

Case No. : <u>CTA24071502204</u>	
Ambient Condition: <u>23</u> °C, <u>52</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.8.7</u>	Test Engineer: <u>Lushan Kong</u>

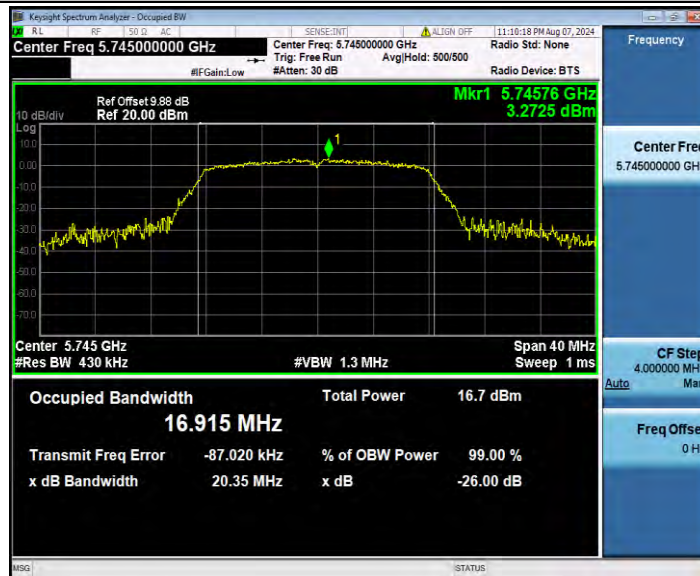
Appendix G.1: Occupied channel bandwidth

Test Result

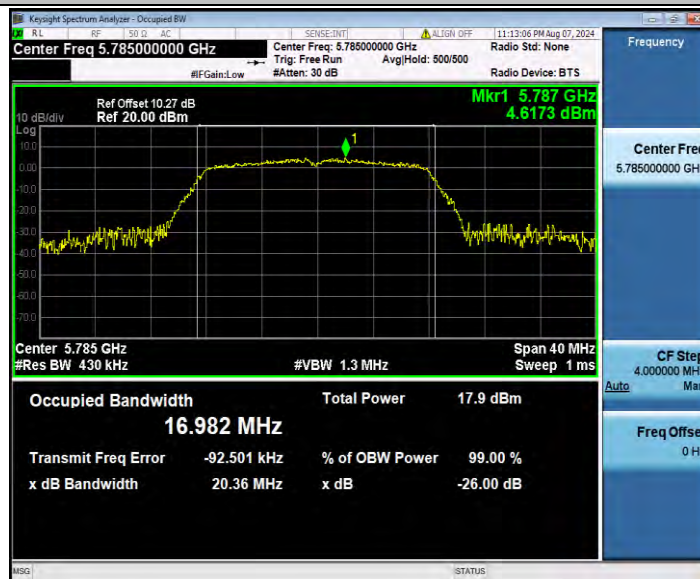
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.915	5736.4555	5753.3705	---	---
		5785	16.982	5776.4165	5793.3985	---	---
		5825	16.980	5816.4243	5833.4043	---	---
11N20SISO	Ant1	5745	16.996	5736.4450	5753.4410	---	---
		5785	16.981	5776.4405	5793.4215	---	---
		5825	16.979	5816.4381	5833.4171	---	---
11N40SISO	Ant1	5755	36.467	5736.7179	5773.1849	---	---
		5795	36.233	5776.8797	5813.1127	---	---
11AC20SISO	Ant1	5745	17.920	5735.9459	5753.8659	---	---
		5785	17.909	5775.9283	5793.8373	---	---
		5825	17.894	5815.9929	5833.8869	---	---
11AC40SISO	Ant1	5755	36.384	5736.7565	5773.1405	---	---
		5795	36.238	5776.8531	5813.0911	---	---
11AC80SISO	Ant1	5775	75.338	5737.4179	5812.7559	---	---

Test Graphs

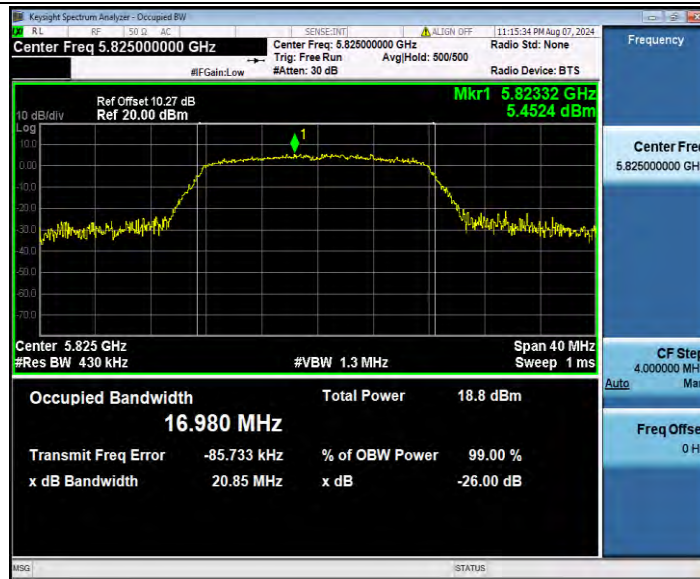
11A_Ant1_5745



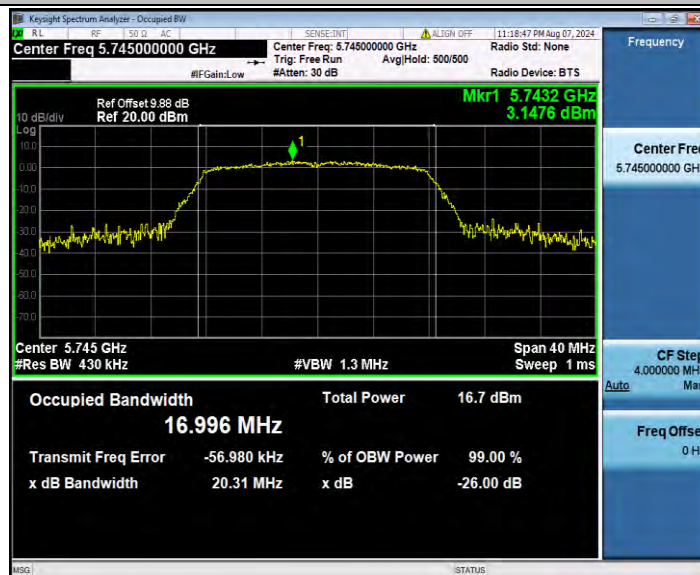
11A_Ant1_5785



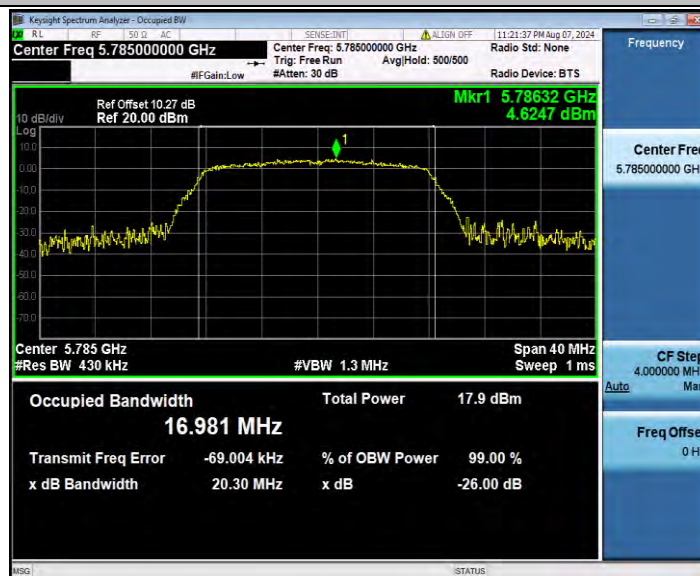
11A_Ant1_5825



11N20SISO_Ant1_5745



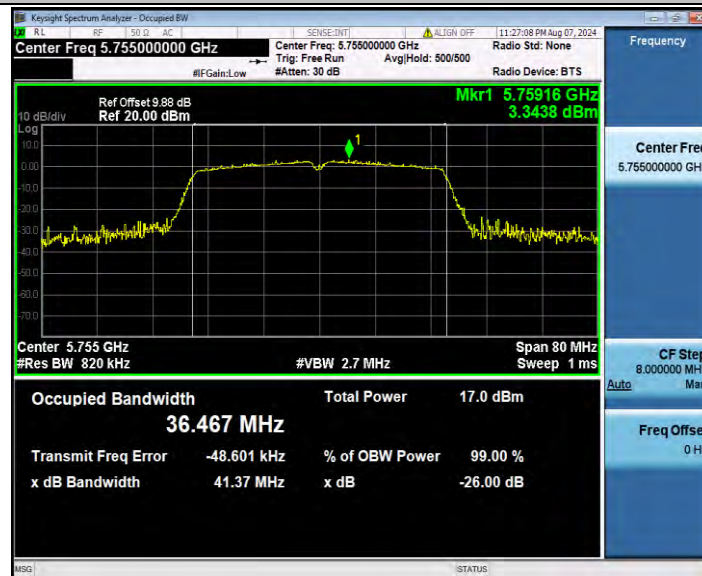
11N20SISO_Ant1_5785



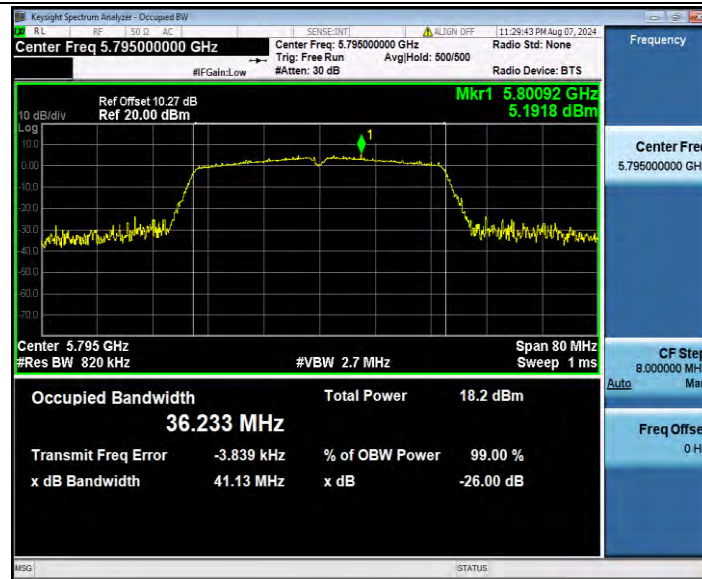
11N20SISO_Ant1_5825



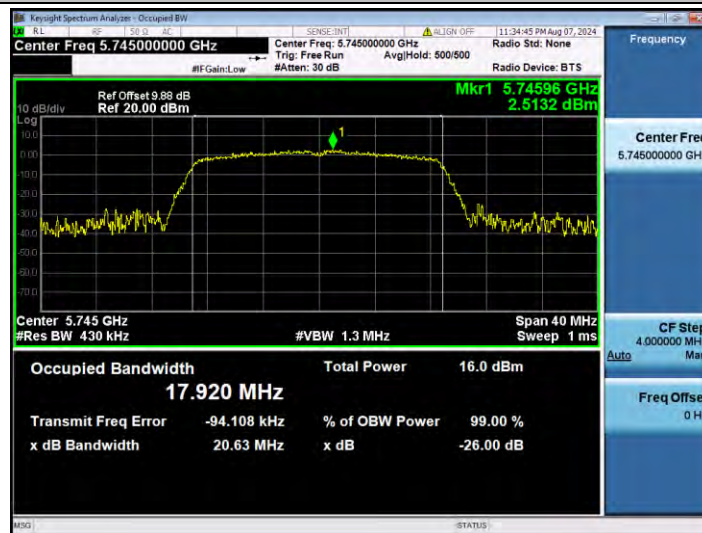
11N40SISO_Ant1_5755



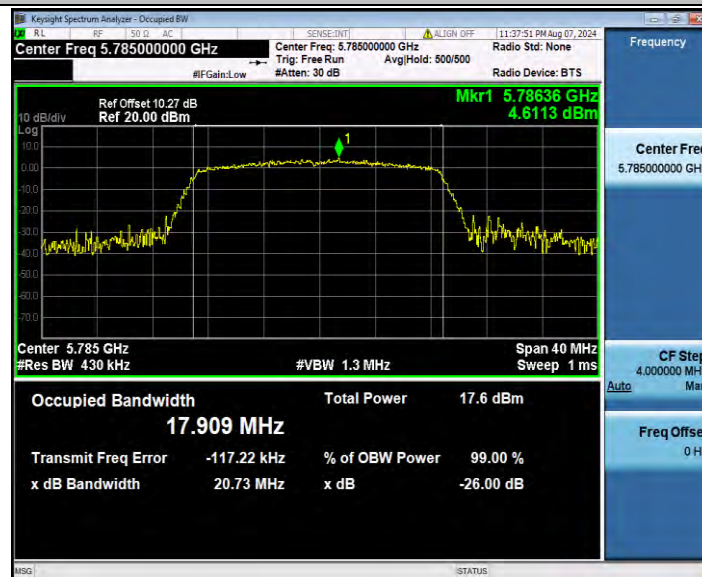
11N40SISO_Ant1_5795



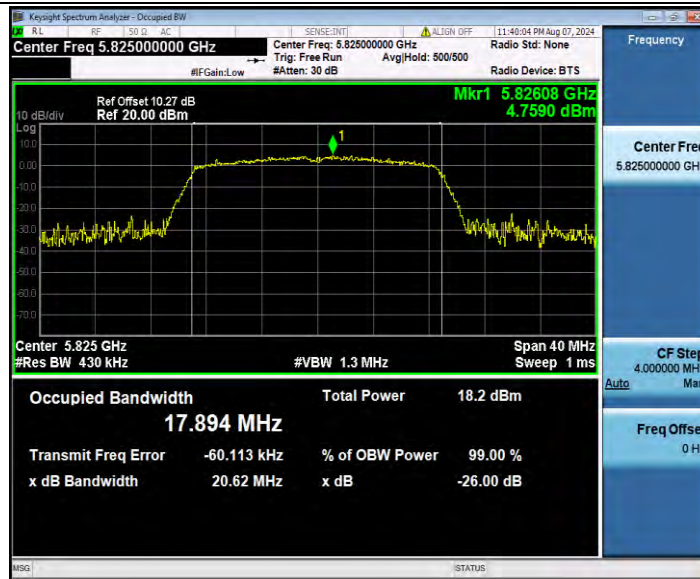
11AC20SISO_Ant1_5745



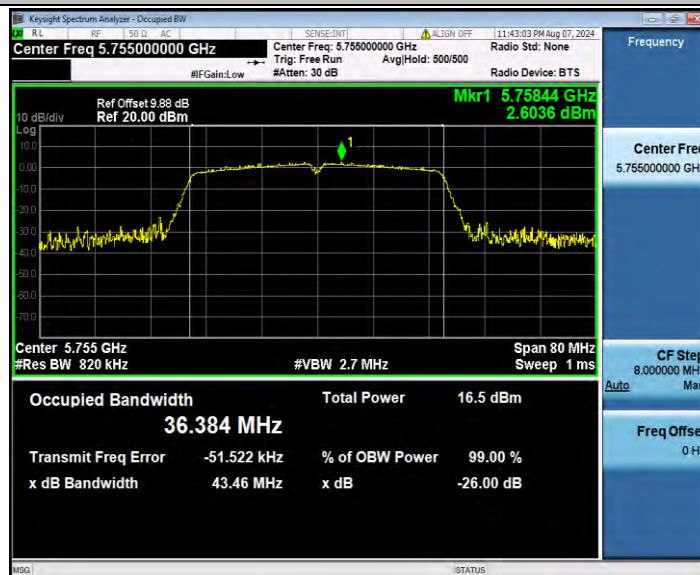
11AC20SISO_Ant1_5785



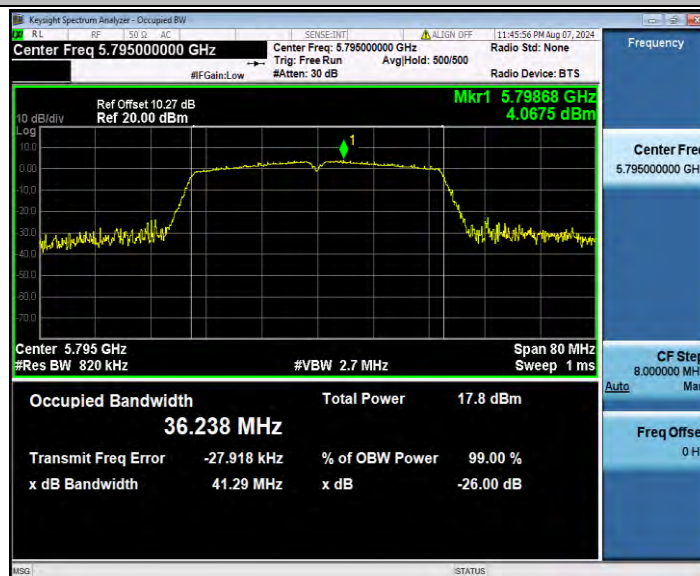
11AC20SISO_Ant1_5825

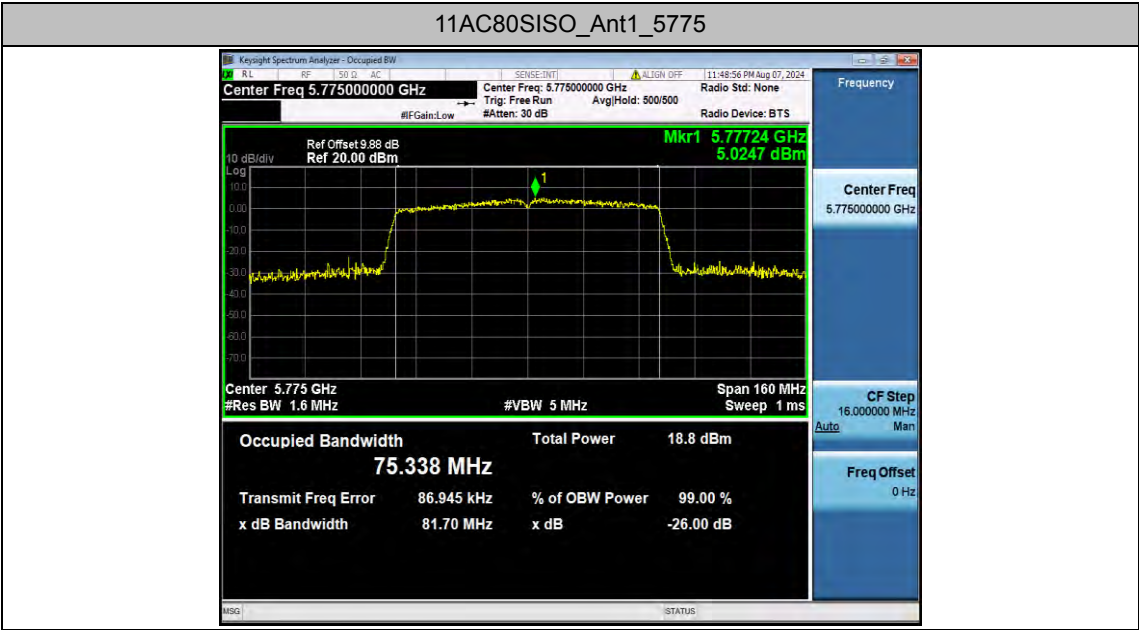


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





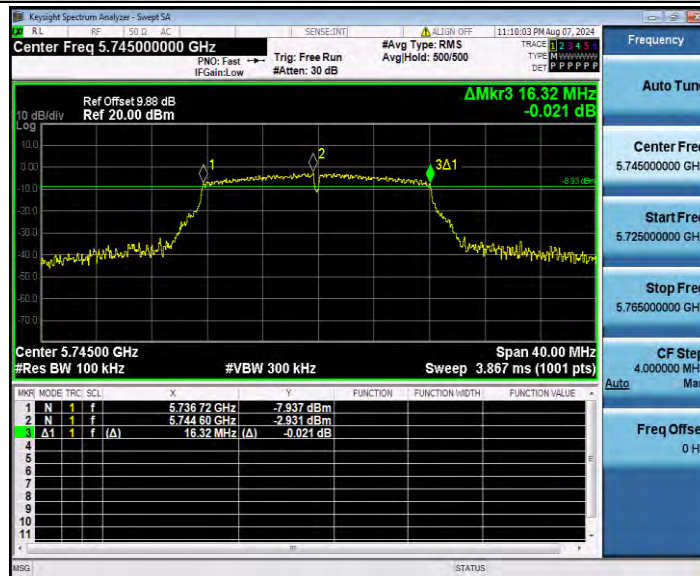
Appendix G.2: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.320	5736.720	5753.040	0.5	PASS
		5785	16.320	5776.720	5793.040	0.5	PASS
		5825	16.320	5816.720	5833.040	0.5	PASS
11N20SISO	Ant1	5745	16.320	5736.720	5753.040	0.5	PASS
		5785	16.320	5776.720	5793.040	0.5	PASS
		5825	16.320	5816.720	5833.040	0.5	PASS
11N40SISO	Ant1	5755	36.320	5736.760	5773.080	0.5	PASS
		5795	36.000	5777.000	5813.000	0.5	PASS
11AC20SISO	Ant1	5745	17.600	5736.080	5753.680	0.5	PASS
		5785	17.600	5776.080	5793.680	0.5	PASS
		5825	17.600	5816.080	5833.680	0.5	PASS
11AC40SISO	Ant1	5755	36.000	5737.000	5773.000	0.5	PASS
		5795	36.000	5777.000	5813.000	0.5	PASS
11AC80SISO	Ant1	5775	76.000	5737.080	5813.080	0.5	PASS

Test Graphs B4

11A_Ant1_5745



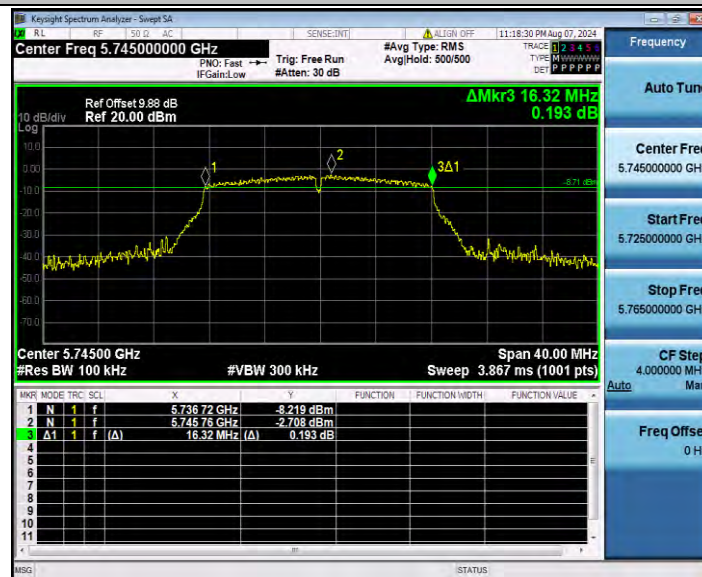
11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



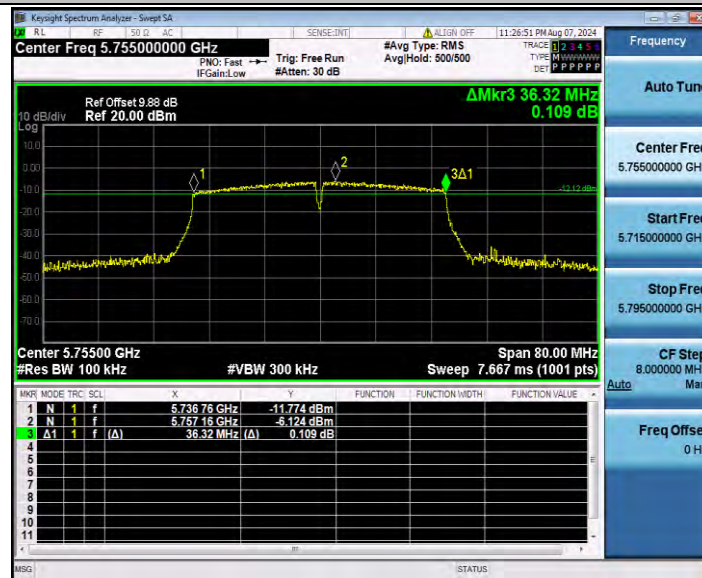
11N20SISO_Ant1_5785



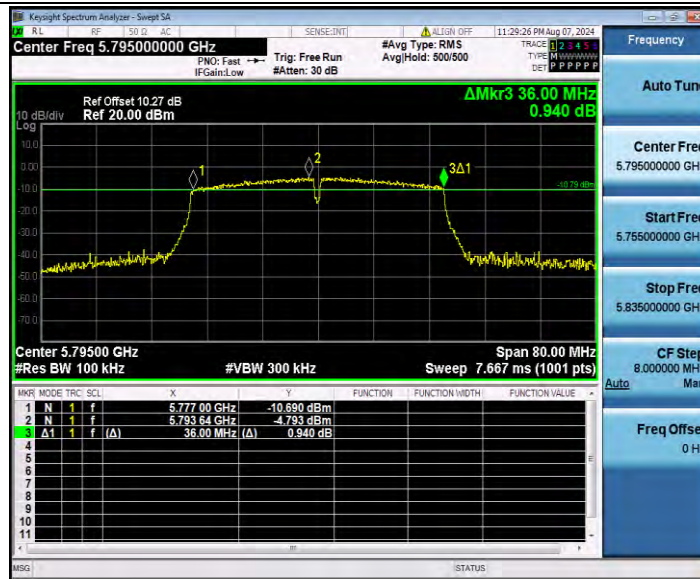
11N20SISO_Ant1_5825



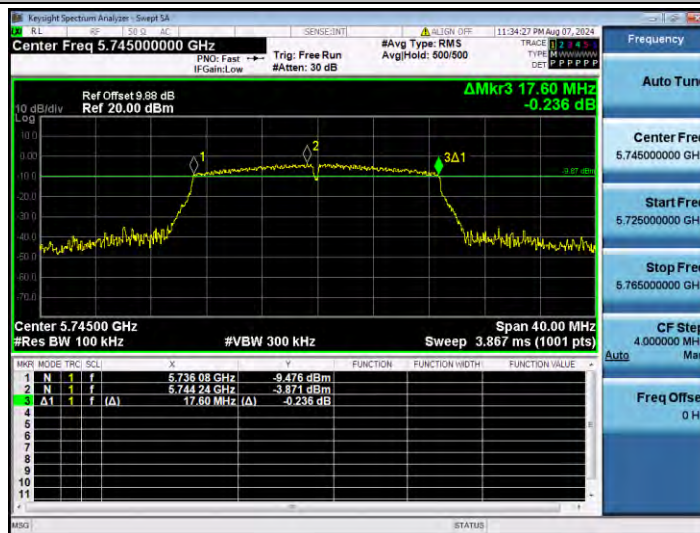
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



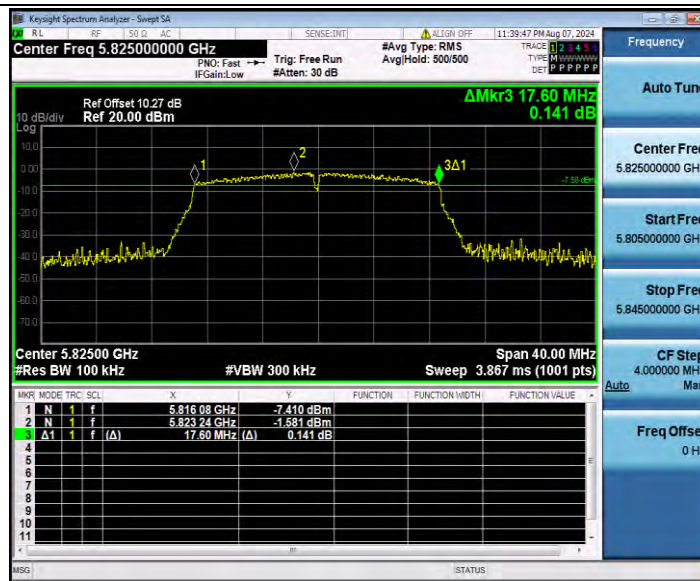
11AC20SISO_Ant1_5745



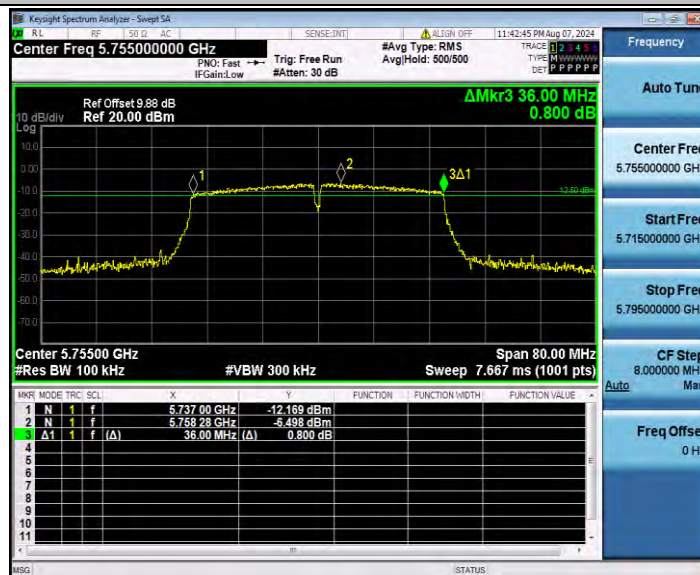
11AC20SISO_Ant1_5785



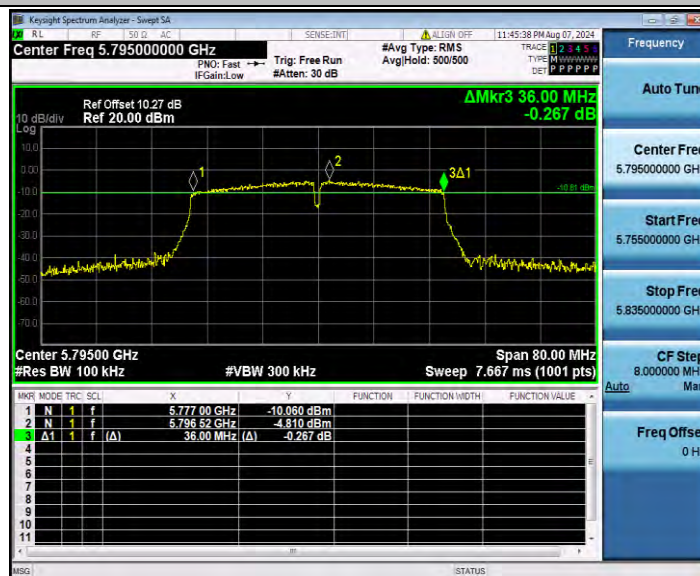
11AC20SISO_Ant1_5825

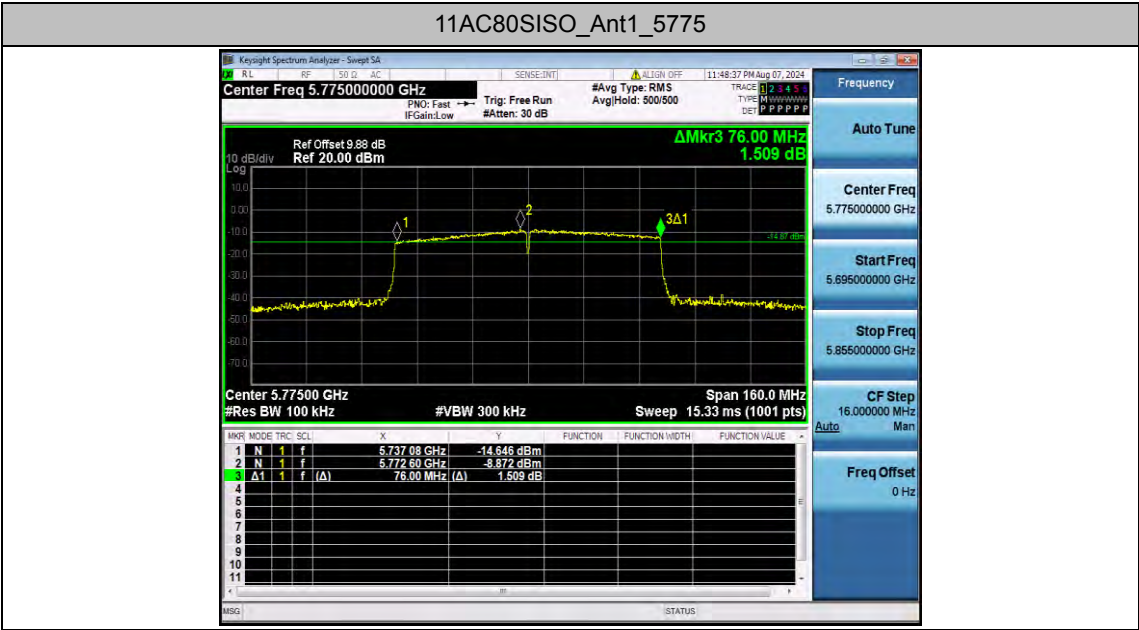


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





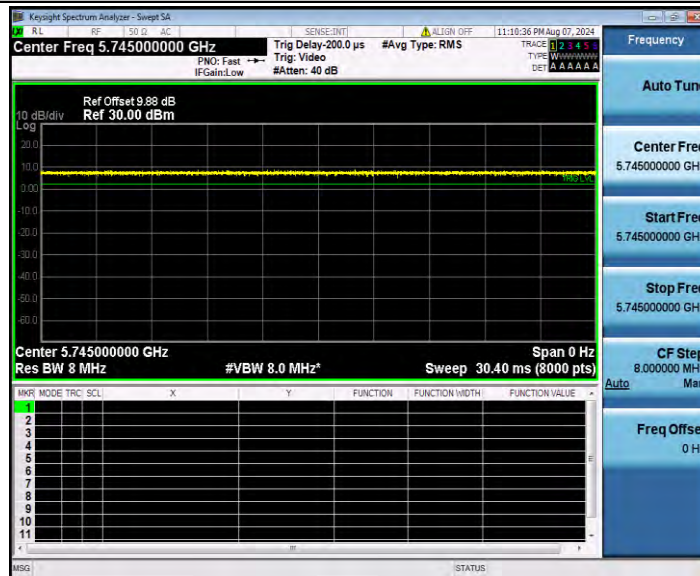
Appendix G.3: Duty Cycle

Test Result

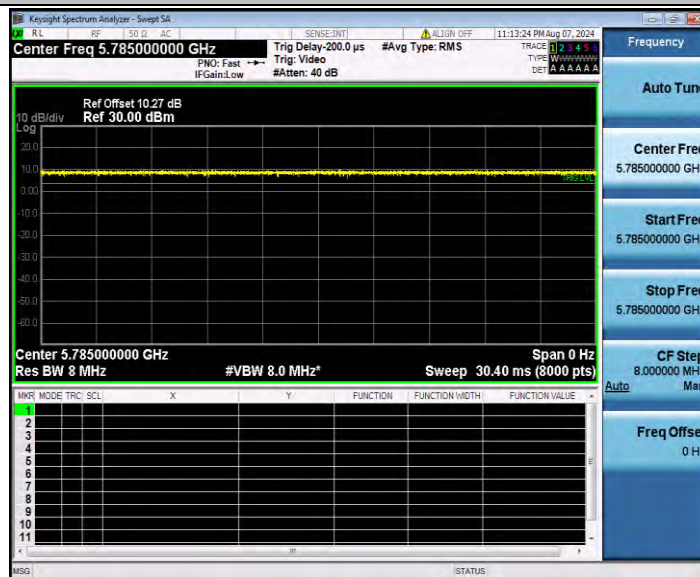
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11N40SISO	Ant1	5755	30.00	30.00	100.00	0.00	0.03
		5795	30.00	30.00	100.00	0.00	0.03
11AC20SISO	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11AC40SISO	Ant1	5755	30.00	30.00	100.00	0.00	0.03
		5795	30.00	30.00	100.00	0.00	0.03
11AC80SISO	Ant1	5775	30.00	30.00	100.00	0.00	0.03

Test Graphs

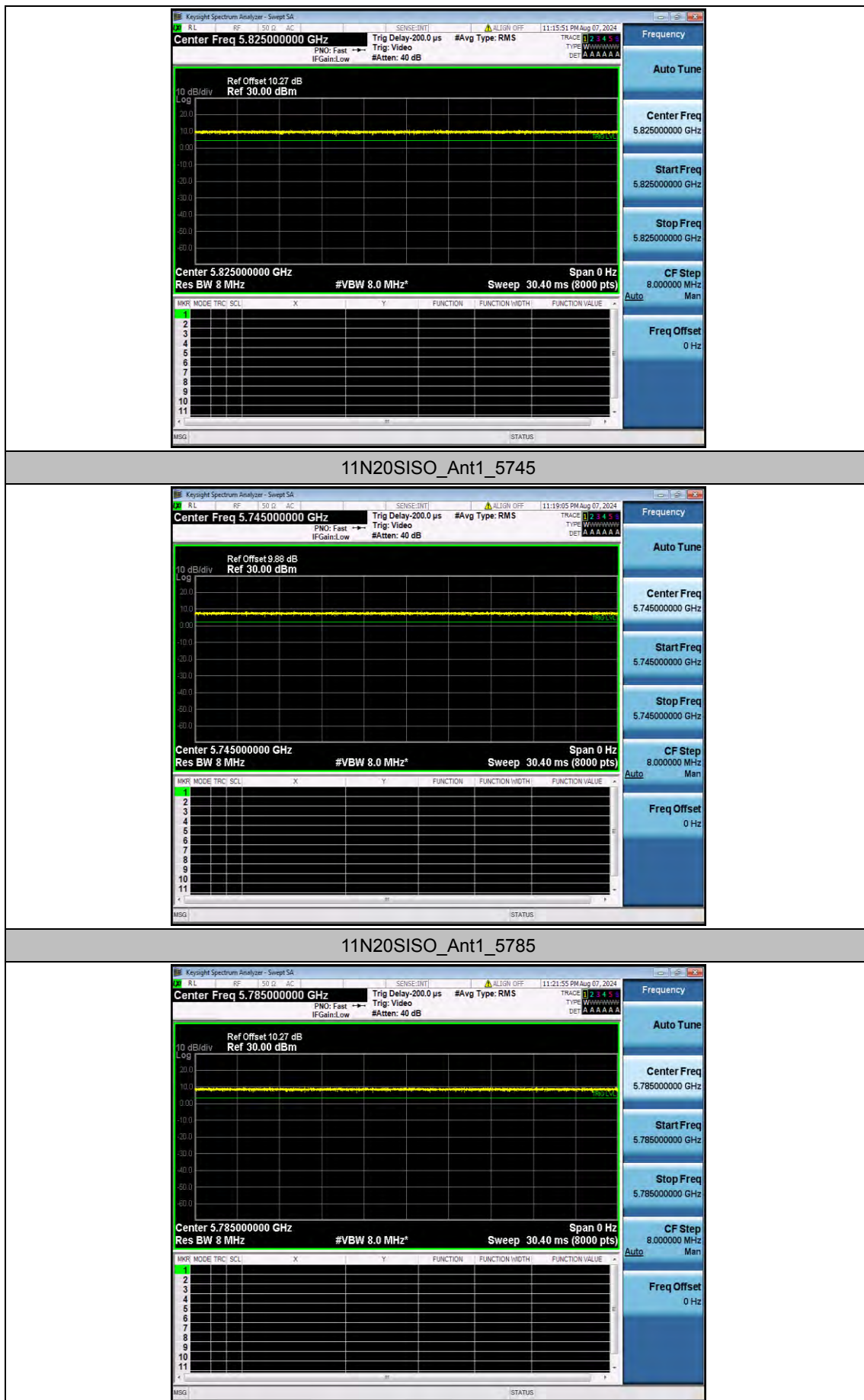
11A_Ant1_5745



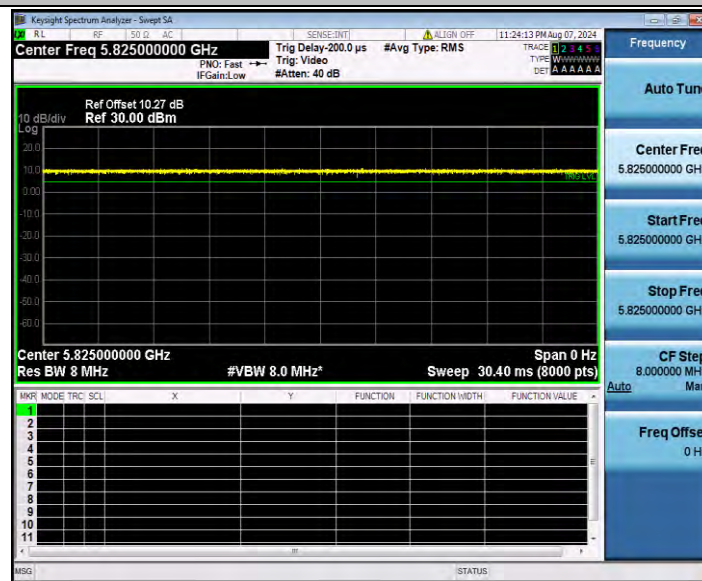
11A_Ant1_5785



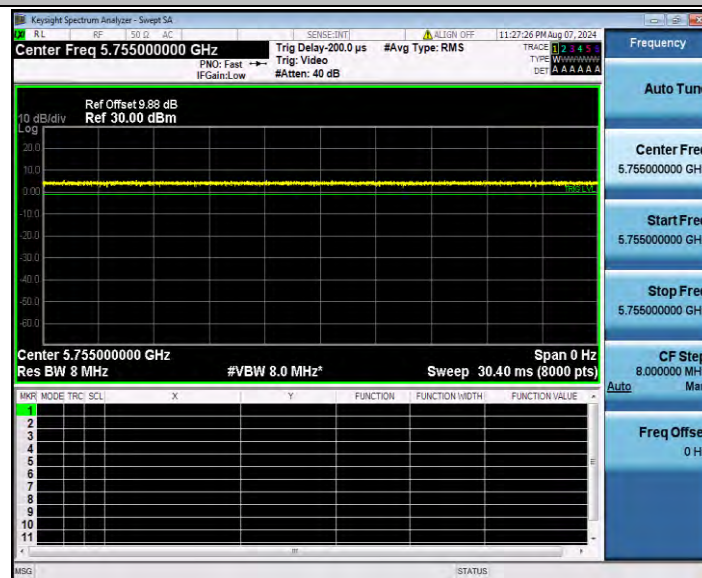
11A_Ant1_5825



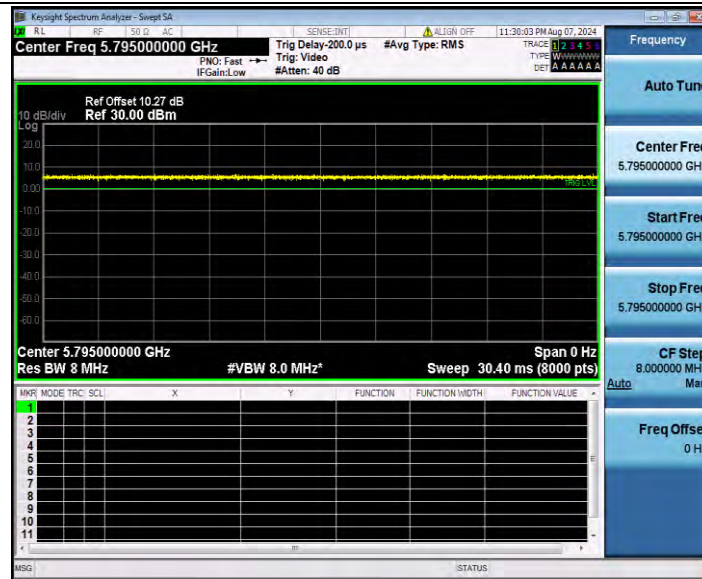
11N20SISO_Ant1_5825



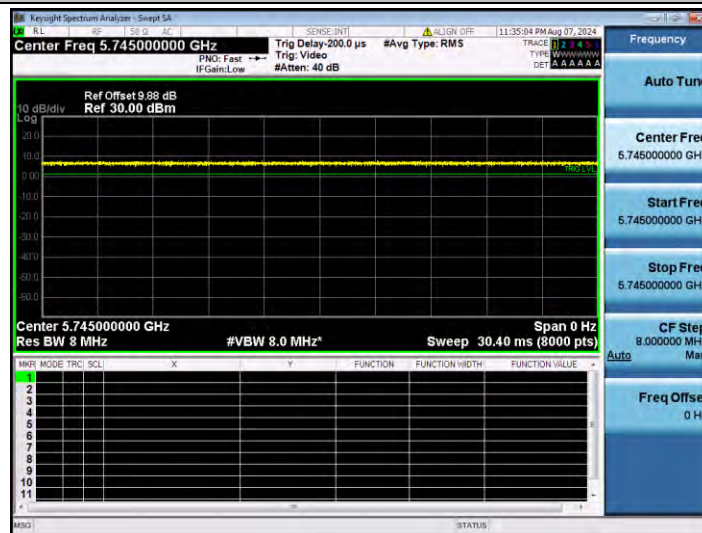
11N40SISO_Ant1_5755



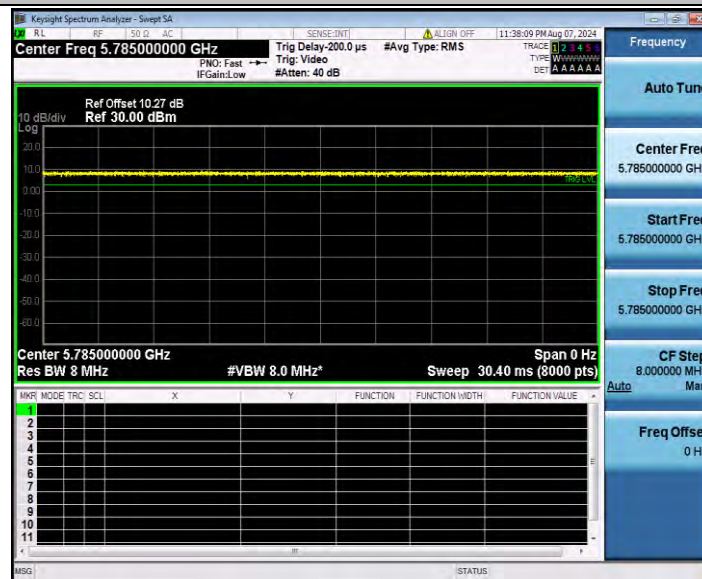
11N40SISO_Ant1_5795



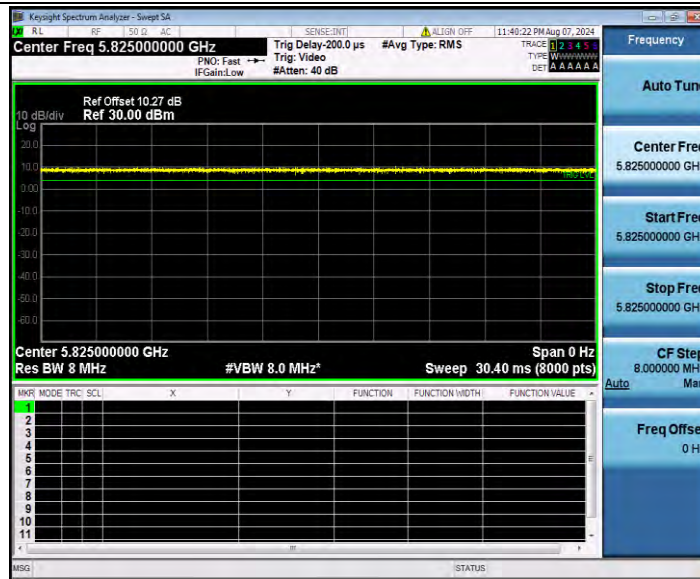
11AC20SISO_Ant1_5745



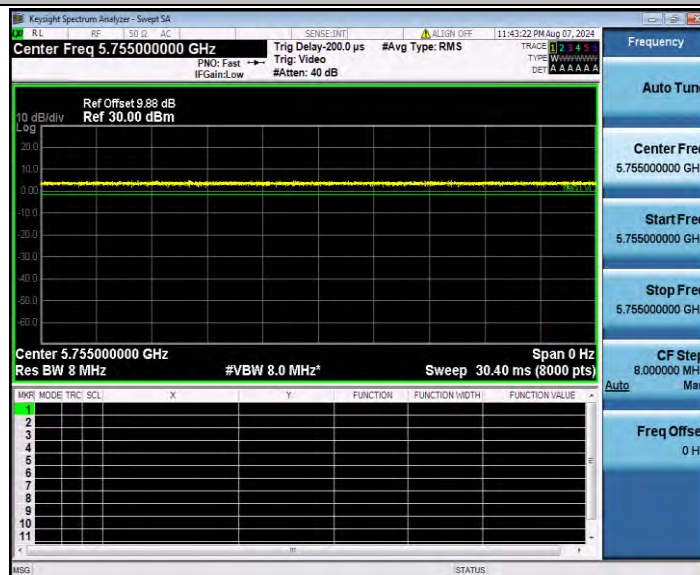
11AC20SISO_Ant1_5785



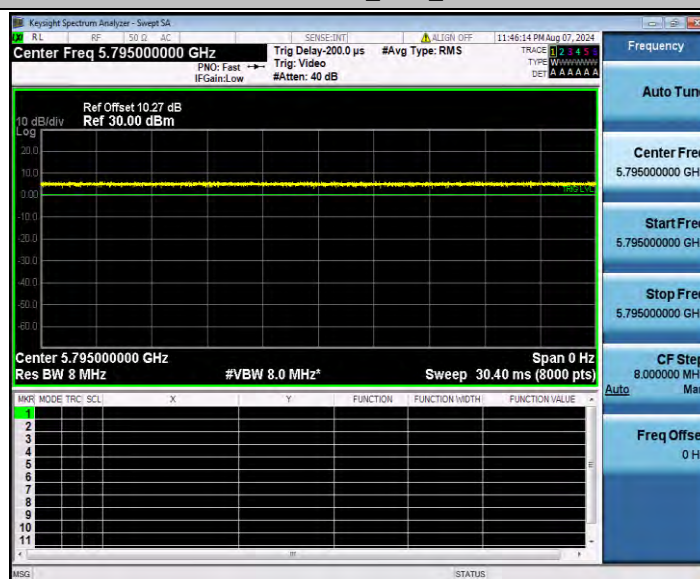
11AC20SISO_Ant1_5825

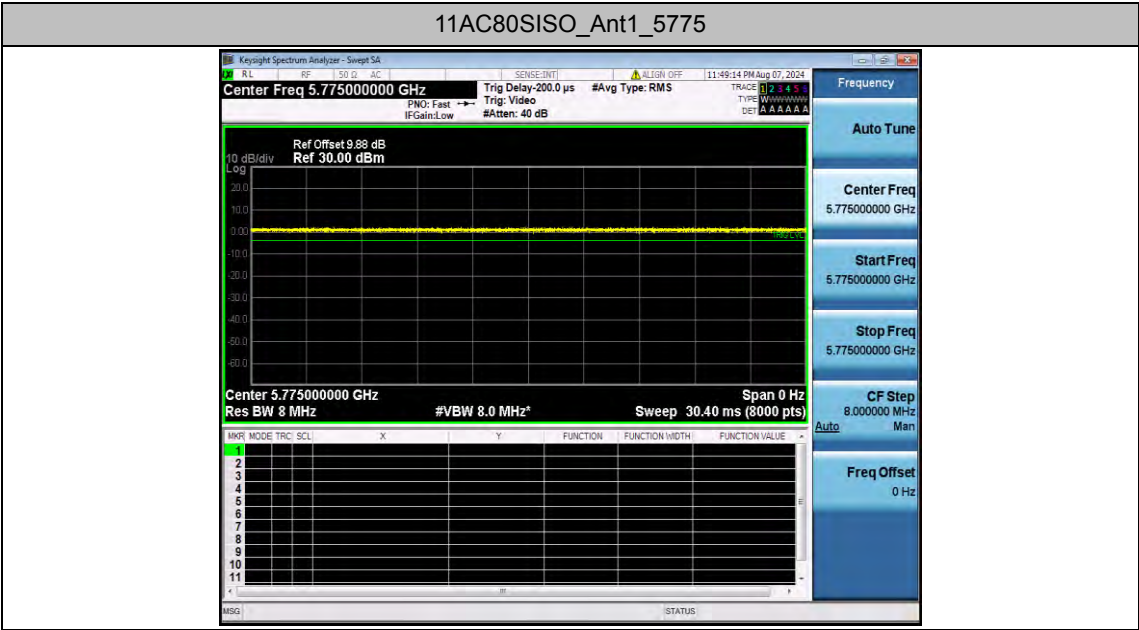


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





Appendix G.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	11.22	100.00	0.00	11.22	≤30.00	PASS
		5785	11.58	100.00	0.00	11.58	≤30.00	PASS
		5825	11.69	100.00	0.00	11.69	≤30.00	PASS
11N20SISO	Ant1	5745	11.39	100.00	0.00	11.39	≤30.00	PASS
		5785	11.28	100.00	0.00	11.28	≤30.00	PASS
		5825	12.48	100.00	0.00	12.48	≤30.00	PASS
11N40SISO	Ant1	5755	10.86	100.00	0.00	10.86	≤30.00	PASS
		5795	11.12	100.00	0.00	11.12	≤30.00	PASS
11AC20SISO	Ant1	5745	11.63	100.00	0.00	11.63	≤30.00	PASS
		5785	11.45	100.00	0.00	11.45	≤30.00	PASS
		5825	11.97	100.00	0.00	11.97	≤30.00	PASS
11AC40SISO	Ant1	5755	11.36	100.00	0.00	11.36	≤30.00	PASS
		5795	11.59	100.00	0.00	11.59	≤30.00	PASS
11AC80SISO	Ant1	5775	10.45	100.00	0.00	10.45	≤30.00	PASS

Appendix G.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-3.23	≤30.00	PASS
		5785	-2.26	≤30.00	PASS
		5825	-1.15	≤30.00	PASS
11N20SISO	Ant1	5745	-3.22	≤30.00	PASS
		5785	-2.26	≤30.00	PASS
		5825	-1.15	≤30.00	PASS
11N40SISO	Ant1	5755	-6.74	≤30.00	PASS
		5795	-5.20	≤30.00	PASS
11AC20SISO	Ant1	5745	-4.26	≤30.00	PASS
		5785	-2.71	≤30.00	PASS
		5825	-2.13	≤30.00	PASS
11AC40SISO	Ant1	5755	-7.34	≤30.00	PASS
		5795	-5.73	≤30.00	PASS
11AC80SISO	Ant1	5775	-9.81	≤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



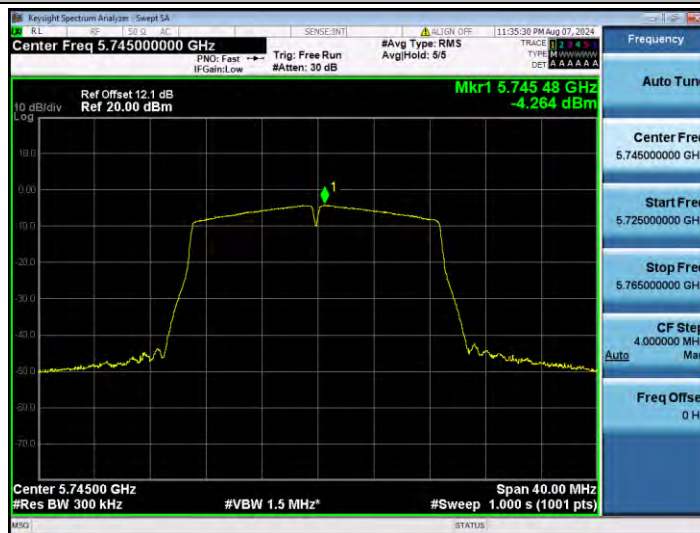
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825

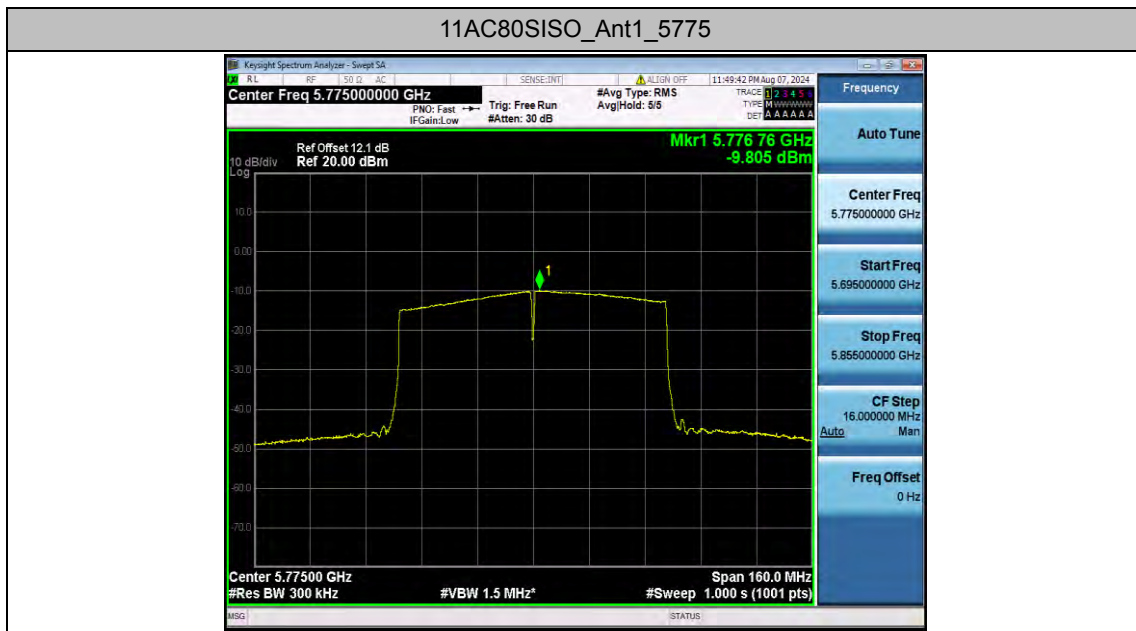


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





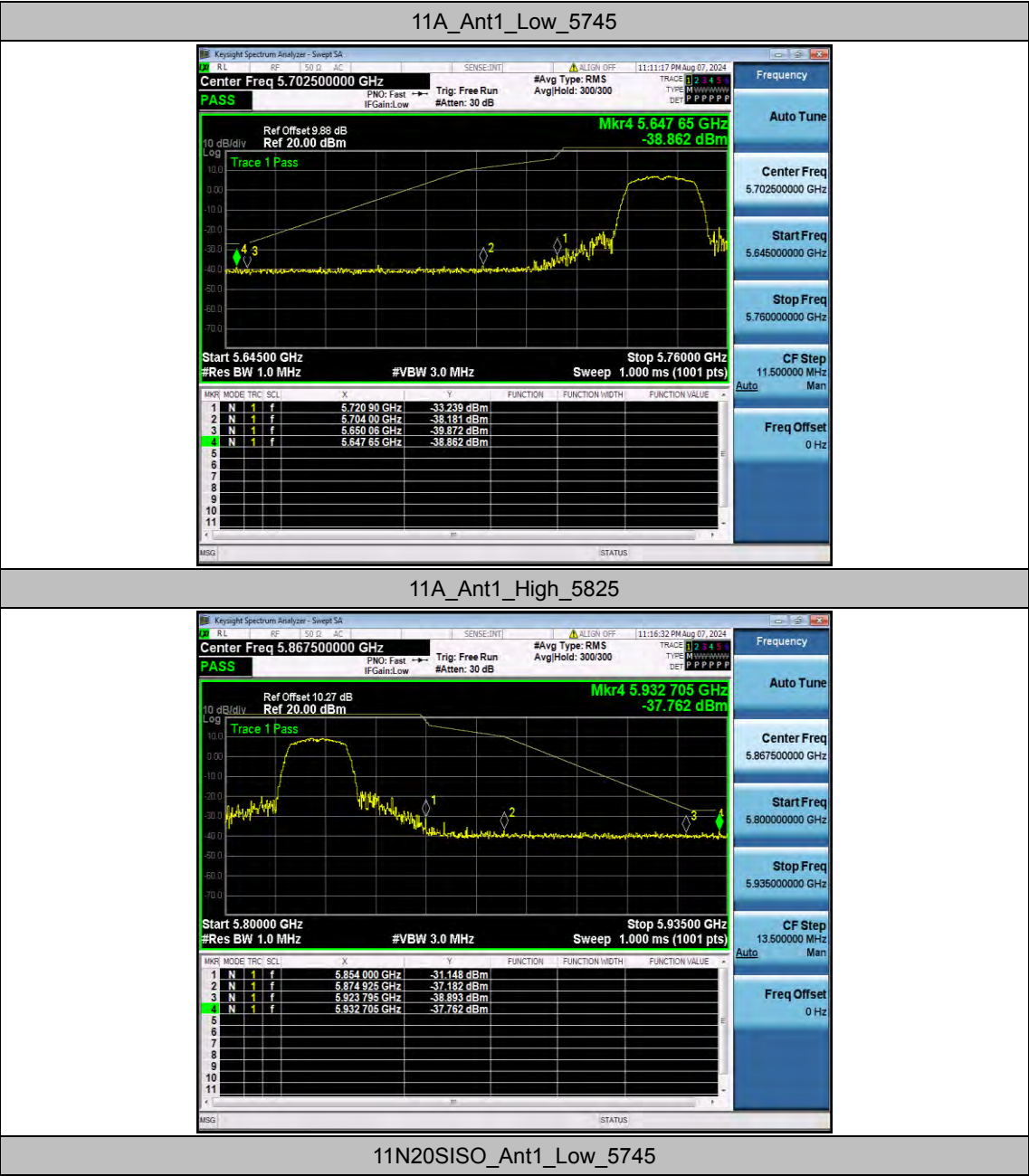
Appendix G.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-39.87	≤-26.96	PASS
				5700~5720	-38.18	≤11.12	PASS
				5720~5725	-33.24	≤17.65	PASS
				5760~5650	-38.86	≤-27	PASS
		High	5825	5850~5855	-31.15	≤17.88	PASS
				5855~5875	-37.18	≤10.02	PASS
				5875~5925	-38.89	≤-26.11	PASS
				5925~5935	-37.76	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-39.84	≤-26.27	PASS
				5700~5720	-38.39	≤10.09	PASS
				5720~5725	-33.44	≤15.82	PASS
				5760~5650	-39.8	≤-27	PASS
		High	5825	5850~5855	-37.48	≤15.73	PASS
				5855~5875	-38.62	≤10.51	PASS
				5875~5925	-39.49	≤-26.91	PASS
				5925~5935	-38.36	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-39.2	≤-25.51	PASS
				5700~5720	-29.59	≤15.43	PASS
				5720~5725	-27.22	≤20.35	PASS
				5780~5650	-38.61	≤-27	PASS
		High	5795	5850~5855	-38.35	≤16.03	PASS
				5855~5875	-38.69	≤10.25	PASS
				5875~5925	-38.44	≤-26.22	PASS
				5925~5935	-38	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-39.31	≤-26.79	PASS
				5700~5720	-32.8	≤13.82	PASS
				5720~5725	-32.79	≤19.75	PASS
				5760~5650	-39.69	≤-27	PASS
		High	5825	5850~5855	-33.67	≤18.80	PASS
				5855~5875	-38.65	≤10.17	PASS
				5875~5925	-38.08	≤-26.91	PASS
				5925~5935	-38.02	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-39.38	≤-25.80	PASS
				5700~5720	-26.11	≤15.31	PASS
				5720~5725	-29.69	≤19.74	PASS

		High	5795	5780~5650	-39.27	≤ -27	PASS
				5850~5855	-37.04	≤ 16.41	PASS
				5855~5875	-38.92	≤ 10.11	PASS
				5875~5925	-39.92	≤ -26.95	PASS
				5925~5935	-38.59	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-39.52	≤ -26.91	PASS
				5700~5720	-31.84	≤ 10.66	PASS
				5720~5725	-34.03	≤ 15.65	PASS
				5800~5650	-39.29	≤ -27	PASS
		High	5775	5850~5855	-32.08	≤ 15.84	PASS
				5855~5875	-31.99	≤ 11.69	PASS
				5875~5925	-39.75	≤ -26.32	PASS
				5925~5935	-38.97	≤ -27	PASS

Test Graphs B4





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 G.7: Conducted Spurious Emission

Test Result

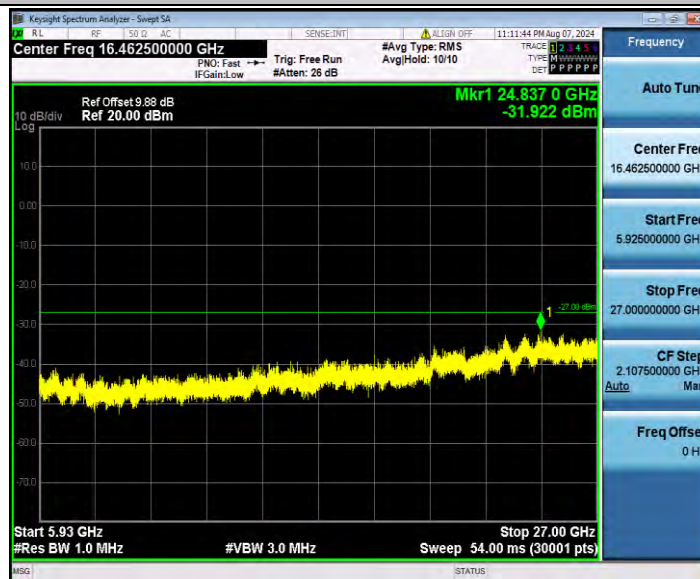
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5582.19	-40.1	≤-27	PASS
			5925~27000	24837	-31.92	≤-27	PASS
		5785	30~5650	5530.86	-39.6	≤-27	PASS
			5925~27000	24753.41	-32.09	≤-27	PASS
		5825	30~5650	5447.87	-40.36	≤-27	PASS
			5925~27000	24134.5	-31.34	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5442.62	-40.19	≤-27	PASS
			5925~27000	24178.06	-31.76	≤-27	PASS
		5785	30~5650	5463.42	-38.56	≤-27	PASS
			5925~27000	26981.03	-31.93	≤-27	PASS
		5825	30~5650	5469.22	-39.96	≤-27	PASS
			5925~27000	24832.79	-31.3	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	3096.46	-40.6	≤-27	PASS
			5925~27000	24265.87	-31.97	≤-27	PASS
		5795	30~5650	5474.28	-38.5	≤-27	PASS
			5925~27000	26867.93	-31.98	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	2642.93	-39.47	≤-27	PASS
			5925~27000	24213.18	-31.15	≤-27	PASS
		5785	30~5650	5473.72	-39.74	≤-27	PASS
			5925~27000	26644.54	-32.13	≤-27	PASS
		5825	30~5650	5560.64	-40.37	≤-27	PASS
			5925~27000	26031.25	-32.2	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5392.04	-40.68	≤-27	PASS
			5925~27000	23495.93	-31.96	≤-27	PASS
		5795	30~5650	3194.06	-40.17	≤-27	PASS
			5925~27000	24227.94	-31.18	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	3199.87	-41.02	≤-27	PASS
			5925~27000	23490.31	-31.98	≤-27	PASS

Test Graphs

11A_Ant1_5745_30~5650



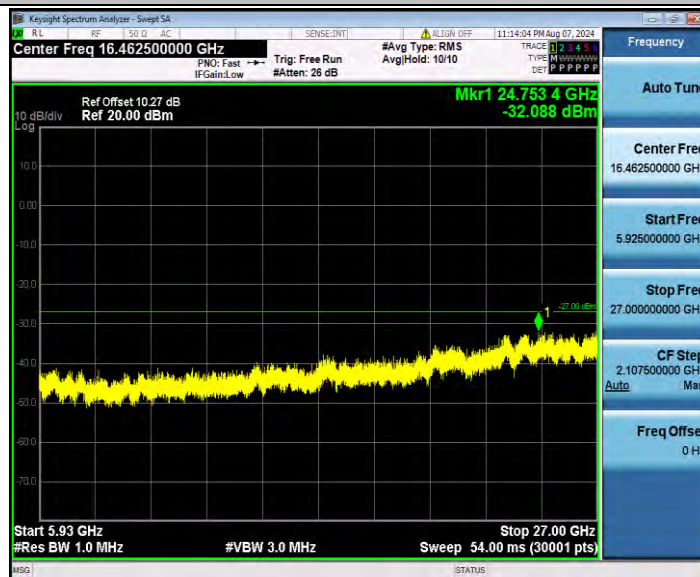
11A_Ant1_5745_5925~27000



11A_Ant1_5785_30~5650



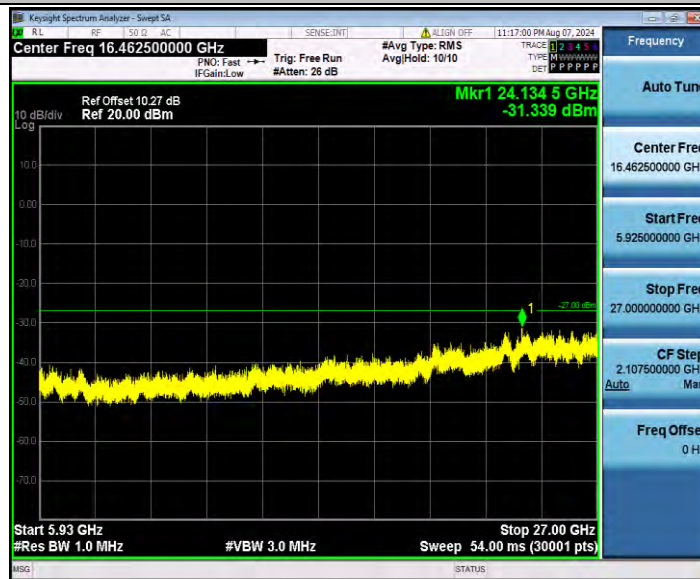
11A_Ant1_5785_5925~27000



11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~27000



11N20SISO_Ant1_5745_30~5650



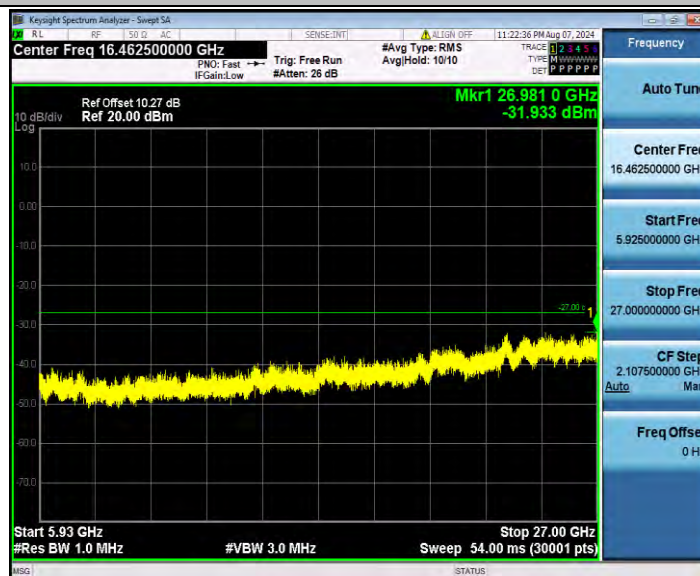
11N20SISO_Ant1_5745_5925~27000



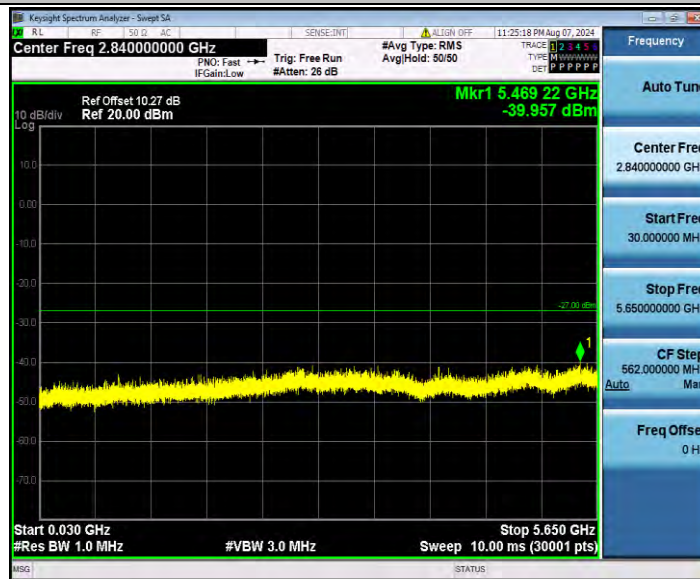
11N20SISO_Ant1_5785_30~5650



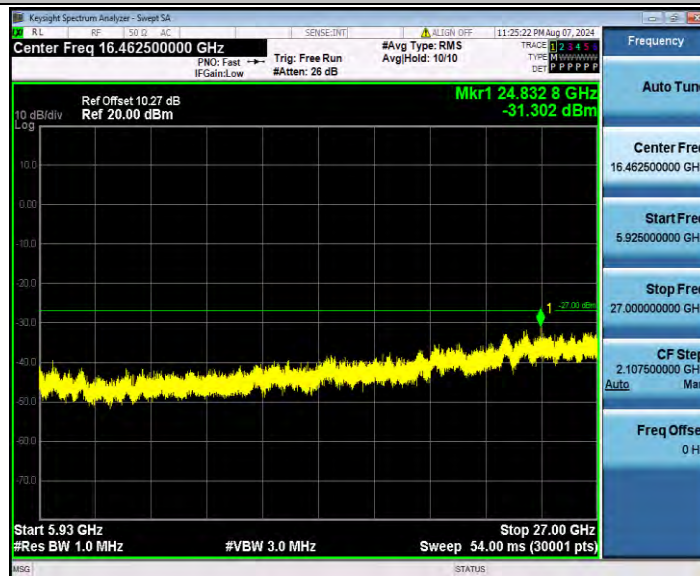
11N20SISO_Ant1_5785_5925~27000



11N20SISO_Ant1_5825_30~5650



11N20SISO_Ant1_5825_5925~27000



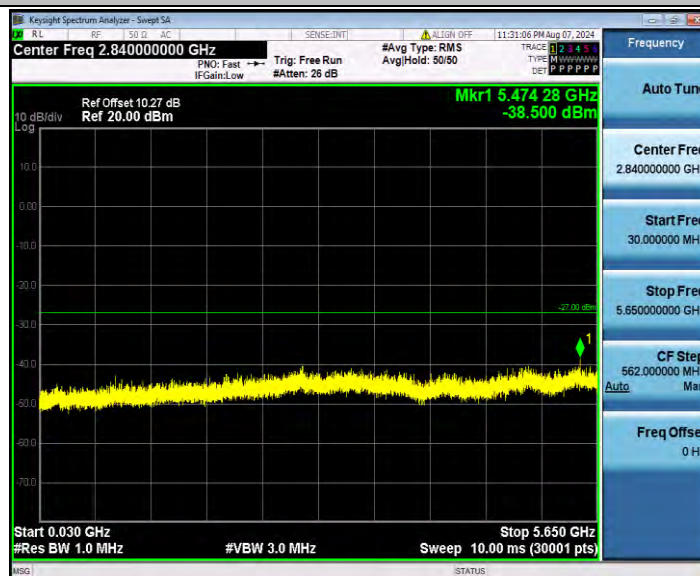
11N40SISO_Ant1_5755_30~5650



11N40SISO_Ant1_5755_5925~27000



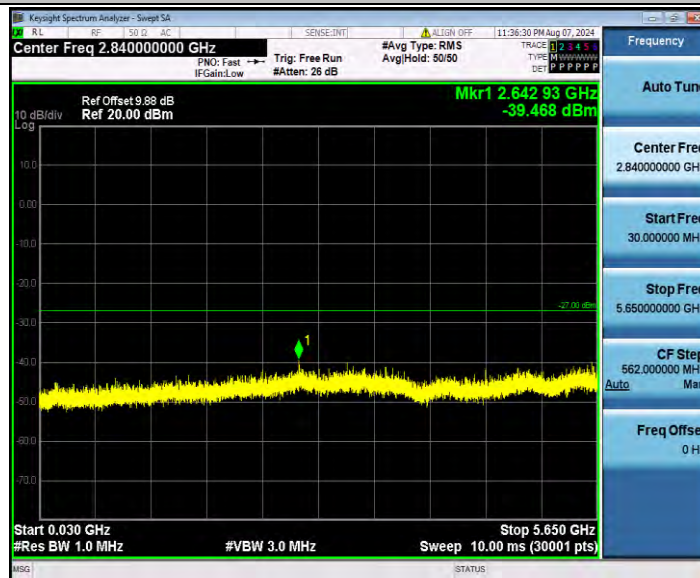
11N40SISO_Ant1_5795_30~5650



11N40SISO_Ant1_5795_5925~27000



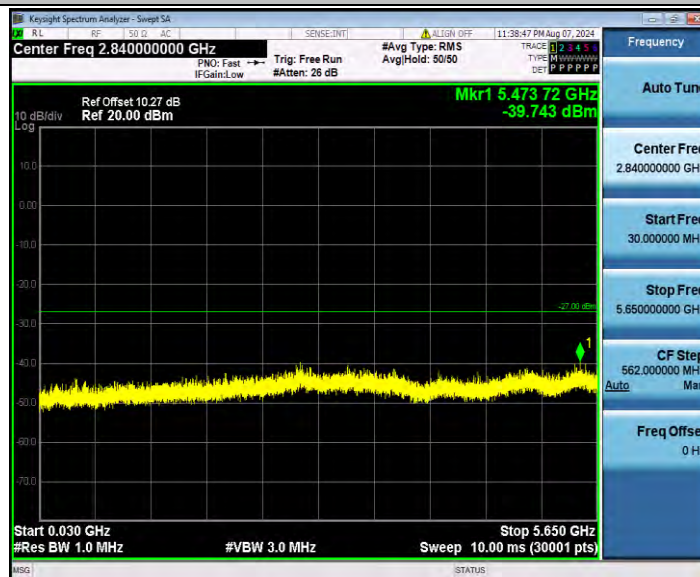
11AC20SISO_Ant1_5745_30~5650



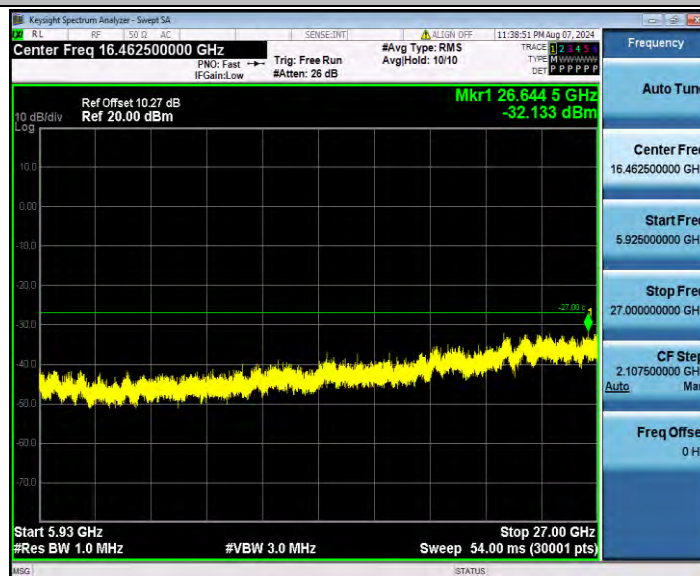
11AC20SISO_Ant1_5745_5925~27000



11AC20SISO_Ant1_5785_30~5650



11AC20SISO_Ant1_5785_5925~27000



11AC20SISO_Ant1_5825_30~5650



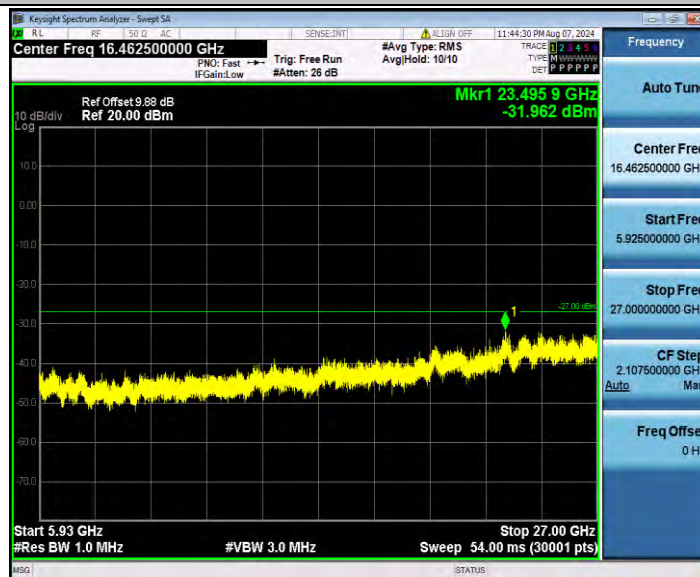
11AC20SISO_Ant1_5825_5925~27000



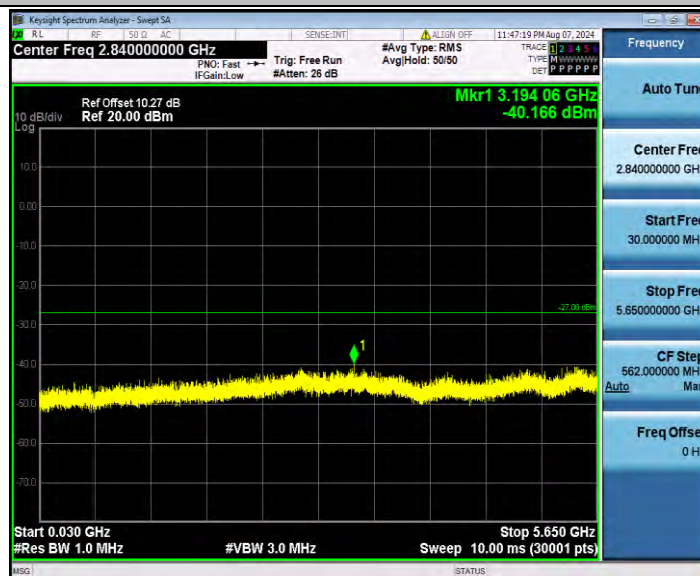
11AC40SISO_Ant1_5755_30~5650



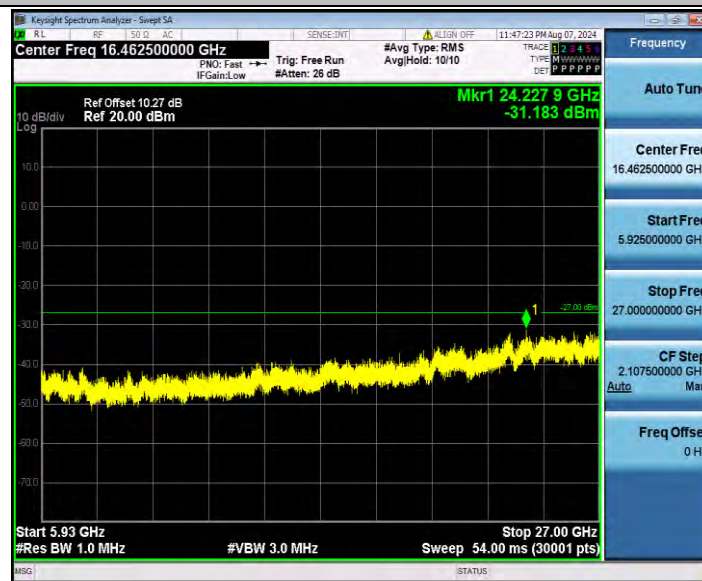
11AC40SISO_Ant1_5755_5925~27000



11AC40SISO_Ant1_5795_30~5650



11AC40SISO_Ant1_5795_5925~27000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~27000



Appendix G.8: Emissions in Restricted Bands

Test Result

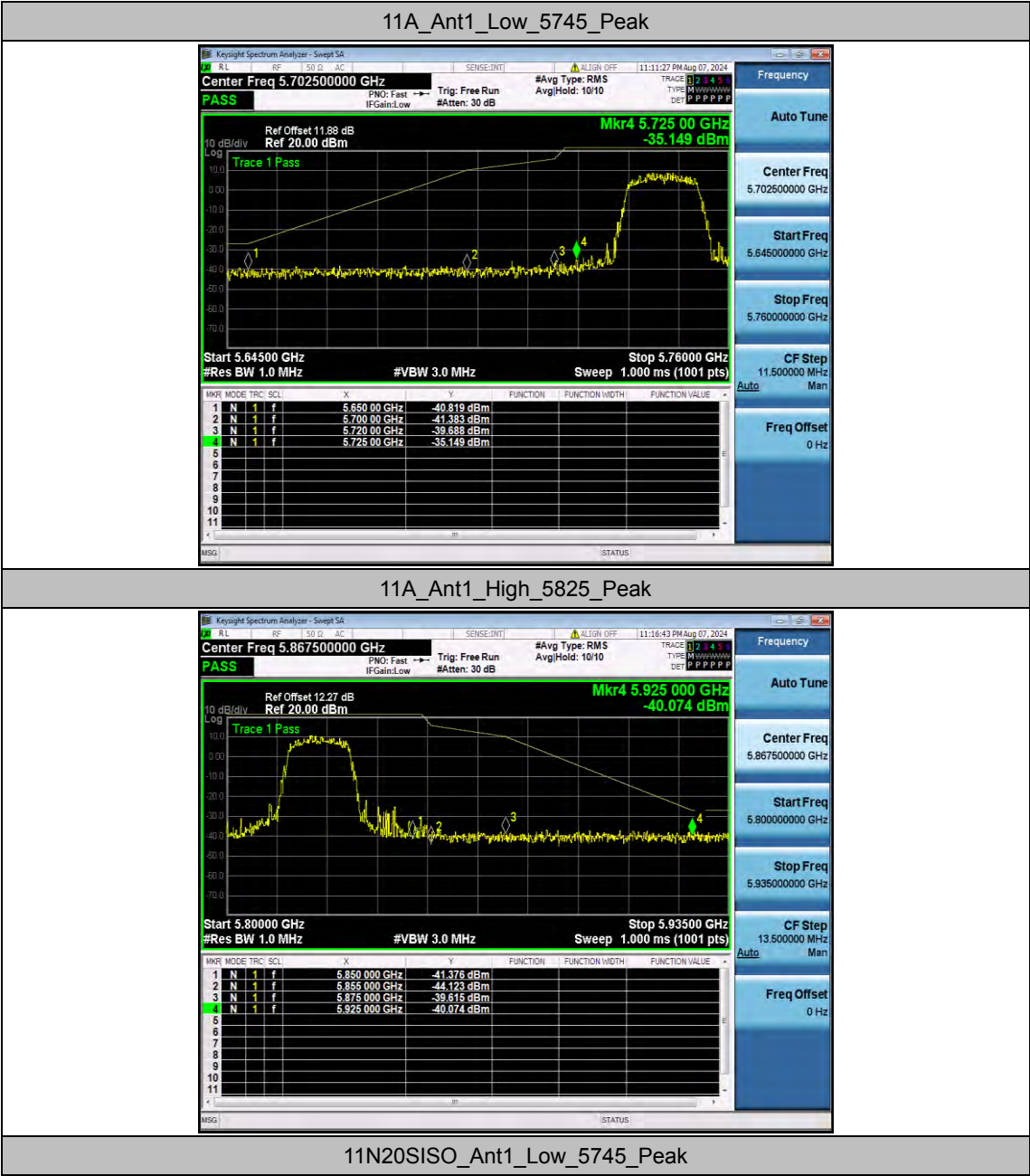
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-40.819	≤-27.00	---	---	PASS
				Peak	5700.000	-41.38	≤10.00	---	---	PASS
				Peak	5720.000	-39.69	≤15.60	---	---	PASS
				Peak	5725.000	-35.15	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-41.376	≤27.00	---	---	PASS
				Peak	5855.000	-44.12	≤15.60	---	---	PASS
				Peak	5875.000	-39.62	≤10.00	---	---	PASS
				Peak	5925.000	-40.07	≤-27.00	---	---	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-43.045	≤-27.00	---	---	PASS
				Peak	5700.000	-43.91	≤10.00	---	---	PASS
				Peak	5720.000	-40.21	≤15.60	---	---	PASS
				Peak	5725.000	-41.16	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-38.856	≤27.00	---	---	PASS
				Peak	5855.000	-40.65	≤15.60	---	---	PASS
				Peak	5875.000	-40.42	≤10.00	---	---	PASS
				Peak	5925.000	-40.5	≤-27.00	---	---	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-44.038	≤-27.00	---	---	PASS
				Peak	5700.000	-42.13	≤10.00	---	---	PASS
				Peak	5720.000	-34.72	≤15.60	---	---	PASS
				Peak	5725.000	-37.86	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-39.668	≤27.00	---	---	PASS
				Peak	5855.000	-40.76	≤15.60	---	---	PASS
				Peak	5875.000	-39.31	≤10.00	---	---	PASS
				Peak	5925.000	-42.13	≤-27.00	---	---	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-41.716	≤-27.00	---	---	PASS
				Peak	5700.000	-41.19	≤10.00	---	---	PASS
				Peak	5720.000	-43.71	≤15.60	---	---	PASS
				Peak	5725.000	-39.59	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-40.418	≤27.00	---	---	PASS

				Peak	5855.000	-40.16	≤ 15.60	---	---	PASS
				Peak	5875.000	-38.65	≤ 10.00	---	---	PASS
				Peak	5925.000	-44.9	≤ -27.00	---	---	PASS
11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-39.44 6	≤ -27.00	---	---	PASS
				Peak	5700.000	-41.47	≤ 10.00	---	---	PASS
				Peak	5720.000	-39.66	≤ 15.60	---	---	PASS
				Peak	5725.000	-36.92	≤ 27.00	---	---	PASS
		High	5795	Peak	5850.000	-39.74 2	≤ 27.00	---	---	PASS
				Peak	5855.000	-37.09	≤ 15.60	---	---	PASS
				Peak	5875.000	-39.98	≤ 10.00	---	---	PASS
				Peak	5925.000	-41.66	≤ -27.00	---	---	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-42.35 9	≤ -27.00	---	---	PASS
				Peak	5700.000	-36.89	≤ 10.00	---	---	PASS
				Peak	5720.000	-36.3	≤ 15.60	---	---	PASS
				Peak	5725.000	-28.59	≤ 27.00	---	---	PASS
		High	5775	Peak	5850.000	-36.89 2	≤ 27.00	---	---	PASS
				Peak	5855.000	-35.31	≤ 15.60	---	---	PASS
				Peak	5875.000	-39.36	≤ 10.00	---	---	PASS
				Peak	5925.000	-40.99	≤ -27.00	---	---	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs



11A_Ant1_High_5825_Peak

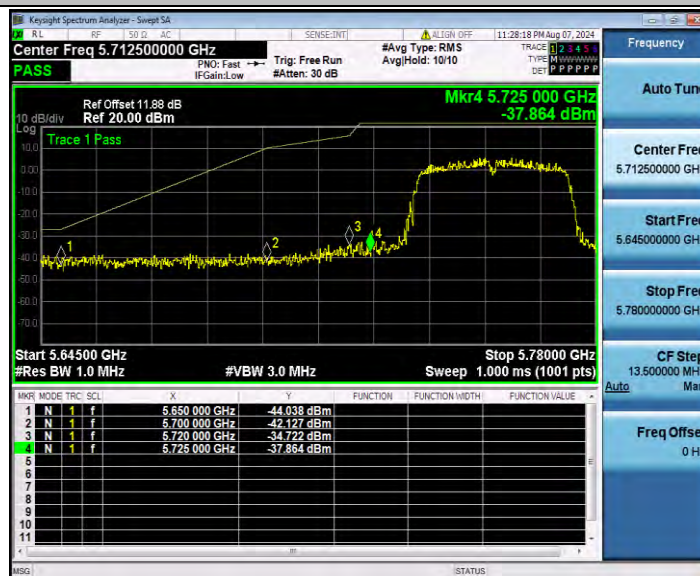
11N20SISO_Ant1_Low_5745_Peak



11N20SISO_Ant1_High_5825_Peak



11N40SISO_Ant1_Low_5755_Peak



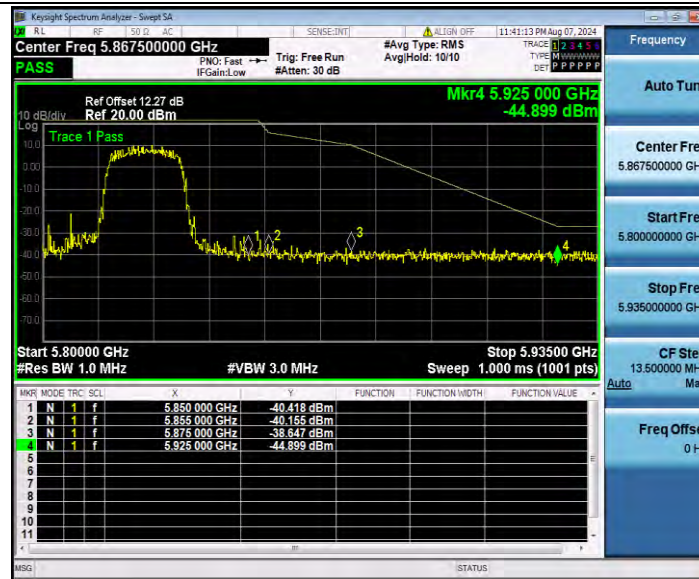
11N40SISO_Ant1_High_5795_Peak



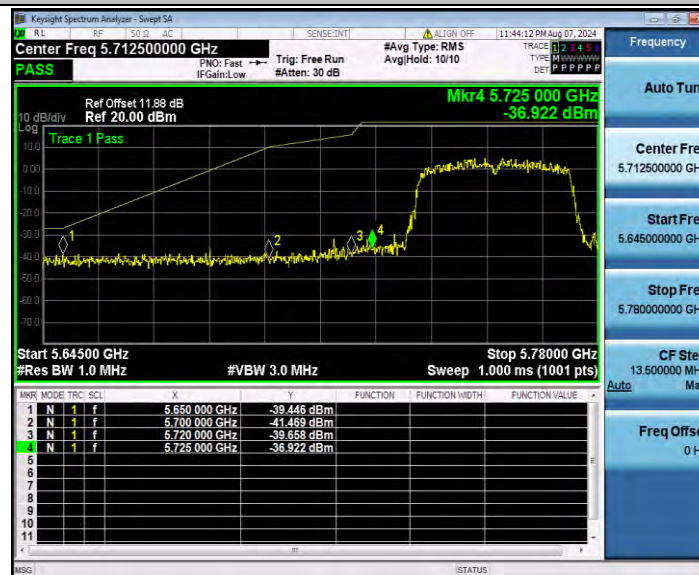
11AC20SISO_Ant1_Low_5745_Peak



11AC20SISO_Ant1_High_5825_Peak



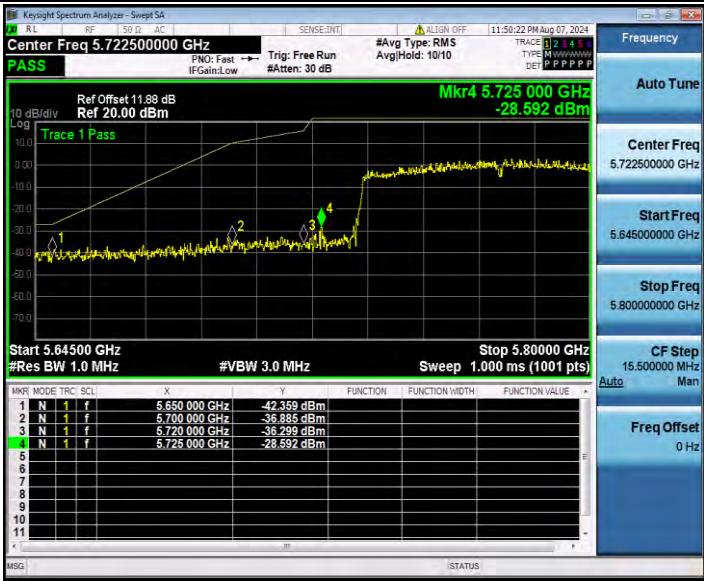
11AC40SISO_Ant1_Low_5755_Peak



11AC40SISO_Ant1_High_5795_Peak



11AC80SISO_Ant1_Low_5775_Peak



11AC80SISO_Ant1_High_5775_Peak

