

Case No. : <u>CTA24081600404</u>	
Ambient Condition: <u>22</u> °C, <u>51</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.8.21</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	Ant1	5745	15.040	5737.480	5752.520	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	15.080	5817.400	5832.480	0.5	PASS
11N20SISO	Ant1	5745	15.040	5737.480	5752.520	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11N40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	15.040	5737.480	5752.520	0.5	PASS
		5785	15.000	5777.520	5792.520	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11AC40SISO	Ant1	5755	33.840	5738.680	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.040	5737.400	5812.440	0.5	PASS

Test Graphs B4

11A_Ant1_5745



11A_Ant1_5785



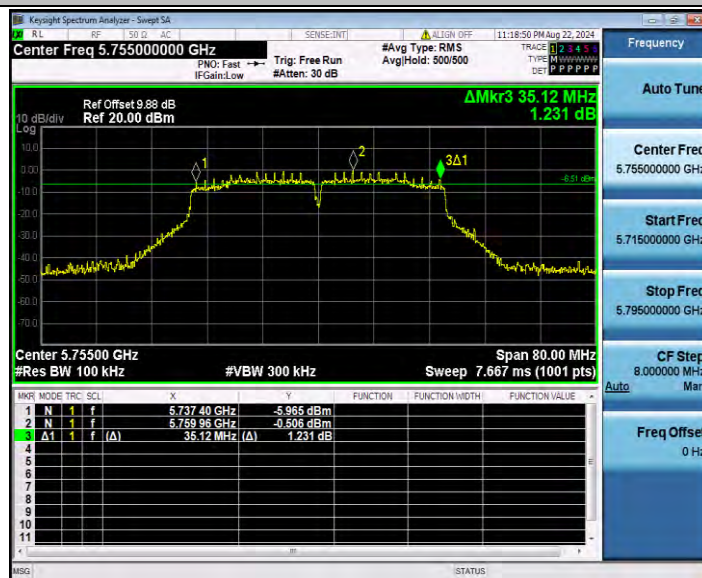
11A_Ant1_5825



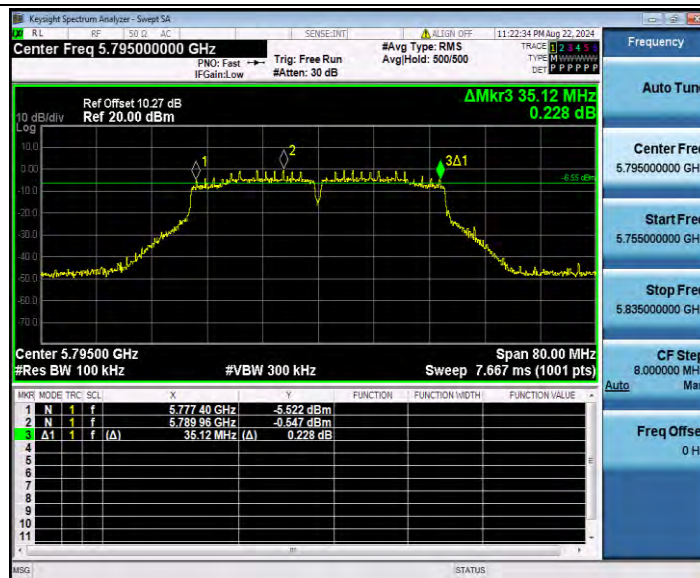
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



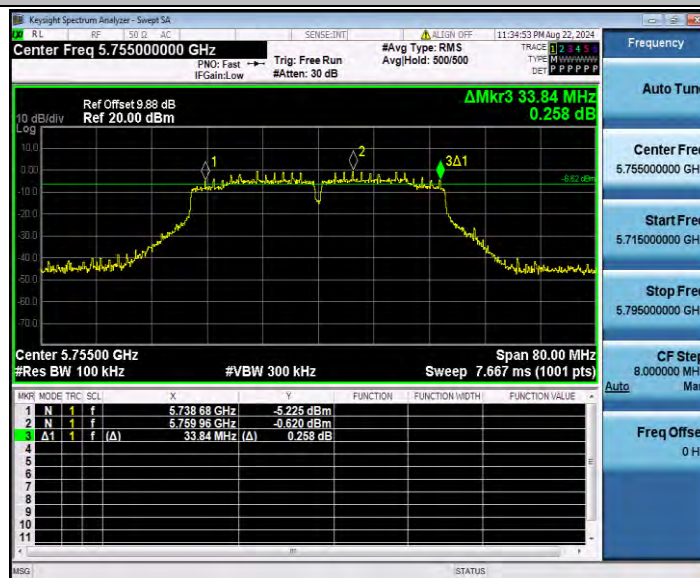
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



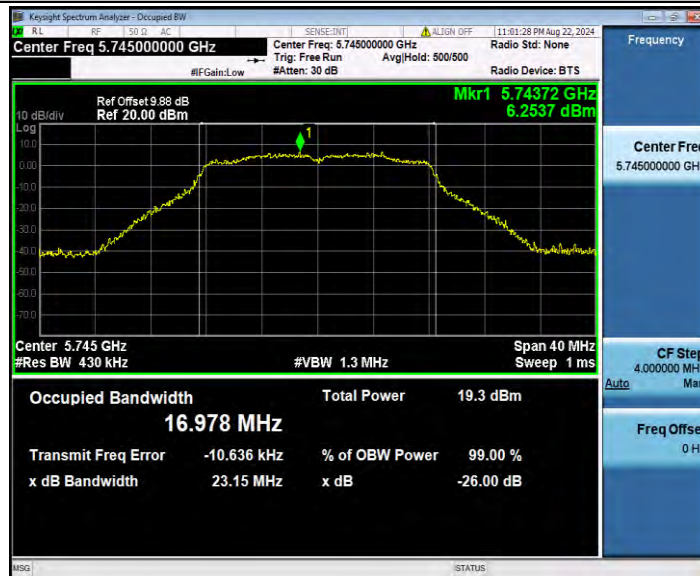
Appendix E.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.978	5736.5004	5753.4784	---	---
		5785	17.013	5776.4803	5793.4933	---	---
		5825	16.923	5816.5161	5833.4391	---	---
11N20SISO	Ant1	5745	18.001	5735.9879	5753.9889	---	---
		5785	17.981	5776.0211	5794.0021	---	---
		5825	17.966	5816.0053	5833.9713	---	---
11N40SISO	Ant1	5755	36.252	5736.8553	5773.1073	---	---
		5795	36.233	5776.9240	5813.1570	---	---
11AC20SISO	Ant1	5745	17.979	5736.0018	5753.9808	---	---
		5785	18.032	5775.9750	5794.0070	---	---
		5825	18.013	5815.9844	5833.9974	---	---
11AC40SISO	Ant1	5755	36.184	5736.9318	5773.1158	---	---
		5795	36.223	5776.9269	5813.1499	---	---
11AC80SISO	Ant1	5775	75.071	5737.6310	5812.7020	---	---

Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



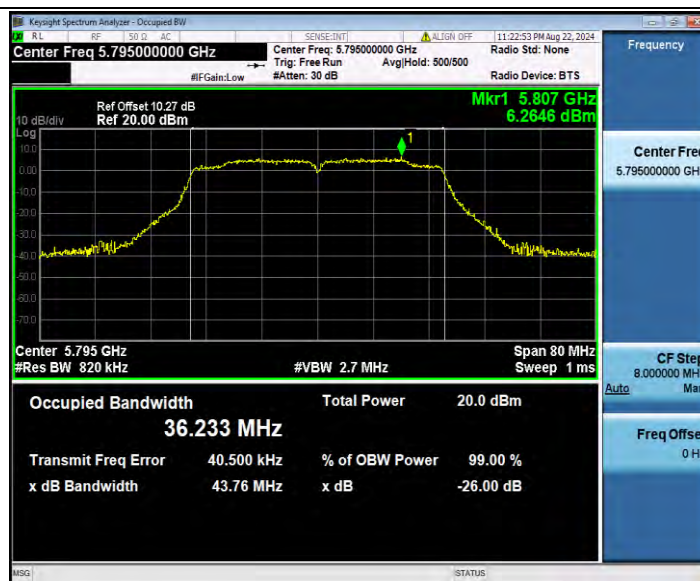
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



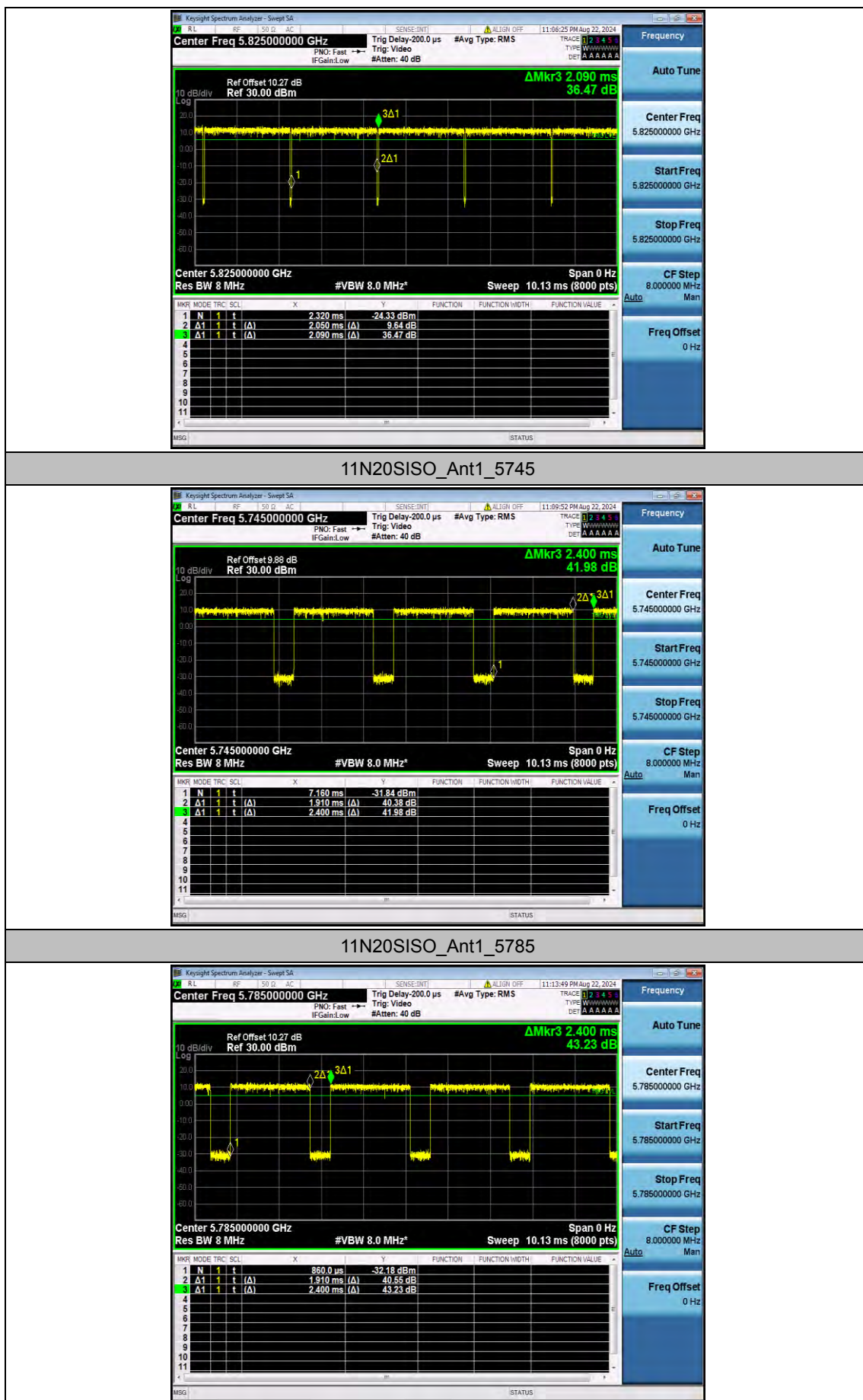
11AC40SISO_Ant1_5795



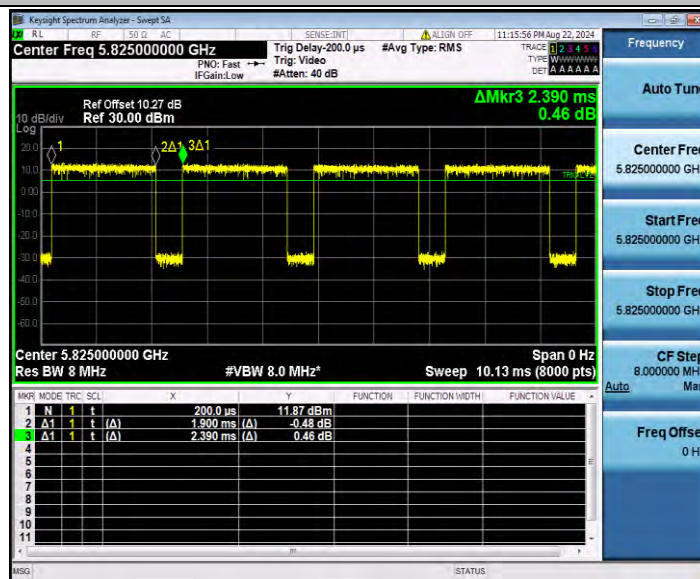
Appendix E.3: Duty Cycle

Test Result

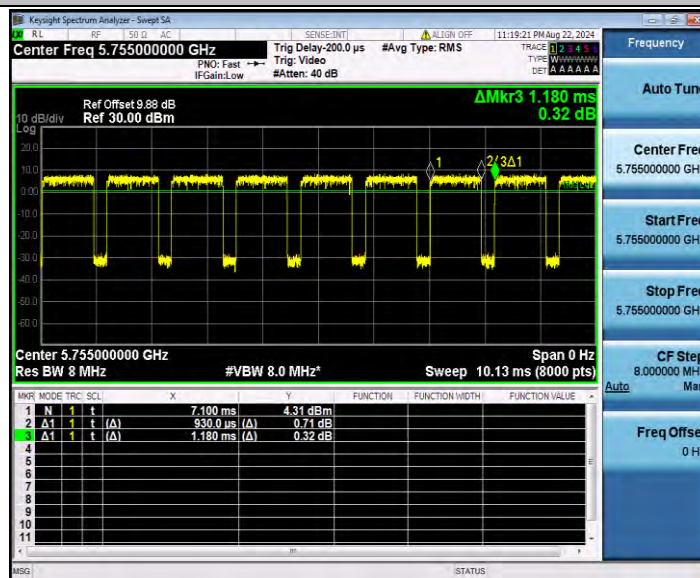
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	2.05	2.08	98.56	0.06	0.49
		5785	2.05	2.09	98.09	0.08	0.49
		5825	2.05	2.09	98.09	0.08	0.49
11N20SISO	Ant1	5745	1.91	2.40	79.58	0.99	0.52
		5785	1.91	2.40	79.58	0.99	0.52
		5825	1.90	2.39	79.50	1.00	0.53
11N40SISO	Ant1	5755	0.93	1.18	78.81	1.03	1.08
		5795	0.93	1.17	79.49	1.00	1.08
11AC20SISO	Ant1	5745	1.91	2.40	79.58	0.99	0.52
		5785	1.92	2.40	80.00	0.97	0.52
		5825	1.92	2.40	80.00	0.97	0.52
11AC40SISO	Ant1	5755	0.94	1.18	79.66	0.99	1.06
		5795	0.94	1.18	79.66	0.99	1.06
11AC80SISO	Ant1	5775	0.46	0.58	79.31	1.01	2.17



11N20SISO_Ant1_5825



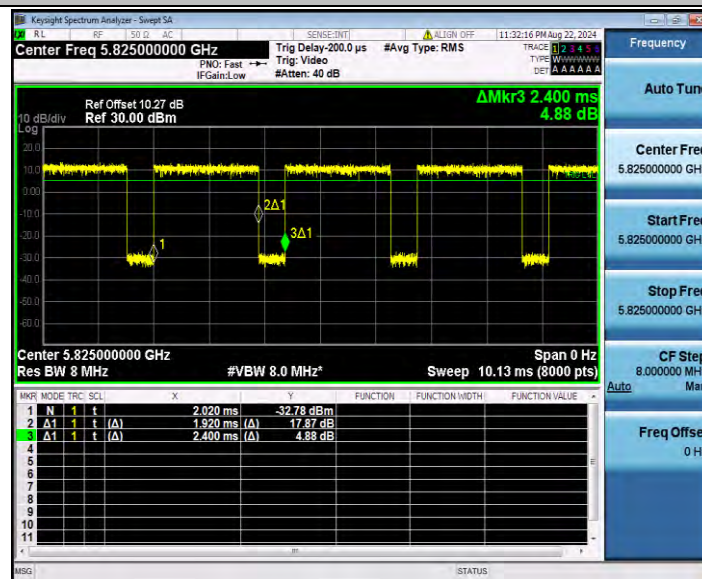
11N40SISO_Ant1_5755



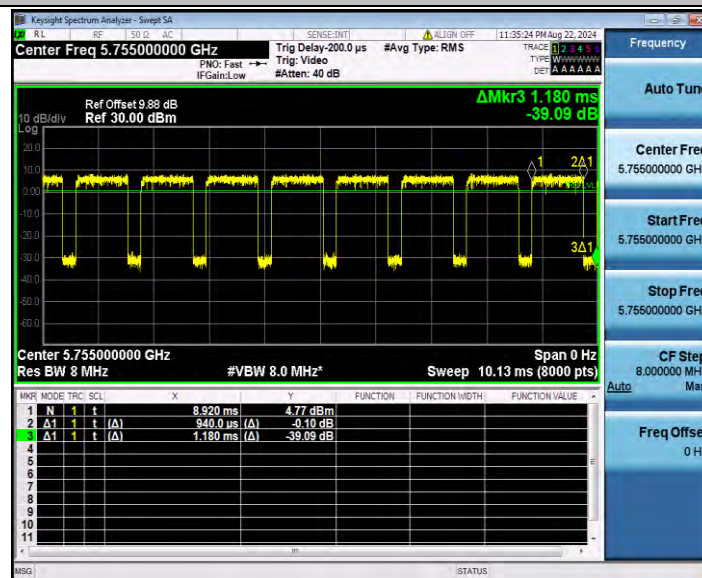
11N40SISO_Ant1_5795



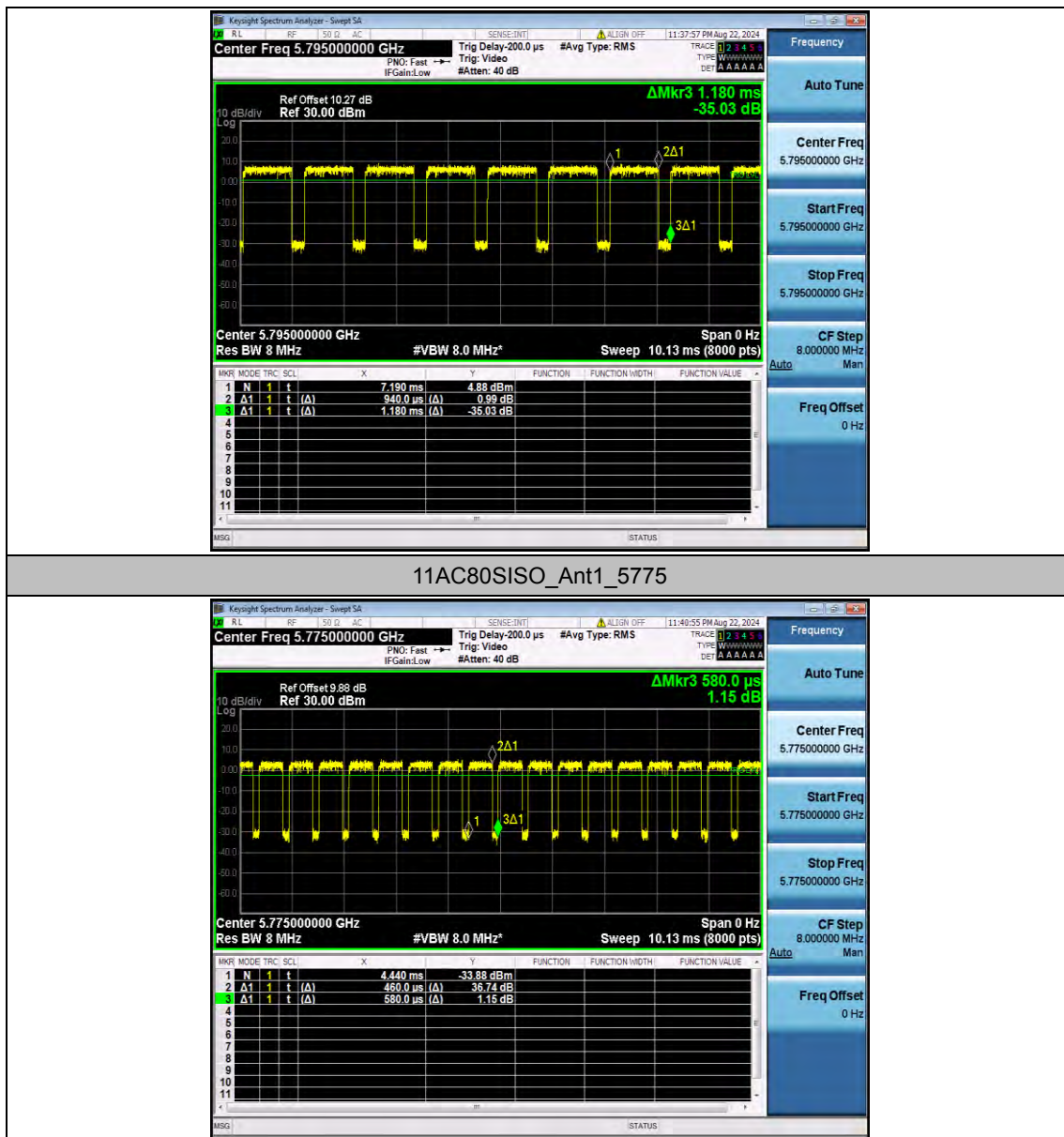
11AC20SISO_Ant1_5825



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 [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	12.38	98.56	0.06	12.44	≤30.00	PASS
		5785	13.08	98.09	0.08	13.16	≤30.00	PASS
		5825	13.36	98.09	0.08	13.44	≤30.00	PASS
11N20SISO	Ant1	5745	11.08	79.58	0.99	12.07	≤30.00	PASS
		5785	11.59	79.58	0.99	12.58	≤30.00	PASS
		5825	12.33	79.50	1.00	13.33	≤30.00	PASS
11N40SISO	Ant1	5755	11.26	78.81	1.03	12.29	≤30.00	PASS
		5795	11.49	79.49	1.00	12.49	≤30.00	PASS
11AC20SISO	Ant1	5745	11.15	79.58	0.99	12.14	≤30.00	PASS
		5785	11.86	80.00	0.97	12.83	≤30.00	PASS
		5825	12.14	80.00	0.97	13.11	≤30.00	PASS
11AC40SISO	Ant1	5755	11.14	79.66	0.99	12.13	≤30.00	PASS
		5795	11.29	79.66	0.99	12.28	≤30.00	PASS
11AC80SISO	Ant1	5775	11.23	79.31	1.01	12.24	≤30.00	PASS

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-1.18	≤30.00	PASS
		5785	-0.49	≤30.00	PASS
		5825	-0.16	≤30.00	PASS
11N20SISO	Ant1	5745	-0.78	≤30.00	PASS
		5785	-0.16	≤30.00	PASS
		5825	0.30	≤30.00	PASS
11N40SISO	Ant1	5755	-4.17	≤30.00	PASS
		5795	-3.97	≤30.00	PASS
11AC20SISO	Ant1	5745	-0.63	≤30.00	PASS
		5785	-0.17	≤30.00	PASS
		5825	0.28	≤30.00	PASS
11AC40SISO	Ant1	5755	-4.12	≤30.00	PASS
		5795	-3.99	≤30.00	PASS
11AC80SISO	Ant1	5775	-7.42	≤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



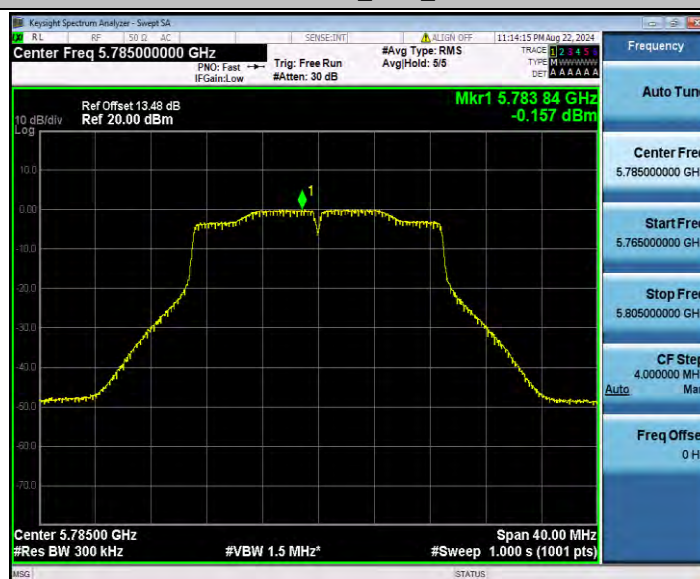
11A_Ant1_5825



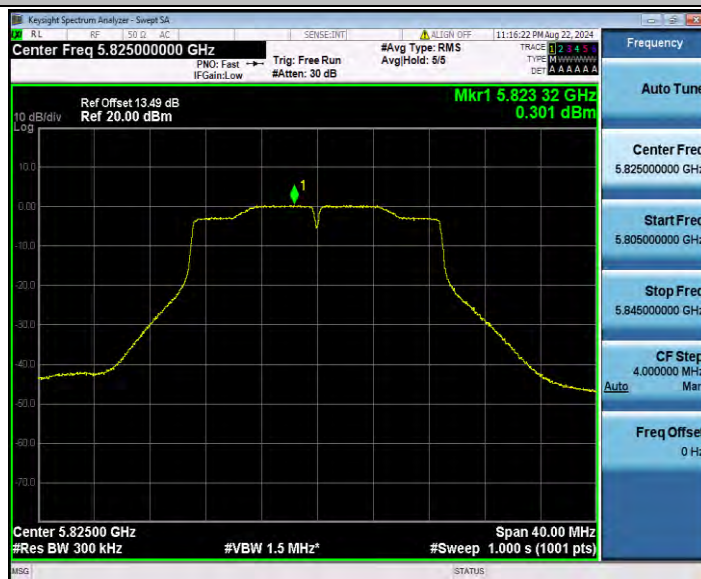
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



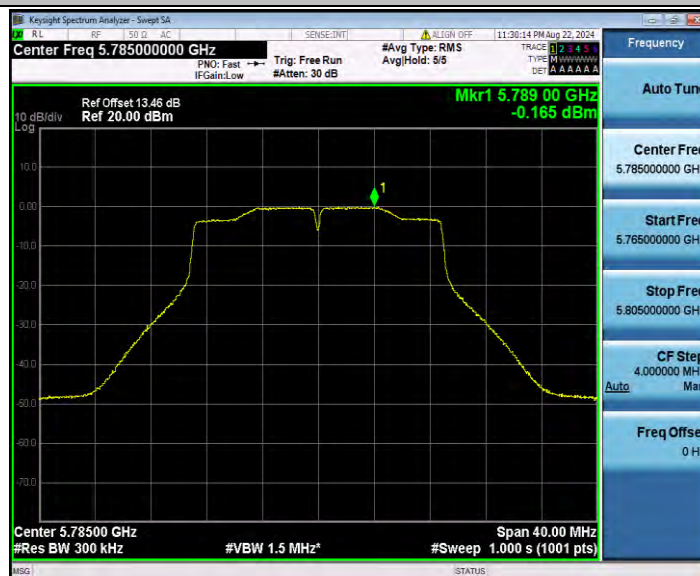
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



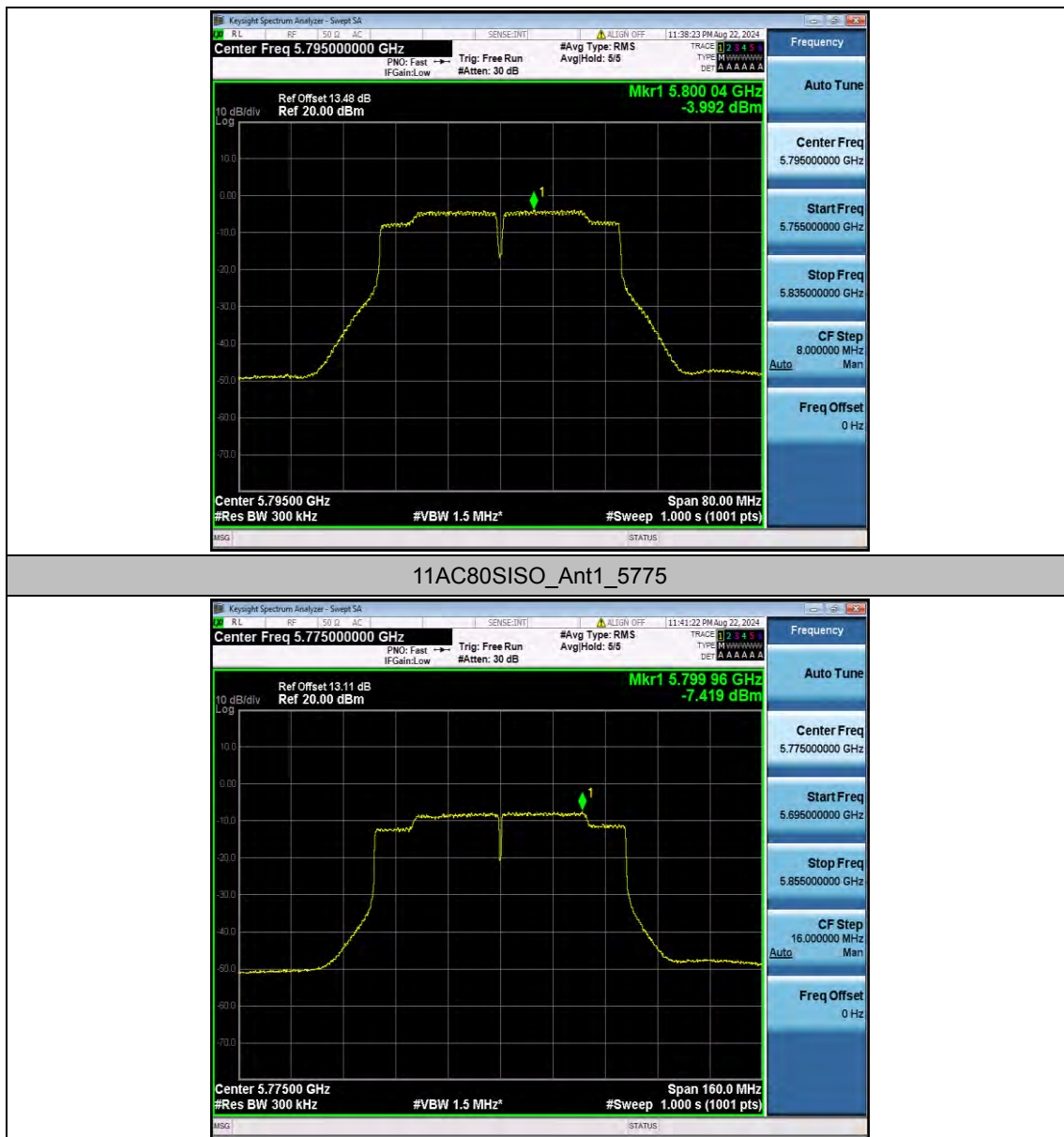
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



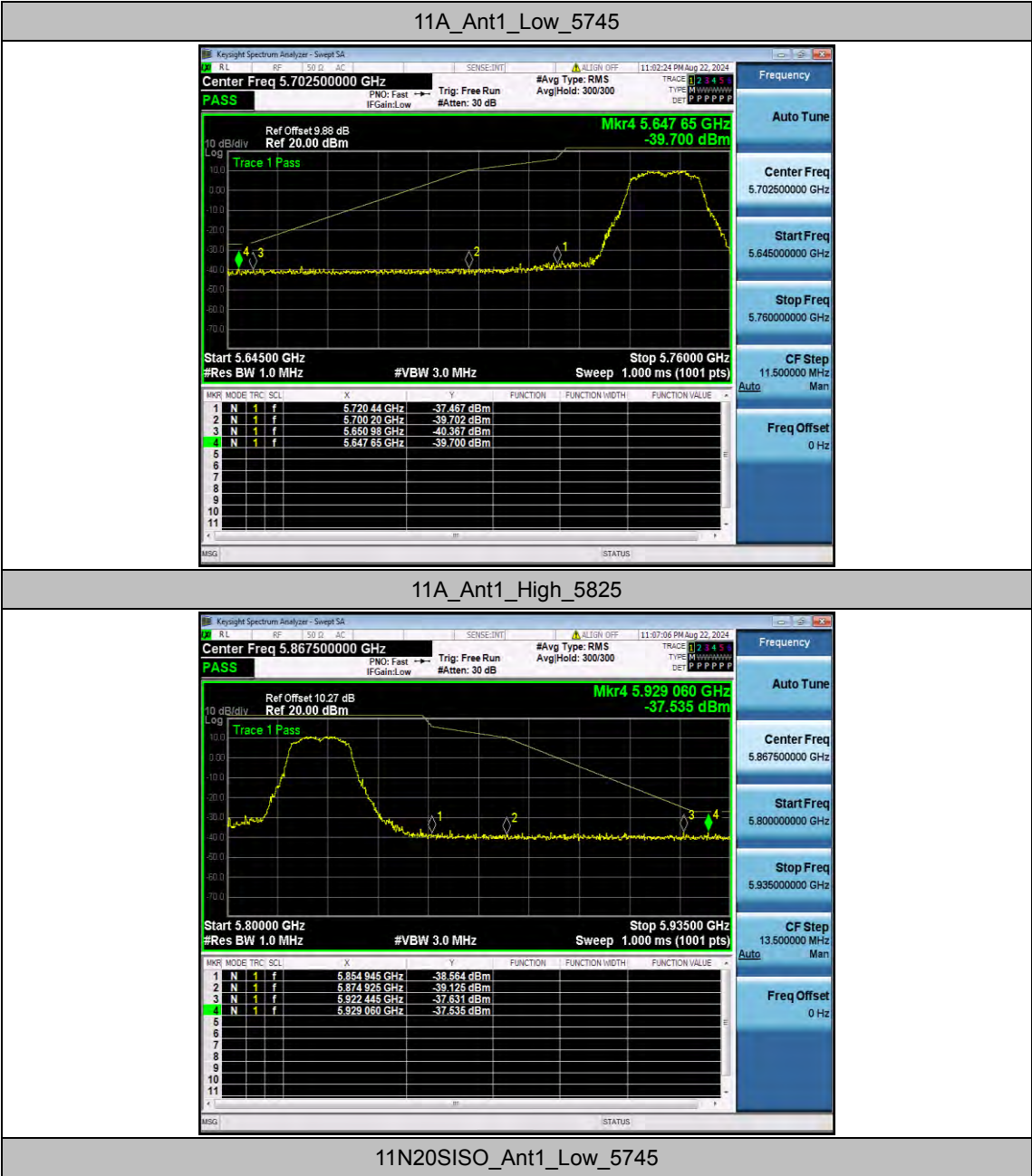
Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-40.37	≤ -26.27	PASS
				5700~5720	-39.7	≤ 10.06	PASS
				5720~5725	-37.47	≤ 16.60	PASS
				5760~5650	-39.7	≤ -27	PASS
		High	5825	5850~5855	-38.56	≤ 15.73	PASS
				5855~5875	-39.13	≤ 10.02	PASS
				5875~5925	-37.63	≤ -25.11	PASS
				5925~5935	-37.54	≤ -27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-40.88	≤ -26.87	PASS
				5700~5720	-39.38	≤ 10.12	PASS
				5720~5725	-37.69	≤ 15.82	PASS
				5760~5650	-39.43	≤ -27	PASS
		High	5825	5850~5855	-38.64	≤ 16.96	PASS
				5855~5875	-38.79	≤ 10.25	PASS
				5875~5925	-39.35	≤ -26.81	PASS
				5925~5935	-38.47	≤ -27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-40.85	≤ -26.80	PASS
				5700~5720	-31.87	≤ 15.24	PASS
				5720~5725	-35.54	≤ 15.74	PASS
				5780~5650	-39.9	≤ -27	PASS
		High	5795	5850~5855	-39.49	≤ 15.66	PASS
				5855~5875	-38.53	≤ 10.02	PASS
				5875~5925	-38.77	≤ -26.95	PASS
				5925~5935	-36.58	≤ -27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-40.92	≤ -26.96	PASS
				5700~5720	-39.67	≤ 10.02	PASS
				5720~5725	-37.69	≤ 16.08	PASS
				5760~5650	-39.31	≤ -27	PASS
		High	5825	5850~5855	-39.12	≤ 16.03	PASS
				5855~5875	-38.66	≤ 10.93	PASS
				5875~5925	-38.85	≤ -26.81	PASS
				5925~5935	-38	≤ -27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-40.14	≤ -26.80	PASS
				5700~5720	-34.98	≤ 10.89	PASS
				5720~5725	-33.26	≤ 15.74	PASS
				5780~5650	-39.15	≤ -27	PASS

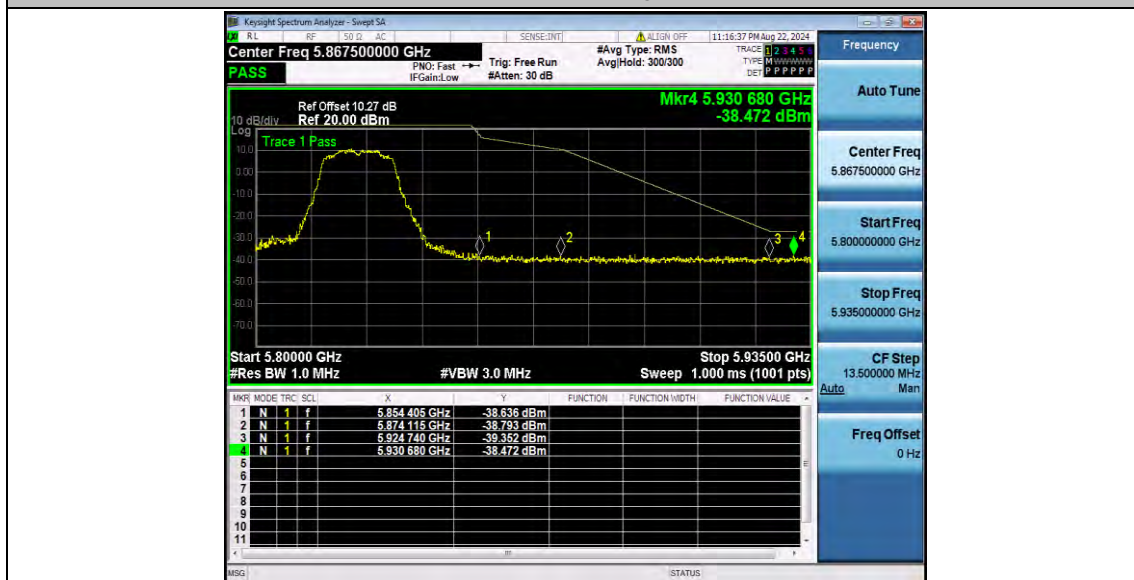
		High	5795	5850~5855	-38.57	≤ 15.66	PASS
				5855~5875	-38.87	≤ 10.39	PASS
				5875~5925	-39.97	≤ -26.83	PASS
				5925~5935	-39.14	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-39.76	≤ -25.88	PASS
				5700~5720	-39.05	≤ 10.05	PASS
				5720~5725	-38.55	≤ 16.00	PASS
				5800~5650	-38.53	≤ -27	PASS
		High	5775	5850~5855	-37.51	≤ 15.84	PASS
				5855~5875	-37.05	≤ 10.97	PASS
				5875~5925	-38.36	≤ -25.36	PASS
				5925~5935	-38.23	≤ -27	PASS

Test Graphs B4





11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



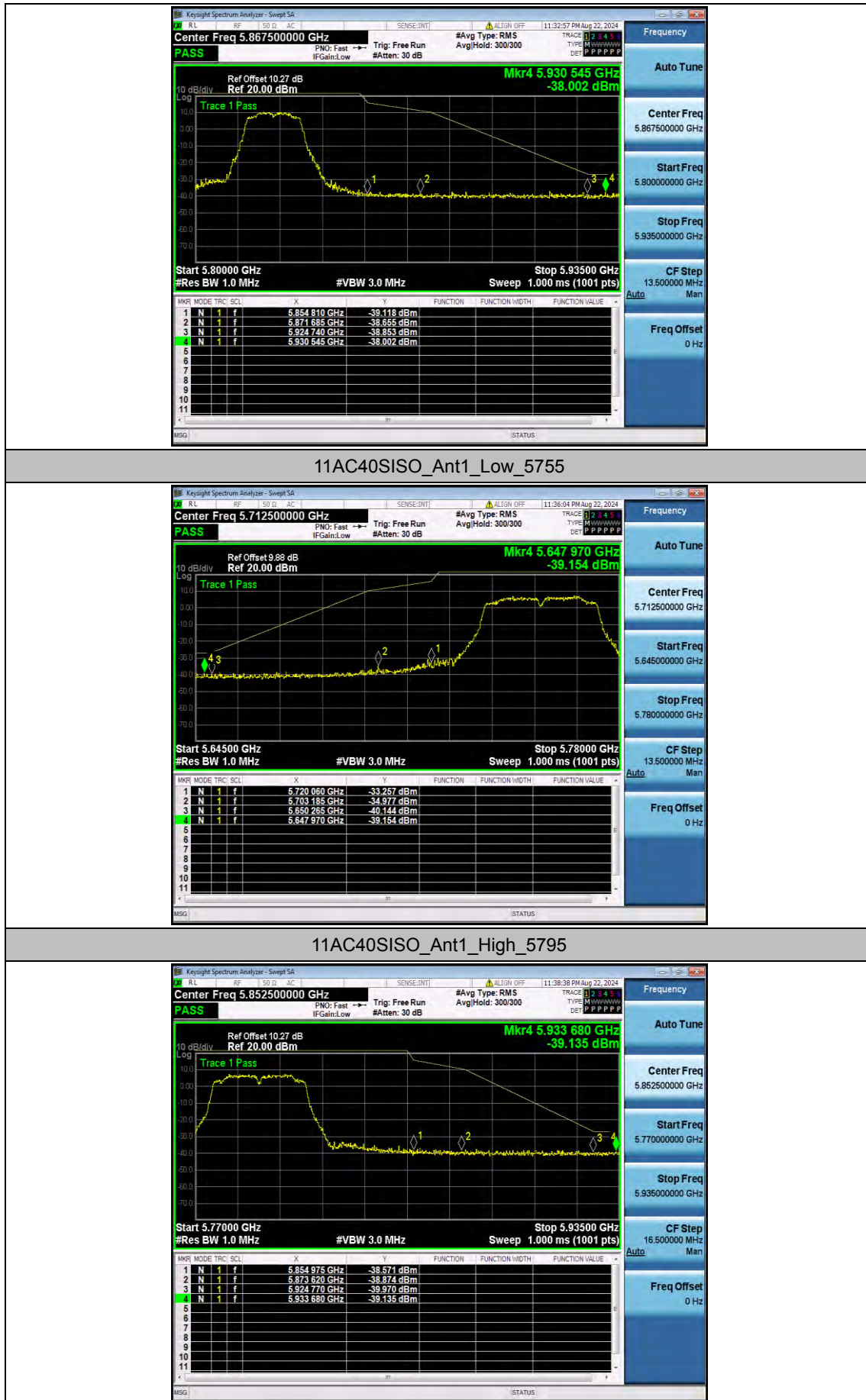
11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



Appendix E.7: Conducted Spurious Emission

Test Result

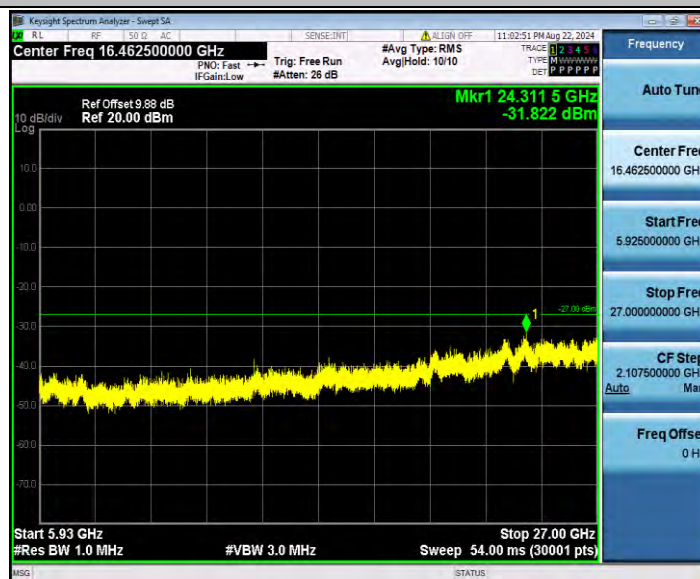
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5451.24	-40.43	≤-27	PASS
			5925~27000	24311.53	-31.82	≤-27	PASS
		5785	30~5650	5412.09	-39.13	≤-27	PASS
			5925~27000	23452.38	-32.11	≤-27	PASS
		5825	30~5650	5450.49	-39.99	≤-27	PASS
			5925~27000	25092.01	-31.99	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5581.44	-40.39	≤-27	PASS
			5925~27000	25313.3	-32.32	≤-27	PASS
		5785	30~5650	4919.77	-40.12	≤-27	PASS
			5925~27000	26883.39	-31.82	≤-27	PASS
		5825	30~5650	5433.63	-39.3	≤-27	PASS
			5925~27000	23502.96	-32.1	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5509.13	-40.11	≤-27	PASS
			5925~27000	25582.36	-32.15	≤-27	PASS
		5795	30~5650	5480.09	-39.7	≤-27	PASS
			5925~27000	26865.82	-31.23	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5357.2	-39.65	≤-27	PASS
			5925~27000	24256.04	-32.62	≤-27	PASS
		5785	30~5650	4209.41	-40.38	≤-27	PASS
			5925~27000	24276.41	-31.71	≤-27	PASS
		5825	30~5650	5452.74	-39.91	≤-27	PASS
			5925~27000	26701.44	-31.8	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5432.13	-40.22	≤-27	PASS
			5925~27000	26546.89	-32.34	≤-27	PASS
		5795	30~5650	5423.89	-39.08	≤-27	PASS
			5925~27000	26859.5	-32.22	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5512.12	-40.55	≤-27	PASS
			5925~27000	24298.89	-32.19	≤-27	PASS

Test Graphs

11A_Ant1_5745_30~5650



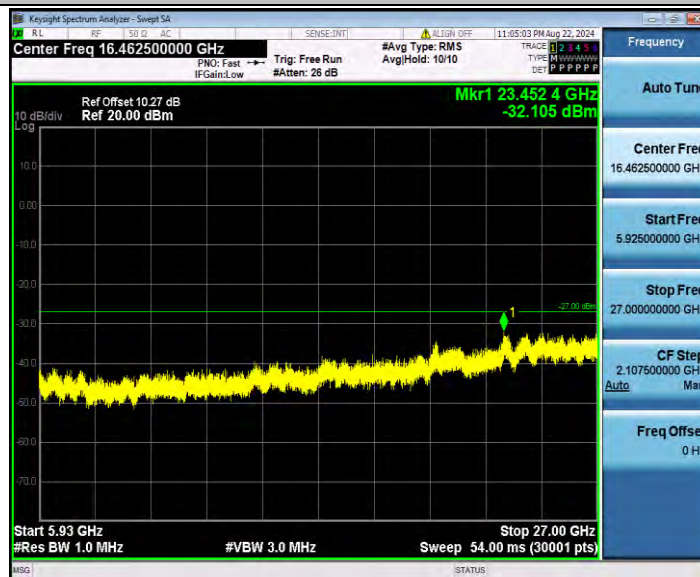
11A_Ant1_5745_5925~27000



11A_Ant1_5785_30~5650



11A_Ant1_5785_5925~27000



11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~27000



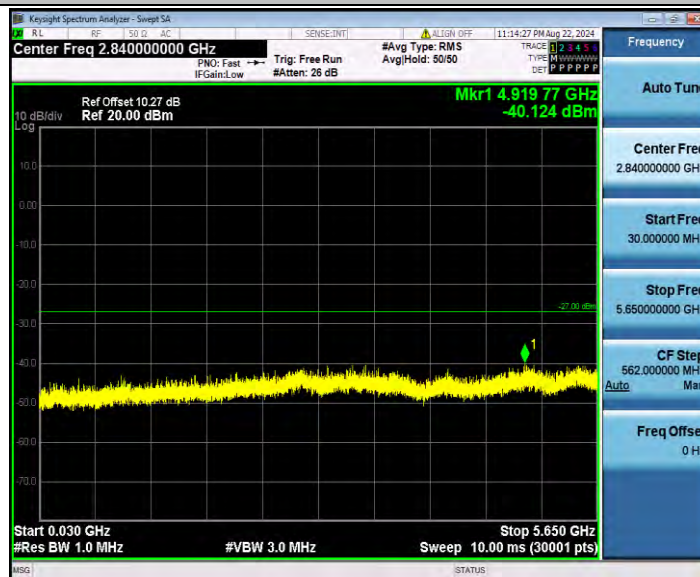
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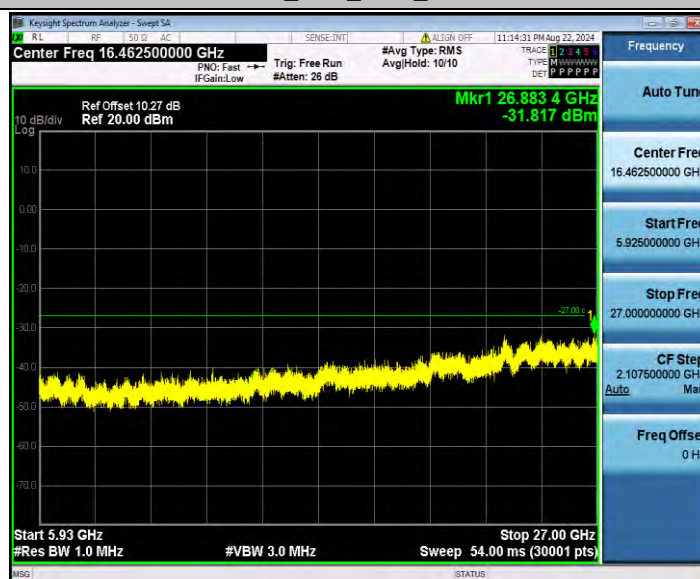
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11N20SISO_Ant1_5785_30~5650



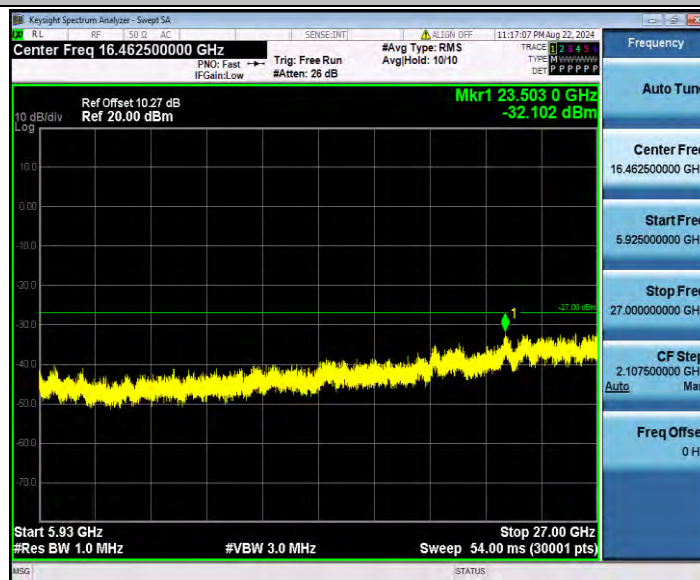
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11N20SISO_Ant1_5825_30~5650



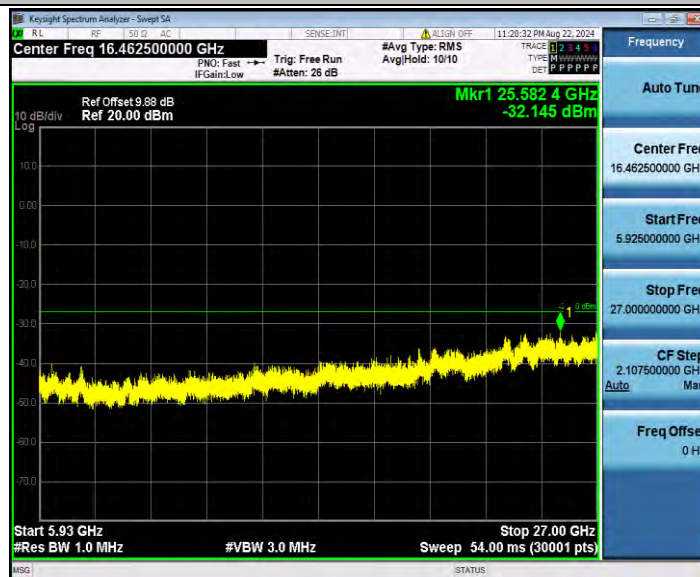
11N20SISO_Ant1_5825_5925~27000



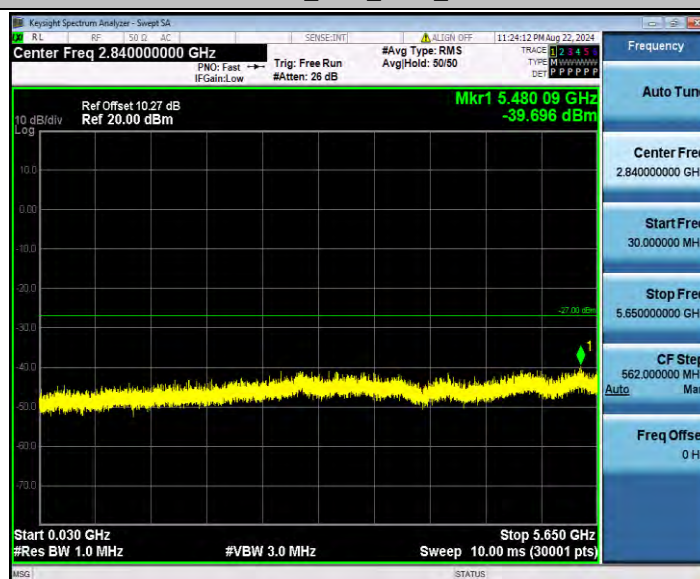
11N40SISO_Ant1_5755_30~5650



11N40SISO_Ant1_5755_5925~27000



11N40SISO_Ant1_5795_30~5650



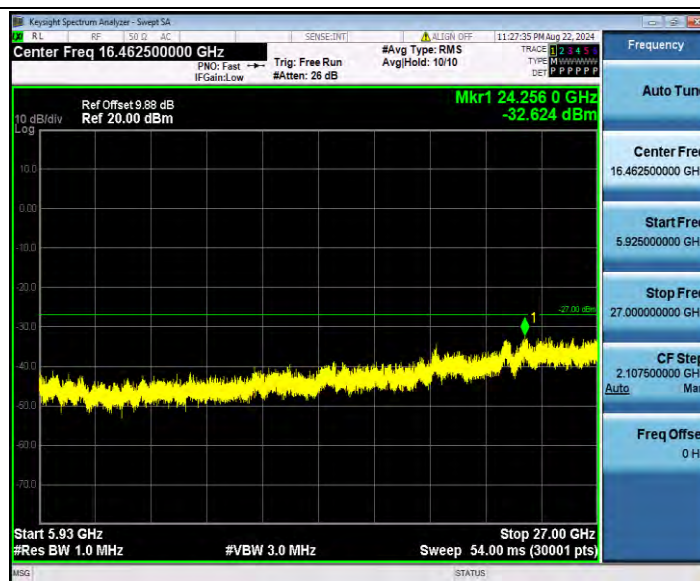
11N40SISO_Ant1_5795_5925~27000



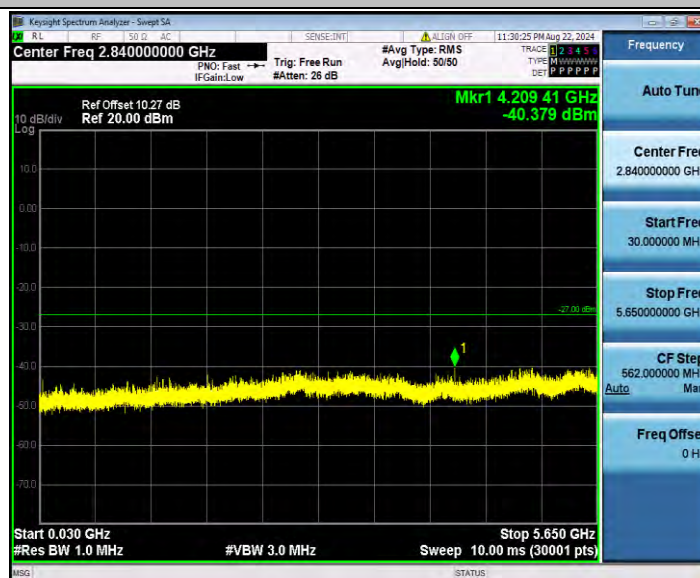
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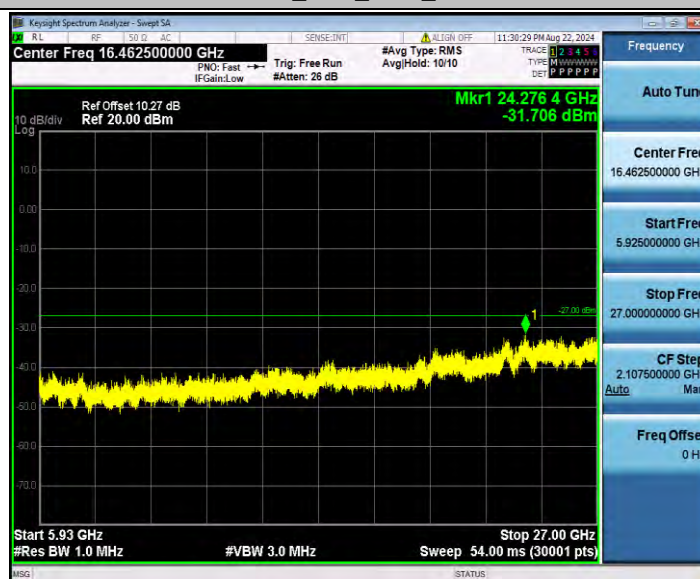
11AC20SISO_Ant1_5745_5925~27000



11AC20SISO_Ant1_5785_30~5650



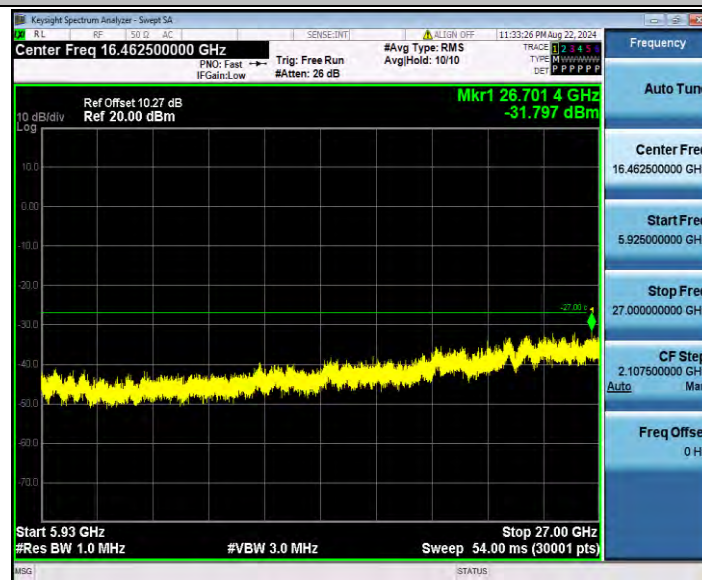
11AC20SISO_Ant1_5785_5925~27000



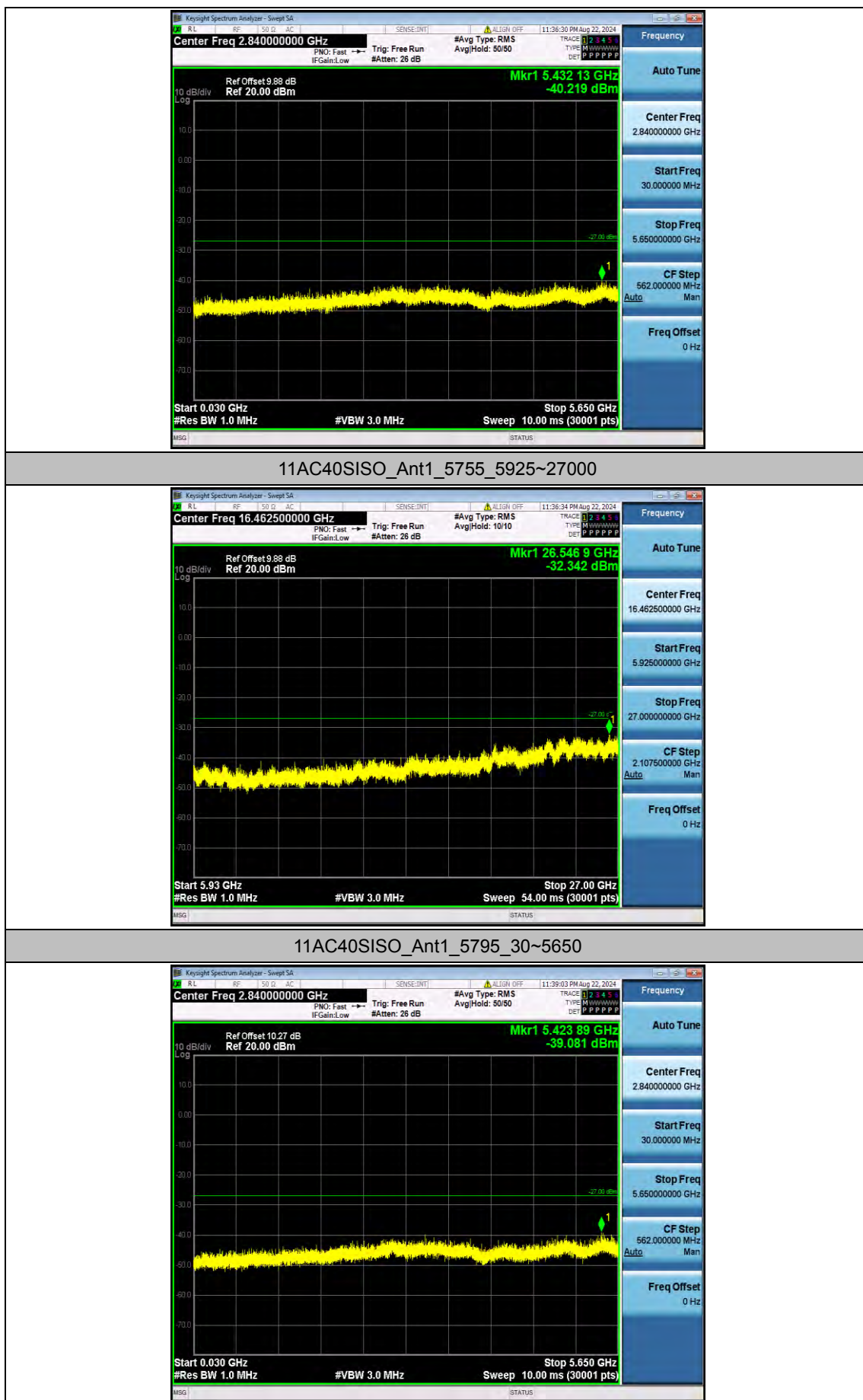
11AC20SISO_Ant1_5825_30~5650



11AC20SISO_Ant1_5825_5925~27000



11AC40SISO_Ant1_5755_30~5650



11AC40SISO_Ant1_5795_5925~27000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~27000

