

Case No. : GTS20220704019-1-4	
Ambient Condition: 25 °C, 50 %RH,	
Test Date: 2022.8.10	Test Engineer: Jenny zeng

Appendix E.1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.840	5169.640	5190.480	---	---
		5200	20.560	5189.760	5210.320	---	---
		5240	21.120	5229.560	5250.680	---	---
11N20SISO	Ant1	5180	22.040	5169.200	5191.240	---	---
		5200	21.240	5189.160	5210.400	---	---
		5240	21.440	5229.200	5250.640	---	---
11N40SISO	Ant1	5190	42.080	5169.200	5211.280	---	---
		5230	41.840	5209.200	5251.040	---	---
11AC20SISO	Ant1	5180	21.840	5169.080	5190.920	---	---
		5200	21.280	5189.360	5210.640	---	---
		5240	21.320	5229.280	5250.600	---	---
11AC40SISO	Ant1	5190	42.640	5169.120	5211.760	---	---
		5230	44.160	5208.320	5252.480	---	---
11AC80SISO	Ant1	5210	81.920	5169.680	5251.600	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



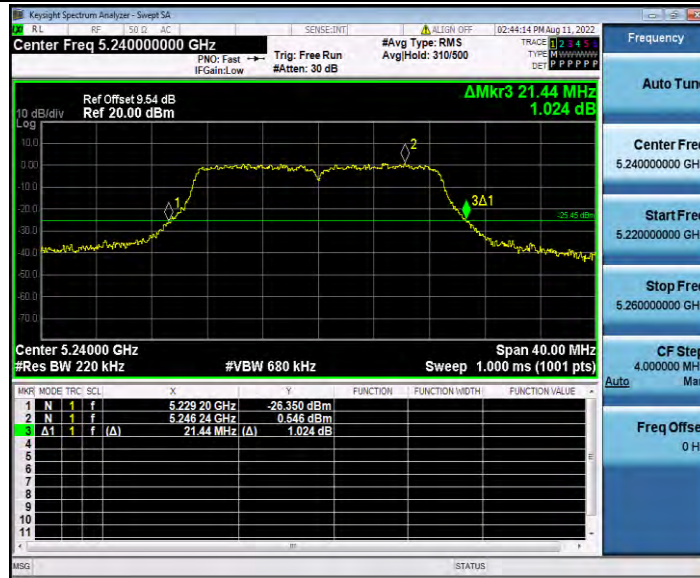
11N20SISO_Ant1_5180



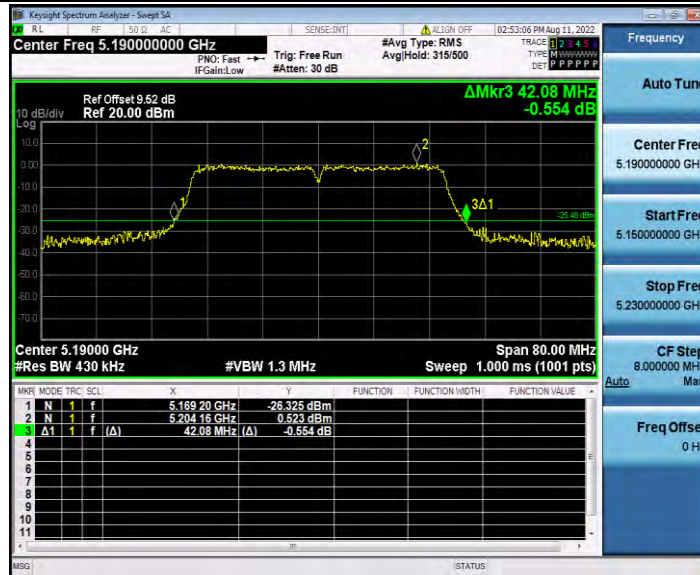
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



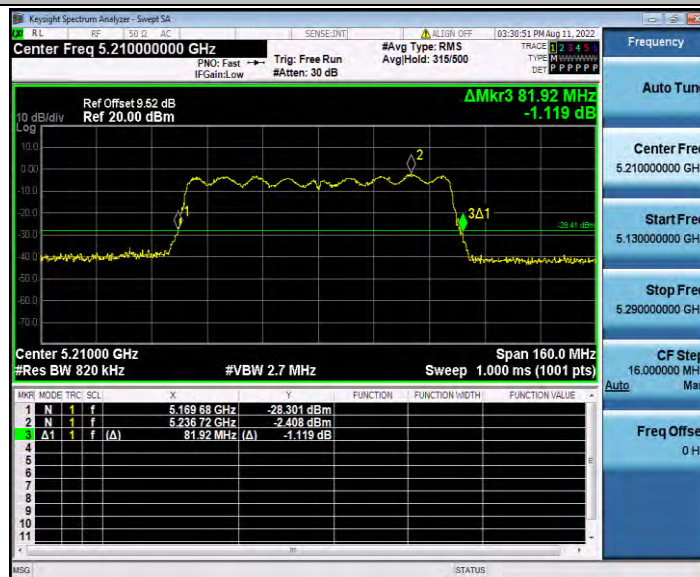
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



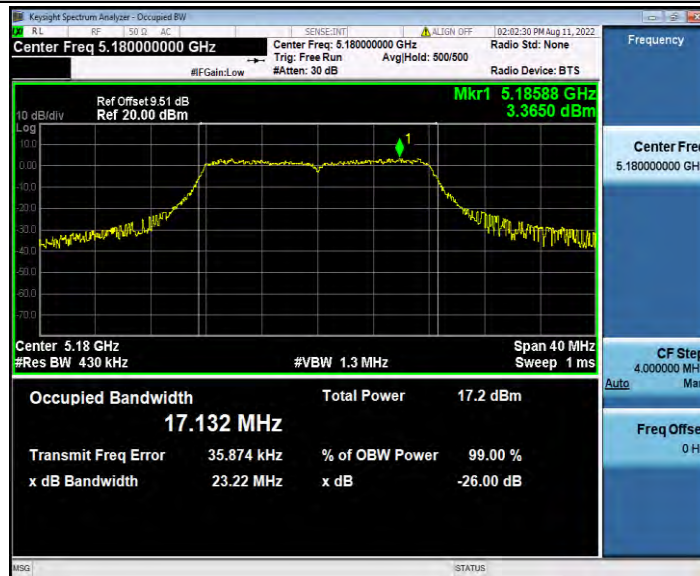
Appendix E.2: Occupied channel bandwidth

Test Result

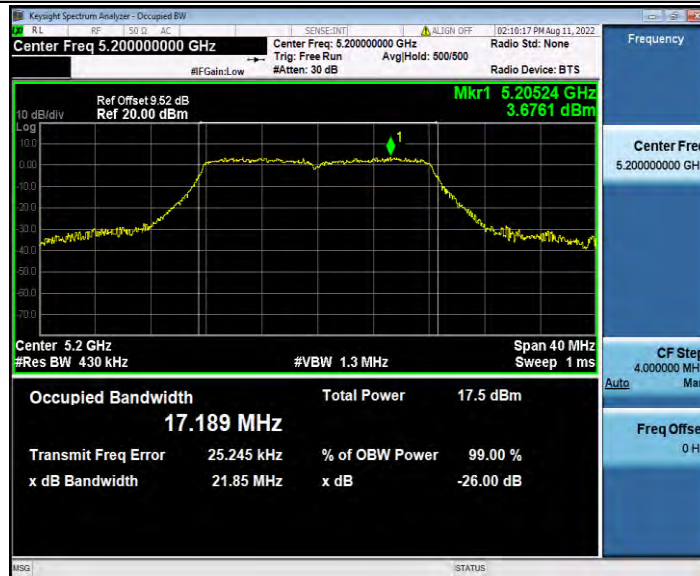
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.132	5171.470	5188.602	---	---
		5200	17.189	5191.431	5208.620	---	---
		5240	17.156	5231.412	5248.568	---	---
11N20SISO	Ant1	5180	18.164	5170.956	5189.120	---	---
		5200	17.992	5191.009	5209.001	---	---
		5240	18.092	5230.978	5249.070	---	---
11N40SISO	Ant1	5190	36.659	5171.783	5208.442	---	---
		5230	36.626	5211.651	5248.277	---	---
11AC20SISO	Ant1	5180	18.040	5170.993	5189.033	---	---
		5200	18.084	5190.961	5209.045	---	---
		5240	17.990	5230.972	5248.962	---	---
11AC40SISO	Ant1	5190	36.684	5171.777	5208.461	---	---
		5230	36.824	5211.643	5248.467	---	---
11AC80SISO	Ant1	5210	75.851	5172.189	5248.040	---	---

Test Graphs

11A_Ant1_5180



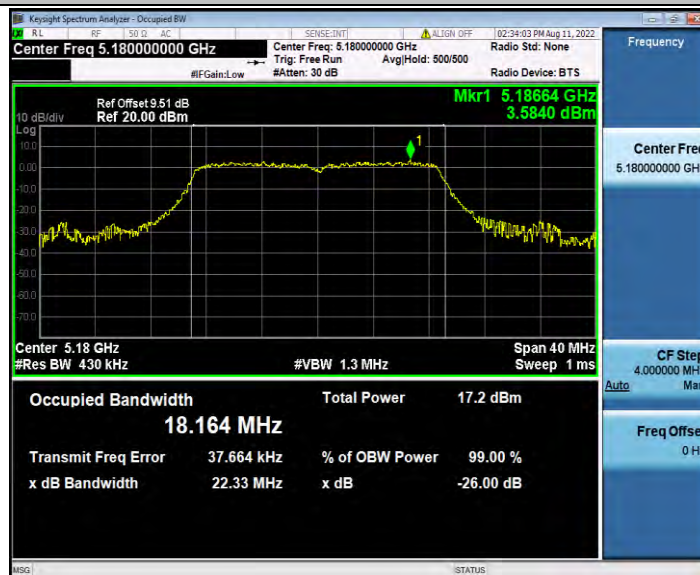
11A_Ant1_5200



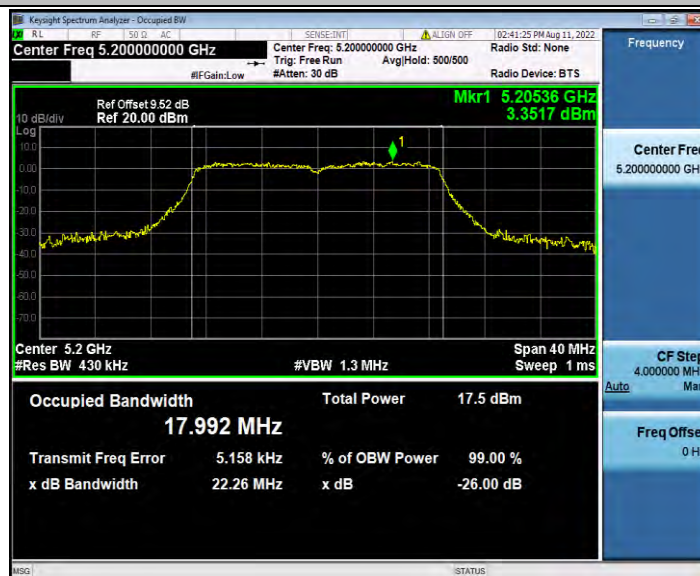
11A_Ant1_5240



11N20SISO_Ant1_5180



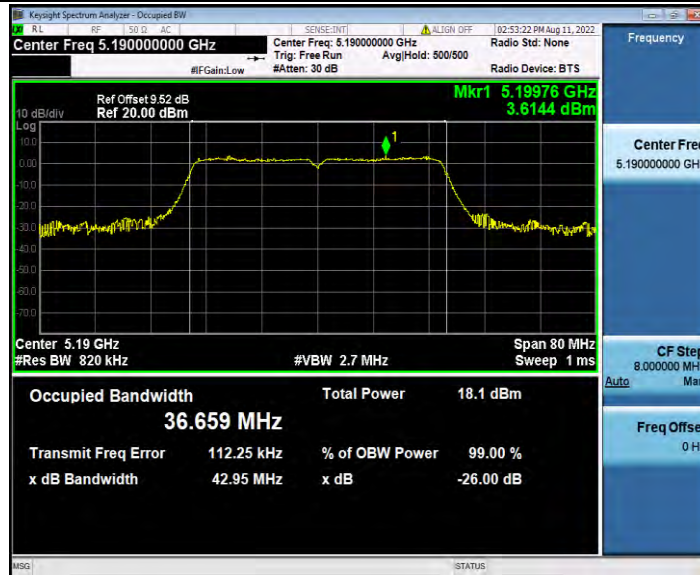
11N20SISO_Ant1_5200



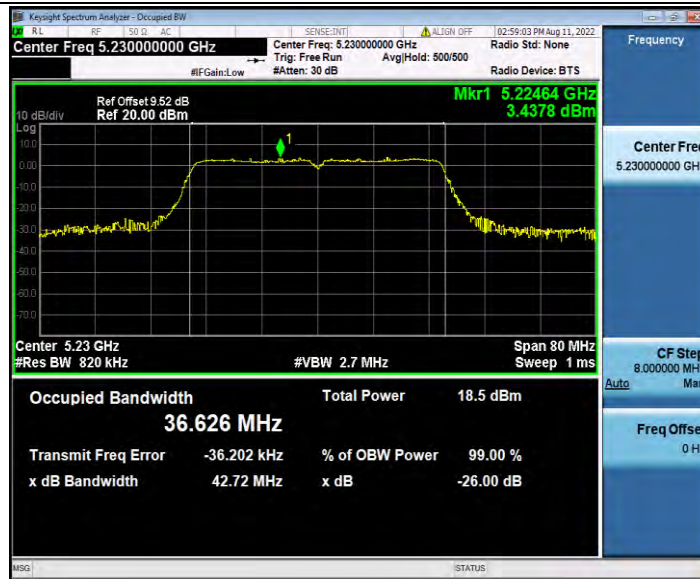
11N20SISO_Ant1_5240



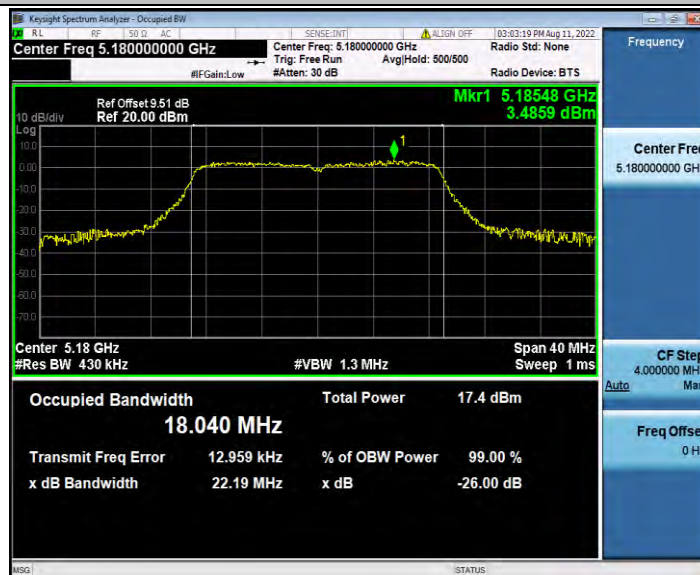
11N40SISO_Ant1_5190



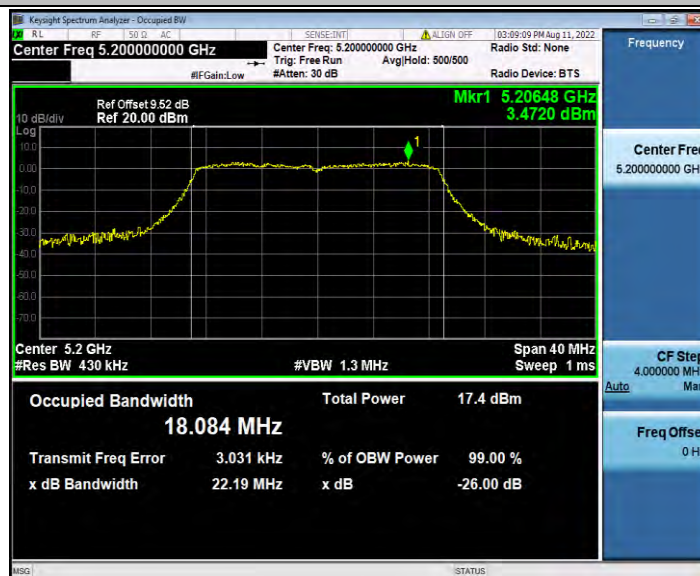
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



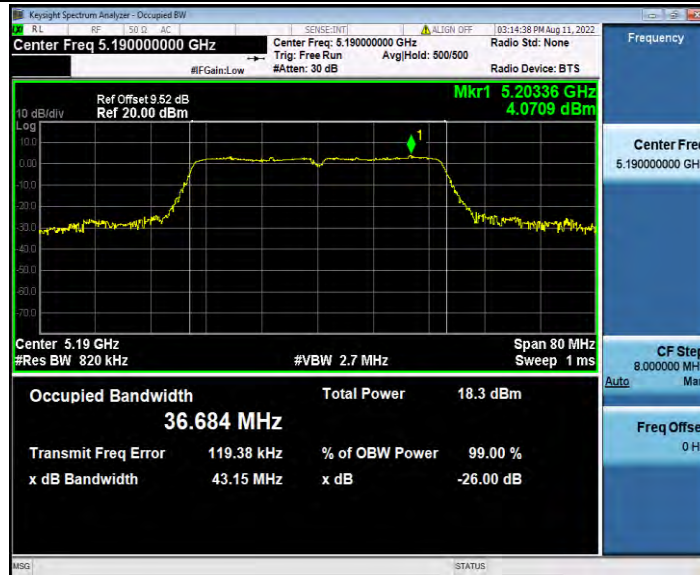
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



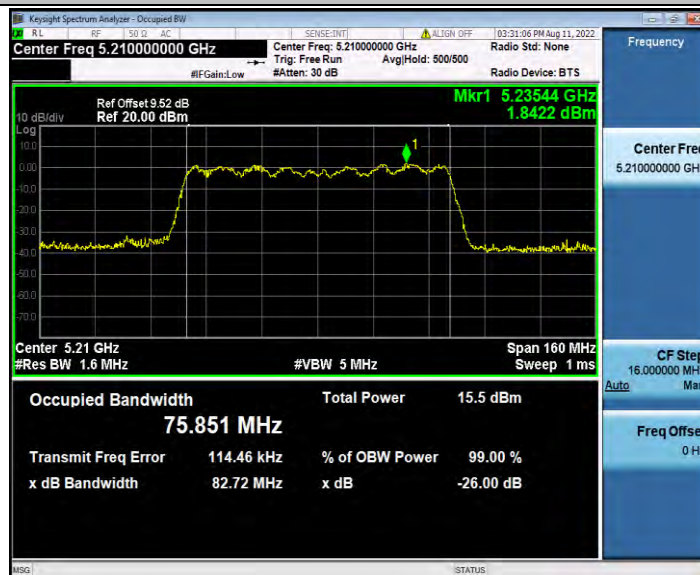
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



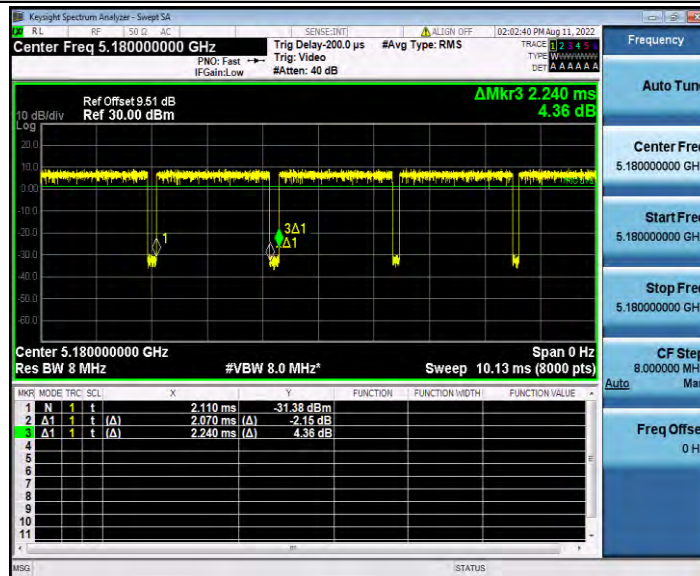
Appendix E.3: Duty Cycle

Test Result

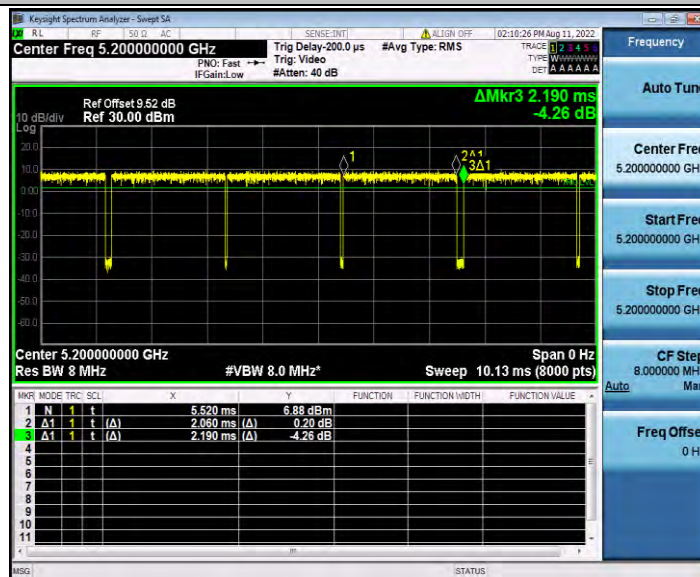
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.07	2.24	92.41
		5200	2.06	2.19	94.06
		5240	2.06	2.22	92.79
11N20SISO	Ant1	5180	1.92	2.00	96.00
		5200	1.92	2.09	91.87
		5240	1.92	2.02	95.05
11N40SISO	Ant1	5190	0.95	1.11	85.59
		5230	0.95	1.12	84.82
11AC20SISO	Ant1	5180	1.93	2.09	92.34
		5200	1.93	2.08	92.79
		5240	1.93	2.10	91.90
11AC40SISO	Ant1	5190	0.95	1.09	87.16
		5230	0.95	1.12	84.82
11AC80SISO	Ant1	5210	0.46	0.63	73.02

Test Graphs

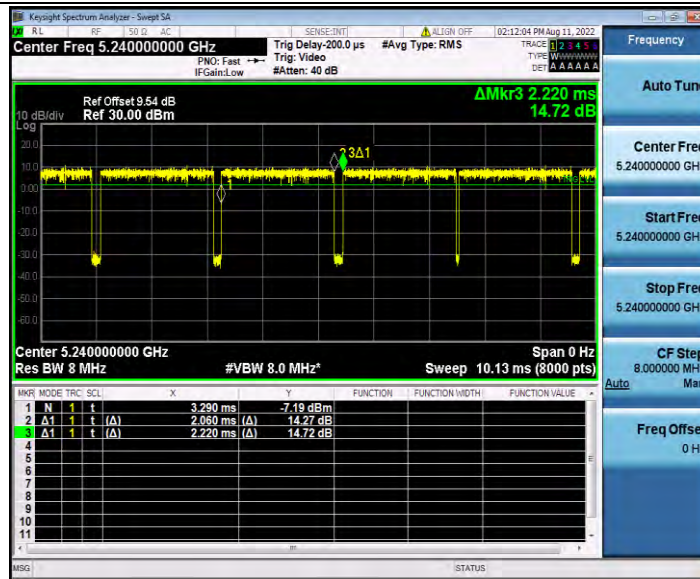
11A_Ant1_5180



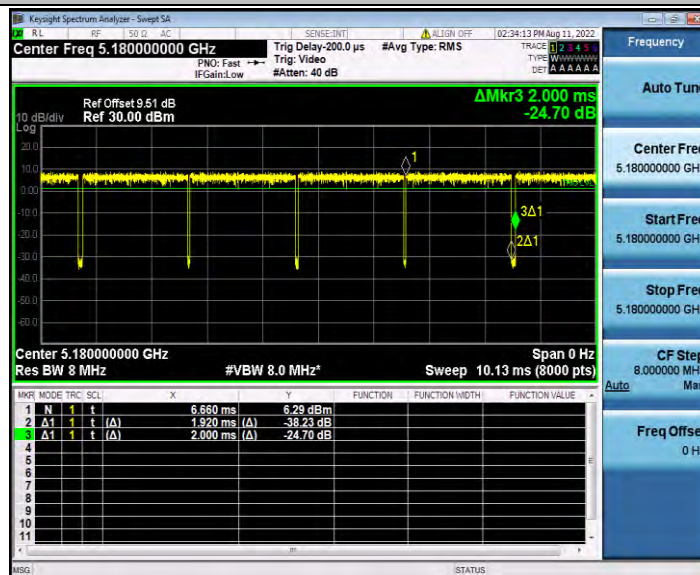
11A_Ant1_5200



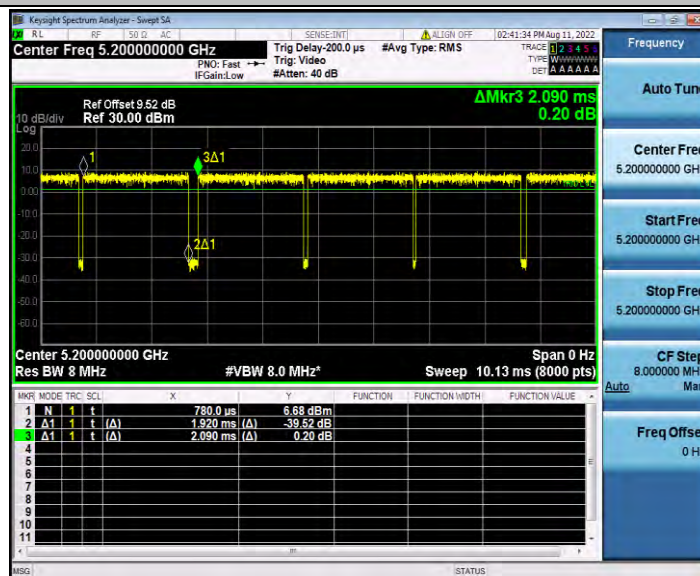
11A_Ant1_5240



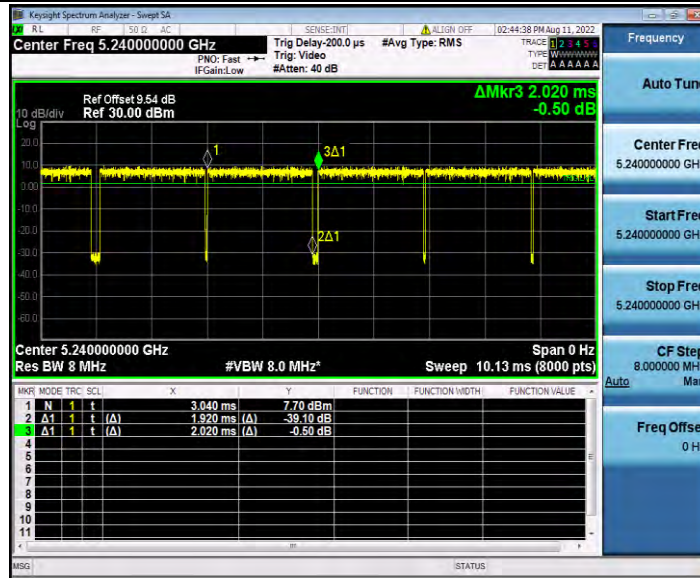
11N20SISO_Ant1_5180



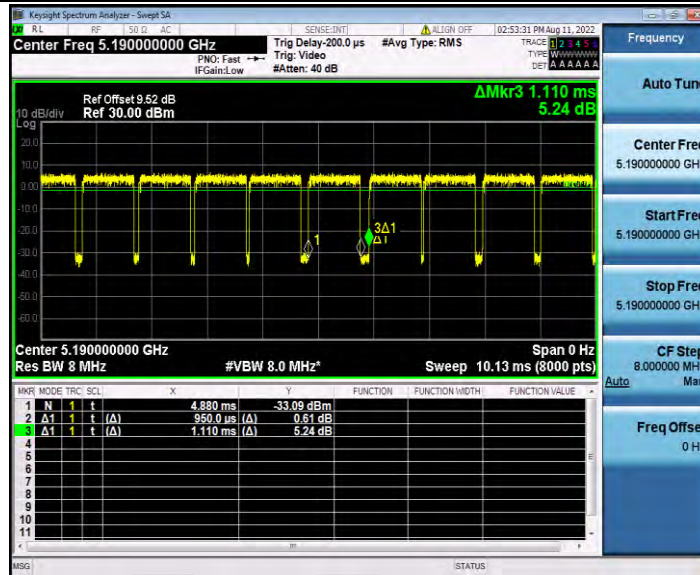
11N20SISO_Ant1_5200



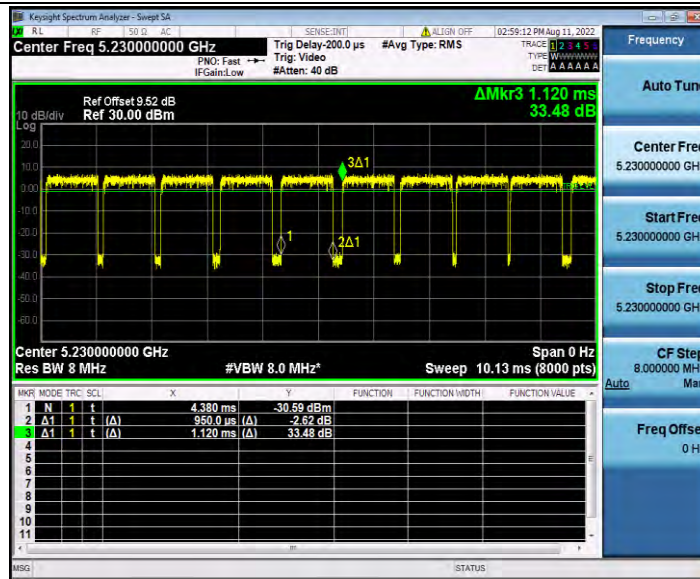
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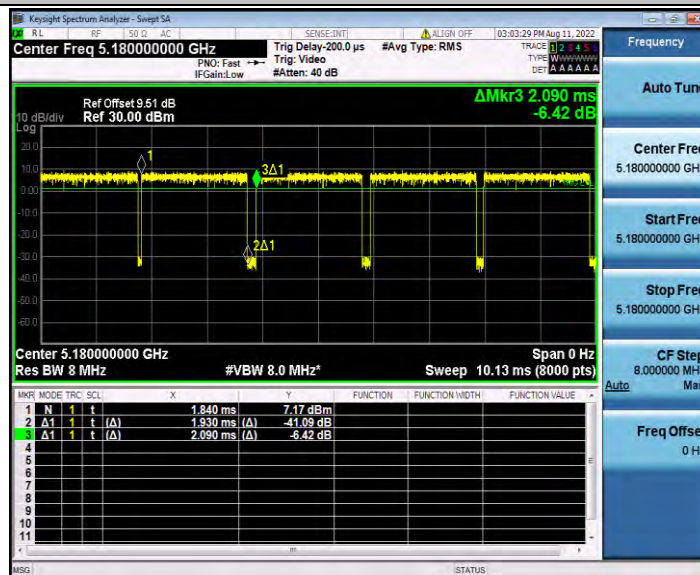
11N40SISO_Ant1_5190



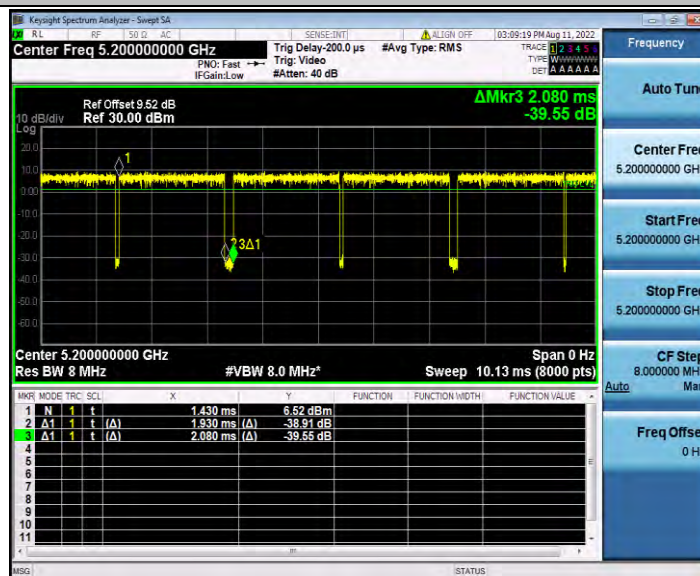
11N40SISO_Ant1_5230



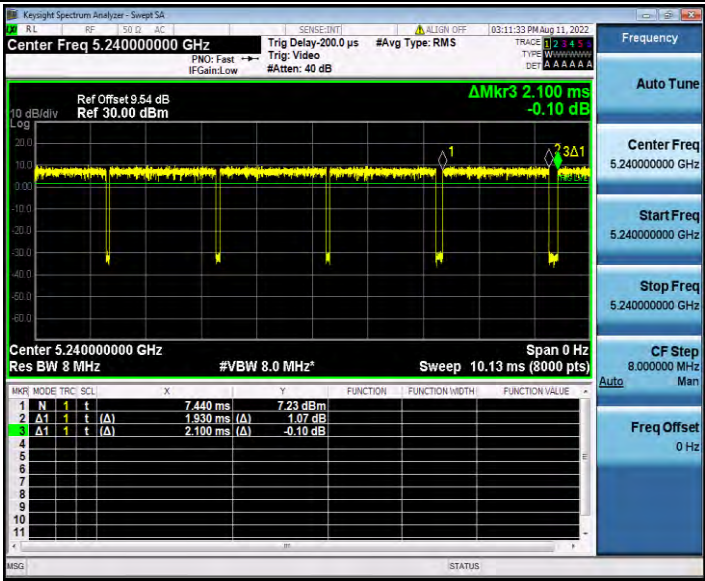
11AC20SISO_Ant1_5180



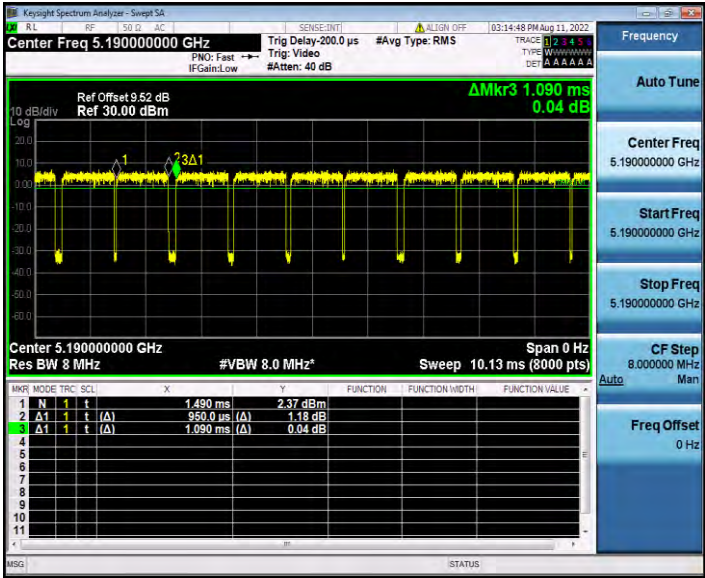
11AC20SISO_Ant1_5200



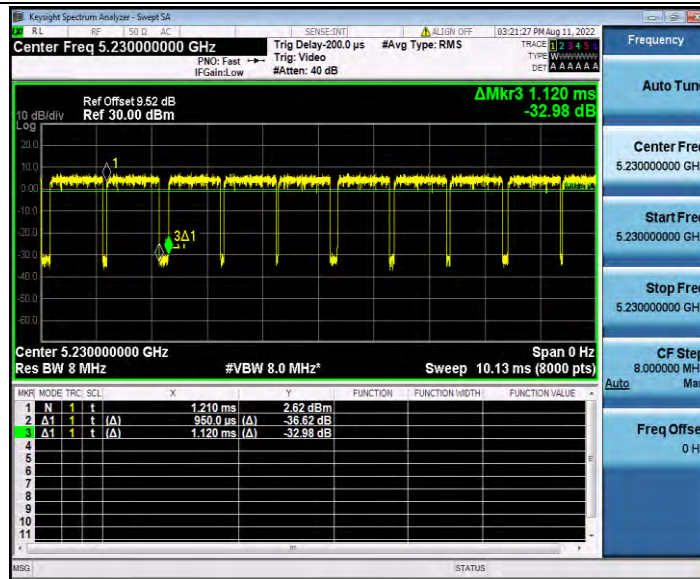
11AC20SISO_Ant1_5240



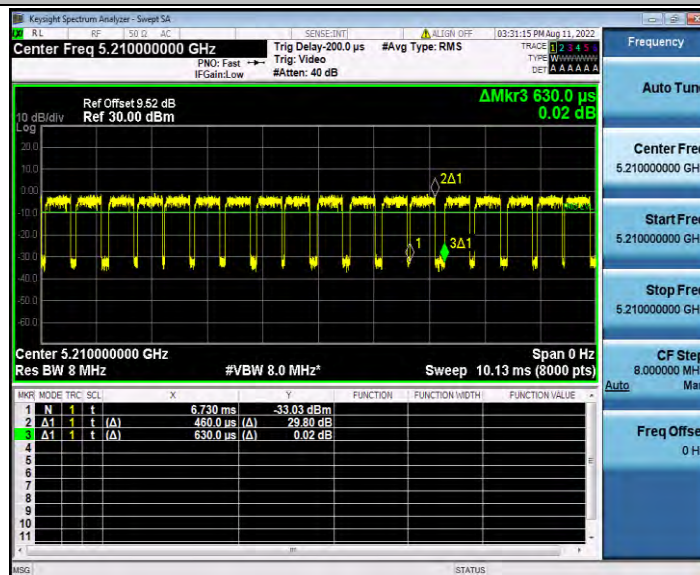
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



Appendix E.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	10.18	92.41	0.34	10.52	≤23.98	PASS
		5200	10.50	94.06	0.27	10.77	≤23.98	PASS
		5240	10.80	92.79	0.32	11.12	≤23.98	PASS
11N20SISO	Ant1	5180	10.31	96.00	0.18	10.49	≤23.98	PASS
		5200	10.39	91.87	0.37	10.76	≤23.98	PASS
		5240	10.66	95.05	0.22	10.88	≤23.98	PASS
11N40SISO	Ant1	5190	10.23	85.59	0.68	10.91	≤23.98	PASS
		5230	10.74	84.82	0.72	11.46	≤23.98	PASS
11AC20SISO	Ant1	5180	10.35	92.34	0.35	10.70	≤23.98	PASS
		5200	10.39	92.79	0.32	10.71	≤23.98	PASS
		5240	10.84	91.90	0.37	11.21	≤23.98	PASS
11AC40SISO	Ant1	5190	10.45	87.16	0.60	11.05	≤23.98	PASS
		5230	10.72	84.82	0.72	11.44	≤23.98	PASS
11AC80SISO	Ant1	5210	5.94	73.02	1.37	7.31	≤23.98	PASS

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

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	5.00	≤11.00	PASS
		5200	5.08	≤11.00	PASS
		5240	6.16	≤11.00	PASS
11N20SISO	Ant1	5180	5.02	≤11.00	PASS
		5200	5.54	≤11.00	PASS
		5240	5.96	≤11.00	PASS
11N40SISO	Ant1	5190	2.42	≤11.00	PASS
		5230	2.95	≤11.00	PASS
11AC20SISO	Ant1	5180	5.09	≤11.00	PASS
		5200	5.10	≤11.00	PASS
		5240	5.13	≤11.00	PASS
11AC40SISO	Ant1	5190	2.34	≤11.00	PASS
		5230	3.76	≤11.00	PASS
11AC80SISO	Ant1	5210	-2.58	≤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



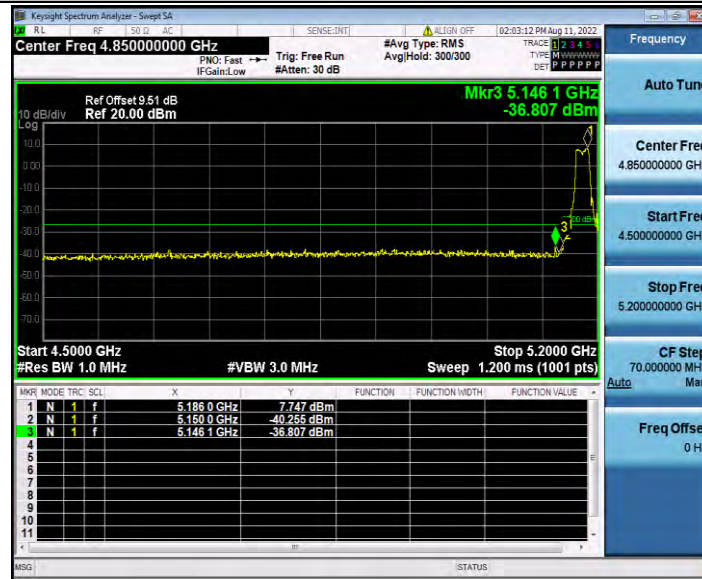
Appendix E.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-36.81	≤-27	PASS
		High	5240	-36.99	≤-27	PASS
11N20SISO	Ant1	Low	5180	-34.37	≤-27	PASS
		High	5240	-37.04	≤-27	PASS
11N40SISO	Ant1	Low	5190	-28.76	≤-27	PASS
		High	5230	-37.72	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-35.72	≤-27	PASS
		High	5240	-38.00	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-29.75	≤-27	PASS
		High	5230	-37.36	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-36.27	≤-27	PASS
		High	5210	-38.04	≤-27	PASS

Test Graphs B1

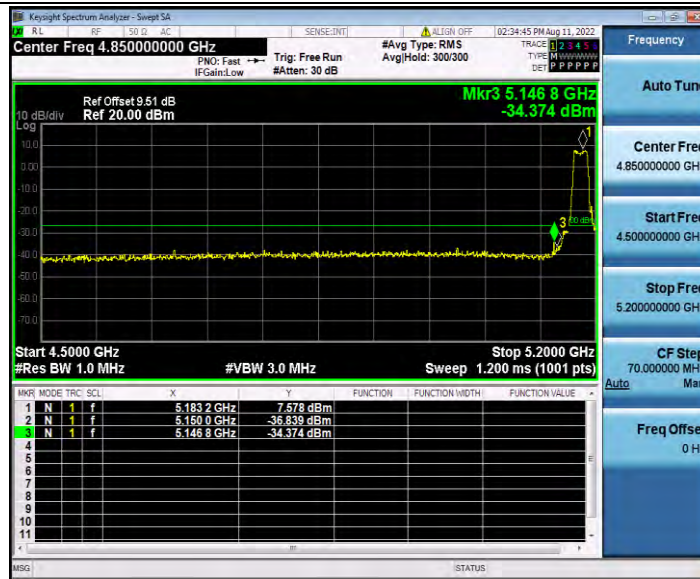
11A_Ant1_Low_5180



11A_Ant1_High_5240



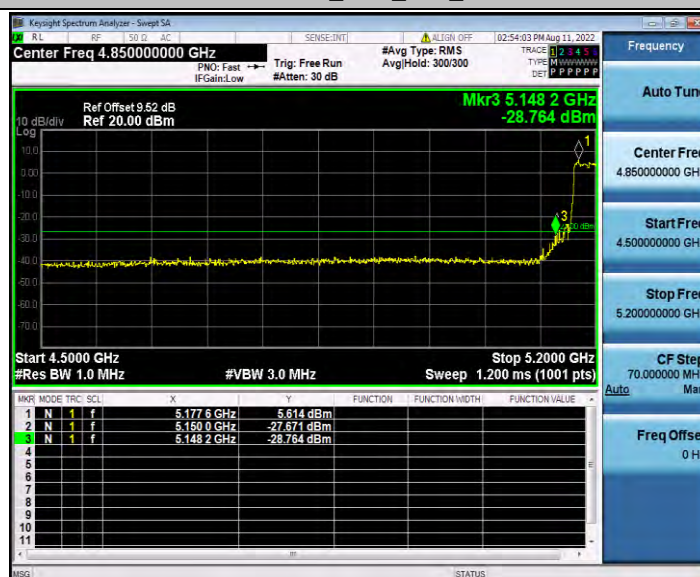
11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



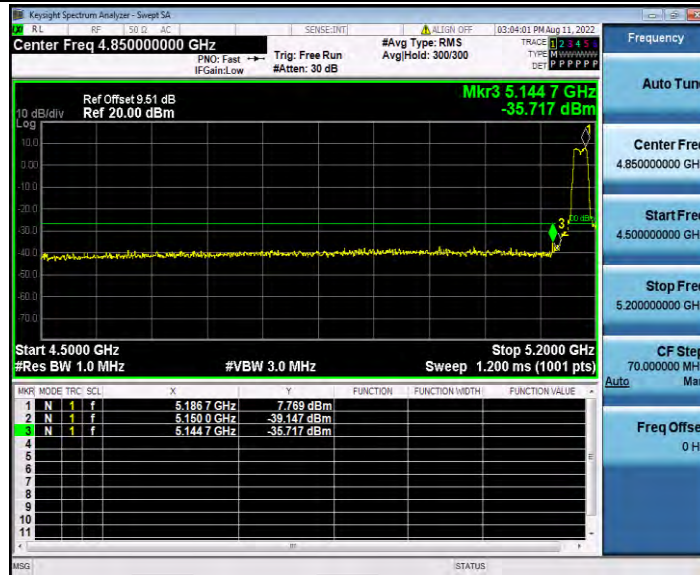
11N40SISO_Ant1_Low_5190



11N40SISO_Ant1_High_5230



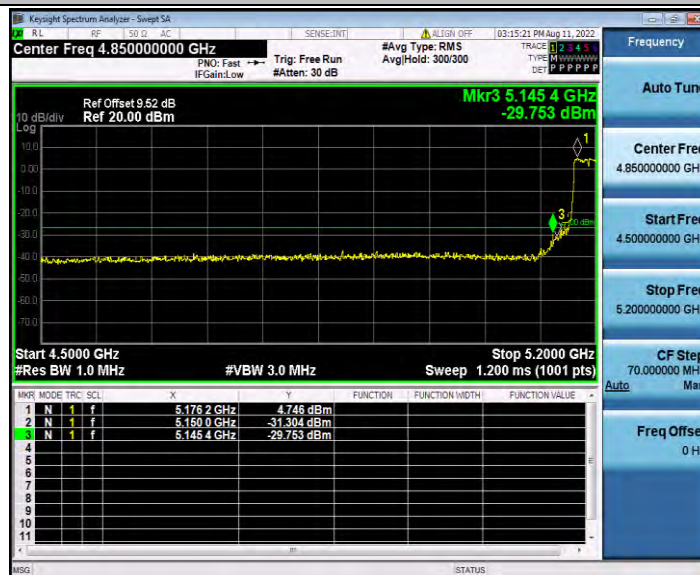
11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240



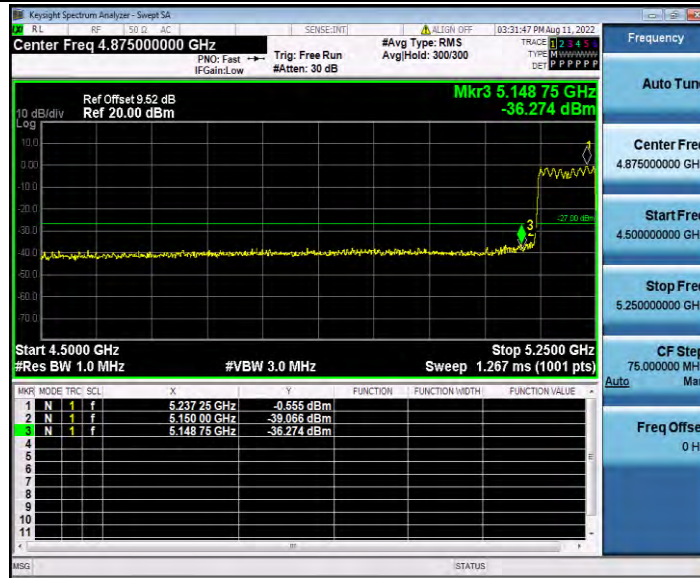
11AC40SISO_Ant1_Low_5190



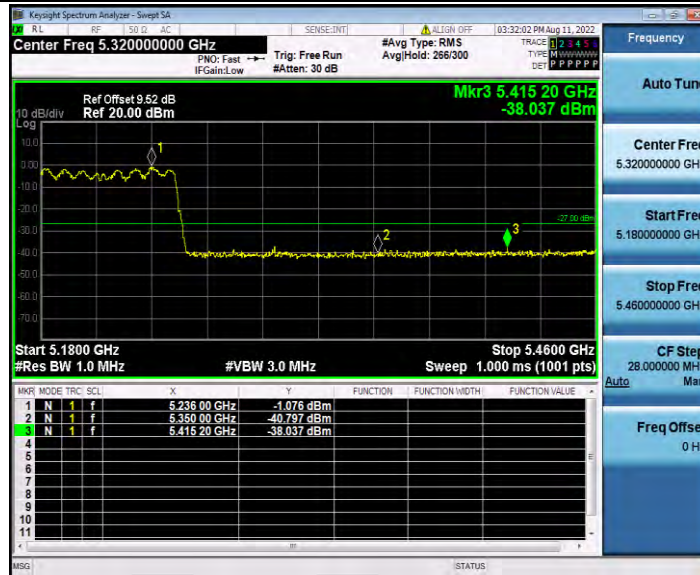
11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



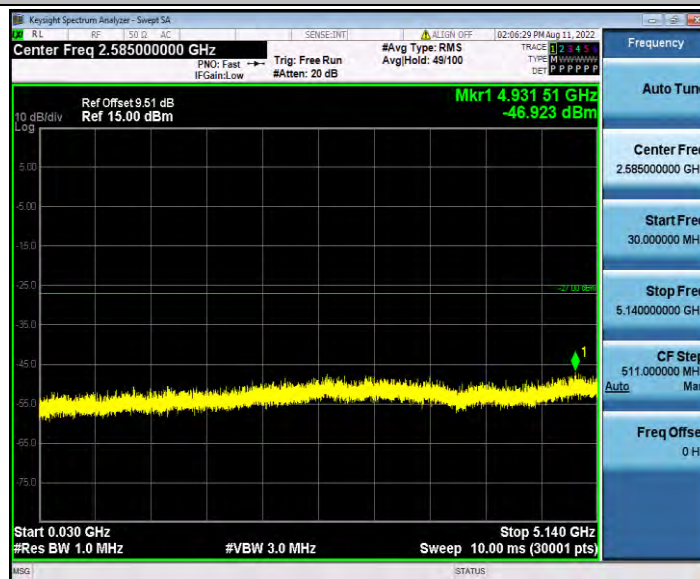
Appendix E.7: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	4931.51	-46.92	≤-27	PASS
			5360~40000	24266.15	-38.27	≤-27	PASS
		5200	30~5140	3158	-47.04	≤-27	PASS
			5360~40000	26831.93	-38.25	≤-27	PASS
		5240	30~5140	3062.61	-46.89	≤-27	PASS
			5360~40000	26056.5	-37.95	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5131.99	-46.76	≤-27	PASS
			5360~40000	25560.22	-37.73	≤-27	PASS
		5200	30~5140	2700.83	-47.27	≤-27	PASS
			5360~40000	26029.81	-38.3	≤-27	PASS
		5240	30~5140	4997.43	-45.92	≤-27	PASS
			5360~40000	24743.67	-38.39	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5133.87	-40.9	≤-27	PASS
			5360~40000	24276.25	-38.07	≤-27	PASS
		5230	30~5140	4968.47	-46.36	≤-27	PASS
			5360~40000	25042.3	-37.62	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	2668.97	-47.17	≤-27	PASS
			5360~40000	26826.16	-37.92	≤-27	PASS
		5200	30~5140	4919.08	-46.82	≤-27	PASS
			5360~40000	25269.52	-37.84	≤-27	PASS
		5240	30~5140	4963.19	-46.72	≤-27	PASS
			5360~40000	24880	-37.77	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5138.47	-38.88	≤-27	PASS
			5360~40000	24205.55	-38.07	≤-27	PASS
		5230	30~5140	3282.34	-46.86	≤-27	PASS
			5360~40000	24276.25	-37.81	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5135.06	-39.86	≤-27	PASS
			5360~40000	24763.87	-37.85	≤-27	PASS

Test Graphs

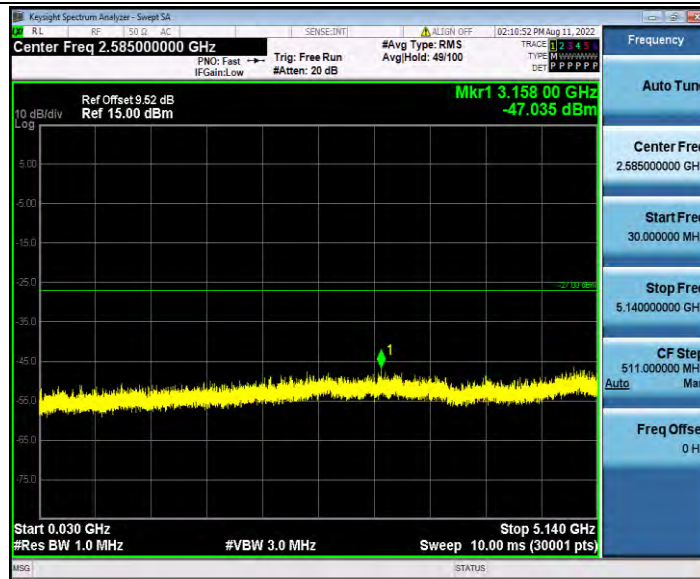
11A_Ant1_5180_30~5140



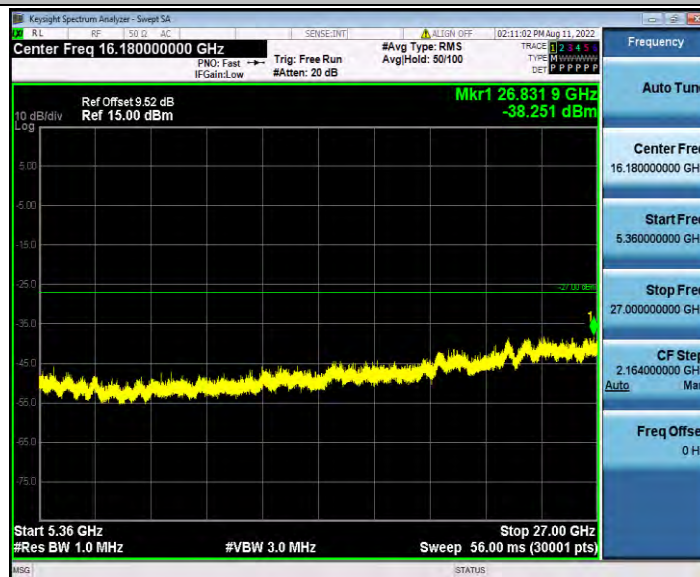
11A_Ant1_5180_5360~40000



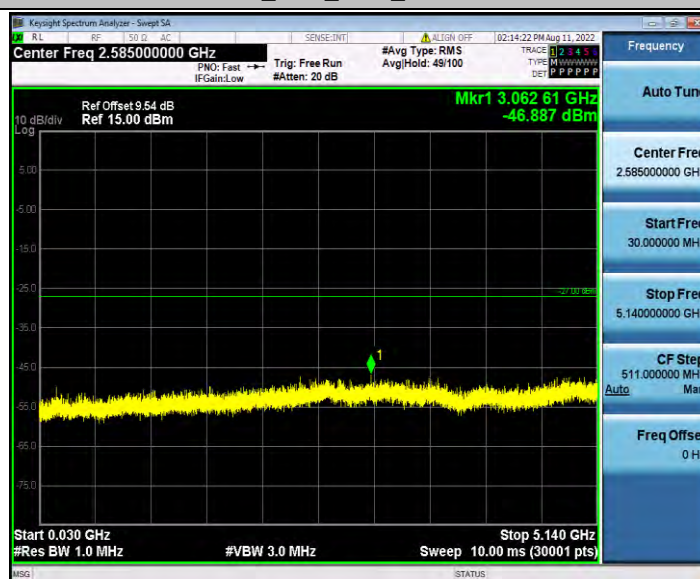
11A_Ant1_5200_30~5140



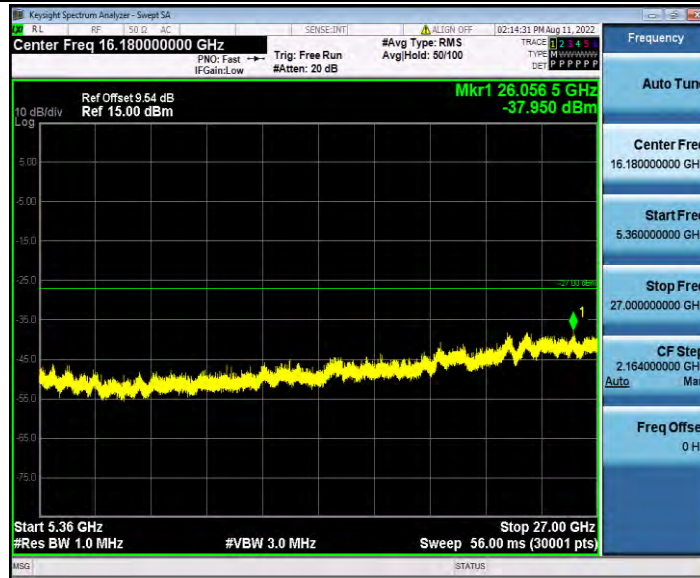
11A_Ant1_5200_5360~40000



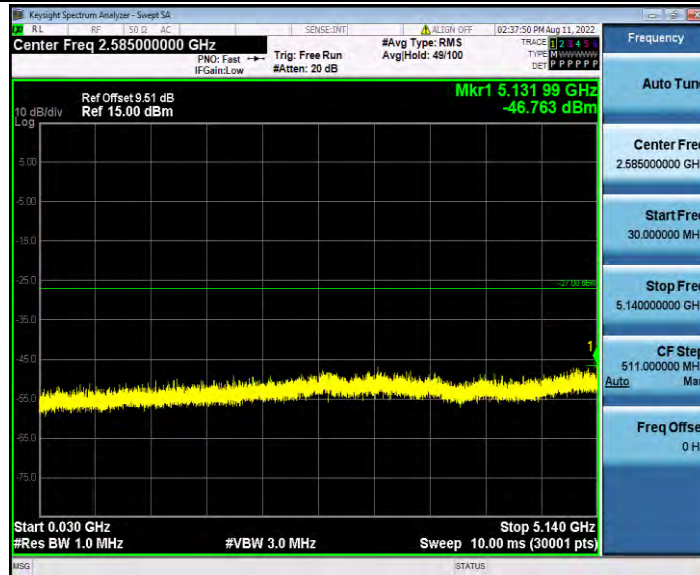
11A_Ant1_5240_30~5140



11A_Ant1_5240_5360~40000



11N20SISO_Ant1_5180_30~5140



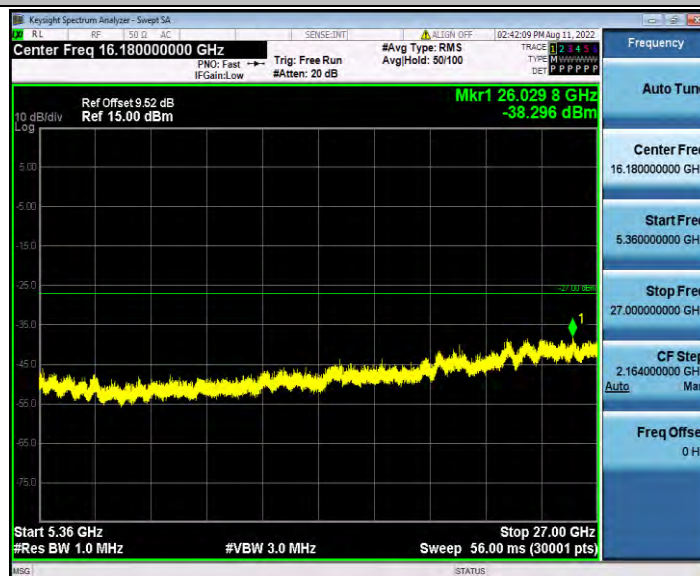
11N20SISO_Ant1_5180_5360~40000



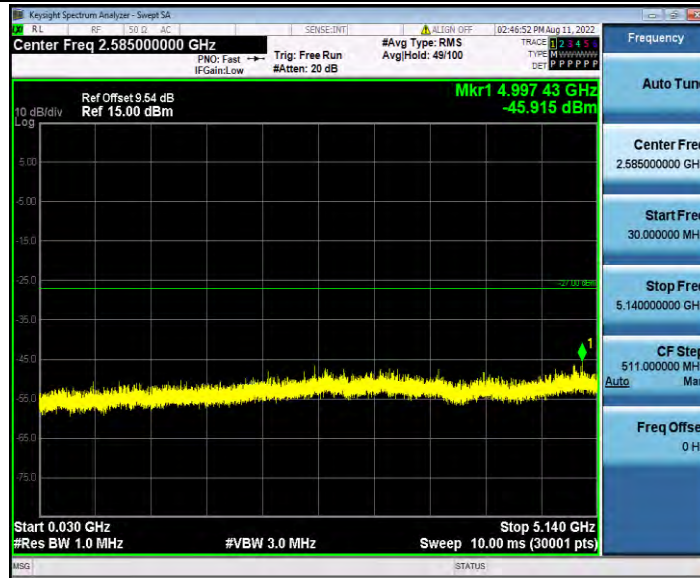
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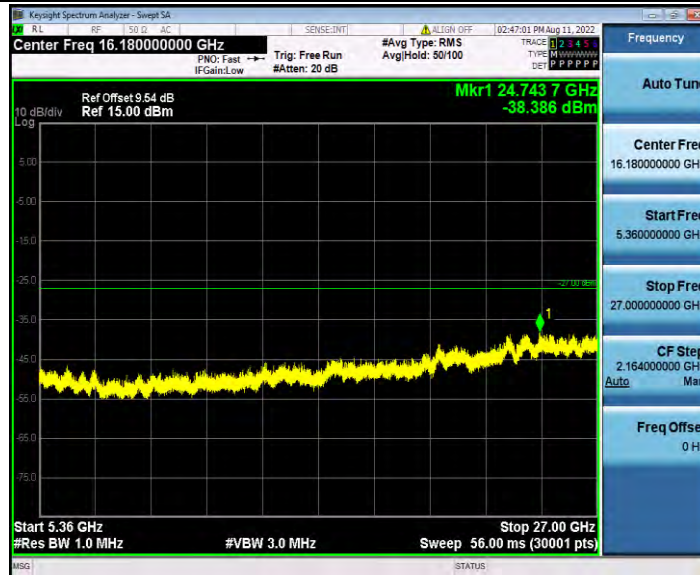
11N20SISO_Ant1_5200_5360~40000



11N20SISO_Ant1_5240_30~5140



11N20SISO_Ant1_5240_5360~40000



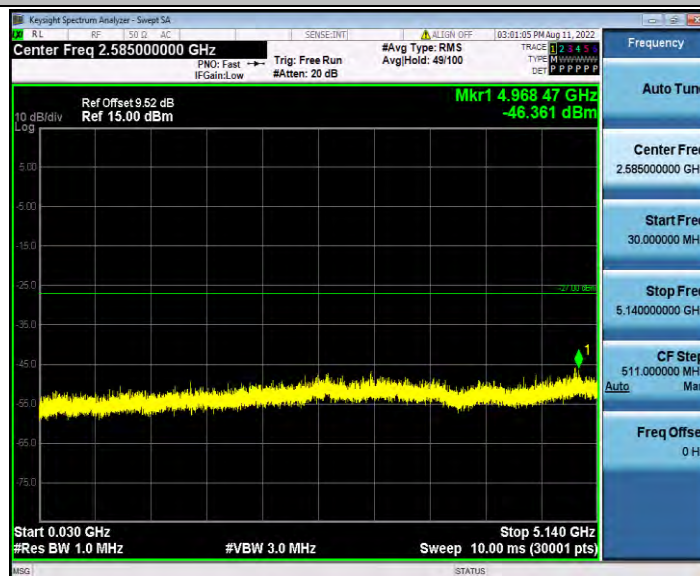
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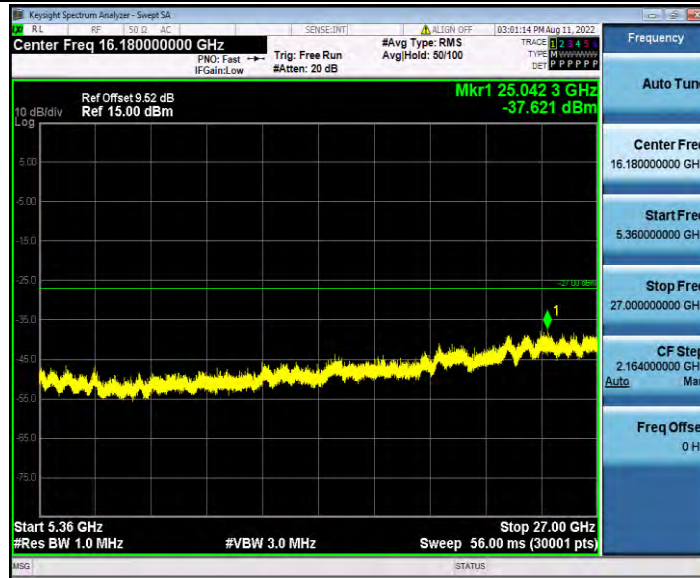
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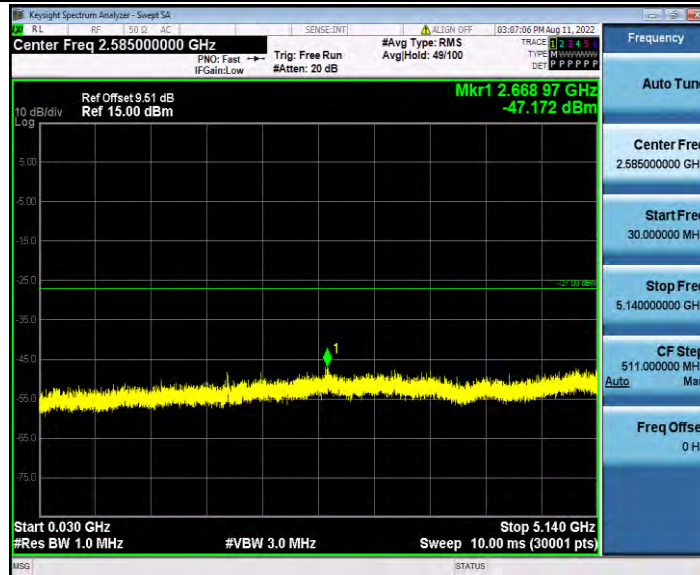
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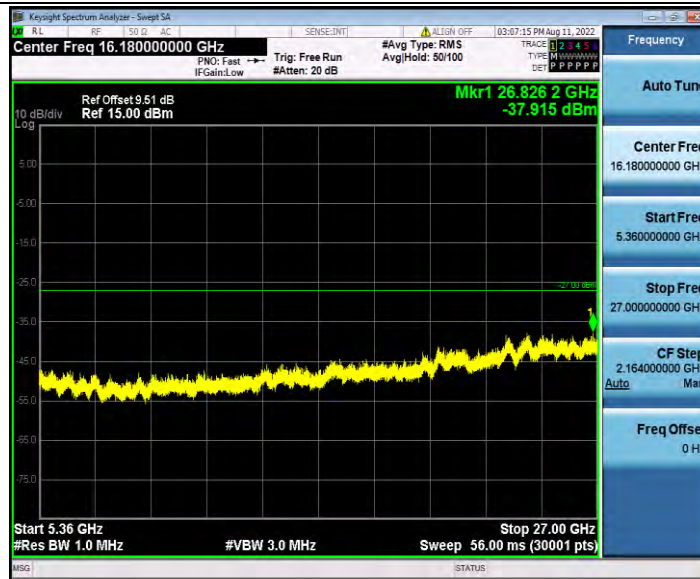
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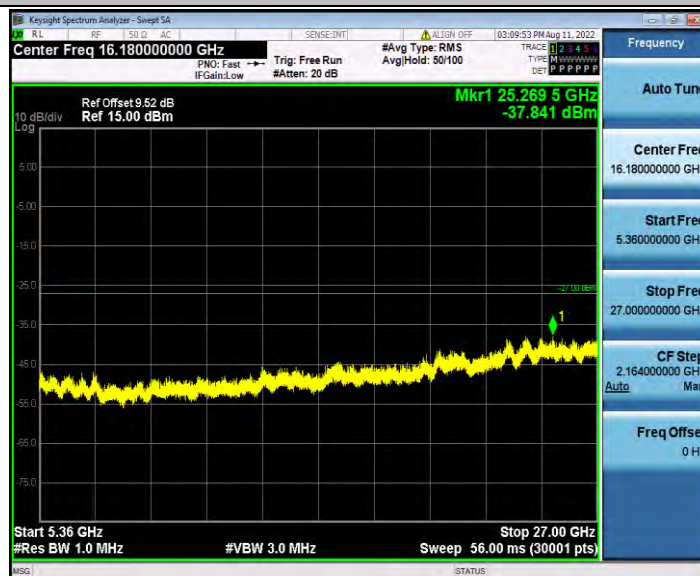
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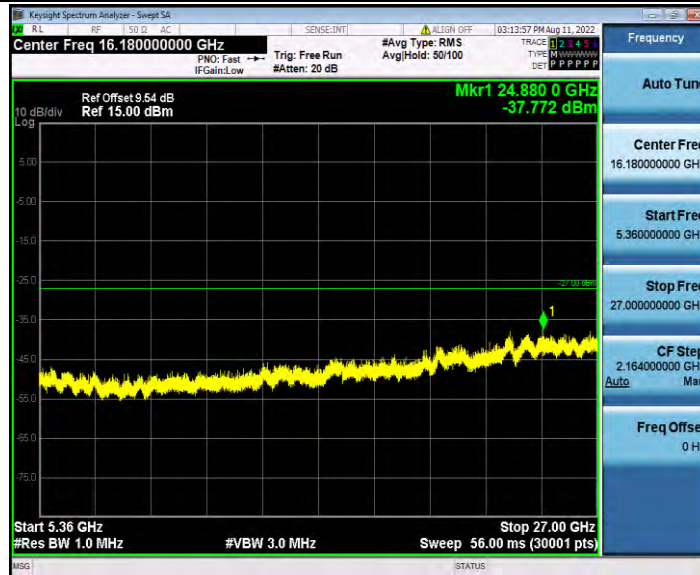
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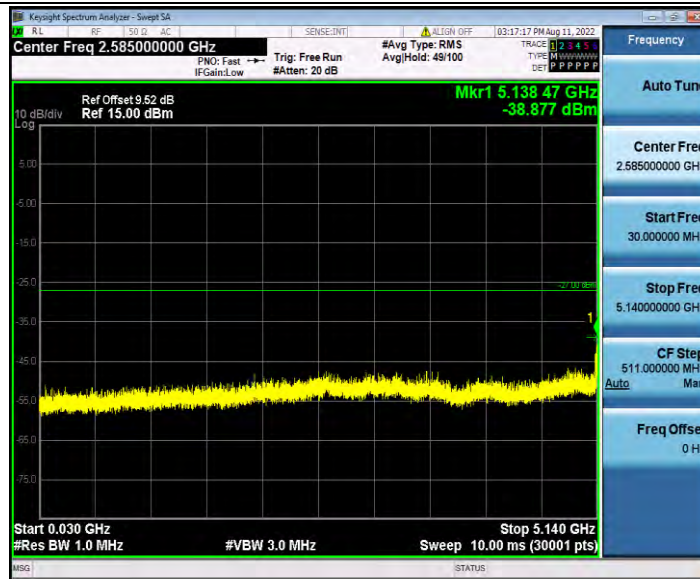
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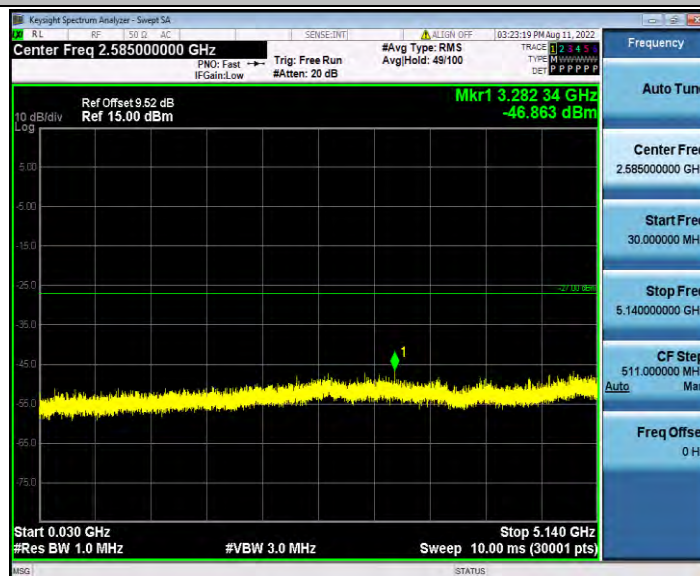
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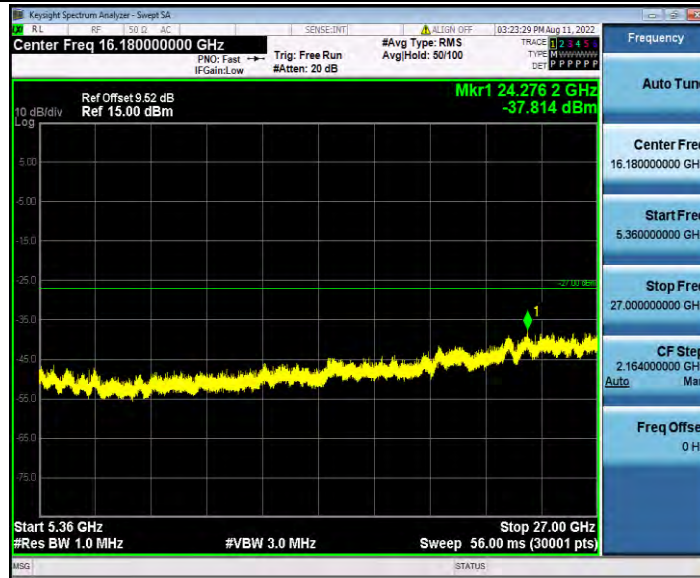
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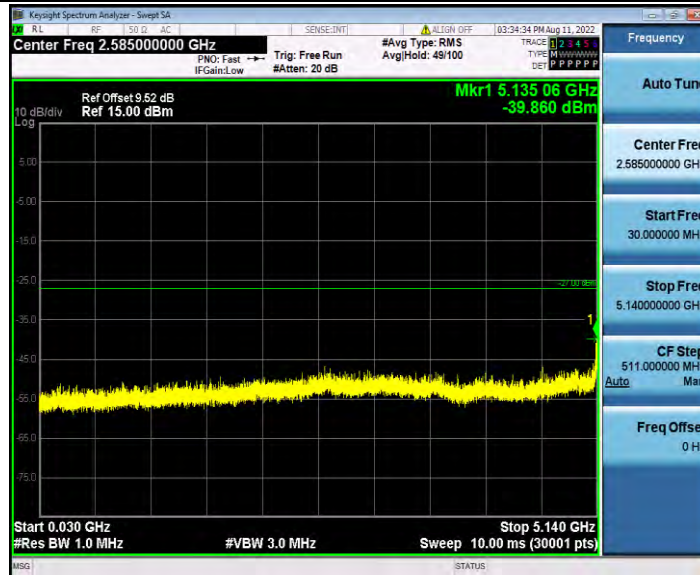
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11AC80SISO_Ant1_5210_30~5140



11AC80SISO_Ant1_5210_5360~40000

