

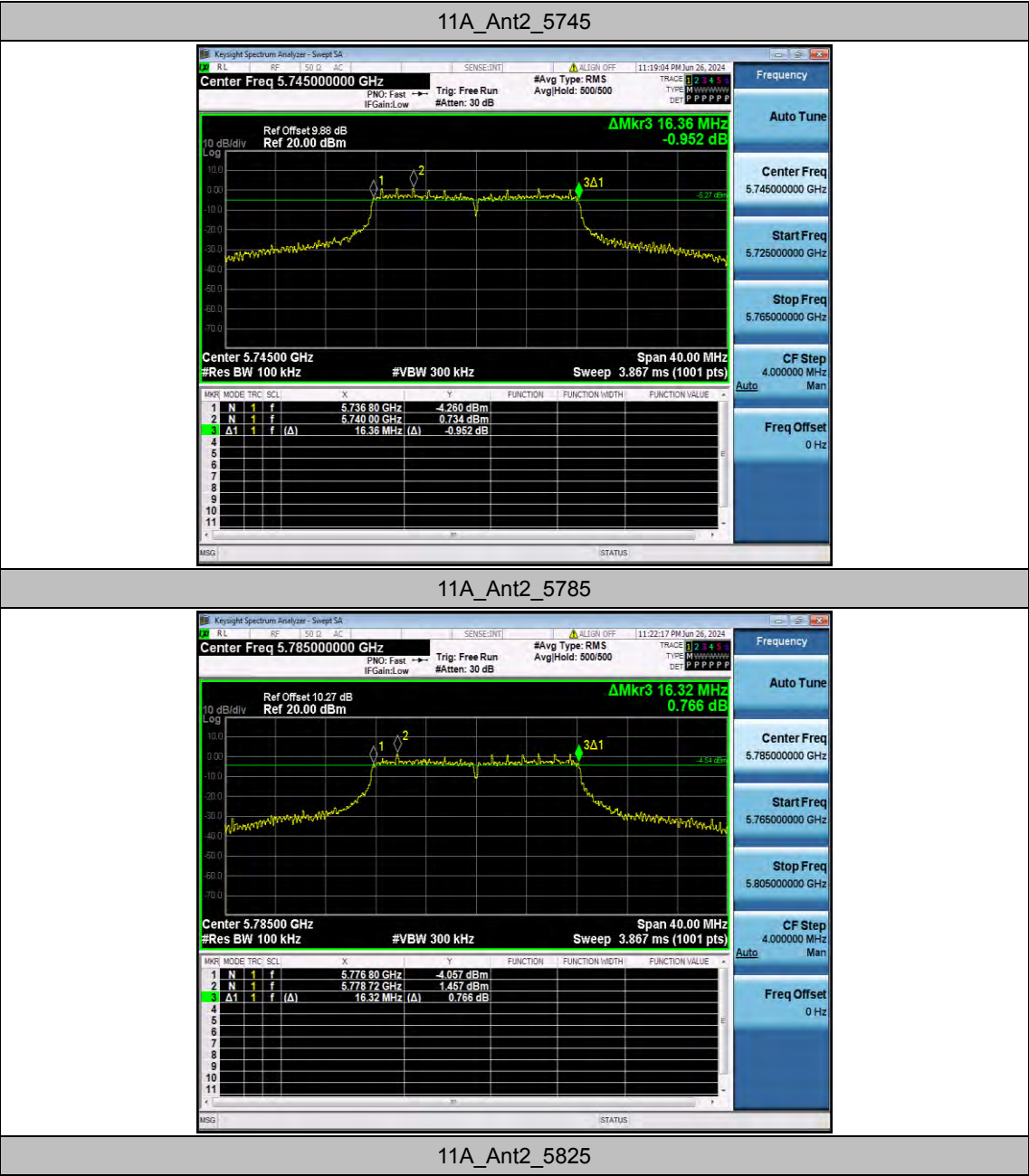
Case No. : <u>CTA24071501904</u>	
Ambient Condition: <u>24</u> °C, <u>51</u> %RH	
According Standard: <u>■Part15E</u>	
Test Date: <u>2024.6.20-2024.8.12</u>	Test Engineer: <u>Lushan Kong</u>

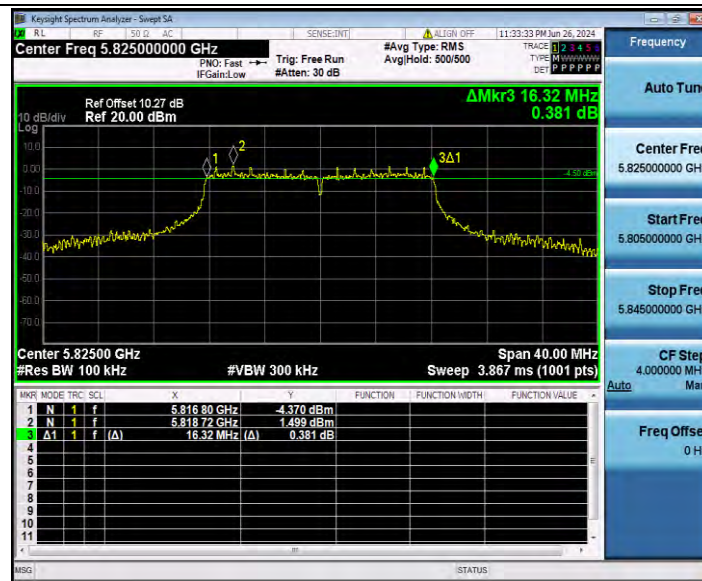
Appendix G.1: Min emission bandwidth

Test Result B4

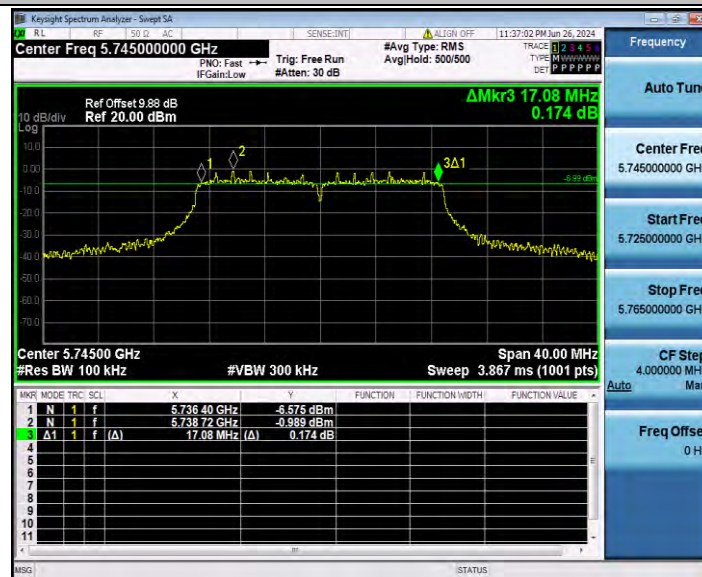
TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5745	16.360	5736.800	5753.160	0.5	PASS
		5785	16.320	5776.800	5793.120	0.5	PASS
		5825	16.320	5816.800	5833.120	0.5	PASS
11N20SISO	Ant2	5745	17.080	5736.400	5753.480	0.5	PASS
		5785	17.160	5776.360	5793.520	0.5	PASS
		5825	17.280	5816.200	5833.480	0.5	PASS
11N40SISO	Ant2	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	35.360	5777.240	5812.600	0.5	PASS
11AC20SISO	Ant2	5745	17.320	5736.200	5753.520	0.5	PASS
		5785	17.320	5776.200	5793.520	0.5	PASS
		5825	17.560	5816.200	5833.760	0.5	PASS
11AC40SISO	Ant2	5755	36.080	5737.000	5773.080	0.5	PASS
		5795	35.840	5777.000	5812.840	0.5	PASS
11AC80SISO	Ant2	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs B4

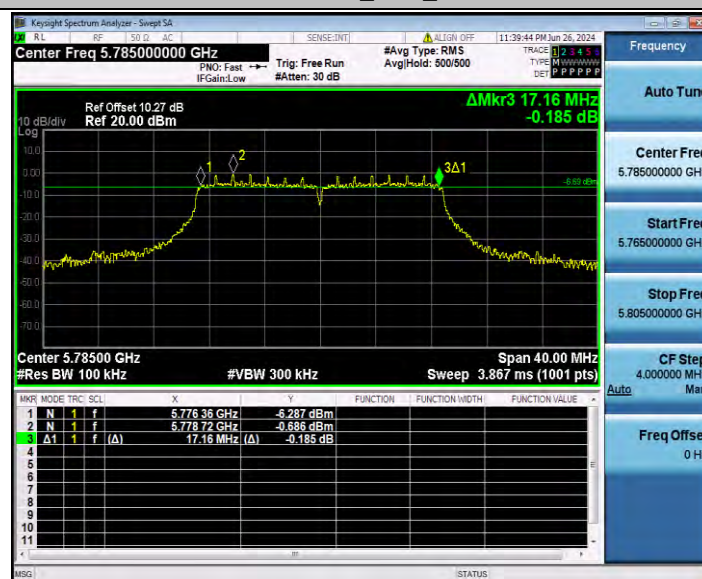




11N20SISO_Ant2_5745



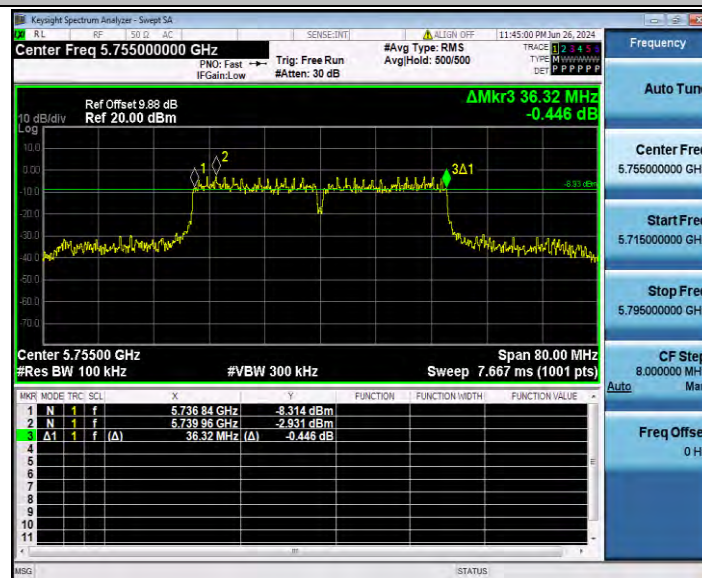
11N20SISO_Ant2_5785



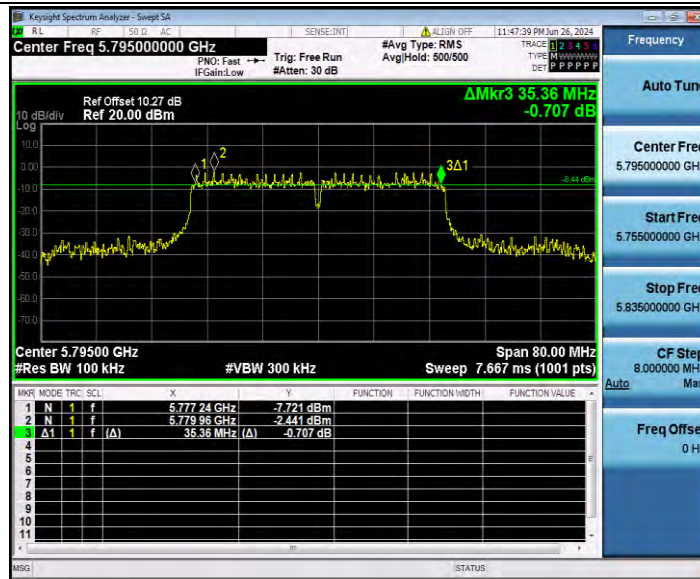
11N20SISO_Ant2_5825



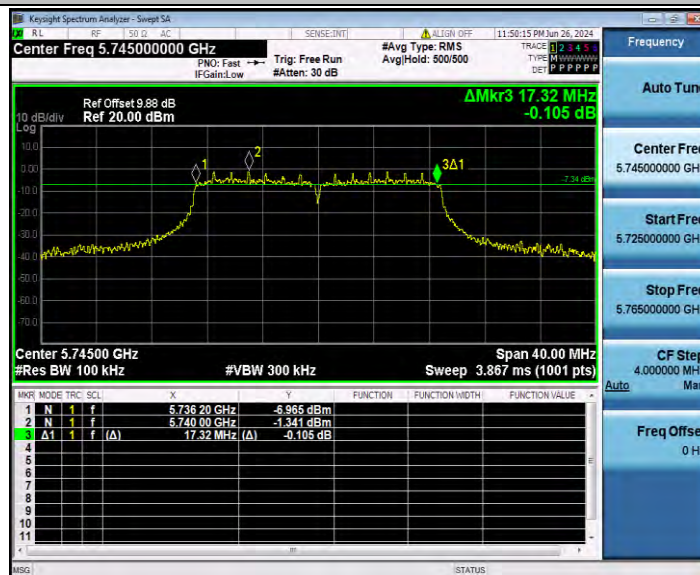
11N40SISO_Ant2_5755



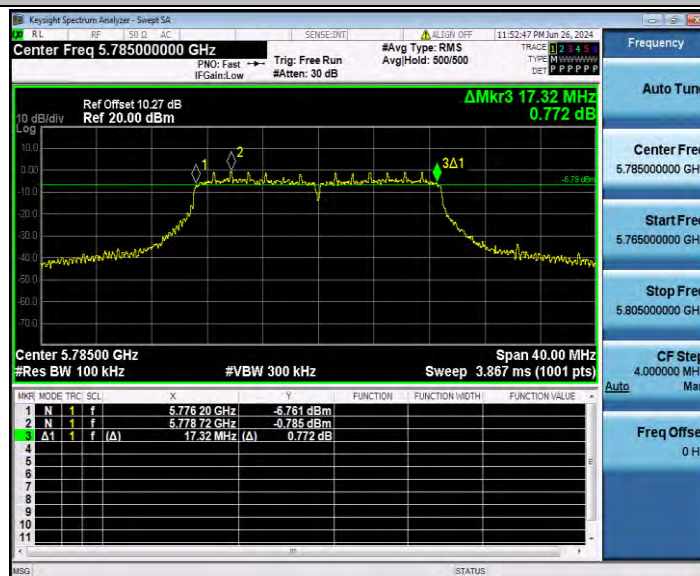
11N40SISO_Ant2_5795



11AC20SISO_Ant2_5745



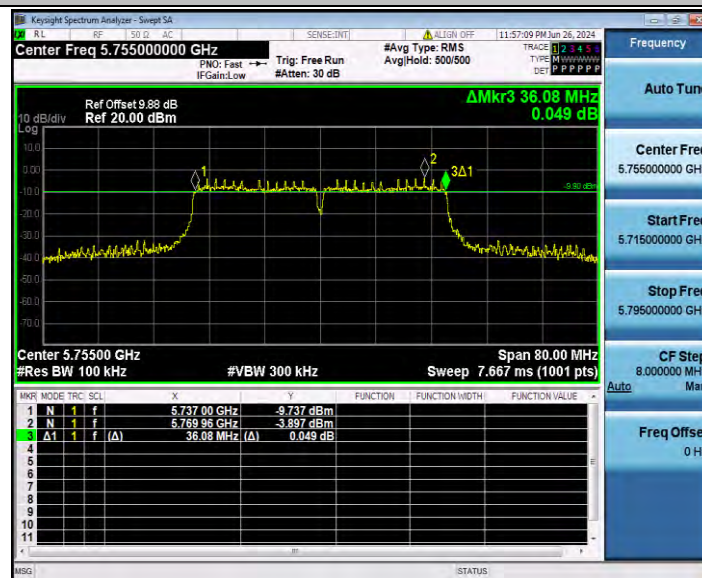
11AC20SISO_Ant2_5785



11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795

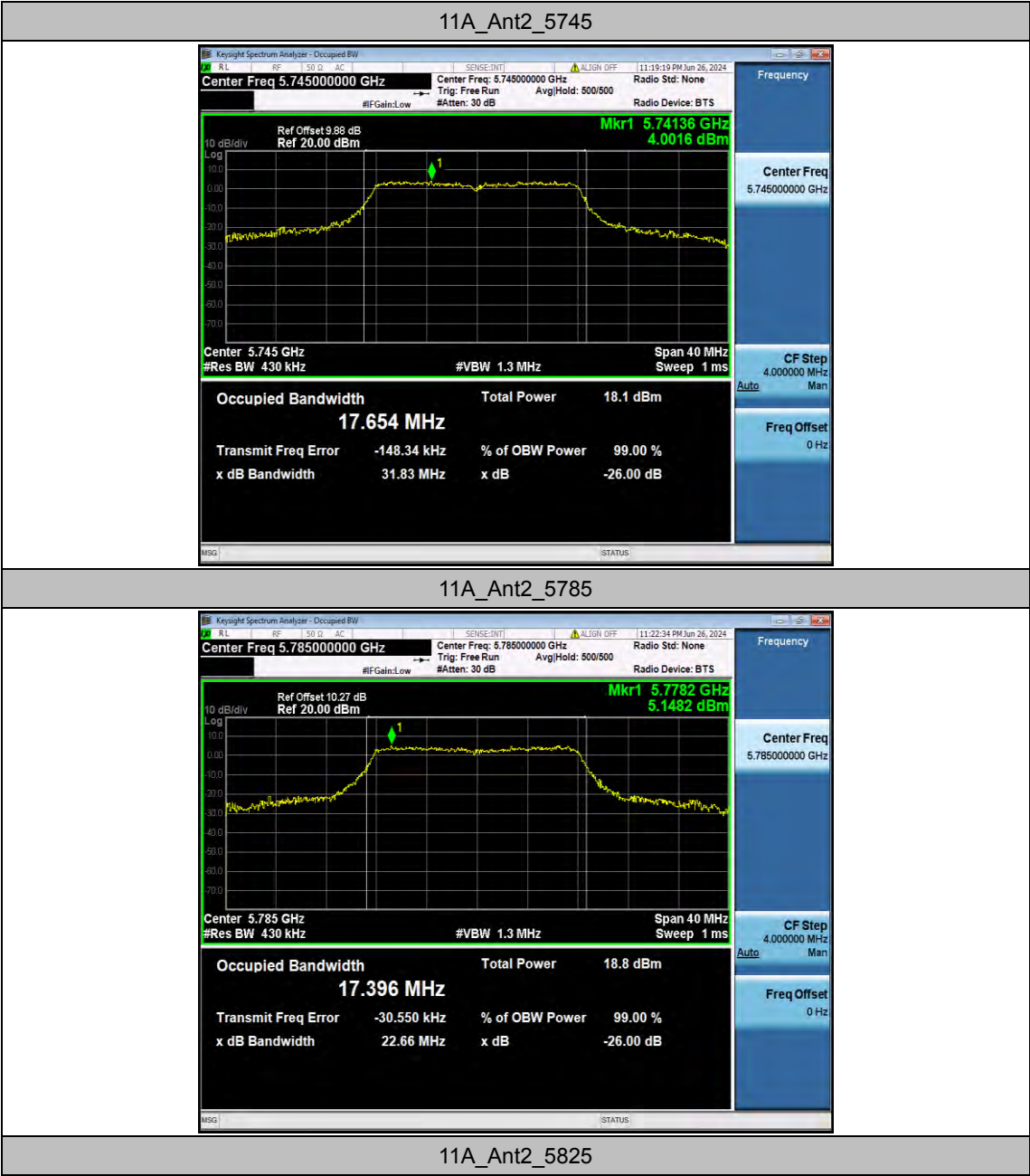


Appendix G.2: Occupied channel bandwidth

Test Result

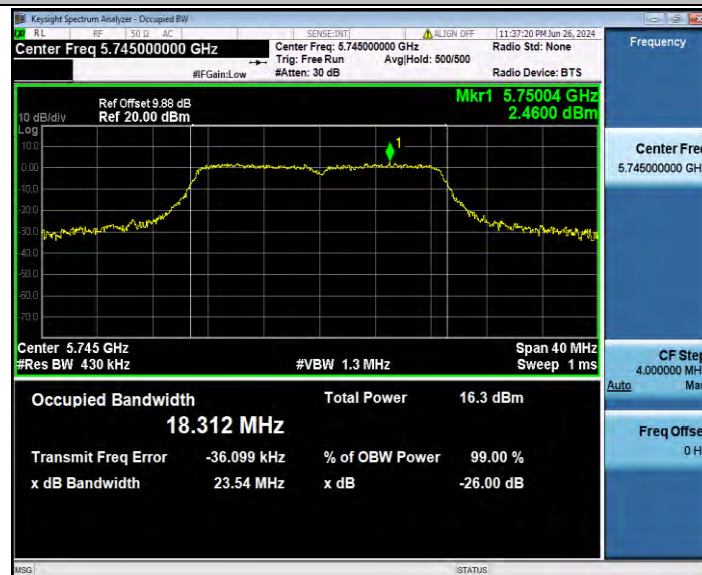
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5745	17.654	5736.0247	5753.6787	---	---
		5785	17.396	5776.2715	5793.6675	---	---
		5825	17.248	5816.3141	5833.5621	---	---
11N20SISO	Ant2	5745	18.312	5735.8079	5754.1199	---	---
		5785	18.195	5775.9326	5794.1276	---	---
		5825	18.017	5815.9643	5833.9813	---	---
11N40SISO	Ant2	5755	37.005	5736.5228	5773.5278	---	---
		5795	36.583	5776.7374	5813.3204	---	---
11AC20SISO	Ant2	5745	18.178	5735.9079	5754.0859	---	---
		5785	18.249	5775.8670	5794.1160	---	---
		5825	18.144	5815.9354	5834.0794	---	---
11AC40SISO	Ant2	5755	36.993	5736.4681	5773.4611	---	---
		5795	36.731	5776.6128	5813.3438	---	---
11AC80SISO	Ant2	5775	76.381	5736.7760	5813.1570	---	---

Test Graphs

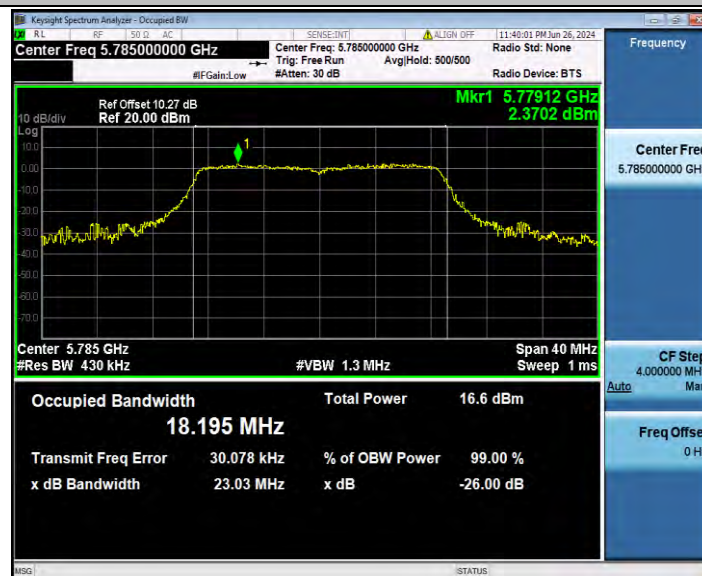




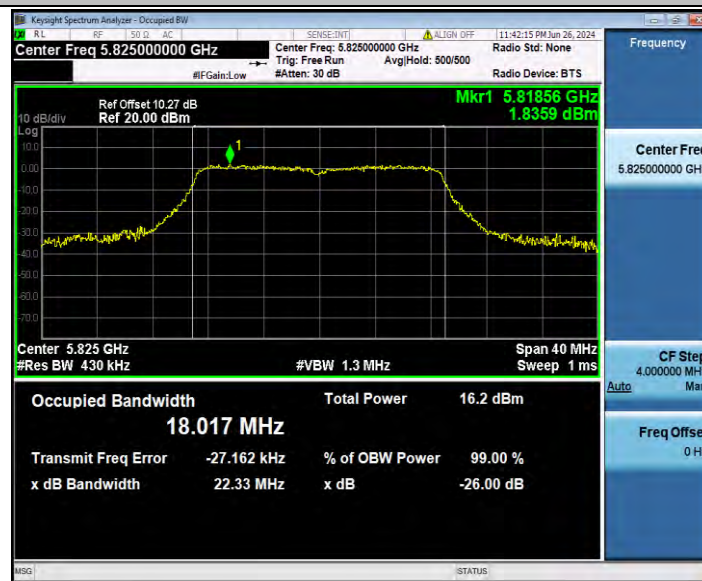
11N20SISO_Ant2_5745



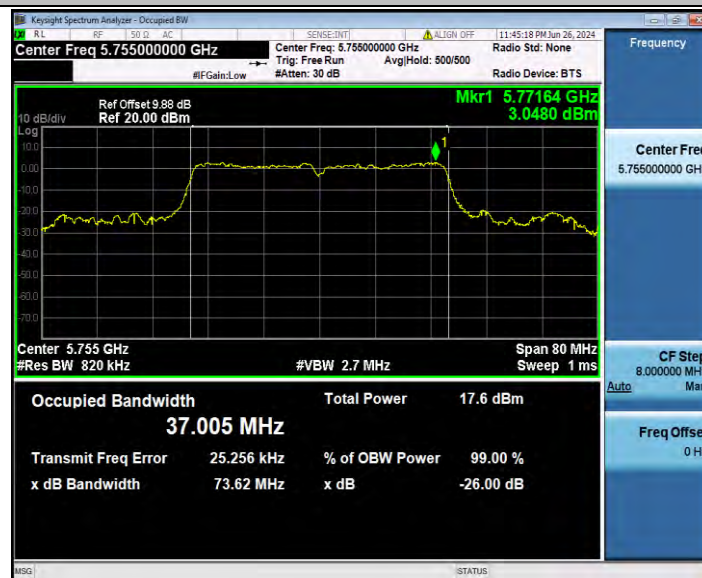
11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



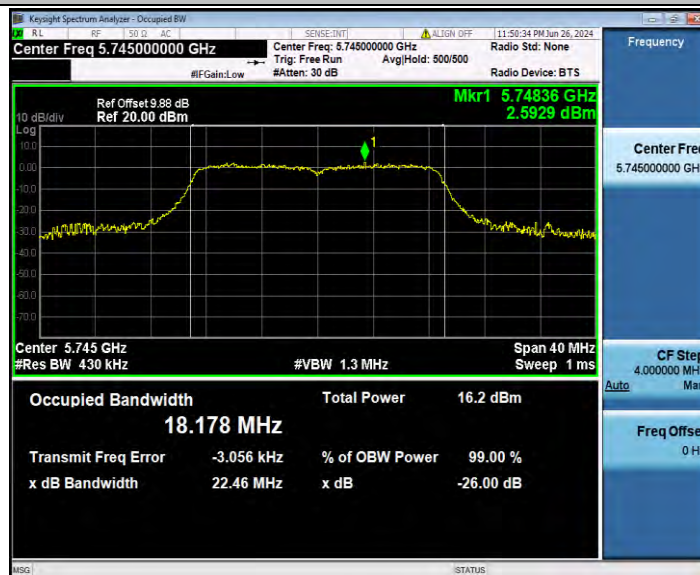
11N40SISO_Ant2_5755



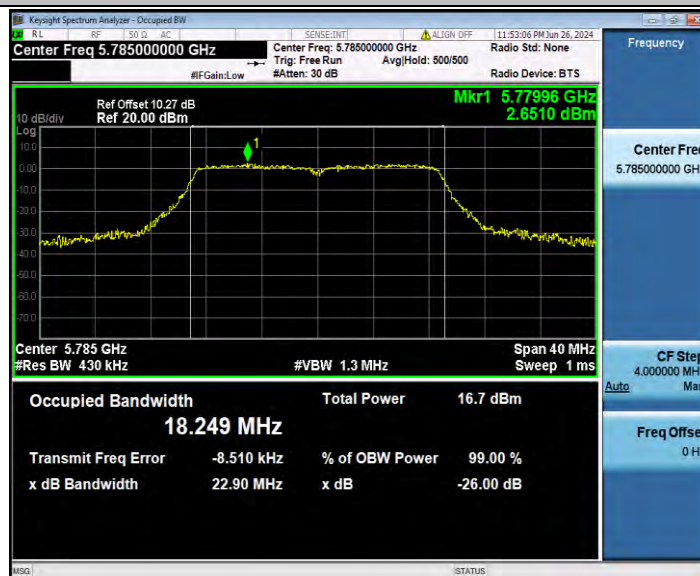
11N40SISO_Ant2_5795



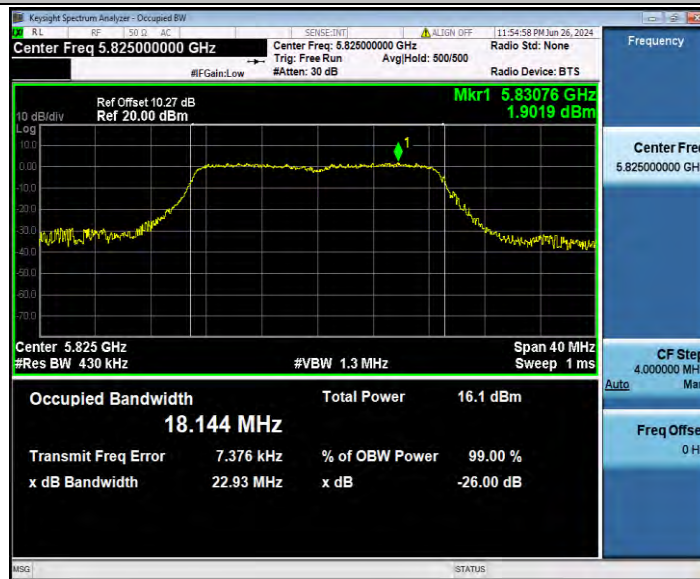
11AC20SISO_Ant2_5745



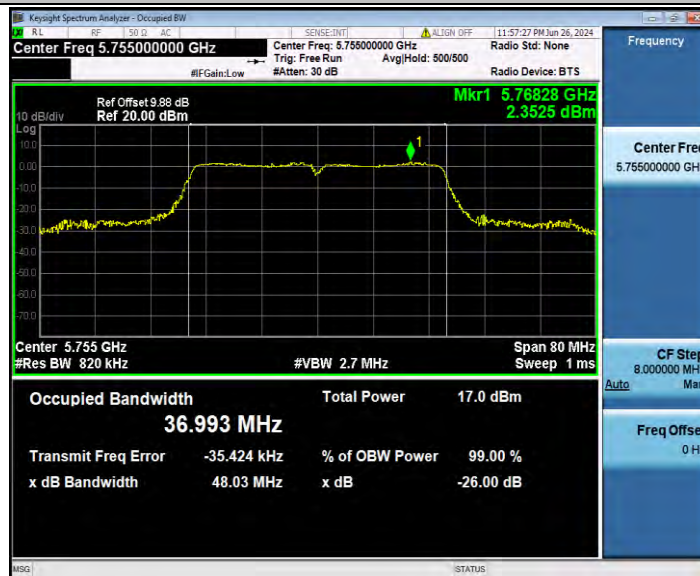
11AC20SISO_Ant2_5785



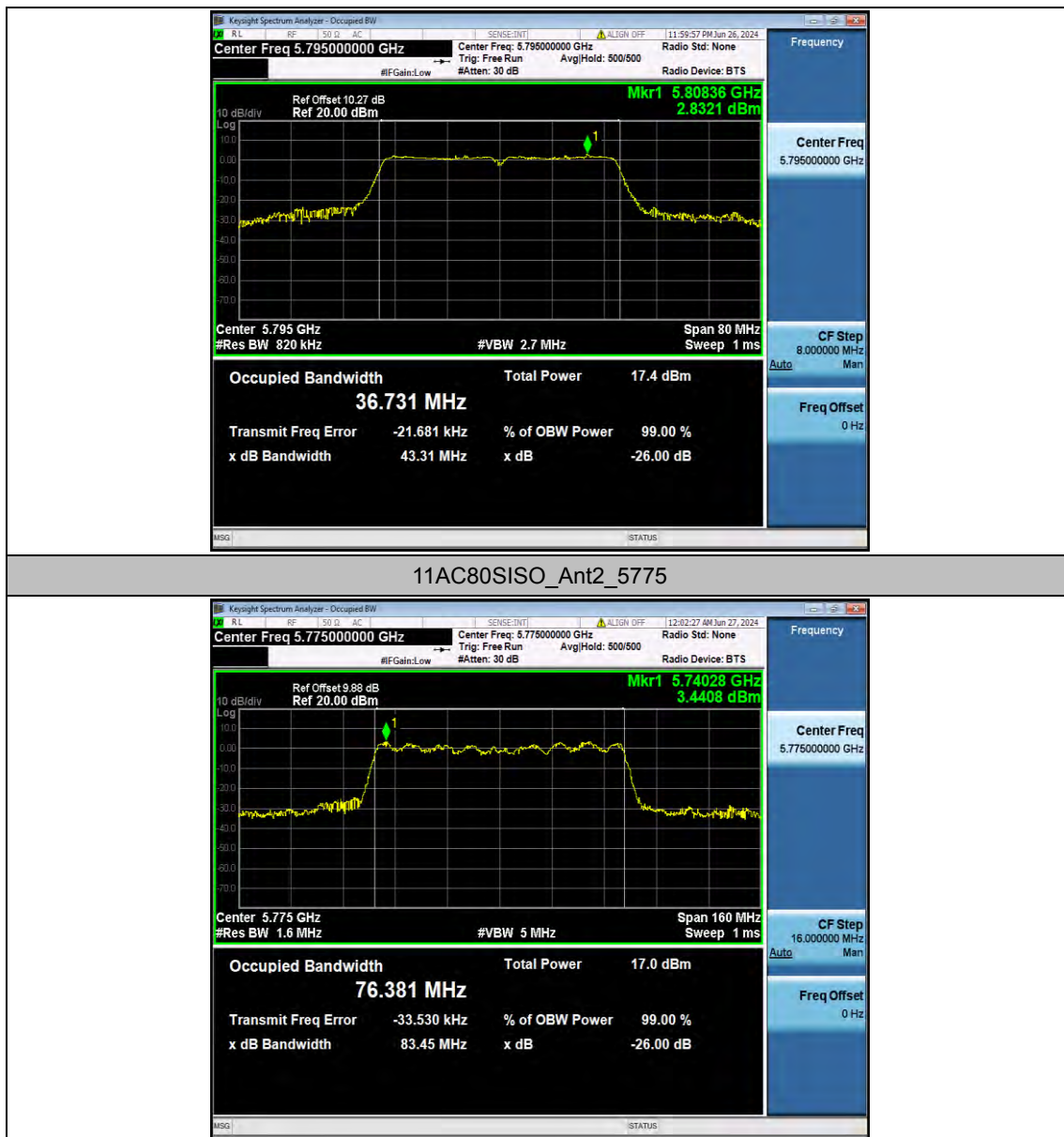
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795

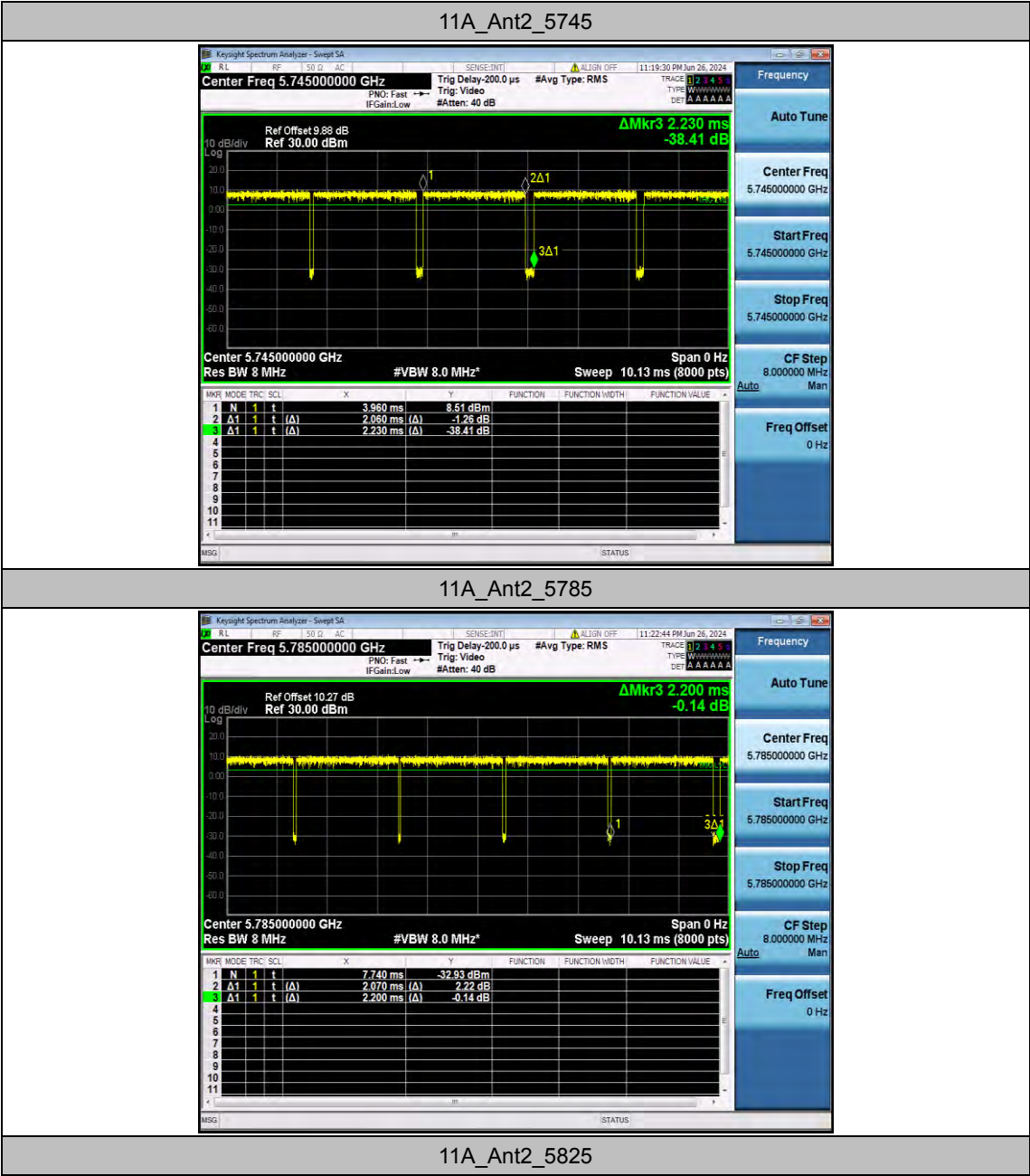


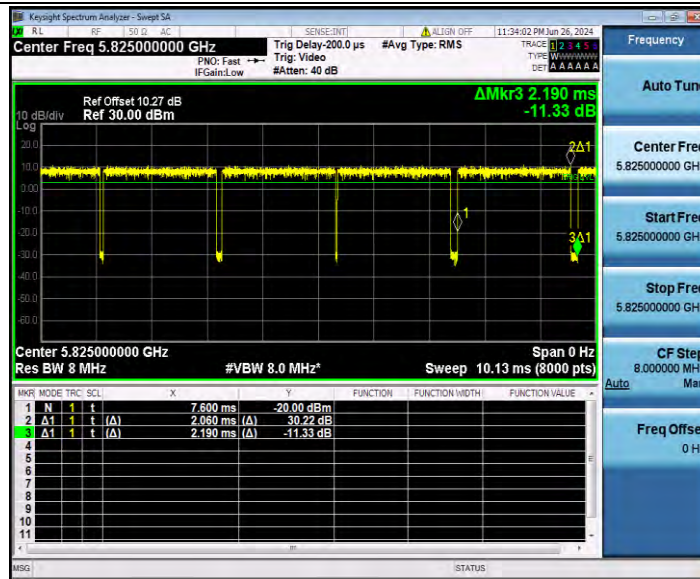
Appendix G.3: Duty Cycle

Test Result

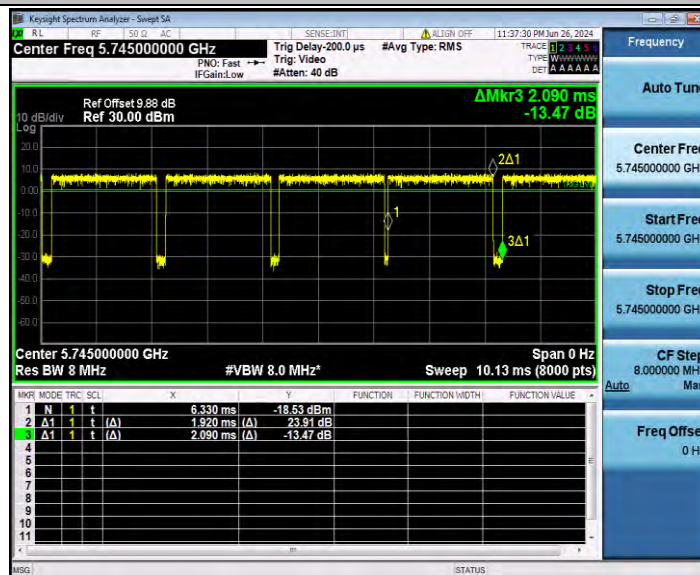
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant2	5745	2.06	2.23	92.38	0.34	0.49
		5785	2.07	2.20	94.09	0.26	0.48
		5825	2.06	2.19	94.06	0.27	0.49
11N20SISO	Ant2	5745	1.92	2.09	91.87	0.37	0.52
		5785	1.92	2.08	92.31	0.35	0.52
		5825	1.92	2.07	92.75	0.33	0.52
11N40SISO	Ant2	5755	0.12	0.30	40.00	3.98	8.33
		5795	0.13	0.30	43.33	3.63	7.69
11AC20SISO	Ant2	5745	1.94	2.09	92.82	0.32	0.52
		5785	1.93	2.07	93.24	0.30	0.52
		5825	1.93	2.07	93.24	0.30	0.52
11AC40SISO	Ant2	5755	0.96	1.13	84.96	0.71	1.04
		5795	0.95	1.12	84.82	0.72	1.05
11AC80SISO	Ant2	5775	0.46	0.64	71.88	1.43	2.17

Test Graphs

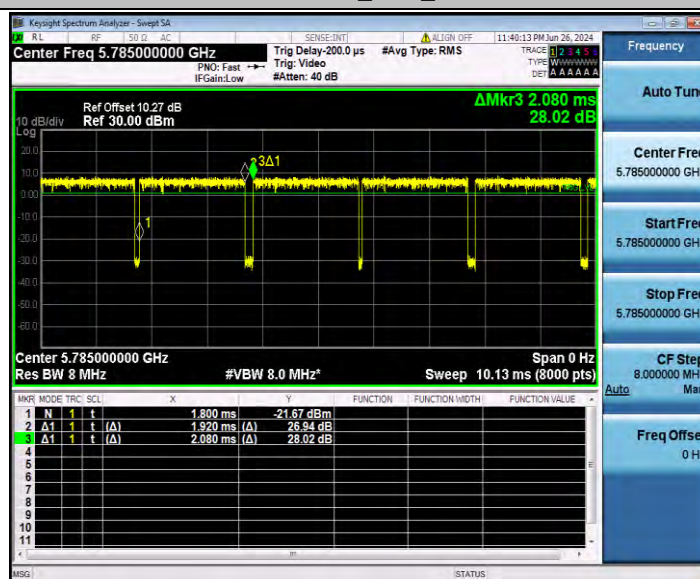


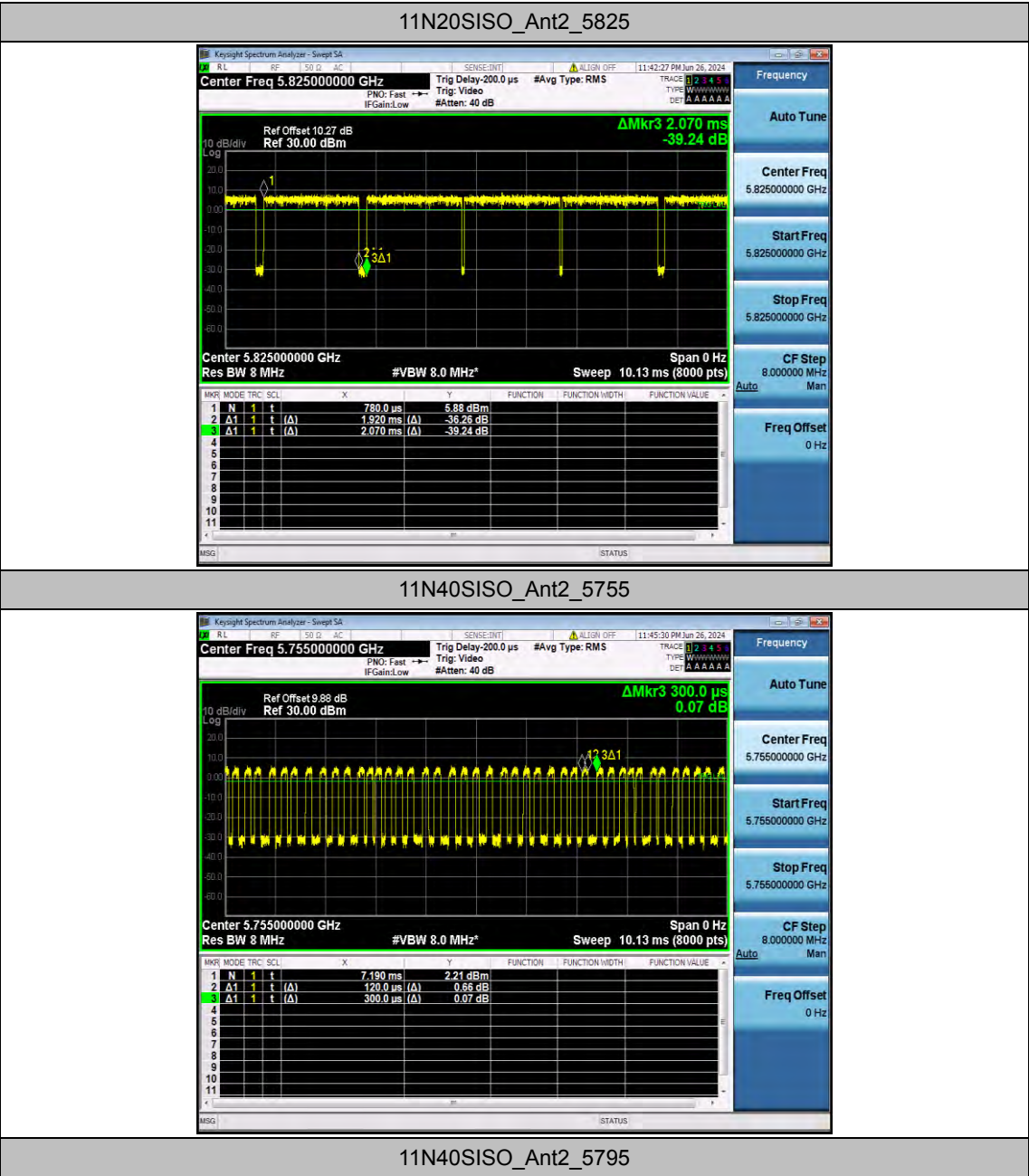


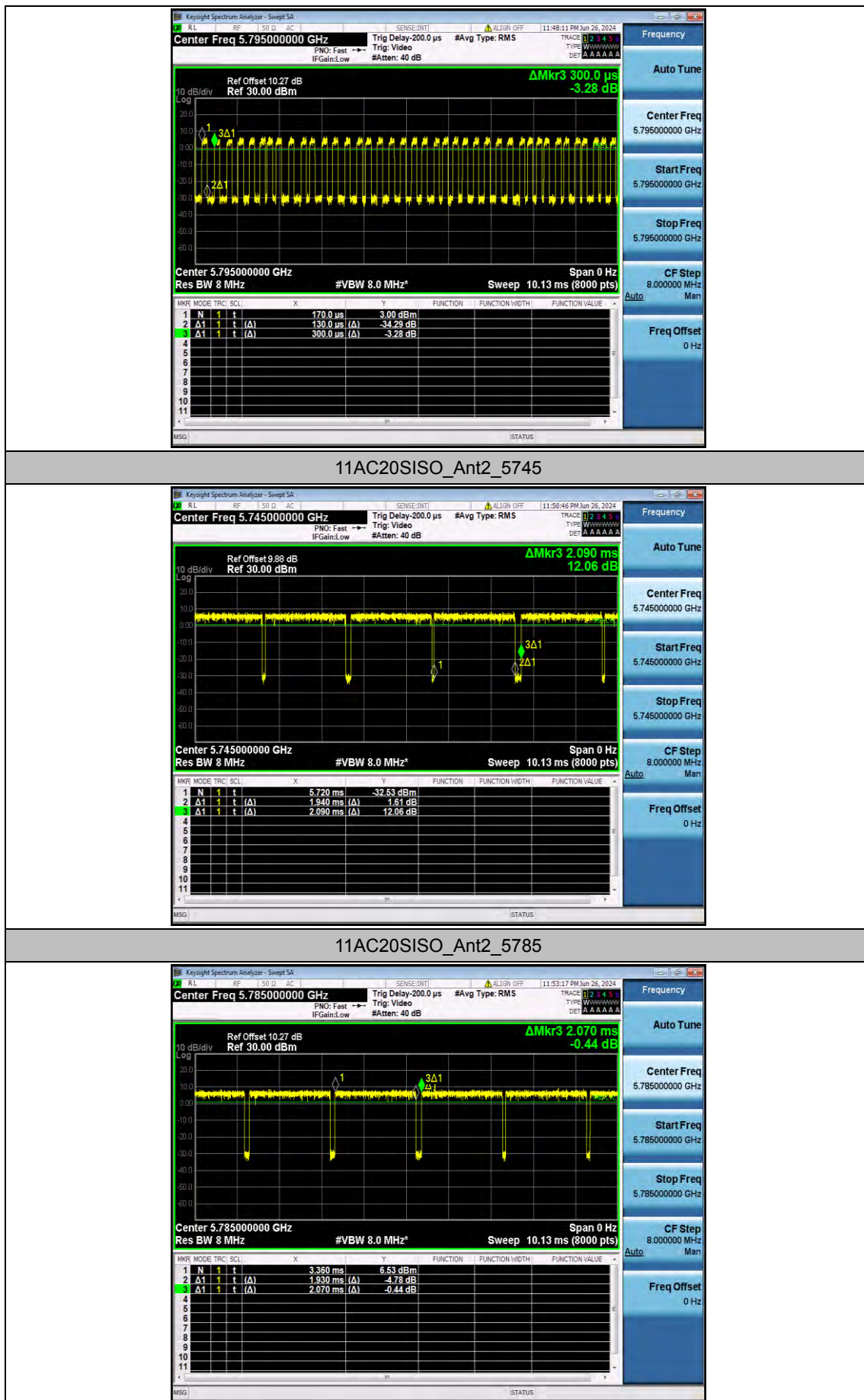
11N20SISO_Ant2_5745

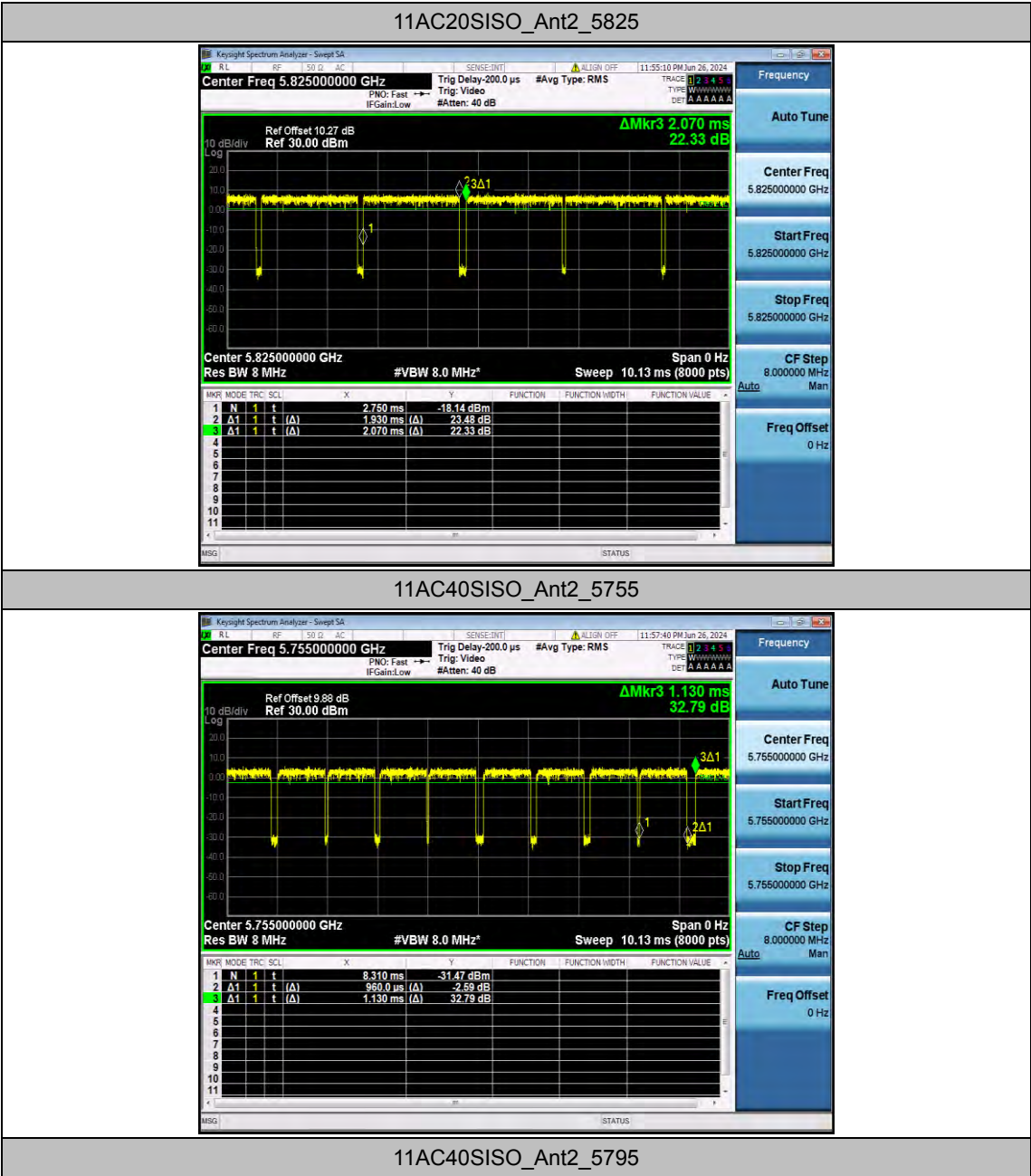


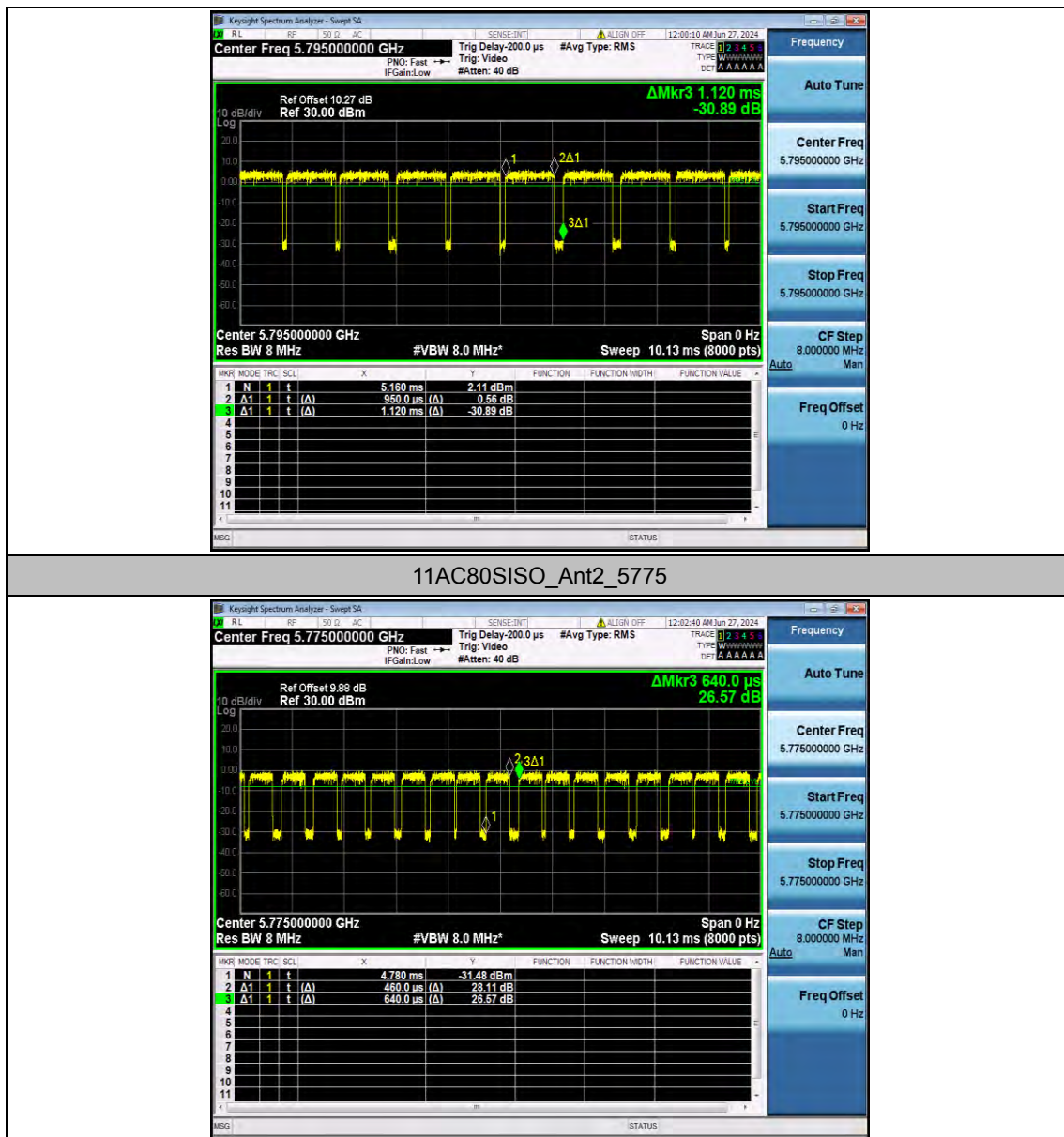
11N20SISO_Ant2_5785











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	Ant2	5745	11.19	92.38	0.34	11.53	≤30.00	PASS
		5785	11.88	94.09	0.26	12.14	≤30.00	PASS
		5825	11.52	94.06	0.27	11.79	≤30.00	PASS
11N20SISO	Ant2	5745	9.39	91.87	0.37	9.76	≤30.00	PASS
		5785	9.70	92.31	0.35	10.05	≤30.00	PASS
		5825	9.24	92.75	0.33	9.57	≤30.00	PASS
11N40SISO	Ant2	5755	7.87	40.00	3.98	11.85	≤30.00	PASS
		5795	8.37	43.33	3.63	12.00	≤30.00	PASS
11AC20SISO	Ant2	5745	9.35	92.82	0.32	9.67	≤30.00	PASS
		5785	9.81	93.24	0.30	10.11	≤30.00	PASS
		5825	9.33	93.24	0.30	9.63	≤30.00	PASS
11AC40SISO	Ant2	5755	9.20	84.96	0.71	9.91	≤30.00	PASS
		5795	9.66	84.82	0.72	10.38	≤30.00	PASS
11AC80SISO	Ant2	5775	7.54	71.88	1.43	8.97	≤30.00	PASS

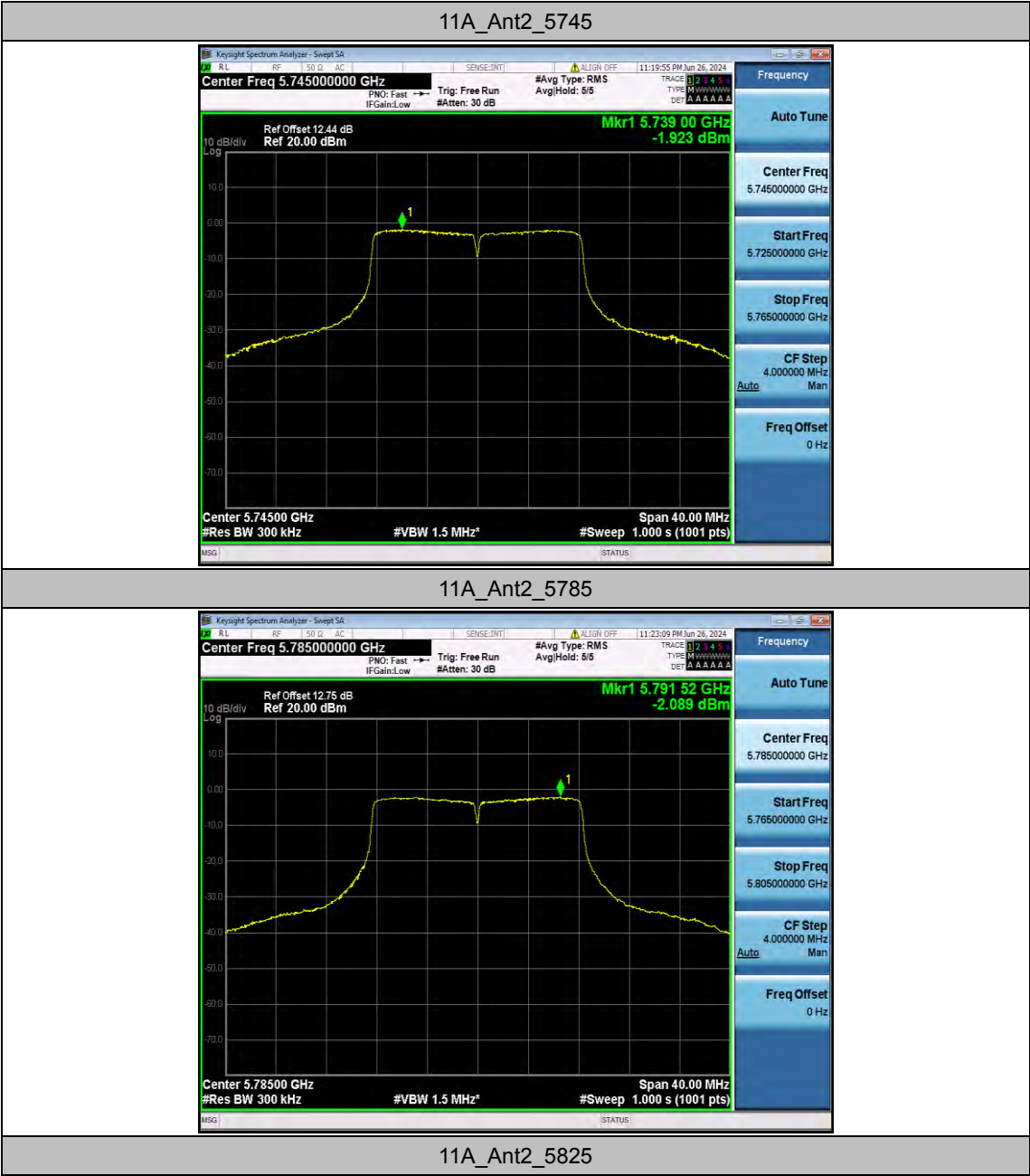
Appendix G.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5745	-1.92	≤30.00	PASS
		5785	-2.09	≤30.00	PASS
		5825	-2.20	≤30.00	PASS
11N20SISO	Ant2	5745	-4.66	≤30.00	PASS
		5785	-4.34	≤30.00	PASS
		5825	-4.70	≤30.00	PASS
11N40SISO	Ant2	5755	-3.49	≤30.00	PASS
		5795	-3.57	≤30.00	PASS
11AC20SISO	Ant2	5745	-4.73	≤30.00	PASS
		5785	-4.34	≤30.00	PASS
		5825	-4.74	≤30.00	PASS
11AC40SISO	Ant2	5755	-7.07	≤30.00	PASS
		5795	-6.87	≤30.00	PASS
11AC80SISO	Ant2	5775	-10.02	≤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





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



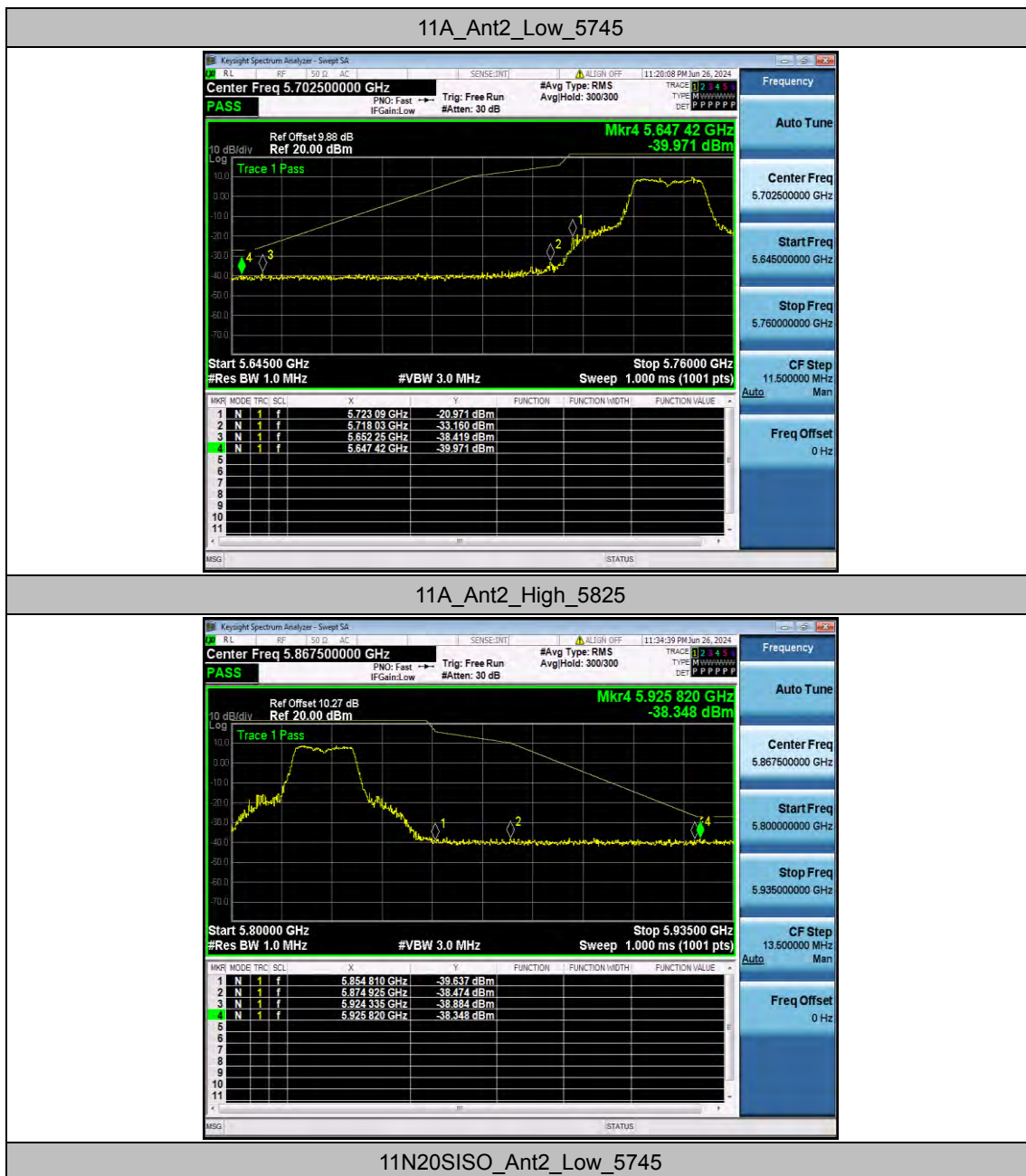
Appendix G.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	Low	5745	5650~5700	-38.42	≤-25.34	PASS
				5700~5720	-33.16	≤15.05	PASS
				5720~5725	-20.97	≤22.63	PASS
				5760~5650	-39.97	≤-27	PASS
		High	5825	5850~5855	-39.64	≤16.03	PASS
				5855~5875	-38.47	≤10.02	PASS
				5875~5925	-38.88	≤-26.51	PASS
				5925~5935	-38.35	≤-27	PASS
11N20SI SO	Ant2	Low	5745	5650~5700	-39.86	≤-26.36	PASS
				5700~5720	-39.61	≤10.35	PASS
				5720~5725	-22.75	≤26.83	PASS
				5760~5650	-39.67	≤-27	PASS
		High	5825	5850~5855	-40.04	≤15.73	PASS
				5855~5875	-38.61	≤10.36	PASS
				5875~5925	-39.95	≤-26.91	PASS
				5925~5935	-38.52	≤-27	PASS
11N40SI SO	Ant2	Low	5755	5650~5700	-40.5	≤-26.70	PASS
				5700~5720	-20.49	≤15.09	PASS
				5720~5725	-21.59	≤16.35	PASS
				5780~5650	-40.18	≤-27	PASS
		High	5795	5850~5855	-39.56	≤15.66	PASS
				5855~5875	-38.55	≤10.34	PASS
				5875~5925	-39.19	≤-26.83	PASS
				5925~5935	-38.87	≤-27	PASS
11AC20S ISO	Ant2	Low	5745	5650~5700	-39.77	≤-26.96	PASS
				5700~5720	-39.14	≤10.60	PASS
				5720~5725	-26.84	≤22.63	PASS
				5760~5650	-39.8	≤-27	PASS
		High	5825	5850~5855	-39.44	≤16.03	PASS
				5855~5875	-38.59	≤10.63	PASS
				5875~5925	-39.29	≤-26.61	PASS
				5925~5935	-38.38	≤-27	PASS
11AC40S ISO	Ant2	Low	5755	5650~5700	-40.45	≤-26.90	PASS
				5700~5720	-24.22	≤15.28	PASS
				5720~5725	-25.32	≤16.04	PASS
				5780~5650	-39.56	≤-27	PASS

		High	5795	5850~5855	-39.71	≤ 16.03	PASS
				5855~5875	-37.94	≤ 10.76	PASS
				5875~5925	-38.06	≤ -25.24	PASS
				5925~5935	-38.51	≤ -27	PASS
11AC80S ISO	Ant2	Low	5775	5650~5700	-38.54	≤ -26.91	PASS
				5700~5720	-33.56	≤ 11.14	PASS
				5720~5725	-31.37	≤ 16.71	PASS
				5800~5650	-39.41	≤ -27	PASS
		High	5775	5850~5855	-37.32	≤ 15.84	PASS
				5855~5875	-32.84	≤ 12.37	PASS
				5875~5925	-38.57	≤ -26.05	PASS
				5925~5935	-38.33	≤ -27	PASS

Test Graphs B4





11N20SISO_Ant2_High_5825



11N40SISO_Ant2_Low_5755



11N40SISO_Ant2_High_5795



11AC20SISO_Ant2_Low_5745



11AC20SISO_Ant2_High_5825



11AC40SISO_Ant2_Low_5755



11AC40SISO_Ant2_High_5795



11AC80SISO_Ant2_Low_5775



11AC80SISO_Ant2_High_5775



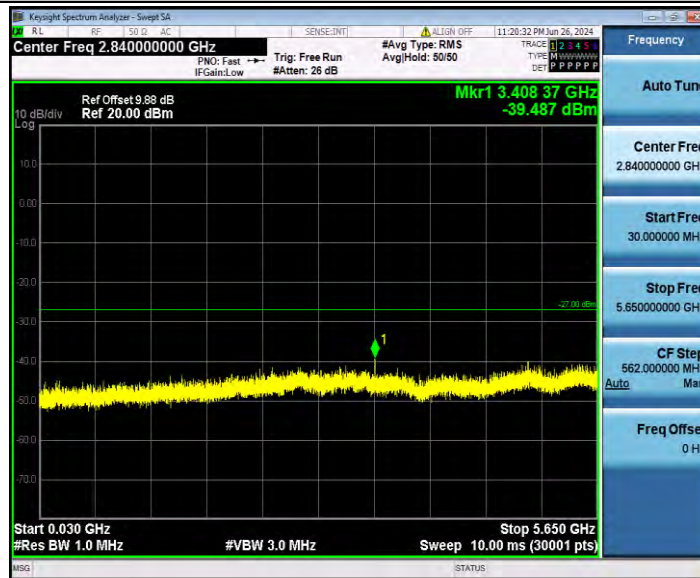
Appendix G.7: Conducted Spurious Emission

Test Result

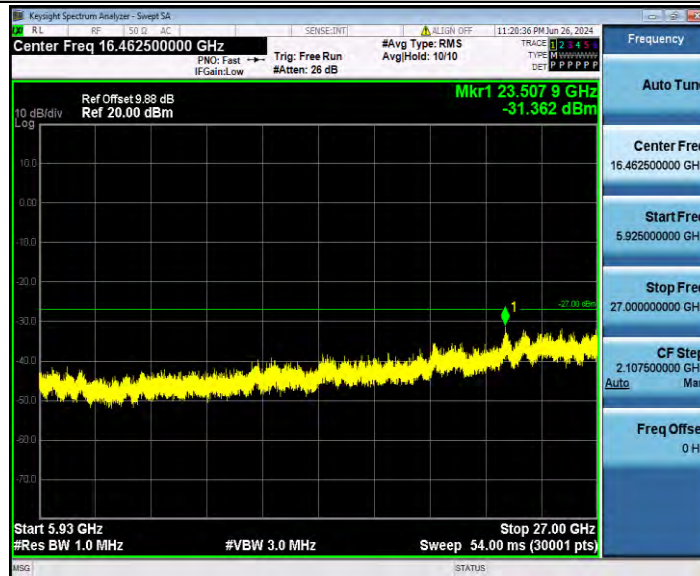
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5745	30~5650	3408.37	-39.49	≤-27	PASS
			5925~27000	23507.87	-31.36	≤-27	PASS
		5785	30~5650	3203.8	-39.88	≤-27	PASS
			5925~27000	25978.57	-31.23	≤-27	PASS
		5825	30~5650	3408.37	-39.49	≤-27	PASS
			5925~27000	24220.91	-31.69	≤-27	PASS
11N20SISO	Ant2	5745	30~5650	824.86	-31.87	≤-27	PASS
			5925~27000	25028.79	-32.3	≤-27	PASS
		5785	30~5650	5518.49	-39.24	≤-27	PASS
			5925~27000	24189.3	-31.62	≤-27	PASS
		5825	30~5650	5461.36	-40.01	≤-27	PASS
			5925~27000	25634.34	-31.38	≤-27	PASS
11N40SISO	Ant2	5755	30~5650	5642.32	-39.7	≤-27	PASS
			5925~27000	26746.4	-31.96	≤-27	PASS
		5795	30~5650	830.29	-37.23	≤-27	PASS
			5925~27000	24070.58	-32.2	≤-27	PASS
11AC20SISO	Ant2	5745	30~5650	830.66	-34	≤-27	PASS
			5925~27000	26102.21	-32.14	≤-27	PASS
		5785	30~5650	5471.85	-40.69	≤-27	PASS
			5925~27000	26513.17	-31.72	≤-27	PASS
		5825	30~5650	5449.74	-39.98	≤-27	PASS
			5925~27000	26835.62	-31.48	≤-27	PASS
11AC40SISO	Ant2	5755	30~5650	5562.14	-40.21	≤-27	PASS
			5925~27000	24232.15	-31.93	≤-27	PASS
		5795	30~5650	5453.49	-39.6	≤-27	PASS
			5925~27000	26554.62	-31.7	≤-27	PASS
11AC80SISO	Ant2	5775	30~5650	5519.62	-39.98	≤-27	PASS
			5925~27000	25118.71	-32.19	≤-27	PASS

Test Graphs

11A_Ant2_5745_30~5650



11A_Ant2_5745_5925~27000



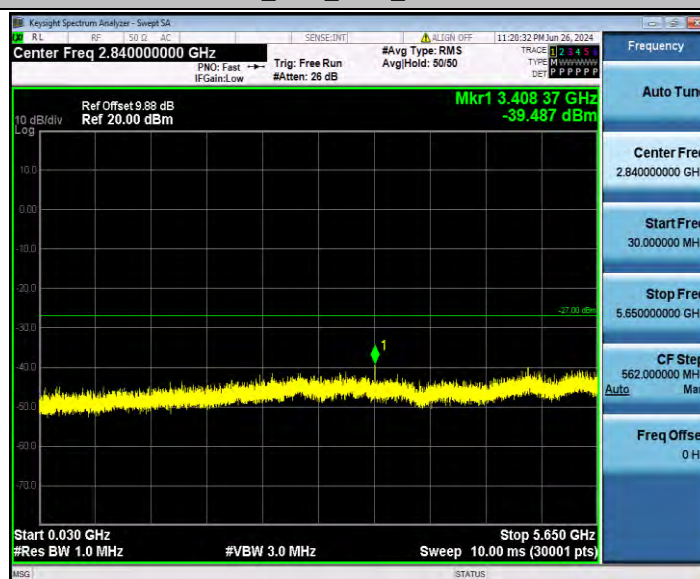
11A_Ant2_5785_30~5650



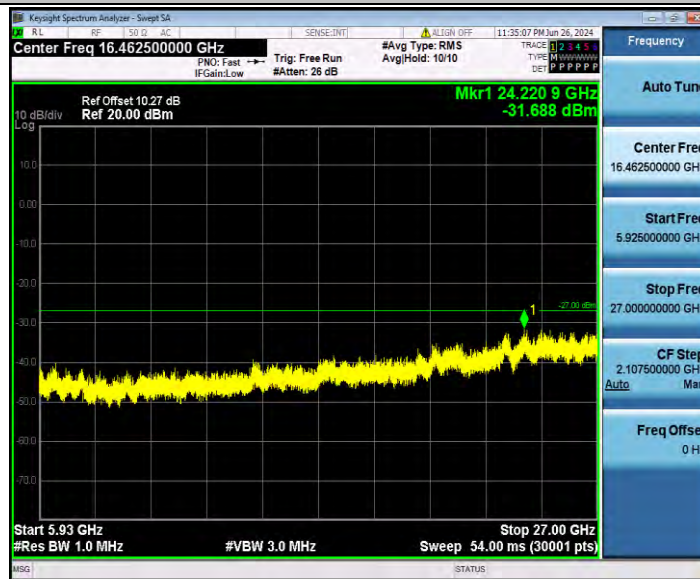
11A_Ant2_5785_5925~27000



11A_Ant2_5825_30~5650



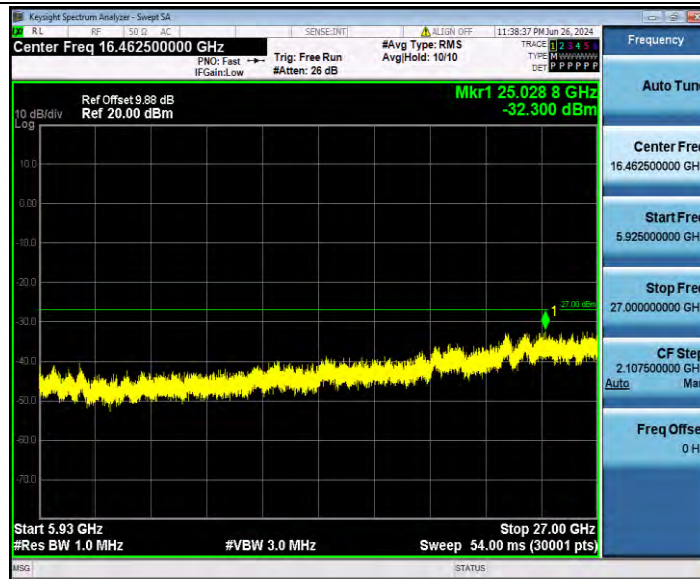
11A_Ant2_5825_5925~27000



11N20SISO_Ant2_5745_30~5650



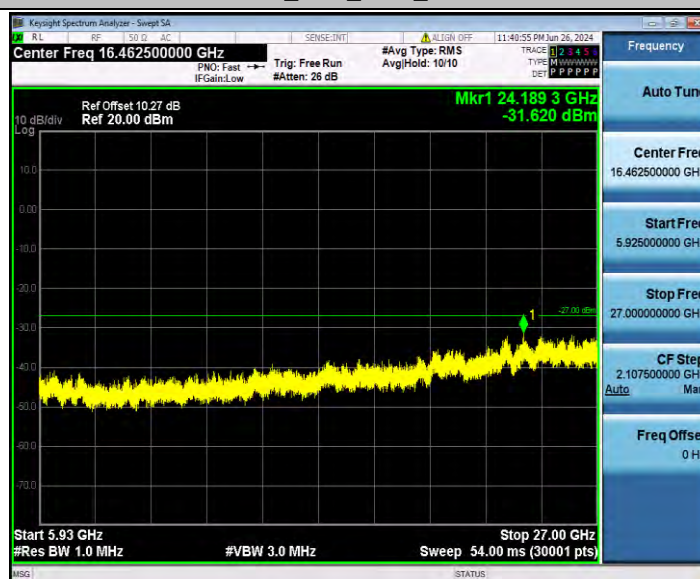
11N20SISO_Ant2_5745_5925~27000



11N20SISO_Ant2_5785_30~5650



11N20SISO_Ant2_5785_5925~27000



11N20SISO_Ant2_5825_30~5650



11N20SISO_Ant2_5825_5925~27000



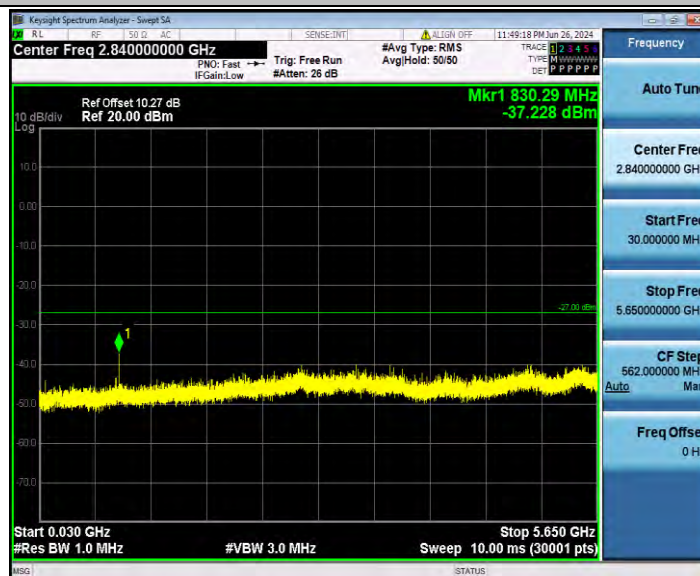
11N40SISO_Ant2_5755_30~5650



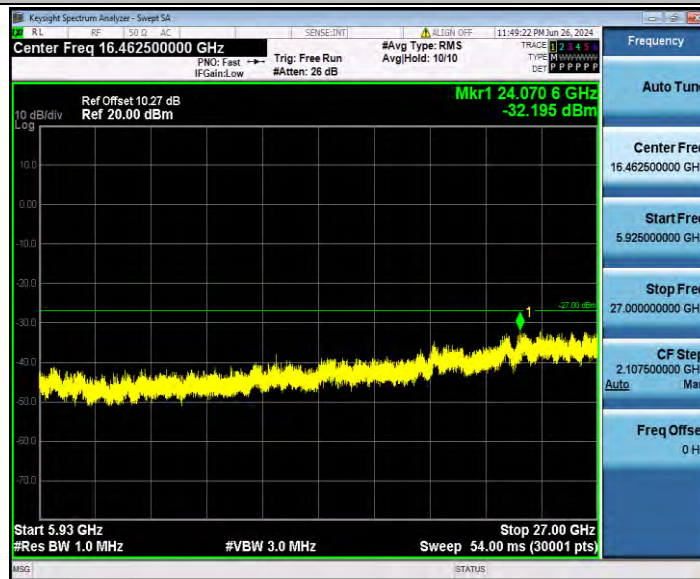
11N40SISO_Ant2_5755_5925~27000



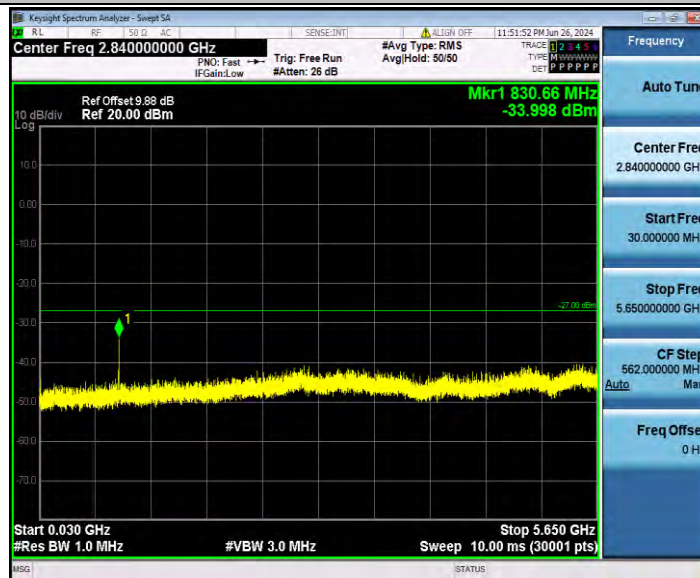
11N40SISO_Ant2_5795_30~5650



11N40SISO_Ant2_5795_5925~27000



11AC20SISO_Ant2_5745_30~5650



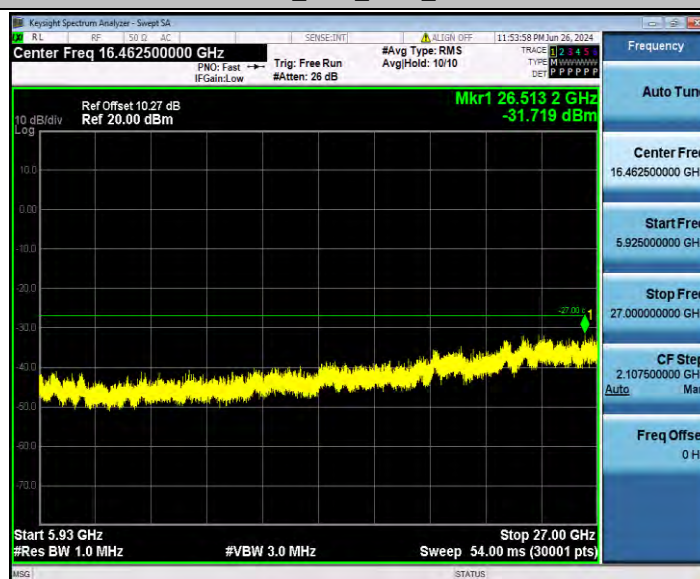
11AC20SISO_Ant2_5745_5925~27000



11AC20SISO_Ant2_5785_30~5650



11AC20SISO_Ant2_5785_5925~27000



11AC20SISO_Ant2_5825_30~5650



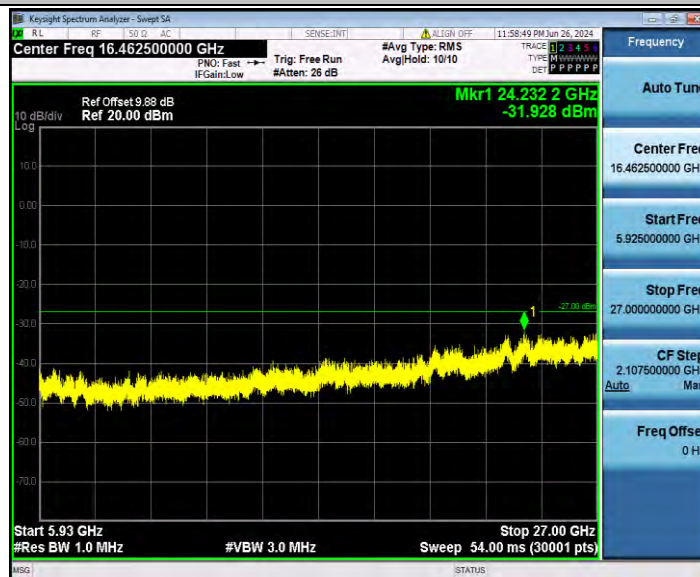
11AC20SISO_Ant2_5825_5925~27000



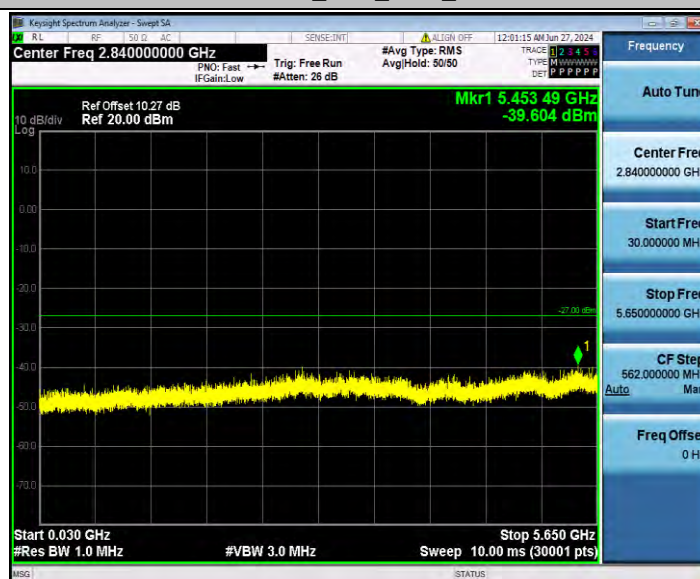
11AC40SISO_Ant2_5755_30~5650



11AC40SISO_Ant2_5755_5925~27000



11AC40SISO_Ant2_5795_30~5650



11AC40SISO_Ant2_5795_5925~27000



11AC80SISO_Ant2_5775_30~5650



11AC80SISO_Ant2_5775_5925~27000



Appendix G.8: Emissions in Restricted Bands

Test Result

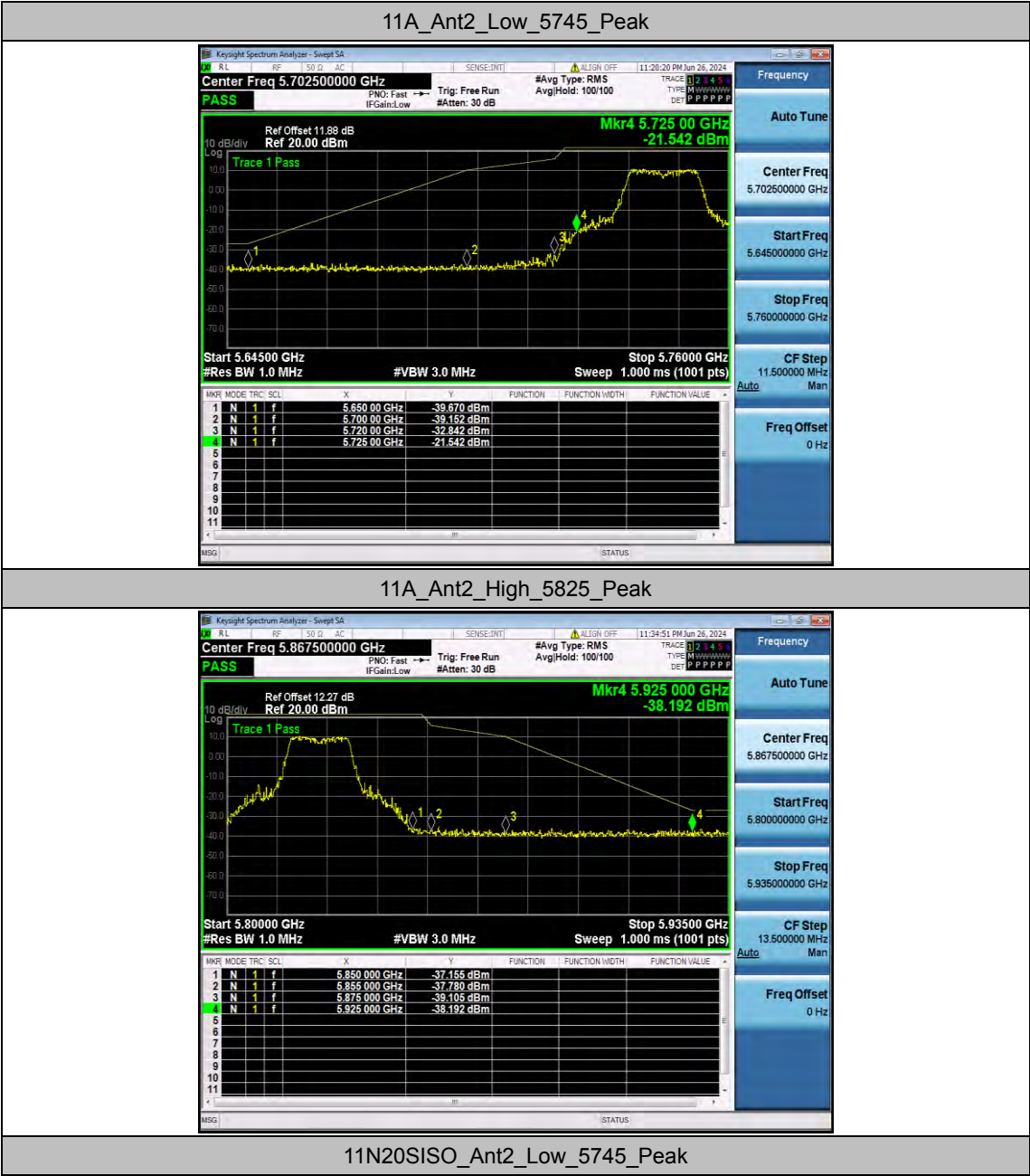
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	Low	5745	Peak	5650.000	-39.67	≤-27.00	PASS
				Peak	5700.000	-39.15	≤10.00	PASS
				Peak	5720.000	-32.84	≤15.60	PASS
				Peak	5725.000	-21.54	≤27.00	PASS
		High	5825	Peak	5850.000	-37.155	≤27.00	PASS
				Peak	5855.000	-37.78	≤15.60	PASS
				Peak	5875.000	-39.11	≤10.00	PASS
				Peak	5925.000	-38.19	≤-27.00	PASS
11N20SISO	Ant2	Low	5745	Peak	5650.000	-39.625	≤-27.00	PASS
				Peak	5700.000	-39.33	≤10.00	PASS
				Peak	5720.000	-31.11	≤15.60	PASS
				Peak	5725.000	-27.59	≤27.00	PASS
		High	5825	Peak	5850.000	-36.364	≤27.00	PASS
				Peak	5855.000	-39.51	≤15.60	PASS
				Peak	5875.000	-40	≤10.00	PASS
				Peak	5925.000	-38.61	≤-27.00	PASS
11N40SISO	Ant2	Low	5755	Peak	5650.000	-38.846	≤-27.00	PASS
				Peak	5700.000	-39.13	≤10.00	PASS
				Peak	5720.000	-22.19	≤15.60	PASS
				Peak	5725.000	-24.04	≤27.00	PASS
		High	5795	Peak	5850.000	-38.471	≤27.00	PASS
				Peak	5855.000	-39.79	≤15.60	PASS
				Peak	5875.000	-38.26	≤10.00	PASS
				Peak	5925.000	-39.39	≤-27.00	PASS
11AC20SISO	Ant2	Low	5745	Peak	5650.000	-39.173	≤-27.00	PASS
				Peak	5700.000	-37.62	≤10.00	PASS
				Peak	5720.000	-36.49	≤15.60	PASS
				Peak	5725.000	-25.88	≤27.00	PASS
		High	5825	Peak	5850.000	-37.863	≤27.00	PASS
				Peak	5855.000	-38.15	≤15.60	PASS
				Peak	5875.000	-38.71	≤10.00	PASS
				Peak	5925.000	-37.25	≤-27.00	PASS

11AC40SISO	Ant2	Low	5755	Peak	5650.000	-39.627	≤ -27.00	PASS
				Peak	5700.000	-38.62	≤ 10.00	PASS
				Peak	5720.000	-26.54	≤ 15.60	PASS
				Peak	5725.000	-25.52	≤ 27.00	PASS
		High	5795	Peak	5850.000	-36.563	≤ 27.00	PASS
				Peak	5855.000	-39.04	≤ 15.60	PASS
				Peak	5875.000	-37.14	≤ 10.00	PASS
				Peak	5925.000	-38.77	≤ -27.00	PASS
11AC80SISO	Ant2	Low	5775	Peak	5650.000	-40.565	≤ -27.00	PASS
				Peak	5700.000	-35.05	≤ 10.00	PASS
				Peak	5720.000	-30.11	≤ 15.60	PASS
				Peak	5725.000	-35.48	≤ 27.00	PASS
		High	5775	Peak	5850.000	-34.392	≤ 27.00	PASS
				Peak	5855.000	-37.03	≤ 15.60	PASS
				Peak	5875.000	-39.38	≤ 10.00	PASS
				Peak	5925.000	-39.29	≤ -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_Ant2_High_5825_Peak



11N40SISO_Ant2_Low_5755_Peak



11N40SISO_Ant2_High_5795_Peak



11AC20SISO_Ant2_Low_5745_Peak



11AC20SISO_Ant2_High_5825_Peak



11AC40SISO_Ant2_Low_5755_Peak



11AC40SISO_Ant2_High_5795_Peak



11AC80SISO_Ant2_Low_5775_Peak



11AC80SISO_Ant2_High_5775_Peak

