

Case No. : <u>CTA24070301904</u>	
Ambient Condition: <u>23</u> °C, <u>52</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.7.8</u>	Test Engineer: <u>Lushan Kong</u>

Appendix E.1: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5745	16.959	5736.4516	5753.4106
		5785	17.015	5776.4509	5793.4659
		5825	17.056	5816.4180	5833.4740
11N20SISO	Ant1	5745	18.054	5735.9133	5753.9673
		5785	18.006	5775.9377	5793.9437
		5825	18.066	5815.9272	5833.9932
11N40SISO	Ant1	5755	36.307	5736.7939	5773.1009
		5795	36.207	5776.8627	5813.0697
11AC20SISO	Ant1	5745	18.005	5735.9497	5753.9547
		5785	18.021	5775.9399	5793.9609
		5825	18.030	5815.9353	5833.9653
11AC40SISO	Ant1	5755	36.175	5736.8713	5773.0463
		5795	36.207	5776.8586	5813.0656
11AC80SISO	Ant1	5775	75.235	5737.3084	5812.5434

Test Graphs

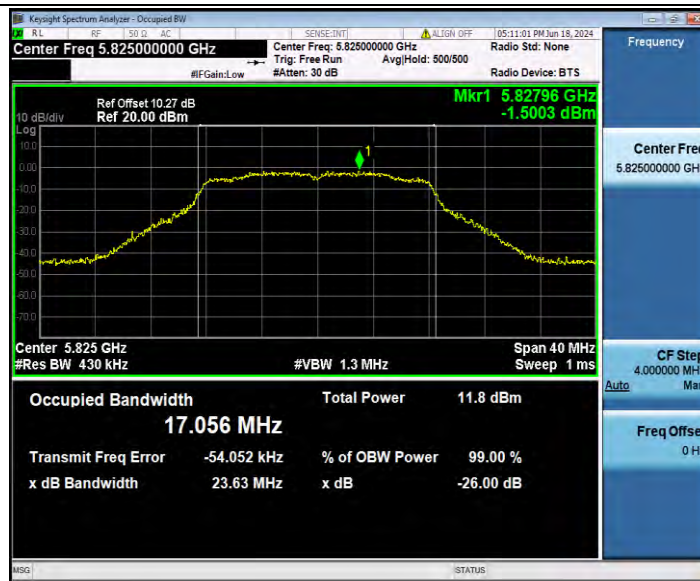
11A_Ant1_5745



11A_Ant1_5785



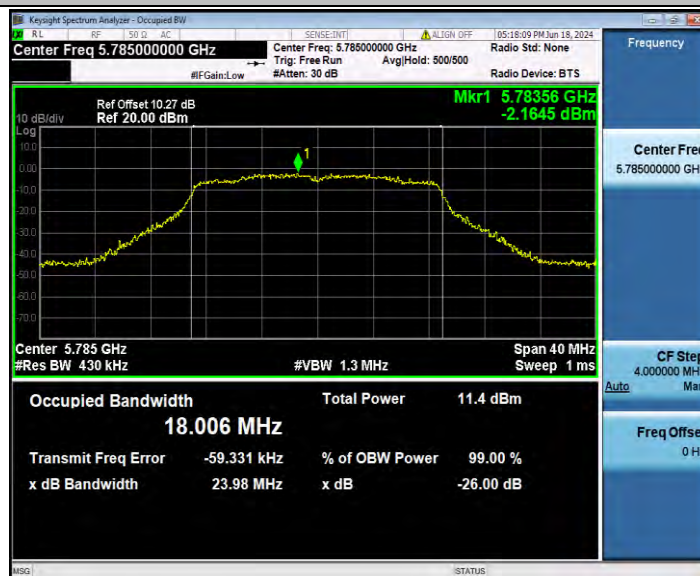
11A_Ant1_5825



11N20SISO_Ant1_5745



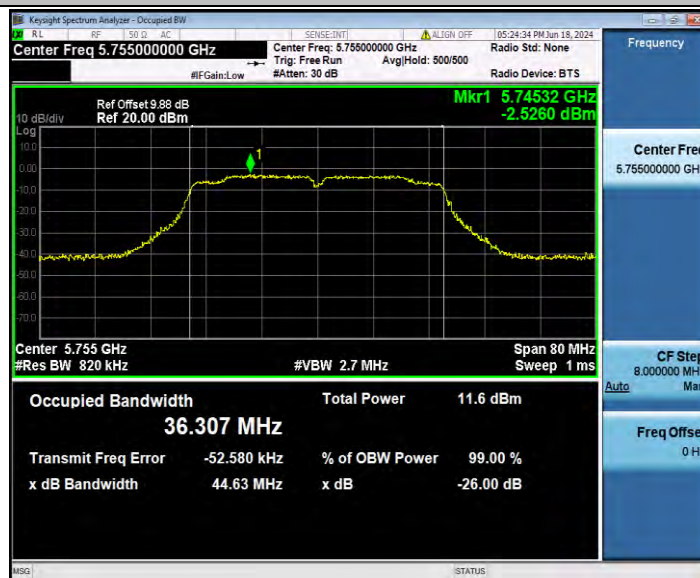
11N20SISO_Ant1_5785



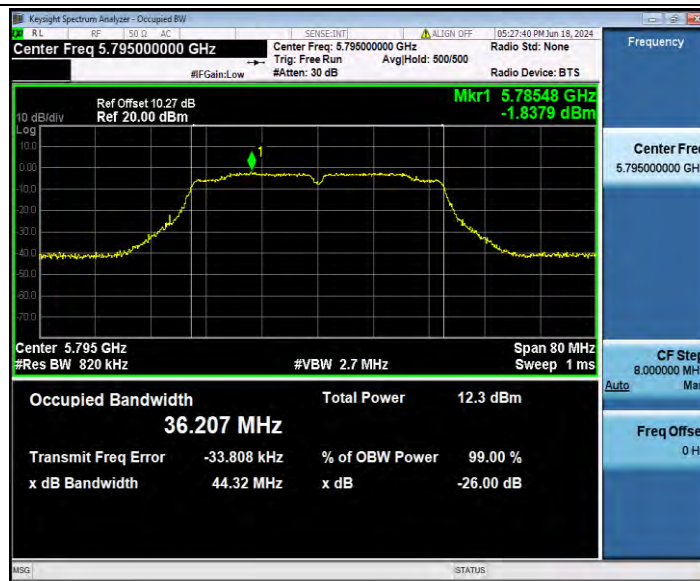
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



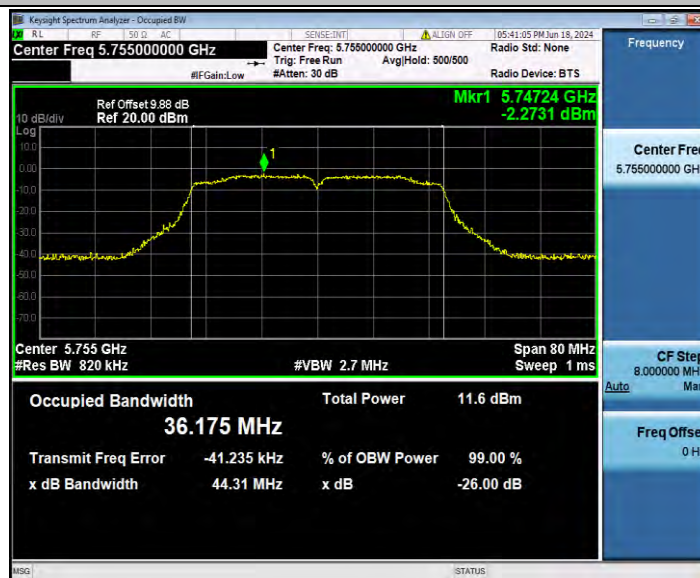
11AC20SISO_Ant1_5785



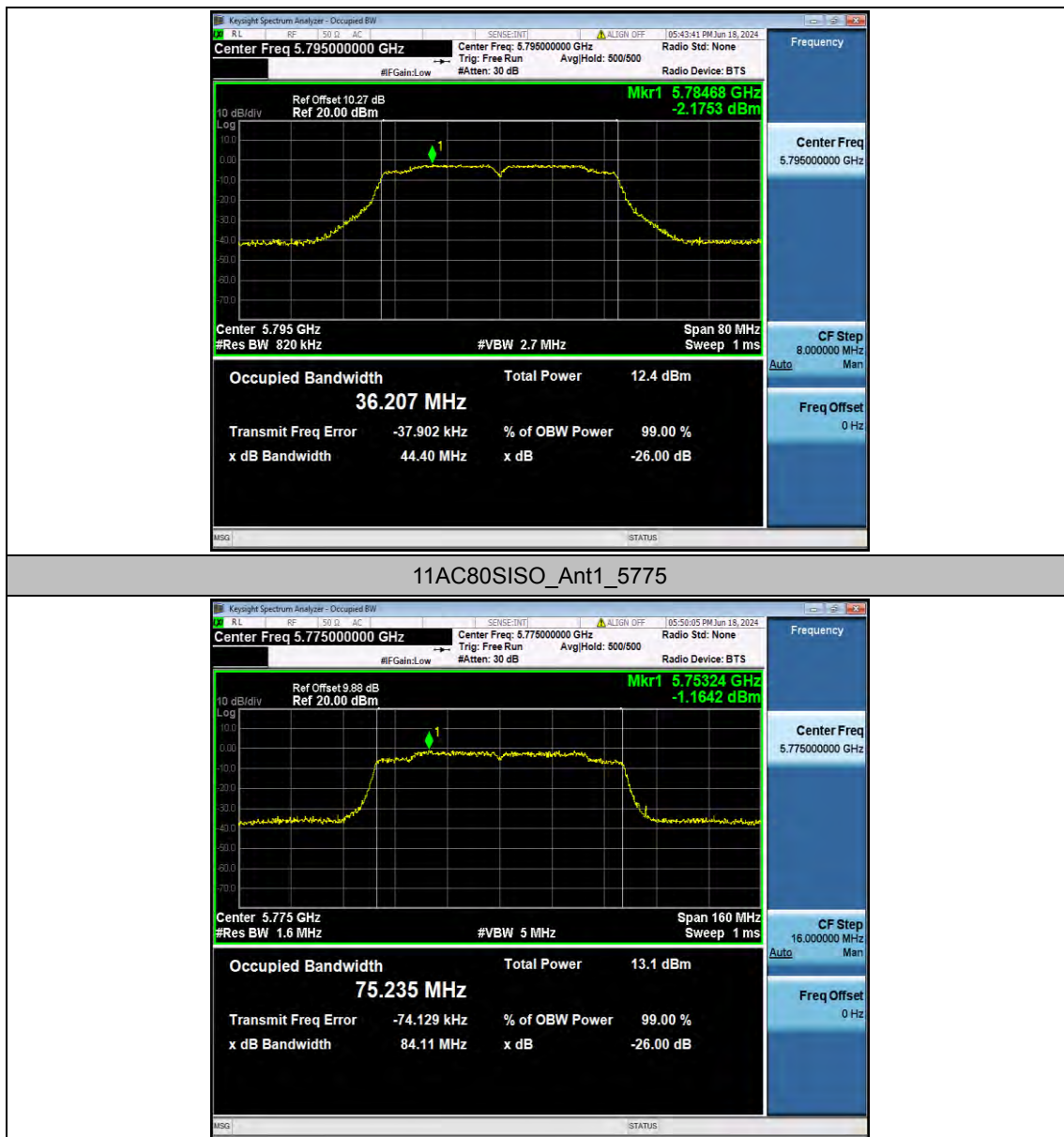
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix E.2: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.160	5737.400	5752.560	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11N20SISO	Ant1	5745	15.400	5737.120	5752.520	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.120	5817.400	5832.520	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	14.960	5737.520	5752.480	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.080	5817.400	5832.480	0.5	PASS
11AC40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs B4

11A_Ant1_5745



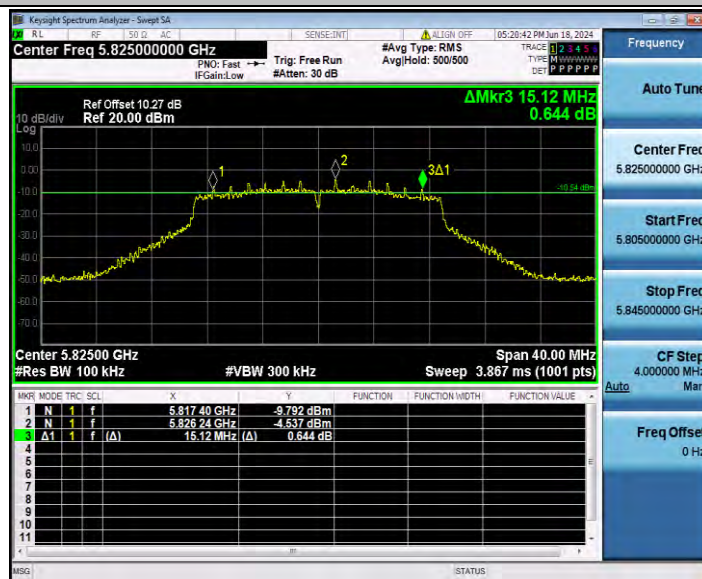
11A_Ant1_5785



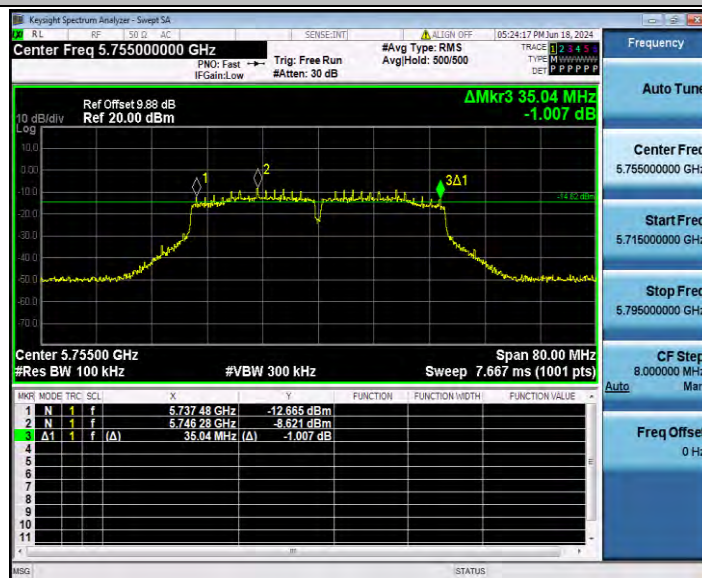
11A_Ant1_5825



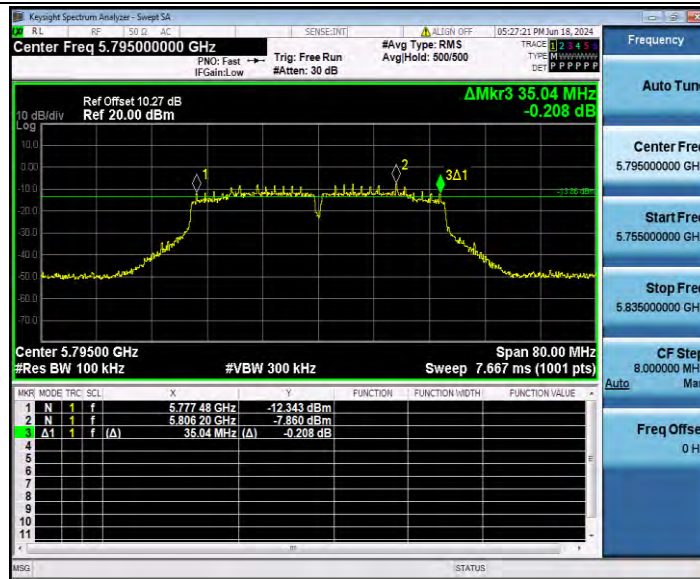
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



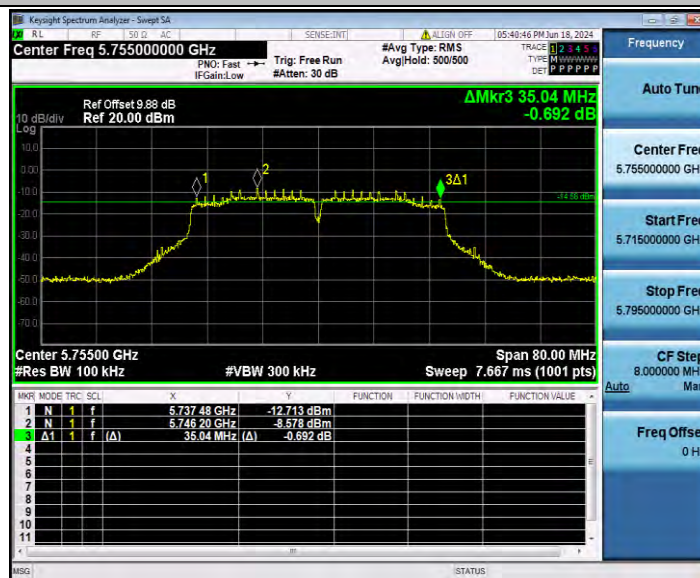
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



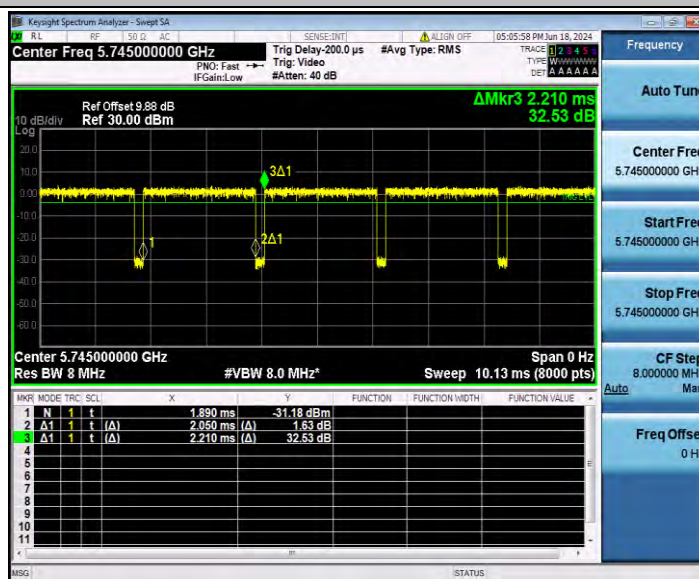
Appendix E.3: Duty Cycle

Test Result

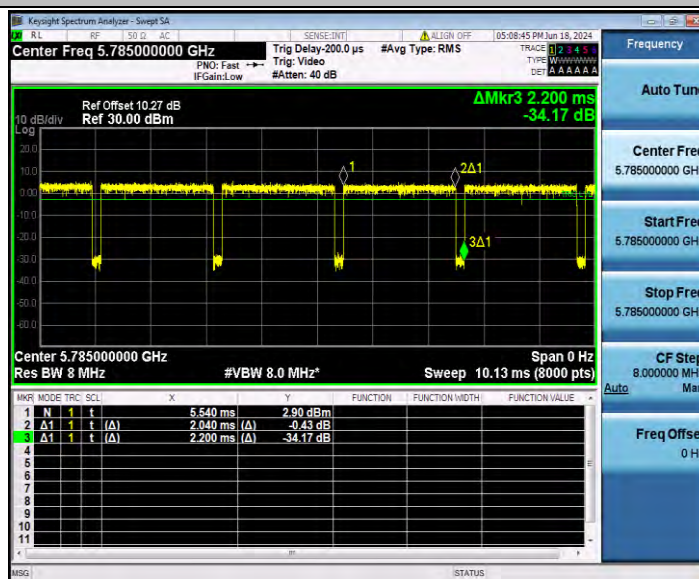
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	2.05	2.21	92.76	0.33	0.49
		5785	2.04	2.20	92.73	0.33	0.49
		5825	2.05	2.21	92.76	0.33	0.49
11N20SISO	Ant1	5745	1.90	2.05	92.68	0.33	0.53
		5785	1.91	2.06	92.72	0.33	0.52
		5825	1.91	2.06	92.72	0.33	0.52
11N40SISO	Ant1	5755	0.94	1.01	93.07	0.31	1.06
		5795	0.94	1.02	92.16	0.35	1.06
11AC20SISO	Ant1	5745	1.91	2.06	92.72	0.33	0.52
		5785	1.91	2.06	92.72	0.33	0.52
		5825	1.92	2.07	92.75	0.33	0.52
11AC40SISO	Ant1	5755	0.94	1.02	92.16	0.35	1.06
		5795	0.95	1.02	93.14	0.31	1.05
11AC80SISO	Ant1	5775	0.46	0.50	92.00	0.36	2.17

Test Graphs

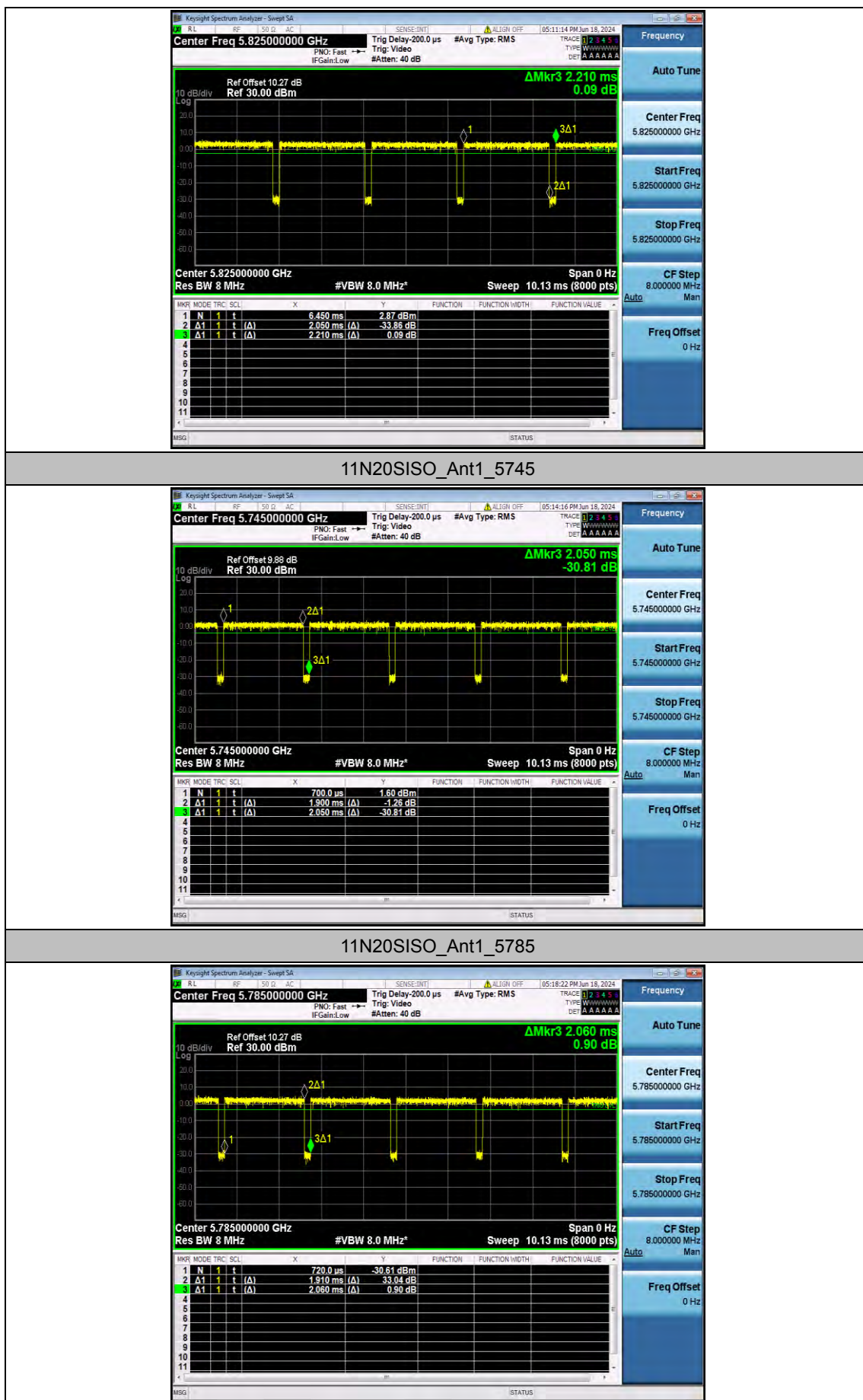
11A_Ant1_5745



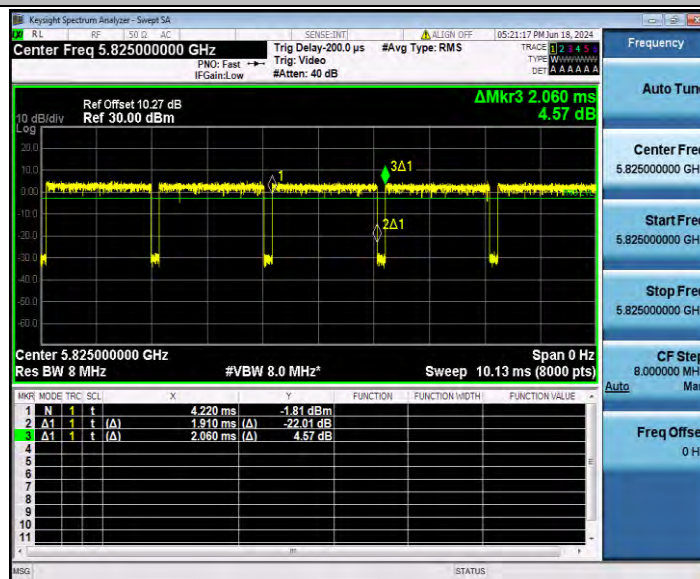
11A_Ant1_5785



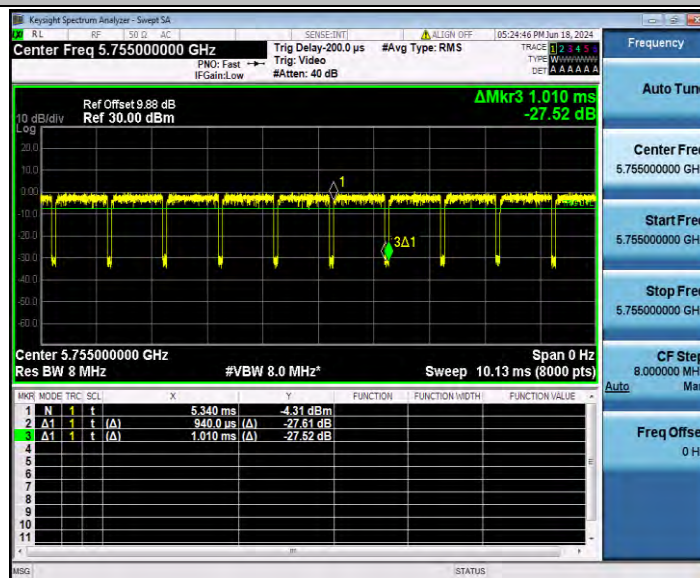
11A_Ant1_5825



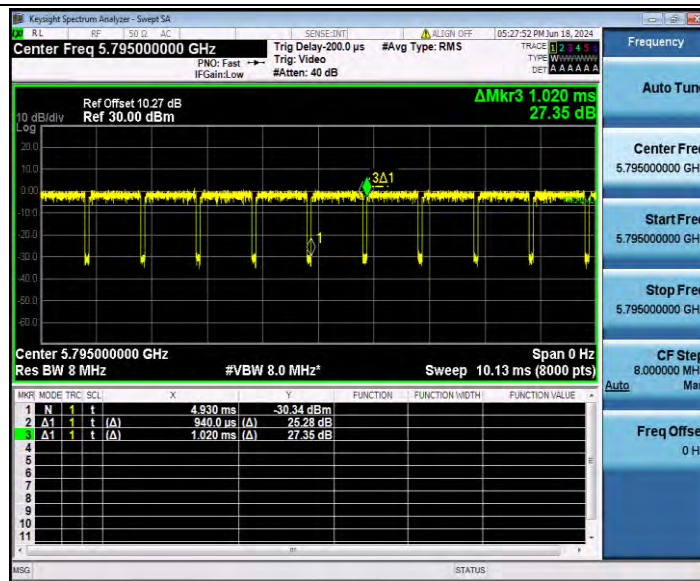
11N20SISO_Ant1_5825



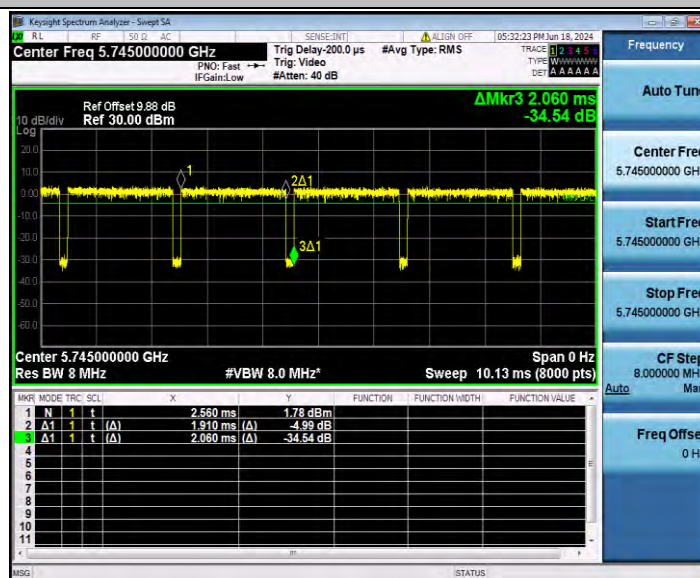
11N40SISO_Ant1_5755



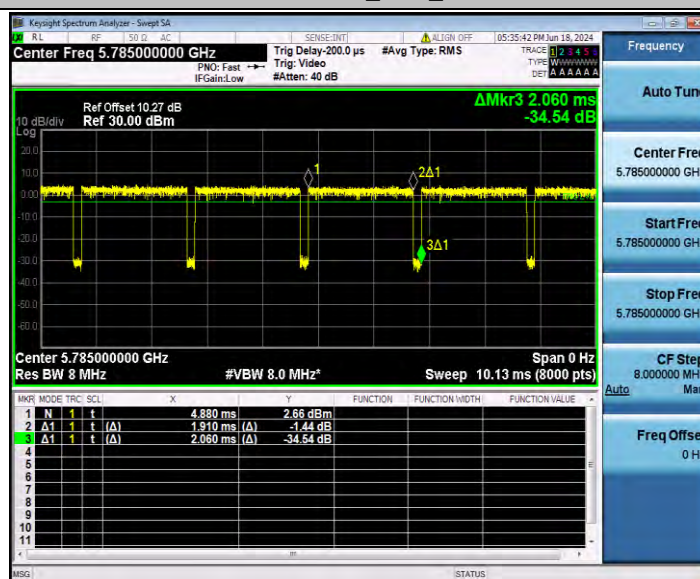
11N40SISO_Ant1_5795



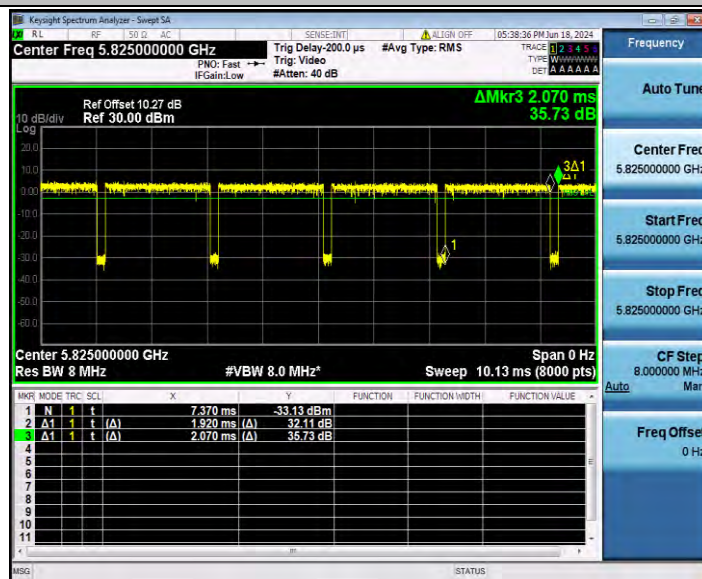
11AC20SISO_Ant1_5745



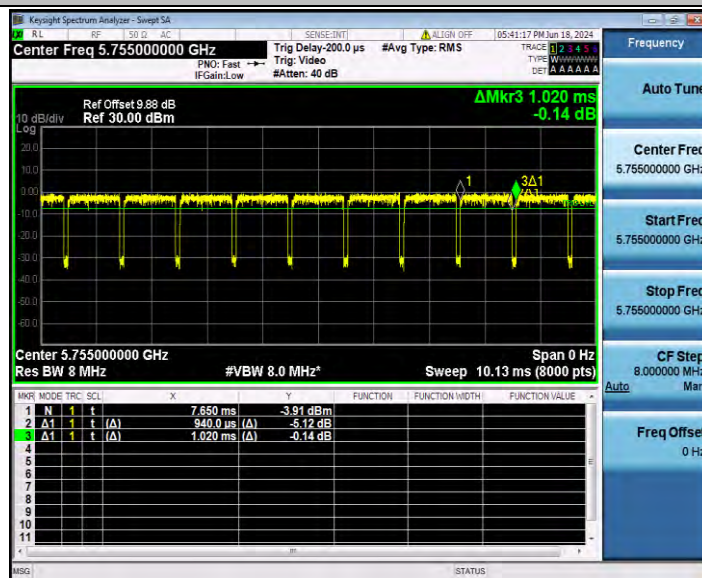
11AC20SISO_Ant1_5785



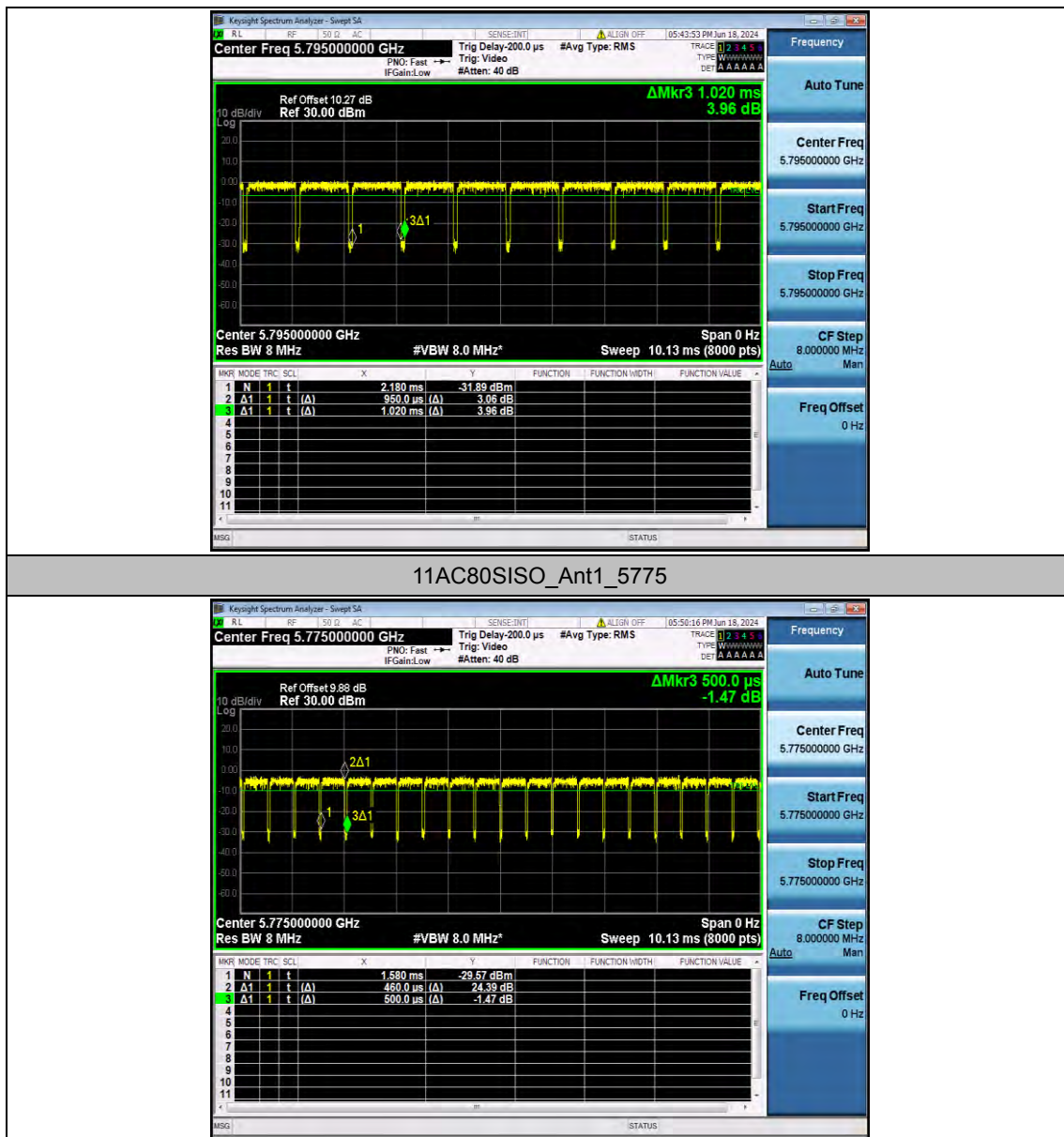
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix 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	7.57	92.76	0.33	7.90	≤30.00	PASS
		5785	7.64	92.73	0.33	7.97	≤30.00	PASS
		5825	6.79	92.76	0.33	7.12	≤30.00	PASS
11N20SISO	Ant1	5745	7.61	92.68	0.33	7.94	≤30.00	PASS
		5785	7.26	92.72	0.33	7.59	≤30.00	PASS
		5825	7.58	92.72	0.33	7.91	≤30.00	PASS
11N40SISO	Ant1	5755	6.71	93.07	0.31	7.02	≤30.00	PASS
		5795	7.41	92.16	0.35	7.76	≤30.00	PASS
11AC20SISO	Ant1	5745	7.32	92.72	0.33	7.65	≤30.00	PASS
		5785	7.28	92.72	0.33	7.61	≤30.00	PASS
		5825	7.44	92.75	0.33	7.77	≤30.00	PASS
11AC40SISO	Ant1	5755	7.61	92.16	0.35	7.96	≤30.00	PASS
		5795	7.47	93.14	0.31	7.78	≤30.00	PASS
11AC80SISO	Ant1	5775	6.94	92.00	0.36	7.30	≤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	-9.58	≤30.00	PASS
		5785	-8.71	≤30.00	PASS
		5825	-8.44	≤30.00	PASS
11N20SISO	Ant1	5745	-9.78	≤30.00	PASS
		5785	-9.35	≤30.00	PASS
		5825	-8.94	≤30.00	PASS
11N40SISO	Ant1	5755	-12.89	≤30.00	PASS
		5795	-12.43	≤30.00	PASS
11AC20SISO	Ant1	5745	-10.02	≤30.00	PASS
		5785	-9.34	≤30.00	PASS
		5825	-8.90	≤30.00	PASS
11AC40SISO	Ant1	5755	-13.11	≤30.00	PASS
		5795	-12.29	≤30.00	PASS
11AC80SISO	Ant1	5775	-15.50	≤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



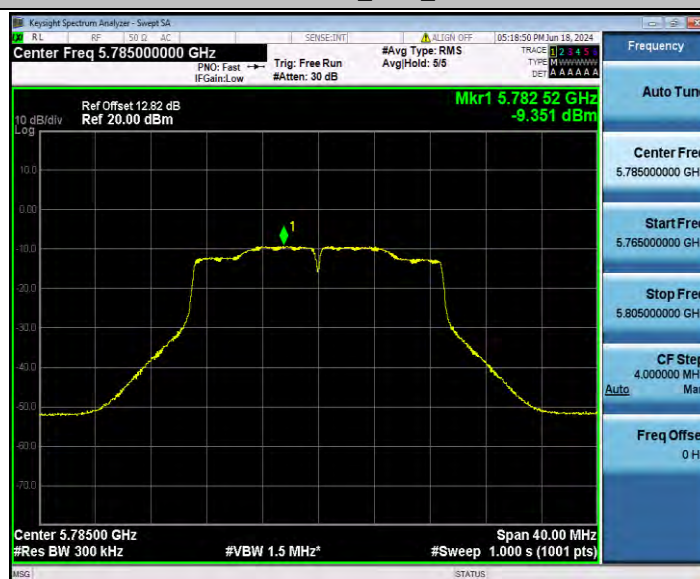
11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



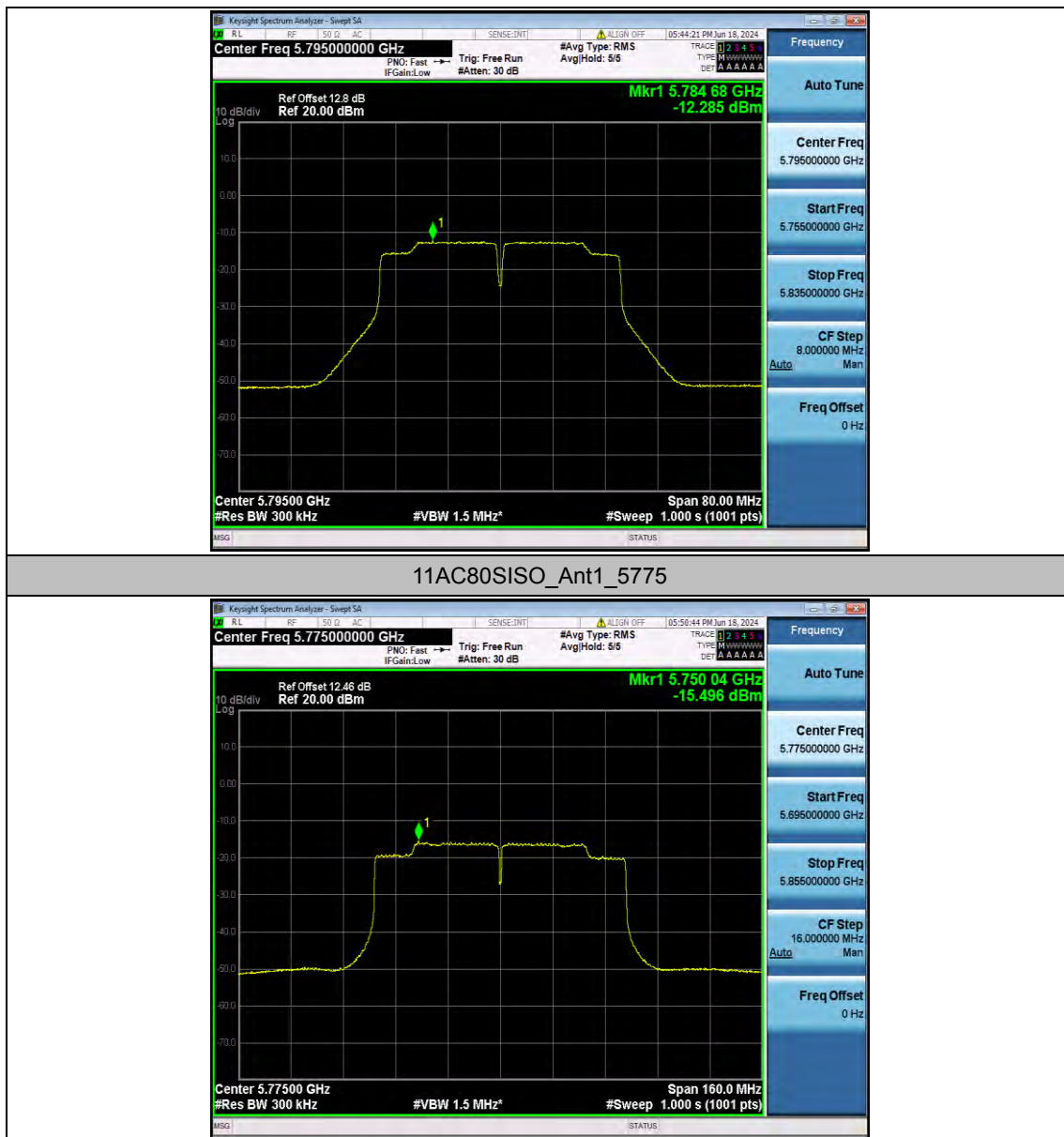
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



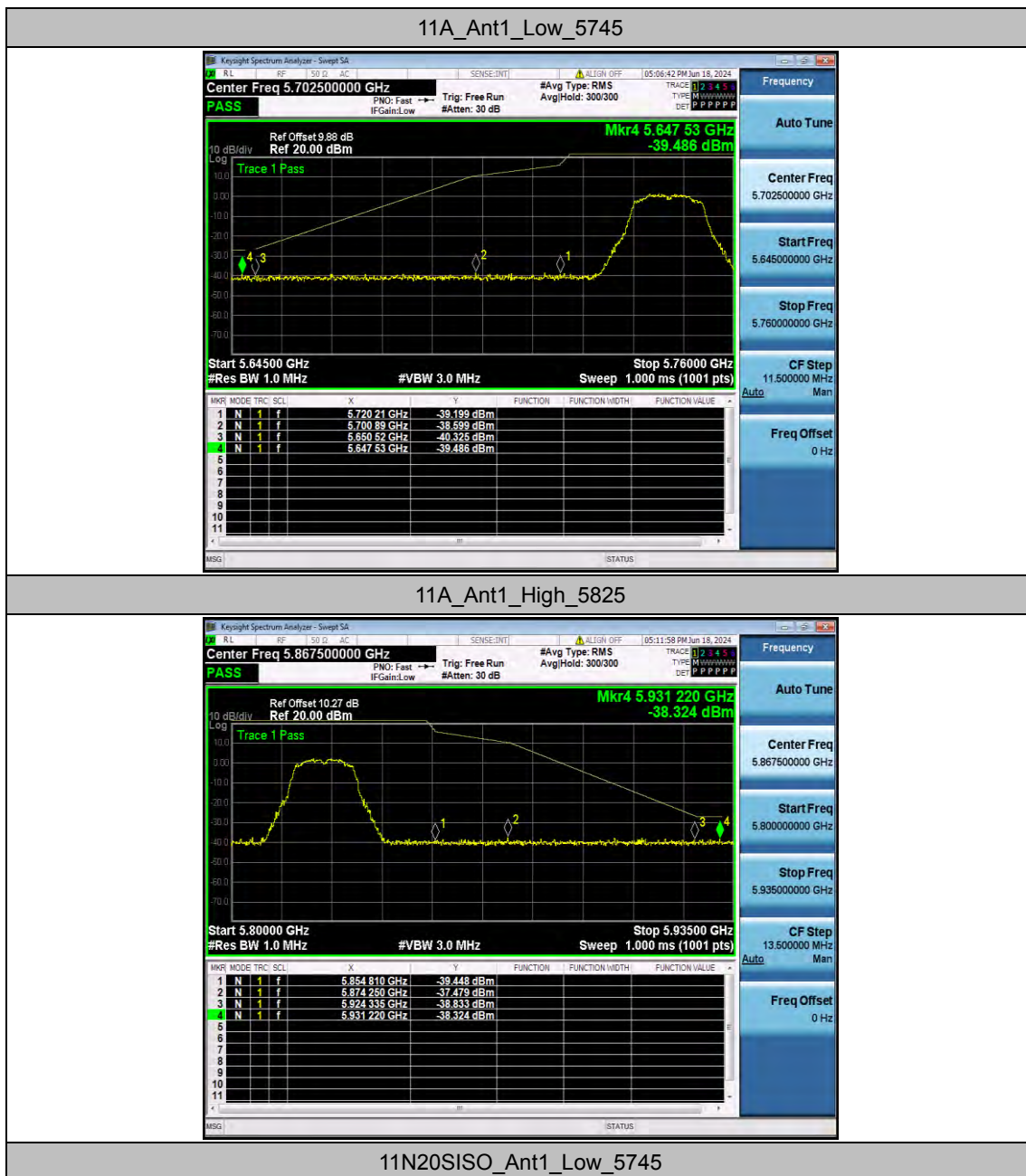
Appendix E.6: Band edge measurements

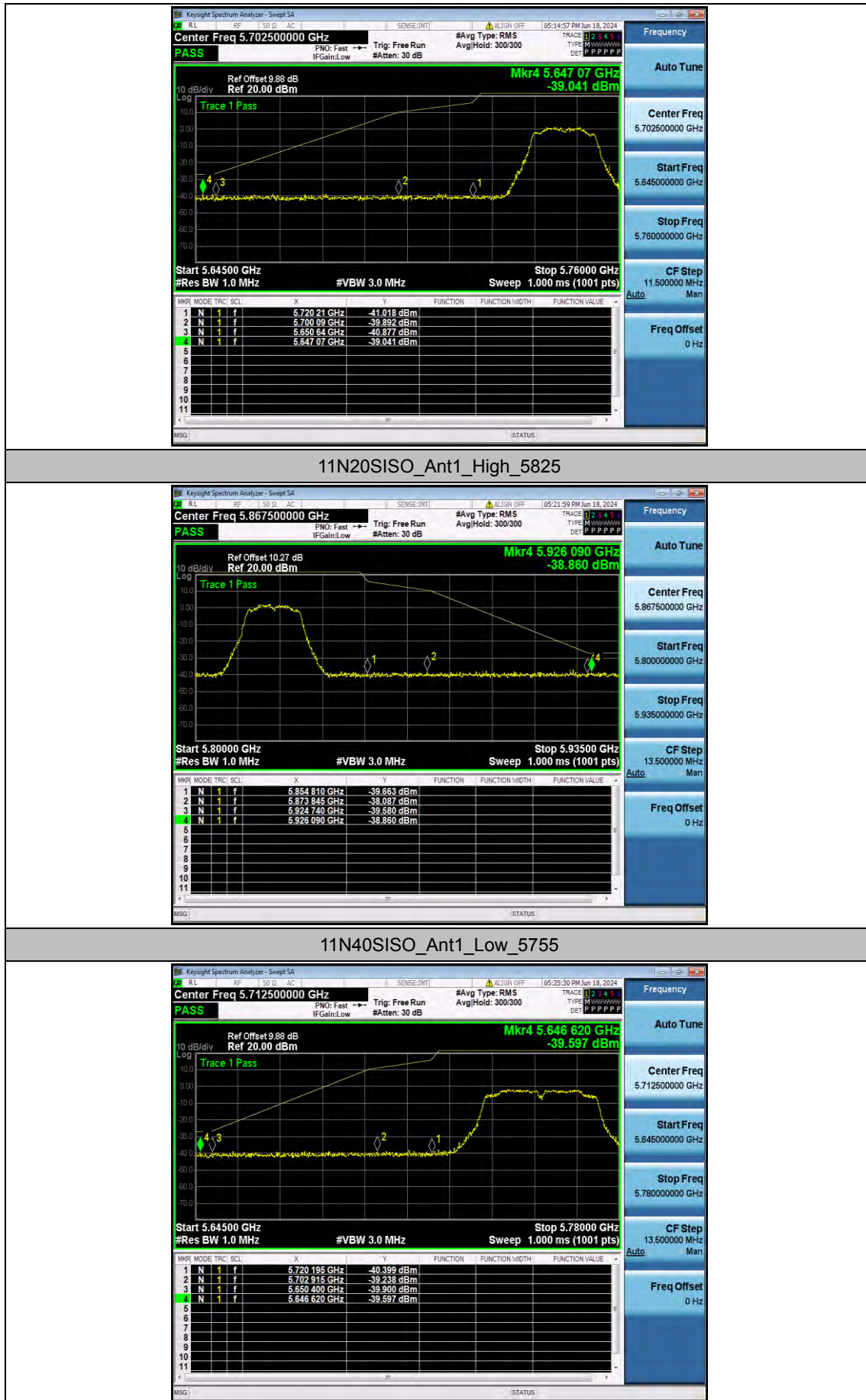
Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-40.33	≤-26.62	PASS
				5700~5720	-38.6	≤10.25	PASS
				5720~5725	-39.2	≤16.08	PASS
				5760~5650	-39.49	≤-27	PASS
		High	5825	5850~5855	-39.45	≤16.03	PASS
				5855~5875	-37.48	≤10.21	PASS
				5875~5925	-38.83	≤-26.51	PASS
				5925~5935	-38.32	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-40.88	≤-26.53	PASS
				5700~5720	-39.89	≤10.02	PASS
				5720~5725	-41.02	≤16.08	PASS
				5760~5650	-39.04	≤-27	PASS
		High	5825	5850~5855	-39.66	≤16.03	PASS
				5855~5875	-38.09	≤10.32	PASS
				5875~5925	-39.58	≤-26.81	PASS
				5925~5935	-38.86	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-39.9	≤-26.70	PASS
				5700~5720	-39.24	≤10.82	PASS
				5720~5725	-40.4	≤16.04	PASS
				5780~5650	-39.6	≤-27	PASS
		High	5795	5850~5855	-39.79	≤15.66	PASS
				5855~5875	-39.11	≤10.48	PASS
				5875~5925	-39.02	≤-26.10	PASS
				5925~5935	-38.8	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-40.55	≤-26.10	PASS
				5700~5720	-39.17	≤10.15	PASS
				5720~5725	-41.21	≤16.08	PASS
				5760~5650	-39.78	≤-27	PASS
		High	5825	5850~5855	-39.62	≤15.73	PASS
				5855~5875	-37.41	≤10.32	PASS
				5875~5925	-39.5	≤-26.81	PASS
				5925~5935	-38.65	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-40.98	≤-26.50	PASS
				5700~5720	-38.68	≤10.02	PASS
				5720~5725	-39.66	≤16.66	PASS
				5780~5650	-39.1	≤-27	PASS

		High	5795	5850~5855	-40.07	≤ 15.66	PASS
				5855~5875	-39.18	≤ 10.43	PASS
				5875~5925	-39.78	≤ -26.95	PASS
				5925~5935	-38.41	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-40.46	≤ -26.91	PASS
				5700~5720	-37.37	≤ 10.44	PASS
				5720~5725	-38.31	≤ 15.65	PASS
				5800~5650	-39.68	≤ -27	PASS
		High	5775	5850~5855	-38.37	≤ 16.68	PASS
				5855~5875	-39.3	≤ 10.14	PASS
				5875~5925	-39.72	≤ -26.73	PASS
				5925~5935	-39.05	≤ -27	PASS

Test Graphs B4





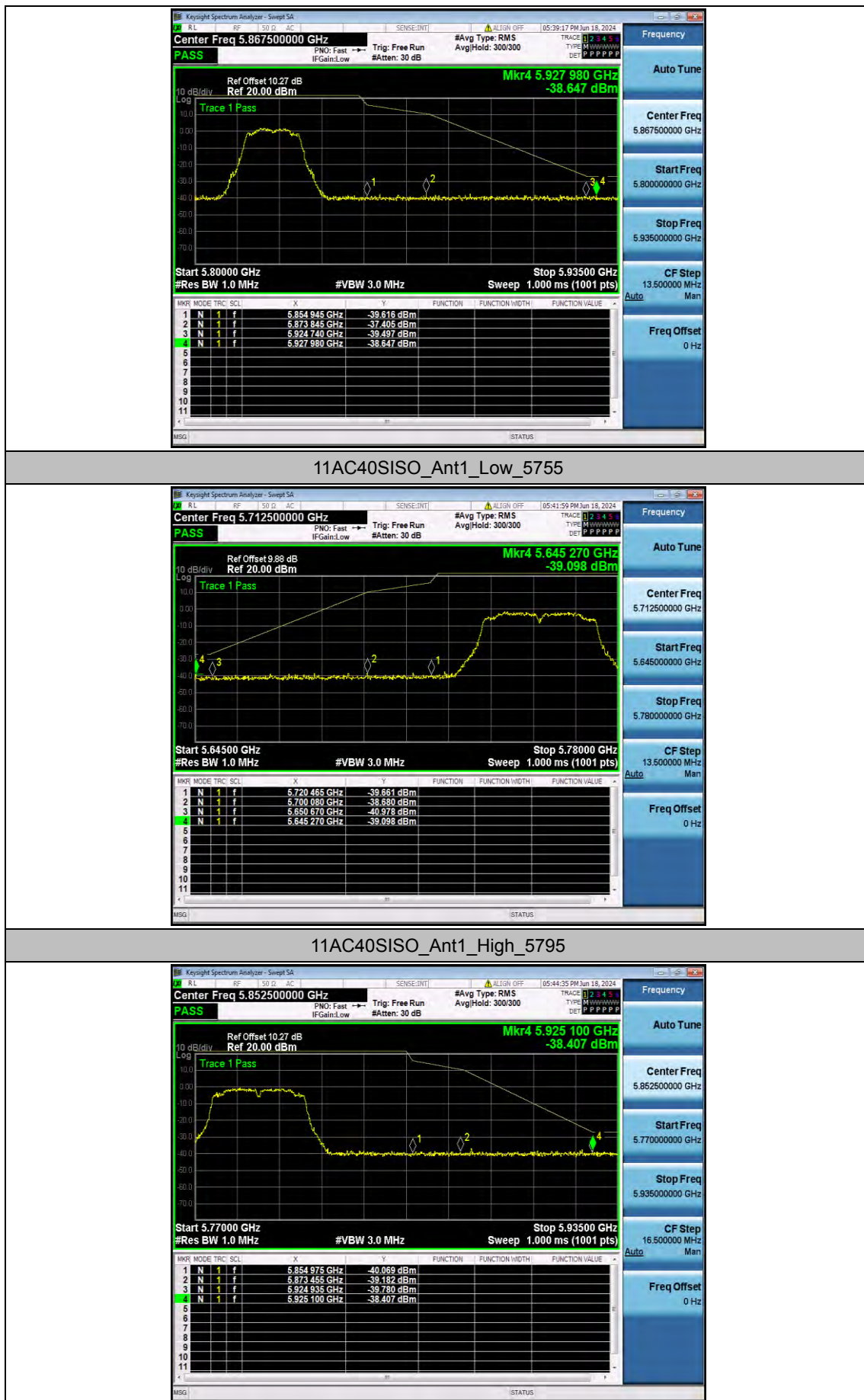
11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775

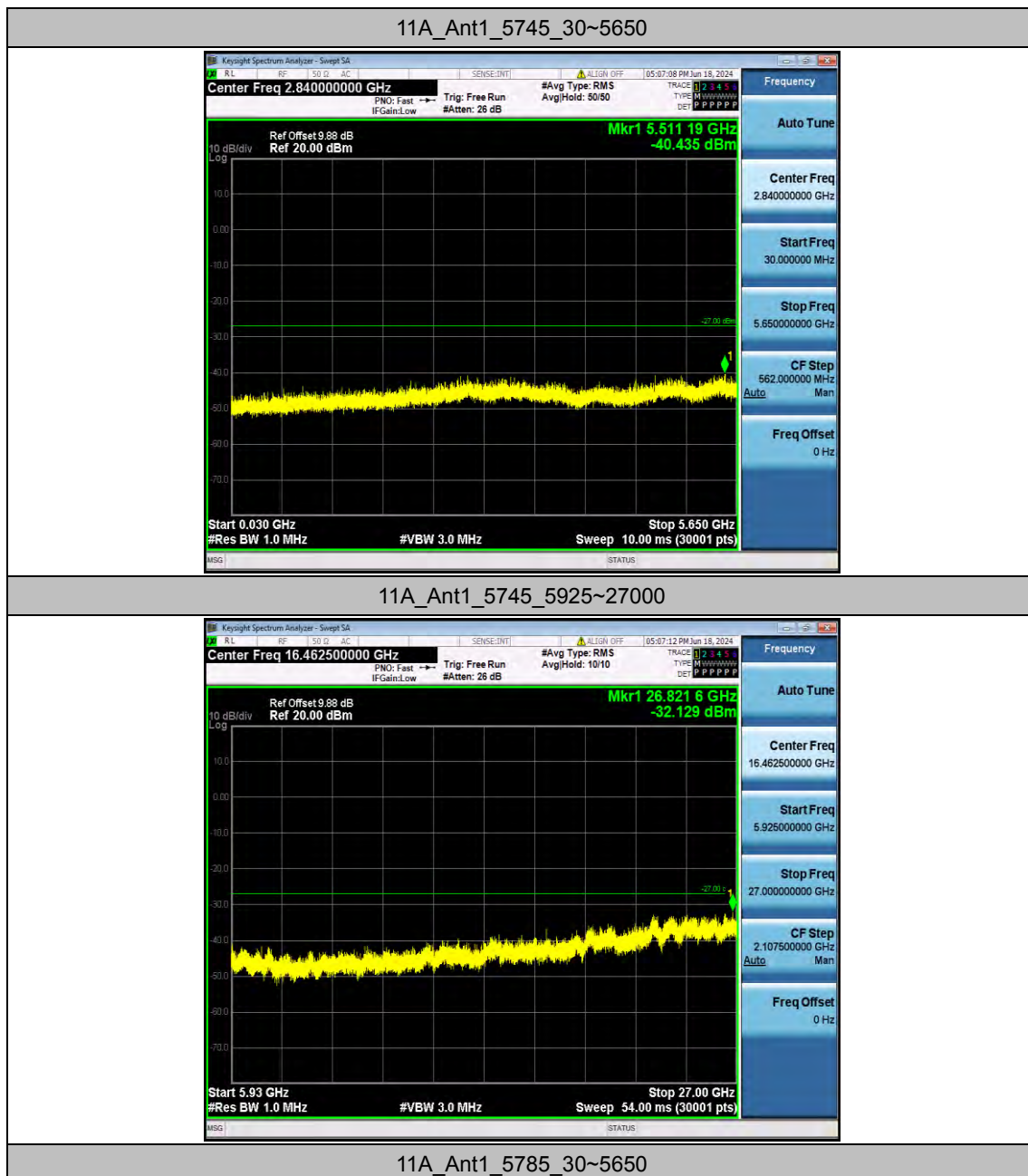


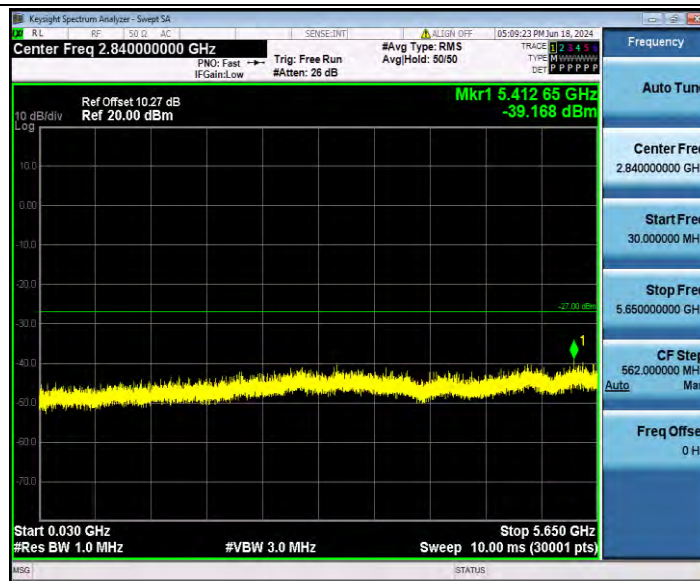
Appendix E.7: Conducted Spurious Emission

Test Result

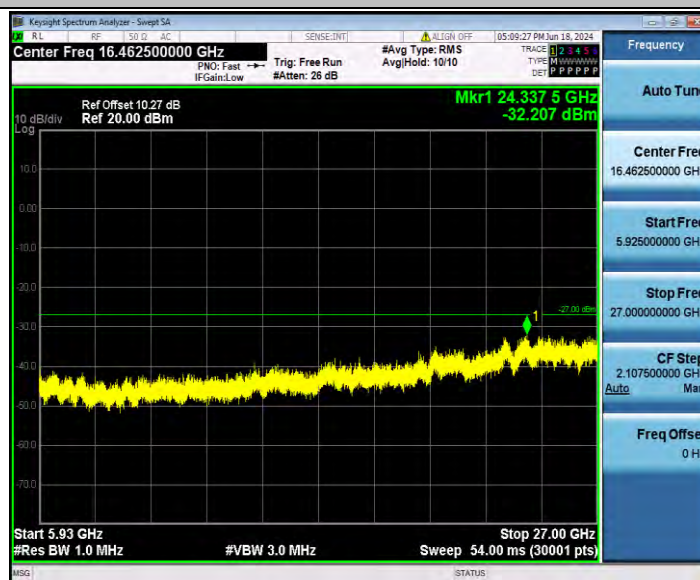
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5511.19	-40.44	≤-27	PASS
			5925~27000	26821.57	-32.13	≤-27	PASS
		5785	30~5650	5412.65	-39.17	≤-27	PASS
			5925~27000	24337.53	-32.21	≤-27	PASS
		5825	30~5650	2498.3	-40.36	≤-27	PASS
			5925~27000	26874.96	-31.47	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5416.02	-40.38	≤-27	PASS
			5925~27000	24987.34	-32.49	≤-27	PASS
		5785	30~5650	5527.86	-40.24	≤-27	PASS
			5925~27000	25545.12	-31.93	≤-27	PASS
		5825	30~5650	5458.92	-39.42	≤-27	PASS
			5925~27000	26582.72	-31.92	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5444.5	-39.92	≤-27	PASS
			5925~27000	24785.02	-32.38	≤-27	PASS
		5795	30~5650	2630	-40.05	≤-27	PASS
			5925~27000	24272.9	-30.5	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5430.82	-39.69	≤-27	PASS
			5925~27000	24794.15	-32.04	≤-27	PASS
		5785	30~5650	5438.88	-39.68	≤-27	PASS
			5925~27000	24820.85	-32.03	≤-27	PASS
		5825	30~5650	5465.85	-39.9	≤-27	PASS
			5925~27000	26720.41	-32.14	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5436.63	-40.29	≤-27	PASS
			5925~27000	24163.31	-32.03	≤-27	PASS
		5795	30~5650	3166.52	-39.75	≤-27	PASS
			5925~27000	26903.76	-31.48	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5469.04	-40.23	≤-27	PASS
			5925~27000	23580.23	-32.12	≤-27	PASS

Test Graphs

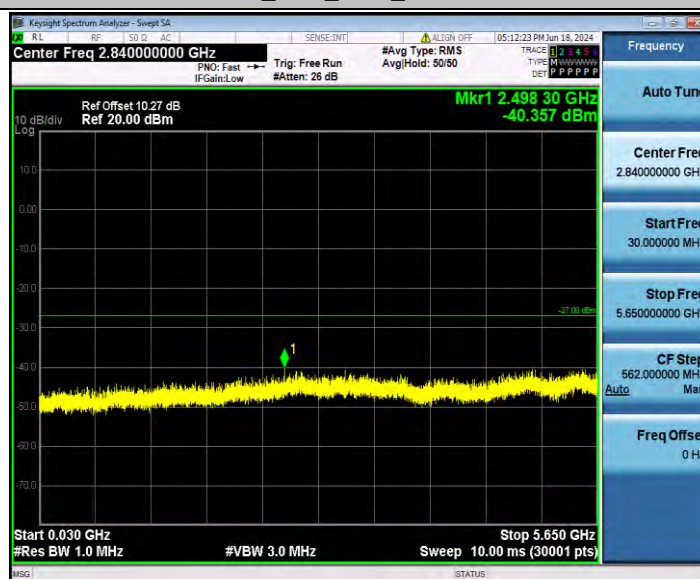




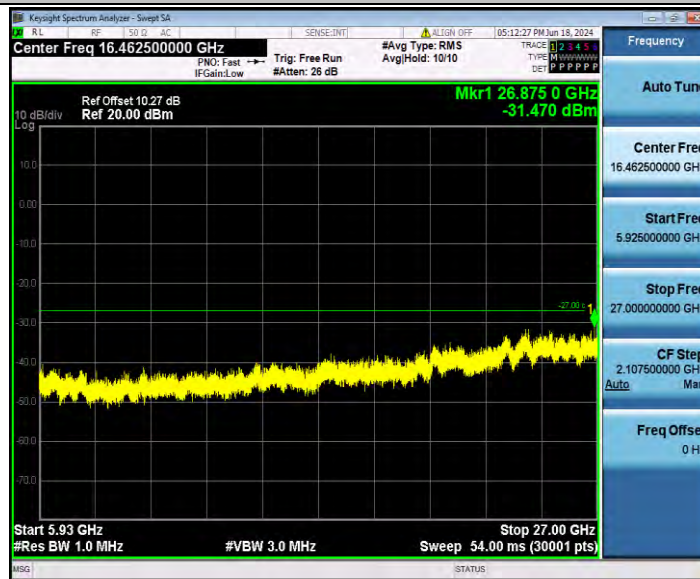
11A_Ant1_5785_5925~27000



11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~27000



11N20SISO_Ant1_5745_30~5650



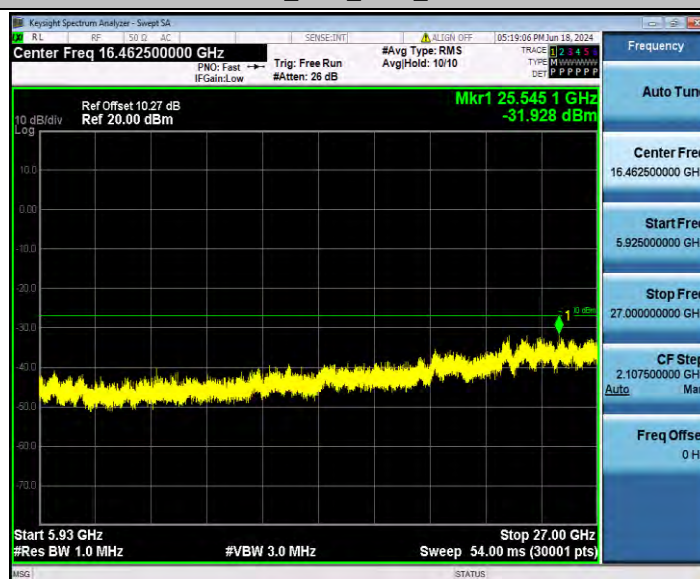
11N20SISO_Ant1_5745_5925~27000



11N20SISO_Ant1_5785_30~5650



11N20SISO_Ant1_5785_5925~27000



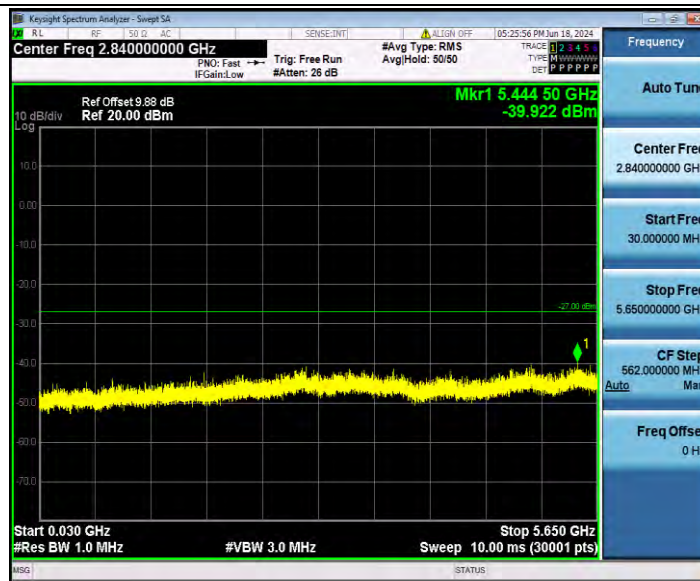
11N20SISO_Ant1_5825_30~5650



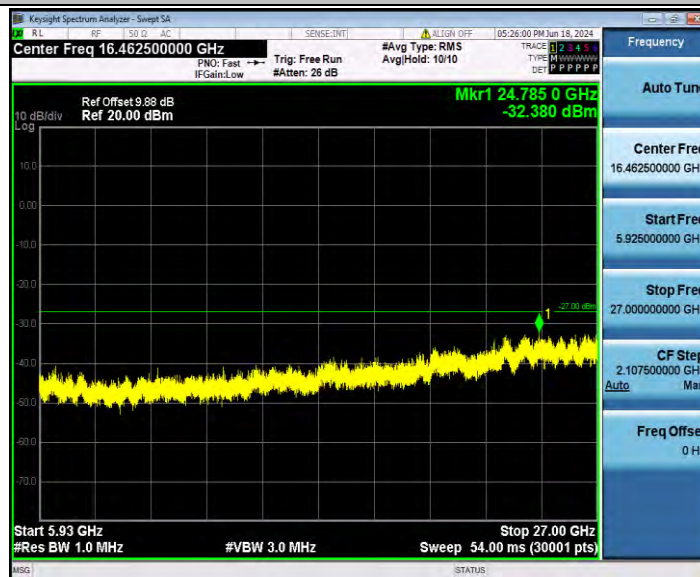
11N20SISO_Ant1_5825_5925~27000



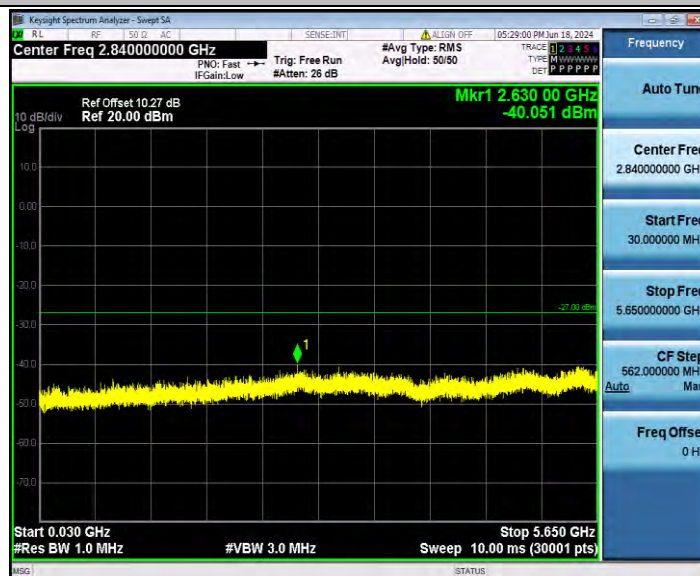
11N40SISO_Ant1_5755_30~5650



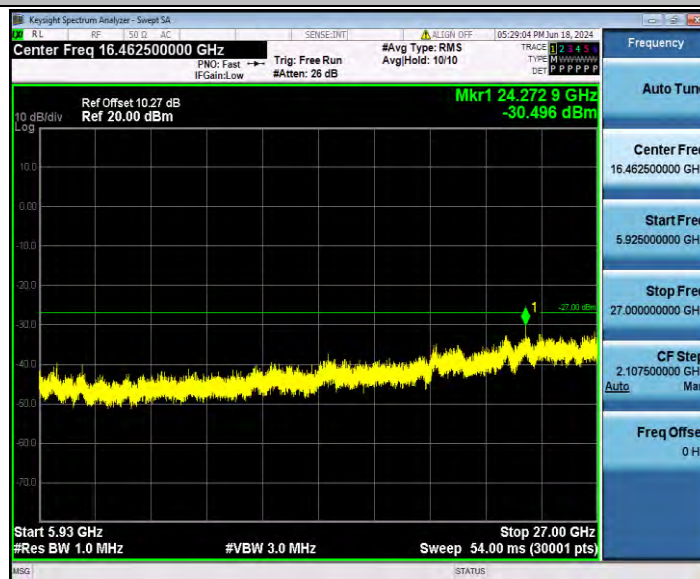
11N40SISO_Ant1_5755_5925~27000



11N40SISO_Ant1_5795_30~5650



11N40SISO_Ant1_5795_5925~27000



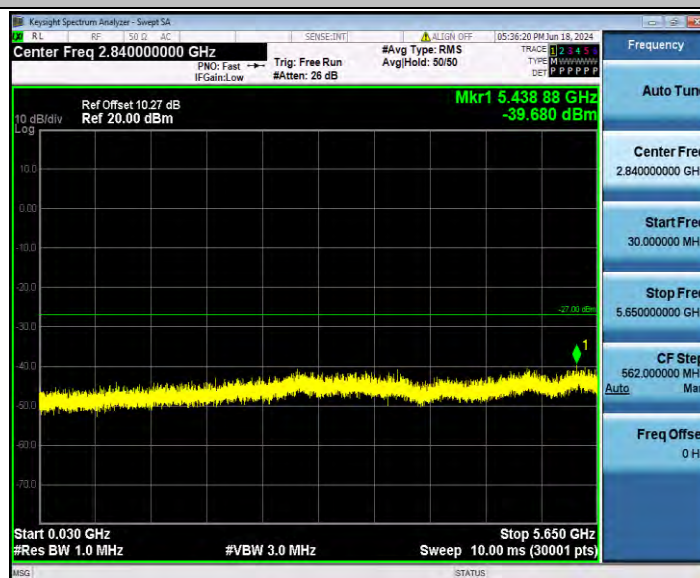
11AC20SISO_Ant1_5745_30~5650



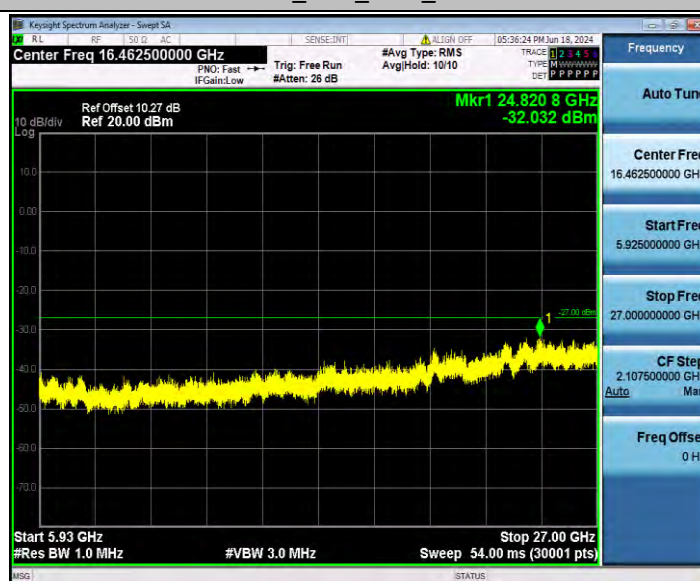
11AC20SISO_Ant1_5745_5925~27000



11AC20SISO_Ant1_5785_30~5650



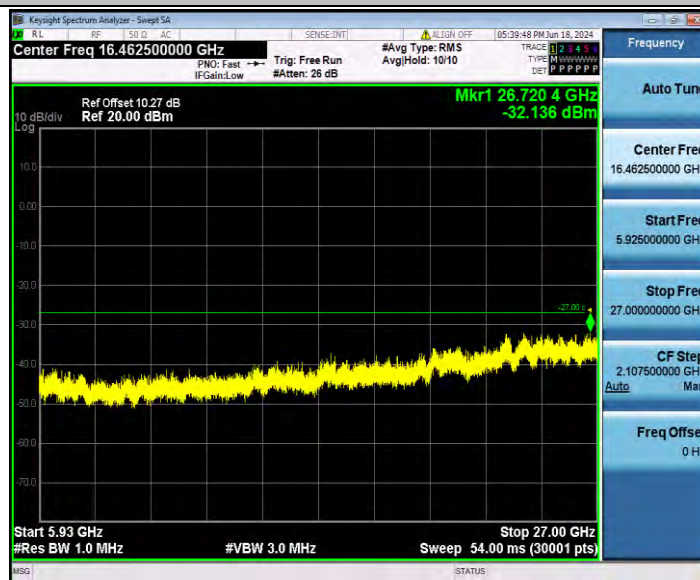
11AC20SISO_Ant1_5785_5925~27000



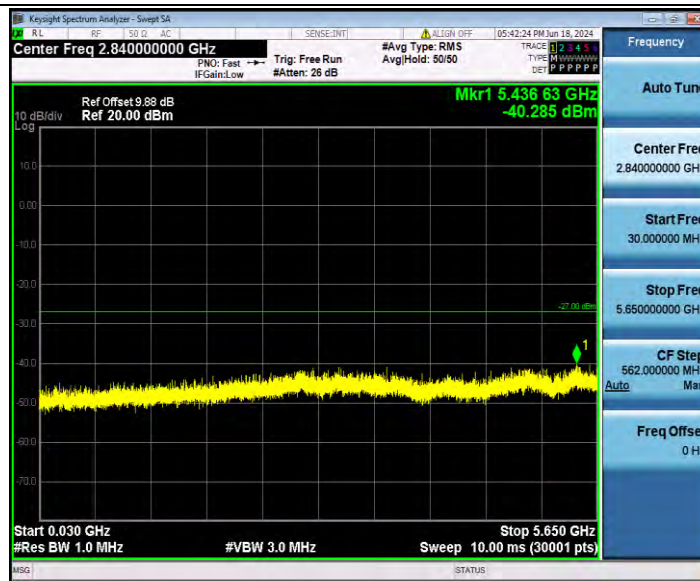
11AC20SISO_Ant1_5825_30~5650



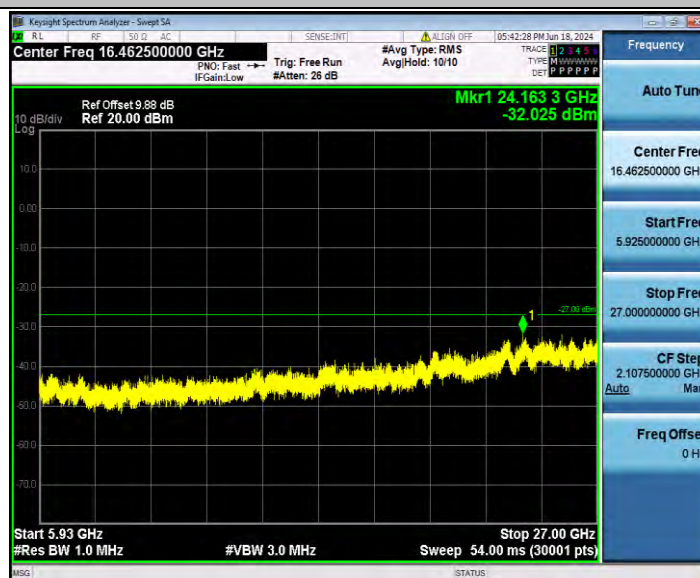
11AC20SISO_Ant1_5825_5925~27000



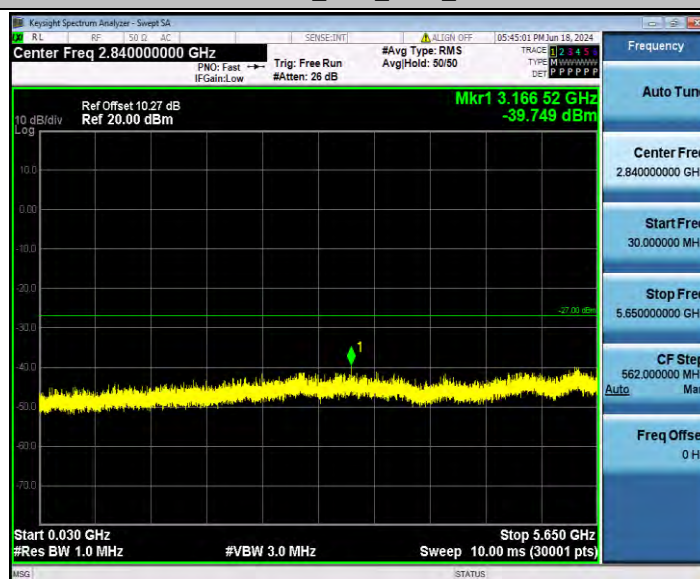
11AC40SISO_Ant1_5755_30~5650



11AC40SISO_Ant1_5755_5925~27000



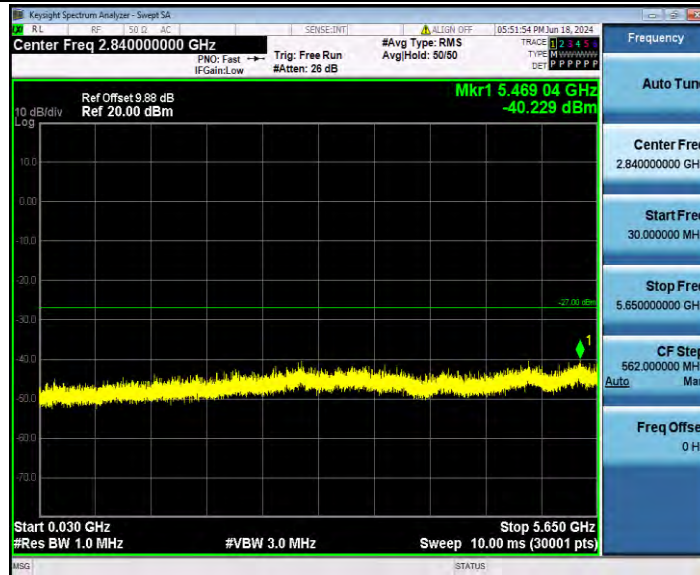
11AC40SISO_Ant1_5795_30~5650



11AC40SISO_Ant1_5795_5925~27000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~27000

