

Case No. : <u>GTS20230302021-1-4</u>	
Ambient Condition: <u>23</u> °C, <u>48</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.4.3</u>	Test Engineer: <u>Jenny zeng</u>

Appendix E.1: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.210	5736.290	5753.500	---	---
		5785	17.419	5776.210	5793.629	---	---
		5825	18.867	5816.008	5834.875	---	---
11N20SISO	Ant1	5745	18.032	5735.935	5753.967	---	---
		5785	18.150	5775.924	5794.074	---	---
		5825	18.137	5815.940	5834.077	---	---
11N40SISO	Ant1	5755	36.726	5736.690	5773.416	---	---
		5795	36.850	5776.662	5813.512	---	---
11AC20SISO	Ant1	5745	18.044	5735.948	5753.992	---	---
		5785	18.188	5775.909	5794.097	---	---
		5825	18.986	5815.750	5834.736	---	---
11AC40SISO	Ant1	5755	36.898	5736.651	5773.549	---	---
		5795	37.120	5776.585	5813.705	---	---
11AC80SISO	Ant1	5775	75.690	5737.250	5812.940	---	---

Test Graphs

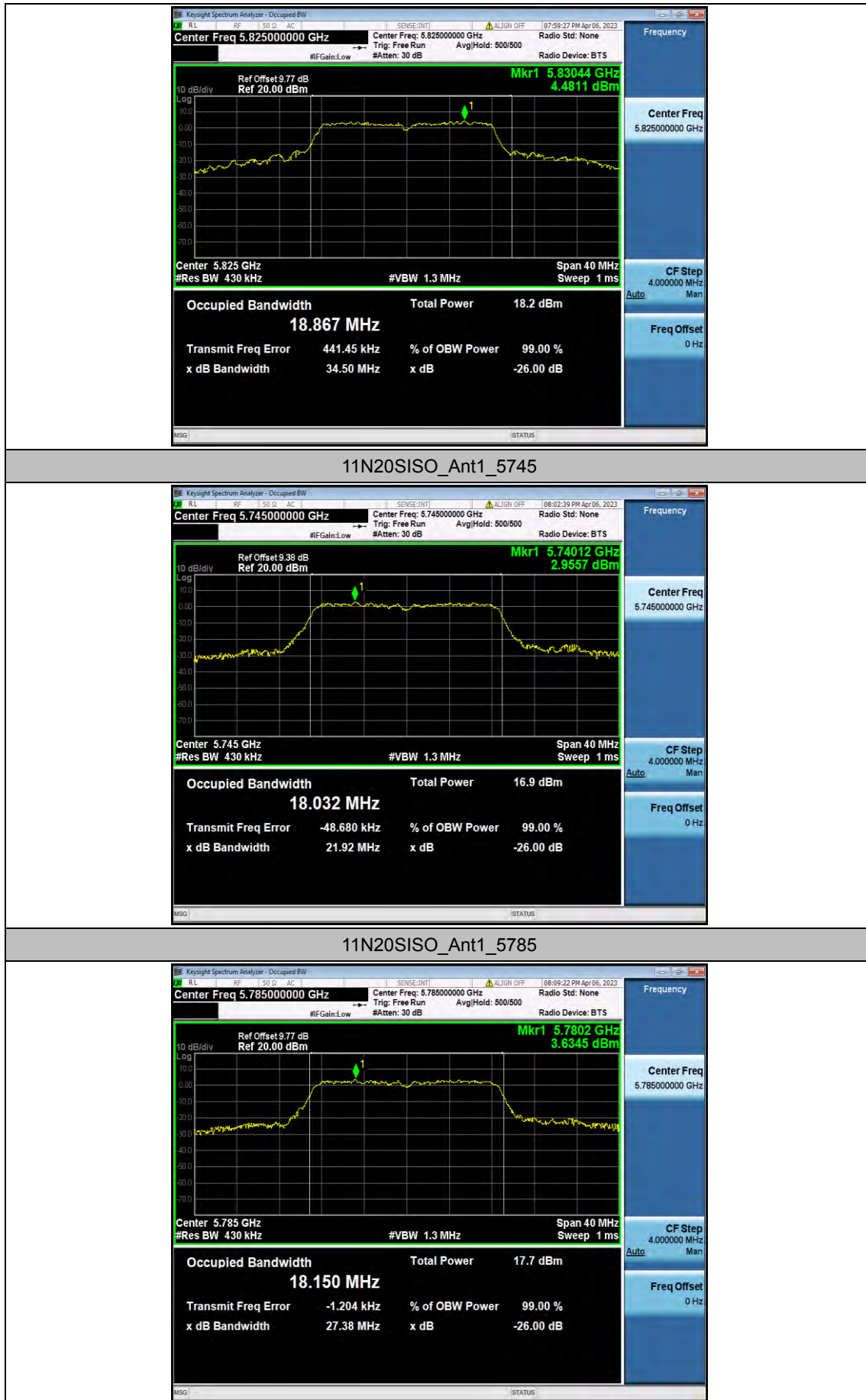
11A_Ant1_5745



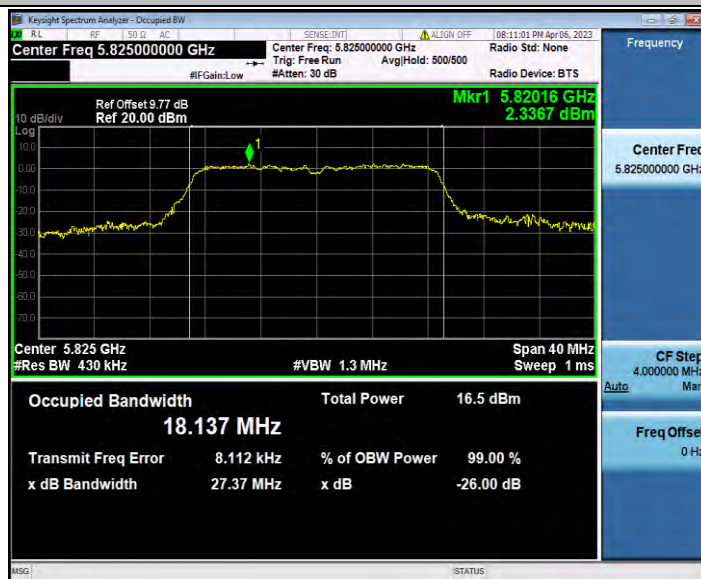
11A_Ant1_5785



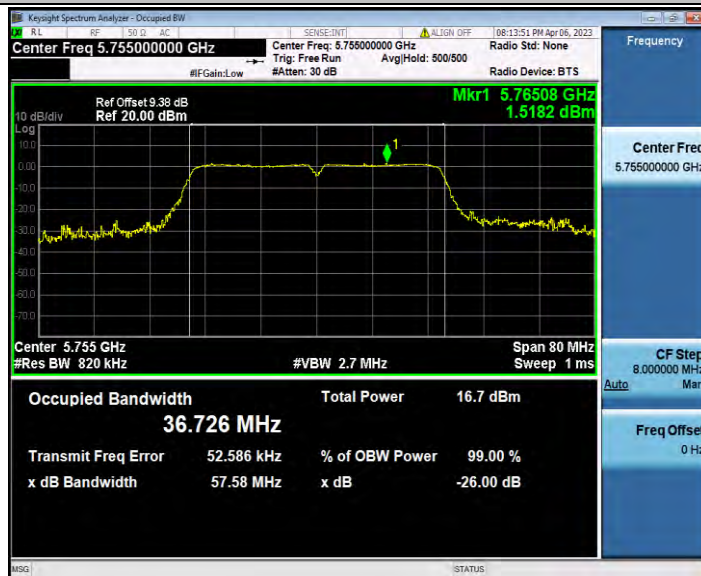
11A_Ant1_5825



11N20SISO_Ant1_5825



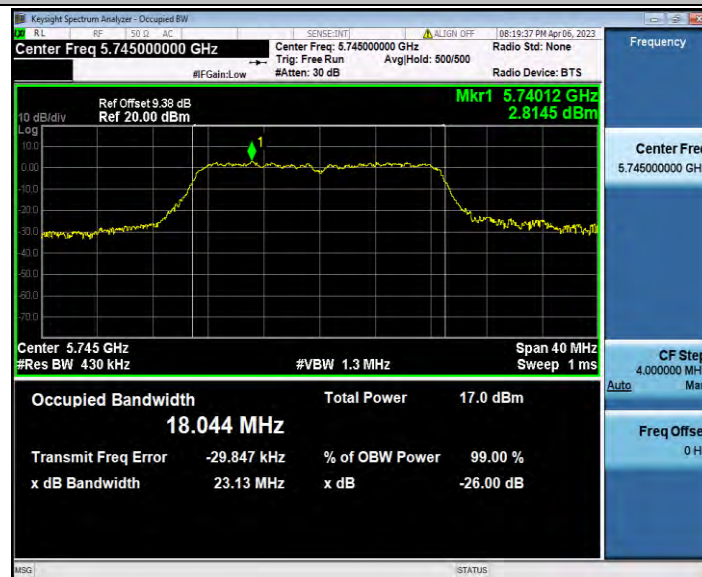
11N40SISO_Ant1_5755



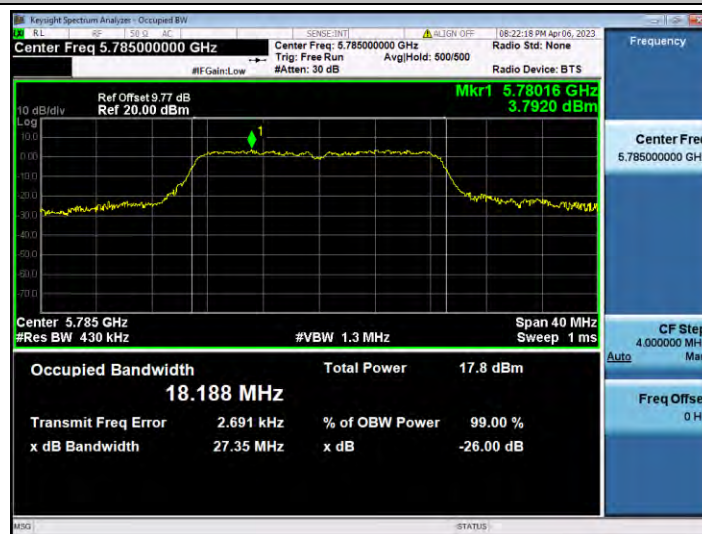
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



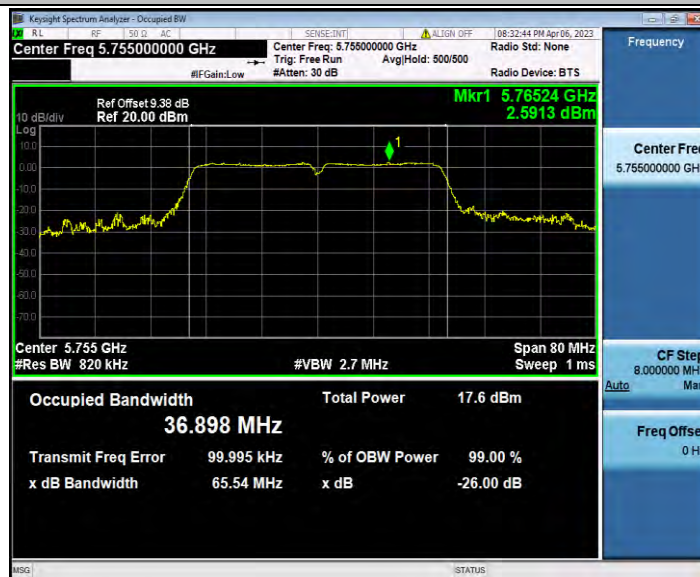
11AC20SISO_Ant1_5785



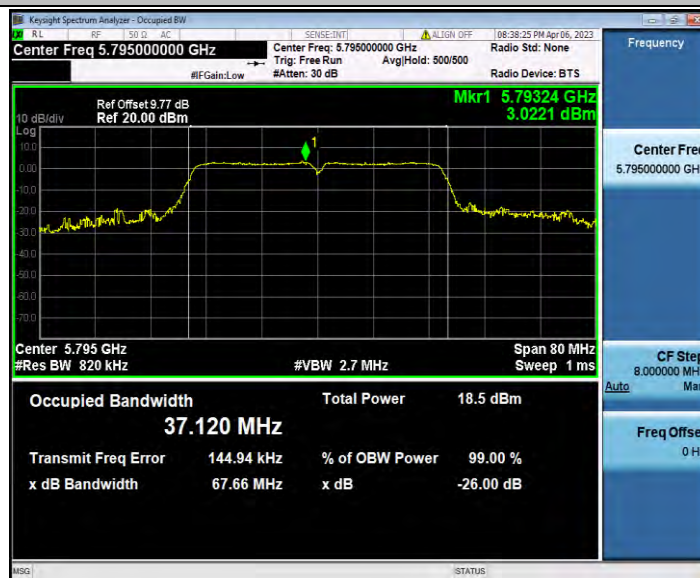
11AC20SISO_Ant1_5825

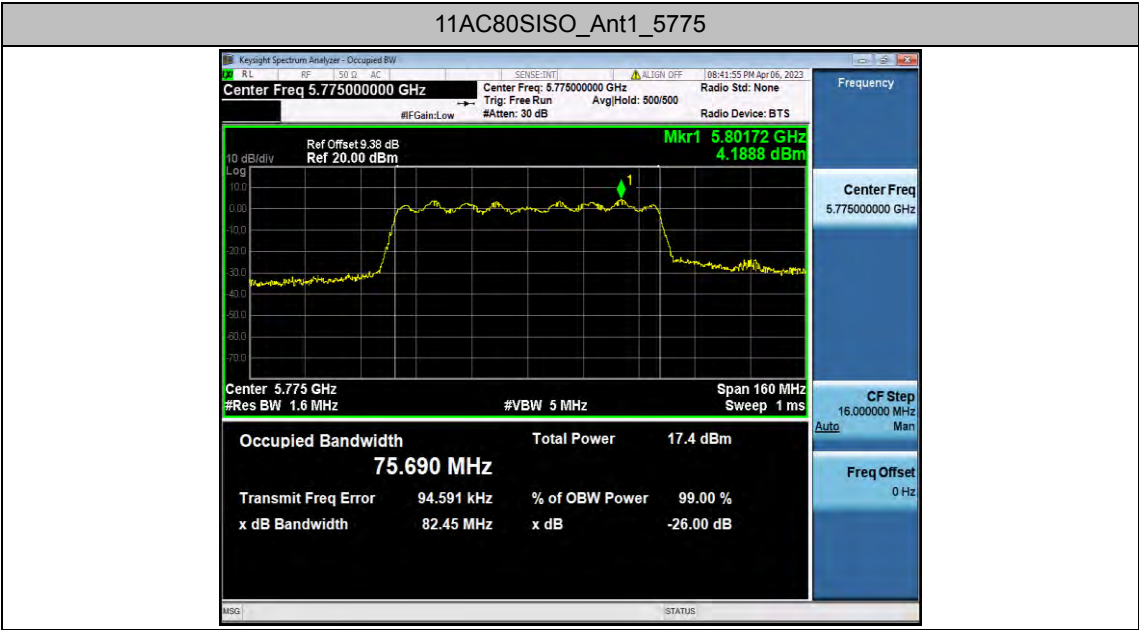


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



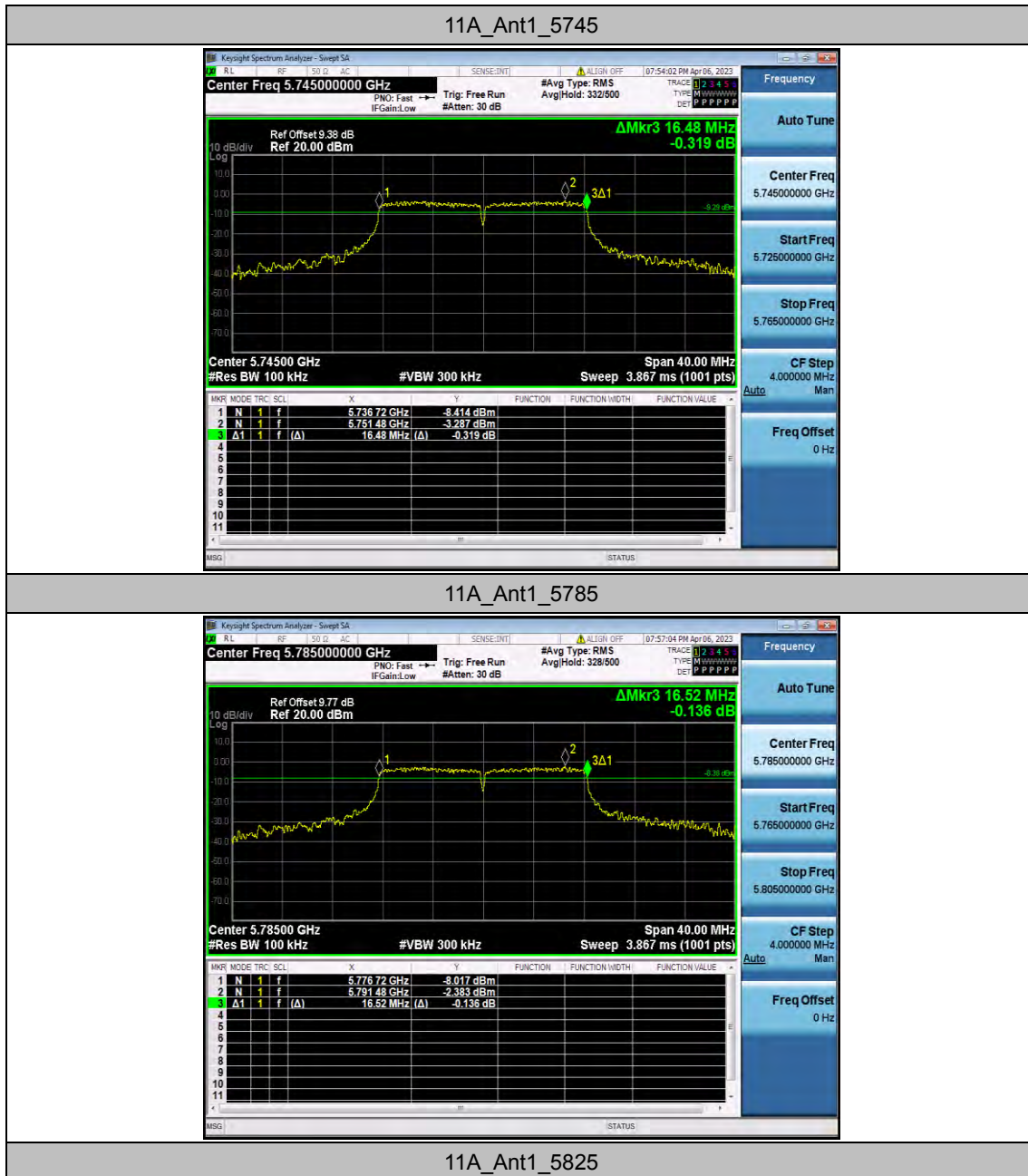


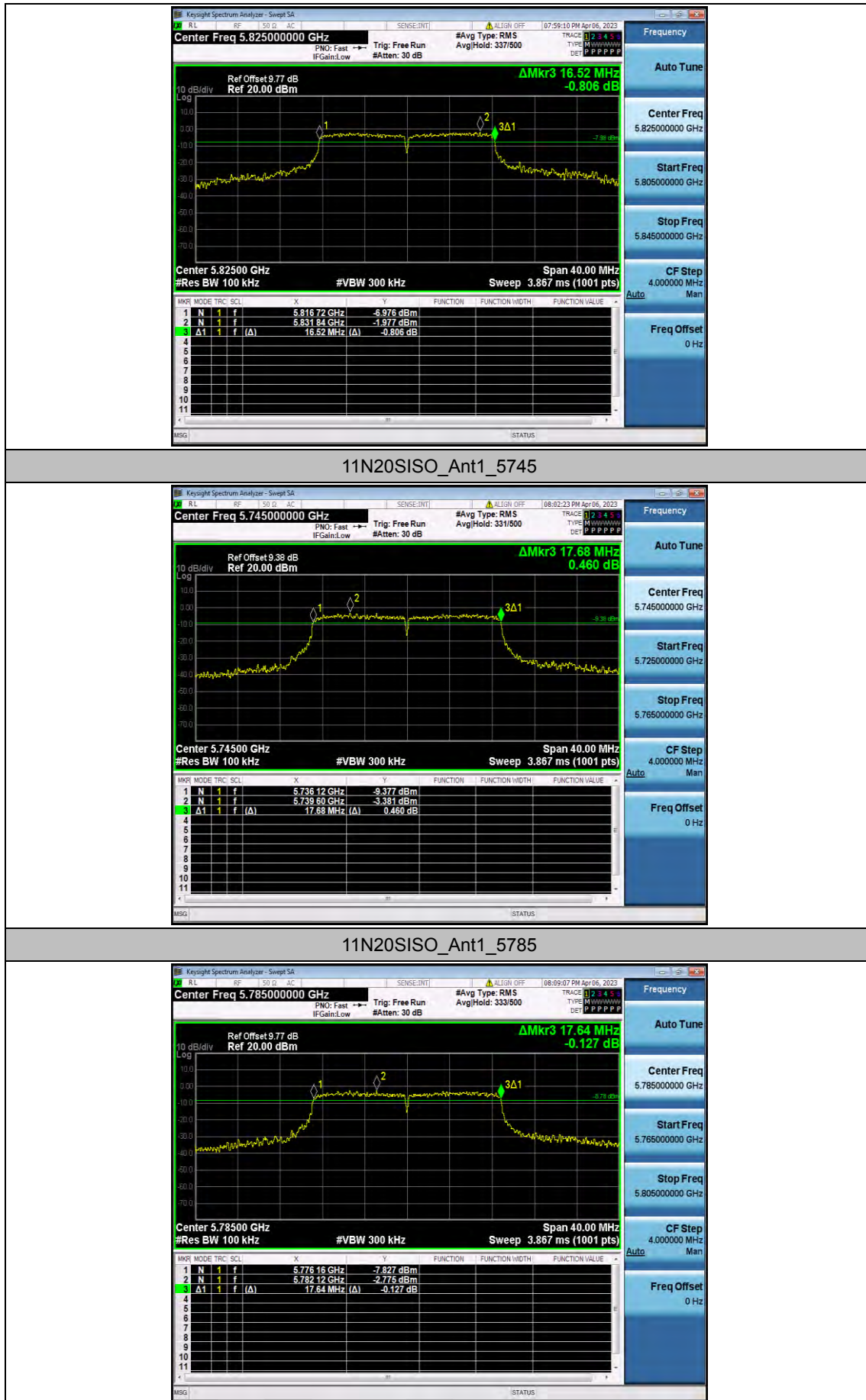
Appendix E.2: Min emission bandwidth

Test Result B4

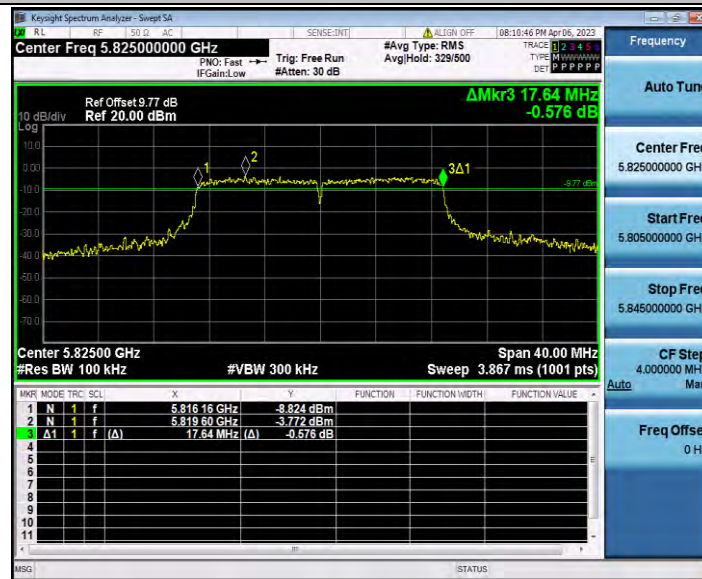
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.480	5736.720	5753.200	0.5	PASS
		5785	16.520	5776.720	5793.240	0.5	PASS
		5825	16.520	5816.720	5833.240	0.5	PASS
11N20SISO	Ant1	5745	17.680	5736.120	5753.800	0.5	PASS
		5785	17.640	5776.160	5793.800	0.5	PASS
		5825	17.640	5816.160	5833.800	0.5	PASS
11N40SISO	Ant1	5755	36.400	5736.760	5773.160	0.5	PASS
		5795	36.400	5776.760	5813.160	0.5	PASS
11AC20SISO	Ant1	5745	17.680	5736.120	5753.800	0.5	PASS
		5785	17.640	5776.160	5793.800	0.5	PASS
		5825	17.680	5816.160	5833.840	0.5	PASS
11AC40SISO	Ant1	5755	36.400	5736.760	5773.160	0.5	PASS
		5795	36.400	5776.760	5813.160	0.5	PASS
11AC80SISO	Ant1	5775	76.320	5736.760	5813.080	0.5	PASS

Test Graphs B4

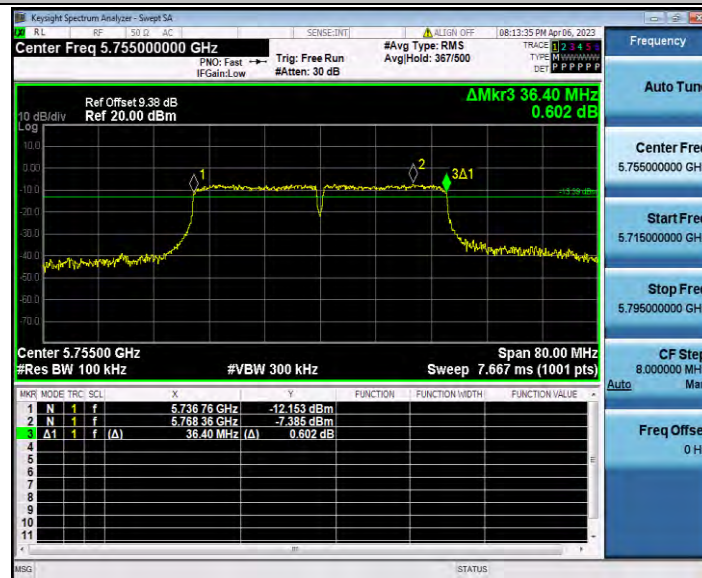




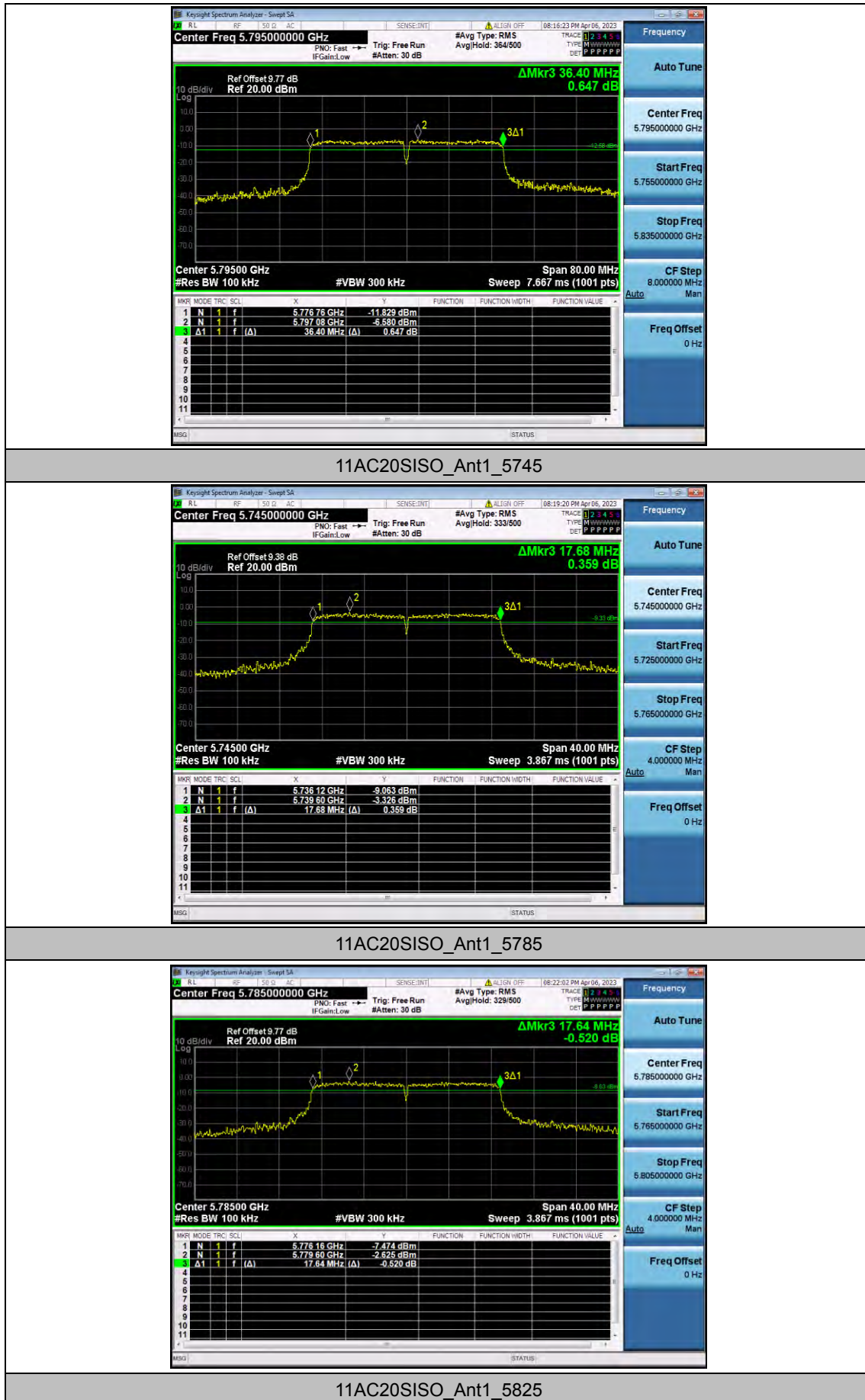
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755

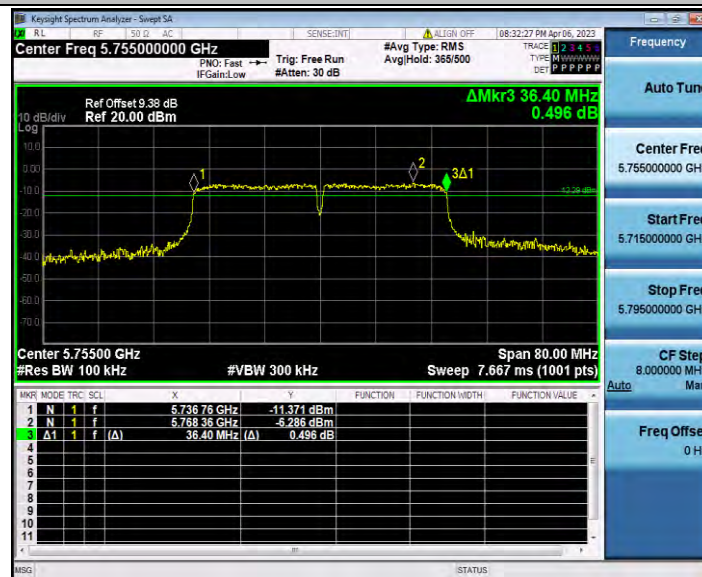


11N40SISO_Ant1_5795



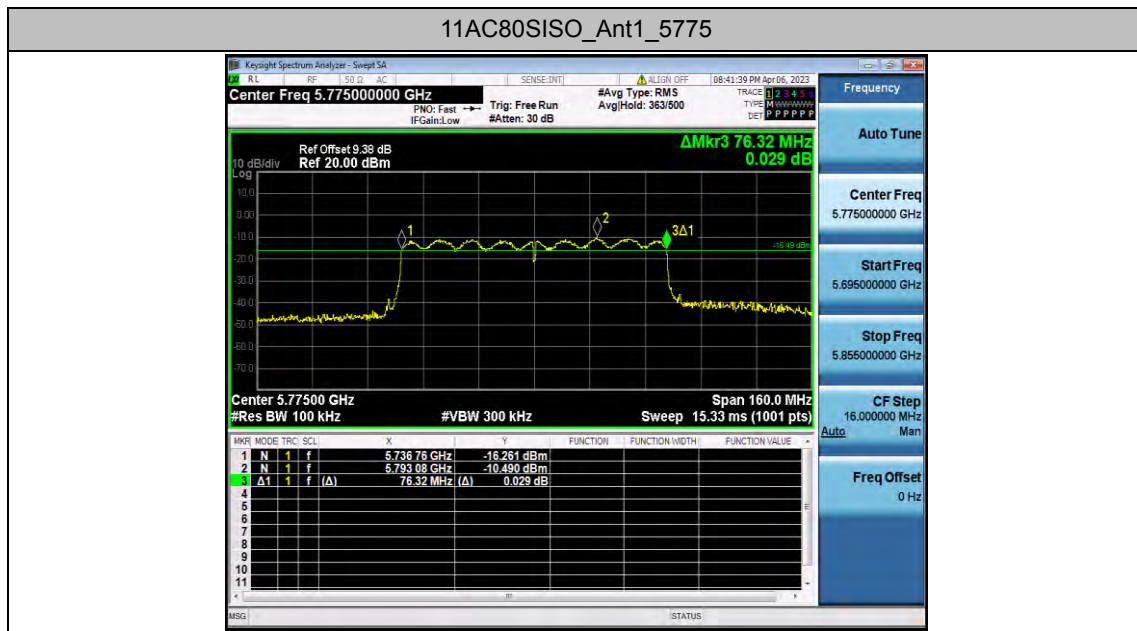


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





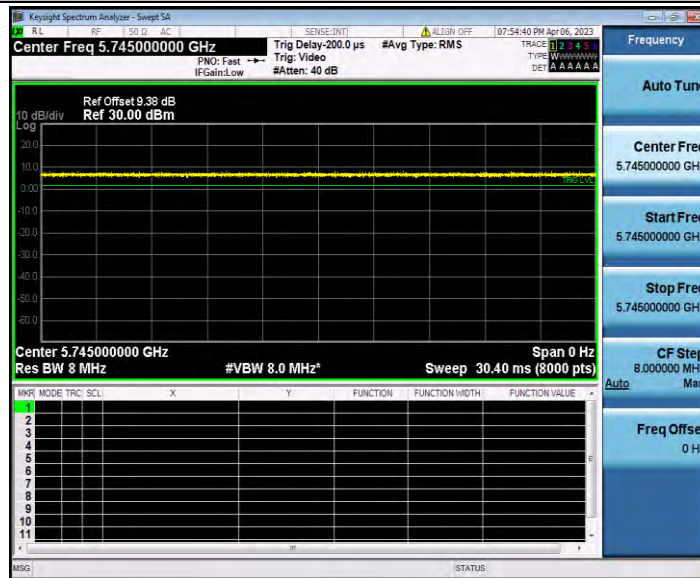
Appendix E.3: Duty Cycle

Test Result

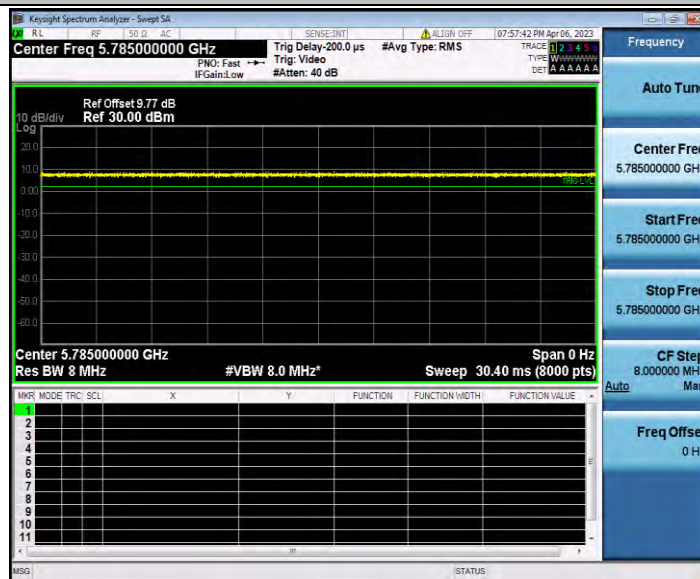
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	30.00	30.00	100.00
		5785	30.00	30.00	100.00
		5825	30.00	30.00	100.00
11N20SISO	Ant1	5745	30.00	30.00	100.00
		5785	30.00	30.00	100.00
		5825	30.00	30.00	100.00
11N40SISO	Ant1	5755	30.00	30.00	100.00
		5795	30.00	30.00	100.00
11AC20SISO	Ant1	5745	30.00	30.00	100.00
		5785	30.00	30.00	100.00
		5825	30.00	30.00	100.00
11AC40SISO	Ant1	5755	30.00	30.00	100.00
		5795	30.00	30.00	100.00
11AC80SISO	Ant1	5775	30.00	30.00	100.00

Test Graphs

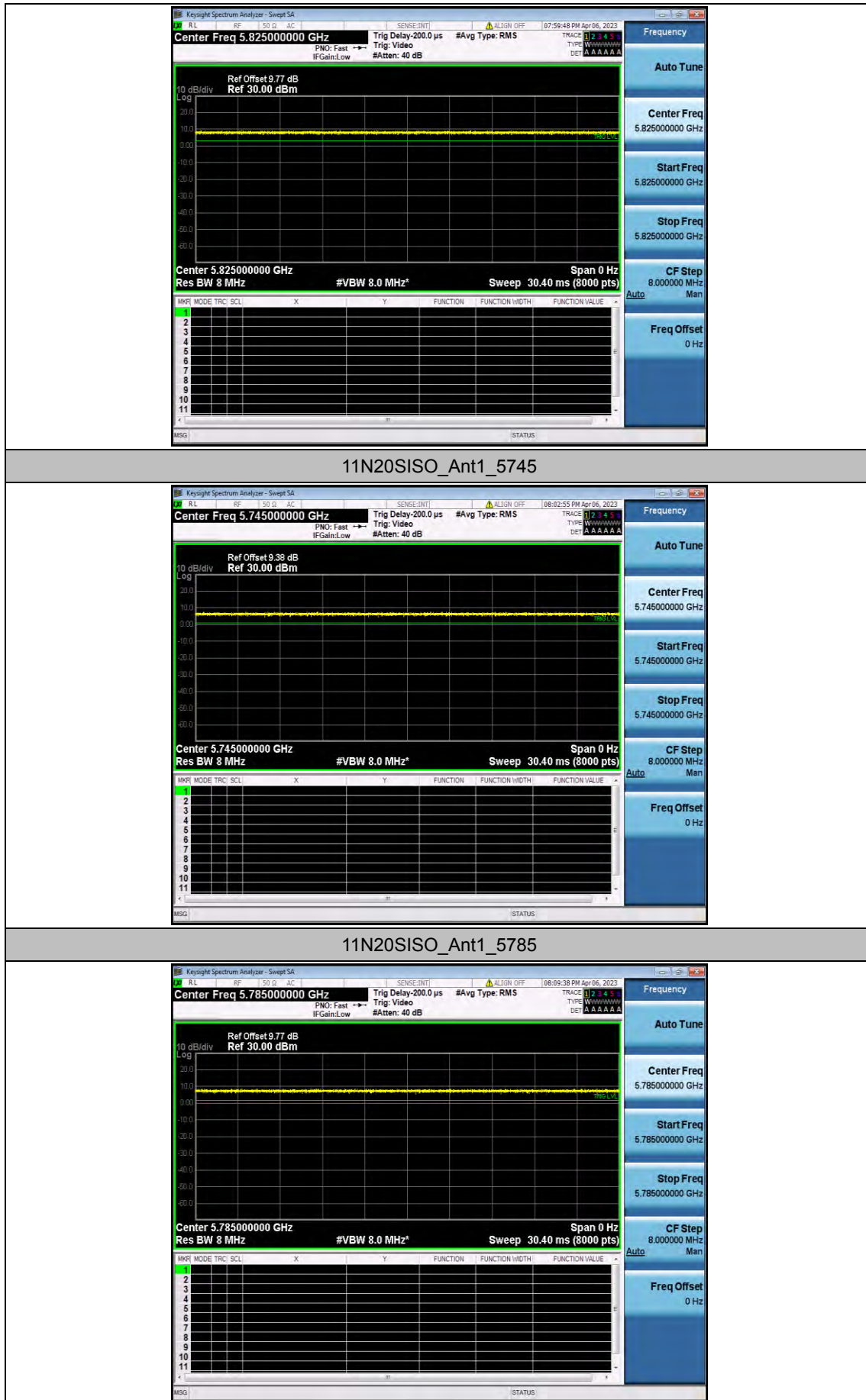
11A_Ant1_5745



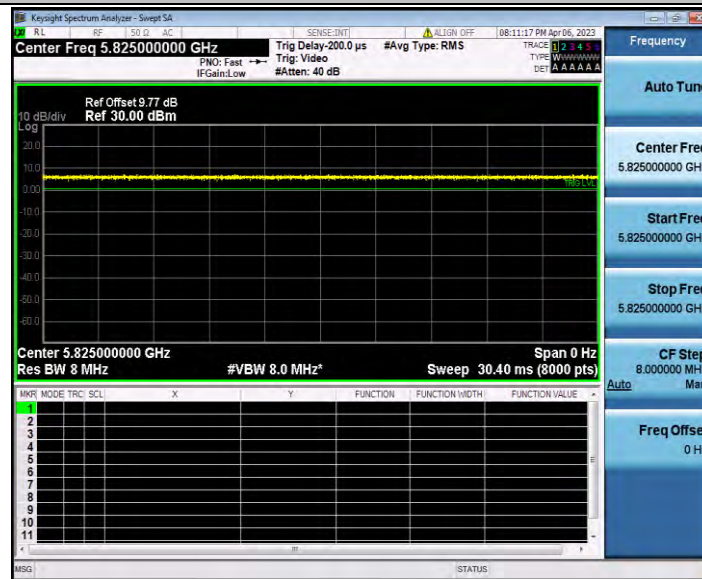
11A_Ant1_5785



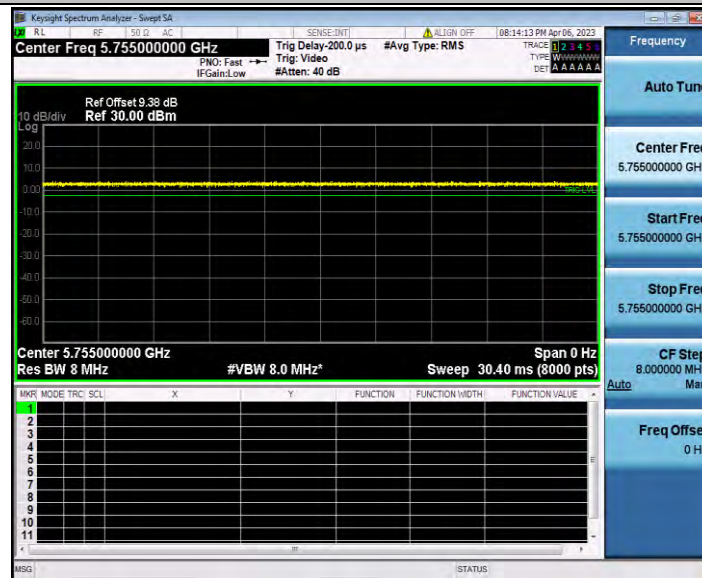
11A_Ant1_5825



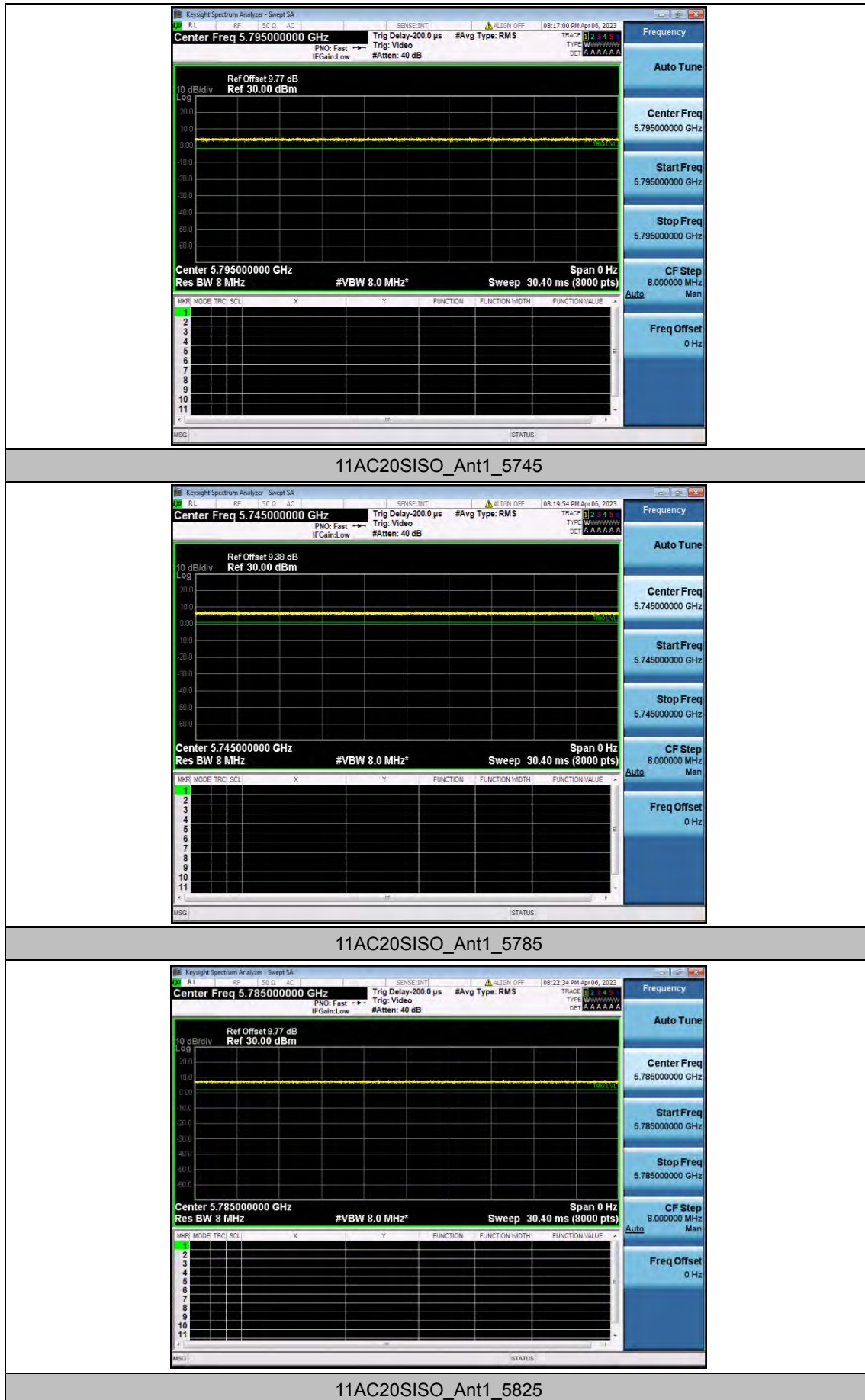
11N20SISO_Ant1_5825

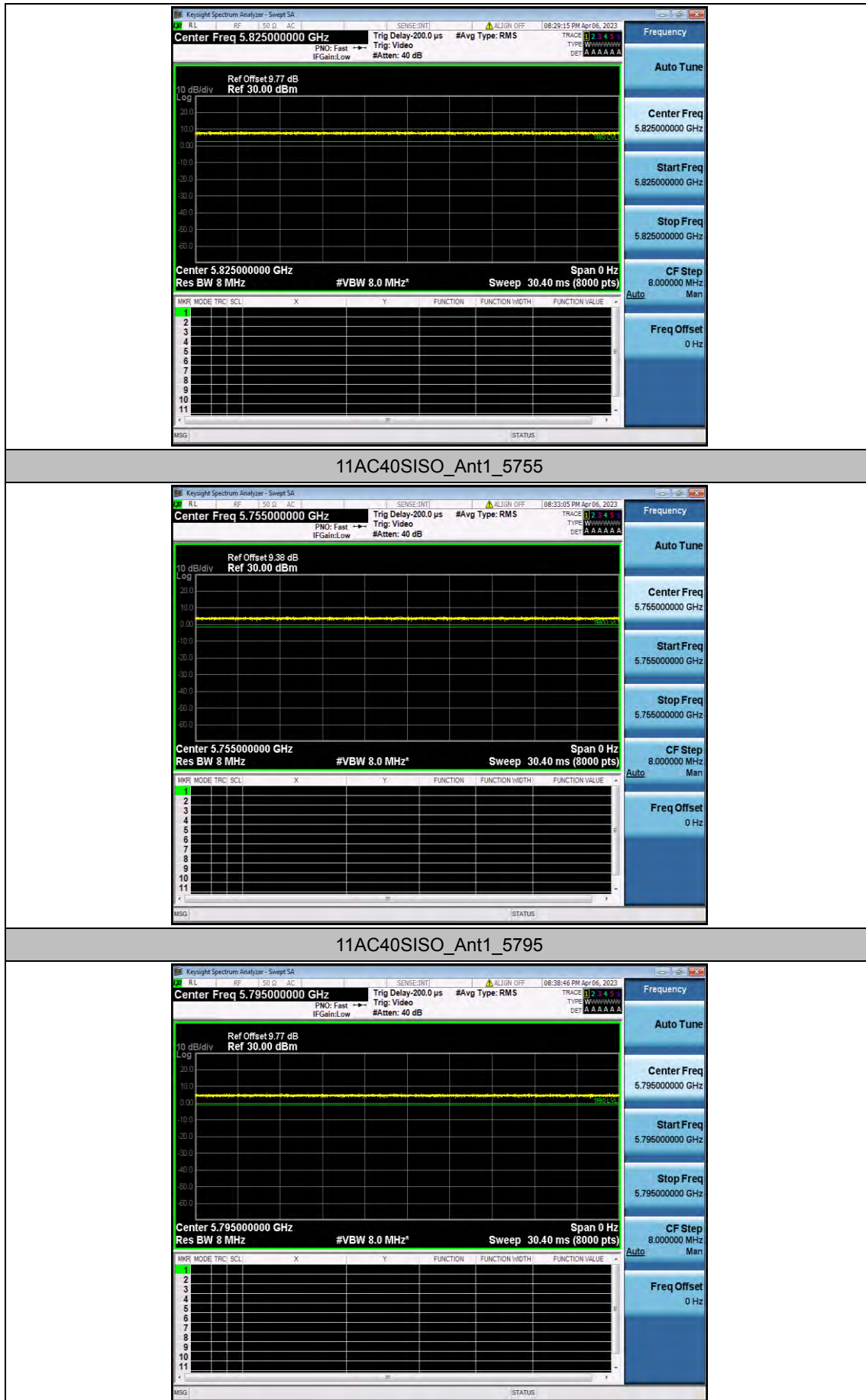


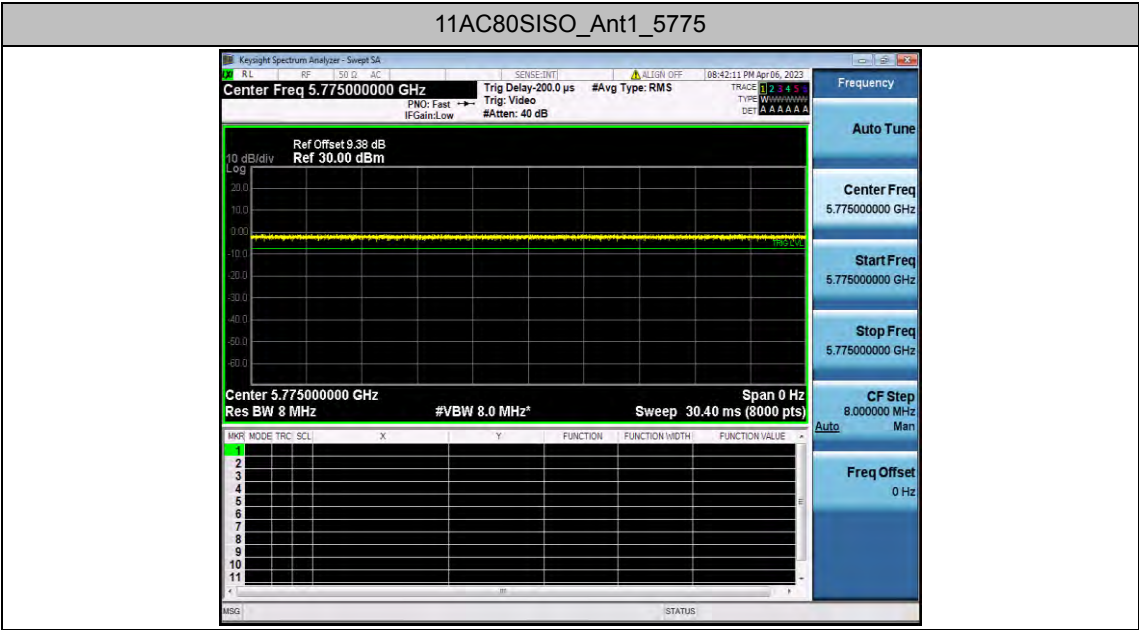
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795







Appendix E.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[M Hz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	10.19	100.00	0.00	10.19	≤30.00	PASS
		5785	11.18	100.00	0.00	11.18	≤30.00	PASS
		5825	11.58	100.00	0.00	11.58	≤30.00	PASS
11N20SISO	Ant1	5745	10.12	100.00	0.00	10.12	≤30.00	PASS
		5785	10.99	100.00	0.00	10.99	≤30.00	PASS
		5825	9.84	100.00	0.00	9.84	≤30.00	PASS
11N40SISO	Ant1	5755	9.49	100.00	0.00	9.49	≤30.00	PASS
		5795	10.39	100.00	0.00	10.39	≤30.00	PASS
11AC20SISO	Ant1	5745	10.20	100.00	0.00	10.20	≤30.00	PASS
		5785	11.09	100.00	0.00	11.09	≤30.00	PASS
		5825	11.61	100.00	0.00	11.61	≤30.00	PASS
11AC40SISO	Ant1	5755	10.35	100.00	0.00	10.35	≤30.00	PASS
		5795	11.27	100.00	0.00	11.27	≤30.00	PASS
11AC80SISO	Ant1	5775	8.53	100.00	0.00	8.53	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the graph.

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-4.19	≤30.00	PASS
		5785	-3.15	≤30.00	PASS
		5825	-2.55	≤30.00	PASS
11N20SISO	Ant1	5745	-4.43	≤30.00	PASS
		5785	-3.35	≤30.00	PASS
		5825	-4.66	≤30.00	PASS
11N40SISO	Ant1	5755	-7.93	≤30.00	PASS
		5795	-7.24	≤30.00	PASS
11AC20SISO	Ant1	5745	-4.36	≤30.00	PASS
		5785	-3.36	≤30.00	PASS
		5825	-2.8	≤30.00	PASS
11AC40SISO	Ant1	5755	-7.15	≤30.00	PASS
		5795	-6.4	≤30.00	PASS
11AC80SISO	Ant1	5775	-10.85	≤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

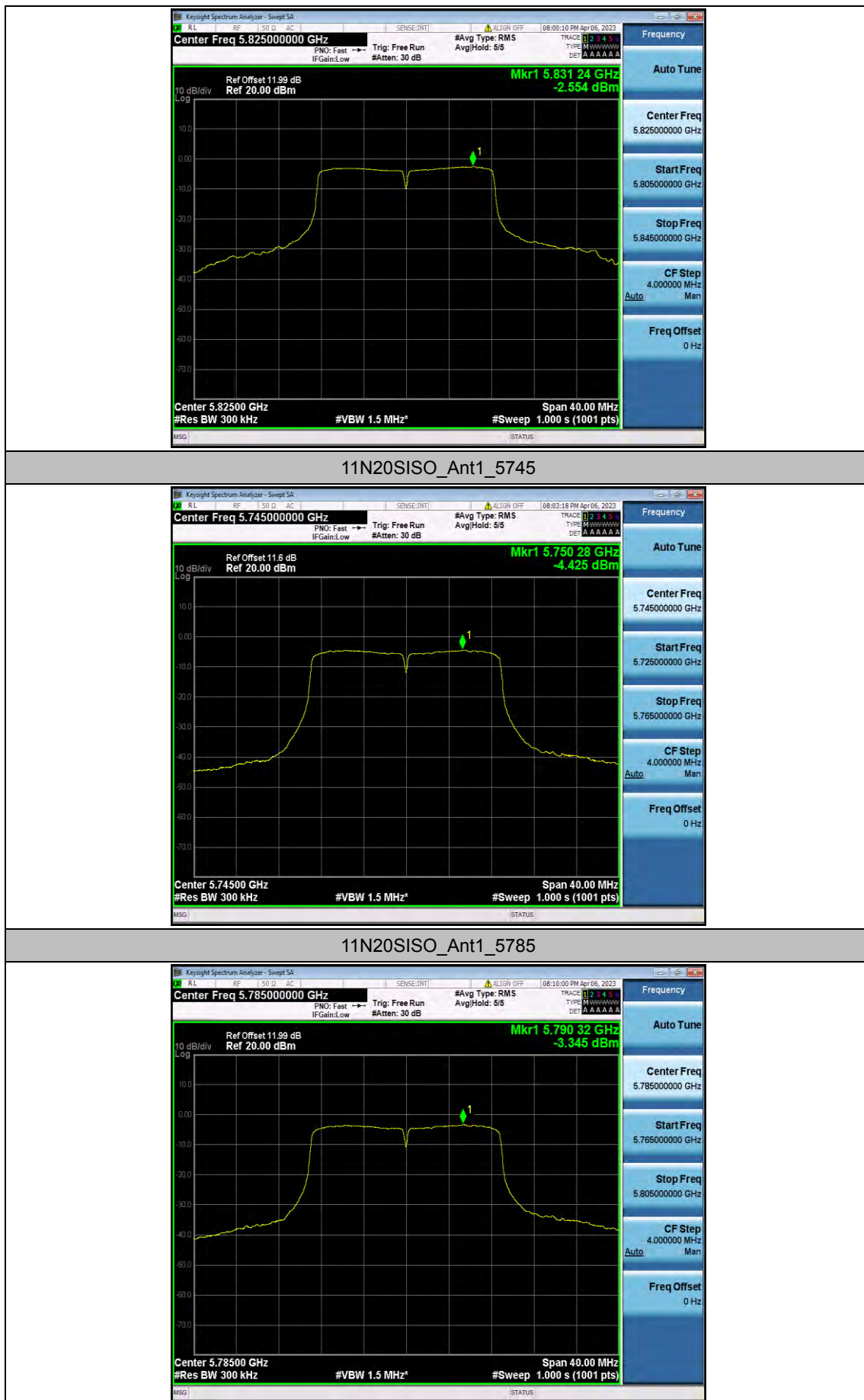
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



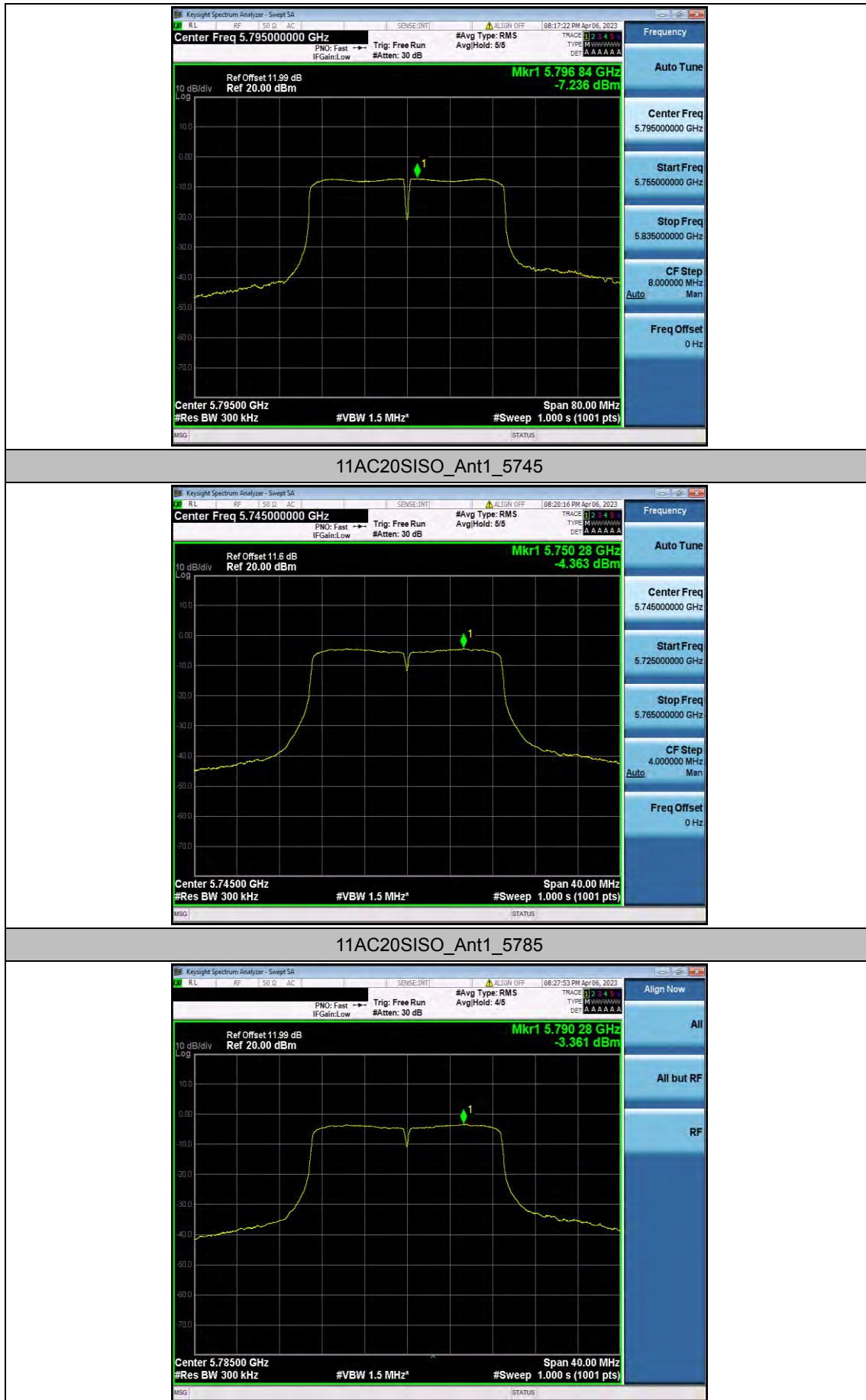
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-38.74	≤7.25	PASS
				5700~5720	-33.5	≤14.73	PASS
				5720~5725	-28.08	≤26.30	PASS
				5760~5650	-39.99	≤-27	PASS
		High	5825	5850~5855	-27.97	≤17.33	PASS
				5855~5875	-30.83	≤10.82	PASS
				5875~5925	-37.71	≤-14.27	PASS
				5925~5935	-39.17	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-38.84	≤-5.34	PASS
				5700~5720	-30.34	≤15.56	PASS
				5720~5725	-24.69	≤26.04	PASS
				5760~5650	-39.78	≤-27	PASS
		High	5825	5850~5855	-30.93	≤16.10	PASS
				5855~5875	-34.72	≤10.55	PASS
				5875~5925	-37.86	≤-3.18	PASS
				5925~5935	-39	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-36.54	≤6.56	PASS
				5700~5720	-25.84	≤15.31	PASS
				5720~5725	-27.81	≤25.28	PASS
				5780~5650	-39.63	≤-27	PASS
		High	5795	5850~5855	-35.27	≤22.43	PASS
				5855~5875	-37.26	≤10.22	PASS
				5875~5925	-38.33	≤-25.21	PASS
				5925~5935	-38.63	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-38.94	≤7.60	PASS
				5700~5720	-31.42	≤14.60	PASS
				5720~5725	-25.17	≤24.21	PASS
				5760~5650	-39.75	≤-27	PASS
		High	5825	5850~5855	-24.85	≤15.79	PASS
				5855~5875	-30.75	≤10.44	PASS
				5875~5925	-38.34	≤-21.96	PASS
				5925~5935	-39.85	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-36.79	≤9.66	PASS
				5700~5720	-24.63	≤15.31	PASS
				5720~5725	-24.82	≤17.89	PASS
				5780~5650	-40.25	≤-27	PASS

		High	5795	5850~5855	-32.18	≤ 22.05	PASS
				5855~5875	-34.35	≤ 10.18	PASS
				5875~5925	-38.13	≤ -21.43	PASS
				5925~5935	-39.18	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-36.76	≤ 7.15	PASS
				5700~5720	-35.47	≤ 14.30	PASS
				5720~5725	-34.06	≤ 26.25	PASS
				5800~5650	-39.19	≤ -27	PASS
		High	5775	5850~5855	-31.19	≤ 26.34	PASS
				5855~5875	-32.48	≤ 10.23	PASS
				5875~5925	-35.83	≤ -26.27	PASS
				5925~5935	-39.52	≤ -27	PASS

Test Graphs B4

11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



11N20SISO_Ant1_High_5825



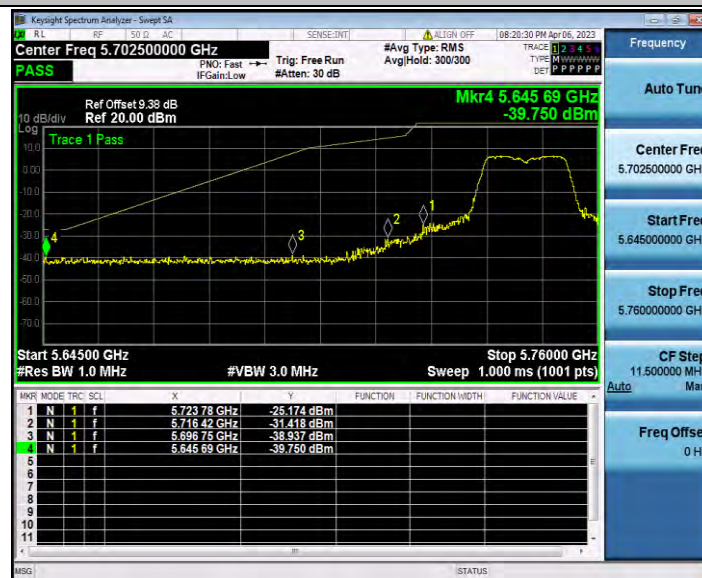
11N40SISO_Ant1_Low_5755



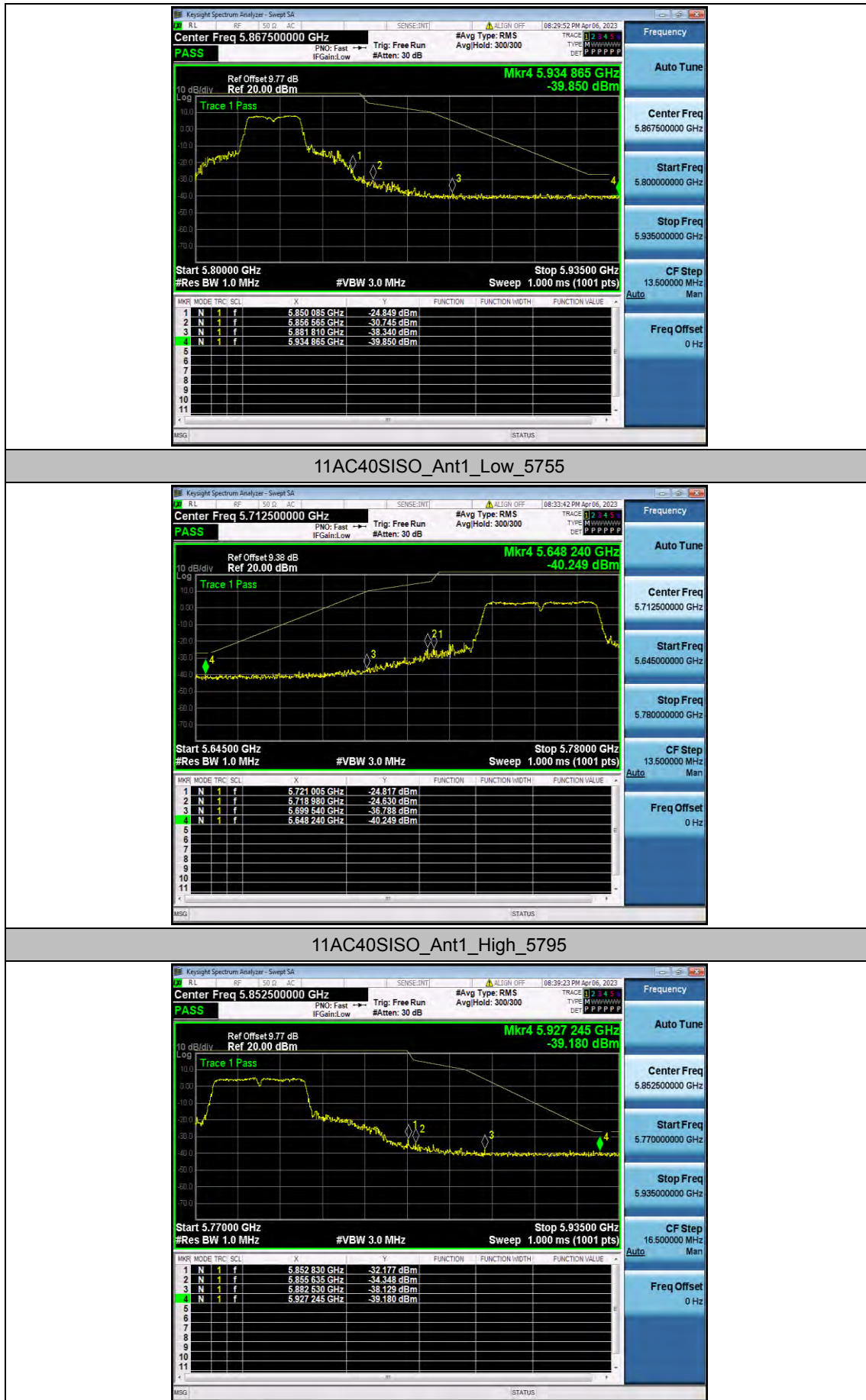
11N40SISO_Ant1_High_5795



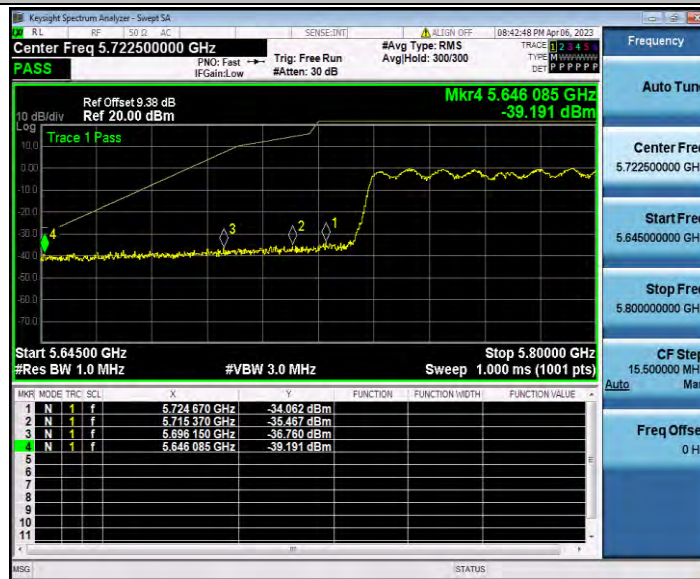
11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



Appendix E.7: Conducted Spurious Emission

Test Result

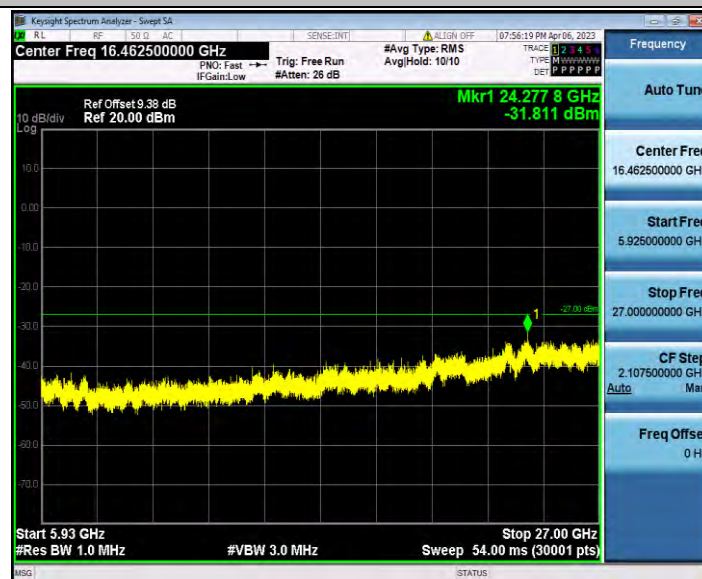
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5428.01	-40.75	≤-27	PASS
			5925~40000	24277.81	-31.81	≤-27	PASS
		5785	30~5650	5456.48	-41.08	≤-27	PASS
			5925~40000	24772.37	-32.5	≤-27	PASS
		5825	30~5650	5457.42	-40.51	≤-27	PASS
			5925~40000	24215.29	-32.09	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5357.57	-41.08	≤-27	PASS
			5925~40000	24770.97	-32.55	≤-27	PASS
		5785	30~5650	5413.59	-39.66	≤-27	PASS
			5925~40000	26610.11	-32.23	≤-27	PASS
		5825	30~5650	4929.7	-40.27	≤-27	PASS
			5925~40000	26125.39	-32.39	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5516.81	-40.79	≤-27	PASS
			5925~40000	26556.02	-32.62	≤-27	PASS
		5795	30~5650	5500.7	-40.21	≤-27	PASS
			5925~40000	24796.96	-32.13	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5480.65	-39.34	≤-27	PASS
			5925~40000	24237.77	-31.92	≤-27	PASS
		5785	30~5650	5586.87	-40.92	≤-27	PASS
			5925~40000	24216.7	-31.13	≤-27	PASS
		5825	30~5650	5413.02	-40.28	≤-27	PASS
			5925~40000	24199.84	-32.34	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5060.84	-40.93	≤-27	PASS
			5925~40000	26069.19	-33.02	≤-27	PASS
		5795	30~5650	5485.52	-41.03	≤-27	PASS
			5925~40000	23509.28	-32.09	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	4974.66	-41.29	≤-27	PASS
			5925~40000	26700.03	-32.43	≤-27	PASS

Test Graphs

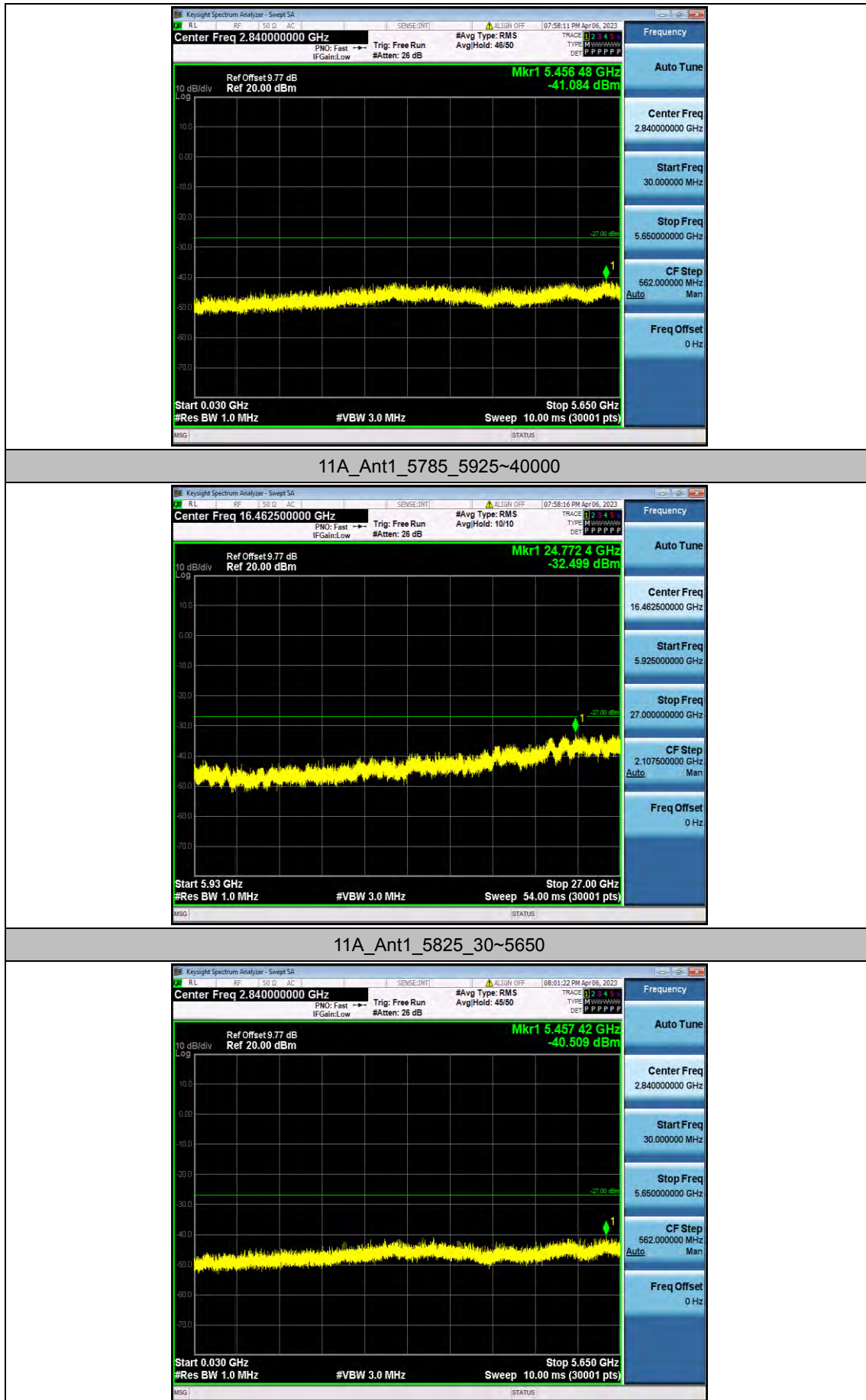
11A_Ant1_5745_30~5650



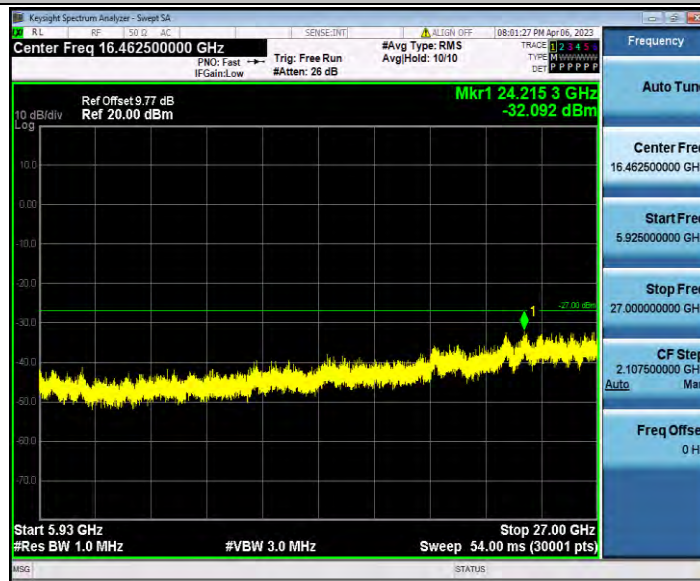
11A_Ant1_5745_5925~40000



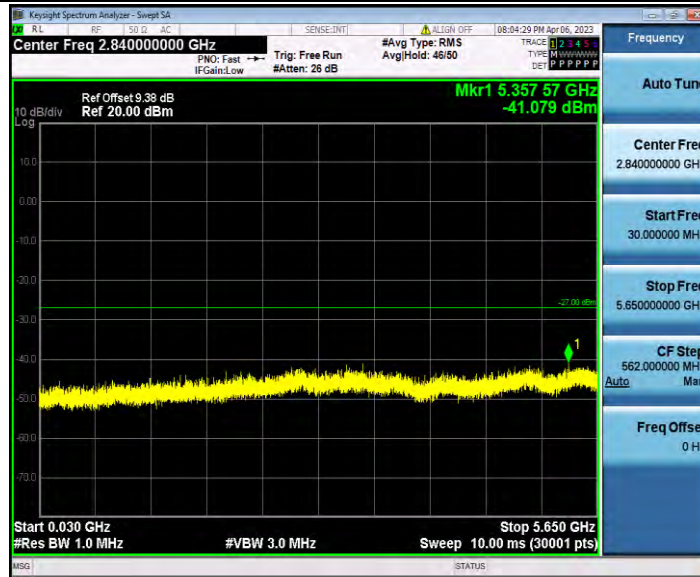
11A_Ant1_5785_30~5650



11A_Ant1_5825_5925~40000



11N20SISO_Ant1_5745_30~5650



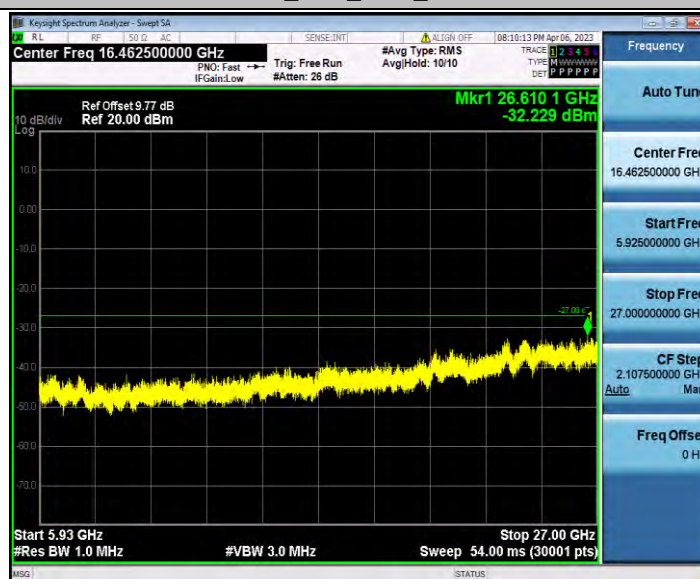
11N20SISO_Ant1_5745_5925~40000



11N20SISO_Ant1_5785_30~5650



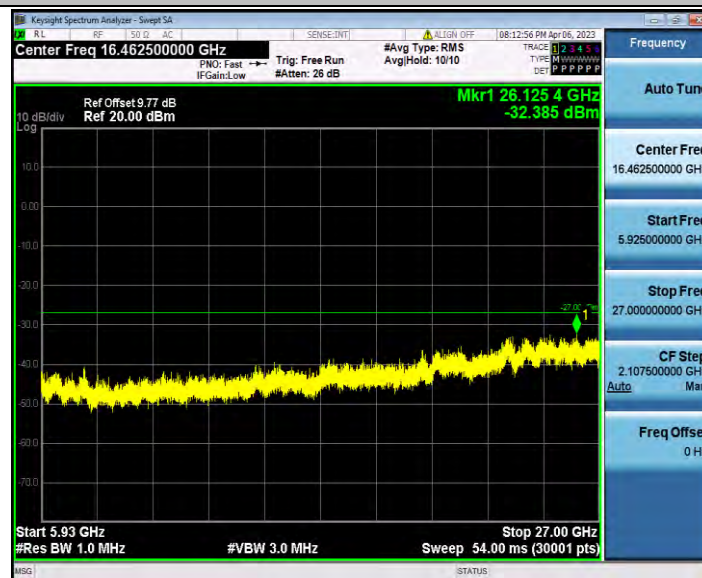
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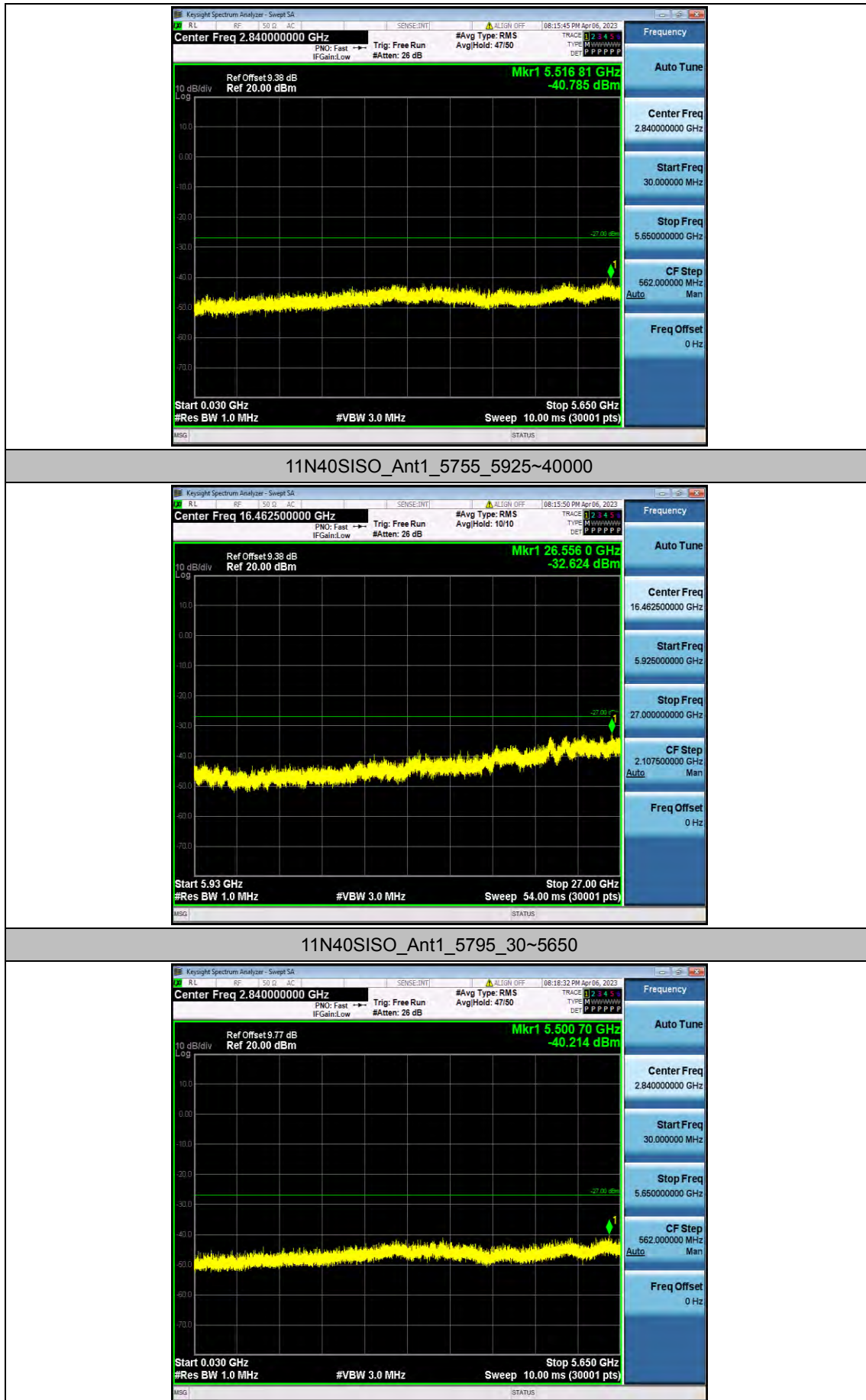
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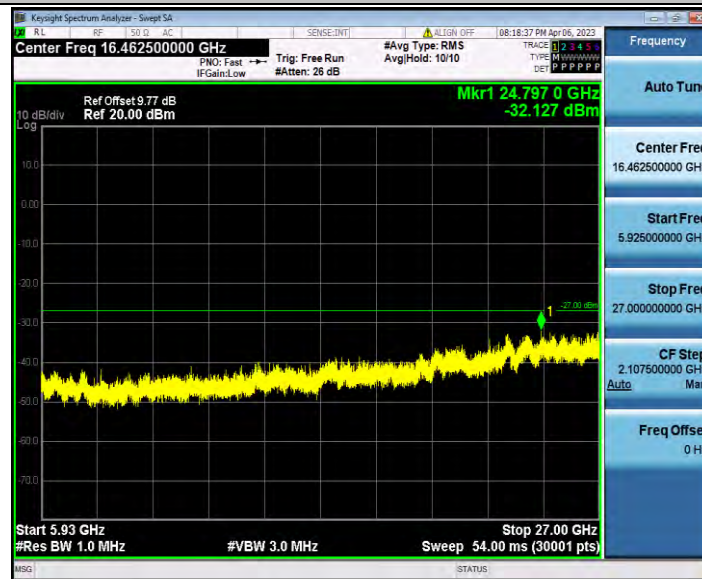
11N20SISO_Ant1_5825_5925~40000



11N40SISO_Ant1_5755_30~5650



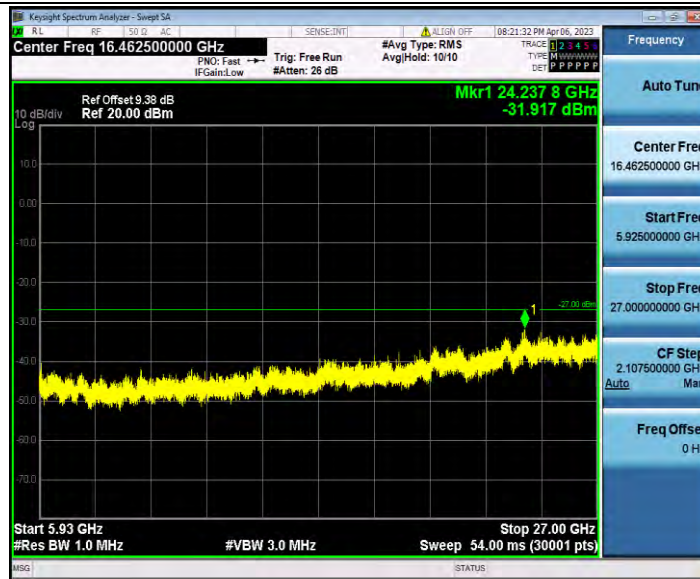
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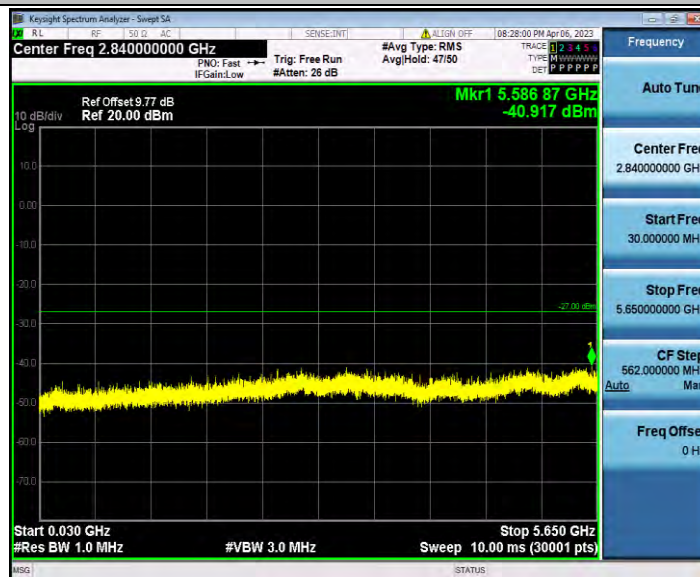
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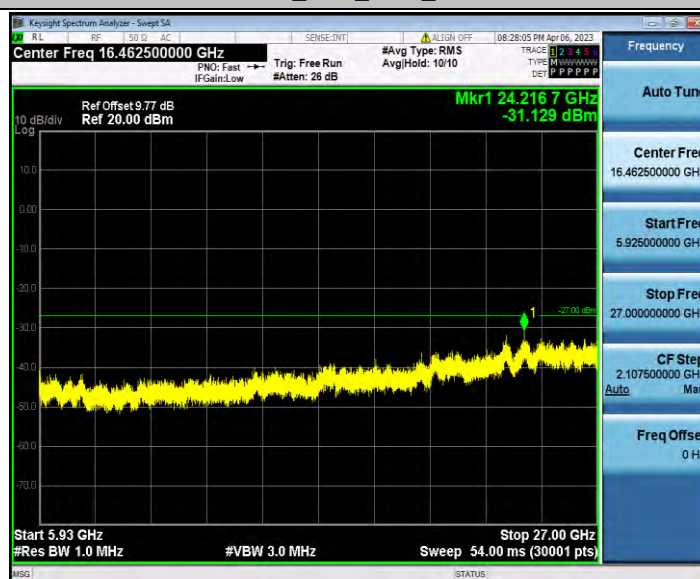
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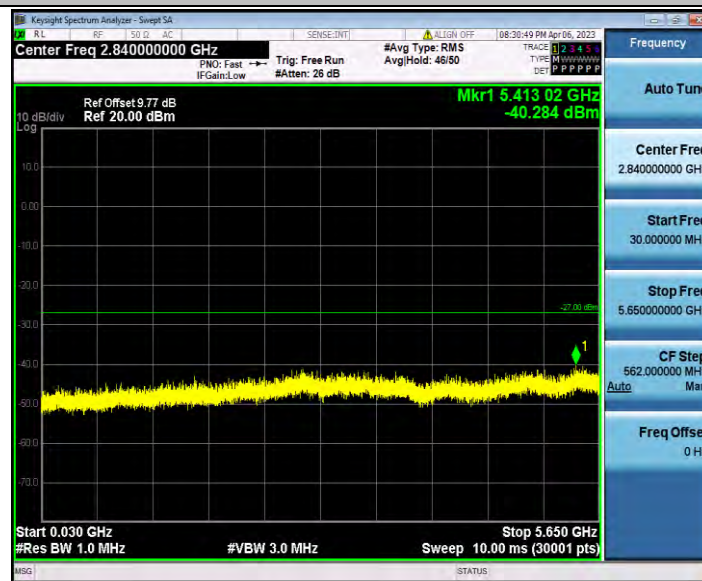
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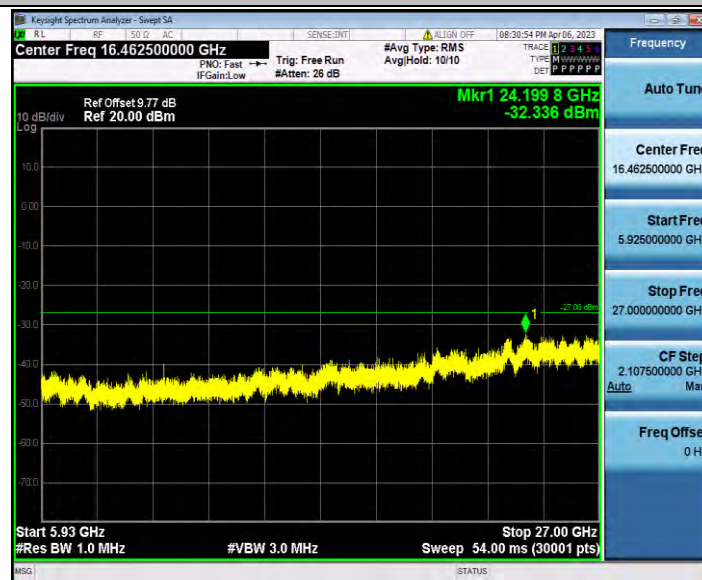
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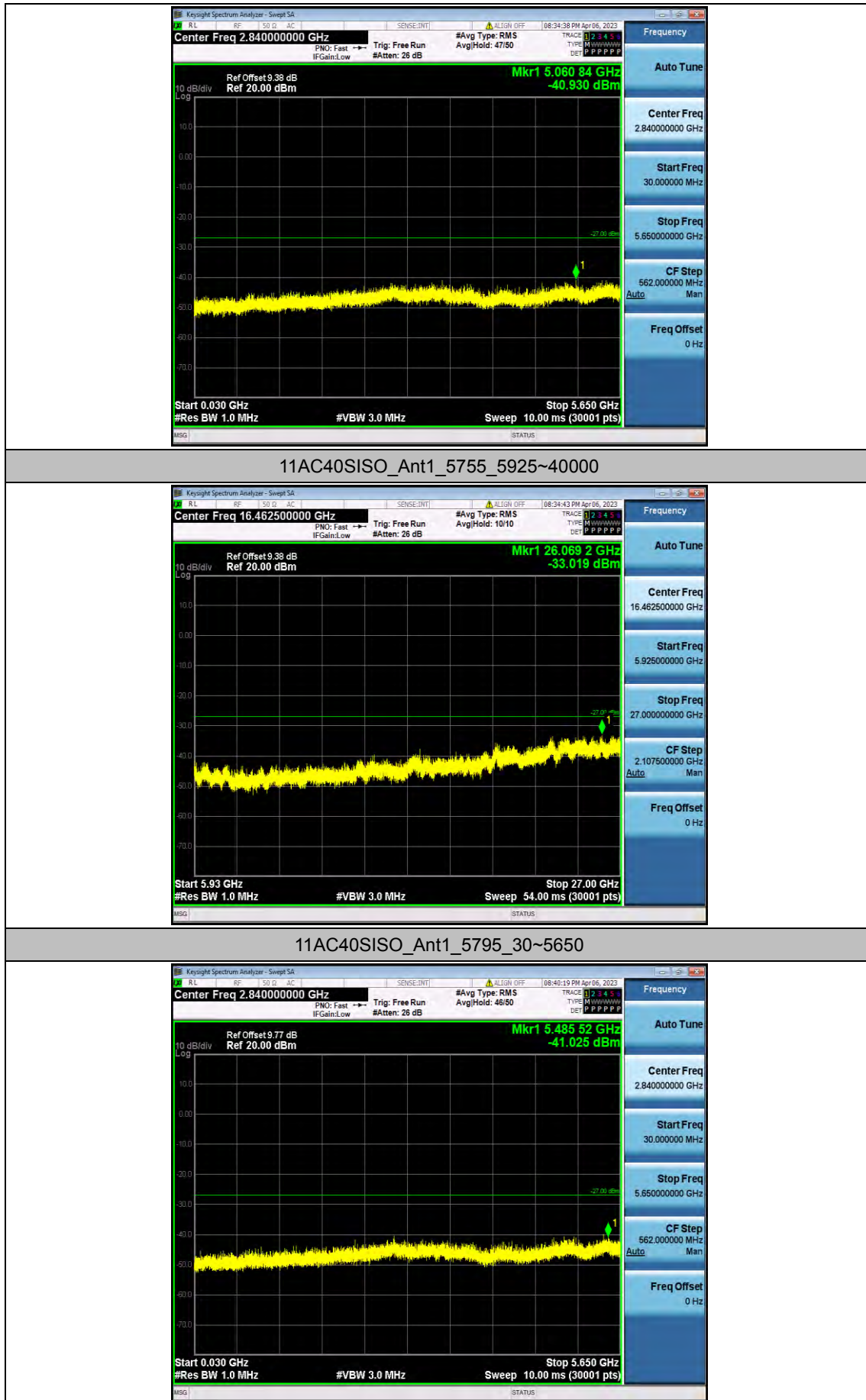
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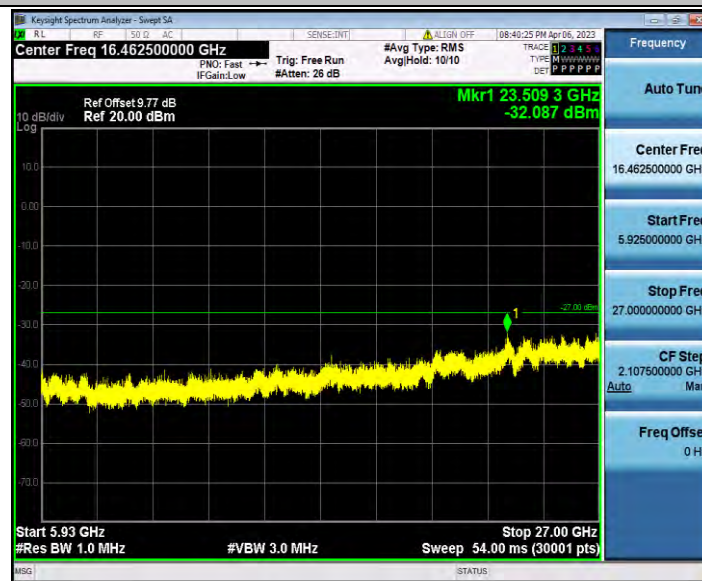
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11AC40SISO_Ant1_5795_5925~40000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~40000

