

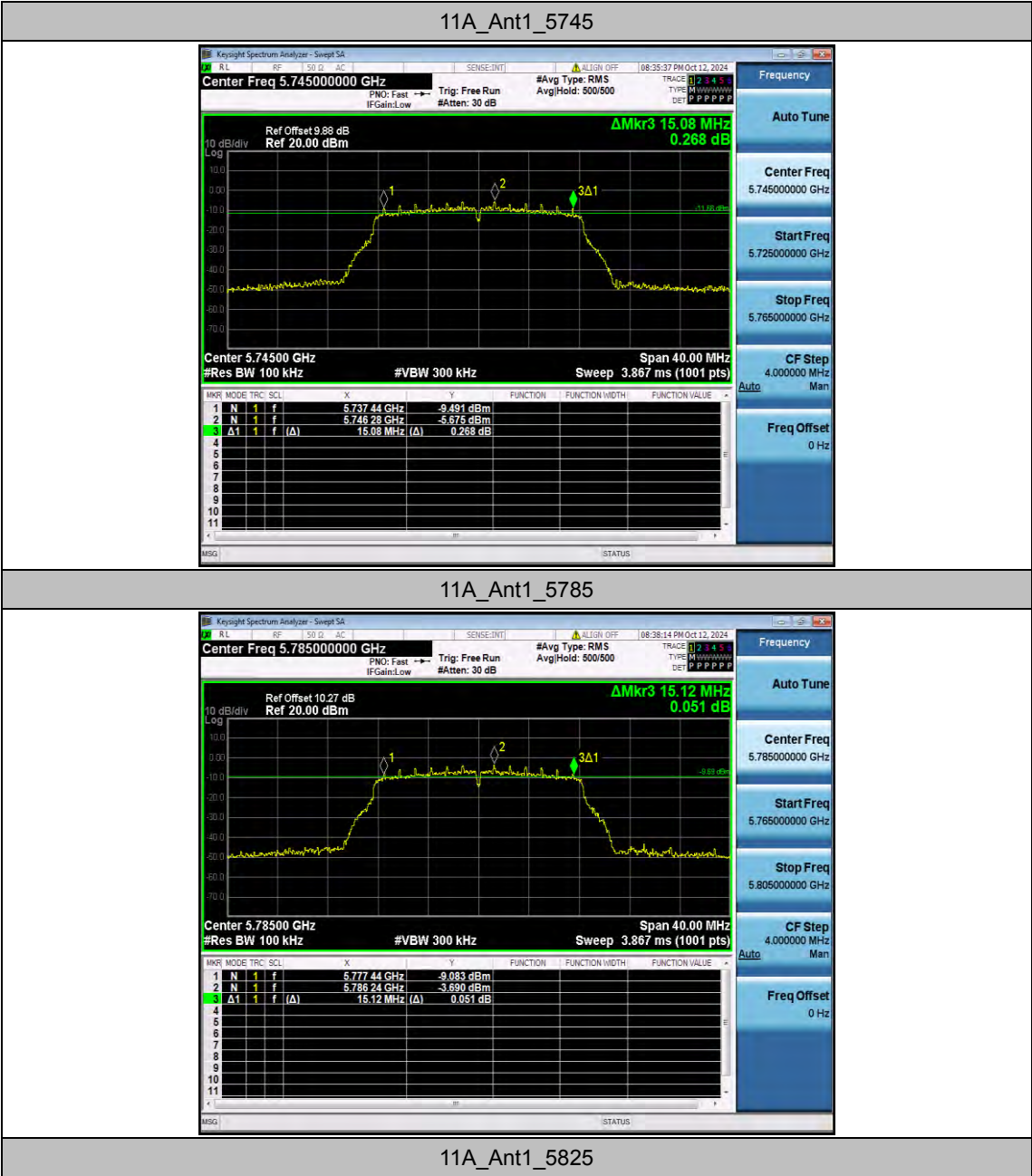
Case No. : <u>CTA24090900404</u>	
Ambient Condition: <u>23</u> °C, <u>52</u> %RH	
According Standard: <u>■Part15E</u>	
Test Date: <u>2024.9.19</u>	Test Engineer: <u>Lushan Kong</u>

Appendix E.1: Min emission bandwidth

Test Result B4

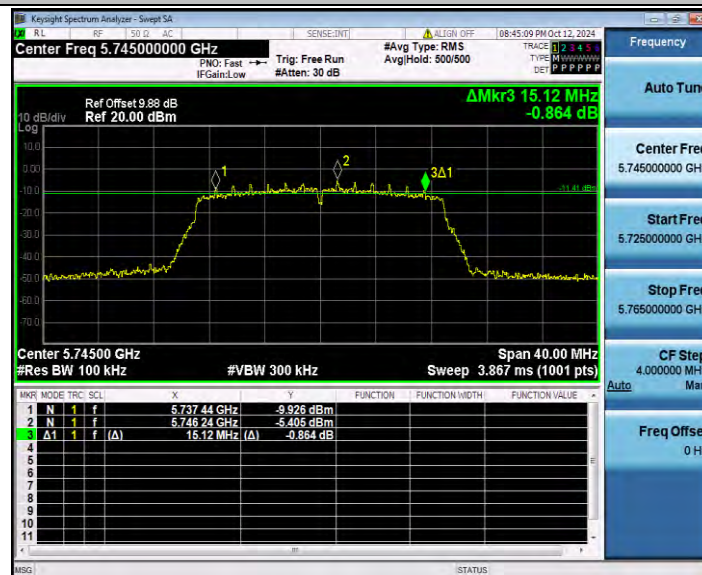
TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11N20SISO	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.080	5777.480	5792.560	0.5	PASS
		5825	15.120	5817.440	5832.560	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	15.080	5737.480	5752.560	0.5	PASS
		5785	15.040	5777.520	5792.560	0.5	PASS
		5825	15.080	5817.480	5832.560	0.5	PASS
11AC40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs B4





11N20SISO_Ant1_5745



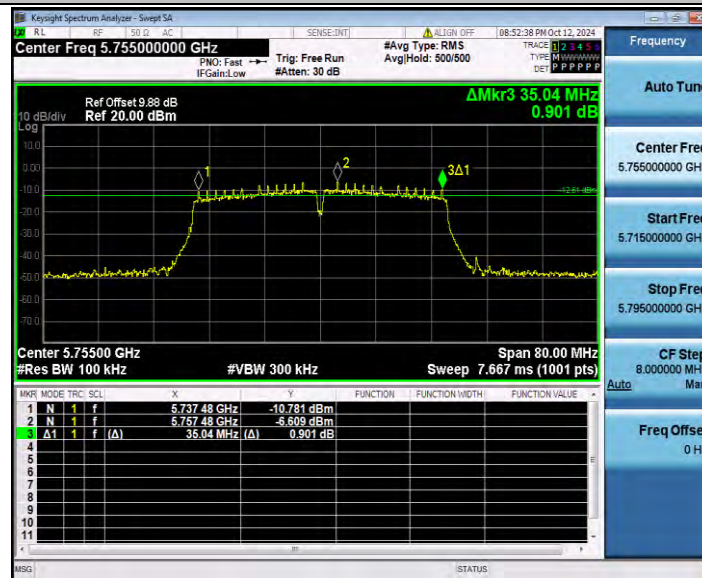
11N20SISO_Ant1_5785



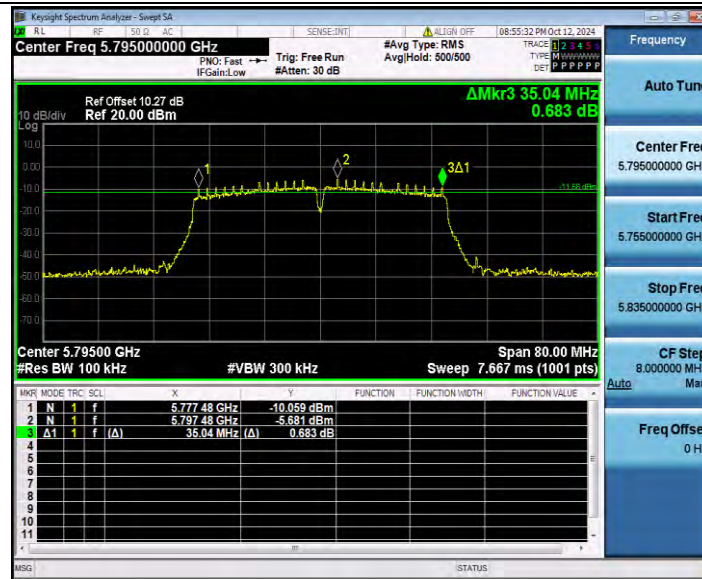
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



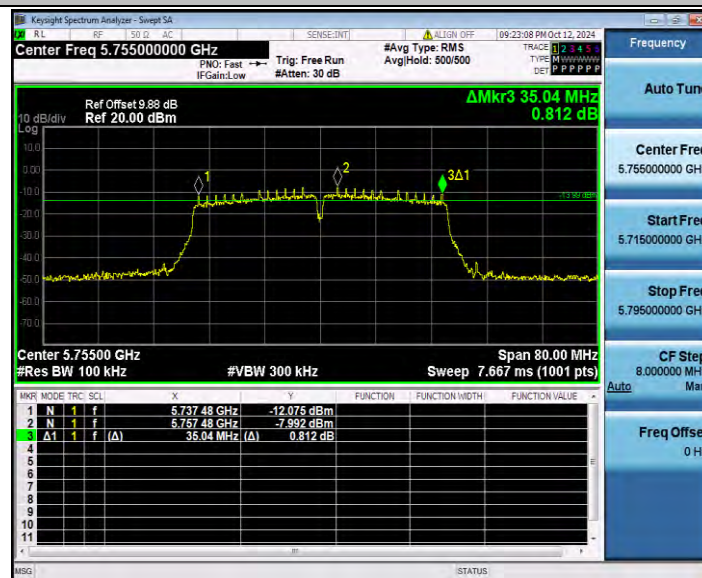
11AC20SISO_Ant1_5785



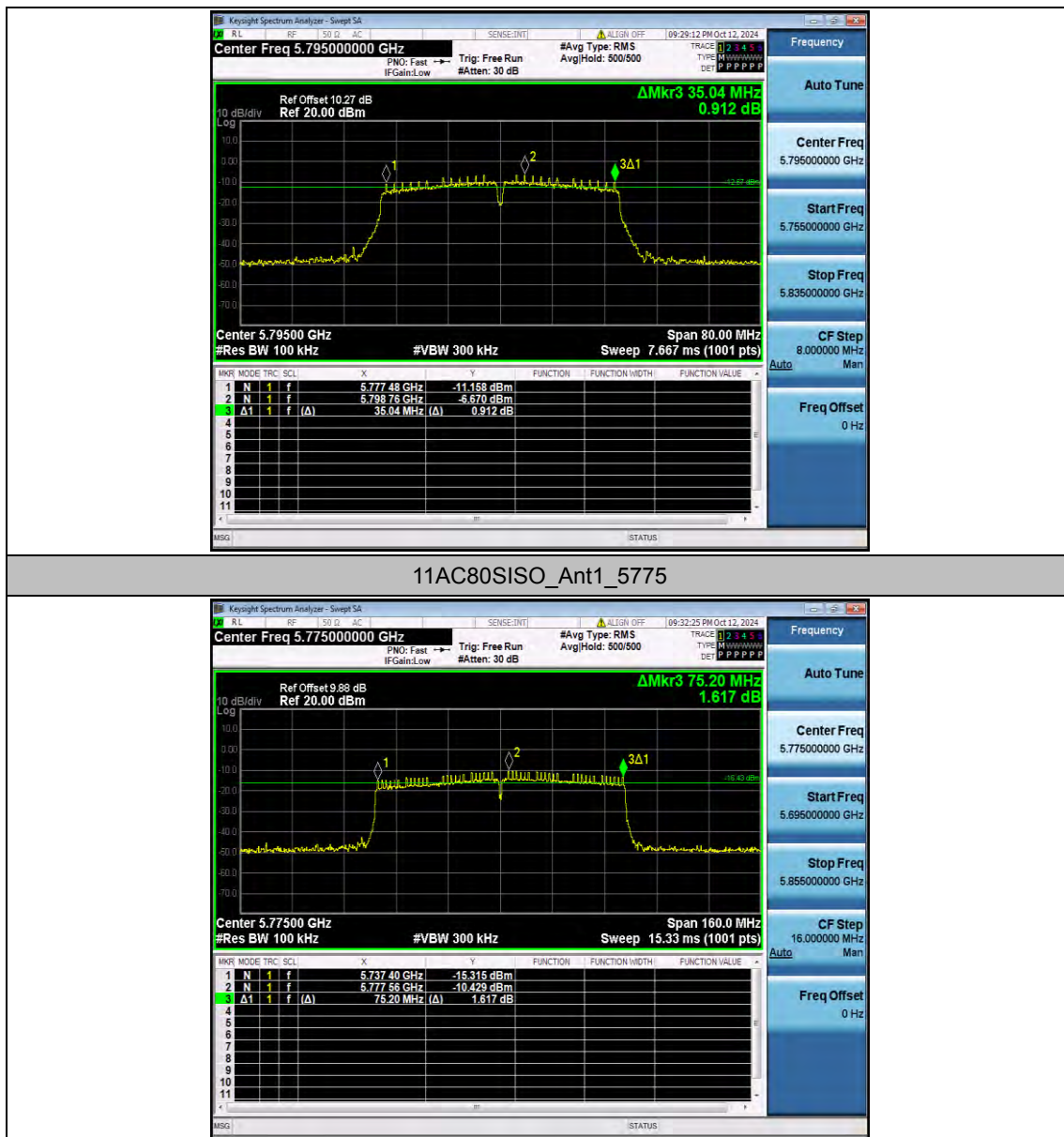
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix E.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.891	5736.5731	5753.4641	---	---
		5785	16.874	5776.5722	5793.4462	---	---
		5825	16.894	5816.5874	5833.4814	---	---
11N20SISO	Ant1	5745	17.796	5736.1116	5753.9076	---	---
		5785	17.839	5776.1021	5793.9411	---	---
		5825	17.865	5816.0967	5833.9617	---	---
11N40SISO	Ant1	5755	36.308	5736.9061	5773.2141	---	---
		5795	36.206	5776.9810	5813.1870	---	---
11AC20SISO	Ant1	5745	17.864	5736.0745	5753.9385	---	---
		5785	17.841	5776.0915	5793.9325	---	---
		5825	17.870	5816.0792	5833.9492	---	---
11AC40SISO	Ant1	5755	36.306	5736.9189	5773.2249	---	---
		5795	36.220	5776.9694	5813.1894	---	---
11AC80SISO	Ant1	5775	75.315	5737.5108	5812.8258	---	---

Test Graphs

11A_Ant1_5745



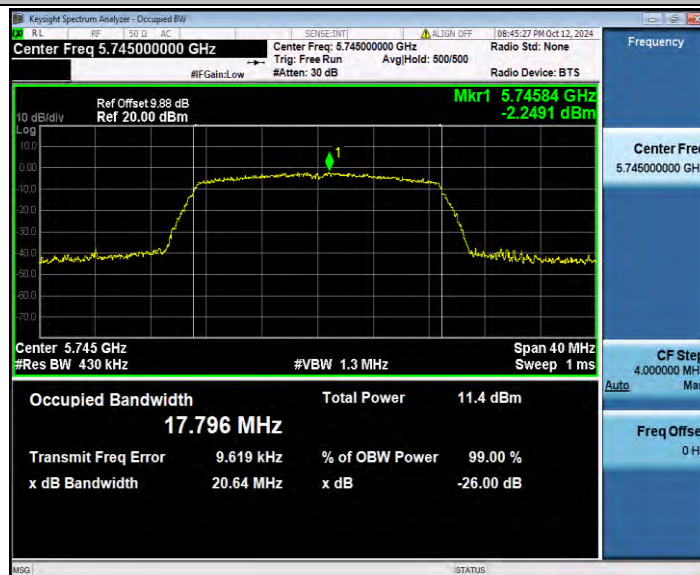
11A_Ant1_5785



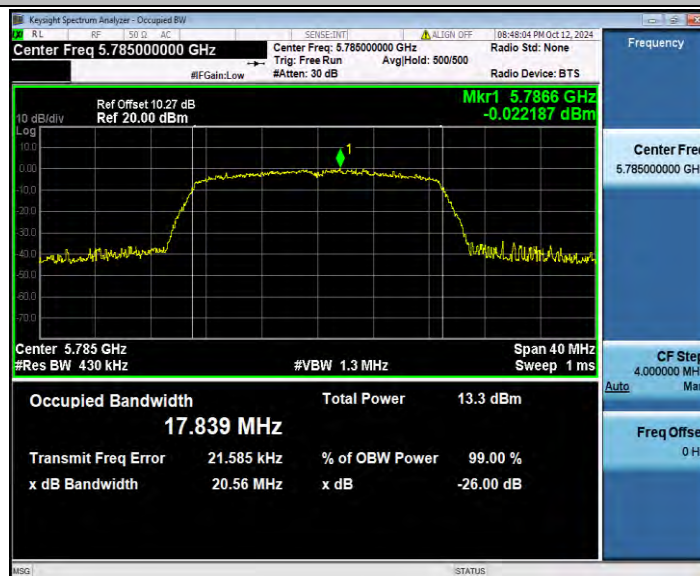
11A_Ant1_5825



11N20SISO_Ant1_5745



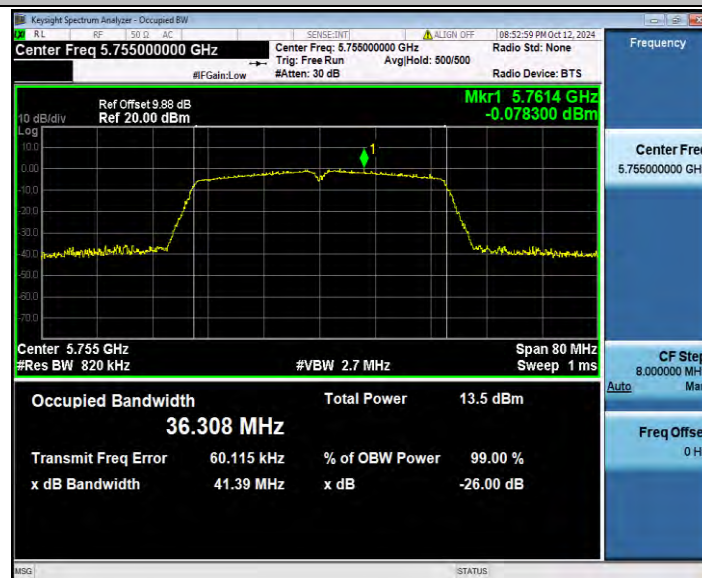
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



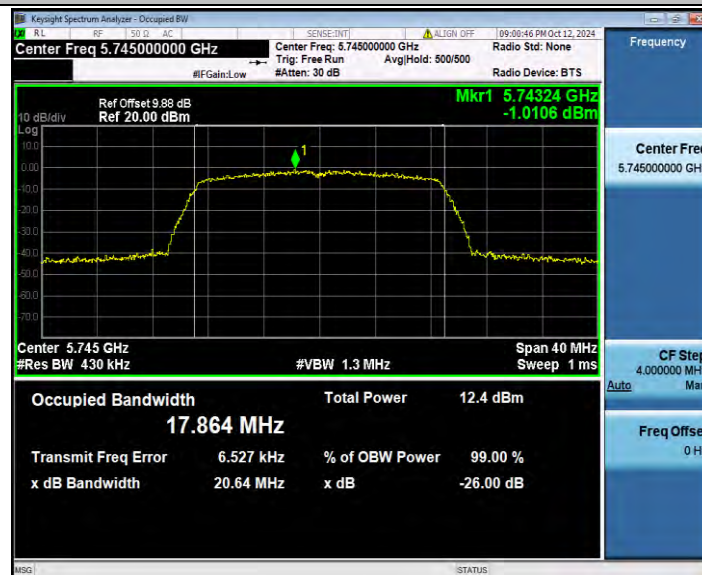
11N40SISO_Ant1_5755



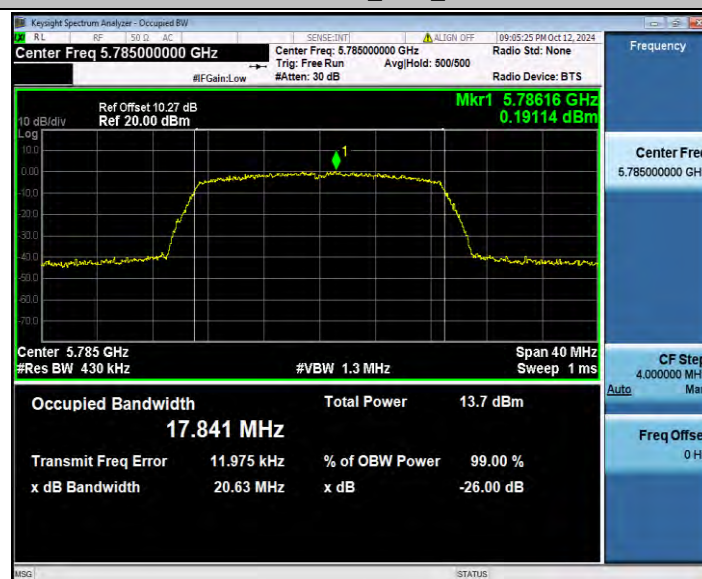
11N40SISO_Ant1_5795



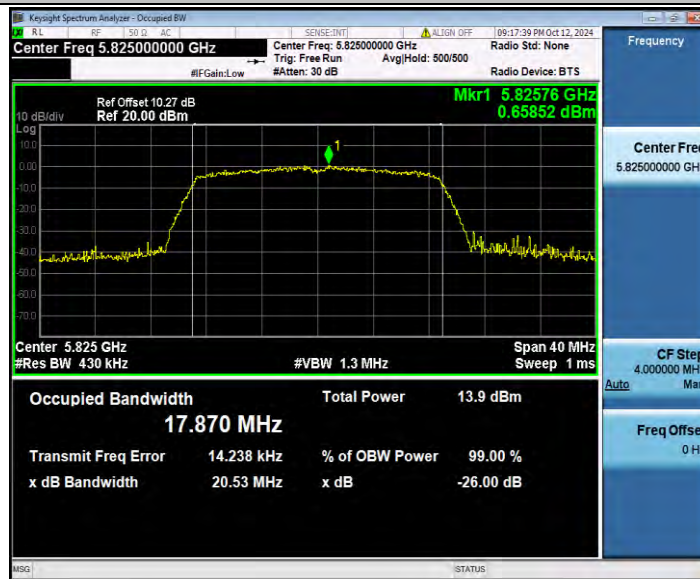
11AC20SISO_Ant1_5745



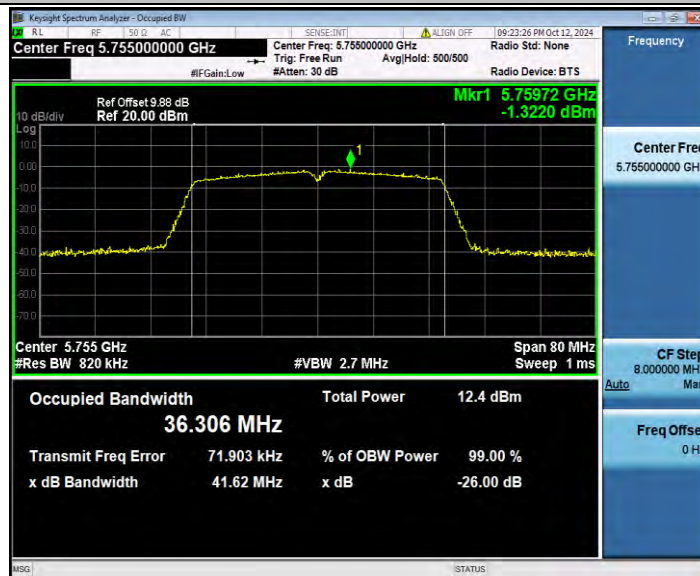
11AC20SISO_Ant1_5785



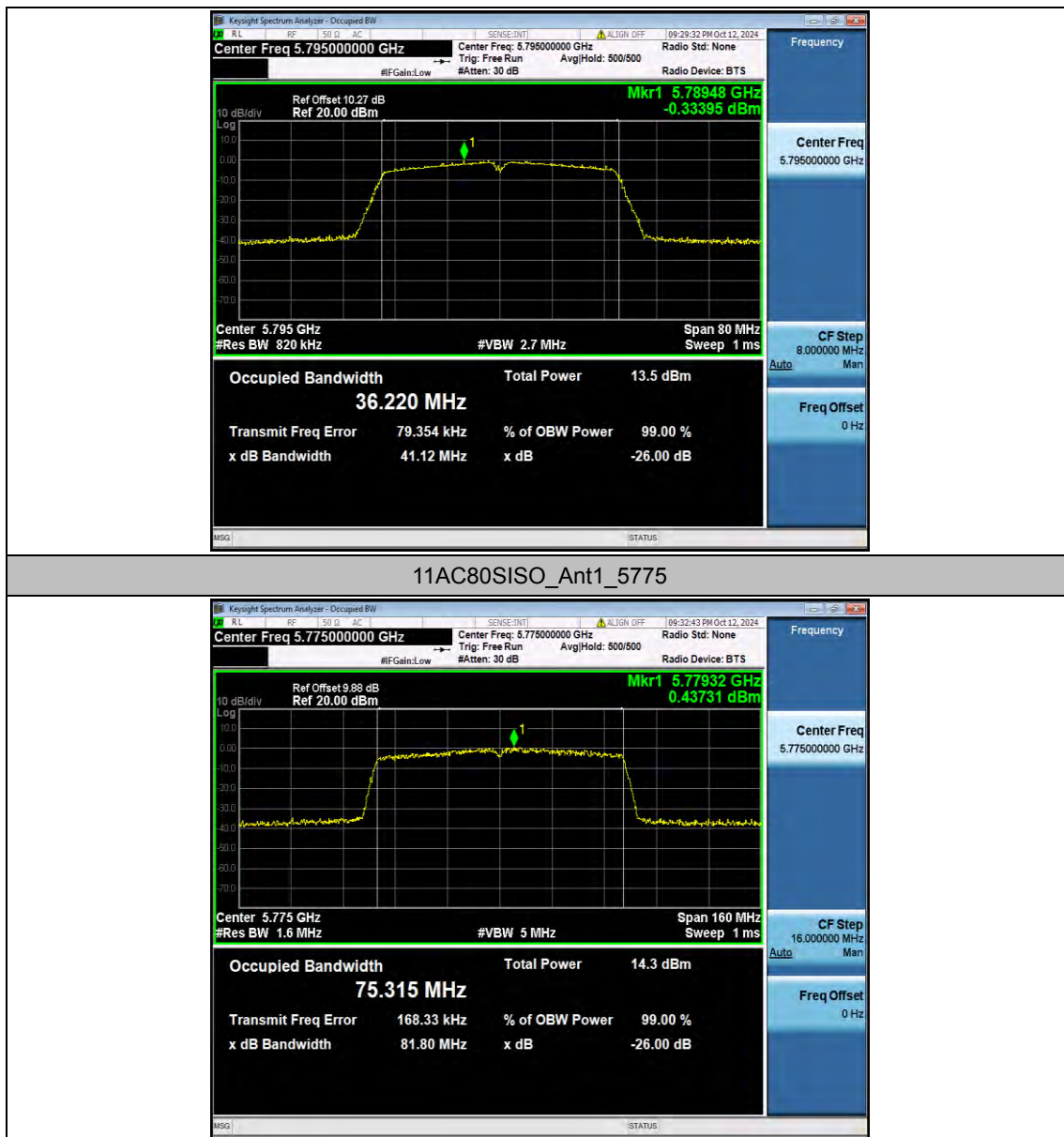
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

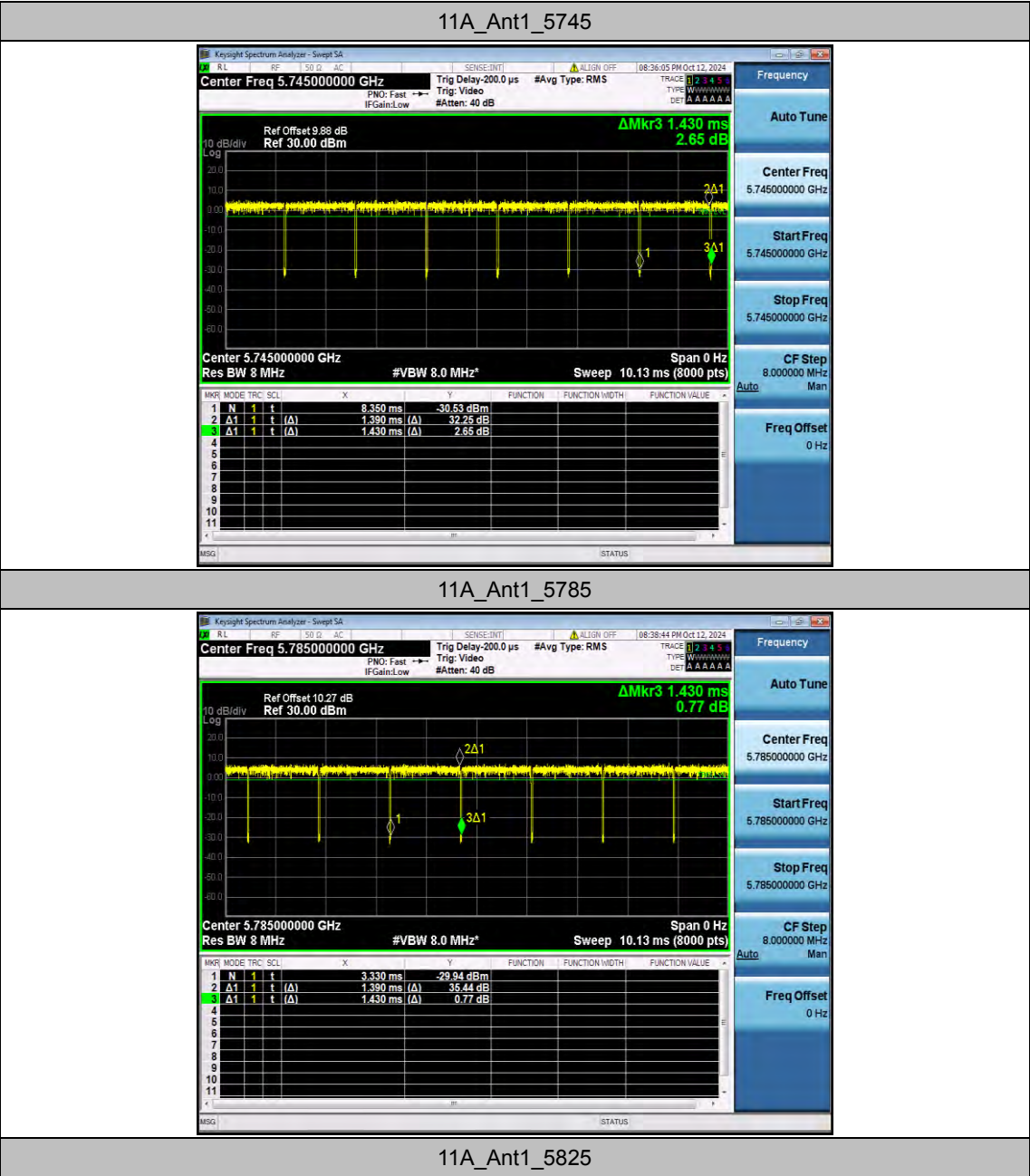


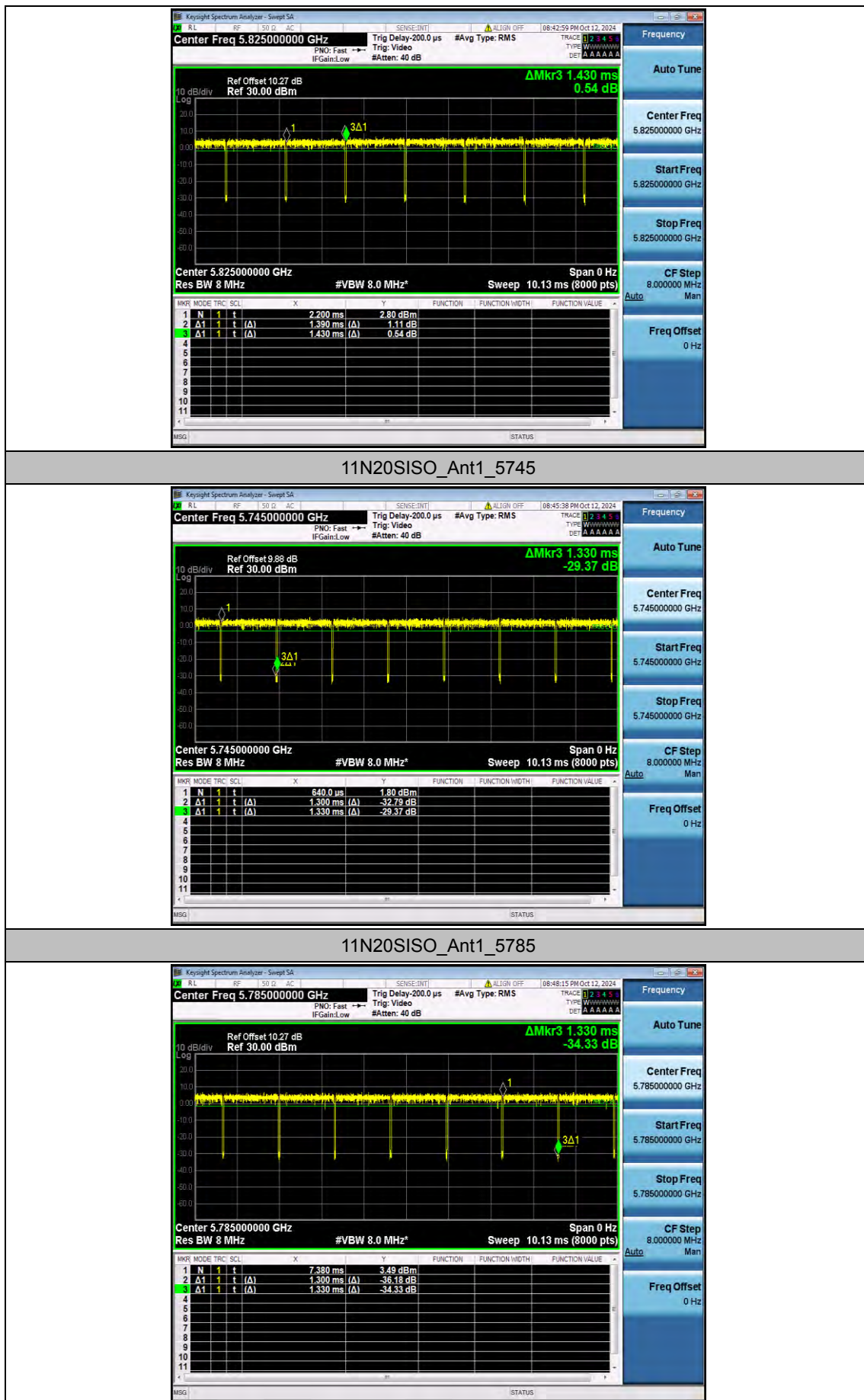
Appendix E.3: Duty Cycle

Test Result

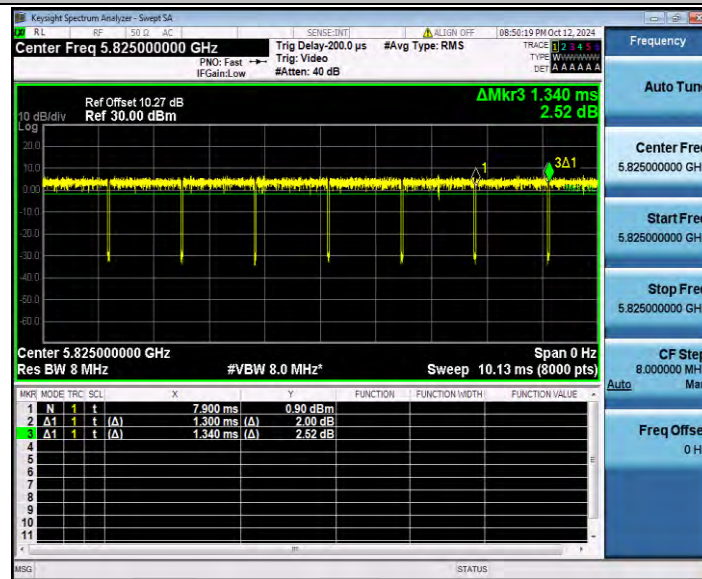
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	1.39	1.43	97.20	0.12	0.72
		5785	1.39	1.43	97.20	0.12	0.72
		5825	1.39	1.43	97.20	0.12	0.72
11N20SISO	Ant1	5745	1.30	1.33	97.74	0.10	0.77
		5785	1.30	1.33	97.74	0.10	0.77
		5825	1.30	1.34	97.01	0.13	0.77
11N40SISO	Ant1	5755	0.64	0.68	94.12	0.26	1.56
		5795	0.64	0.68	94.12	0.26	1.56
11AC20SISO	Ant1	5745	1.31	1.34	97.76	0.10	0.76
		5785	1.31	1.34	97.76	0.10	0.76
		5825	1.31	1.35	97.04	0.13	0.76
11AC40SISO	Ant1	5755	0.65	0.69	94.20	0.26	1.54
		5795	0.65	0.69	94.20	0.26	1.54
11AC80SISO	Ant1	5775	0.32	0.36	88.89	0.51	3.13

Test Graphs

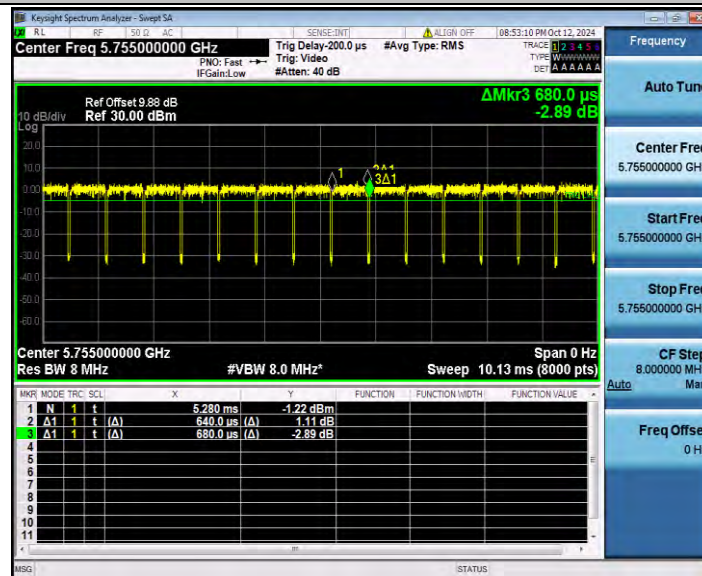




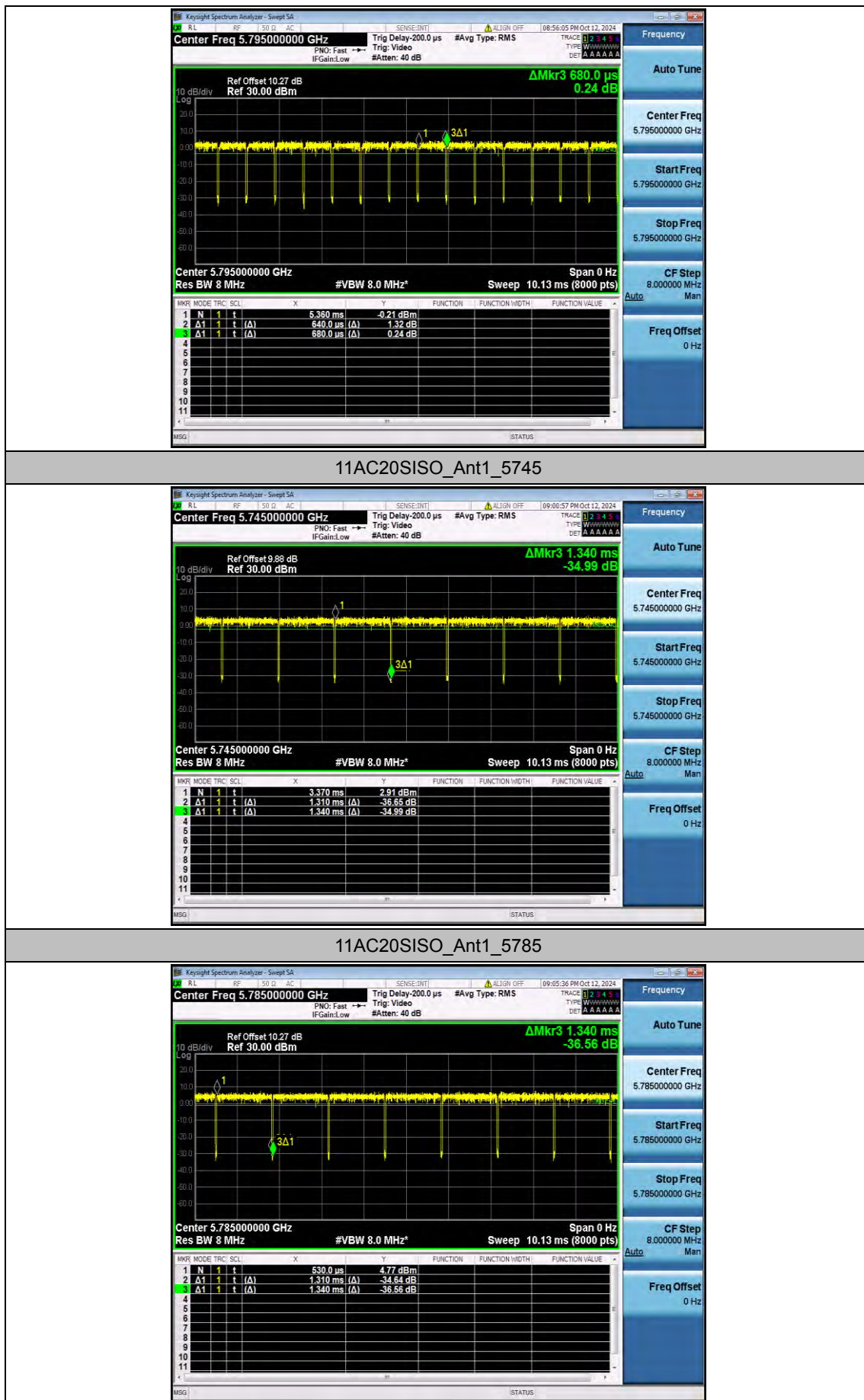
11N20SISO_Ant1_5825

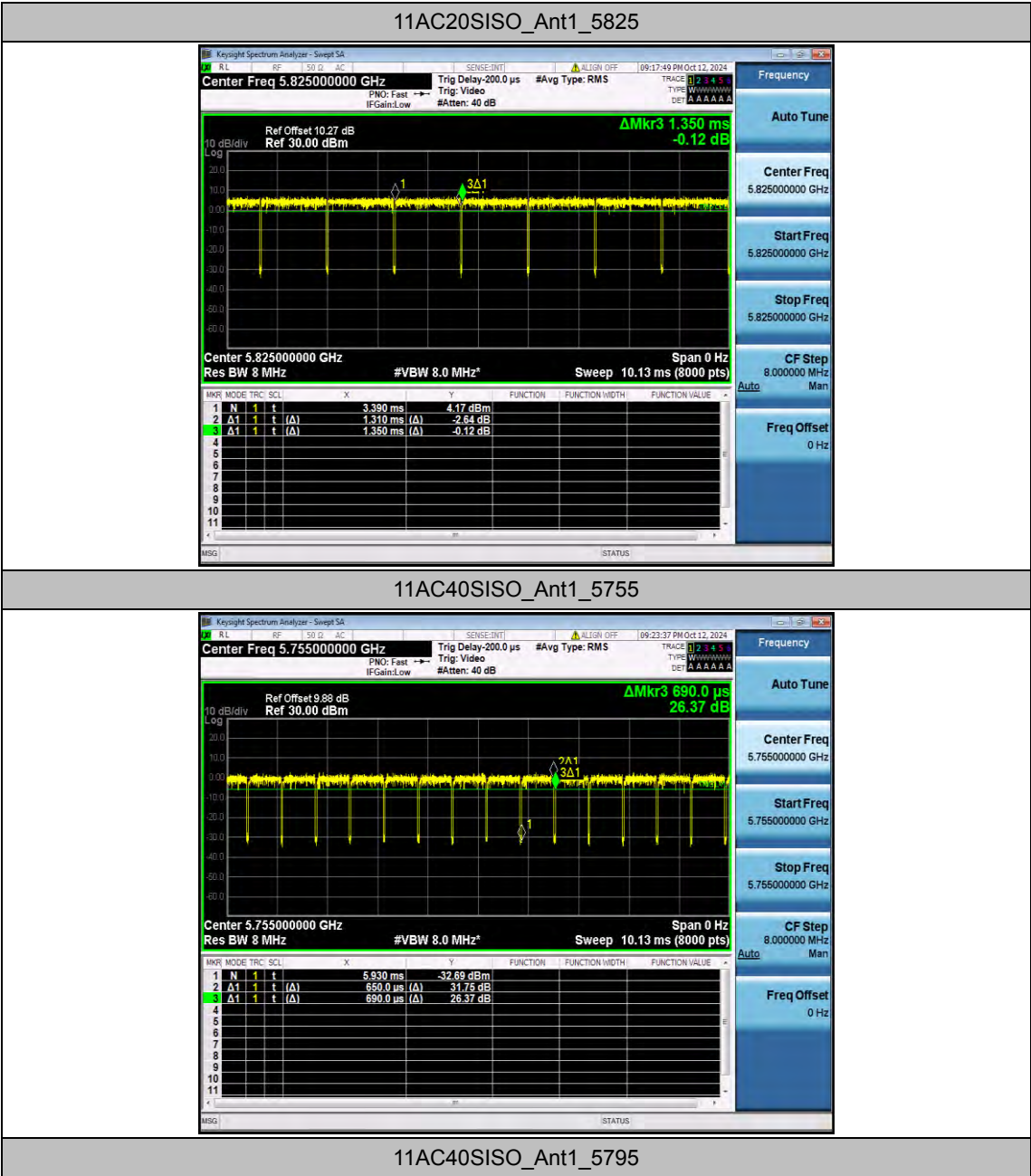


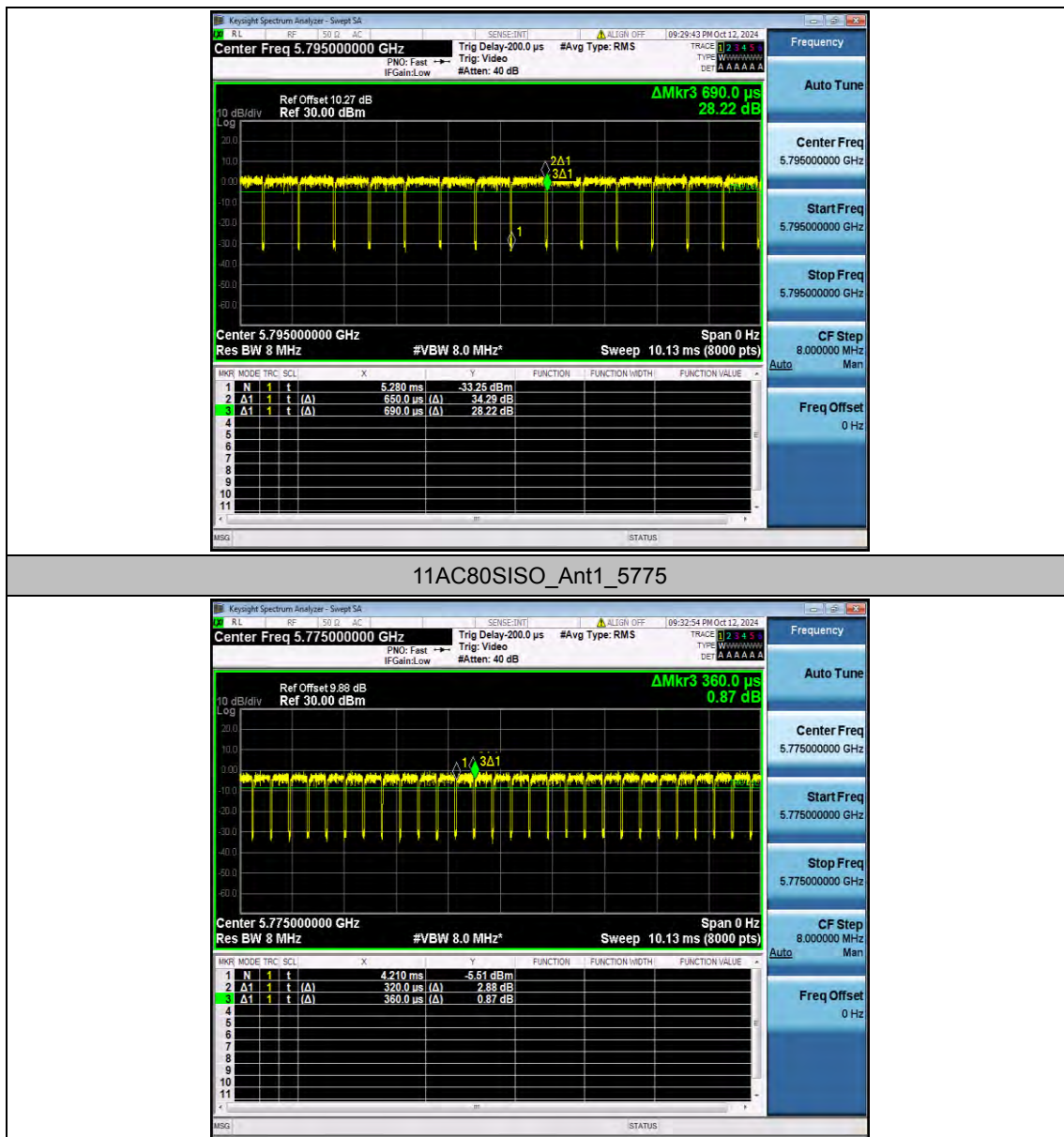
11N40SISO_Ant1_5755



11N40SISO_Ant1_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	Ant1	5745	4.70	97.20	0.12	4.82	≤30.00	PASS
		5785	6.56	97.20	0.12	6.68	≤30.00	PASS
		5825	5.95	97.20	0.12	6.07	≤30.00	PASS
11N20SISO	Ant1	5745	4.63	97.74	0.10	4.73	≤30.00	PASS
		5785	6.35	97.74	0.10	6.45	≤30.00	PASS
		5825	6.34	97.01	0.13	6.47	≤30.00	PASS
11N40SISO	Ant1	5755	5.95	94.12	0.26	6.21	≤30.00	PASS
		5795	5.92	94.12	0.26	6.18	≤30.00	PASS
11AC20SISO	Ant1	5745	5.64	97.76	0.10	5.74	≤30.00	PASS
		5785	6.83	97.76	0.10	6.93	≤30.00	PASS
		5825	6.07	97.04	0.13	6.20	≤30.00	PASS
11AC40SISO	Ant1	5755	4.76	94.20	0.26	5.02	≤30.00	PASS
		5795	5.92	94.20	0.26	6.18	≤30.00	PASS
11AC80SISO	Ant1	5775	4.92	88.89	0.51	5.43	≤30.00	PASS

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-8.29	≤30.00	PASS
		5785	-6.47	≤30.00	PASS
		5825	-6.97	≤30.00	PASS
11N20SISO	Ant1	5745	-8.83	≤30.00	PASS
		5785	-7.01	≤30.00	PASS
		5825	-7.05	≤30.00	PASS
11N40SISO	Ant1	5755	-10.31	≤30.00	PASS
		5795	-9.15	≤30.00	PASS
11AC20SISO	Ant1	5745	-7.73	≤30.00	PASS
		5785	-6.40	≤30.00	PASS
		5825	-6.57	≤30.00	PASS
11AC40SISO	Ant1	5755	-11.27	≤30.00	PASS
		5795	-10.10	≤30.00	PASS
11AC80SISO	Ant1	5775	-13.95	≤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



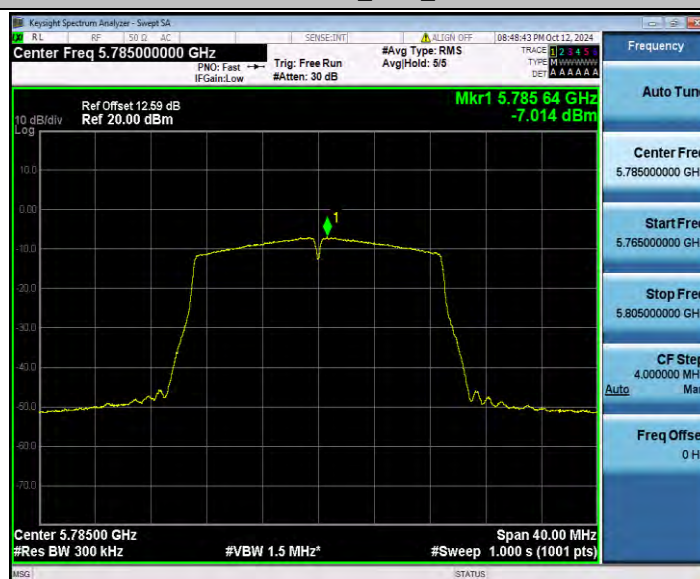
11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



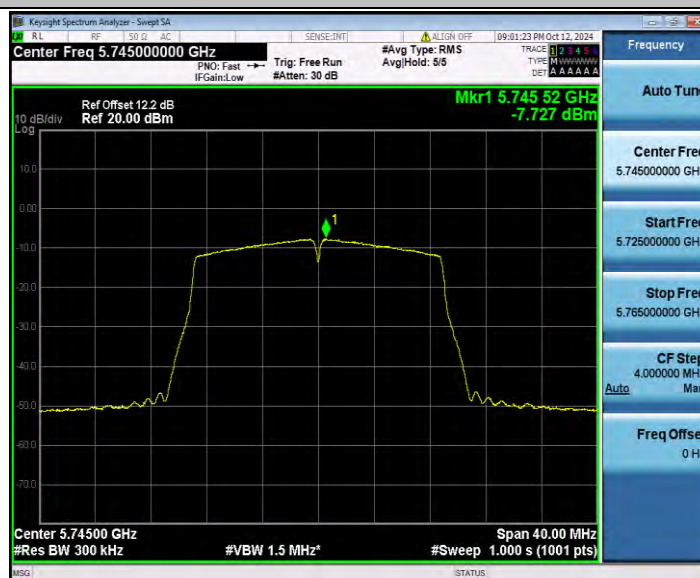
11N40SISO_Ant1_5755



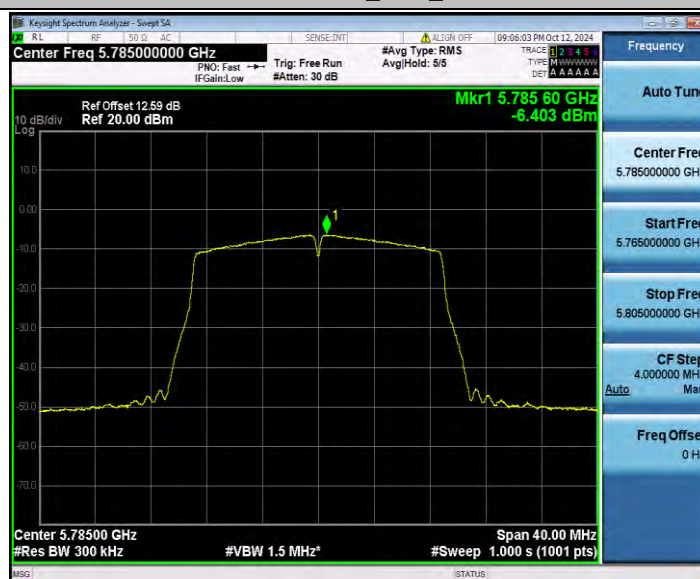
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



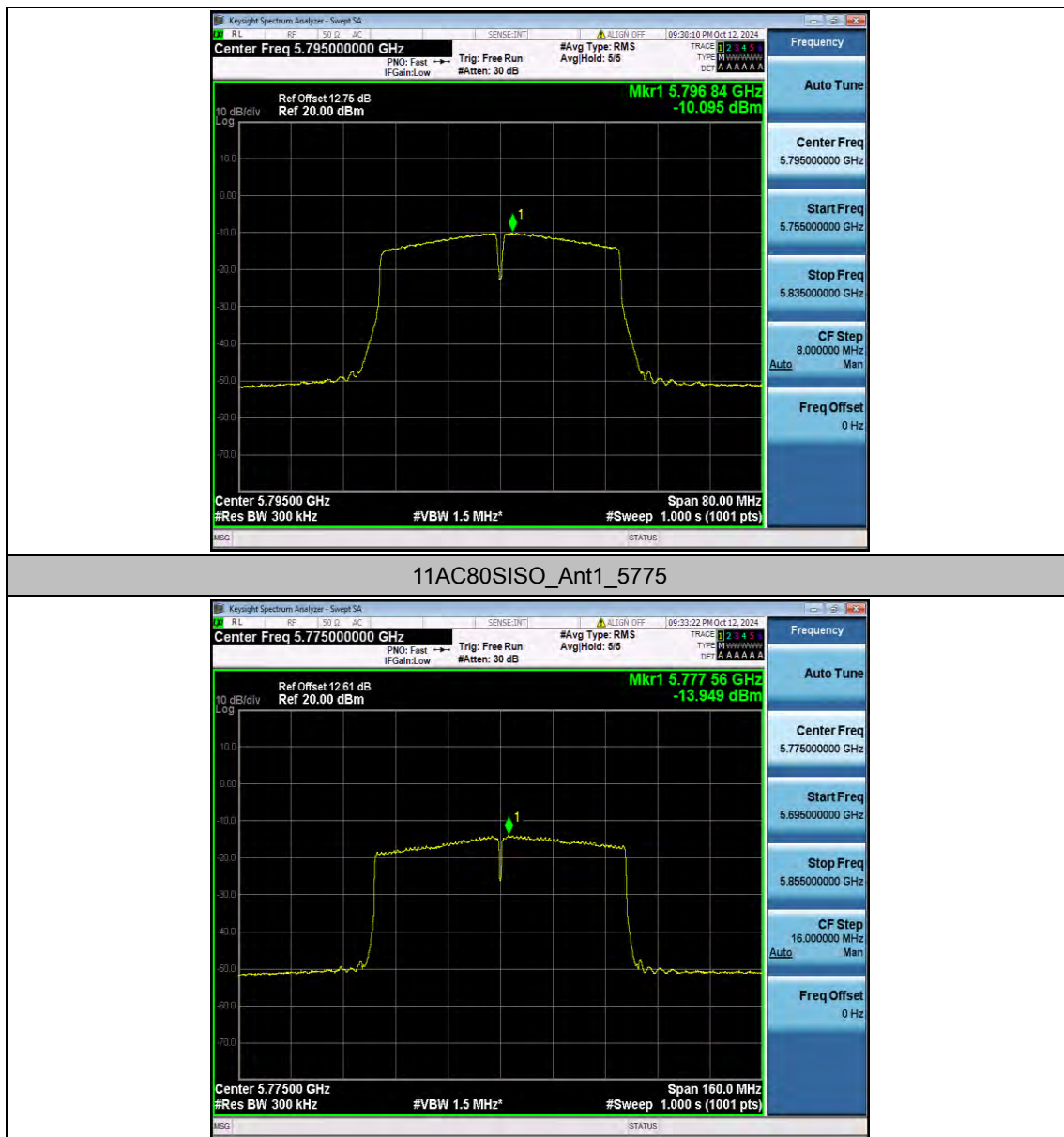
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



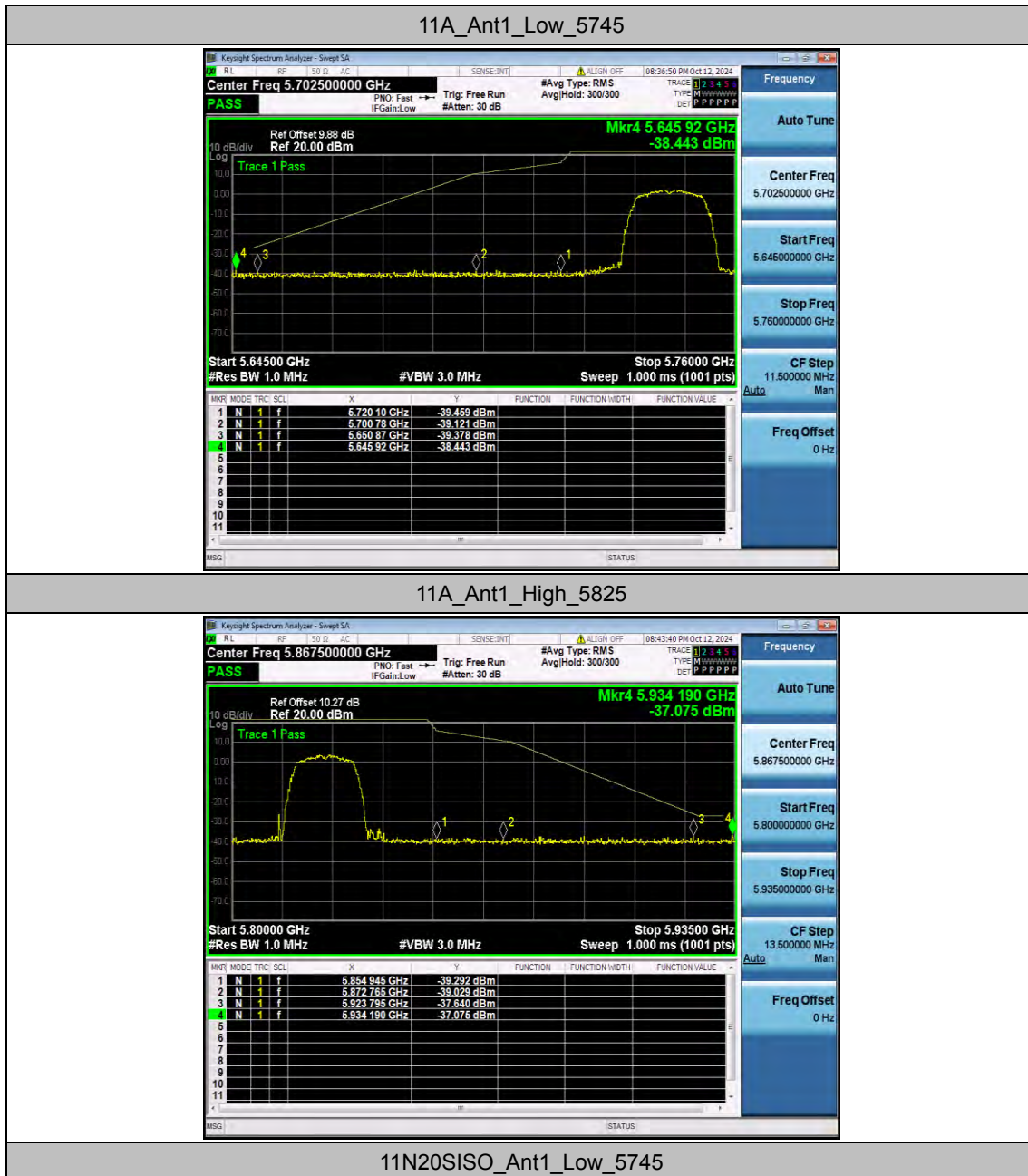
Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-39.38	≤-26.36	PASS
				5700~5720	-39.12	≤10.22	PASS
				5720~5725	-39.46	≤15.82	PASS
				5760~5650	-38.44	≤-27	PASS
		High	5825	5850~5855	-39.29	≤15.73	PASS
				5855~5875	-39.03	≤10.63	PASS
				5875~5925	-37.64	≤-26.11	PASS
				5925~5935	-37.08	≤-27	PASS
11N20SIS O	Ant1	Low	5745	5650~5700	-39.31	≤-26.79	PASS
				5700~5720	-40.16	≤10.09	PASS
				5720~5725	-38.76	≤15.82	PASS
				5760~5650	-38.49	≤-27	PASS
		High	5825	5850~5855	-38.44	≤16.96	PASS
				5855~5875	-38.41	≤10.25	PASS
				5875~5925	-38.32	≤-26.81	PASS
				5925~5935	-37.56	≤-27	PASS
11N40SIS O	Ant1	Low	5755	5650~5700	-39.39	≤-26.50	PASS
				5700~5720	-38.79	≤11.23	PASS
				5720~5725	-36.26	≤16.04	PASS
				5780~5650	-39.53	≤-27	PASS
		High	5795	5850~5855	-39.75	≤16.03	PASS
				5855~5875	-38.55	≤10.29	PASS
				5875~5925	-39.5	≤-26.95	PASS
				5925~5935	-38.13	≤-27	PASS
11AC20SI SO	Ant1	Low	5745	5650~5700	-40.13	≤-26.53	PASS
				5700~5720	-39.44	≤10.22	PASS
				5720~5725	-40.61	≤16.08	PASS
				5760~5650	-39	≤-27	PASS
		High	5825	5850~5855	-39.39	≤15.73	PASS
				5855~5875	-39.17	≤10.10	PASS
				5875~5925	-38.66	≤-26.61	PASS
				5925~5935	-38.12	≤-27	PASS
11AC40SI SO	Ant1	Low	5755	5650~5700	-40.16	≤-26.70	PASS
				5700~5720	-39.5	≤10.10	PASS
				5720~5725	-37.37	≤16.35	PASS
				5780~5650	-39.72	≤-27	PASS

		High	5795	5850~5855	-40.09	≤ 15.66	PASS
				5855~5875	-37.8	≤ 10.80	PASS
				5875~5925	-39.77	≤ -26.95	PASS
				5925~5935	-38.36	≤ -27	PASS
11AC80SI SO	Ant1	Low	5775	5650~5700	-39.91	≤ -26.46	PASS
				5700~5720	-38.2	≤ 10.40	PASS
				5720~5725	-37.43	≤ 16.00	PASS
				5800~5650	-39.31	≤ -27	PASS
		High	5775	5850~5855	-38.74	≤ 17.10	PASS
				5855~5875	-39.33	≤ 10.40	PASS
				5875~5925	-40.7	≤ -26.87	PASS
				5925~5935	-38.61	≤ -27	PASS

Test Graphs B4





11N20SISO_Ant1_High_5825



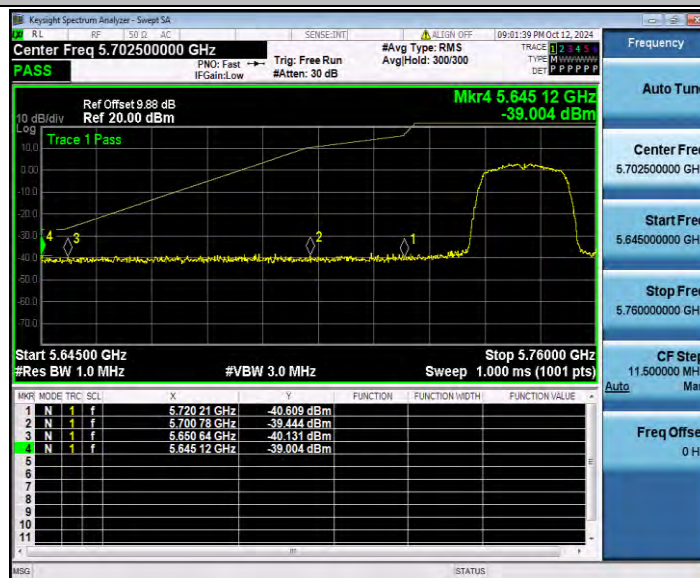
11N40SISO_Ant1_Low_5755



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



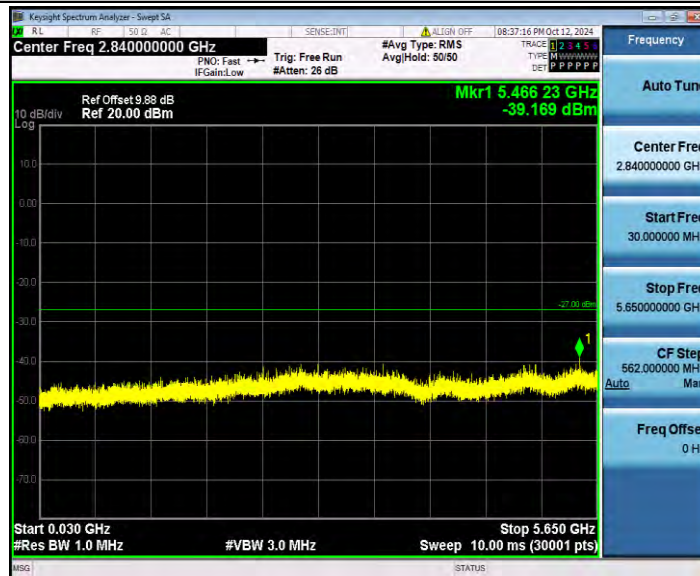
Appendix E.7: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5466.23	-39.17	≤-27	PASS
			5925~27000	25670.17	-31.74	≤-27	PASS
		5785	30~5650	3044.01	-39.66	≤-27	PASS
			5925~27000	26537.76	-30.68	≤-27	PASS
		5825	30~5650	2806.47	-40.57	≤-27	PASS
			5925~27000	26787.85	-30.45	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5377.24	-40.3	≤-27	PASS
			5925~27000	25479.79	-31.43	≤-27	PASS
		5785	30~5650	5494.7	-39.65	≤-27	PASS
			5925~27000	25536.69	-31.63	≤-27	PASS
		5825	30~5650	5462.67	-39.28	≤-27	PASS
			5925~27000	24392.32	-31.08	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5429.88	-39.98	≤-27	PASS
			5925~27000	26015.1	-31.75	≤-27	PASS
		5795	30~5650	5216.32	-39.91	≤-27	PASS
			5925~27000	26521.6	-30.39	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5487.96	-39.98	≤-27	PASS
			5925~27000	24235.66	-31.6	≤-27	PASS
		5785	30~5650	3051.5	-39.69	≤-27	PASS
			5925~27000	26890.41	-31.61	≤-27	PASS
		5825	30~5650	5515.68	-40.11	≤-27	PASS
			5925~27000	24265.87	-31.5	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5422.02	-40.17	≤-27	PASS
			5925~27000	24265.87	-31.55	≤-27	PASS
		5795	30~5650	5564.95	-40.06	≤-27	PASS
			5925~27000	24288.35	-31.46	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	825.42	-36.1	≤-27	PASS
			5925~27000	23525.44	-32.2	≤-27	PASS

Test Graphs

11A_Ant1_5745_30~5650



11A_Ant1_5745_5925~27000



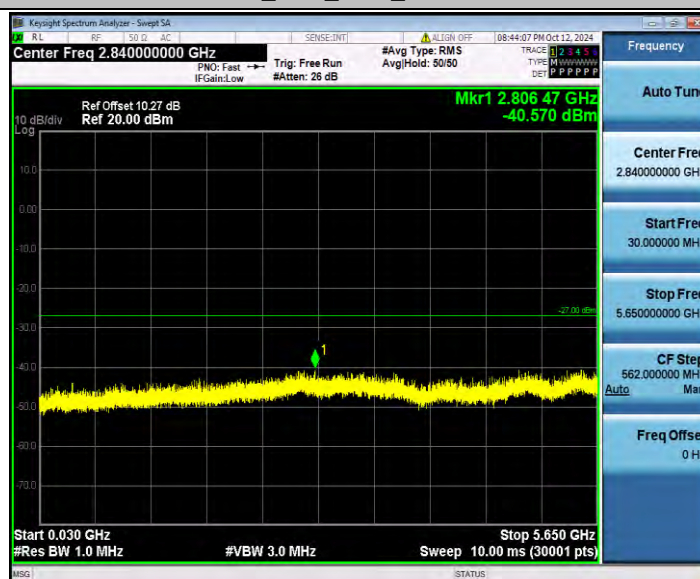
11A_Ant1_5785_30~5650



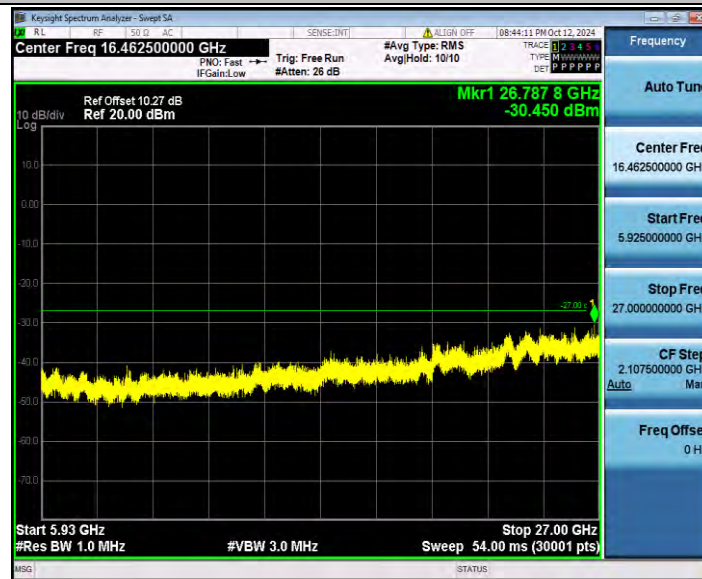
11A_Ant1_5785_5925~27000



11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~27000



11N20SISO_Ant1_5745_30~5650



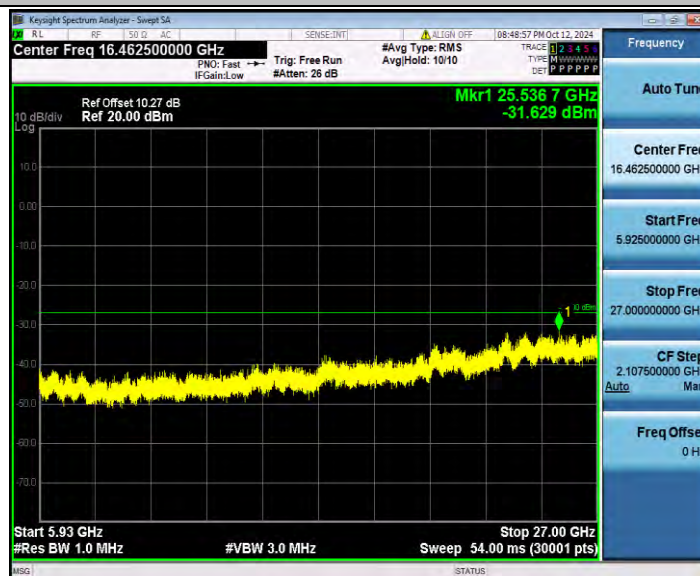
11N20SISO_Ant1_5745_5925~27000



11N20SISO_Ant1_5785_30~5650



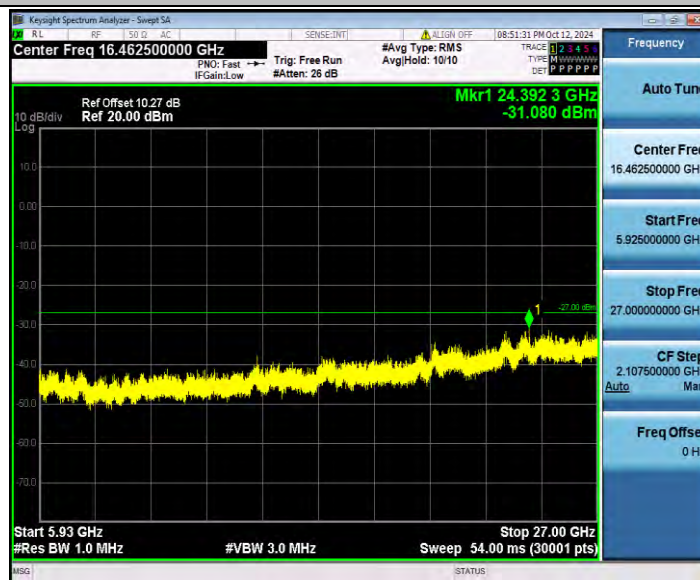
11N20SISO_Ant1_5785_5925~27000



11N20SISO_Ant1_5825_30~5650



11N20SISO_Ant1_5825_5925~27000



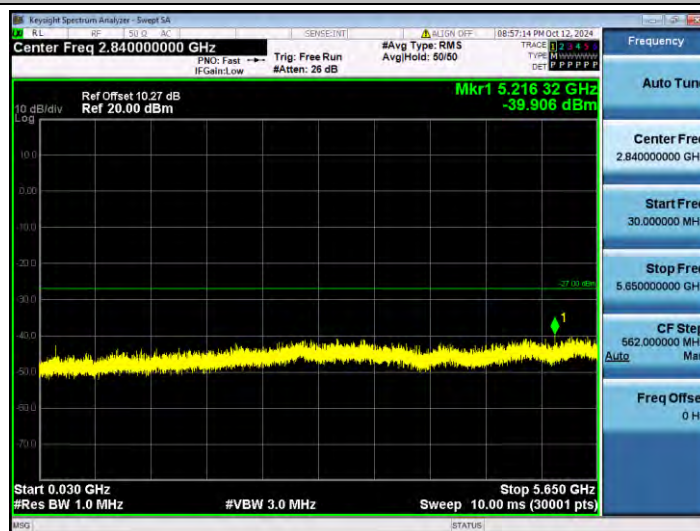
11N40SISO_Ant1_5755_30~5650



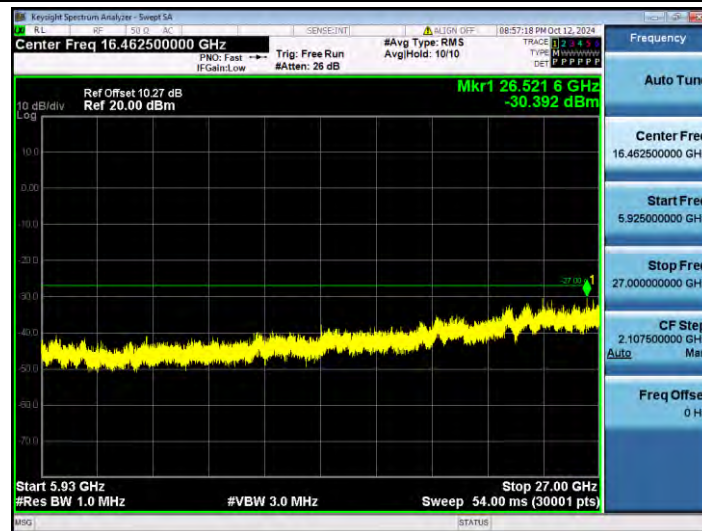
11N40SISO_Ant1_5755_5925~27000



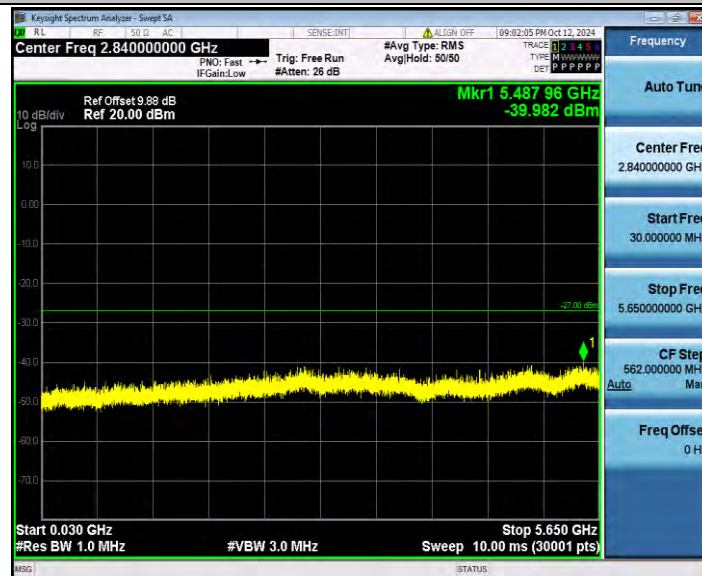
11N40SISO_Ant1_5795_30~5650



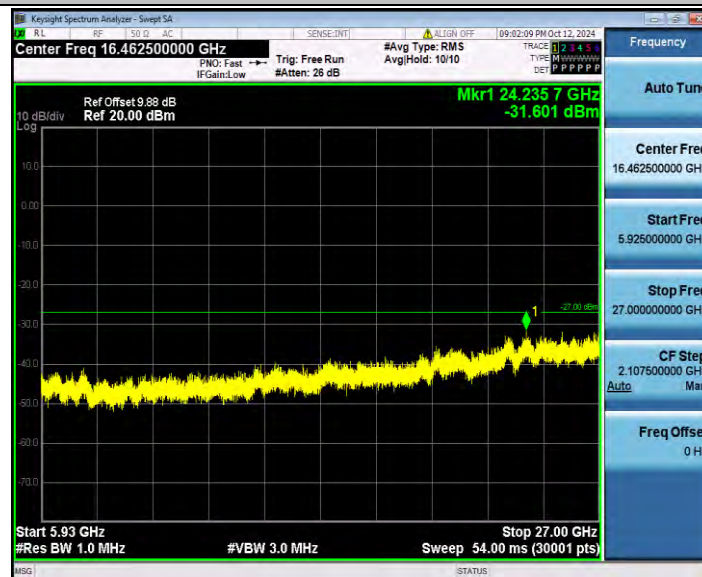
11N40SISO_Ant1_5795_5925~27000



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



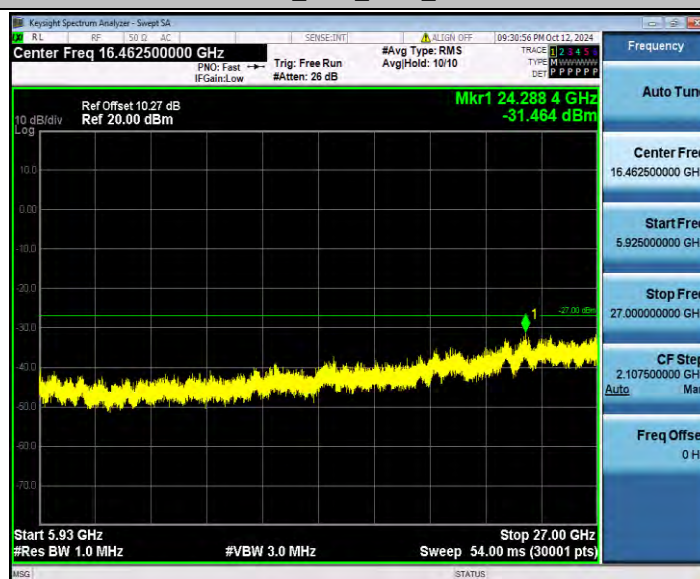
11AC40SISO_Ant1_5755_5925~27000



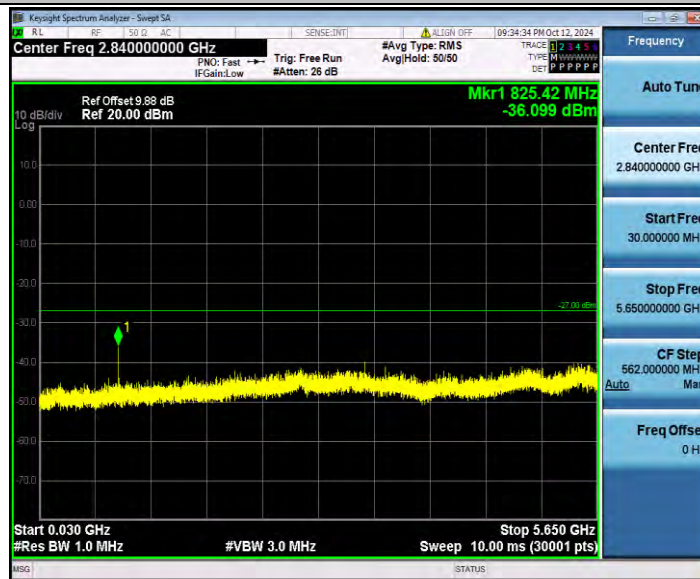
11AC40SISO_Ant1_5795_30~5650



11AC40SISO_Ant1_5795_5925~27000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~27000



Appendix E.8: Emissions in Restricted Bands

Test Result

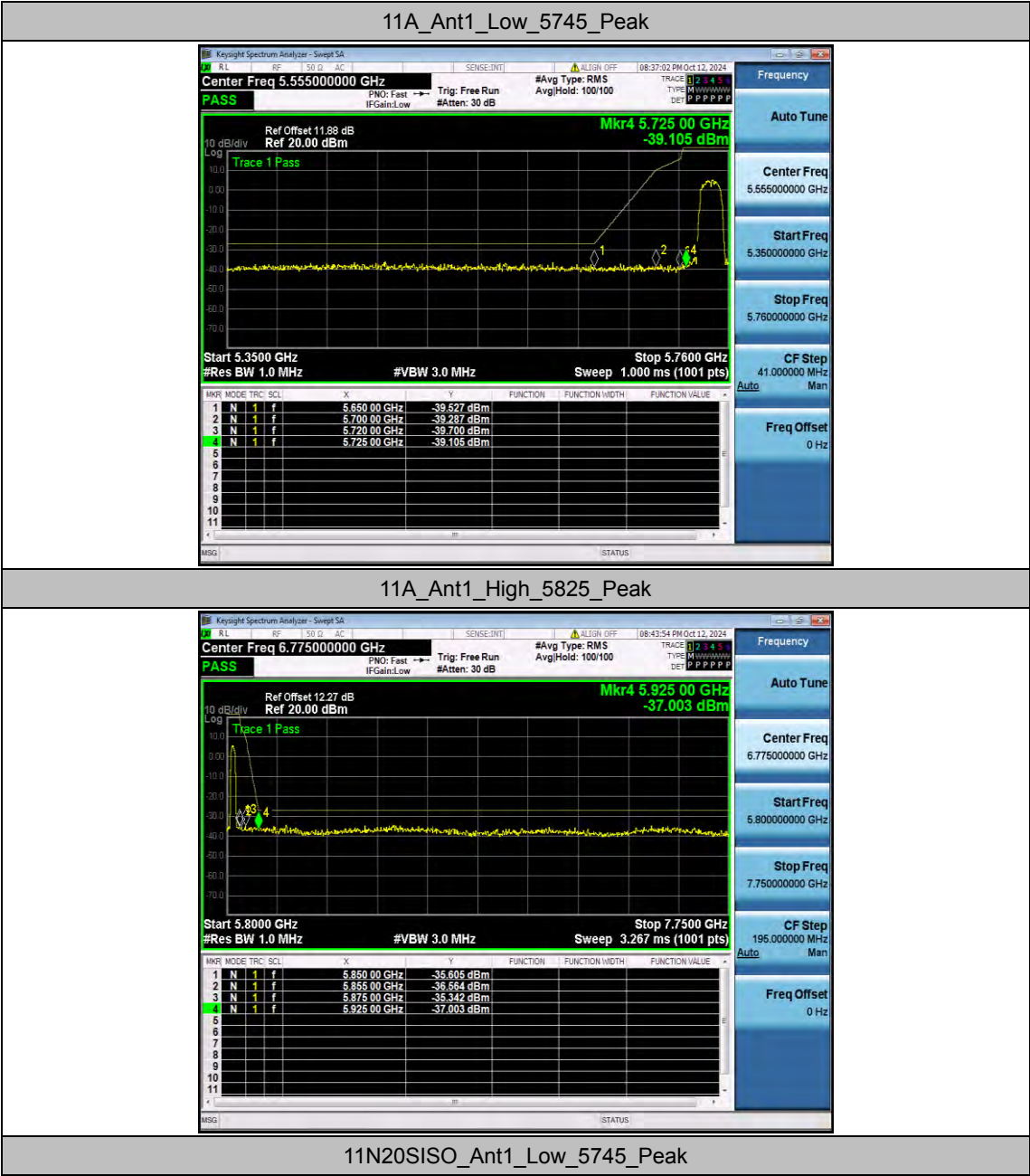
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-39.527	≤-27.00	PASS
				Peak	5700.000	-39.29	≤10.00	PASS
				Peak	5720.000	-39.7	≤15.60	PASS
				Peak	5725.000	-39.11	≤27.00	PASS
		High	5825	Peak	5850.000	-35.605	≤27.00	PASS
				Peak	5855.000	-36.56	≤15.60	PASS
				Peak	5875.000	-35.34	≤10.00	PASS
				Peak	5925.000	-37	≤-27.00	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-40.686	≤-27.00	PASS
				Peak	5700.000	-38.23	≤10.00	PASS
				Peak	5720.000	-40.01	≤15.60	PASS
				Peak	5725.000	-39.93	≤27.00	PASS
		High	5825	Peak	5850.000	-36.212	≤27.00	PASS
				Peak	5855.000	-37.41	≤15.60	PASS
				Peak	5875.000	-37.06	≤10.00	PASS
				Peak	5925.000	-35.94	≤-27.00	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-39.544	≤-27.00	PASS
				Peak	5700.000	-39.18	≤10.00	PASS
				Peak	5720.000	-39.85	≤15.60	PASS
				Peak	5725.000	-38.36	≤27.00	PASS
		High	5795	Peak	5850.000	-36.579	≤27.00	PASS
				Peak	5855.000	-36.59	≤15.60	PASS
				Peak	5875.000	-35.32	≤10.00	PASS
				Peak	5925.000	-36.06	≤-27.00	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-39.968	≤-27.00	PASS
				Peak	5700.000	-40.3	≤10.00	PASS
				Peak	5720.000	-39.51	≤15.60	PASS
				Peak	5725.000	-38.41	≤27.00	PASS
		High	5825	Peak	5850.000	-37.136	≤27.00	PASS
				Peak	5855.000	-36.04	≤15.60	PASS
				Peak	5875.000	-36.48	≤10.00	PASS
				Peak	5925.000	-37.07	≤-27.00	PASS
11AC40SISO	Ant1	Low	5755	Peak	5650.000	-41.354	≤-27.00	PASS

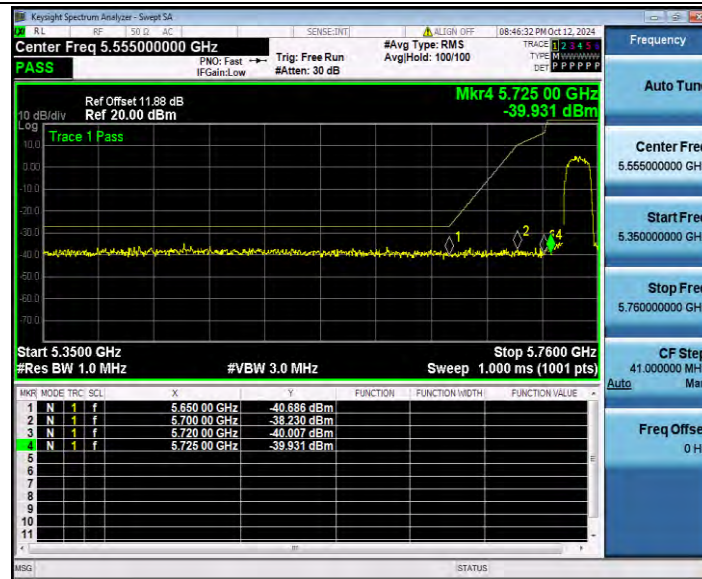
				Peak	5700.000	-38.71	≤ 10.00	PASS
				Peak	5720.000	-37.87	≤ 15.60	PASS
				Peak	5725.000	-37.54	≤ 27.00	PASS
		High	5795	Peak	5850.000	-37.465	≤ 27.00	PASS
				Peak	5855.000	-35.81	≤ 15.60	PASS
				Peak	5875.000	-36.08	≤ 10.00	PASS
				Peak	5925.000	-36.57	≤ 27.00	PASS
11AC80SISO	Ant1	Low	5775	Peak	5650.000	-38.898	≤ 27.00	PASS
				Peak	5700.000	-38.54	≤ 10.00	PASS
				Peak	5720.000	-39.31	≤ 15.60	PASS
				Peak	5725.000	-37.97	≤ 27.00	PASS
		High	5775	Peak	5850.000	-37.415	≤ 27.00	PASS
				Peak	5855.000	-37.28	≤ 15.60	PASS
				Peak	5875.000	-37.59	≤ 10.00	PASS
				Peak	5925.000	-35.43	≤ 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





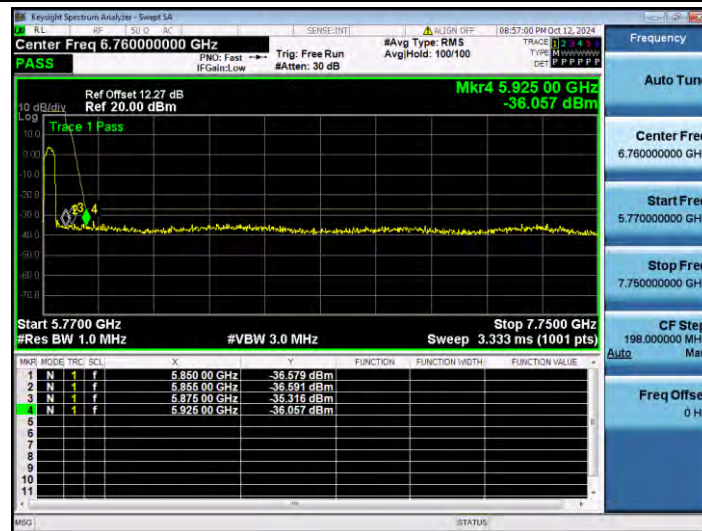
11N20SISO_Ant1_High_5825_Peak



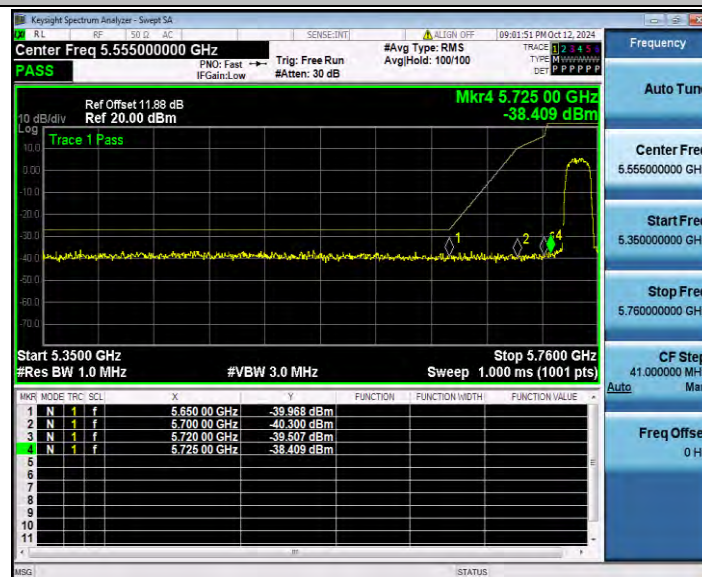
11N40SISO_Ant1_Low_5755_Peak



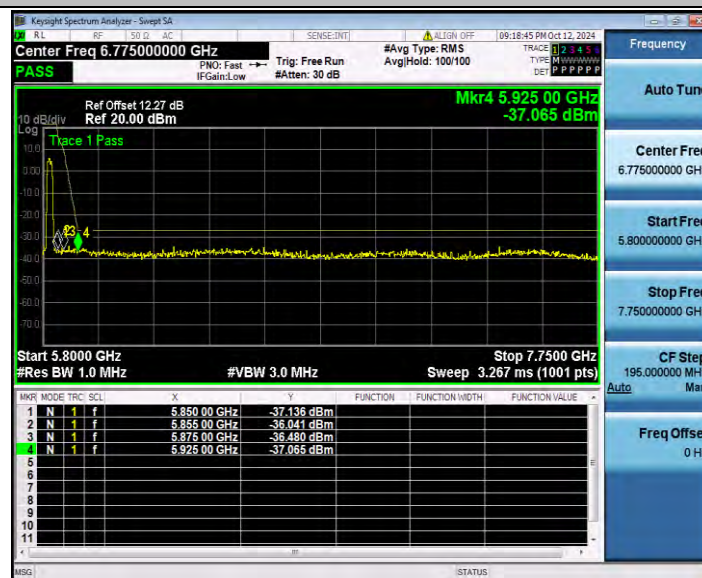
11N40SISO_Ant1_High_5795_Peak



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

