

Case No. : <u>CTA24081600304</u>	
Ambient Condition: <u>23</u> °C, <u>51</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.8.20</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	Ant2	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	15.120	5817.400	5832.520	0.5	PASS
11N20SISO	Ant2	5745	15.120	5737.400	5752.520	0.5	PASS
		5785	15.040	5777.440	5792.480	0.5	PASS
		5825	15.120	5817.400	5832.520	0.5	PASS
11N40SISO	Ant2	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC20SISO	Ant2	5745	15.040	5737.480	5752.520	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	15.120	5817.400	5832.520	0.5	PASS
11AC40SISO	Ant2	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC80SISO	Ant2	5775	75.040	5737.400	5812.440	0.5	PASS

Test Graphs B4

11A_Ant2_5745



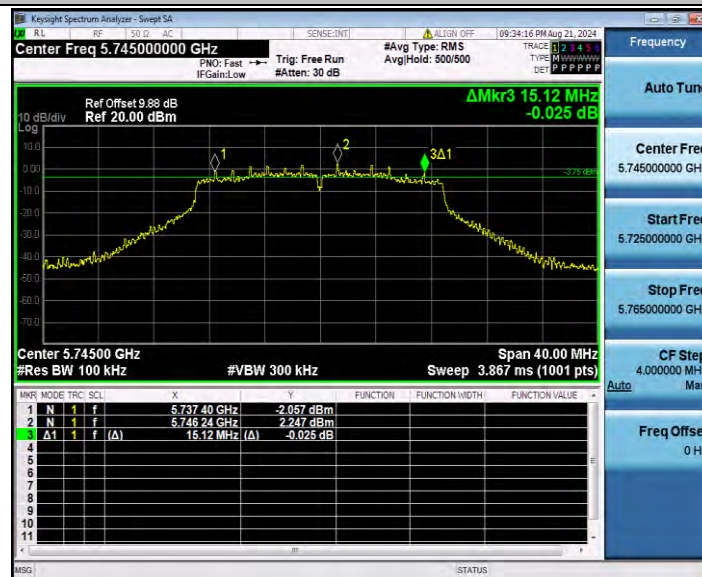
11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5745



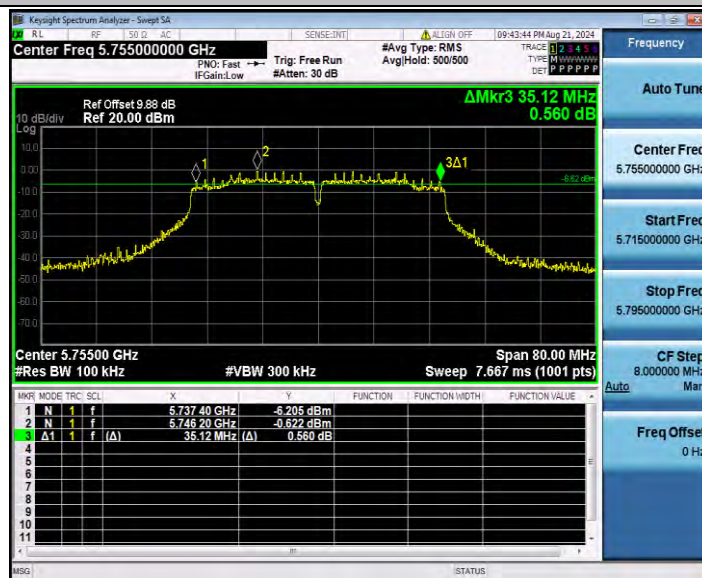
11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



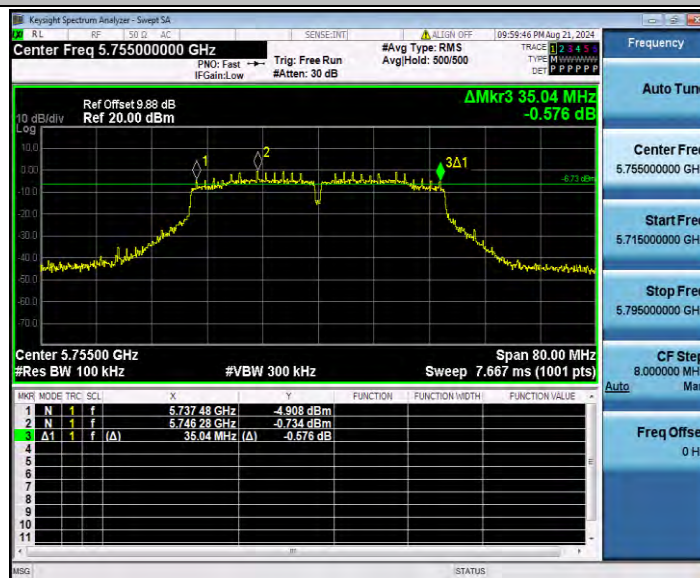
11N40SISO_Ant2_5795



11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



Appendix E.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5745	16.988	5736.4414	5753.4294	---	---
		5785	16.976	5776.4647	5793.4407	---	---
		5825	17.029	5816.4384	5833.4674	---	---
11N20SISO	Ant2	5745	18.060	5735.8988	5753.9588	---	---
		5785	18.021	5775.9224	5793.9434	---	---
		5825	18.037	5815.9394	5833.9764	---	---
11N40SISO	Ant2	5755	36.279	5736.8411	5773.1201	---	---
		5795	36.171	5776.8609	5813.0319	---	---
11AC20SISO	Ant2	5745	18.054	5735.8964	5753.9504	---	---
		5785	17.972	5775.9705	5793.9425	---	---
		5825	18.011	5815.9399	5833.9509	---	---
11AC40SISO	Ant2	5755	36.190	5736.8610	5773.0510	---	---
		5795	36.204	5776.8637	5813.0677	---	---
11AC80SISO	Ant2	5775	75.138	5737.3526	5812.4906	---	---

Test Graphs

11A_Ant2_5745



11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



11N40SISO_Ant2_5795



11AC20SISO_Ant2_5745



11AC20SISO_Ant2_5785



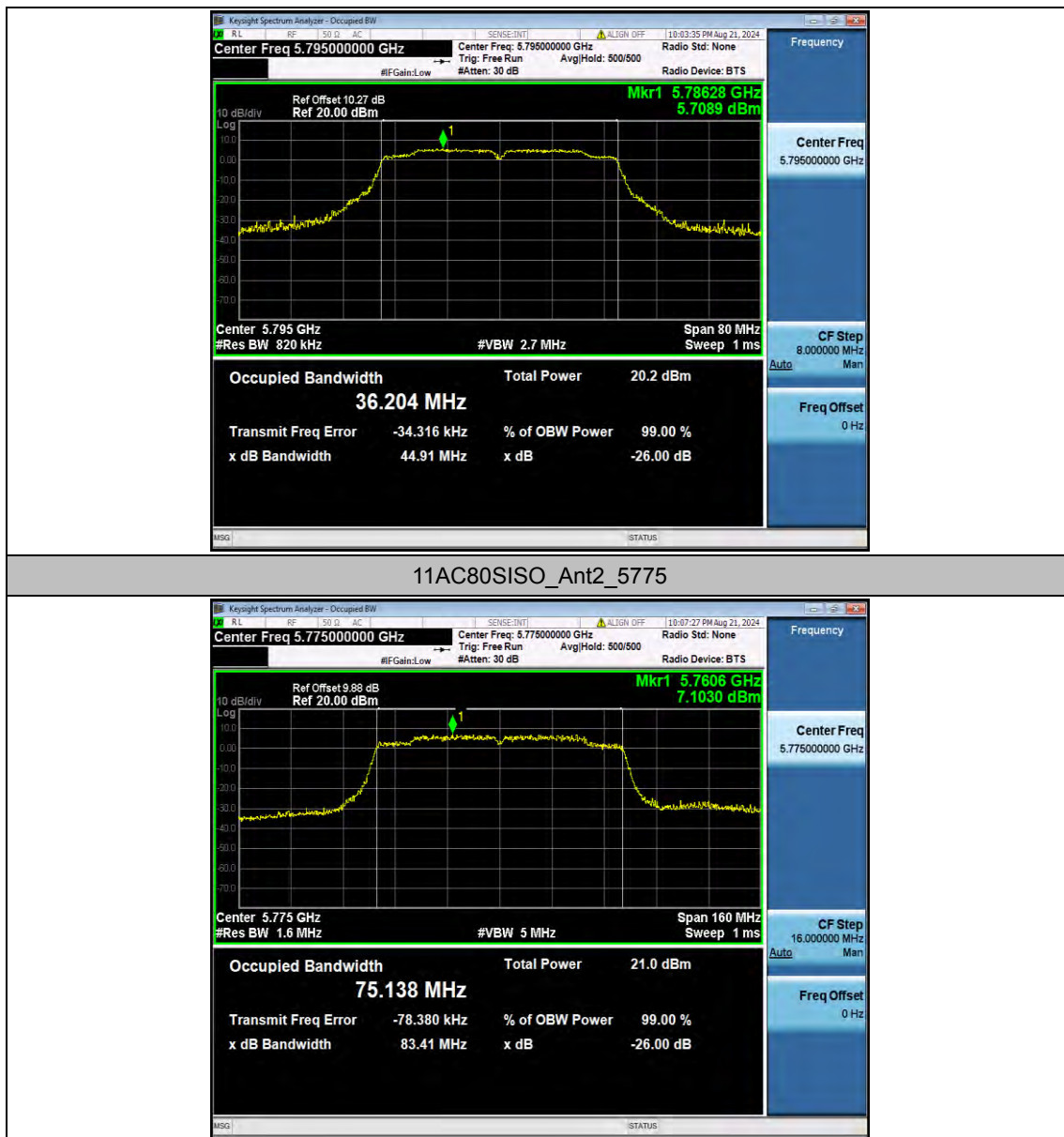
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795

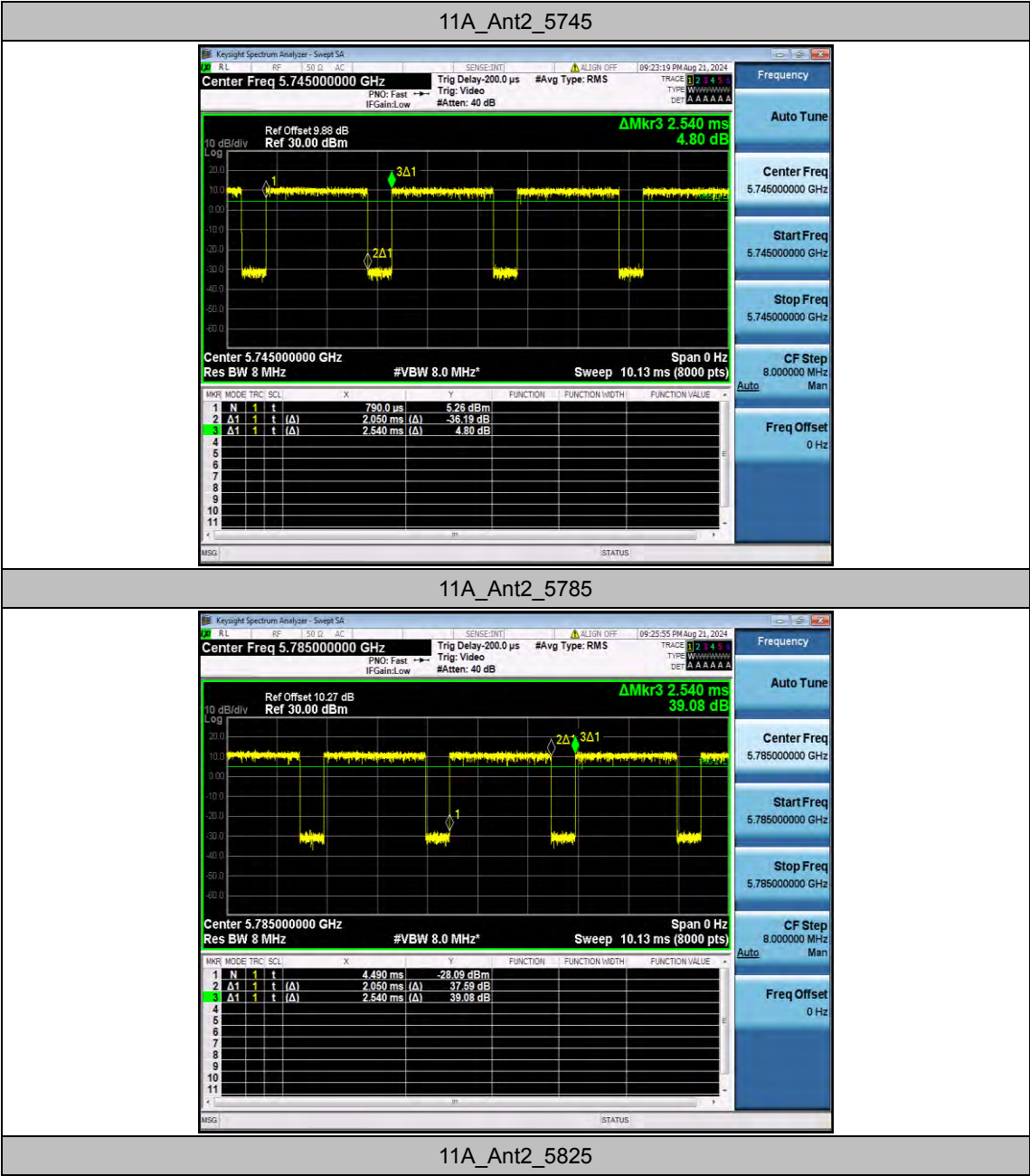


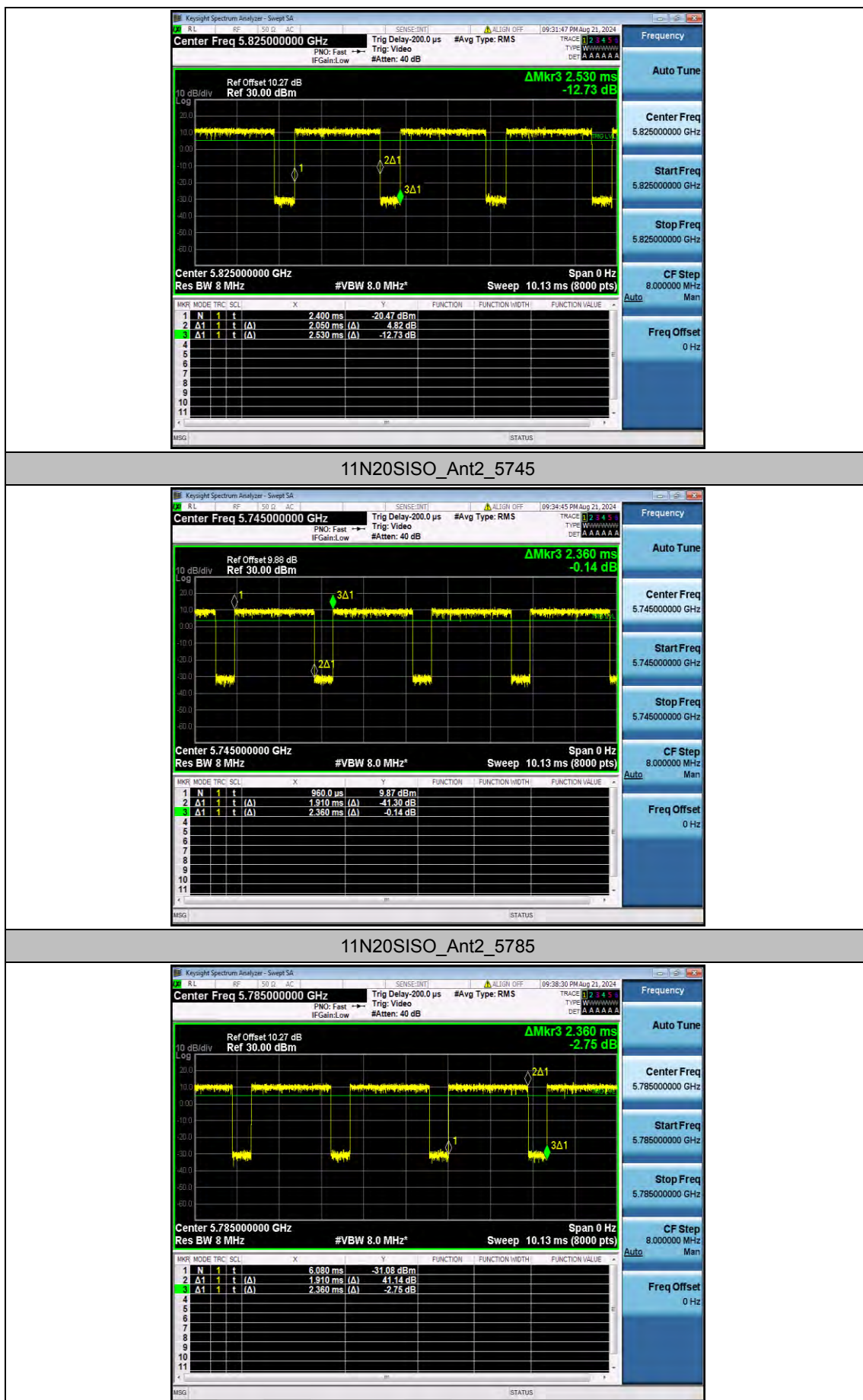
Appendix E.3: Duty Cycle

Test Result

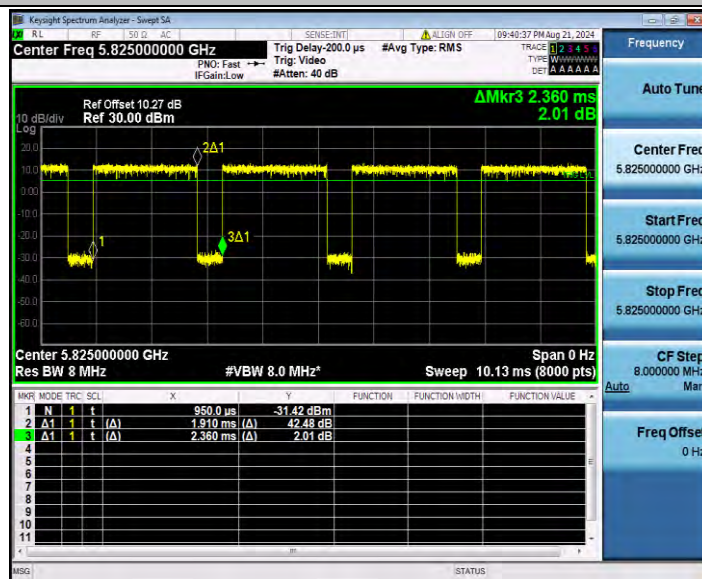
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant2	5745	2.05	2.54	80.71	0.93	0.49
		5785	2.05	2.54	80.71	0.93	0.49
		5825	2.05	2.53	81.03	0.91	0.49
11N20SISO	Ant2	5745	1.91	2.36	80.93	0.92	0.52
		5785	1.91	2.36	80.93	0.92	0.52
		5825	1.91	2.36	80.93	0.92	0.52
11N40SISO	Ant2	5755	0.94	1.17	80.34	0.95	1.06
		5795	0.94	1.17	80.34	0.95	1.06
11AC20SISO	Ant2	5745	1.91	2.37	80.59	0.94	0.52
		5785	1.91	2.37	80.59	0.94	0.52
		5825	1.91	2.37	80.59	0.94	0.52
11AC40SISO	Ant2	5755	0.95	1.17	81.20	0.90	1.05
		5795	0.95	1.17	81.20	0.90	1.05
11AC80SISO	Ant2	5775	0.46	0.57	80.70	0.93	2.17

Test Graphs

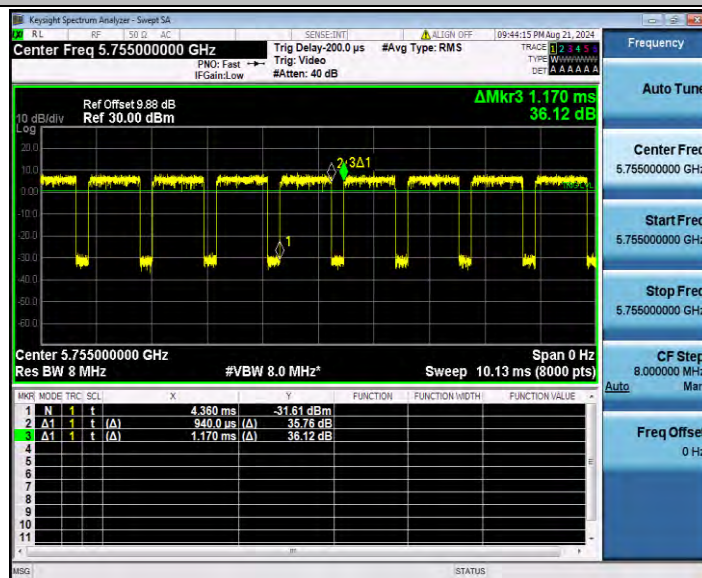




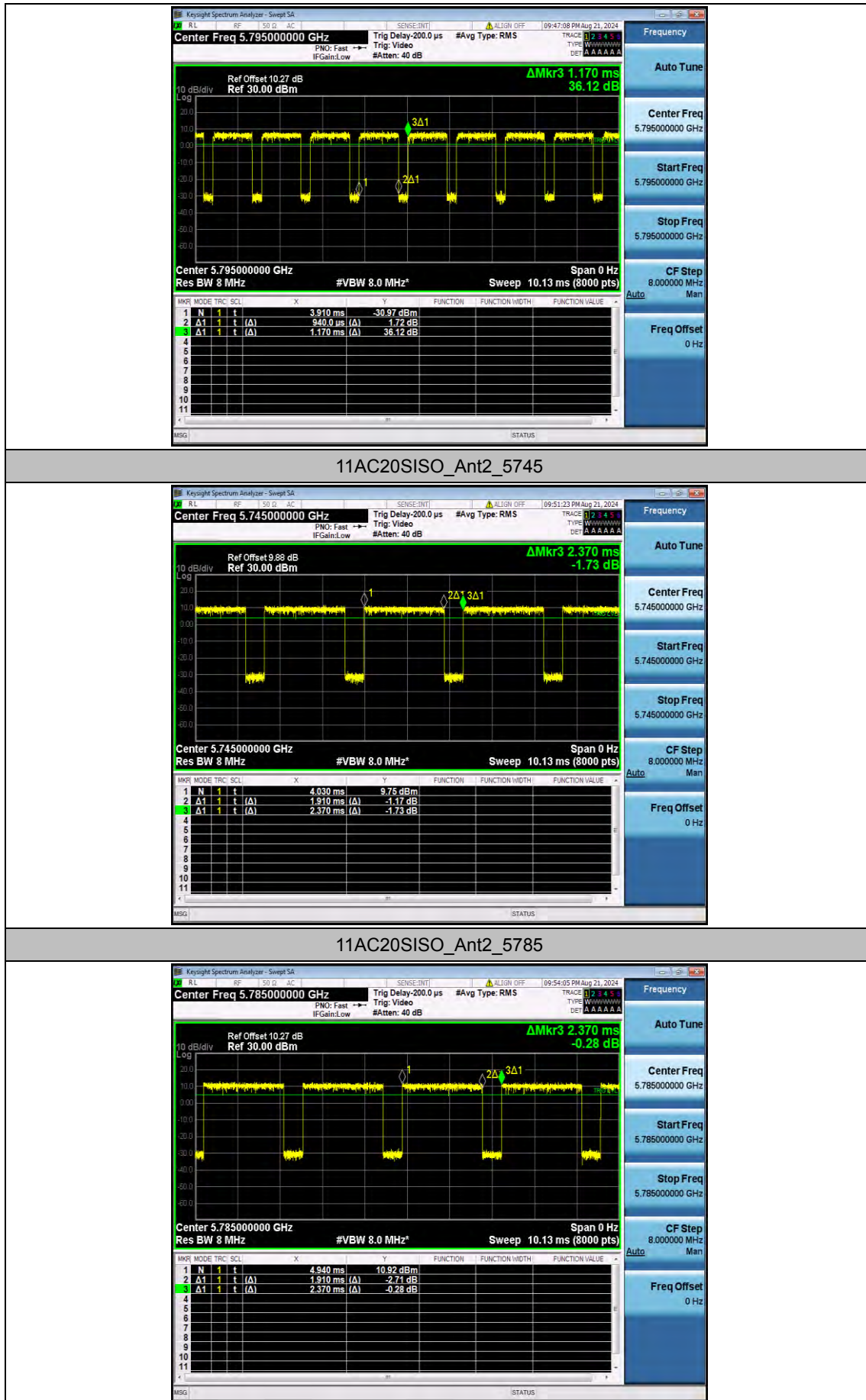
11N20SISO_Ant2_5825



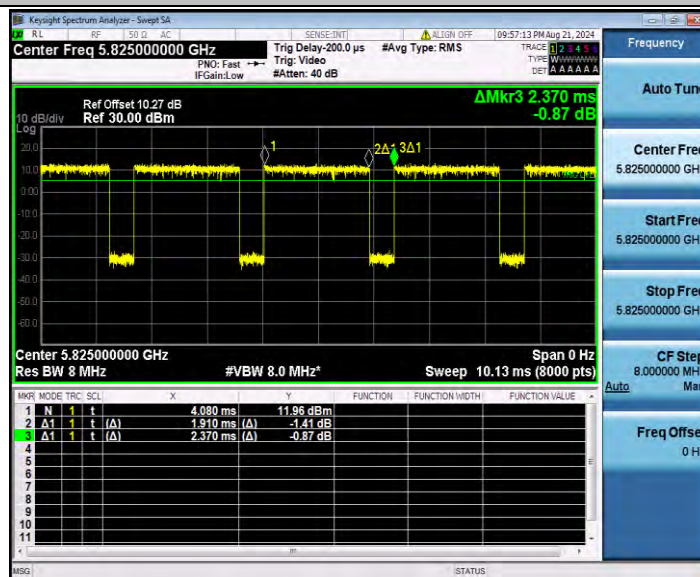
11N40SISO_Ant2_5755



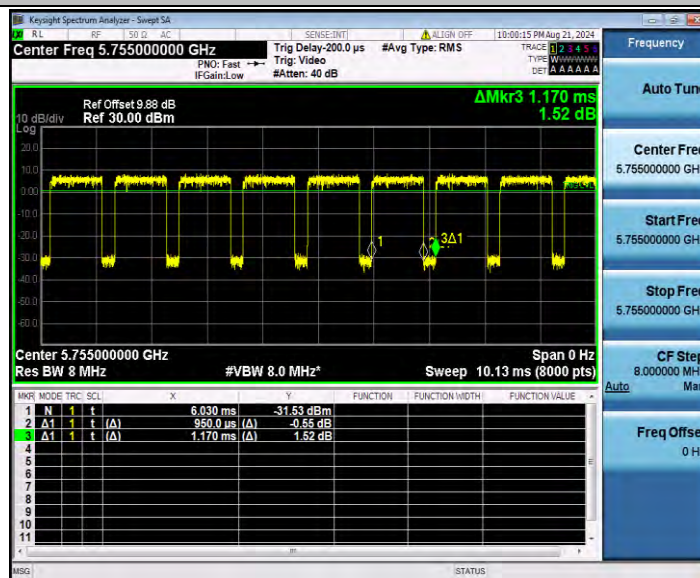
11N40SISO_Ant2_5795



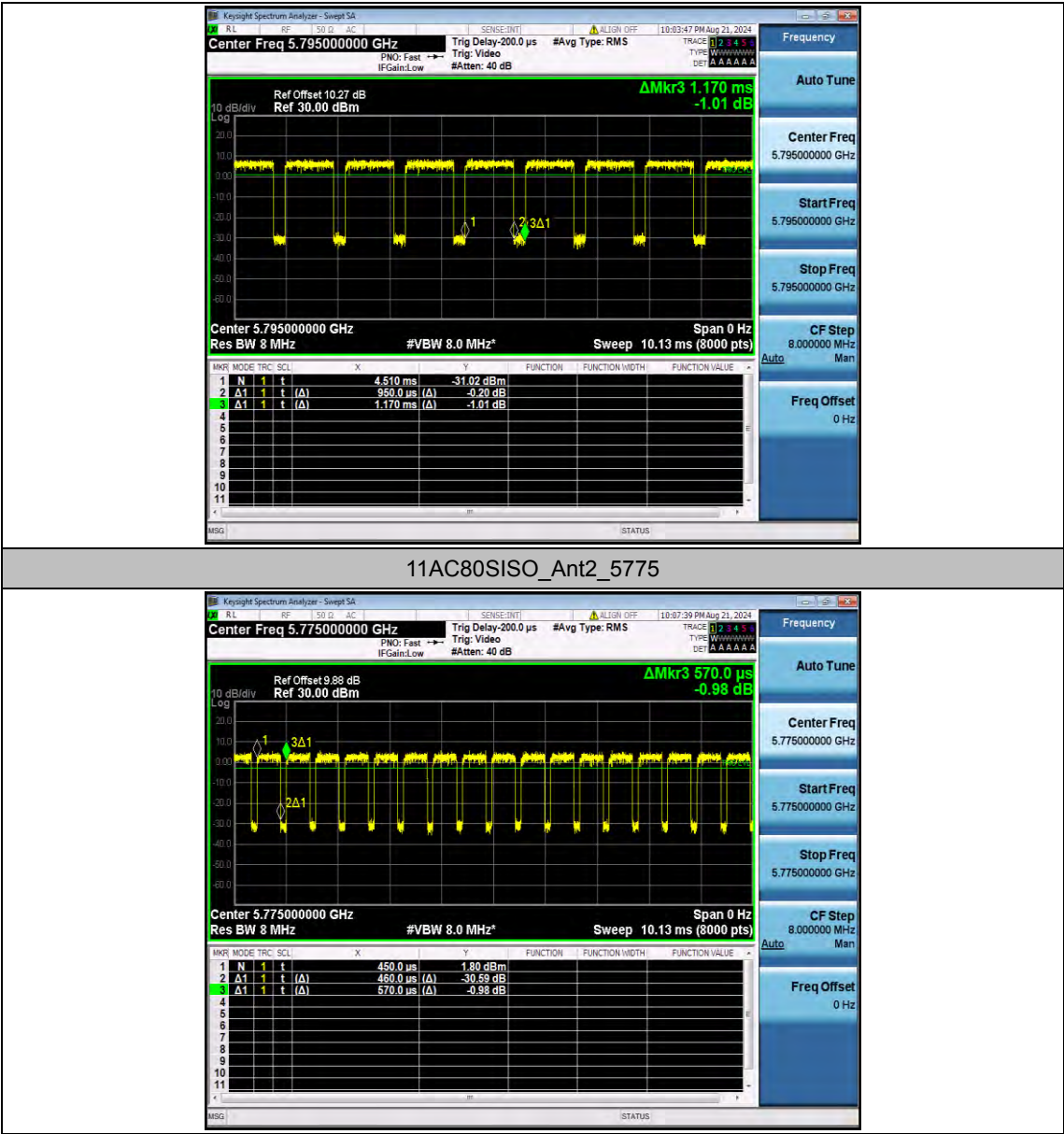
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



Appendix E.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Powert [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5745	11.05	80.71	0.93	11.98	≤30.00	PASS
		5785	11.97	80.71	0.93	12.90	≤30.00	PASS
		5825	12.40	81.03	0.91	13.31	≤30.00	PASS
11N20SISO	Ant2	5745	10.86	80.93	0.92	11.78	≤30.00	PASS
		5785	11.61	80.93	0.92	12.53	≤30.00	PASS
		5825	12.21	80.93	0.92	13.13	≤30.00	PASS
11N40SISO	Ant2	5755	11.17	80.34	0.95	12.12	≤30.00	PASS
		5795	11.68	80.34	0.95	12.63	≤30.00	PASS
11AC20SISO	Ant2	5745	10.63	80.59	0.94	11.57	≤30.00	PASS
		5785	11.93	80.59	0.94	12.87	≤30.00	PASS
		5825	12.39	80.59	0.94	13.33	≤30.00	PASS
11AC40SISO	Ant2	5755	11.19	81.20	0.90	12.09	≤30.00	PASS
		5795	11.72	81.20	0.90	12.62	≤30.00	PASS
11AC80SISO	Ant2	5775	11.38	80.70	0.93	12.31	≤30.00	PASS

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5745	-0.90	≤30.00	PASS
		5785	0.19	≤30.00	PASS
		5825	0.25	≤30.00	PASS
11N20SISO	Ant2	5745	-1.11	≤30.00	PASS
		5785	-0.13	≤30.00	PASS
		5825	0.12	≤30.00	PASS
11N40SISO	Ant2	5755	-4.22	≤30.00	PASS
		5795	-3.79	≤30.00	PASS
11AC20SISO	Ant2	5745	-1.26	≤30.00	PASS
		5785	-0.15	≤30.00	PASS
		5825	0.07	≤30.00	PASS
11AC40SISO	Ant2	5755	-4.54	≤30.00	PASS
		5795	-3.81	≤30.00	PASS
11AC80SISO	Ant2	5775	-7.81	≤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_Ant2_5745



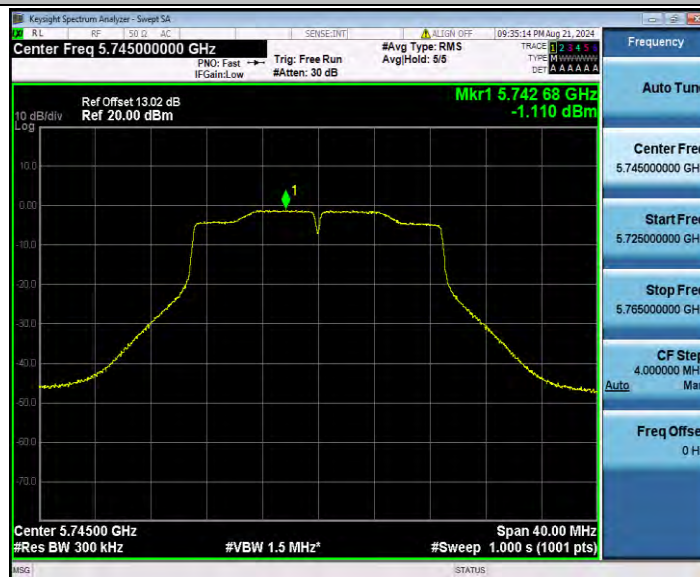
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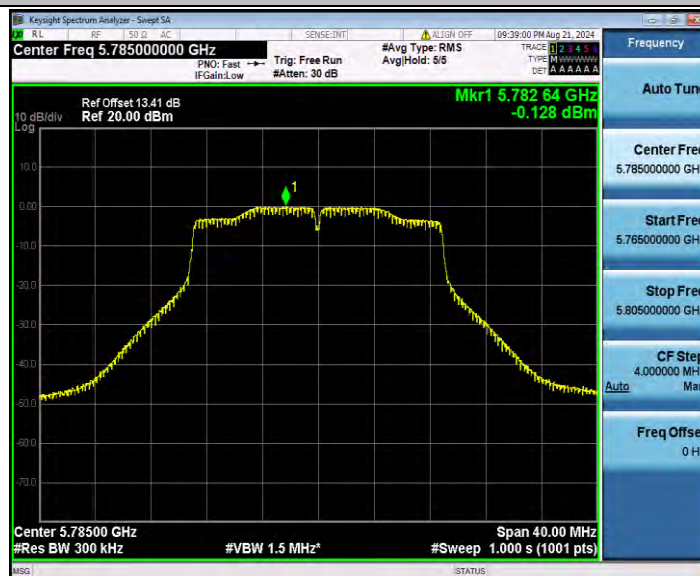
11A_Ant2_5825



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



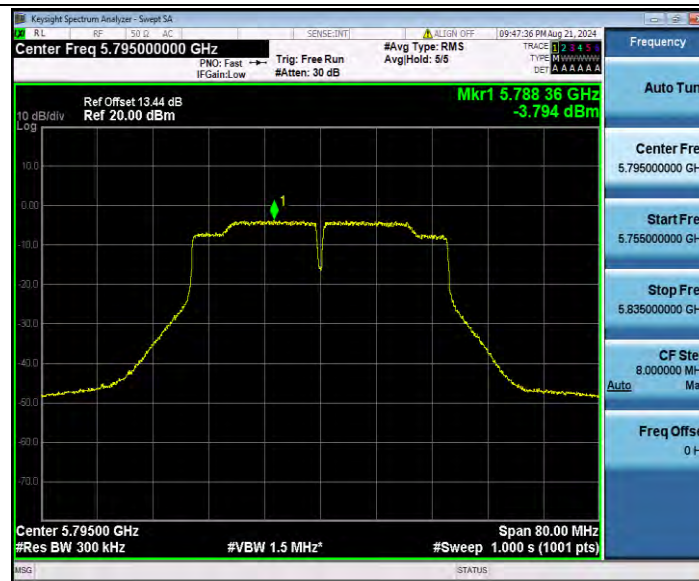
11N20SISO_Ant2_5825



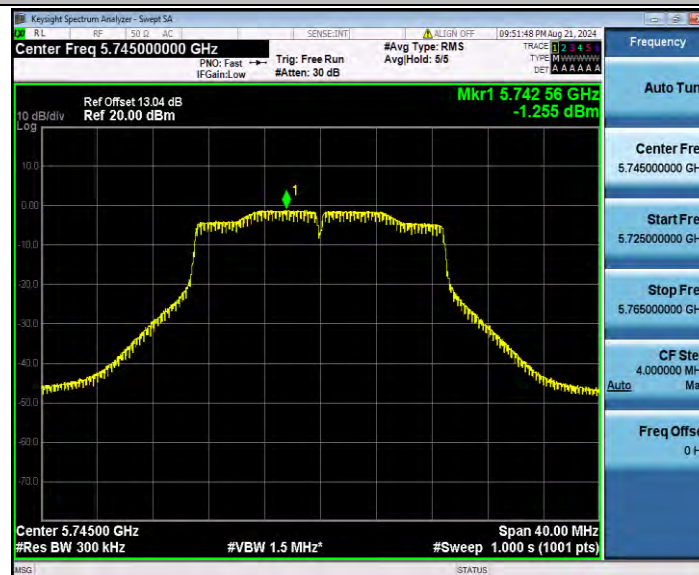
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11N40SISO_Ant2_5795



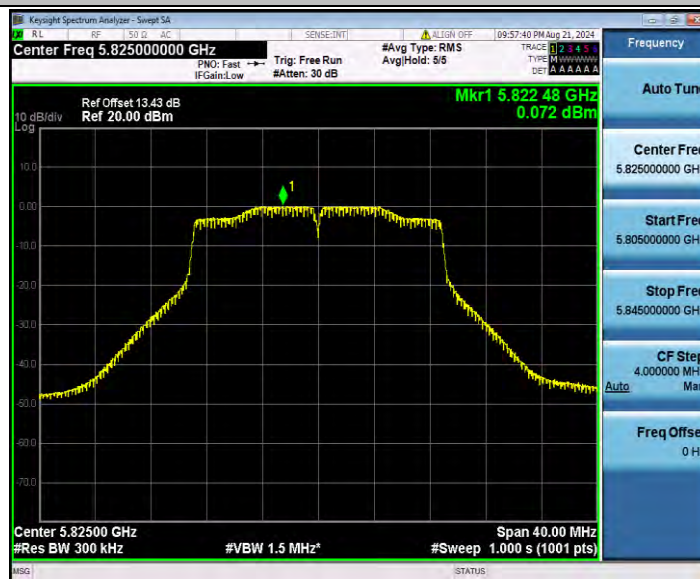
11AC20SISO_Ant2_5745



11AC20SISO_Ant2_5785



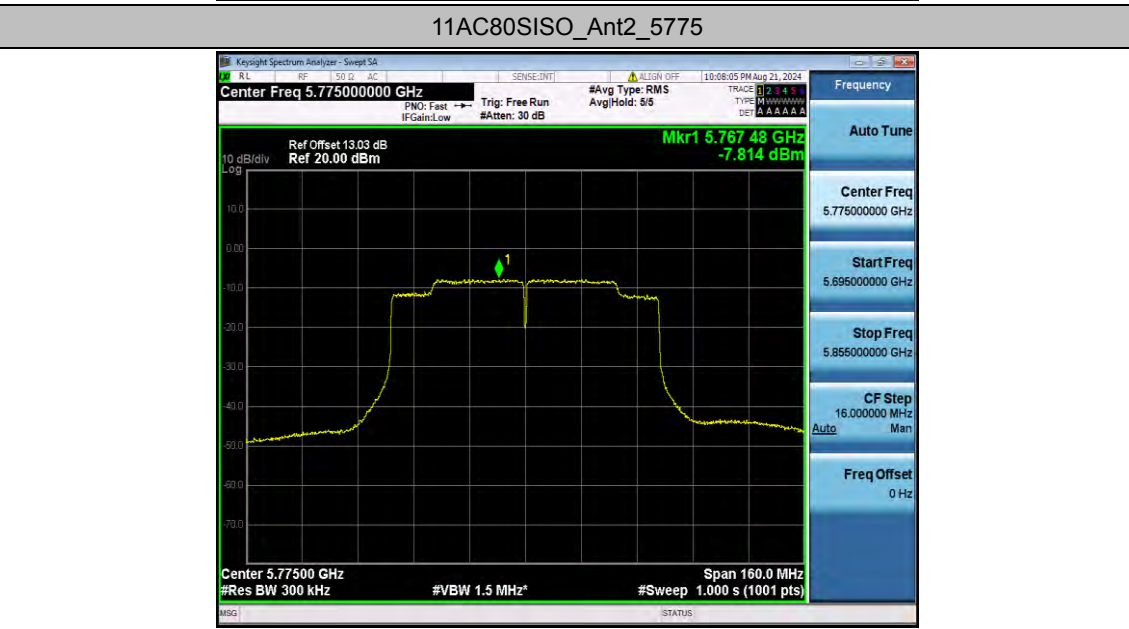
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



Appendix E.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	-40.08	≤-26.96	PASS
				5700~5720	-31.54	≤14.89	PASS
				5720~5725	-33.11	≤15.82	PASS
				5760~5650	-39.27	≤-27	PASS
		High	5825	5850~5855	-38.15	≤16.03	PASS
				5855~5875	-37.69	≤11.00	PASS
				5875~5925	-39.32	≤-26.71	PASS
				5925~5935	-38.48	≤-27	PASS
11N20SI SO	Ant2	Low	5745	5650~5700	-39.85	≤-26.45	PASS
				5700~5720	-34.49	≤13.21	PASS
				5720~5725	-32.12	≤16.34	PASS
				5760~5650	-39.4	≤-27	PASS
		High	5825	5850~5855	-35.73	≤18.19	PASS
				5855~5875	-37.98	≤10.25	PASS
				5875~5925	-39.25	≤-26.91	PASS
				5925~5935	-37.89	≤-27	PASS
11N40SI SO	Ant2	Low	5755	5650~5700	-39.64	≤-26.80	PASS
				5700~5720	-32.62	≤11.27	PASS
				5720~5725	-29.6	≤17.58	PASS
				5780~5650	-39.75	≤-27	PASS
		High	5795	5850~5855	-38.65	≤16.79	PASS
				5855~5875	-39.32	≤10.02	PASS
				5875~5925	-40.52	≤-26.95	PASS
				5925~5935	-38.65	≤-27	PASS
11AC20S ISO	Ant2	Low	5745	5650~5700	-38.63	≤-25.51	PASS
				5700~5720	-32.34	≤14.79	PASS
				5720~5725	-31.96	≤17.65	PASS
				5760~5650	-38.67	≤-27	PASS
		High	5825	5850~5855	-37.58	≤16.03	PASS
				5855~5875	-38.26	≤10.10	PASS
				5875~5925	-39.19	≤-26.41	PASS
				5925~5935	-38.26	≤-27	PASS
11AC40S ISO	Ant2	Low	5755	5650~5700	-39.99	≤-26.80	PASS
				5700~5720	-30.59	≤15.09	PASS
				5720~5725	-28.94	≤16.35	PASS
				5780~5650	-38.73	≤-27	PASS

		High	5795	5850~5855	-38.36	≤ 16.03	PASS
				5855~5875	-37.89	≤ 10.43	PASS
				5875~5925	-38.89	≤ -26.34	PASS
				5925~5935	-38.99	≤ -27	PASS
11AC80S ISO	Ant2	Low	5775	5650~5700	-37.78	≤ -26.91	PASS
				5700~5720	-34.26	≤ 10.27	PASS
				5720~5725	-33.77	≤ 15.65	PASS
				5800~5650	-37.76	≤ -27	PASS
		High	5775	5850~5855	-32.64	≤ 15.84	PASS
				5855~5875	-36.19	≤ 10.71	PASS
				5875~5925	-38.84	≤ -26.87	PASS
				5925~5935	-39.08	≤ -27	PASS

Test Graphs B4

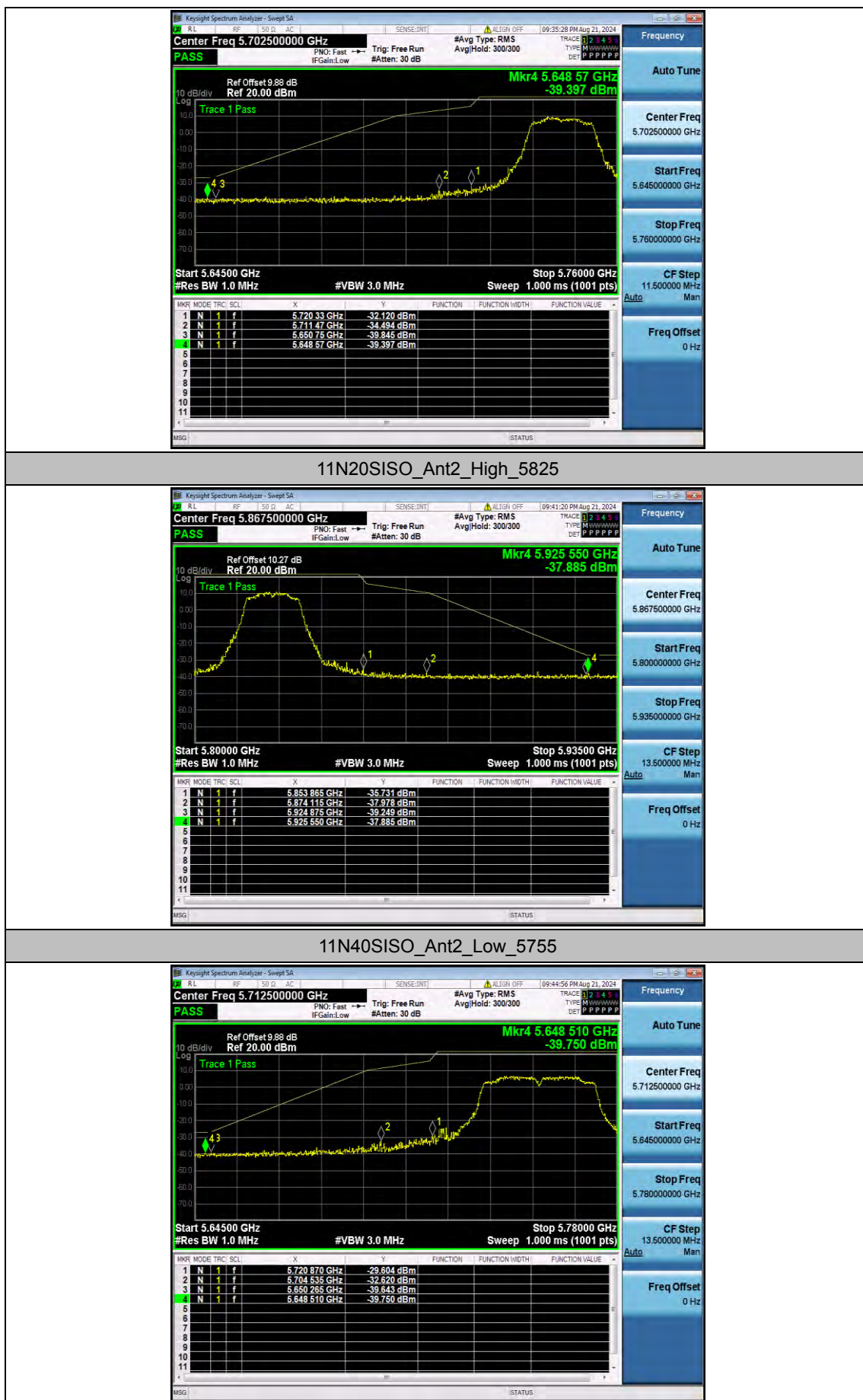
11A_Ant2_Low_5745



11A_Ant2_High_5825



11N20SISO_Ant2_Low_5745



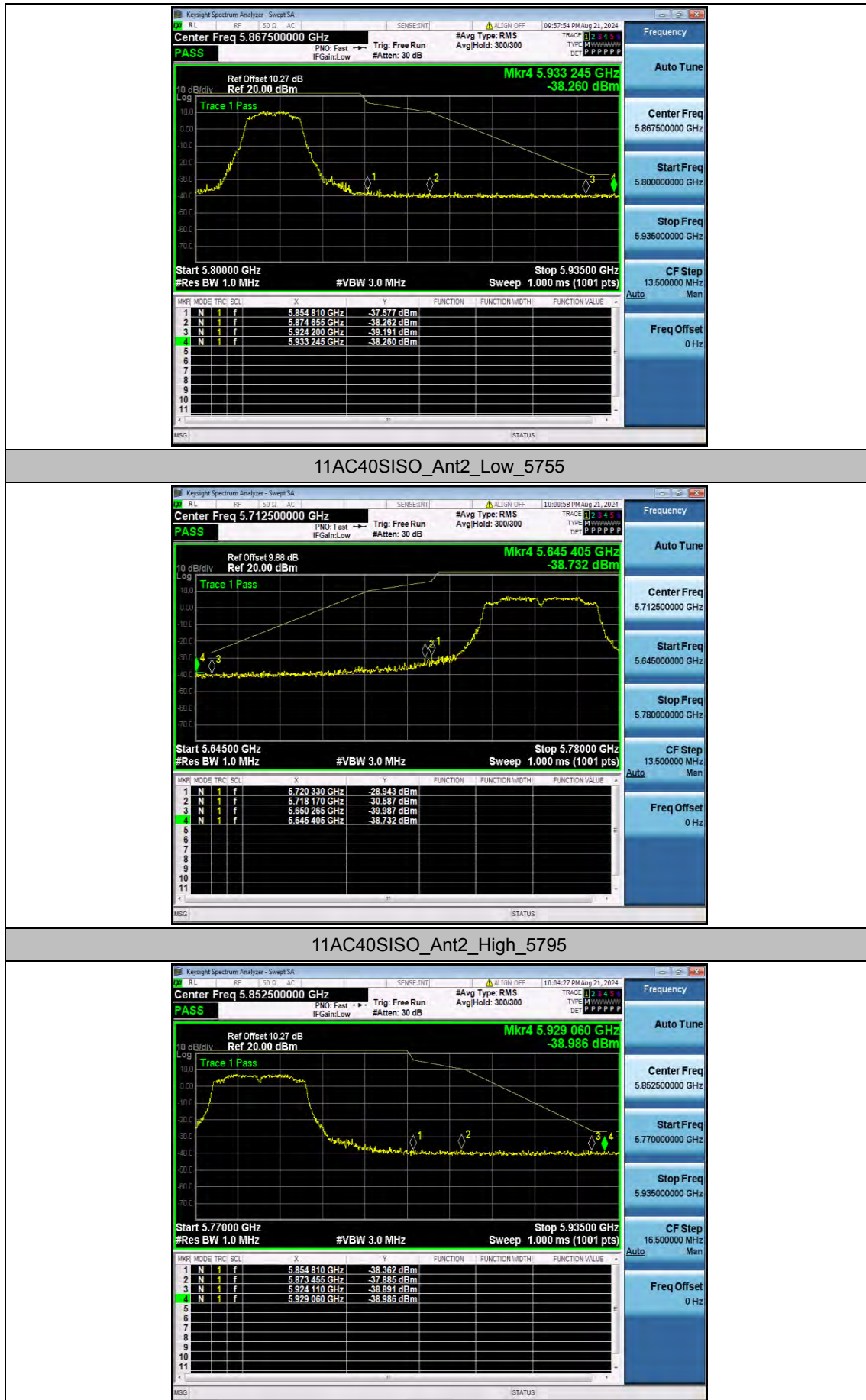
11N40SISO_Ant2_High_5795



11AC20SISO_Ant2_Low_5745



11AC20SISO_Ant2_High_5825



11AC80SISO_Ant2_Low_5775



11AC80SISO_Ant2_High_5775

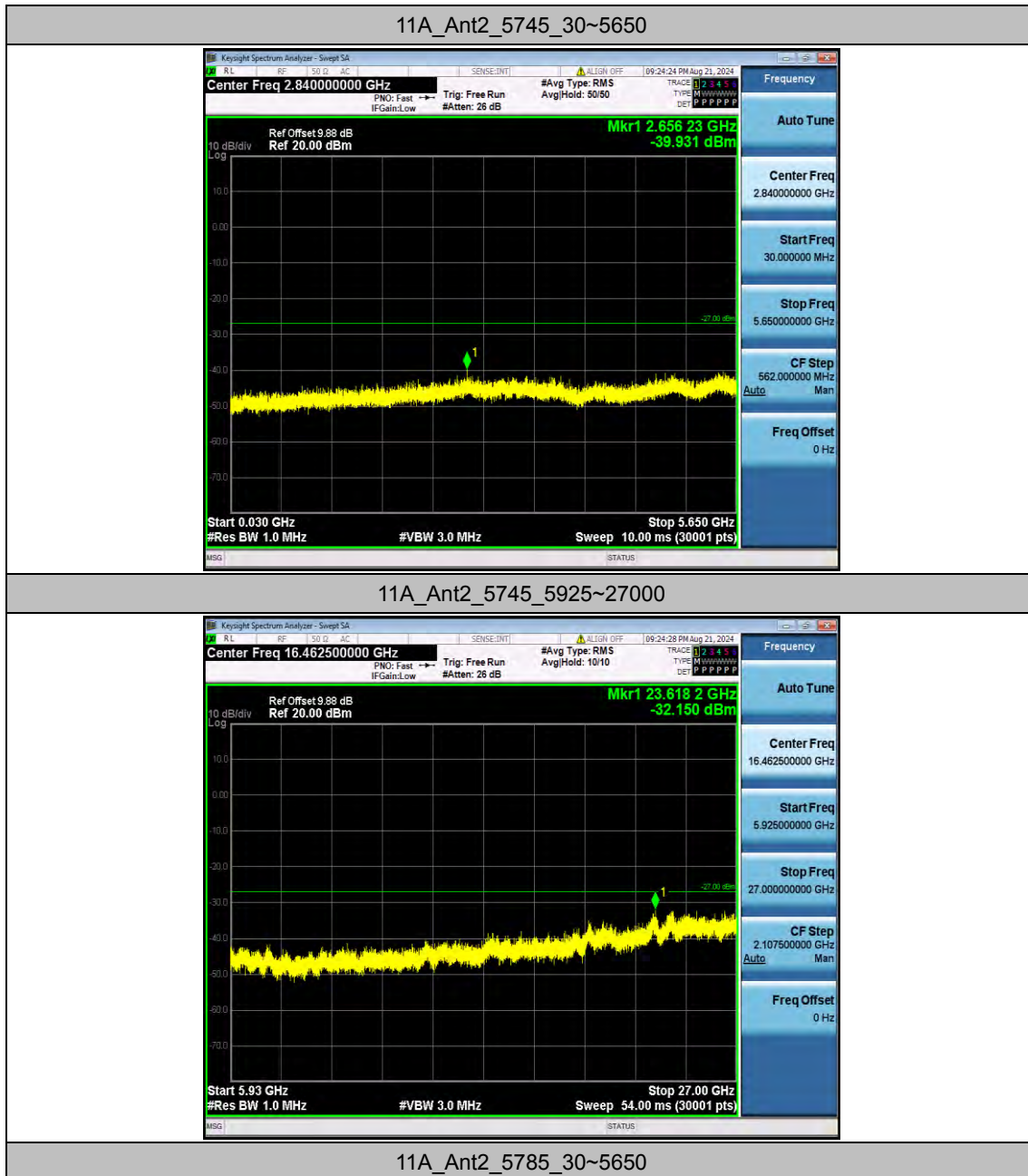


Appendix E.7: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5745	30~5650	2656.23	-39.93	≤-27	PASS
			5925~27000	23618.17	-32.15	≤-27	PASS
		5785	30~5650	5397.66	-39.91	≤-27	PASS
			5925~27000	24252.52	-31.7	≤-27	PASS
		5825	30~5650	5462.29	-39.93	≤-27	PASS
			5925~27000	25028.79	-31.83	≤-27	PASS
11N20SISO	Ant2	5745	30~5650	5541.53	-40.16	≤-27	PASS
			5925~27000	25994.72	-32.05	≤-27	PASS
		5785	30~5650	5453.11	-40.2	≤-27	PASS
			5925~27000	24326.29	-31.91	≤-27	PASS
		5825	30~5650	5493.95	-39.46	≤-27	PASS
			5925~27000	24884.07	-31.83	≤-27	PASS
11N40SISO	Ant2	5755	30~5650	2771.44	-40.13	≤-27	PASS
			5925~27000	25047.05	-31.17	≤-27	PASS
		5795	30~5650	5499.76	-39.92	≤-27	PASS
			5925~27000	24983.83	-31.5	≤-27	PASS
11AC20SISO	Ant2	5745	30~5650	5402.16	-40.38	≤-27	PASS
			5925~27000	24820.14	-32.25	≤-27	PASS
		5785	30~5650	5424.83	-39.9	≤-27	PASS
			5925~27000	25533.88	-31.63	≤-27	PASS
		5825	30~5650	5432.69	-40.1	≤-27	PASS
			5925~27000	24860.89	-31.53	≤-27	PASS
11AC40SISO	Ant2	5755	30~5650	5460.98	-39.34	≤-27	PASS
			5925~27000	26712.68	-32.08	≤-27	PASS
		5795	30~5650	5484.21	-40.03	≤-27	PASS
			5925~27000	25604.84	-31.53	≤-27	PASS
11AC80SISO	Ant2	5775	30~5650	5646.07	-39.29	≤-27	PASS
			5925~27000	26837.72	-31.15	≤-27	PASS

Test Graphs





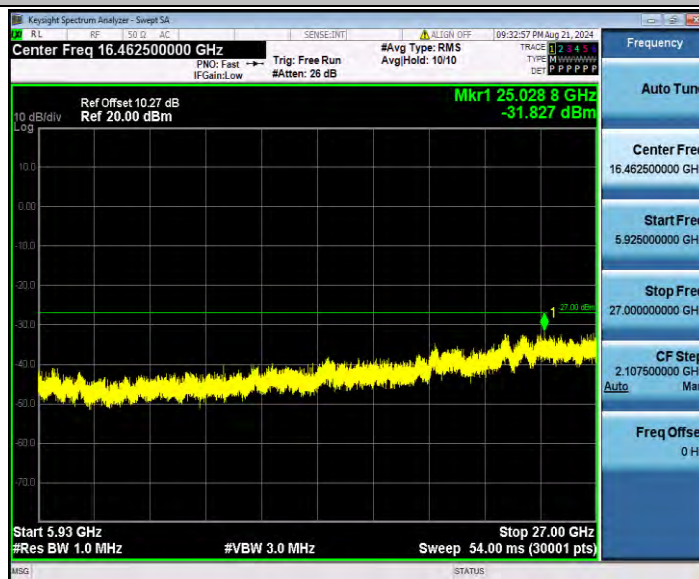
11A_Ant2_5785_5925~27000



11A_Ant2_5825_30~5650



11A_Ant2_5825_5925~27000



11N20SISO_Ant2_5745_30~5650



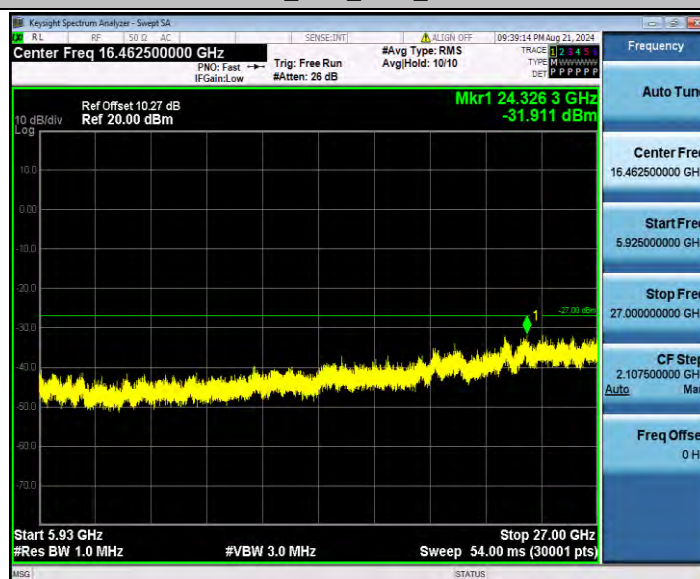
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11N20SISO_Ant2_5785_30~5650



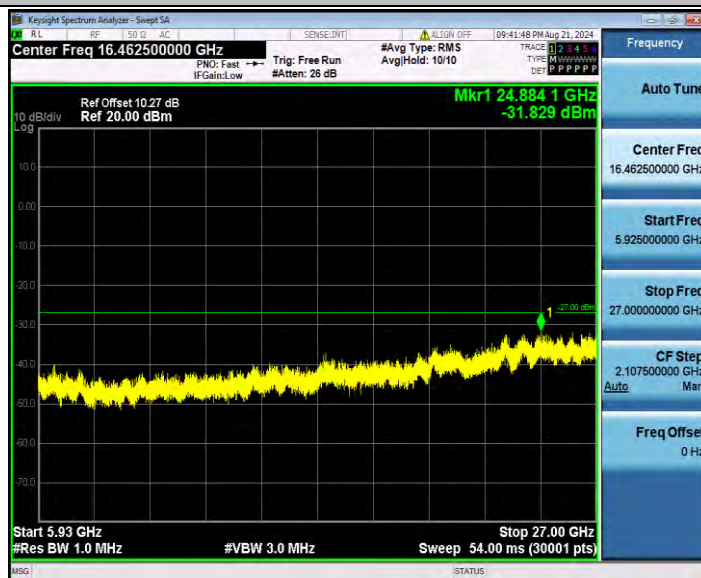
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11N20SISO_Ant2_5825_30~5650



11N20SISO_Ant2_5825_5925~27000



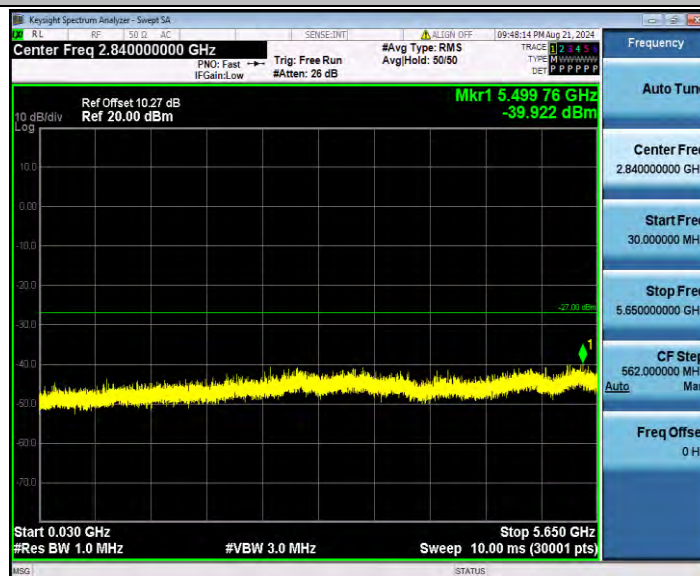
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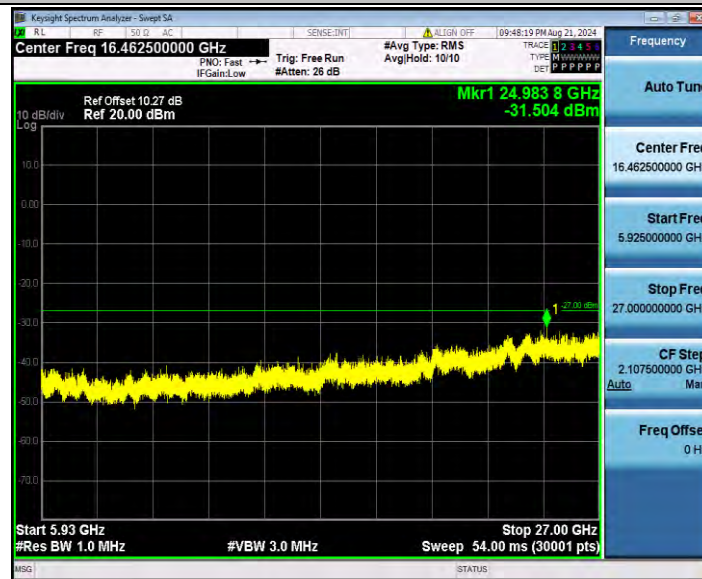
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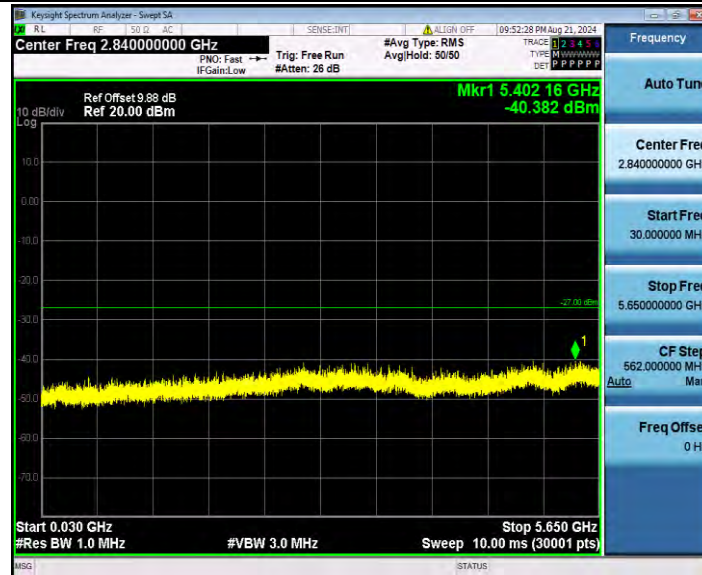
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11N40SISO_Ant2_5795_5925~27000



11AC20SISO_Ant2_5745_30~5650



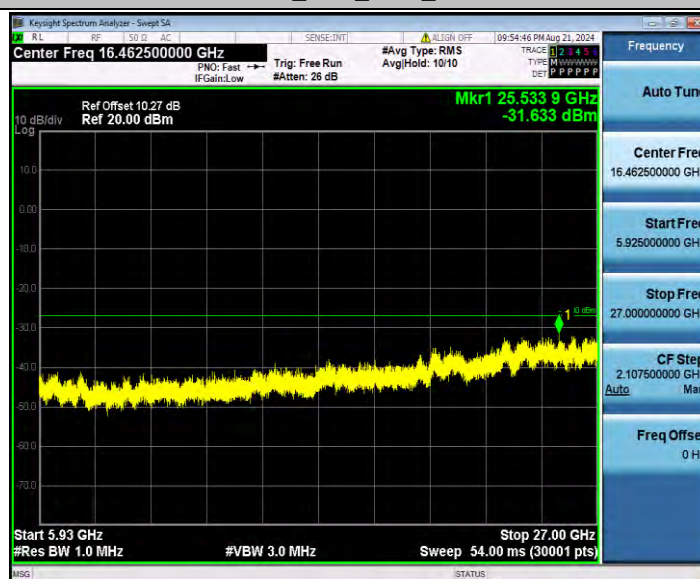
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11AC20SISO_Ant2_5785_30~5650



11AC20SISO_Ant2_5785_5925~27000



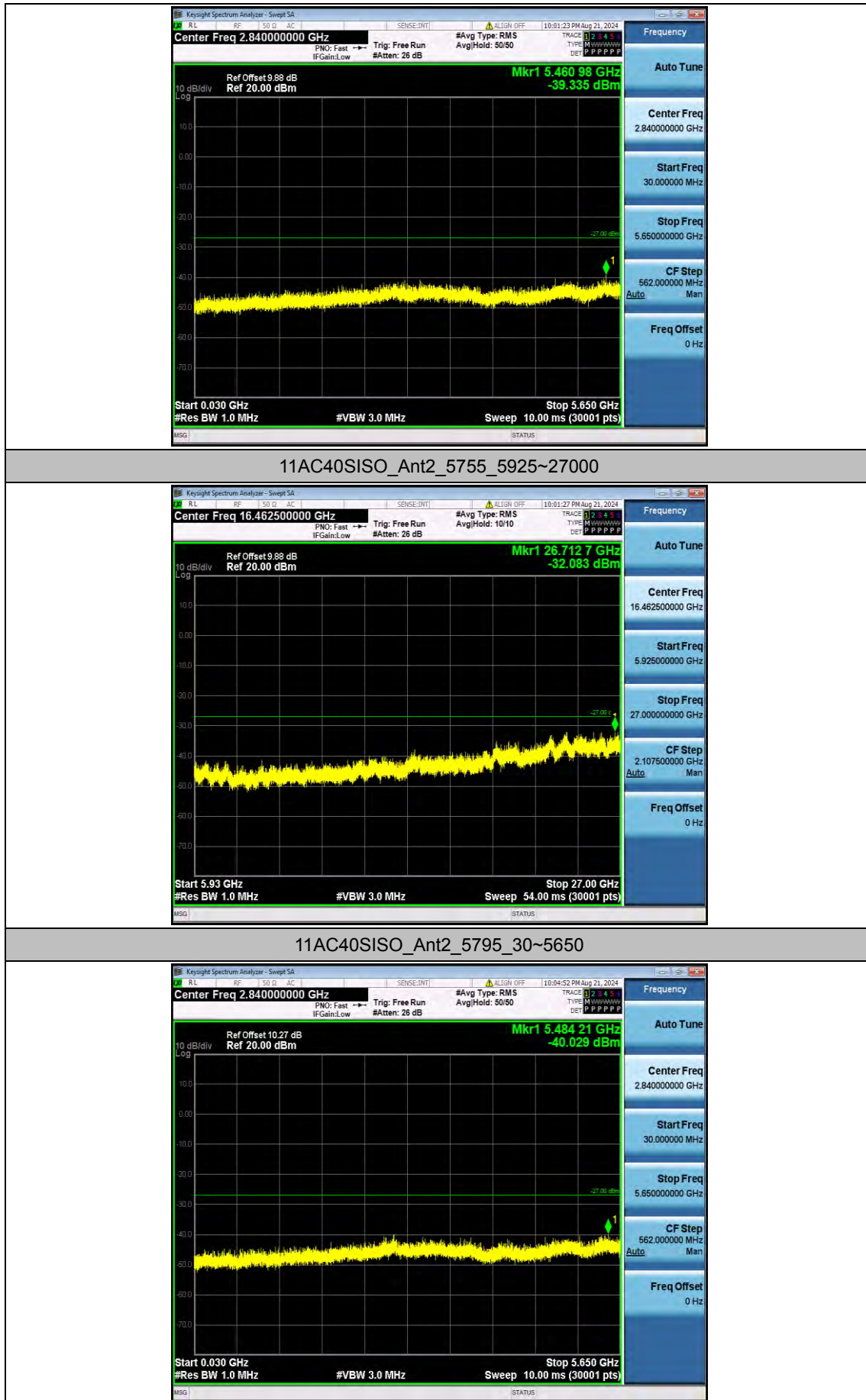
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11AC20SISO_Ant2_5825_5925~27000



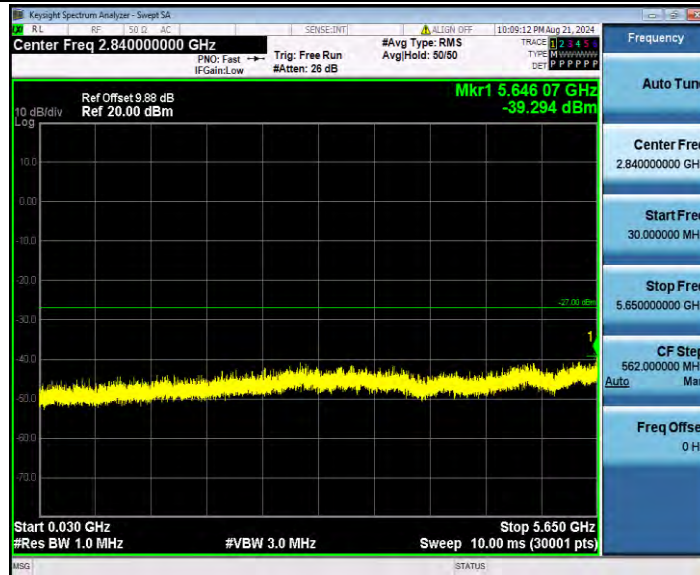
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11AC40SISO_Ant2_5795_5925~27000



11AC80SISO_Ant2_5775_30~5650



11AC80SISO_Ant2_5775_5925~27000

