

Case No. : GTS20221008012-1-5	
Ambient Condition: 26 °C, 50 %RH, Atmos100.1Kpa,	
Test Date: 2022.10.28	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	20.760	5170.000	5190.760	---	---
		5200	22.000	5189.520	5211.520	---	---
		5240	21.120	5229.480	5250.600	---	---
11N20SISO	Ant1	5180	22.160	5169.840	5192.000	---	---
		5200	20.840	5189.480	5210.320	---	---
		5240	28.080	5227.840	5255.920	---	---
11N40SISO	Ant1	5190	57.600	5168.800	5226.400	---	---
		5230	76.720	5192.960	5269.680	---	---
11AC20SISO	Ant1	5180	20.080	5170.040	5190.120	---	---
		5200	29.440	5186.720	5216.160	---	---
		5240	20.800	5229.720	5250.520	---	---
11AC40SISO	Ant1	5190	63.440	5164.640	5228.080	---	---
		5230	77.680	5192.320	5270.000	---	---
11AC80SISO	Ant1	5210	124.640	5163.920	5288.560	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



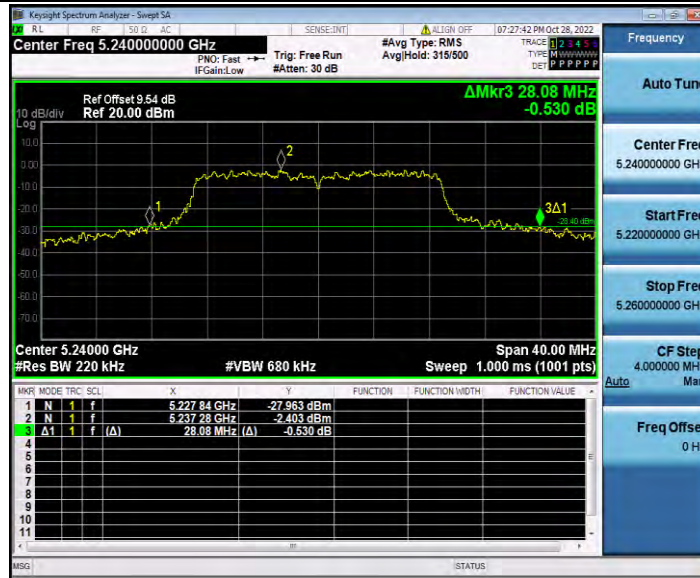
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



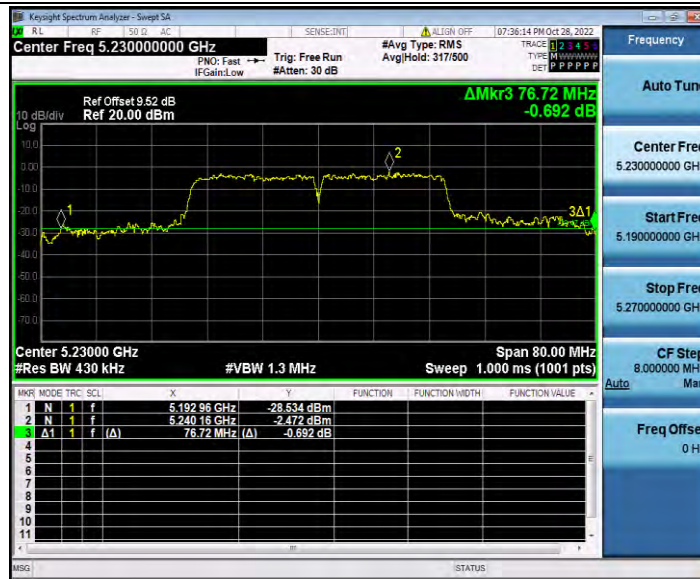
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



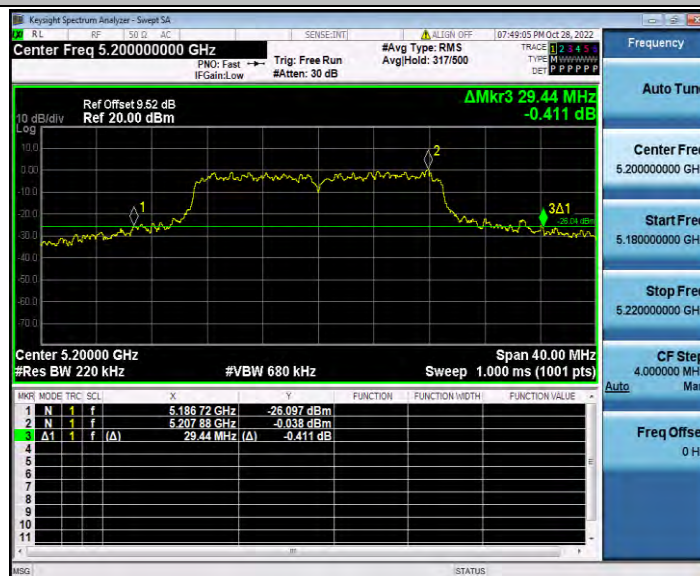
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



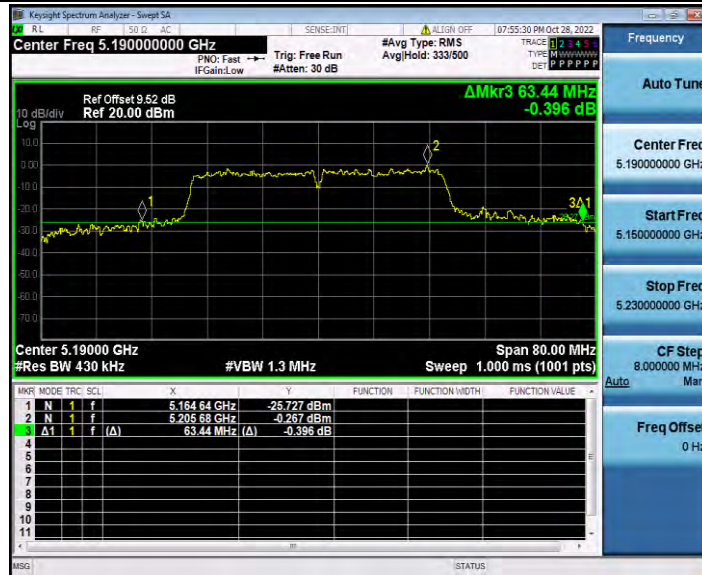
11AC20SISO_Ant1_5200



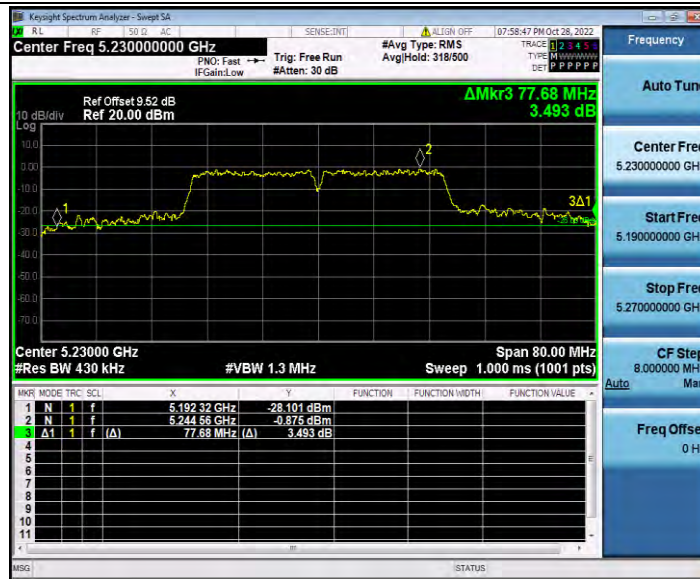
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



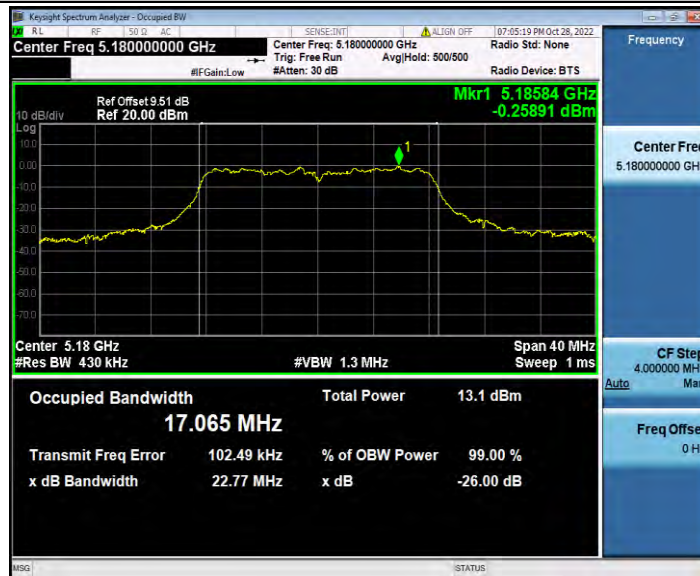
Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.065	5171.570	5188.635	---	---
		5200	21.744	5190.290	5212.034	---	---
		5240	24.826	5228.515	5253.341	---	---
11N20SISO	Ant1	5180	20.100	5170.647	5190.747	---	---
		5200	18.038	5191.010	5209.048	---	---
		5240	18.390	5230.855	5249.245	---	---
11N40SISO	Ant1	5190	36.999	5171.768	5208.767	---	---
		5230	41.754	5211.604	5253.358	---	---
11AC20SISO	Ant1	5180	18.416	5170.961	5189.377	---	---
		5200	18.363	5190.968	5209.331	---	---
		5240	20.600	5230.445	5251.045	---	---
11AC40SISO	Ant1	5190	40.375	5171.717	5212.092	---	---
		5230	45.505	5211.003	5256.508	---	---
11AC80SISO	Ant1	5210	78.432	5171.783	5250.215	---	---

Test Graphs

11A_Ant1_5180



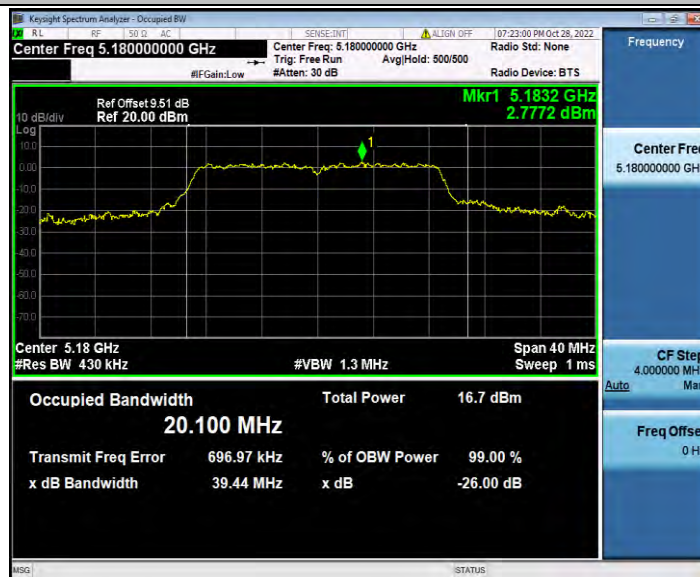
11A_Ant1_5200



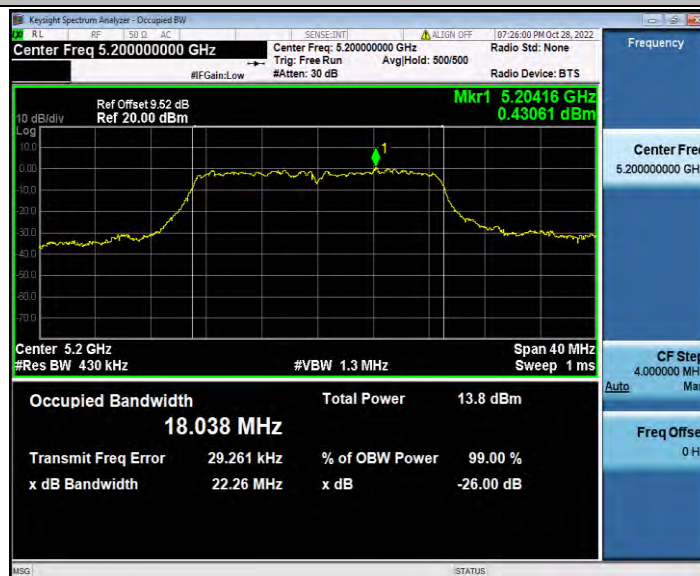
11A_Ant1_5240



11N20SISO_Ant1_5180



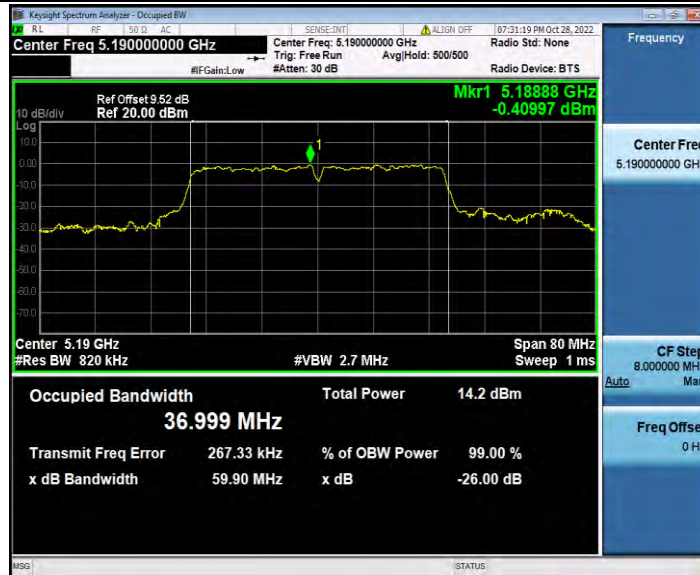
11N20SISO_Ant1_5200



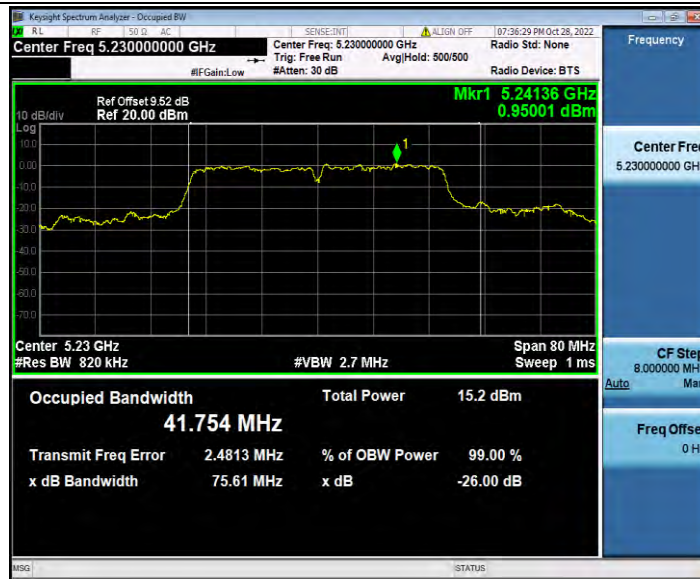
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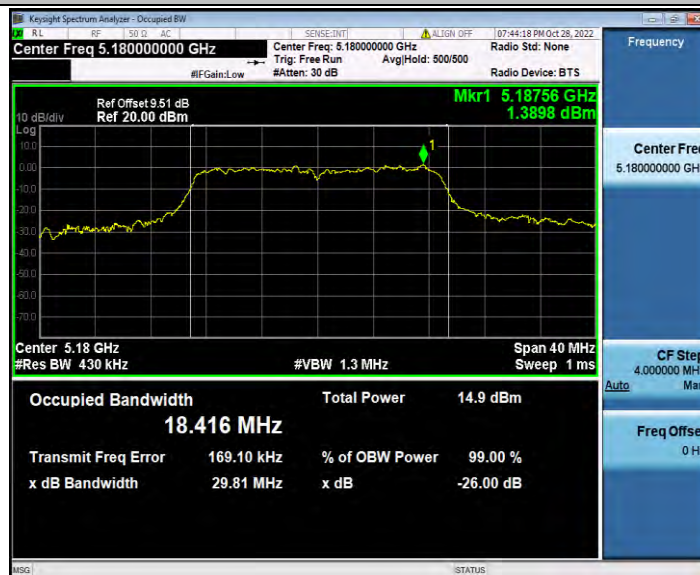
11N40SISO_Ant1_5190



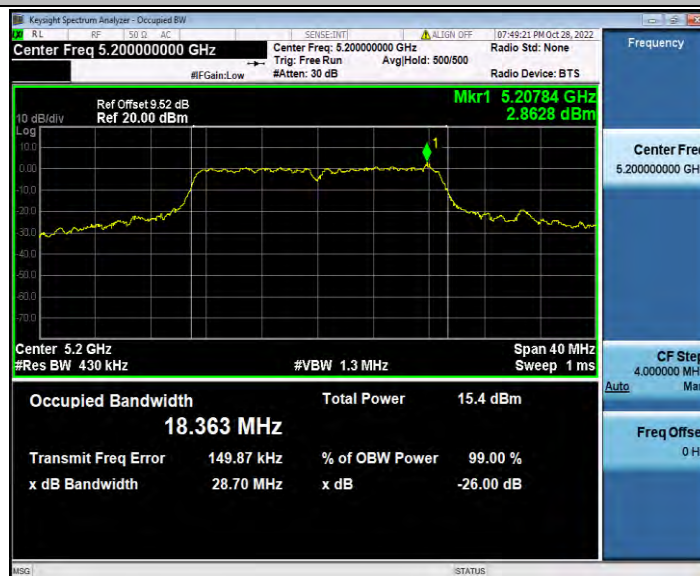
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



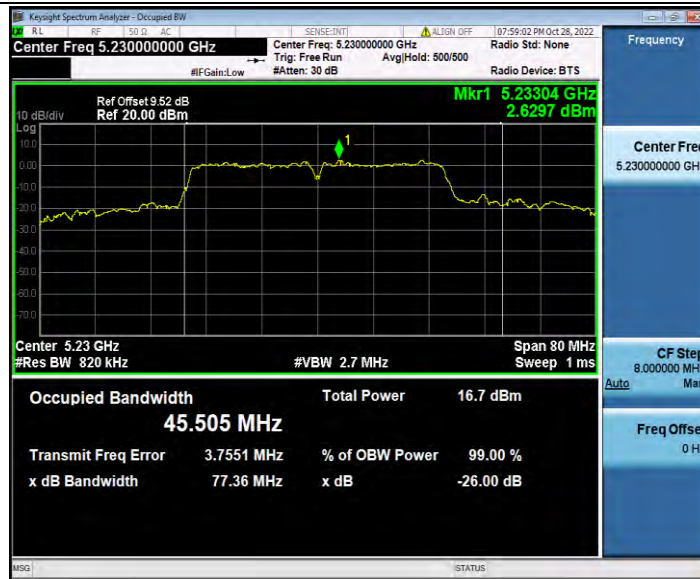
11AC20SISO_Ant1_5240



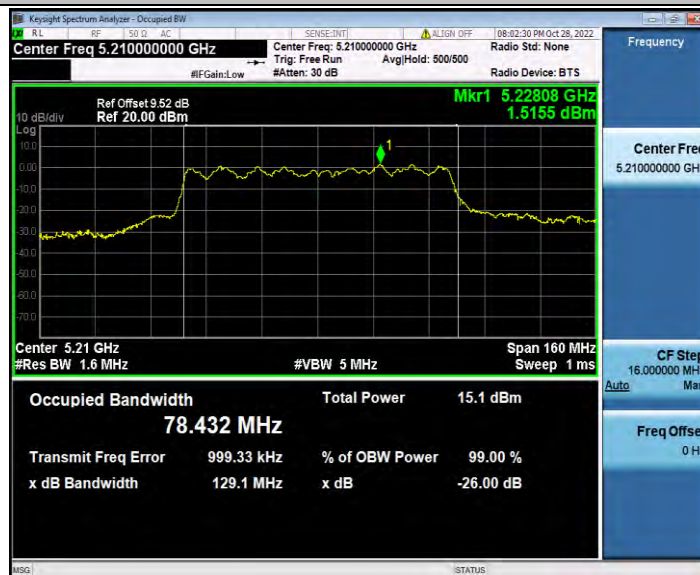
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



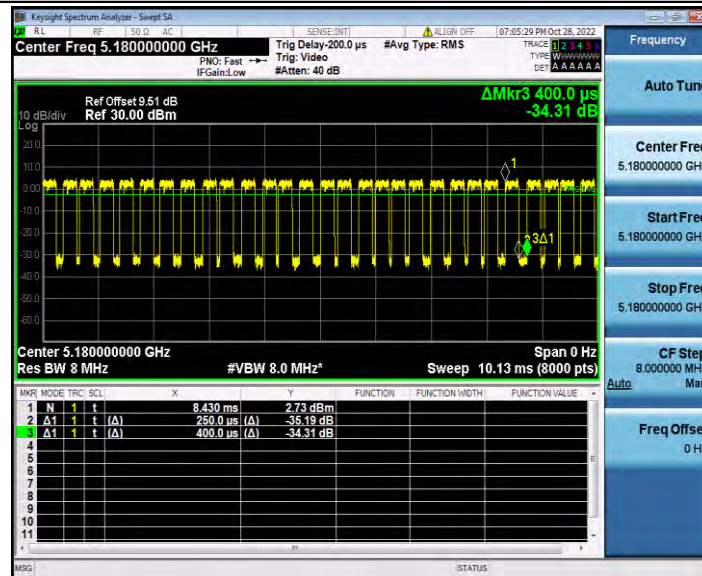
Appendix D.3: Duty Cycle

Test Result

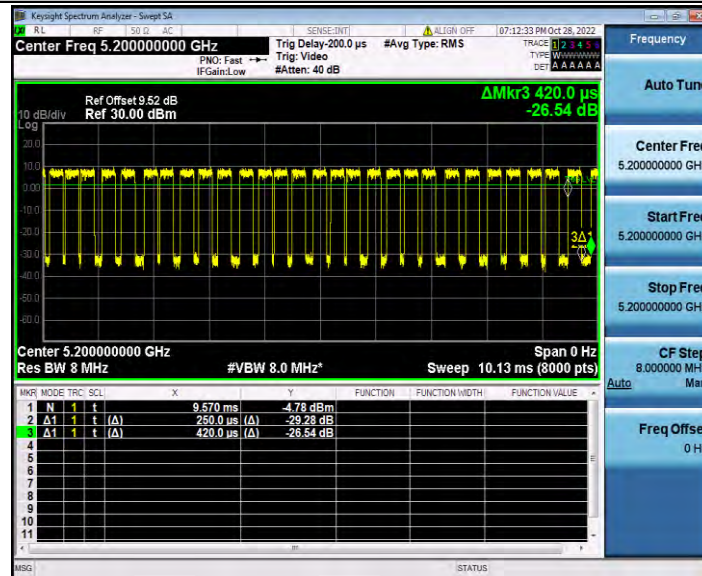
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	0.25	0.40	62.50
		5200	0.25	0.42	59.52
		5240	0.25	0.42	59.52
11N20SISO	Ant1	5180	0.23	0.40	57.50
		5200	0.23	0.40	57.50
		5240	0.23	0.40	57.50
11N40SISO	Ant1	5190	0.13	0.30	43.33
		5230	0.13	0.30	43.33
11AC20SISO	Ant1	5180	0.20	0.38	52.63
		5200	0.20	0.37	54.05
		5240	0.20	0.37	54.05
11AC40SISO	Ant1	5190	0.11	0.29	37.93
		5230	0.11	0.28	39.29
11AC80SISO	Ant1	5210	0.14	0.43	32.56

Test Graphs

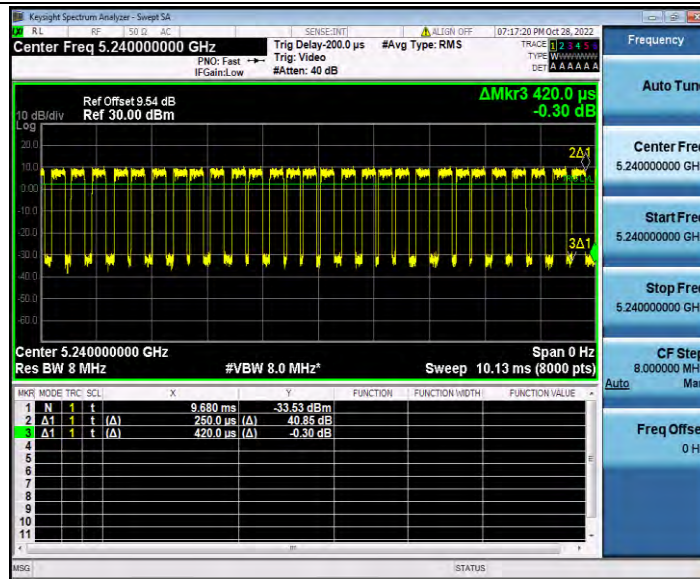
11A_Ant1_5180



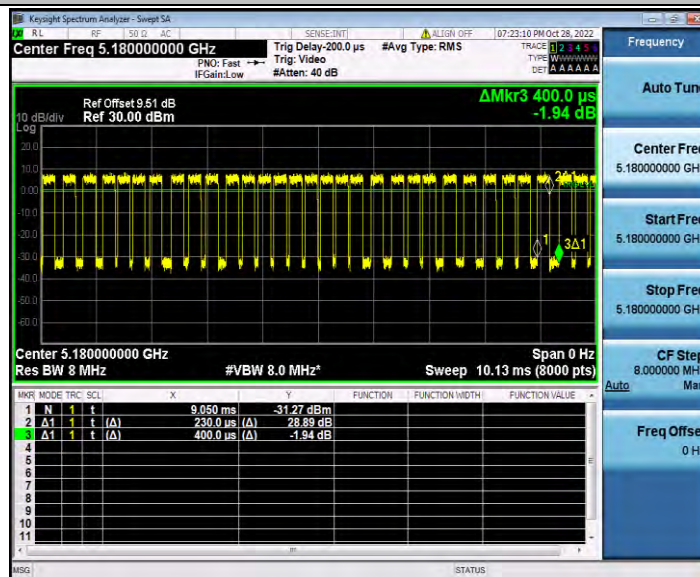
11A_Ant1_5200



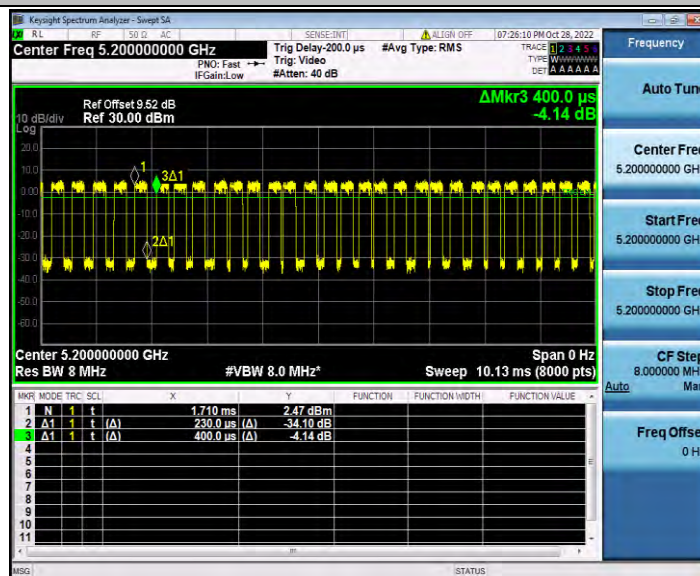
11A_Ant1_5240



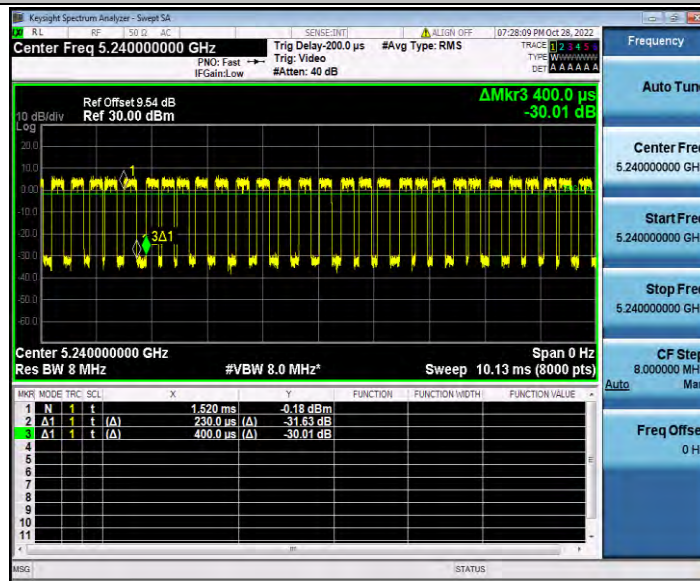
11N20SISO_Ant1_5180



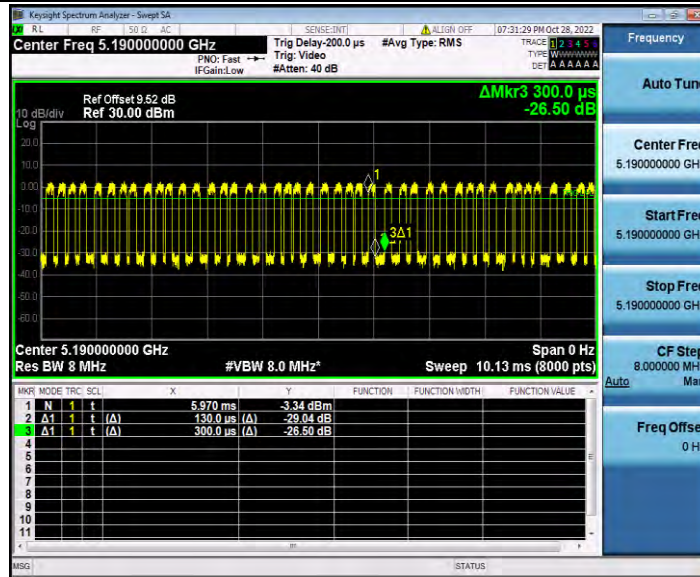
11N20SISO_Ant1_5200



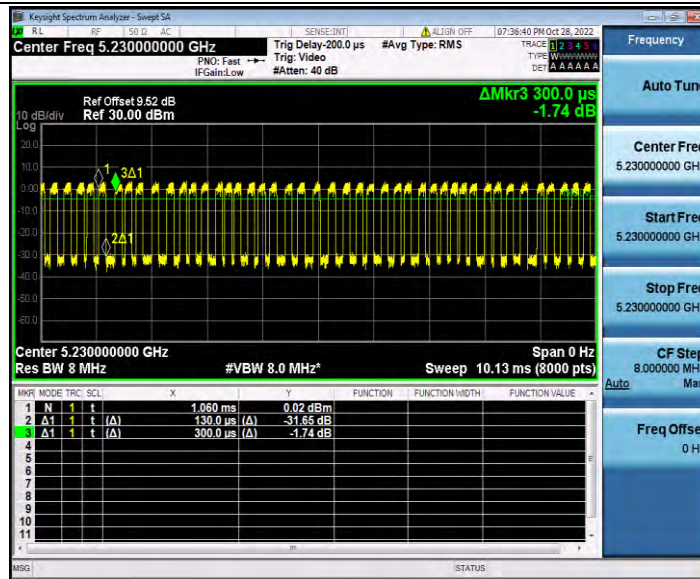
11N20SISO_Ant1_5240



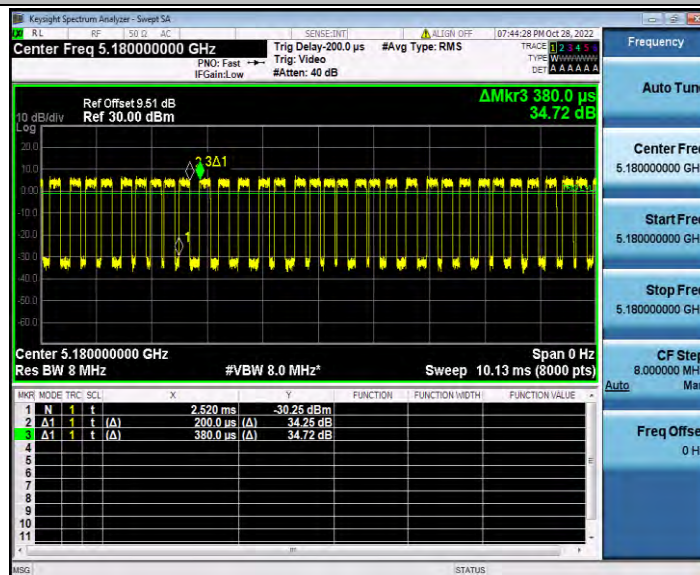
11N40SISO_Ant1_5190



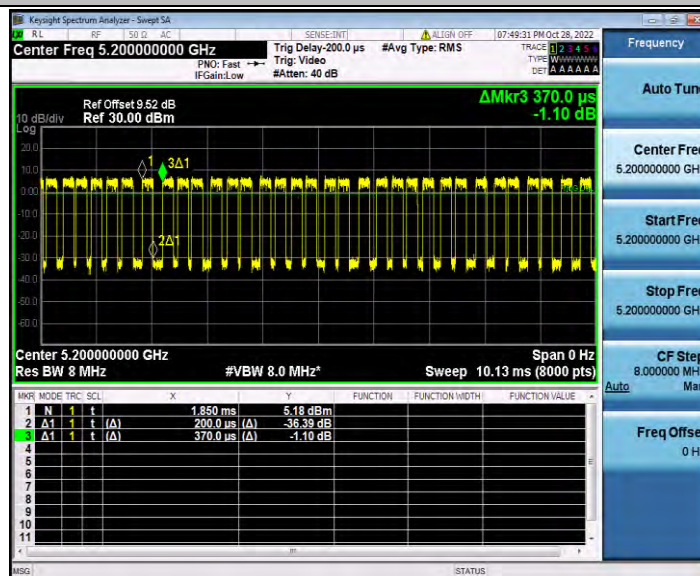
11N40SISO_Ant1_5230



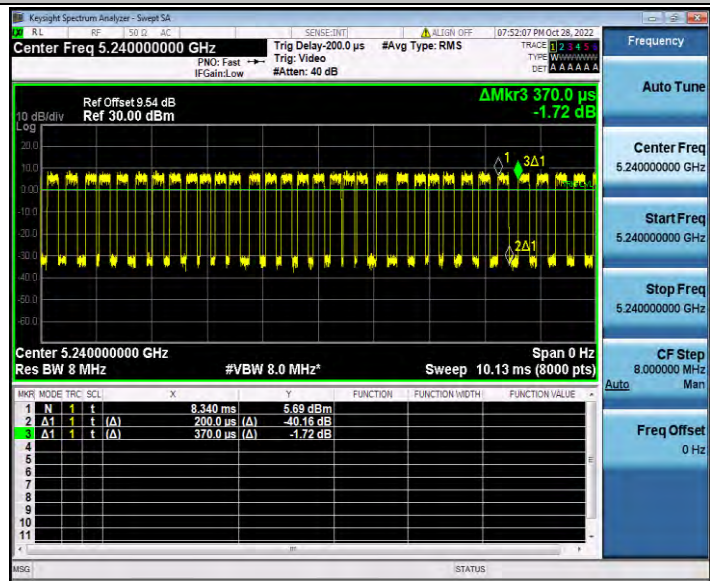
11AC20SISO_Ant1_5180



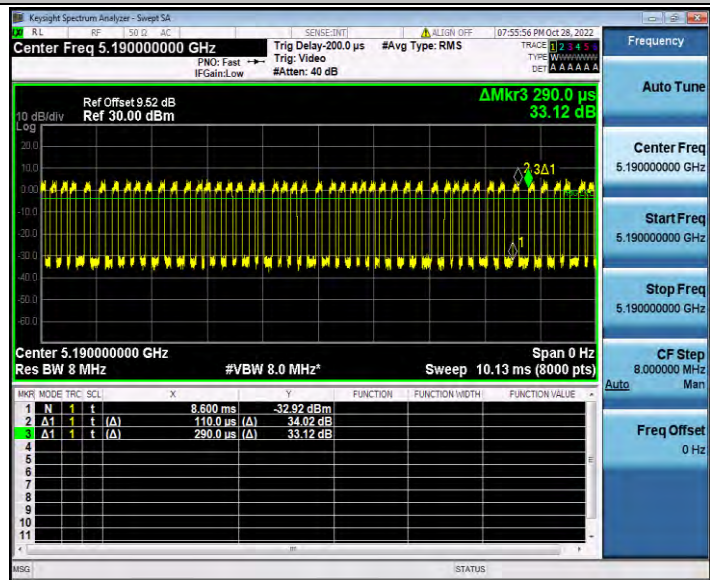
11AC20SISO_Ant1_5200



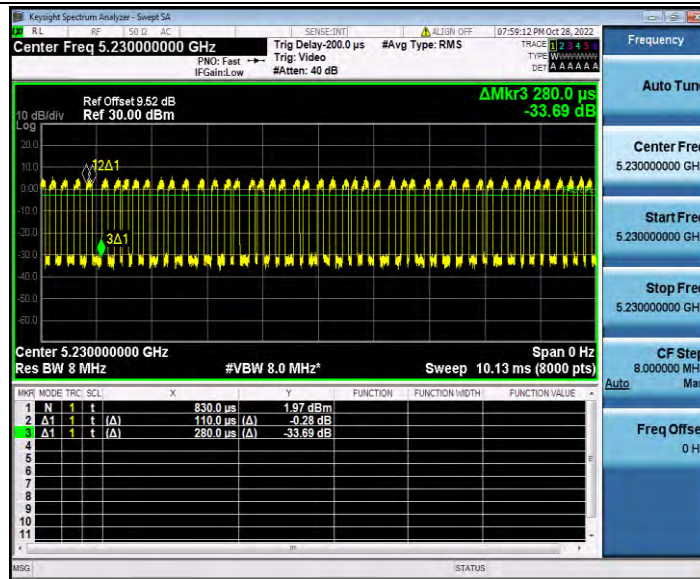
11AC20SISO_Ant1_5240



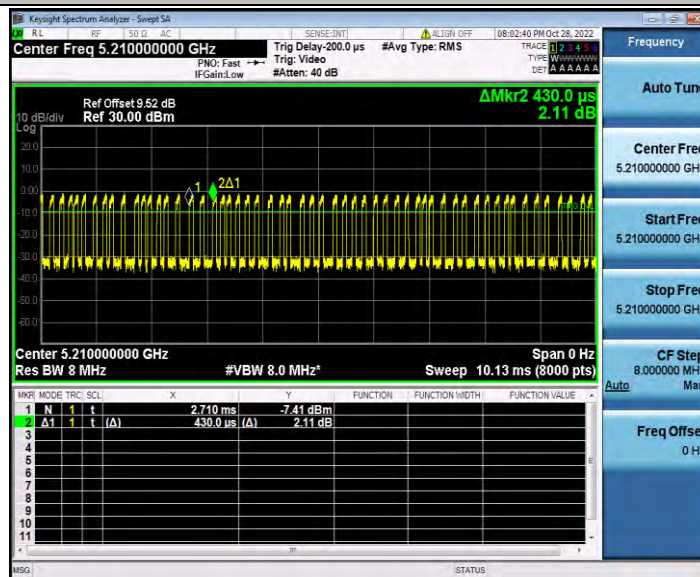
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Powert [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	8.87	62.50	2.04	10.91	≤23.98	PASS
		5200	9.36	59.52	2.25	11.61	≤23.98	PASS
		5240	9.80	59.52	2.25	12.05	≤23.98	PASS
11N20SISO	Ant1	5180	8.00	57.50	2.40	10.40	≤23.98	PASS
		5200	7.03	57.50	2.40	9.43	≤23.98	PASS
		5240	7.77	57.50	2.40	10.17	≤23.98	PASS
11N40SISO	Ant1	5190	6.24	43.33	3.63	9.87	≤23.98	PASS
		5230	7.20	43.33	3.63	10.83	≤23.98	PASS
11AC20SISO	Ant1	5180	6.37	52.63	2.79	9.16	≤23.98	PASS
		5200	6.70	54.05	2.67	9.37	≤23.98	PASS
		5240	7.56	54.05	2.67	10.23	≤23.98	PASS
11AC40SISO	Ant1	5190	5.80	37.93	4.21	10.01	≤23.98	PASS
		5230	6.61	39.29	4.06	10.67	≤23.98	PASS
11AC80SISO	Ant1	5210	5.68	32.56	4.87	10.55	≤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	3.84	≤11.00	PASS
		5200	9.17	≤11.00	PASS
		5240	9.23	≤11.00	PASS
11N20SISO	Ant1	5180	6.27	≤11.00	PASS
		5200	3.99	≤11.00	PASS
		5240	4.66	≤11.00	PASS
11N40SISO	Ant1	5190	2.36	≤11.00	PASS
		5230	3.52	≤11.00	PASS
11AC20SISO	Ant1	5180	5.83	≤11.00	PASS
		5200	6.17	≤11.00	PASS
		5240	7.17	≤11.00	PASS
11AC40SISO	Ant1	5190	5.19	≤11.00	PASS
		5230	5.26	≤11.00	PASS
11AC80SISO	Ant1	5210	1.36	≤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



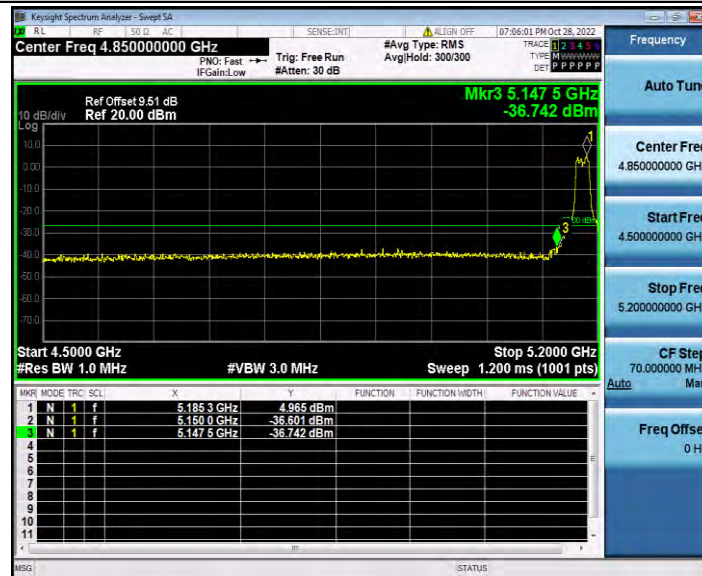
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-36.74	≤-27	PASS
		High	5240	-37.97	≤-27	PASS
11N20SISO	Ant1	Low	5180	-31.79	≤-27	PASS
		High	5240	-37.62	≤-27	PASS
11N40SISO	Ant1	Low	5190	-29.92	≤-27	PASS
		High	5230	-37.48	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-33.48	≤-27	PASS
		High	5240	-38.38	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-28.25	≤-27	PASS
		High	5230	-36.92	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-30.93	≤-27	PASS
		High	5210	-37.26	≤-27	PASS

Test Graphs B1/2/3

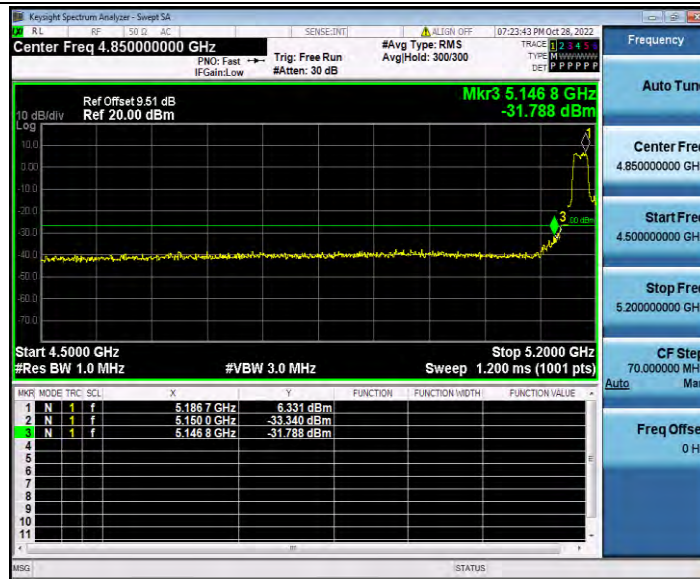
11A_Ant1_Low_5180



11A_Ant1_High_5240



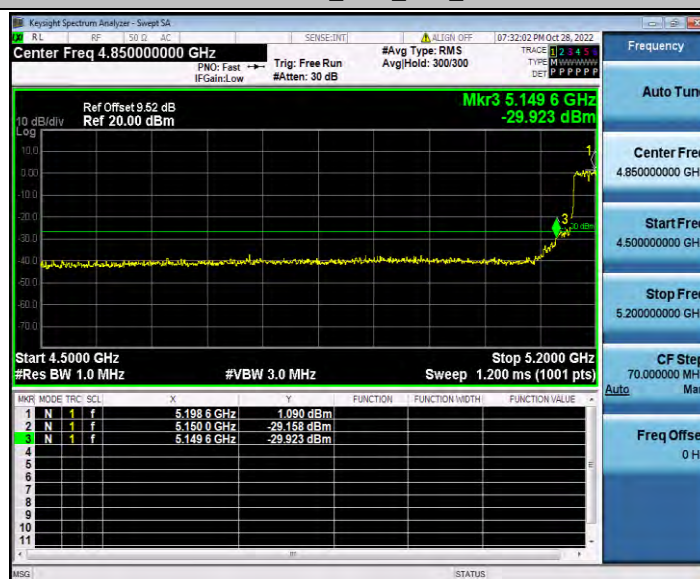
11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



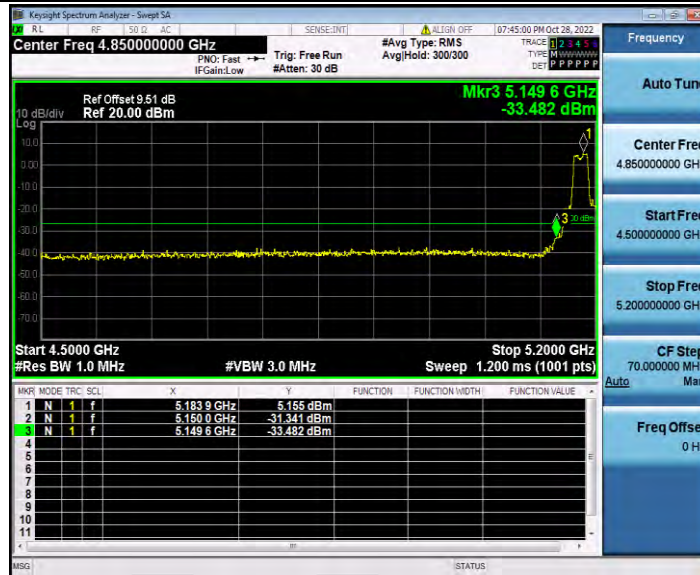
11N40SISO_Ant1_Low_5190



11N40SISO_Ant1_High_5230



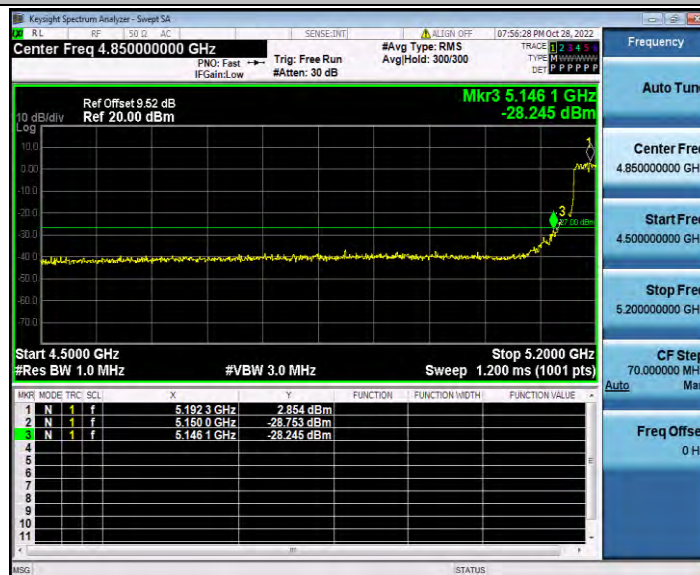
11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240



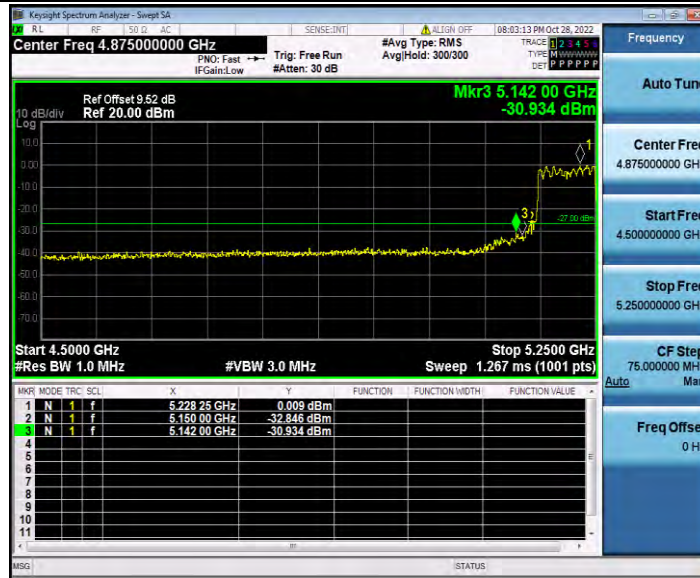
11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



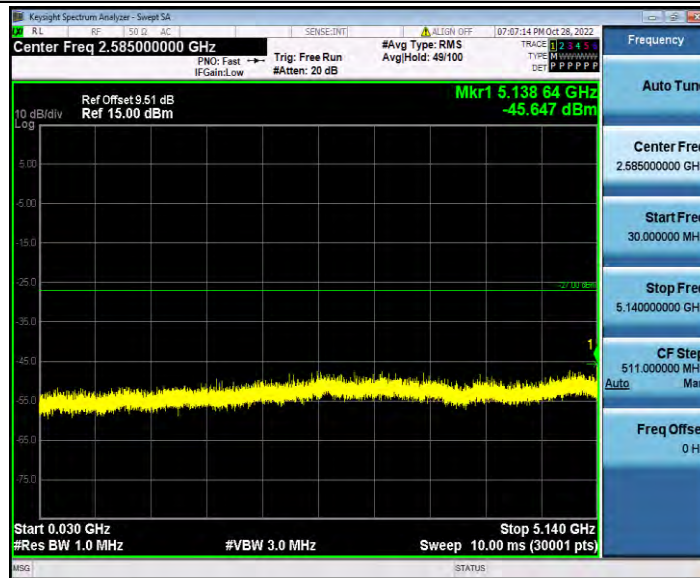
Appendix D.7: Conducted Spurious Emission

Test Result

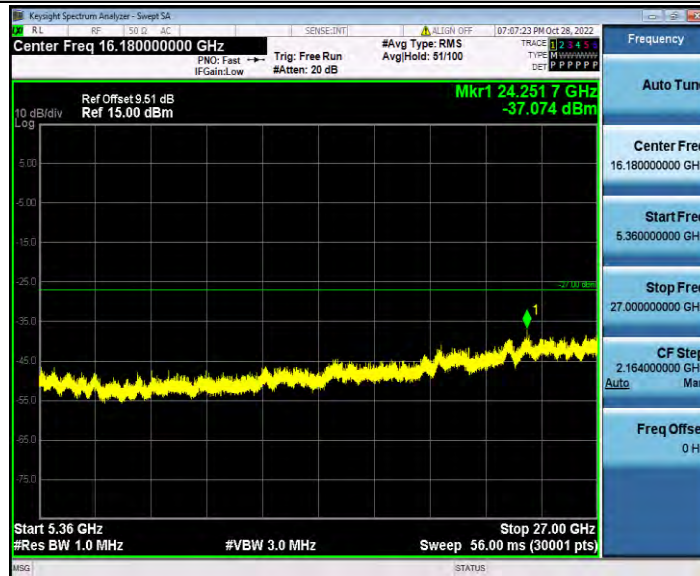
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5138.64	-45.65	≤-27	PASS
			5360~40000	24251.72	-37.07	≤-27	PASS
		5200	30~5140	5129.44	-42.64	≤-27	PASS
			5360~40000	25232.01	-37.28	≤-27	PASS
		5240	30~5140	1736.4	-29.98	≤-27	PASS
			5360~40000	26839.14	-38.2	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5139.83	-36.9	≤-27	PASS
			5360~40000	26679.01	-38.09	≤-27	PASS
		5200	30~5140	4750.79	-47.58	≤-27	PASS
			5360~40000	25241.39	-37.95	≤-27	PASS
		5240	30~5140	5017.7	-47.17	≤-27	PASS
			5360~40000	24230.08	-38.17	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5138.47	-34.96	≤-27	PASS
			5360~40000	26080.3	-37.92	≤-27	PASS
		5230	30~5140	5125.35	-45.45	≤-27	PASS
			5360~40000	25081.25	-37.61	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5139.83	-41.41	≤-27	PASS
			5360~40000	26515.26	-37.71	≤-27	PASS
		5200	30~5140	4970.35	-45.87	≤-27	PASS
			5360~40000	24826.62	-38.23	≤-27	PASS
		5240	30~5140	4933.22	-47.15	≤-27	PASS
			5360~40000	24199.78	-38.4	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5133.87	-33.99	≤-27	PASS
			5360~40000	26539.07	-38.23	≤-27	PASS
		5230	30~5140	5137.96	-40.35	≤-27	PASS
			5360~40000	26821.11	-38.24	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5122.46	-33.41	≤-27	PASS
			5360~40000	26906.95	-37.96	≤-27	PASS

Test Graphs

11A_Ant1_5180_30~5140



11A_Ant1_5180_5360~40000



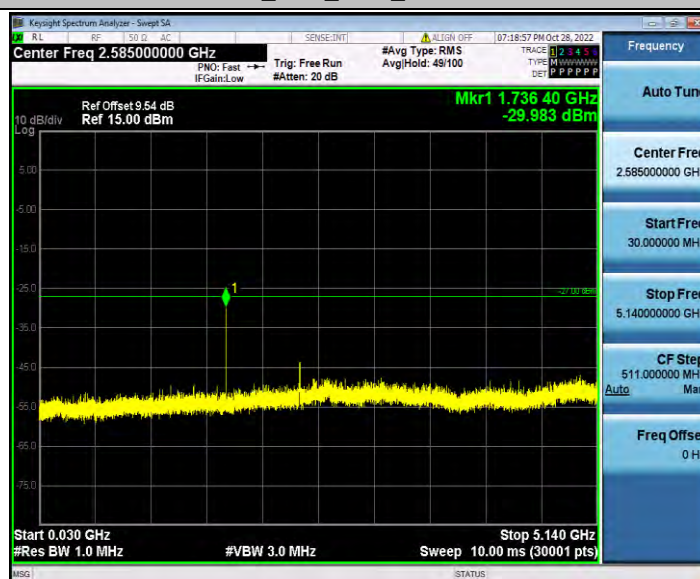
11A_Ant1_5200_30~5140



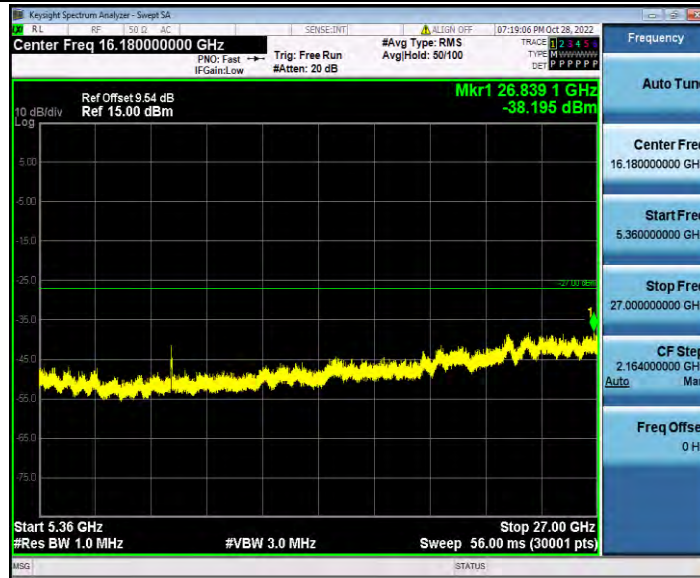
11A_Ant1_5200_5360~40000



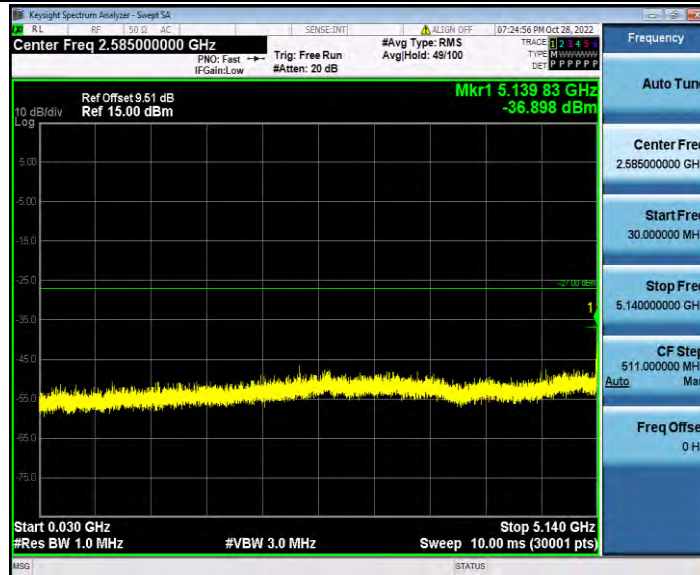
11A_Ant1_5240_30~5140



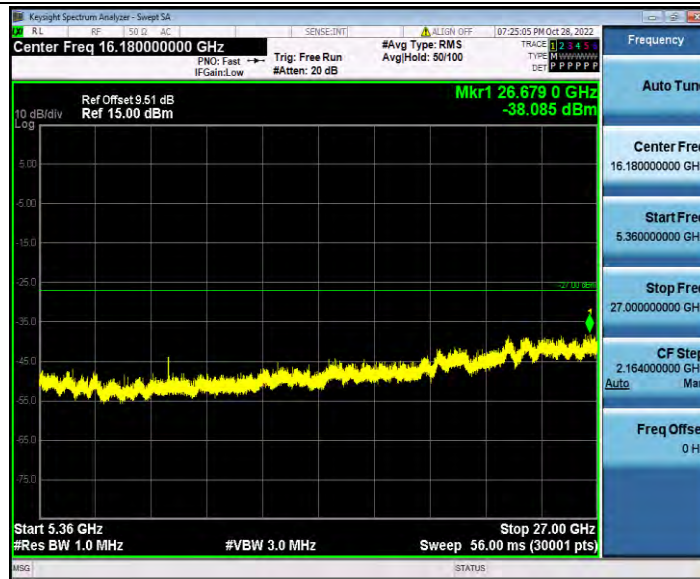
11A_Ant1_5240_5360~40000



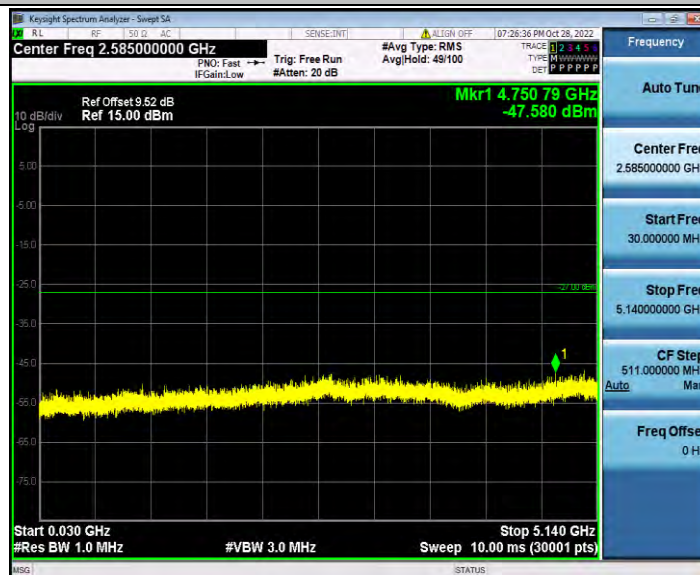
11N20SISO_Ant1_5180_30~5140



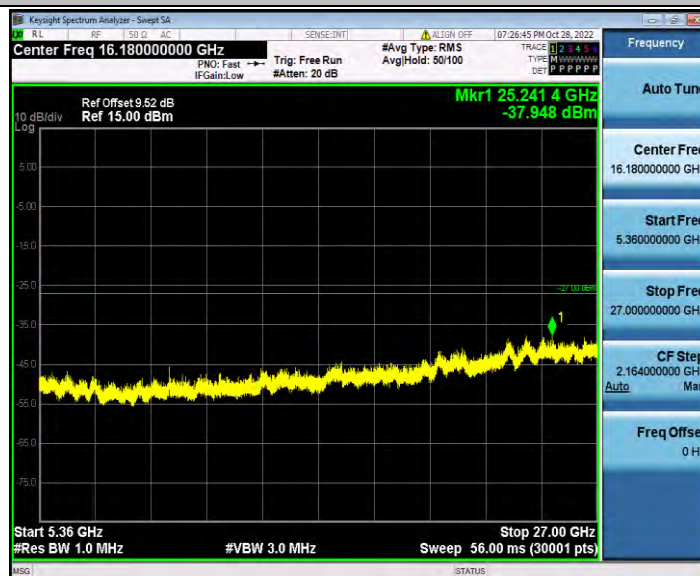
11N20SISO_Ant1_5180_5360~40000



11N20SISO_Ant1_5200_30~5140



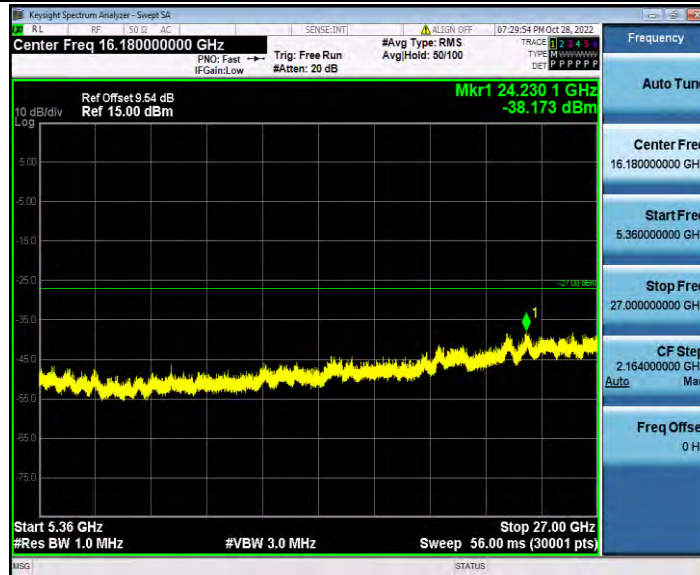
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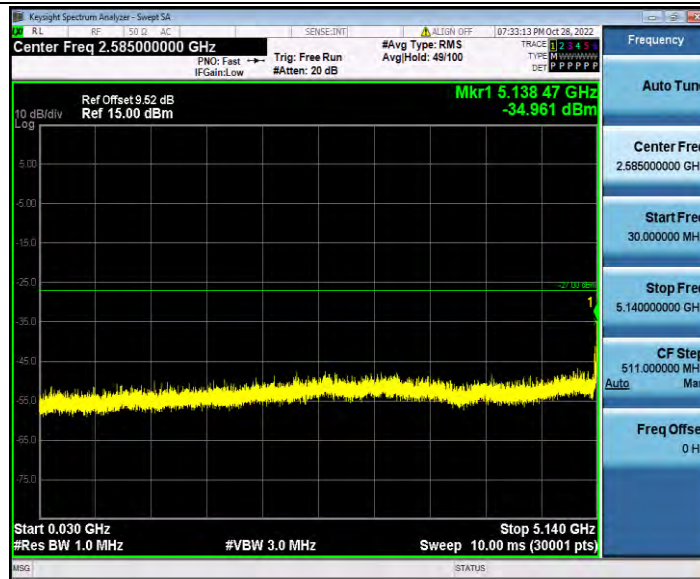
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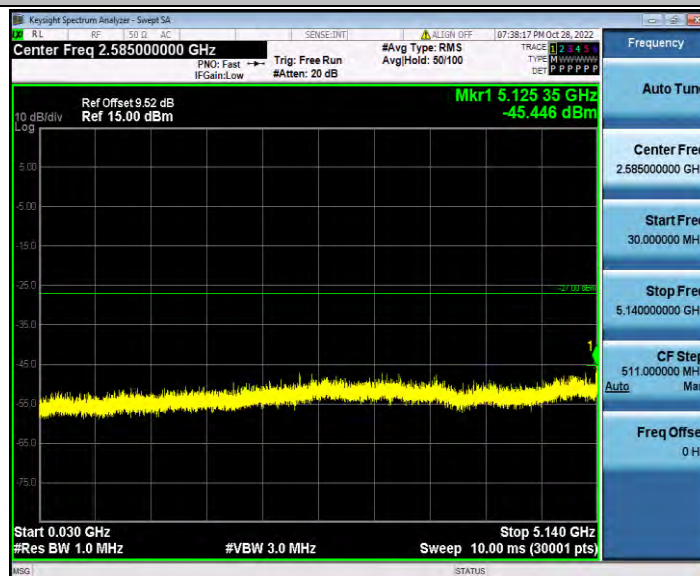
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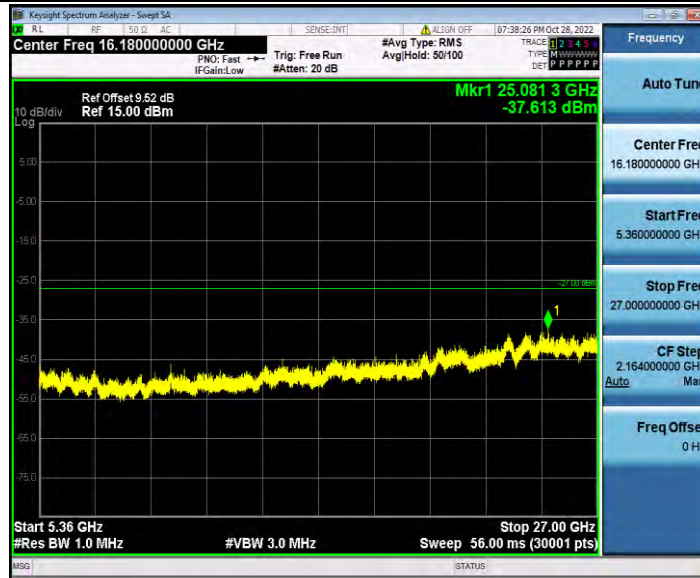
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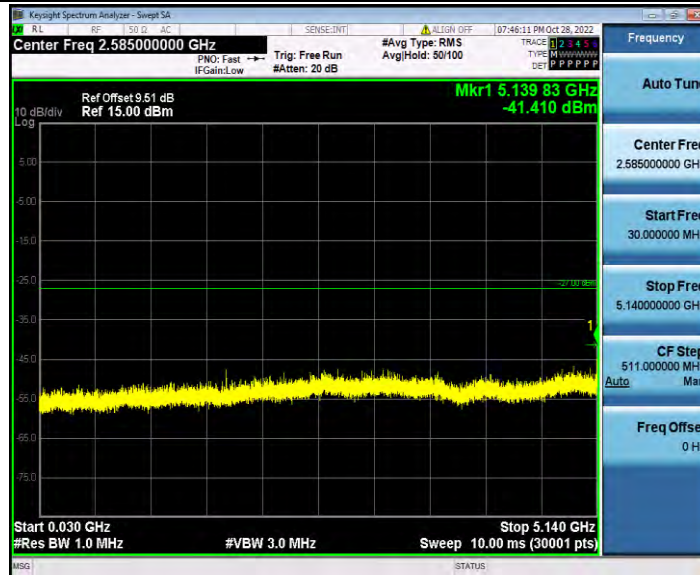
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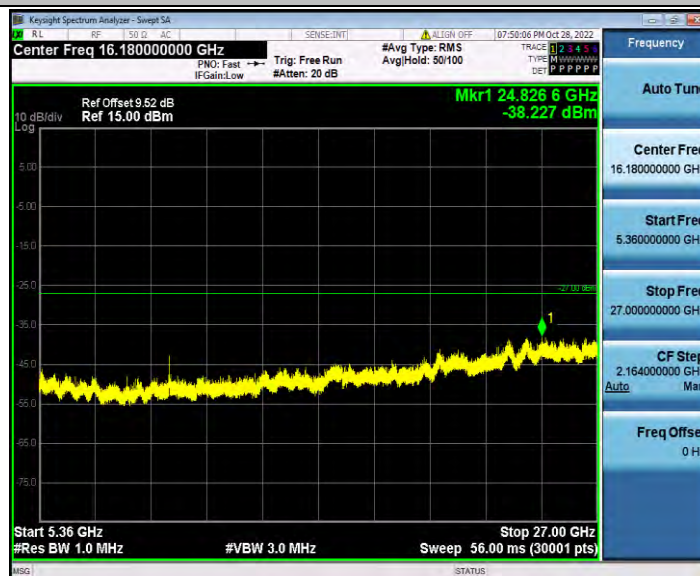
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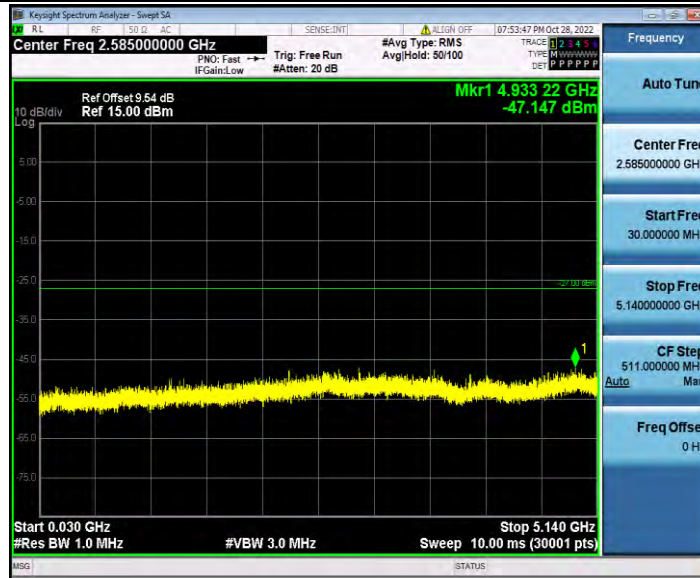
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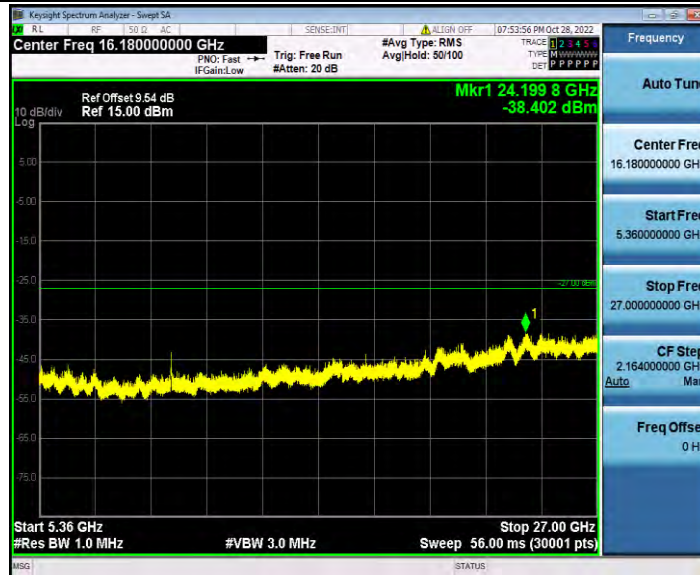
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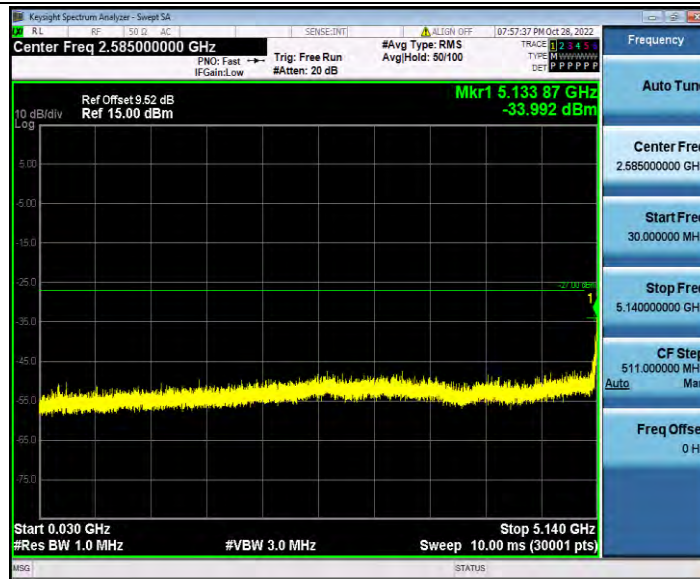
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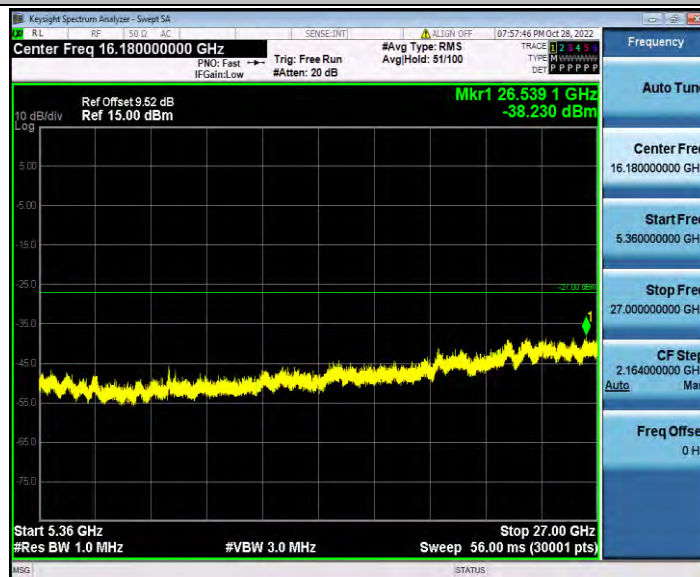
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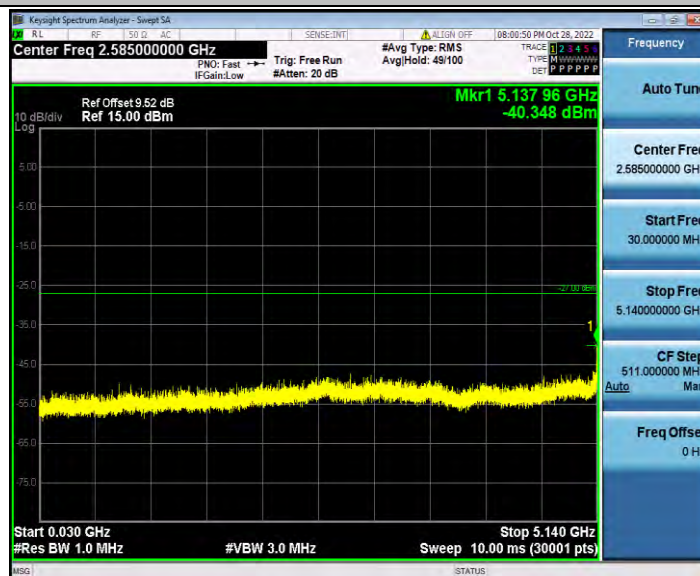
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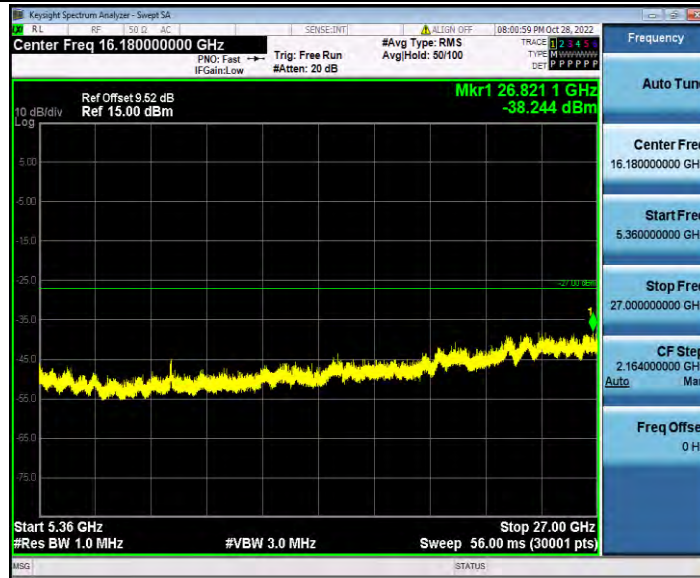
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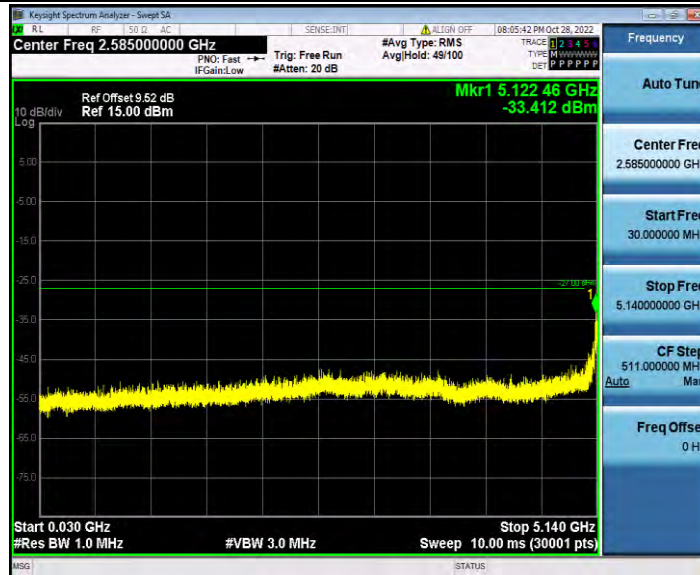
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11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_30~5140



11AC80SISO_Ant1_5210_5360~40000

