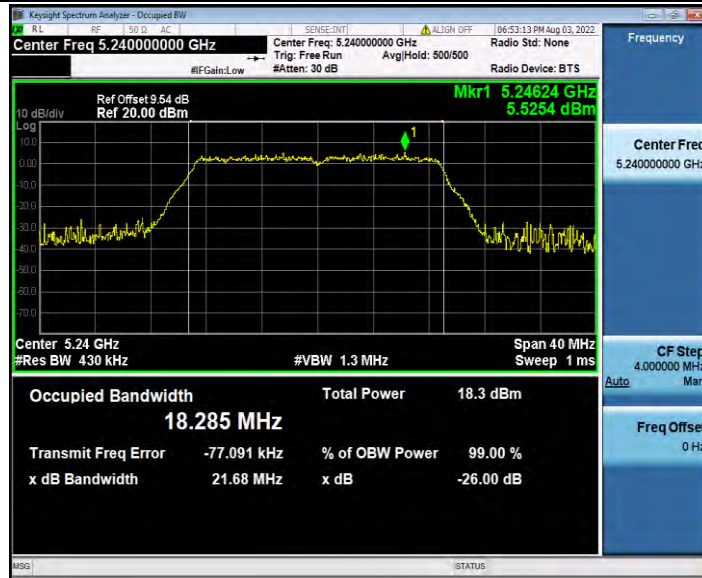
11AC20SISO_Ant1_5180



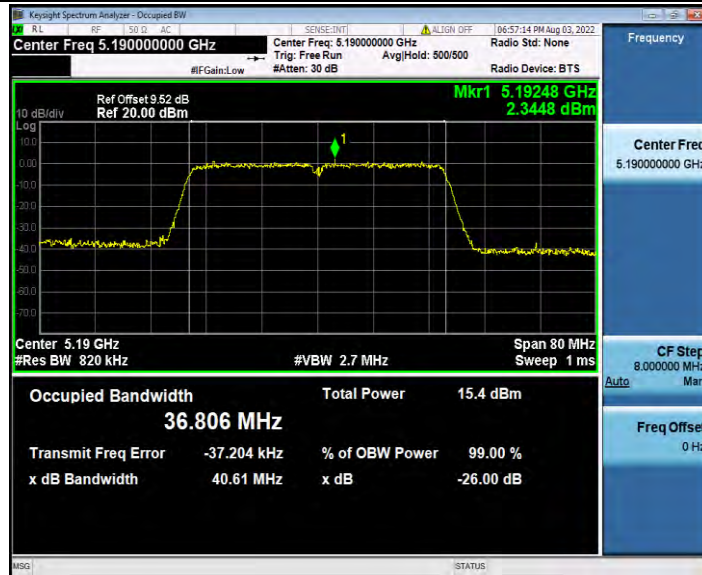
11AC20SISO_Ant1_5200



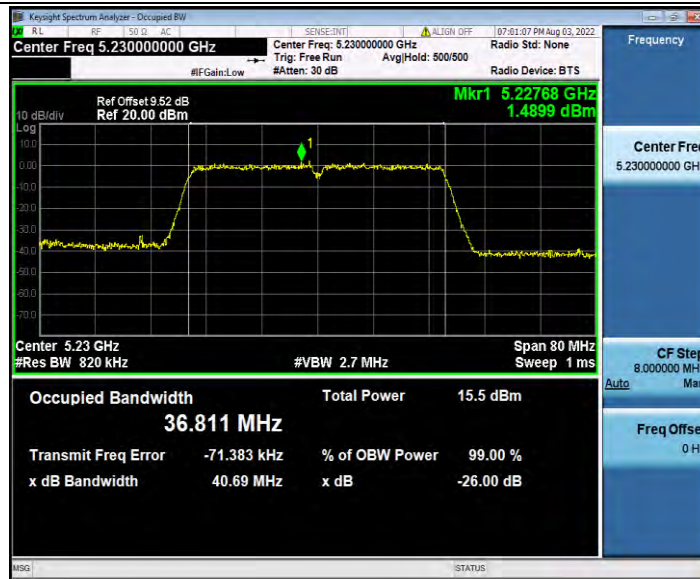
11AC20SISO_Ant1_5240



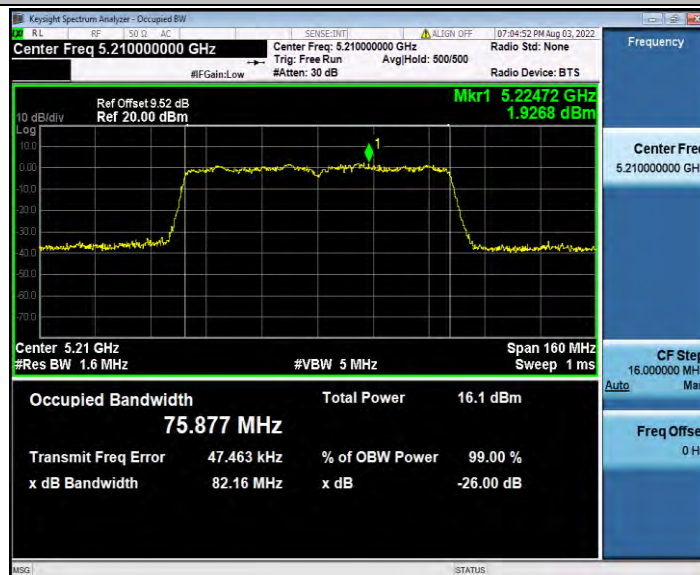
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



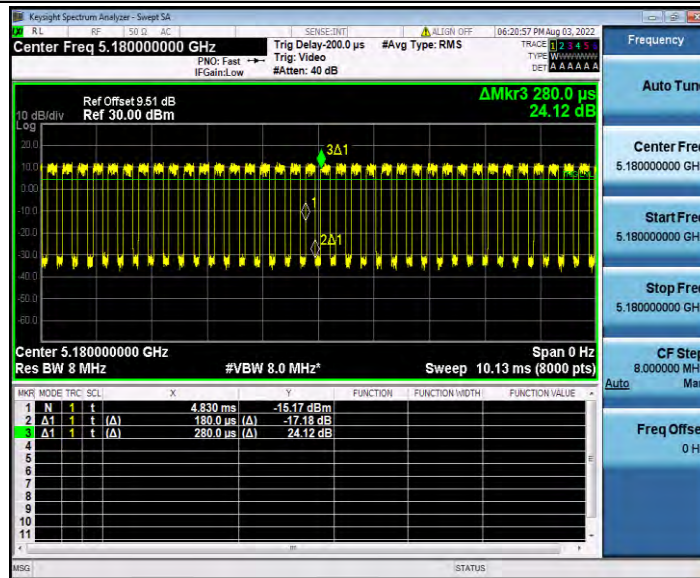
Appendix D.3: Duty Cycle

Test Result

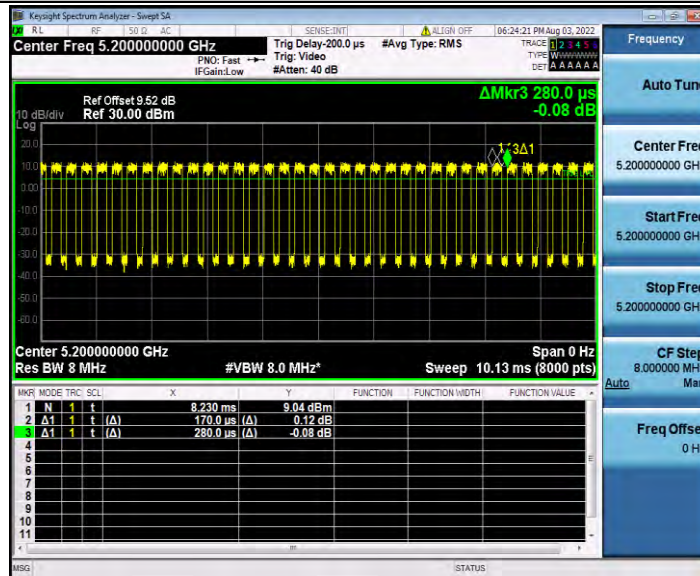
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	0.18	0.28	64.29
		5200	0.17	0.28	60.71
		5240	0.18	0.28	64.29
11N20SISO	Ant1	5180	0.16	0.26	61.54
		5200	0.16	0.26	61.54
		5240	0.17	0.27	62.96
11N40SISO	Ant1	5190	0.10	0.20	50.00
		5230	0.10	0.21	47.62
11AC20SISO	Ant1	5180	0.15	0.25	60.00
		5200	0.15	0.25	60.00
		5240	0.14	0.24	58.33
11AC40SISO	Ant1	5190	0.09	0.19	47.37
		5230	0.09	0.19	47.37
11AC80SISO	Ant1	5210	0.07	0.17	41.18

Test Graphs

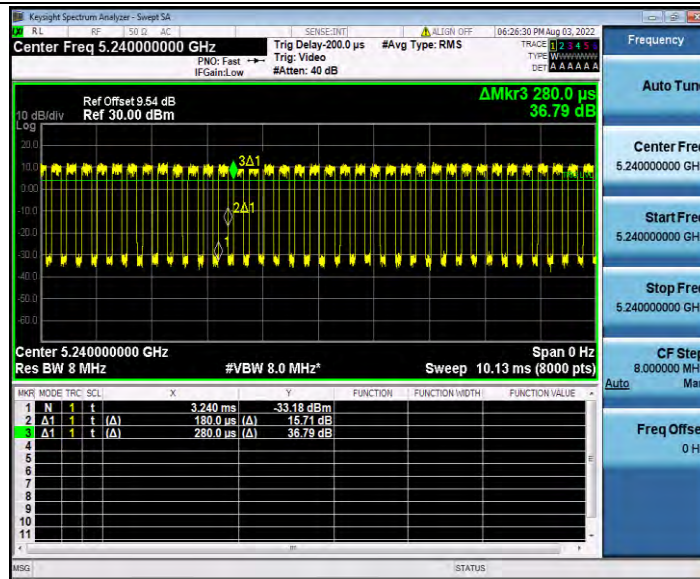
11A_Ant1_5180



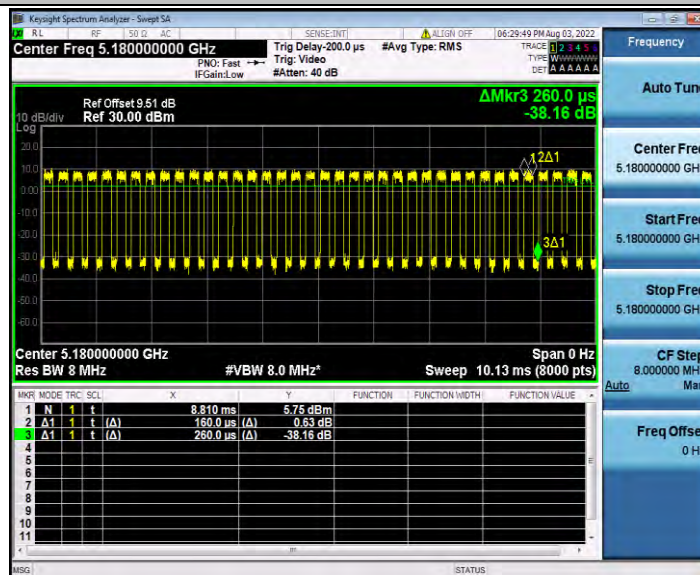
11A_Ant1_5200



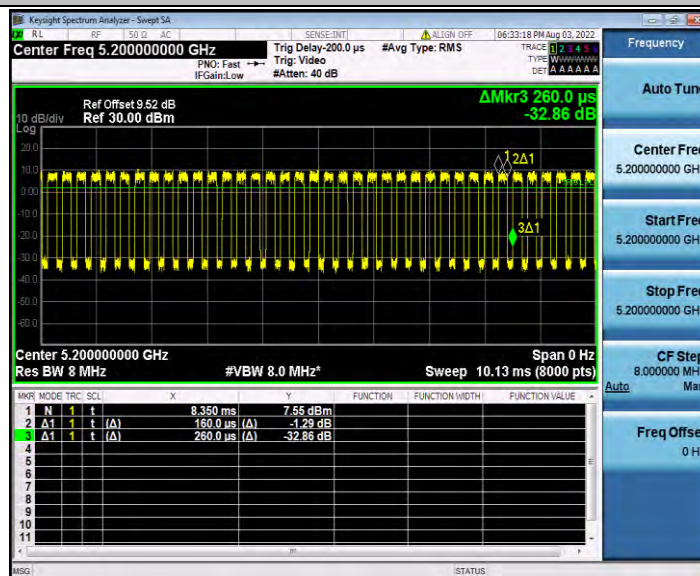
11A_Ant1_5240



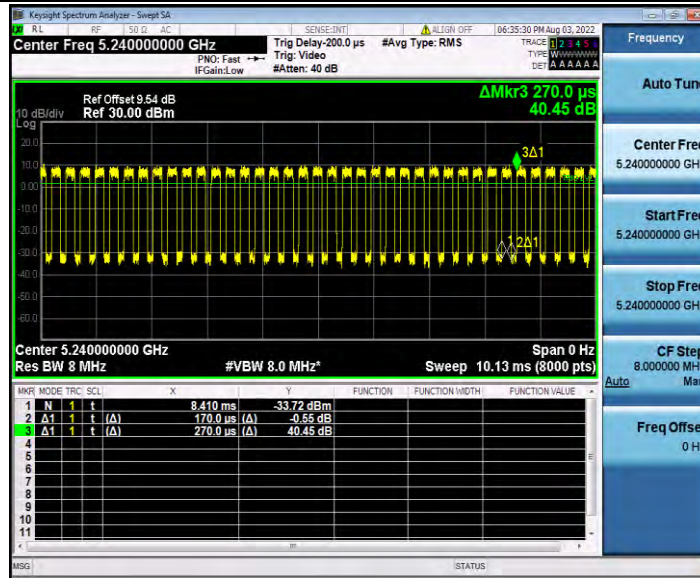
11N20SISO_Ant1_5180



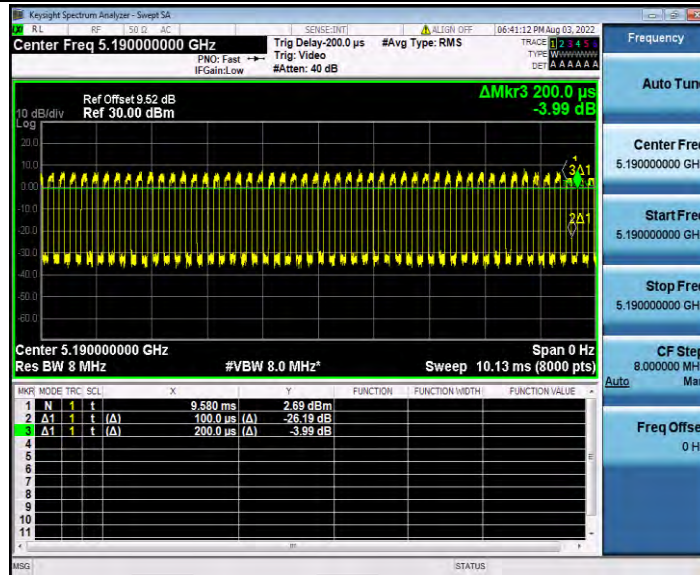
11N20SISO_Ant1_5200



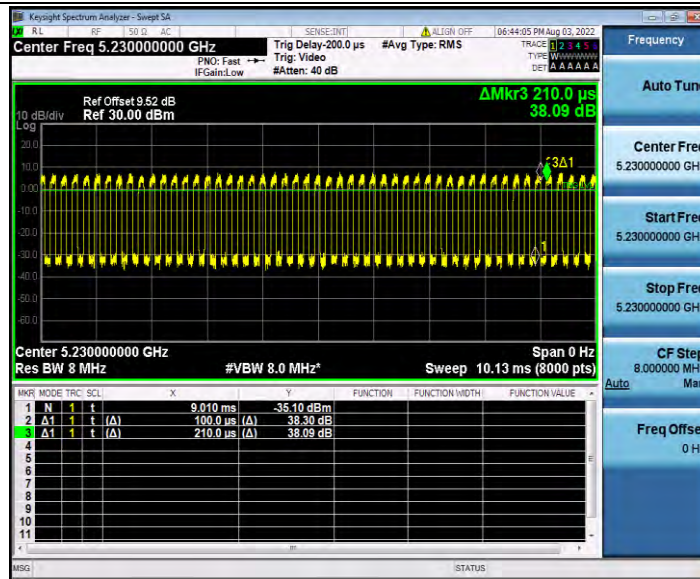
11N20SISO_Ant1_5240



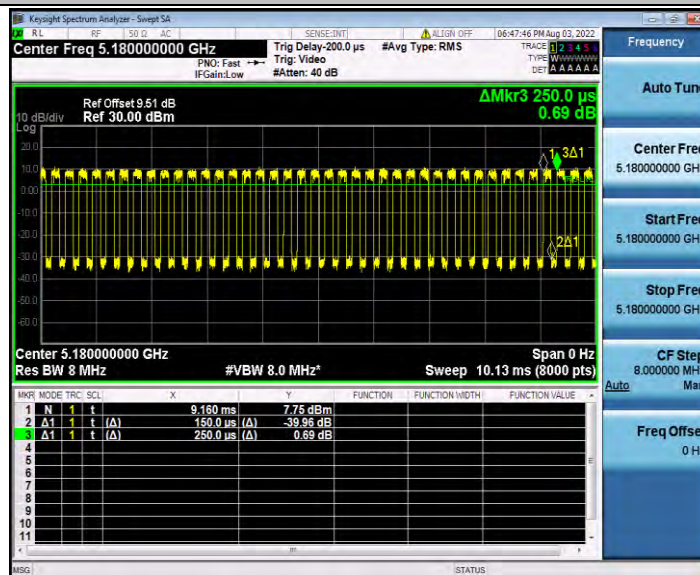
11N40SISO_Ant1_5190



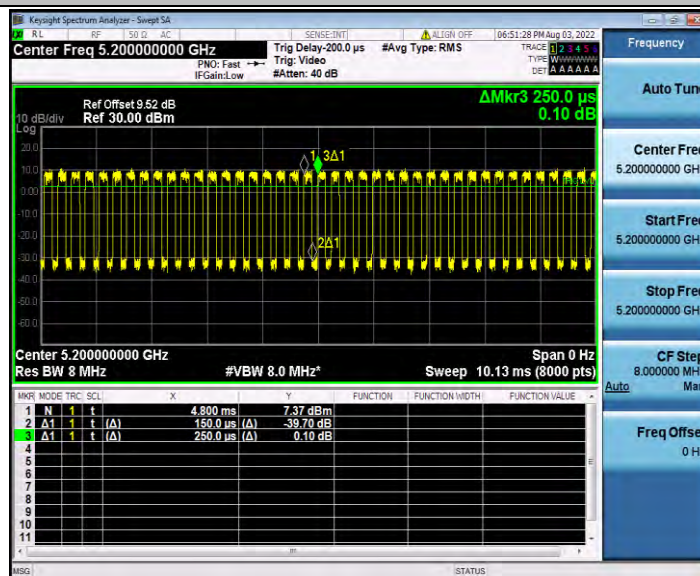
11N40SISO_Ant1_5230



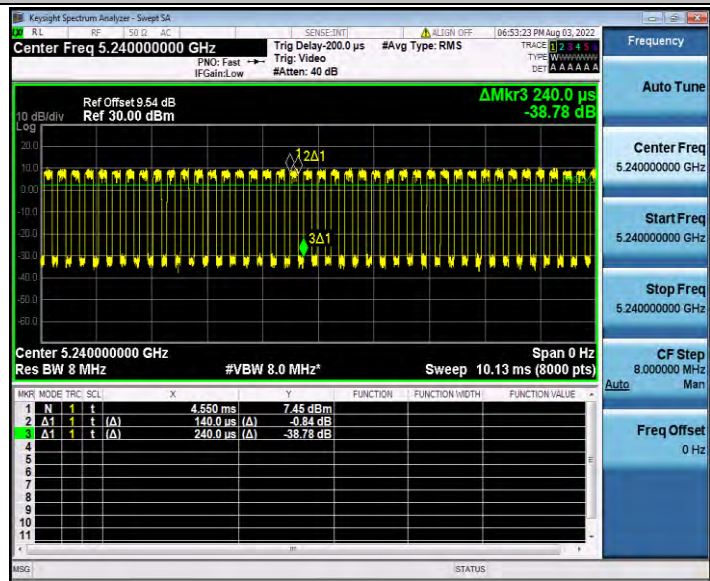
11AC20SISO_Ant1_5180



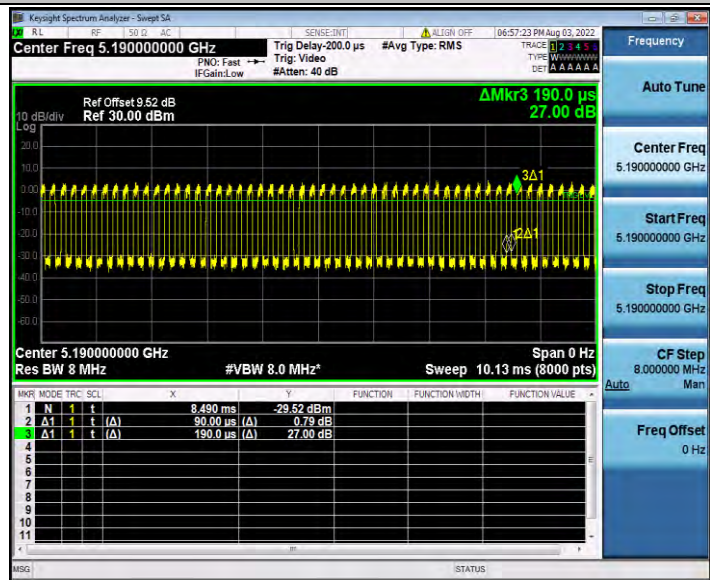
11AC20SISO_Ant1_5200



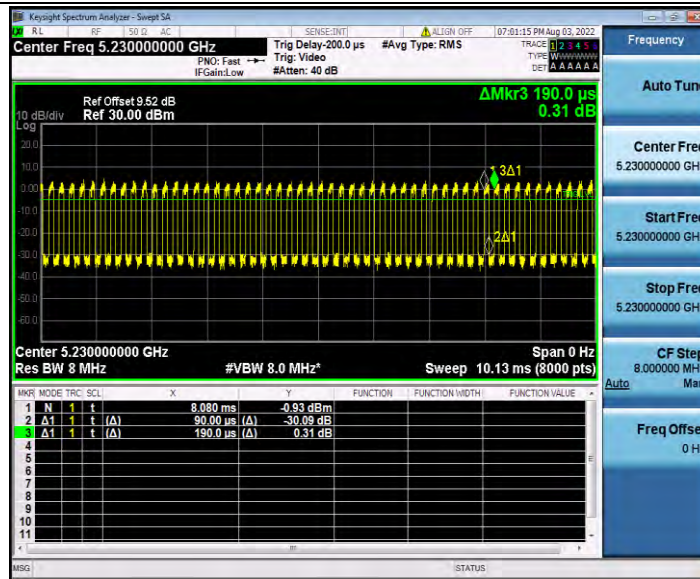
11AC20SISO_Ant1_5240



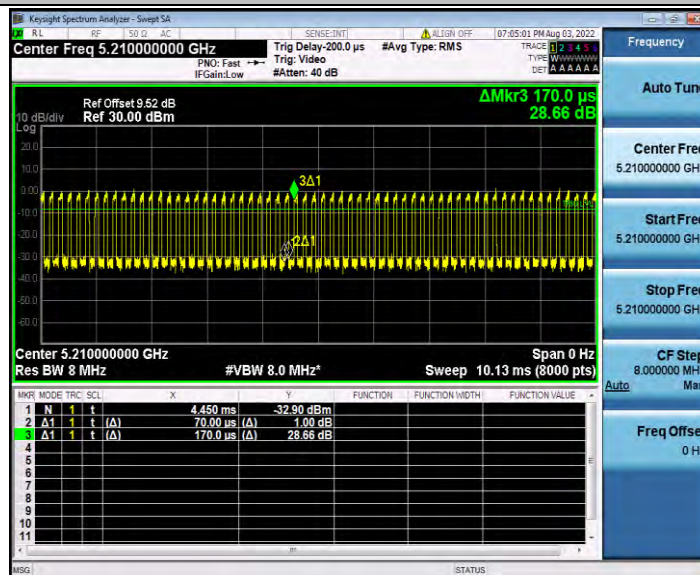
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



Appendix D.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	11.06	64.29	1.92	12.98	≤23.98	PASS
		5200	11.02	60.71	2.17	13.19	≤23.98	PASS
		5240	10.65	64.29	1.92	12.57	≤23.98	PASS
11N20SISO	Ant1	5180	8.85	61.54	2.11	10.96	≤23.98	PASS
		5200	8.96	61.54	2.11	11.07	≤23.98	PASS
		5240	8.59	62.96	2.01	10.60	≤23.98	PASS
11N40SISO	Ant1	5190	8.63	50.00	3.01	11.64	≤23.98	PASS
		5230	8.58	47.62	3.22	11.80	≤23.98	PASS
11AC20SISO	Ant1	5180	9.51	60.00	2.22	11.73	≤23.98	PASS
		5200	9.26	60.00	2.22	11.48	≤23.98	PASS
		5240	8.90	58.33	2.34	11.24	≤23.98	PASS
11AC40SISO	Ant1	5190	8.50	47.37	3.24	11.74	≤23.98	PASS
		5230	8.54	47.37	3.24	11.78	≤23.98	PASS
11AC80SISO	Ant1	5210	7.72	41.18	3.85	11.57	≤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	9.59	≤11.00	PASS
		5200	9.98	≤11.00	PASS
		5240	9.48	≤11.00	PASS
11N20SISO	Ant1	5180	7.58	≤11.00	PASS
		5200	7.31	≤11.00	PASS
		5240	7.69	≤11.00	PASS
11N40SISO	Ant1	5190	6.29	≤11.00	PASS
		5230	5.90	≤11.00	PASS
11AC20SISO	Ant1	5180	8.85	≤11.00	PASS
		5200	8.94	≤11.00	PASS
		5240	8.14	≤11.00	PASS
11AC40SISO	Ant1	5190	3.40	≤11.00	PASS
		5230	2.31	≤11.00	PASS
11AC80SISO	Ant1	5210	-0.19	≤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



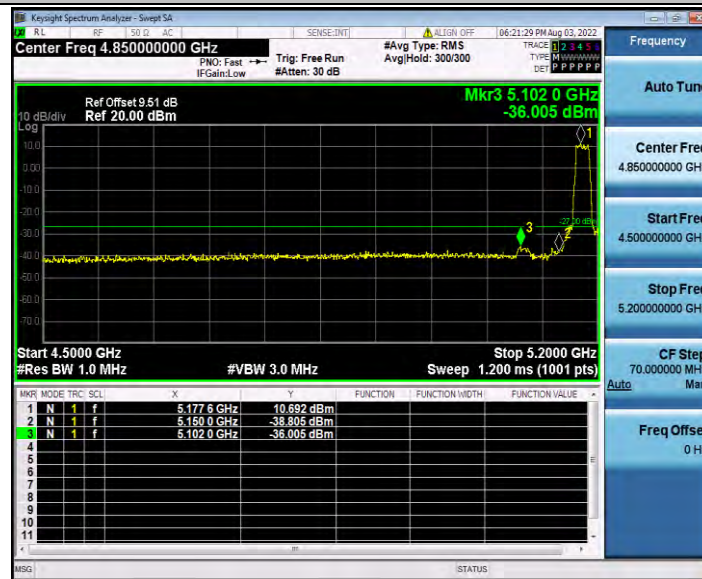
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-36.01	≤-27	PASS
		High	5240	-36.72	≤-27	PASS
11N20SISO	Ant1	Low	5180	-36.04	≤-27	PASS
		High	5240	-37.09	≤-27	PASS
11N40SISO	Ant1	Low	5190	-27.65	≤-27	PASS
		High	5230	-37.76	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-35.92	≤-27	PASS
		High	5240	-36.75	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-35.91	≤-27	PASS
		High	5230	-38.45	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-36.12	≤-27	PASS
		High	5210	-36.45	≤-27	PASS

Test Graphs B1

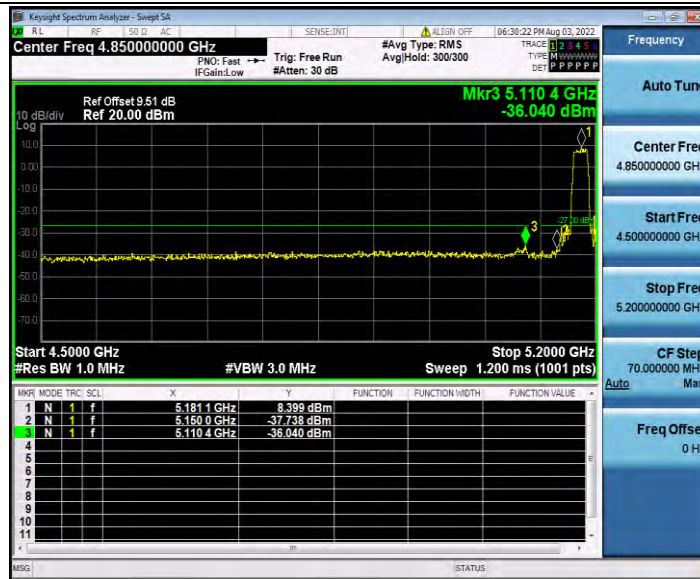
11A_Ant1_Low_5180



11A_Ant1_High_5240



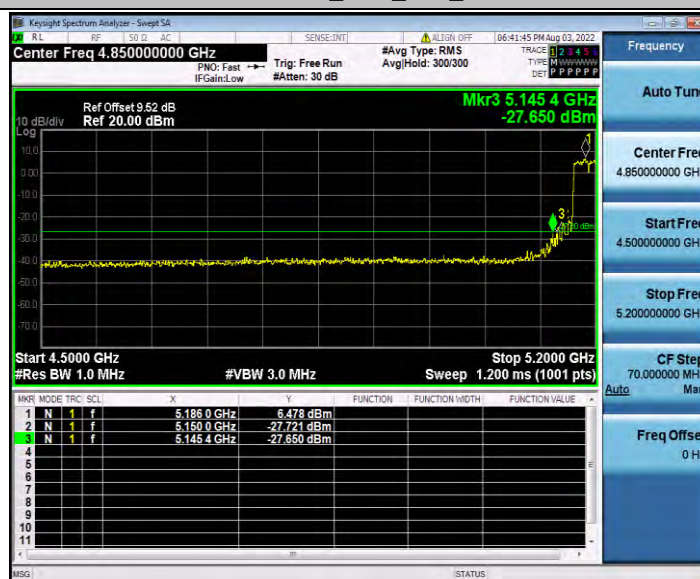
11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



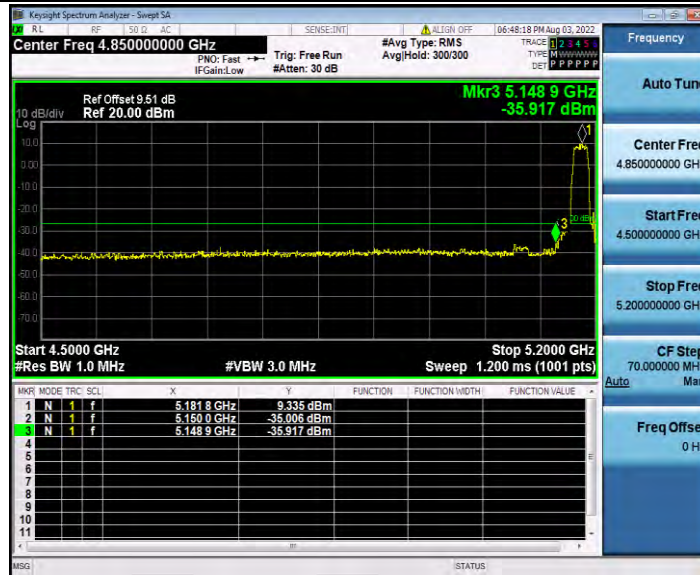
11N40SISO_Ant1_Low_5190



11N40SISO_Ant1_High_5230



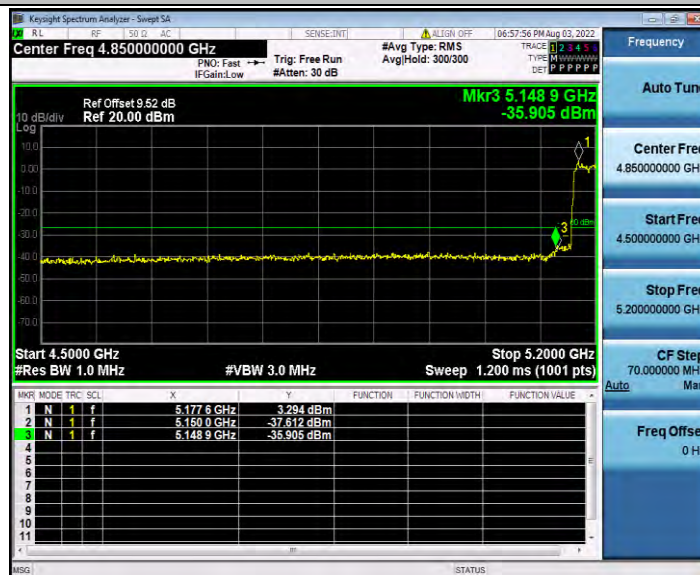
11AC20SISO_Ant1_Low_5180



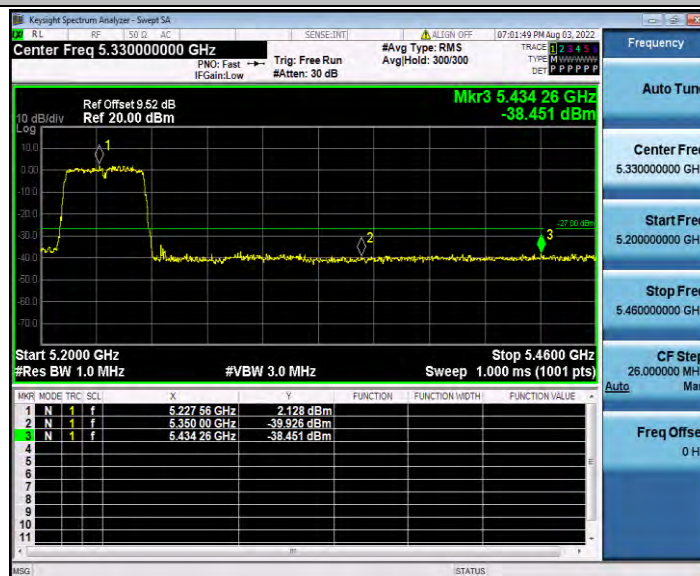
11AC20SISO_Ant1_High_5240



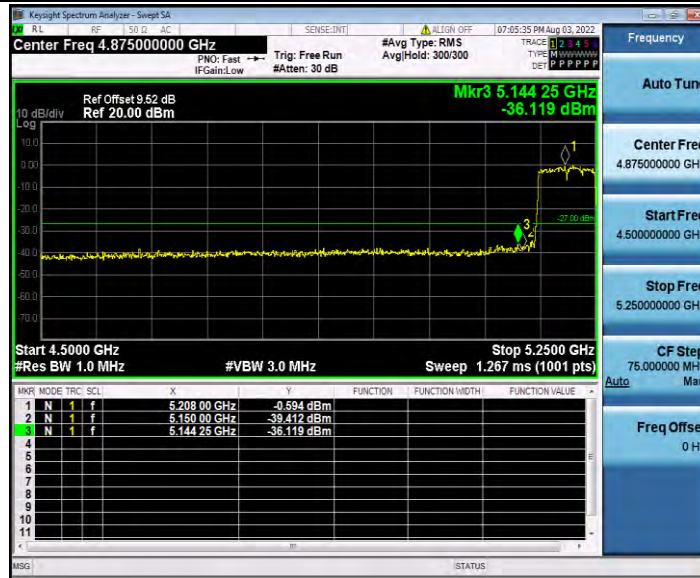
11AC40SISO_Ant1_Low_5190



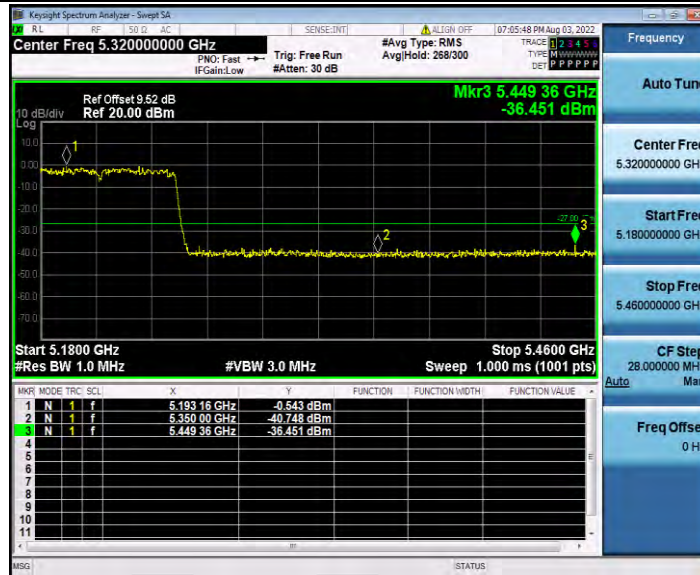
11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



Appendix D.7: Conducted Spurious Emission

Test Result

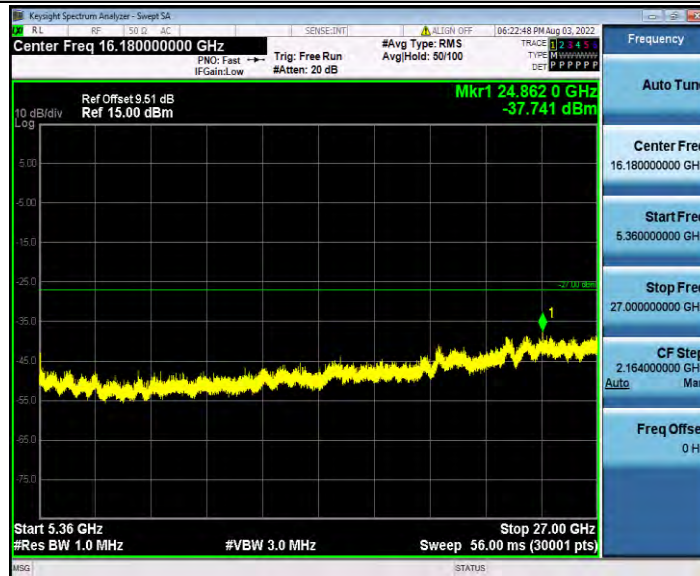
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5111.72	-40.31	≤-27	PASS
			5360~40000	24861.97	-37.74	≤-27	PASS
		5200	30~5140	5121.6	-39.92	≤-27	PASS
			5360~40000	26783.6	-38.06	≤-27	PASS
		5240	30~5140	1759.05	-41.4	≤-27	PASS
			5360~40000	26963.93	-37.7	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5102.02	-41.86	≤-27	PASS
			5360~40000	26731.66	-37.77	≤-27	PASS
		5200	30~5140	5131.14	-41.16	≤-27	PASS
			5360~40000	23592.42	-37.47	≤-27	PASS
		5240	30~5140	3160.56	-46.63	≤-27	PASS
			5360~40000	26558.54	-38.6	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5121.94	-38.93	≤-27	PASS
			5360~40000	24843.21	-38.43	≤-27	PASS
		5230	30~5140	5137.79	-42.59	≤-27	PASS
			5360~40000	24756.65	-37.96	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5113.09	-41.92	≤-27	PASS
			5360~40000	23577.27	-38.11	≤-27	PASS
		5200	30~5140	5131.99	-41.2	≤-27	PASS
			5360~40000	25105.78	-38.35	≤-27	PASS
		5240	30~5140	4979.89	-46.21	≤-27	PASS
			5360~40000	26016.1	-37.98	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5139.49	-43.19	≤-27	PASS
			5360~40000	24214.21	-38.06	≤-27	PASS
		5230	30~5140	5139.15	-46.05	≤-27	PASS
			5360~40000	24152.9	-38.2	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5126.2	-39.71	≤-27	PASS
			5360~40000	25076.2	-38.39	≤-27	PASS

Test Graphs

11A_Ant1_5180_30~5140



11A_Ant1_5180_5360~40000



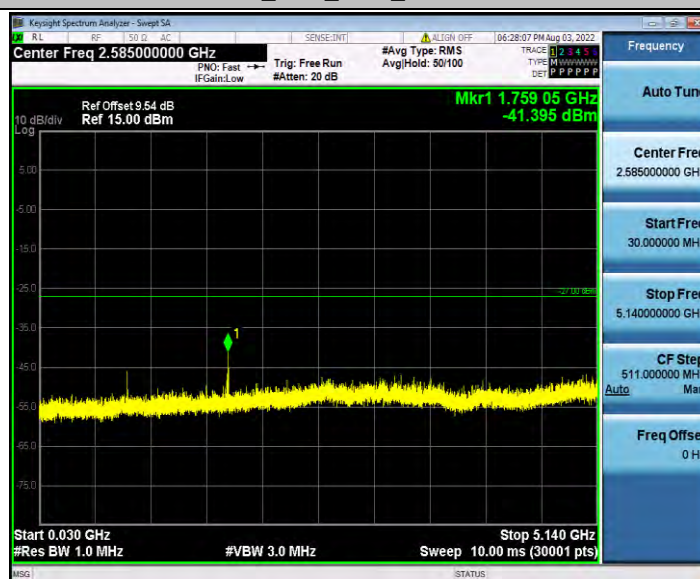
11A_Ant1_5200_30~5140



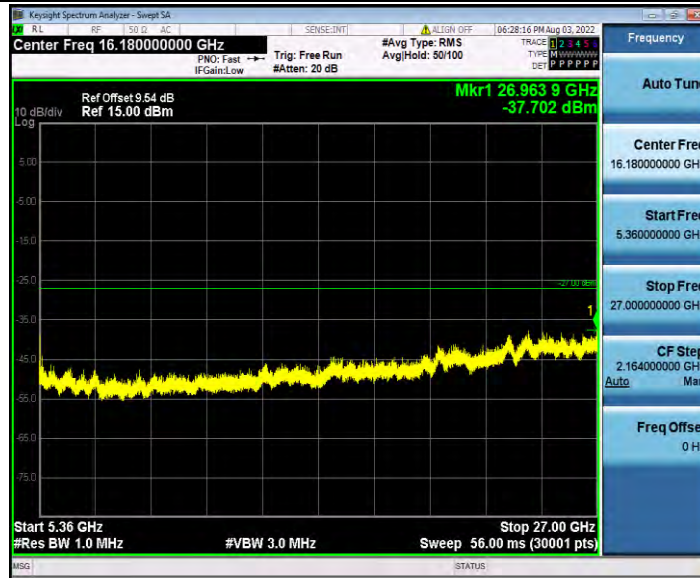
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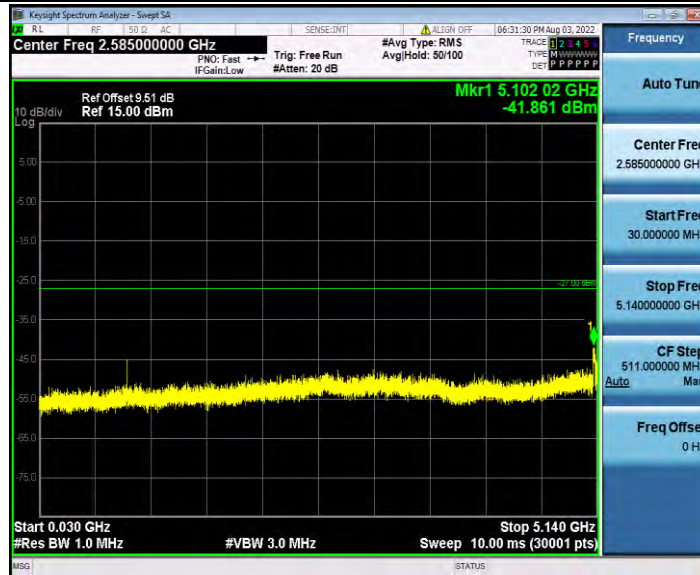
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11N20SISO_Ant1_5180_30~5140



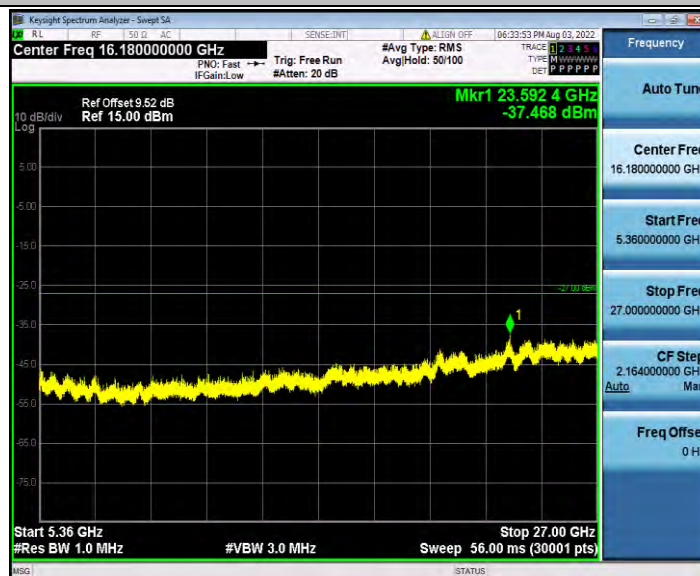
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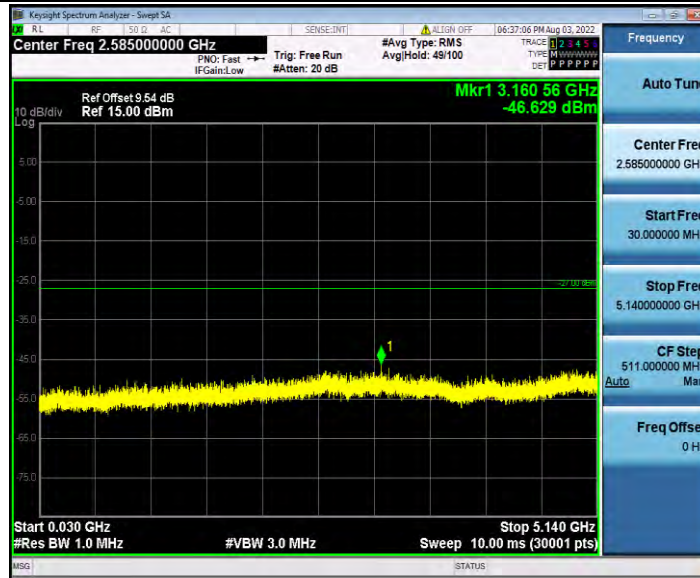
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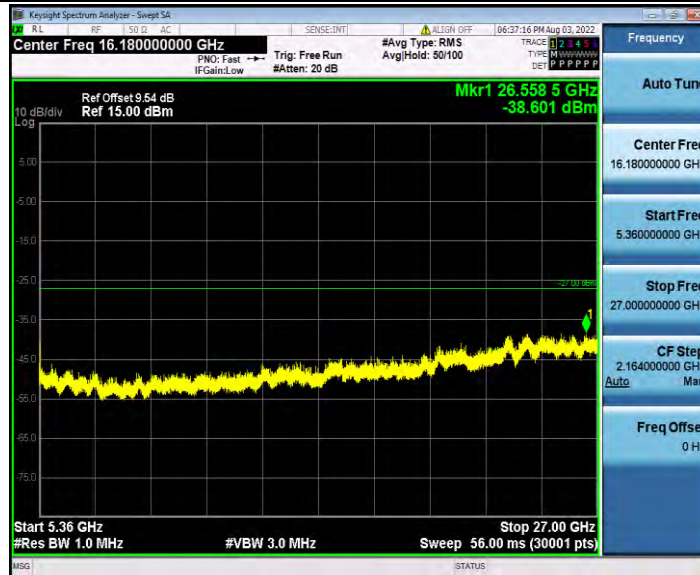
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11N20SISO_Ant1_5240_30~5140



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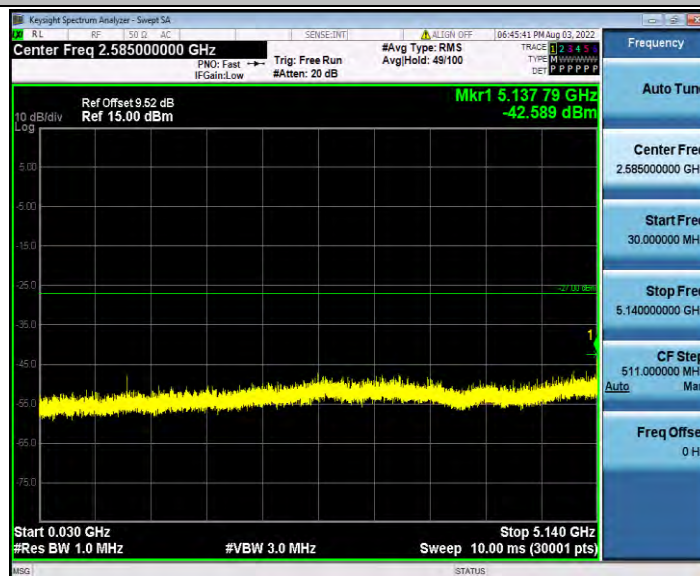
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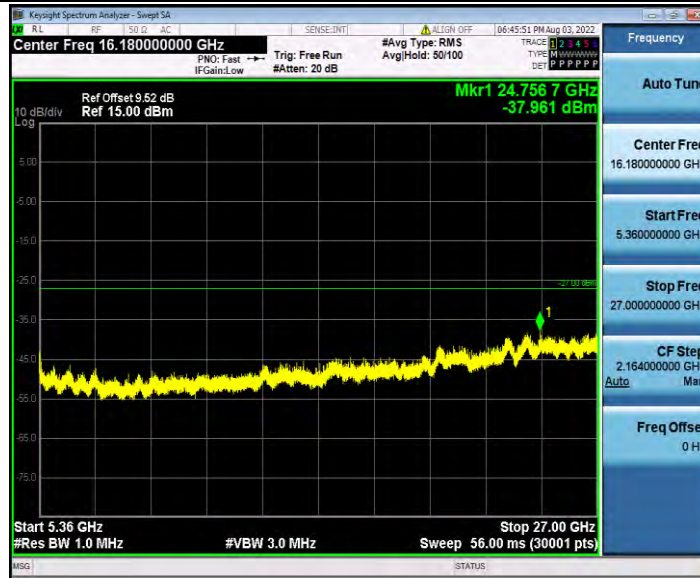
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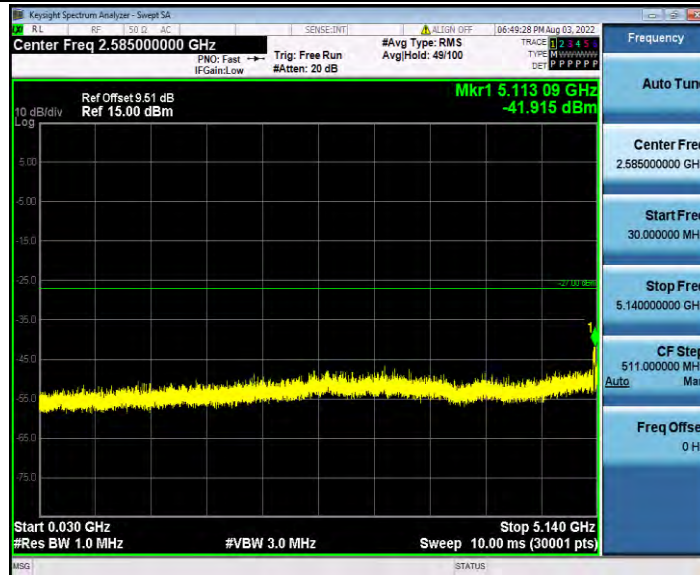
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11N40SISO_Ant1_5230_5360~40000



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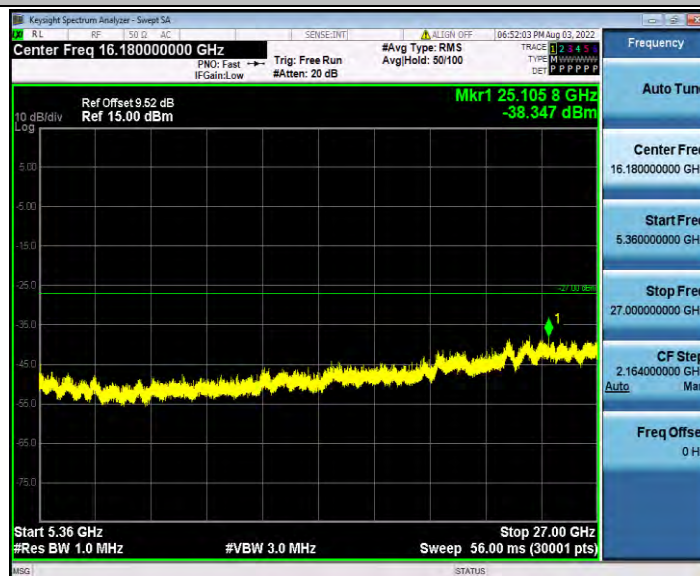
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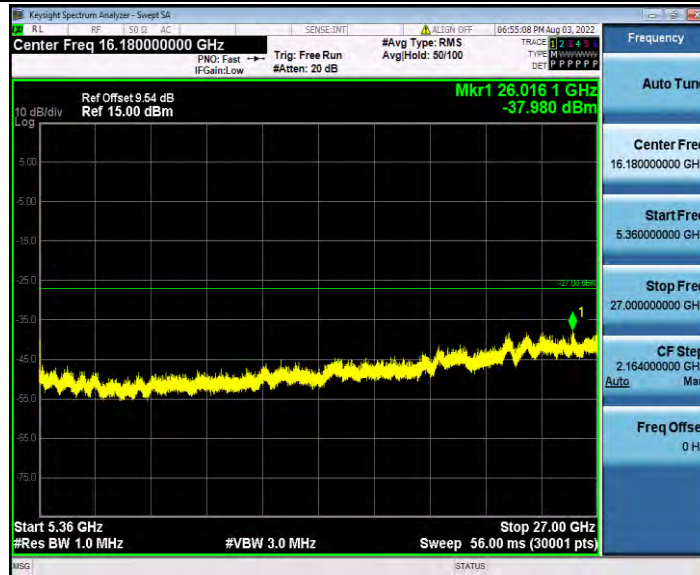
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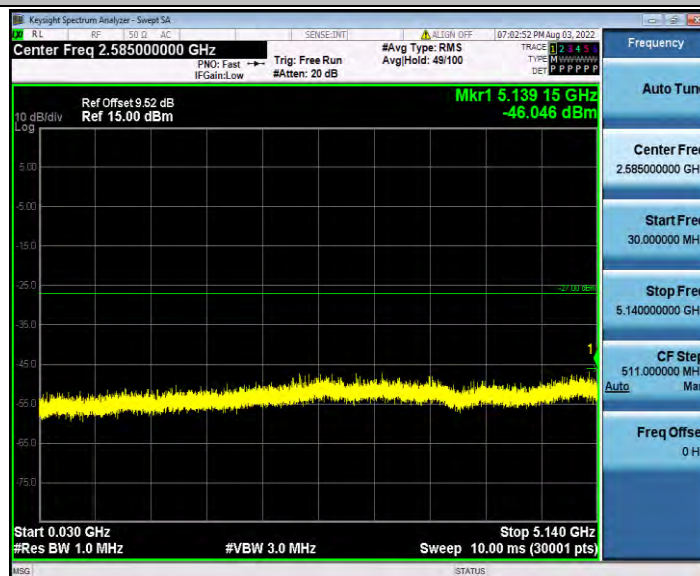
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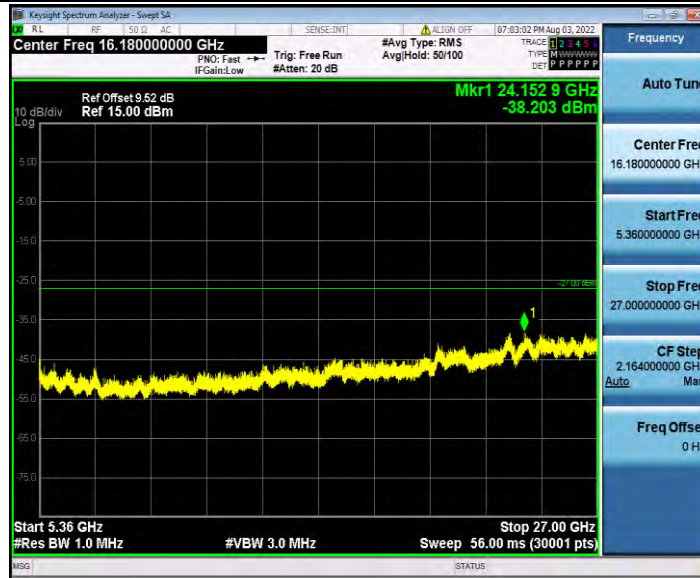
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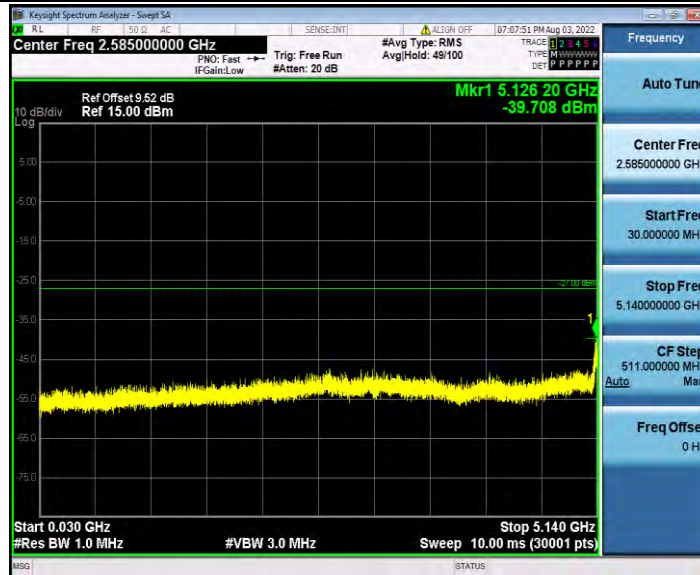
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11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_30~5140



11AC80SISO_Ant1_5210_5360~40000

