

Case No. : <u>CTA24081600604</u>	
Ambient Condition: <u>22</u> °C, <u>52</u> %RH	
According Standard: ■PART 15E	
Test Date: <u>2024.8.13</u>	Test Engineer: <u>Lushan Kong</u>

Appendix E.1: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.040	5777.440	5792.480	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11N20SISO	Ant2	5745	15.040	5737.440	5752.480	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11N40SISO	Ant2	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	33.840	5778.680	5812.520	0.5	PASS
11AC20SISO	Ant2	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.040	5777.400	5792.440	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

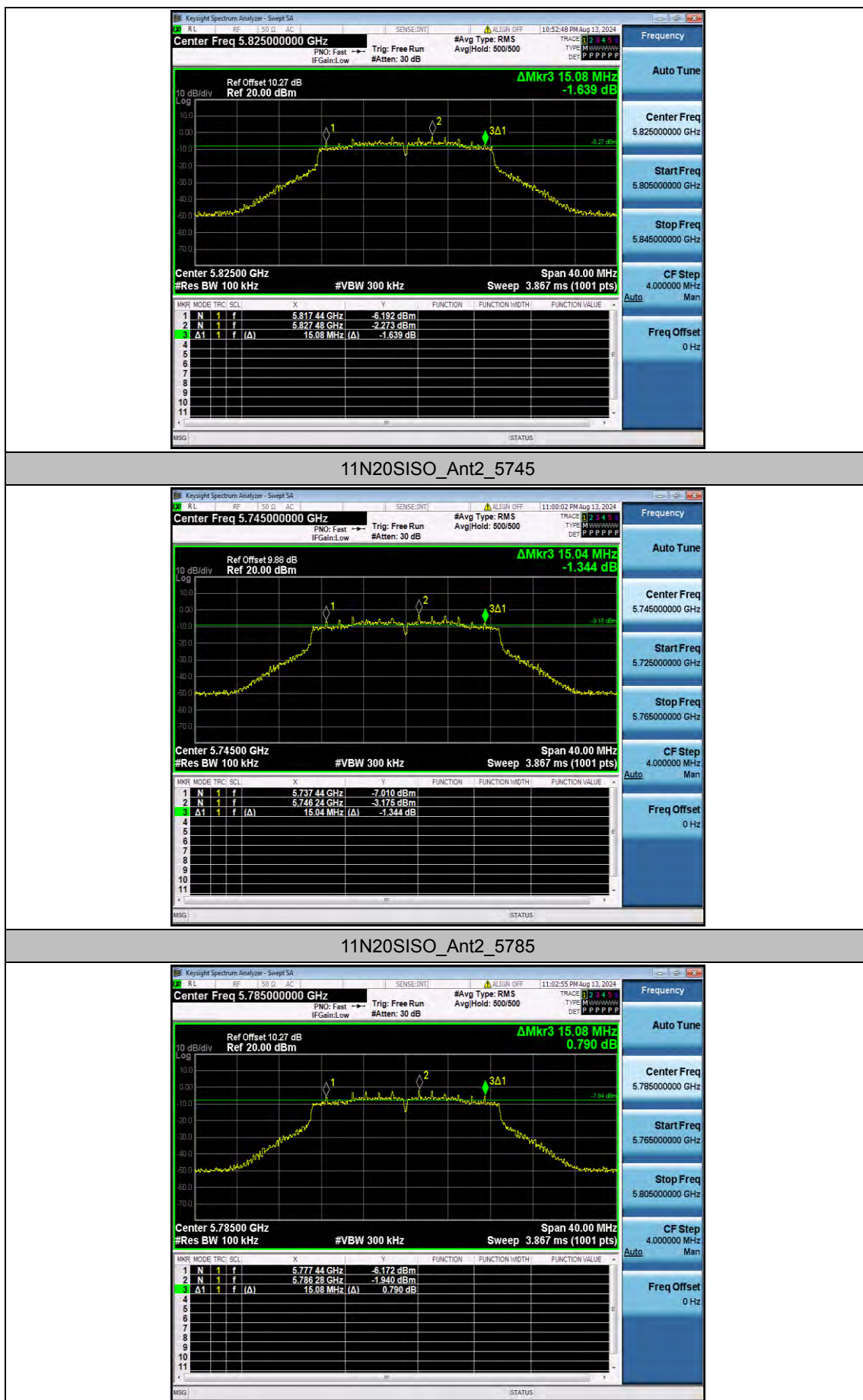
11A_Ant2_5745



11A_Ant2_5785



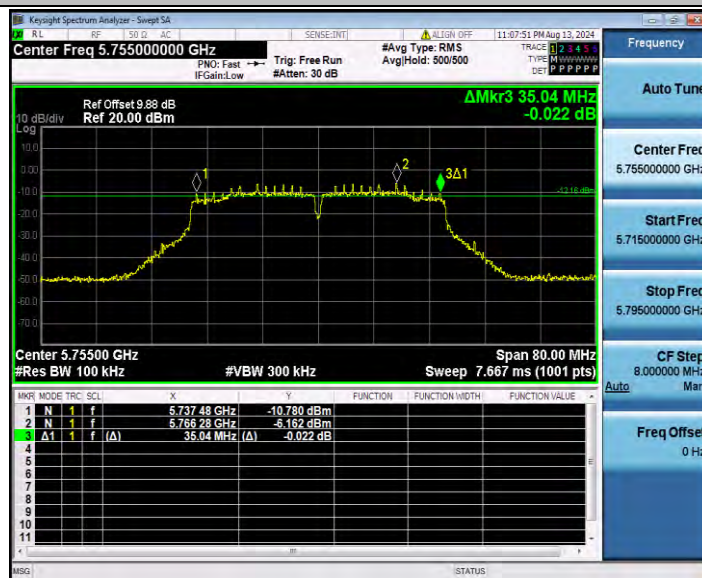
11A_Ant2_5825



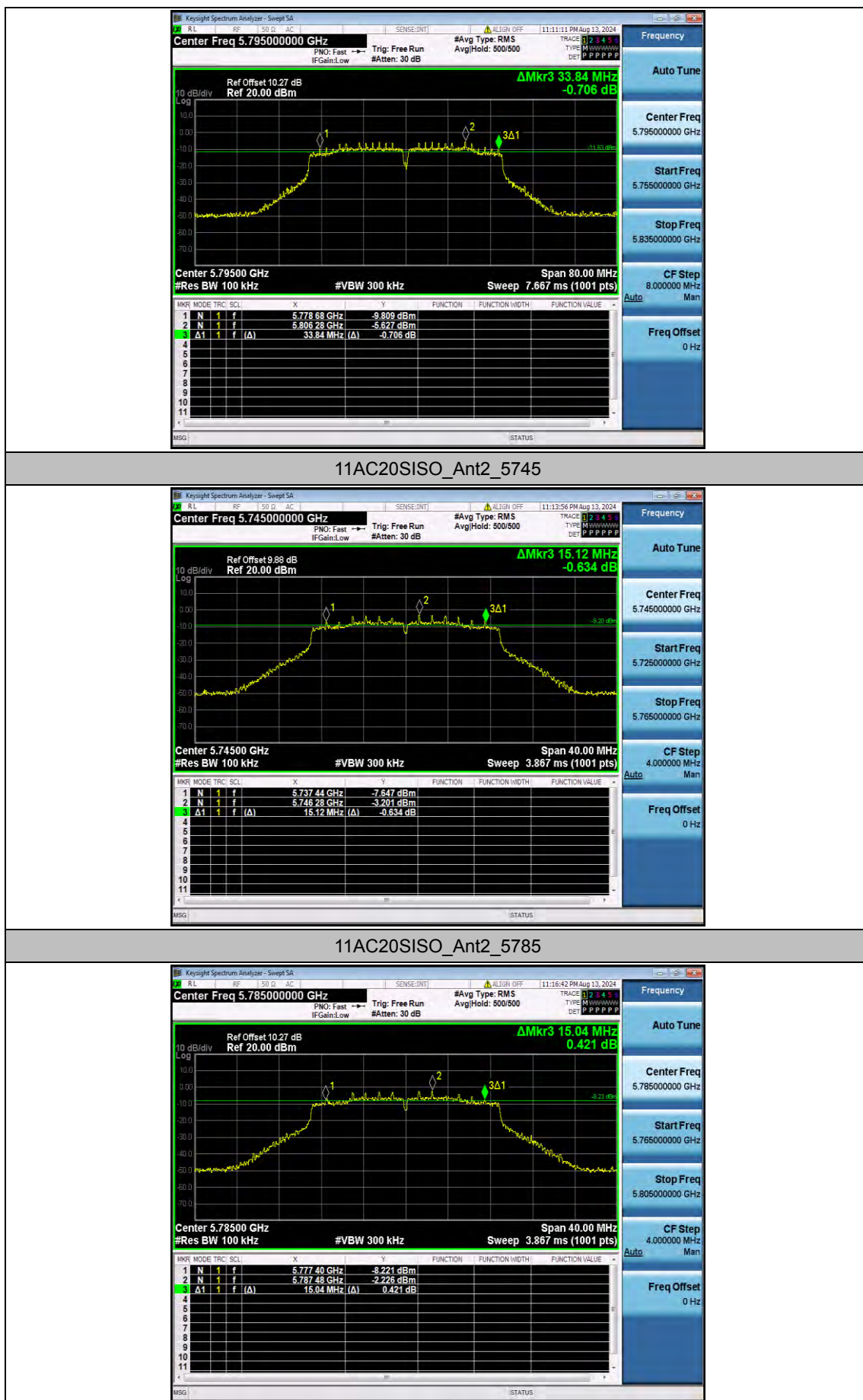
11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



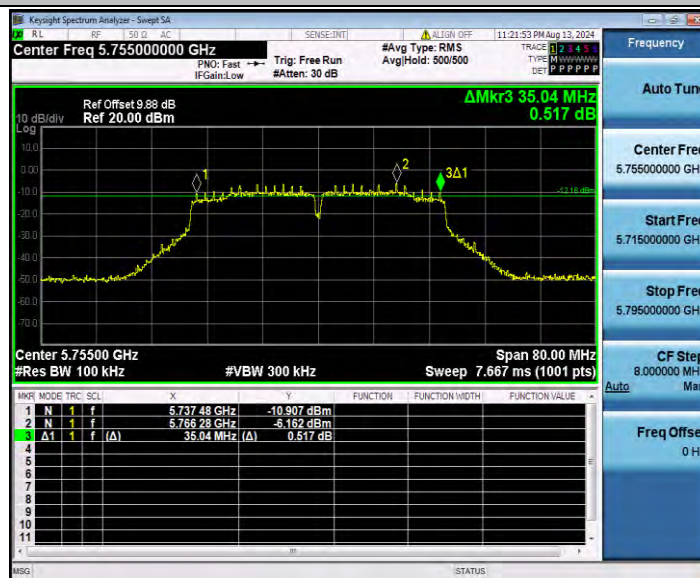
11N40SISO_Ant2_5795



11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



Appendix E.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5745	17.008	5736.4845	5753.4925	---	---
		5785	17.008	5776.5157	5793.5237	---	---
		5825	17.024	5816.5440	5833.5680	---	---
11N20SISO	Ant2	5745	18.033	5735.9693	5754.0023	---	---
		5785	18.022	5776.0024	5794.0244	---	---
		5825	17.987	5816.0483	5834.0353	---	---
11N40SISO	Ant2	5755	36.287	5736.8799	5773.1669	---	---
		5795	36.285	5776.9444	5813.2294	---	---
11AC20SISO	Ant2	5745	18.042	5735.9819	5754.0239	---	---
		5785	18.012	5775.9898	5794.0018	---	---
		5825	18.014	5816.0088	5834.0228	---	---
11AC40SISO	Ant2	5755	36.304	5736.8675	5773.1715	---	---
		5795	36.249	5776.9014	5813.1504	---	---
11AC80SISO	Ant2	5775	75.084	5737.5553	5812.6393	---	---

Test Graphs

11A_Ant2_5745



11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



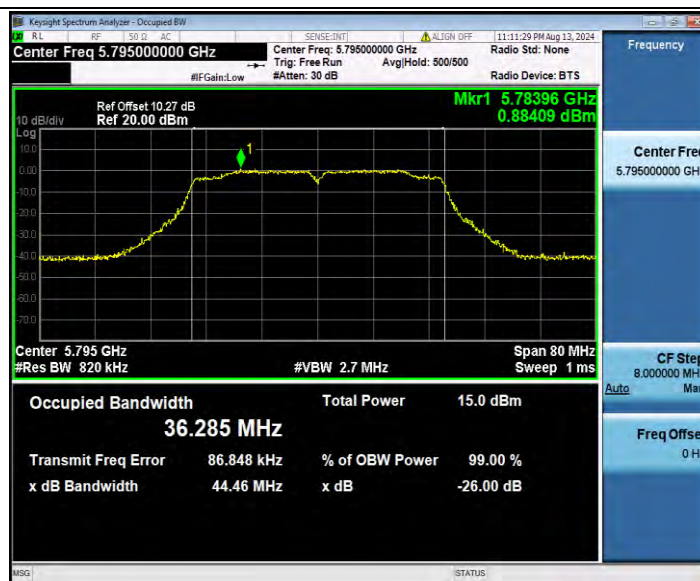
11N20SISO_Ant2_5825



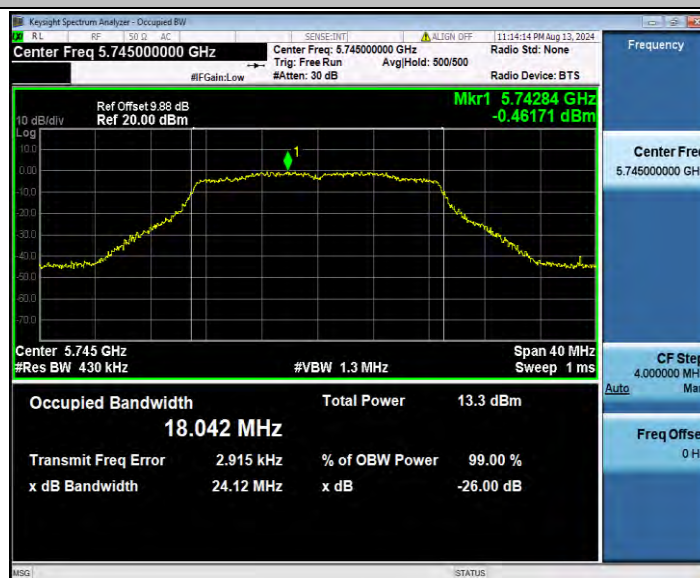
11N40SISO_Ant2_5755



11N40SISO_Ant2_5795



11AC20SISO_Ant2_5745



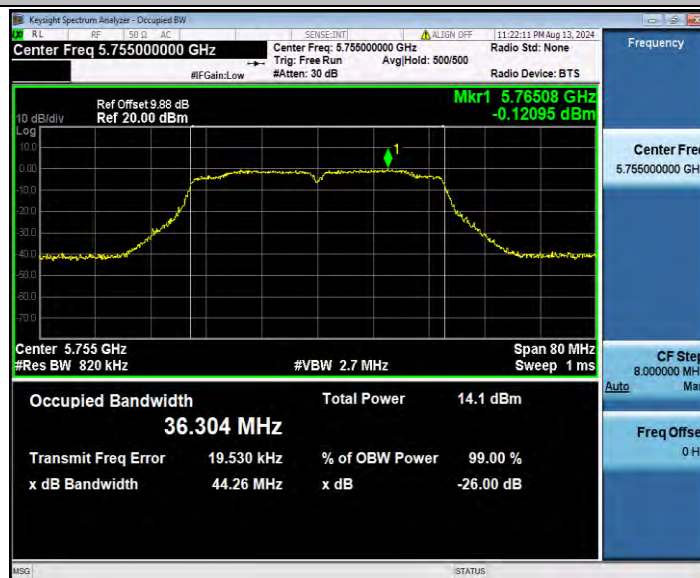
11AC20SISO_Ant2_5785



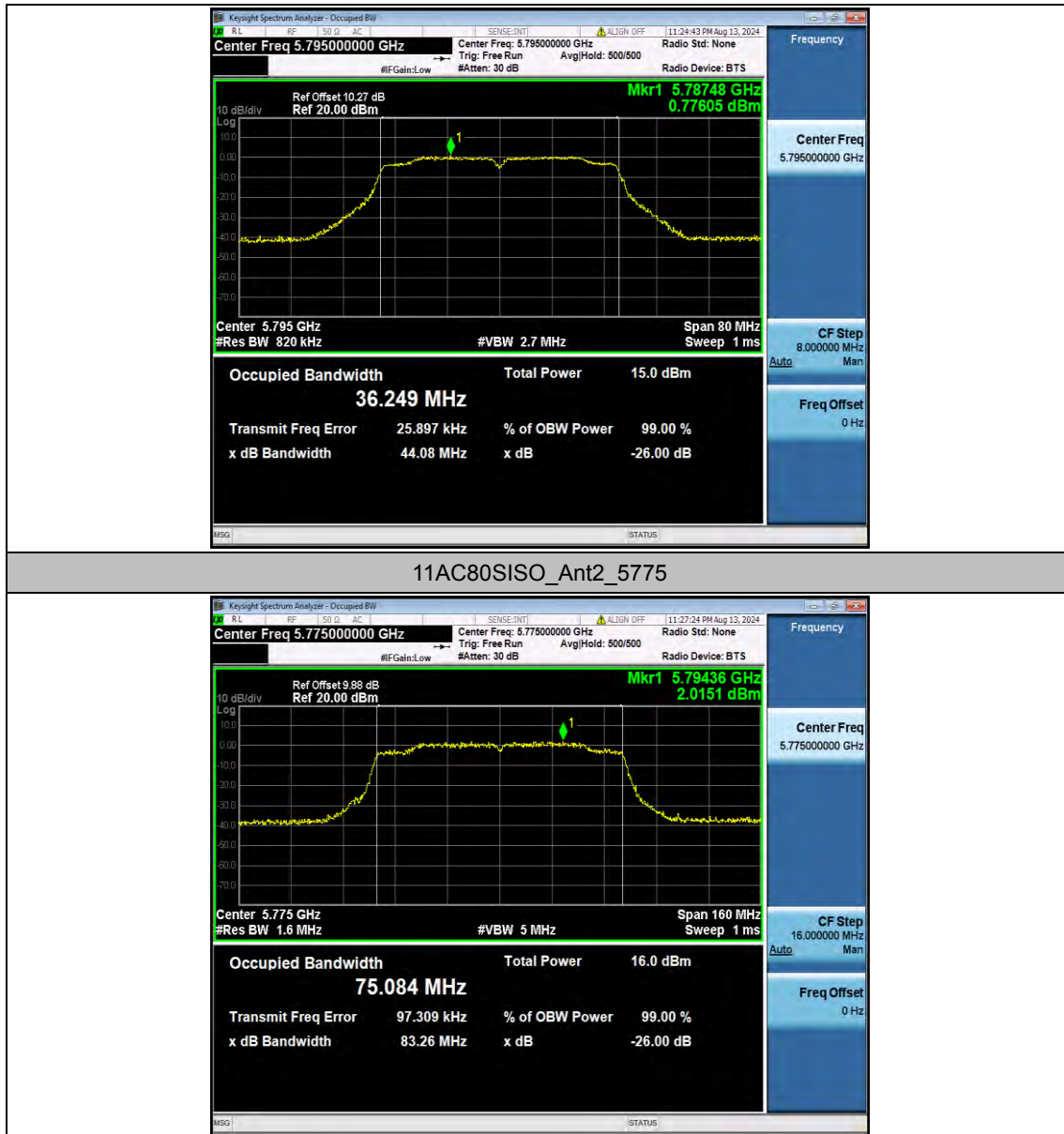
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



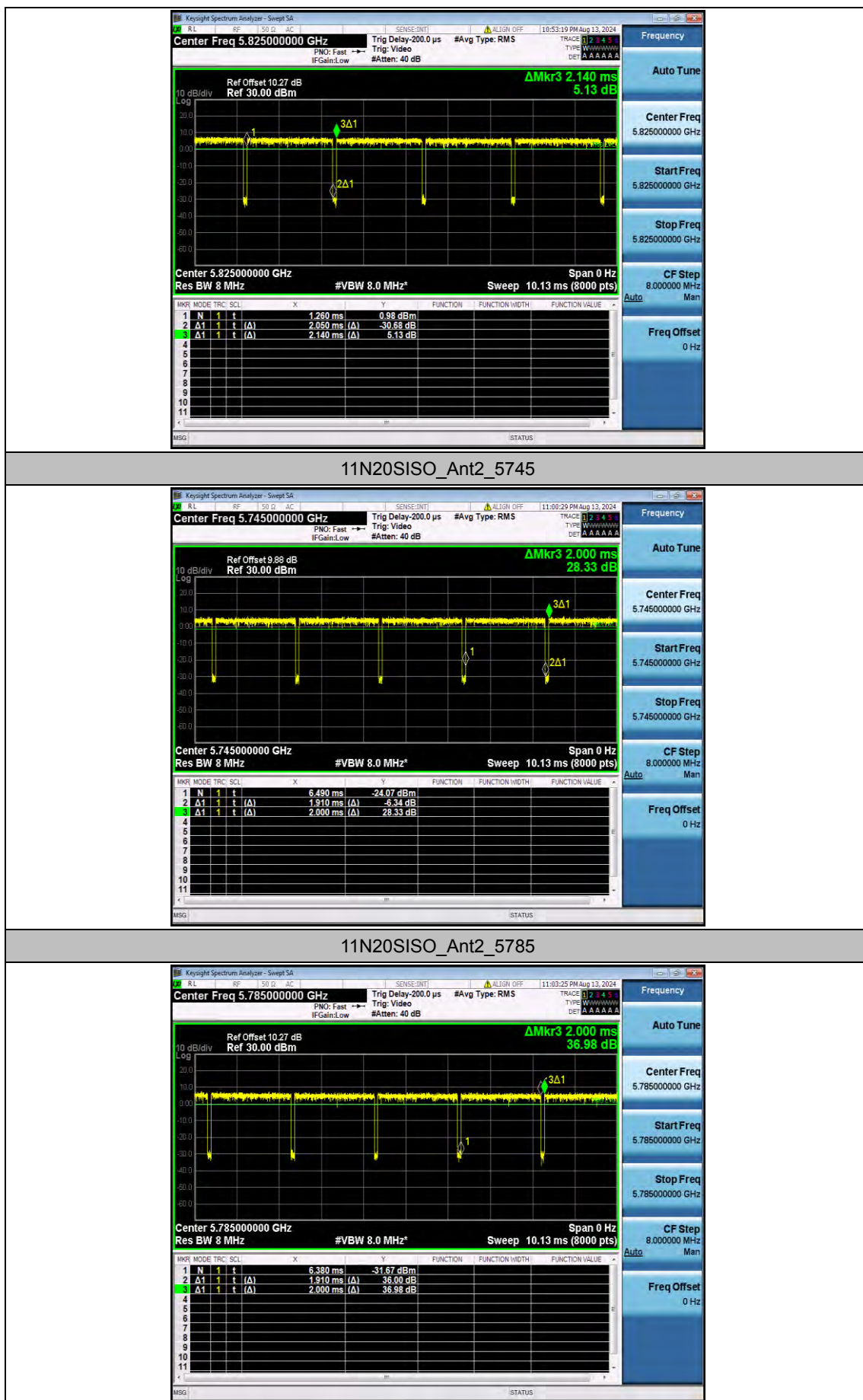
11AC40SISO_Ant2_5795



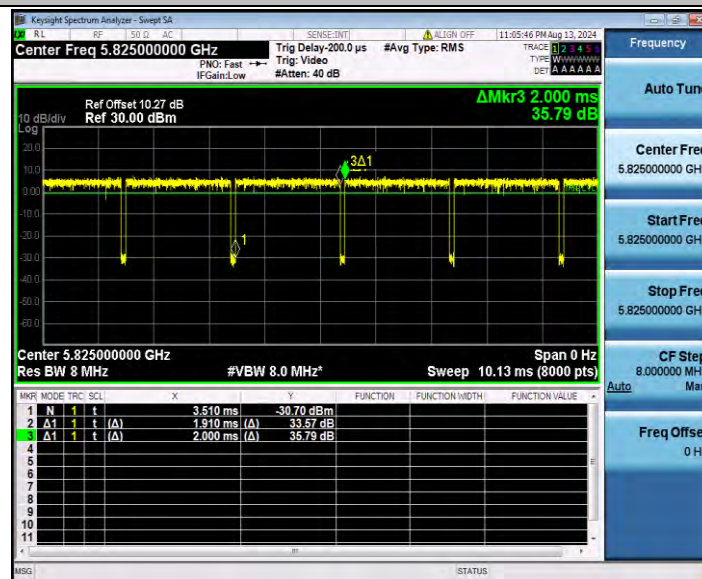
Appendix E.3: Duty Cycle

Test Result

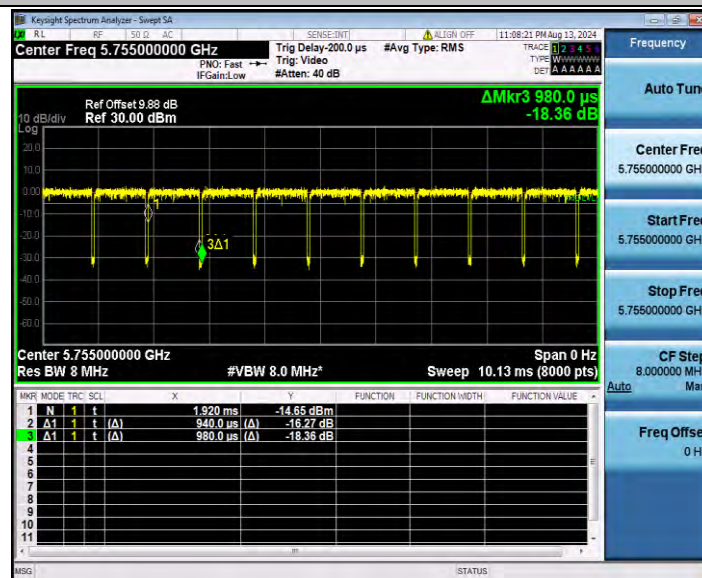
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant2	5745	2.05	2.14	95.79	0.19	0.49
		5785	2.05	2.14	95.79	0.19	0.49
		5825	2.05	2.14	95.79	0.19	0.49
11N20SISO	Ant2	5745	1.91	2.00	95.50	0.20	0.52
		5785	1.91	2.00	95.50	0.20	0.52
		5825	1.91	2.00	95.50	0.20	0.52
11N40SISO	Ant2	5755	0.94	0.98	95.92	0.18	1.06
		5795	0.94	0.98	95.92	0.18	1.06
11AC20SISO	Ant2	5745	1.91	2.00	95.50	0.20	0.52
		5785	1.92	2.00	96.00	0.18	0.52
		5825	1.92	2.01	95.52	0.20	0.52
11AC40SISO	Ant2	5755	0.94	0.98	95.92	0.18	1.06
		5795	0.94	0.99	94.95	0.23	1.06
11AC80SISO	Ant2	5775	0.46	0.50	92.00	0.36	2.17



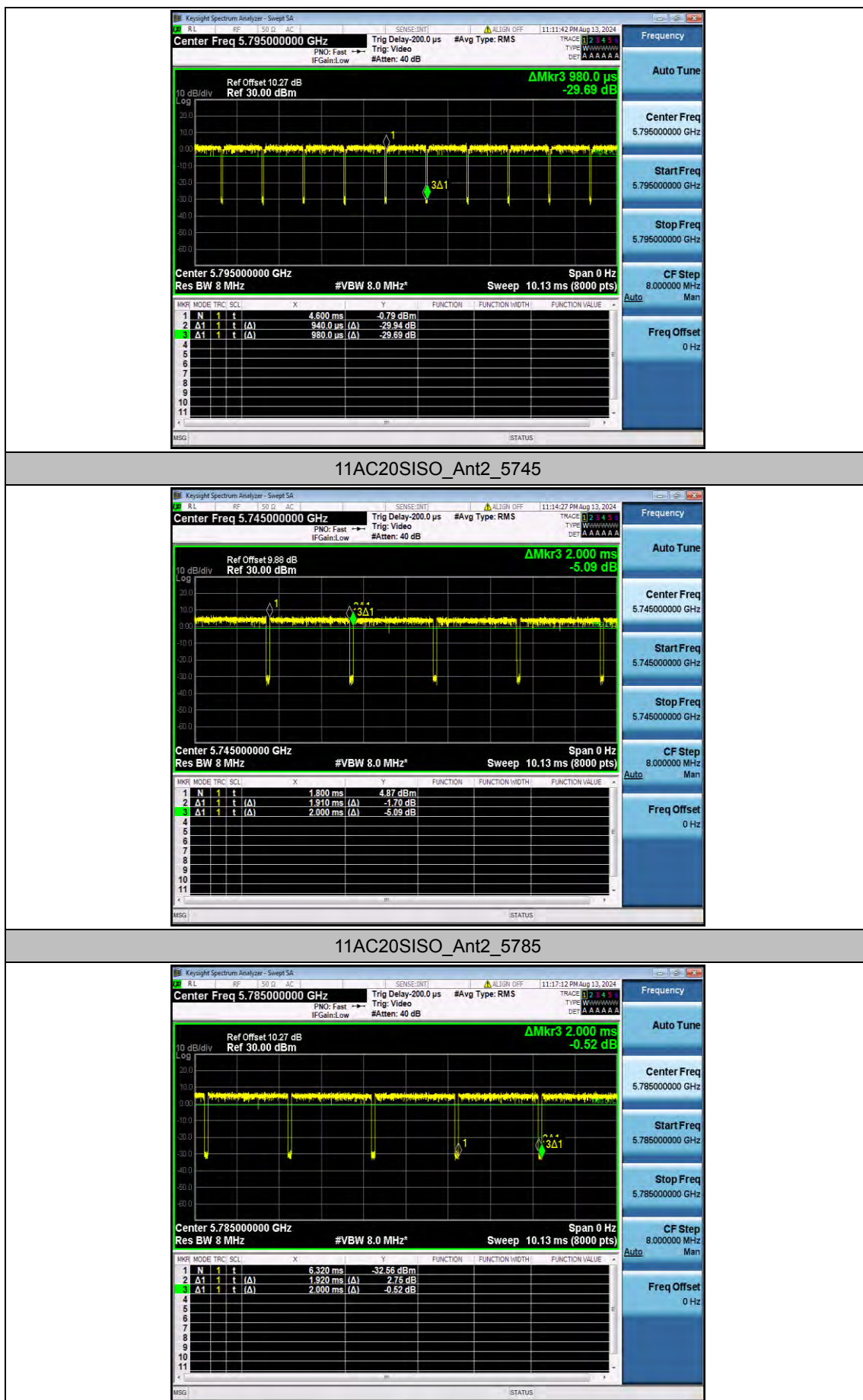
11N20SISO_Ant2_5825



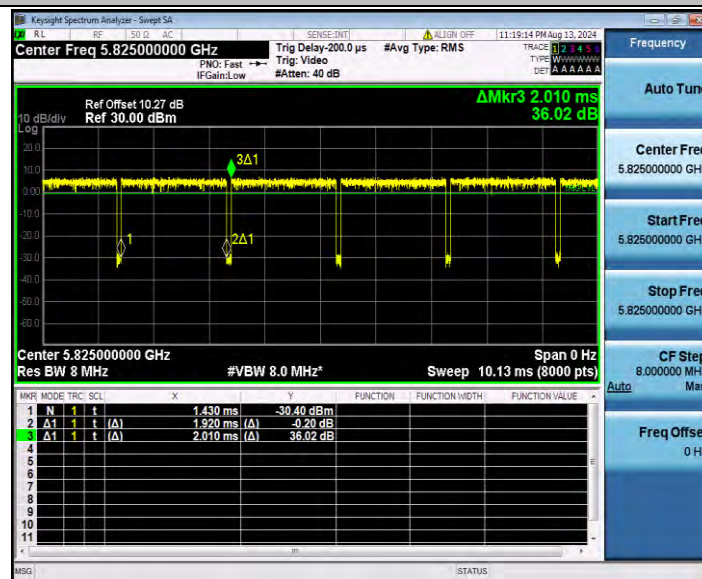
11N40SISO_Ant2_5755



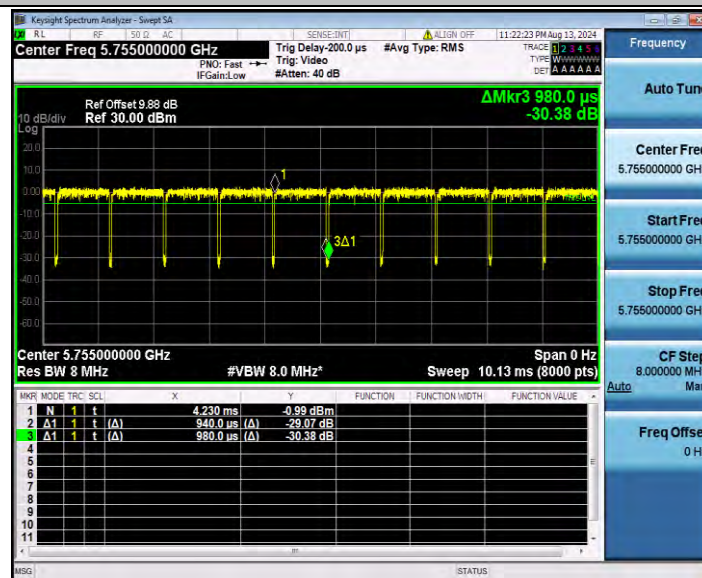
11N40SISO_Ant2_5795



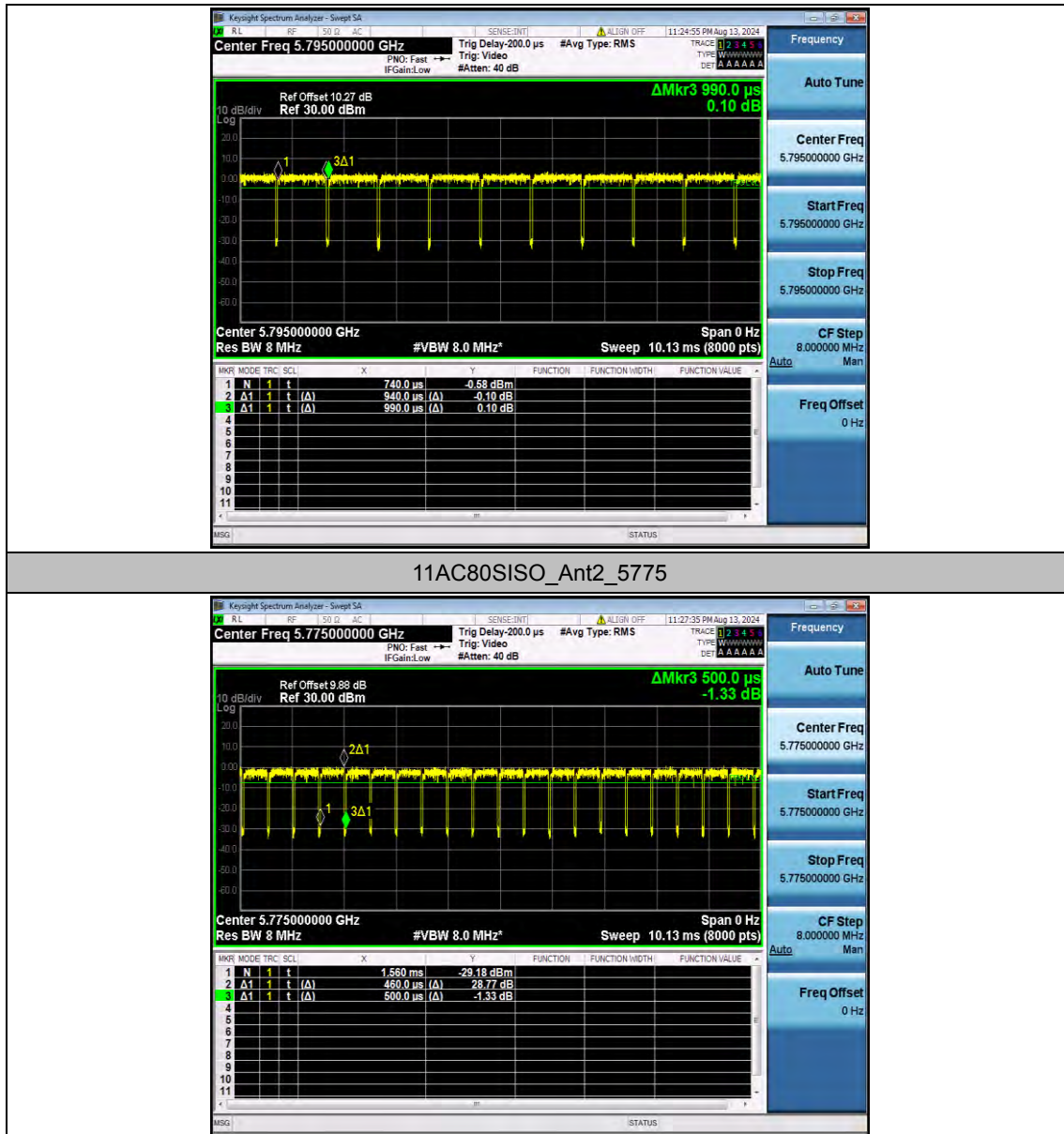
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



Appendix E.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	Ant2	5745	6.57	95.79	0.19	6.76	≤30.00	PASS
		5785	7.46	95.79	0.19	7.65	≤30.00	PASS
		5825	7.36	95.79	0.19	7.55	≤30.00	PASS
11N20SISO	Ant2	5745	6.23	95.50	0.20	6.43	≤30.00	PASS
		5785	7.19	95.50	0.20	7.39	≤30.00	PASS
		5825	6.97	95.50	0.20	7.17	≤30.00	PASS
11N40SISO	Ant2	5755	6.27	95.92	0.18	6.45	≤30.00	PASS
		5795	7.07	95.92	0.18	7.25	≤30.00	PASS
11AC20SISO	Ant2	5745	6.31	95.50	0.20	6.51	≤30.00	PASS
		5785	7.21	96.00	0.18	7.39	≤30.00	PASS
		5825	7.05	95.52	0.20	7.25	≤30.00	PASS
11AC40SISO	Ant2	5755	6.23	95.92	0.18	6.41	≤30.00	PASS
		5795	7.06	94.95	0.23	7.29	≤30.00	PASS
11AC80SISO	Ant2	5775	6.85	92.00	0.36	7.21	≤30.00	PASS

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5745	-6.94	≤30.00	PASS
		5785	-6.14	≤30.00	PASS
		5825	-6.16	≤30.00	PASS
11N20SISO	Ant2	5745	-7.38	≤30.00	PASS
		5785	-6.40	≤30.00	PASS
		5825	-6.40	≤30.00	PASS
11N40SISO	Ant2	5755	-10.49	≤30.00	PASS
		5795	-9.55	≤30.00	PASS
11AC20SISO	Ant2	5745	-7.27	≤30.00	PASS
		5785	-6.31	≤30.00	PASS
		5825	-6.28	≤30.00	PASS
11AC40SISO	Ant2	5755	-10.53	≤30.00	PASS
		5795	-9.58	≤30.00	PASS
11AC80SISO	Ant2	5775	-12.81	≤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

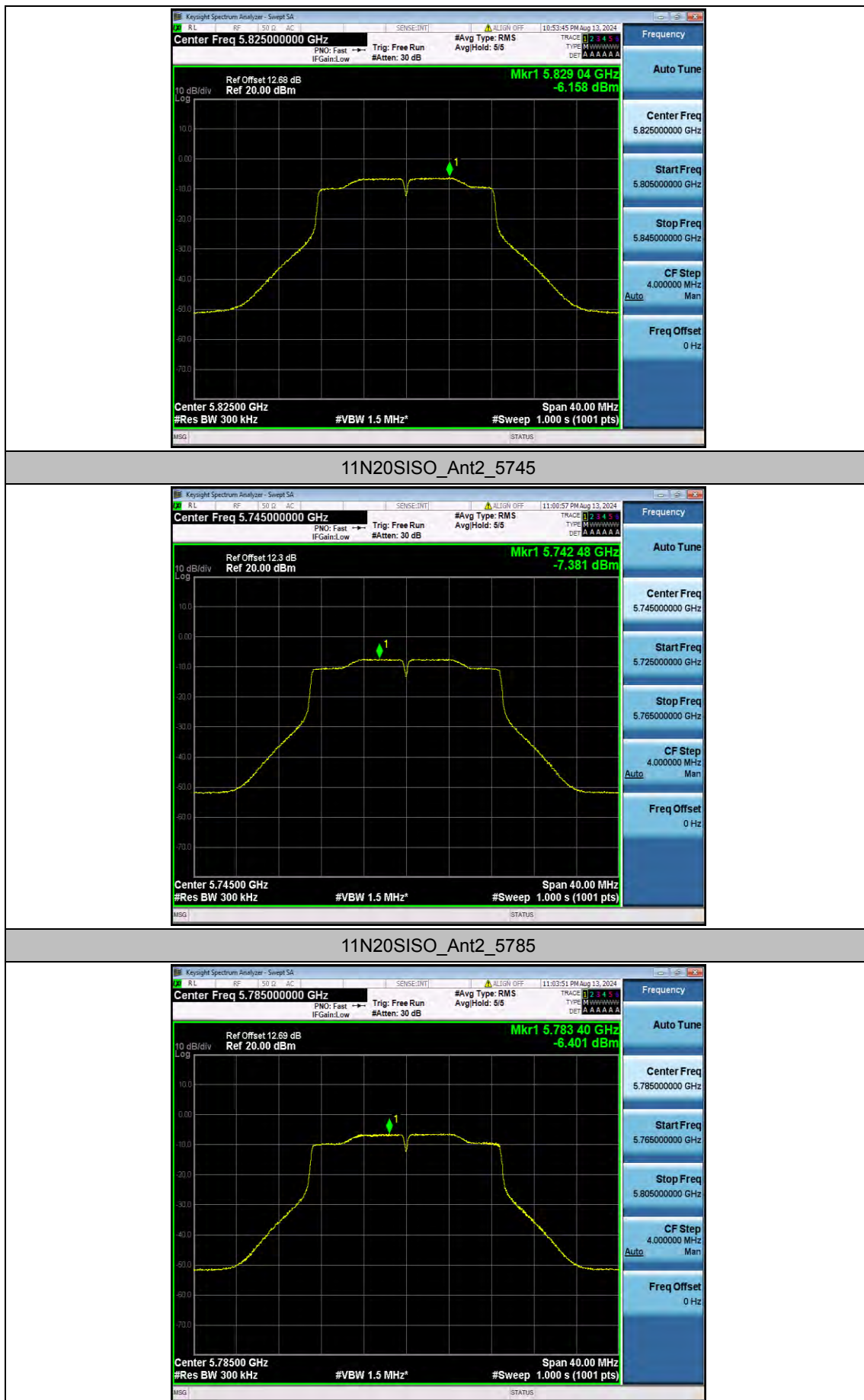
11A_Ant2_5745



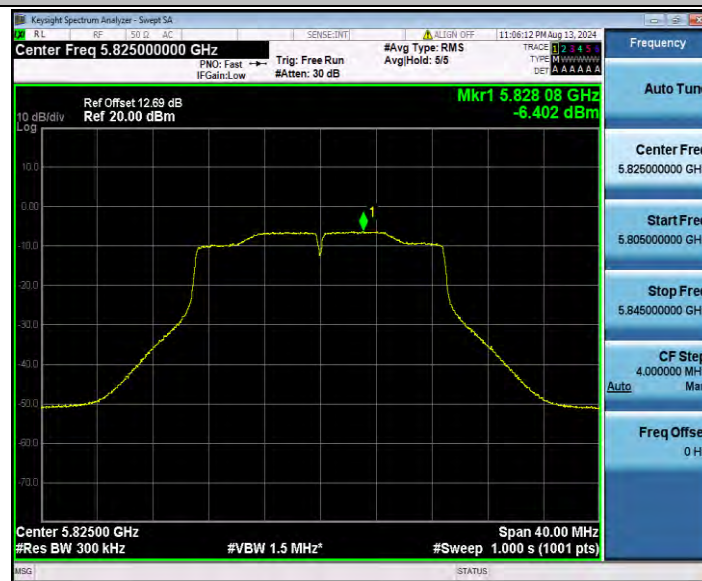
11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



11N40SISO_Ant2_5795



11AC20SISO_Ant2_5745



11AC20SISO_Ant2_5785



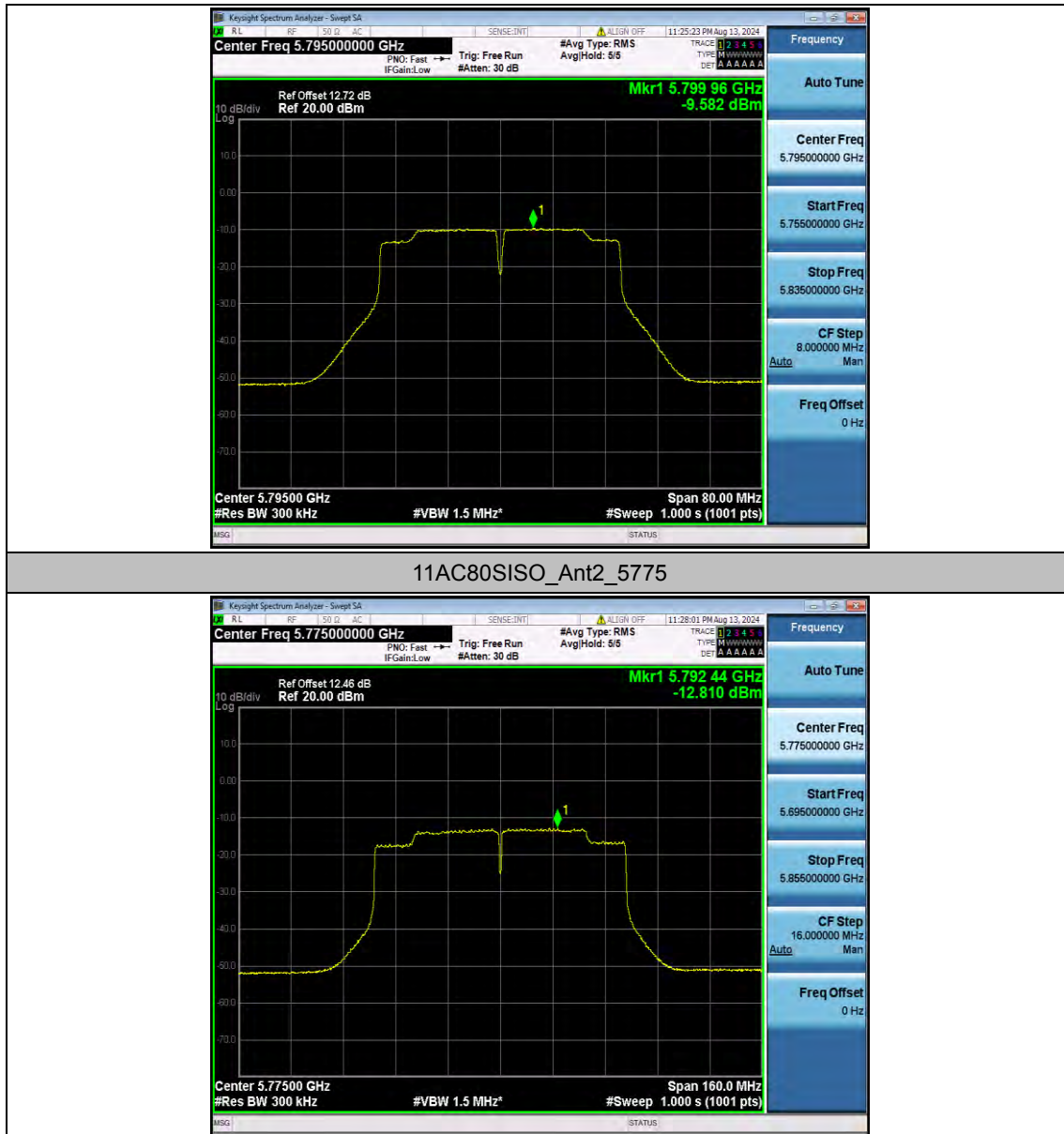
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	Low	5745	5650~5700	-39.89	≤-26.62	PASS
				5700~5720	-39.82	≤10.09	PASS
				5720~5725	-39.9	≤15.82	PASS
				5760~5650	-39.76	≤-27	PASS
		High	5825	5850~5855	-37.86	≤17.26	PASS
				5855~5875	-39.18	≤10.70	PASS
				5875~5925	-39.95	≤-26.61	PASS
				5925~5935	-38.04	≤-27	PASS
11N20SI SO	Ant2	Low	5745	5650~5700	-38.97	≤-25.85	PASS
				5700~5720	-39.74	≤10.38	PASS
				5720~5725	-39.96	≤16.08	PASS
				5760~5650	-40.19	≤-27	PASS
		High	5825	5850~5855	-39.25	≤15.73	PASS
				5855~5875	-38.88	≤10.17	PASS
				5875~5925	-39.56	≤-26.81	PASS
				5925~5935	-38.44	≤-27	PASS
11N40SI SO	Ant2	Low	5755	5650~5700	-40.55	≤-26.90	PASS
				5700~5720	-39.61	≤10.06	PASS
				5720~5725	-39.52	≤16.04	PASS
				5780~5650	-39.29	≤-27	PASS
		High	5795	5850~5855	-37.53	≤16.41	PASS
				5855~5875	-37.24	≤10.71	PASS
				5875~5925	-38.77	≤-26.83	PASS
				5925~5935	-38.38	≤-27	PASS
11AC20S ISO	Ant2	Low	5745	5650~5700	-39.77	≤-26.19	PASS
				5700~5720	-39.57	≤10.44	PASS
				5720~5725	-39.58	≤16.34	PASS
				5760~5650	-39.18	≤-27	PASS
		High	5825	5850~5855	-38.1	≤15.73	PASS
				5855~5875	-38.31	≤10.55	PASS
				5875~5925	-39.22	≤-26.51	PASS
				5925~5935	-38	≤-27	PASS
11AC40S ISO	Ant2	Low	5755	5650~5700	-40.31	≤-26.90	PASS
				5700~5720	-39.58	≤10.36	PASS
				5720~5725	-40.06	≤15.74	PASS
				5780~5650	-39.83	≤-27	PASS

		High	5795	5850~5855	-38.89	≤ 16.03	PASS
				5855~5875	-38.53	≤ 11.03	PASS
				5875~5925	-38.02	≤ -26.46	PASS
				5925~5935	-37.55	≤ -27	PASS
11AC80S ISO	Ant2	Low	5775	5650~5700	-39.59	≤ -26.80	PASS
				5700~5720	-39.36	≤ 10.53	PASS
				5720~5725	-40.06	≤ 16.00	PASS
				5800~5650	-39.89	≤ -27	PASS
		High	5775	5850~5855	-38.67	≤ 17.10	PASS
				5855~5875	-37.81	≤ 10.29	PASS
				5875~5925	-39.56	≤ -26.60	PASS
				5925~5935	-39.05	≤ -27	PASS

Test Graphs B4

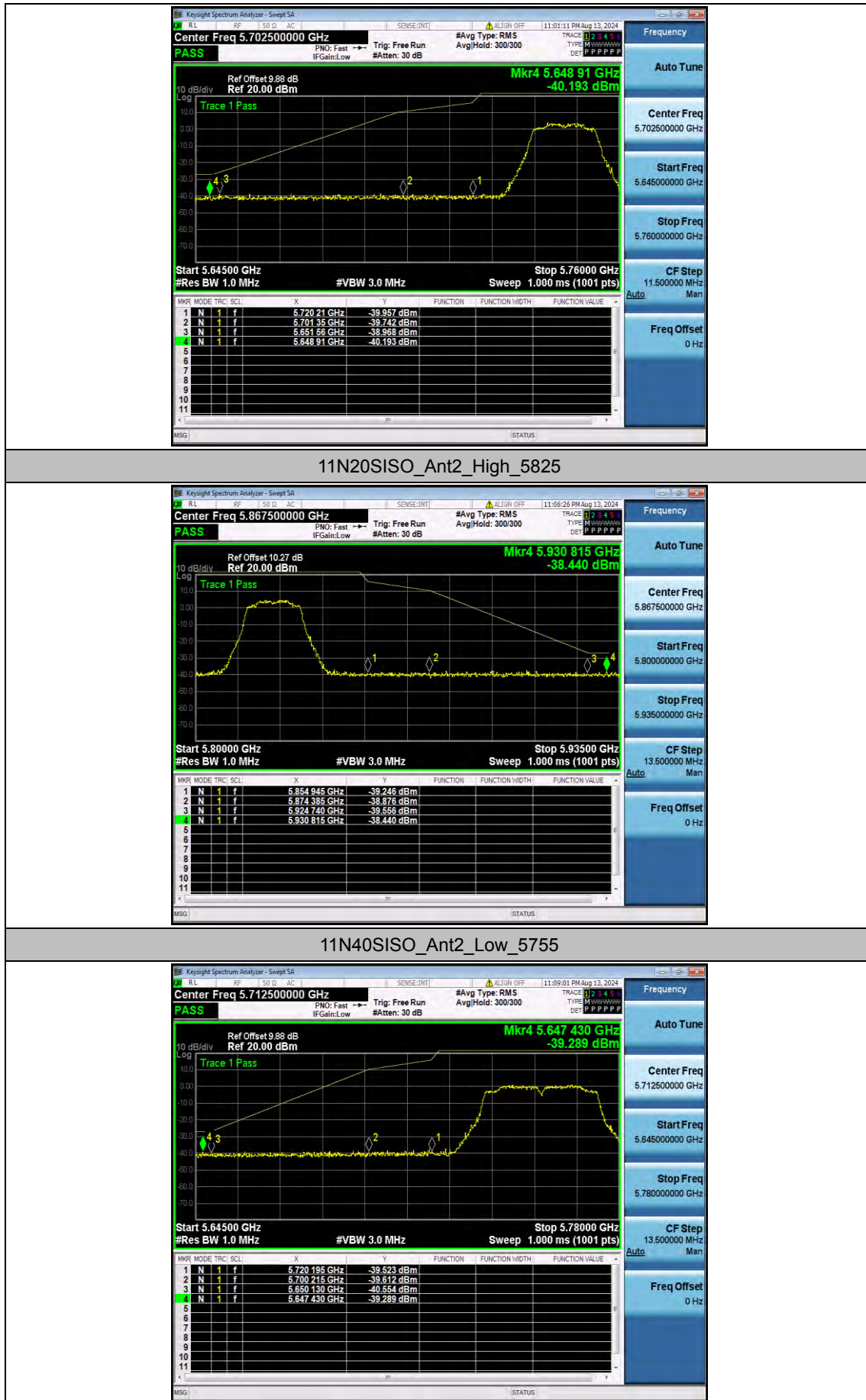
11A_Ant2_Low_5745



11A_Ant2_High_5825



11N20SISO_Ant2_Low_5745



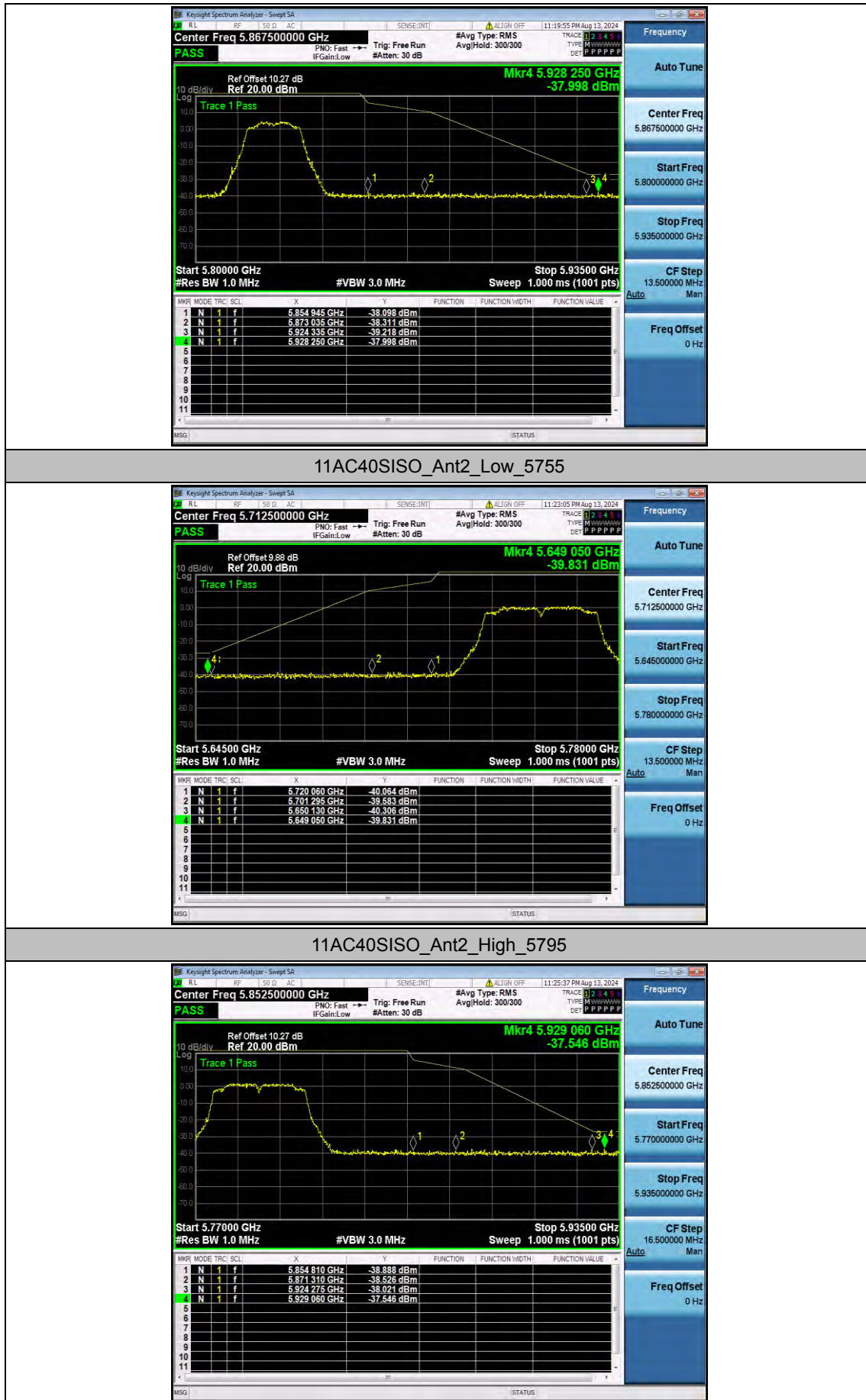
11N40SISO_Ant2_High_5795



11AC20SISO_Ant2_Low_5745



11AC20SISO_Ant2_High_5825



11AC80SISO_Ant2_Low_5775



11AC80SISO_Ant2_High_5775

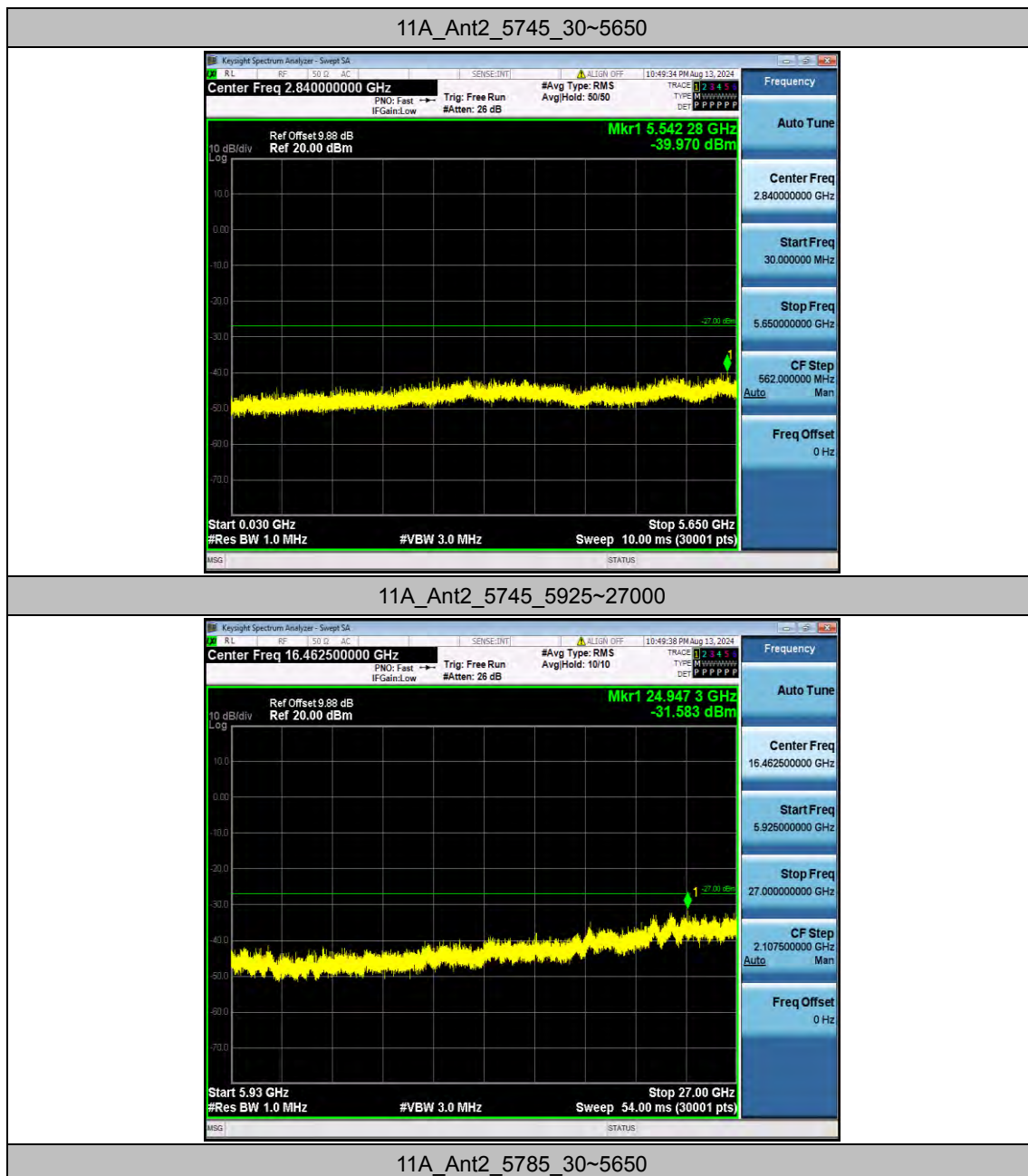


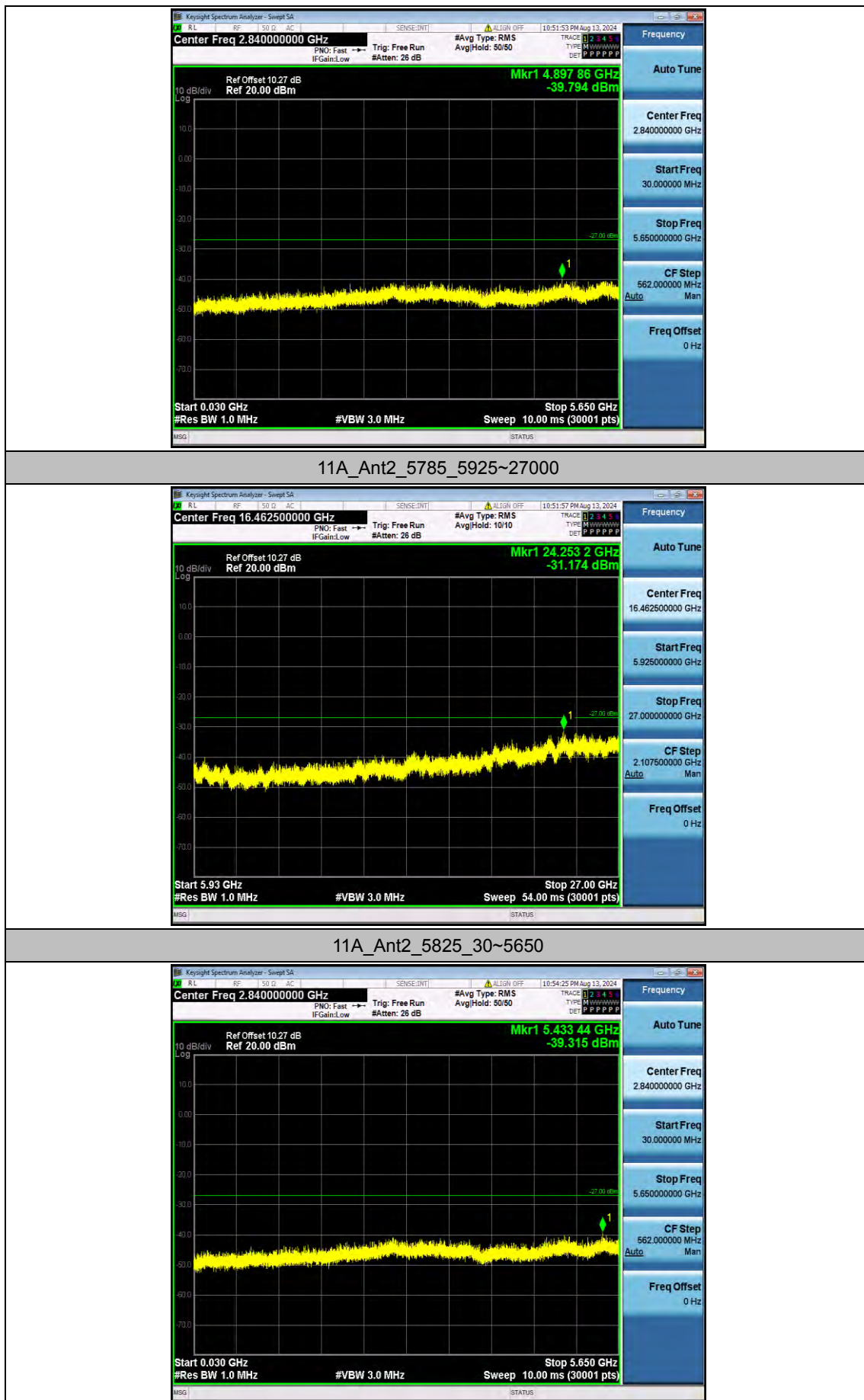
Appendix E.7: Conducted Spurious Emission

Test Result

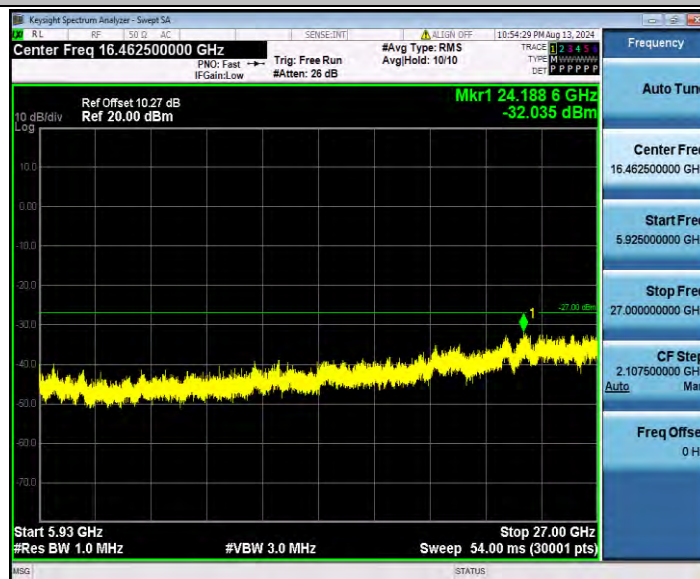
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5745	30~5650	5542.28	-39.97	≤-27	PASS
			5925~27000	24947.3	-31.58	≤-27	PASS
		5785	30~5650	4897.86	-39.79	≤-27	PASS
			5925~27000	24253.23	-31.17	≤-27	PASS
		5825	30~5650	5433.44	-39.32	≤-27	PASS
			5925~27000	24188.6	-32.04	≤-27	PASS
11N20SISO	Ant2	5745	30~5650	5540.97	-39.38	≤-27	PASS
			5925~27000	26312.96	-32.35	≤-27	PASS
		5785	30~5650	5539.47	-40.09	≤-27	PASS
			5925~27000	24175.95	-31.01	≤-27	PASS
		5825	30~5650	4829.67	-38.96	≤-27	PASS
			5925~27000	26572.18	-31.8	≤-27	PASS
11N40SISO	Ant2	5755	30~5650	5021.5	-40.1	≤-27	PASS
			5925~27000	23614.65	-32.53	≤-27	PASS
		5795	30~5650	5386.8	-40.25	≤-27	PASS
			5925~27000	25761.49	-31.84	≤-27	PASS
11AC20SISO	Ant2	5745	30~5650	5489.64	-40.04	≤-27	PASS
			5925~27000	24277.11	-31.6	≤-27	PASS
		5785	30~5650	5454.24	-39.1	≤-27	PASS
			5925~27000	24186.49	-30.51	≤-27	PASS
		5825	30~5650	5506.69	-39.81	≤-27	PASS
			5925~27000	24160.5	-31.73	≤-27	PASS
11AC40SISO	Ant2	5755	30~5650	5554.83	-40.28	≤-27	PASS
			5925~27000	26714.08	-31.78	≤-27	PASS
		5795	30~5650	3151.35	-40.05	≤-27	PASS
			5925~27000	26874.25	-32.21	≤-27	PASS
11AC80SISO	Ant2	5775	30~5650	5400.85	-39.9	≤-27	PASS
			5925~27000	24253.93	-30.79	≤-27	PASS

Test Graphs





11A_Ant2_5825_5925~27000



11N20SISO_Ant2_5745_30~5650



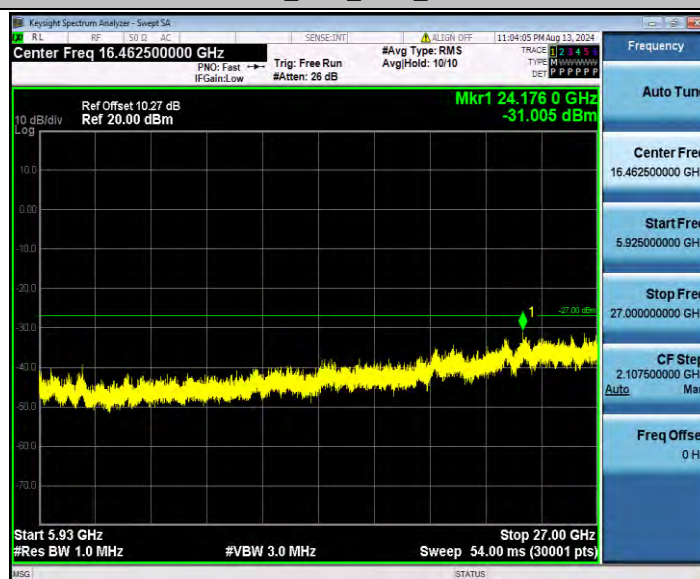
11N20SISO_Ant2_5745_5925~27000



11N20SISO_Ant2_5785_30~5650



11N20SISO_Ant2_5785_5925~27000



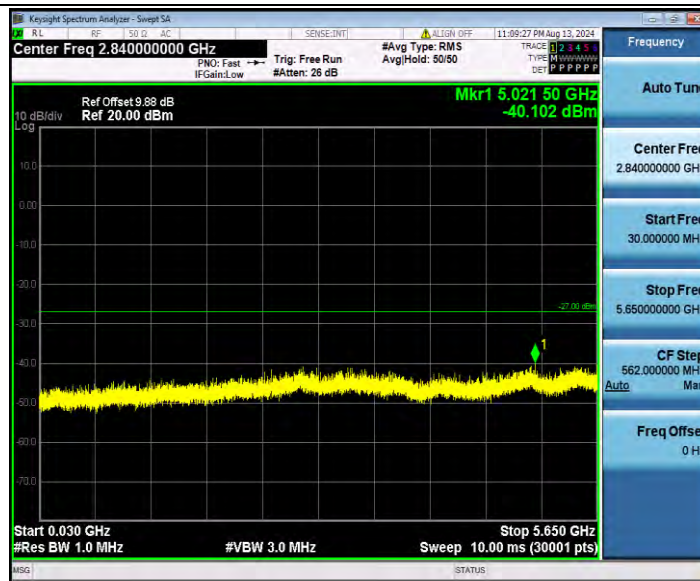
11N20SISO_Ant2_5825_30~5650



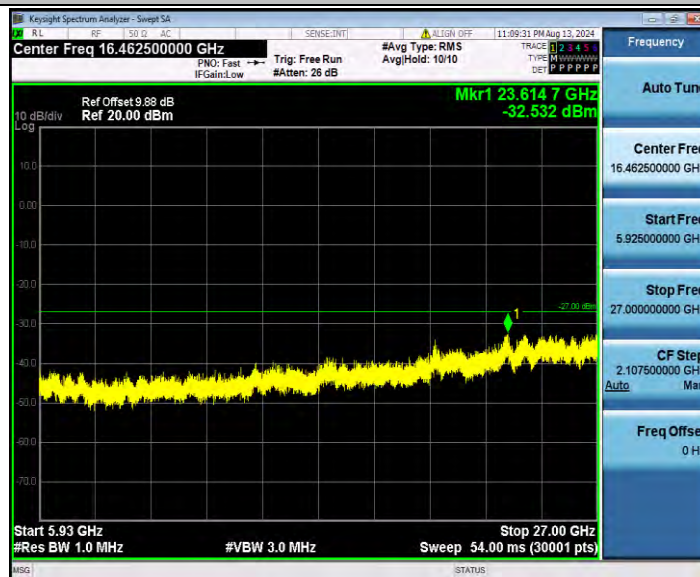
11N20SISO_Ant2_5825_5925~27000



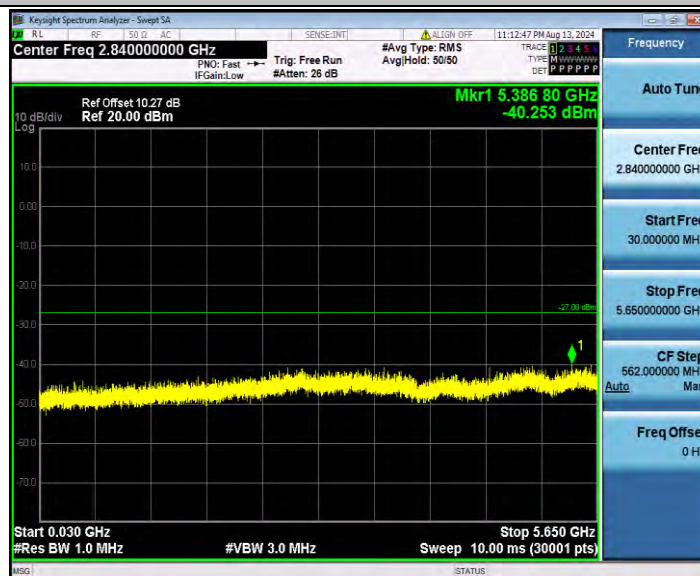
11N40SISO_Ant2_5755_30~5650



11N40SISO_Ant2_5755_5925~27000



11N40SISO_Ant2_5795_30~5650



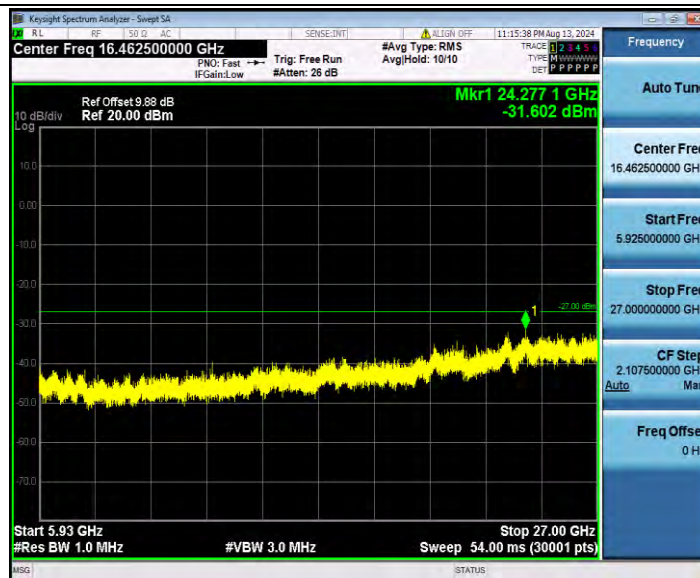
11N40SISO_Ant2_5795_5925~27000



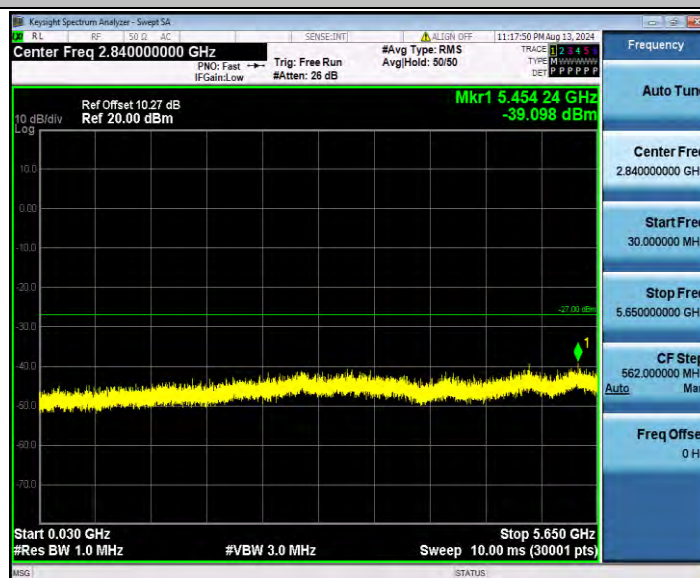
11AC20SISO_Ant2_5745_30~5650



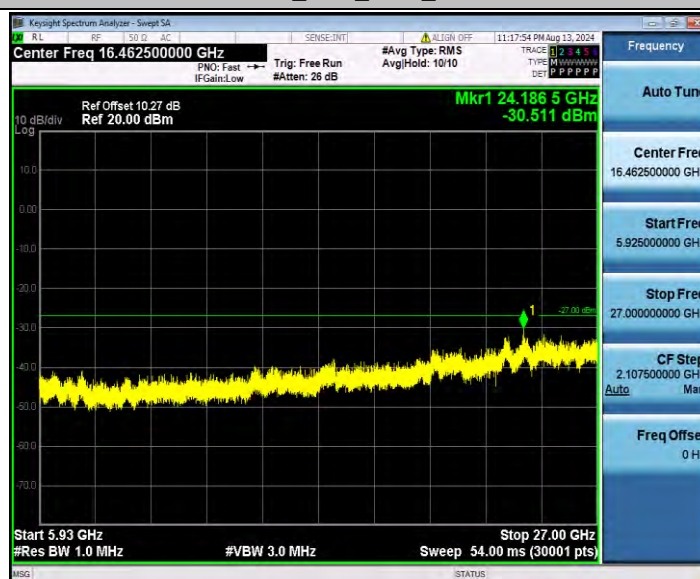
11AC20SISO_Ant2_5745_5925~27000



11AC20SISO_Ant2_5785_30~5650



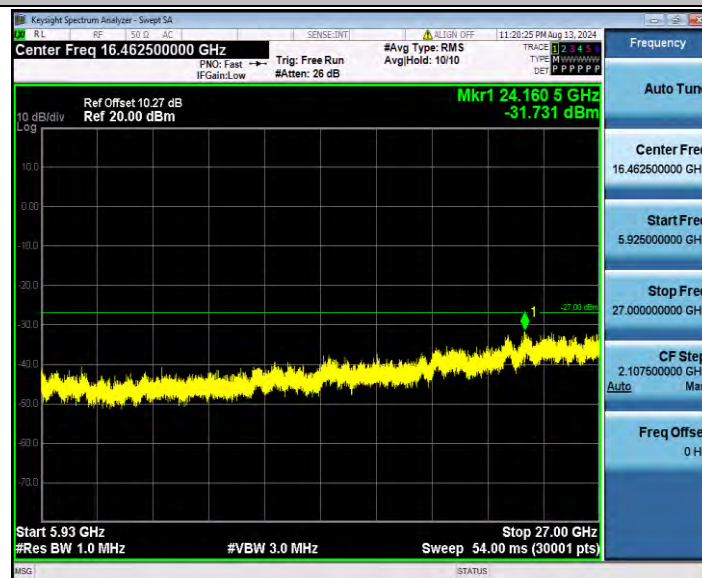
11AC20SISO_Ant2_5785_5925~27000



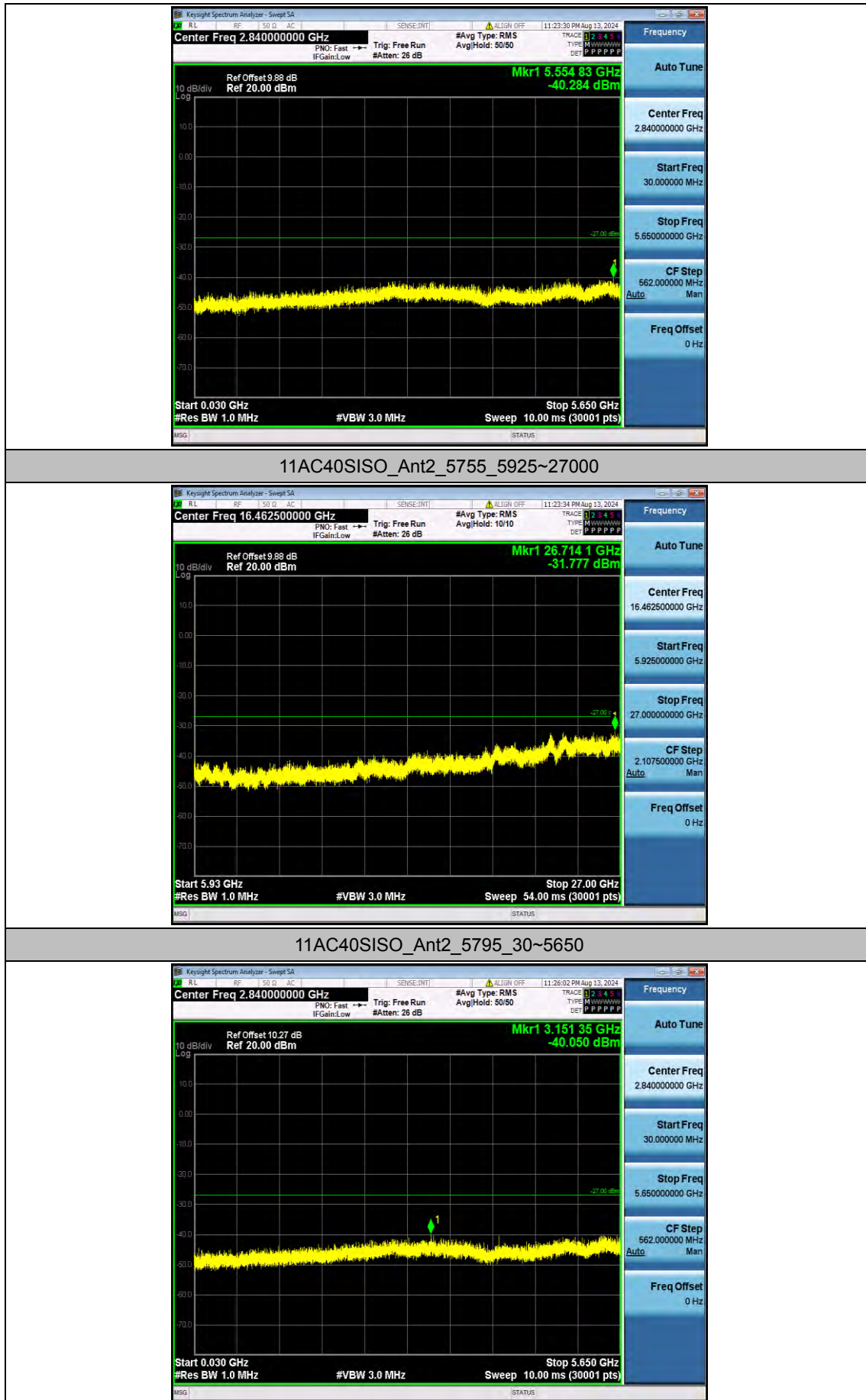
11AC20SISO_Ant2_5825_30~5650



11AC20SISO_Ant2_5825_5925~27000



11AC40SISO_Ant2_5755_30~5650



11AC40SISO_Ant2_5795_5925~27000



11AC80SISO_Ant2_5775_30~5650



11AC80SISO_Ant2_5775_5925~27000

