

Case No. : GTS20221216016-1-14	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2023.1.6	Test Engineer: Jenny zeng

Appendix F.1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5500	24.240	5488.360	5512.600	---	---
		5600	22.240	5589.840	5612.080	---	---
		5700	22.280	5689.680	5711.960	---	---
11N20SISO	Ant1	5500	24.600	5487.360	5511.960	---	---
		5600	25.280	5587.520	5612.800	---	---
		5700	23.960	5688.600	5712.560	---	---
11N40SISO	Ant1	5510	58.880	5480.960	5539.840	---	---
		5590	66.480	5555.120	5621.600	---	---
		5670	58.800	5642.320	5701.120	---	---
11AC20SISO	Ant1	5500	25.240	5487.520	5512.760	---	---
		5600	27.280	5587.680	5614.960	---	---
		5700	24.600	5687.880	5712.480	---	---
11AC40SISO	Ant1	5510	42.560	5488.320	5530.880	---	---
		5590	52.480	5560.800	5613.280	---	---
		5670	41.120	5649.520	5690.640	---	---
11AC80SISO	Ant1	5530	107.360	5463.120	5570.480	---	---
		5610	128.800	5547.760	5676.560	---	---

Test Graphs

11A_Ant1_5500



11A_Ant1_5600



11A_Ant1_5700



11N20SISO_Ant1_5500



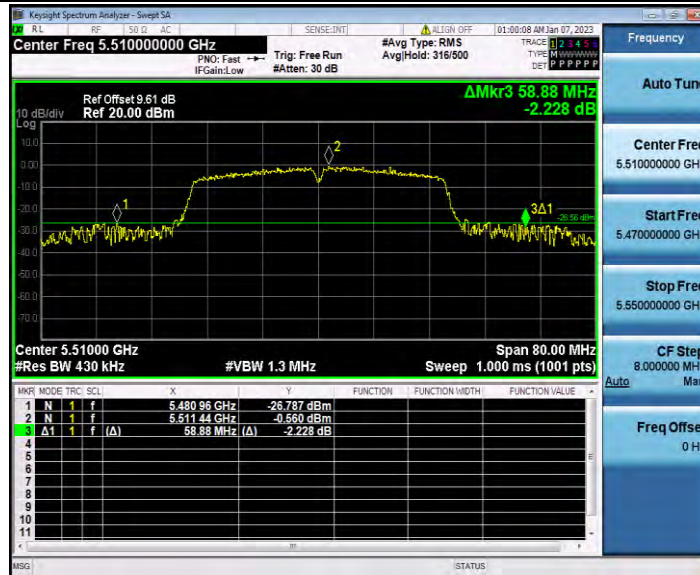
11N20SISO_Ant1_5600



11N20SISO_Ant1_5700



11N40SISO_Ant1_5510



11N40SISO_Ant1_5590



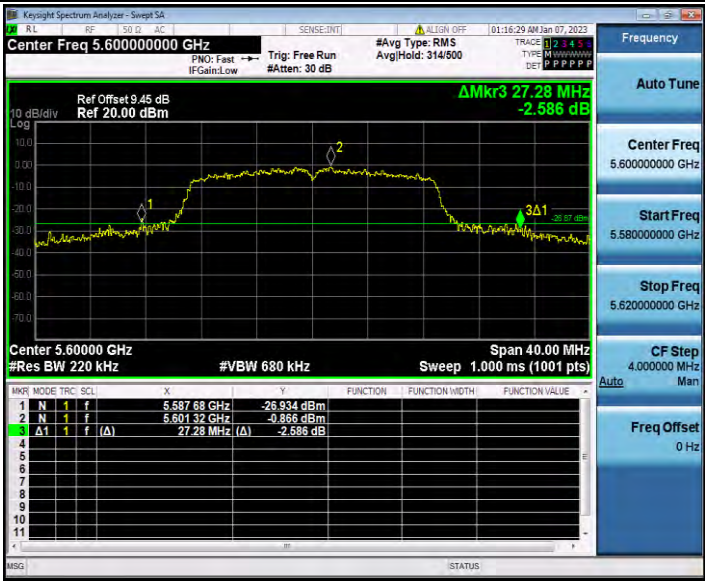
11N40SISO_Ant1_5670



11AC20SISO_Ant1_5500



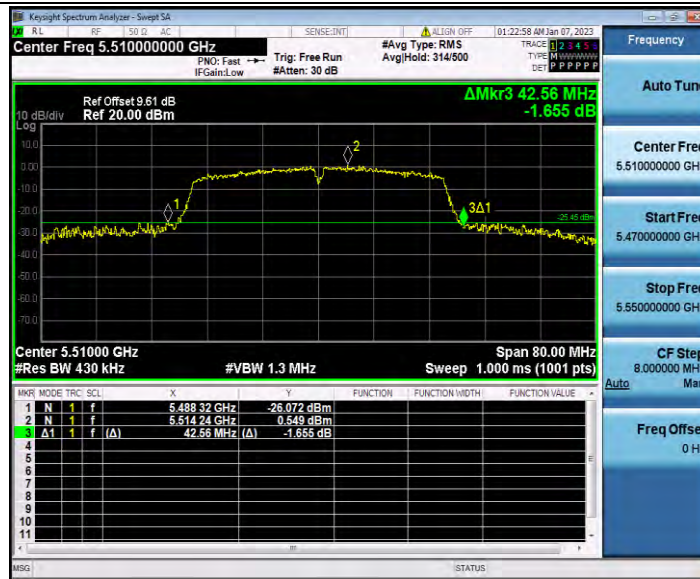
11AC20SISO_Ant1_5600



11AC20SISO_Ant1_5700



11AC40SISO_Ant1_5510



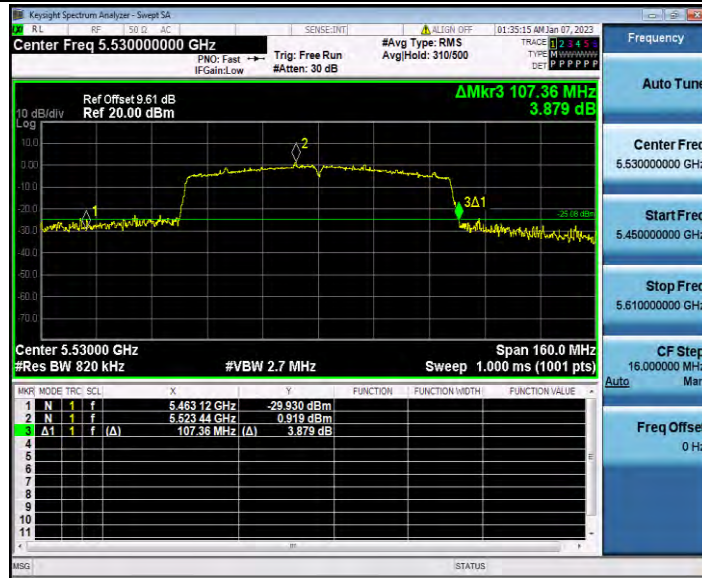
11AC40SISO_Ant1_5590



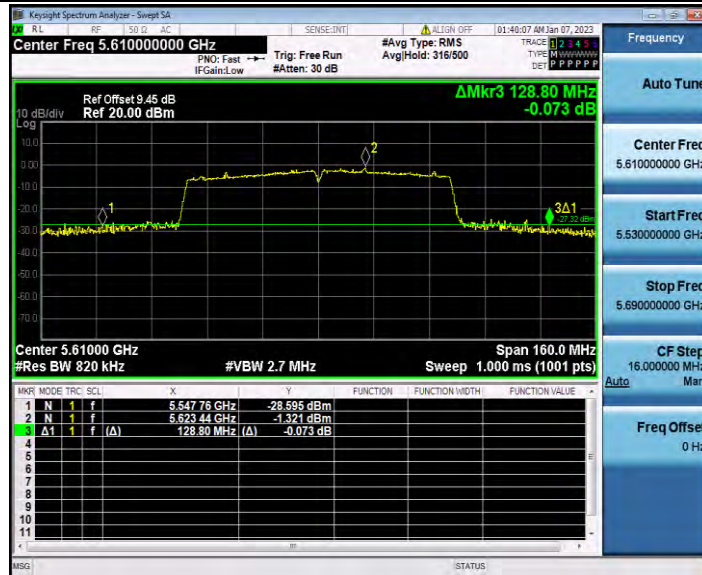
11AC40SISO_Ant1_5670



11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610



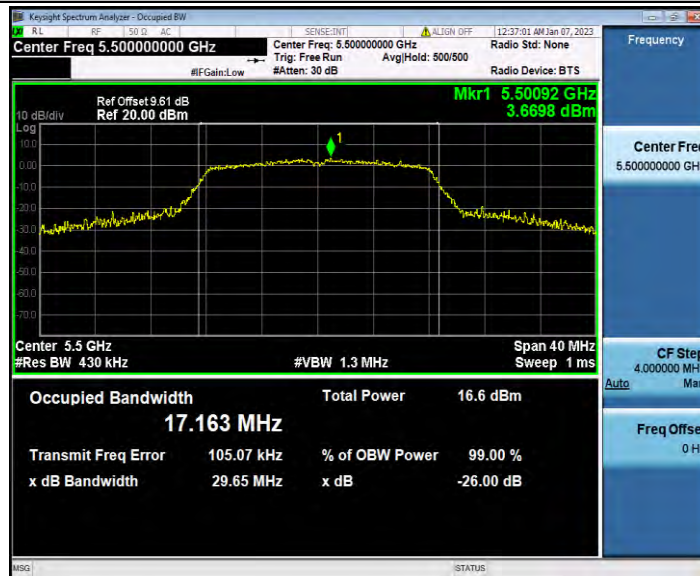
Appendix F.2: Occupied channel bandwidth

Test Result

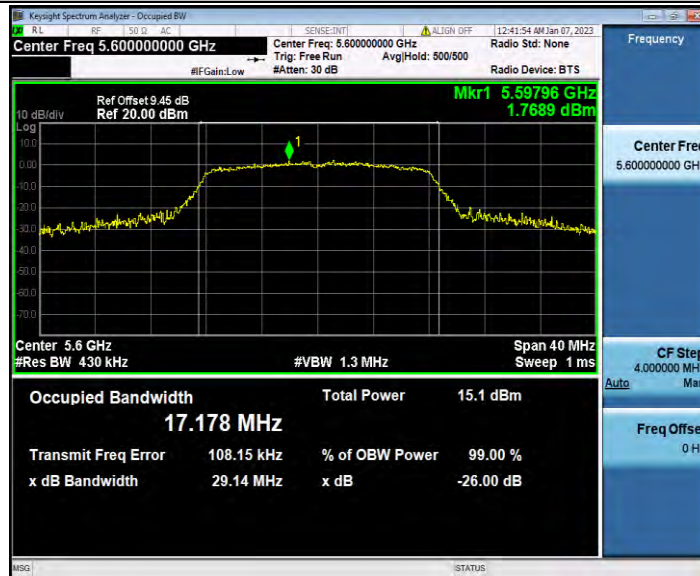
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5500	17.163	5491.524	5508.687	---	---
		5600	17.178	5591.519	5608.697	---	---
		5700	17.140	5691.567	5708.707	---	---
11N20SISO	Ant1	5500	18.207	5490.987	5509.194	---	---
		5600	18.220	5590.964	5609.184	---	---
		5700	18.145	5690.979	5709.124	---	---
11N40SISO	Ant1	5510	36.650	5491.821	5528.471	---	---
		5590	37.219	5571.424	5608.643	---	---
		5670	36.740	5651.754	5688.494	---	---
11AC20SISO	Ant1	5500	18.159	5491.024	5509.183	---	---
		5600	18.087	5591.030	5609.117	---	---
		5700	18.069	5691.087	5709.156	---	---
11AC40SISO	Ant1	5510	36.560	5491.832	5528.392	---	---
		5590	36.804	5571.638	5608.442	---	---
		5670	36.525	5651.886	5688.411	---	---
11AC80SISO	Ant1	5530	75.414	5492.170	5567.584	---	---
		5610	76.185	5572.116	5648.301	---	---

Test Graphs

11A_Ant1_5500



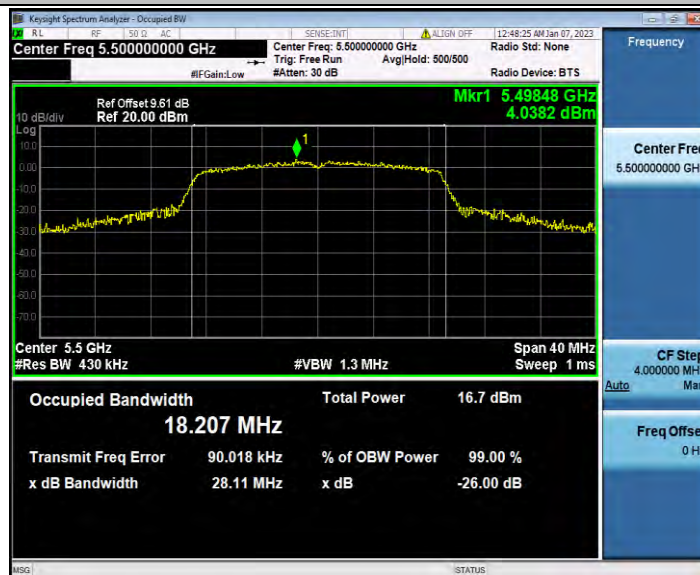
11A_Ant1_5600



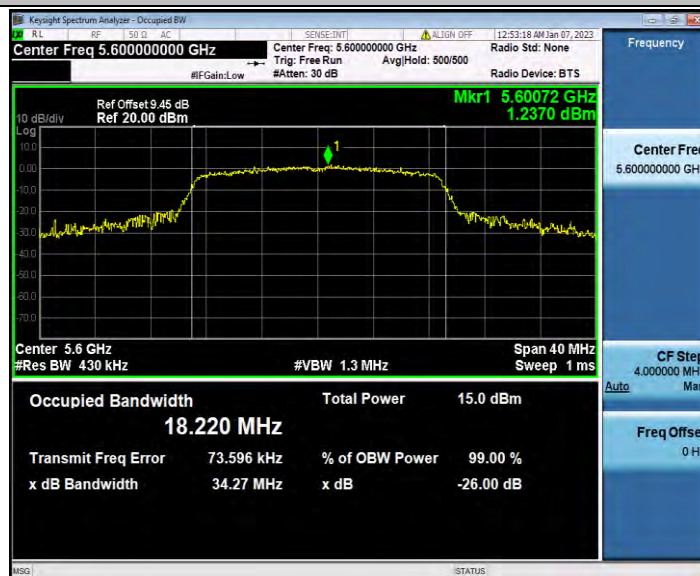
11A_Ant1_5700



11N20SISO_Ant1_5500



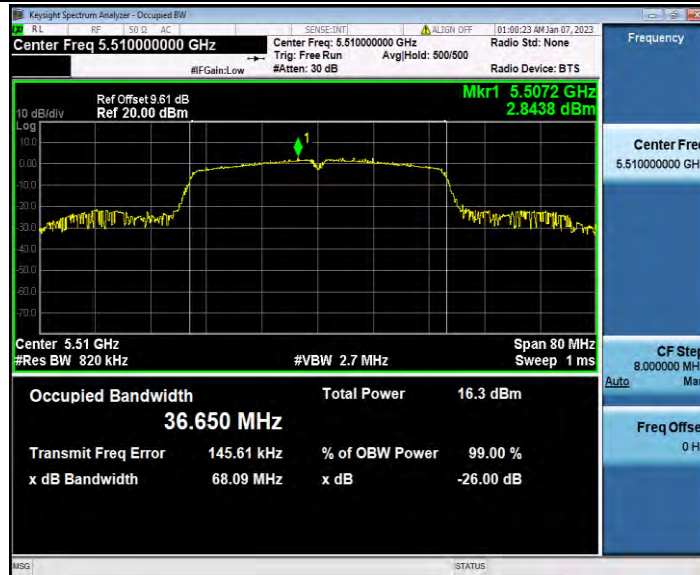
11N20SISO_Ant1_5600



11N20SISO_Ant1_5700



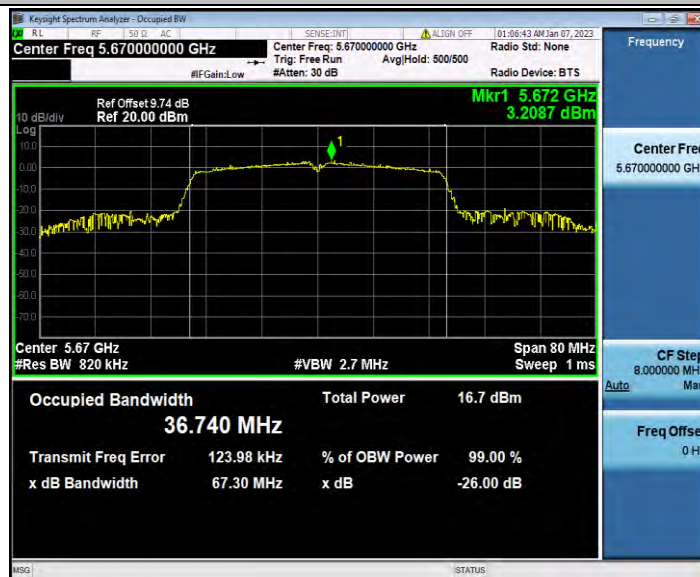
11N40SISO_Ant1_5510



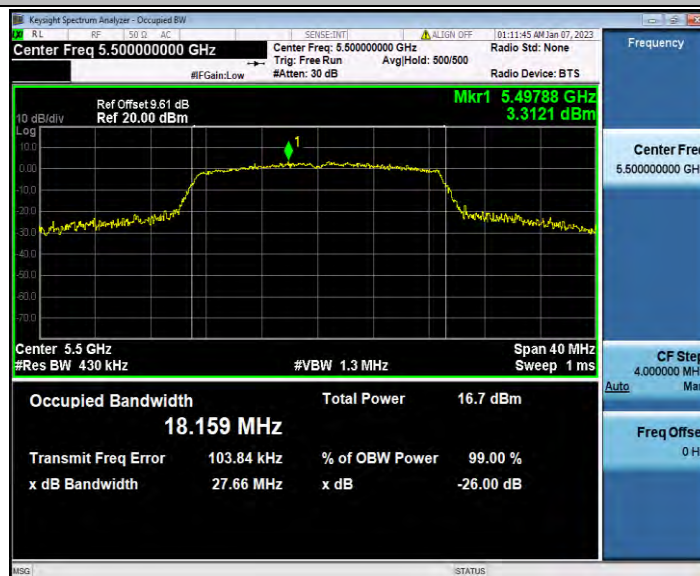
11N40SISO_Ant1_5590



11N40SISO_Ant1_5670



11AC20SISO_Ant1_5500



11AC20SISO_Ant1_5600



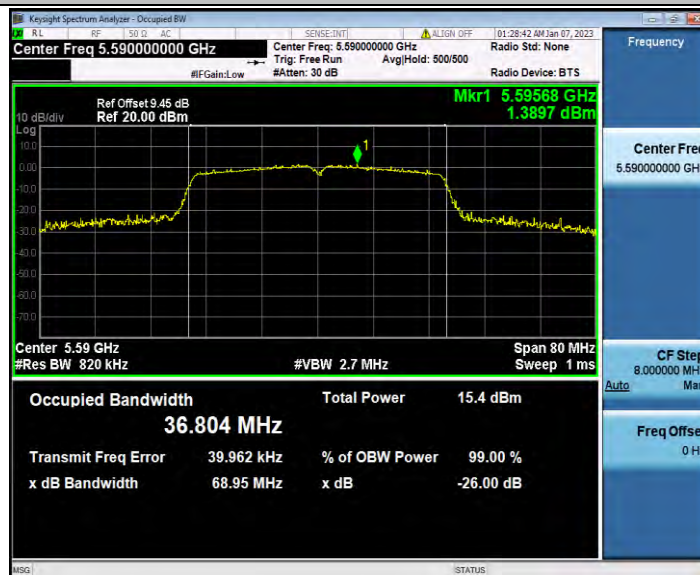
11AC20SISO_Ant1_5700



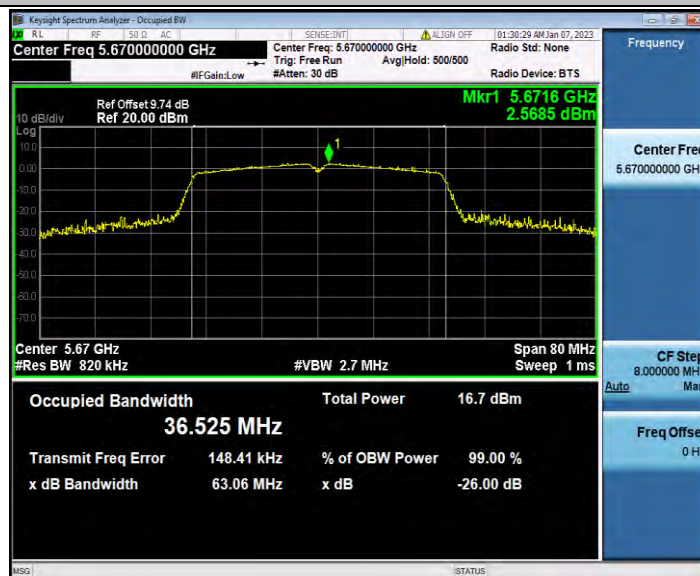
11AC40SISO_Ant1_5510



11AC40SISO_Ant1_5590



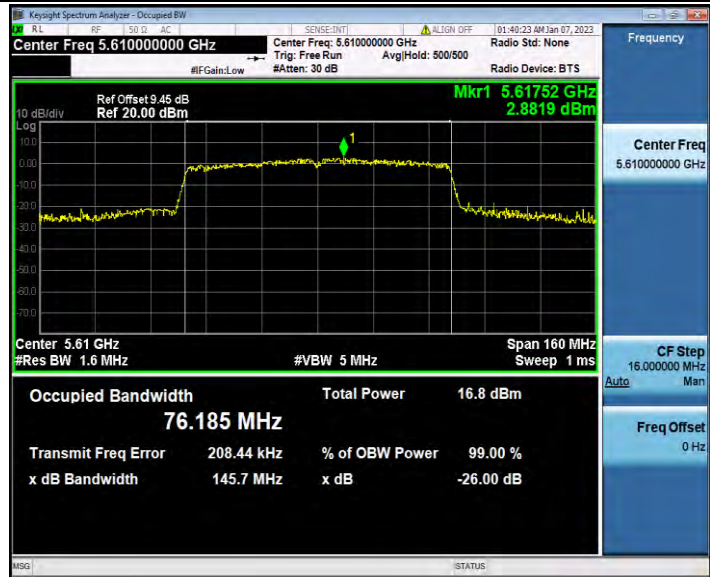
11AC40SISO_Ant1_5670



11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610

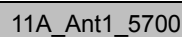
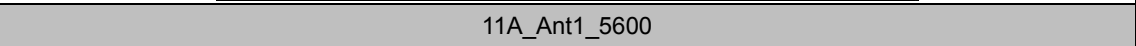


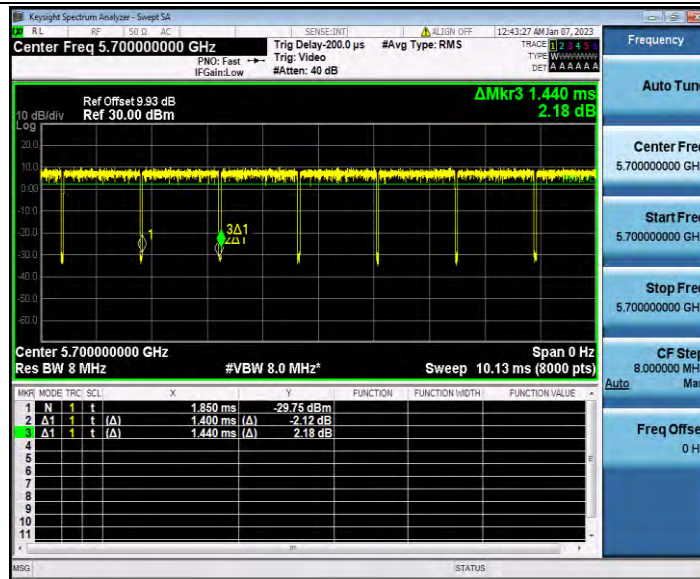
Appendix F.3: Duty Cycle

Test Result

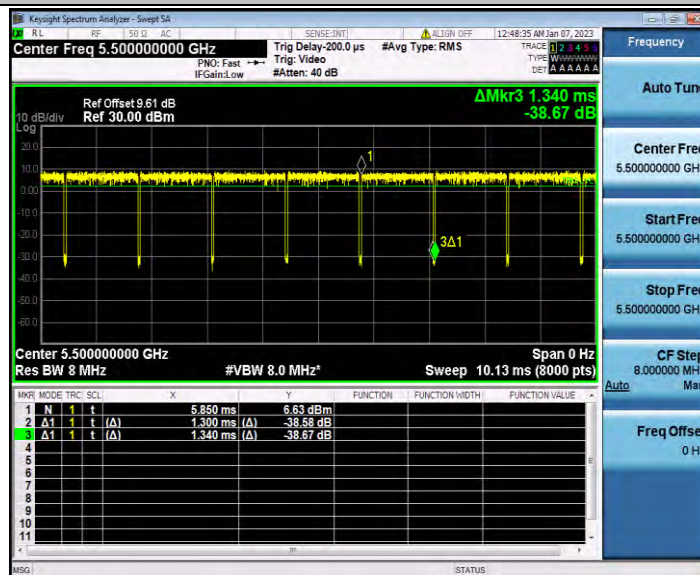
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5500	1.39	1.43	97.20
		5600	1.39	1.44	96.53
		5700	1.40	1.44	97.22
11N20SISO	Ant1	5500	1.30	1.34	97.01
		5600	1.30	1.35	96.30
		5700	1.30	1.34	97.01
11N40SISO	Ant1	5510	0.65	0.69	94.20
		5590	0.65	0.69	94.20
		5670	0.64	0.69	92.75
11AC20SISO	Ant1	5500	1.31	1.35	97.04
		5600	1.31	1.36	96.32
		5700	1.31	1.35	97.04
11AC40SISO	Ant1	5510	0.65	0.70	92.86
		5590	0.65	0.70	92.86
		5670	0.65	0.70	92.86
11AC80SISO	Ant1	5530	0.32	0.36	88.89
		5610	0.32	0.37	86.49

11A_Ant1_5500

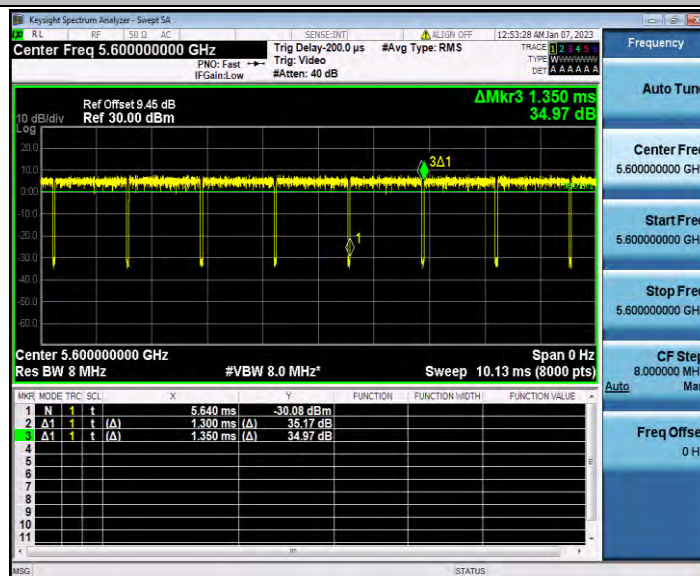




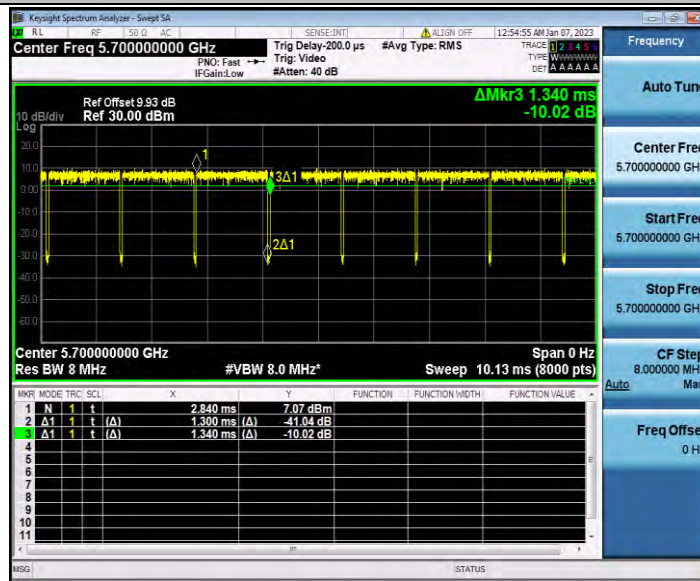
11N20SISO_Ant1_5500



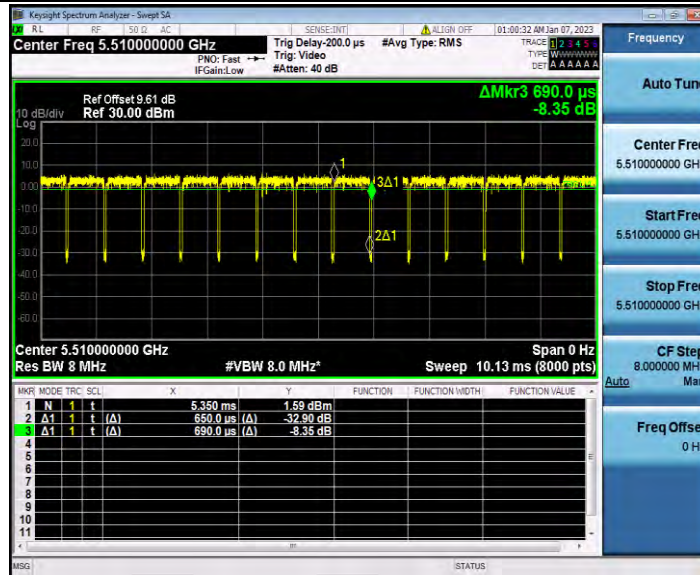
11N20SISO_Ant1_5600



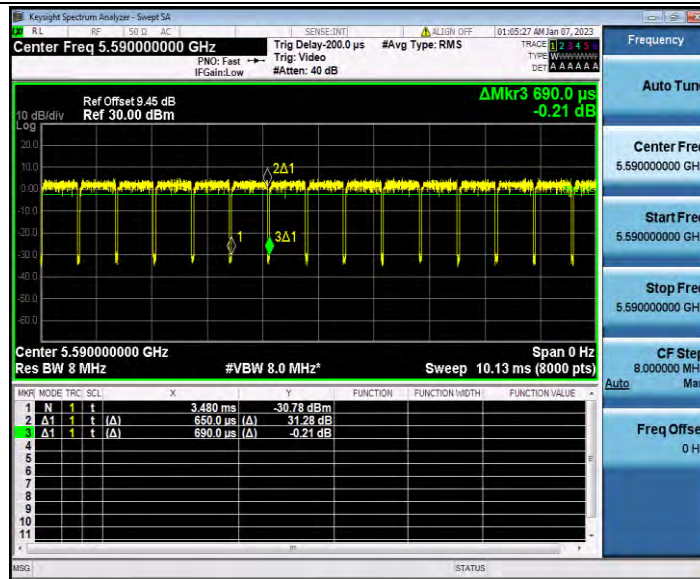
11N20SISO_Ant1_5700



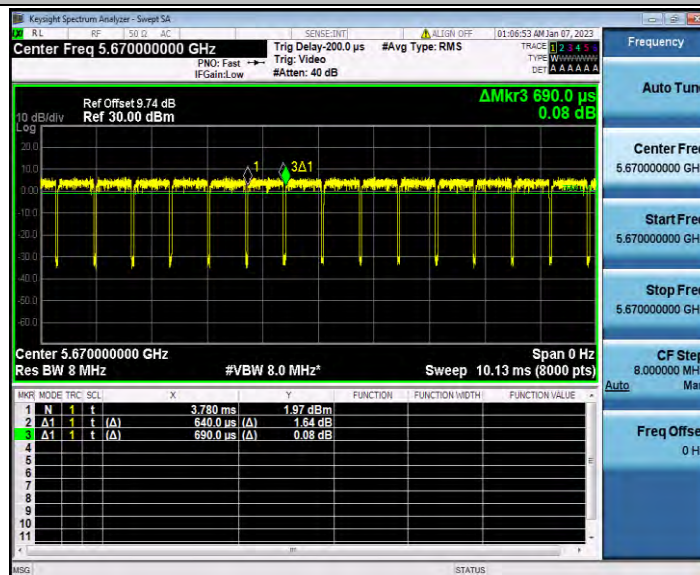
11N40SISO_Ant1_5510



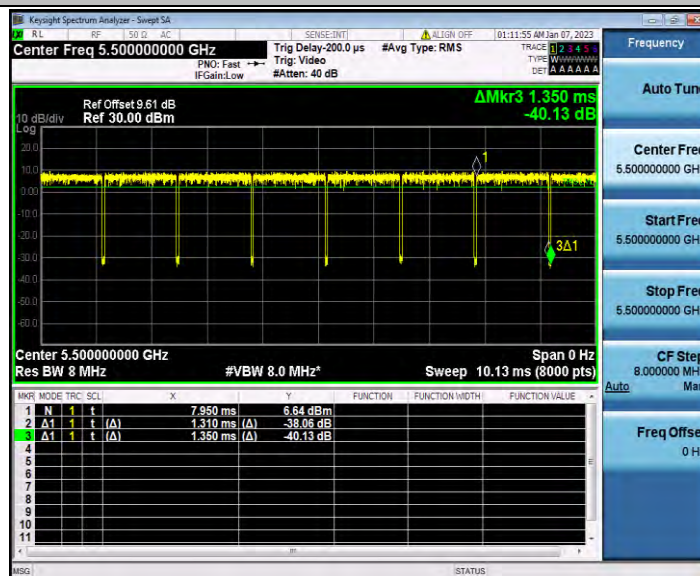
11N40SISO_Ant1_5590



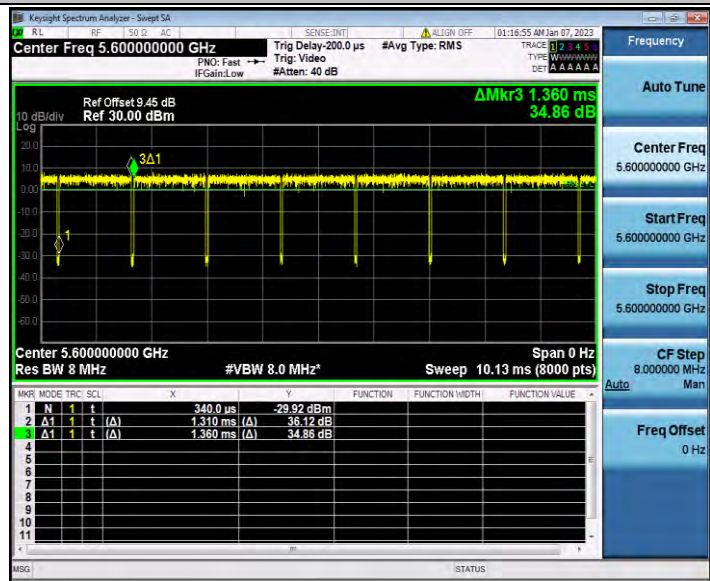
11N40SISO_Ant1_5670



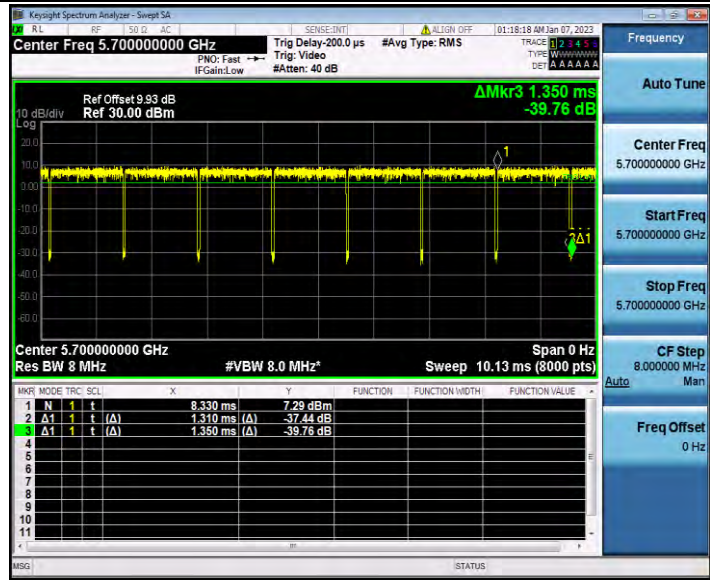
11AC20SISO_Ant1_5500



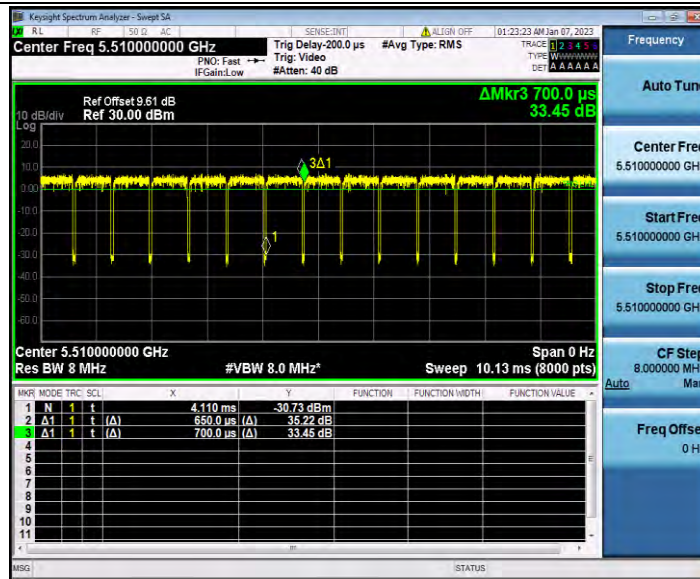
11AC20SISO_Ant1_5600



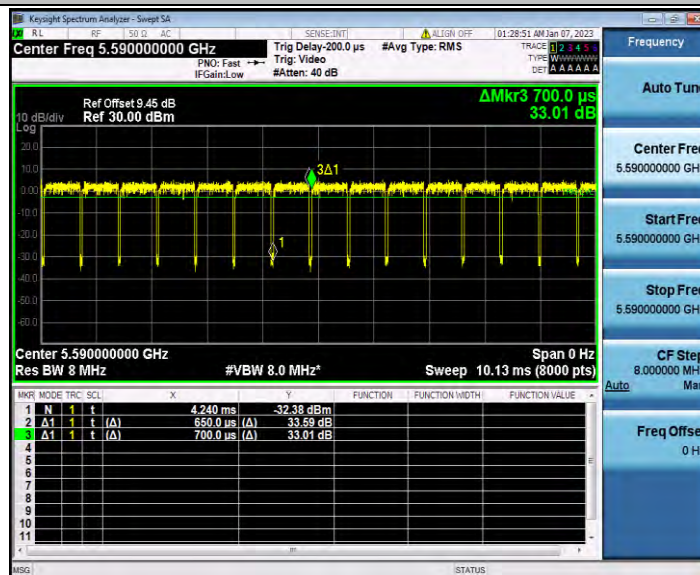
11AC20SISO_Ant1_5700



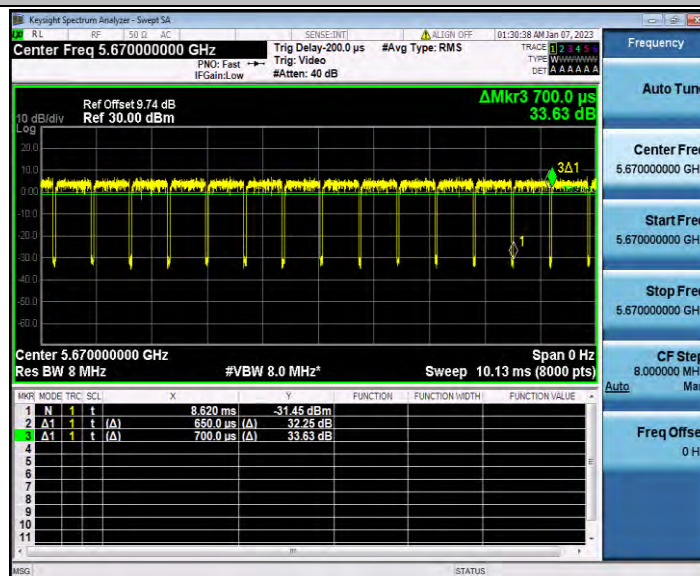
11AC40SISO_Ant1_5510



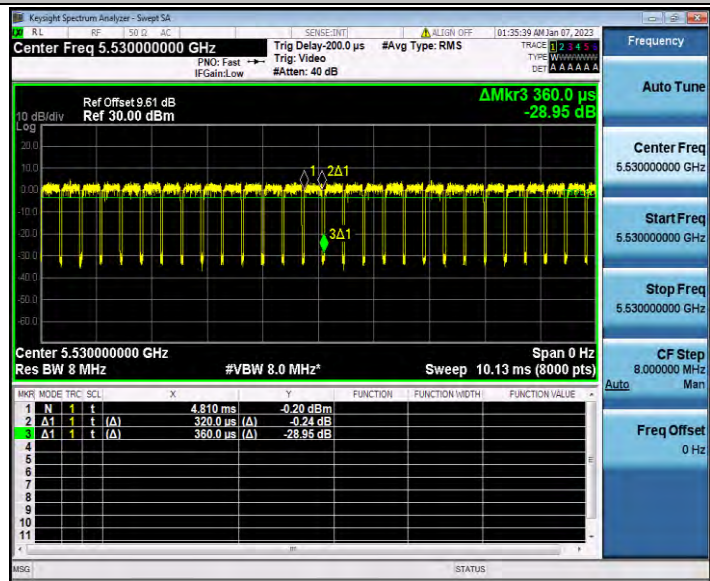
11AC40SISO_Ant1_5590



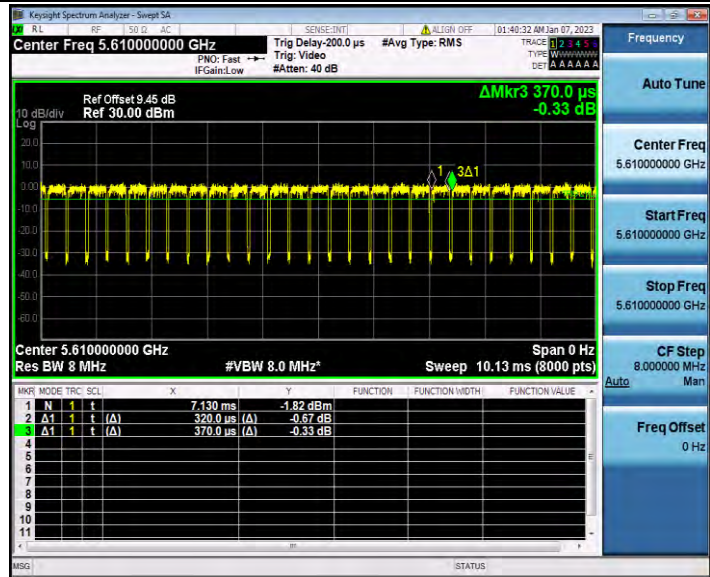
11AC40SISO_Ant1_5670



11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610



Appendix F.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[M Hz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5500	9.74	97.20	0.12	9.86	≤23.98	PASS
		5600	8.16	96.53	0.15	8.31	≤23.98	PASS
		5700	9.81	97.22	0.12	9.93	≤23.98	PASS
11N20SISO	Ant1	5500	9.80	97.01	0.13	9.93	≤23.98	PASS
		5600	8.08	96.30	0.16	8.24	≤23.98	PASS
		5700	9.70	97.01	0.13	9.83	≤23.98	PASS
11N40SISO	Ant1	5510	8.52	94.20	0.26	8.78	≤23.98	PASS
		5590	7.73	94.20	0.26	7.99	≤23.98	PASS
		5670	9.10	92.75	0.33	9.43	≤23.98	PASS
11AC20SISO	Ant1	5500	9.94	97.04	0.13	10.07	≤23.98	PASS
		5600	8.06	96.32	0.16	8.22	≤23.98	PASS
		5700	9.66	97.04	0.13	9.79	≤23.98	PASS
11AC40SISO	Ant1	5510	9.60	92.86	0.32	9.92	≤23.98	PASS
		5590	7.69	92.86	0.32	8.01	≤23.98	PASS
		5670	9.09	92.86	0.32	9.41	≤23.98	PASS
11AC80SISO	Ant1	5530	8.87	88.89	0.51	9.38	≤23.98	PASS
		5610	7.33	86.49	0.63	7.96	≤23.98	PASS

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

Appendix F.5: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5500	-0.93	≤11.00	PASS
		5600	-2.48	≤11.00	PASS
		5700	-0.82	≤11.00	PASS
11N20SISO	Ant1	5500	-1.14	≤11.00	PASS
		5600	-2.75	≤11.00	PASS
		5700	-1.14	≤11.00	PASS
11N40SISO	Ant1	5510	-4.55	≤11.00	PASS
		5590	-5.68	≤11.00	PASS
		5670	-4.1	≤11.00	PASS
11AC20SISO	Ant1	5500	-1.03	≤11.00	PASS
		5600	-2.74	≤11.00	PASS
		5700	-1.15	≤11.00	PASS
11AC40SISO	Ant1	5510	-3.49	≤11.00	PASS
		5590	-5.67	≤11.00	PASS
		5670	-4.15	≤11.00	PASS
11AC80SISO	Ant1	5530	-6.59	≤11.00	PASS
		5610	-8.27	≤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_5500



11A_Ant1_5600



11A_Ant1_5700



11N20SISO_Ant1_5500



11N20SISO_Ant1_5600



11N20SISO_Ant1_5700



11N40SISO_Ant1_5510



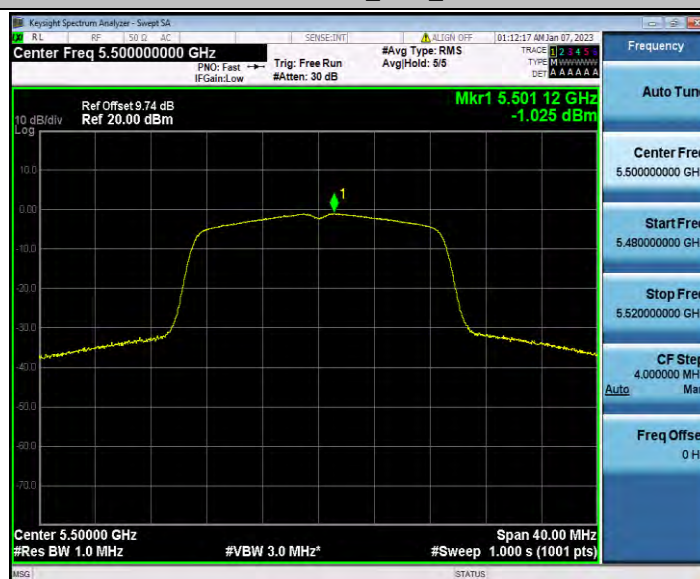
11N40SISO_Ant1_5590



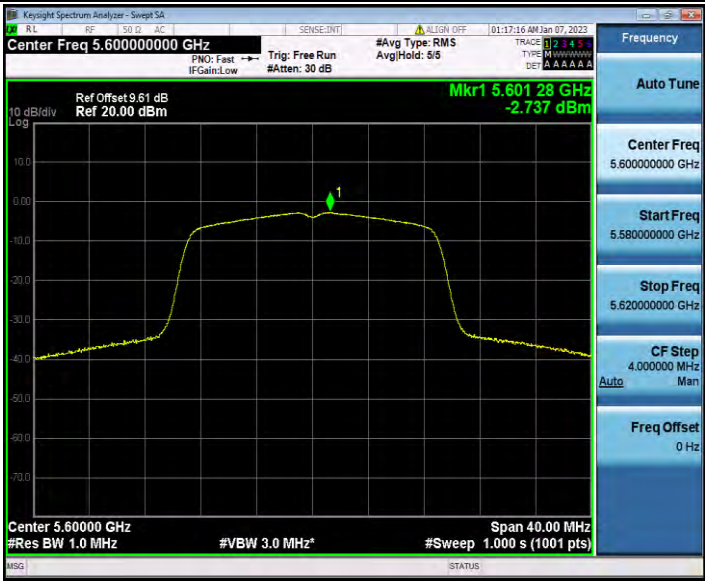
11N40SISO_Ant1_5670



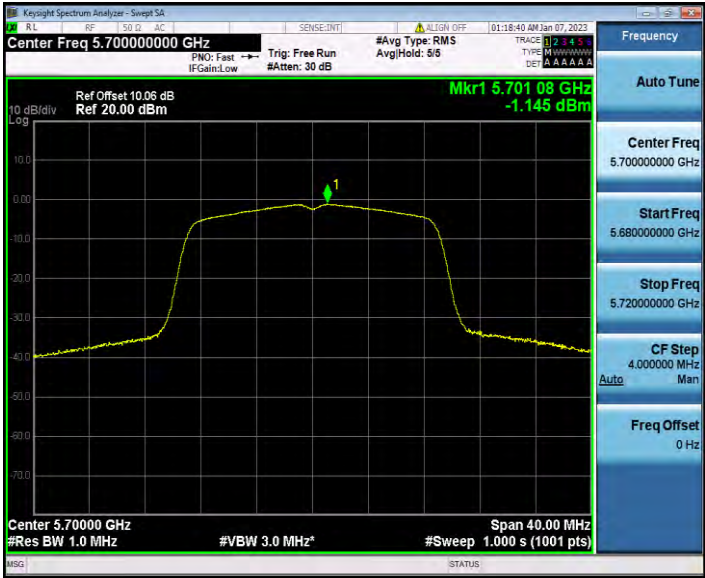
11AC20SISO_Ant1_5500



11AC20SISO_Ant1_5600



11AC20SISO_Ant1_5700



11AC40SISO_Ant1_5510



11AC40SISO_Ant1_5590



11AC40SISO_Ant1_5670



11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610



Appendix F.6: Band edge measurements

Test Result B3

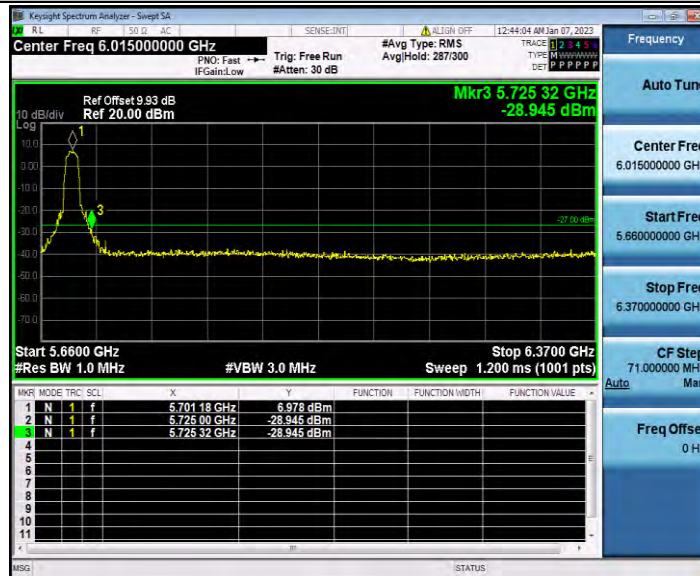
TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5500	-33.39	≤-27	PASS
		High	5700	-28.95	≤-27	PASS
11N20SISO	Ant1	Low	5500	-32.96	≤-27	PASS
		High	5700	-27.91	≤-27	PASS
11N40SISO	Ant1	Low	5510	-31.21	≤-27	PASS
		High	5670	-32.44	≤-27	PASS
11AC20SISO	Ant1	Low	5500	-31.46	≤-27	PASS
		High	5700	-28.76	≤-27	PASS
11AC40SISO	Ant1	Low	5510	-28.71	≤-27	PASS
		High	5670	-34.15	≤-27	PASS
11AC80SISO	Ant1	Low	5530	-31.67	≤-27	PASS
		High	5610	-33.65	≤-27	PASS

Test Graphs B3

11A_Ant1_Low_5500



11A_Ant1_High_5700



11N20SISO_Ant1_Low_5500



11N20SISO_Ant1_High_5700



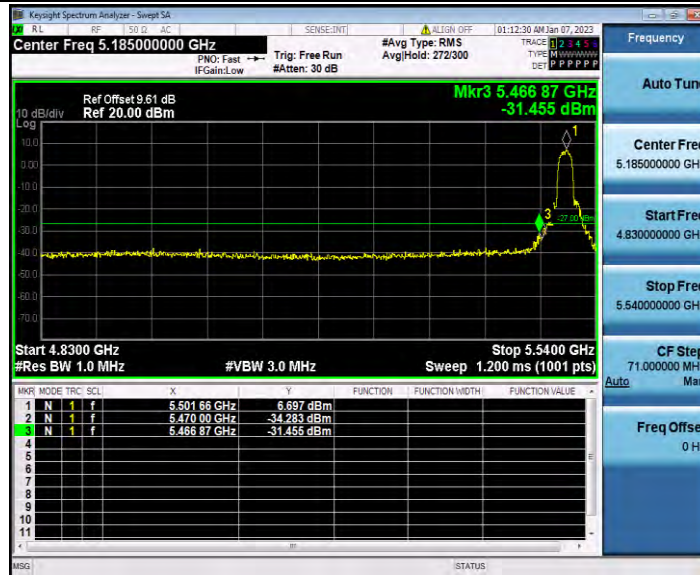
11N40SISO_Ant1_Low_5510



11N40SISO_Ant1_High_5670



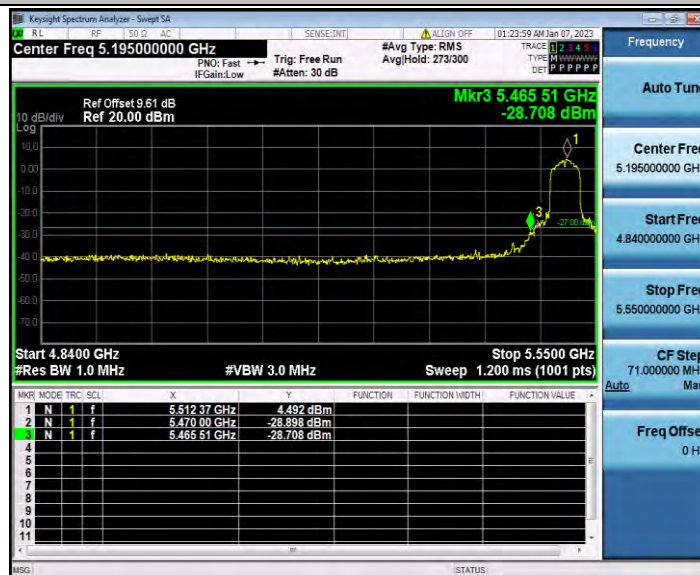
11AC20SISO_Ant1_Low_5500



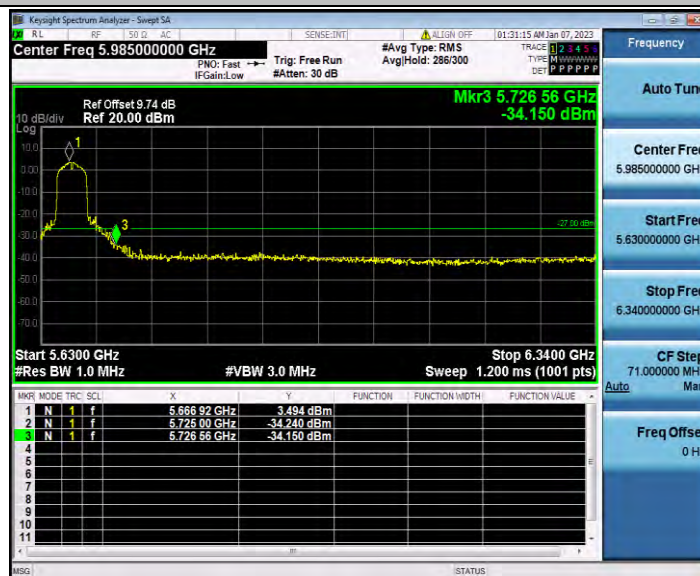
11AC20SISO_Ant1_High_5700



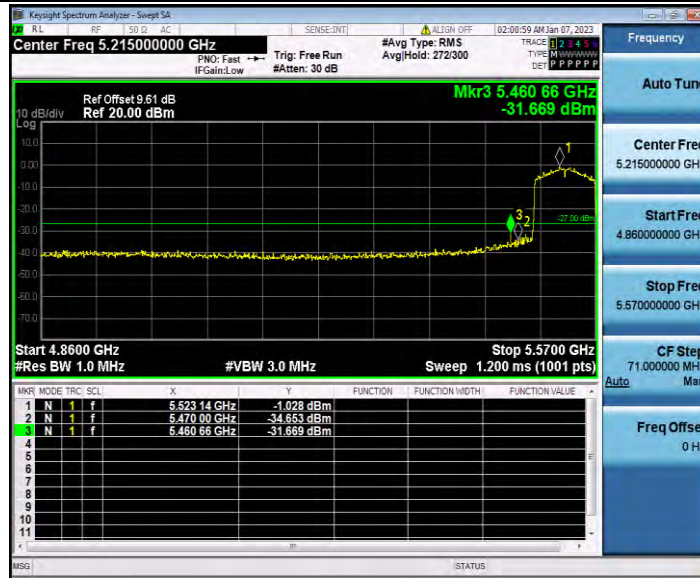
11AC40SISO_Ant1_Low_5510



11AC40SISO_Ant1_High_5670



11AC80SISO_Ant1_Low_5530



11AC80SISO_Ant1_High_5610



Appendix F.7: Conducted Spurious Emission

Test Result

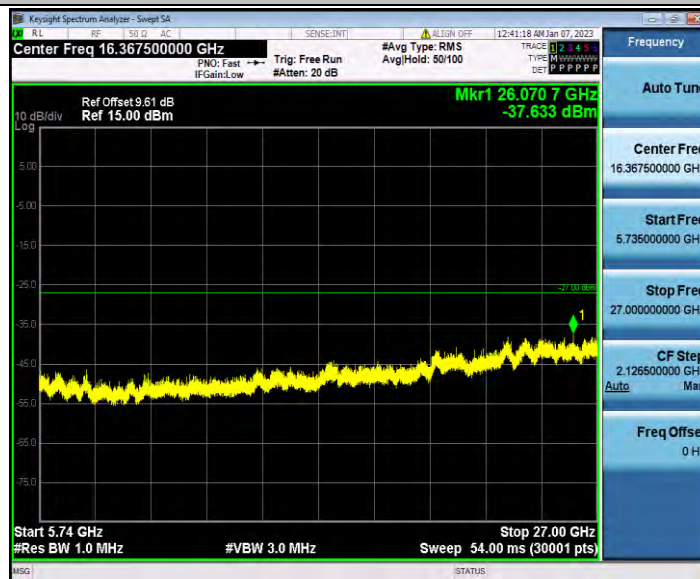
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5500	30~5460	5460	-41.73	≤-27	PASS
			5735~40000	26070.72	-37.63	≤-27	PASS
		5600	30~5460	5447.33	-47.3	≤-27	PASS
			5735~40000	23573.5	-38.26	≤-27	PASS
		5700	30~5460	5418.73	-45.71	≤-27	PASS
			5735~40000	24273.83	-37.82	≤-27	PASS
11N20SISO	Ant1	5500	30~5460	5459.82	-40.82	≤-27	PASS
			5735~40000	26481.13	-38.2	≤-27	PASS
		5600	30~5460	2676.76	-47.03	≤-27	PASS
			5735~40000	24205.78	-38.5	≤-27	PASS
		5700	30~5460	5451.86	-45.64	≤-27	PASS
			5735~40000	5735.71	-36.94	≤-27	PASS
11N40SISO	Ant1	5510	30~5460	5459.28	-38.06	≤-27	PASS
			5735~40000	24261.78	-38.29	≤-27	PASS
		5590	30~5460	5013.11	-46.58	≤-27	PASS
			5735~40000	23601.14	-37.86	≤-27	PASS
		5670	30~5460	4862.7	-46.89	≤-27	PASS
			5735~40000	26056.54	-37.8	≤-27	PASS
11AC20SISO	Ant1	5500	30~5460	5457.1	-38.52	≤-27	PASS
			5735~40000	25557.52	-37.69	≤-27	PASS
		5600	30~5460	4952.66	-46.28	≤-27	PASS
			5735~40000	26066.47	-38.4	≤-27	PASS
		5700	30~5460	5376.02	-46.57	≤-27	PASS
			5735~40000	5735.71	-37.73	≤-27	PASS
11AC40SISO	Ant1	5510	30~5460	5459.82	-31.55	≤-27	PASS
			5735~40000	25150.65	-37.32	≤-27	PASS
		5590	30~5460	5403.35	-46.28	≤-27	PASS
			5735~40000	26926.28	-38.33	≤-27	PASS
		5670	30~5460	5422.9	-46.69	≤-27	PASS
			5735~40000	24251.85	-37.94	≤-27	PASS
11AC80SISO	Ant1	5530	30~5460	5450.23	-32.9	≤-27	PASS
			5735~40000	26573.99	-37.43	≤-27	PASS
		5610	30~5460	5458.19	-44.92	≤-27	PASS
			5735~40000	24923.83	-37.9	≤-27	PASS

Test Graphs

11A_Ant1_5500_30~5460



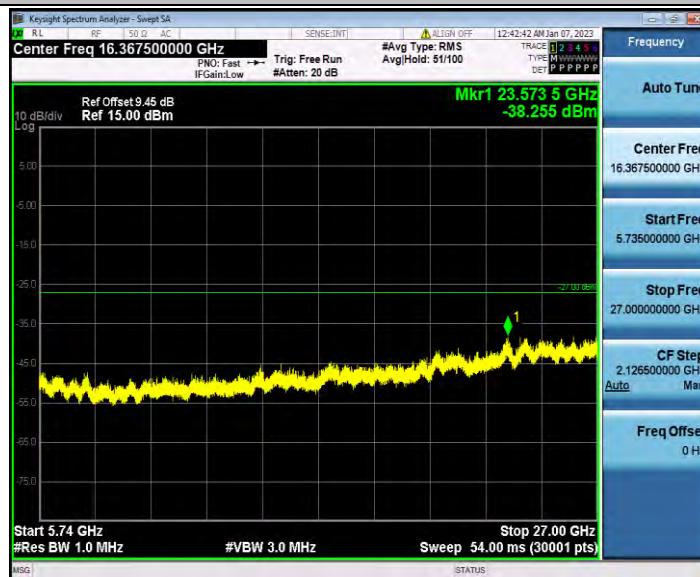
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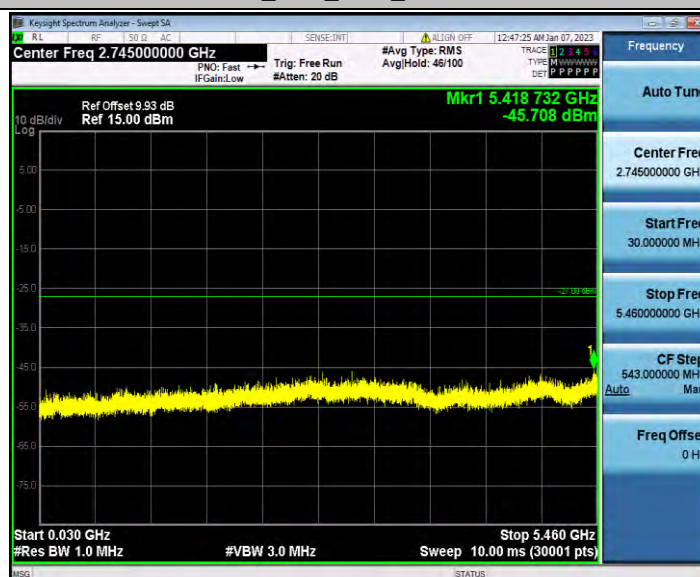
11A_Ant1_5600_30~5460



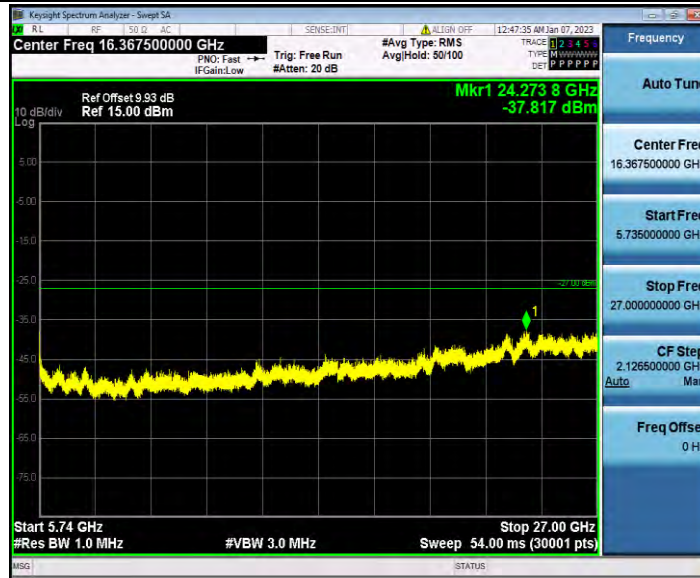
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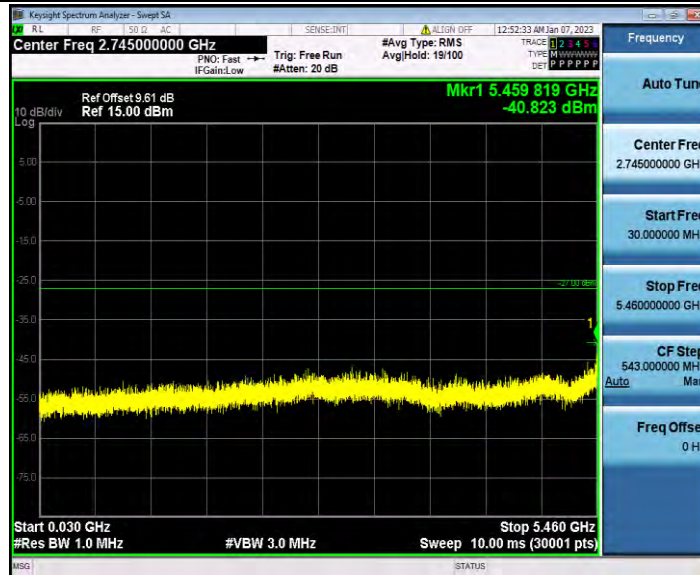
11A_Ant1_5700_30~5460



11A_Ant1_5700_5735~40000



11N20SISO_Ant1_5500_30~5460



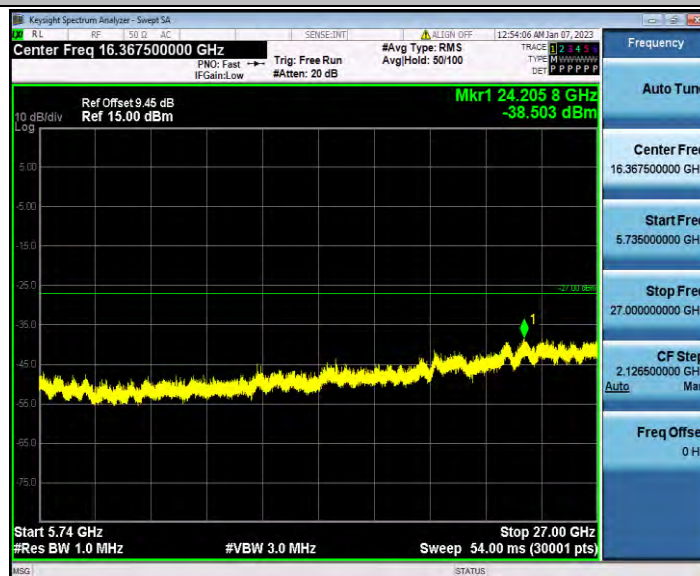
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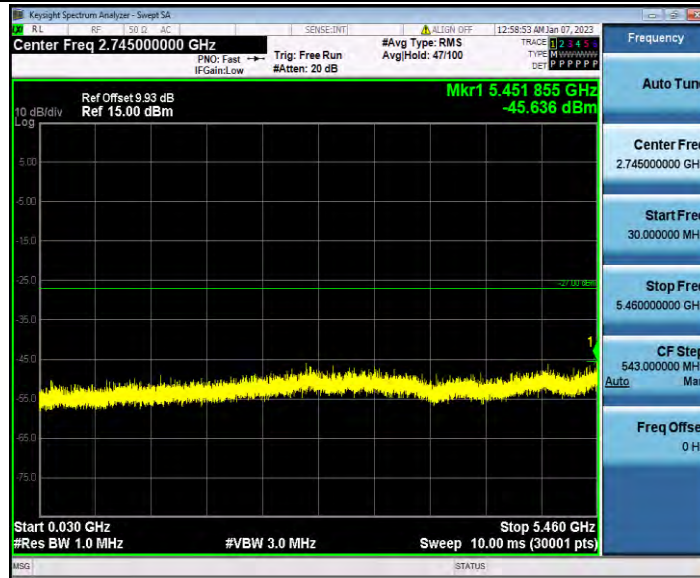
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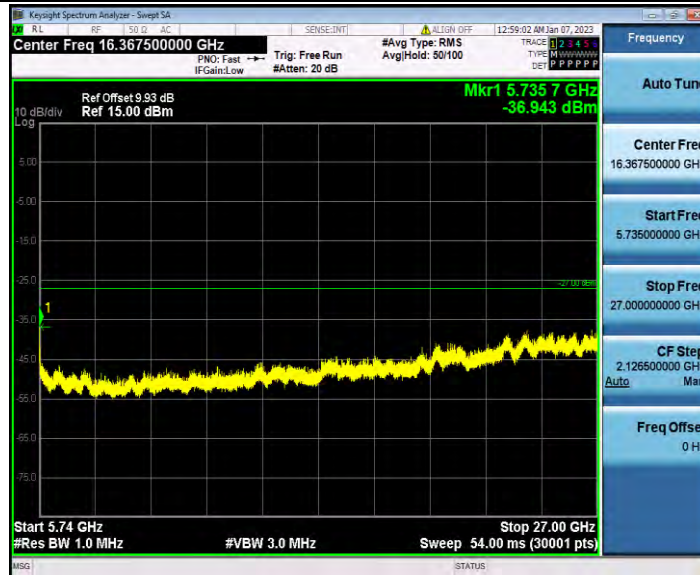
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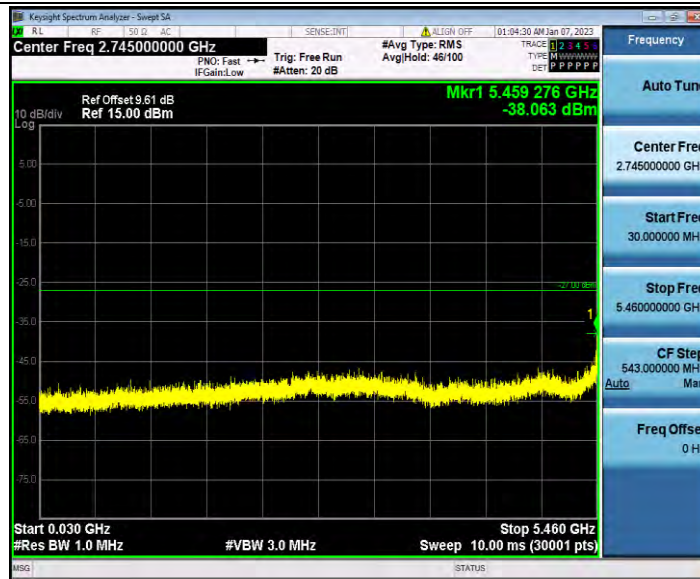
11N20SISO_Ant1_5700_30~5460



11N20SISO_Ant1_5700_5735~40000



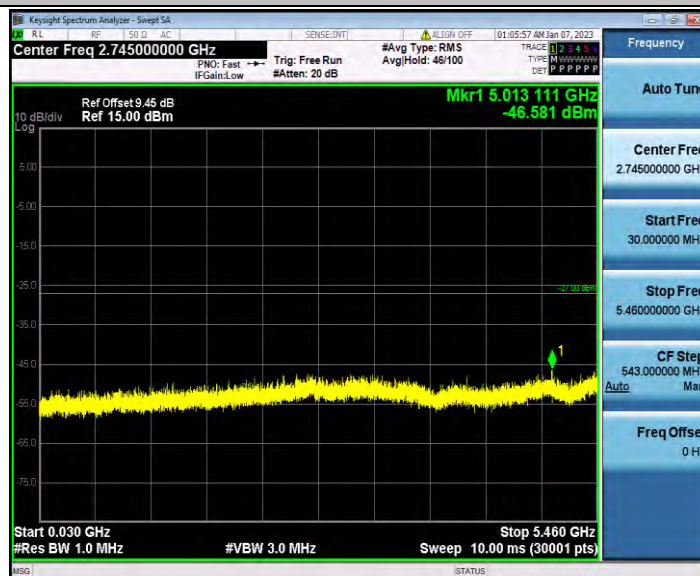
11N40SISO_Ant1_5510_30~5460



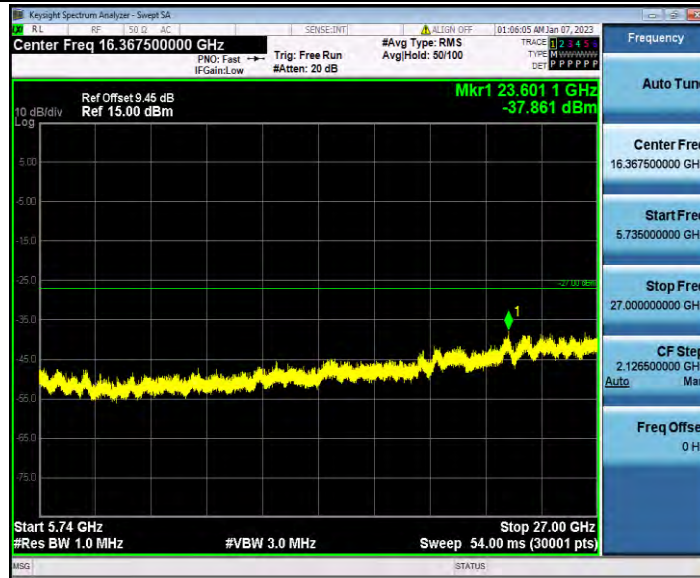
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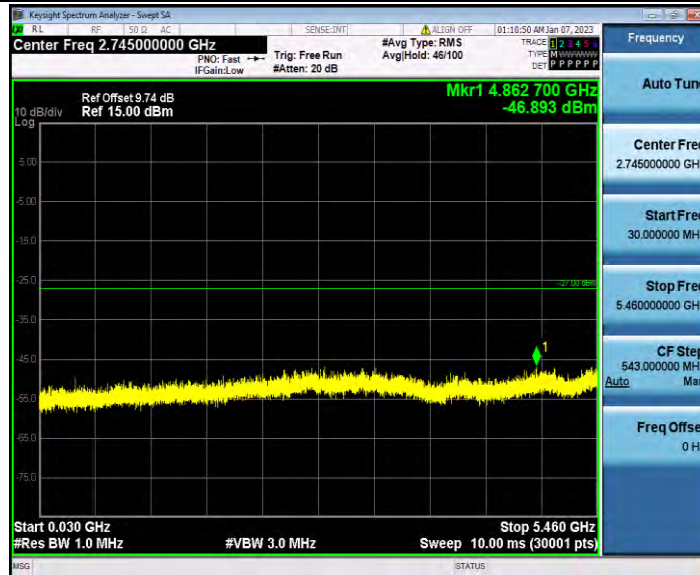
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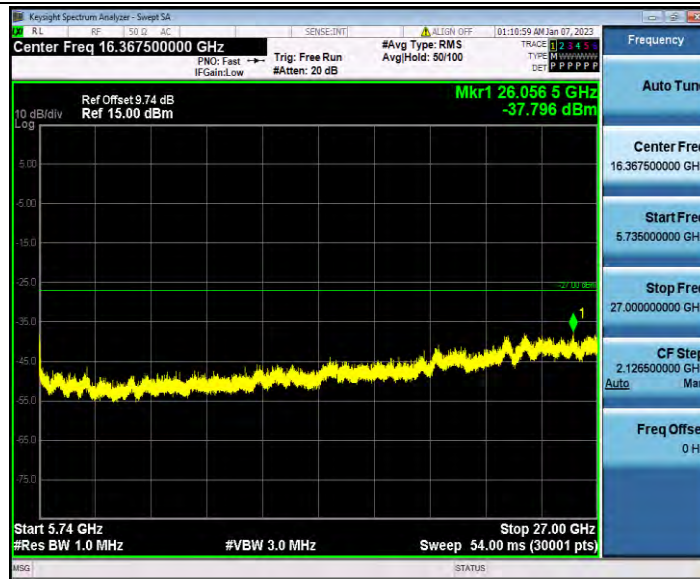
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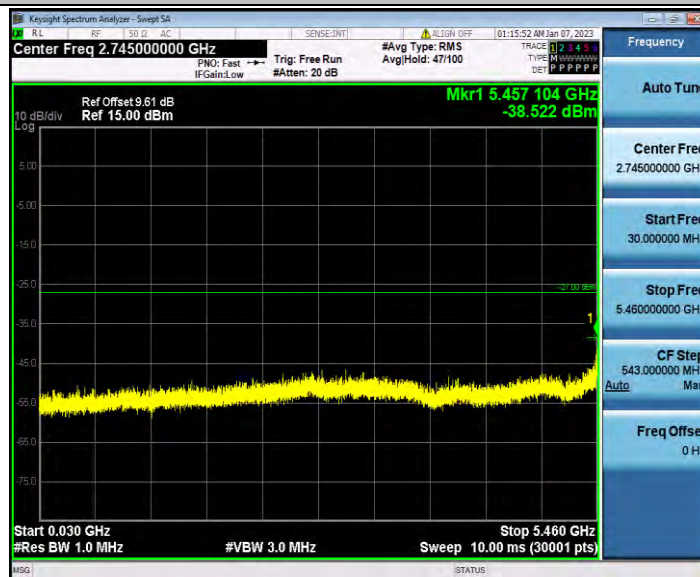
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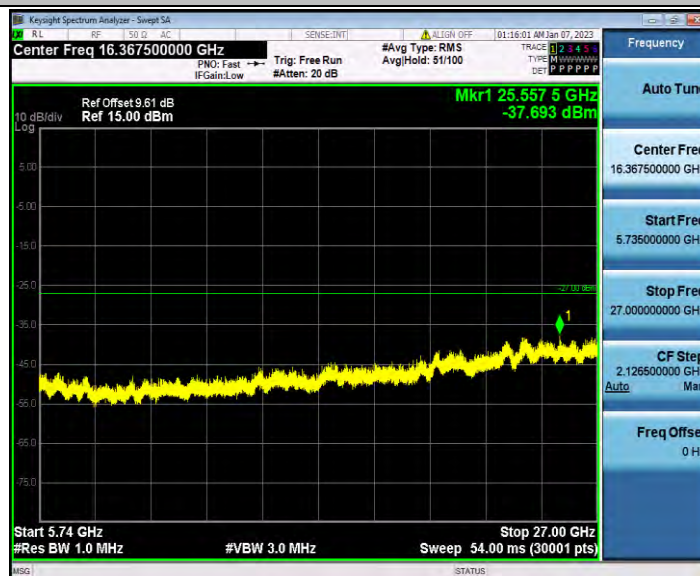
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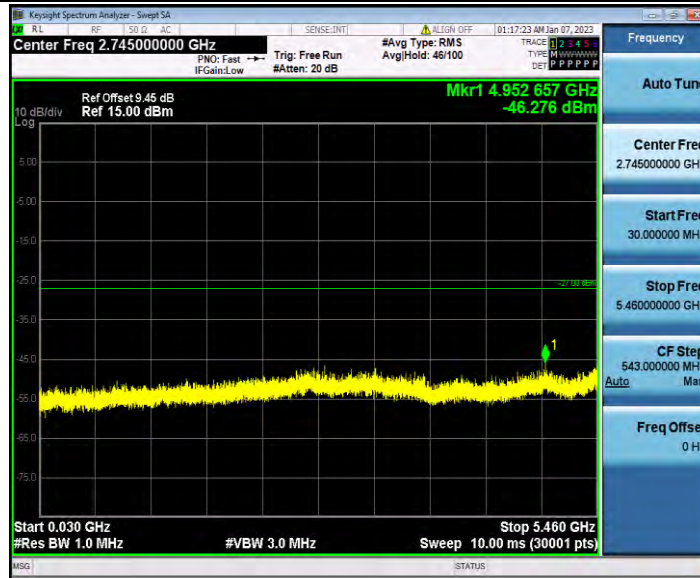
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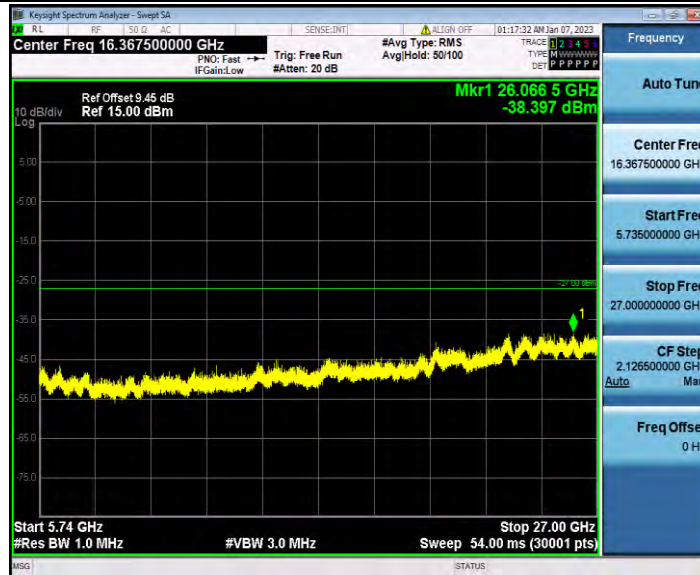
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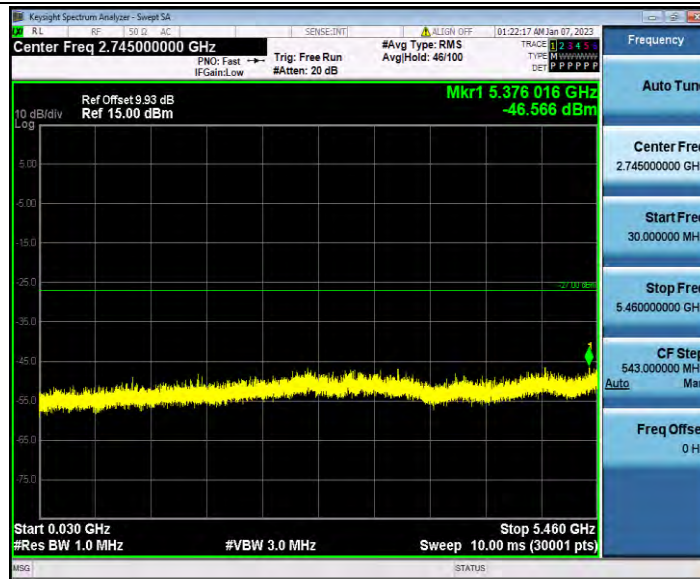
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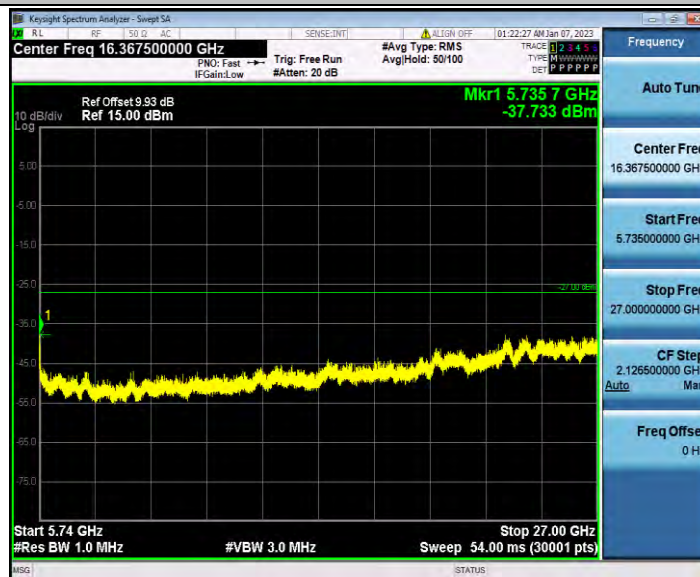
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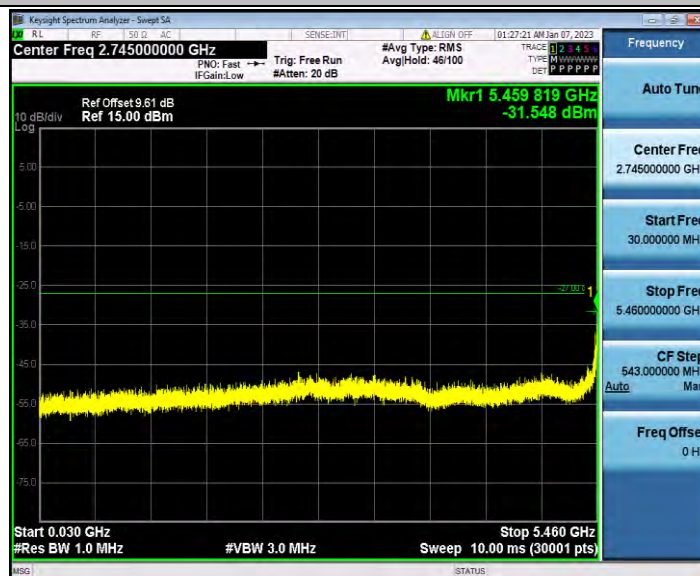
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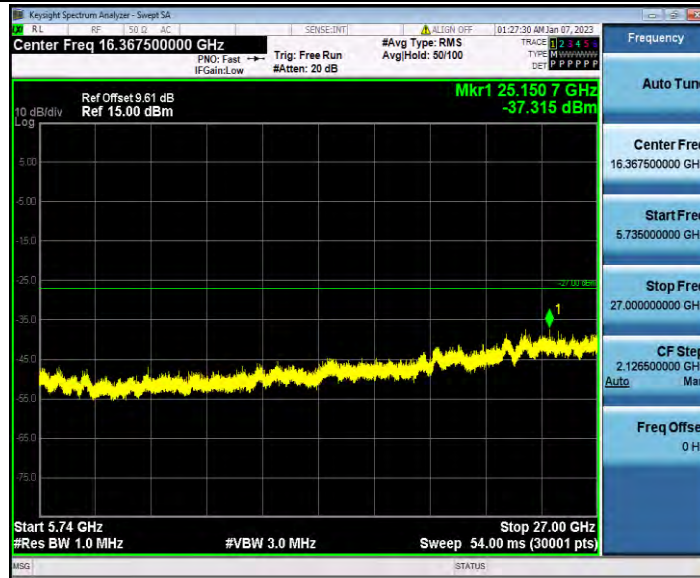
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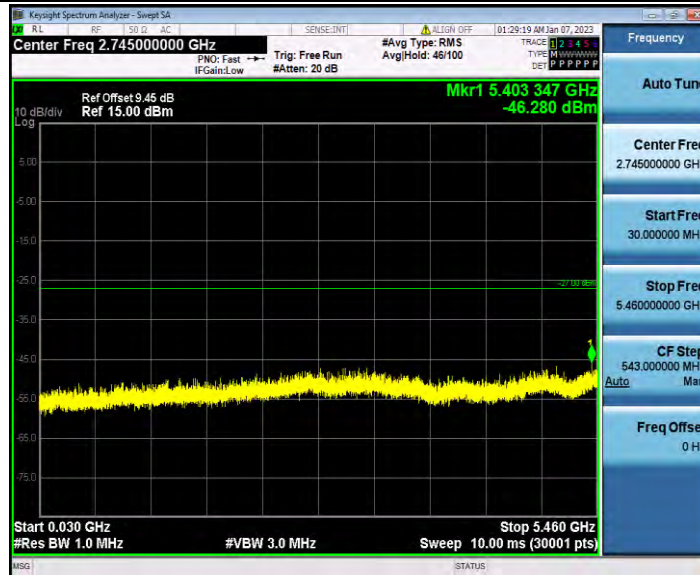
11AC40SISO_Ant1_5510_30~5460



11AC40SISO_Ant1_5510_5735~40000



11AC40SISO_Ant1_5590_30~5460



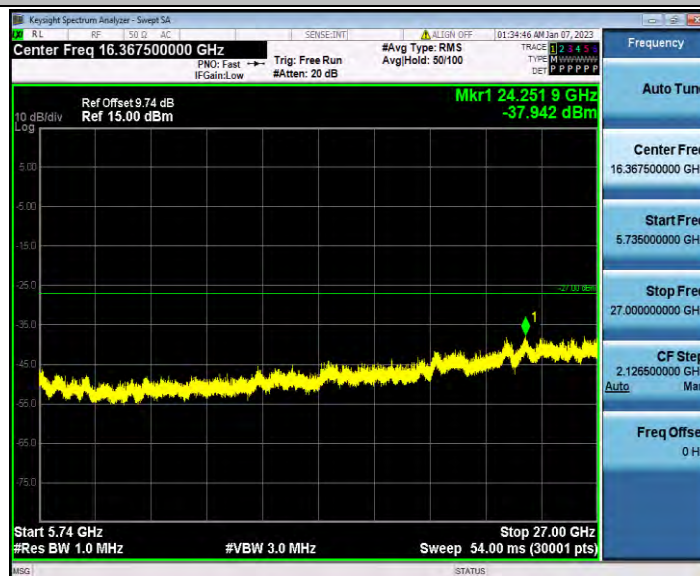
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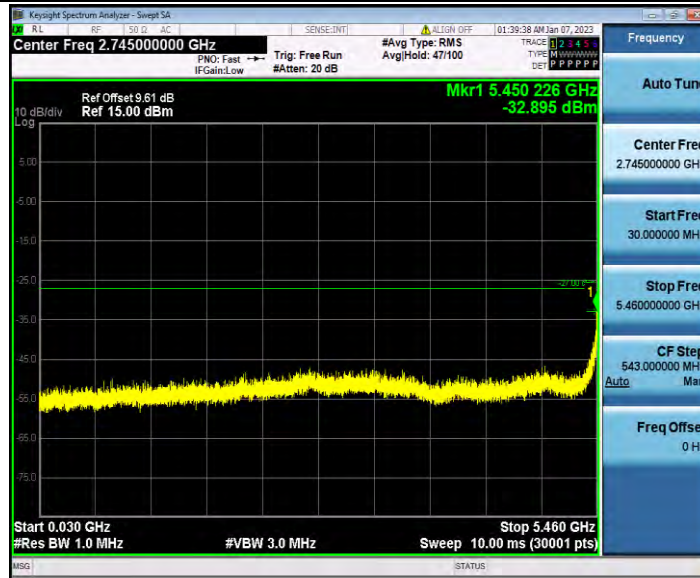
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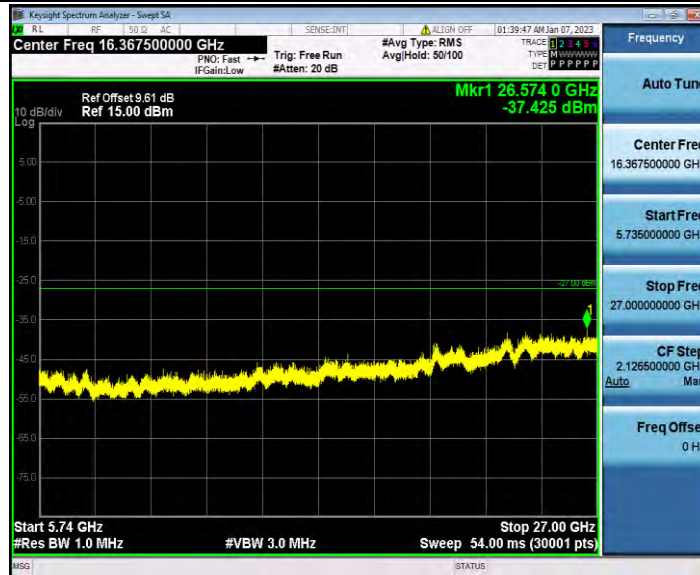
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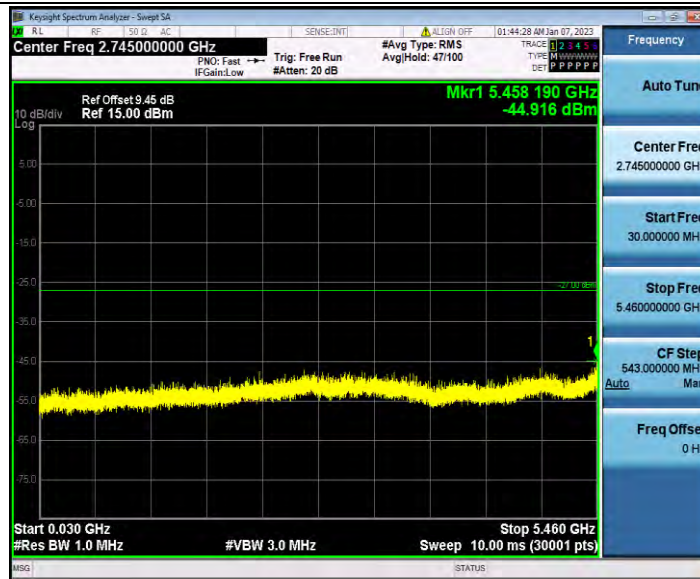
11AC80SISO_Ant1_5530_30~5460



11AC80SISO_Ant1_5530_5735~40000



11AC80SISO_Ant1_5610_30~5460



11AC80SISO_Ant1_5610_5735~40000

