

Case No. : GTS20220920004-2-13	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2022.12.16	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	20.240	5169.920	5190.160	---	---
		5200	24.080	5189.720	5213.800	---	---
		5240	24.920	5228.680	5253.600	---	---
11N20SISO	Ant1	5180	20.440	5169.840	5190.280	---	---
		5200	26.760	5187.640	5214.400	---	---
		5240	24.160	5228.280	5252.440	---	---
11N40SISO	Ant1	5190	40.240	5169.920	5210.160	---	---
		5230	50.800	5205.840	5256.640	---	---
11AC20SISO	Ant1	5180	20.320	5169.760	5190.080	---	---
		5200	24.680	5187.520	5212.200	---	---
		5240	23.400	5228.320	5251.720	---	---
11AC40SISO	Ant1	5190	40.720	5169.680	5210.400	---	---
		5230	60.320	5197.200	5257.520	---	---
11AC80SISO	Ant1	5210	81.120	5169.840	5250.960	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



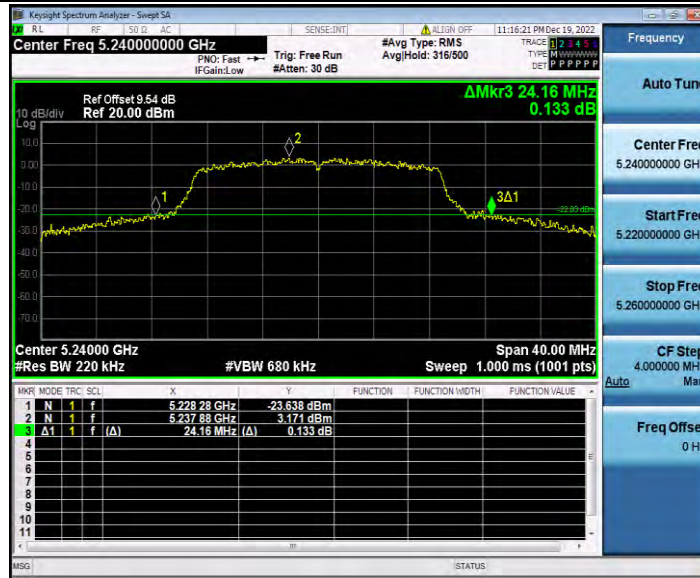
11N20SISO_Ant1_5180



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



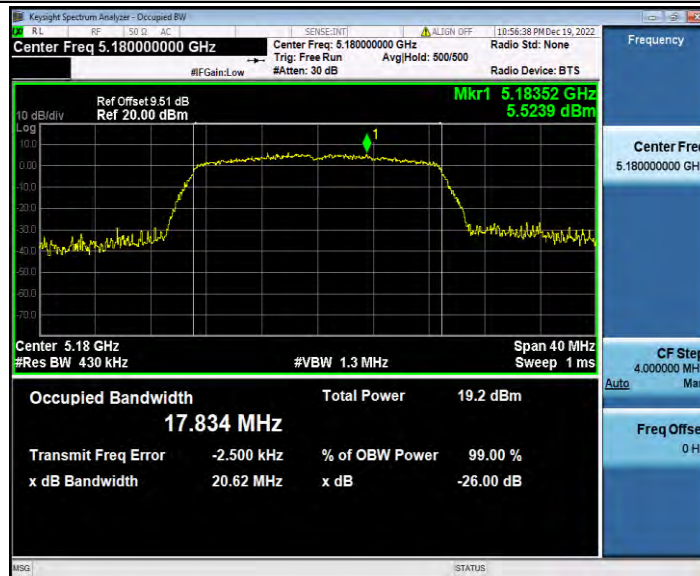
Appendix D.2: Occupied channel bandwidth

Test Result

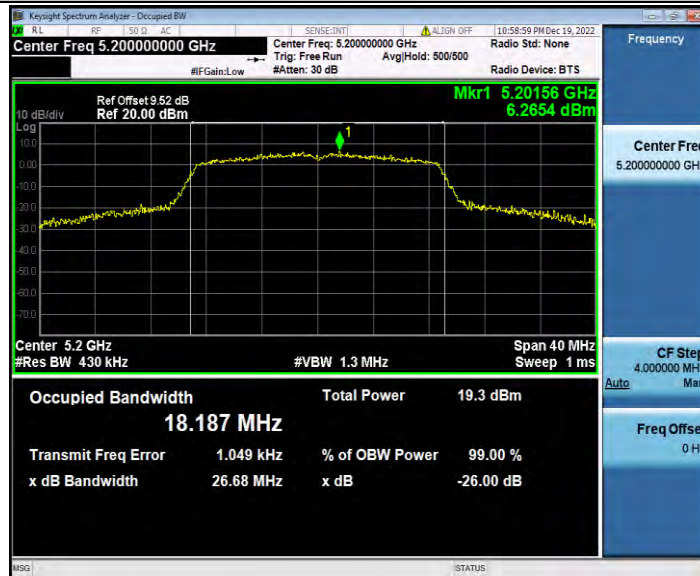
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.834	5171.081	5188.915	---	---
		5200	18.187	5190.908	5209.095	---	---
		5240	18.127	5230.934	5249.061	---	---
11N20SISO	Ant1	5180	17.841	5171.105	5188.946	---	---
		5200	18.140	5190.939	5209.079	---	---
		5240	18.160	5230.943	5249.103	---	---
11N40SISO	Ant1	5190	36.316	5171.906	5208.222	---	---
		5230	36.786	5211.664	5248.450	---	---
11AC20SISO	Ant1	5180	17.864	5171.050	5188.914	---	---
		5200	18.120	5190.966	5209.086	---	---
		5240	18.177	5230.921	5249.098	---	---
11AC40SISO	Ant1	5190	36.310	5171.894	5208.204	---	---
		5230	36.800	5211.674	5248.474	---	---
11AC80SISO	Ant1	5210	75.459	5172.370	5247.829	---	---

Test Graphs

11A_Ant1_5180



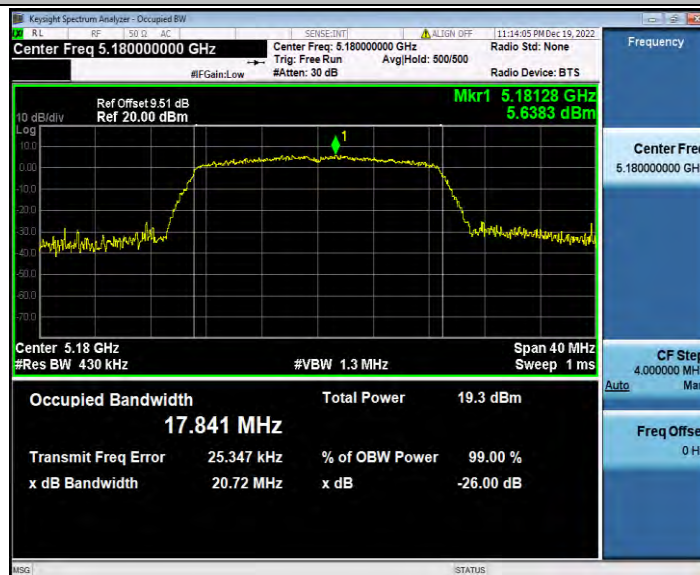
11A_Ant1_5200



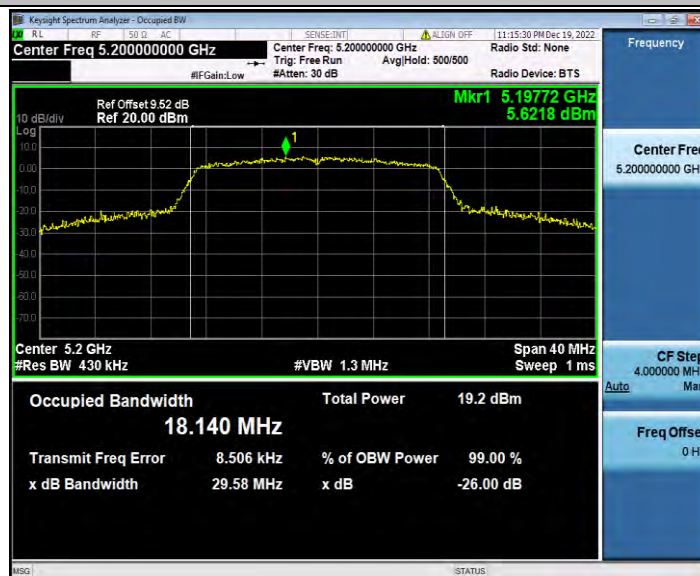
11A_Ant1_5240



11N20SISO_Ant1_5180



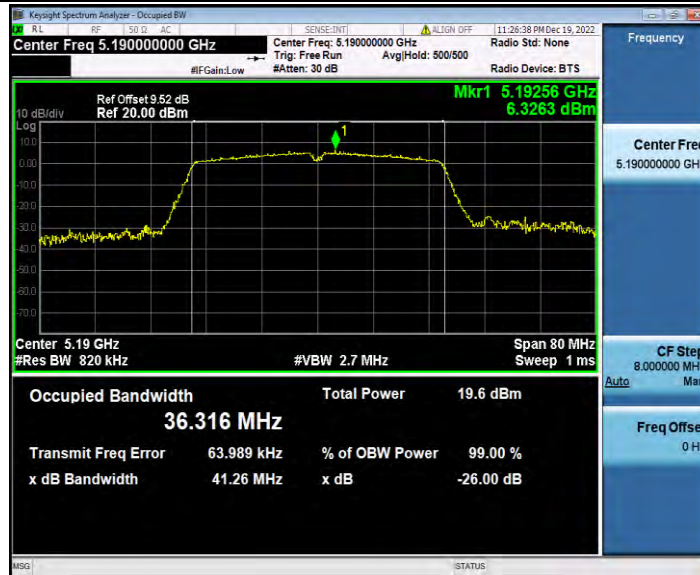
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



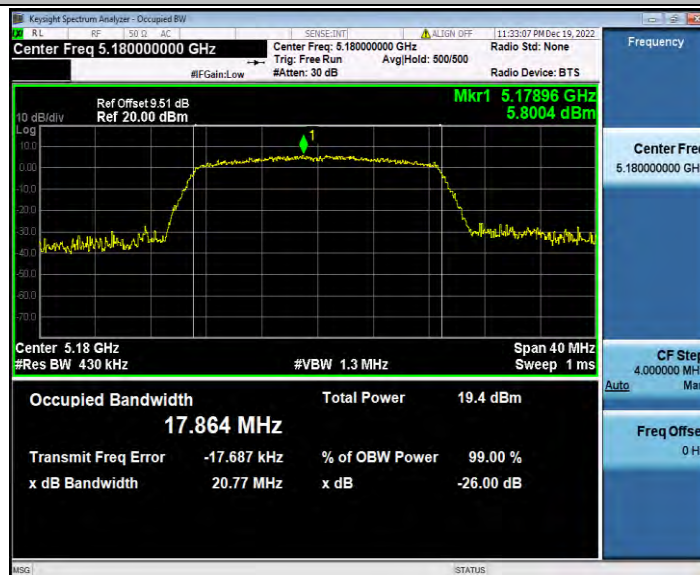
11N40SISO_Ant1_5190



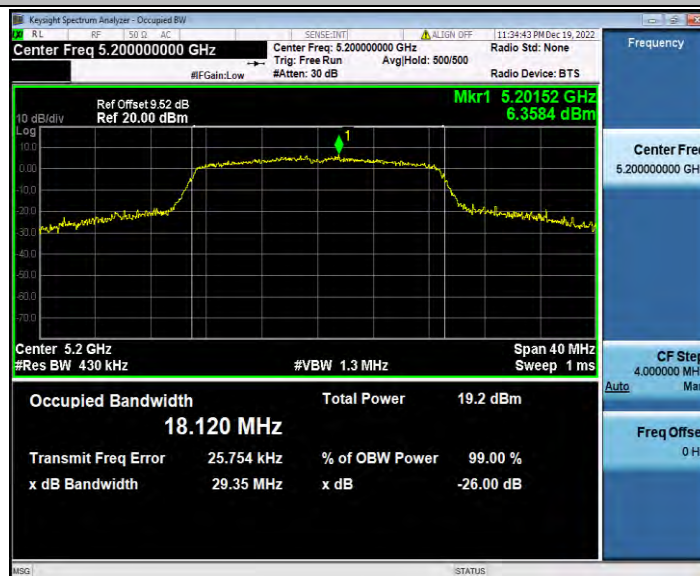
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5825



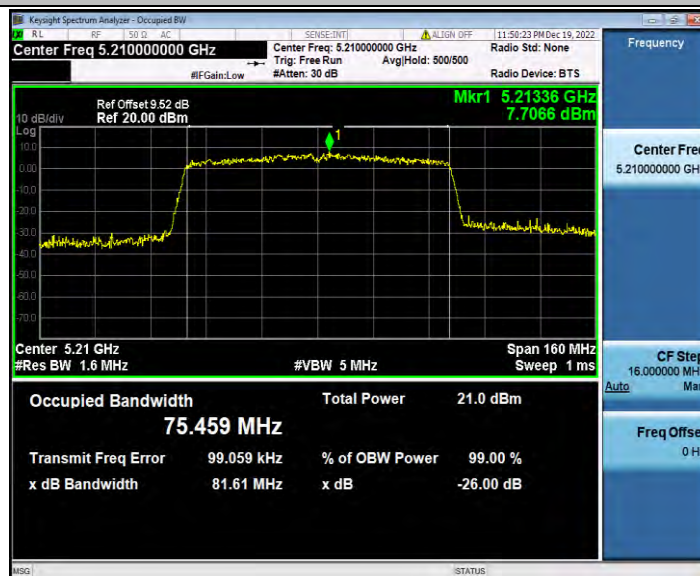
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



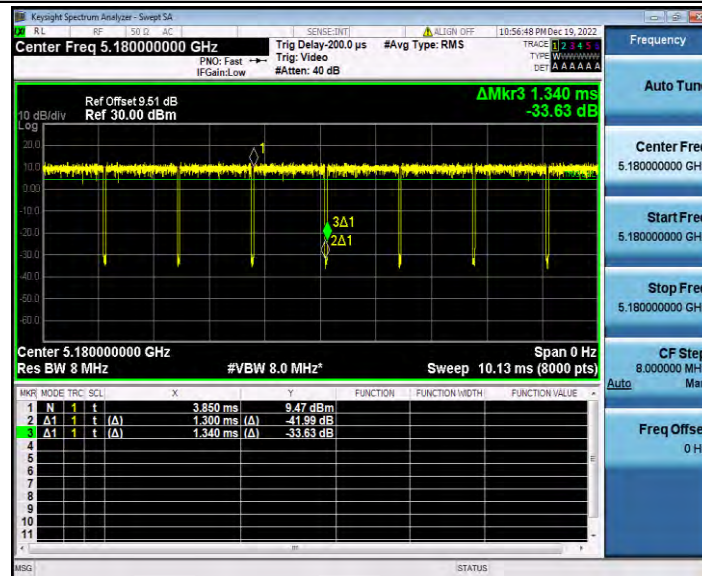
Appendix D.3: Duty Cycle

Test Result

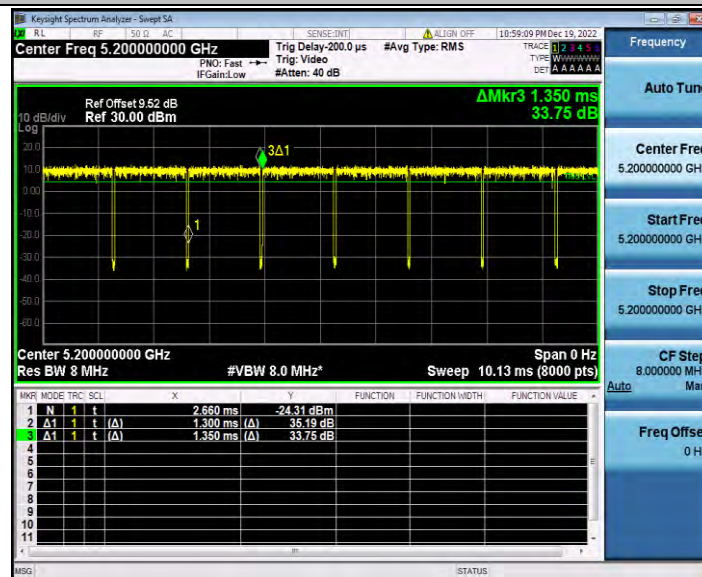
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.30	1.34	97.01
		5200	1.30	1.35	96.30
		5240	1.30	1.35	96.30
11N20SISO	Ant1	5180	1.30	1.34	97.01
		5200	1.30	1.34	97.01
		5240	1.30	1.34	97.01
11N40SISO	Ant1	5190	0.64	0.69	92.75
		5230	0.65	0.70	92.86
11AC20SISO	Ant1	5180	1.30	1.35	96.30
		5200	1.30	1.35	96.30
		5240	0.68	0.72	94.44
11AC40SISO	Ant1	5190	0.35	0.39	89.74
		5230	0.36	0.40	90.00
11AC80SISO	Ant1	5210	0.19	0.23	82.61

Test Graphs

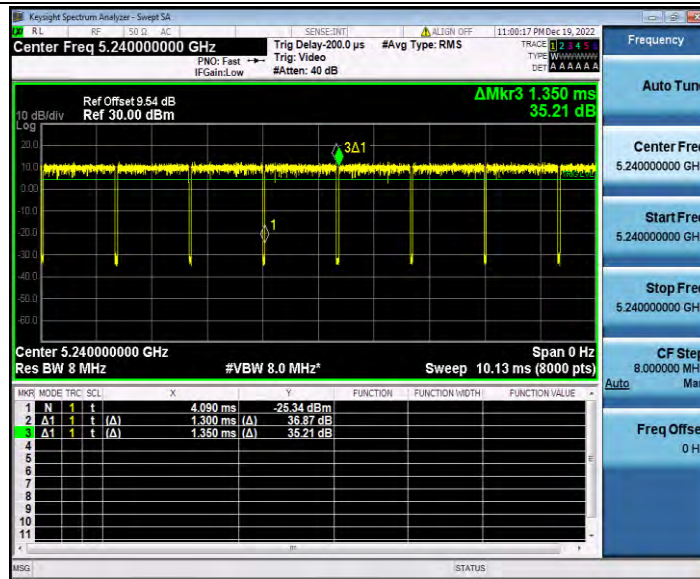
11A_Ant1_5180



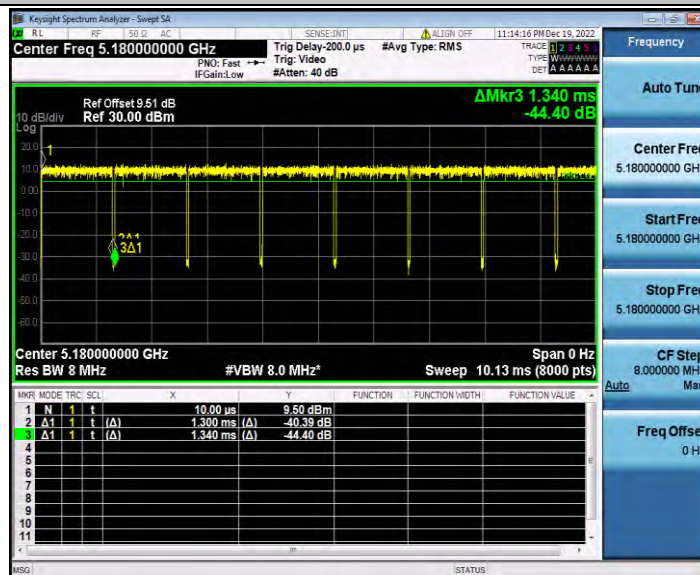
11A_Ant1_5200



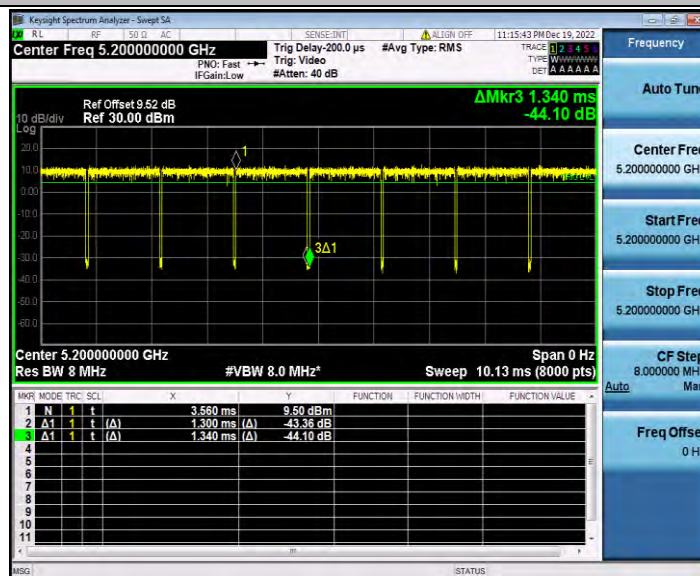
11A_Ant1_5240



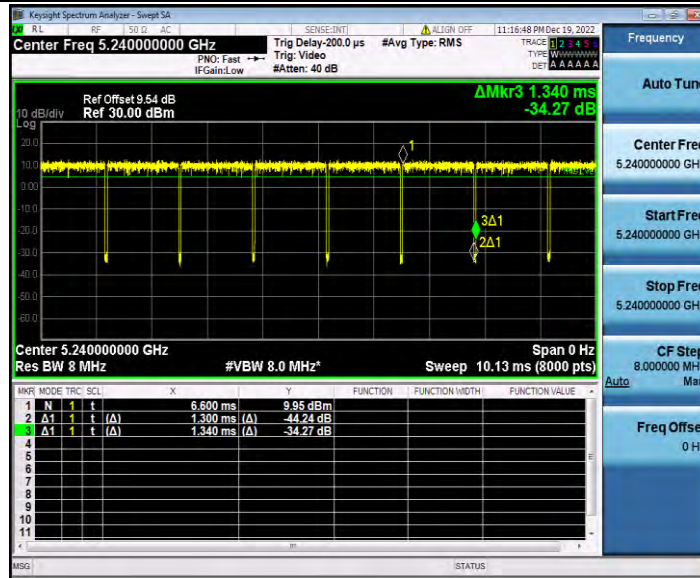
11N20SISO_Ant1_5180



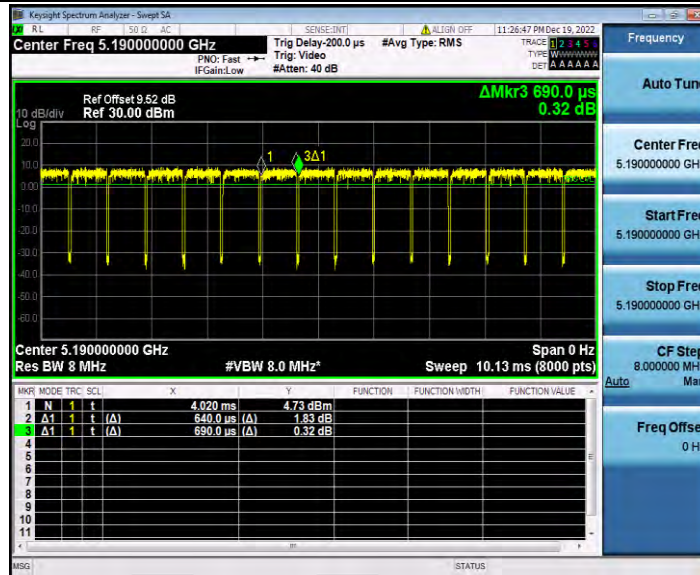
11N20SISO_Ant1_5200



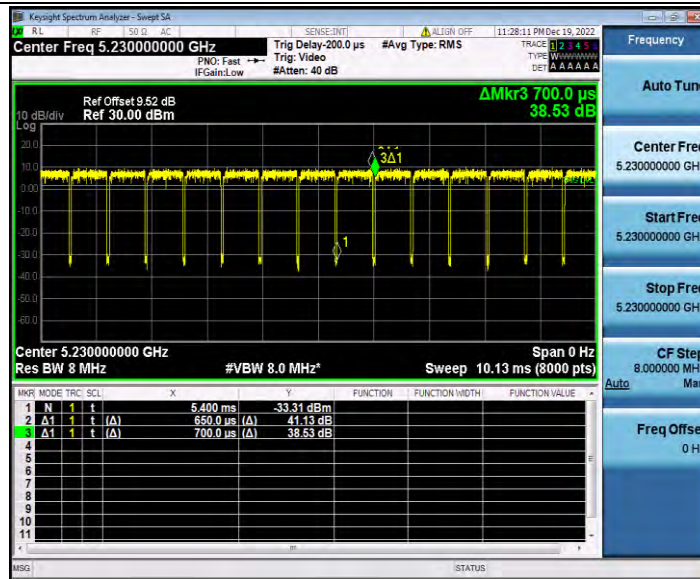
11N20SISO_Ant1_5240



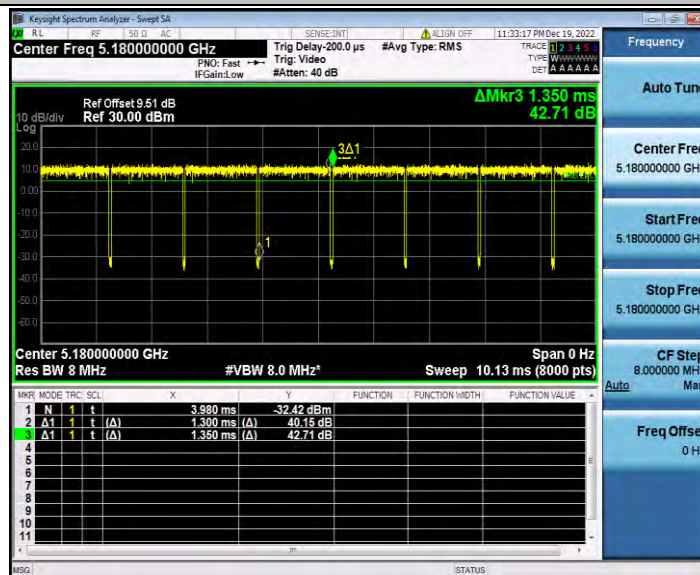
11N40SISO_Ant1_5190



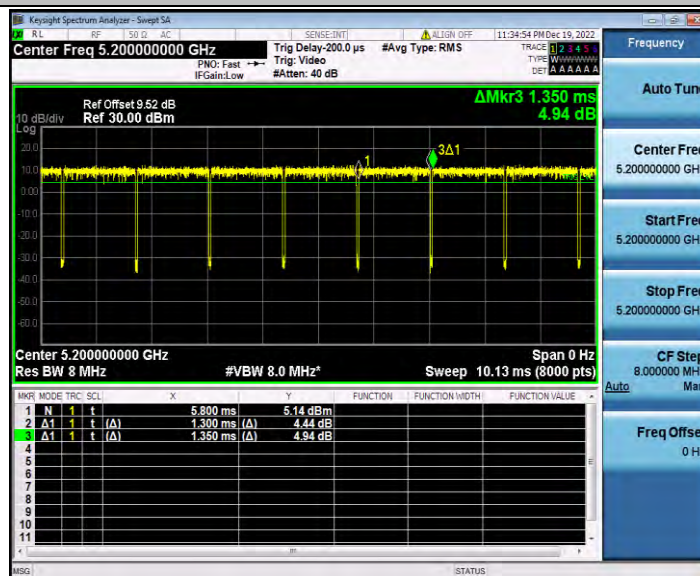
11N40SISO_Ant1_5230



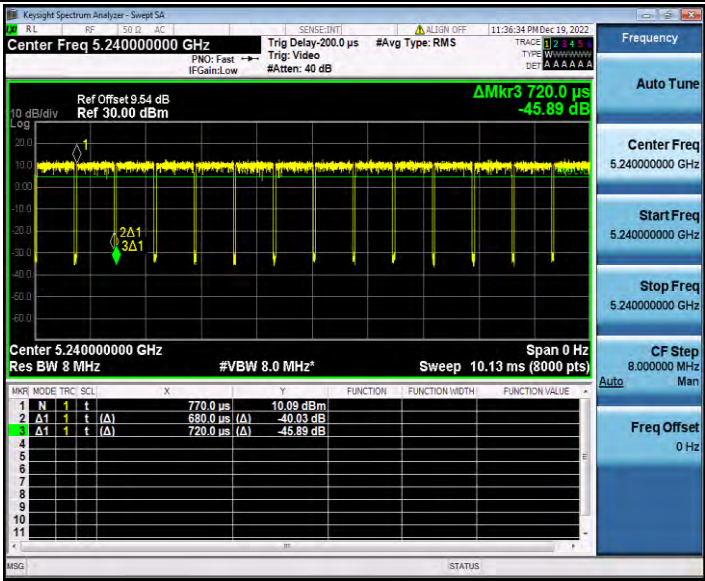
11AC20SISO_Ant1_5180



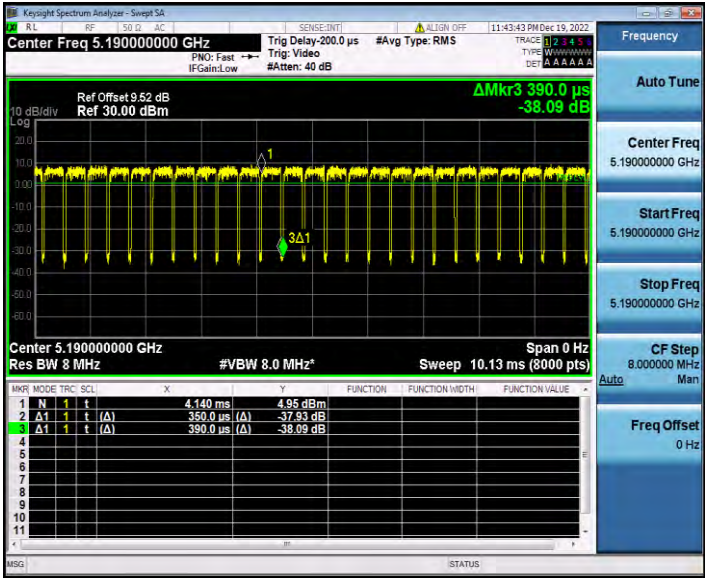
11AC20SISO_Ant1_5200



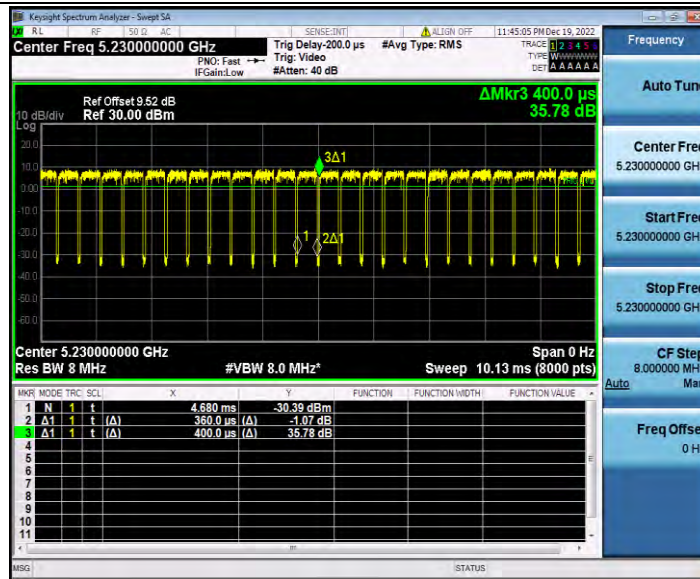
11AC20SISO_Ant1_5240



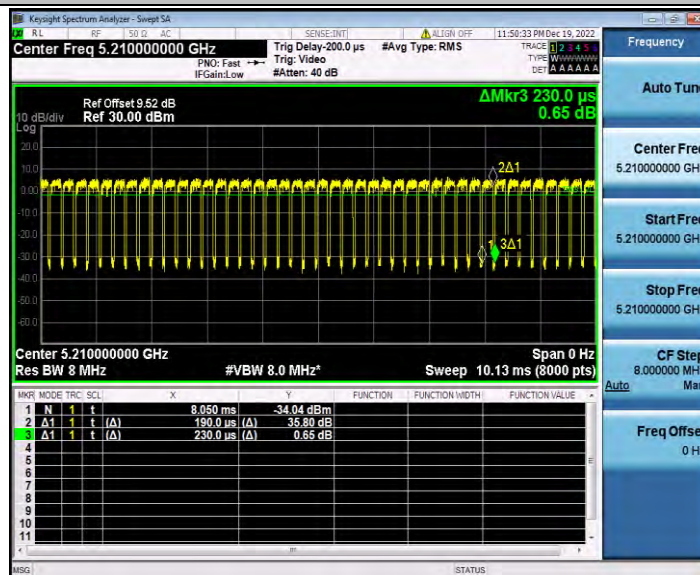
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency [MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	---	12.23	97.01	0.13	12.36	≤23.98	PASS
		5200	---	12.20	96.30	0.16	12.36	≤23.98	PASS
		5240	---	12.39	96.30	0.16	12.55	≤23.98	PASS
11N20SI SO	Ant1	5180	---	12.32	97.01	0.13	12.45	≤23.98	PASS
		5200	---	12.18	97.01	0.13	12.31	≤23.98	PASS
		5240	---	12.51	97.01	0.13	12.64	≤23.98	PASS
11N40SI SO	Ant1	5190	---	12.00	92.75	0.33	12.33	≤23.98	PASS
		5230	---	12.28	92.86	0.32	12.60	≤23.98	PASS
11AC20S ISO	Ant1	5180	---	12.49	96.30	0.16	12.65	≤23.98	PASS
		5200	---	12.29	96.30	0.16	12.45	≤23.98	PASS
		5240	---	12.37	94.44	0.25	12.62	≤23.98	PASS
11AC40S ISO	Ant1	5190	---	11.74	89.74	0.47	12.21	≤23.98	PASS
		5230	---	11.76	90.00	0.46	12.22	≤23.98	PASS
11AC80S ISO	Ant1	5210	---	11.45	82.61	0.83	12.28	≤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	1.49	≤11.00	PASS
		5200	1.54	≤11.00	PASS
		5240	1.79	≤11.00	PASS
11N20SISO	Ant1	5180	1.63	≤11.00	PASS
		5200	1.41	≤11.00	PASS
		5240	1.92	≤11.00	PASS
11N40SISO	Ant1	5190	-1.35	≤11.00	PASS
		5230	-0.92	≤11.00	PASS
11AC20SISO	Ant1	5180	1.77	≤11.00	PASS
		5200	1.6	≤11.00	PASS
		5240	1.7	≤11.00	PASS
11AC40SISO	Ant1	5190	-1.47	≤11.00	PASS
		5230	-1.33	≤11.00	PASS
11AC80SISO	Ant1	5210	-4.29	≤11.00	PASS

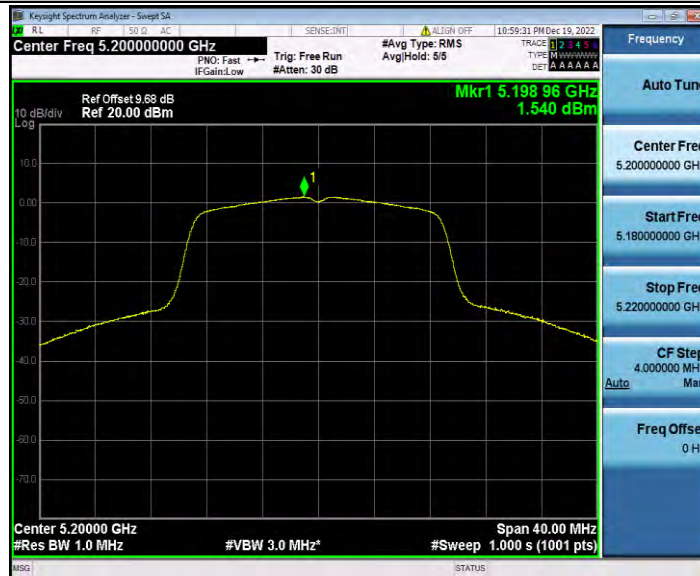
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



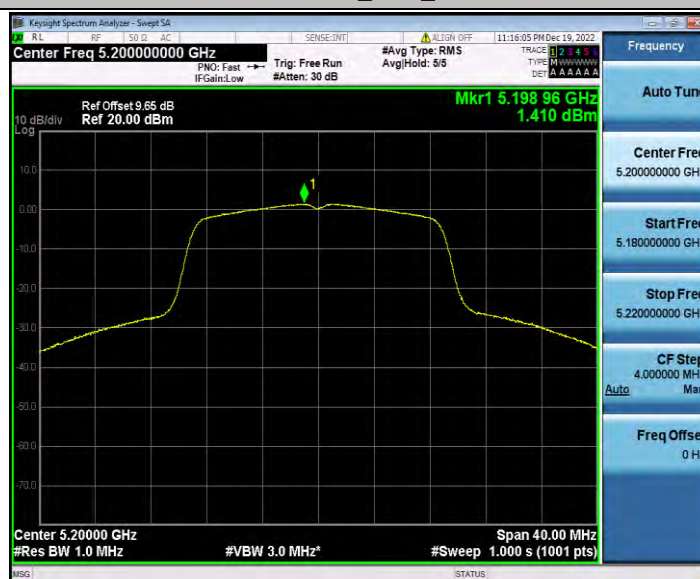
11A_Ant1_5240



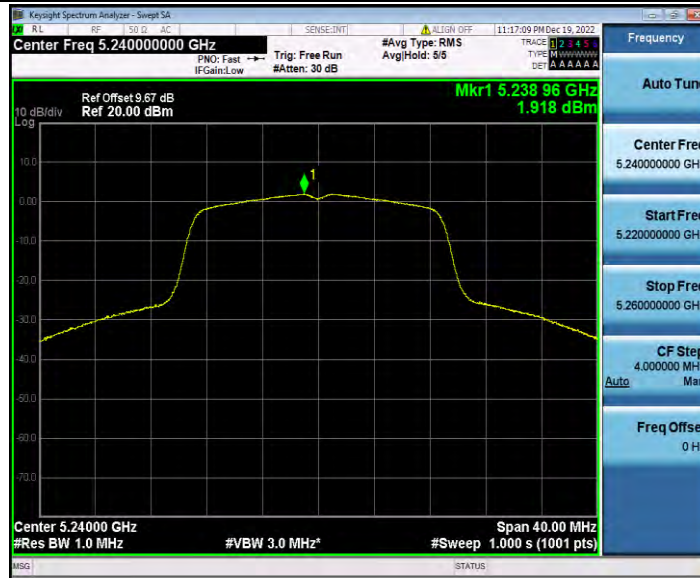
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



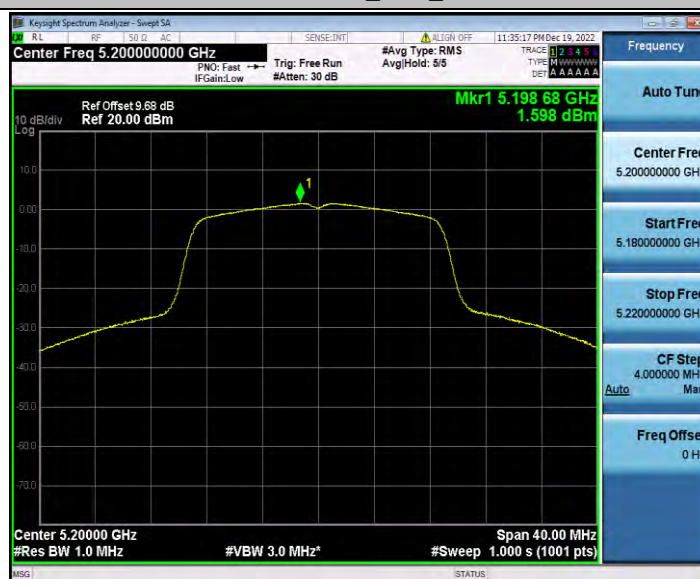
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



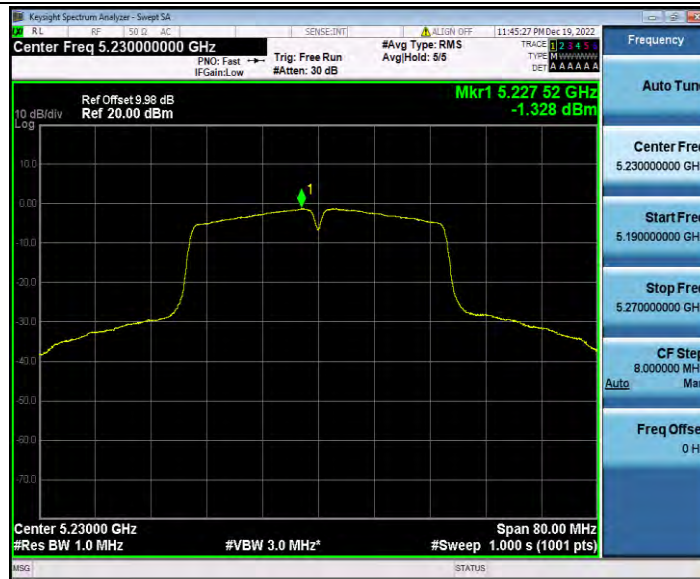
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



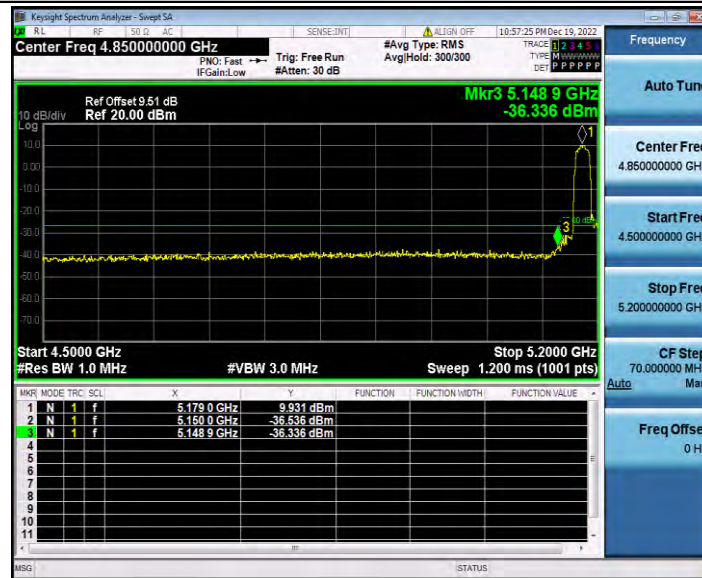
Appendix D.6: Band edge measurements

Test Result B1

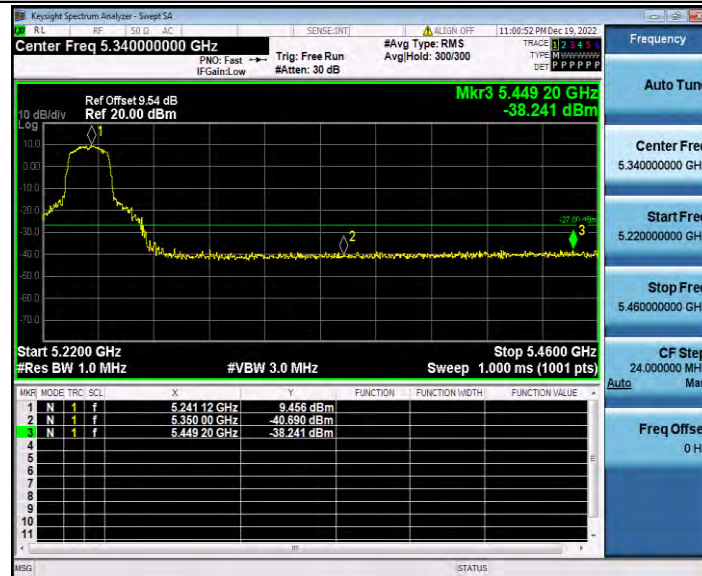
TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-36.34	≤-27	PASS
		High	5240	-38.24	≤-27	PASS
11N20SISO	Ant1	Low	5180	-34.46	≤-27	PASS
		High	5240	-38.02	≤-27	PASS
11N40SISO	Ant1	Low	5190	-32.39	≤-27	PASS
		High	5230	-38.51	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-35.75	≤-27	PASS
		High	5240	-38.44	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-30.87	≤-27	PASS
		High	5230	-38.1	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-32.8	≤-27	PASS
		High	5210	-38.31	≤-27	PASS

Test Graphs B1

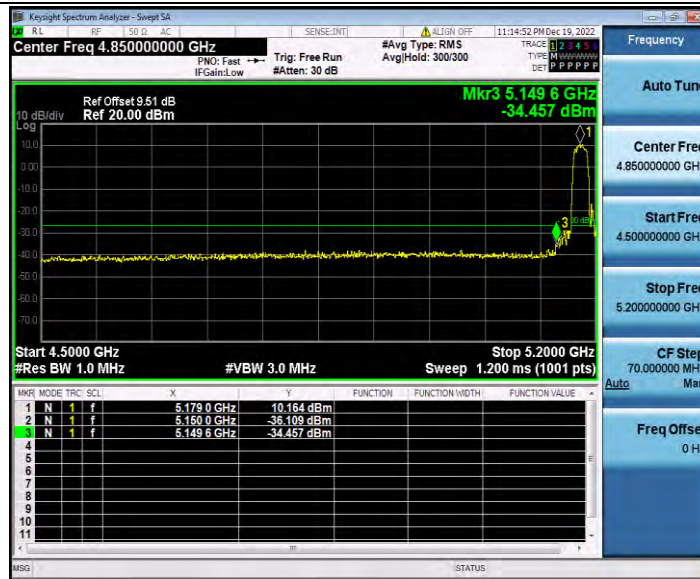
11A_Ant1_Low_5180



11A_Ant1_High_5240



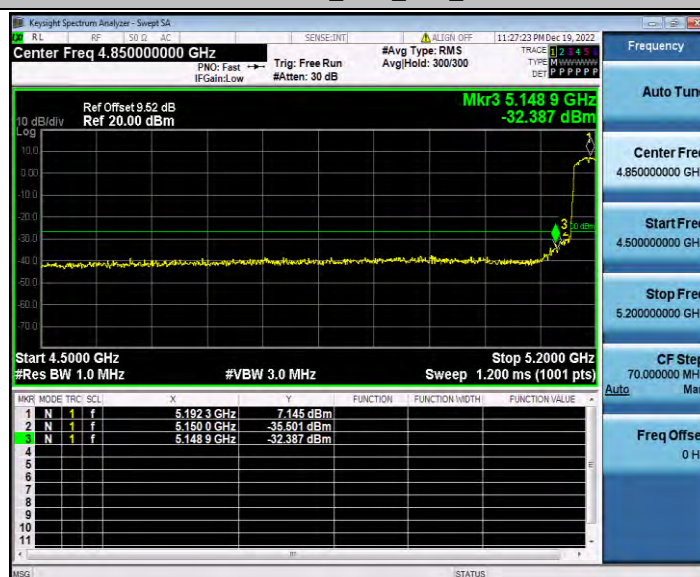
11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



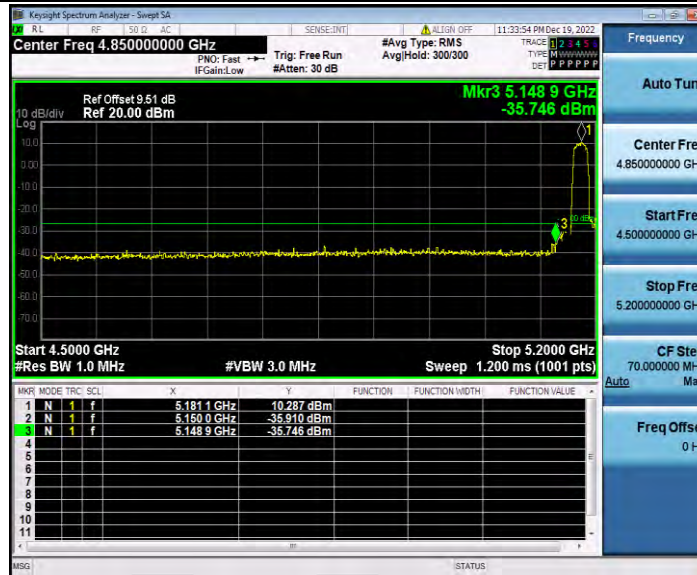
11N40SISO_Ant1_Low_5190



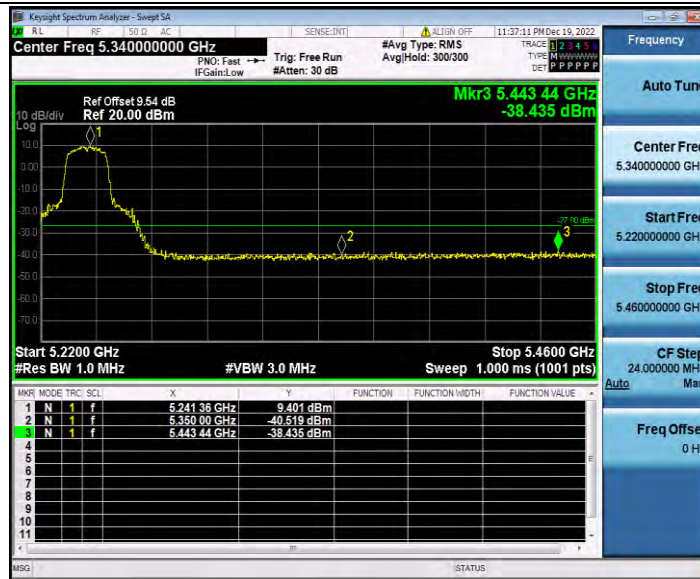
11N40SISO_Ant1_High_5230



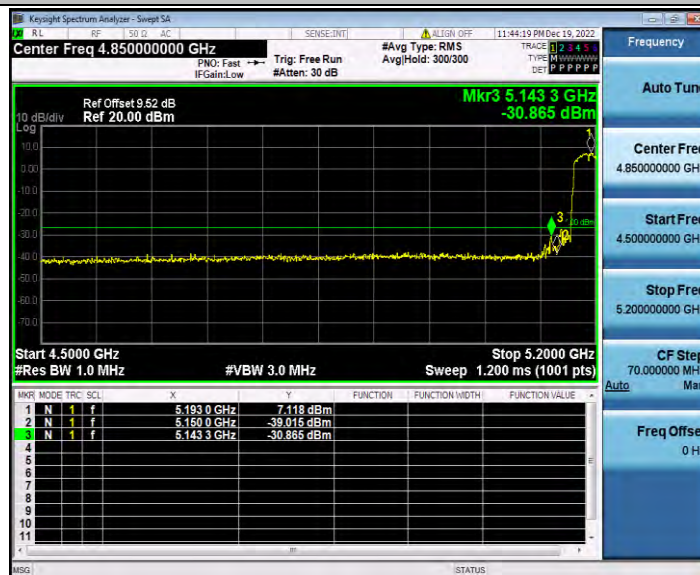
11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240



11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



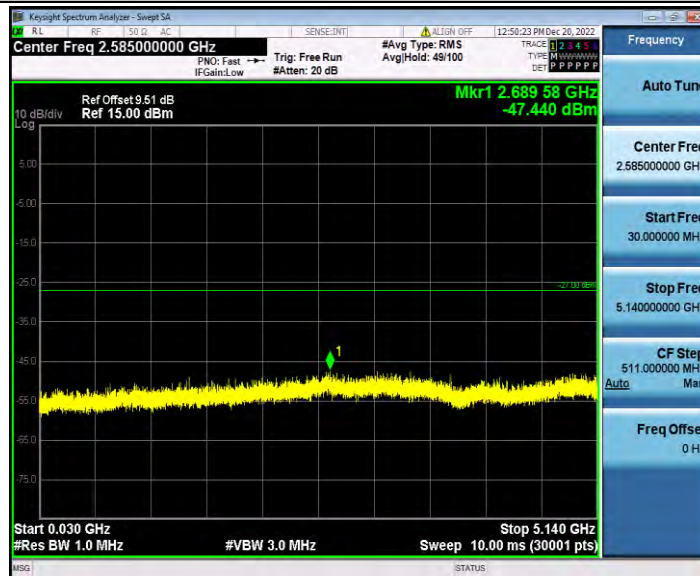
Appendix D.7: Conducted Spurious Emission

Test Result

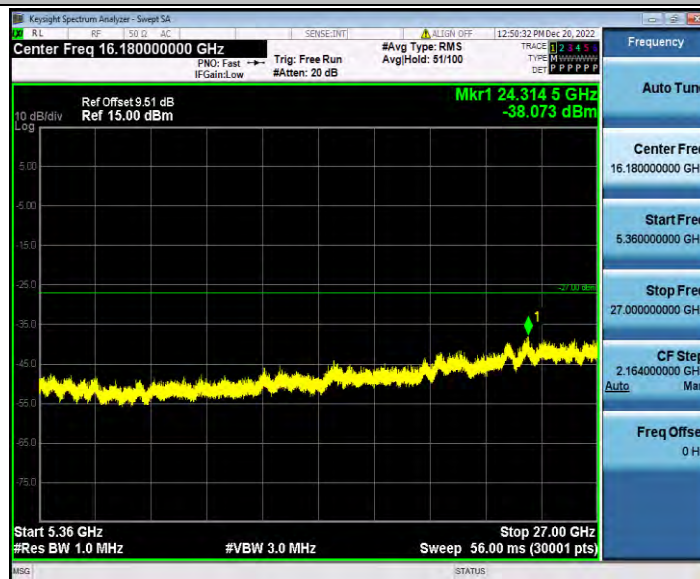
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	2689.58	-47.44	≤-27	PASS
			5360~40000	24314.48	-38.07	≤-27	PASS
		5200	30~5140	2641.72	-47.05	≤-27	PASS
			5360~40000	24722.75	-37.87	≤-27	PASS
		5240	30~5140	2529.81	-47.22	≤-27	PASS
			5360~40000	24832.39	-38.21	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	4949.23	-47.18	≤-27	PASS
			5360~40000	26043.51	-38.4	≤-27	PASS
		5200	30~5140	5106.61	-47.54	≤-27	PASS
			5360~40000	26821.83	-36.99	≤-27	PASS
		5240	30~5140	1763.99	-40.29	≤-27	PASS
			5360~40000	24292.84	-38.23	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	3177.08	-47.5	≤-27	PASS
			5360~40000	24194.73	-38.17	≤-27	PASS
		5230	30~5140	3068.41	-46.81	≤-27	PASS
			5360~40000	26487.13	-38.33	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	2647.34	-46.65	≤-27	PASS
			5360~40000	23580.16	-37.13	≤-27	PASS
		5200	30~5140	1746.62	-45.28	≤-27	PASS
			5360~40000	24768.19	-38.65	≤-27	PASS
		5240	30~5140	4944.29	-47.2	≤-27	PASS
			5360~40000	24222.87	-38.5	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	1750.88	-41.45	≤-27	PASS
			5360~40000	26491.46	-38.73	≤-27	PASS
		5230	30~5140	2408.36	-47	≤-27	PASS
			5360~40000	25173.58	-38.43	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	2777.31	-46.78	≤-27	PASS
			5360~40000	24269.03	-39.03	≤-27	PASS

Test Graphs

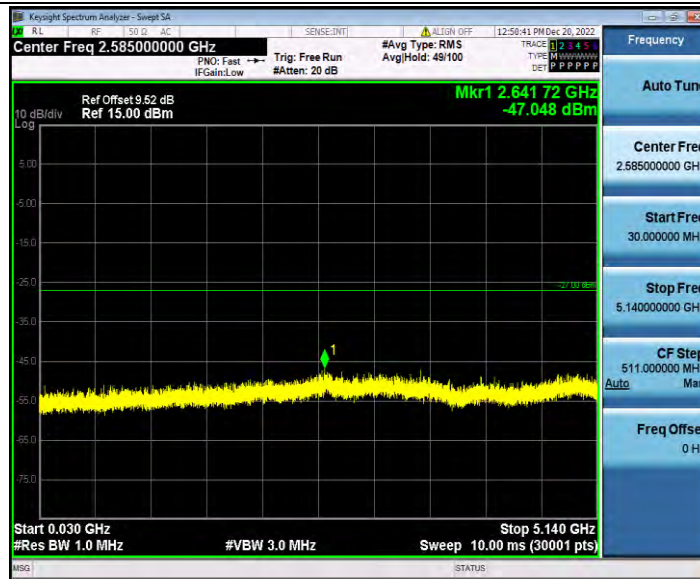
11A_Ant1_5180_30~5140



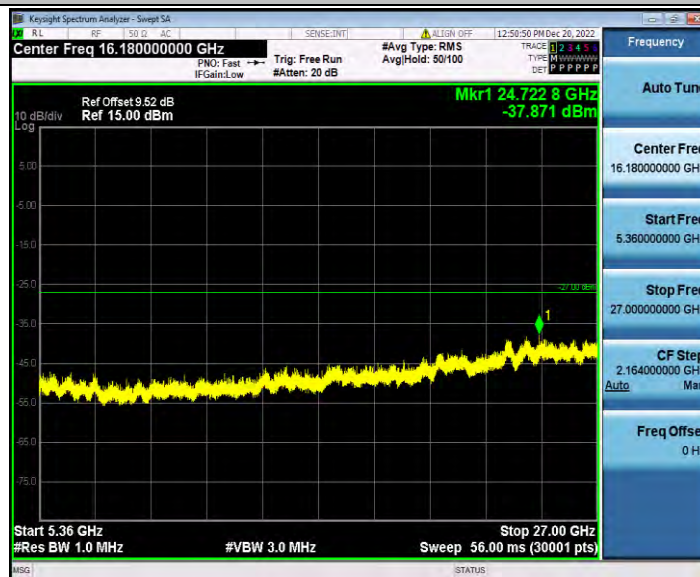
11A_Ant1_5180_5360~40000



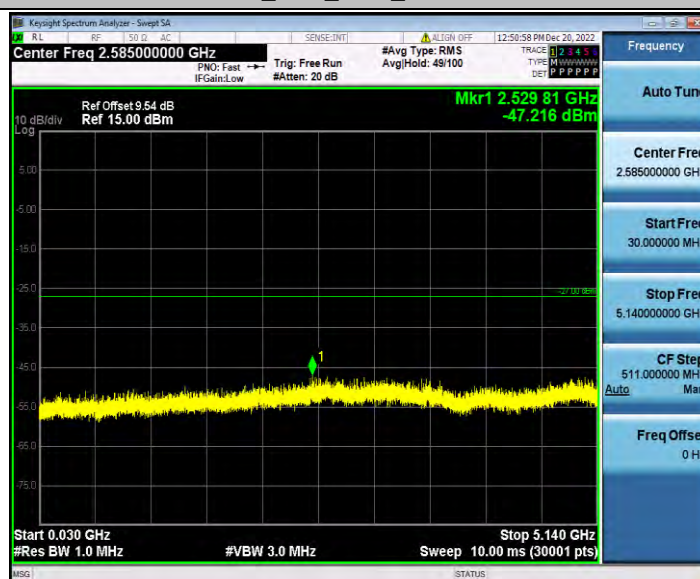
11A_Ant1_5200_30~5140



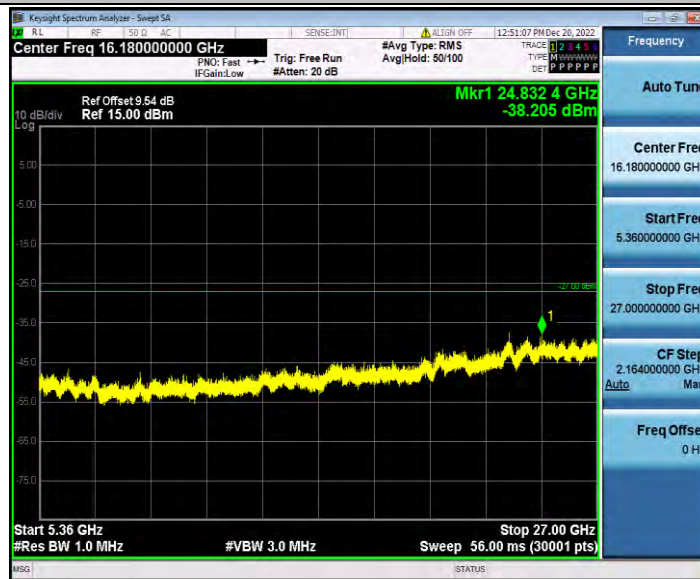
11A_Ant1_5200_5360~40000



11A_Ant1_5240_30~5140



11A_Ant1_5240_5360~40000



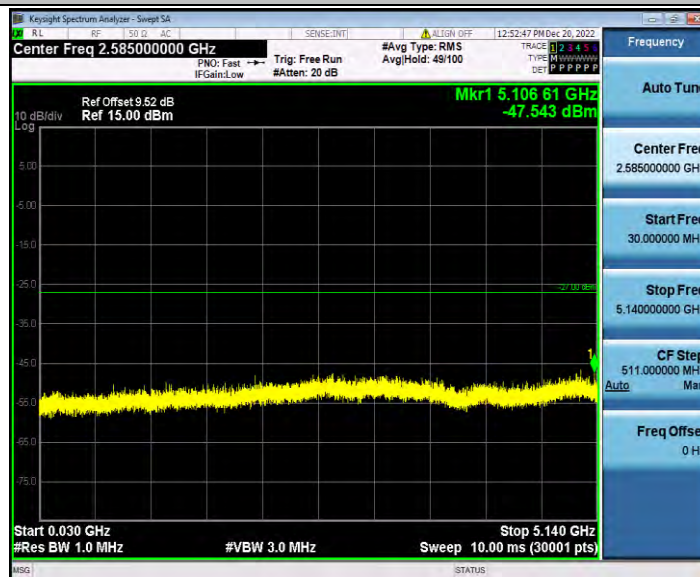
11N20SISO_Ant1_5180_30~5140



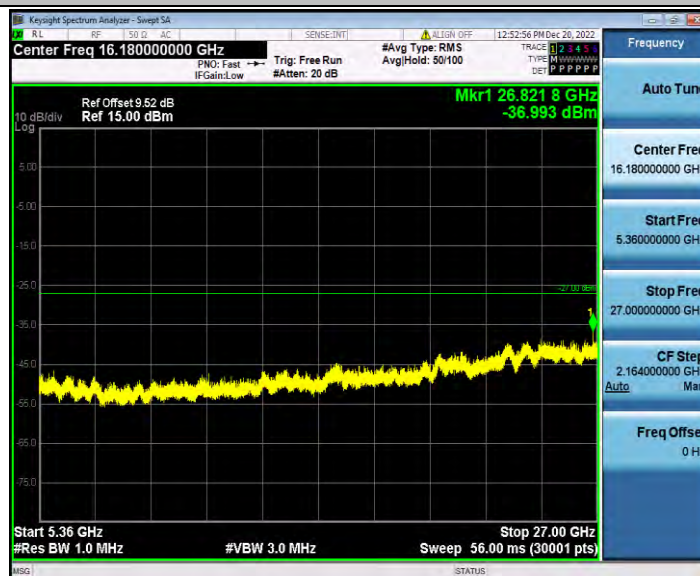
11N20SISO_Ant1_5180_5360~40000



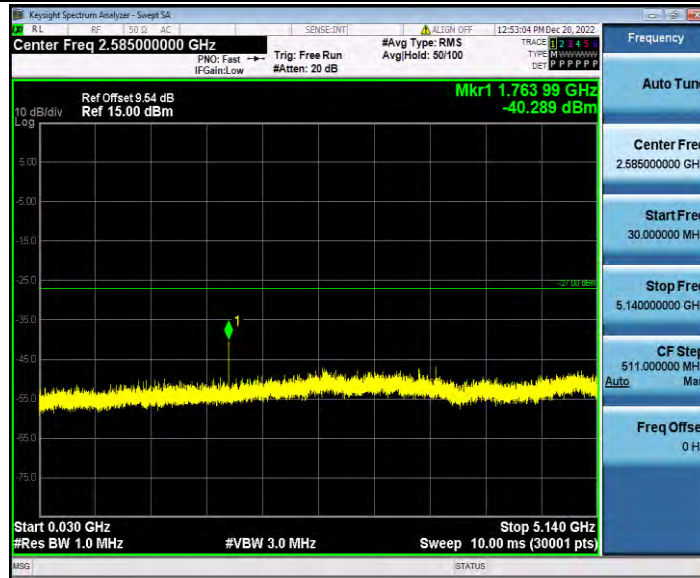
11N20SISO_Ant1_5200_30~5140



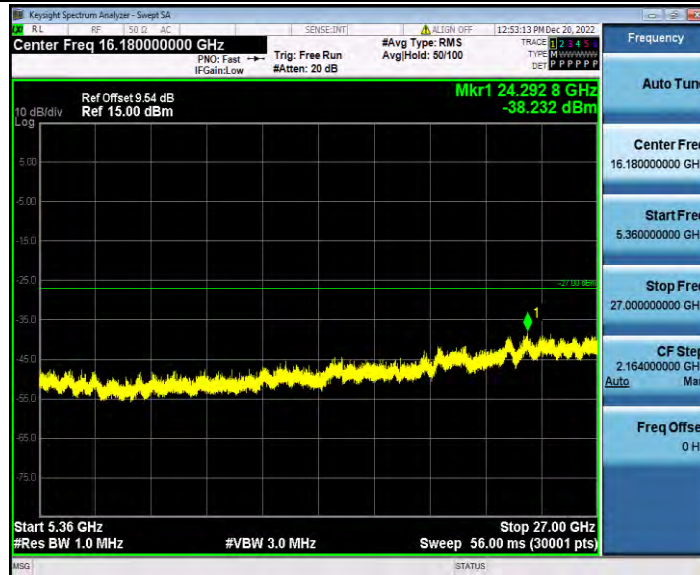
11N20SISO_Ant1_5200_5360~40000



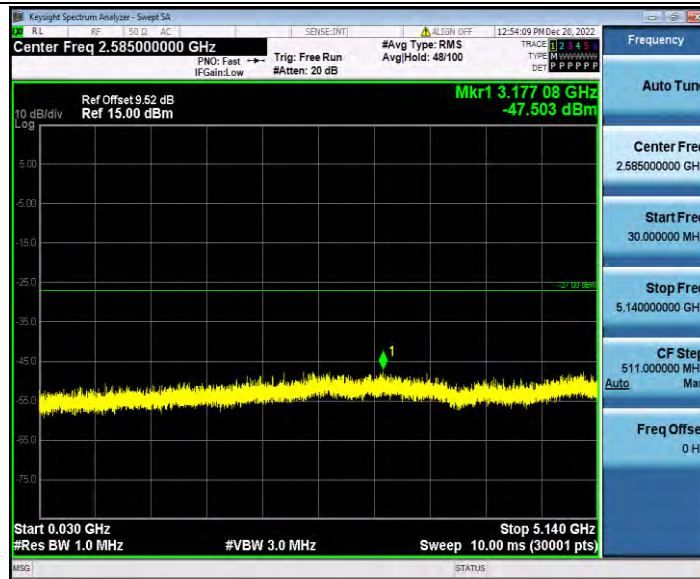
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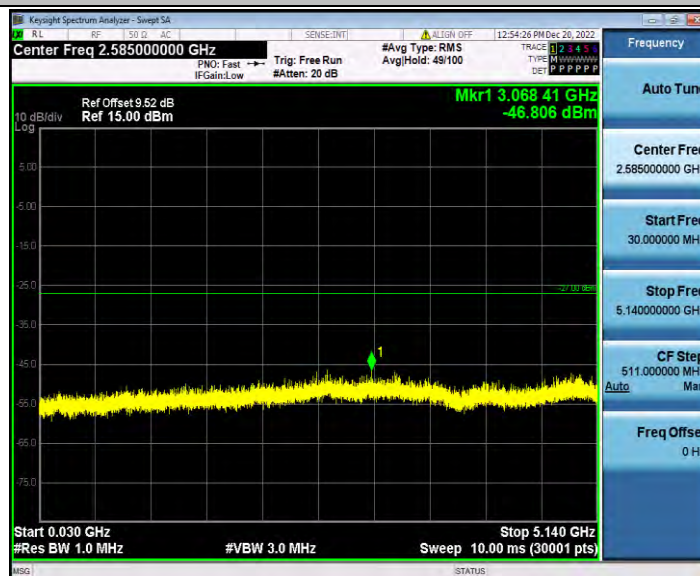
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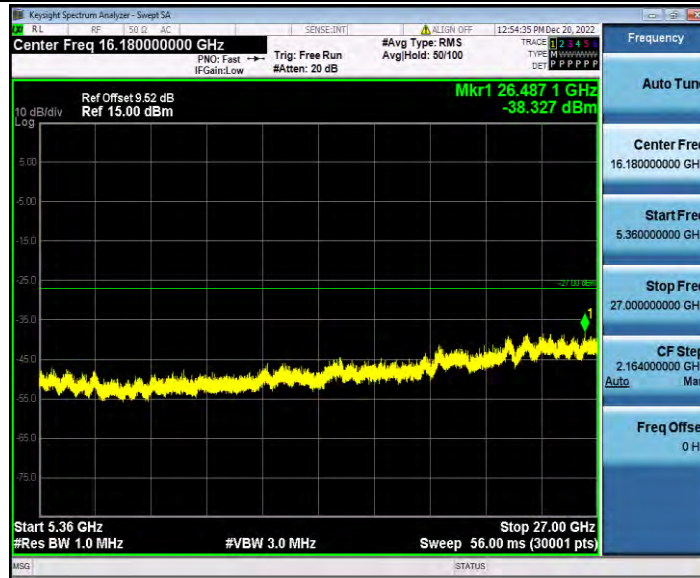
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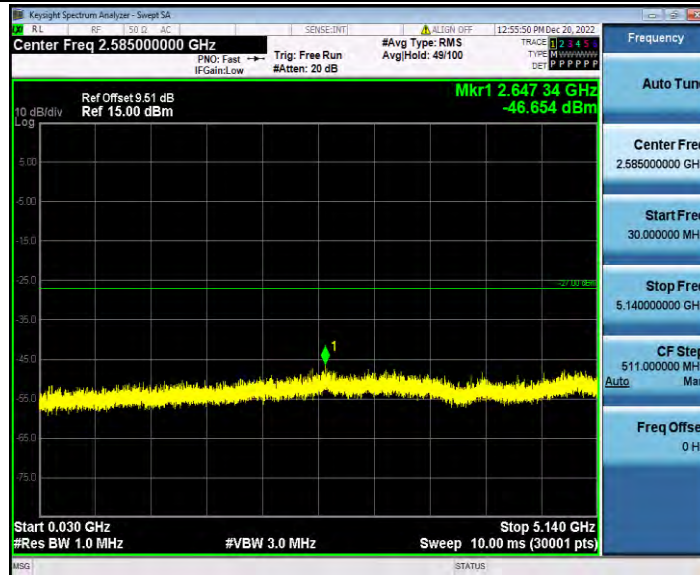
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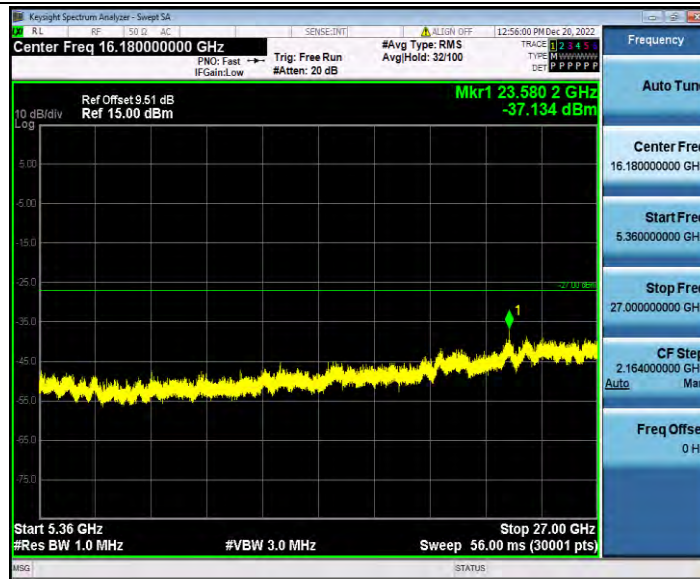
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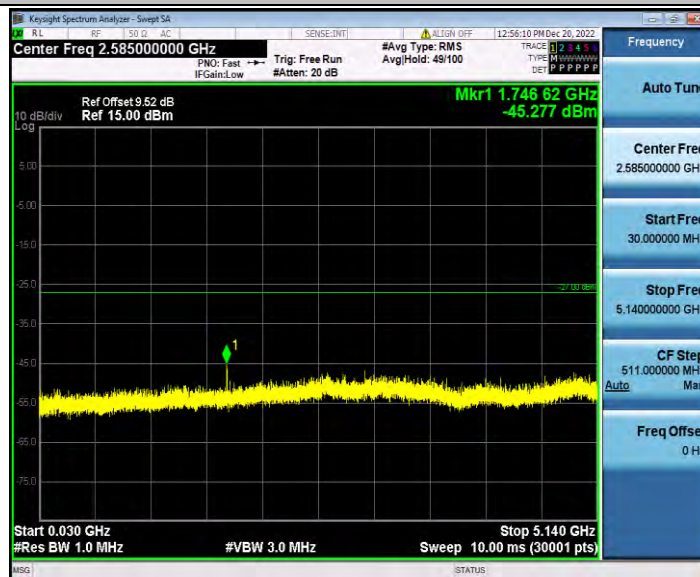
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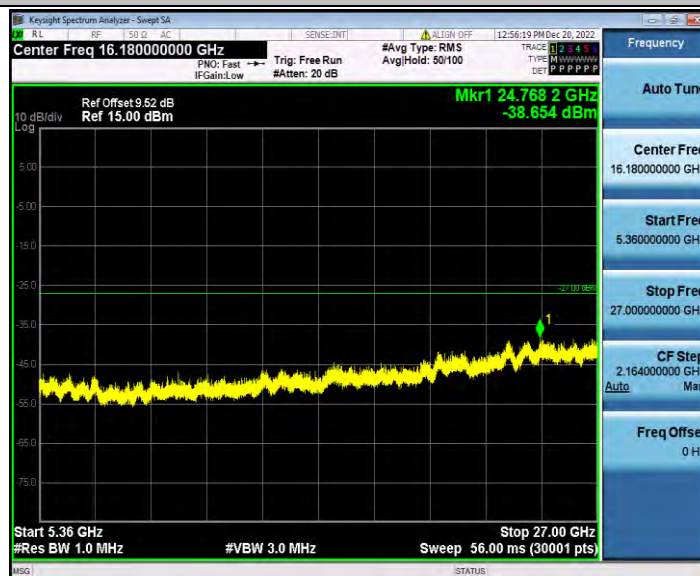
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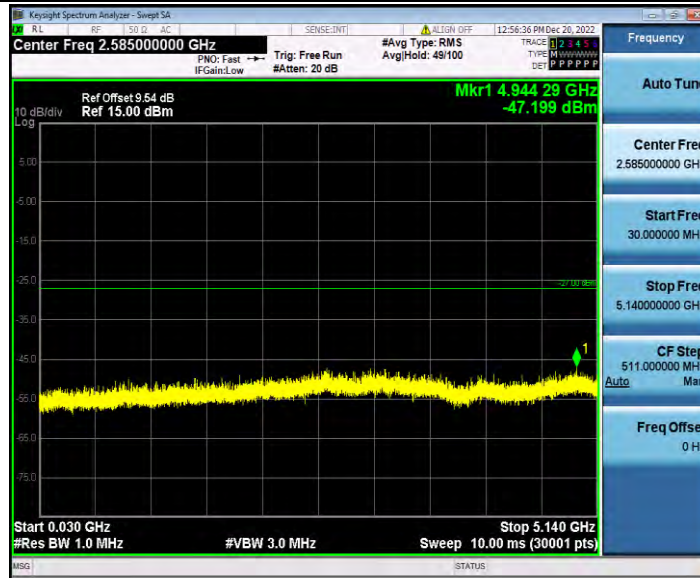
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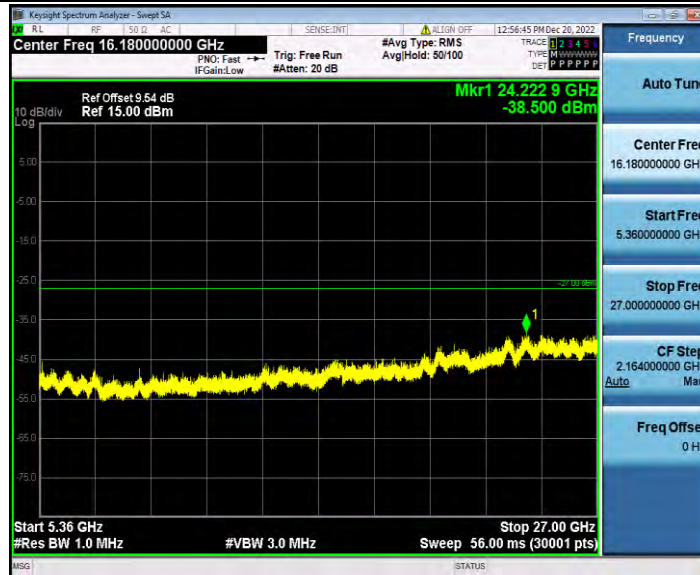
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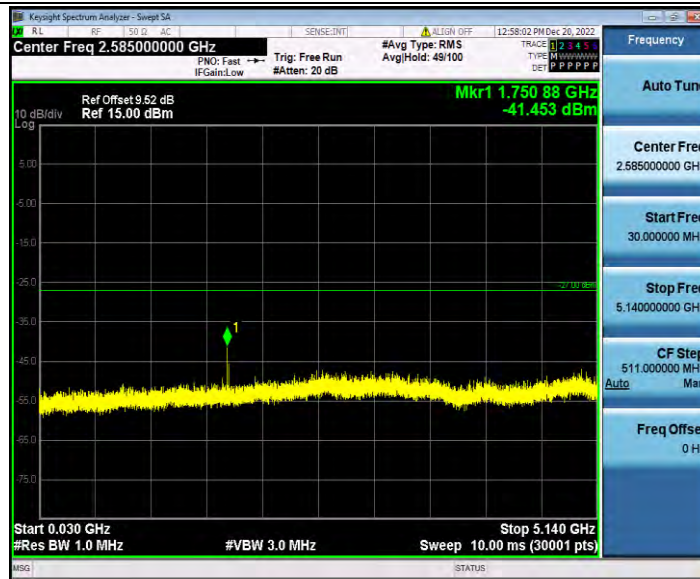
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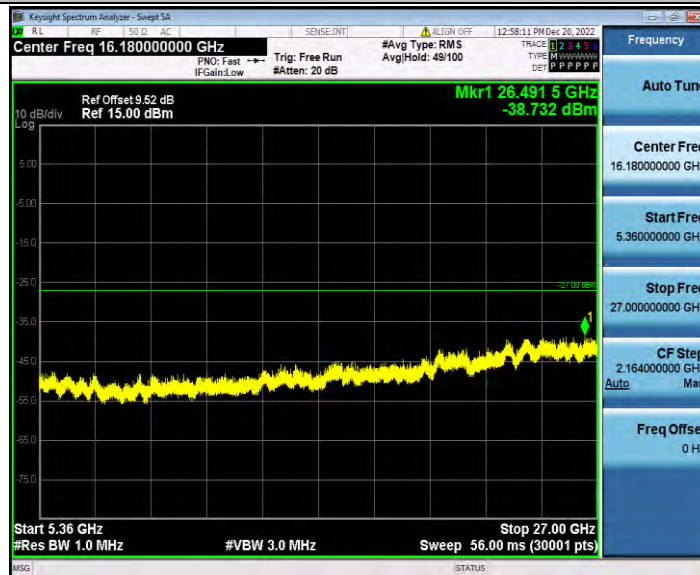
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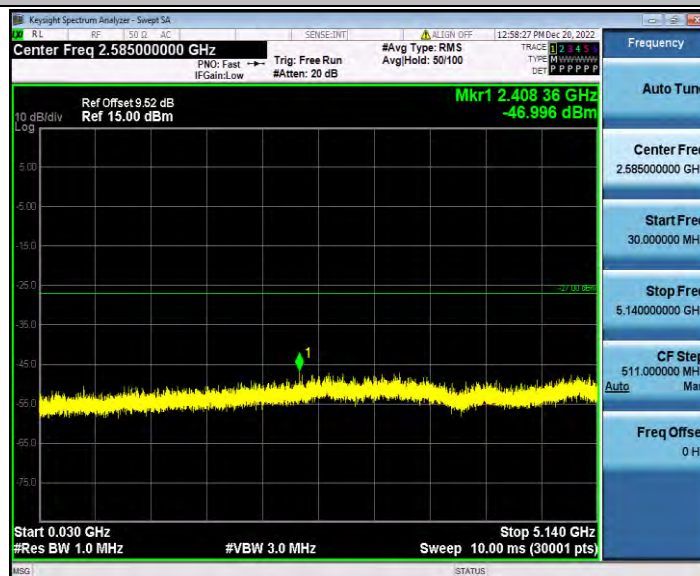
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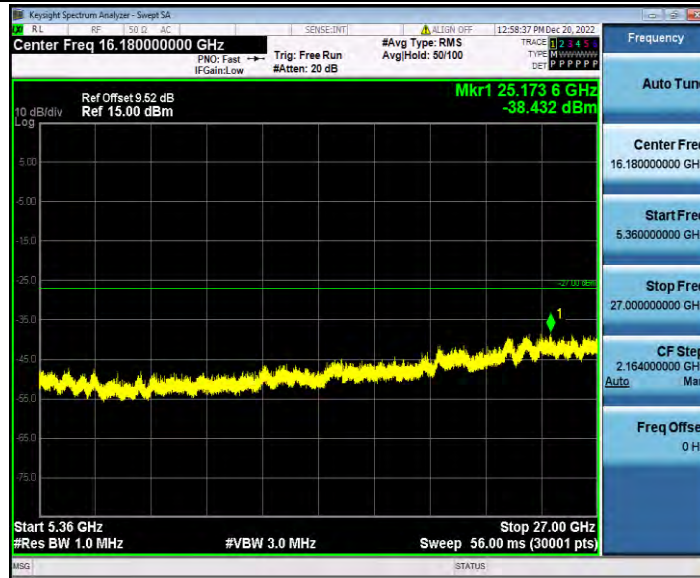
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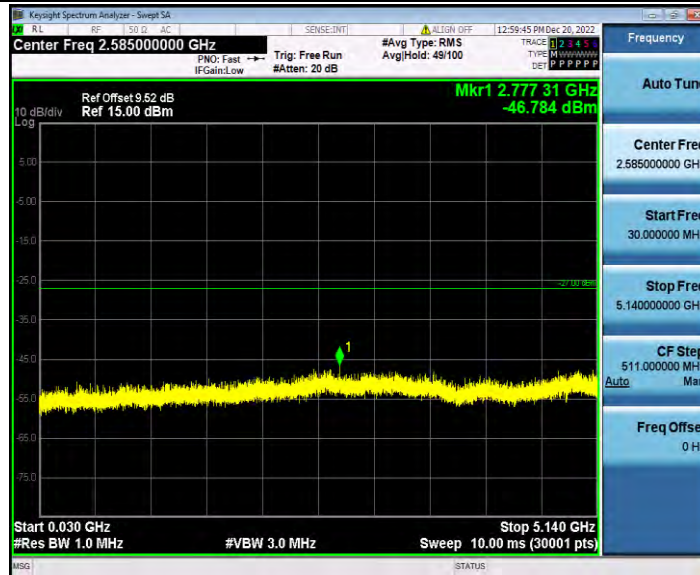
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11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_5360~40000



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