

Case No. : <u>GTS20231017004-1-24</u>
Ambient Condition: <u>23</u> °C, <u>48</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.11.21</u> Test Engineer: <u>Evan ouyang</u>

Appendix E.1: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.440	5736.276	5753.716	---	---
		5785	17.463	5776.282	5793.745	---	---
		5825	17.455	5816.338	5833.793	---	---
11N20SISO	Ant1	5745	18.089	5735.983	5754.072	---	---
		5785	18.013	5775.997	5794.010	---	---
		5825	18.071	5816.018	5834.089	---	---
11N40SISO	Ant1	5755	36.318	5736.910	5773.228	---	---
		5795	36.298	5776.930	5813.228	---	---
11AC20SISO	Ant1	5745	18.058	5735.972	5754.030	---	---
		5785	18.082	5775.986	5794.068	---	---
		5825	18.056	5816.012	5834.068	---	---
11AC40SISO	Ant1	5755	36.218	5736.950	5773.168	---	---
		5795	36.253	5776.956	5813.209	---	---
11AC80SISO	Ant1	5775	75.217	5737.542	5812.759	---	---

Test Graphs



11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



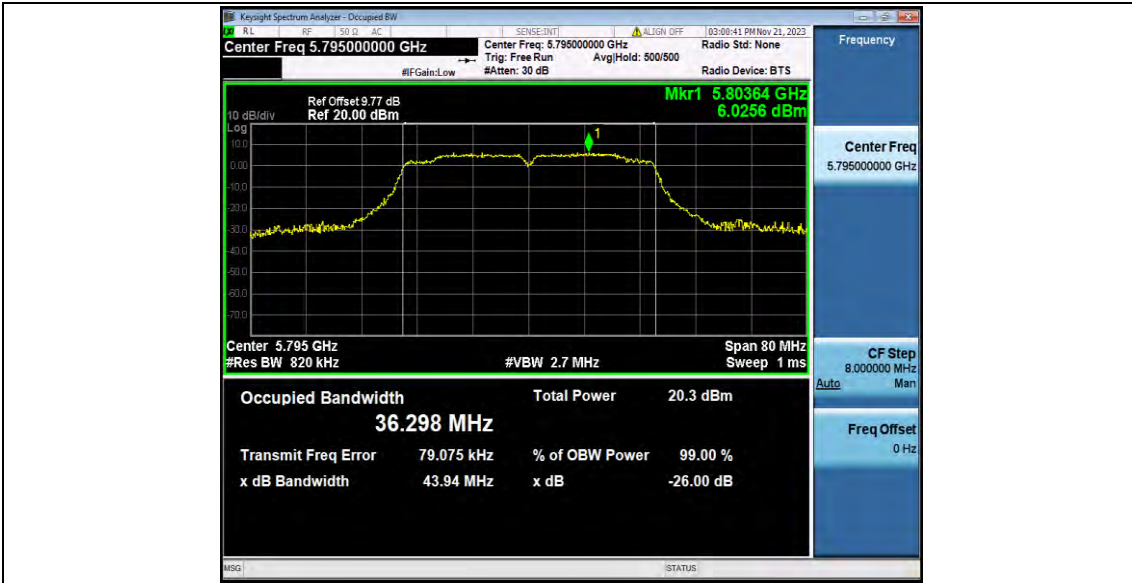
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11A20SISO_Ant1_5745



11AC20SISO_Ant1_5785



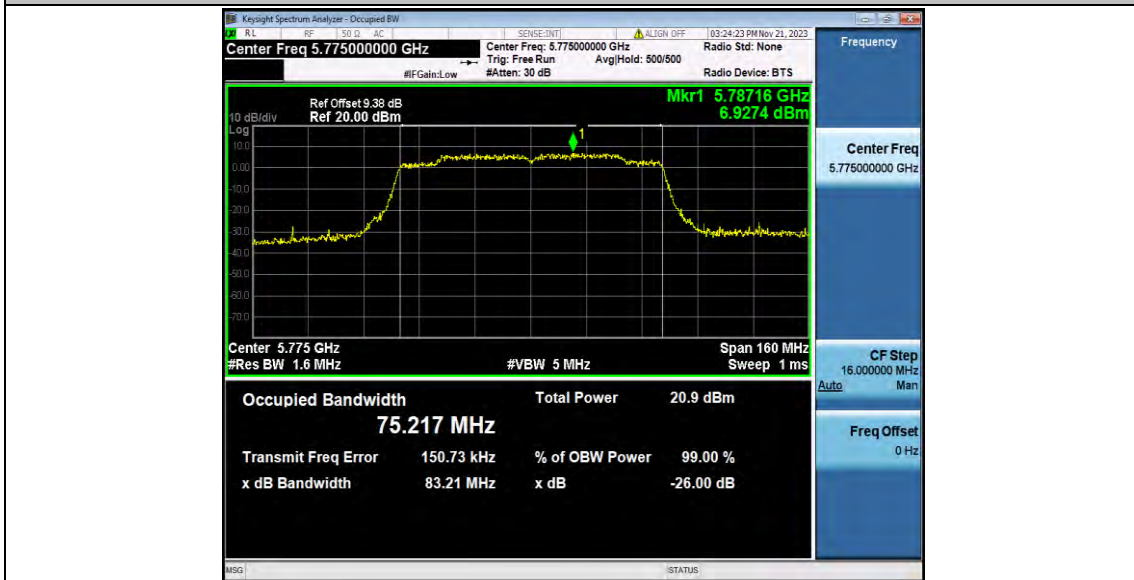
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



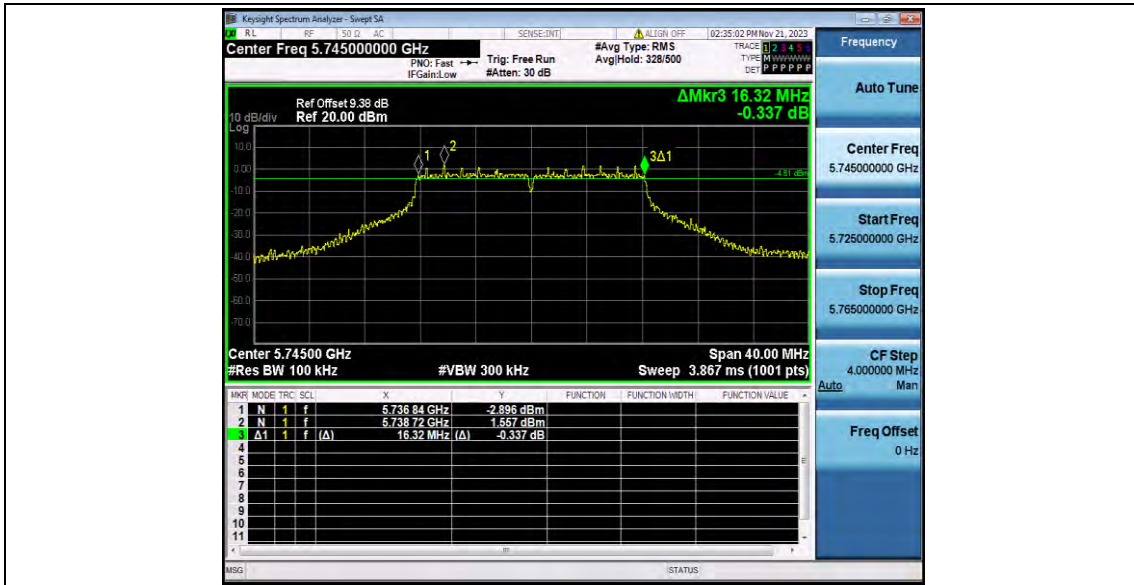
11AC80SISO_Ant1_5775

Appendix E.2: Min emission bandwidth

Test Result B4

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.320	5736.840	5753.160	0.5	PASS
		5785	16.360	5776.800	5793.160	0.5	PASS
		5825	16.280	5816.880	5833.160	0.5	PASS
11N20SISO	Ant1	5745	16.040	5736.480	5752.520	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	13.160	5819.360	5832.520	0.5	PASS
11N40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	13.880	5737.440	5751.320	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11AC40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	33.840	5778.680	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

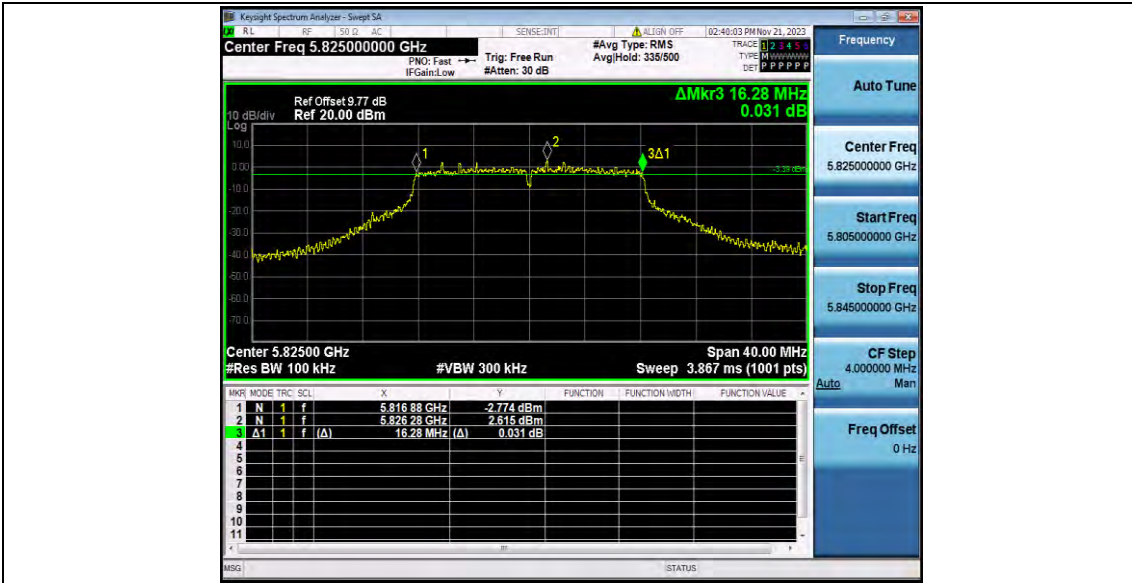
Test Graphs B4



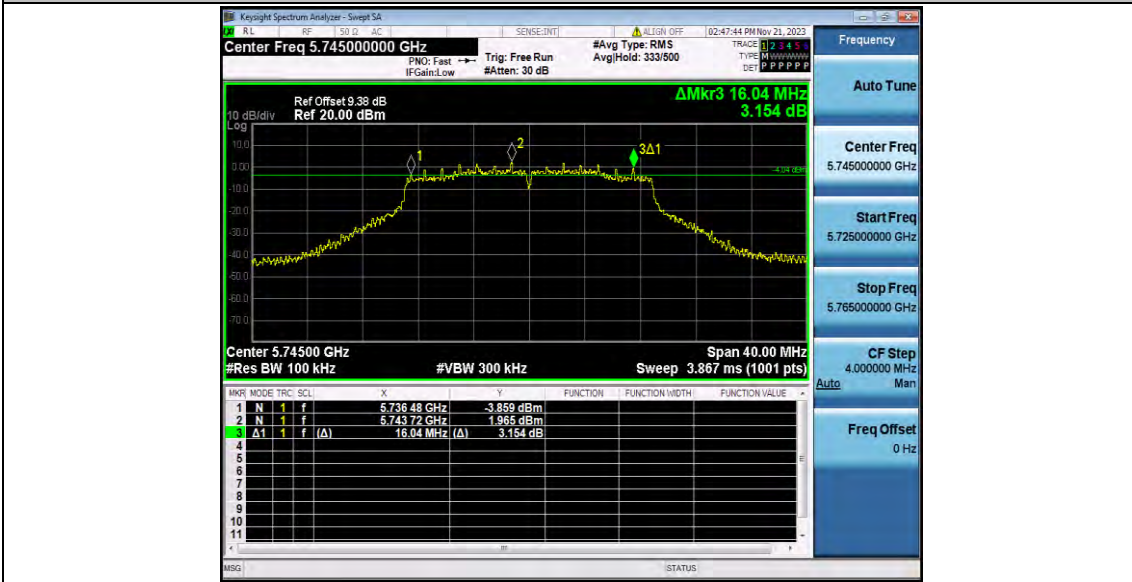
11A_Ant1_5745



11A_Ant1_5785



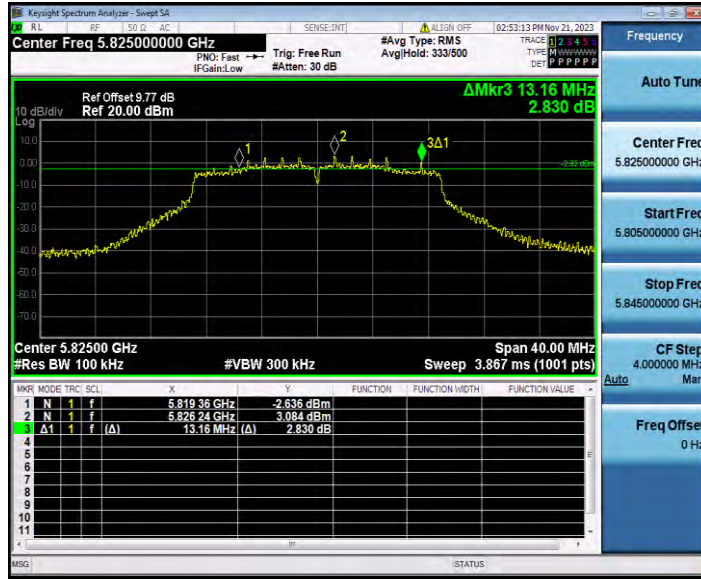
11A_Ant1_5825



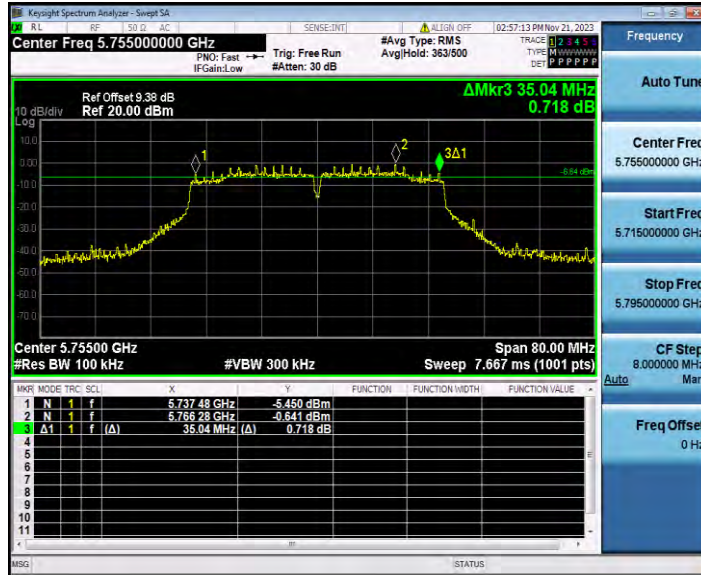
11N20SISO_Ant1_5745



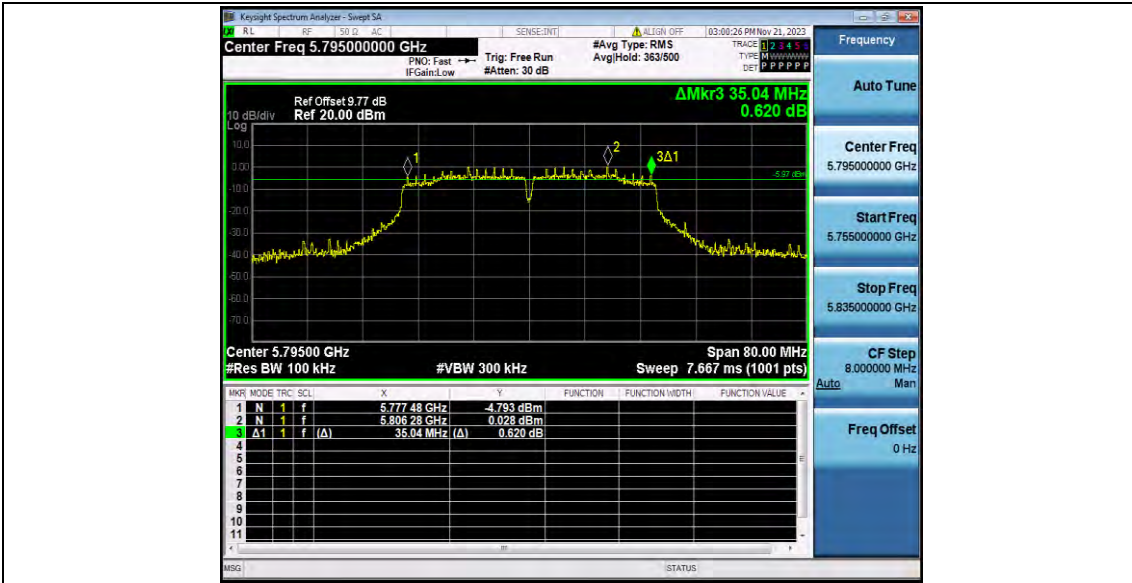
11N20SISO_Ant1_5785



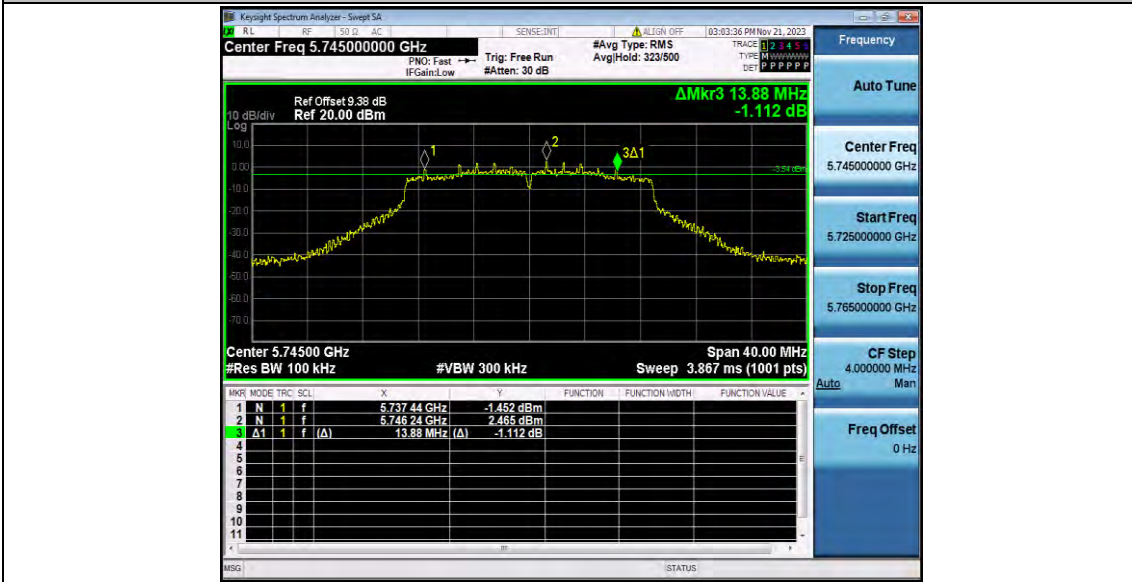
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



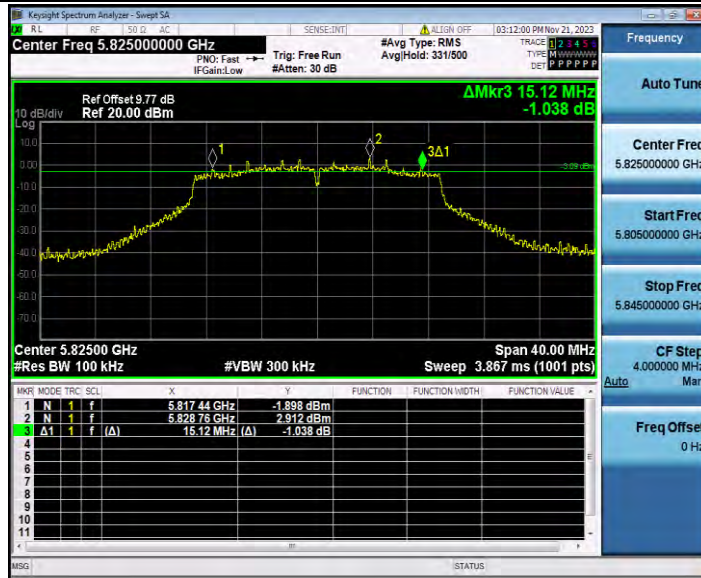
11N40SISO_Ant1_5795



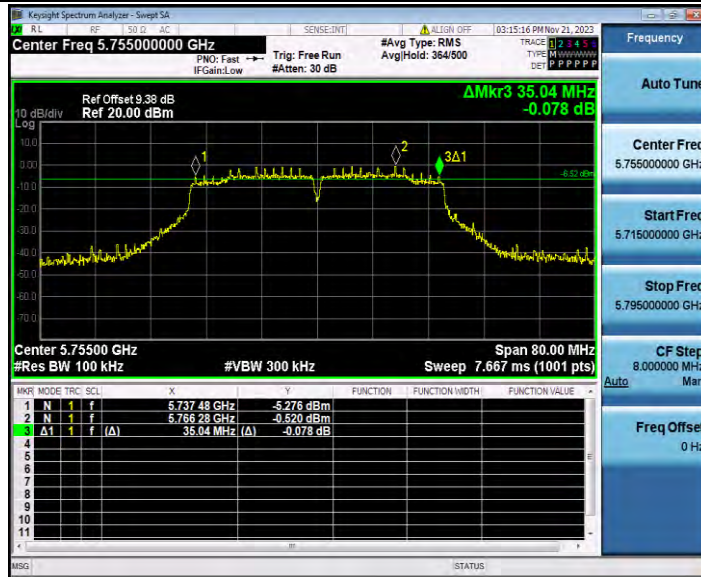
11AC20SISO_Ant1_5745



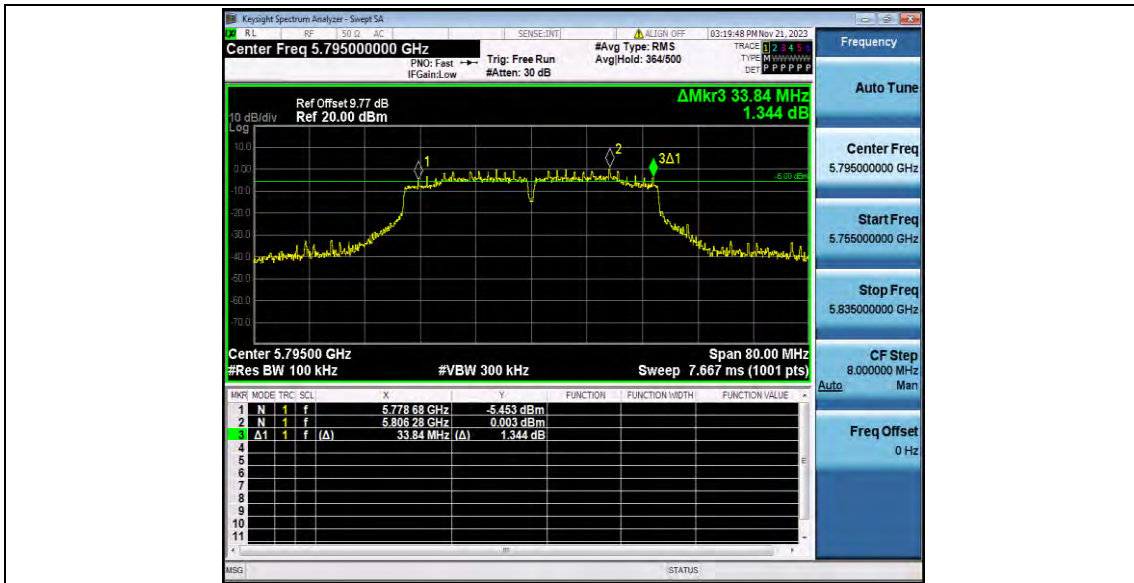
11AC20SISO_Ant1_5785



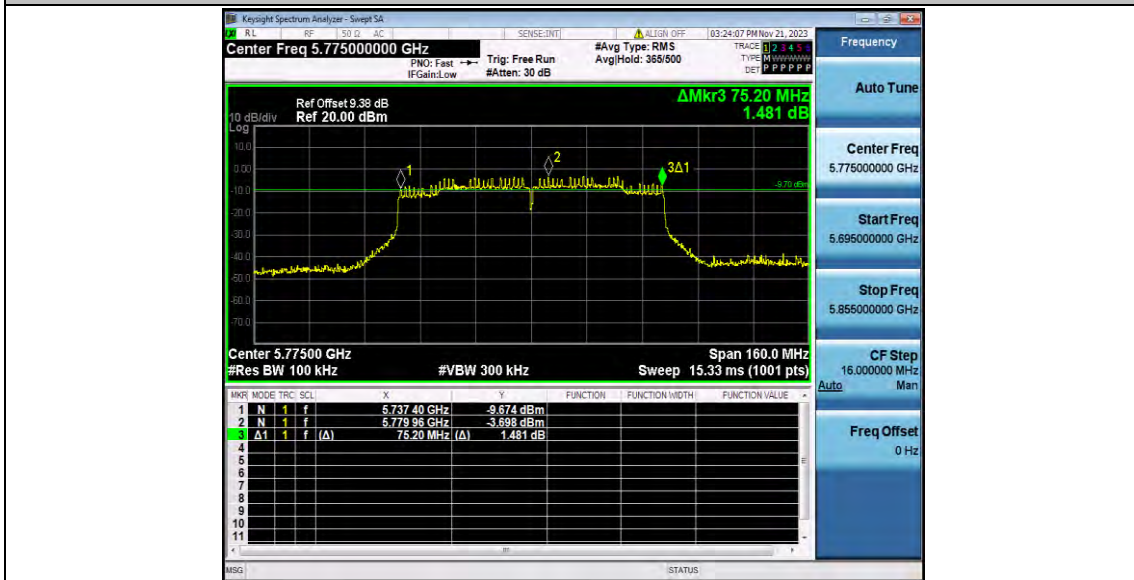
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



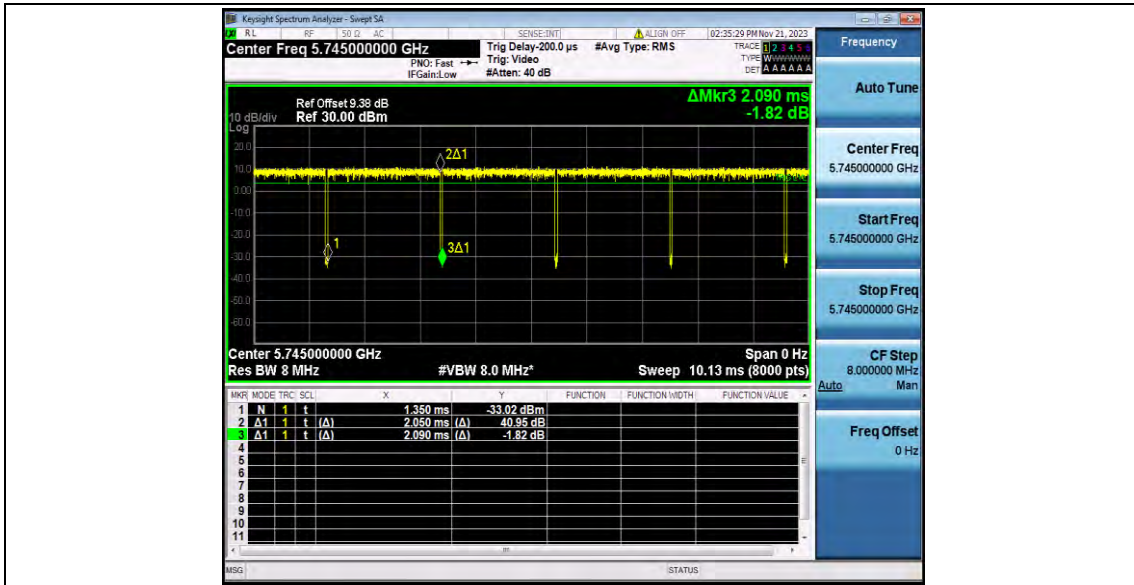
11AC80SISO_Ant1_5775

Appendix E.3: Duty Cycle

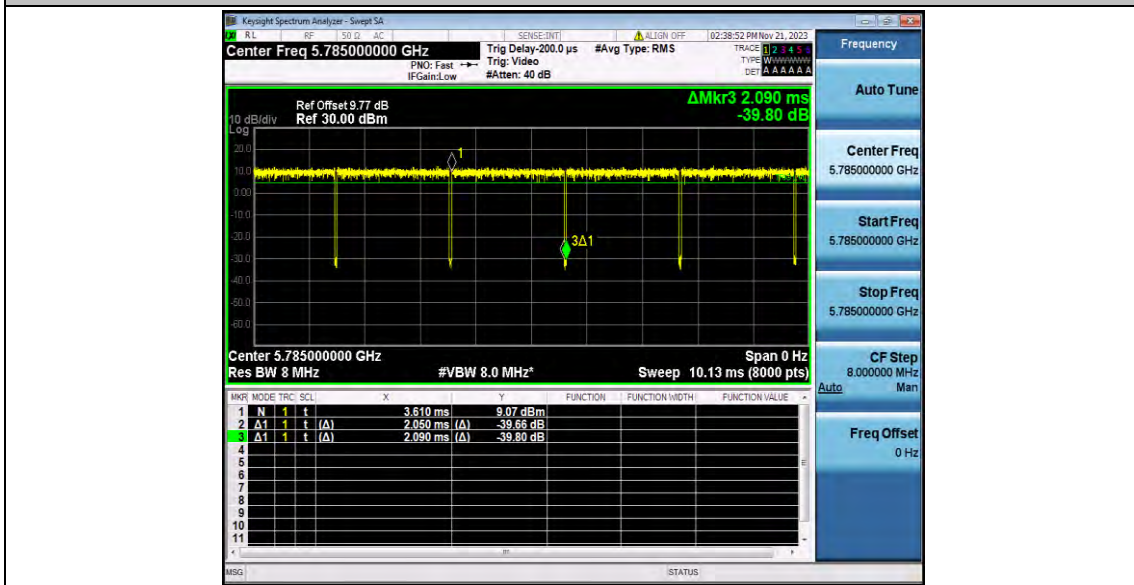
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	2.05	2.09	98.09
		5785	2.05	2.09	98.09
		5825	2.04	2.09	97.61
11N20SISO	Ant1	5745	1.90	1.95	97.44
		5785	1.91	1.95	97.95
		5825	1.91	1.95	97.95
11N40SISO	Ant1	5755	0.94	0.98	95.92
		5795	0.94	0.98	95.92
11AC20SISO	Ant1	5745	1.92	1.96	97.96
		5785	1.92	1.96	97.96
		5825	1.92	1.97	97.46
11AC40SISO	Ant1	5755	0.95	0.99	95.96
		5795	0.95	0.99	95.96
11AC80SISO	Ant1	5775	0.46	0.50	92.00

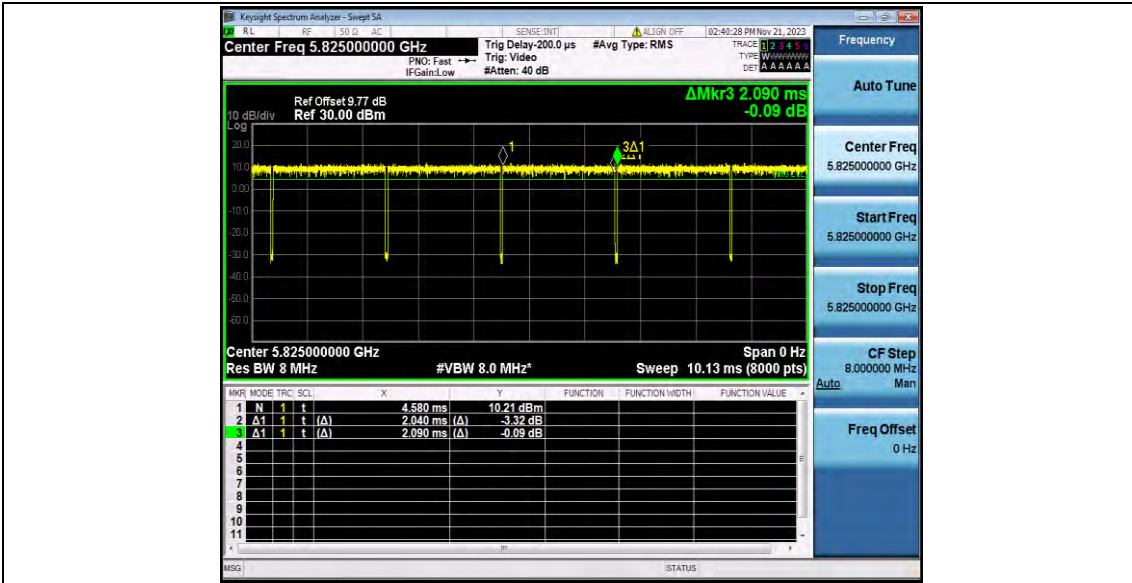
Test Graphs



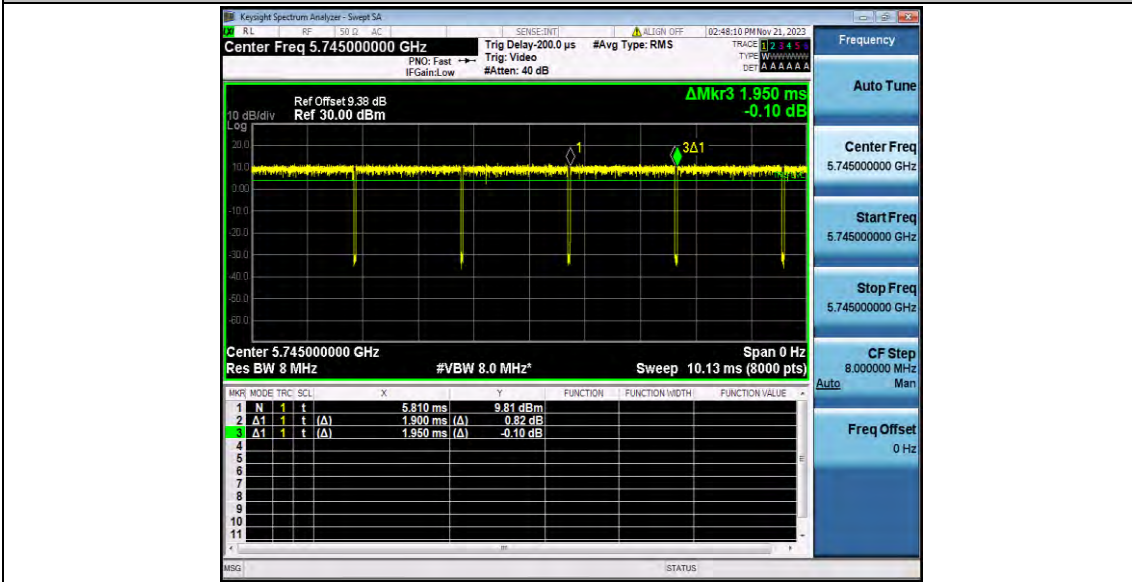
11A_Ant1_5745



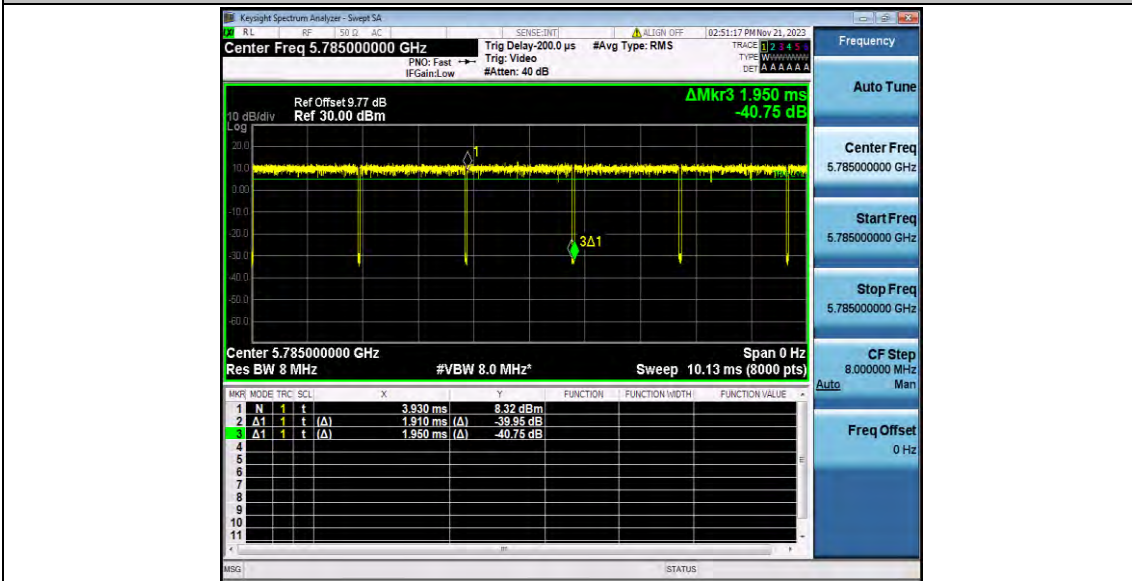
11A_Ant1_5785



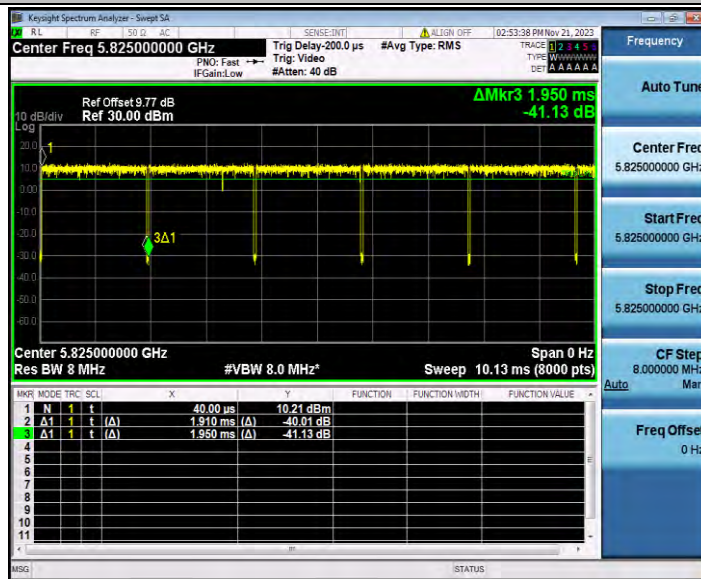
11A_Ant1_5825



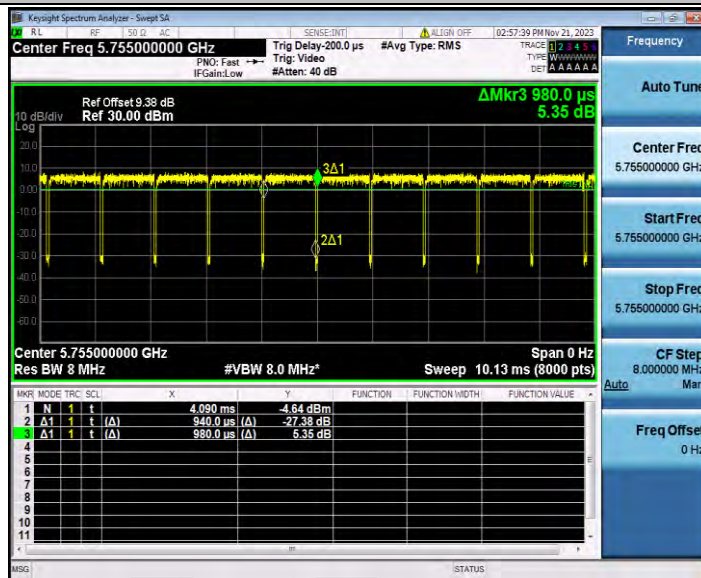
11N20SISO_Ant1_5745



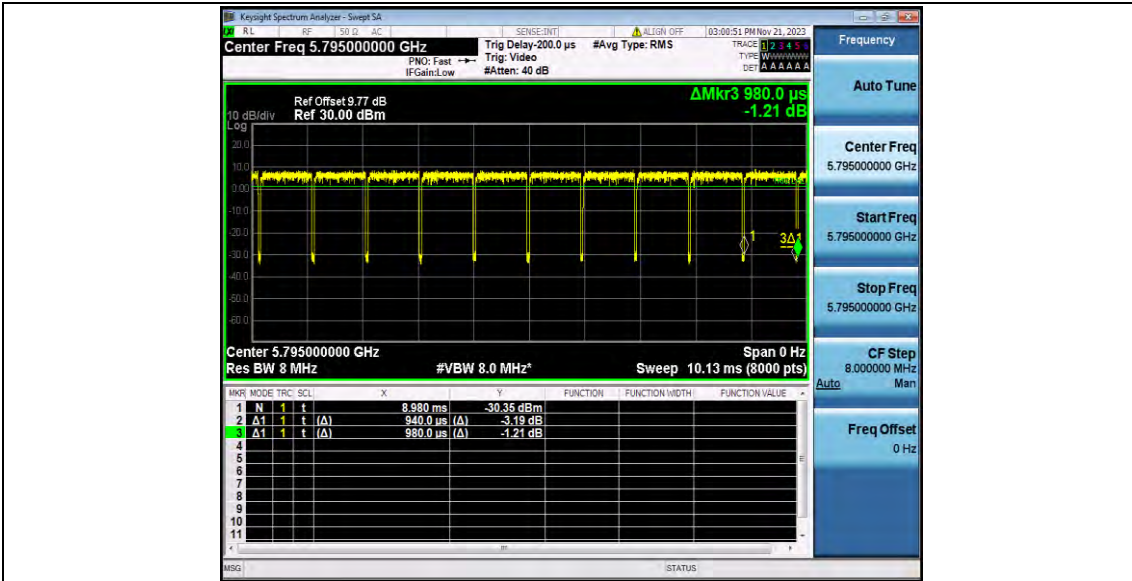
11N20SISO_Ant1_5785



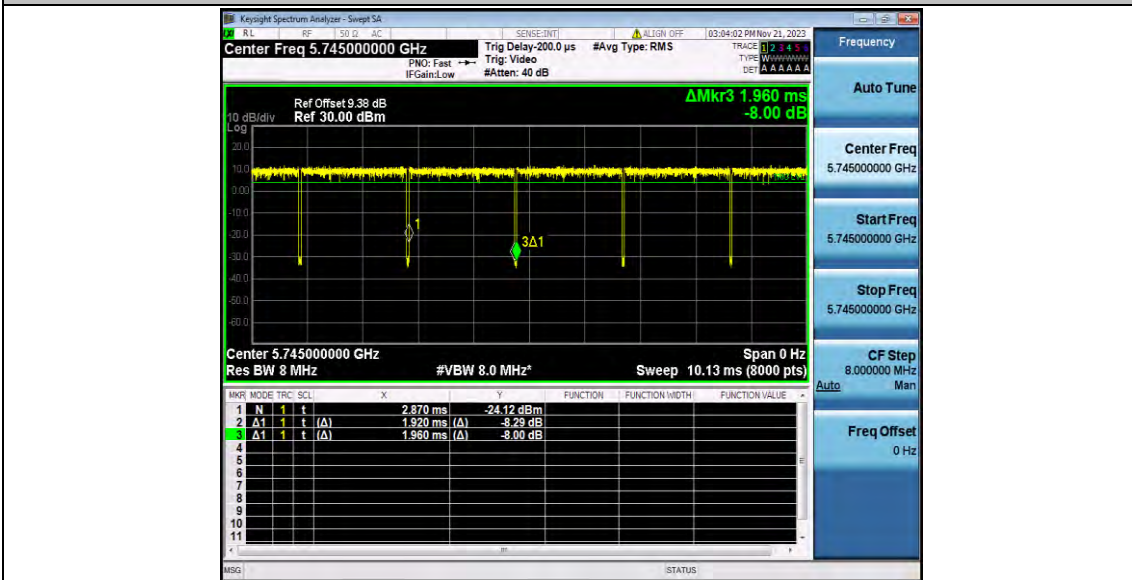
11N20SISO_Ant1_5825



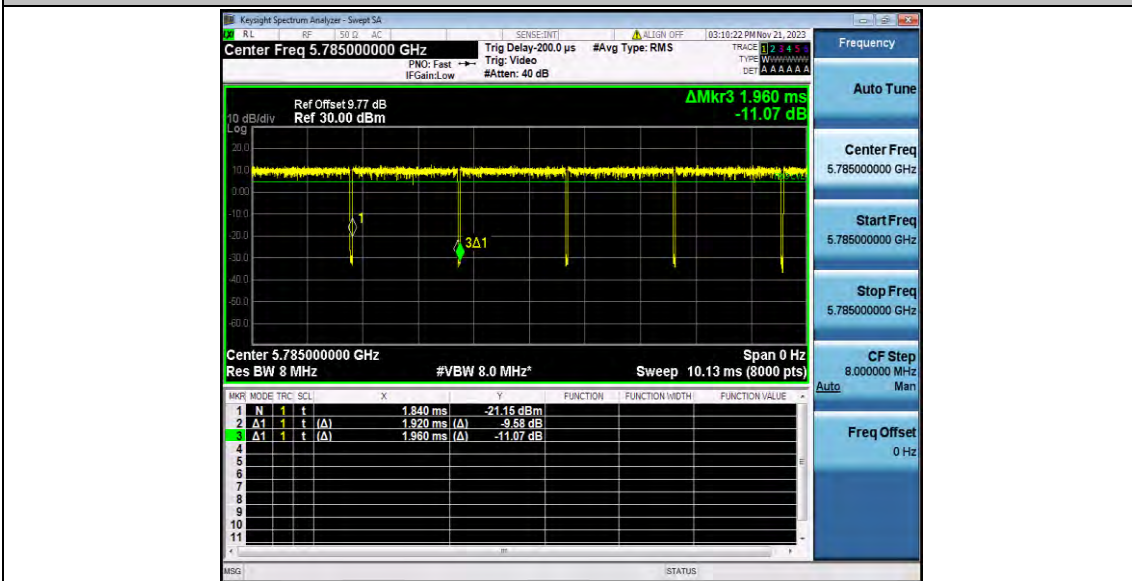
11N40SISO_Ant1_5755



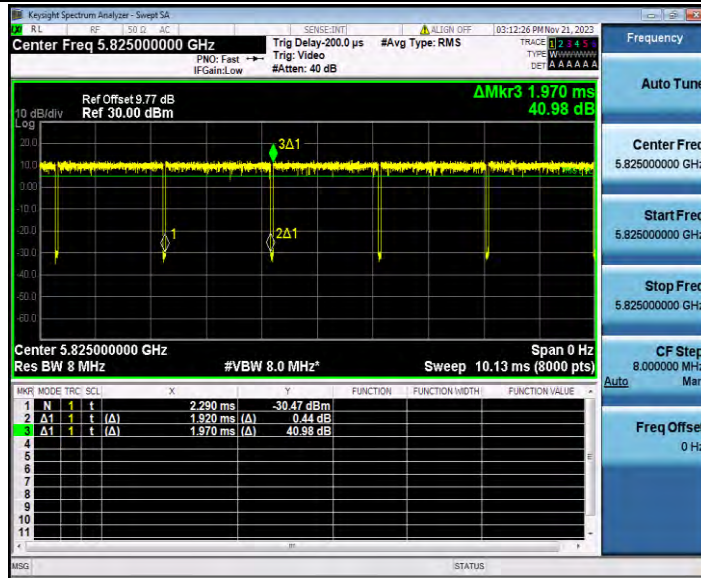
11N40SISO_Ant1_5795



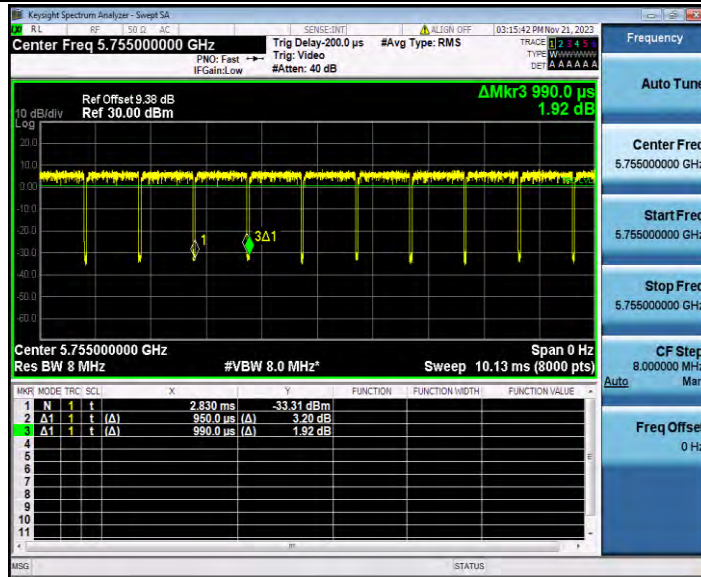
11AC20SISO_Ant1_5745



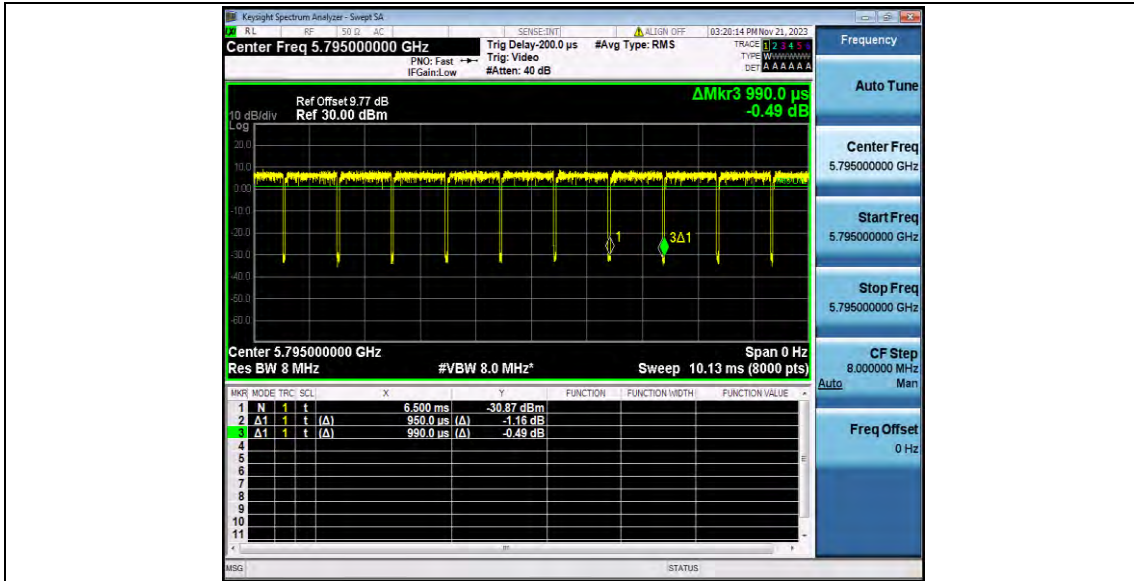
11AC20SISO_Ant1_5785



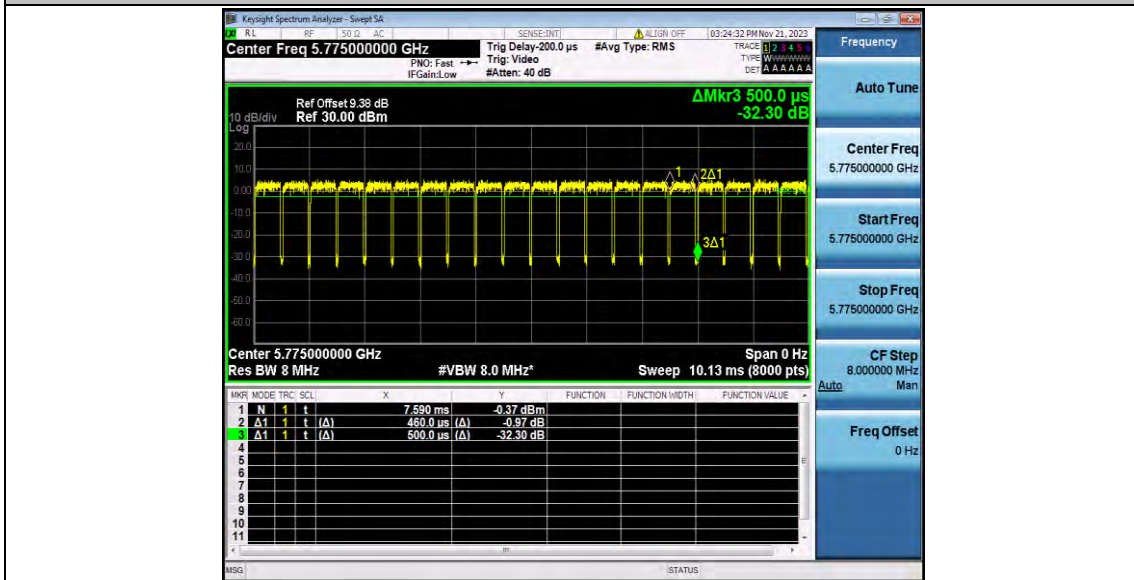
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

Appendix E.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	5745	12.05	98.09	0.08	12.13	≤30.00	PASS
		5785	12.95	98.09	0.08	13.03	≤30.00	PASS
		5825	12.83	97.61	0.11	12.94	≤30.00	PASS
11N20SISO	Ant1	5745	11.96	97.44	0.11	12.07	≤30.00	PASS
		5785	12.68	97.95	0.09	12.77	≤30.00	PASS
		5825	12.66	97.95	0.09	12.75	≤30.00	PASS
11N40SISO	Ant1	5755	11.77	95.92	0.18	11.95	≤30.00	PASS
		5795	12.51	95.92	0.18	12.69	≤30.00	PASS
11AC20SIS O	Ant1	5745	11.86	97.96	0.09	11.95	≤30.00	PASS
		5785	12.39	97.96	0.09	12.48	≤30.00	PASS
		5825	12.68	97.46	0.11	12.79	≤30.00	PASS
11AC40SIS O	Ant1	5755	11.79	95.96	0.18	11.97	≤30.00	PASS
		5795	12.52	95.96	0.18	12.70	≤30.00	PASS
11AC80SIS O	Ant1	5775	11.74	92.00	0.36	12.10	≤30.00	PASS

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

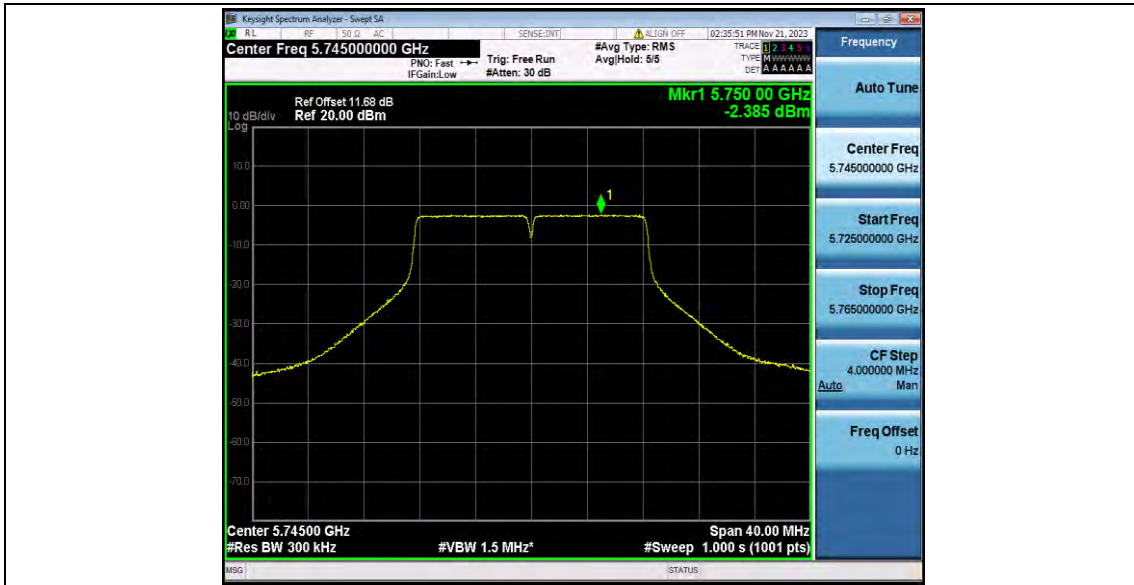
Appendix E.5: Maximum power spectral density

Test Result

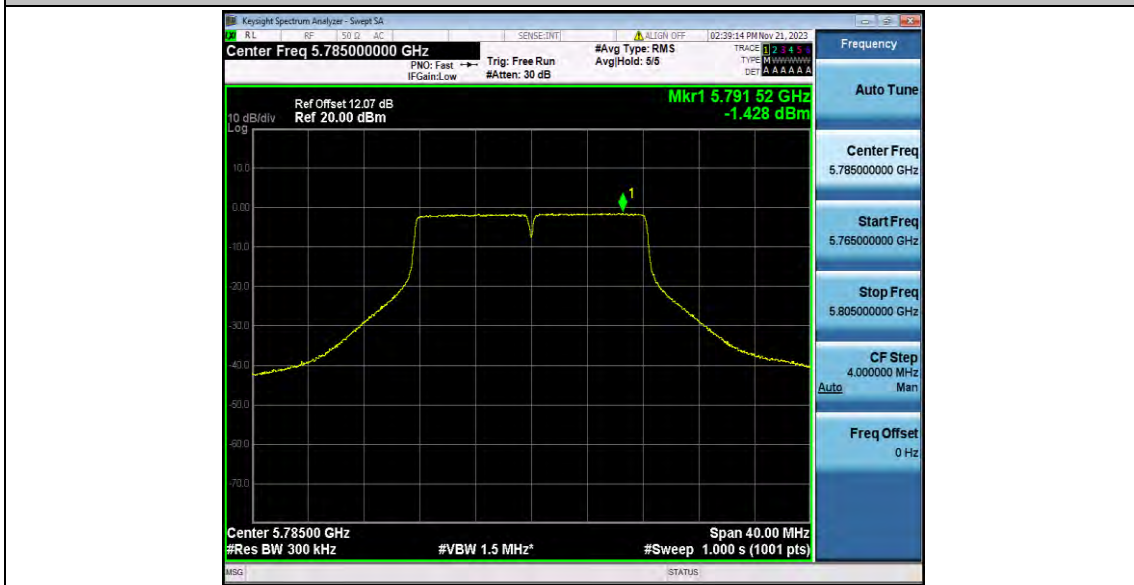
Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-2.39	≤30.00	PASS
		5785	-1.43	≤30.00	PASS
		5825	-1.57	≤30.00	PASS
11N20SISO	Ant1	5745	-1.93	≤30.00	PASS
		5785	-1.21	≤30.00	PASS
		5825	-1.11	≤30.00	PASS
11N40SISO	Ant1	5755	-5.57	≤30.00	PASS
		5795	-4.31	≤30.00	PASS
11AC20SISO	Ant1	5745	-1.96	≤30.00	PASS
		5785	-1.2	≤30.00	PASS
		5825	-1.1	≤30.00	PASS
11AC40SISO	Ant1	5755	-5.04	≤30.00	PASS
		5795	-4.15	≤30.00	PASS
11AC80SISO	Ant1	5775	-7.59	≤30.00	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_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



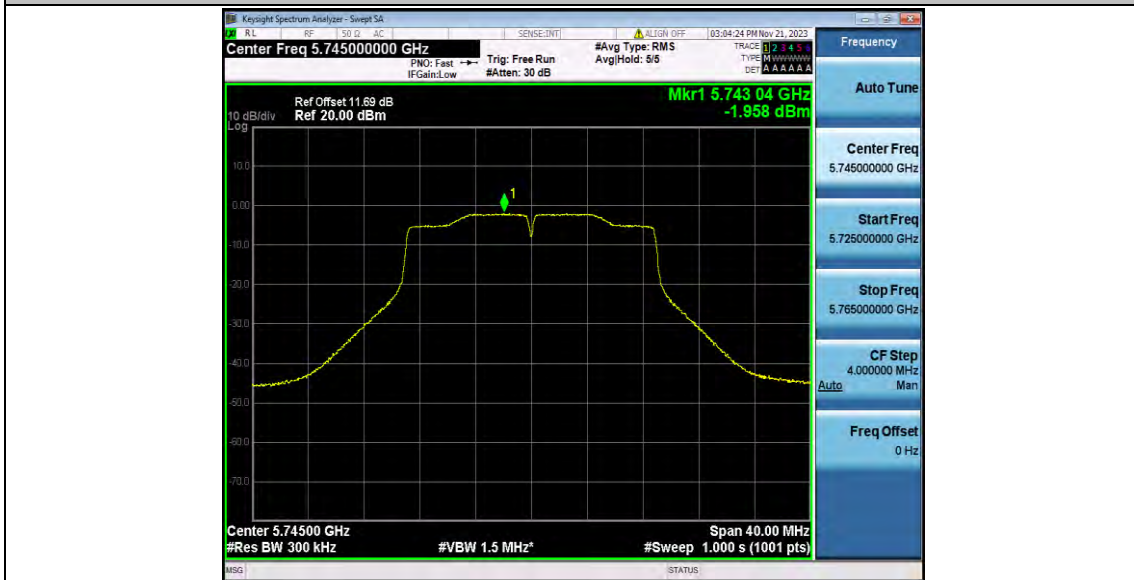
11N20SISO_Ant1_5825



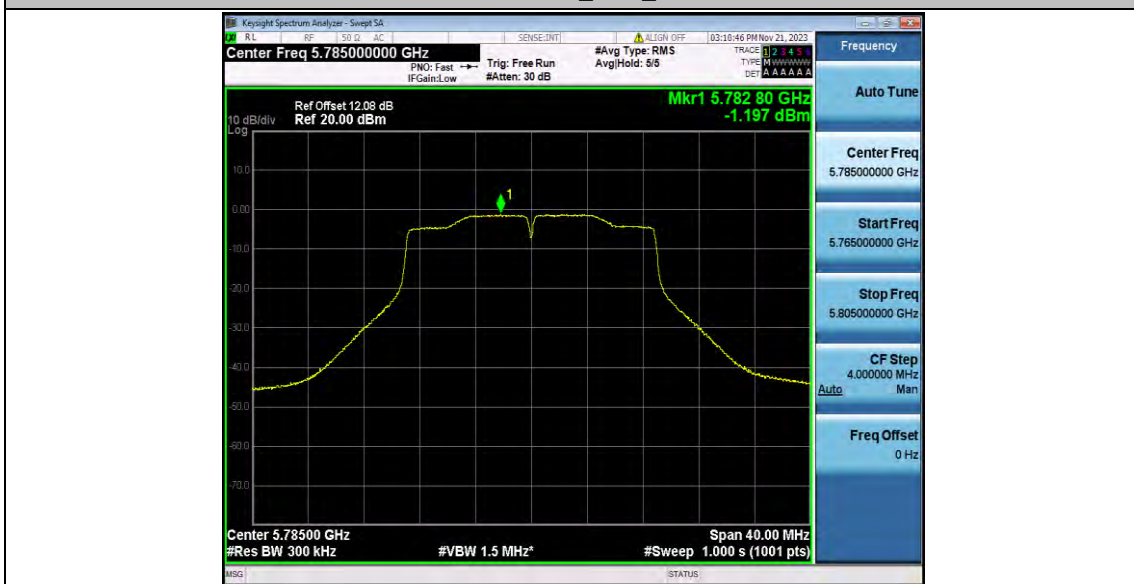
11N40SISO_Ant1_5755



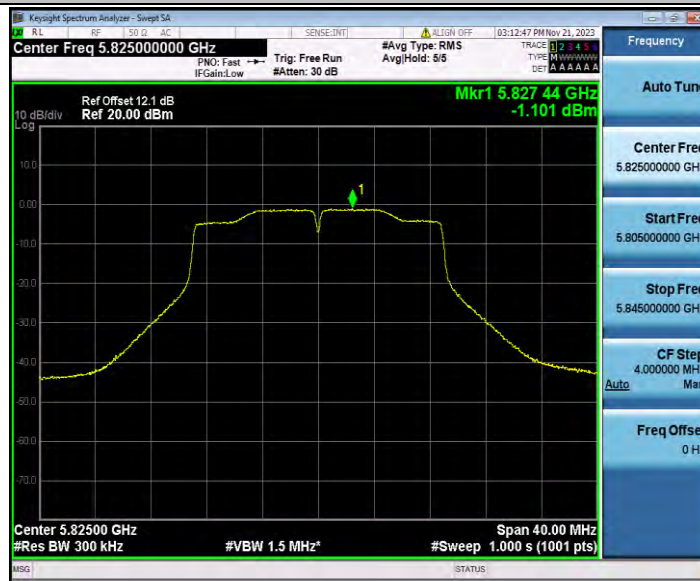
11N40SISO_Ant1_5795



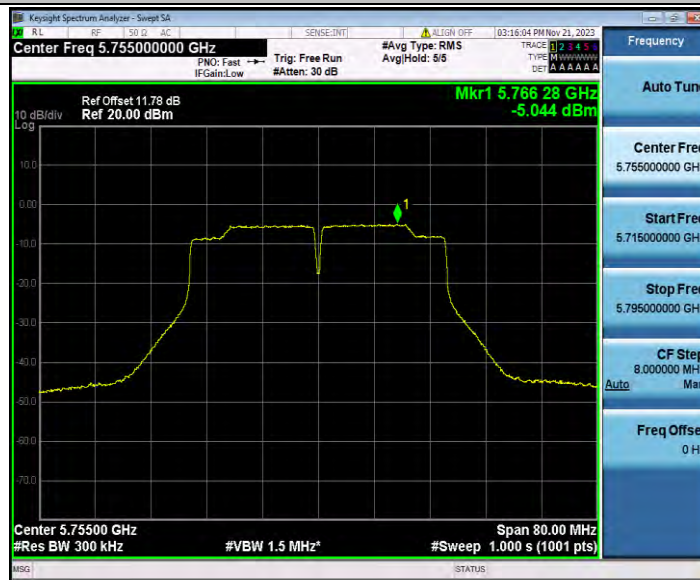
11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Frequency[M Hz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-37.97	≤-15.30	PASS
				5700~5720	-33.7	≤15.30	PASS
				5720~5725	-26.88	≤25.78	PASS
				5760~5650	-39.96	≤-27	PASS
		High	5825	5850~5855	-31.31	≤18.26	PASS
				5855~5875	-31.53	≤10.17	PASS
				5875~5925	-37.86	≤-24.66	PASS
5925~5935	-39.02	≤-27	PASS				
11N20SIS O	Ant1	Low	5745	5650~5700	-38.41	≤-14.79	PASS
				5700~5720	-34.08	≤14.37	PASS
				5720~5725	-32.87	≤24.21	PASS
				5760~5650	-40.13	≤-27	PASS
		High	5825	5850~5855	-32.36	≤19.49	PASS
				5855~5875	-33.44	≤10.63	PASS
				5875~5925	-38.46	≤-12.47	PASS
5925~5935	-38.55	≤-27	PASS				
11N40SIS O	Ant1	Low	5755	5650~5700	-36.02	≤7.96	PASS
				5700~5720	-29.73	≤15.20	PASS
				5720~5725	-29	≤25.59	PASS
				5780~5650	-39.41	≤-27	PASS
		High	5795	5850~5855	-33.9	≤21.68	PASS
				5855~5875	-34.3	≤11.24	PASS
				5875~5925	-37.13	≤-22.77	PASS
5925~5935	-39.02	≤-27	PASS				
11AC20SI SO	Ant1	Low	5745	5650~5700	-38.6	≤6.91	PASS
				5700~5720	-33.22	≤13.31	PASS
				5720~5725	-31.4	≤21.32	PASS
				5760~5650	-40.33	≤-27	PASS
		High	5825	5850~5855	-32.5	≤22.87	PASS
				5855~5875	-32.91	≤10.59	PASS
				5875~5925	-37.13	≤-25.76	PASS
5925~5935	-38.4	≤-27	PASS				
11AC40SI SO	Ant1	Low	5755	5650~5700	-35.79	≤9.46	PASS
				5700~5720	-30.7	≤15.35	PASS
				5720~5725	-28.67	≤20.35	PASS

				5780~5650	-39.61	≤ -27	PASS
		High	5795	5850~5855	-33.74	≤ 19.80	PASS
				5855~5875	-34.38	≤ 11.10	PASS
				5875~5925	-35.94	≤ -24.48	PASS
				5925~5935	-38.14	≤ -27	PASS
11AC80SI SO	Ant1	Low	5775	5650~5700	-36.05	≤ 6.23	PASS
				5700~5720	-33.73	≤ 14.09	PASS
				5720~5725	-33.41	≤ 18.83	PASS
				5800~5650	-39.5	≤ -27	PASS
		High	5775	5850~5855	-32.51	≤ 17.90	PASS
				5855~5875	-33.22	≤ 10.44	PASS
				5875~5925	-34.84	≤ -21.62	PASS
				5925~5935	-37.72	≤ -27	PASS

Test Graphs B4



11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



11AC80SISO_Ant1_Low_5775



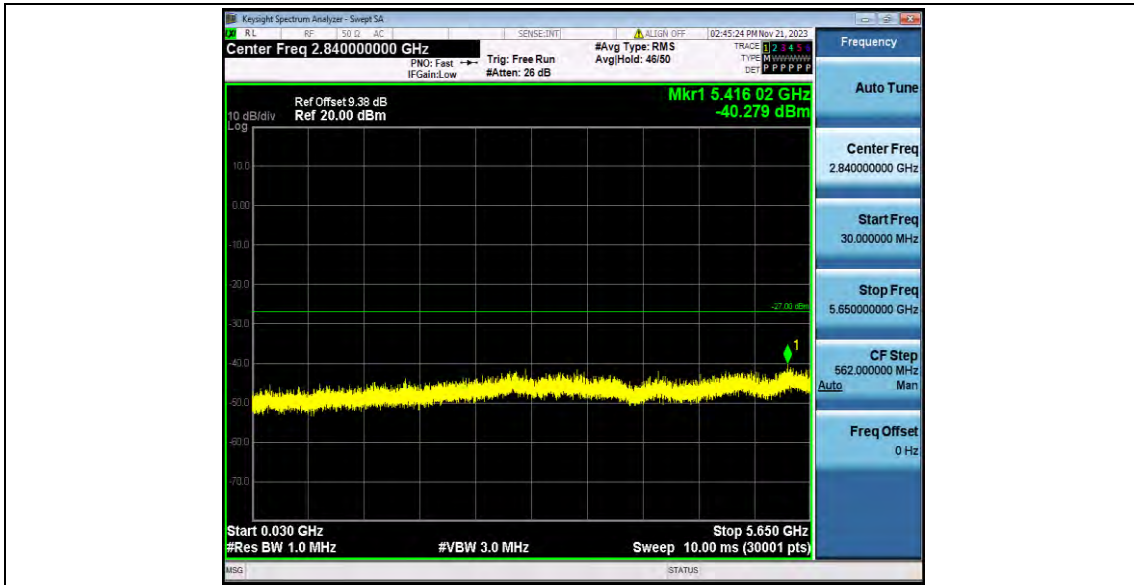
11AC80SISO_Ant1_High_5775

Appendix E.7: Conducted Spurious Emission

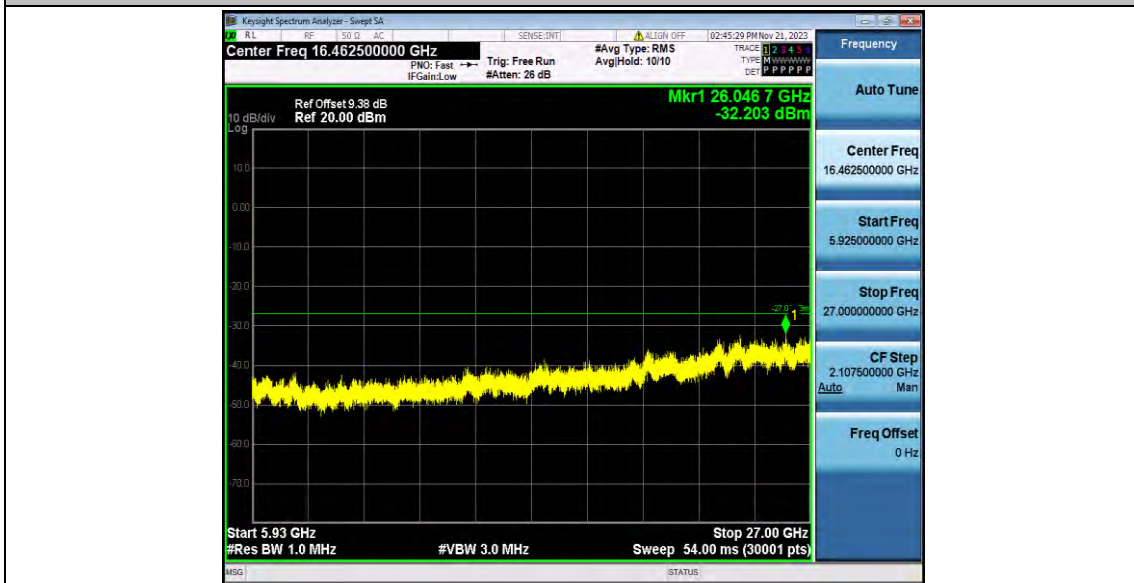
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5416.02	-40.28	≤-27	PASS
			5925~40000	26046.71	-32.2	≤-27	PASS
		5785	30~5650	5476.53	-40.74	≤-27	PASS
			5925~40000	26805.41	-31.52	≤-27	PASS
		5825	30~5650	5422.2	-40.75	≤-27	PASS
			5925~40000	24211.08	-31.67	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5491.14	-40.87	≤-27	PASS
			5925~40000	25142.59	-32.06	≤-27	PASS
		5785	30~5650	5473.53	-40.73	≤-27	PASS
			5925~40000	26702.14	-31.6	≤-27	PASS
		5825	30~5650	5445.24	-39.93	≤-27	PASS
			5925~40000	24226.53	-31.48	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5474.47	-40.31	≤-27	PASS
			5925~40000	25110.28	-32.01	≤-27	PASS
		5795	30~5650	5383.61	-39.92	≤-27	PASS
			5925~40000	25632.94	-32.3	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5514	-40.3	≤-27	PASS
			5925~40000	24297.48	-32.34	≤-27	PASS
		5785	30~5650	5484.77	-40.37	≤-27	PASS
			5925~40000	23563.37	-31.98	≤-27	PASS
		5825	30~5650	5501.82	-39.53	≤-27	PASS
			5925~40000	24338.93	-32.17	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5373.87	-40.31	≤-27	PASS
			5925~40000	26504.04	-32.71	≤-27	PASS
		5795	30~5650	4952.56	-40.14	≤-27	PASS
			5925~40000	26697.93	-32.19	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5460.42	-40.75	≤-27	PASS
			5925~40000	26529.33	-32.05	≤-27	PASS

Test Graphs



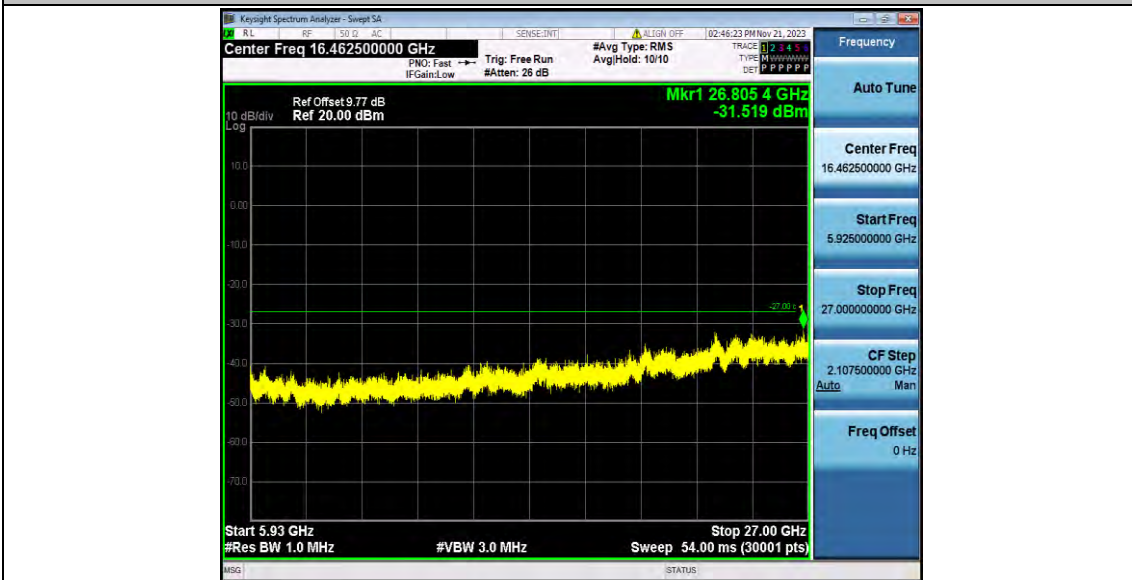
11A_Ant1_5745_30~5650



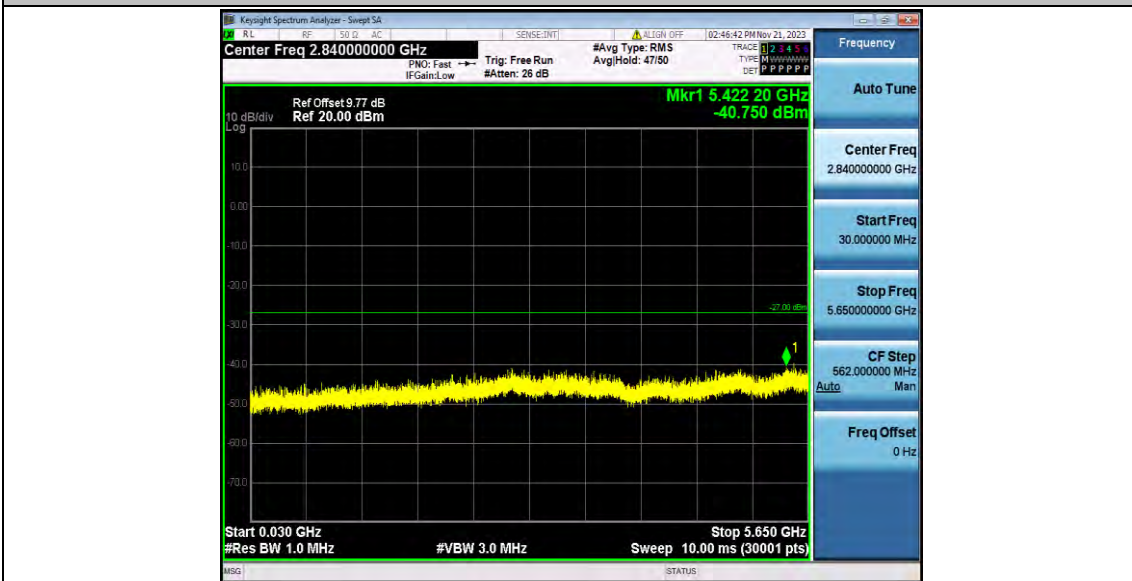
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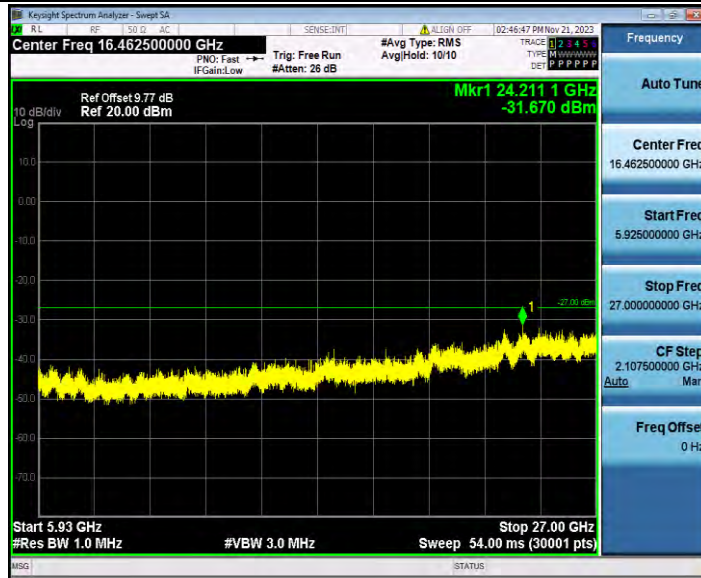
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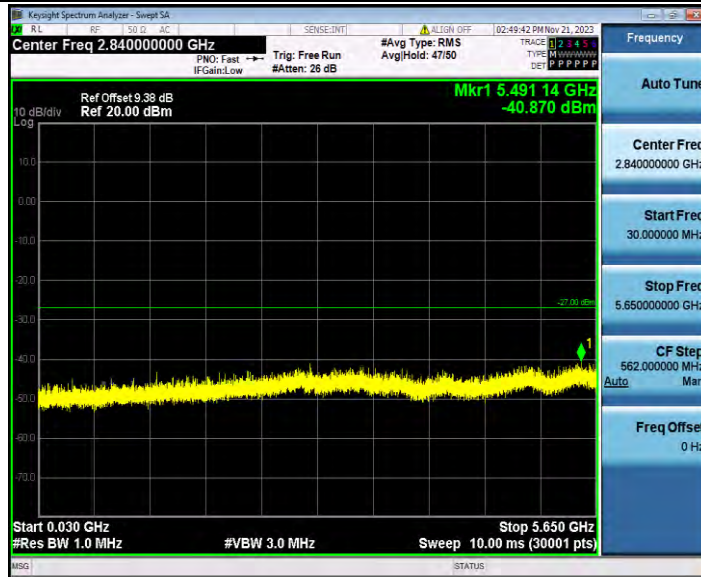
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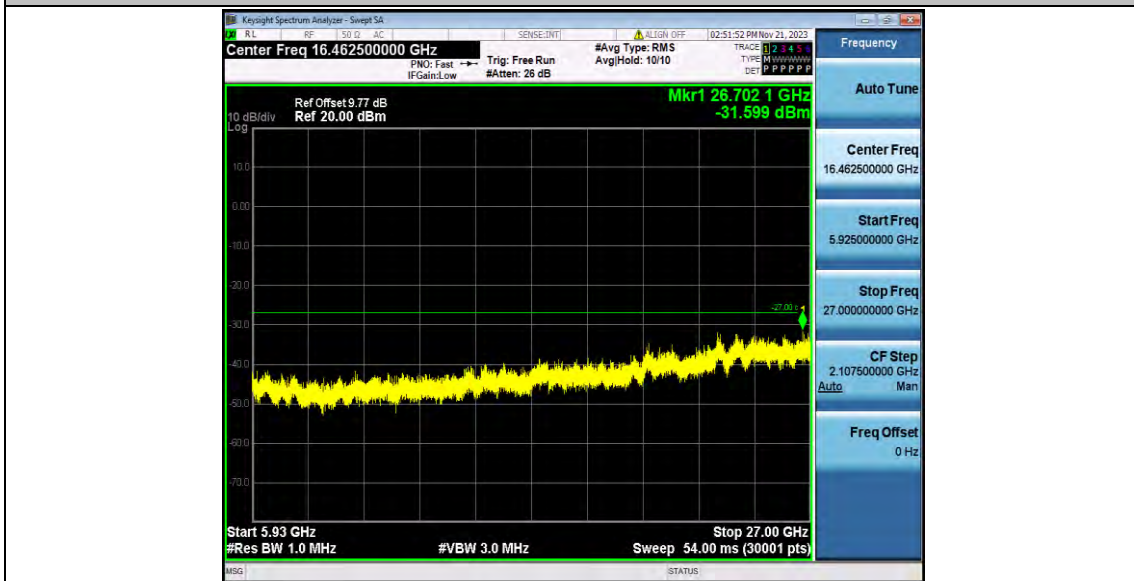
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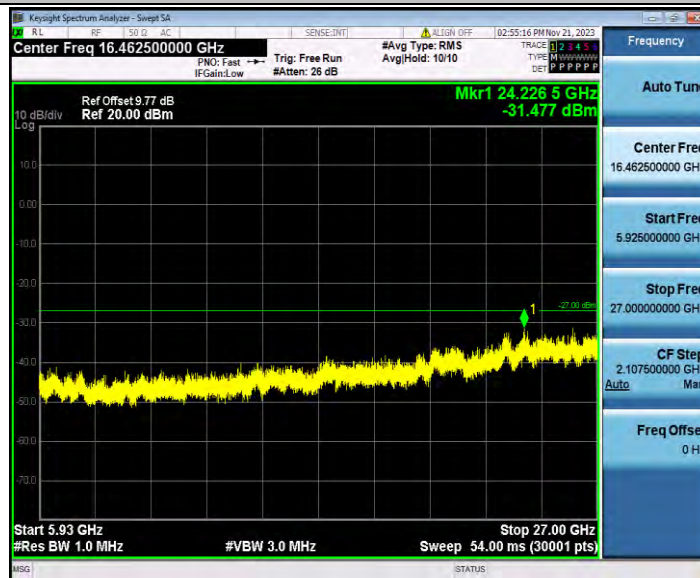
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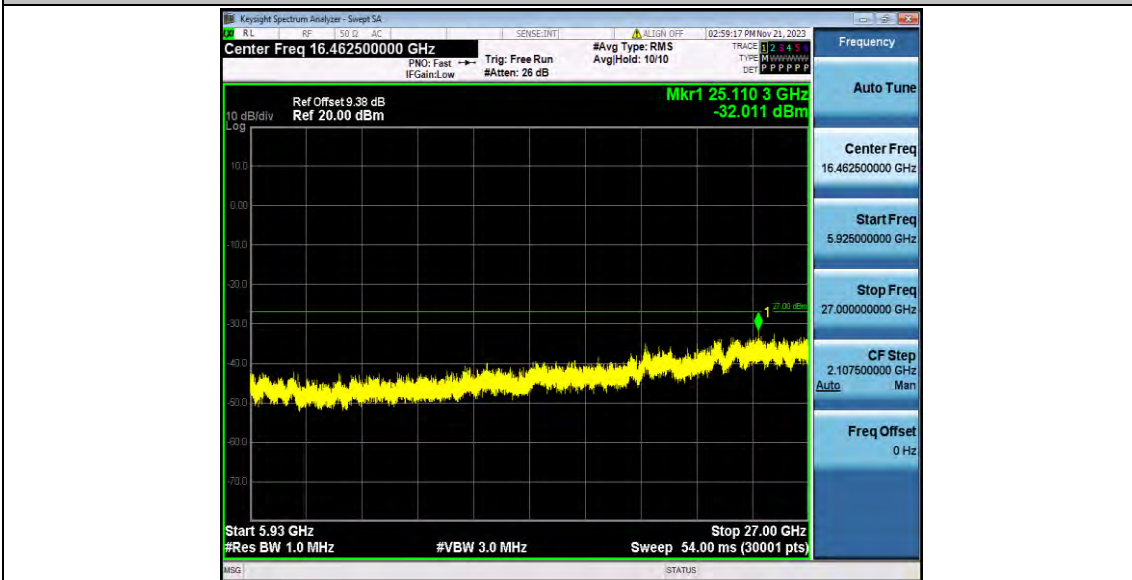
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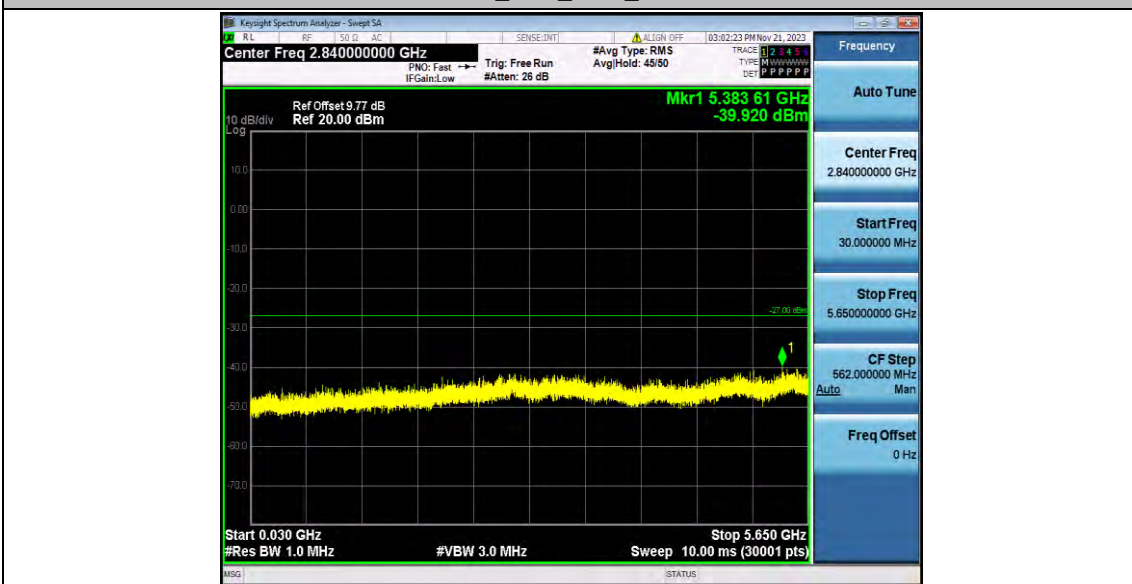
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11N40SISO_Ant1_5755_5925~40000



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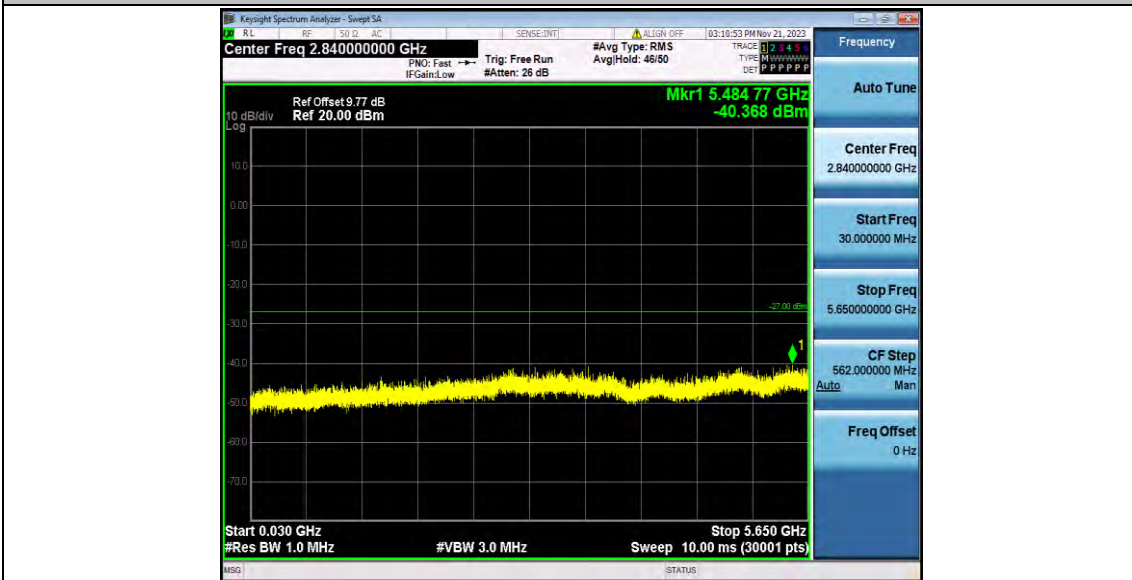
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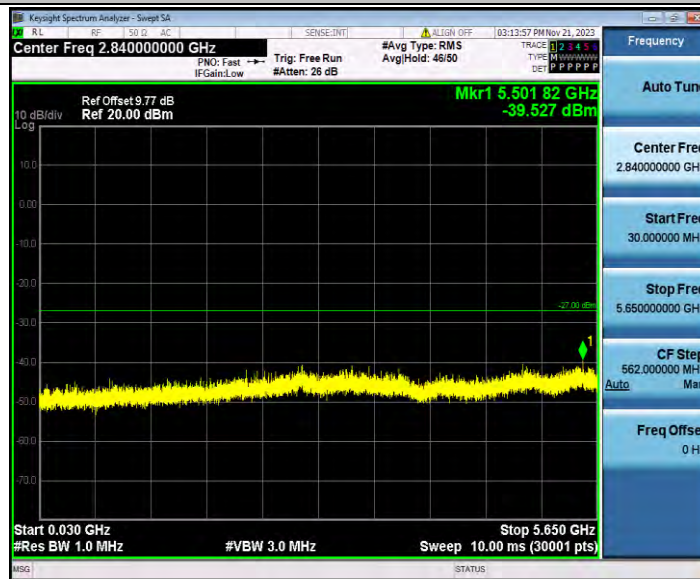
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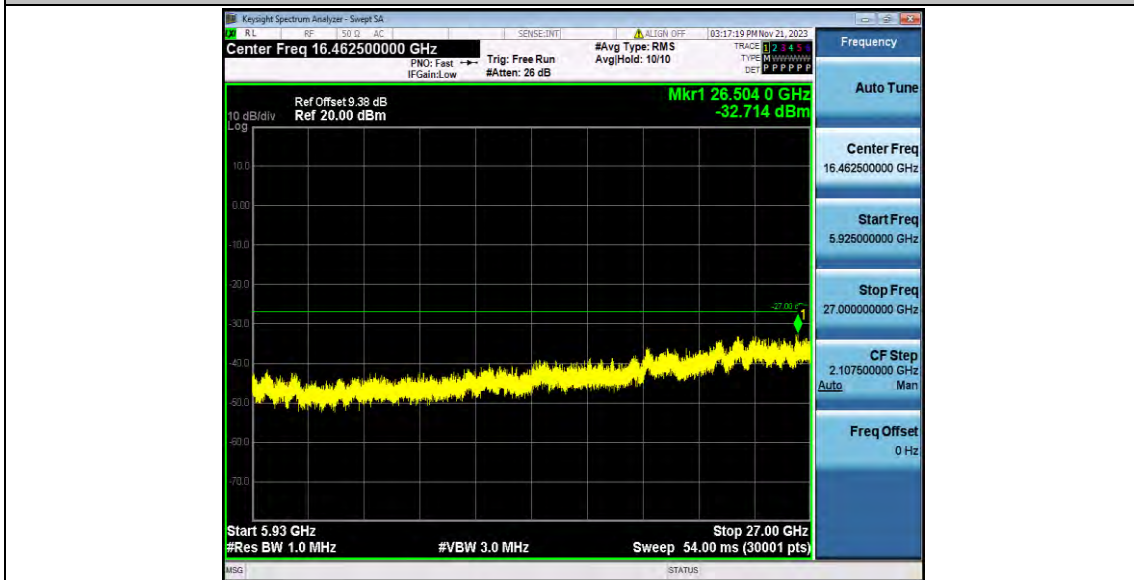
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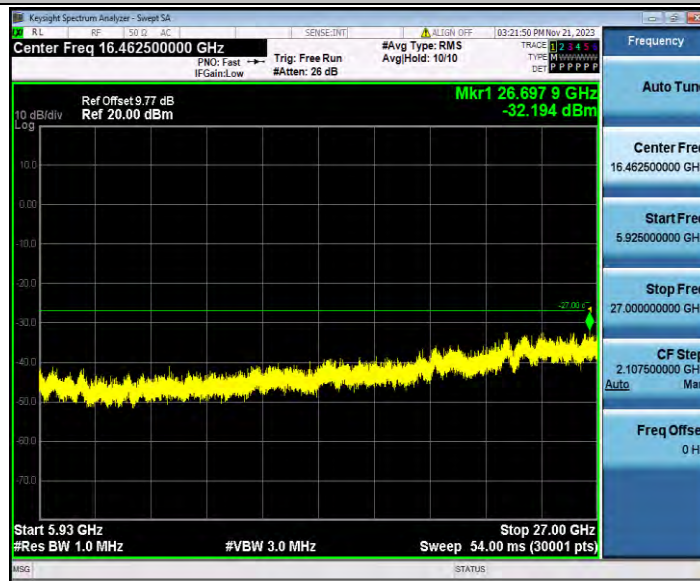
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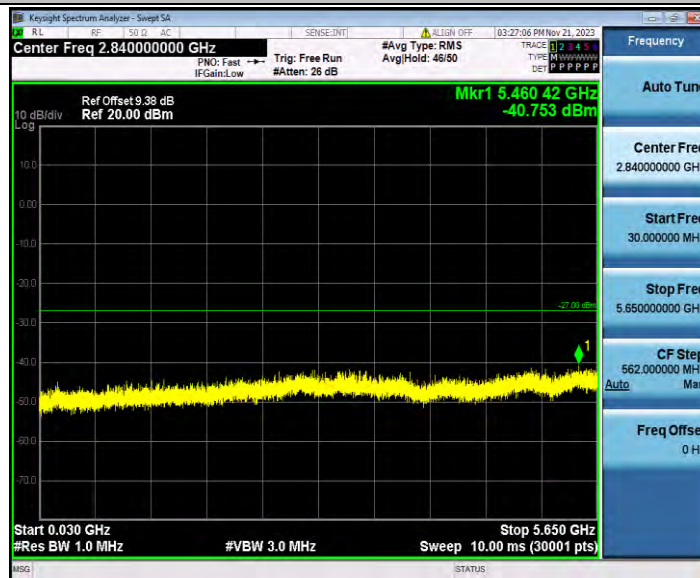
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11AC40SISO_Ant1_5795_30~5650



11AC40SISO_Ant1_5795_5925~40000



11AC80SISO_Ant1_5775_30~5650

