

Case No. : <u>CTA24050902604</u>	
Ambient Condition: <u>22</u> °C, <u>56</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.4.23</u>	Test Engineer: <u>Evan ouyang</u>

Appendix G.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11N20SISO	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
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	15.120	5737.440	5752.560	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.120	5817.440	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

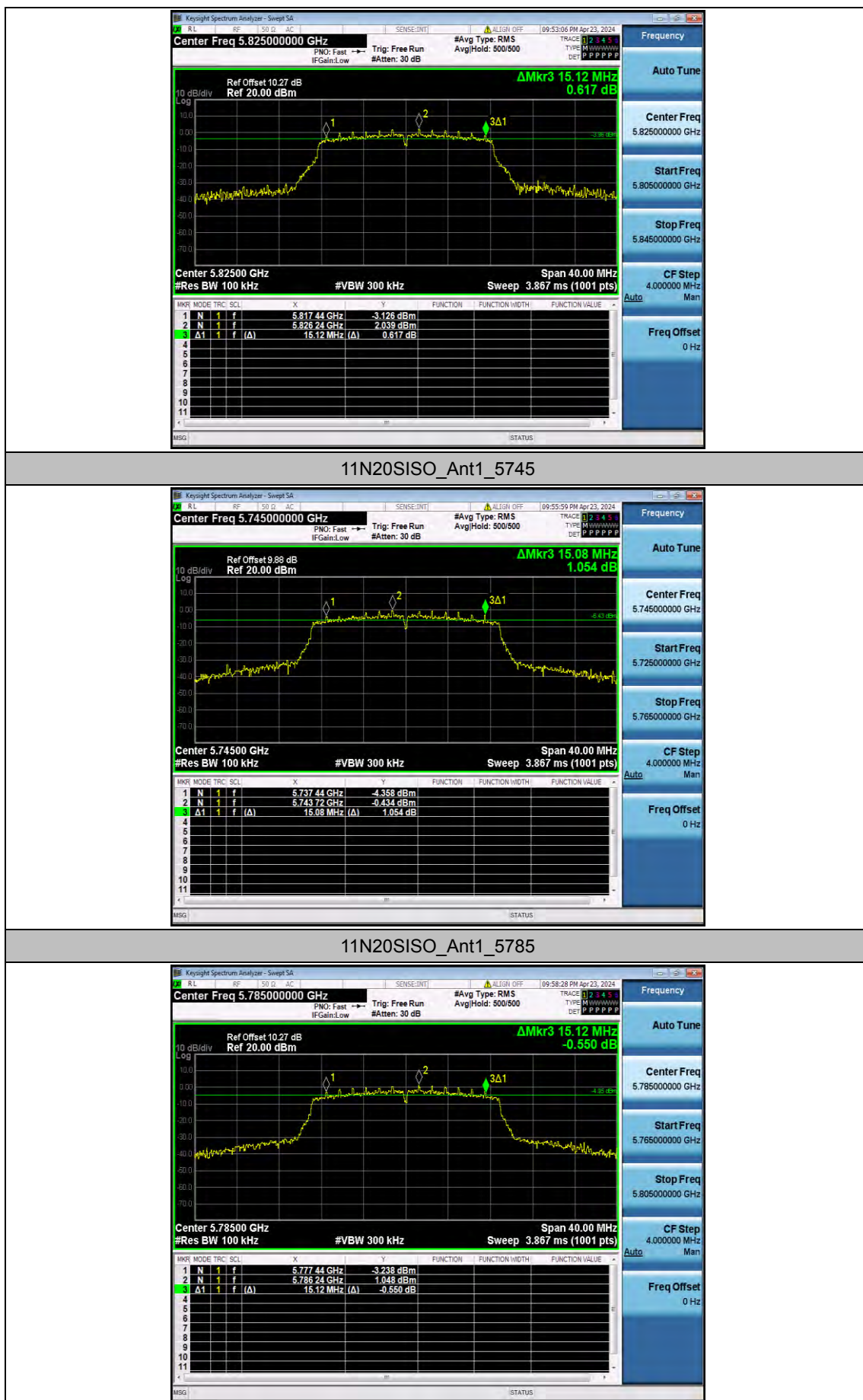
11A_Ant1_5745



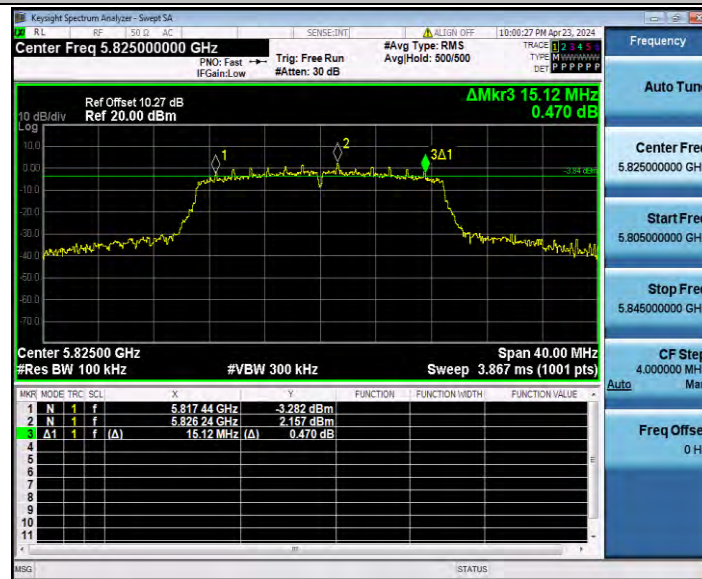
11A_Ant1_5785



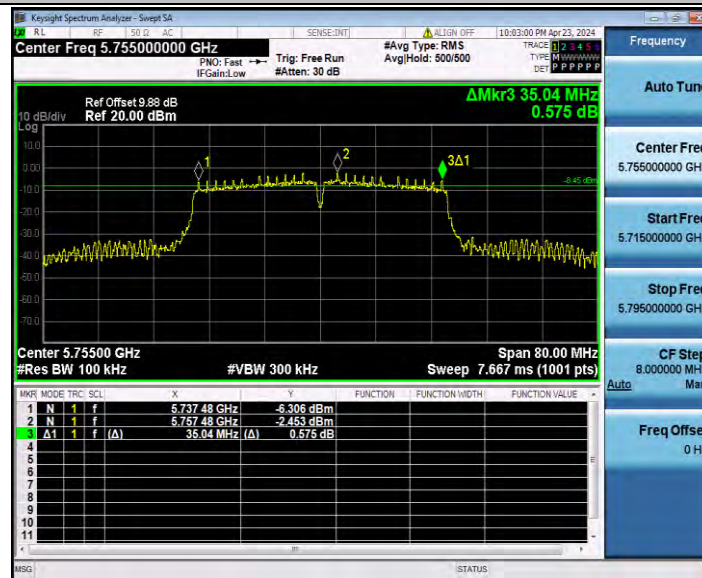
11A_Ant1_5825



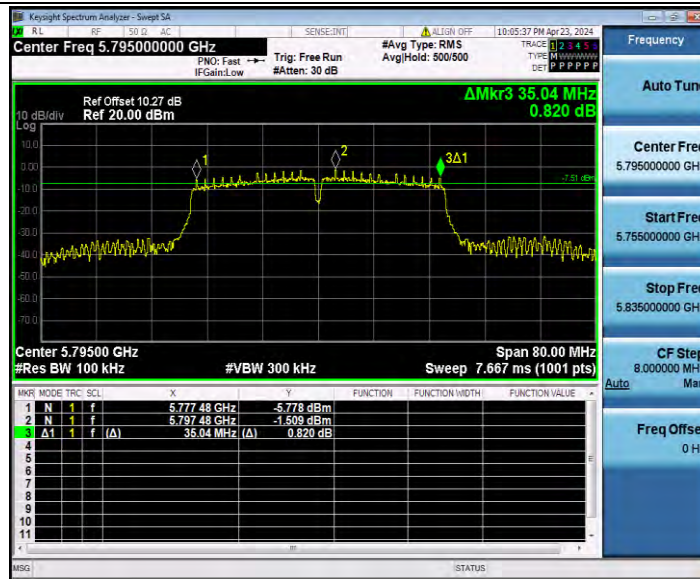
11N20SISO_Ant1_5825



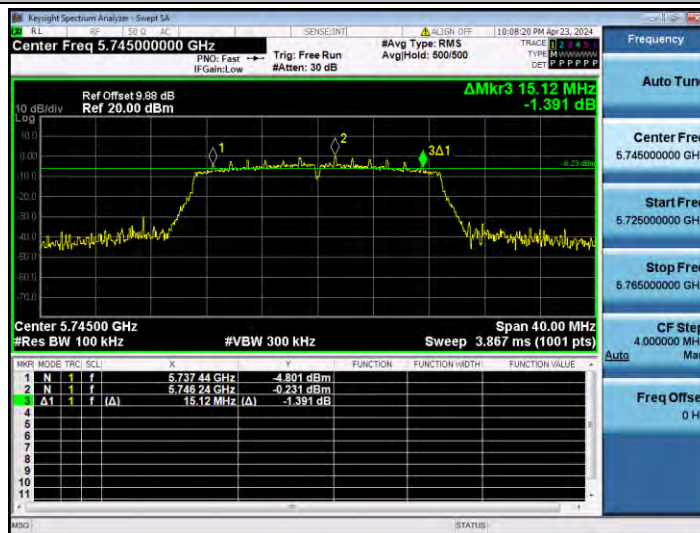
11N40SISO_Ant1_5755



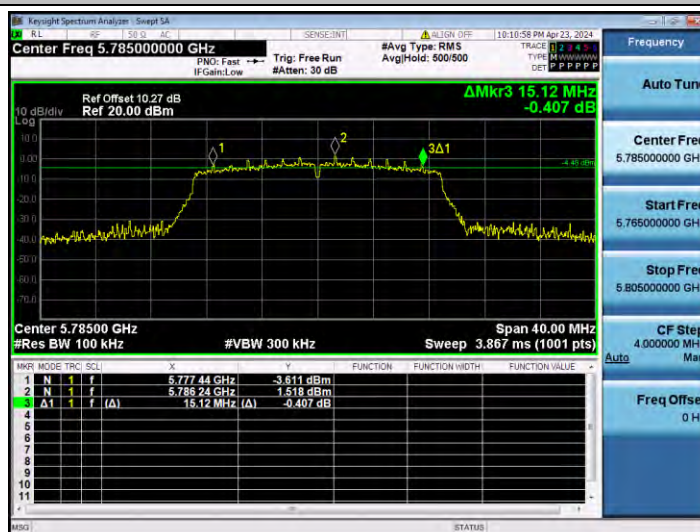
11N40SISO_Ant1_5795



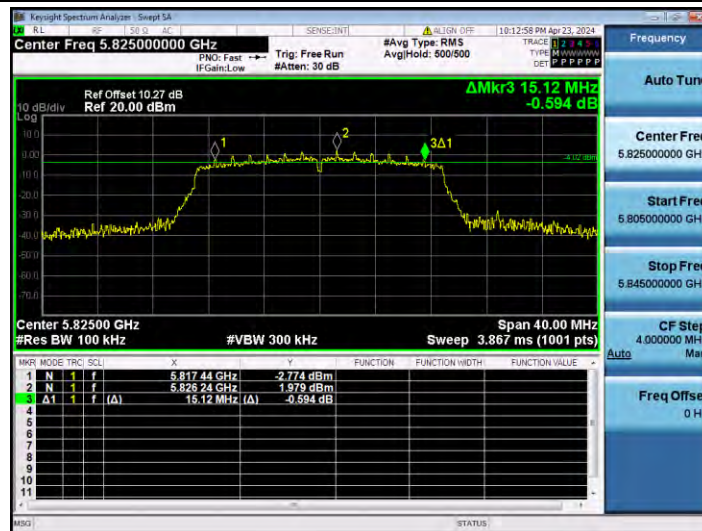
11AC20SISO_Ant1_5745



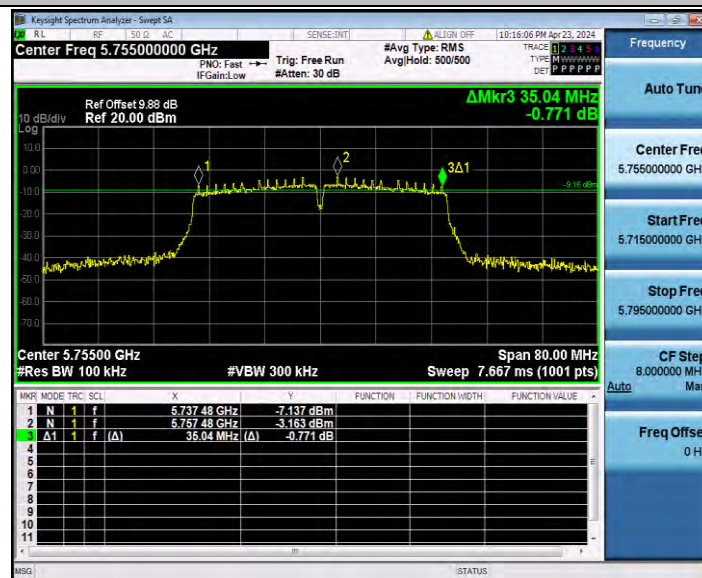
11AC20SISO_Ant1_5785



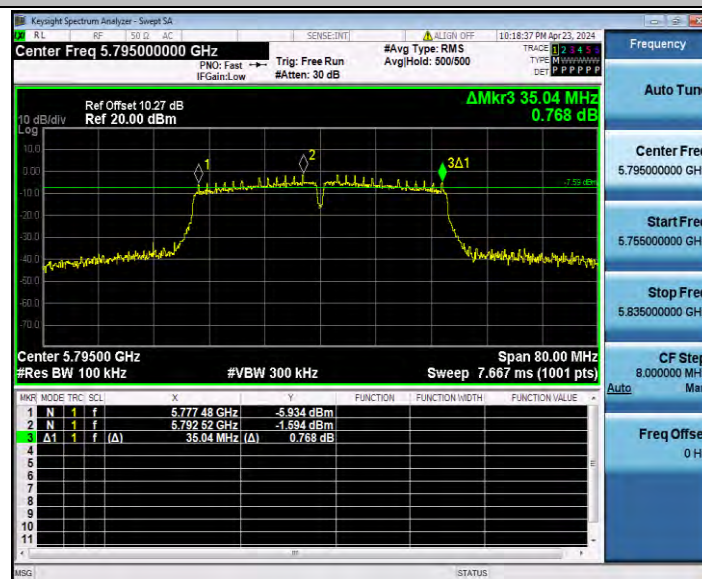
11AC20SISO_Ant1_5825



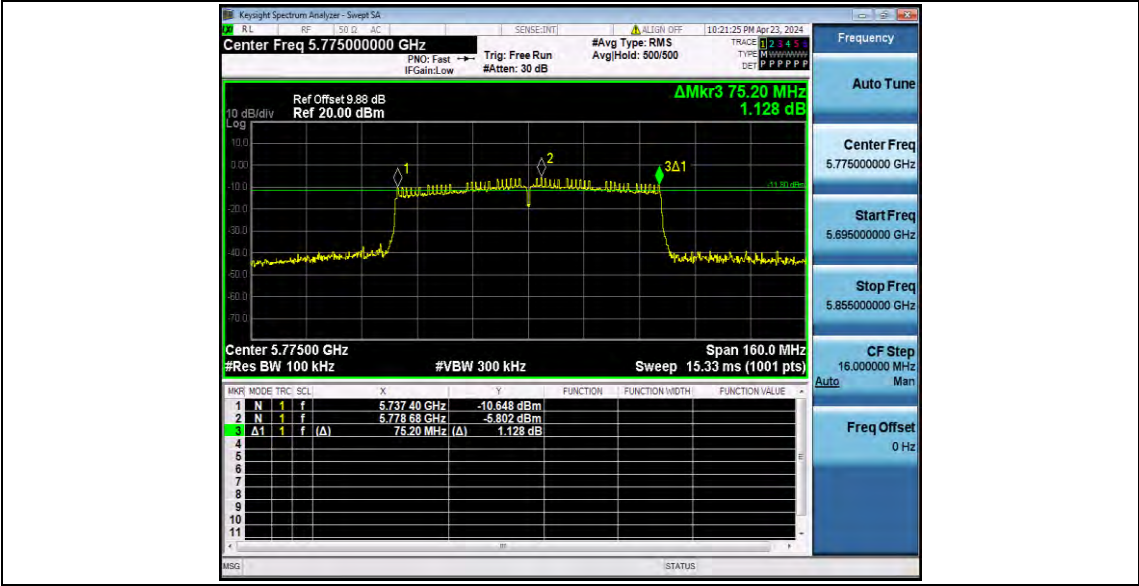
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



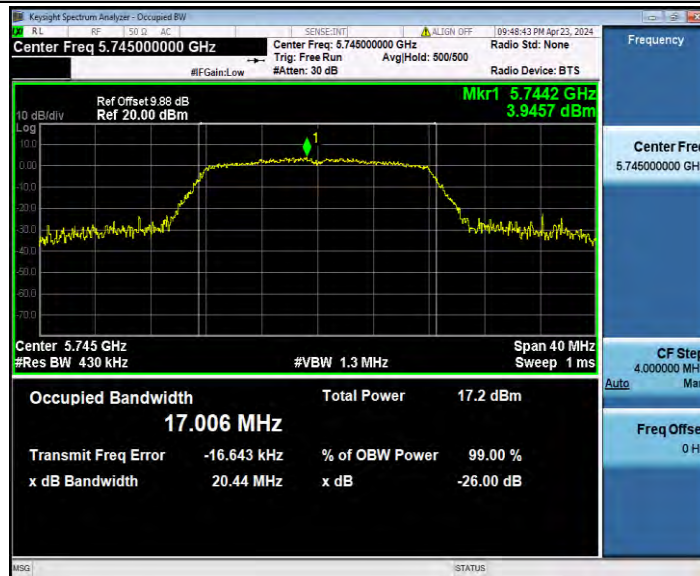
Appendix G.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.006	5736.4804	5753.4864	---	---
		5785	17.025	5776.5194	5793.5444	---	---
		5825	16.959	5816.5804	5833.5394	---	---
11N20SISO	Ant1	5745	17.989	5736.0081	5753.9971	---	---
		5785	18.008	5776.0408	5794.0488	---	---
		5825	18.036	5816.0624	5834.0984	---	---
11N40SISO	Ant1	5755	36.684	5736.7479	5773.4319	---	---
		5795	36.635	5776.8138	5813.4488	---	---
11AC20SISO	Ant1	5745	17.889	5736.0686	5753.9576	---	---
		5785	17.855	5776.0943	5793.9493	---	---
		5825	17.864	5816.1127	5833.9767	---	---
11AC40SISO	Ant1	5755	36.325	5736.8797	5773.2047	---	---
		5795	36.316	5776.9381	5813.2541	---	---
11AC80SISO	Ant1	5775	75.407	5737.4594	5812.8664	---	---

Test Graphs

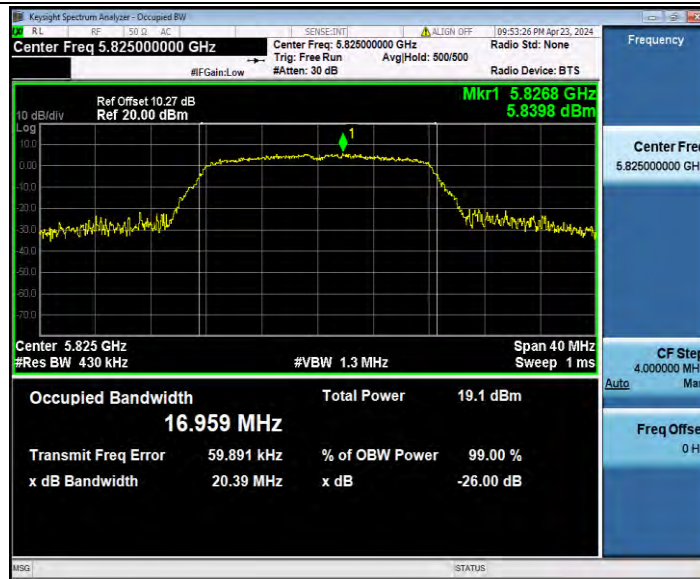
11A_Ant1_5745



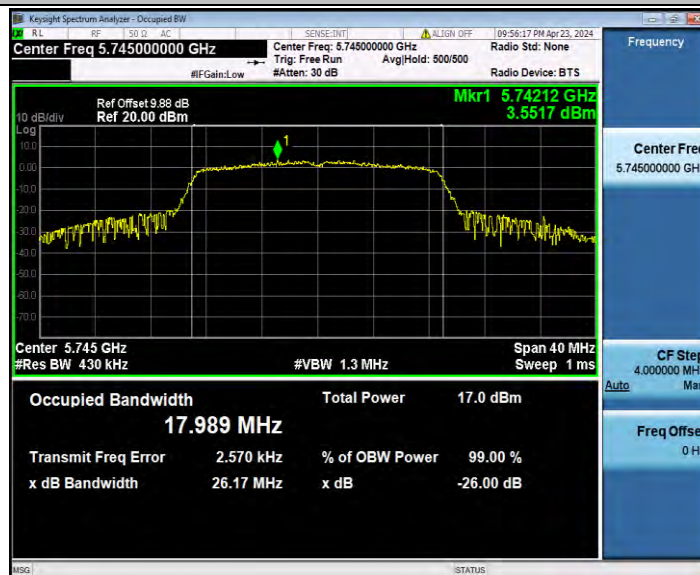
11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



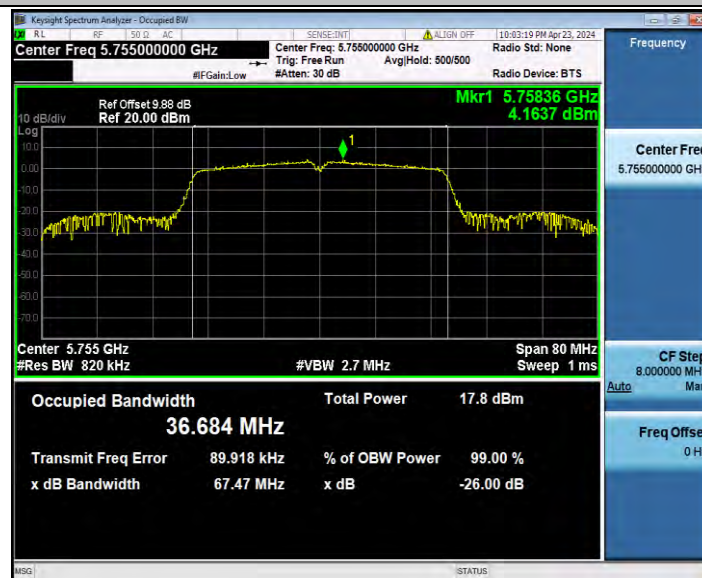
11N20SISO_Ant1_5785



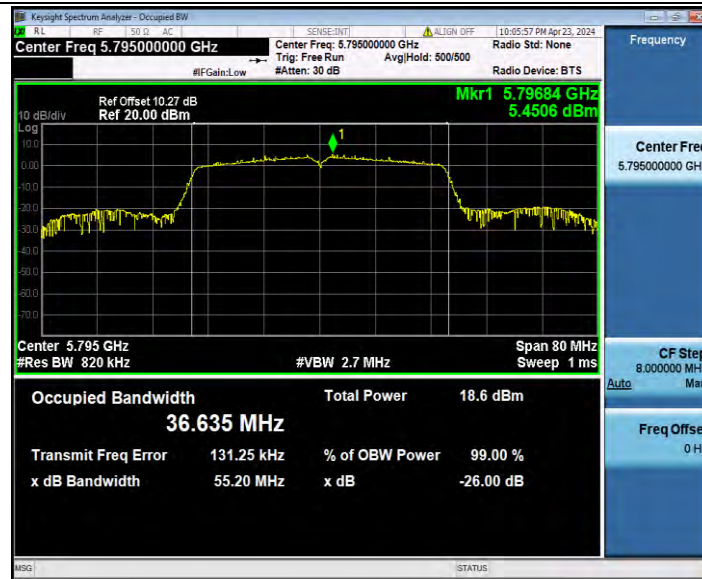
11N20SISO_Ant1_5825



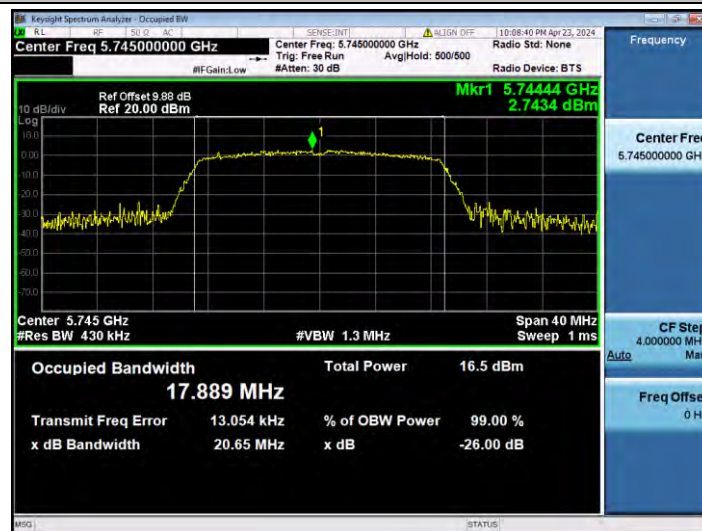
11N40SISO_Ant1_5755



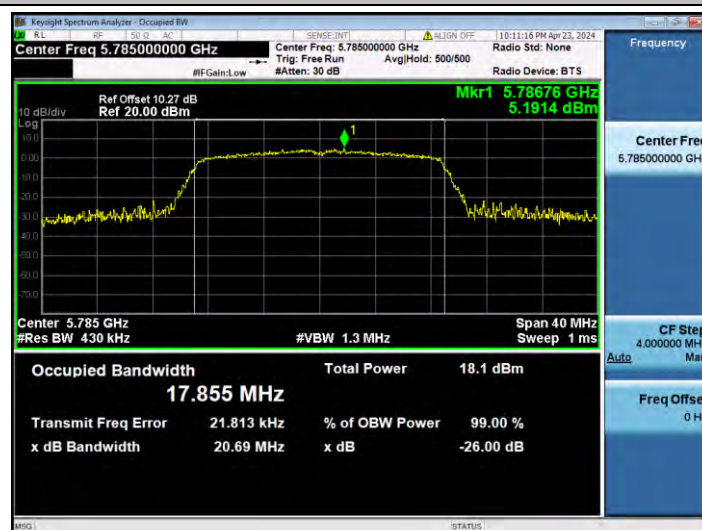
11N40SISO_Ant1_5795



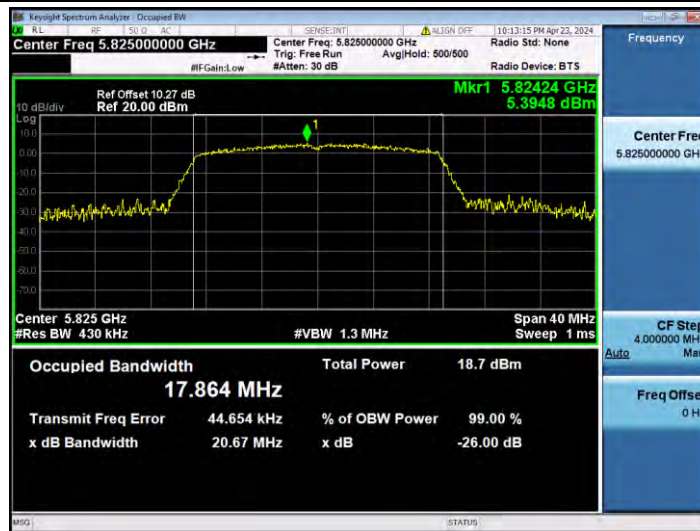
11AC20SISO_Ant1_5745



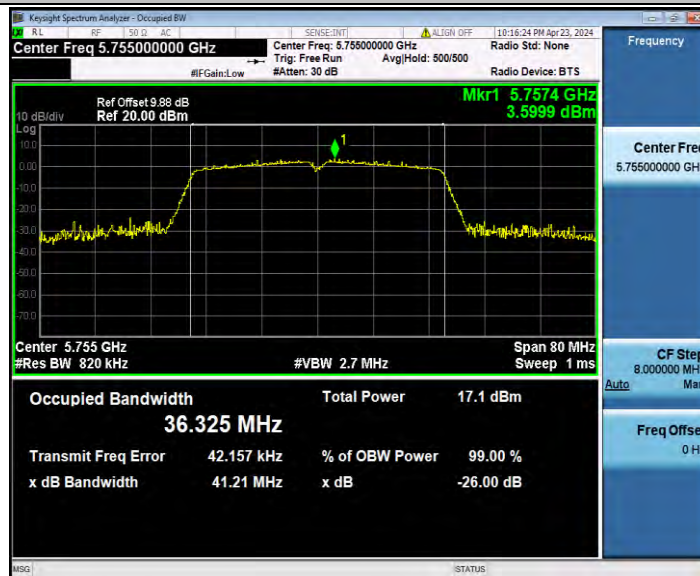
11AC20SISO_Ant1_5785



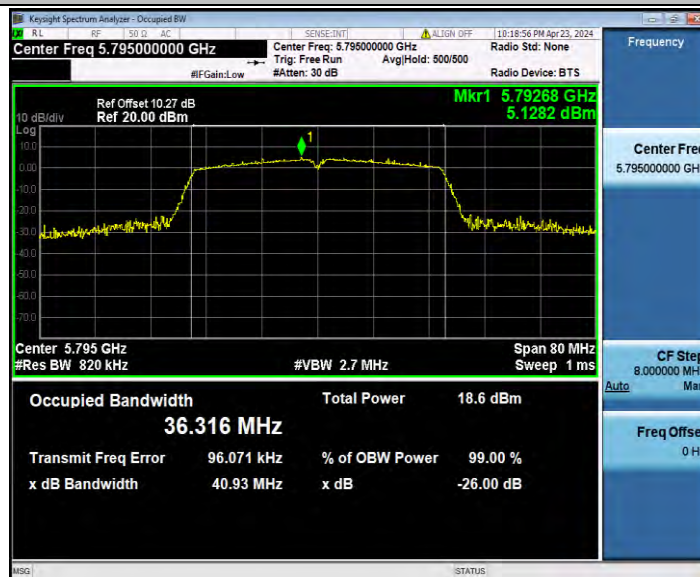
11AC20SISO_Ant1_5825



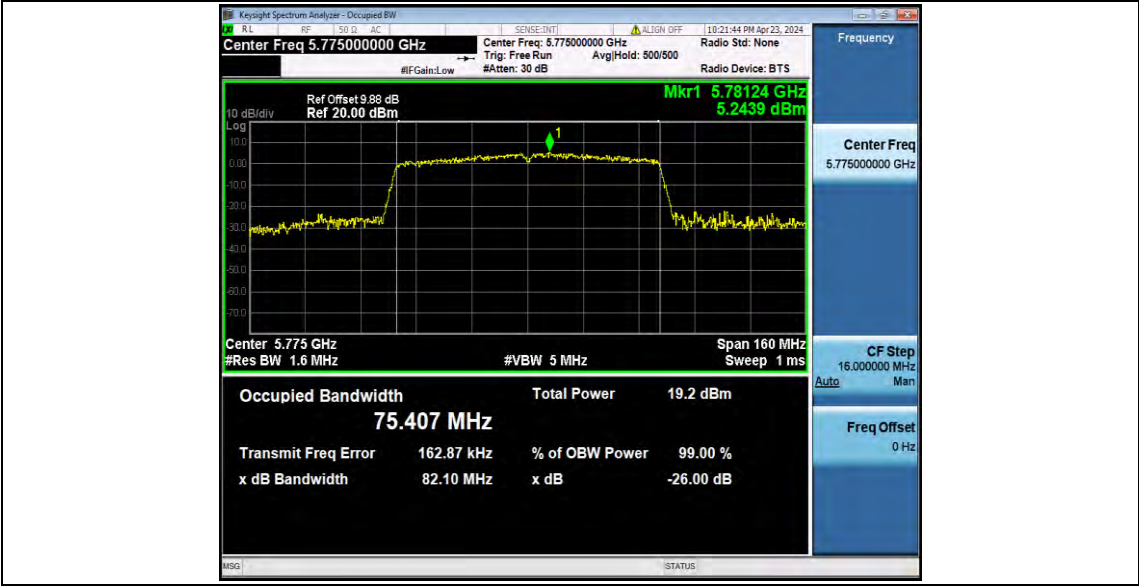
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

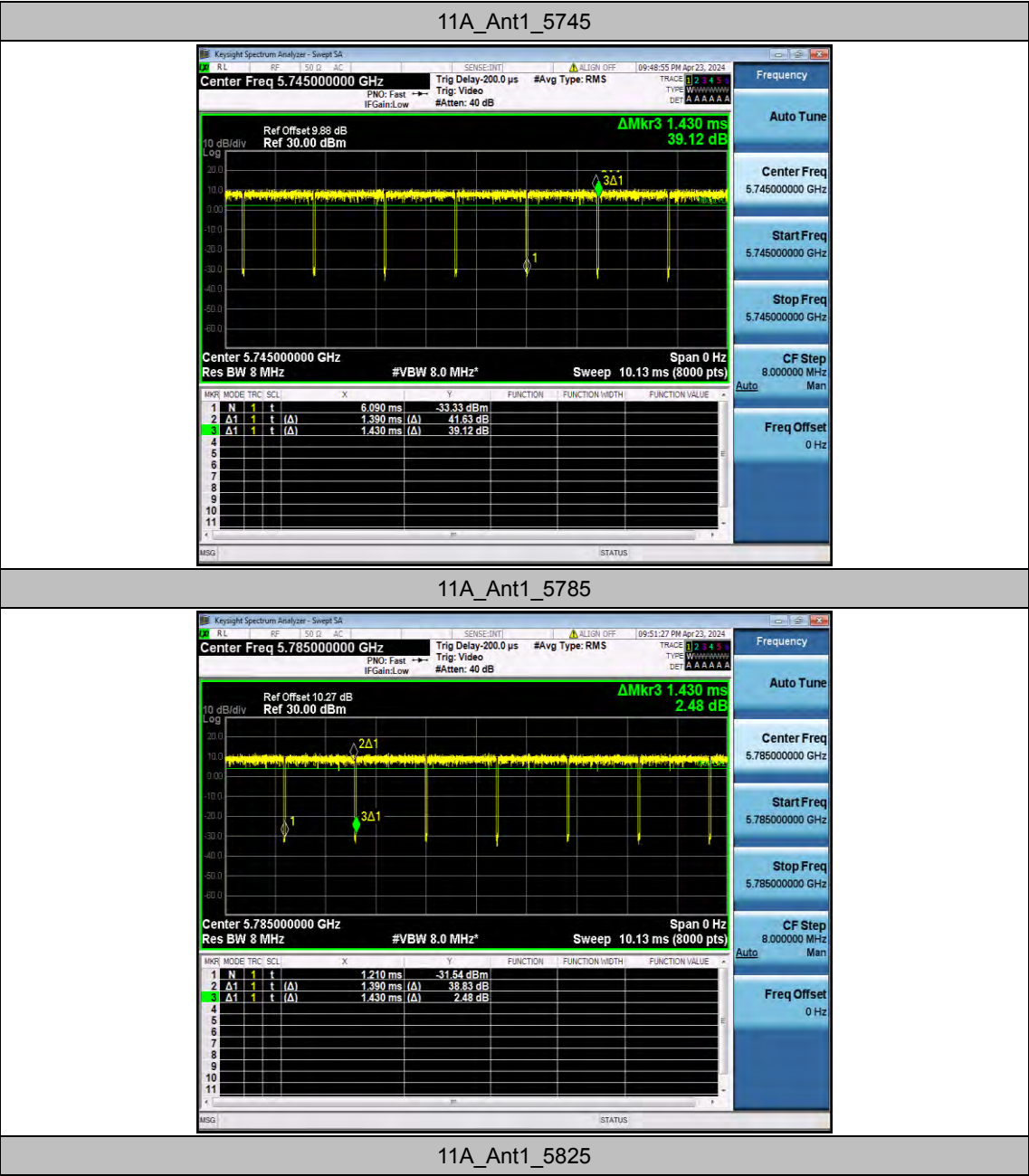


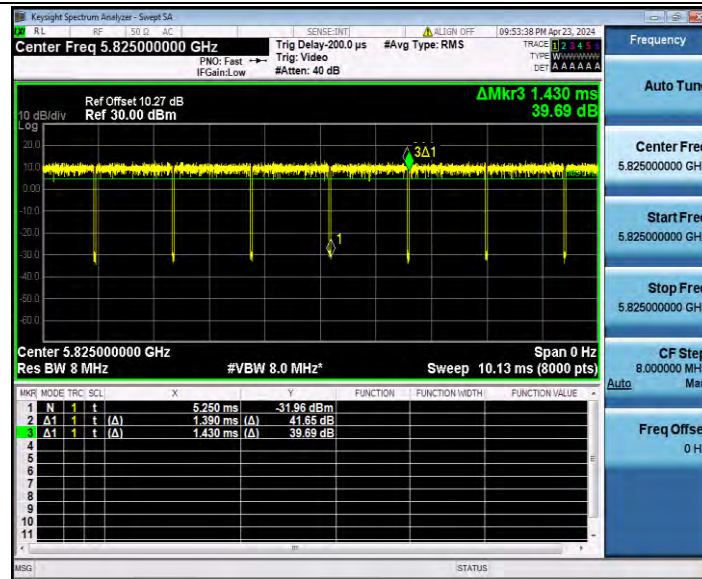
Appendix G.3: Duty Cycle

Test Result

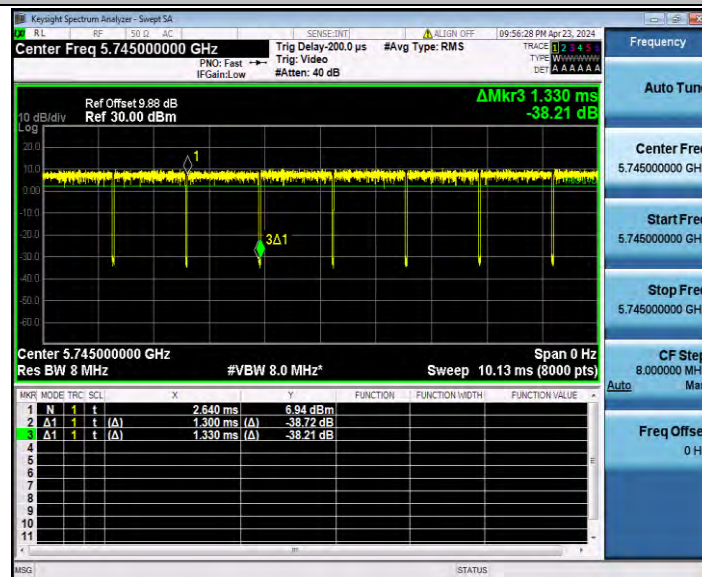
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	1.39	1.43	97.20	0.12	0.72
		5785	1.39	1.43	97.20	0.12	0.72
		5825	1.39	1.43	97.20	0.12	0.72
11N20SISO	Ant1	5745	1.30	1.33	97.74	0.10	0.77
		5785	1.30	1.33	97.74	0.10	0.77
		5825	1.30	1.34	97.01	0.13	0.77
11N40SISO	Ant1	5755	0.65	0.69	94.20	0.26	1.54
		5795	0.65	0.68	95.59	0.20	1.54
11AC20SISO	Ant1	5745	1.31	1.34	97.76	0.10	0.76
		5785	1.31	1.35	97.04	0.13	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	0.68	95.59	0.20	1.54
11AC80SISO	Ant1	5775	0.33	0.36	91.67	0.38	3.03

Test Graphs

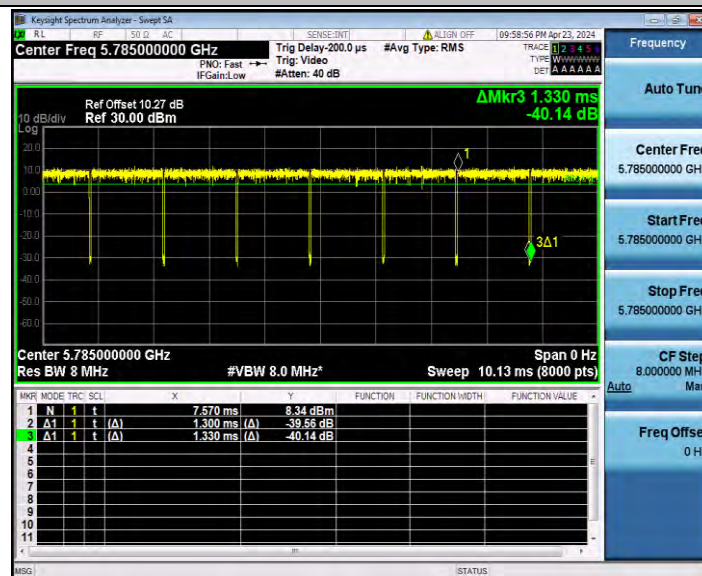




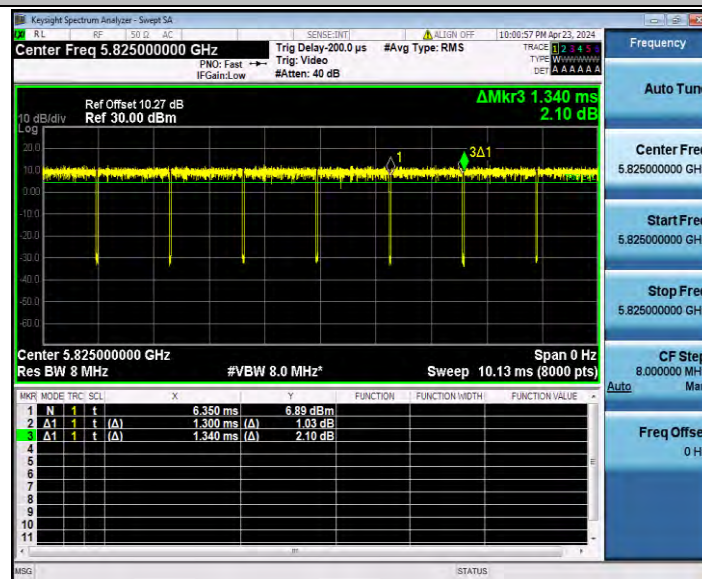
11N20SISO_Ant1_5745



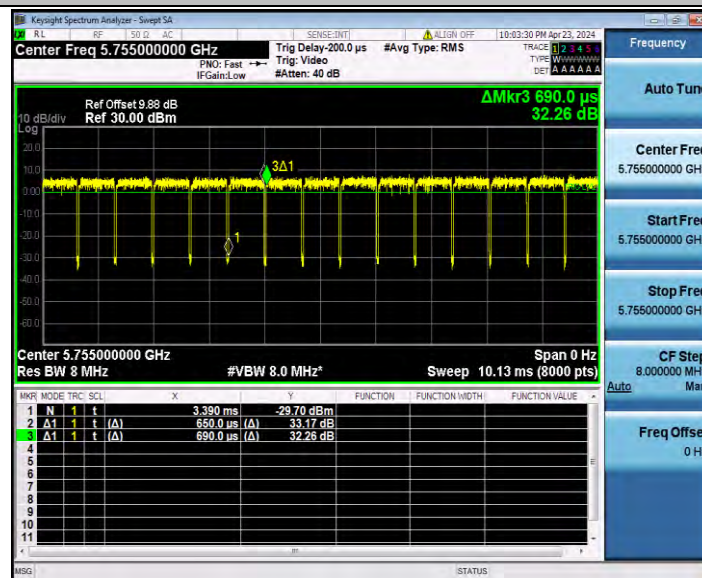
11N20SISO_Ant1_5785



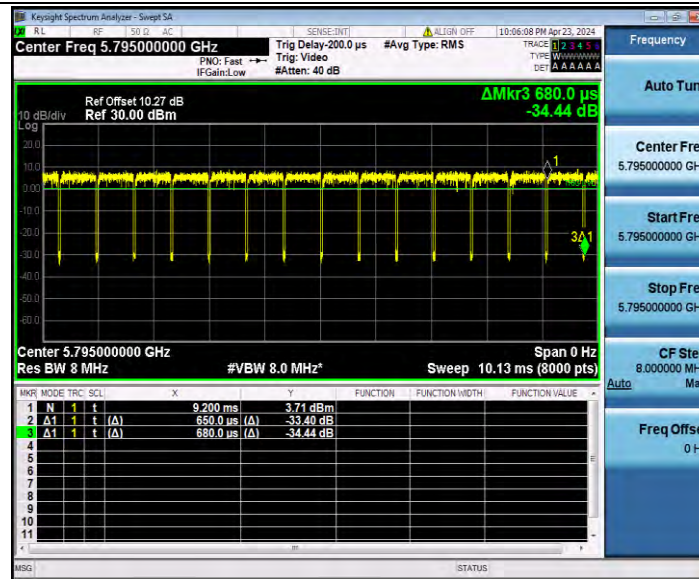
11N20SISO_Ant1_5825



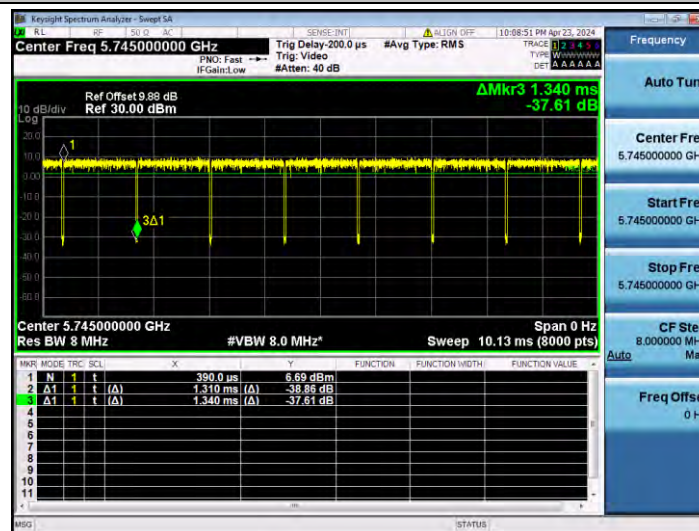
11N40SISO_Ant1_5755



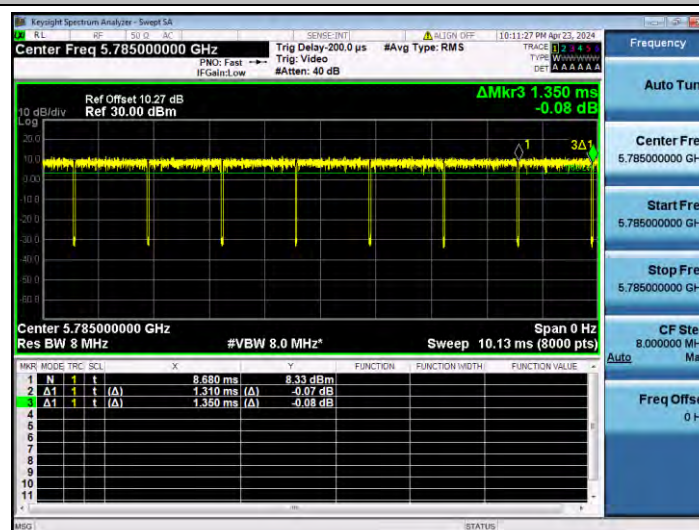
11N40SISO_Ant1_5795



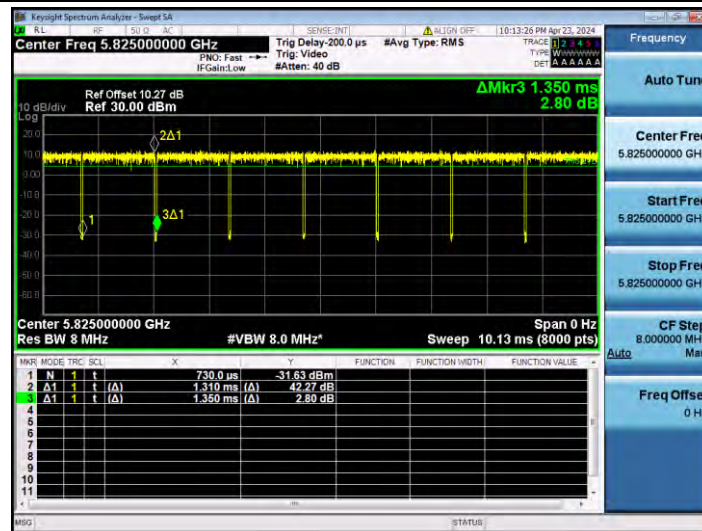
11AC20SISO_Ant1_5745



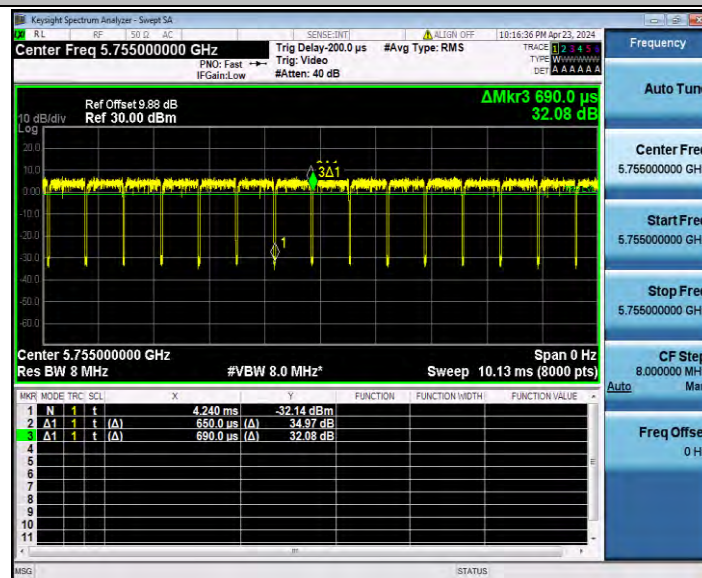
11AC20SISO_Ant1_5785



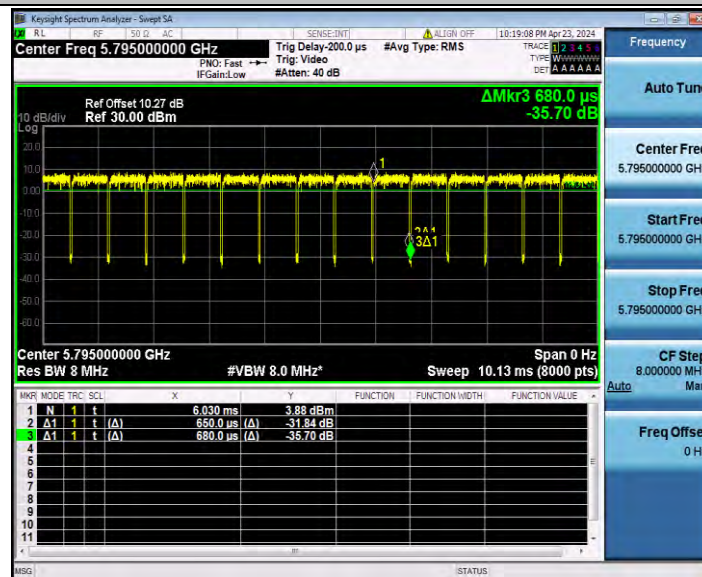
11AC20SISO_Ant1_5825



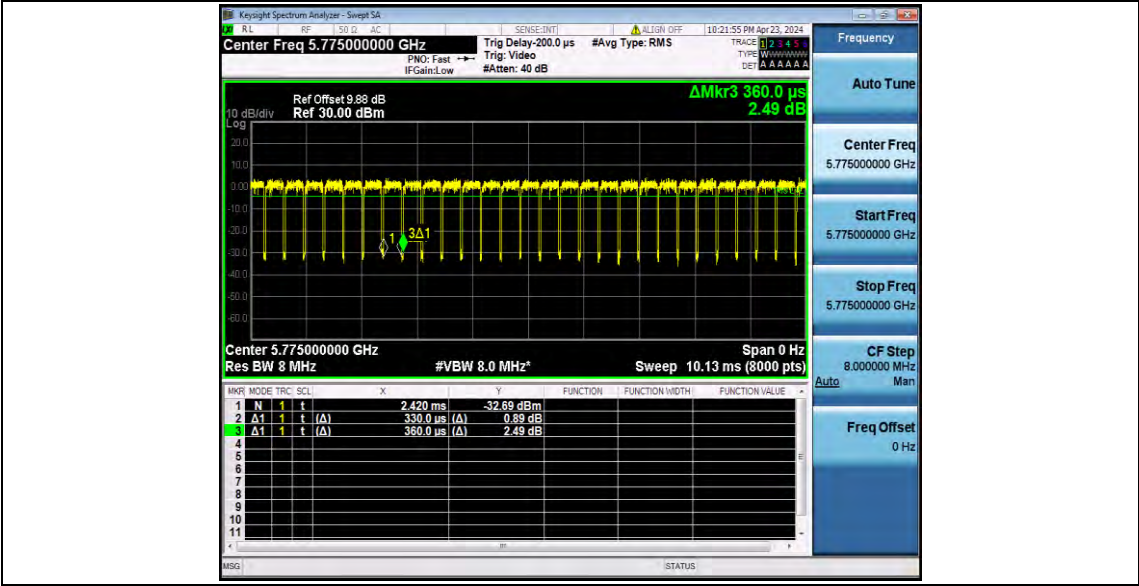
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



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	Ant1	5745	10.40	97.20	0.12	10.52	≤30.00	PASS
		5785	11.56	97.20	0.12	11.68	≤30.00	PASS
		5825	12.24	97.20	0.12	12.36	≤30.00	PASS
11N20SISO	Ant1	5745	10.10	97.74	0.10	10.20	≤30.00	PASS
		5785	11.26	97.74	0.10	11.36	≤30.00	PASS
		5825	12.01	97.01	0.13	12.14	≤30.00	PASS
11N40SISO	Ant1	5755	10.07	94.20	0.26	10.33	≤30.00	PASS
		5795	10.96	95.59	0.20	11.16	≤30.00	PASS
11AC20SISO	Ant1	5745	9.59	97.76	0.10	9.69	≤30.00	PASS
		5785	11.20	97.04	0.13	11.33	≤30.00	PASS
		5825	11.86	97.04	0.13	11.99	≤30.00	PASS
11AC40SISO	Ant1	5755	9.47	94.20	0.26	9.73	≤30.00	PASS
		5795	11.02	95.59	0.20	11.22	≤30.00	PASS
11AC80SISO	Ant1	5775	9.71	91.67	0.38	10.09	≤30.00	PASS

Note:

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

Appendix G.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-2.74	≤30.00	PASS
		5785	-1.74	≤30.00	PASS
		5825	-1.04	≤30.00	PASS
11N20SISO	Ant1	5745	-3.22	≤30.00	PASS
		5785	-2.23	≤30.00	PASS
		5825	-1.43	≤30.00	PASS
11N40SISO	Ant1	5755	-5.98	≤30.00	PASS
		5795	-5.25	≤30.00	PASS
11AC20SISO	Ant1	5745	-3.84	≤30.00	PASS
		5785	-2.23	≤30.00	PASS
		5825	-1.45	≤30.00	PASS
11AC40SISO	Ant1	5755	-6.71	≤30.00	PASS
		5795	-5.06	≤30.00	PASS
11AC80SISO	Ant1	5775	-9.50	≤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



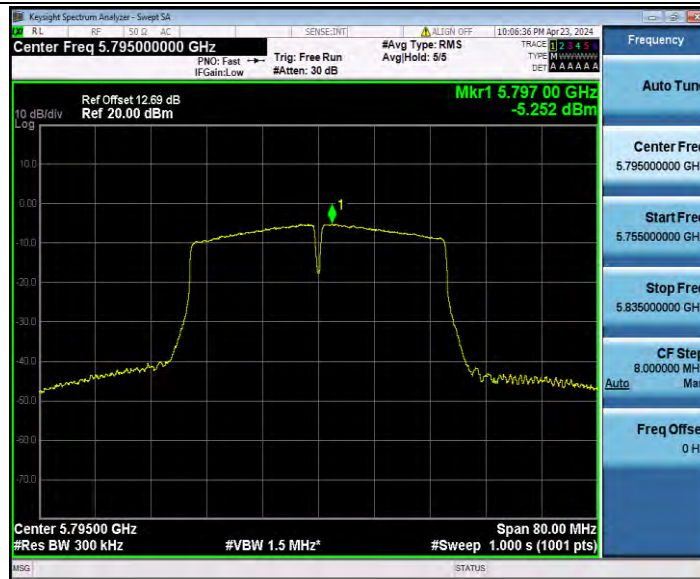
11N20SISO_Ant1_5825



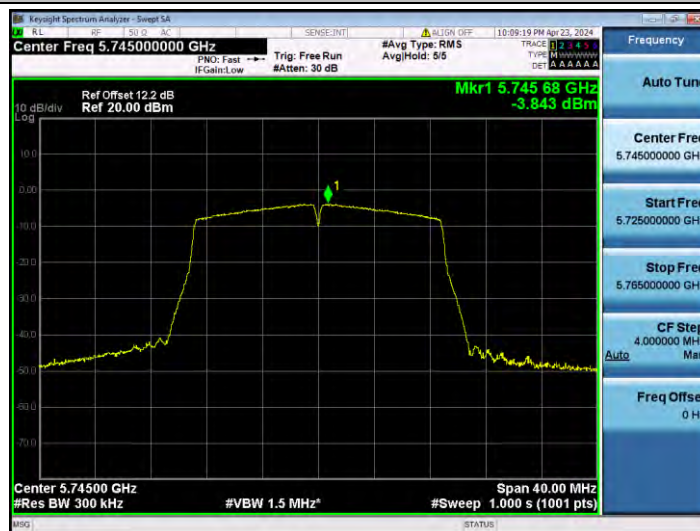
11N40SISO_Ant1_5755



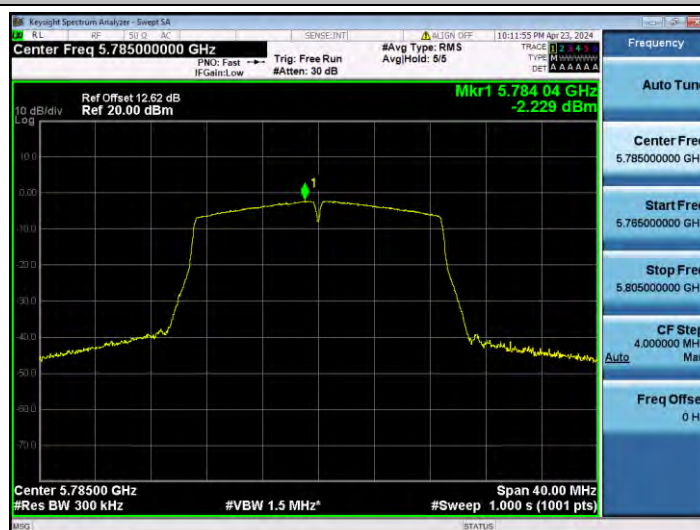
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825

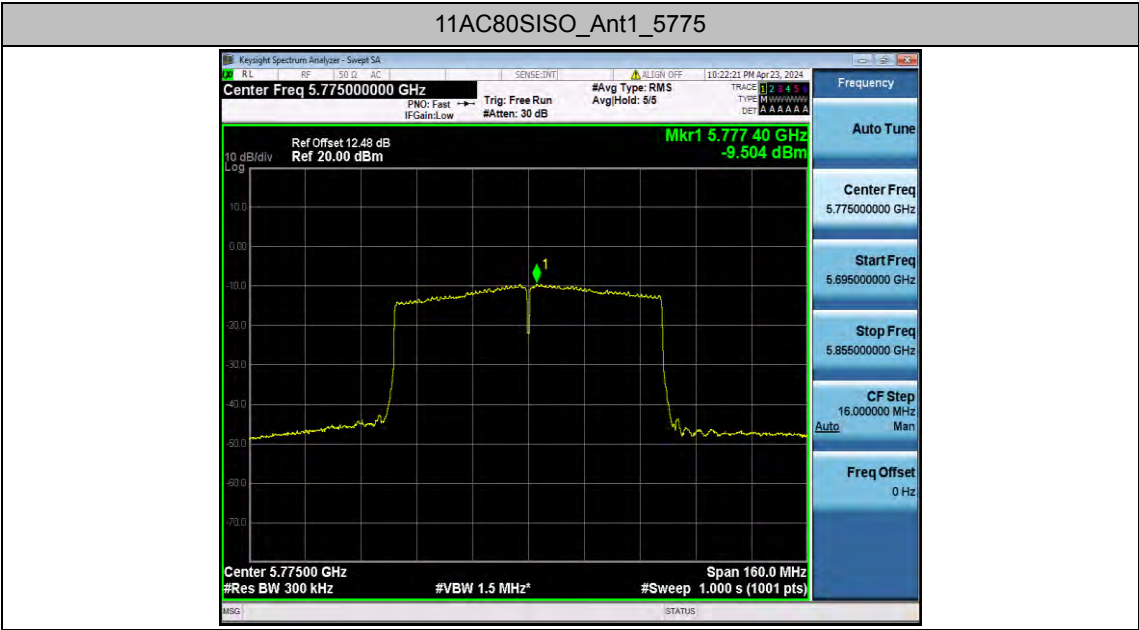


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





Appendix G.6: Band edge measurements

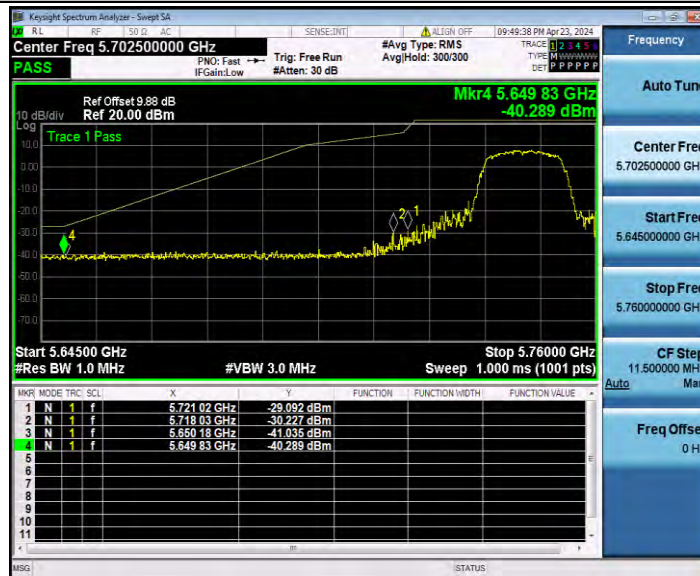
Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-41.04	≤-26.87	PASS
				5700~5720	-30.23	≤15.05	PASS
				5720~5725	-29.09	≤17.91	PASS
				5760~5650	-40.29	≤-27	PASS
		High	5825	5850~5855	-29.7	≤20.96	PASS
				5855~5875	-35.29	≤12.10	PASS
				5875~5925	-40.22	≤-26.91	PASS
				5925~5935	-37.74	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-40.04	≤-26.70	PASS
				5700~5720	-30.26	≤13.95	PASS
				5720~5725	-28.78	≤18.44	PASS
				5760~5650	-39.03	≤-27	PASS
		High	5825	5850~5855	-28.54	≤16.03	PASS
				5855~5875	-29.2	≤15.20	PASS
				5875~5925	-39.91	≤-26.81	PASS
				5925~5935	-38.18	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-39.67	≤-26.90	PASS
				5700~5720	-21.38	≤15.43	PASS
				5720~5725	-21.78	≤16.35	PASS
				5780~5650	-39.32	≤-27	PASS
		High	5795	5850~5855	-36.07	≤16.03	PASS
				5855~5875	-33.74	≤12.19	PASS
				5875~5925	-40.19	≤-26.83	PASS
				5925~5935	-38.98	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-40.11	≤-26.96	PASS
				5700~5720	-33.1	≤11.25	PASS
				5720~5725	-29.36	≤16.60	PASS
				5760~5650	-39.43	≤-27	PASS
		High	5825	5850~5855	-28.46	≤19.11	PASS
				5855~5875	-32.71	≤14.22	PASS
				5875~5925	-39.1	≤-26.91	PASS
				5925~5935	-38.36	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-39.06	≤-26.90	PASS
				5700~5720	-26.3	≤15.05	PASS
				5720~5725	-29.37	≤15.74	PASS
				5780~5650	-39.55	≤-27	PASS

		High	5795	5850~5855	-35.37	≤ 17.16	PASS
				5855~5875	-37.25	≤ 10.06	PASS
				5875~5925	-39.26	≤ -26.46	PASS
				5925~5935	-38.29	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-38.08	≤ -26.91	PASS
				5700~5720	-30.63	≤ 10.35	PASS
				5720~5725	-28.43	≤ 17.77	PASS
				5800~5650	-37.81	≤ -27	PASS
		High	5775	5850~5855	-27.64	≤ 17.10	PASS
				5855~5875	-30.43	≤ 11.64	PASS
				5875~5925	-39.66	≤ -26.87	PASS
				5925~5935	-38.4	≤ -27	PASS

Test Graphs B4

11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



11N20SISO_Ant1_High_5825



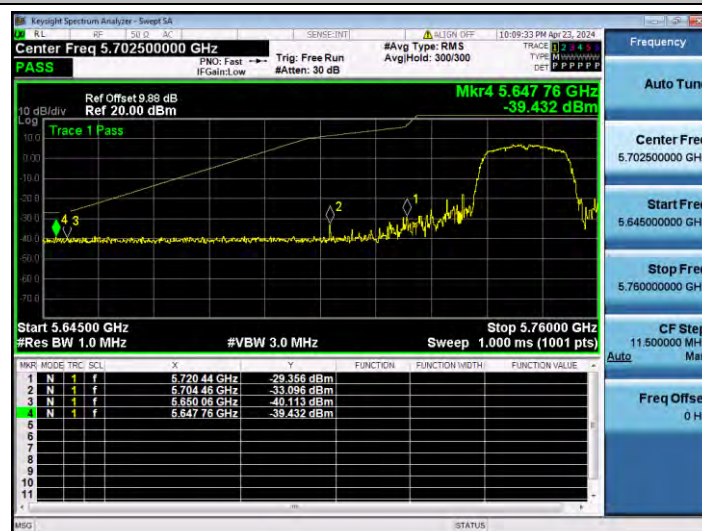
11N40SISO_Ant1_Low_5755



11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



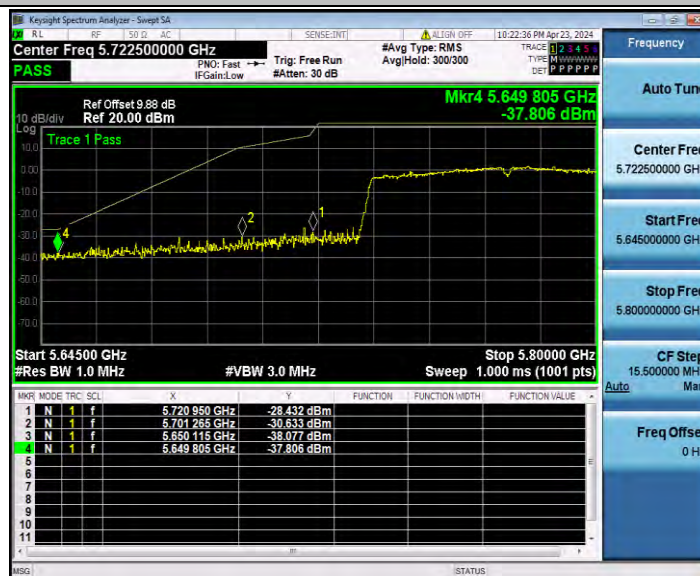
11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



11AC80SISO_Ant1_Low_5775





Appendix G.7: Conducted Spurious Emission

Test Result

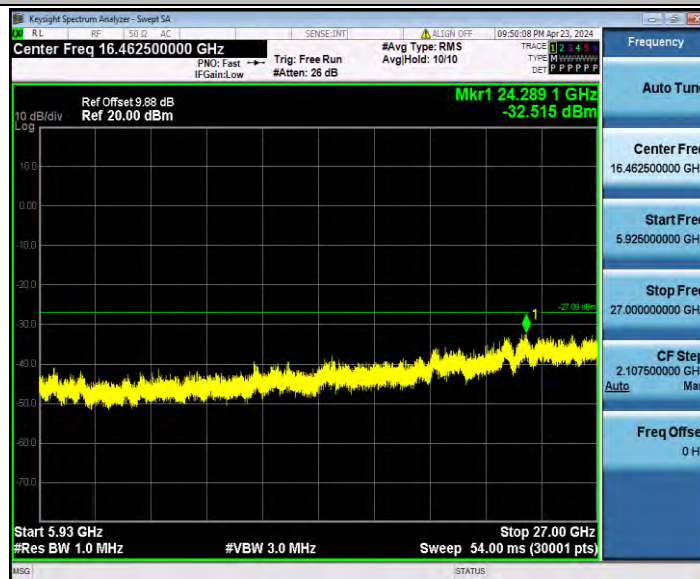
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5371.25	-40.54	≤-27	PASS
			5925~40000	24289.05	-32.52	≤-27	PASS
		5785	30~5650	5476.72	-40	≤-27	PASS
			5925~40000	24227.94	-31.2	≤-27	PASS
		5825	30~5650	2672.9	-40.28	≤-27	PASS
			5925~40000	24102.89	-31.98	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	3228.53	-40.08	≤-27	PASS
			5925~40000	25997.53	-31.84	≤-27	PASS
		5785	30~5650	5488.52	-40.45	≤-27	PASS
			5925~40000	23586.55	-31.17	≤-27	PASS
		5825	30~5650	3026.77	-40	≤-27	PASS
			5925~40000	25675.09	-31.05	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5384.36	-40.33	≤-27	PASS
			5925~40000	25609.05	-32.5	≤-27	PASS
		5795	30~5650	5447.49	-39.42	≤-27	PASS
			5925~40000	26852.48	-32.12	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5006.7	-40.5	≤-27	PASS
			5925~40000	26053.03	-31.39	≤-27	PASS
		5785	30~5650	2703.25	-39.59	≤-27	PASS
			5925~40000	26062.16	-31.42	≤-27	PASS
		5825	30~5650	5454.05	-39.41	≤-27	PASS
			5925~40000	24209.67	-31.65	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5374.25	-40.07	≤-27	PASS
			5925~40000	26702.14	-31.8	≤-27	PASS
		5795	30~5650	5312.8	-39.46	≤-27	PASS
			5925~40000	24246.9	-31.45	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5627.71	-40.32	≤-27	PASS
			5925~40000	24893.2	-31.73	≤-27	PASS

Test Graphs

11A_Ant1_5745_30~5650



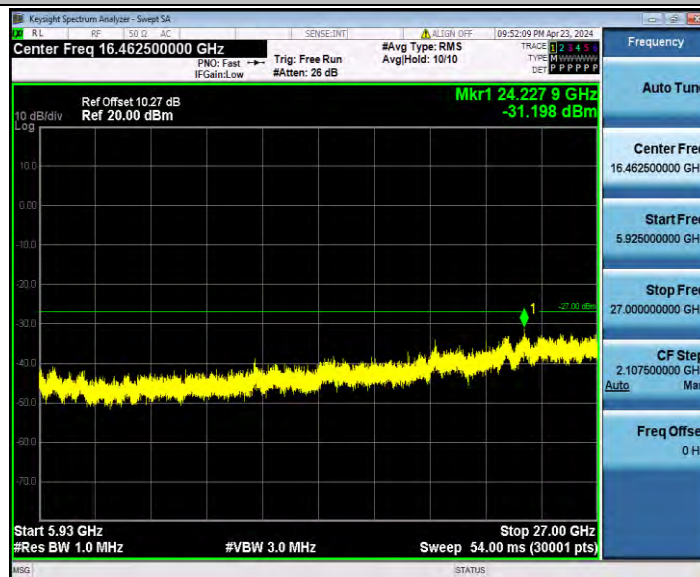
11A_Ant1_5745_5925~40000



11A_Ant1_5785_30~5650



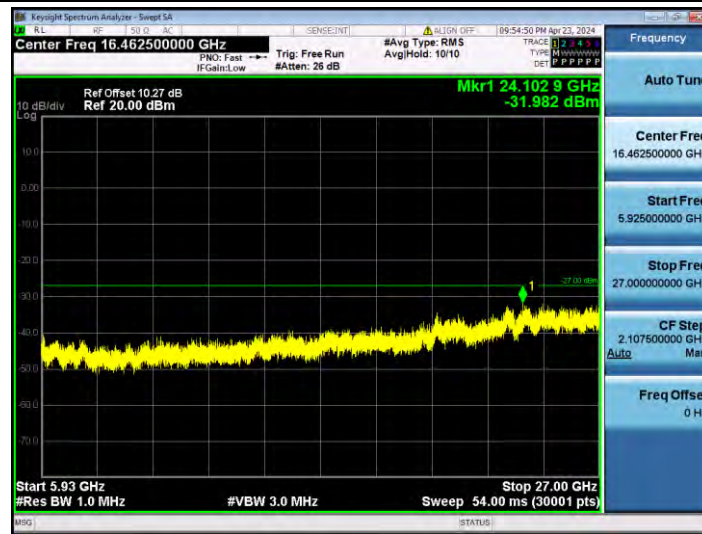
11A_Ant1_5785_5925~40000



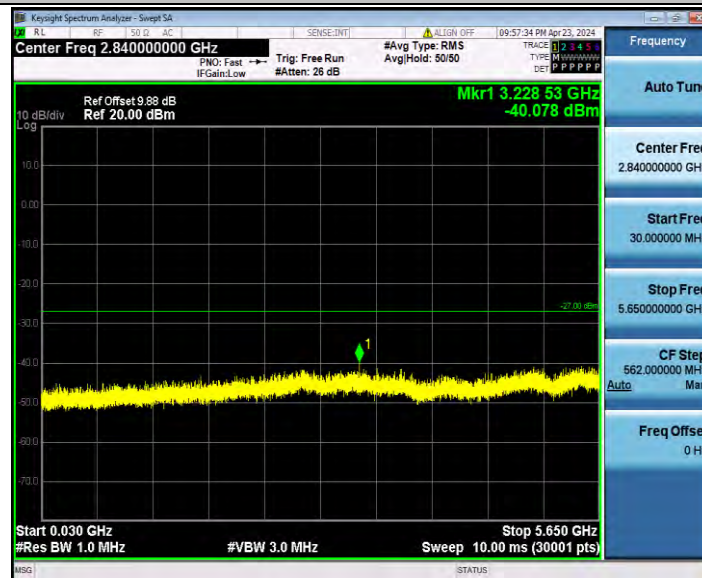
11A_Ant1_5825_30~5650



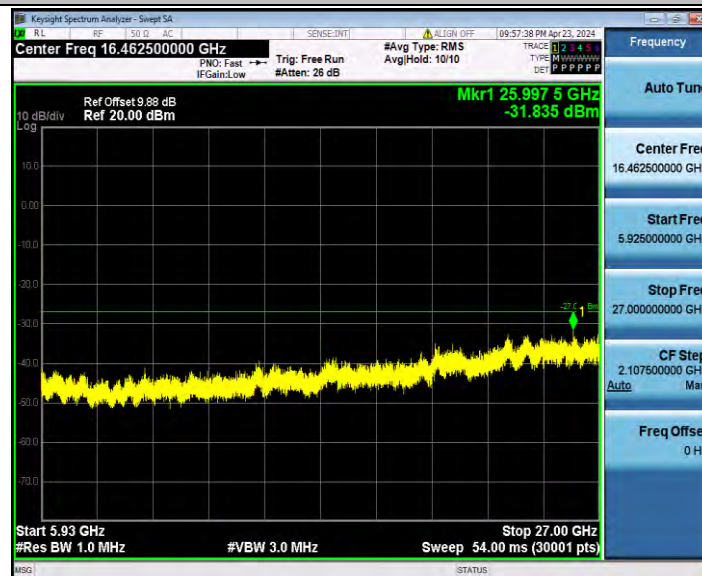
11A_Ant1_5825_5925~40000



11N20SISO_Ant1_5745_30~5650



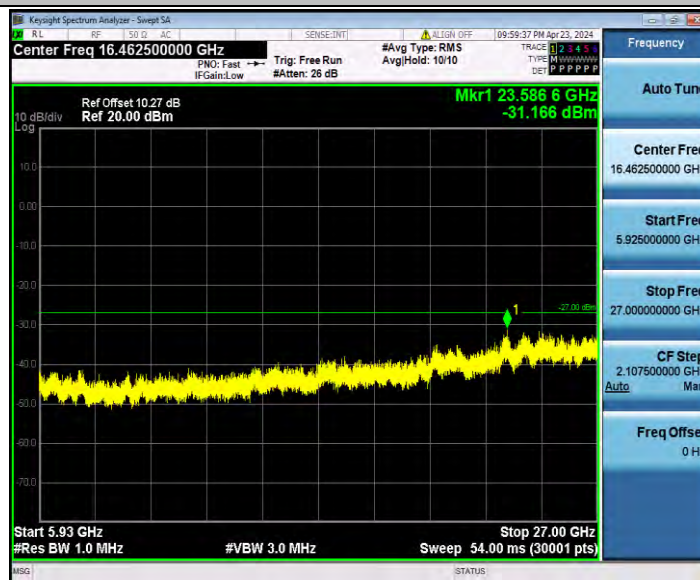
11N20SISO_Ant1_5745_5925~40000



11N20SISO_Ant1_5785_30~5650



11N20SISO_Ant1_5785_5925~40000



11N20SISO_Ant1_5825_30~5650



11N20SISO_Ant1_5825_5925~40000



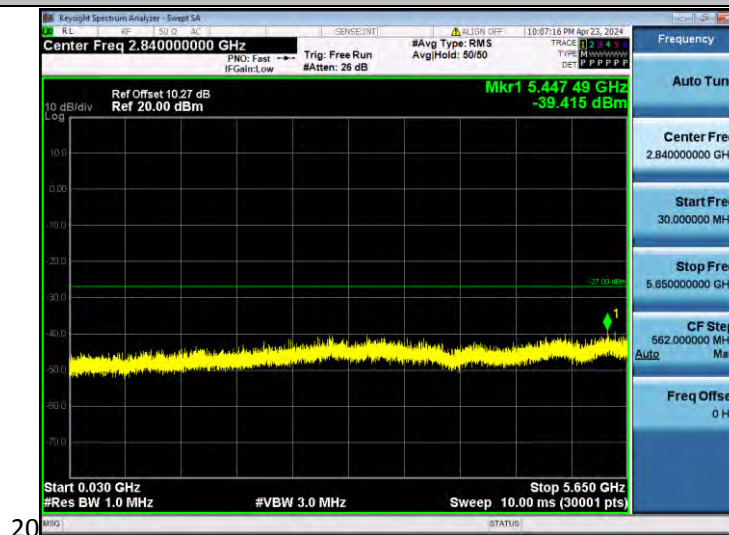
11N40SISO_Ant1_5755_30~5650



11N40SISO_Ant1_5755_5925~40000

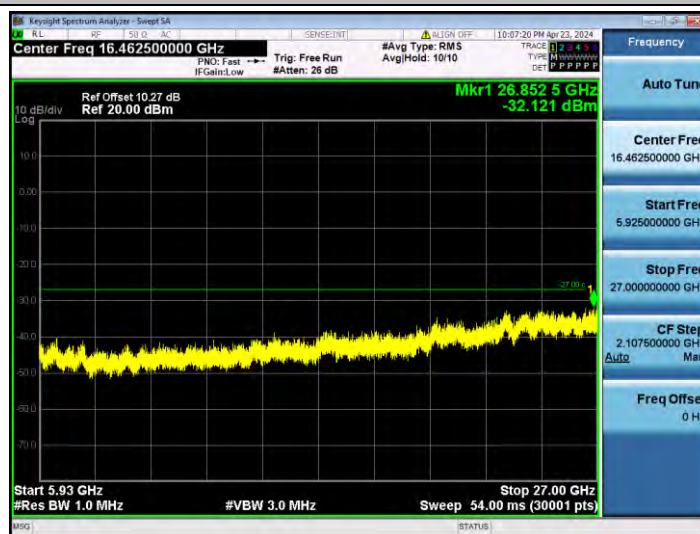


11N40SISO_Ant1_5795_30~5650

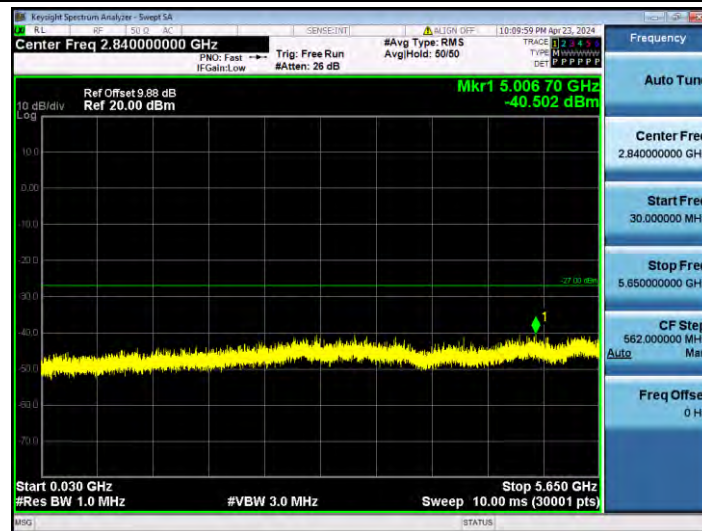


20

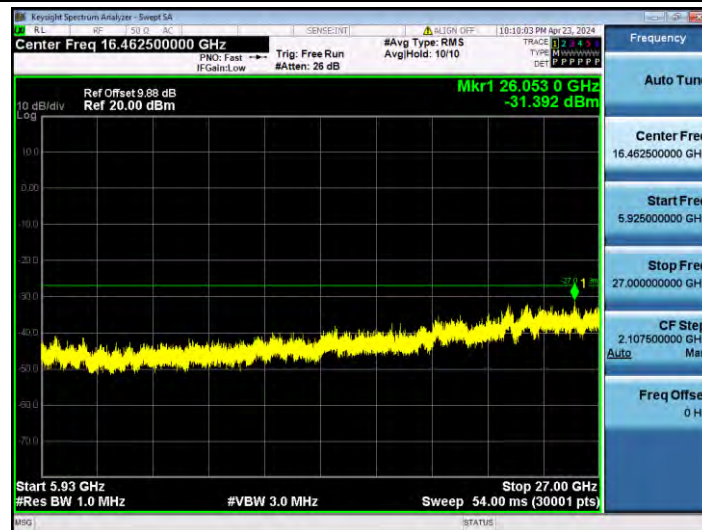
11N40SISO_Ant1_5795_5925~40000



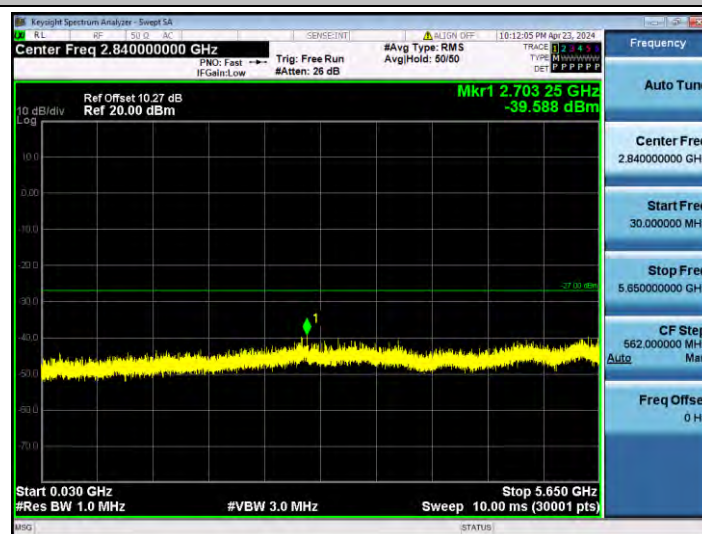
11AC20SISO_Ant1_5745_30~5650



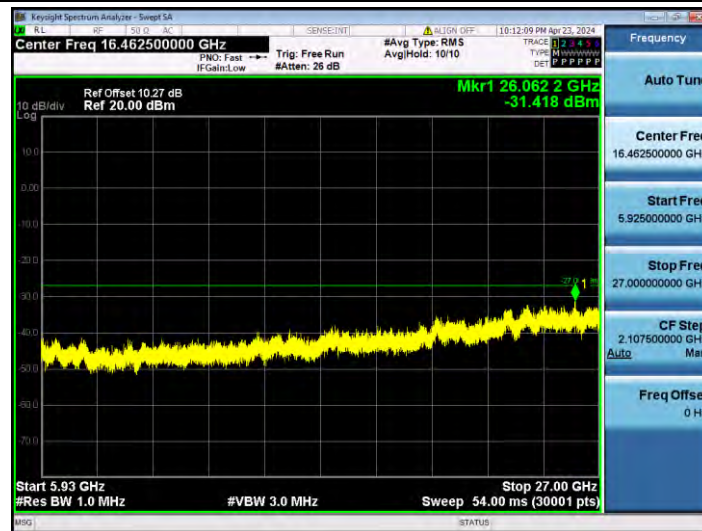
11AC20SISO_Ant1_5745_5925~40000



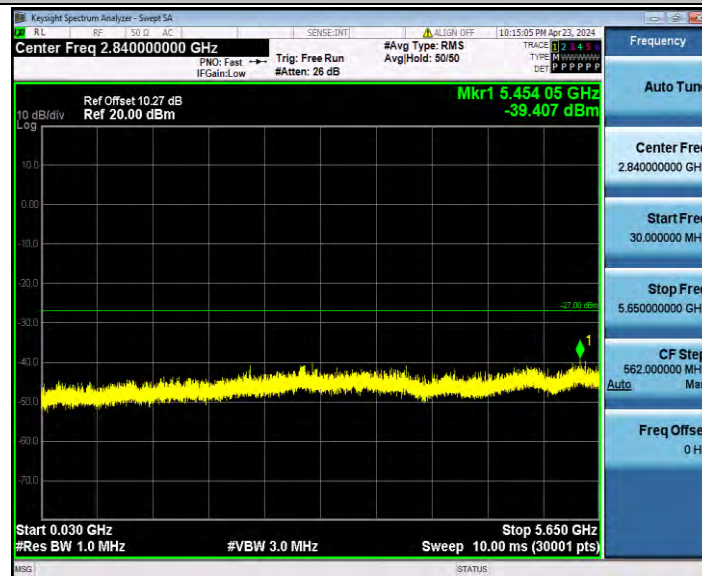
11AC20SISO_Ant1_5785_30~5650



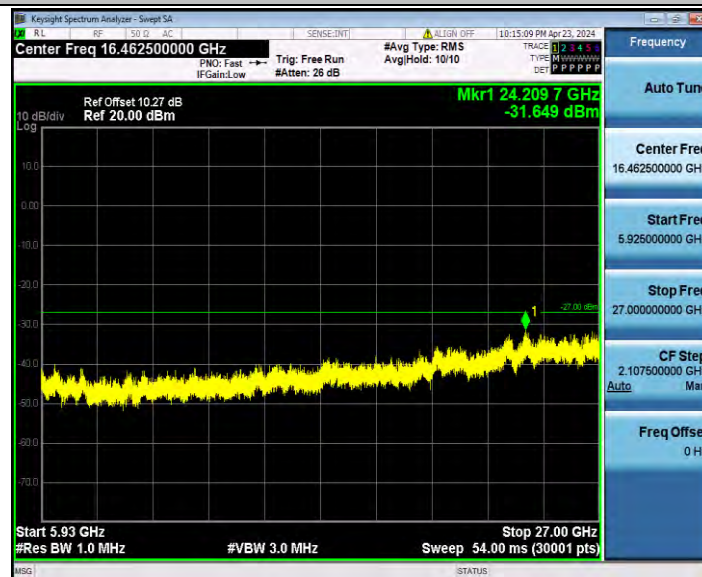
11AC20SISO_Ant1_5785_5925~40000



11AC20SISO_Ant1_5825_30~5650



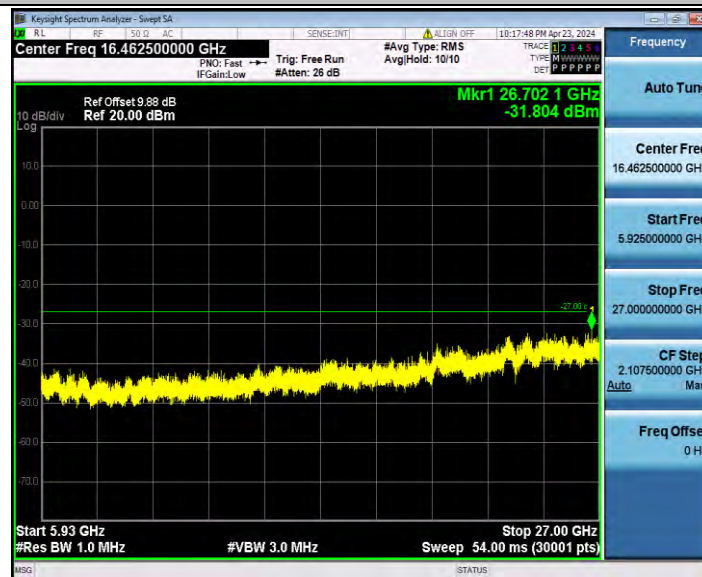
11AC20SISO_Ant1_5825_5925~40000



11AC40SISO_Ant1_5755_30~5650



11AC40SISO_Ant1_5755_5925~40000



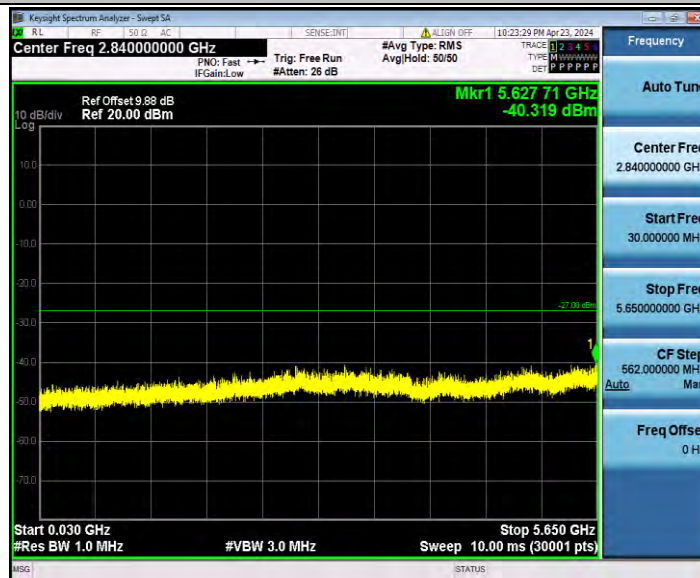
11AC40SISO_Ant1_5795_30~5650



11AC40SISO_Ant1_5795_5925~40000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~40000



Appendix G.8: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-40.16	≤-27.00	---	---	PASS
				Peak	5700.000	-40.63	≤10.00	---	---	PASS
				Peak	5720.000	-33.67	≤15.60	---	---	PASS
				Peak	5725.000	-26.03	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-32.35 ₃	≤27.00	---	---	PASS
				Peak	5855.000	-36.46	≤15.60	---	---	PASS
				Peak	5875.000	-39.2	≤10.00	---	---	PASS
				Peak	5925.000	-38.76	≤-27.00	---	---	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-40.13 ₉	≤-27.00	---	---	PASS
				Peak	5700.000	-39.68	≤10.00	---	---	PASS
				Peak	5720.000	-35.41	≤15.60	---	---	PASS
				Peak	5725.000	-24.95	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-29.19 ₈	≤27.00	---	---	PASS
				Peak	5855.000	-32.92	≤15.60	---	---	PASS
				Peak	5875.000	-35.15	≤10.00	---	---	PASS
				Peak	5925.000	-38.51	≤-27.00	---	---	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-40.26 ₇	≤-27.00	---	---	PASS
				Peak	5700.000	-34.3	≤10.00	---	---	PASS
				Peak	5720.000	-19.53	≤15.60	---	---	PASS
				Peak	5725.000	-28.5	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-30.86 ₃	≤27.00	---	---	PASS
				Peak	5855.000	-38.45	≤15.60	---	---	PASS
				Peak	5875.000	-38.92	≤10.00	---	---	PASS
				Peak	5925.000	-38.5	≤-27.00	---	---	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-39.02	≤-27.00	---	---	PASS
				Peak	5700.000	-40.2	≤10.00	---	---	PASS
				Peak	5720.000	-34.16	≤15.60	---	---	PASS
				Peak	5725.000	-28.72	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-28.67 ₈	≤27.00	---	---	PASS
				Peak	5855.000	-35.98	≤15.60	---	---	PASS

				Peak	5875.000	-37.41	≤ 10.00	---	---	PASS
				Peak	5925.000	-38.35	≤ -27.00	- - -	- - -	PASS
11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-39.78 1	≤ -27.00	---	---	PASS
				Peak	5700.000	-38.22	≤ 10.00	---	---	PASS
				Peak	5720.000	-34.17	≤ 15.60	---	---	PASS
				Peak	5725.000	-32.96	≤ 27.00	- - -	- - -	PASS
		High	5795	Peak	5850.000	-35.711	≤ 27.00	---	---	PASS
				Peak	5855.000	-33.33	≤ 15.60	---	---	PASS
				Peak	5875.000	-37.91	≤ 10.00	---	---	PASS
				Peak	5925.000	-37.37	≤ -27.00	- - -	- - -	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-38.36 8	≤ -27.00	---	---	PASS
				Peak	5700.000	-36.35	≤ 10.00	---	---	PASS
				Peak	5720.000	-31.57	≤ 15.60	---	---	PASS
				Peak	5725.000	-30.89	≤ 27.00	- - -	- - -	PASS
		High	5775	Peak	5850.000	-33.66 2	≤ 27.00	---	---	PASS
				Peak	5855.000	-27.88	≤ 15.60	---	---	PASS
				Peak	5875.000	-32.98	≤ 10.00	---	---	PASS
				Peak	5925.000	-39.82	≤ -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

11A_Ant1_Low_5745_Peak



11A_Ant1_High_5825_Peak



11N20SISO_Ant1_Low_5745_Peak



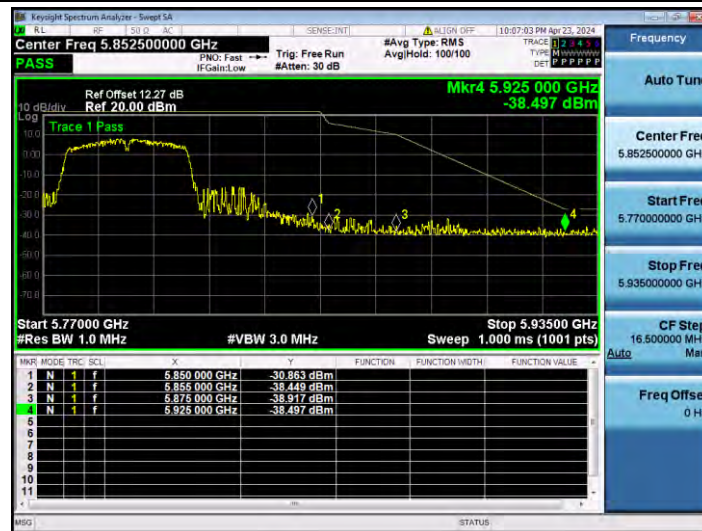
11N20SISO_Ant1_High_5825_Peak



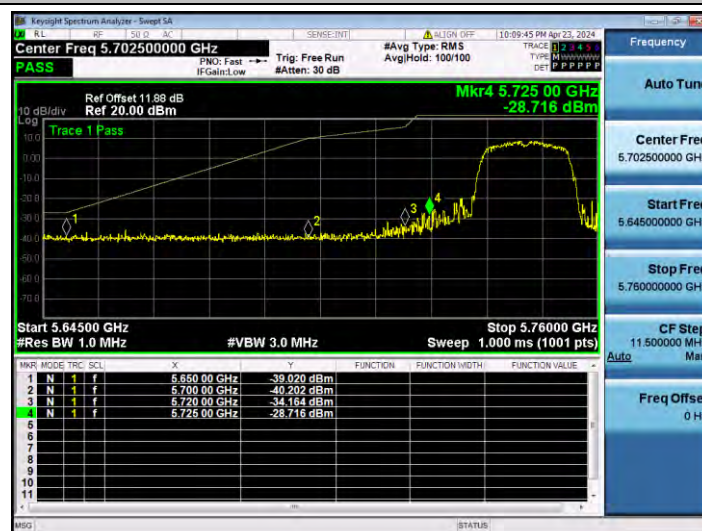
11N40SISO_Ant1_Low_5755_Peak



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



