

Case No. : <u>GTS20230224006-1-4</u>	
Ambient Condition: <u>25</u> °C, <u>45</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.3.18</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	Ant2	5745	16.867	5736.529	5753.396	---	---
		5785	16.971	5776.502	5793.473	---	---
		5825	17.074	5816.407	5833.481	---	---
11N20SISO	Ant2	5745	18.075	5735.944	5754.019	---	---
		5785	18.024	5775.957	5793.981	---	---
		5825	18.130	5815.901	5834.031	---	---
11N40SISO	Ant2	5755	36.278	5736.849	5773.127	---	---
		5795	36.317	5776.810	5813.127	---	---
11AC20SISO	Ant2	5745	18.059	5735.928	5753.987	---	---
		5785	18.063	5775.943	5794.006	---	---
		5825	18.110	5815.891	5834.001	---	---
11AC40SISO	Ant2	5755	36.244	5736.874	5773.118	---	---
		5795	36.276	5776.867	5813.143	---	---
11AC80SISO	Ant2	5775	76.162	5736.817	5812.979	---	---

Test Graphs

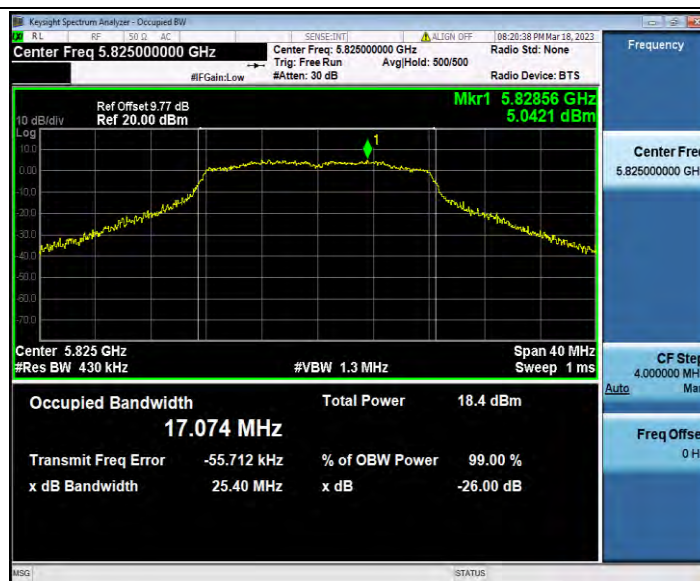
11A_Ant2_5745



11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



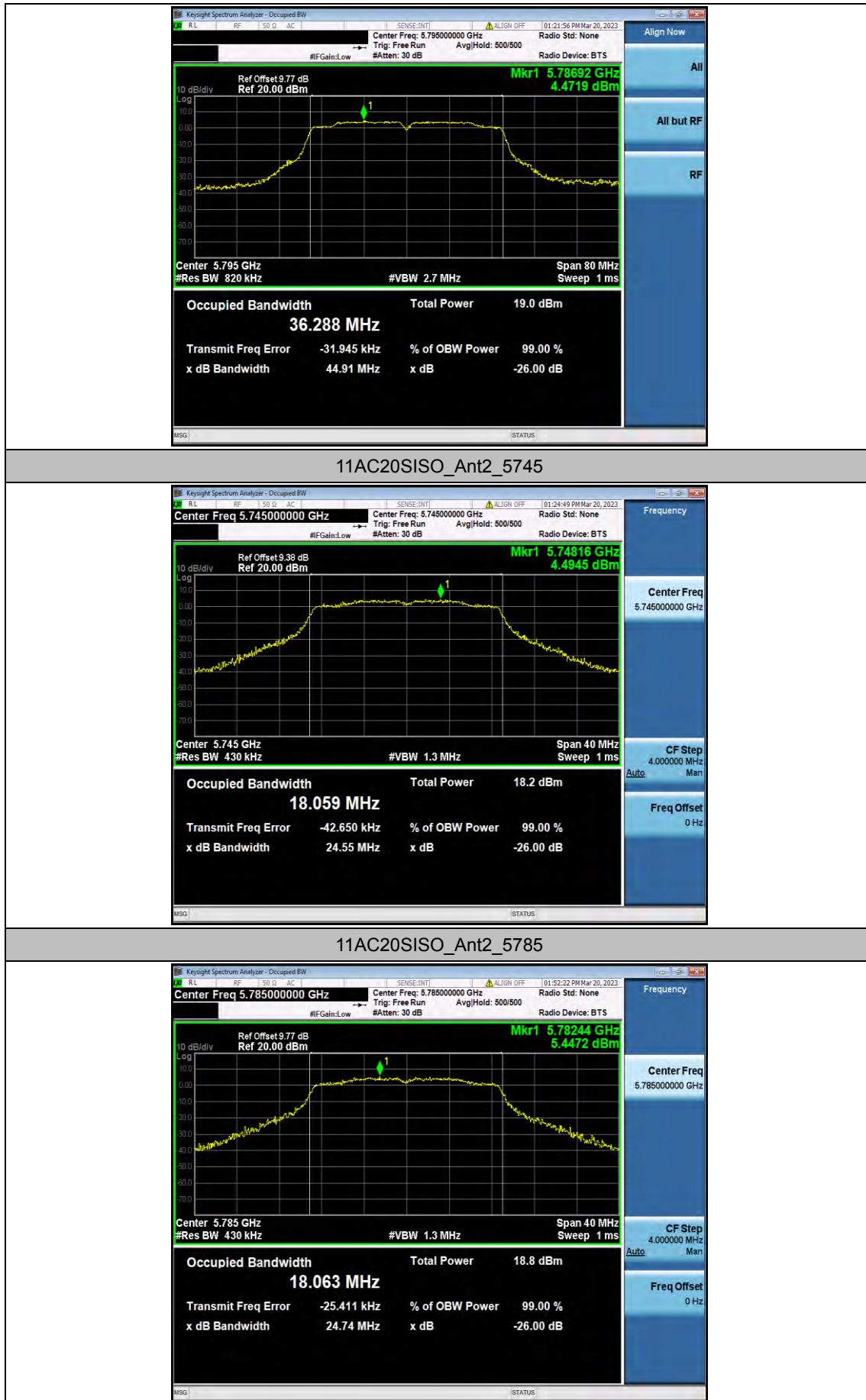
11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



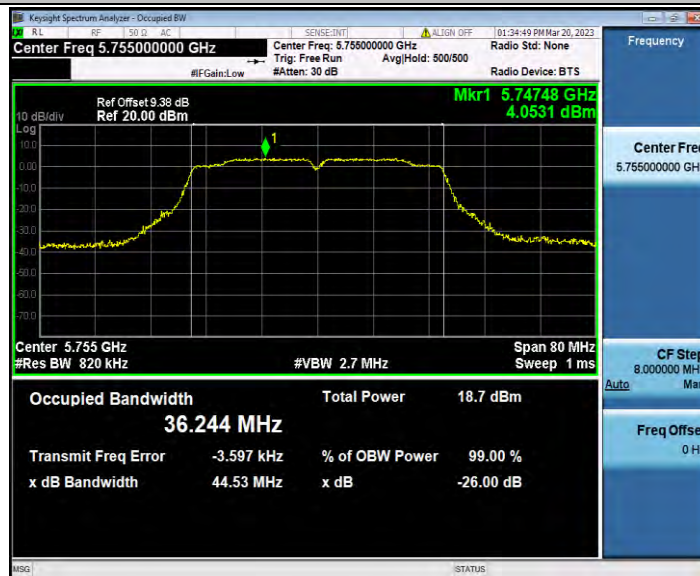
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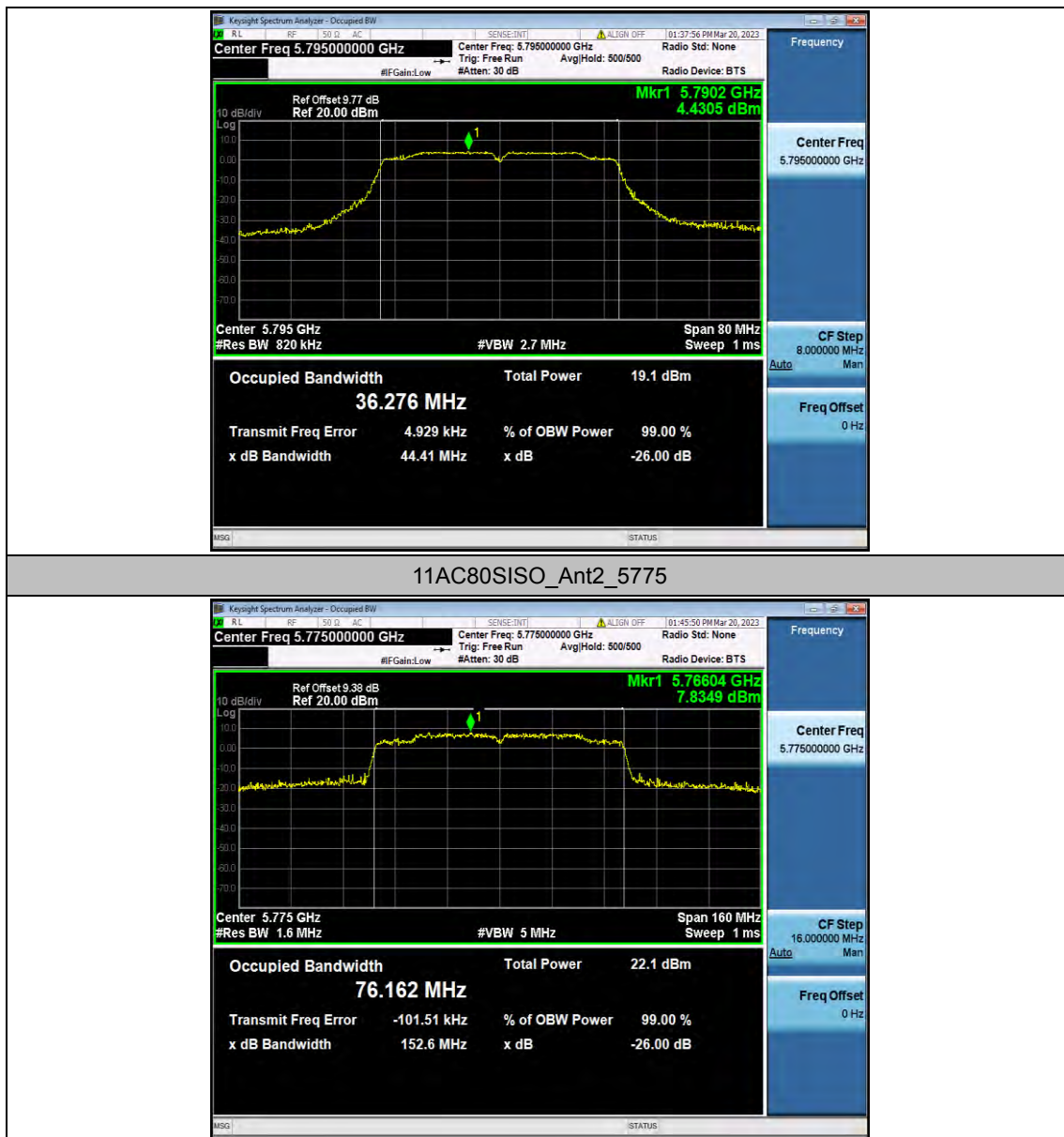
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11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



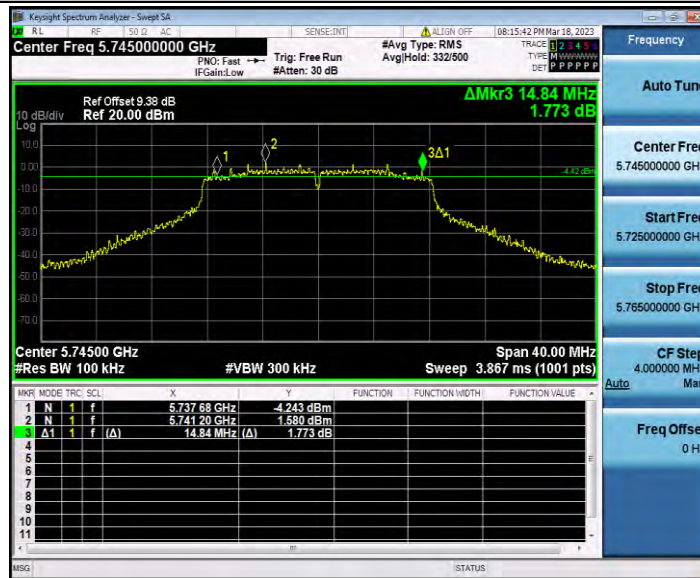
Appendix E.2: Min emission bandwidth

Test Result B4

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5745	14.840	5737.680	5752.520	0.5	PASS
		5785	15.000	5777.520	5792.520	0.5	PASS
		5825	14.120	5817.720	5831.840	0.5	PASS
11N20SISO	Ant2	5745	13.880	5737.400	5751.280	0.5	PASS
		5785	15.000	5777.480	5792.480	0.5	PASS
		5825	13.760	5818.680	5832.440	0.5	PASS
11N40SISO	Ant2	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC20SISO	Ant2	5745	15.960	5736.480	5752.440	0.5	PASS
		5785	15.000	5777.520	5792.520	0.5	PASS
		5825	15.080	5817.400	5832.480	0.5	PASS
11AC40SISO	Ant2	5755	35.120	5737.400	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



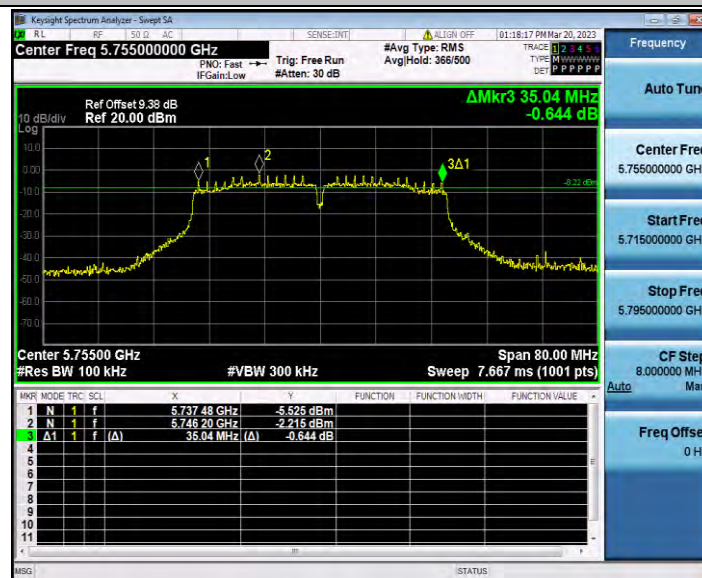
11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



11N40SISO_Ant2_5795



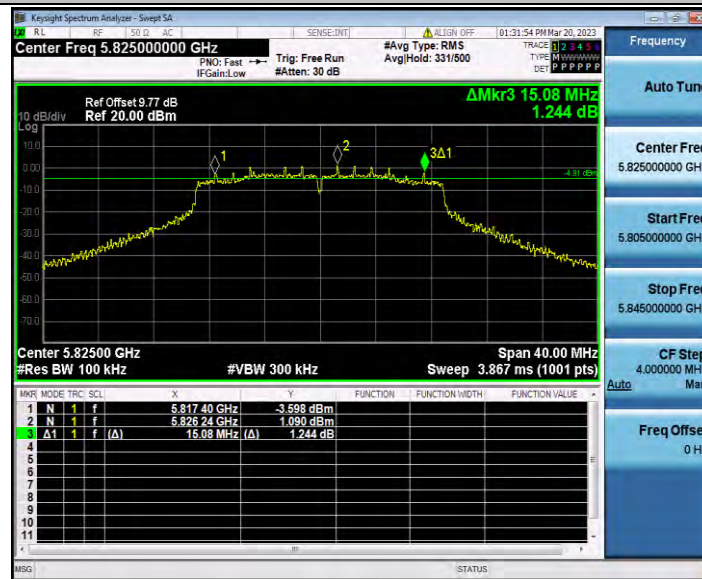
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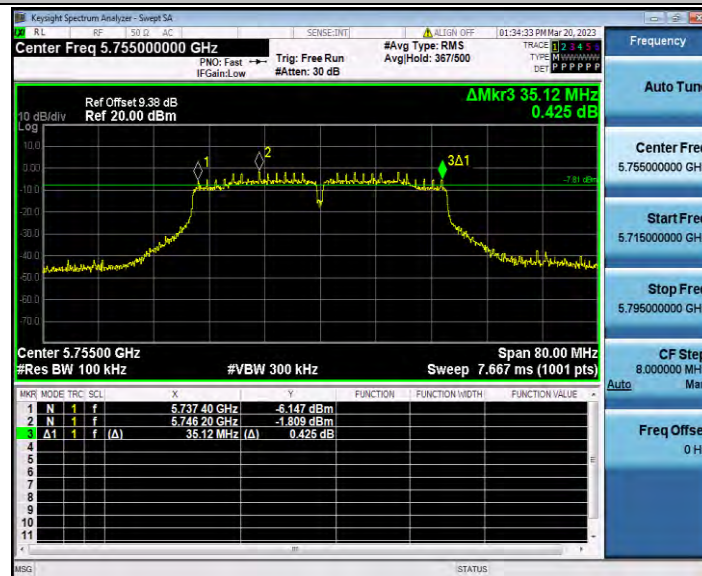
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11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



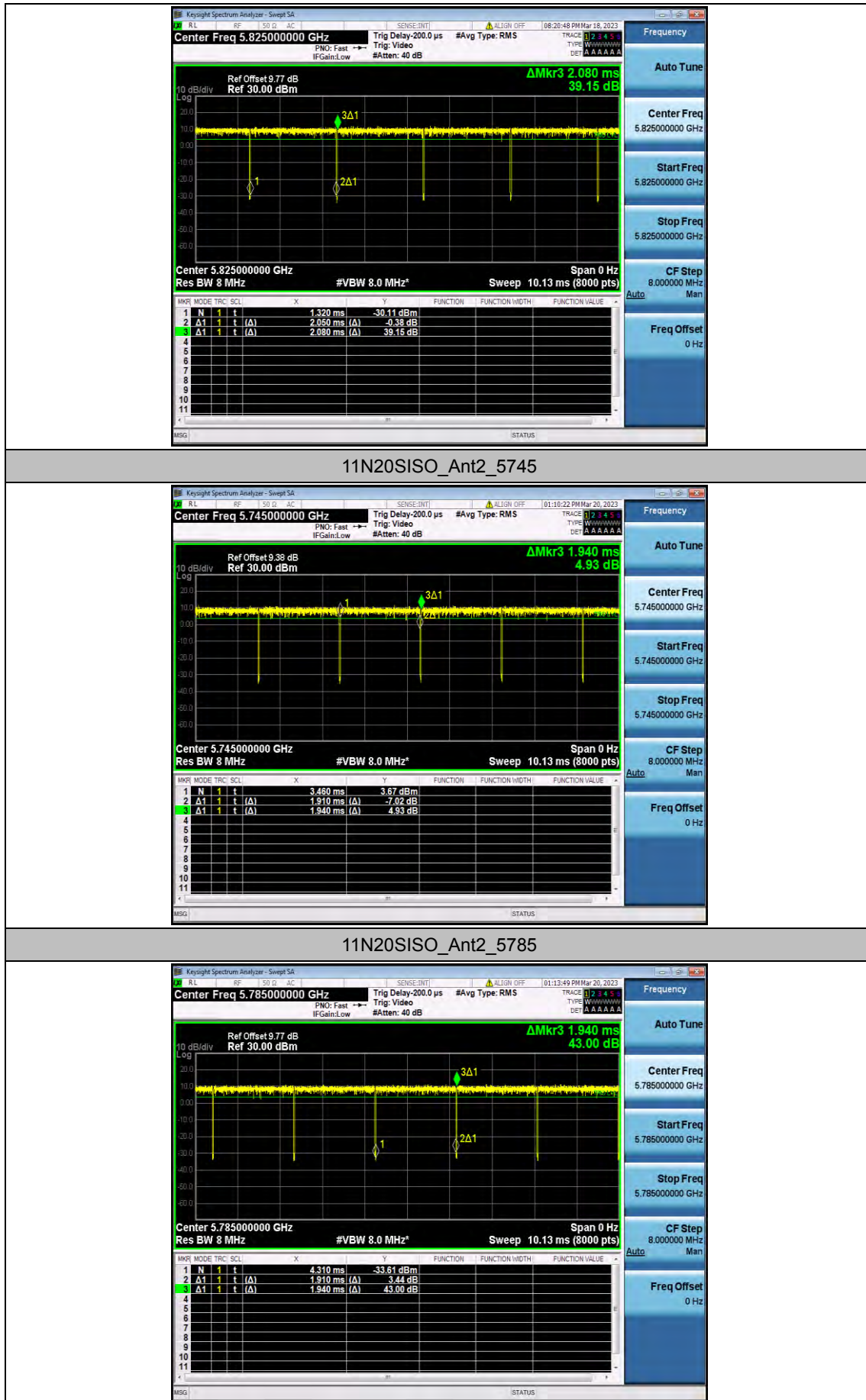
11AC40SISO_Ant2_5795



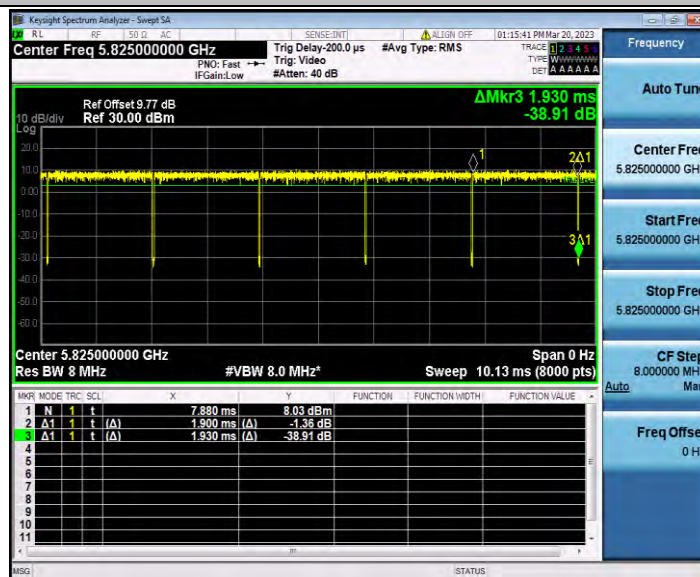
Appendix E.3: Duty Cycle

Test Result

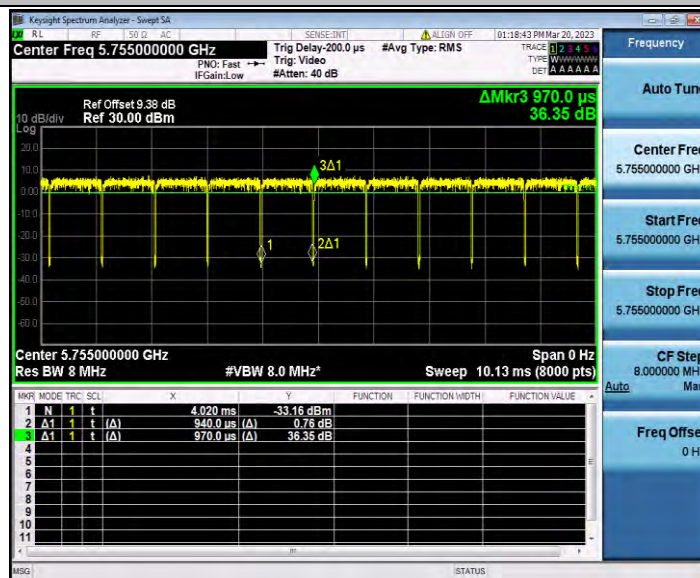
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5745	2.04	2.07	98.55
		5785	2.05	2.08	98.56
		5825	2.05	2.08	98.56
11N20SISO	Ant2	5745	1.91	1.94	98.45
		5785	1.91	1.94	98.45
		5825	1.90	1.93	98.45
11N40SISO	Ant2	5755	0.94	0.97	96.91
		5795	0.94	0.96	97.92
11AC20SISO	Ant2	5745	1.92	1.95	98.46
		5785	1.92	1.95	98.46
		5825	1.92	1.95	98.46
11AC40SISO	Ant2	5755	0.94	0.97	96.91
		5795	0.94	0.97	96.91
11AC80SISO	Ant2	5775	0.44	0.47	93.62



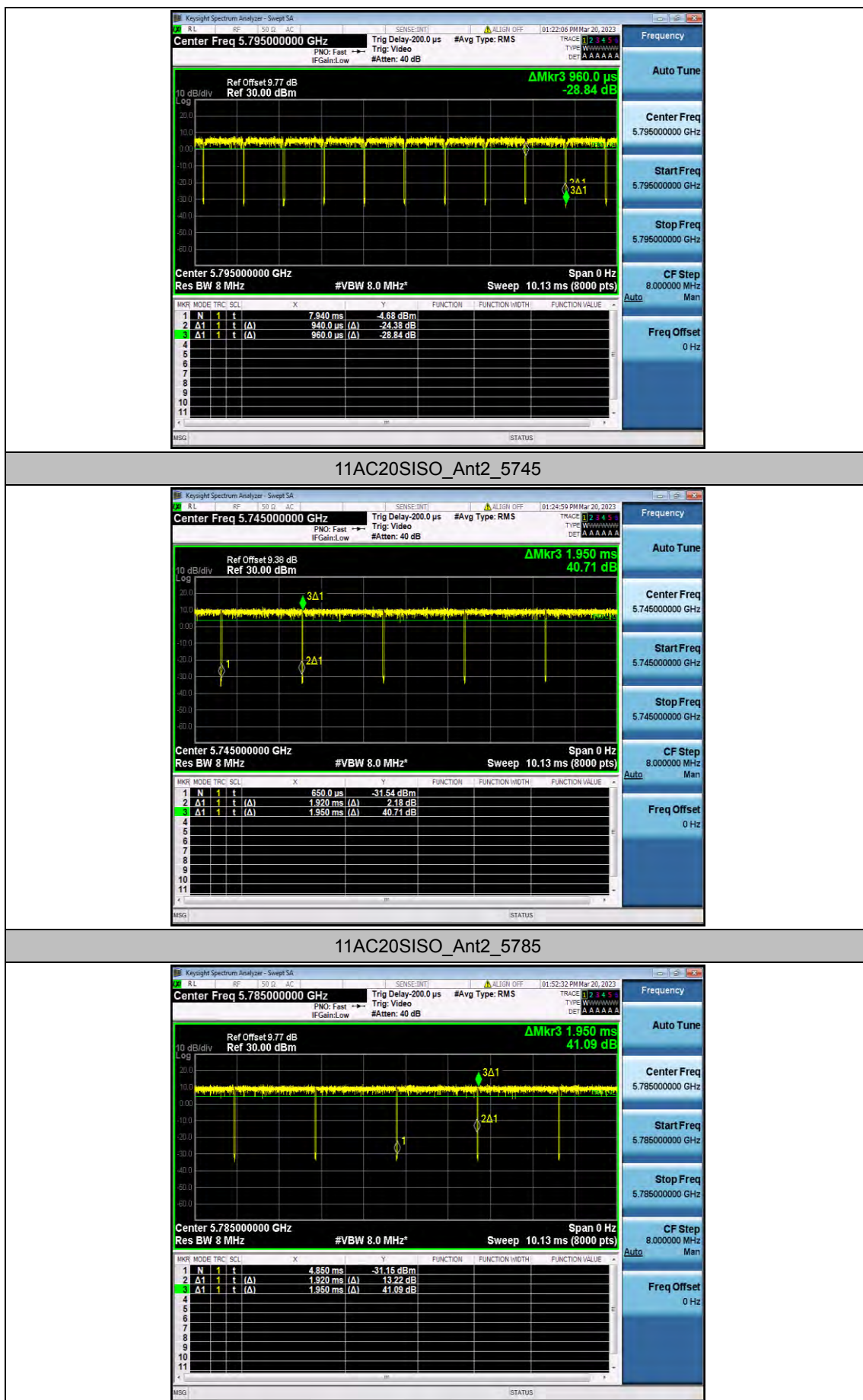
11N20SISO_Ant2_5825



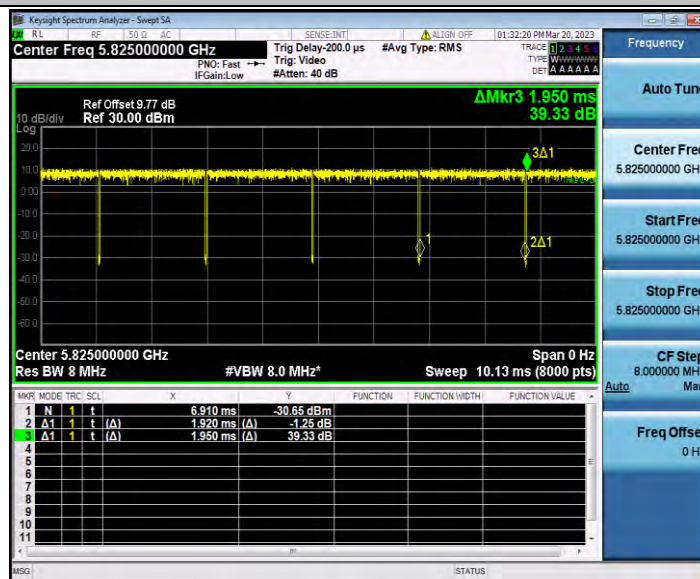
11N40SISO_Ant2_5755



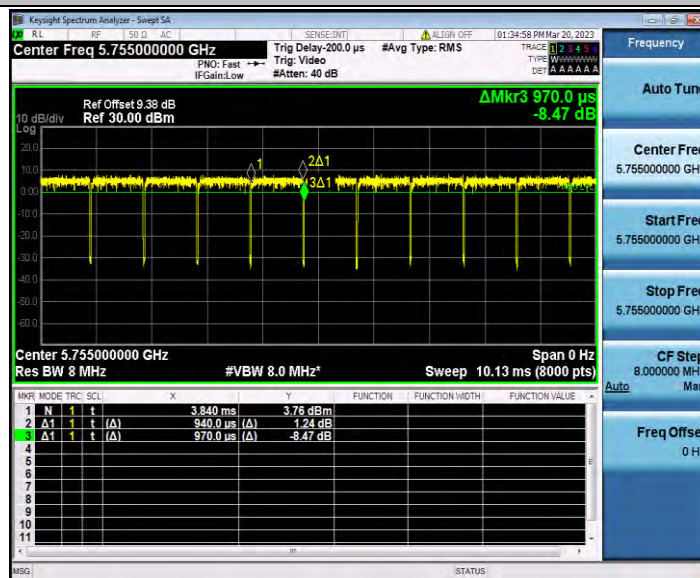
11N40SISO_Ant2_5795



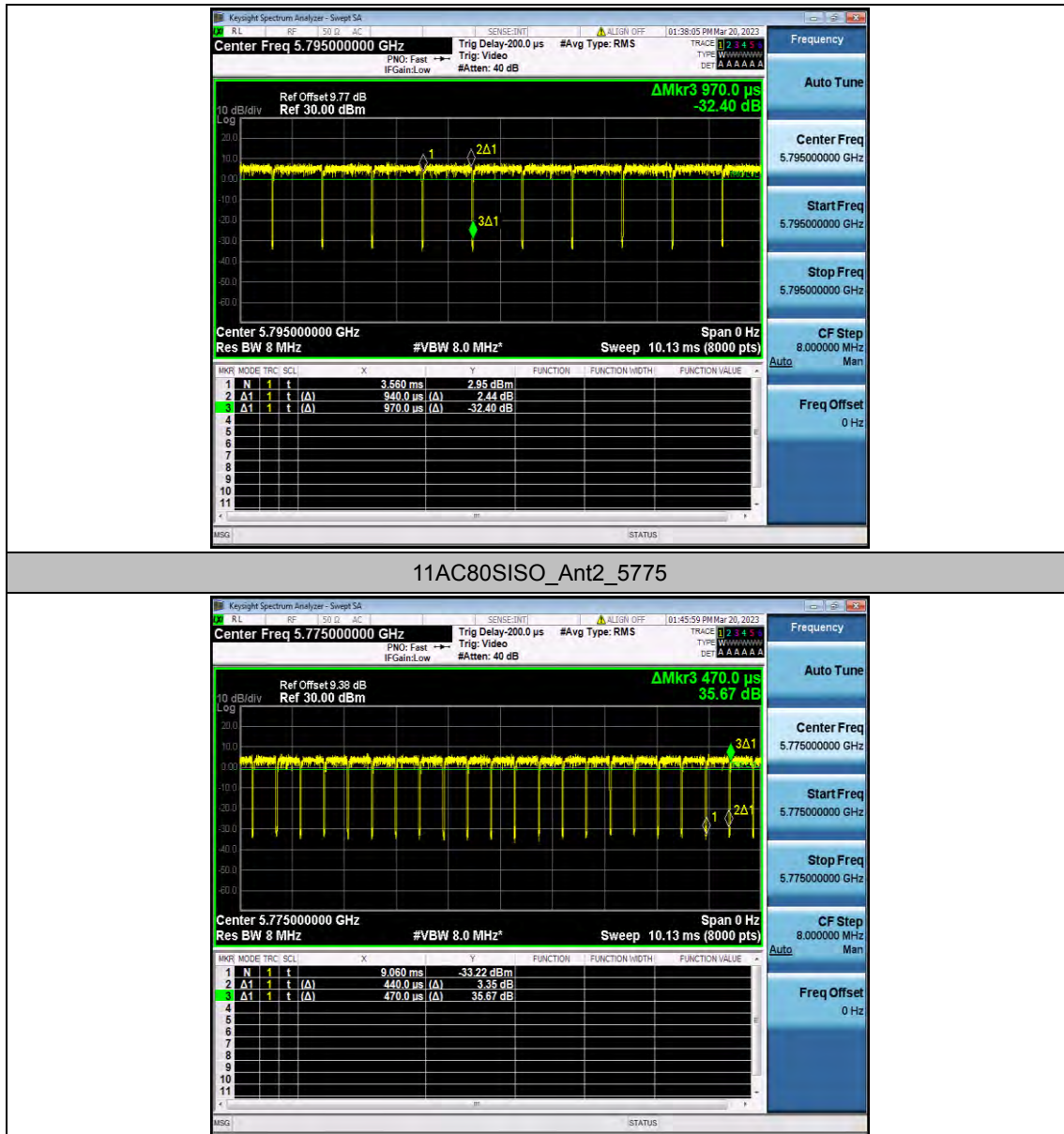
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



Appendix E.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[M Hz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5745	12.01	98.55	0.06	12.07	≤30.00	PASS
		5785	12.47	98.56	0.06	12.53	≤30.00	PASS
		5825	11.59	98.56	0.06	11.65	≤30.00	PASS
11N20SISO	Ant2	5745	11.36	98.45	0.07	11.43	≤30.00	PASS
		5785	11.32	98.45	0.07	11.39	≤30.00	PASS
		5825	10.72	98.45	0.07	10.79	≤30.00	PASS
11N40SISO	Ant2	5755	10.69	96.91	0.14	10.83	≤30.00	PASS
		5795	11.37	97.92	0.09	11.46	≤30.00	PASS
11AC20SISO	Ant2	5745	11.34	98.46	0.07	11.41	≤30.00	PASS
		5785	11.84	98.46	0.07	11.91	≤30.00	PASS
		5825	10.95	98.46	0.07	11.02	≤30.00	PASS
11AC40SISO	Ant2	5755	11.14	96.91	0.14	11.28	≤30.00	PASS
		5795	11.44	96.91	0.14	11.58	≤30.00	PASS
11AC80SISO	Ant2	5775	12.94	93.62	0.29	13.23	≤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	Ant2	5745	-1.16	≤30.00	PASS
		5785	-1.3	≤30.00	PASS
		5825	-2.12	≤30.00	PASS
11N20SISO	Ant2	5745	-2.95	≤30.00	PASS
		5785	-2.64	≤30.00	PASS
		5825	-3.48	≤30.00	PASS
11N40SISO	Ant2	5755	-6.35	≤30.00	PASS
		5795	-5.46	≤30.00	PASS
11AC20SISO	Ant2	5745	-2.57	≤30.00	PASS
		5785	-1.8	≤30.00	PASS
		5825	-2.81	≤30.00	PASS
11AC40SISO	Ant2	5755	-5.67	≤30.00	PASS
		5795	-5.51	≤30.00	PASS
11AC80SISO	Ant2	5775	-6.74	≤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



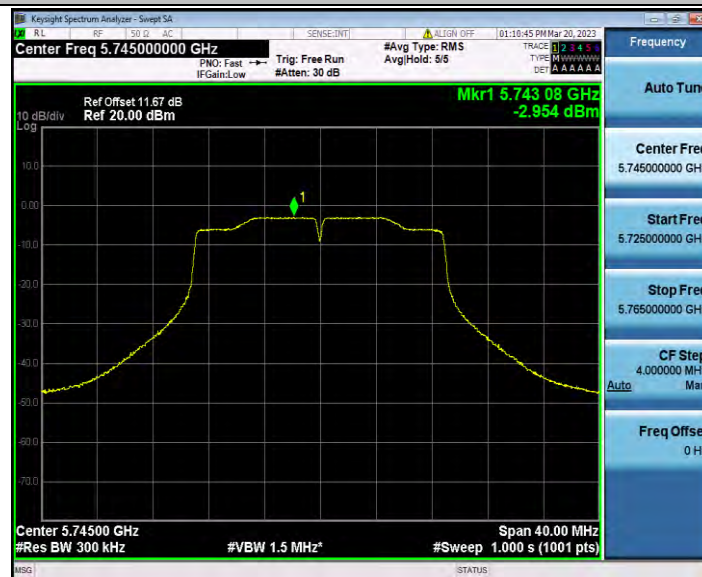
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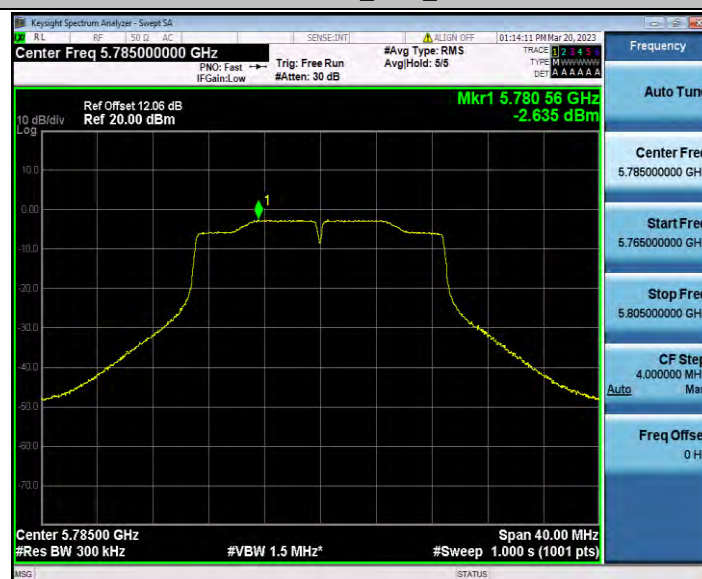
11A_Ant2_5825



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



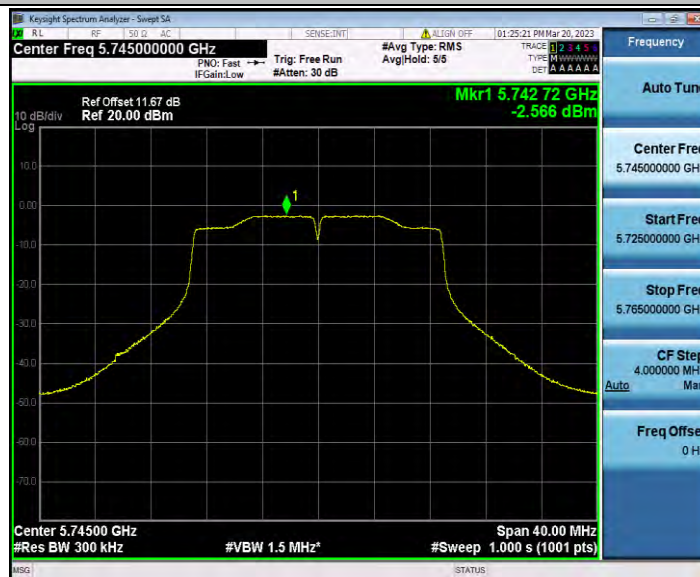
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11N40SISO_Ant2_5795



11AC20SISO_Ant2_5745



11AC20SISO_Ant2_5785



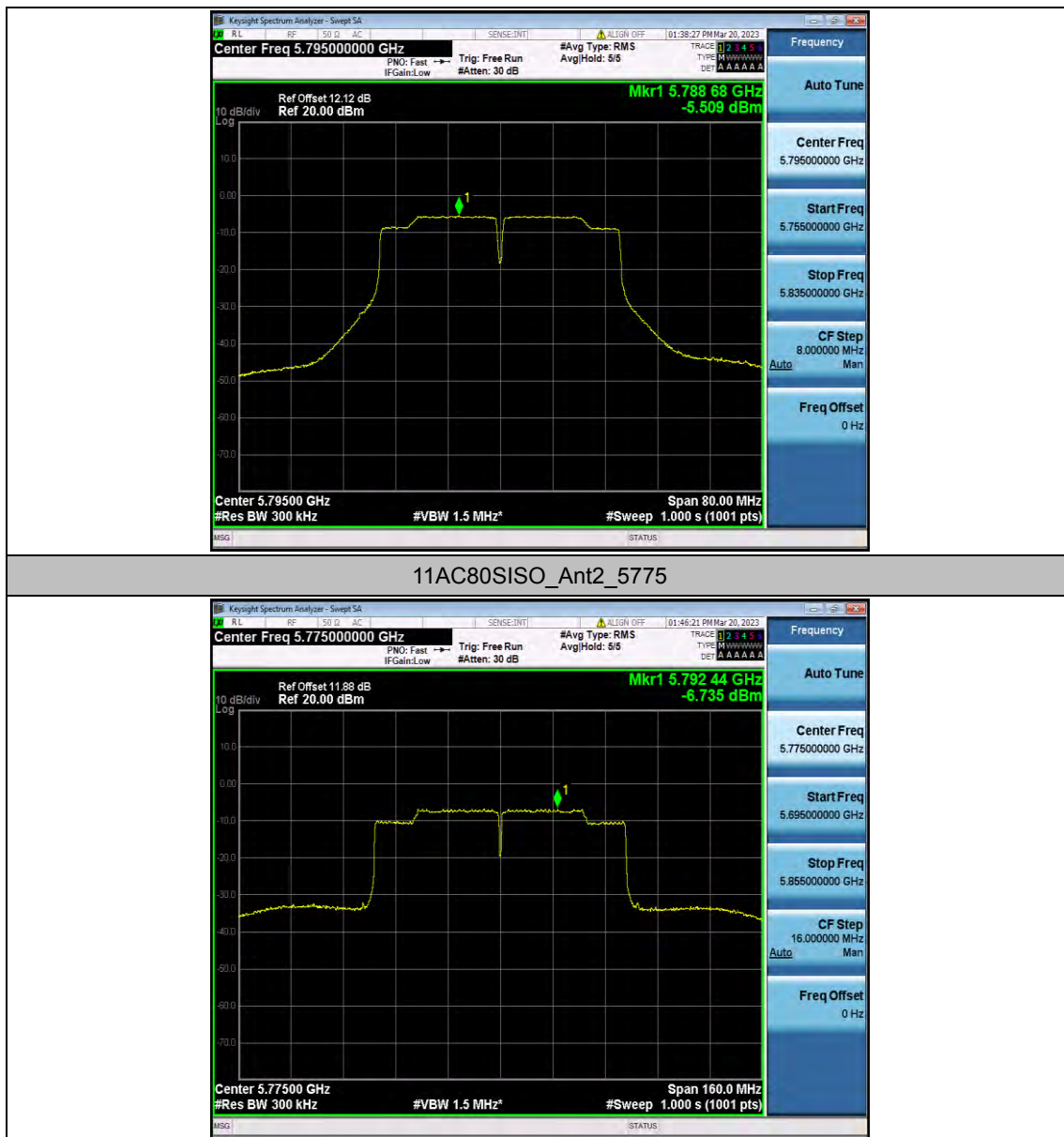
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



Appendix E.6: Band edge measurements

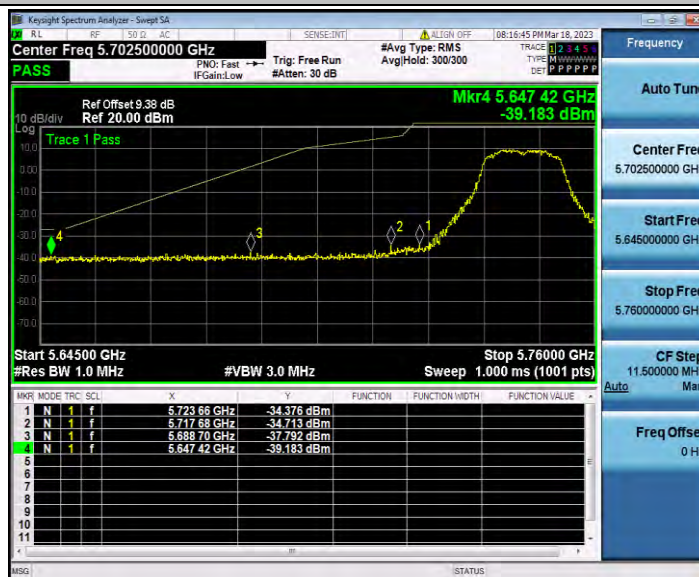
Test Result B4

TestMode	Antenna	ChName	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	Low	5745	5650~5700	-37.79	≤1.64	PASS
				5700~5720	-34.71	≤14.95	PASS
				5720~5725	-34.38	≤23.94	PASS
				5760~5650	-39.18	≤-27	PASS
		High	5825	5850~5855	-38.66	≤21.95	PASS
				5855~5875	-38.23	≤11.16	PASS
				5875~5925	-37.68	≤-11.57	PASS
				5925~5935	-37.72	≤-27	PASS
11N20SI SO	Ant2	Low	5745	5650~5700	-38.49	≤-10.53	PASS
				5700~5720	-34.46	≤13.18	PASS
				5720~5725	-34.14	≤26.83	PASS
				5760~5650	-39.93	≤-27	PASS
		High	5825	5850~5855	-38.54	≤15.79	PASS
				5855~5875	-36.66	≤10.70	PASS
				5875~5925	-37.86	≤-2.38	PASS
				5925~5935	-38.86	≤-27	PASS
11N40SI SO	Ant2	Low	5755	5650~5700	-37.01	≤5.96	PASS
				5700~5720	-35.21	≤15.13	PASS
				5720~5725	-35.22	≤18.20	PASS
				5780~5650	-39.79	≤-27	PASS
		High	5795	5850~5855	-37.3	≤17.16	PASS
				5855~5875	-37.67	≤14.71	PASS
				5875~5925	-37.38	≤-0.18	PASS
				5925~5935	-37.45	≤-27	PASS
11AC20S ISO	Ant2	Low	5745	5650~5700	-37.77	≤-17.17	PASS
				5700~5720	-36.39	≤14.34	PASS
				5720~5725	-34.64	≤24.47	PASS
				5760~5650	-40.19	≤-27	PASS
		High	5825	5850~5855	-37.36	≤15.79	PASS
				5855~5875	-38.02	≤11.19	PASS
				5875~5925	-37.78	≤-11.27	PASS
				5925~5935	-38.8	≤-27	PASS
11AC40S ISO	Ant2	Low	5755	5650~5700	-36.93	≤8.96	PASS
				5700~5720	-34.75	≤15.20	PASS
				5720~5725	-33.99	≤24.97	PASS

		High	5795	5780~5650	-40	≤ -27	PASS
				5850~5855	-38.54	≤ 26.19	PASS
				5855~5875	-38.69	≤ 10.50	PASS
				5875~5925	-38.33	≤ -14.71	PASS
				5925~5935	-39.37	≤ -27	PASS
11AC80S ISO	Ant2	Low	5775	5650~5700	-20.58	≤ 9.45	PASS
				5700~5720	-18.43	≤ 15.04	PASS
				5720~5725	-18.6	≤ 23.77	PASS
				5800~5650	-34.8	≤ -27	PASS
		High	5775	5850~5855	-19.44	≤ 15.79	PASS
				5855~5875	-23.18	≤ 10.13	PASS
				5875~5925	-27.44	≤ -26.96	PASS
				5925~5935	-37.49	≤ -27	PASS

Test Graphs B4

11A_Ant2_Low_5745



11A_Ant2_High_5825



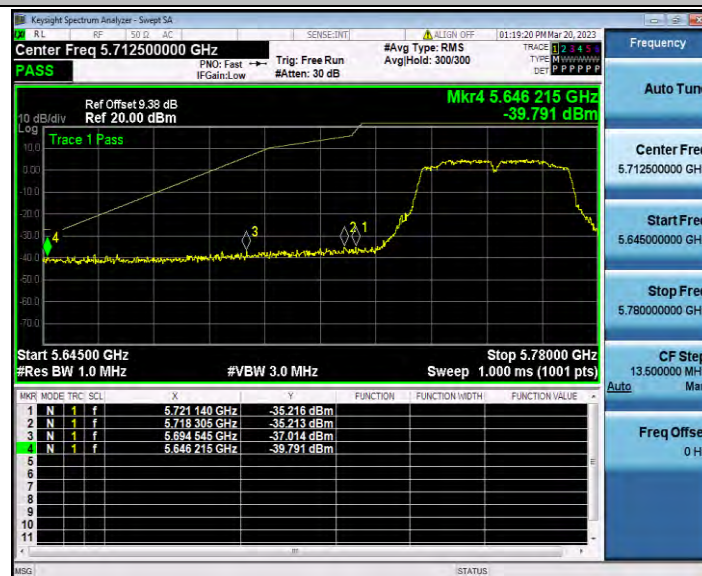
11N20SISO_Ant2_Low_5745



11N20SISO_Ant2_High_5825



11N40SISO_Ant2_Low_5755



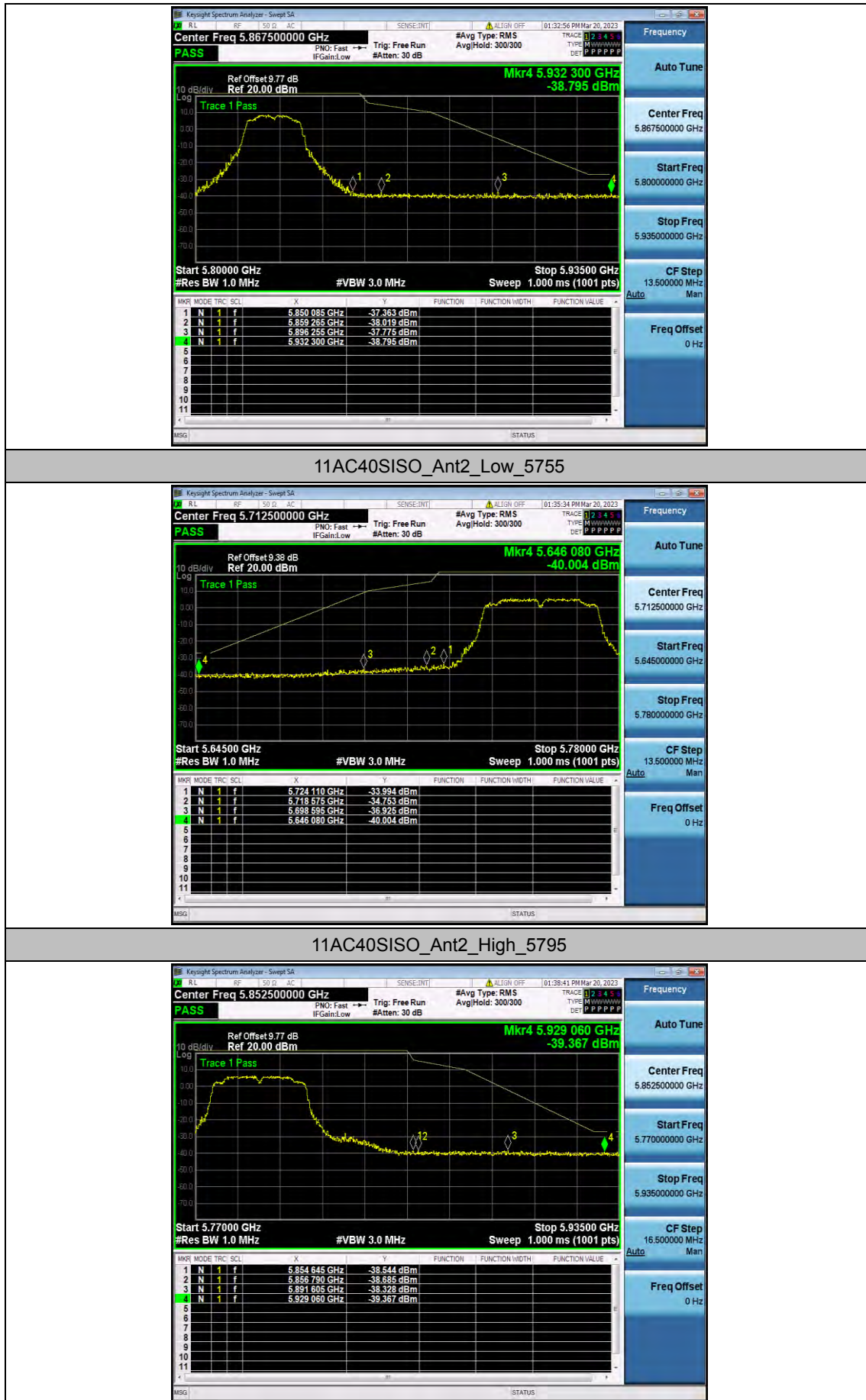
11N40SISO_Ant2_High_5795



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	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5745	30~5650	5462.29	-40.35	≤-27	PASS
			5925~40000	25216.35	-32.36	≤-27	PASS
		5785	30~5650	5432.51	-39.05	≤-27	PASS
			5925~40000	23582.34	-32.55	≤-27	PASS
		5825	30~5650	2592.16	-40.33	≤-27	PASS
			5925~40000	25219.87	-32.15	≤-27	PASS
11N20SISO	Ant2	5745	30~5650	3304.77	-40.68	≤-27	PASS
			5925~40000	24258.14	-33.4	≤-27	PASS
		5785	30~5650	5434.94	-40.18	≤-27	PASS
			5925~40000	26067.78	-33.06	≤-27	PASS
		5825	30~5650	5584.25	-40.7	≤-27	PASS
			5925~40000	24289.76	-33.14	≤-27	PASS
11N40SISO	Ant2	5755	30~5650	5410.96	-41.5	≤-27	PASS
			5925~40000	26548.29	-33.65	≤-27	PASS
		5795	30~5650	2435.55	-40.86	≤-27	PASS
			5925~40000	26711.98	-32.89	≤-27	PASS
11AC20SISO	Ant2	5745	30~5650	5070.39	-41.31	≤-27	PASS
			5925~40000	24284.84	-31.77	≤-27	PASS
		5785	30~5650	5403.66	-40.41	≤-27	PASS
			5925~40000	23555.64	-32.53	≤-27	PASS
		5825	30~5650	5643.26	-39.98	≤-27	PASS
			5925~40000	26833.51	-32.32	≤-27	PASS
11AC40SISO	Ant2	5755	30~5650	5458.92	-40.41	≤-27	PASS
			5925~40000	26015.8	-32.85	≤-27	PASS
		5795	30~5650	5406.28	-40.54	≤-27	PASS
			5925~40000	24129.59	-32.23	≤-27	PASS
11AC80SISO	Ant2	5775	30~5650	5643.82	-36.38	≤-27	PASS
			5925~40000	24258.14	-32.72	≤-27	PASS

Test Graphs

11A_Ant2_5745_30~5650



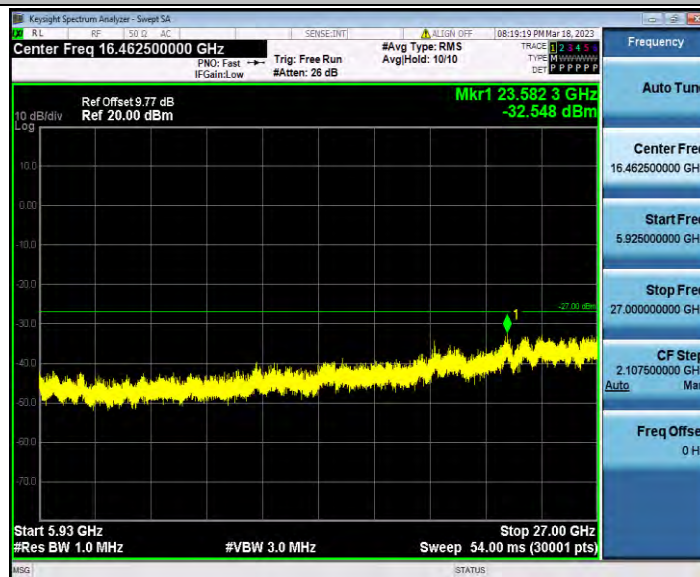
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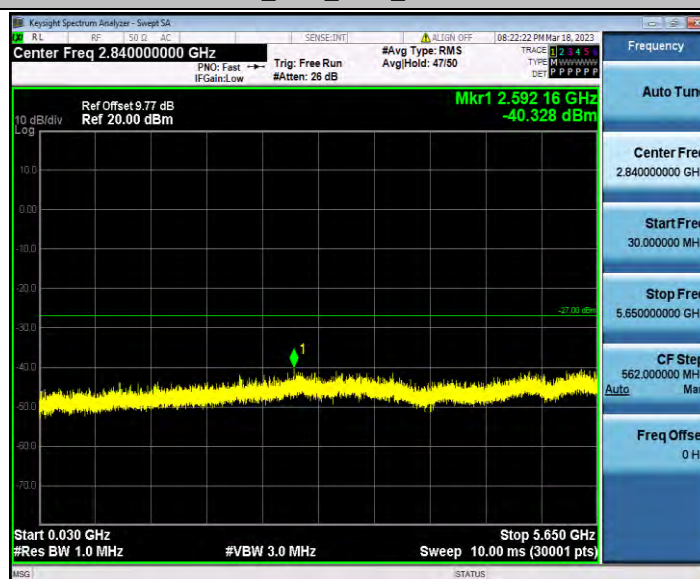
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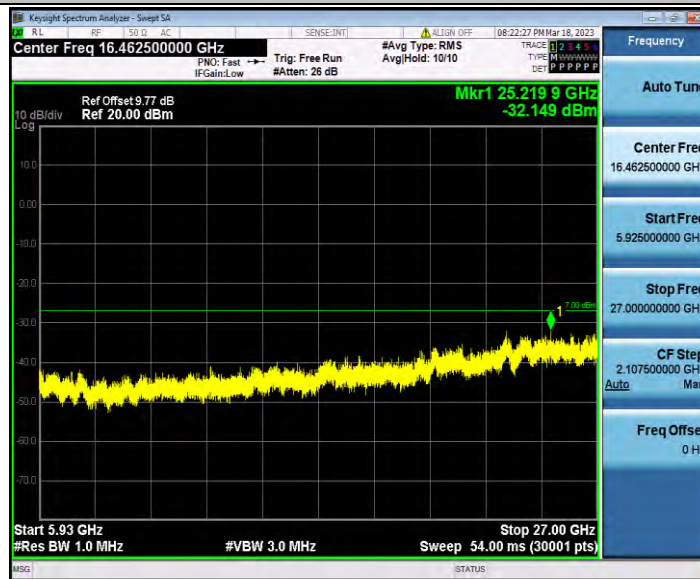
11A_Ant2_5785_5925~40000



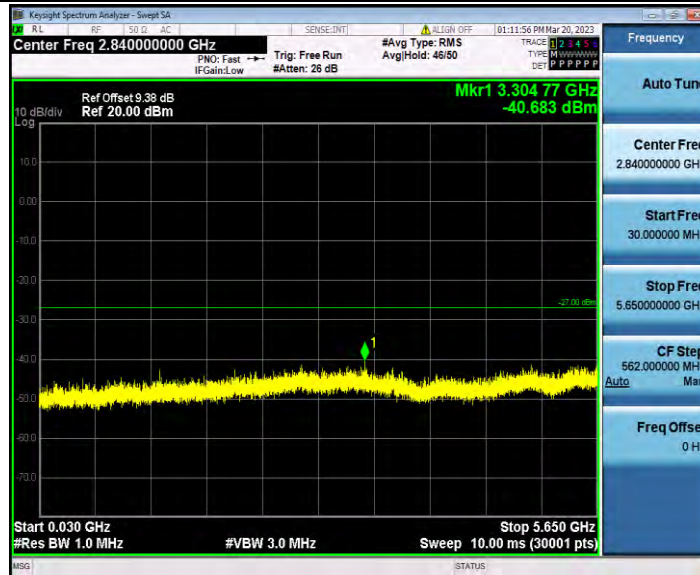
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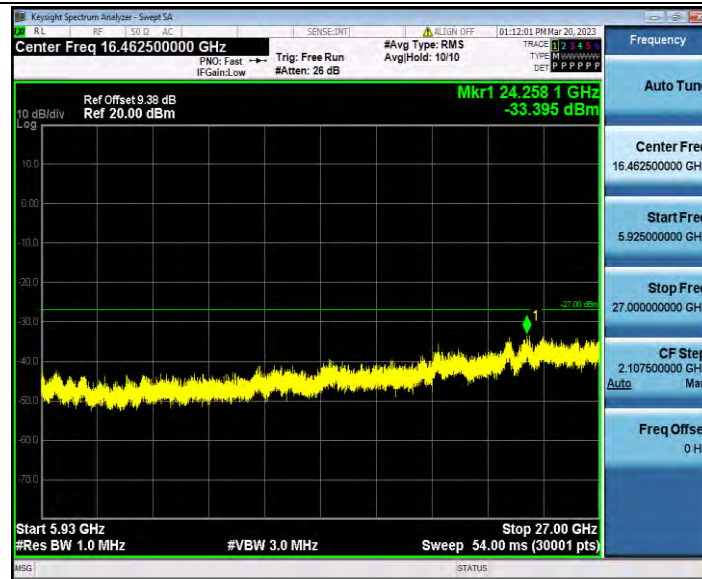
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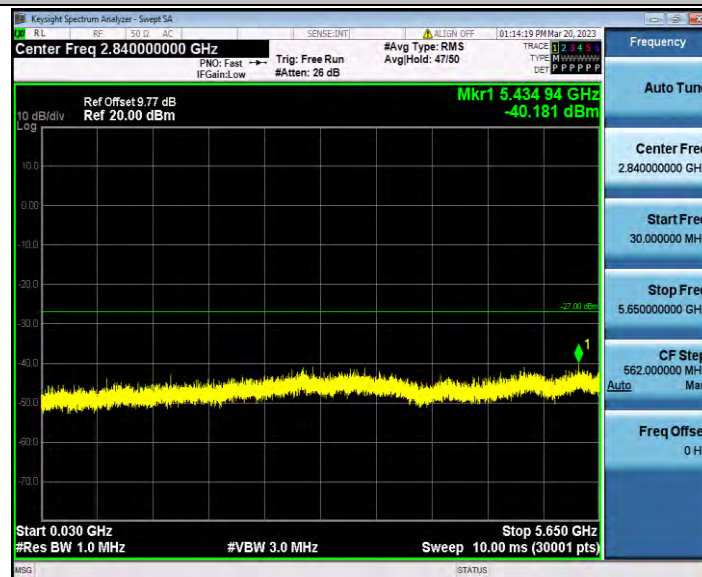
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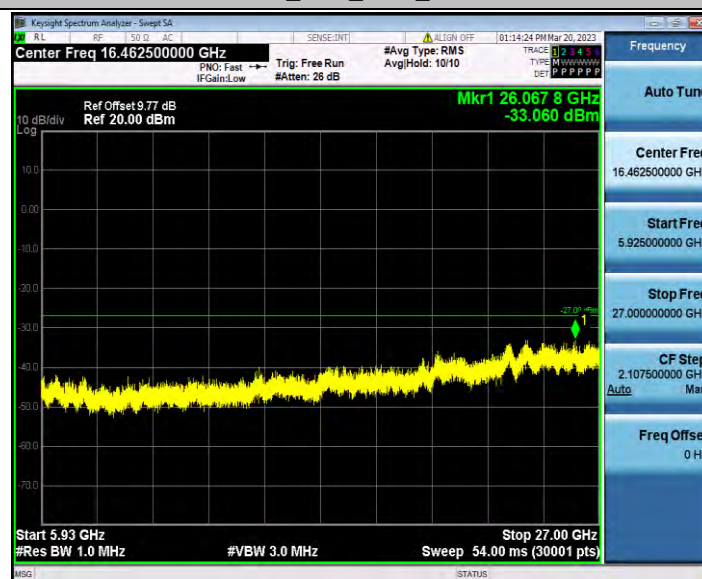
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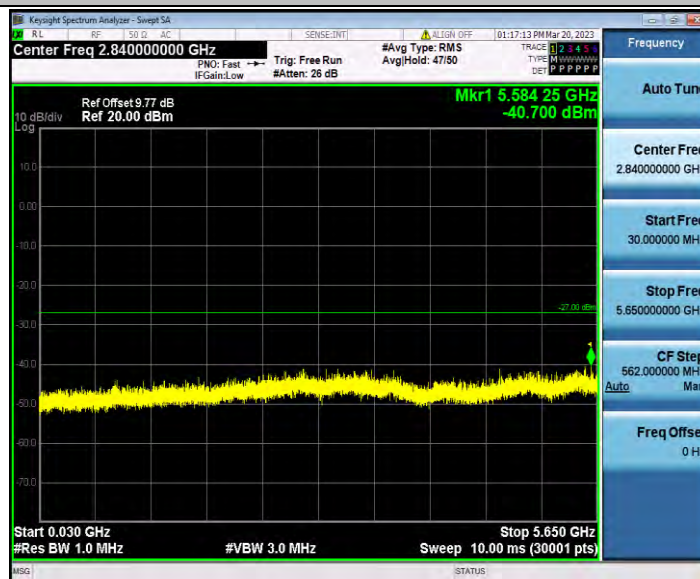
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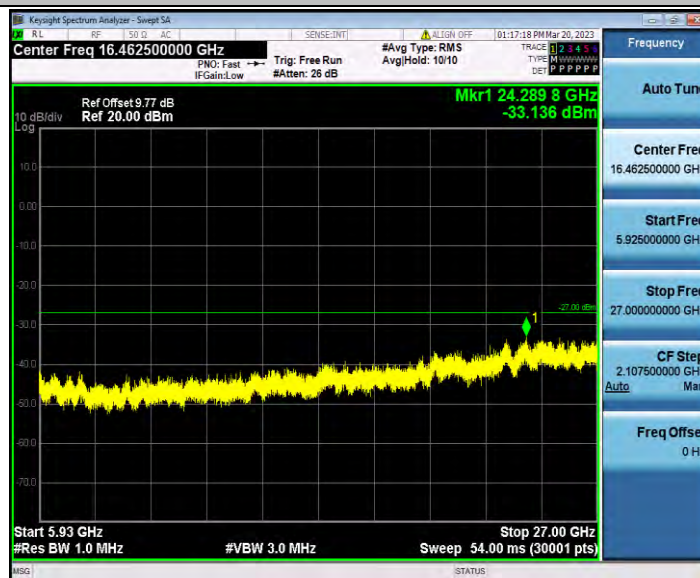
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11N20SISO_Ant2_5825_30~5650



11N20SISO_Ant2_5825_5925~40000



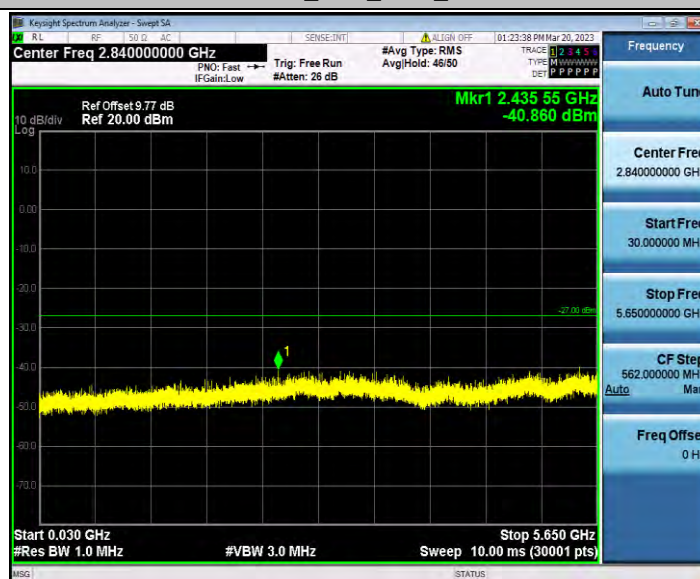
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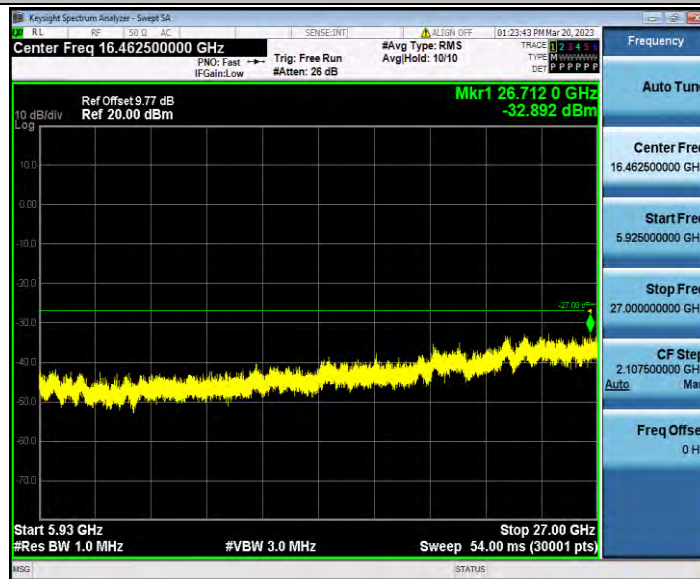
11N40SISO_Ant2_5755_5925~40000



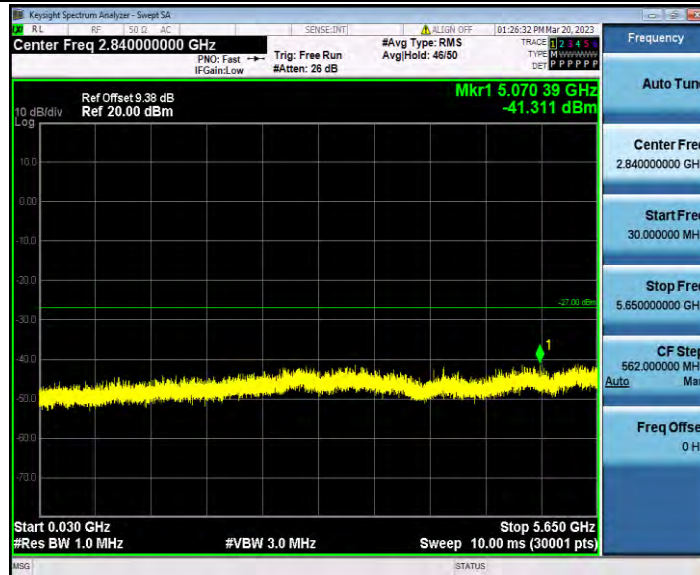
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11N40SISO_Ant2_5795_5925~40000



11AC20SISO_Ant2_5745_30~5650



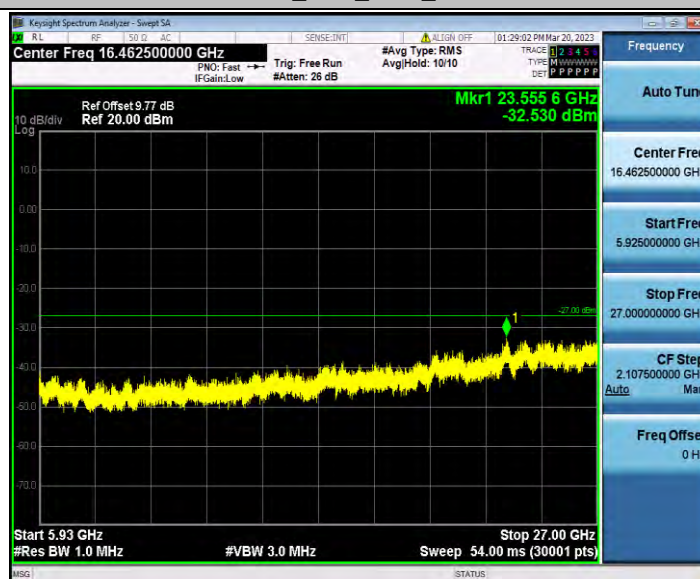
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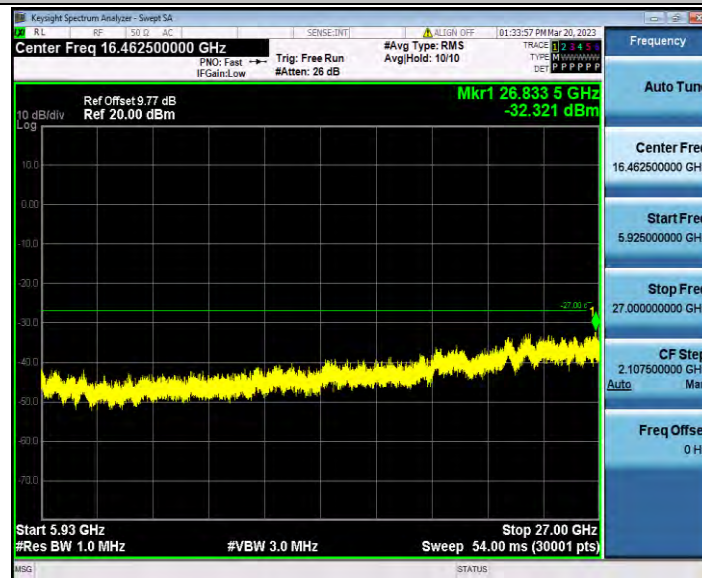
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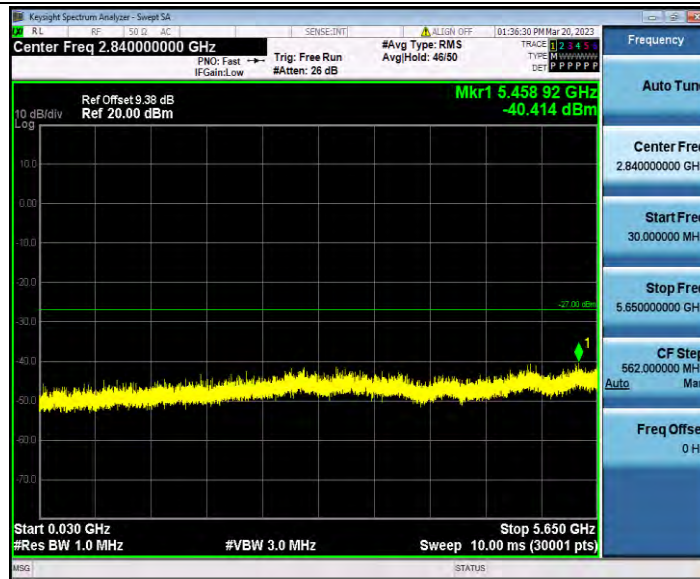
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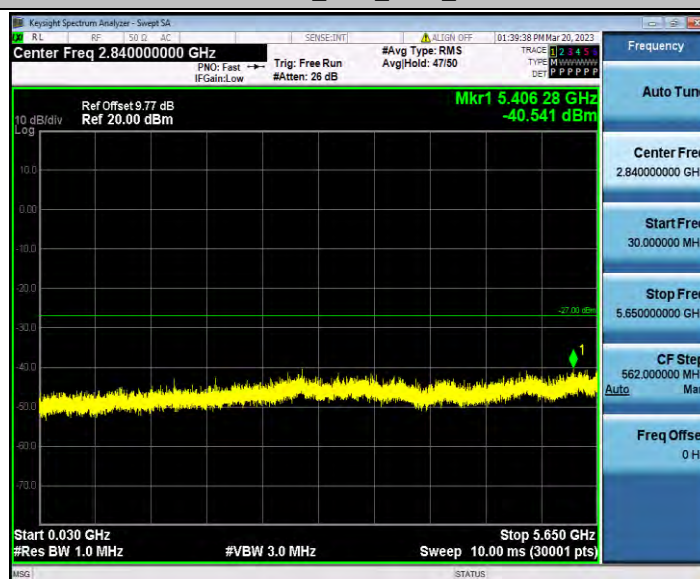
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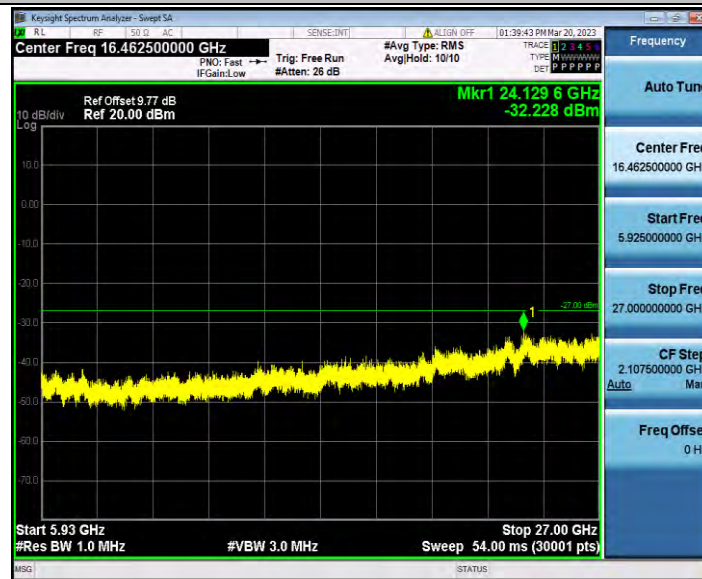
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11AC40SISO_Ant2_5795_30~5650



11AC40SISO_Ant2_5795_5925~40000



11AC80SISO_Ant2_5775_30~5650



11AC80SISO_Ant2_5775_5925~40000

