

Case No. : <u>GTS20231017004-1-24</u>
Ambient Condition: <u>23</u> °C, <u>49</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	Ant2	5745	16.945	5736.573	5753.518	---	---
		5785	17.000	5776.485	5793.485	---	---
		5825	17.182	5816.394	5833.576	---	---
11N20SISO	Ant2	5745	17.992	5736.029	5754.021	---	---
		5785	18.025	5776.014	5794.039	---	---
		5825	18.163	5815.881	5834.044	---	---
11N40SISO	Ant2	5755	36.218	5736.870	5773.088	---	---
		5795	36.386	5776.782	5813.168	---	---
11AC20SISO	Ant2	5745	18.019	5736.022	5754.041	---	---
		5785	18.071	5775.968	5794.039	---	---
		5825	18.129	5815.893	5834.022	---	---
11AC40SISO	Ant2	5755	36.156	5736.939	5773.095	---	---
		5795	36.349	5776.795	5813.144	---	---
11AC80SISO	Ant2	5775	74.955	5737.481	5812.436	---	---

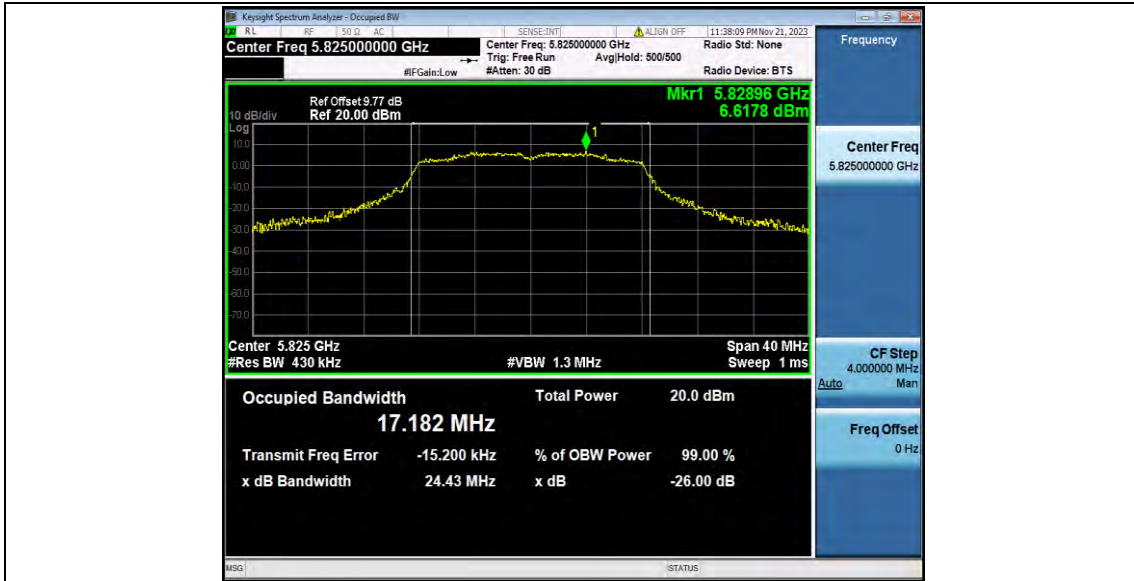
Test Graphs



11A_Ant2_5745



11A_Ant2_5785



11A_Ant2_5825



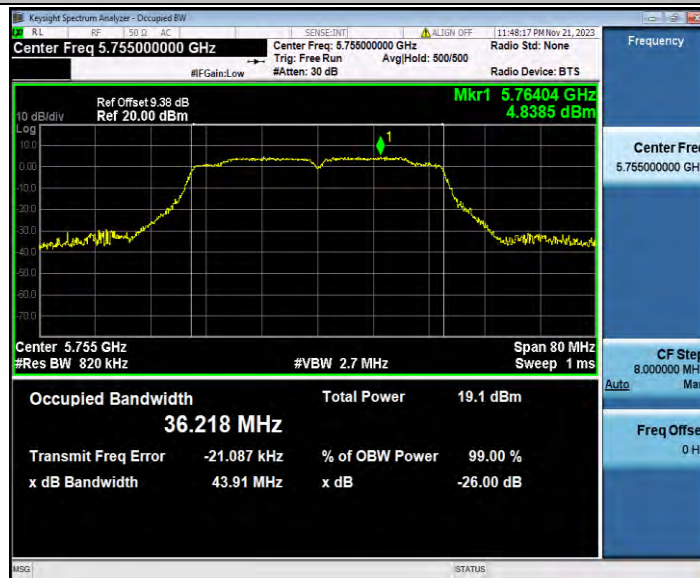
11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



11N40SISO_Ant2_5795



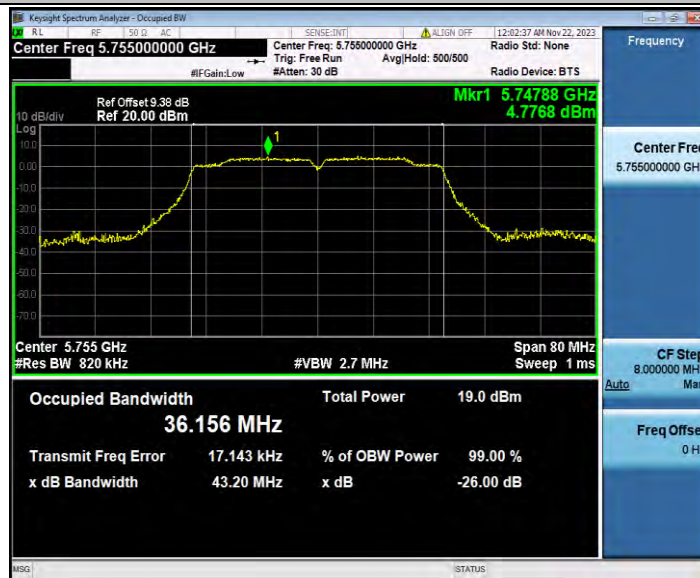
11AC20SISO_Ant2_5745



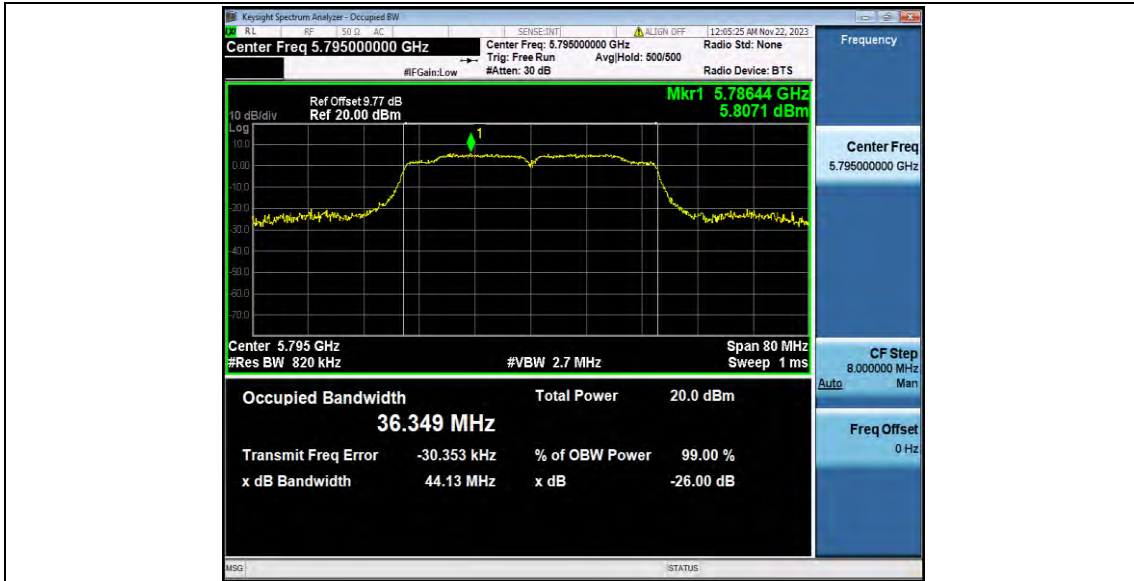
11AC20SISO_Ant2_5785



11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



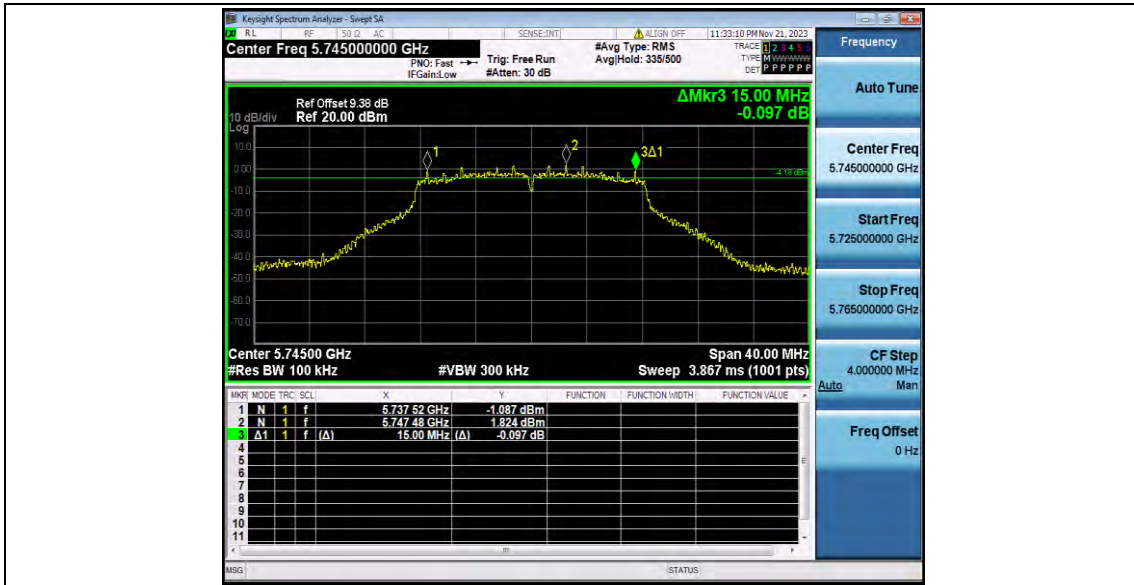
11AC80SISO_Ant2_5775

Appendix E.2: Min emission bandwidth

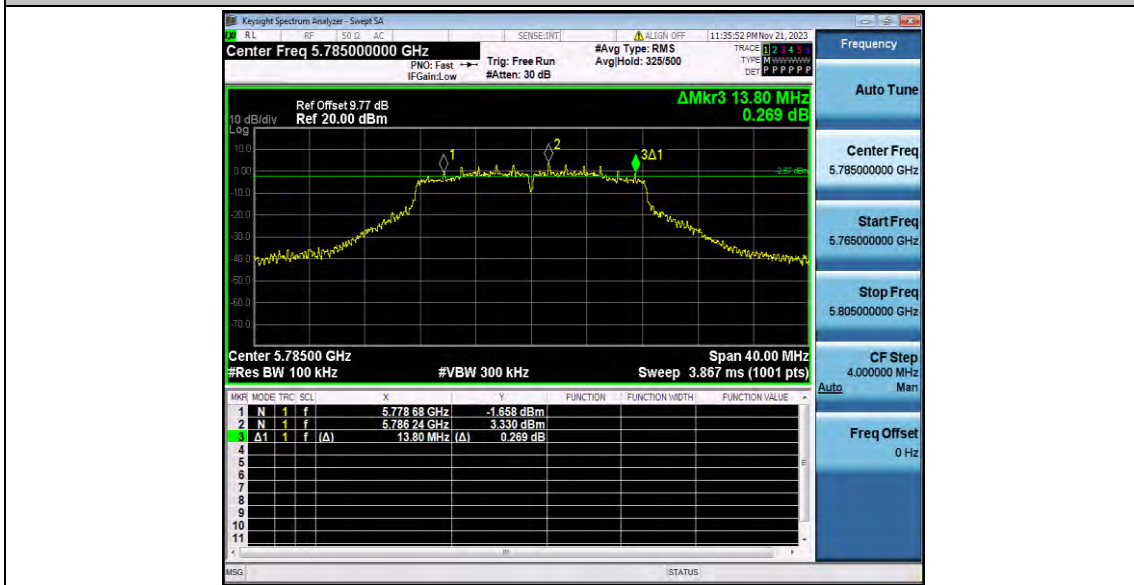
Test Result B4

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5745	15.000	5737.520	5752.520	0.5	PASS
		5785	13.800	5778.680	5792.480	0.5	PASS
		5825	15.080	5817.480	5832.560	0.5	PASS
11N20SISO	Ant2	5745	15.040	5737.480	5752.520	0.5	PASS
		5785	15.320	5777.440	5792.760	0.5	PASS
		5825	15.400	5817.080	5832.480	0.5	PASS
11N40SISO	Ant2	5755	33.840	5738.680	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant2	5745	16.080	5737.440	5753.520	0.5	PASS
		5785	15.000	5777.520	5792.520	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11AC40SISO	Ant2	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC80SISO	Ant2	5775	75.200	5737.400	5812.600	0.5	PASS

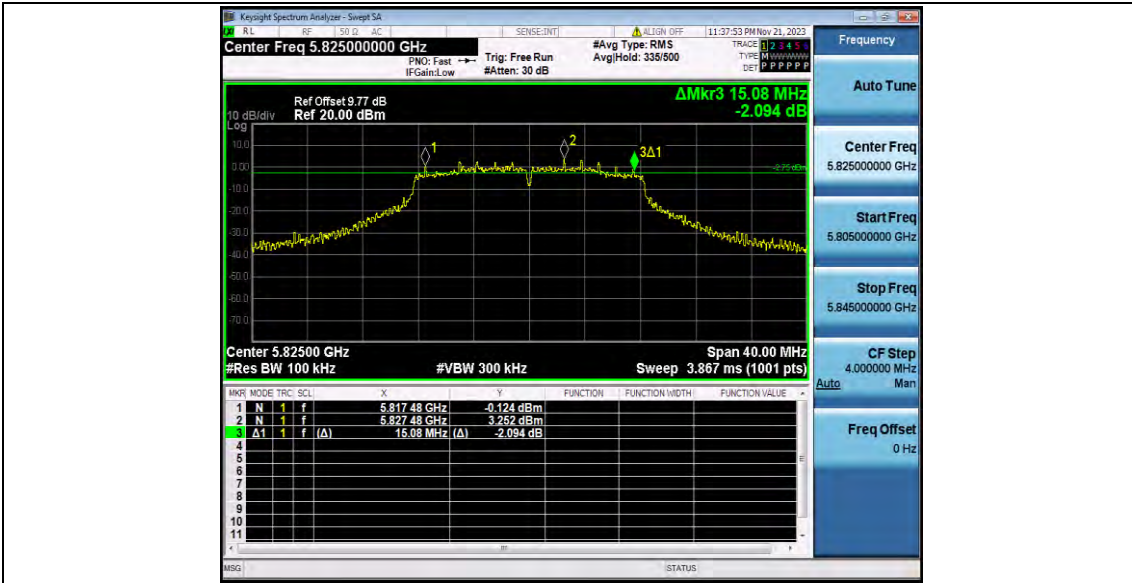
Test Graphs B4



11A_Ant2_5745



11A_Ant2_5785



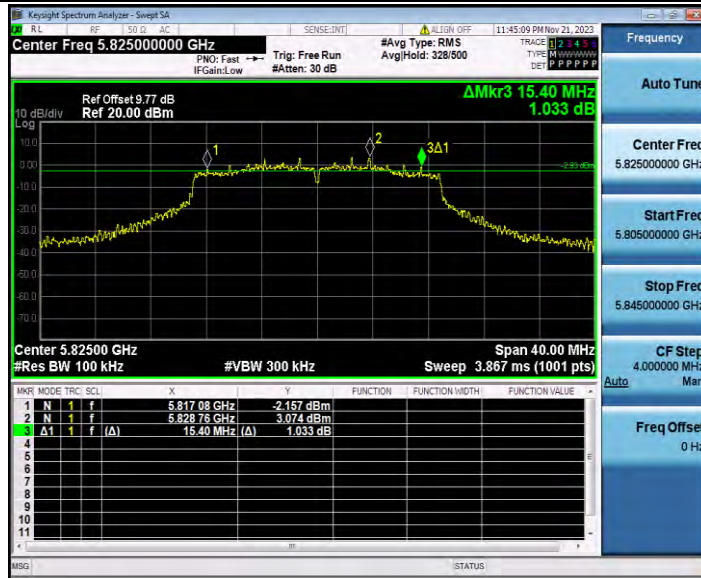
11A_Ant2_5825



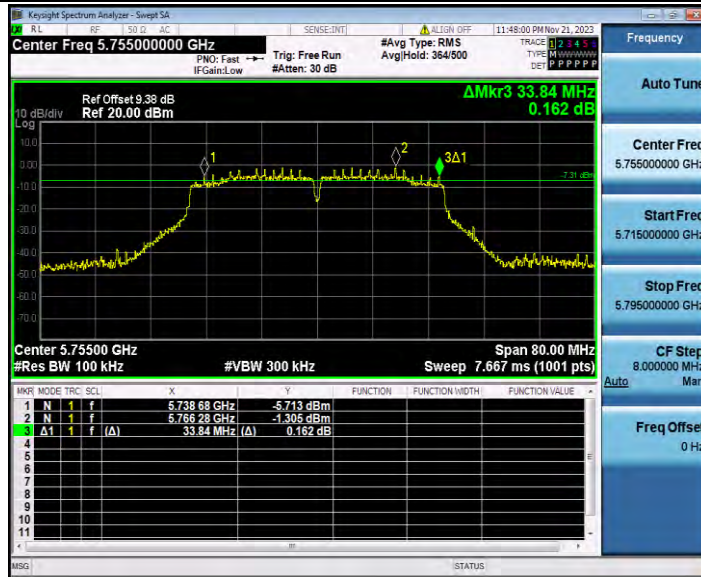
11N20SISO_Ant2_5745



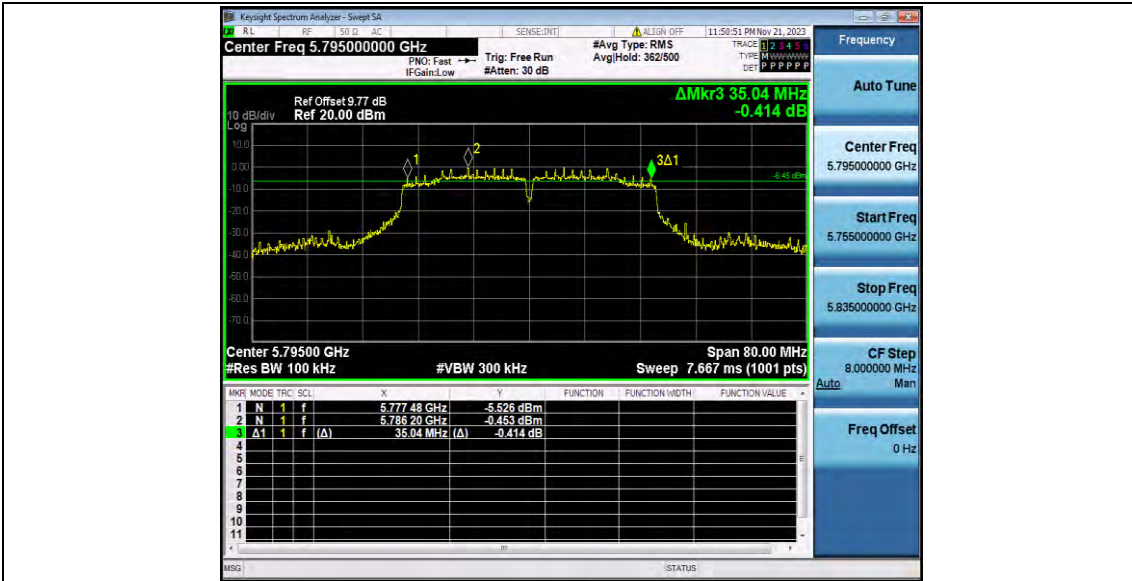
11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



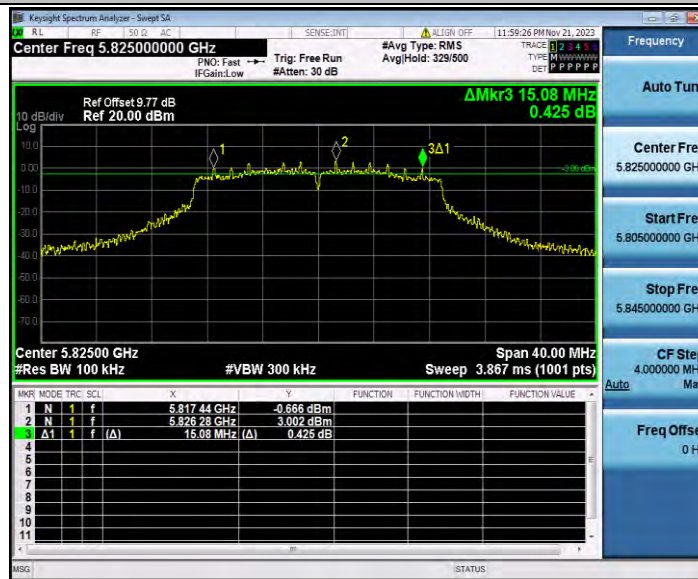
11N40SISO_Ant2_5795



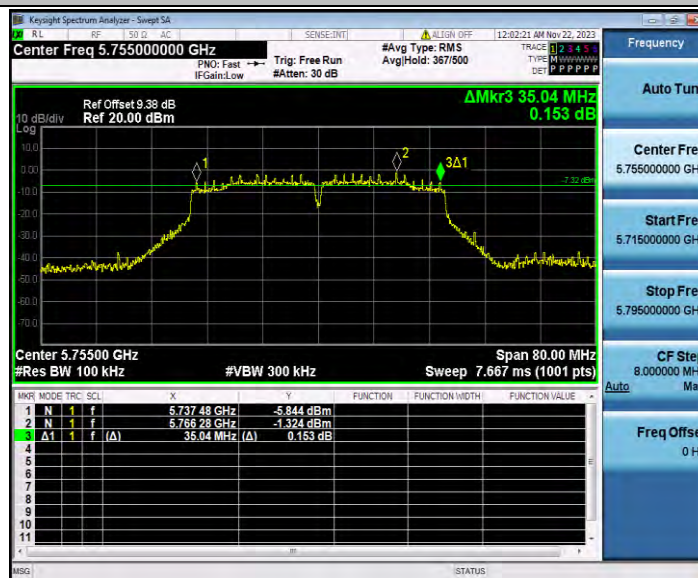
11A20SISO_Ant2_5745



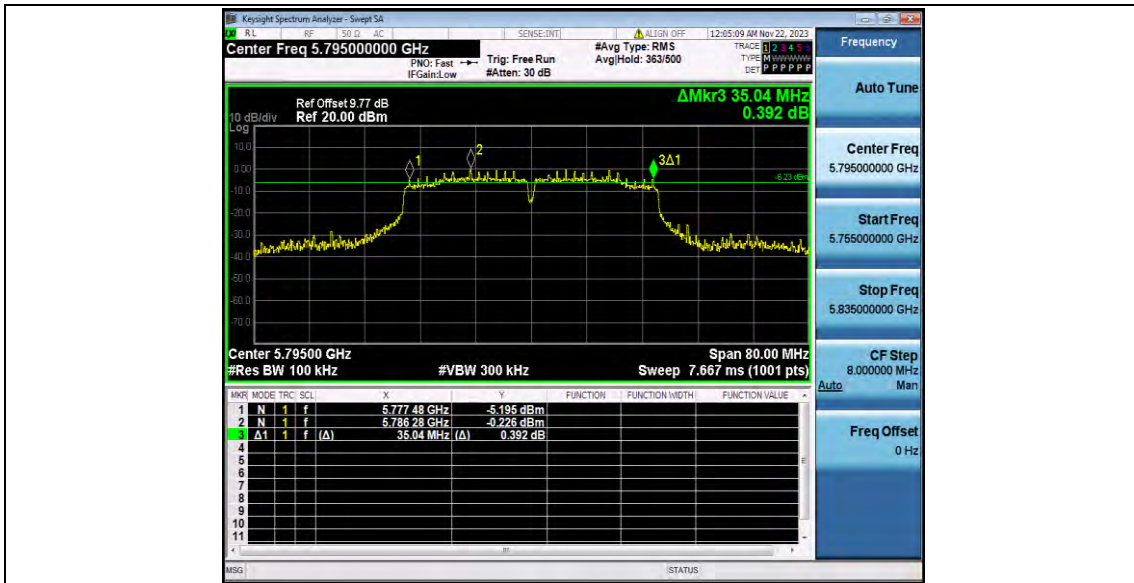
11AC20SISO_Ant2_5785



11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



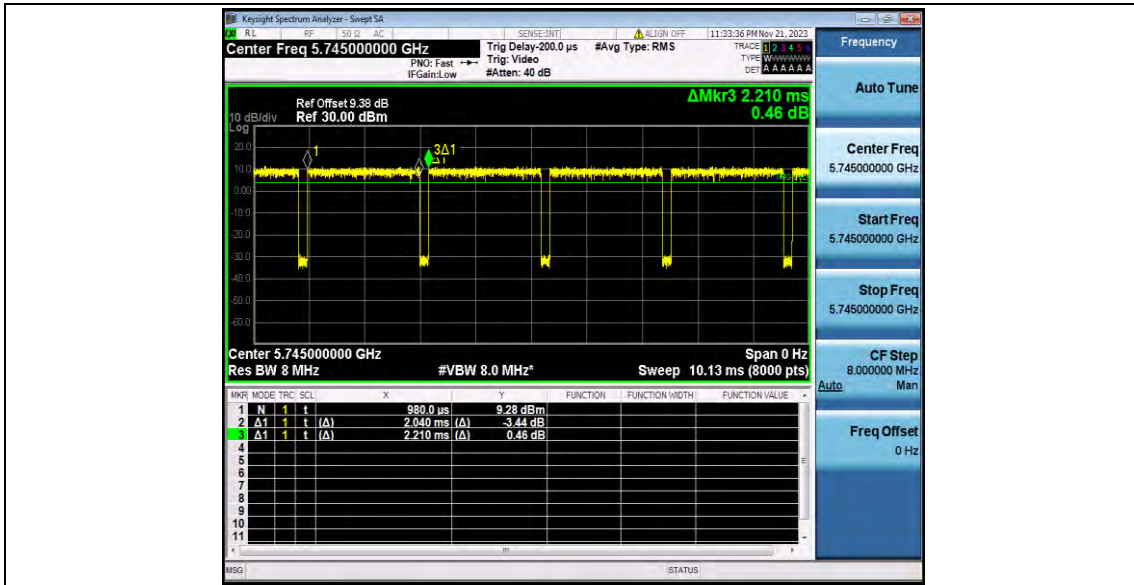
11AC80SISO_Ant2_5775

Appendix E.3: Duty Cycle

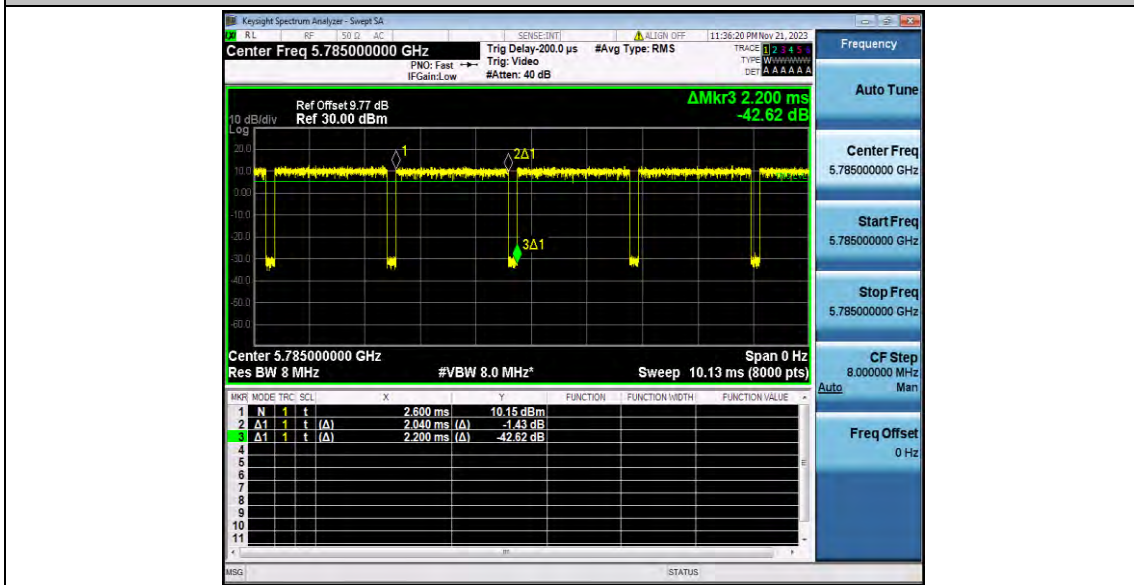
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5745	2.04	2.21	92.31
		5785	2.04	2.20	92.73
		5825	2.05	2.21	92.76
11N20SISO	Ant2	5745	1.90	2.05	92.68
		5785	1.91	2.06	92.72
		5825	1.91	2.06	92.72
11N40SISO	Ant2	5755	0.93	1.01	92.08
		5795	0.94	1.02	92.16
11AC20SISO	Ant2	5745	1.91	2.06	92.72
		5785	1.92	2.07	92.75
		5825	1.92	2.07	92.75
11AC40SISO	Ant2	5755	0.95	1.03	92.23
		5795	0.94	1.02	92.16
11AC80SISO	Ant2	5775	0.46	0.50	92.00

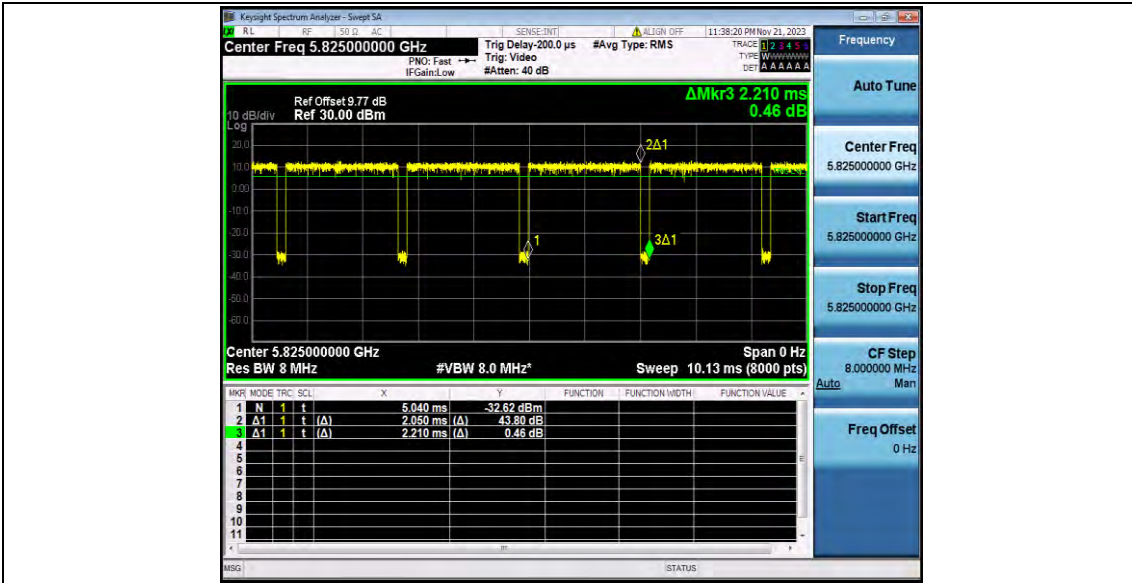
Test Graphs



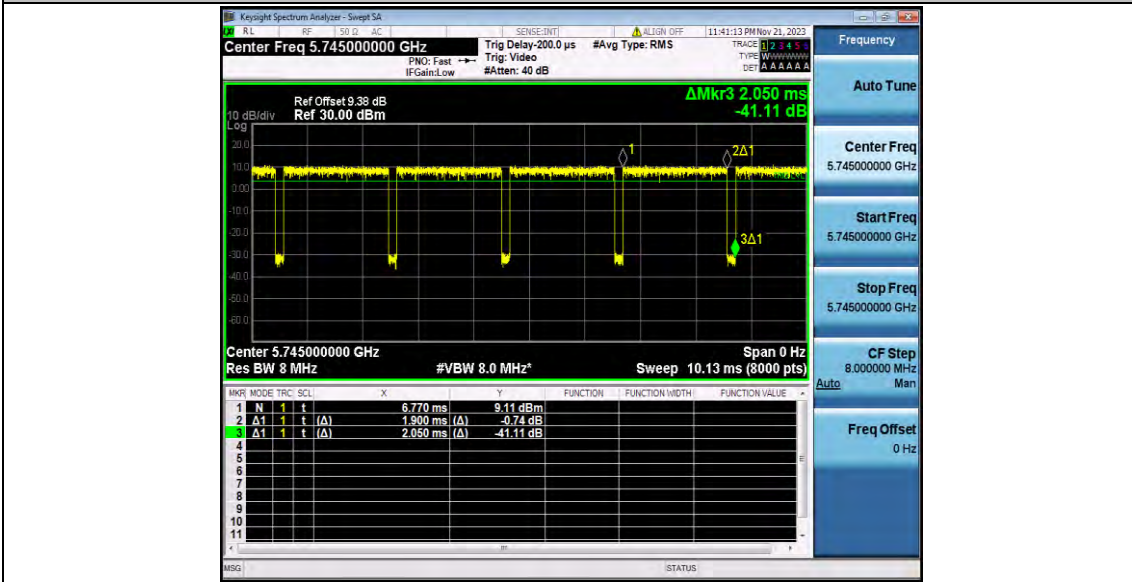
11A_Ant2_5745



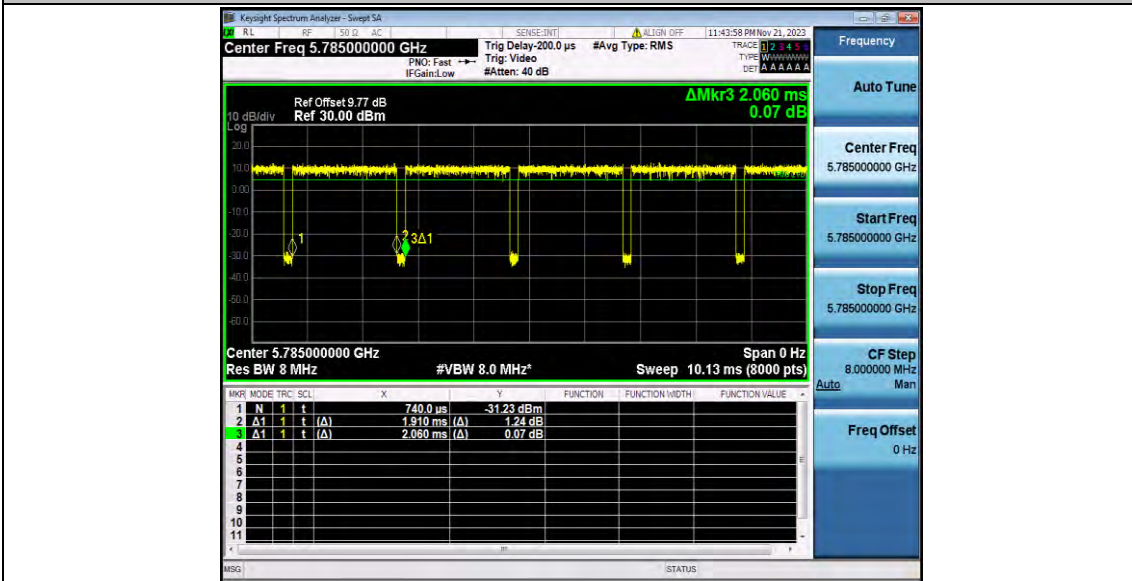
11A_Ant2_5785



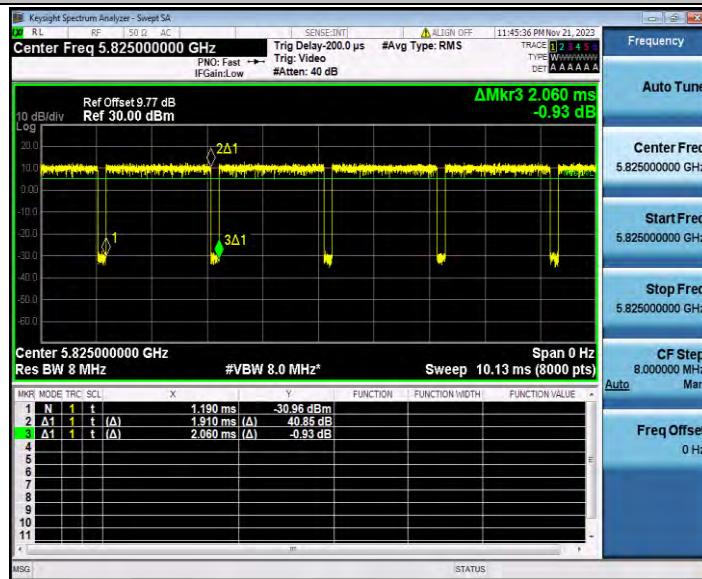
11A_Ant2_5825



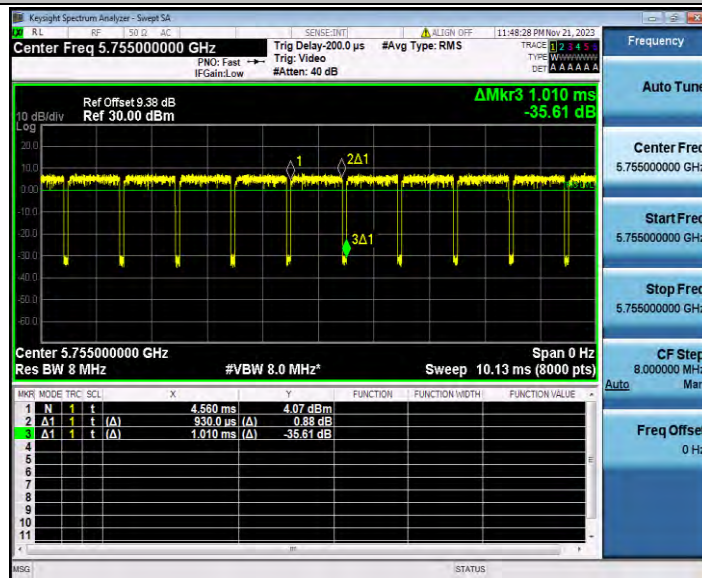
11N20SISO_Ant2_5745



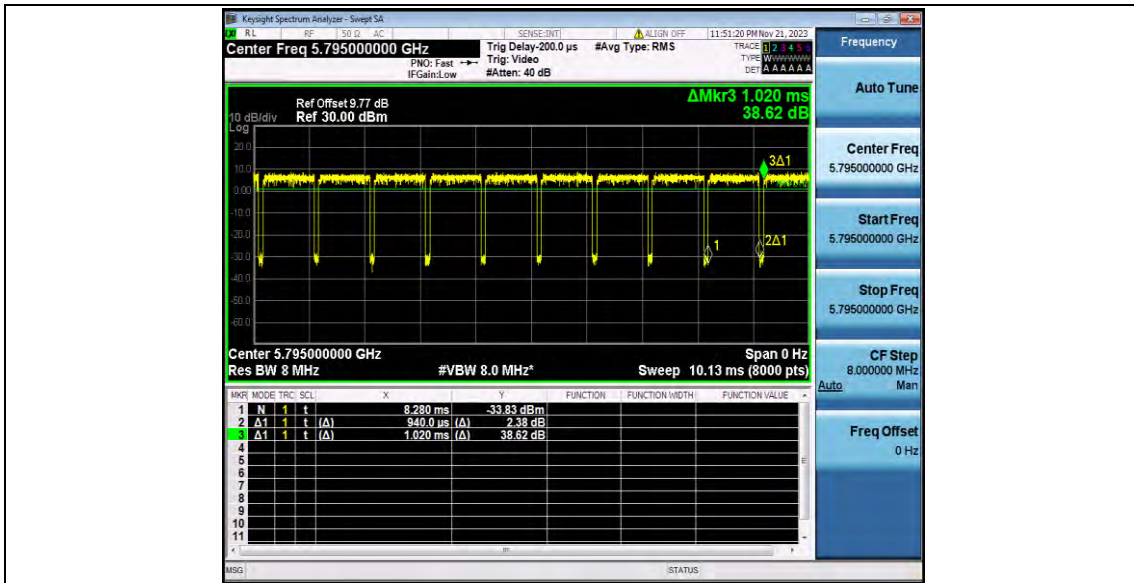
11N20SISO_Ant2_5785



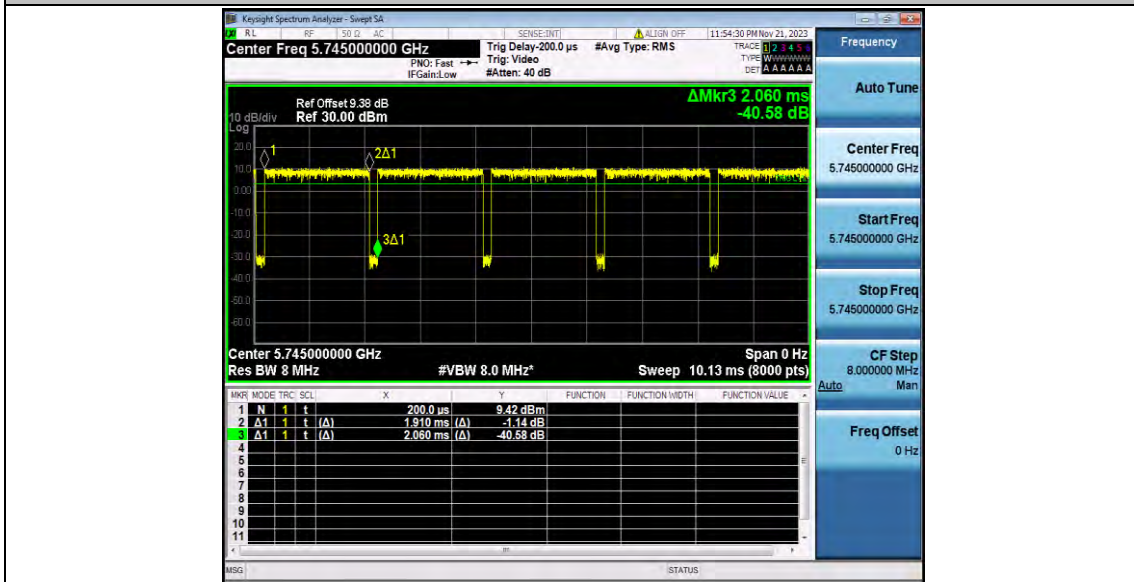
11N20SISO_Ant2_5825



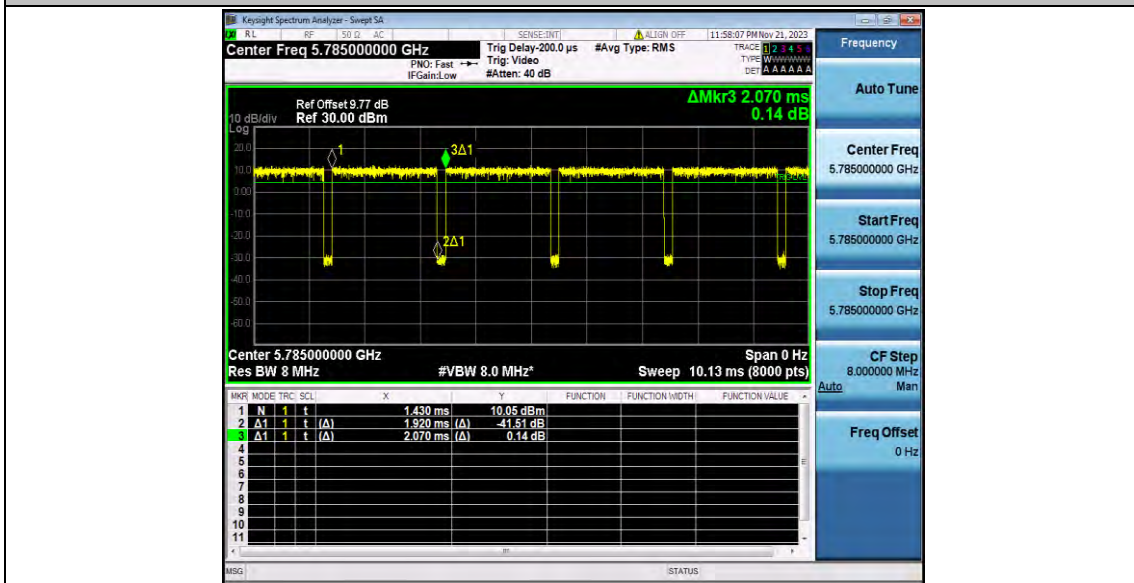
11N40SISO_Ant2_5755



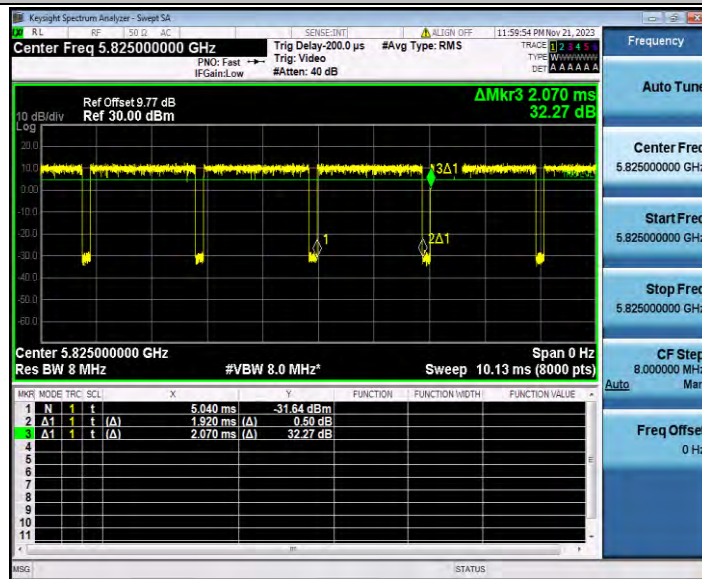
11N40SISO_Ant2_5795



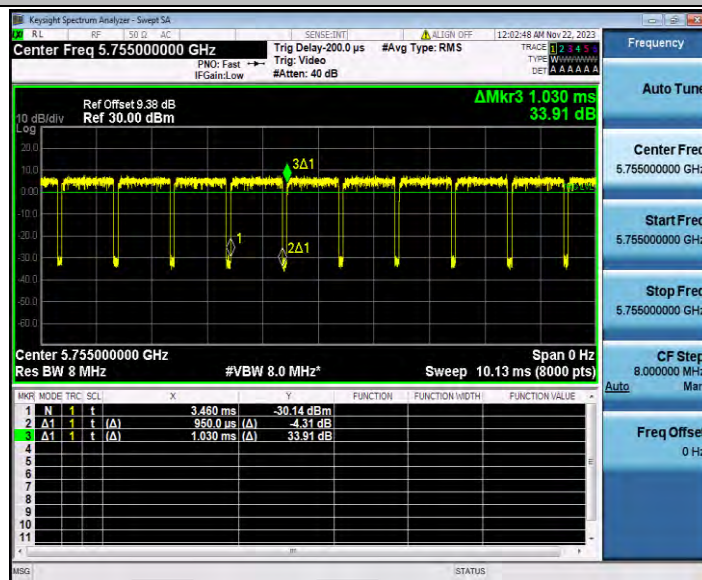
11AC20SISO_Ant2_5745



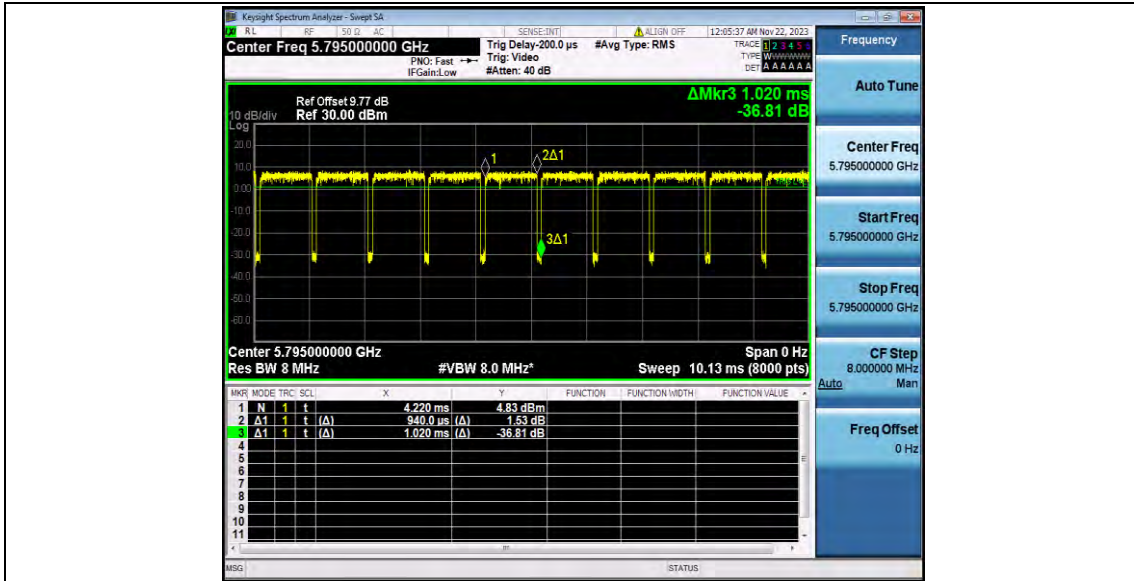
11AC20SISO_Ant2_5785



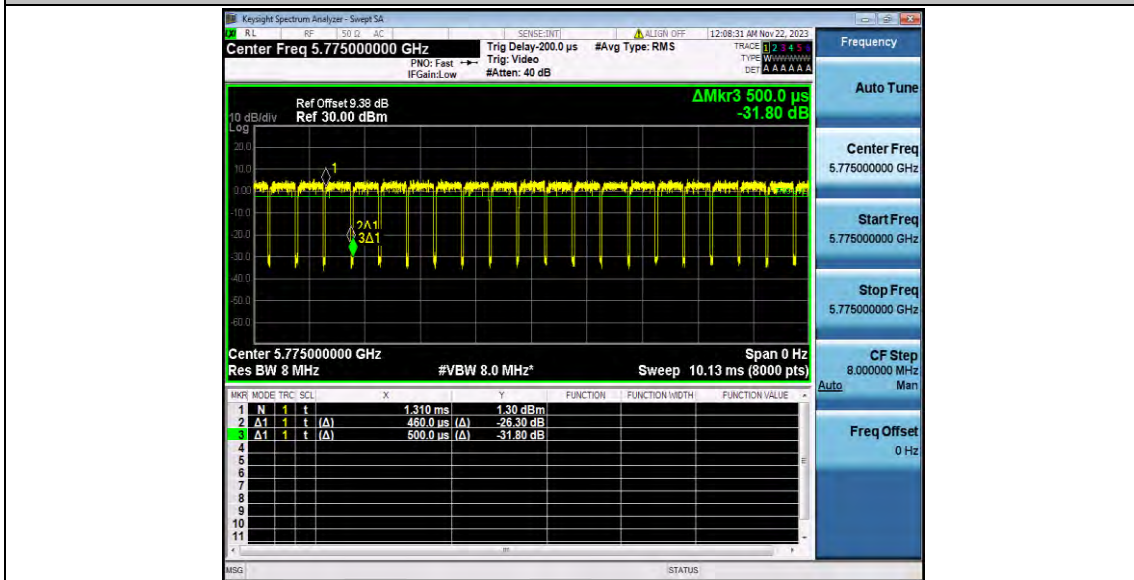
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



11AC80SISO_Ant2_5775

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	Ant2	5745	11.25	92.31	0.35	11.60	≤30.00	PASS
		5785	12.42	92.73	0.33	12.75	≤30.00	PASS
		5825	12.78	92.76	0.33	13.11	≤30.00	PASS
11N20SISO	Ant2	5745	11.07	92.68	0.33	11.40	≤30.00	PASS
		5785	12.28	92.72	0.33	12.61	≤30.00	PASS
		5825	12.72	92.72	0.33	13.05	≤30.00	PASS
11N40SISO	Ant2	5755	11.18	92.08	0.36	11.54	≤30.00	PASS
		5795	12.07	92.16	0.35	12.42	≤30.00	PASS
11AC20SISO	Ant2	5745	10.96	92.72	0.33	11.29	≤30.00	PASS
		5785	11.89	92.75	0.33	12.22	≤30.00	PASS
		5825	12.39	92.75	0.33	12.72	≤30.00	PASS
11AC40SISO	Ant2	5755	11.10	92.23	0.35	11.45	≤30.00	PASS
		5795	12.03	92.16	0.35	12.38	≤30.00	PASS
11AC80SISO	Ant2	5775	11.65	92.00	0.36	12.01	≤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	Ant2	5745	-1.94	≤30.00	PASS
		5785	-0.9	≤30.00	PASS
		5825	-0.38	≤30.00	PASS
11N20SISO	Ant2	5745	-2.16	≤30.00	PASS
		5785	-1.23	≤30.00	PASS
		5825	-0.76	≤30.00	PASS
11N40SISO	Ant2	5755	-5.43	≤30.00	PASS
		5795	-4.5	≤30.00	PASS
11AC20SISO	Ant2	5745	-2.22	≤30.00	PASS
		5785	-1.23	≤30.00	PASS
		5825	-0.77	≤30.00	PASS
11AC40SISO	Ant2	5755	-5.65	≤30.00	PASS
		5795	-4.54	≤30.00	PASS
11AC80SISO	Ant2	5775	-8.19	≤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_Ant2_5745



11A_Ant2_5785



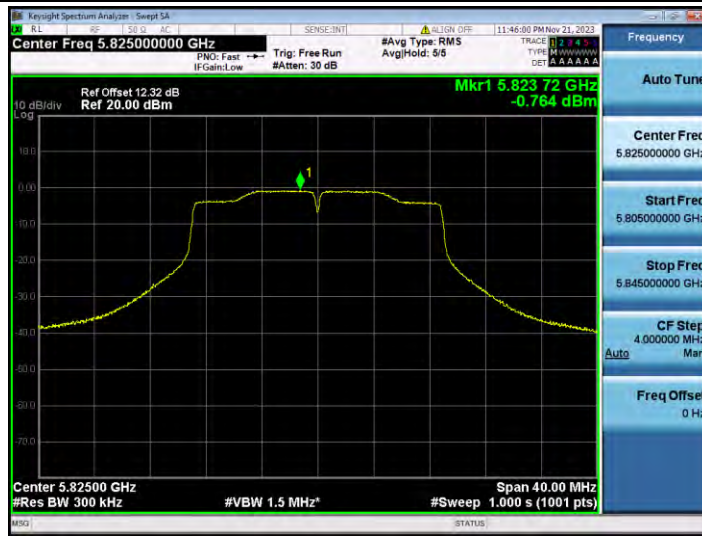
11A_Ant2_5825



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



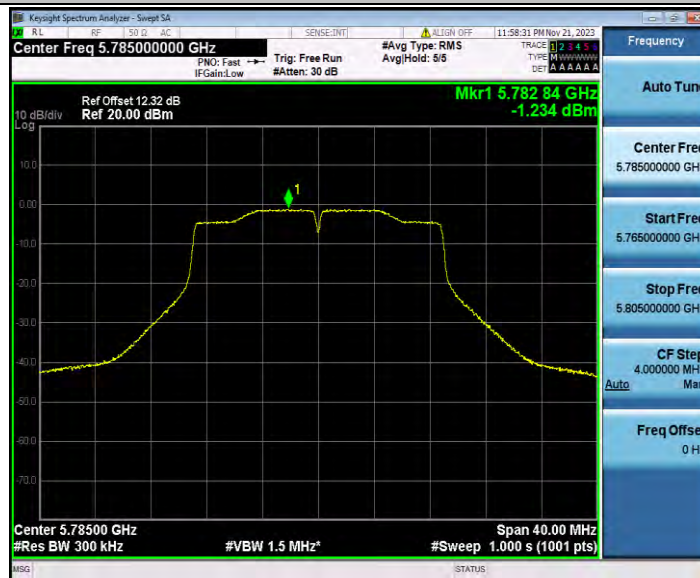
11N40SISO_Ant2_5755



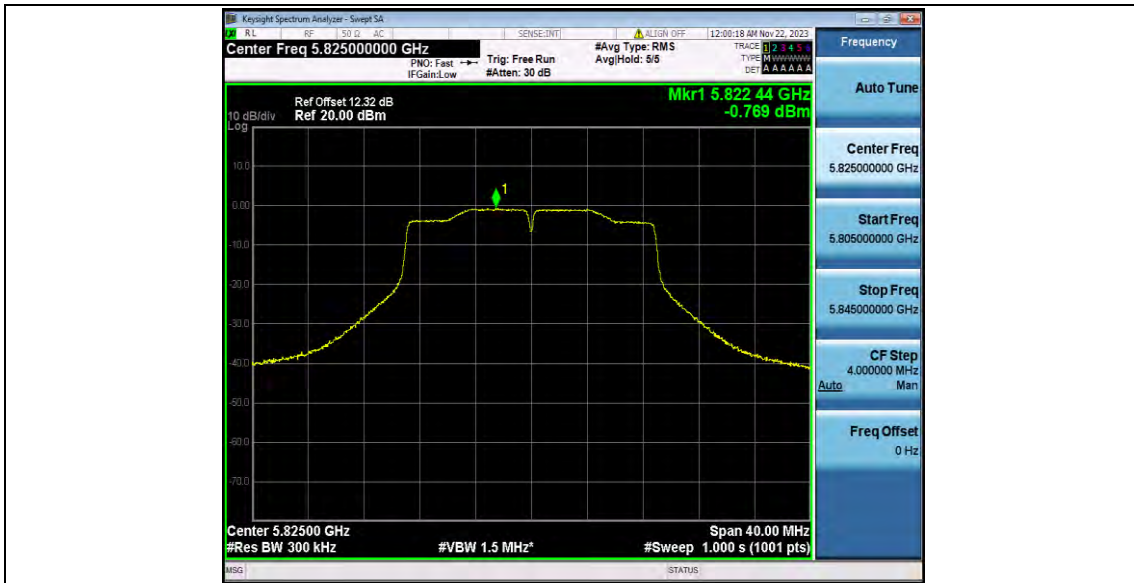
11N40SISO_Ant2_5795



11AC20SISO_Ant2_5745



11AC20SISO_Ant2_5785

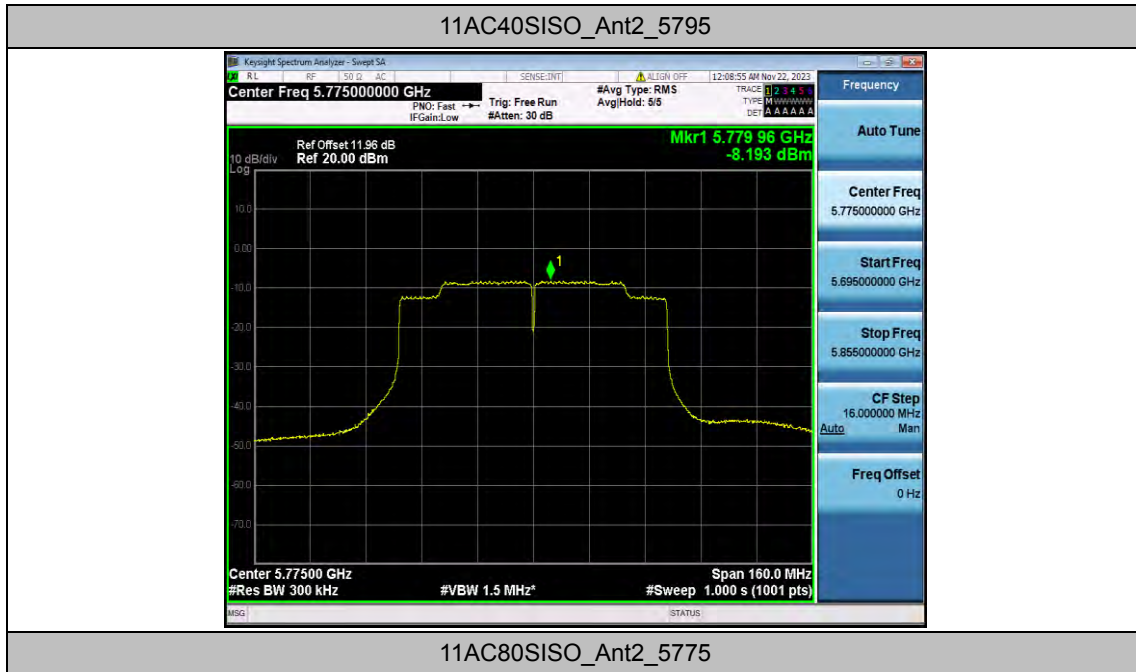


11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755





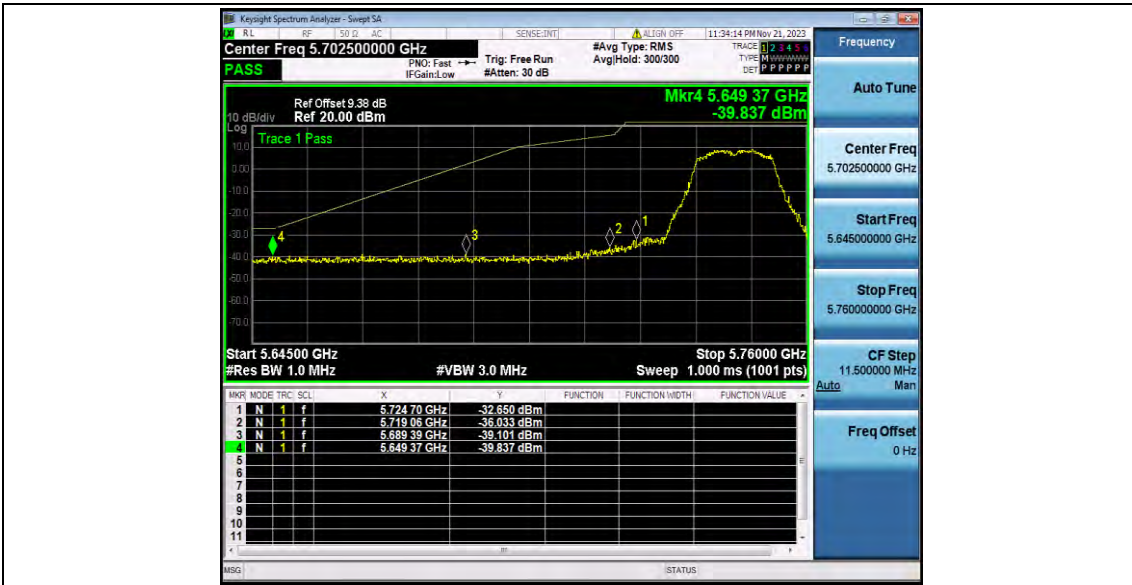
Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Frequency[M Hz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	Low	5745	5650~5700	-39.1	≤2.15	PASS
				5700~5720	-36.03	≤15.34	PASS
				5720~5725	-32.65	≤26.30	PASS
				5760~5650	-39.84	≤-27	PASS
		High	5825	5850~5855	-27.38	≤22.26	PASS
				5855~5875	-27.13	≤10.40	PASS
				5875~5925	-38.22	≤2.22	PASS
5925~5935	-38.38	≤-27	PASS				
11N20SIS O	Ant2	Low	5745	5650~5700	-39.08	≤5.38	PASS
				5700~5720	-35.19	≤15.34	PASS
				5720~5725	-34.23	≤24.99	PASS
				5760~5650	-39.48	≤-27	PASS
		High	5825	5850~5855	-28.76	≤21.03	PASS
				5855~5875	-29.12	≤10.17	PASS
				5875~5925	-38.49	≤-19.96	PASS
5925~5935	-38.2	≤-27	PASS				
11N40SIS O	Ant2	Low	5755	5650~5700	-37.27	≤4.07	PASS
				5700~5720	-33.35	≤15.24	PASS
				5720~5725	-28.81	≤23.74	PASS
				5780~5650	-40.15	≤-27	PASS
		High	5795	5850~5855	-31.52	≤21.68	PASS
				5855~5875	-31.8	≤10.55	PASS
				5875~5925	-36.21	≤-20.45	PASS
5925~5935	-36.99	≤-27	PASS				
11AC20SI SO	Ant2	Low	5745	5650~5700	-39.16	≤-7.13	PASS
				5700~5720	-35.77	≤14.47	PASS
				5720~5725	-33.63	≤17.91	PASS
				5760~5650	-39.53	≤-27	PASS
		High	5825	5850~5855	-28.51	≤17.95	PASS
				5855~5875	-27.37	≤10.36	PASS
				5875~5925	-37.92	≤-7.38	PASS
5925~5935	-38.32	≤-27	PASS				
11AC40SI SO	Ant2	Low	5755	5650~5700	-36.51	≤8.86	PASS
				5700~5720	-31.46	≤14.86	PASS
				5720~5725	-29.03	≤22.20	PASS

				5780~5650	-39.42	≤-27	PASS
		High	5795	5850~5855	-29.79	≤15.66	PASS
				5855~5875	-30.51	≤11.10	PASS
				5875~5925	-37.71	≤-22.89	PASS
				5925~5935	-39.25	≤-27	PASS
11AC80SI SO	Ant2	Low	5775	5650~5700	-33.12	≤-4.55	PASS
				5700~5720	-30.71	≤15.35	PASS
				5720~5725	-30.06	≤26.25	PASS
				5800~5650	-36.58	≤-27	PASS
		High	5775	5850~5855	-30.35	≤17.90	PASS
				5855~5875	-31.28	≤11.63	PASS
				5875~5925	-36.38	≤-22.03	PASS
				5925~5935	-39	≤-27	PASS

Test Graphs B4



11A_Ant2_Low_5745



11A_Ant2_High_5825



11N20SISO_Ant2_Low_5745



11N20SISO_Ant2_High_5825



11N40SISO_Ant2_Low_5755



11N40SISO_Ant2_High_5795



11AC20SISO_Ant2_Low_5745



11AC20SISO_Ant2_High_5825



11AC40SISO_Ant2_Low_5755



11AC40SISO_Ant2_High_5795



11AC80SISO_Ant2_Low_5775



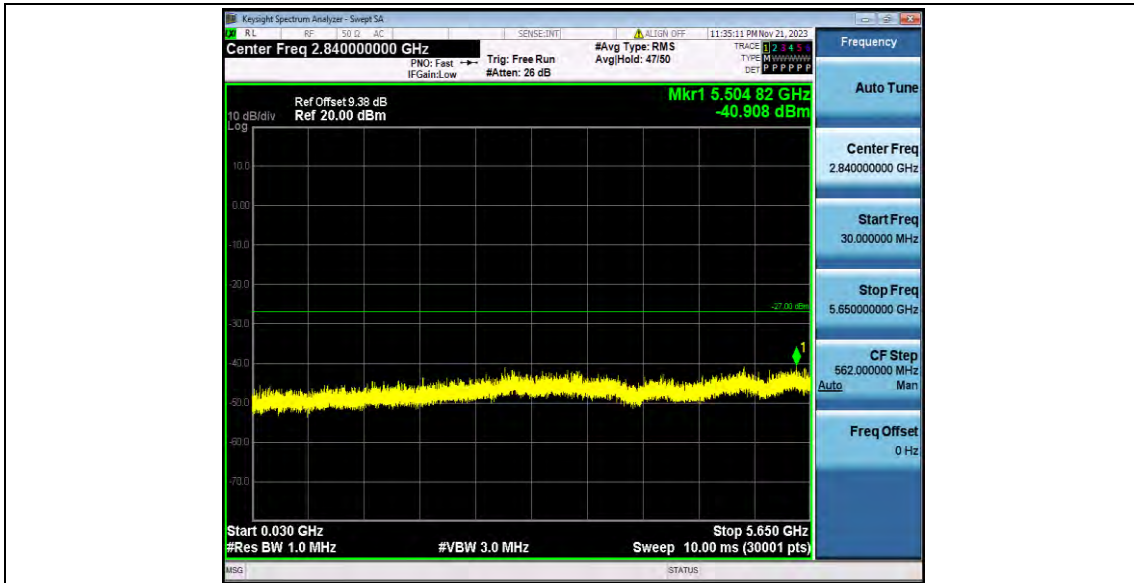
11AC80SISO_Ant2_High_5775

Appendix E.7: Conducted Spurious Emission

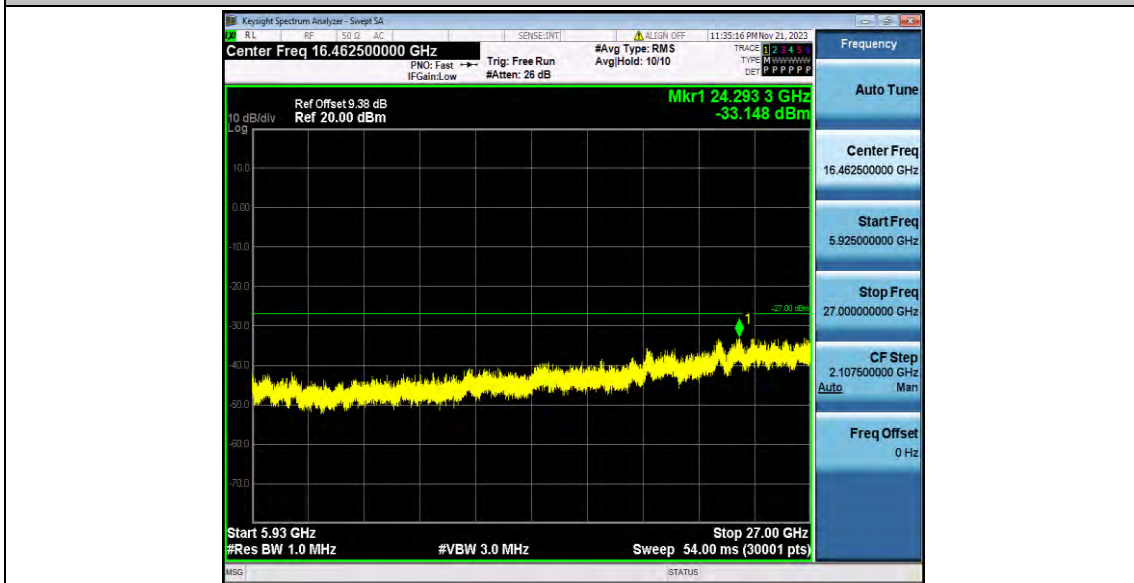
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5745	30~5650	5504.82	-40.91	≤-27	PASS
			5925~40000	24293.27	-33.15	≤-27	PASS
		5785	30~5650	5391.29	-40.11	≤-27	PASS
			5925~40000	26844.75	-31.46	≤-27	PASS
		5825	30~5650	4925.58	-39.96	≤-27	PASS
			5925~40000	26775.2	-32.15	≤-27	PASS
11N20SISO	Ant2	5745	30~5650	5431.94	-40.26	≤-27	PASS
			5925~40000	24259.55	-32.1	≤-27	PASS
		5785	30~5650	5467.72	-40.71	≤-27	PASS
			5925~40000	24270.79	-31.37	≤-27	PASS
		5825	30~5650	5453.86	-39.26	≤-27	PASS
			5925~40000	24092.35	-31.98	≤-27	PASS
11N40SISO	Ant2	5755	30~5650	3148.73	-40.98	≤-27	PASS
			5925~40000	26512.47	-32.35	≤-27	PASS
		5795	30~5650	4907.79	-40.13	≤-27	PASS
			5925~40000	24260.25	-32.15	≤-27	PASS
11AC20SISO	Ant2	5745	30~5650	5427.26	-40.91	≤-27	PASS
			5925~40000	24129.59	-32.83	≤-27	PASS
		5785	30~5650	5481.77	-39.7	≤-27	PASS
			5925~40000	24249.71	-32.58	≤-27	PASS
		5825	30~5650	5416.4	-40.6	≤-27	PASS
			5925~40000	24209.67	-32	≤-27	PASS
11AC40SISO	Ant2	5755	30~5650	5545.47	-40.68	≤-27	PASS
			5925~40000	24281.33	-32.21	≤-27	PASS
		5795	30~5650	5486.46	-40.52	≤-27	PASS
			5925~40000	26545.48	-31.48	≤-27	PASS
11AC80SISO	Ant2	5775	30~5650	5630.14	-40.7	≤-27	PASS
			5925~40000	24309.43	-32.57	≤-27	PASS

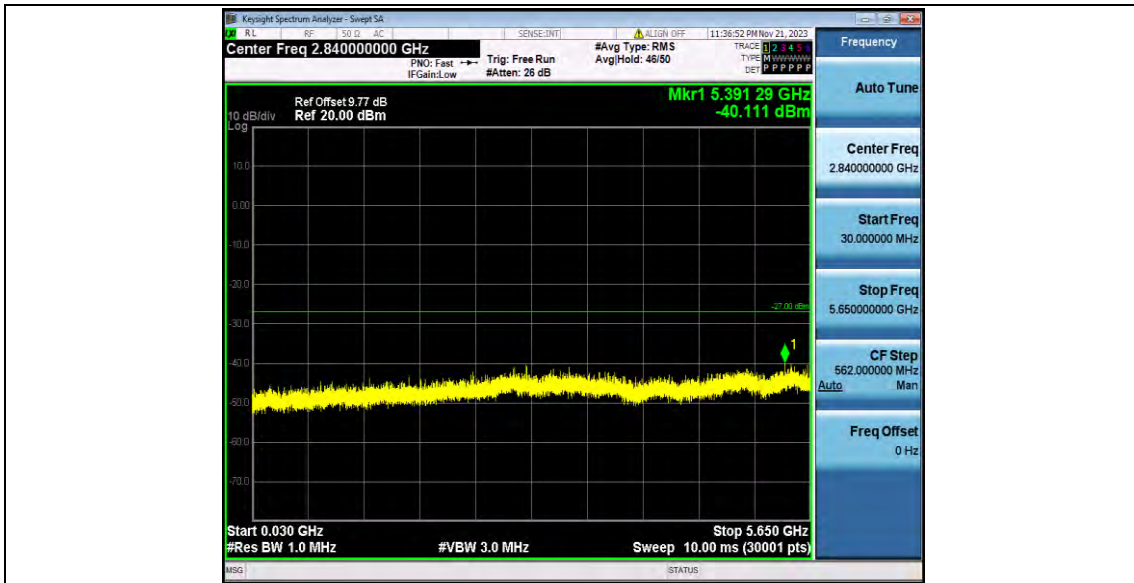
Test Graphs



11A_Ant2_5745_30~5650



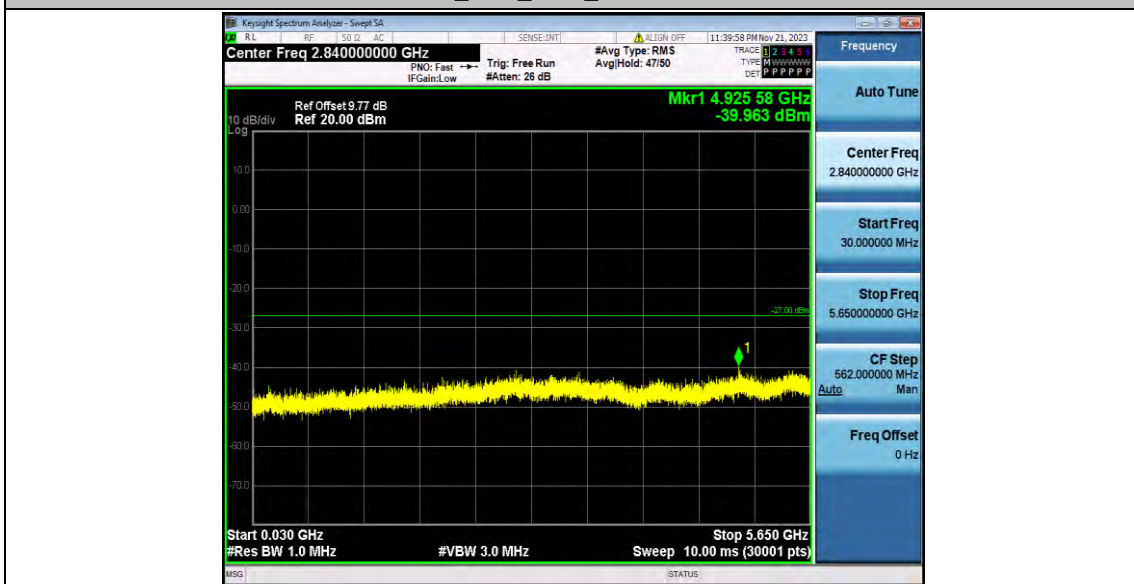
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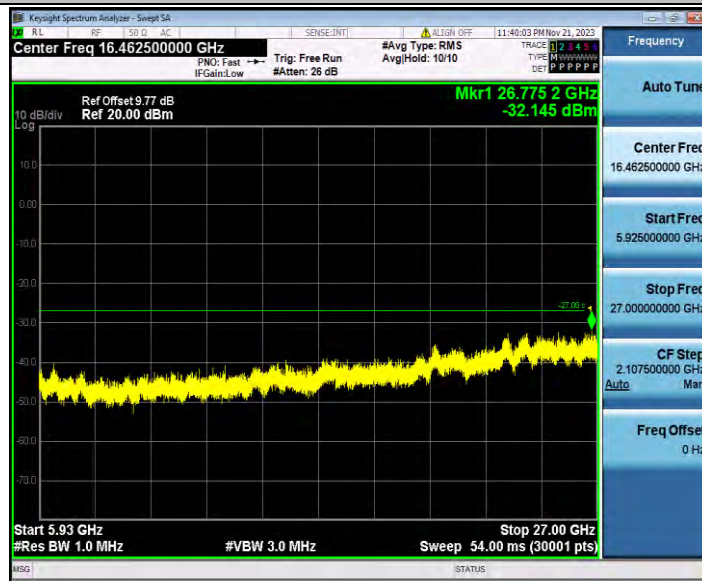
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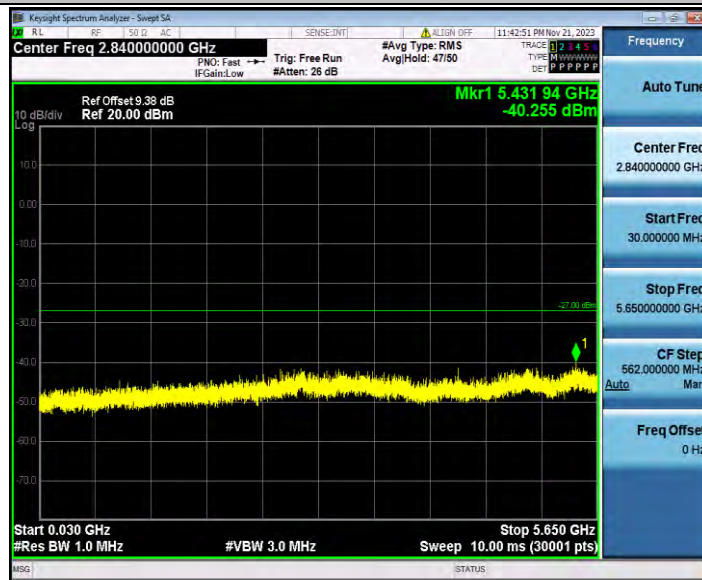
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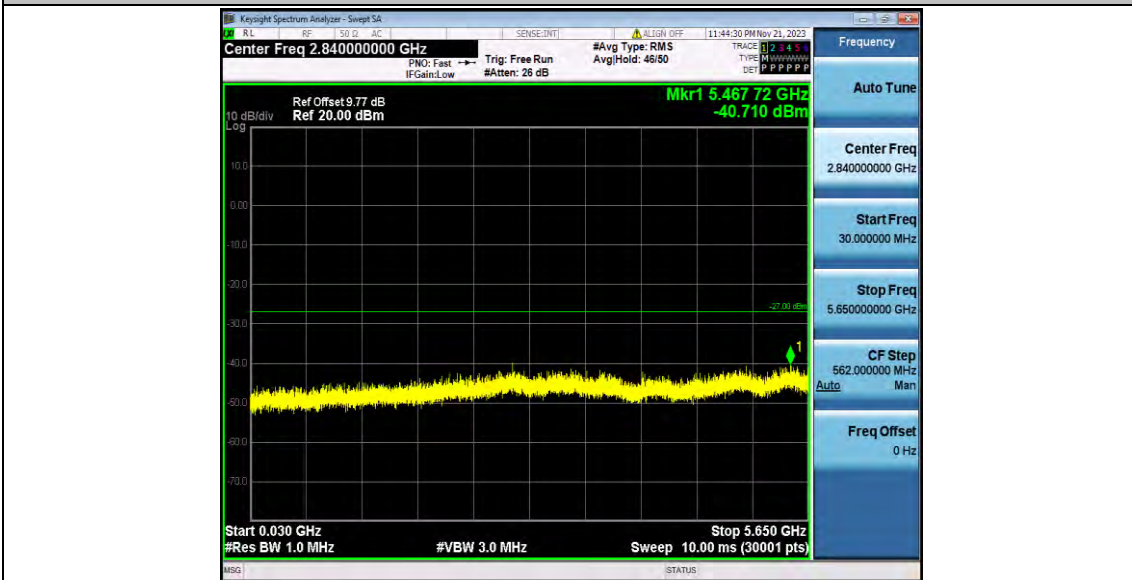
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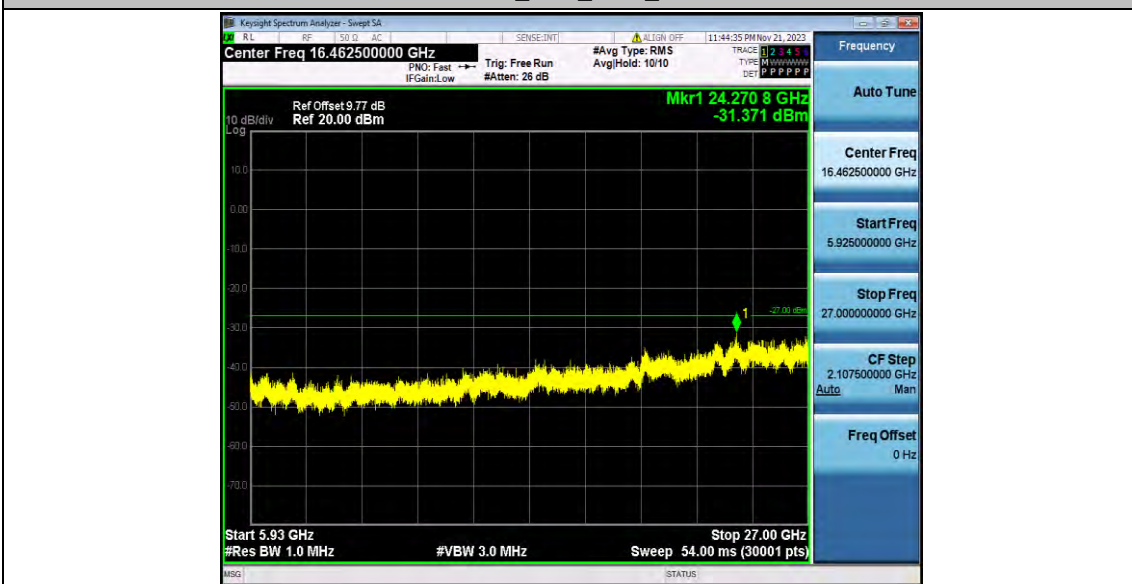
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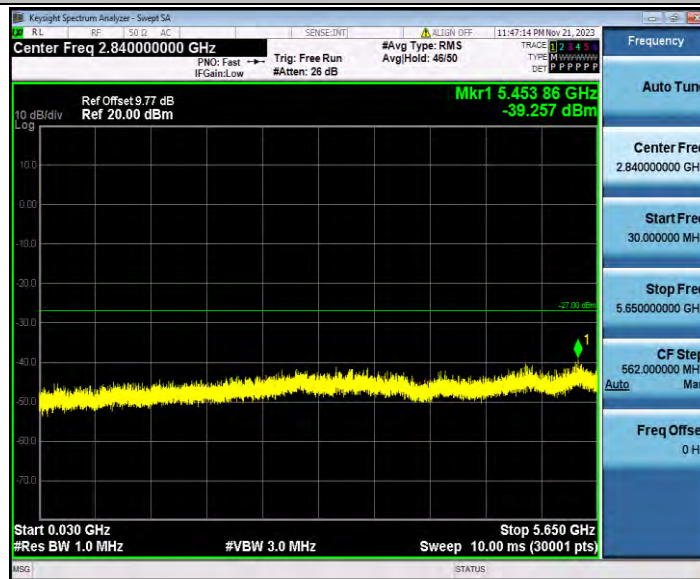
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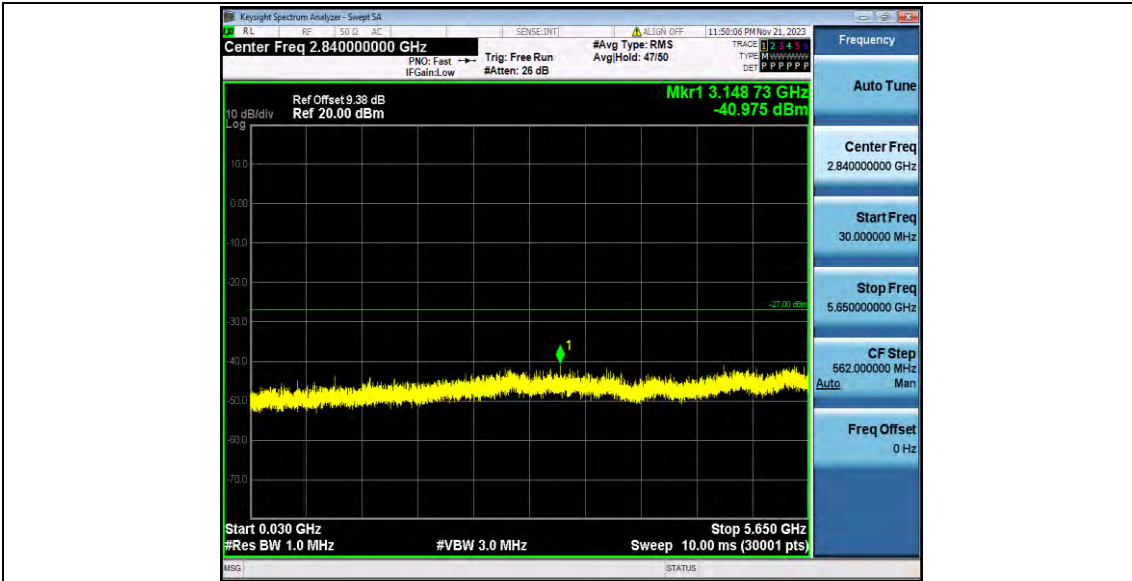
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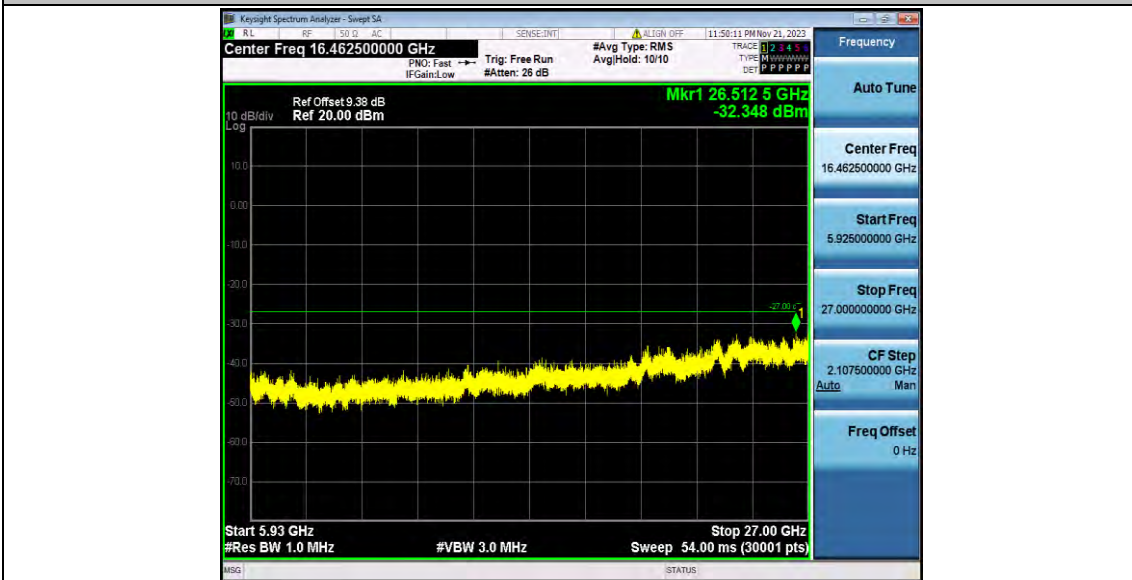
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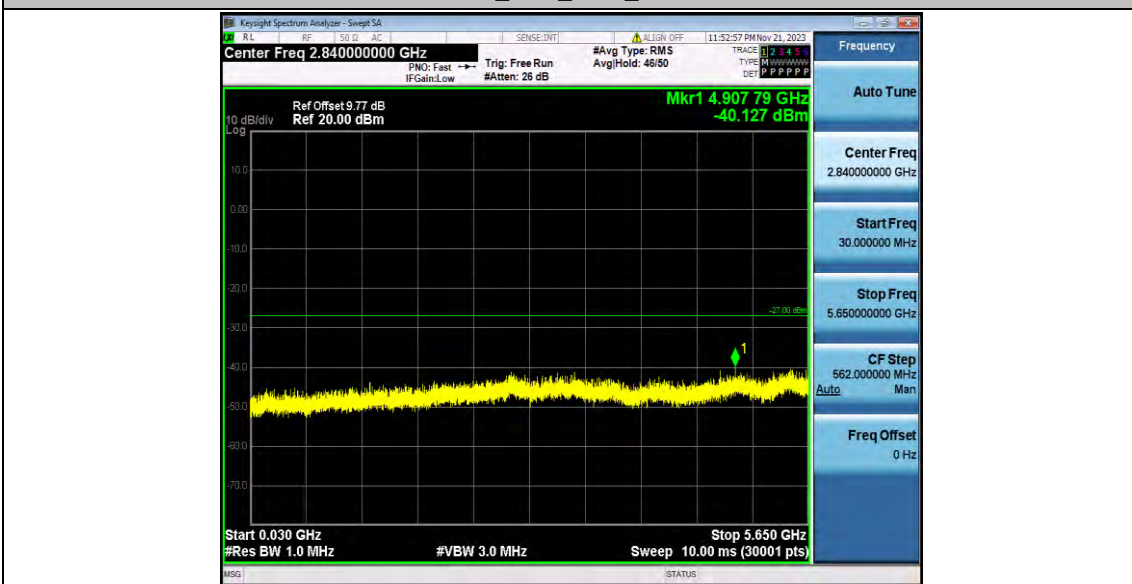
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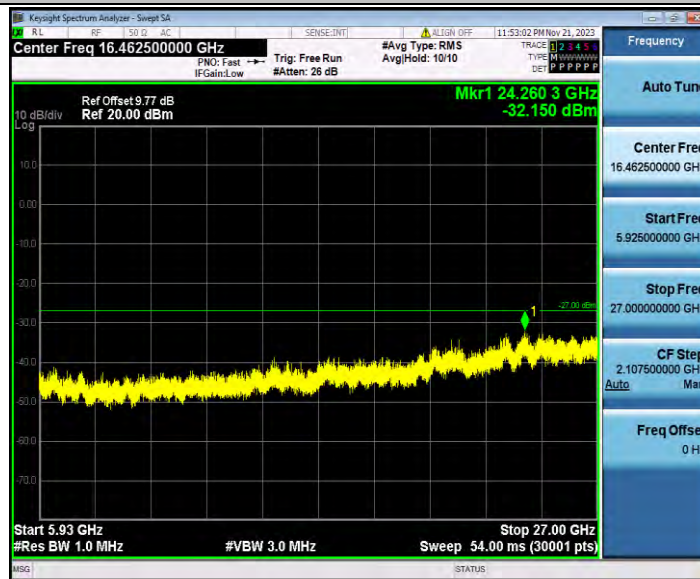
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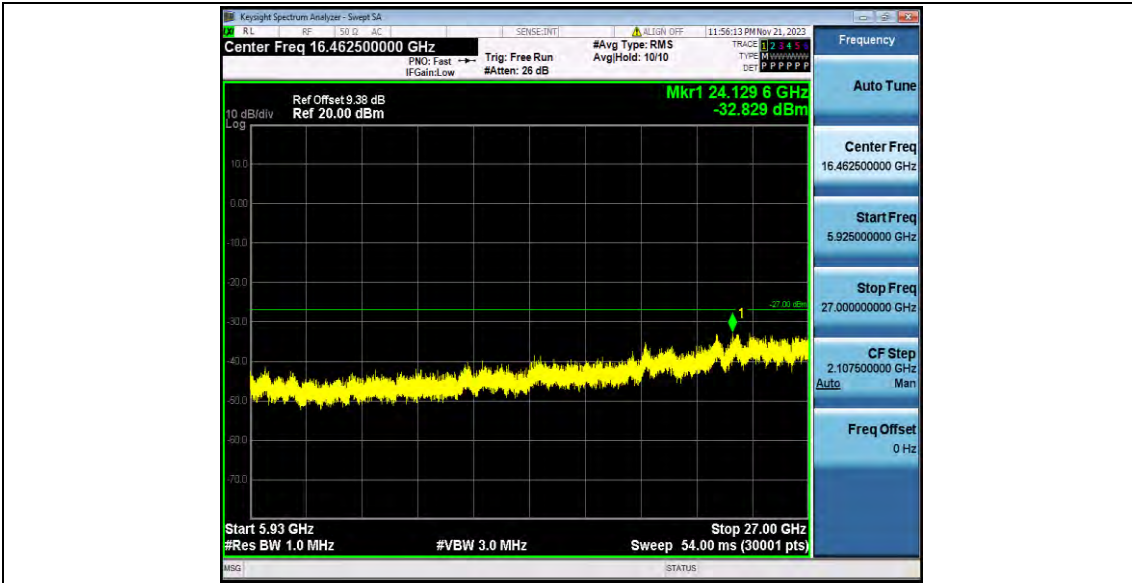
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11N40SISO_Ant2_5795_5925~40000



11AC20SISO_Ant2_5745_30~5650



11AC20SISO_Ant2_5745_5925~4000



11AC20SISO_Ant2_5785_30~5650



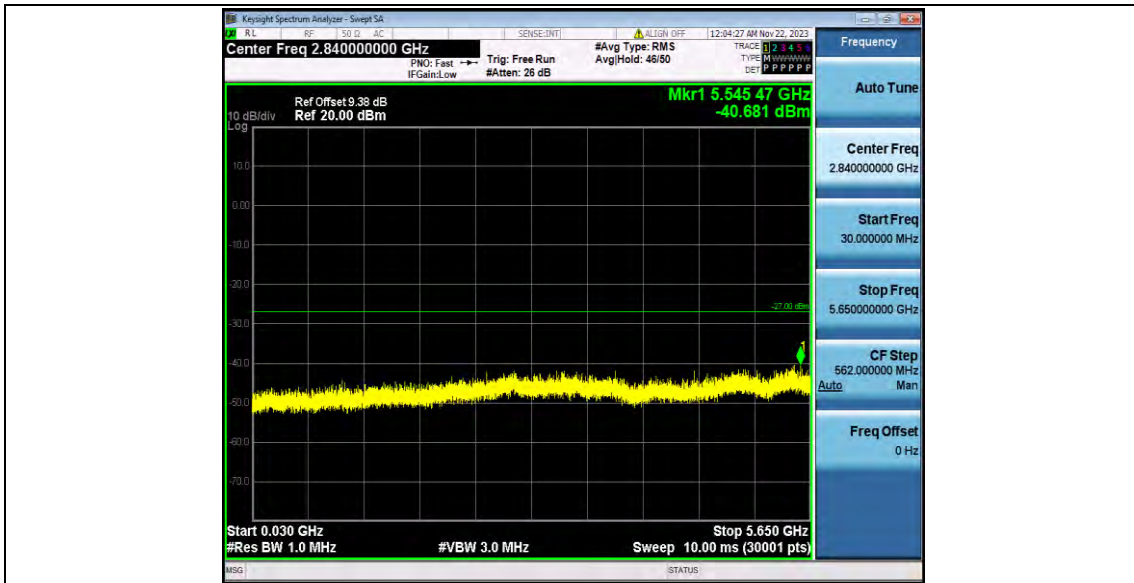
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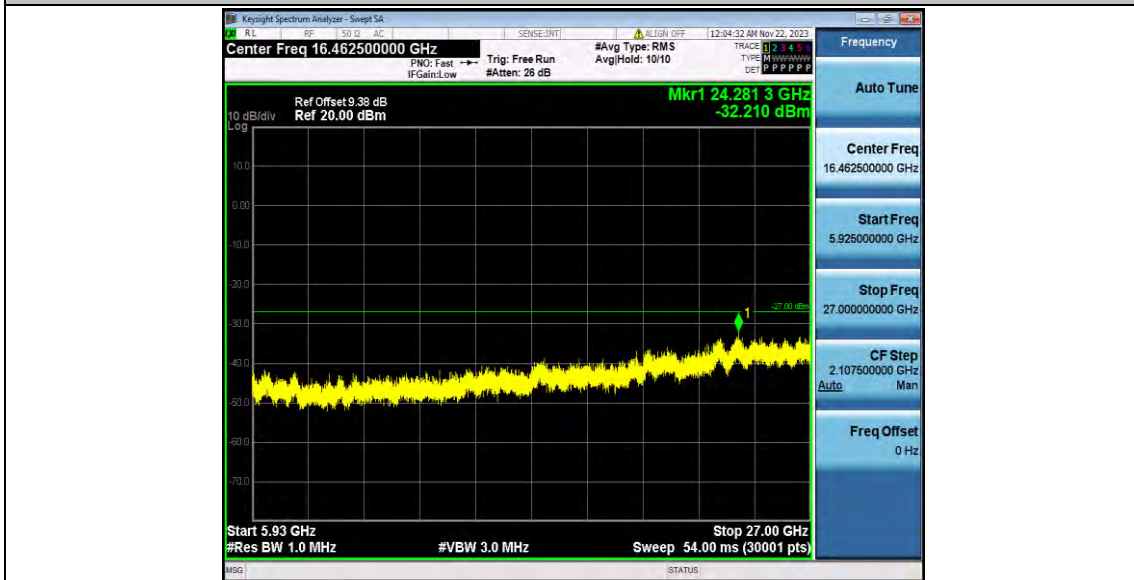
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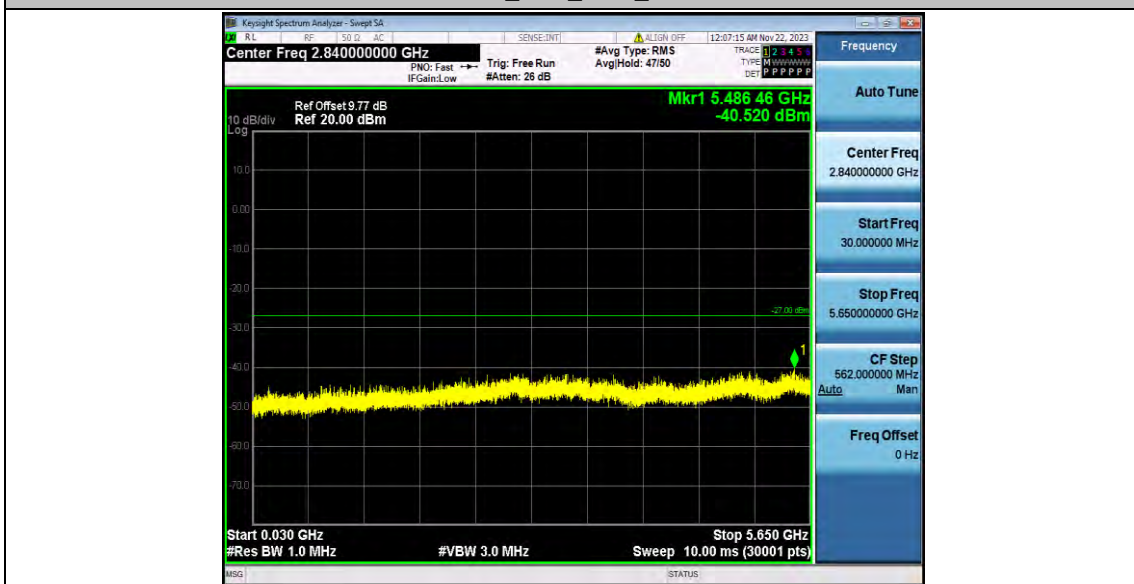
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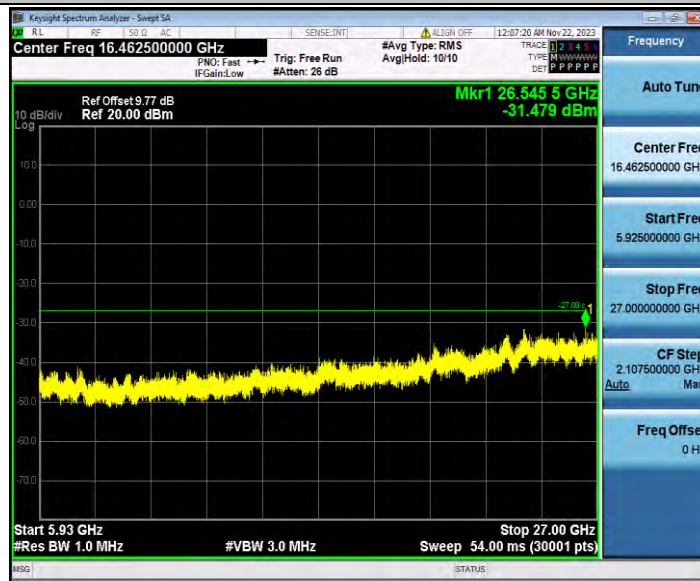
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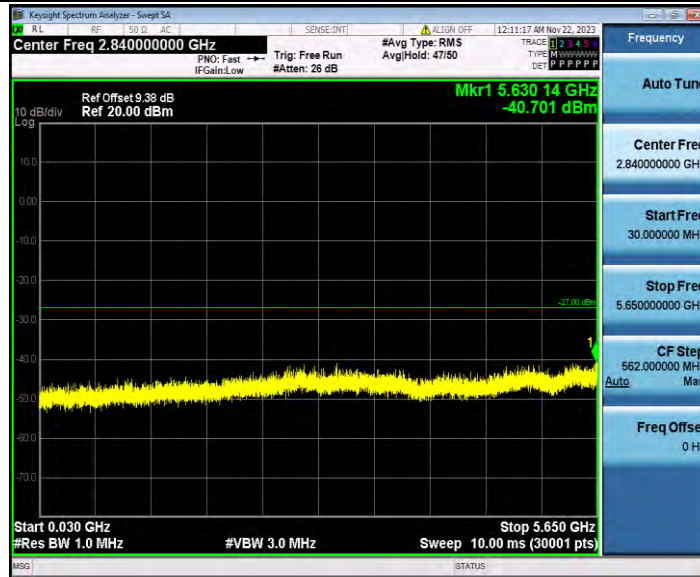
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11AC40SISO_Ant2_5795_30~5650



11AC40SISO_Ant2_5795_5925~40000



11AC80SISO_Ant2_5775_30~5650

