

Case No. : <u>CTA24050902504</u>	
Ambient Condition: <u>23</u> °C, <u>51</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.3.20</u>	Test Engineer: <u>Evan ouyang</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	16.520	5736.720	5753.240	0.5	PASS
		5785	16.560	5776.720	5793.280	0.5	PASS
		5825	16.520	5816.720	5833.240	0.5	PASS
11N20SISO	Ant1	5745	17.800	5736.080	5753.880	0.5	PASS
		5785	17.800	5776.080	5793.880	0.5	PASS
		5825	17.800	5816.080	5833.880	0.5	PASS
11N40SISO	Ant1	5755	36.560	5736.680	5773.240	0.5	PASS
		5795	36.560	5776.680	5813.240	0.5	PASS
11AC20SISO	Ant1	5745	17.800	5736.080	5753.880	0.5	PASS
		5785	17.800	5776.080	5793.880	0.5	PASS
		5825	17.800	5816.080	5833.880	0.5	PASS
11AC40SISO	Ant1	5755	36.560	5736.680	5773.240	0.5	PASS
		5795	36.480	5776.760	5813.240	0.5	PASS
11AC80SISO	Ant1	5775	76.480	5736.760	5813.240	0.5	PASS

Test Graphs B4

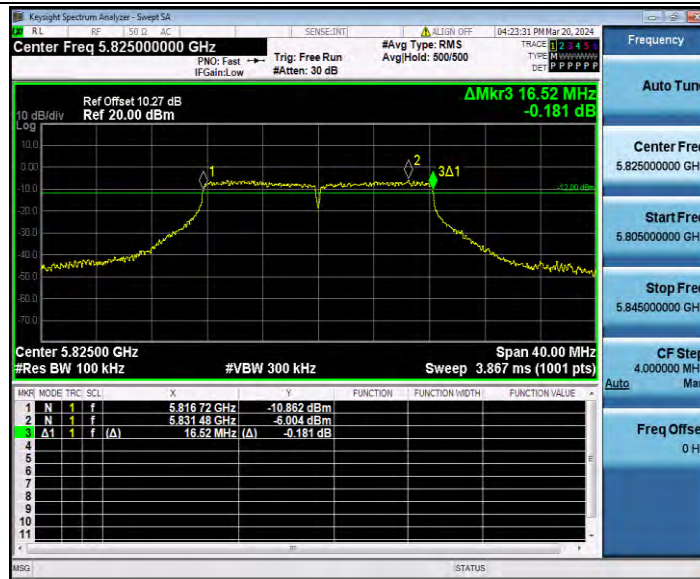
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



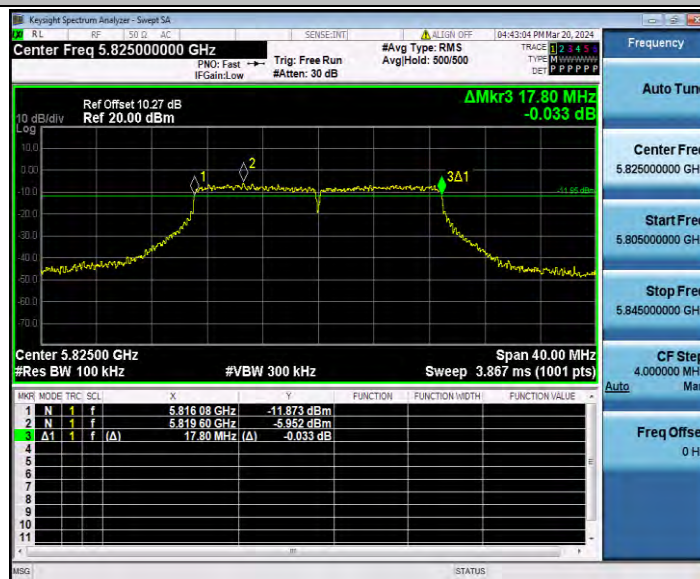
11N20SISO_Ant1_5745



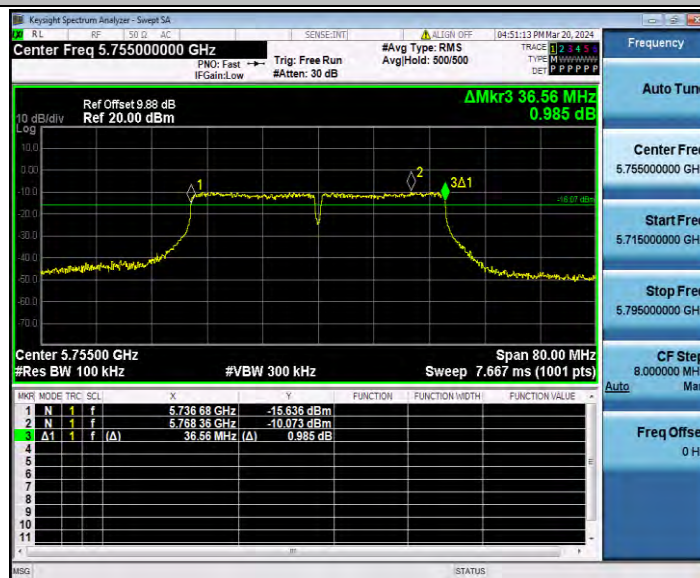
11N20SISO_Ant1_5785



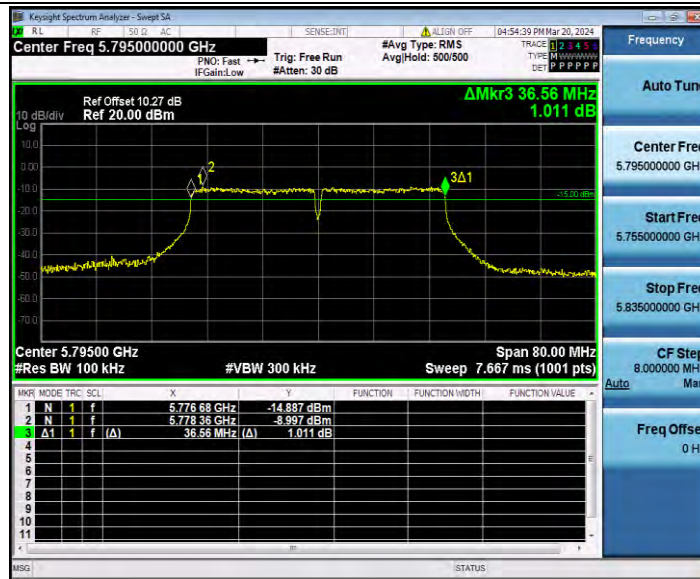
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11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



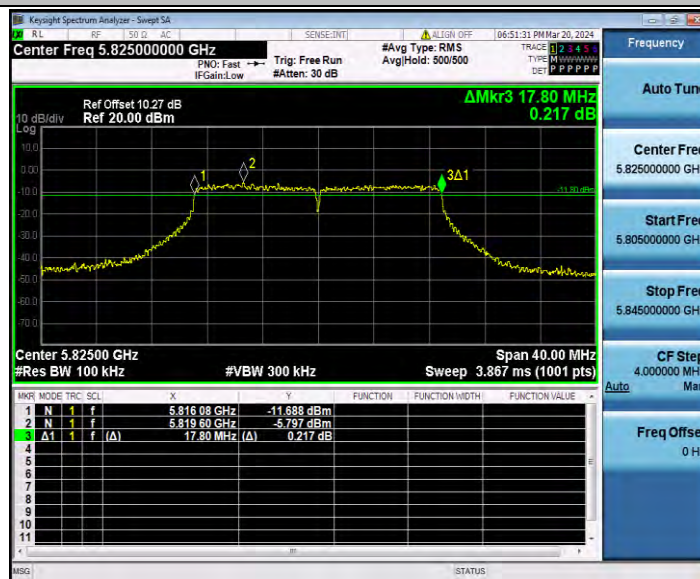
11AC20SISO_Ant1_5745



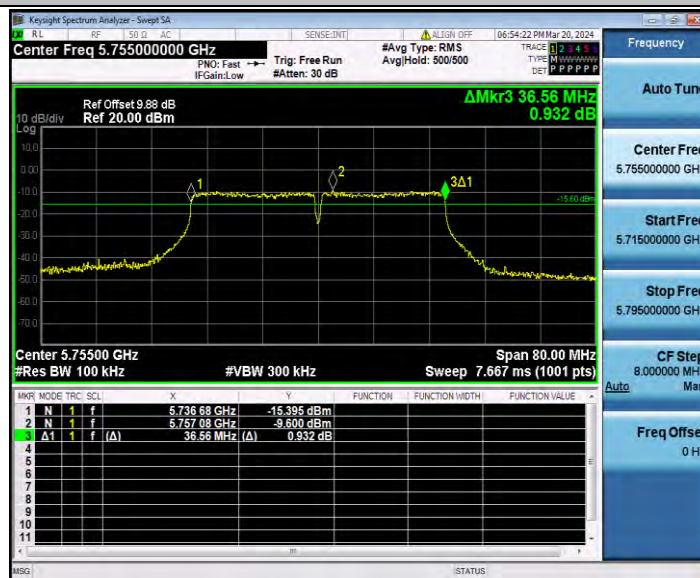
11AC20SISO_Ant1_5785



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]
11A	Ant1	5745	17.329	5736.1720	5753.5010
		5785	17.337	5776.1926	5793.5296
		5825	17.335	5816.1740	5833.5090
11N20SISO	Ant1	5745	18.362	5735.7285	5754.0905
		5785	18.340	5775.7707	5794.1107
		5825	18.371	5815.7287	5834.0997
11N40SISO	Ant1	5755	37.392	5736.2753	5773.6673
		5795	37.289	5776.3596	5813.6486
11AC20SISO	Ant1	5745	18.386	5735.7413	5754.1273
		5785	18.377	5775.7671	5794.1441
		5825	18.376	5815.7291	5834.1051
11AC40SISO	Ant1	5755	37.449	5736.2248	5773.6738
		5795	37.330	5776.3150	5813.6450
11AC80SISO	Ant1	5775	76.431	5736.7581	5813.1891

Test Graphs

11A_Ant1_5745



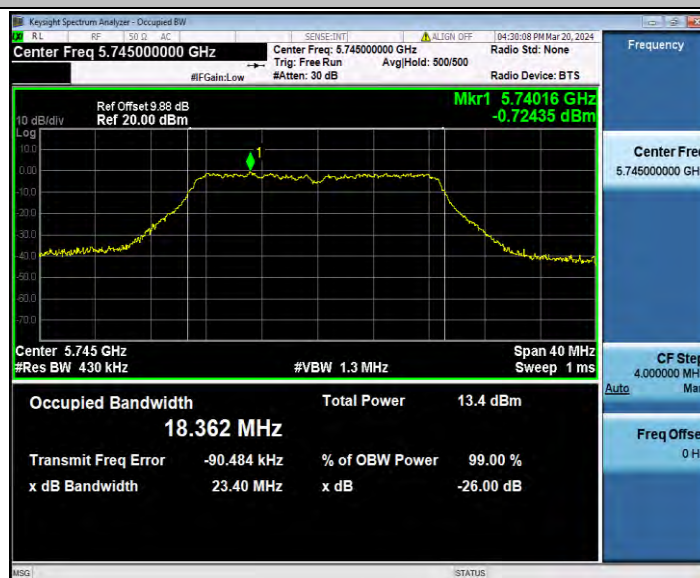
11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



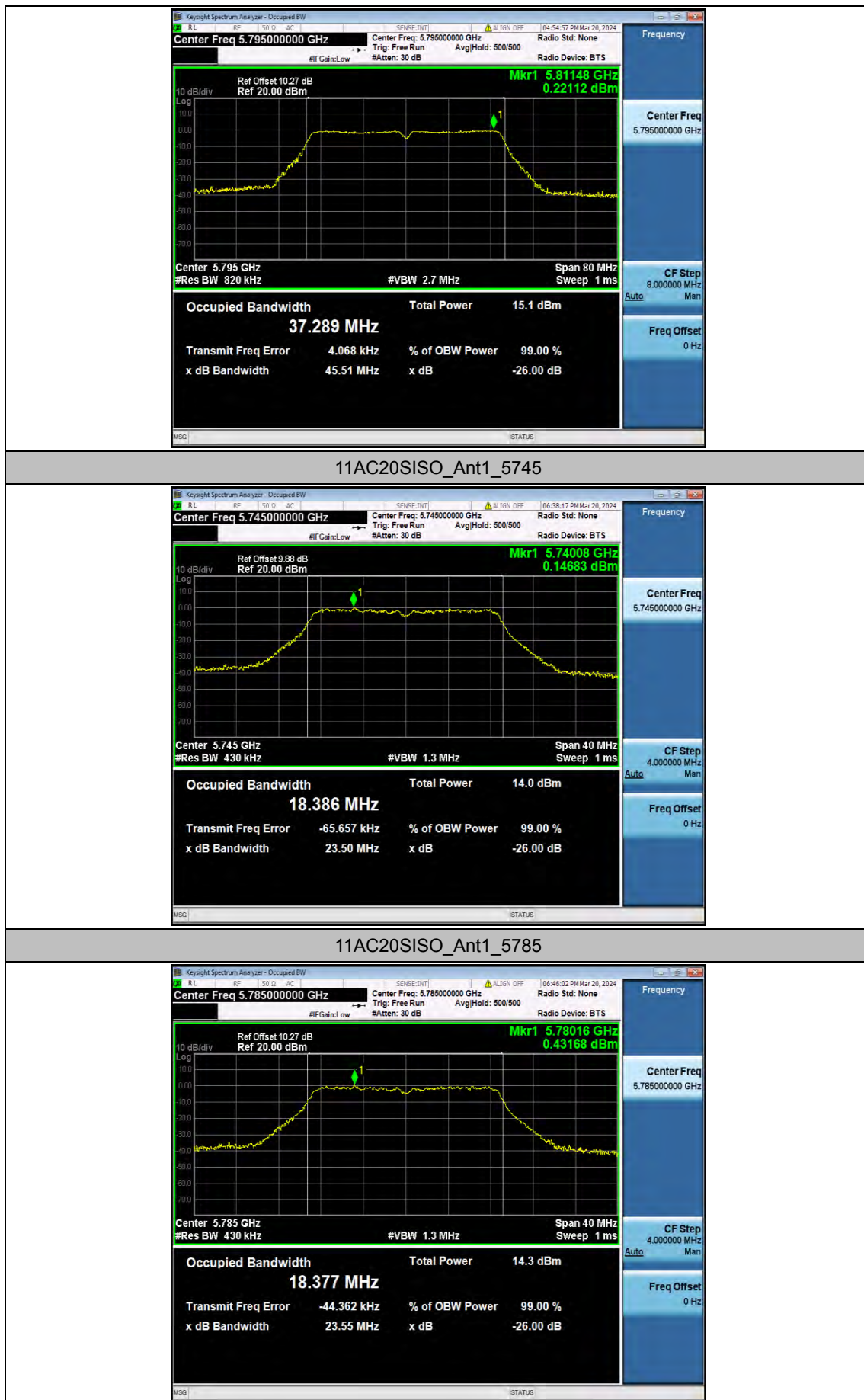
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



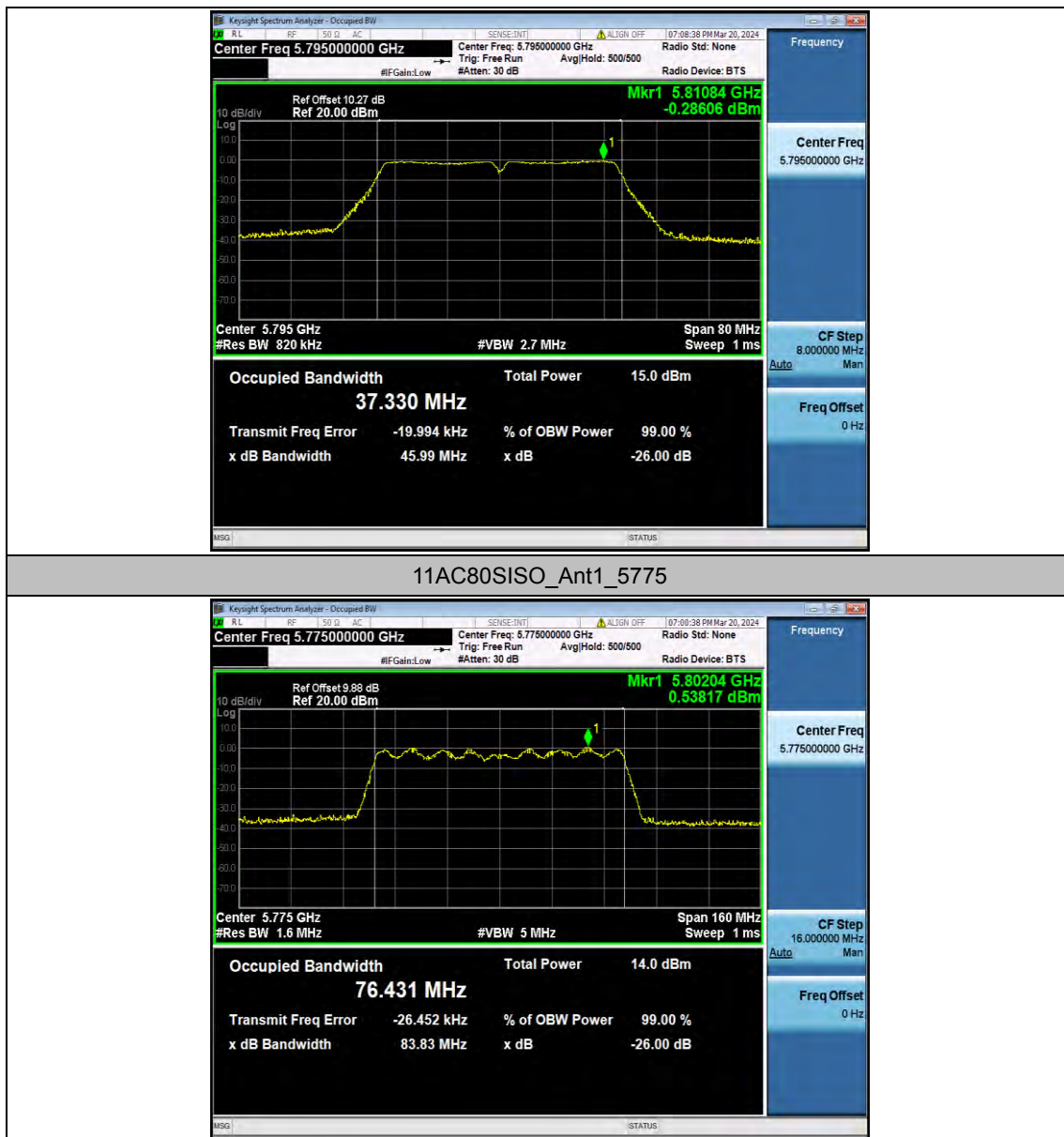
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



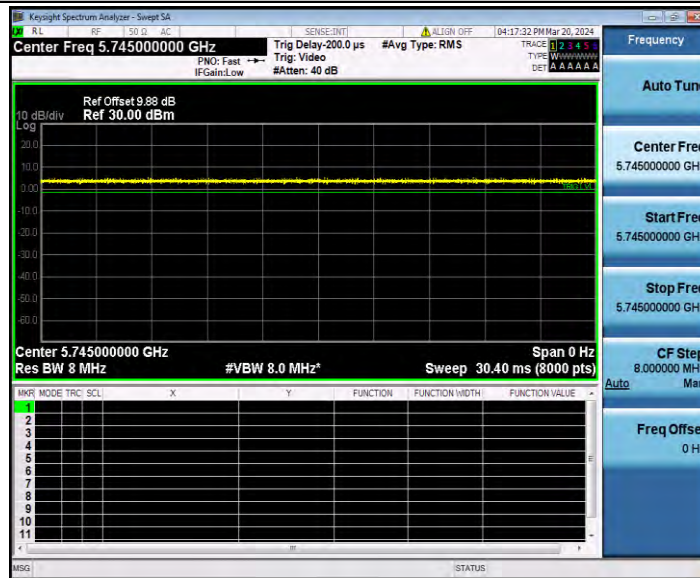
Appendix E.3: Duty Cycle

Test Result

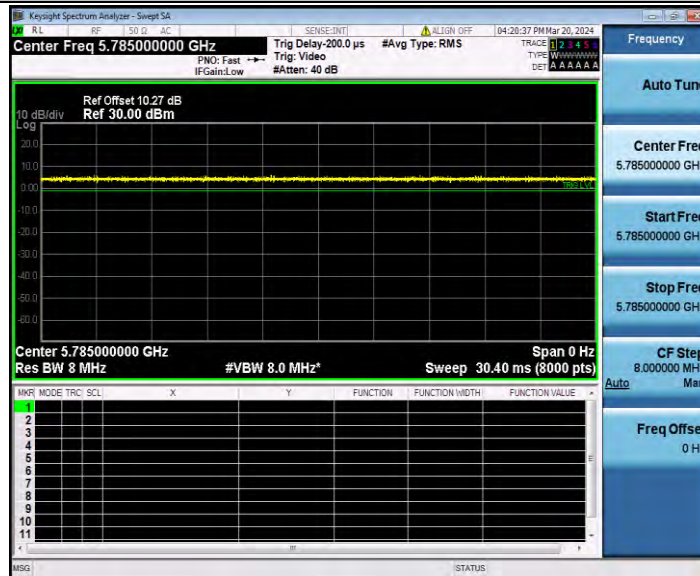
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Factor[KHz]
11A	Ant1	5745	30.00	30.00	100.00	0.03
		5785	30.00	30.00	100.00	0.03
		5825	30.00	30.00	100.00	0.03
11N20SISO	Ant1	5745	30.00	30.00	100.00	0.03
		5785	30.00	30.00	100.00	0.03
		5825	30.00	30.00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

Test Graphs

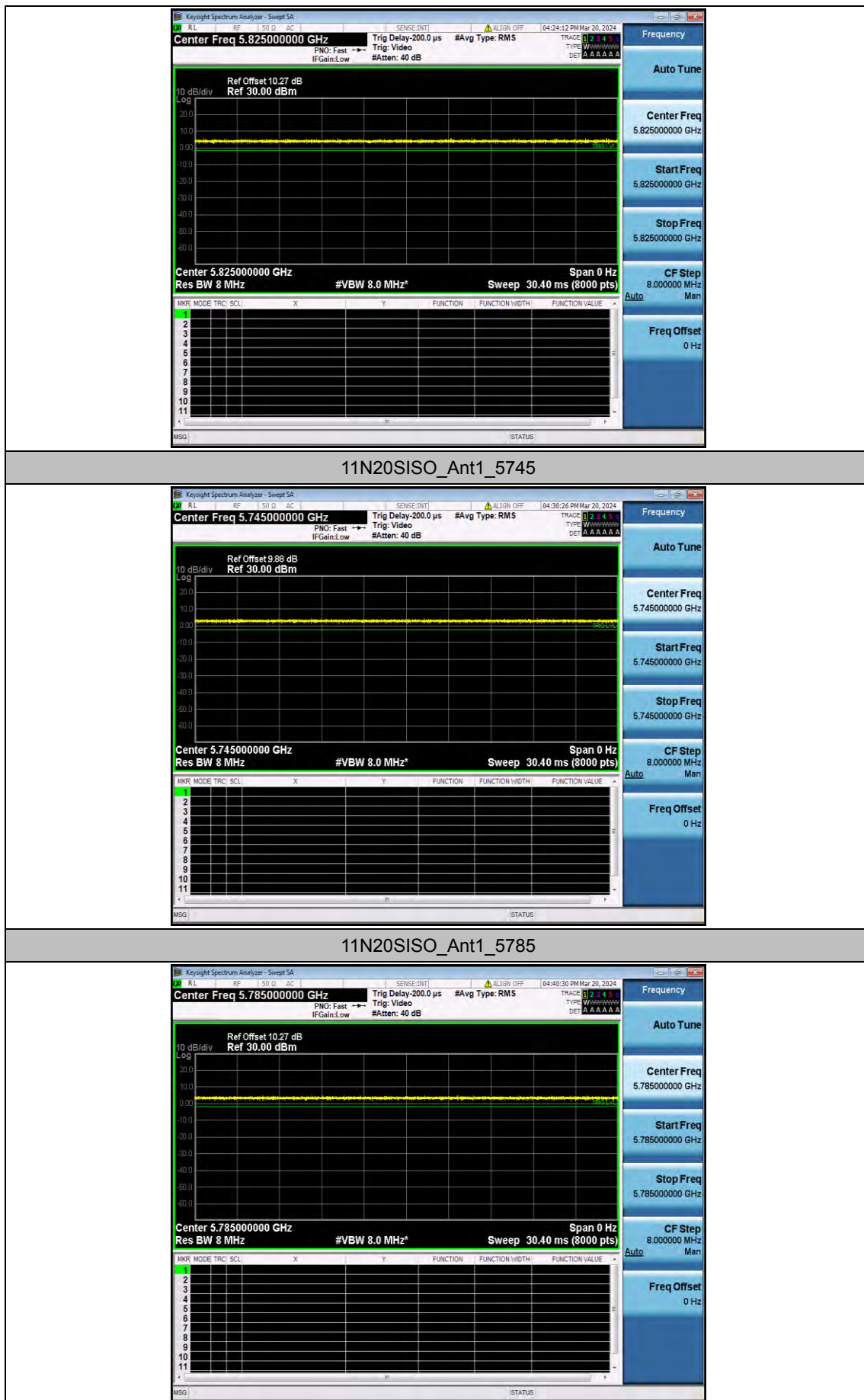
11A_Ant1_5745



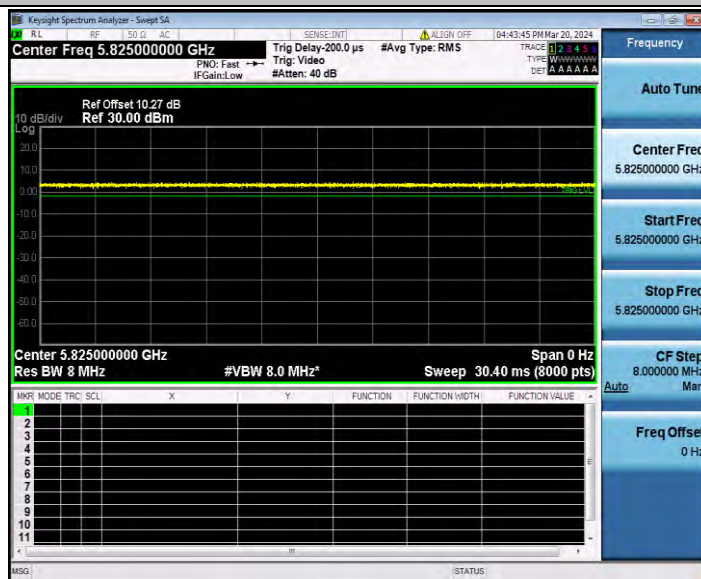
11A_Ant1_5785



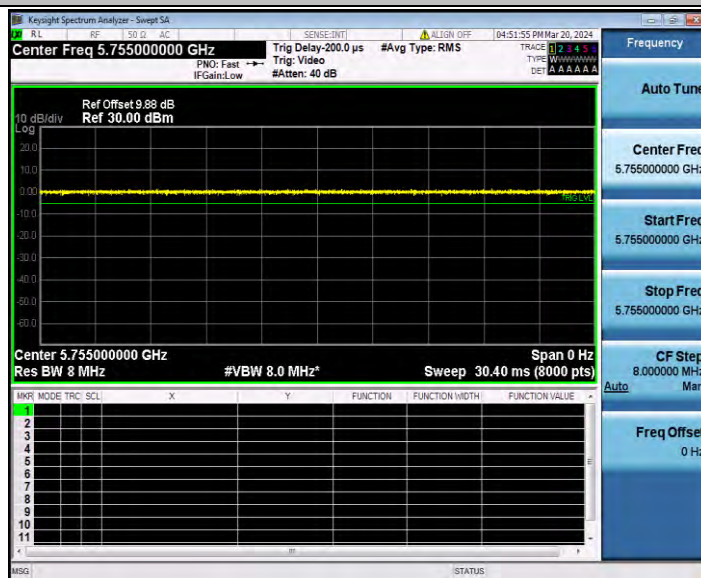
11A_Ant1_5825



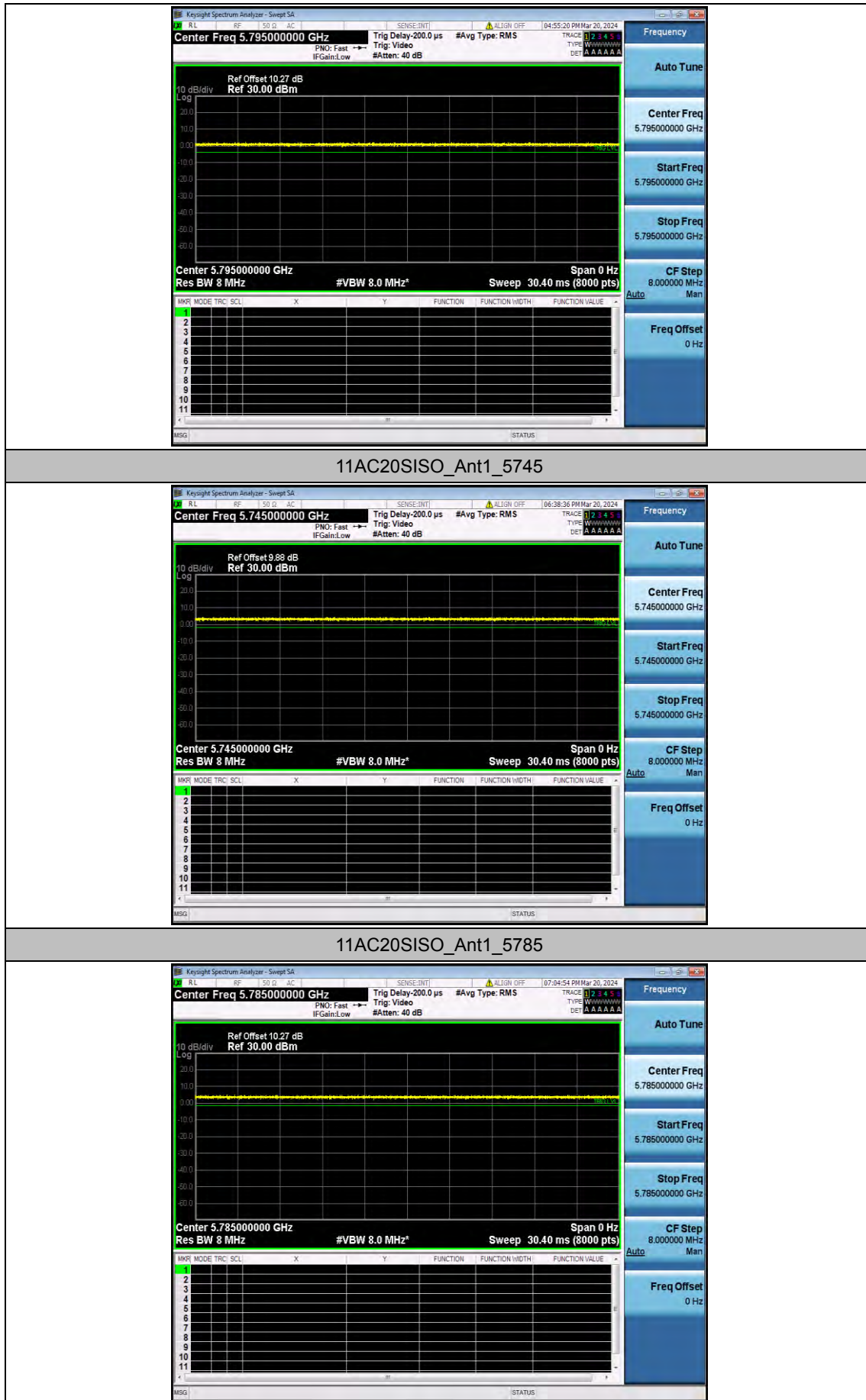
11N20SISO_Ant1_5825



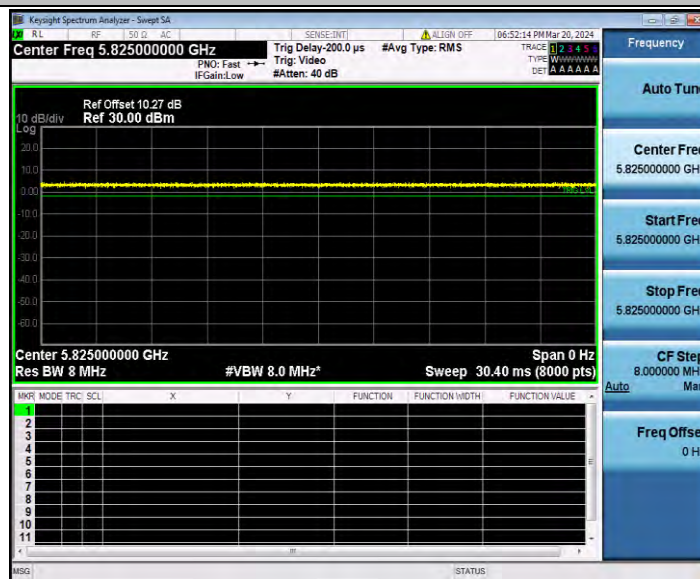
11N40SISO_Ant1_5755



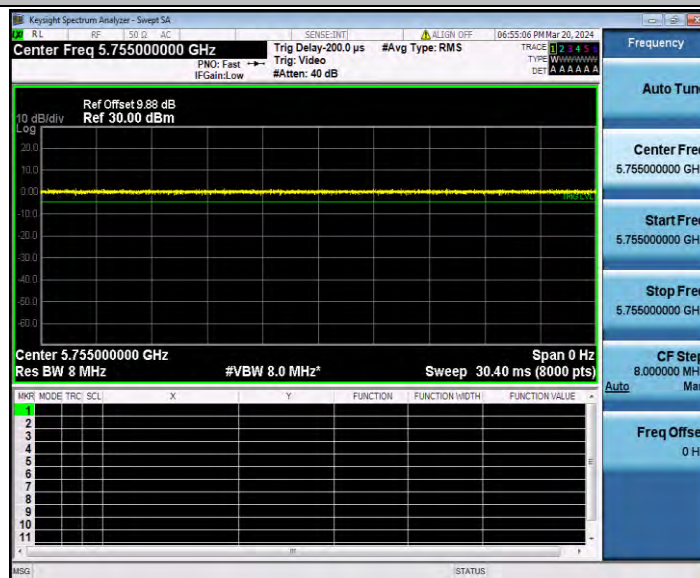
11N40SISO_Ant1_5795



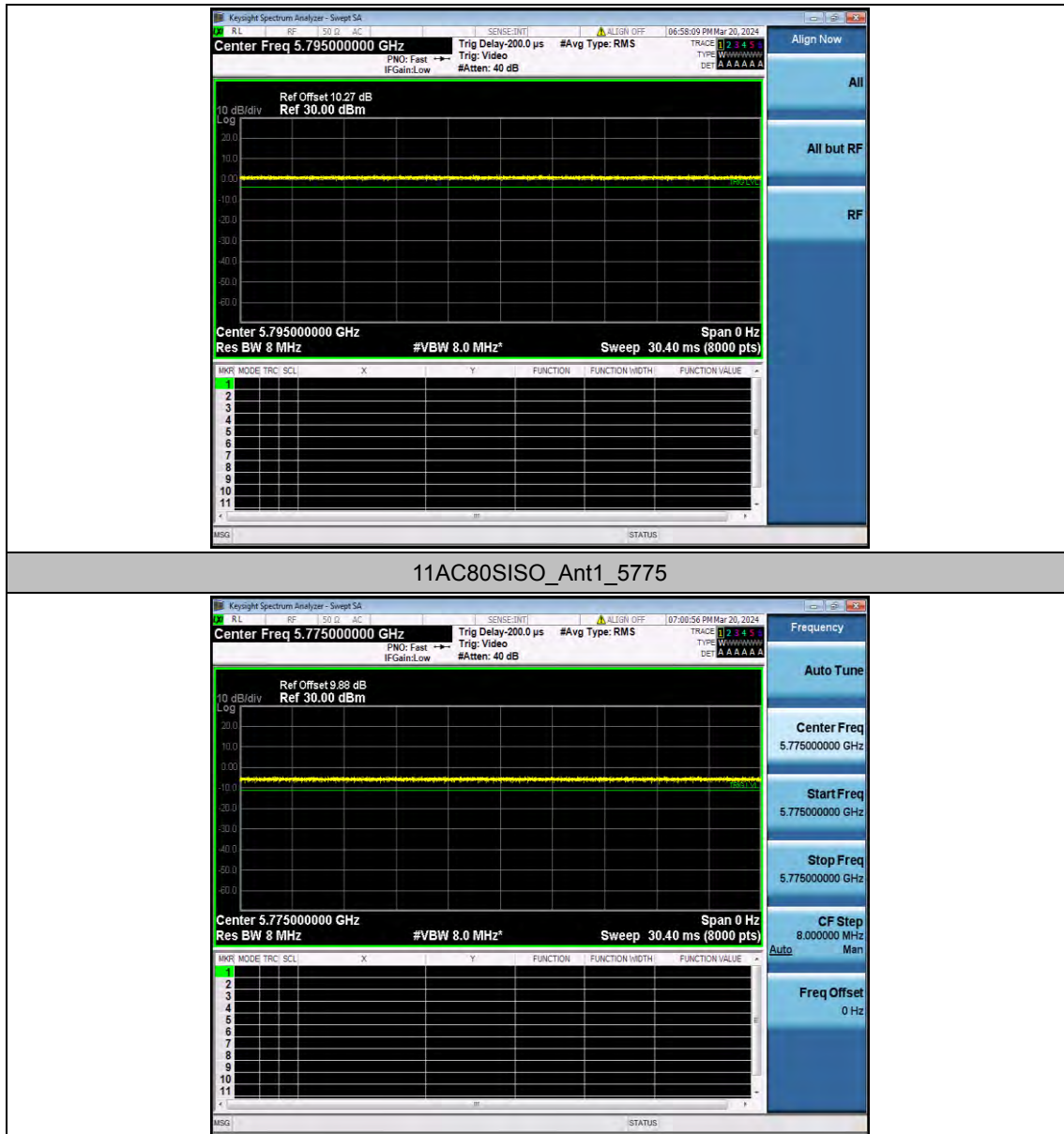
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix E.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	6.46	100.00	6.46	≤30.00	PASS
		5785	6.95	100.00	6.95	≤30.00	PASS
		5825	6.76	100.00	6.76	≤30.00	PASS
11N20SISO	Ant1	5745	6.75	100.00	6.75	≤30.00	PASS
		5785	6.55	100.00	6.55	≤30.00	PASS
		5825	6.54	100.00	6.54	≤30.00	PASS
11N40SISO	Ant1	5755	6.07	100.00	6.07	≤30.00	PASS
		5795	6.86	100.00	6.86	≤30.00	PASS
11AC20SISO	Ant1	5745	6.51	100.00	6.51	≤30.00	PASS
		5785	6.40	100.00	6.40	≤30.00	PASS
		5825	6.63	100.00	6.63	≤30.00	PASS
11AC40SISO	Ant1	5755	6.12	100.00	6.12	≤30.00	PASS
		5795	6.74	100.00	6.74	≤30.00	PASS
11AC80SISO	Ant1	5775	5.23	100.00	5.23	≤30.00	PASS

Note:

1. The Duty Cycle Factor is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the data.

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-7.07	≤30.00	PASS
		5785	-6.28	≤30.00	PASS
		5825	-6.58	≤30.00	PASS
11N20SISO	Ant1	5745	-7.75	≤30.00	PASS
		5785	-7.02	≤30.00	PASS
		5825	-7.12	≤30.00	PASS
11N40SISO	Ant1	5755	-10.47	≤30.00	PASS
		5795	-9.69	≤30.00	PASS
11AC20SISO	Ant1	5745	-7.23	≤30.00	PASS
		5785	-7.00	≤30.00	PASS
		5825	-7.17	≤30.00	PASS
11AC40SISO	Ant1	5755	-10.58	≤30.00	PASS
		5795	-9.80	≤30.00	PASS
11AC80SISO	Ant1	5775	-14.34	≤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

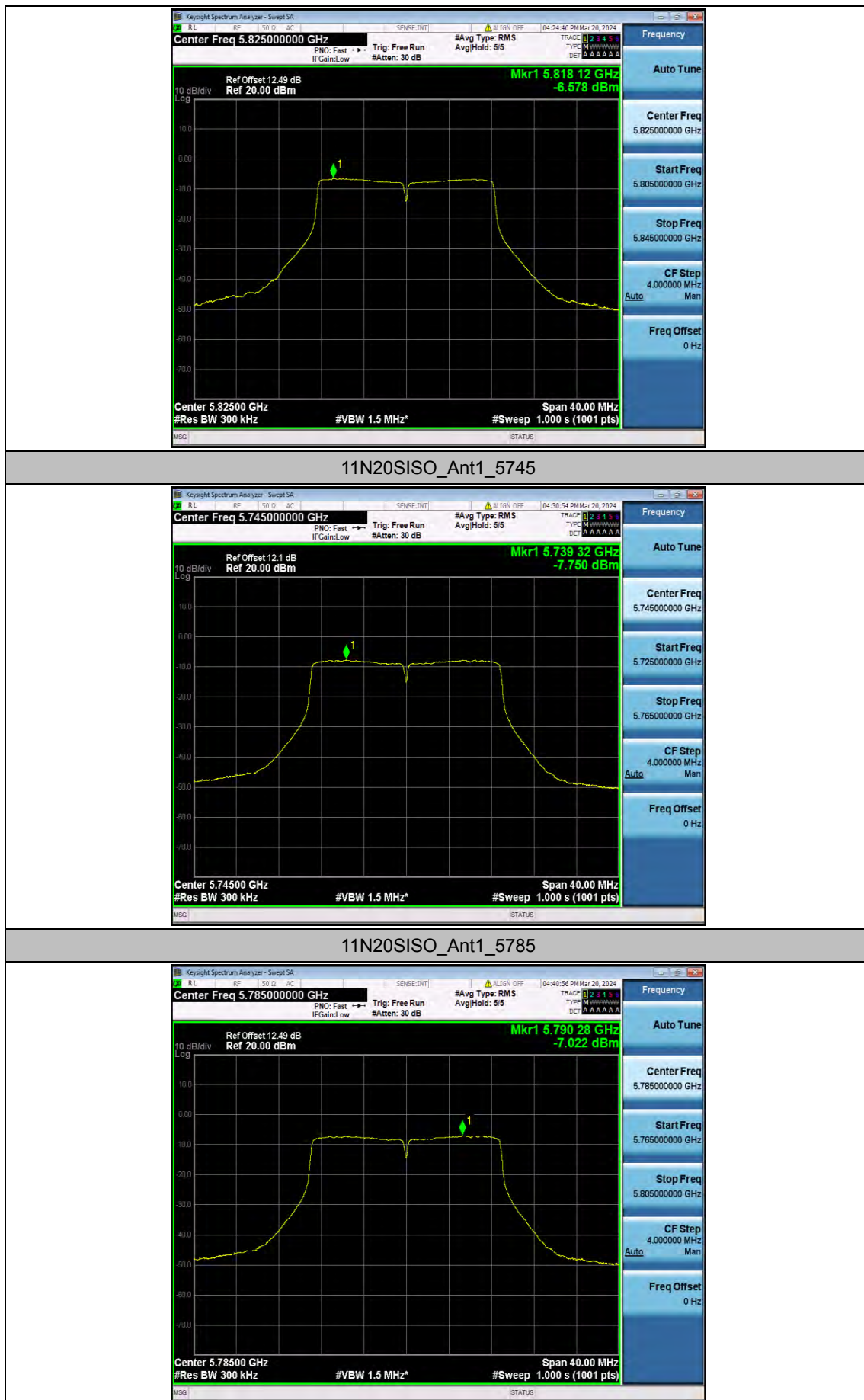
11A_Ant1_5745



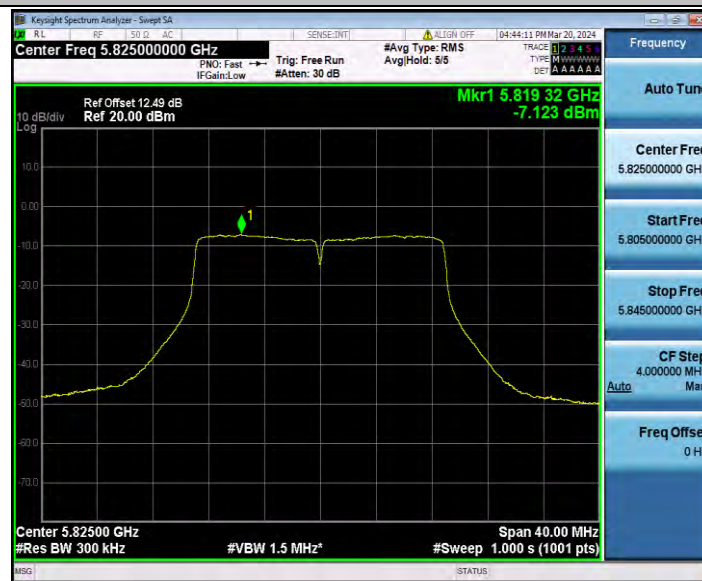
11A_Ant1_5785



11A_Ant1_5825



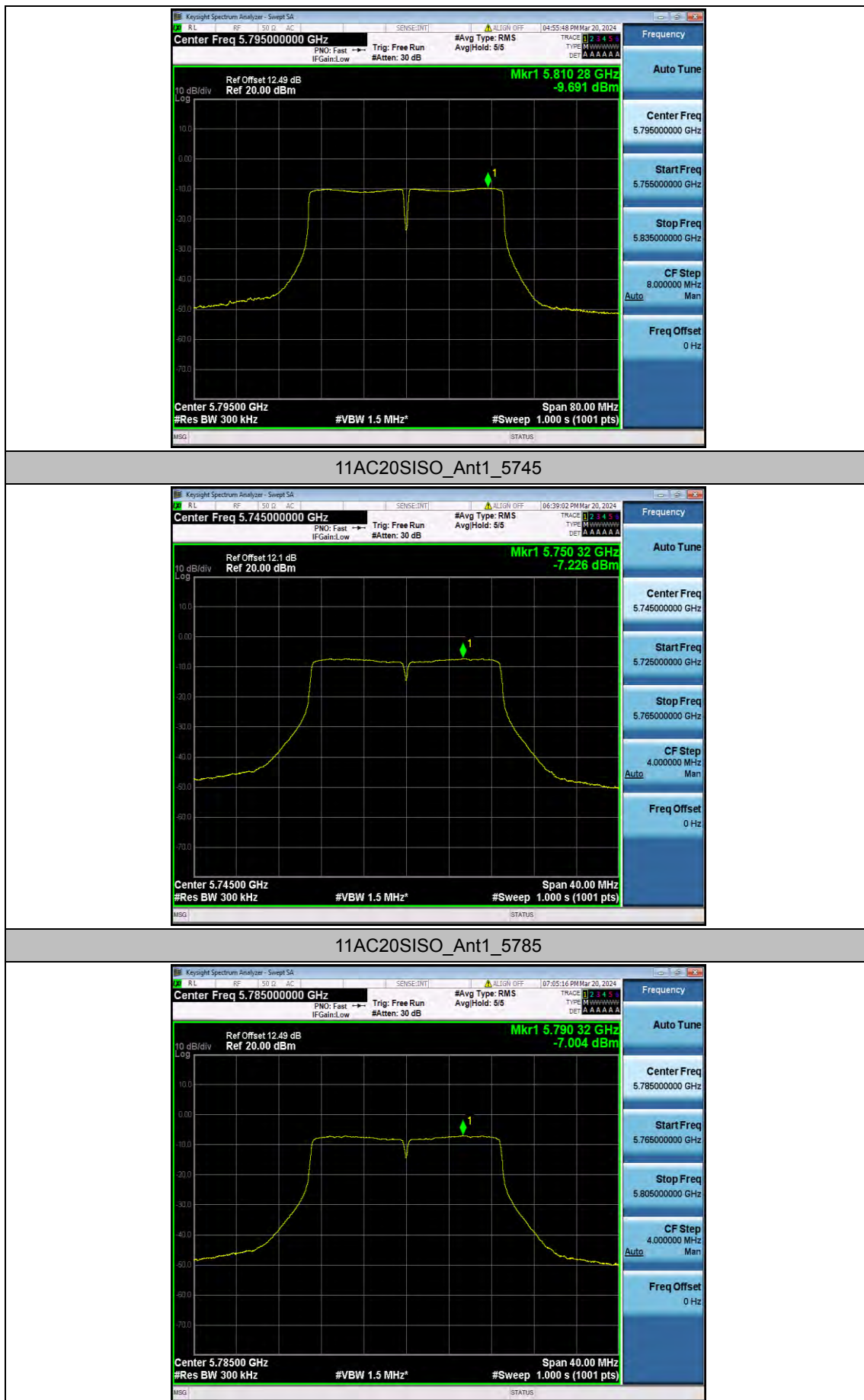
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



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	-40.76	≤ -26.79	PASS
				5700~5720	-39	≤ 10.28	PASS
				5720~5725	-32.8	≤ 20.01	PASS
				5760~5650	-39.22	≤ -27	PASS
		High	5825	5850~5855	-39.61	≤ 16.34	PASS
				5855~5875	-37.86	≤ 10.02	PASS
				5875~5925	-38.65	≤ -26.91	PASS
				5925~5935	-38.65	≤ -27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-39.58	≤ -26.19	PASS
				5700~5720	-39.58	≤ 10.54	PASS
				5720~5725	-37.64	≤ 16.60	PASS
				5760~5650	-40.21	≤ -27	PASS
		High	5825	5850~5855	-40.16	≤ 15.73	PASS
				5855~5875	-37.03	≤ 11.53	PASS
				5875~5925	-38.98	≤ -26.31	PASS
				5925~5935	-38.61	≤ -27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-39.77	≤ -26.80	PASS
				5700~5720	-35.06	≤ 12.82	PASS
				5720~5725	-34.28	≤ 16.66	PASS
				5780~5650	-40.16	≤ -27	PASS
		High	5795	5850~5855	-38.7	≤ 16.03	PASS
				5855~5875	-38.79	≤ 10.11	PASS
				5875~5925	-39.55	≤ -26.83	PASS
				5925~5935	-38.17	≤ -27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-40.08	≤ -26.53	PASS
				5700~5720	-40.02	≤ 10.06	PASS
				5720~5725	-35.51	≤ 17.65	PASS
				5760~5650	-39.48	≤ -27	PASS
		High	5825	5850~5855	-39.73	≤ 15.73	PASS
				5855~5875	-39.02	≤ 10.06	PASS
				5875~5925	-39.71	≤ -26.91	PASS
				5925~5935	-38.29	≤ -27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-41.23	≤ -26.70	PASS
				5700~5720	-36.54	≤ 11.53	PASS
				5720~5725	-35.17	≤ 15.74	PASS
				5780~5650	-39.74	≤ -27	PASS

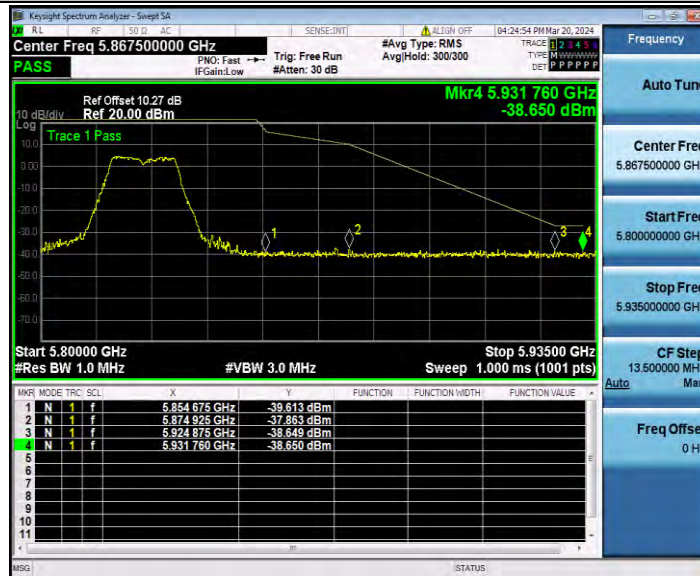
		High	5795	5850~5855	-39.88	≤ 16.03	PASS
				5855~5875	-37.24	≤ 11.96	PASS
				5875~5925	-38.48	≤ -26.22	PASS
				5925~5935	-38.07	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-40.53	≤ -26.91	PASS
				5700~5720	-37.29	≤ 10.27	PASS
				5720~5725	-36.87	≤ 15.65	PASS
				5800~5650	-39.77	≤ -27	PASS
		High	5775	5850~5855	-38.87	≤ 15.84	PASS
				5855~5875	-38.55	≤ 10.71	PASS
				5875~5925	-38.43	≤ -25.78	PASS
				5925~5935	-38.77	≤ -27	PASS

Test Graphs B4

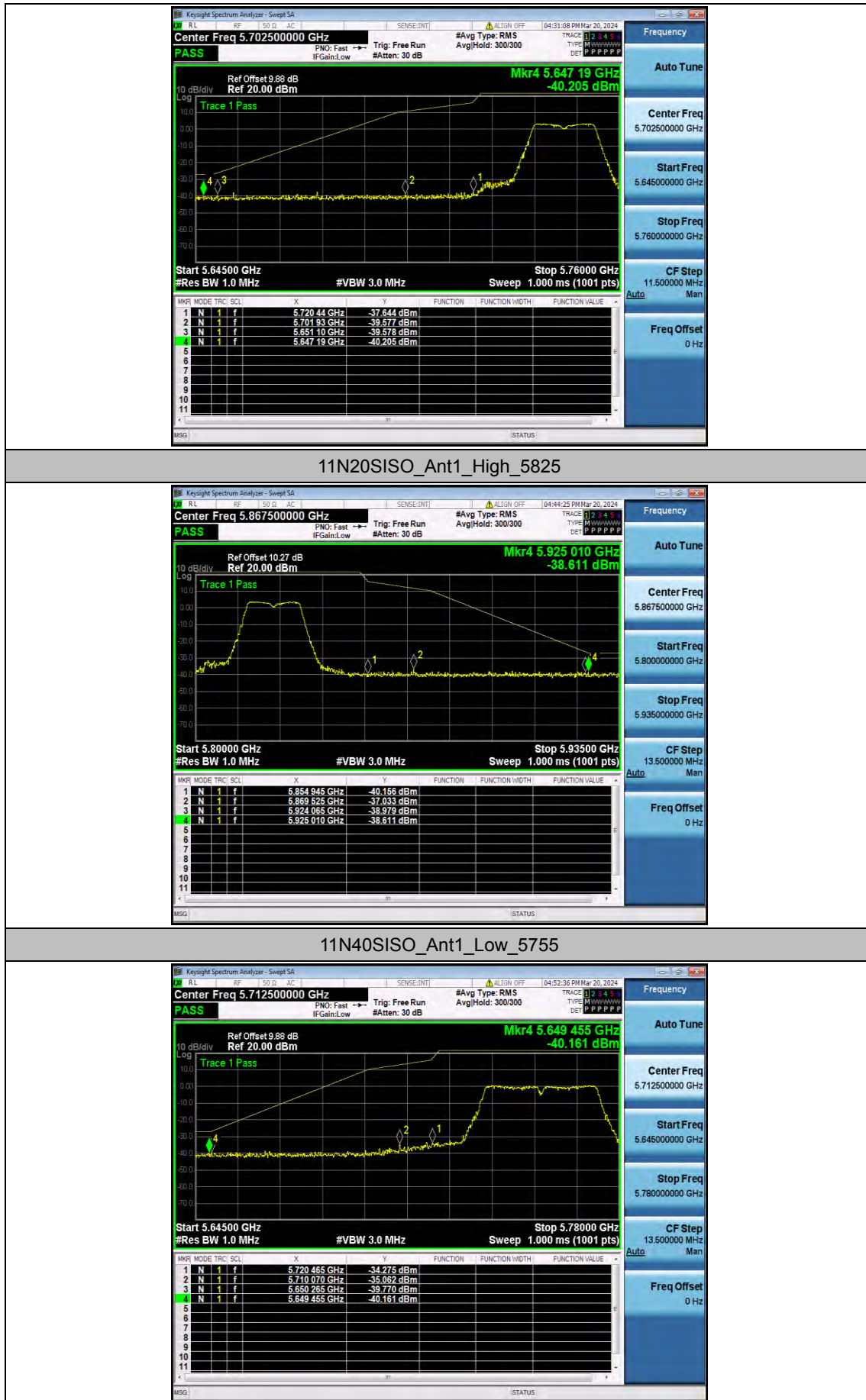
11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



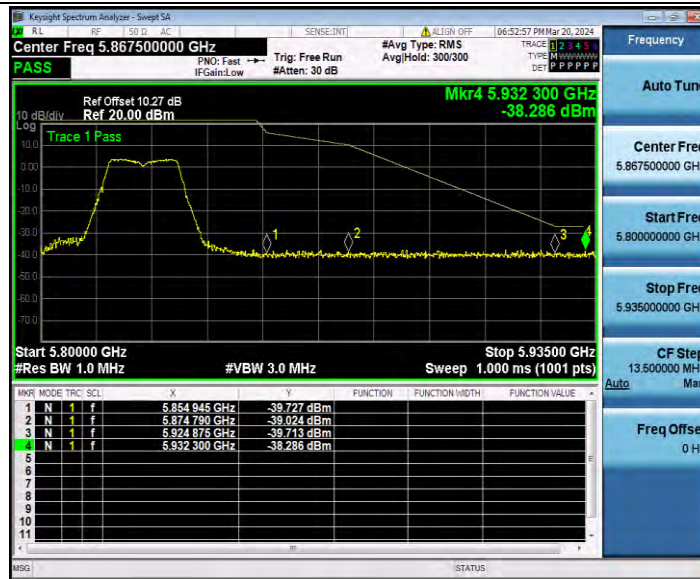
11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



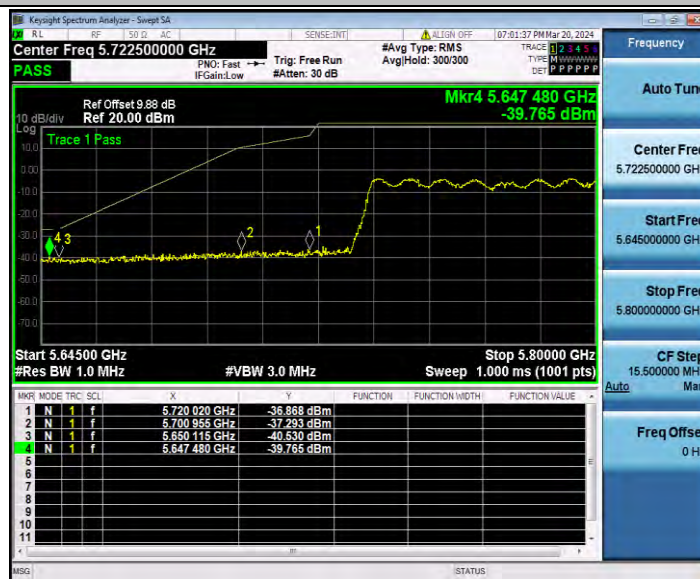
11AC40SISO_Ant1_Low_5755



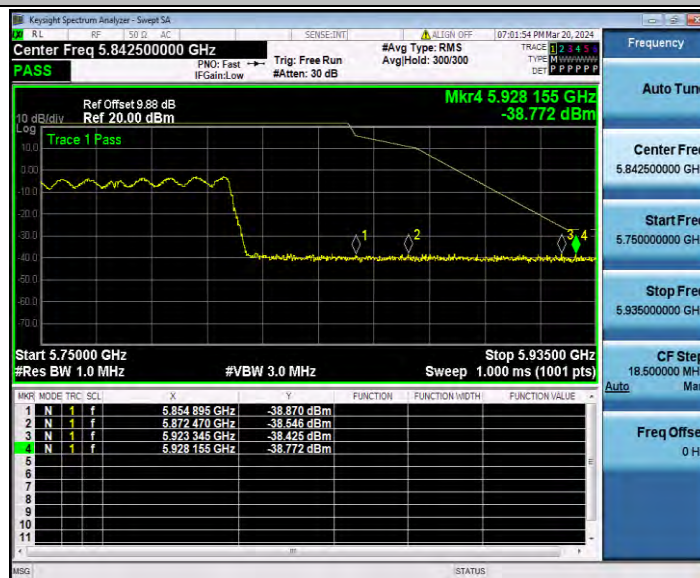
11AC40SISO_Ant1_High_5795



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	4996.58	-40.23	≤-27	PASS
			5925~40000	26583.42	-31.36	≤-27	PASS
		5785	30~5650	5435.13	-40.17	≤-27	PASS
			5925~40000	24854.57	-32.02	≤-27	PASS
		5825	30~5650	5451.8	-39.77	≤-27	PASS
			5925~40000	24900.93	-31.74	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5345.58	-40.83	≤-27	PASS
			5925~40000	26508.25	-32.16	≤-27	PASS
		5785	30~5650	4947.13	-40.34	≤-27	PASS
			5925~40000	23564.07	-31.93	≤-27	PASS
		5825	30~5650	4952.56	-40.07	≤-27	PASS
			5925~40000	24243.39	-31.78	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	4934.01	-39.82	≤-27	PASS
			5925~40000	24211.78	-31.73	≤-27	PASS
		5795	30~5650	5466.41	-39.43	≤-27	PASS
			5925~40000	24264.47	-31.83	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	4916.4	-39.42	≤-27	PASS
			5925~40000	26676.85	-31.96	≤-27	PASS
		5785	30~5650	5473.53	-39.31	≤-27	PASS
			5925~40000	24205.46	-30.91	≤-27	PASS
		5825	30~5650	5521.86	-39.67	≤-27	PASS
			5925~40000	25465.04	-31.9	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5496.95	-39.37	≤-27	PASS
			5925~40000	24218.1	-30.48	≤-27	PASS
		5795	30~5650	4867.88	-39.72	≤-27	PASS
			5925~40000	25970.14	-31.82	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5409.09	-39.52	≤-27	PASS
			5925~40000	24224.42	-32.4	≤-27	PASS

Test Graphs

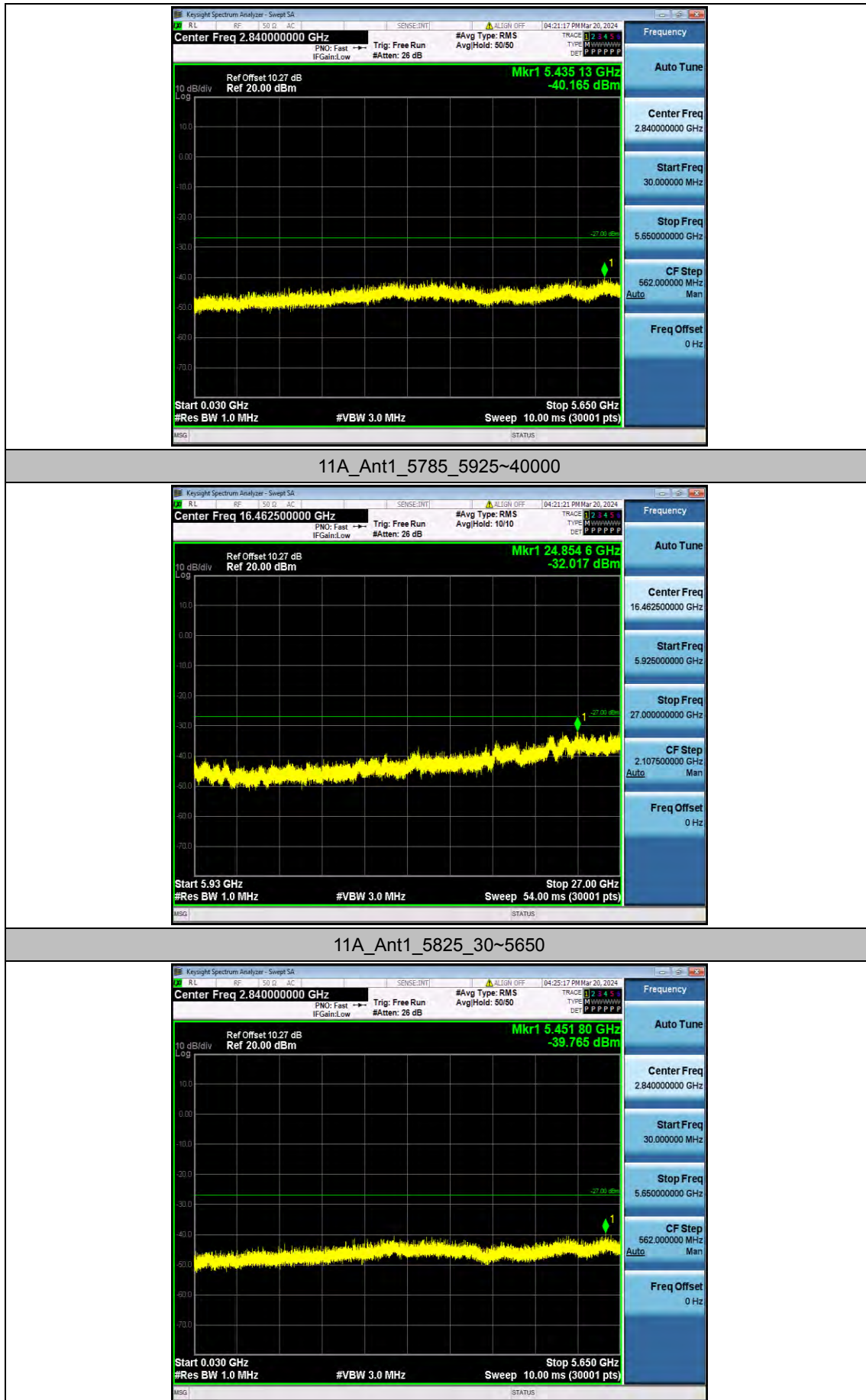
11A_Ant1_5745_30~5650



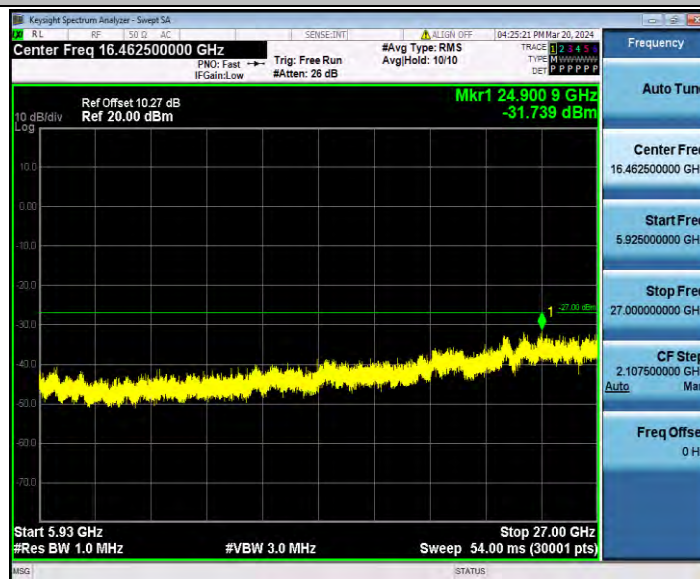
11A_Ant1_5745_5925~40000



11A_Ant1_5785_30~5650



11A_Ant1_5825_5925~40000



11N20SISO_Ant1_5745_30~5650



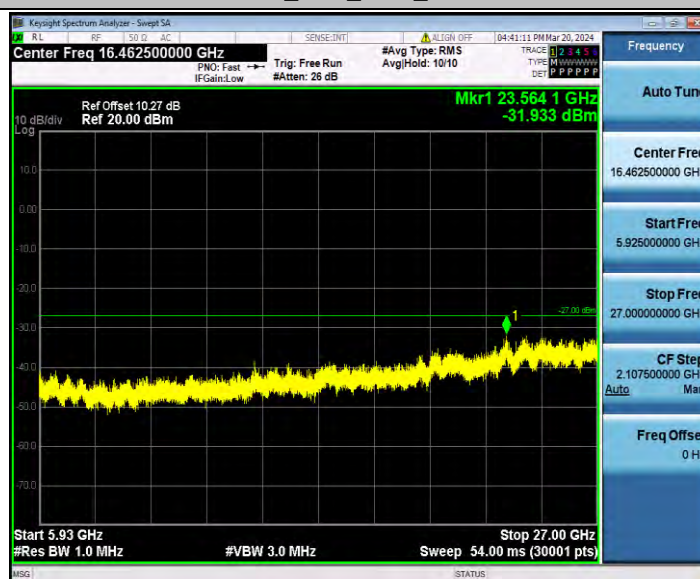
11N20SISO_Ant1_5745_5925~40000



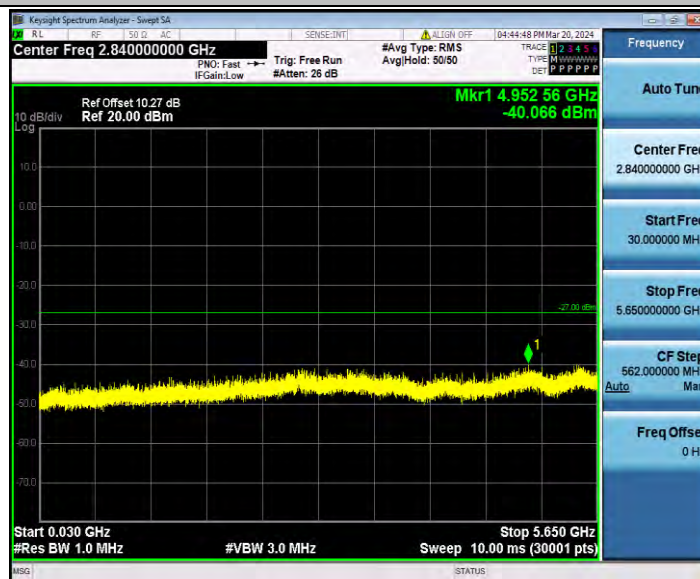
11N20SISO_Ant1_5785_30~5650



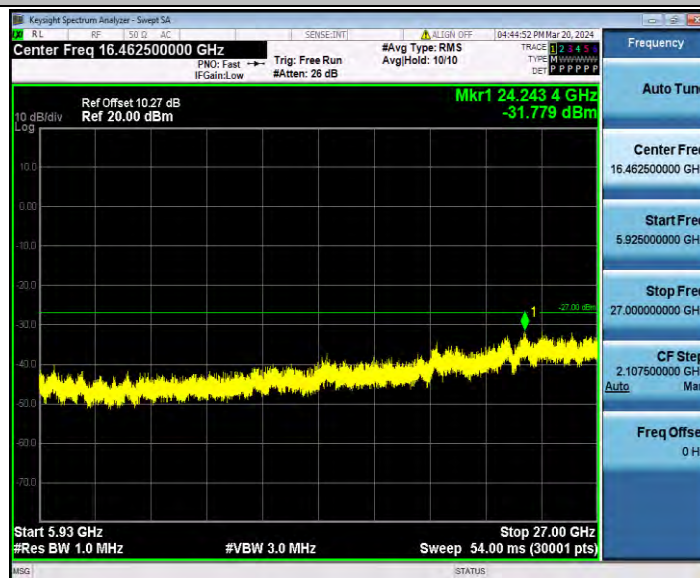
11N20SISO_Ant1_5785_5925~40000



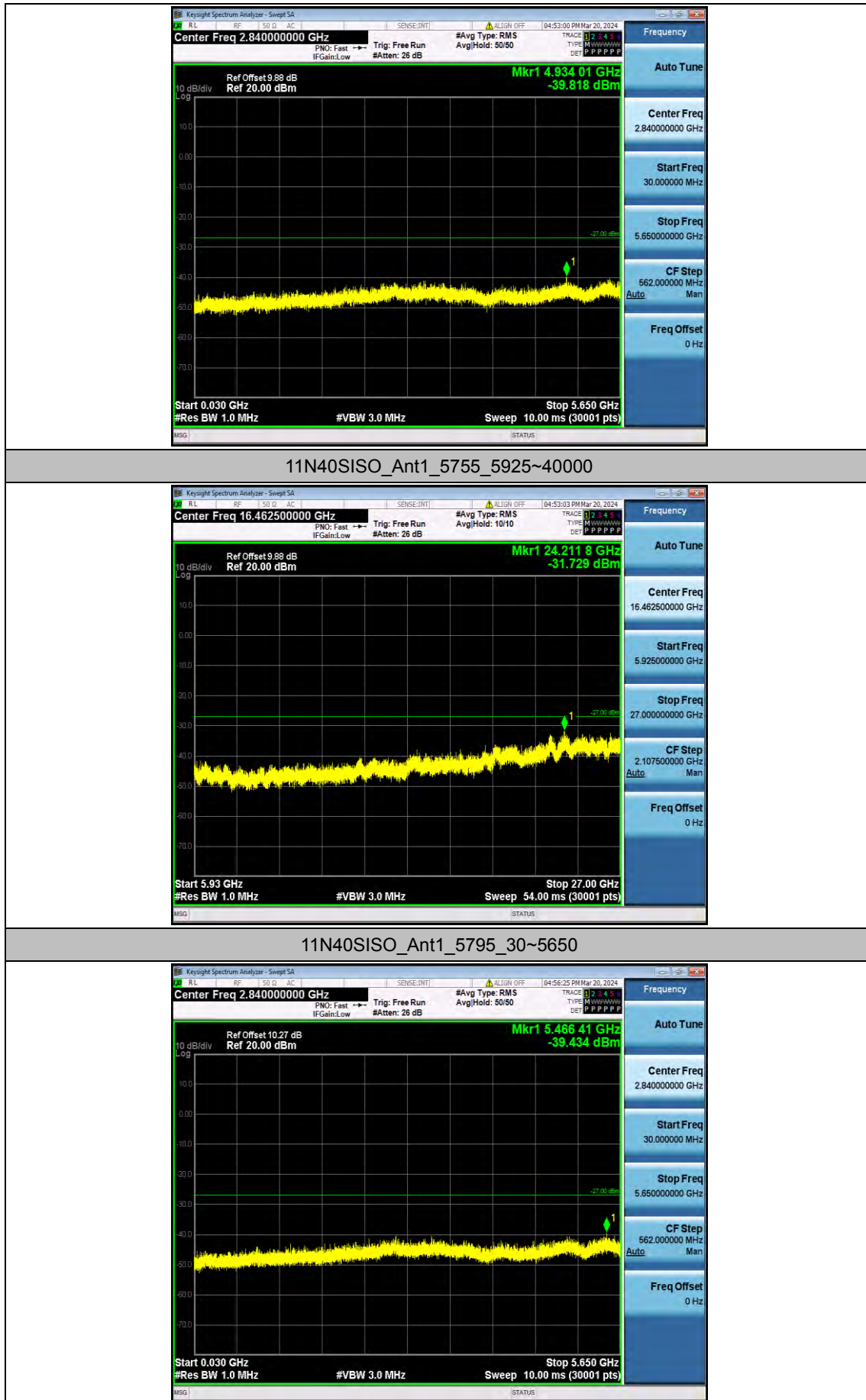
11N20SISO_Ant1_5825_30~5650



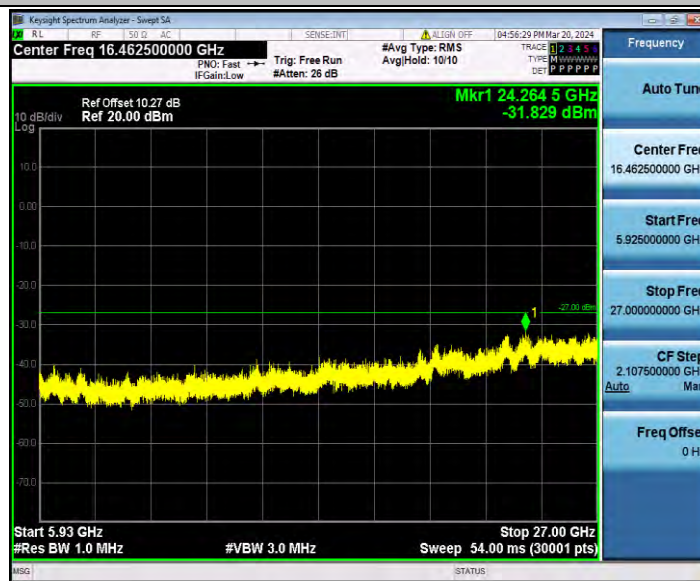
11N20SISO_Ant1_5825_5925~40000



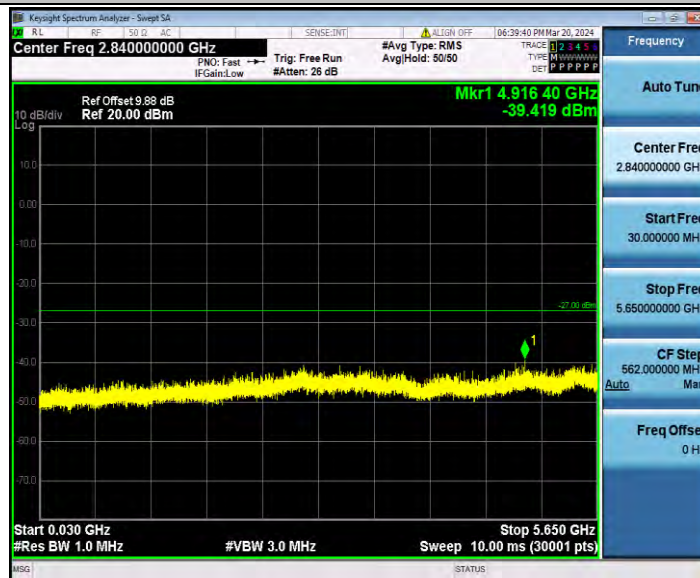
11N40SISO_Ant1_5755_30~5650



11N40SISO_Ant1_5795_5925~40000



11AC20SISO_Ant1_5745_30~5650



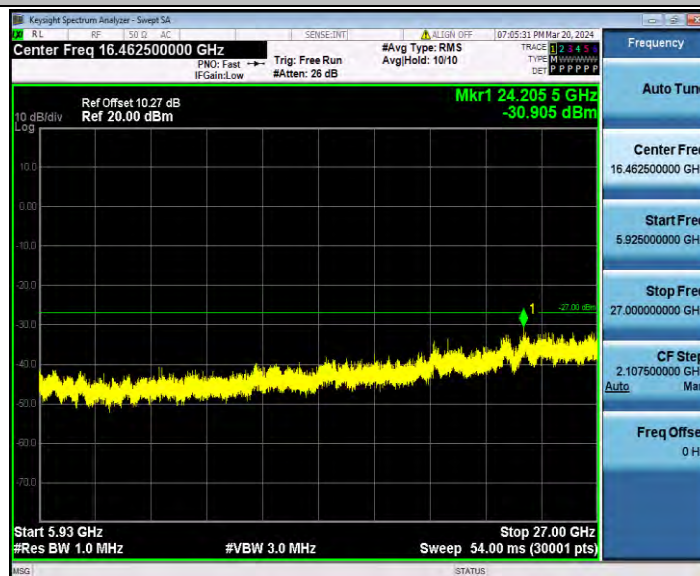
11AC20SISO_Ant1_5745_5925~40000



11AC20SISO_Ant1_5785_30~5650



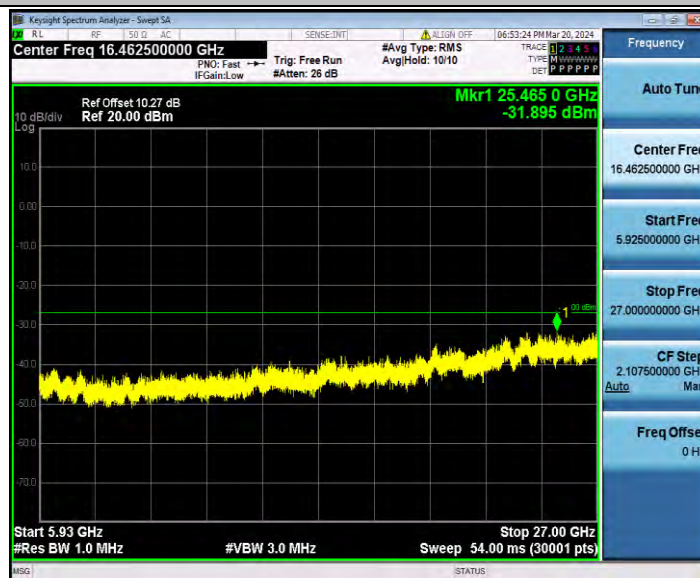
11AC20SISO_Ant1_5785_5925~40000



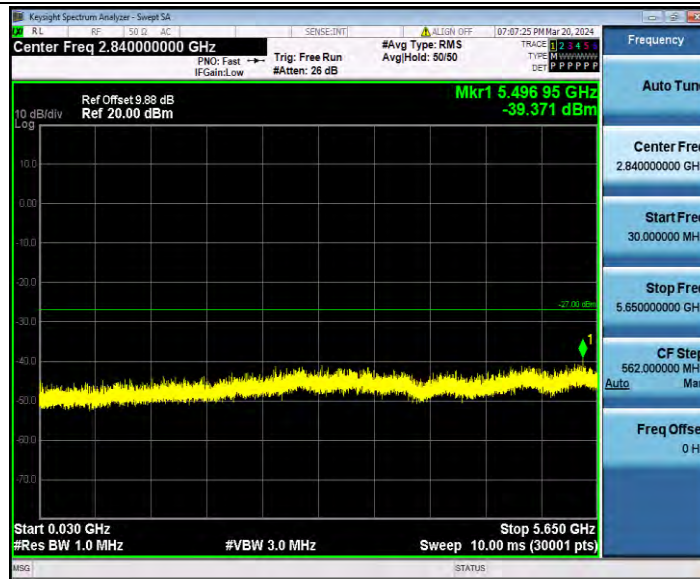
11AC20SISO_Ant1_5825_30~5650



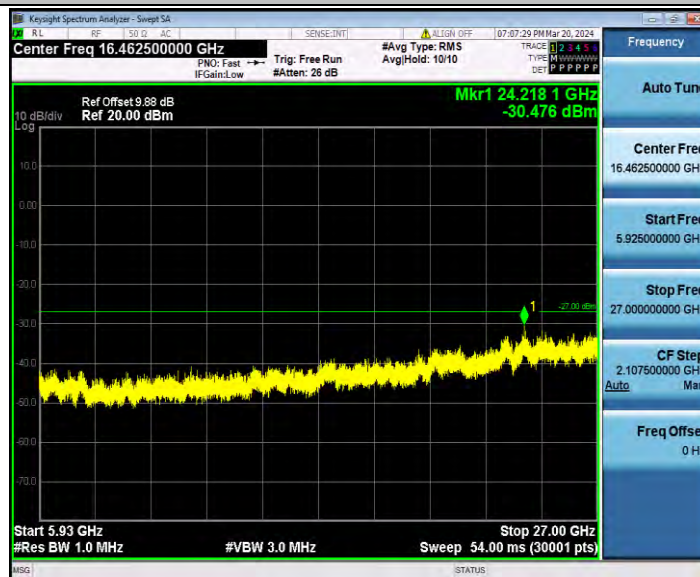
11AC20SISO_Ant1_5825_5925~40000



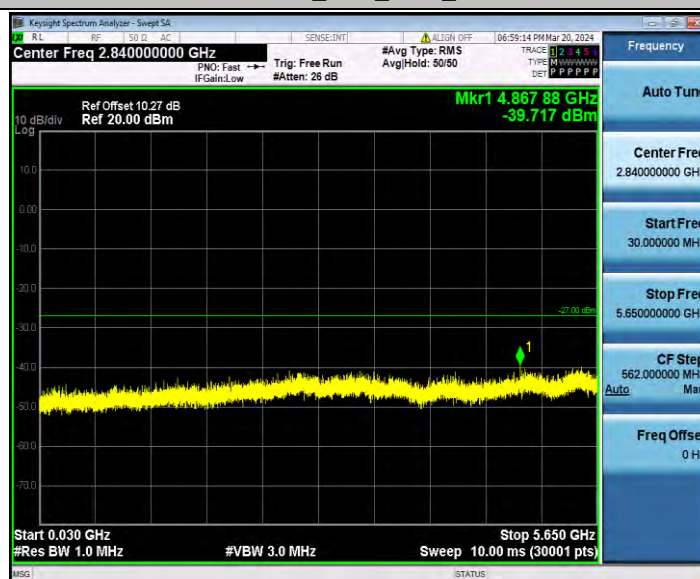
11AC40SISO_Ant1_5755_30~5650



11AC40SISO_Ant1_5755_5925~40000



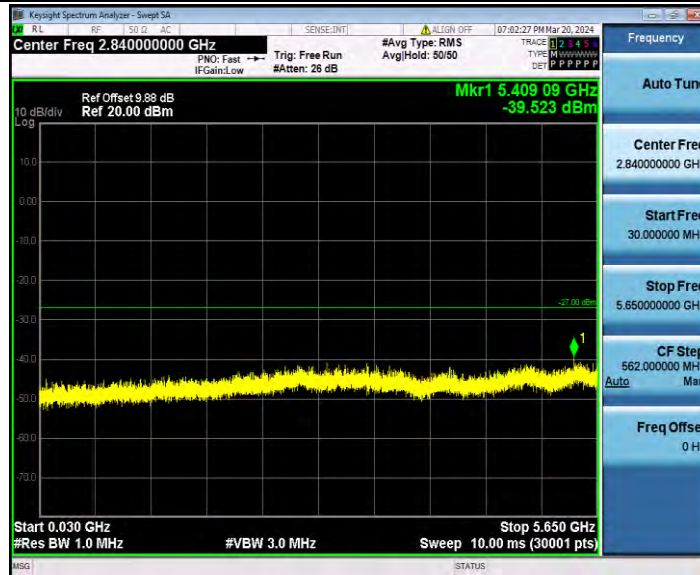
11AC40SISO_Ant1_5795_30~5650



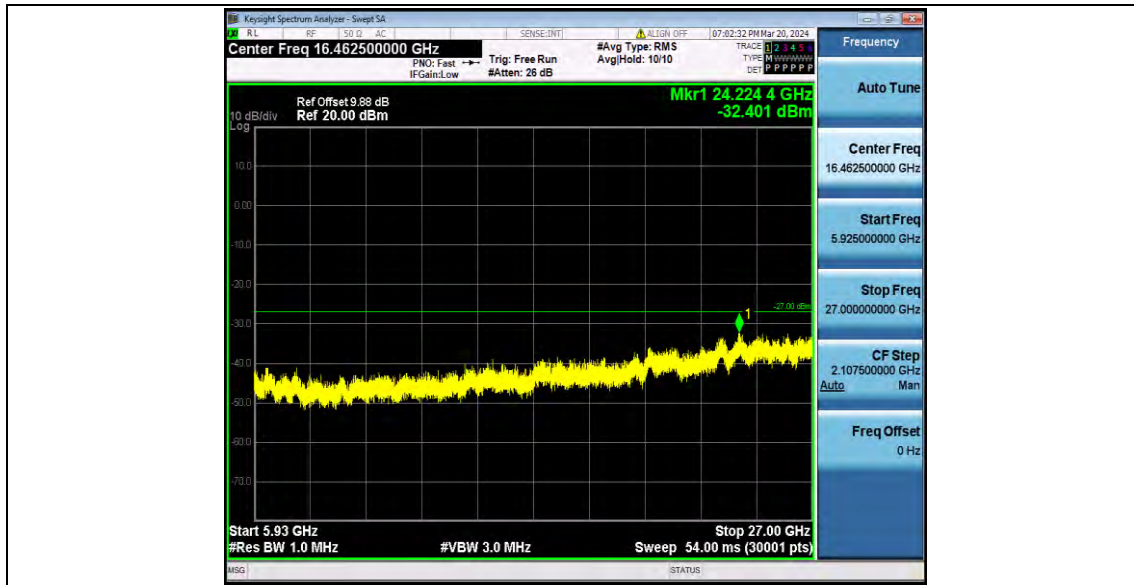
11AC40SISO_Ant1_5795_5925~40000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~40000



Appendix E.8: Emissions in Restricted Bands

Test Result

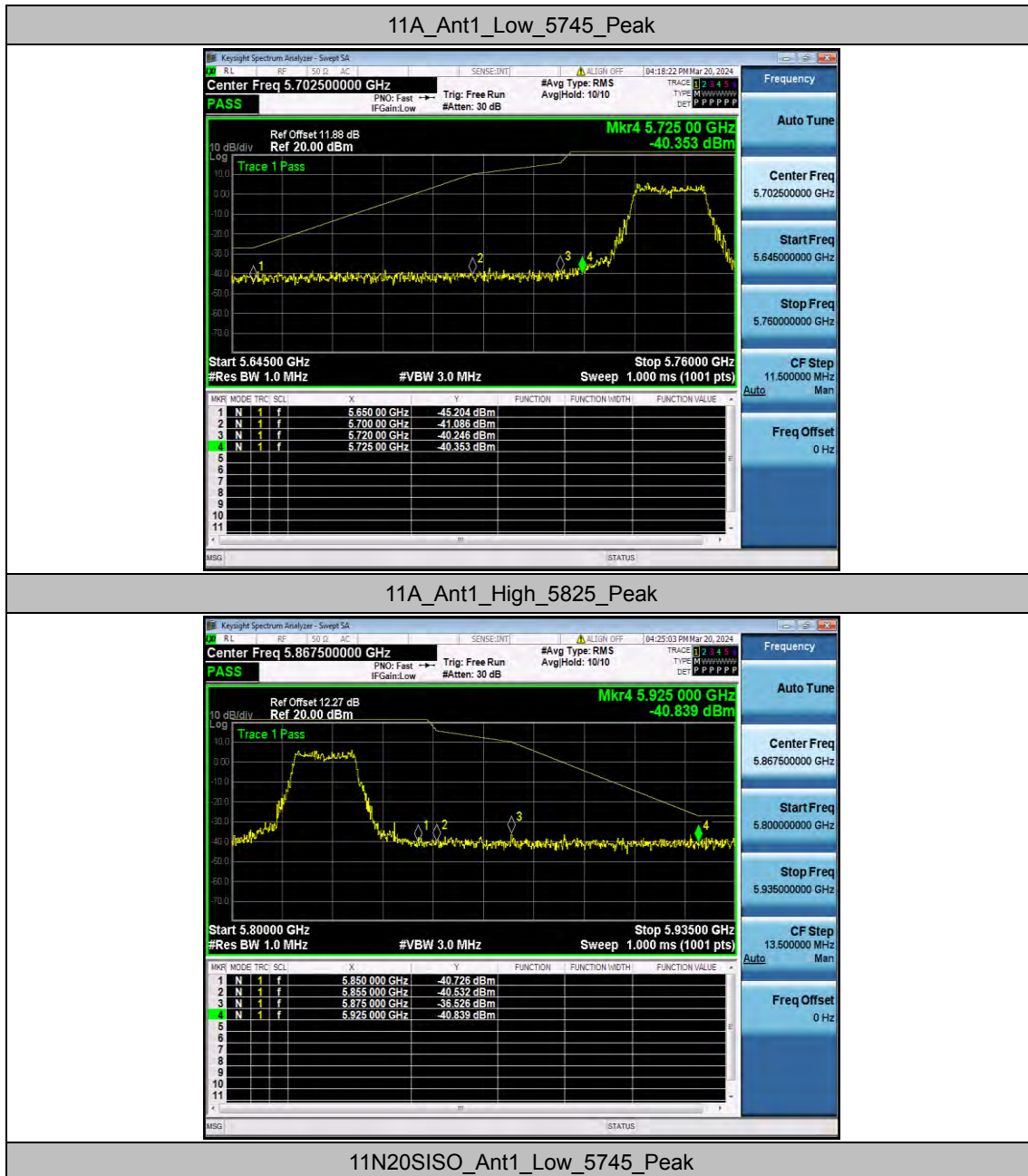
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-45.20 4	≤-27.00	PASS
				Peak	5700.000	-41.09	≤10.00	PASS
				Peak	5720.000	-40.25	≤15.60	PASS
				Peak	5725.000	-40.35	≤27.00	PASS
		High	5825	Peak	5850.000	-40.72 6	≤27.00	PASS
				Peak	5855.000	-40.53	≤15.60	PASS
				Peak	5875.000	-36.53	≤10.00	PASS
				Peak	5925.000	-40.84	≤-27.00	PASS
11N20SIS O	Ant1	Low	5745	Peak	5650.000	-42.63 1	≤-27.00	PASS
				Peak	5700.000	-42.27	≤10.00	PASS
				Peak	5720.000	-42.45	≤15.60	PASS
				Peak	5725.000	-37.96	≤27.00	PASS
		High	5825	Peak	5850.000	-42.55 1	≤27.00	PASS
				Peak	5855.000	-42.35	≤15.60	PASS
				Peak	5875.000	-41.94	≤10.00	PASS
				Peak	5925.000	-44.31	≤-27.00	PASS
11N40SIS O	Ant1	Low	5755	Peak	5650.000	-42.66 6	≤-27.00	PASS
				Peak	5700.000	-40.52	≤10.00	PASS
				Peak	5720.000	-33.17	≤15.60	PASS
				Peak	5725.000	-34.52	≤27.00	PASS
		High	5795	Peak	5850.000	-40.66 1	≤27.00	PASS
				Peak	5855.000	-41.09	≤15.60	PASS
				Peak	5875.000	-40.48	≤10.00	PASS
				Peak	5925.000	-43.17	≤-27.00	PASS
11AC20SI SO	Ant1	Low	5745	Peak	5650.000	-41.70 3	≤-27.00	PASS
				Peak	5700.000	-41.66	≤10.00	PASS
				Peak	5720.000	-37.57	≤15.60	PASS
				Peak	5725.000	-33.94	≤27.00	PASS
		High	5825	Peak	5850.000	-39.79 5	≤27.00	PASS

				Peak	5855.000	-40.61	≤15.60	PASS
				Peak	5875.000	-39.7	≤10.00	PASS
				Peak	5925.000	-40.98	≤-27.00	PASS
11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-41.61	≤-27.00	PASS
				Peak	5700.000	-40.77	≤10.00	PASS
				Peak	5720.000	-38.55	≤15.60	PASS
				Peak	5725.000	-35.5	≤27.00	PASS
		High	5795	Peak	5850.000	-39.85 7	≤27.00	PASS
				Peak	5855.000	-40.11	≤15.60	PASS
				Peak	5875.000	-39.53	≤10.00	PASS
				Peak	5925.000	-40.93	≤-27.00	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-42	≤-27.00	PASS
				Peak	5700.000	-40.33	≤10.00	PASS
				Peak	5720.000	-39.34	≤15.60	PASS
				Peak	5725.000	-39.72	≤27.00	PASS
		High	5775	Peak	5850.000	-41.74 2	≤27.00	PASS
				Peak	5855.000	-41.33	≤15.60	PASS
				Peak	5875.000	-44.74	≤10.00	PASS
				Peak	5925.000	-42.63	≤-27.00	PASS

Note:

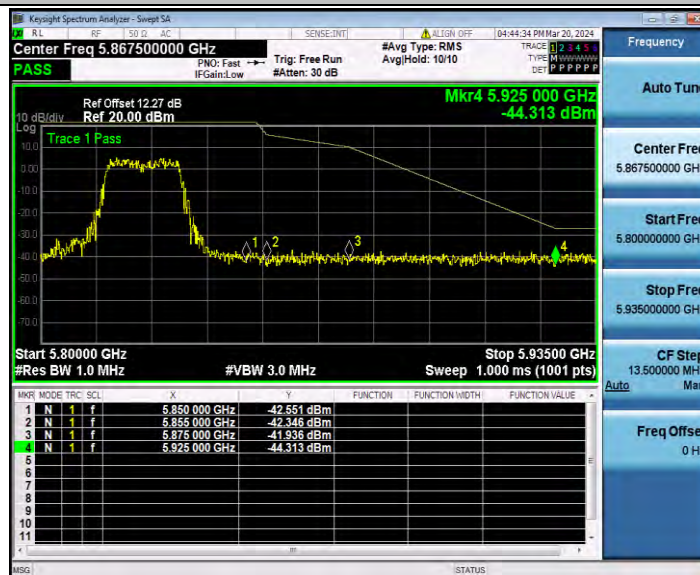
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm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



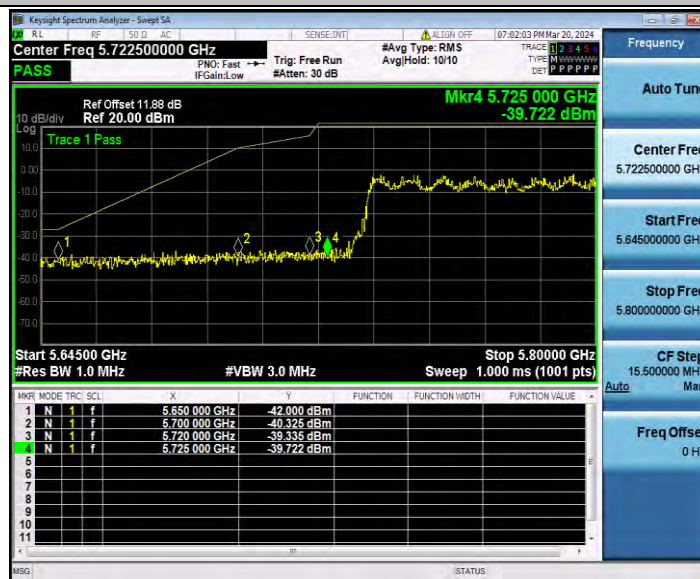
11AC40SISO_Ant1_Low_5755_Peak



11AC40SISO_Ant1_High_5795_Peak



11AC80SISO_Ant1_Low_5775_Peak



11AC80SISO_Ant1_High_5775_Peak

