

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>

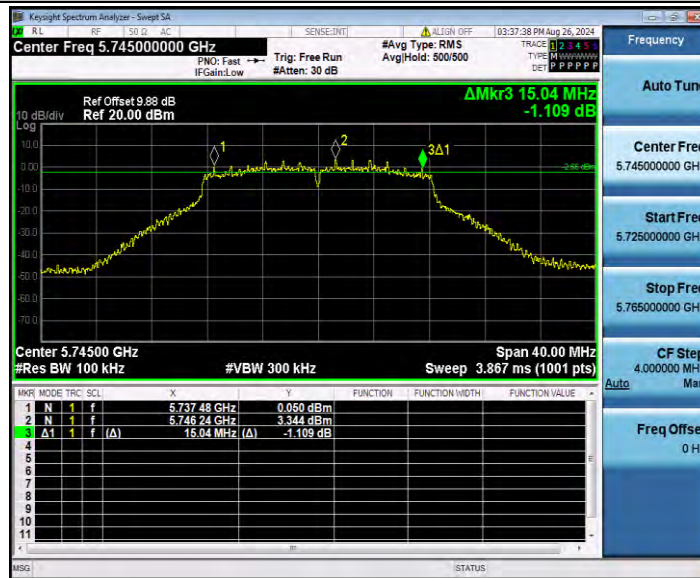
Appendix E.1: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5745	15.040	5737.480	5752.520	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	13.880	5818.640	5832.520	0.5	PASS
11N20SISO	Ant2	5745	15.120	5737.400	5752.520	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	15.000	5817.480	5832.480	0.5	PASS
11N40SISO	Ant2	5755	33.760	5738.680	5772.440	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant2	5745	13.840	5738.640	5752.480	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	35.040	5777.480	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



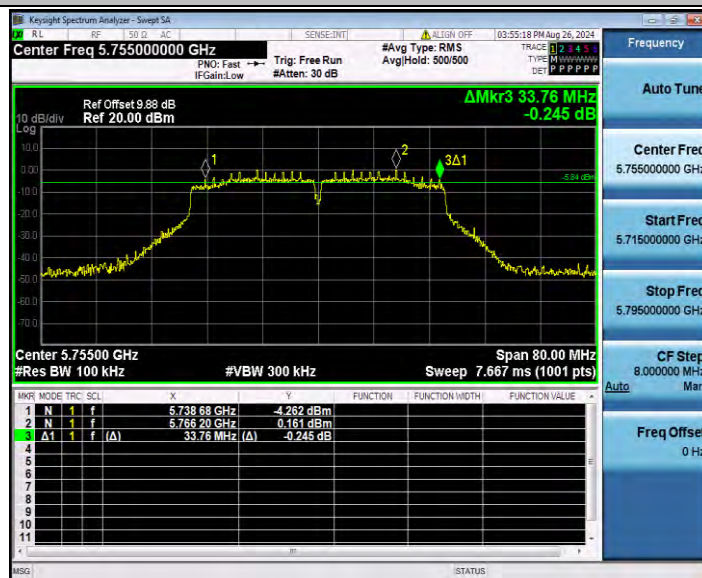
11A_Ant2_5825



11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



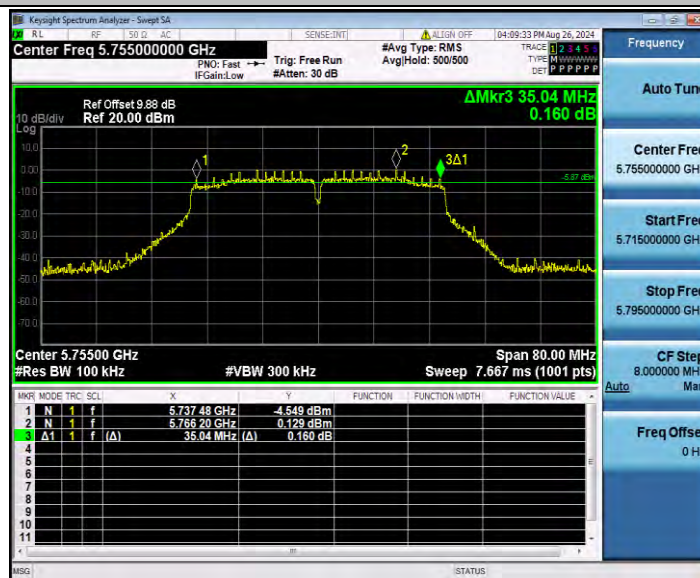
11N40SISO_Ant2_5795



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	16.983	5736.5245	5753.5075	---	---
		5785	17.001	5776.4711	5793.4721	---	---
		5825	16.982	5816.5176	5833.4996	---	---
11N20SISO	Ant2	5745	17.949	5736.0211	5753.9701	---	---
		5785	17.987	5776.0173	5794.0043	---	---
		5825	17.993	5815.9799	5833.9729	---	---
11N40SISO	Ant2	5755	36.242	5736.8764	5773.1184	---	---
		5795	36.226	5776.8921	5813.1181	---	---
11AC20SISO	Ant2	5745	17.996	5736.0060	5754.0020	---	---
		5785	18.027	5775.9766	5794.0036	---	---
		5825	17.988	5815.9849	5833.9729	---	---
11AC40SISO	Ant2	5755	36.247	5736.8999	5773.1469	---	---
		5795	36.178	5776.9211	5813.0991	---	---
11AC80SISO	Ant2	5775	75.023	5737.5862	5812.6092	---	---

Test Graphs

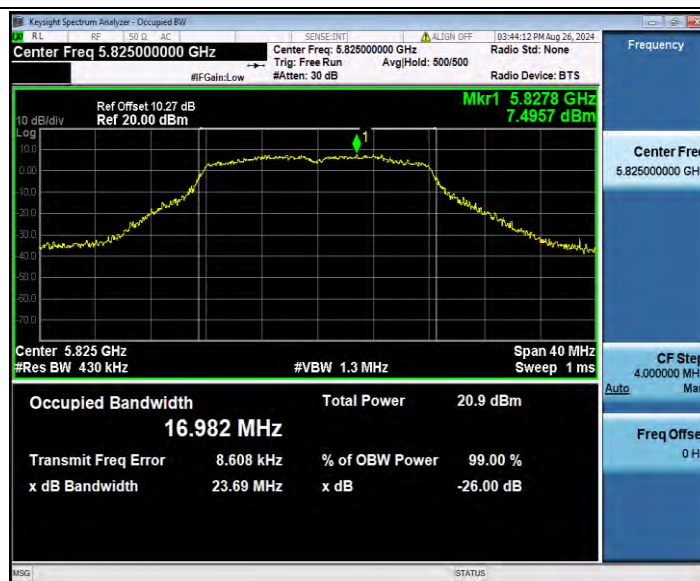
11A_Ant2_5745



11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



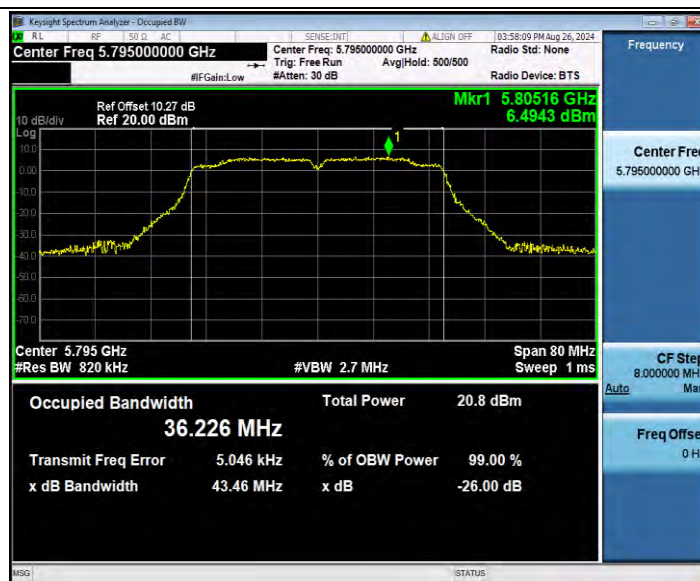
11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



11N40SISO_Ant2_5795



11AC20SISO_Ant2_5745



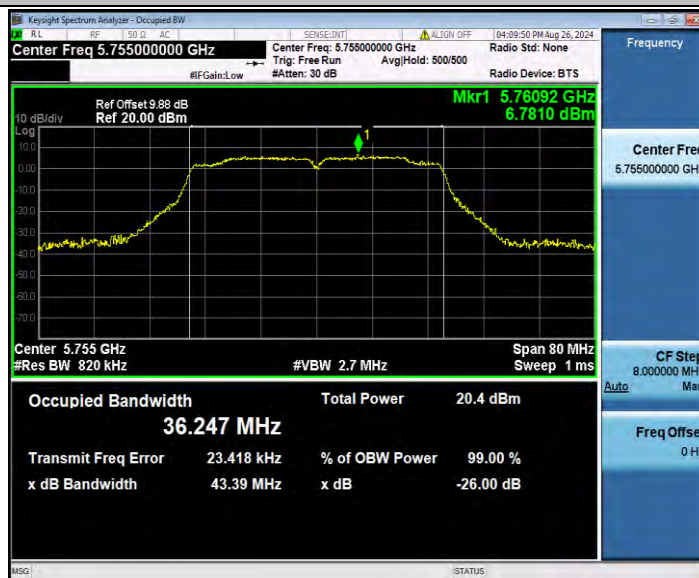
11AC20SISO_Ant2_5785



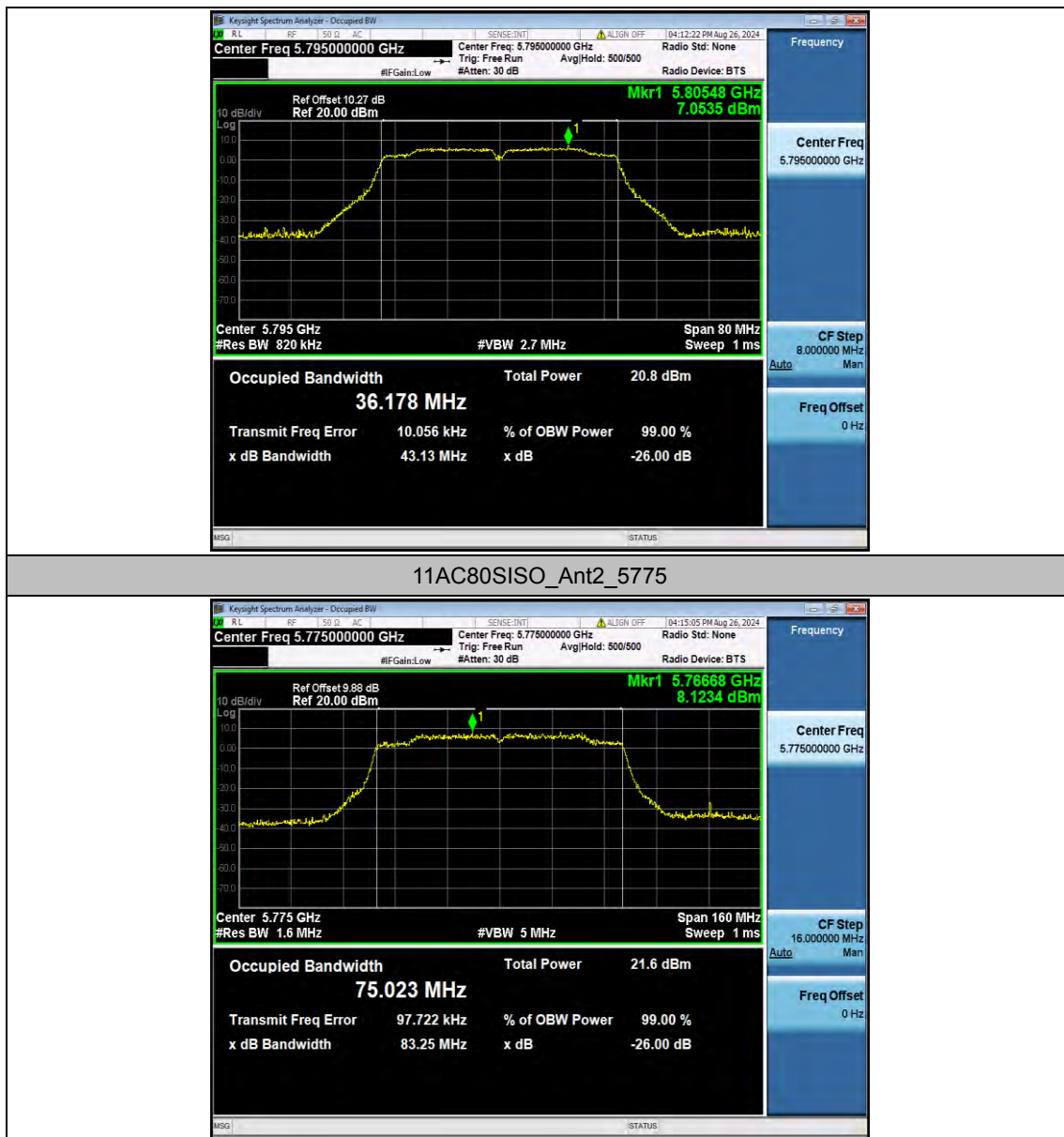
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11AC40SISO_Ant2_5755



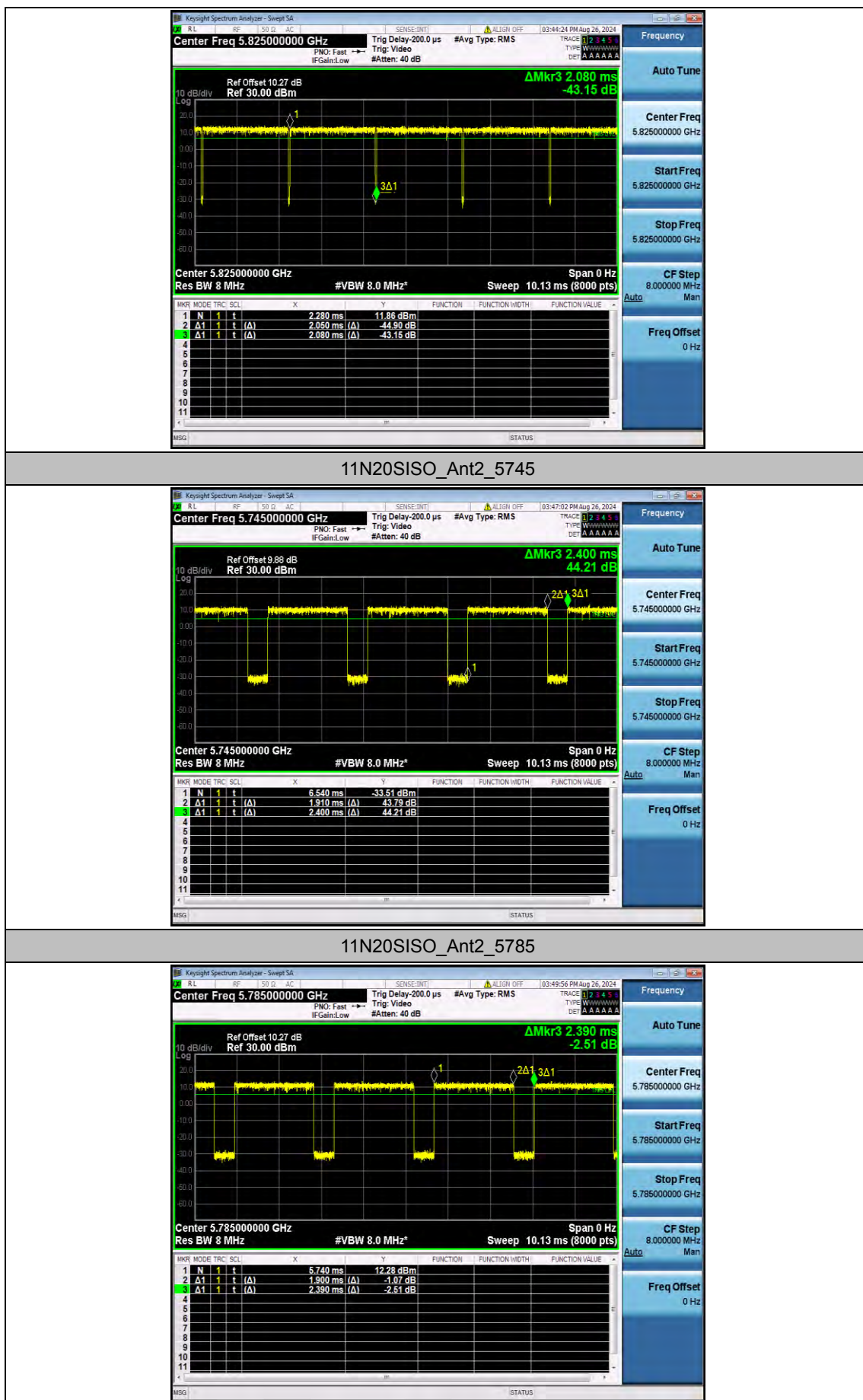
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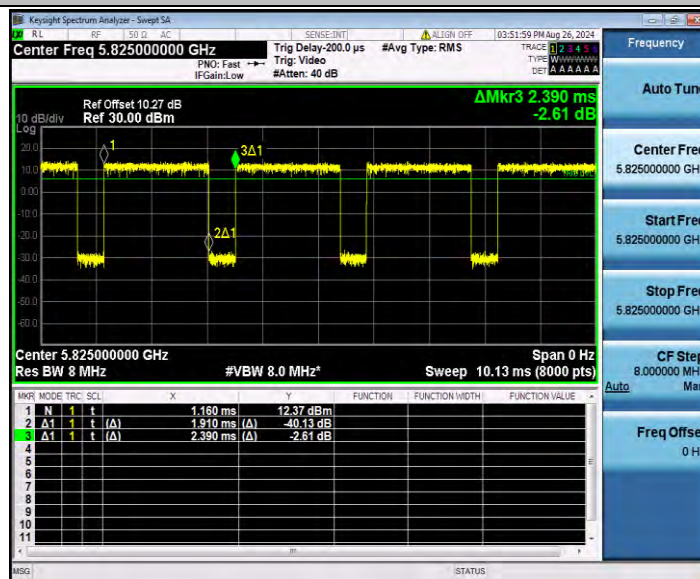
Appendix E.3: Duty Cycle

Test Result

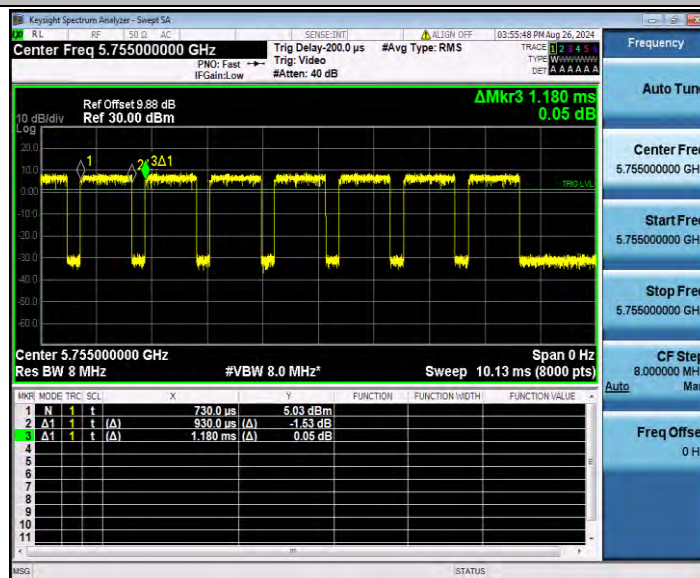
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant2	5745	2.05	2.08	98.56	0.06	0.49
		5785	2.04	2.08	98.08	0.08	0.49
		5825	2.05	2.08	98.56	0.06	0.49
11N20SISO	Ant2	5745	1.91	2.40	79.58	0.99	0.52
		5785	1.90	2.39	79.50	1.00	0.53
		5825	1.91	2.39	79.92	0.97	0.52
11N40SISO	Ant2	5755	0.93	1.18	78.81	1.03	1.08
		5795	0.94	1.18	79.66	0.99	1.06
11AC20SISO	Ant2	5745	1.91	2.40	79.58	0.99	0.52
		5785	1.91	2.40	79.58	0.99	0.52
		5825	1.92	2.40	80.00	0.97	0.52
11AC40SISO	Ant2	5755	0.94	1.19	78.99	1.02	1.06
		5795	0.94	1.19	78.99	1.02	1.06
11AC80SISO	Ant2	5775	0.46	0.59	77.97	1.08	2.17



11N20SISO_Ant2_5825

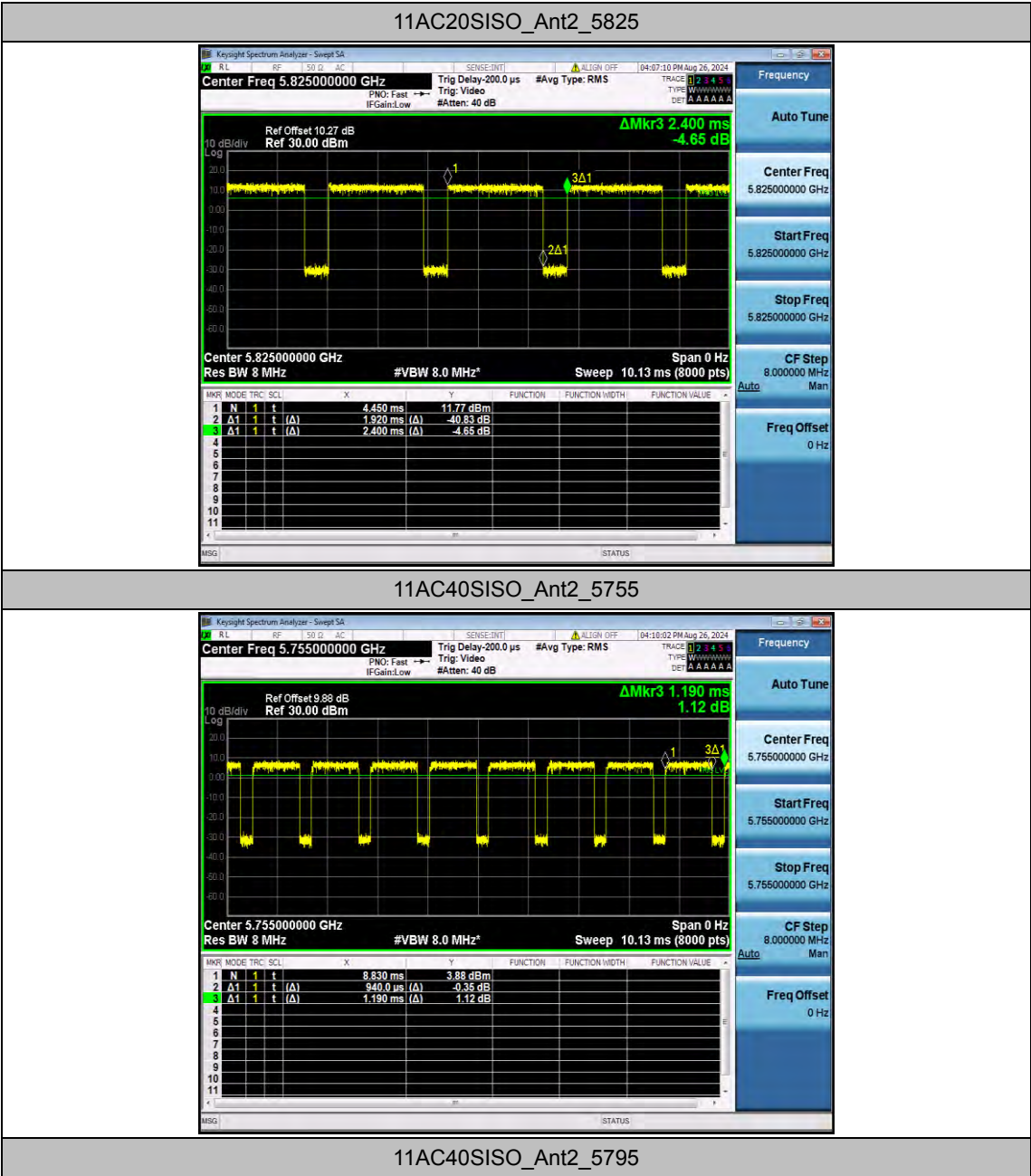


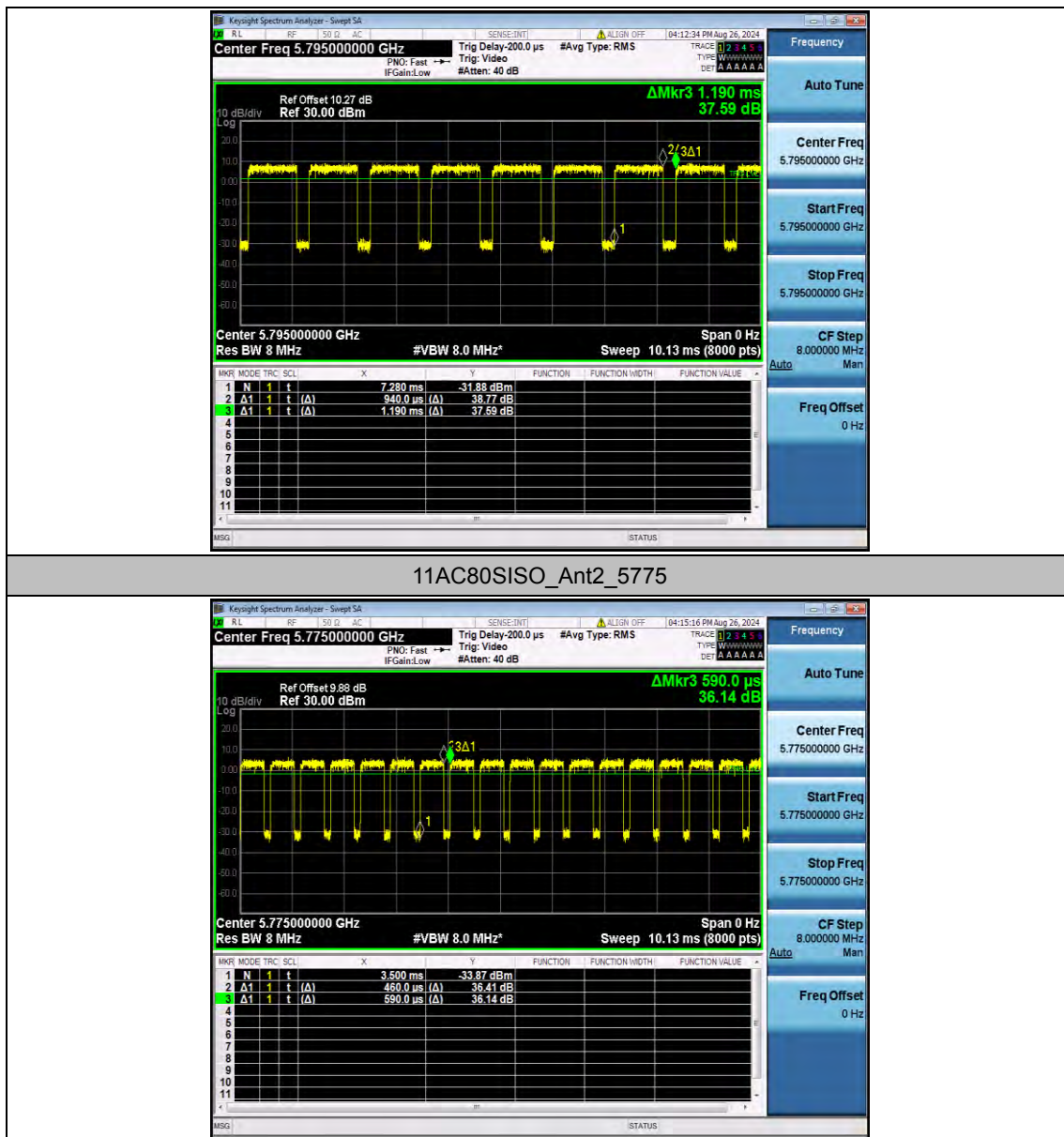
11N40SISO_Ant2_5755



11N40SISO_Ant2_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	Ant2	5745	13.06	98.56	0.06	13.12	≤30.00	PASS
		5785	13.74	98.08	0.08	13.82	≤30.00	PASS
		5825	14.00	98.56	0.06	14.06	≤30.00	PASS
11N20SISO	Ant2	5745	11.82	79.58	0.99	12.81	≤30.00	PASS
		5785	12.53	79.50	1.00	13.53	≤30.00	PASS
		5825	13.02	79.92	0.97	13.99	≤30.00	PASS
11N40SISO	Ant2	5755	11.75	78.81	1.03	12.78	≤30.00	PASS
		5795	12.22	79.66	0.99	13.21	≤30.00	PASS
11AC20SISO	Ant2	5745	11.95	79.58	0.99	12.94	≤30.00	PASS
		5785	12.60	79.58	0.99	13.59	≤30.00	PASS
		5825	12.92	80.00	0.97	13.89	≤30.00	PASS
11AC40SISO	Ant2	5755	11.70	78.99	1.02	12.72	≤30.00	PASS
		5795	12.22	78.99	1.02	13.24	≤30.00	PASS
11AC80SISO	Ant2	5775	11.87	77.97	1.08	12.95	≤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	-0.60	≤30.00	PASS
		5785	0.04	≤30.00	PASS
		5825	0.48	≤30.00	PASS
11N20SISO	Ant2	5745	-0.09	≤30.00	PASS
		5785	0.60	≤30.00	PASS
		5825	0.99	≤30.00	PASS
11N40SISO	Ant2	5755	-3.32	≤30.00	PASS
		5795	-3.26	≤30.00	PASS
11AC20SISO	Ant2	5745	-0.10	≤30.00	PASS
		5785	0.58	≤30.00	PASS
		5825	0.85	≤30.00	PASS
11AC40SISO	Ant2	5755	-3.47	≤30.00	PASS
		5795	-3.17	≤30.00	PASS
11AC80SISO	Ant2	5775	-6.64	≤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



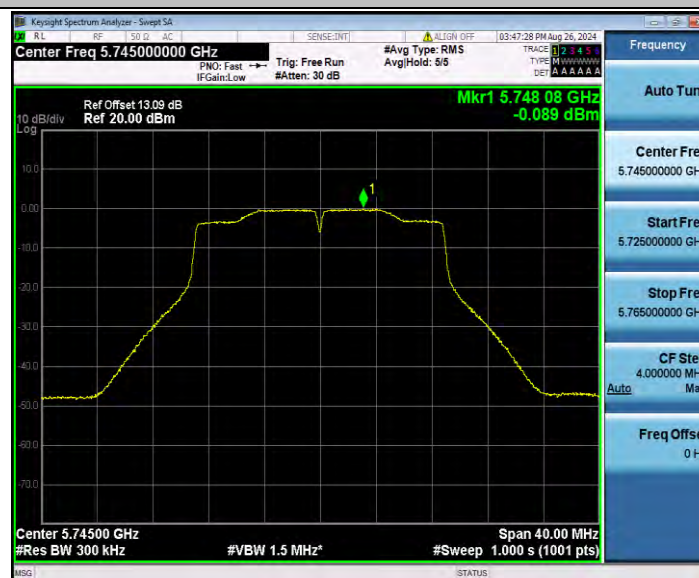
11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



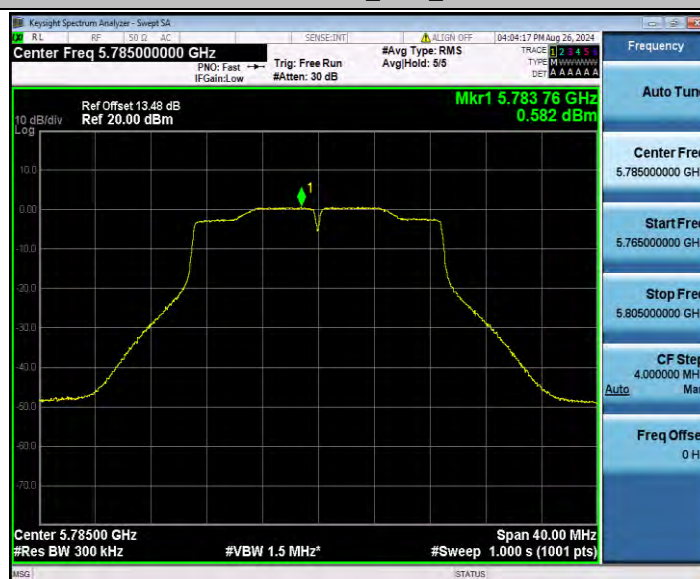
11N40SISO_Ant2_5795



11AC20SISO_Ant2_5745



11AC20SISO_Ant2_5785



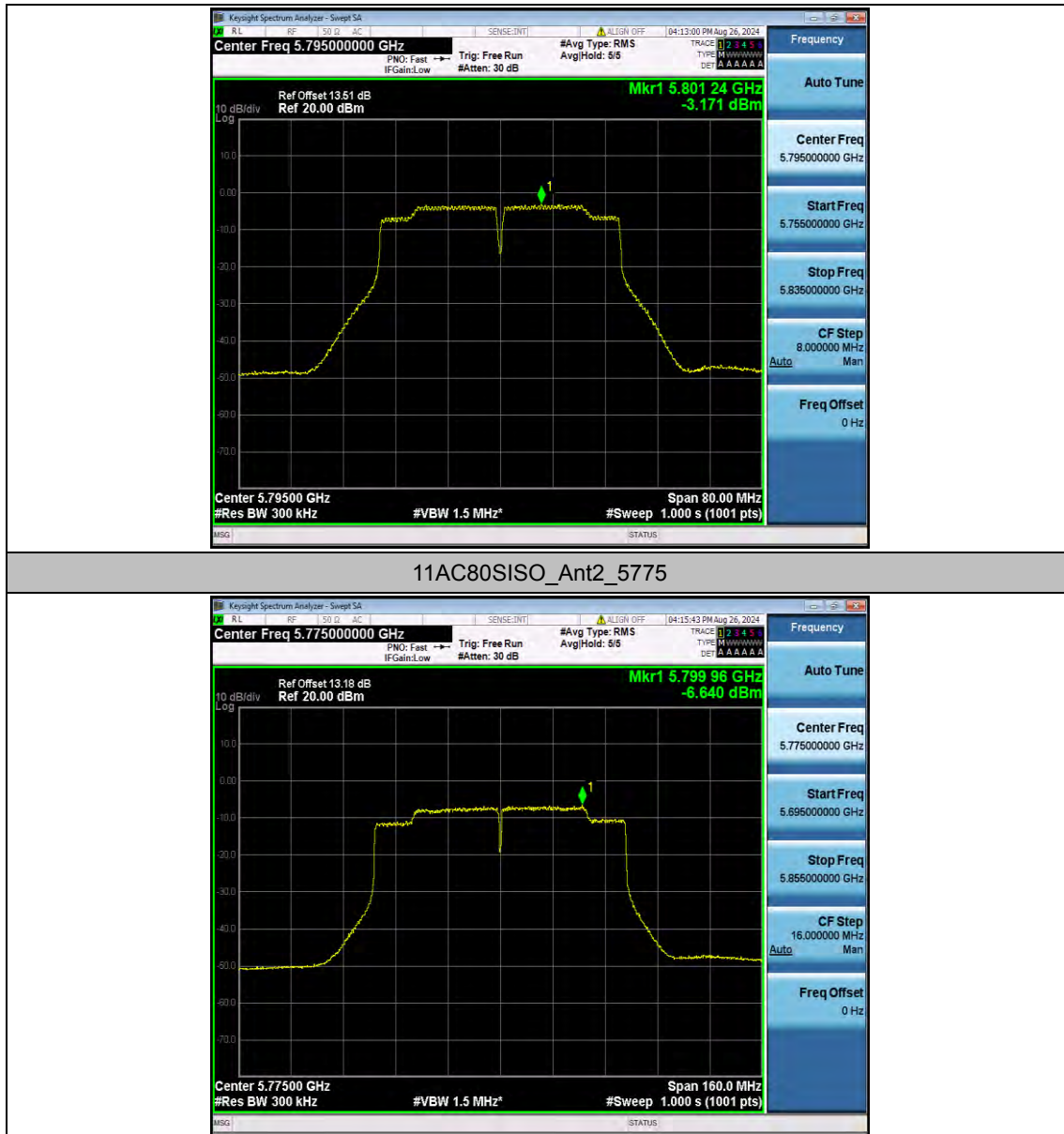
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



Appendix E.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	-40.16	≤-26.79	PASS
				5700~5720	-38.68	≤10.02	PASS
				5720~5725	-36.38	≤16.34	PASS
				5760~5650	-39.43	≤-27	PASS
		High	5825	5850~5855	-37.96	≤15.73	PASS
				5855~5875	-39.64	≤10.29	PASS
				5875~5925	-39.2	≤-26.81	PASS
				5925~5935	-37.39	≤-27	PASS
11N20SI SO	Ant2	Low	5745	5650~5700	-40.37	≤-26.79	PASS
				5700~5720	-33.31	≤15.30	PASS
				5720~5725	-36.62	≤16.34	PASS
				5760~5650	-39.16	≤-27	PASS
		High	5825	5850~5855	-37.6	≤15.73	PASS
				5855~5875	-38.81	≤10.17	PASS
				5875~5925	-39.34	≤-26.41	PASS
				5925~5935	-38.57	≤-27	PASS
11N40SI SO	Ant2	Low	5755	5650~5700	-40.21	≤-26.70	PASS
				5700~5720	-37.79	≤10.02	PASS
				5720~5725	-33.78	≤16.66	PASS
				5780~5650	-39.29	≤-27	PASS
		High	5795	5850~5855	-39.53	≤16.03	PASS
				5855~5875	-36.77	≤12.93	PASS
				5875~5925	-38.28	≤-26.59	PASS
				5925~5935	-38.49	≤-27	PASS
11AC20S ISO	Ant2	Low	5745	5650~5700	-40.21	≤-26.79	PASS
				5700~5720	-33.25	≤15.50	PASS
				5720~5725	-35.65	≤16.08	PASS
				5760~5650	-39.72	≤-27	PASS
		High	5825	5850~5855	-36.08	≤15.73	PASS
				5855~5875	-39.01	≤10.70	PASS
				5875~5925	-37.75	≤-26.01	PASS
				5925~5935	-38.44	≤-27	PASS
11AC40S ISO	Ant2	Low	5755	5650~5700	-39.82	≤-26.40	PASS
				5700~5720	-35.43	≤11.01	PASS
				5720~5725	-29.76	≤16.04	PASS
				5780~5650	-39.82	≤-27	PASS

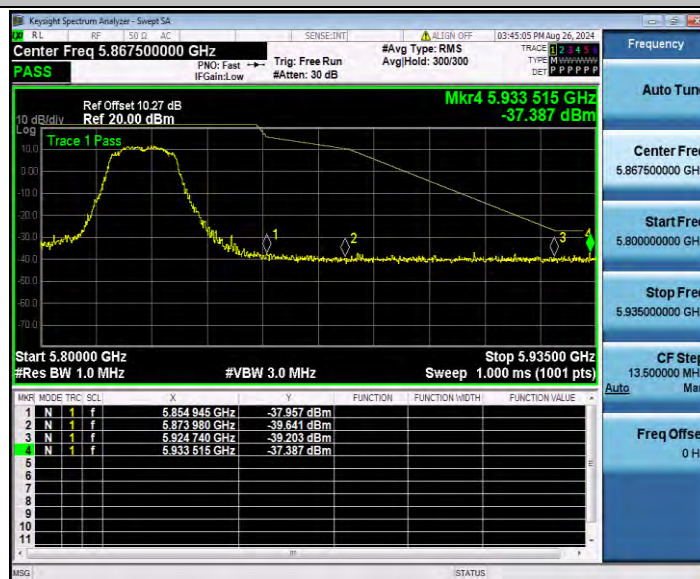
		High	5795	5850~5855	-38.34	≤ 16.41	PASS
				5855~5875	-39.45	≤ 10.16	PASS
				5875~5925	-39.17	≤ -26.10	PASS
				5925~5935	-37.98	≤ -27	PASS
11AC80S ISO	Ant2	Low	5775	5650~5700	-40.05	≤ -26.57	PASS
				5700~5720	-38.71	≤ 10.09	PASS
				5720~5725	-37.67	≤ 16.00	PASS
				5800~5650	-39.43	≤ -27	PASS
		High	5775	5850~5855	-36.59	≤ 15.84	PASS
				5855~5875	-37.74	≤ 10.04	PASS
				5875~5925	-38.57	≤ -26.73	PASS
				5925~5935	-39.13	≤ -27	PASS

Test Graphs B4

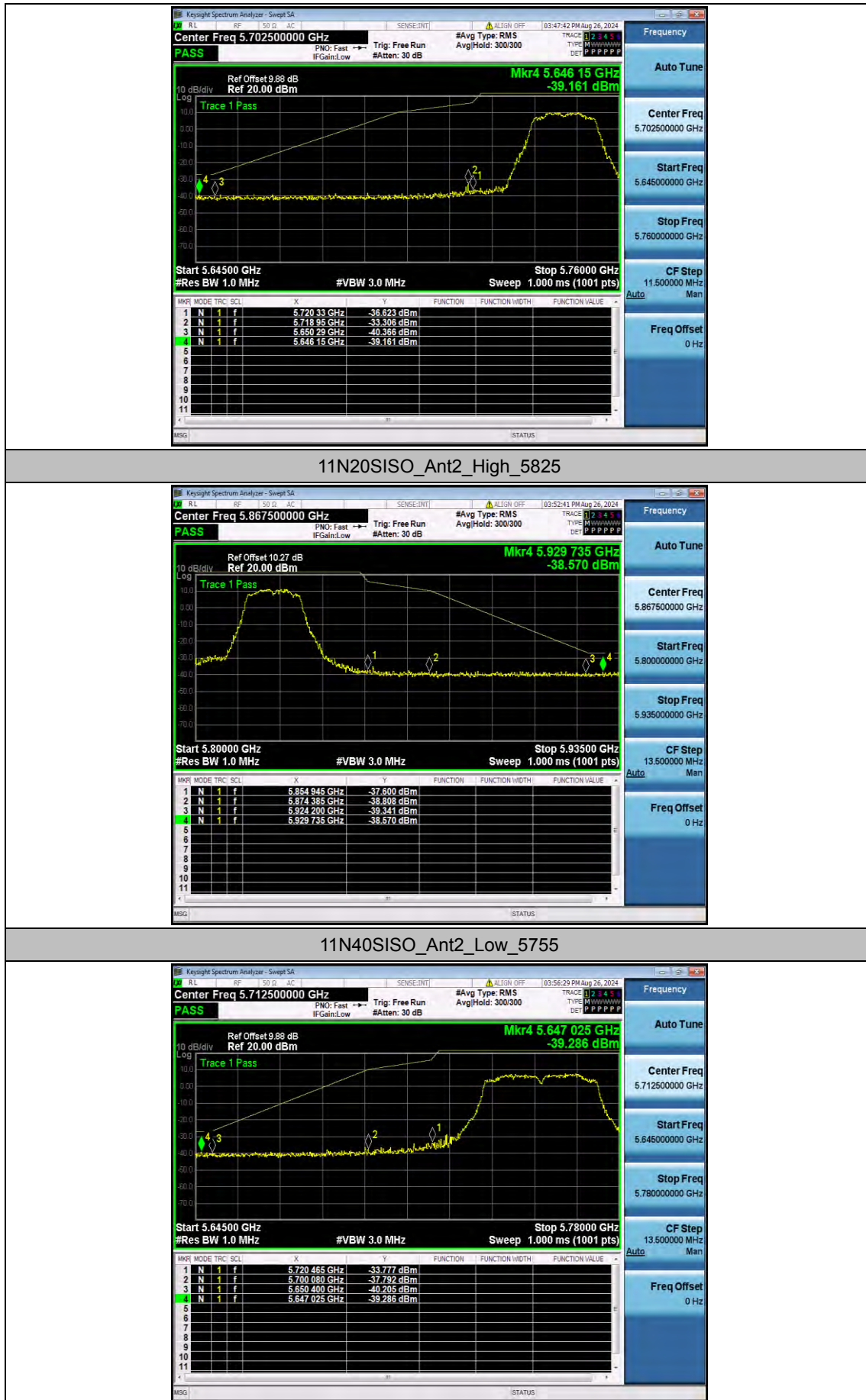
11A_Ant2_Low_5745



11A_Ant2_High_5825



11N20SISO_Ant2_Low_5745



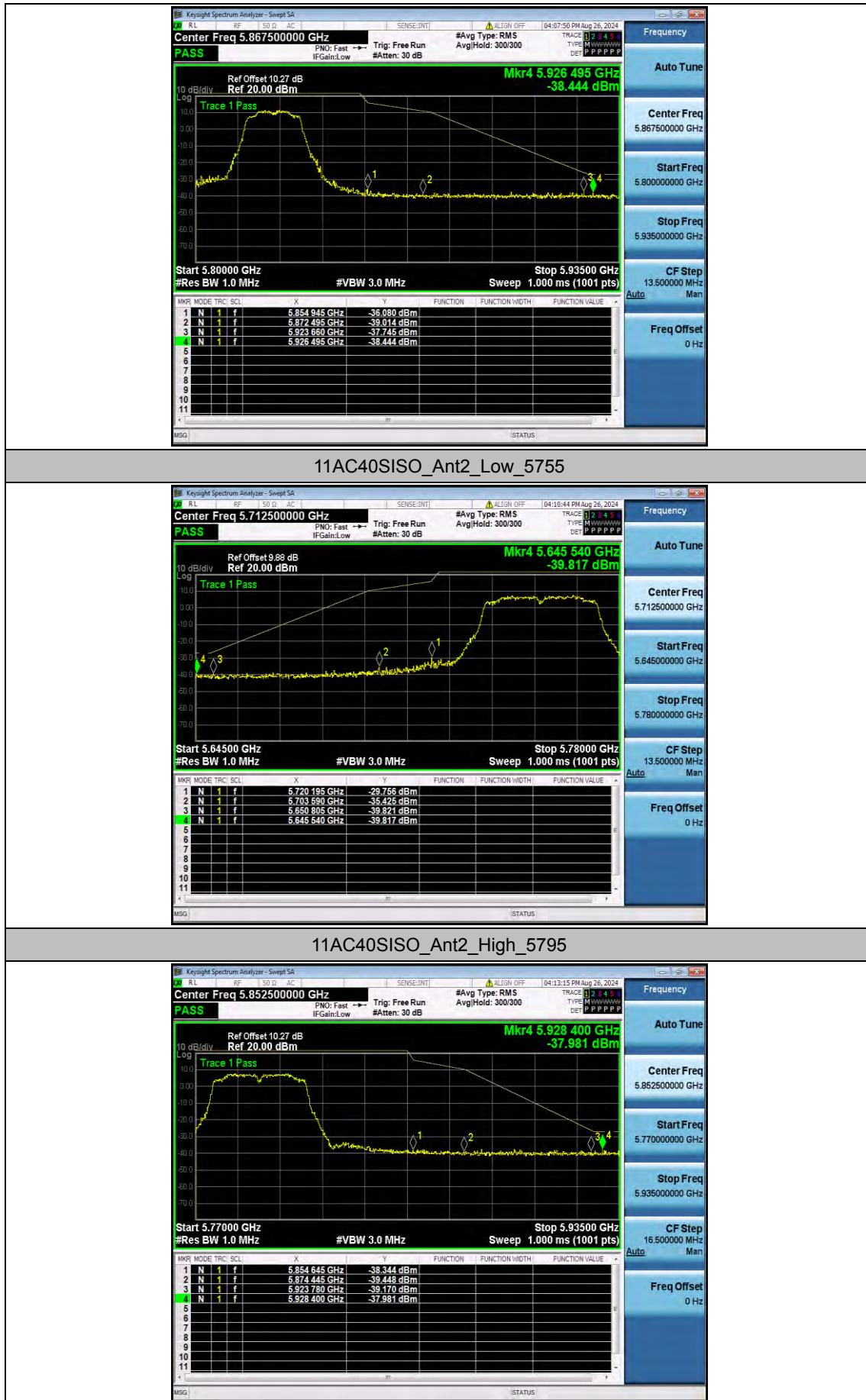
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11AC20SISO_Ant2_Low_5745



11AC20SISO_Ant2_High_5825



11AC80SISO_Ant2_Low_5775



11AC80SISO_Ant2_High_5775

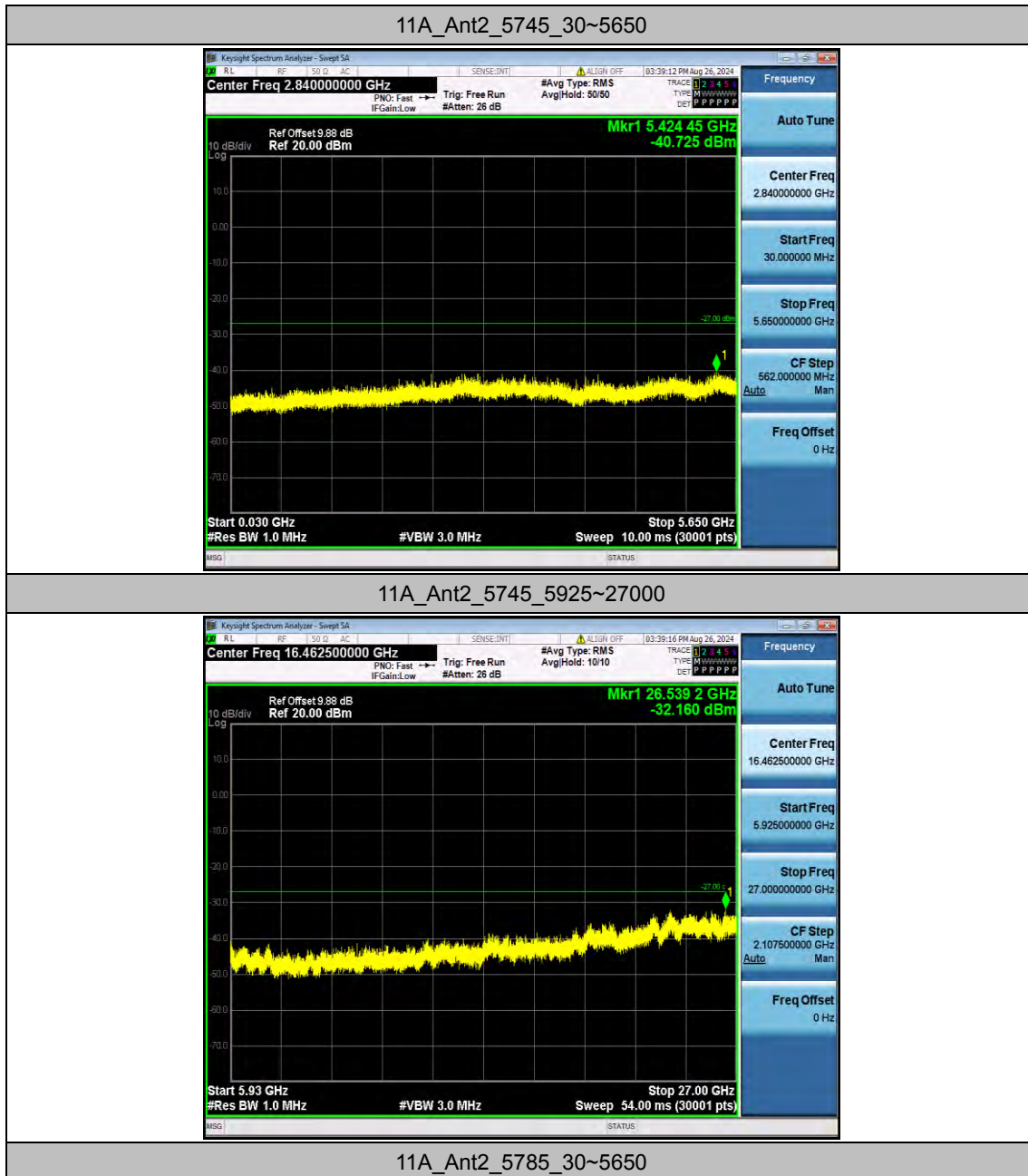


Appendix E.7: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5745	30~5650	5424.45	-40.73	≤-27	PASS
			5925~27000	26539.16	-32.16	≤-27	PASS
		5785	30~5650	3053.56	-39.54	≤-27	PASS
			5925~27000	26860.91	-31.67	≤-27	PASS
		5825	30~5650	5411.34	-40	≤-27	PASS
			5925~27000	26897.44	-31.82	≤-27	PASS
11N20SISO	Ant2	5745	30~5650	4948.81	-40.33	≤-27	PASS
			5925~27000	24820.85	-32.52	≤-27	PASS
		5785	30~5650	5413.4	-39.85	≤-27	PASS
			5925~27000	24228.64	-31.08	≤-27	PASS
		5825	30~5650	5472.6	-39.98	≤-27	PASS
			5925~27000	24257.44	-30.33	≤-27	PASS
11N40SISO	Ant2	5755	30~5650	5439.44	-40.46	≤-27	PASS
			5925~27000	24242.69	-31.77	≤-27	PASS
		5795	30~5650	5443	-39.9	≤-27	PASS
			5925~27000	24284.14	-31.24	≤-27	PASS
11AC20SISO	Ant2	5745	30~5650	3174.58	-40.49	≤-27	PASS
			5925~27000	24819.44	-31.87	≤-27	PASS
		5785	30~5650	4995.46	-39.91	≤-27	PASS
			5925~27000	24879.15	-31.64	≤-27	PASS
		5825	30~5650	5487.39	-39.7	≤-27	PASS
			5925~27000	24218.1	-31.7	≤-27	PASS
11AC40SISO	Ant2	5755	30~5650	5409.65	-39.84	≤-27	PASS
			5925~27000	26873.55	-32.12	≤-27	PASS
		5795	30~5650	5411.9	-39.91	≤-27	PASS
			5925~27000	24254.63	-31.26	≤-27	PASS
11AC80SISO	Ant2	5775	30~5650	5463.04	-40.74	≤-27	PASS
			5925~27000	26057.95	-30.72	≤-27	PASS

Test Graphs

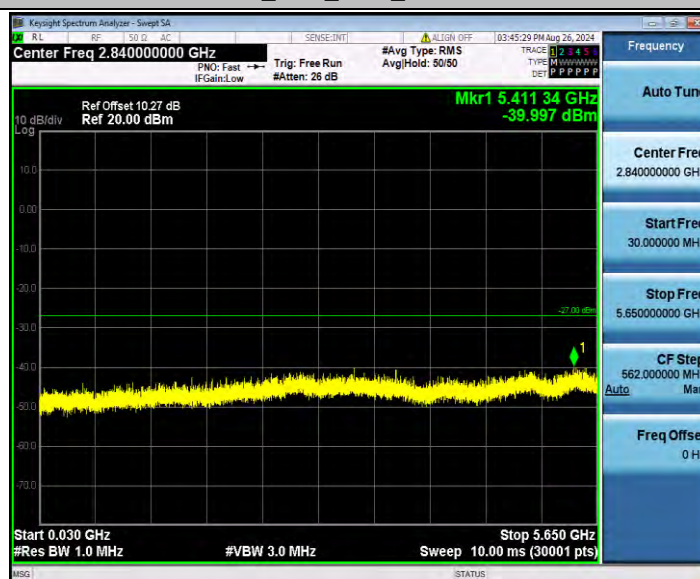




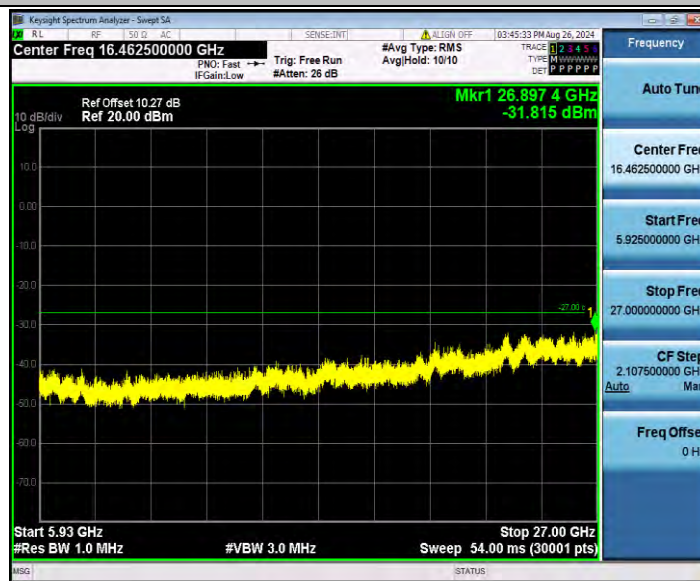
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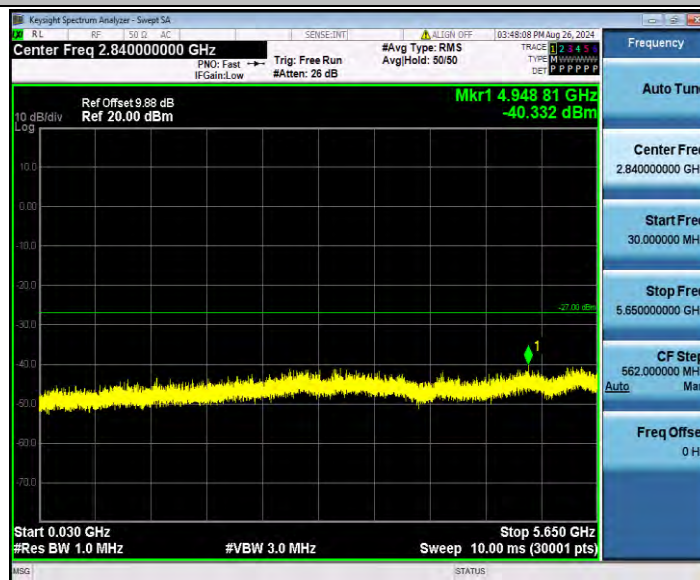
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11A_Ant2_5825_5925~27000



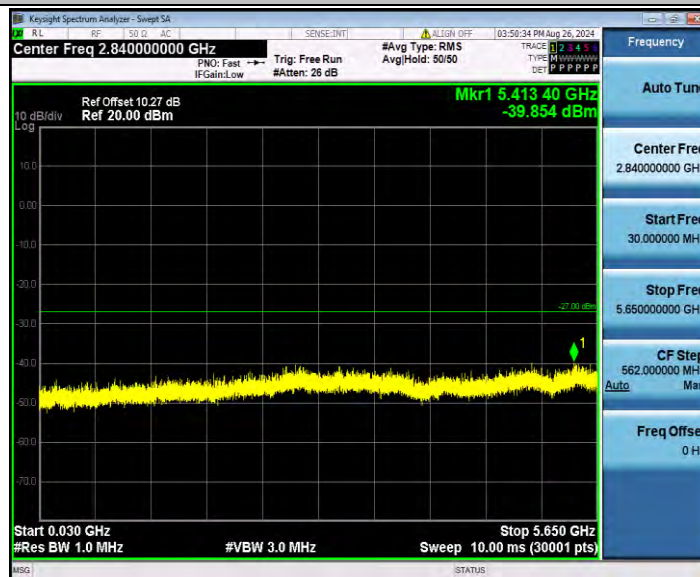
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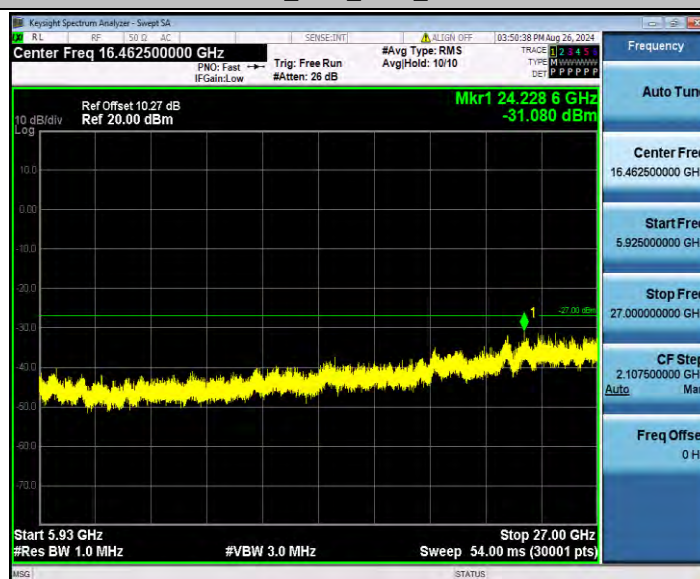
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11N20SISO_Ant2_5785_30~5650



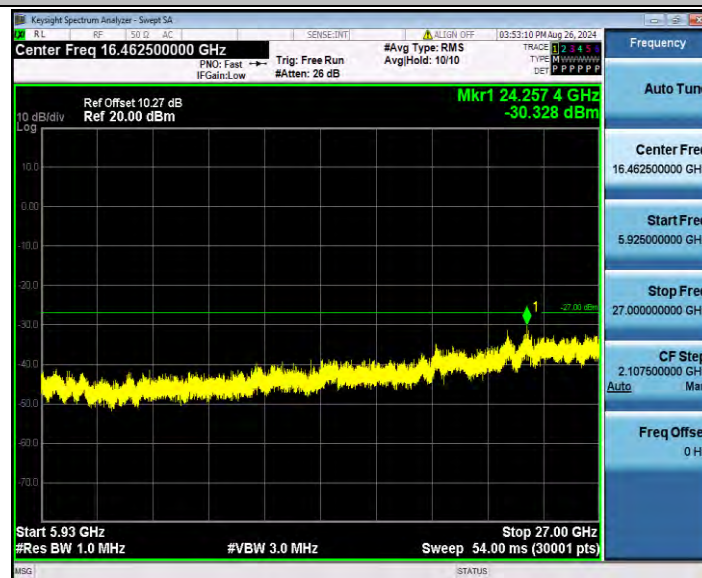
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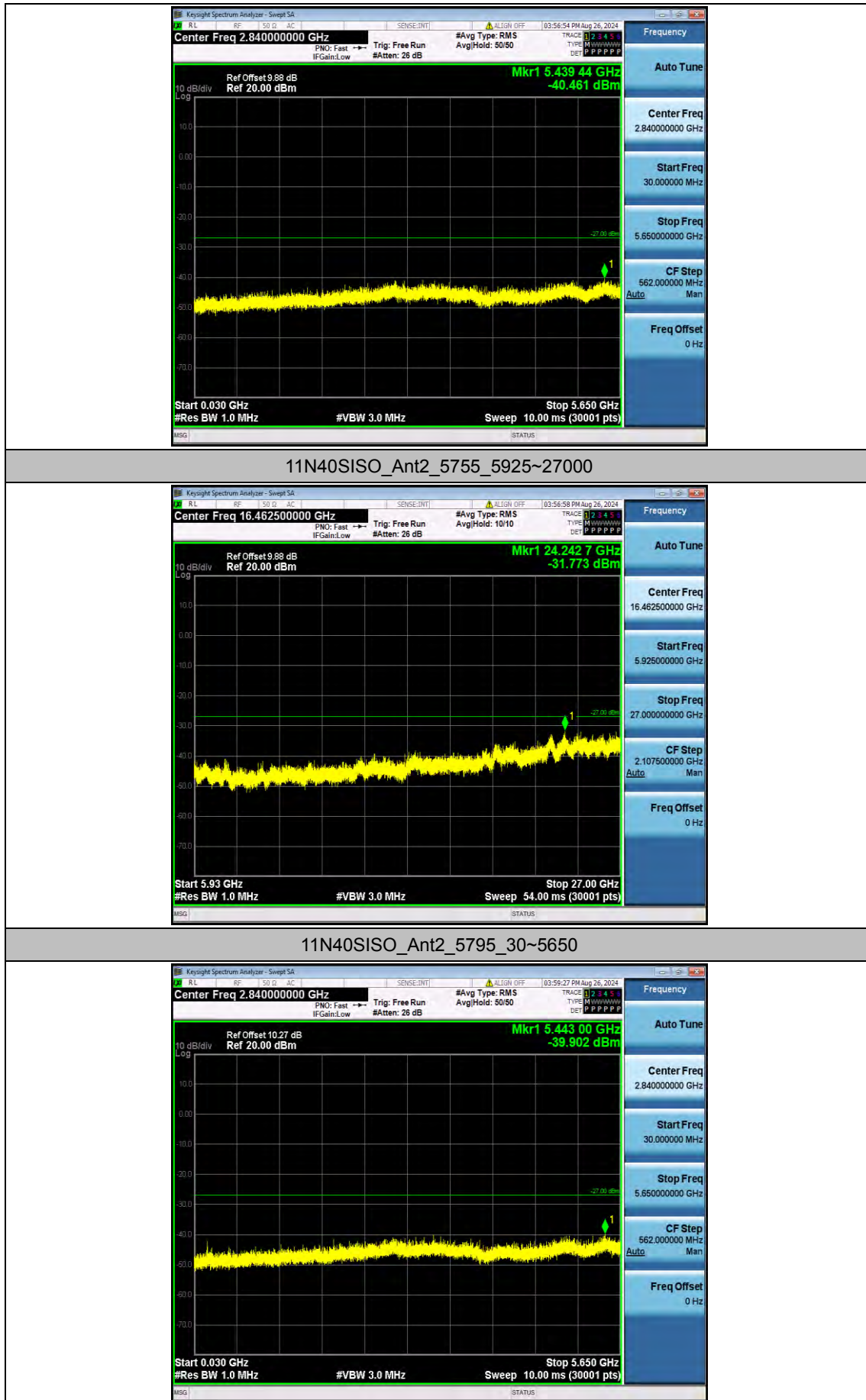
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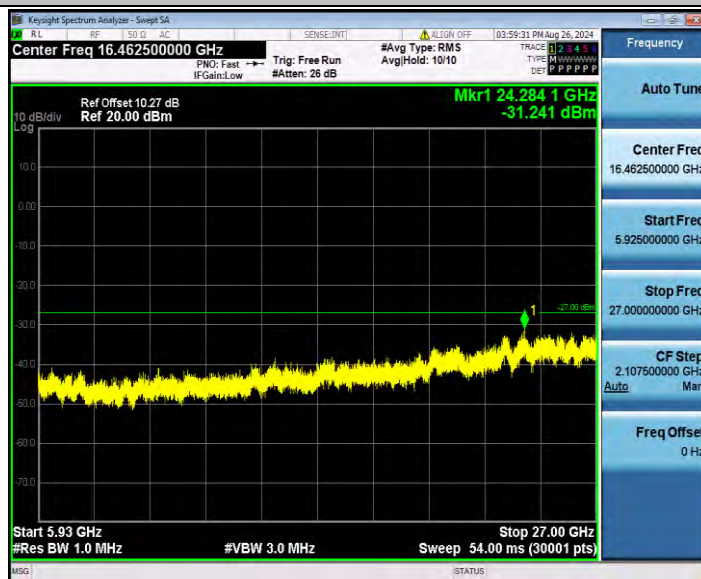
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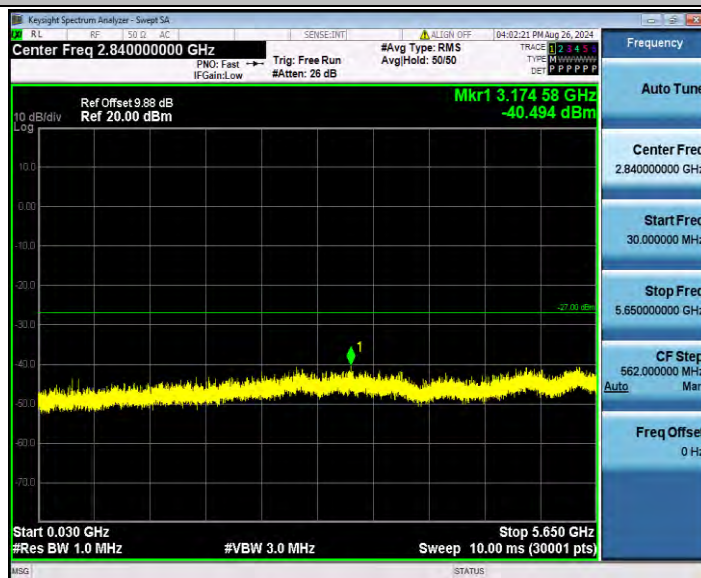
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11N40SISO_Ant2_5795_5925~27000



11AC20SISO_Ant2_5745_30~5650



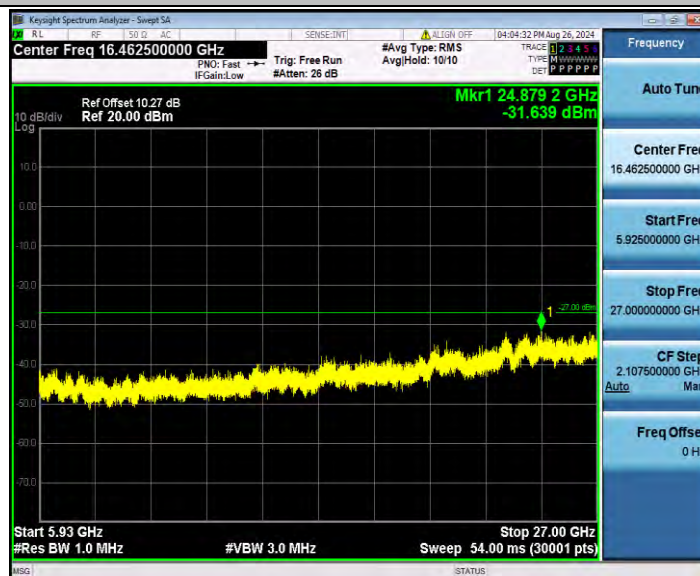
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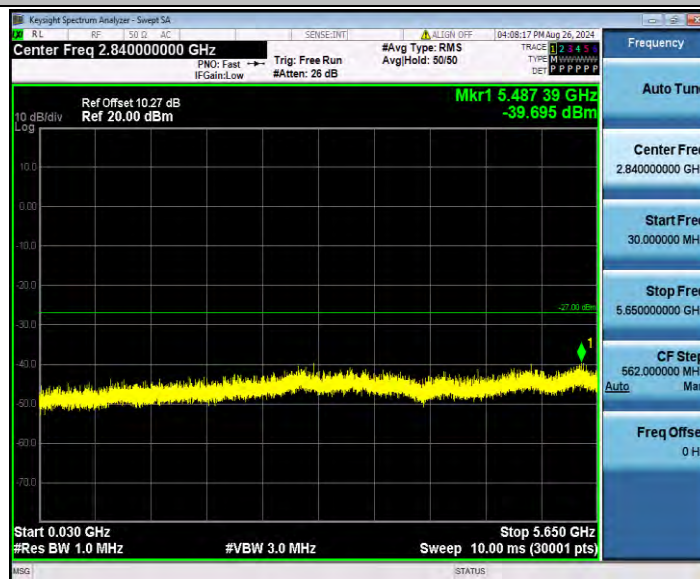
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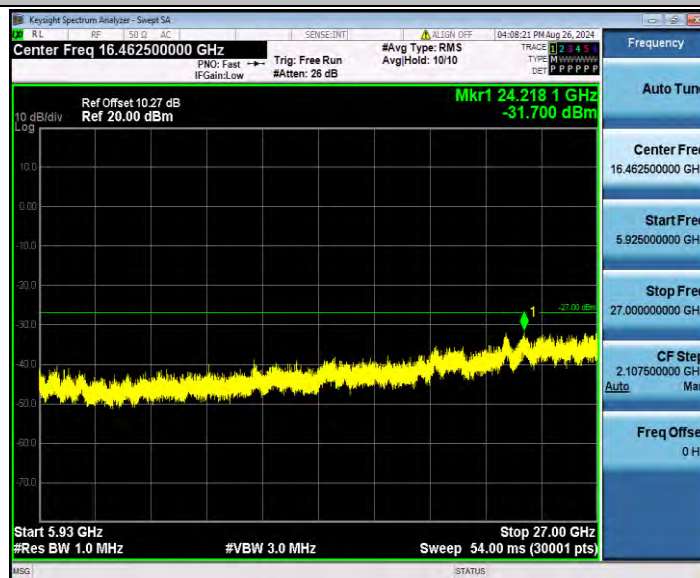
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11AC20SISO_Ant2_5825_30~5650



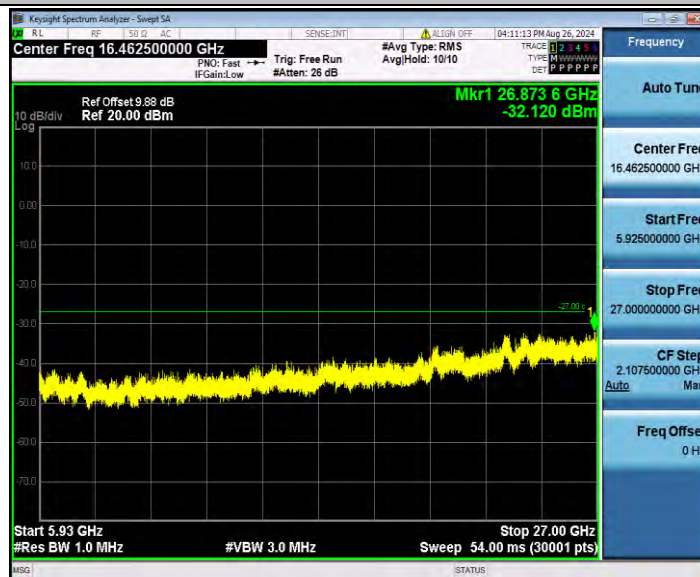
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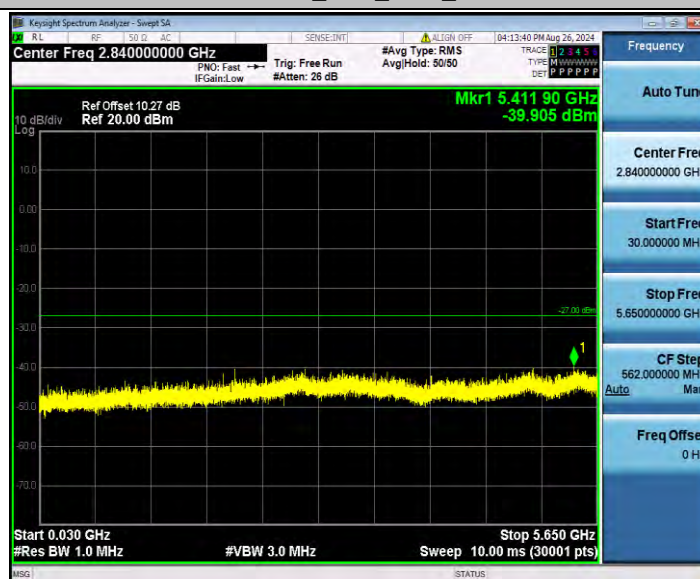
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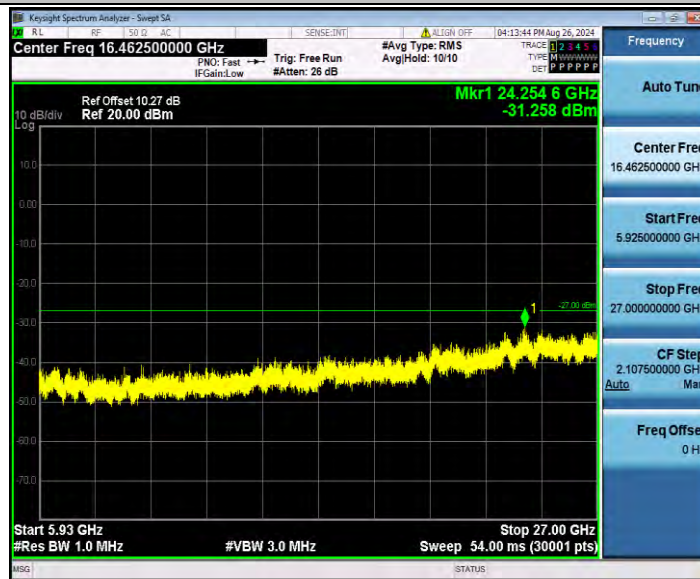
11AC40SISO_Ant2_5755_5925~27000



11AC40SISO_Ant2_5795_30~5650



11AC40SISO_Ant2_5795_5925~27000



11AC80SISO_Ant2_5775_30~5650



11AC80SISO_Ant2_5775_5925~27000

