

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 D.1: Emission Bandwidth

Test Result

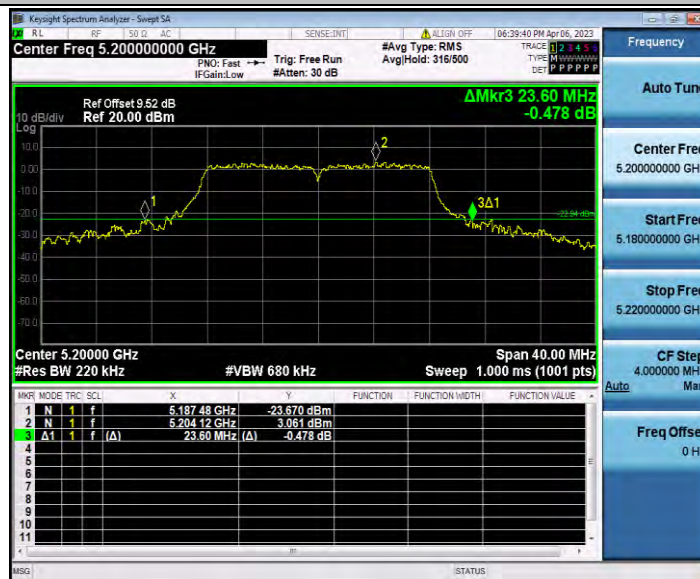
TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.800	5169.680	5190.480	---	---
		5200	23.600	5187.480	5211.080	---	---
		5240	20.800	5229.640	5250.440	---	---
11N20SISO	Ant1	5180	21.280	5169.360	5190.640	---	---
		5200	21.360	5189.120	5210.480	---	---
		5240	21.280	5229.320	5250.600	---	---
11N40SISO	Ant1	5190	41.760	5168.800	5210.560	---	---
		5230	41.920	5208.800	5250.720	---	---
11AC20SISO	Ant1	5180	21.680	5169.000	5190.680	---	---
		5200	21.240	5189.240	5210.480	---	---
		5240	21.360	5229.240	5250.600	---	---
11AC40SISO	Ant1	5190	41.920	5168.720	5210.640	---	---
		5230	41.760	5208.720	5250.480	---	---
11AC80SISO	Ant1	5210	82.240	5168.560	5250.800	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



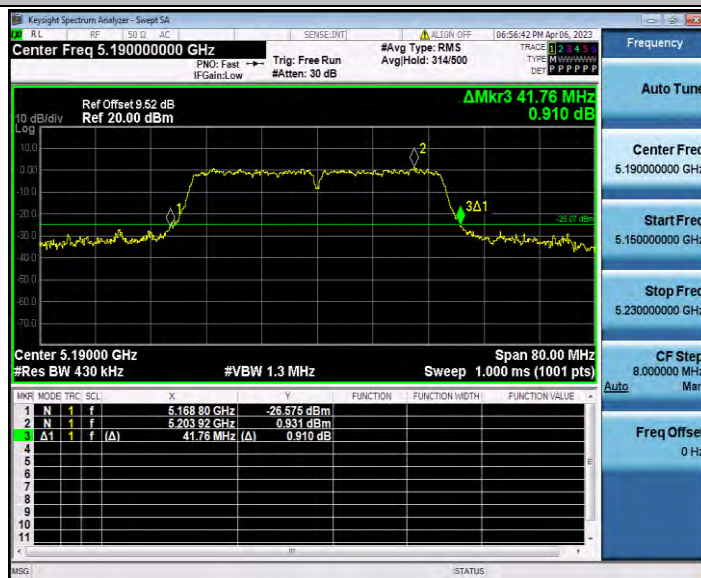
11N20SISO_Ant1_5200



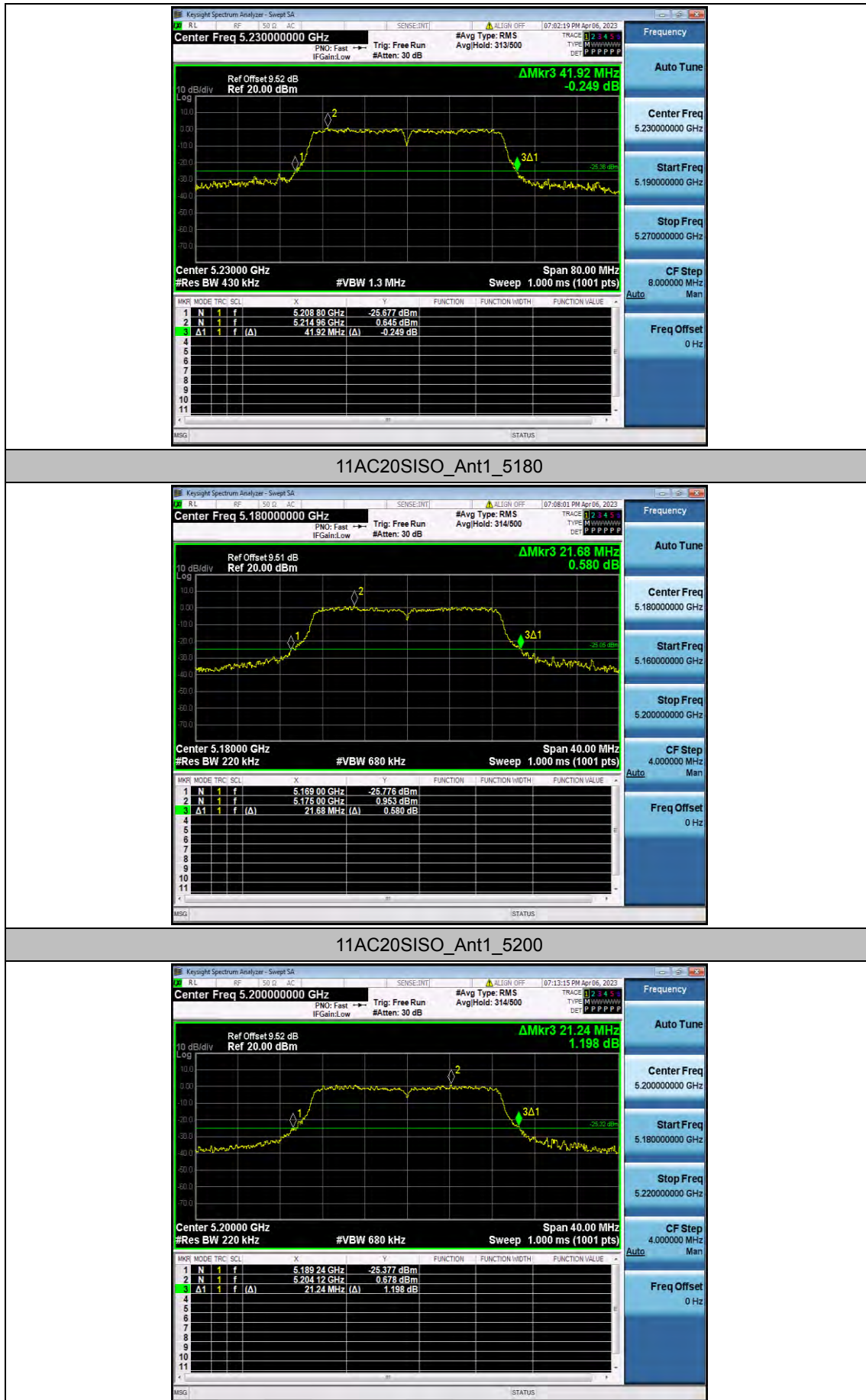
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



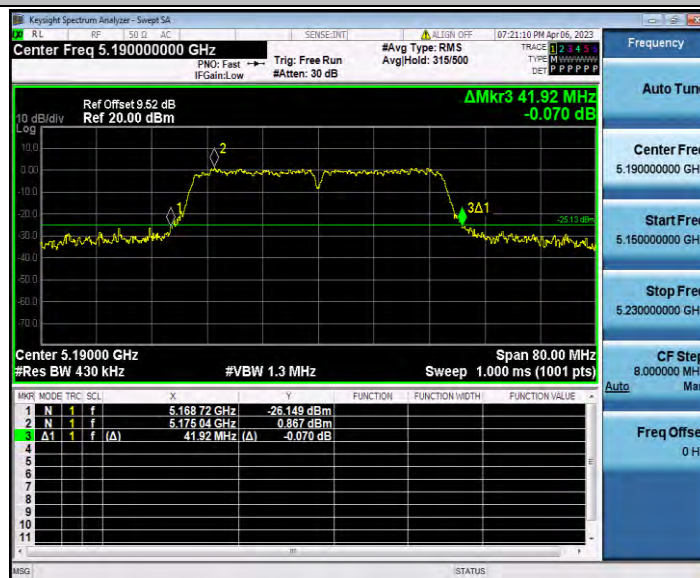
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



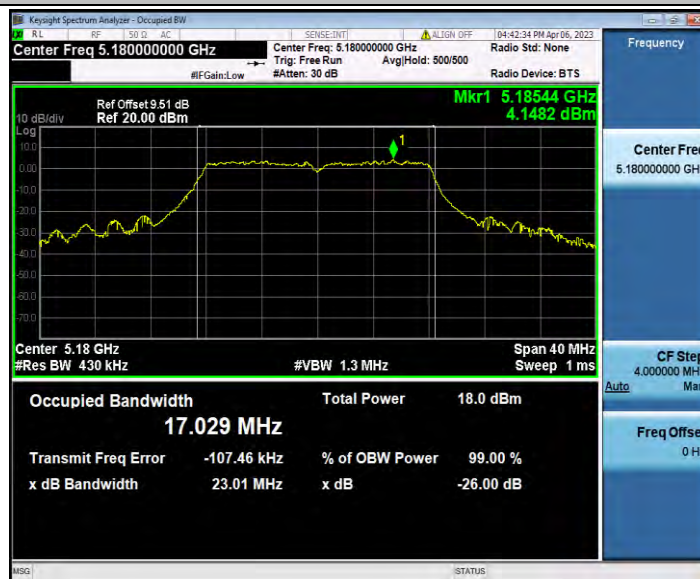
Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.029	5171.378	5188.407	---	---
		5200	17.067	5191.353	5208.420	---	---
		5240	16.988	5231.382	5248.370	---	---
11N20SISO	Ant1	5180	17.946	5170.970	5188.916	---	---
		5200	17.925	5190.982	5208.907	---	---
		5240	17.922	5230.966	5248.888	---	---
11N40SISO	Ant1	5190	36.640	5171.685	5208.325	---	---
		5230	36.606	5211.648	5248.254	---	---
11AC20SISO	Ant1	5180	17.969	5170.978	5188.947	---	---
		5200	17.954	5190.985	5208.939	---	---
		5240	17.949	5230.956	5248.905	---	---
11AC40SISO	Ant1	5190	36.597	5171.746	5208.343	---	---
		5230	36.576	5211.670	5248.246	---	---
11AC80SISO	Ant1	5210	75.554	5172.192	5247.746	---	---

Test Graphs

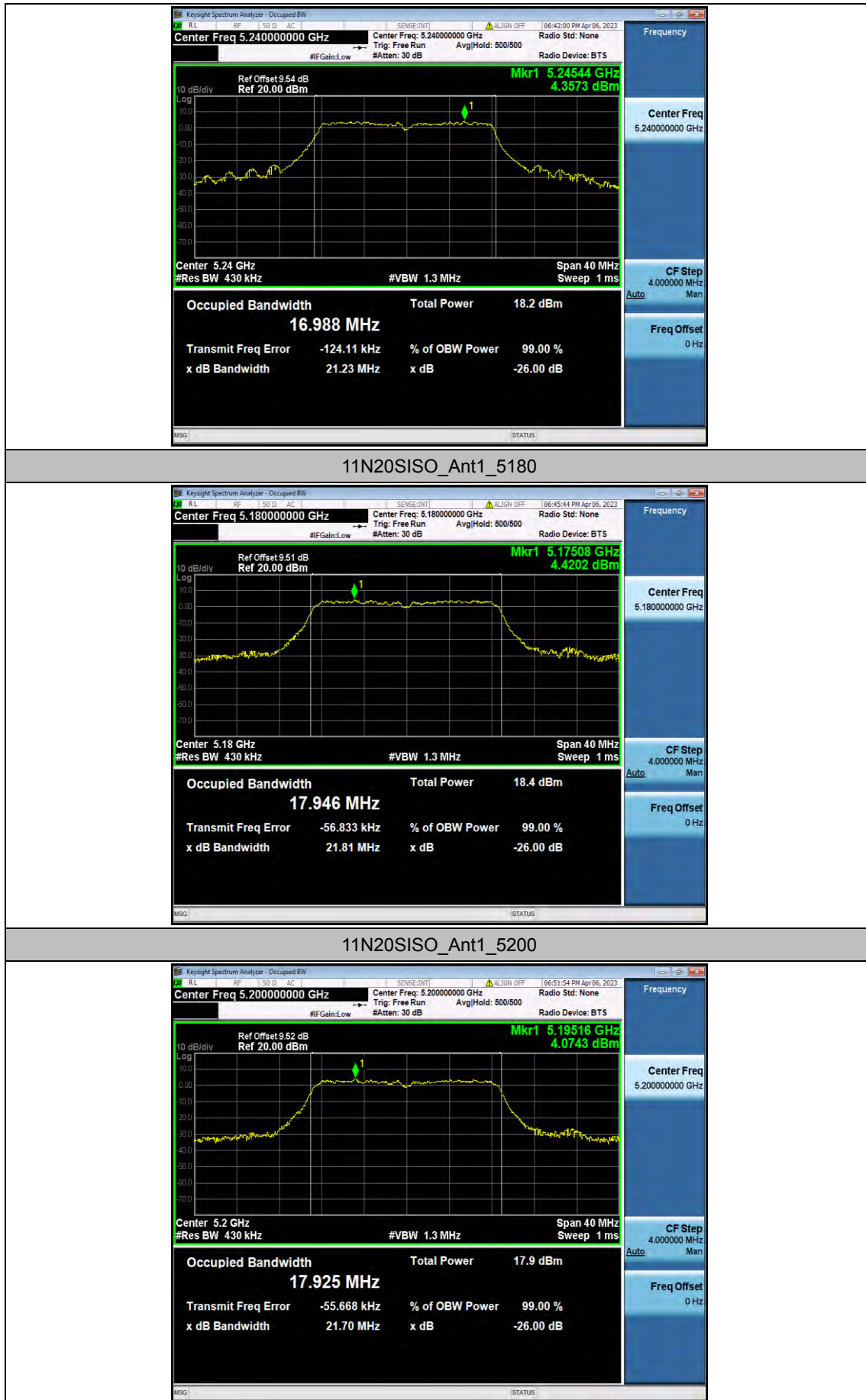
11A_Ant1_5180



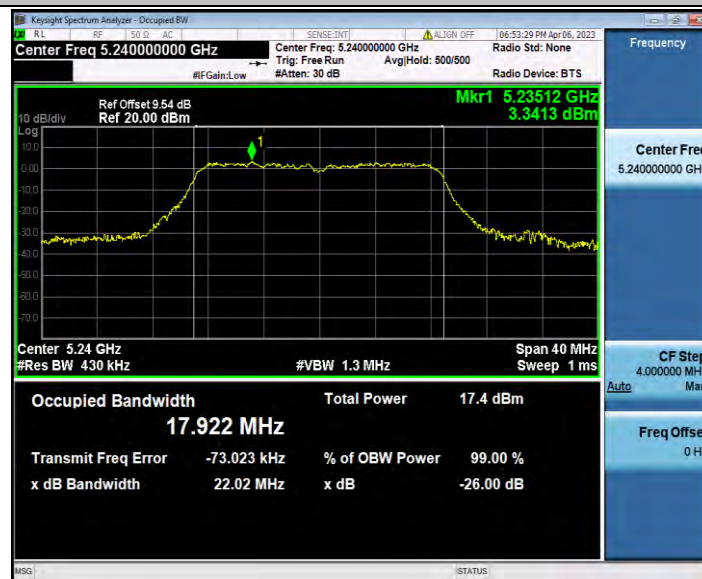
11A_Ant1_5200



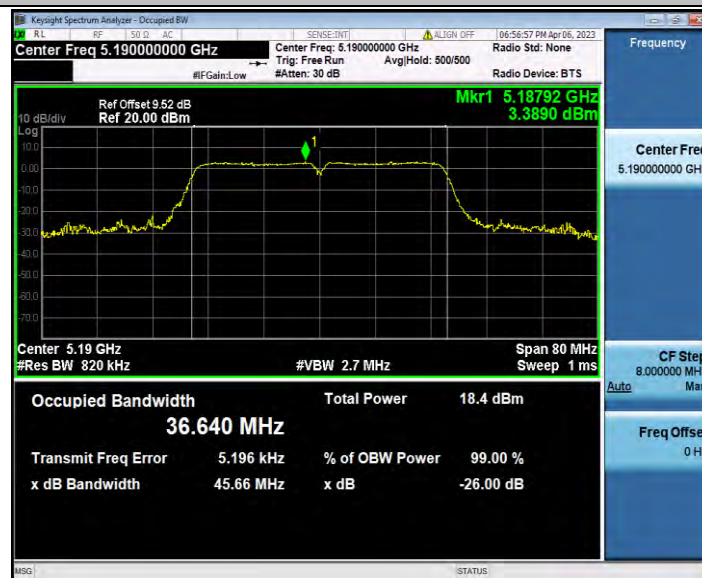
11A_Ant1_5240



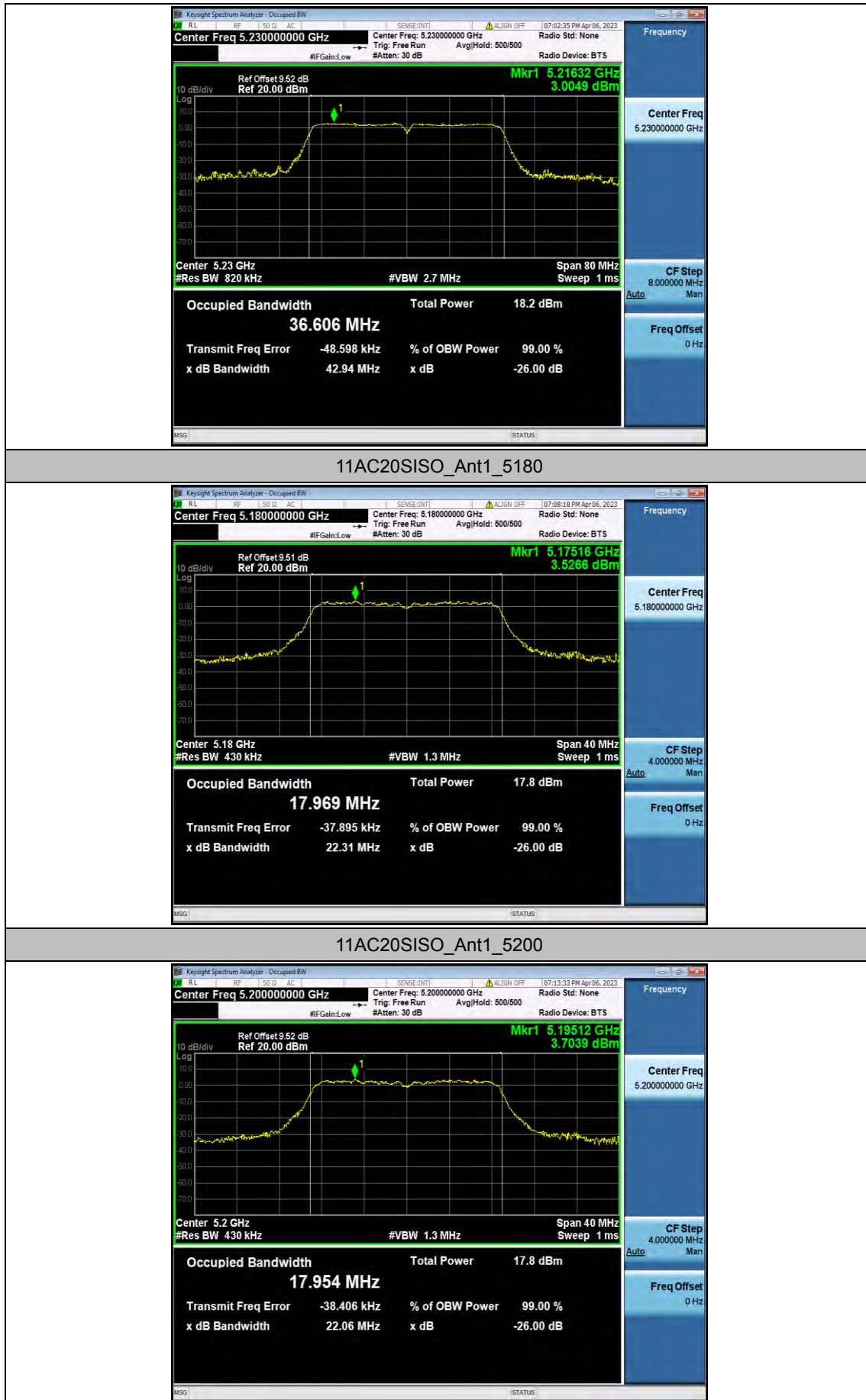
11N20SISO_Ant1_5240



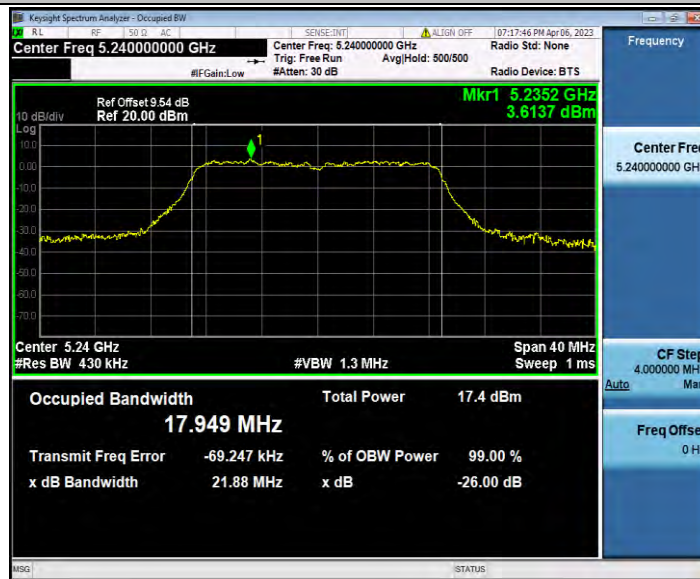
11N40SISO_Ant1_5190



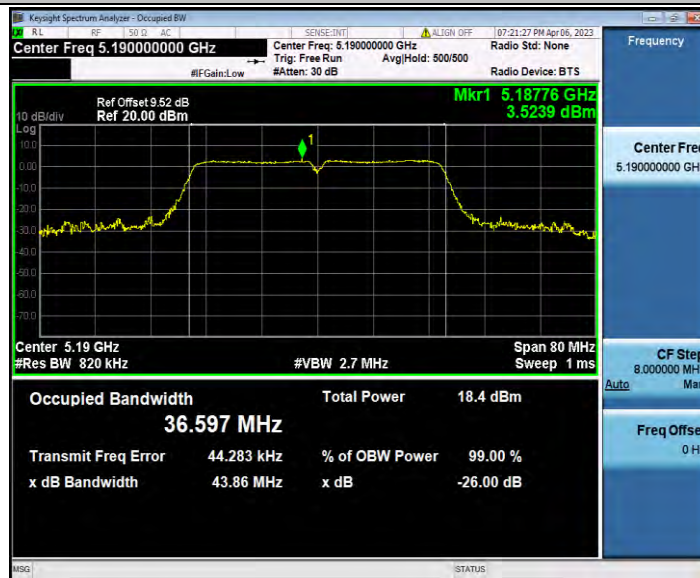
11N40SISO_Ant1_5230



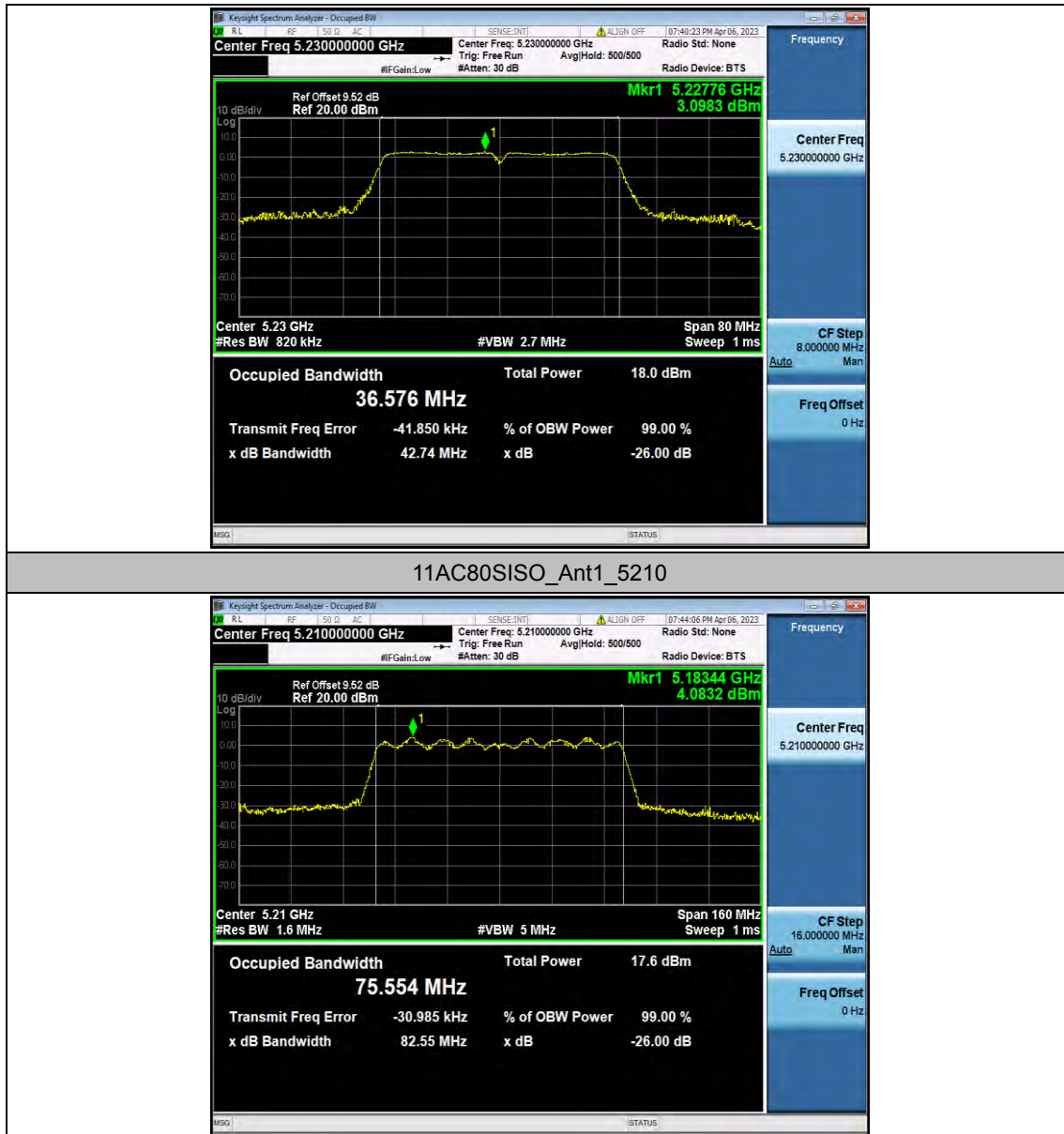
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



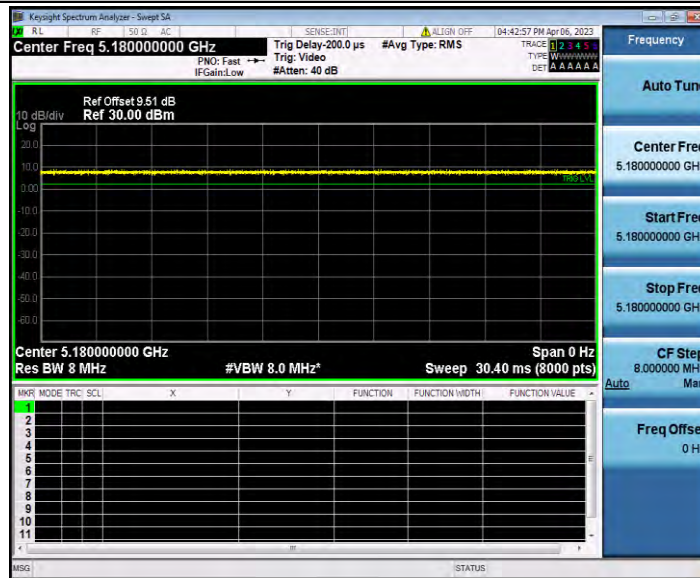
Appendix D.3: Duty Cycle

Test Result

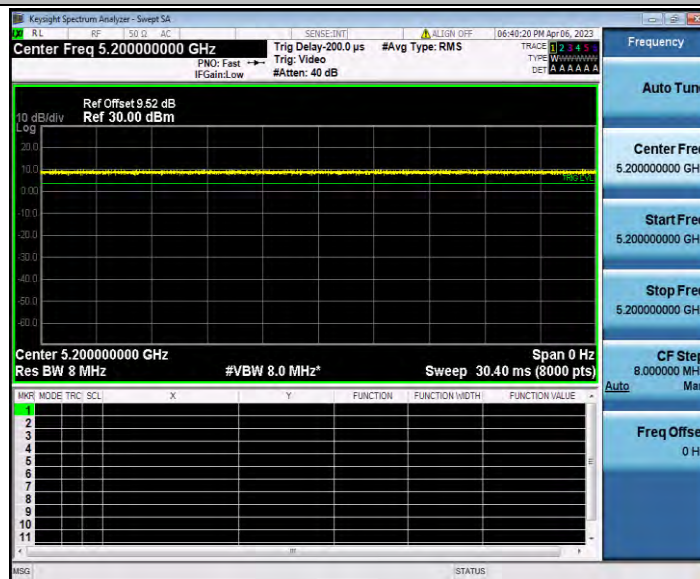
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11N20SISO	Ant1	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11N40SISO	Ant1	5190	30.00	30.00	100.00
		5230	30.00	30.00	100.00
11AC20SISO	Ant1	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11AC40SISO	Ant1	5190	30.00	30.00	100.00
		5230	30.00	30.00	100.00
11AC80SISO	Ant1	5210	30.00	30.00	100.00

Test Graphs

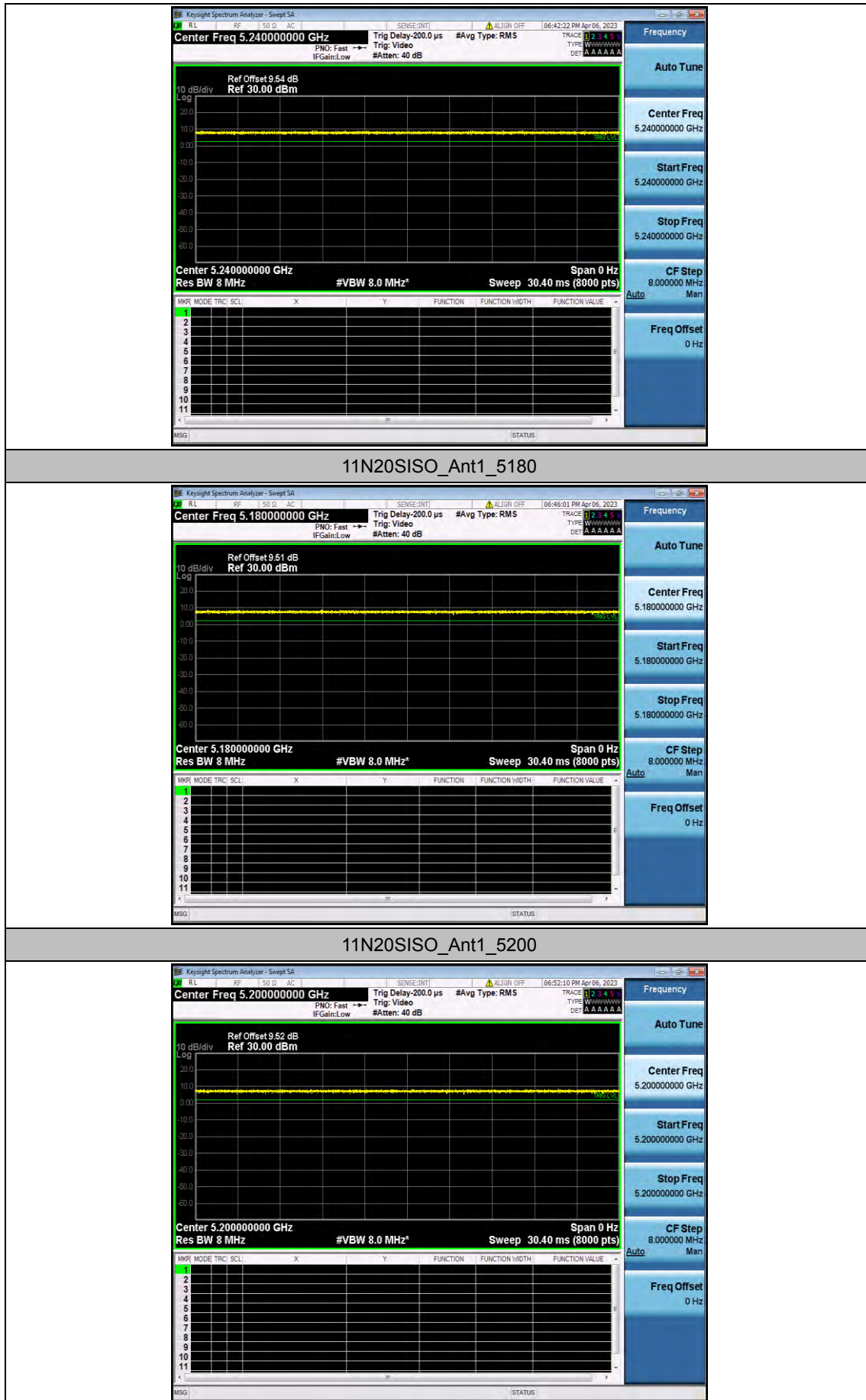
11A_Ant1_5180



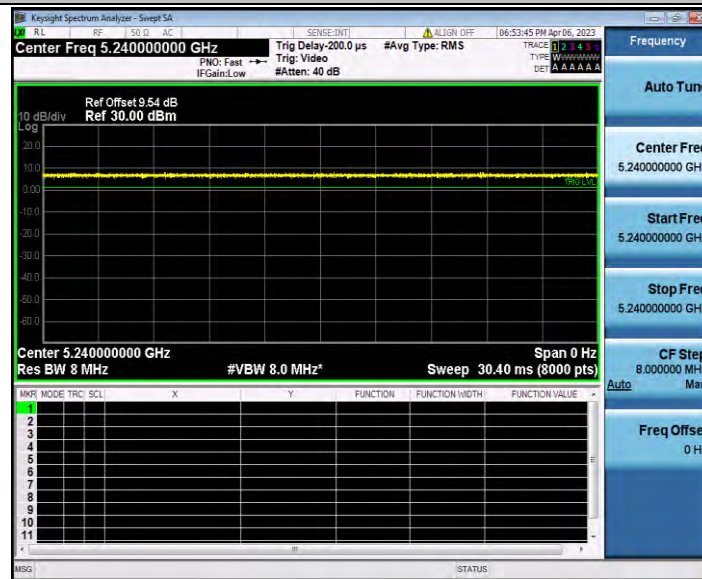
11A_Ant1_5200



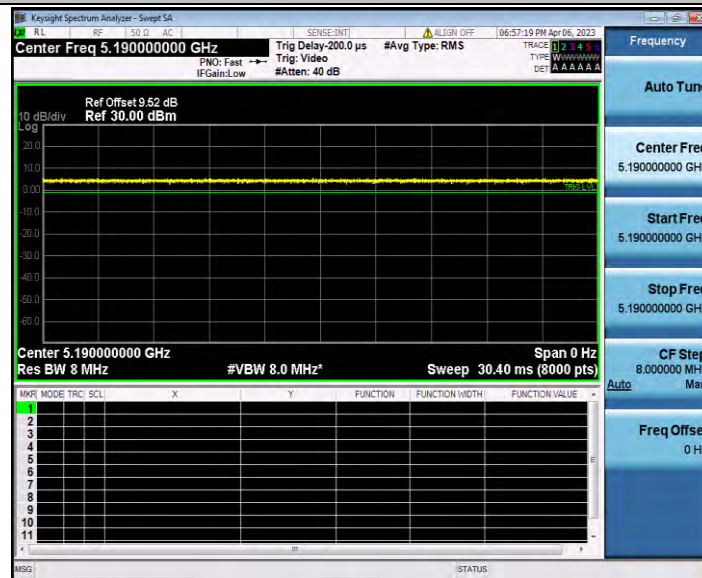
11A_Ant1_5240



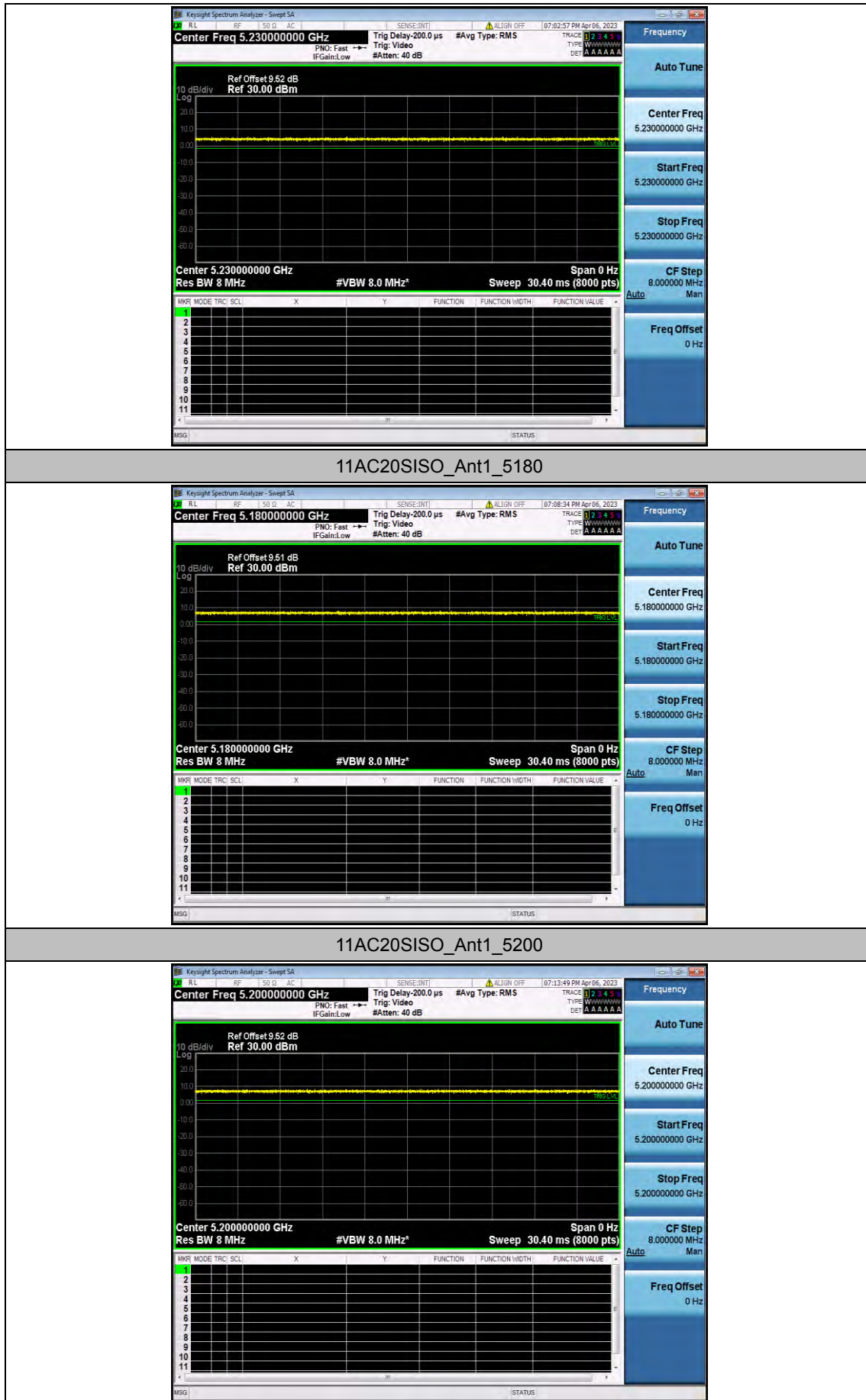
11N20SISO_Ant1_5240



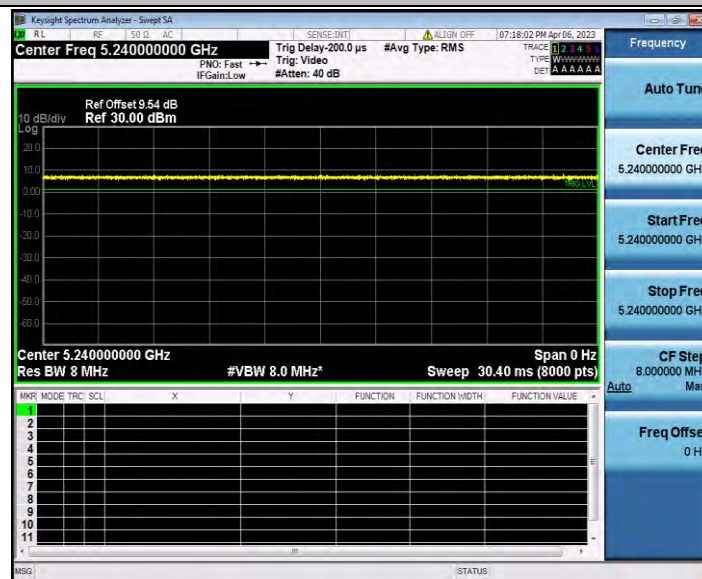
11N40SISO_Ant1_5190



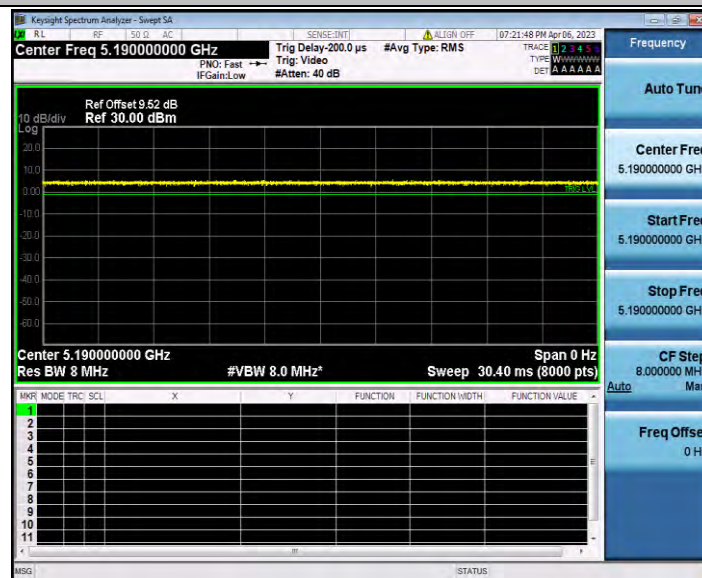
11N40SISO_Ant1_5230



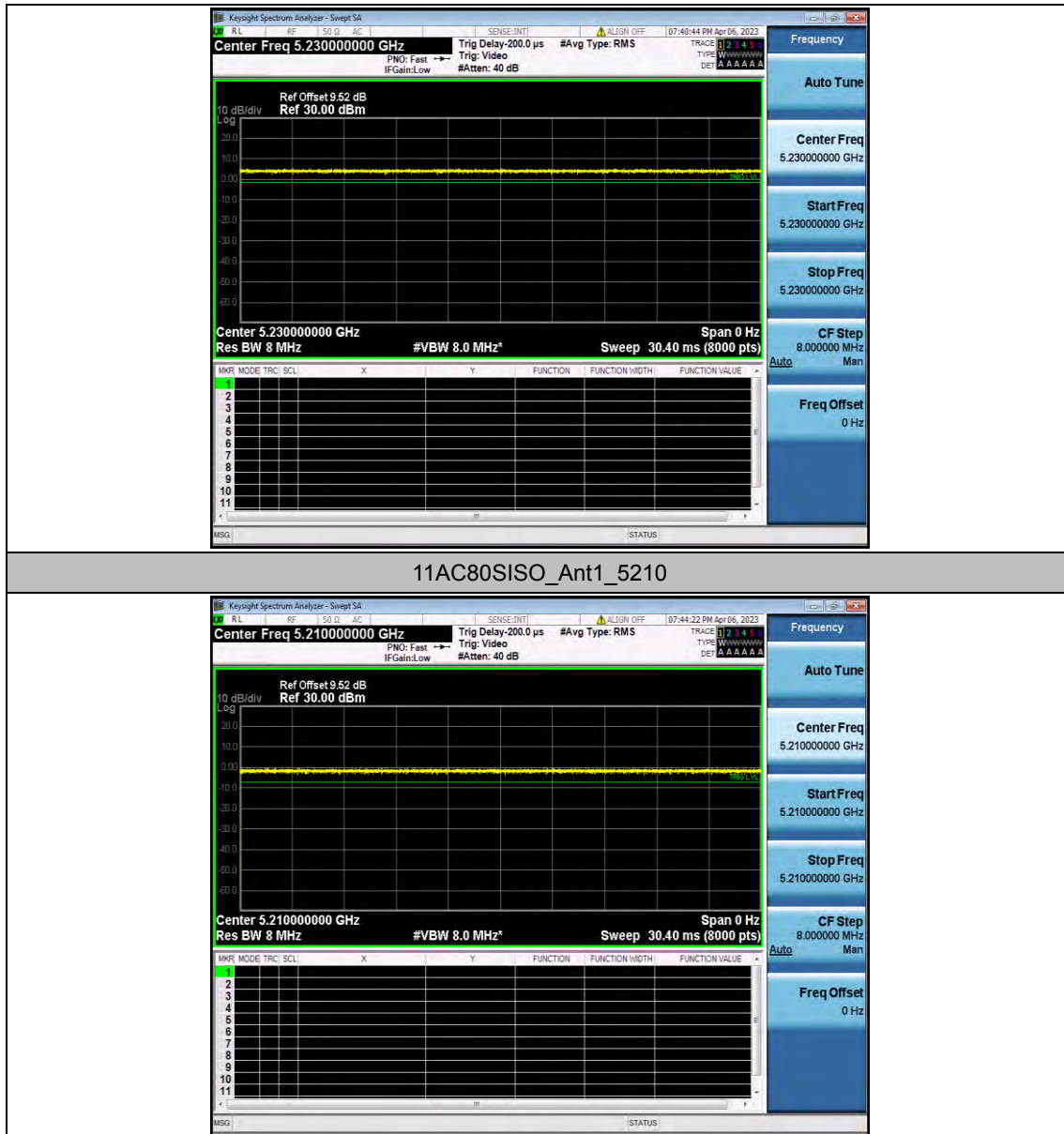
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



Appendix D.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	5180	11.54	100.00	0.00	11.54	≤23.98	PASS
		5200	12.38	100.00	0.00	12.38	≤23.98	PASS
		5240	11.53	100.00	0.00	11.53	≤23.98	PASS
11N20SISO	Ant1	5180	11.58	100.00	0.00	11.58	≤23.98	PASS
		5200	11.16	100.00	0.00	11.16	≤23.98	PASS
		5240	10.64	100.00	0.00	10.64	≤23.98	PASS
11N40SISO	Ant1	5190	11.10	100.00	0.00	11.10	≤23.98	PASS
		5230	10.84	100.00	0.00	10.84	≤23.98	PASS
11AC20SISO	Ant1	5180	10.97	100.00	0.00	10.97	≤23.98	PASS
		5200	11.12	100.00	0.00	11.12	≤23.98	PASS
		5240	10.57	100.00	0.00	10.57	≤23.98	PASS
11AC40SISO	Ant1	5190	11.10	100.00	0.00	11.10	≤23.98	PASS
		5230	10.81	100.00	0.00	10.81	≤23.98	PASS
11AC80SISO	Ant1	5210	8.68	100.00	0.00	8.68	≤23.98	PASS

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

Appendix D.5: Maximum power spectral density

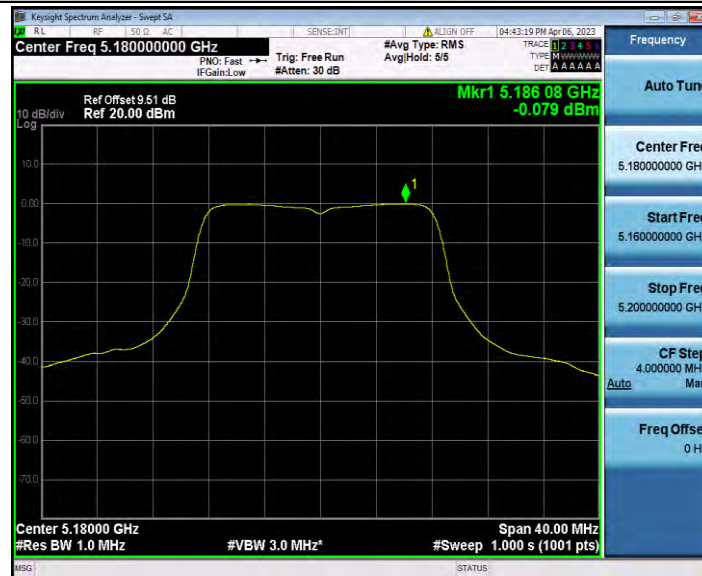
Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-0.08	≤ 11.00	PASS
		5200	0.72	≤ 11.00	PASS
		5240	-0.06	≤ 11.00	PASS
11N20SISO	Ant1	5180	-0.26	≤ 11.00	PASS
		5200	-0.63	≤ 11.00	PASS
		5240	-1.1	≤ 11.00	PASS
11N40SISO	Ant1	5190	-3.61	≤ 11.00	PASS
		5230	-3.81	≤ 11.00	PASS
11AC20SISO	Ant1	5180	-0.86	≤ 11.00	PASS
		5200	-0.67	≤ 11.00	PASS
		5240	-1.16	≤ 11.00	PASS
11AC40SISO	Ant1	5190	-3.61	≤ 11.00	PASS
		5230	-3.84	≤ 11.00	PASS
11AC80SISO	Ant1	5210	-8.07	≤ 11.00	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

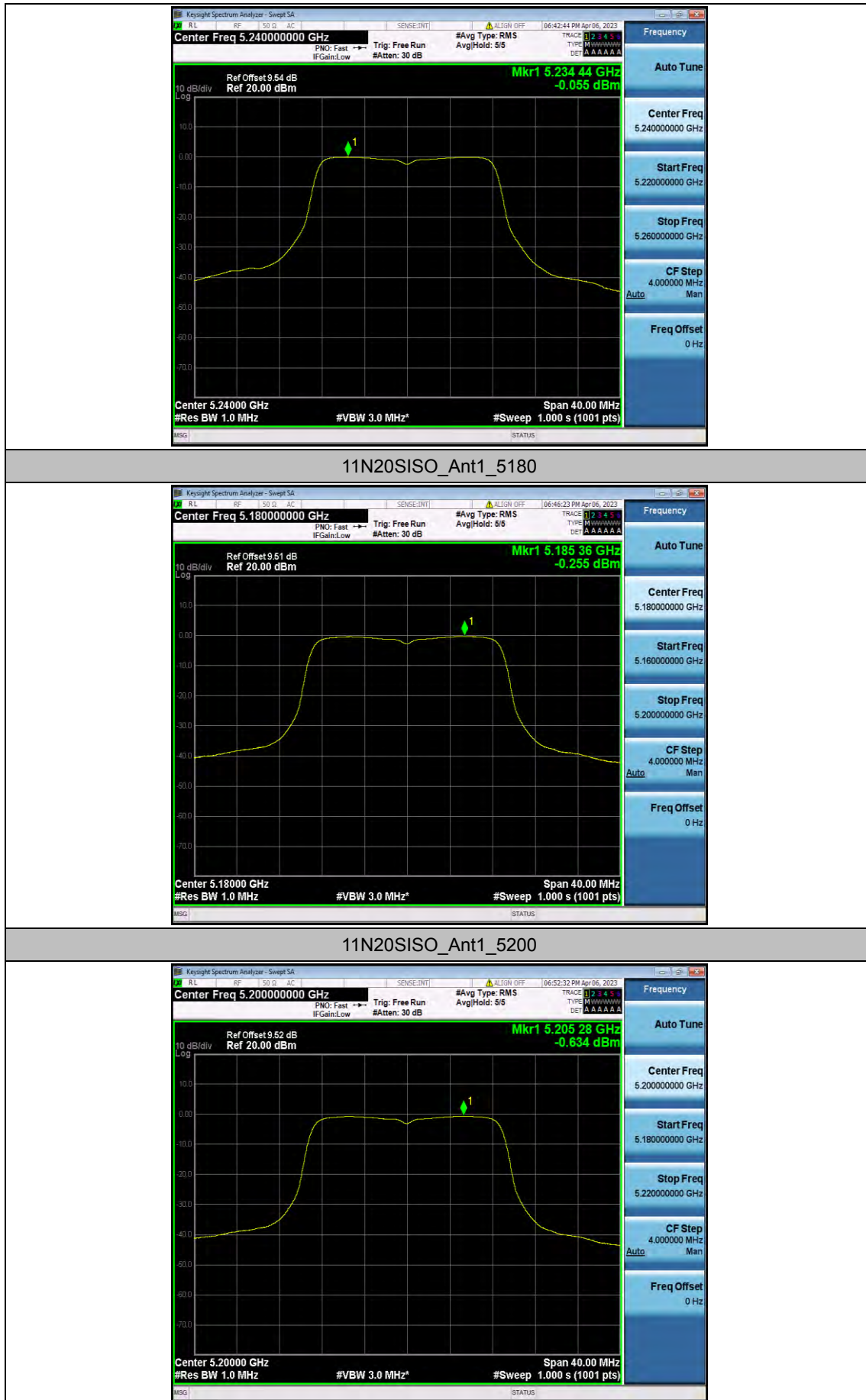
11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5240



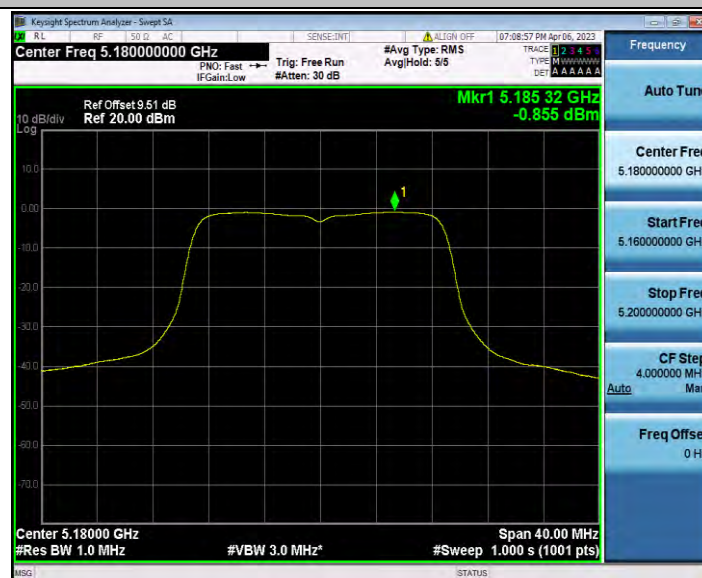
11N40SISO_Ant1_5190



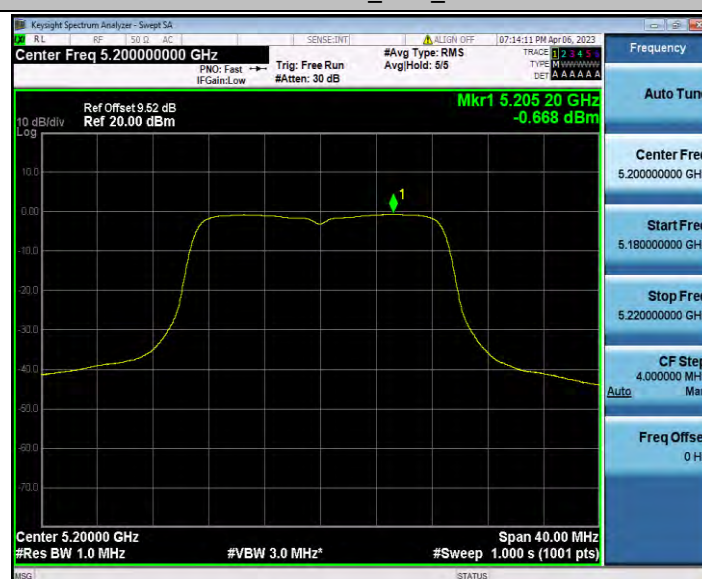
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



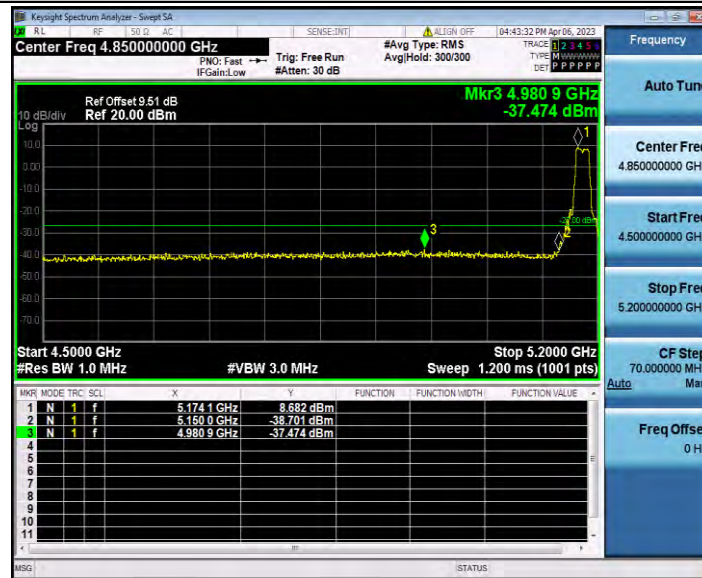
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-37.47	≤ -27	PASS
		High	5240	-37.56	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-33.25	≤ -27	PASS
		High	5240	-36.94	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-29.85	≤ -27	PASS
		High	5230	-37.26	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-34.35	≤ -27	PASS
		High	5240	-37.75	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-30.45	≤ -27	PASS
		High	5230	-38.18	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-32.79	≤ -27	PASS
		High	5210	-38.35	≤ -27	PASS

Test Graphs B1

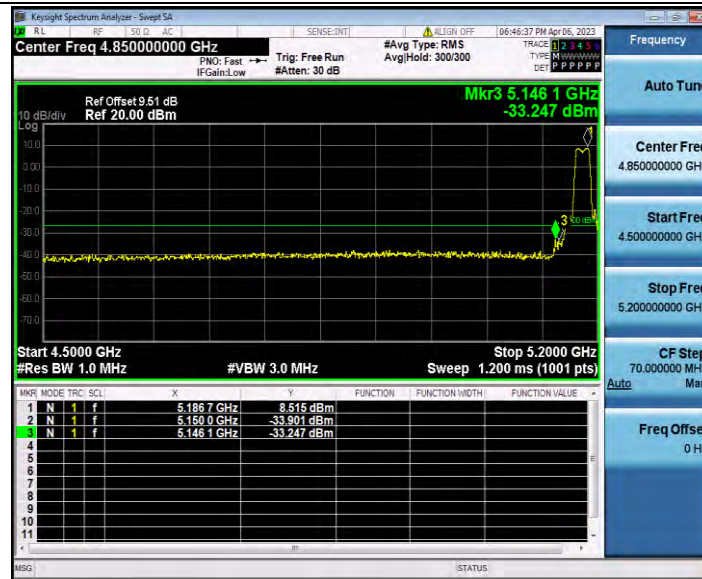
11A_Ant1_Low_5180



11A_Ant1_High_5240



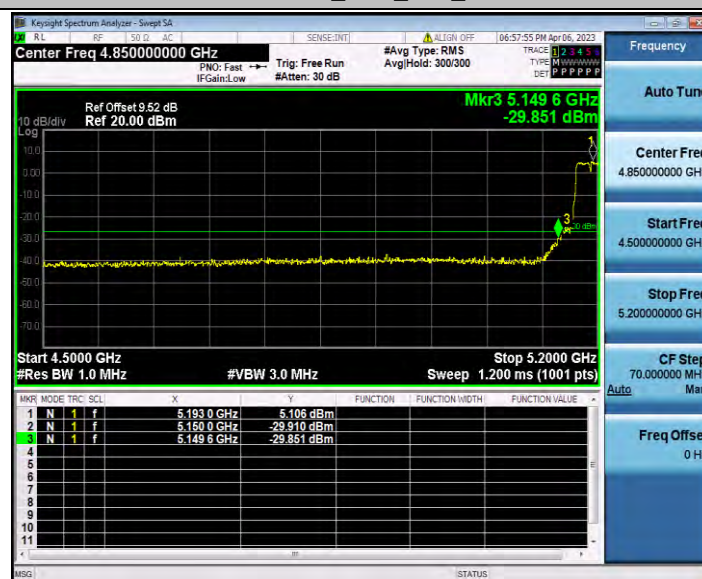
11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



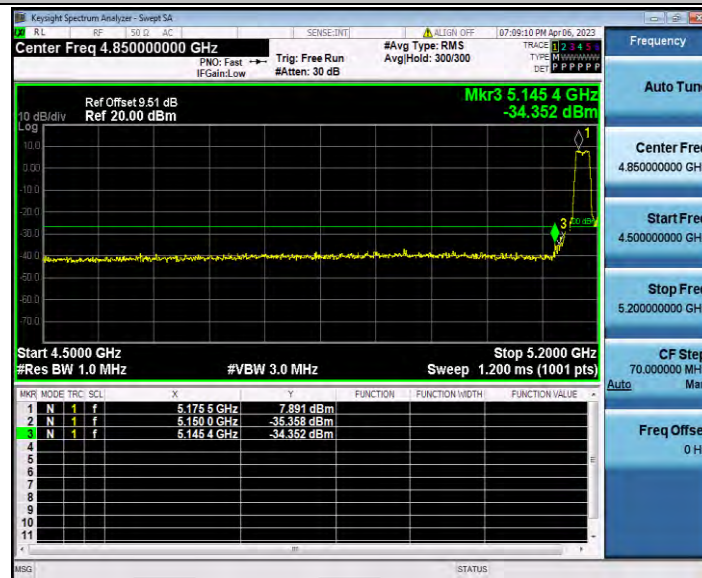
11N40SISO_Ant1_Low_5190



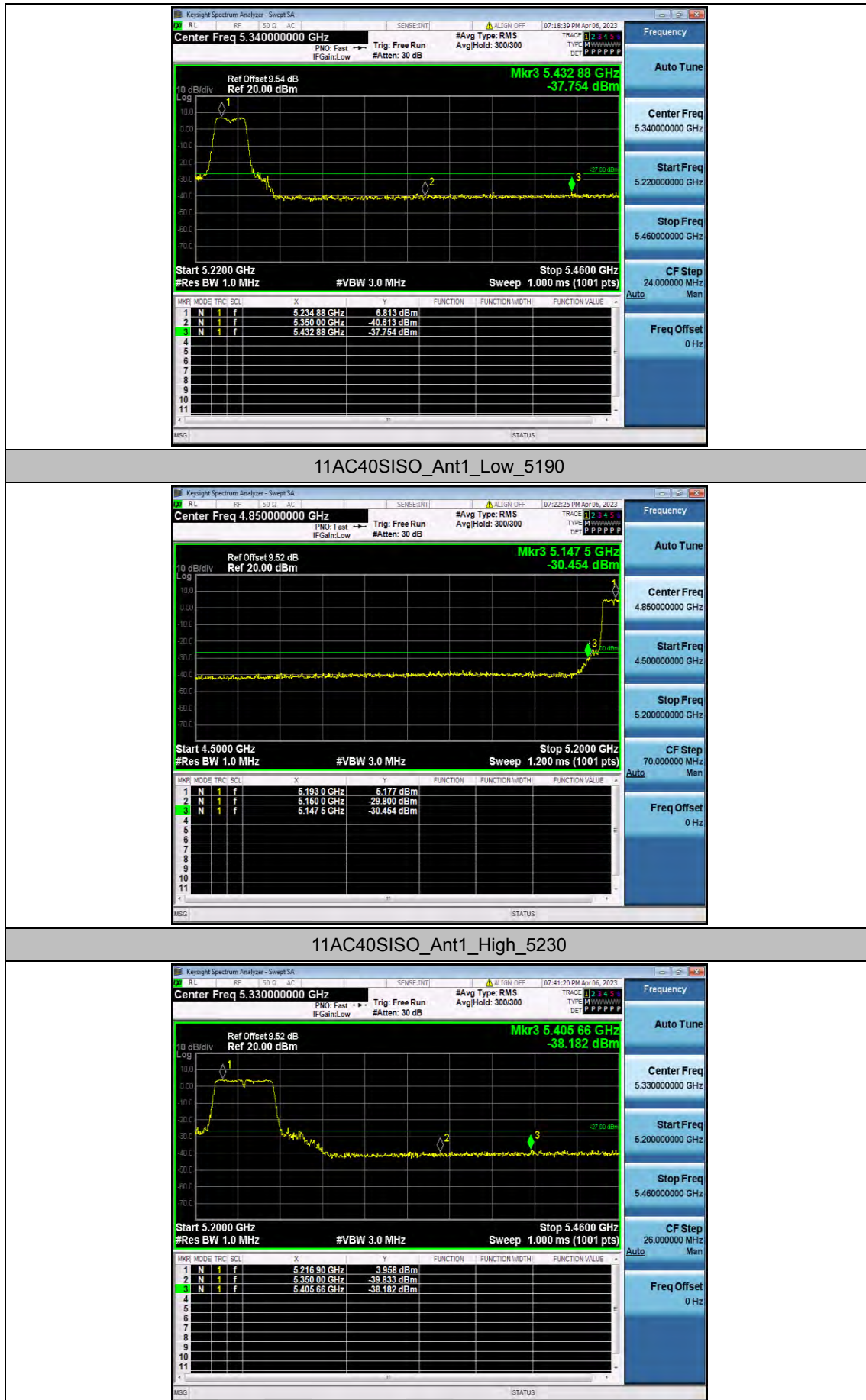
11N40SISO_Ant1_High_5230



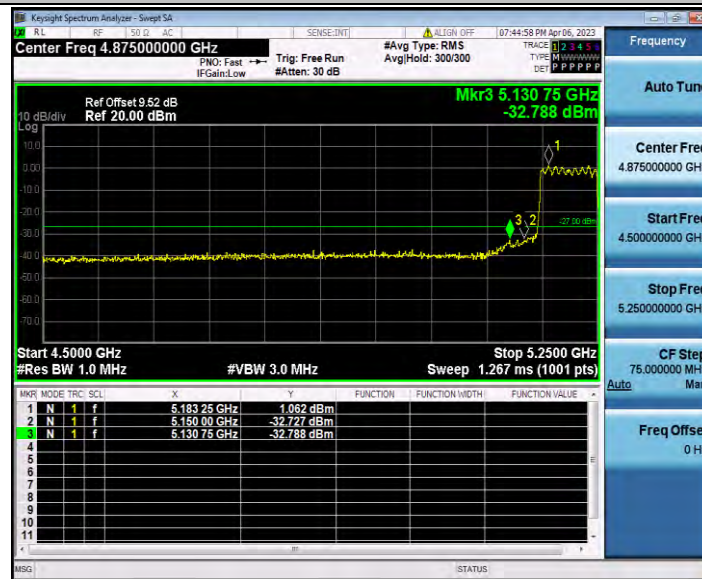
11AC20SISO_Ant1_Low_5180



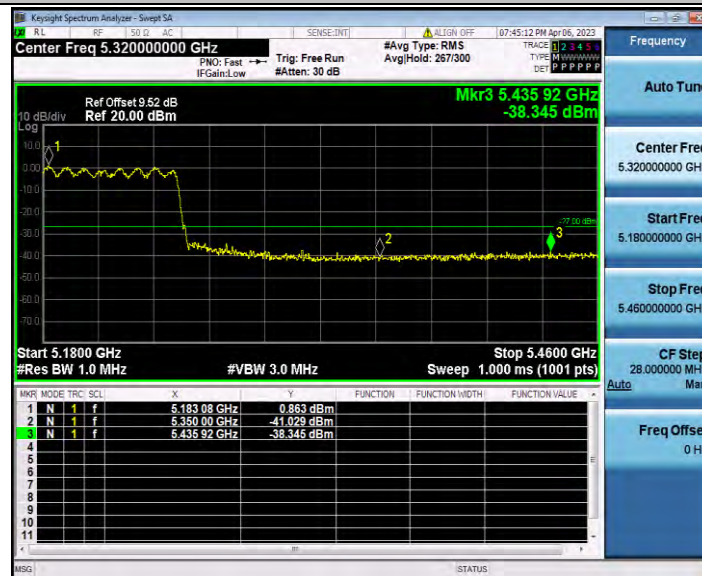
11AC20SISO_Ant1_High_5240



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



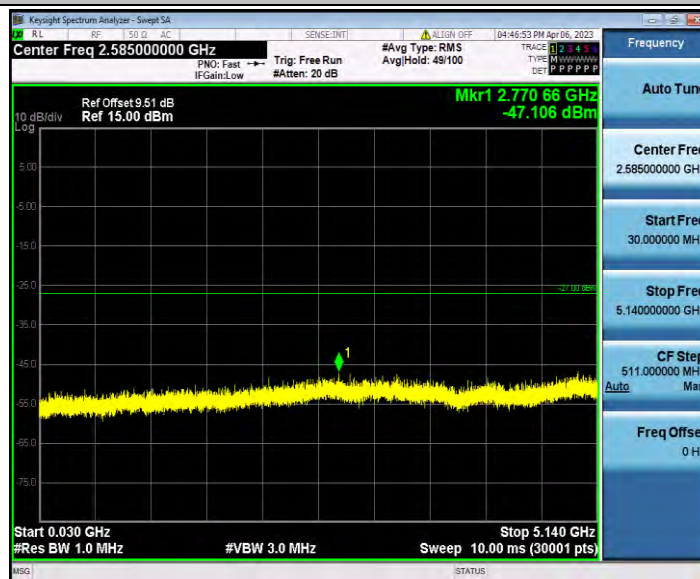
Appendix D.7: Conducted Spurious Emission

Test Result

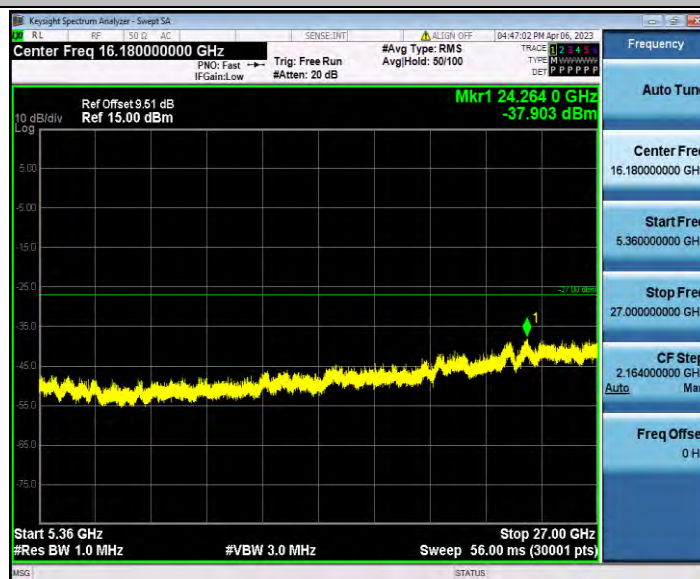
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	2770.66	-47.11	≤-27	PASS
			5360~40000	24263.98	-37.9	≤-27	PASS
		5200	30~5140	4924.87	-46.43	≤-27	PASS
			5360~40000	26051.45	-37.96	≤-27	PASS
		5240	30~5140	4910.05	-47.28	≤-27	PASS
			5360~40000	24867.02	-38.01	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5136.59	-46.79	≤-27	PASS
			5360~40000	24801.38	-37.82	≤-27	PASS
		5200	30~5140	2637.29	-46.72	≤-27	PASS
			5360~40000	25071.15	-37.92	≤-27	PASS
		5240	30~5140	4995.22	-46.66	≤-27	PASS
			5360~40000	24246.67	-38.06	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5137.45	-39.83	≤-27	PASS
			5360~40000	24222.15	-37.37	≤-27	PASS
		5230	30~5140	5000.33	-46.1	≤-27	PASS
			5360~40000	26990.62	-38.37	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	3597.12	-47.25	≤-27	PASS
			5360~40000	25247.88	-37.5	≤-27	PASS
		5200	30~5140	4944.46	-47.34	≤-27	PASS
			5360~40000	26655.2	-37.91	≤-27	PASS
		5240	30~5140	2680.39	-46.52	≤-27	PASS
			5360~40000	25651.11	-38.18	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5138.13	-37.14	≤-27	PASS
			5360~40000	24280.57	-38	≤-27	PASS
		5230	30~5140	4961.66	-46.01	≤-27	PASS
			5360~40000	24241.62	-38.19	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5138.64	-35.92	≤-27	PASS
			5360~40000	24779.74	-36.67	≤-27	PASS

Test Graphs

11A_Ant1_5180_30~5140



11A_Ant1_5180_5360~40000



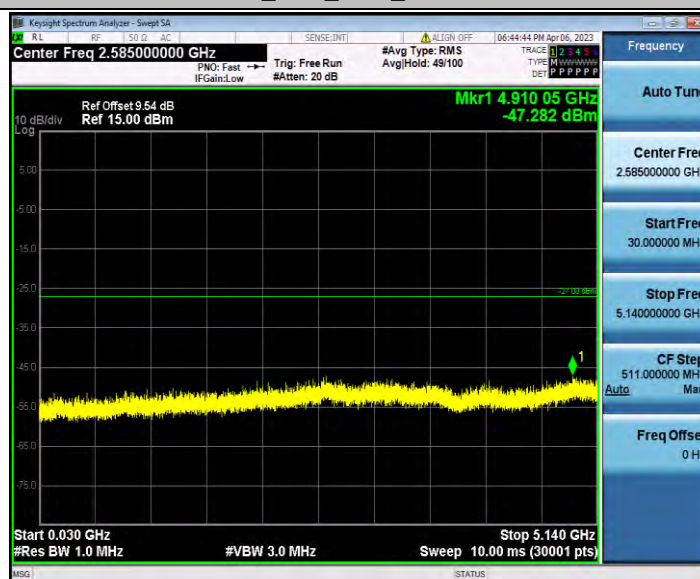
11A_Ant1_5200_30~5140



11A_Ant1_5200_5360~40000



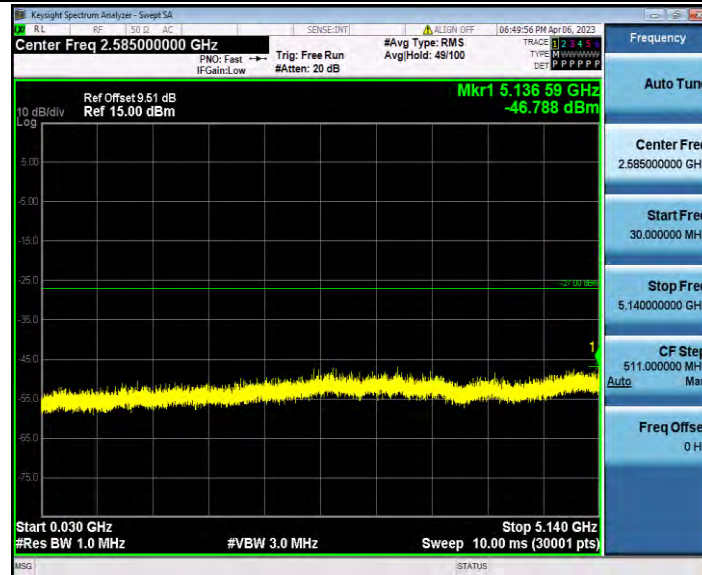
11A_Ant1_5240_30~5140



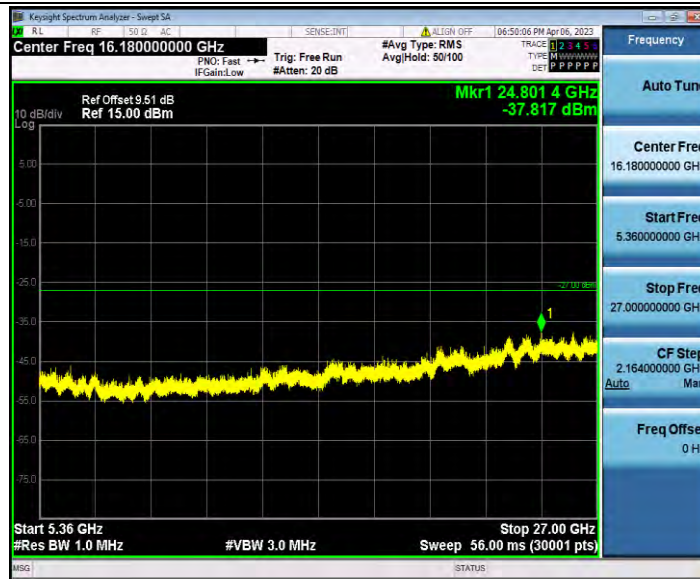
11A_Ant1_5240_5360~40000



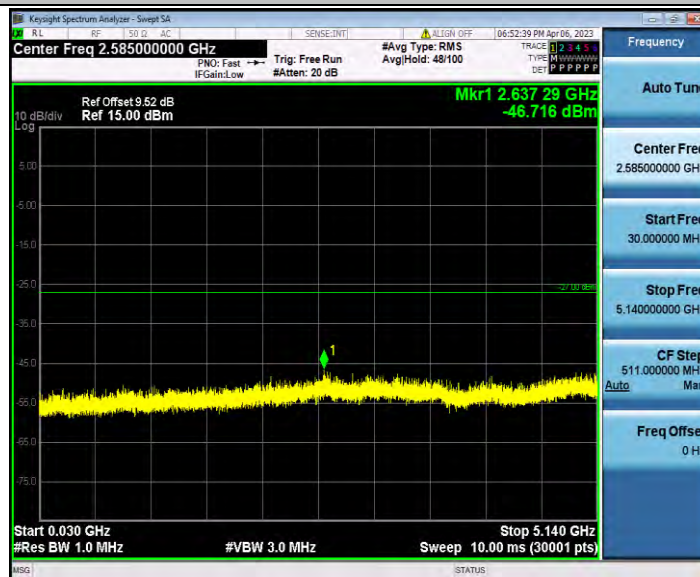
11N20SISO_Ant1_5180_30~5140



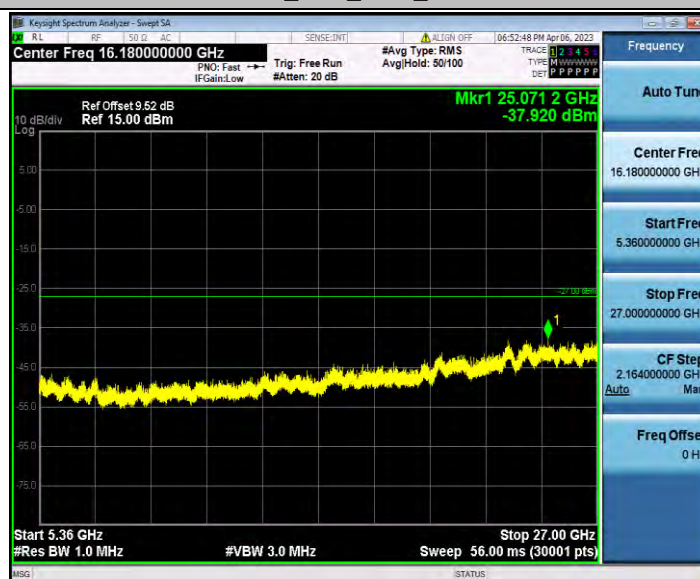
11N20SISO_Ant1_5180_5360~40000



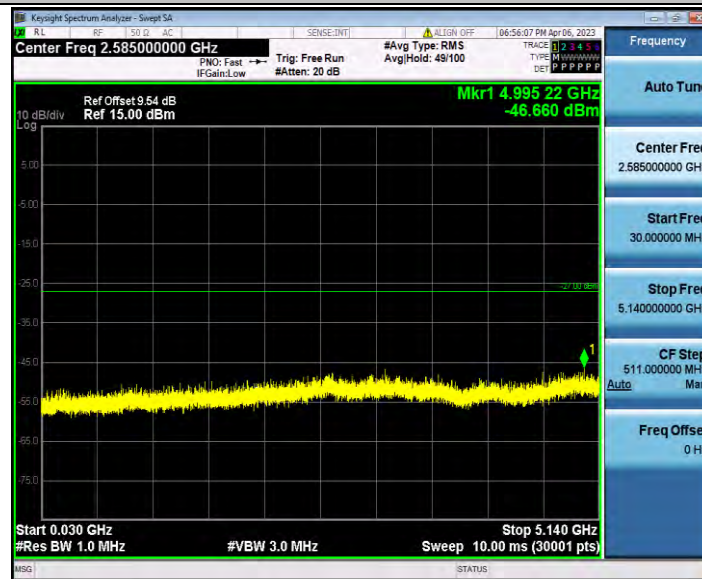
11N20SISO_Ant1_5200_30~5140



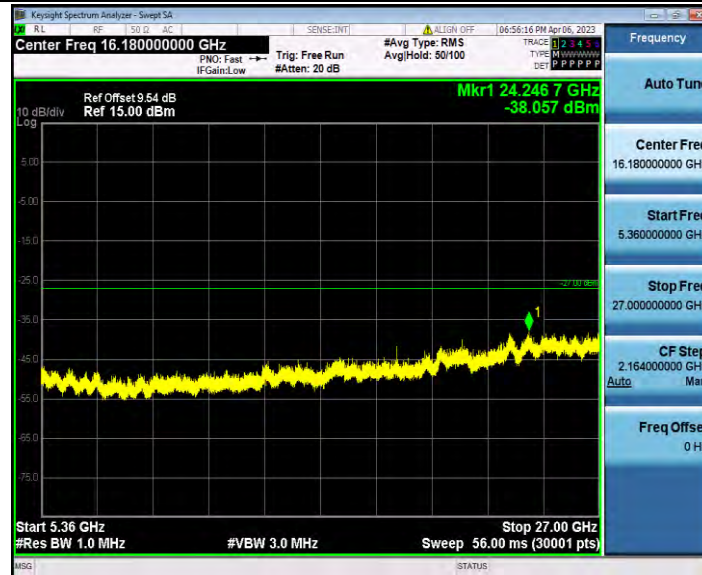
11N20SISO_Ant1_5200_5360~40000



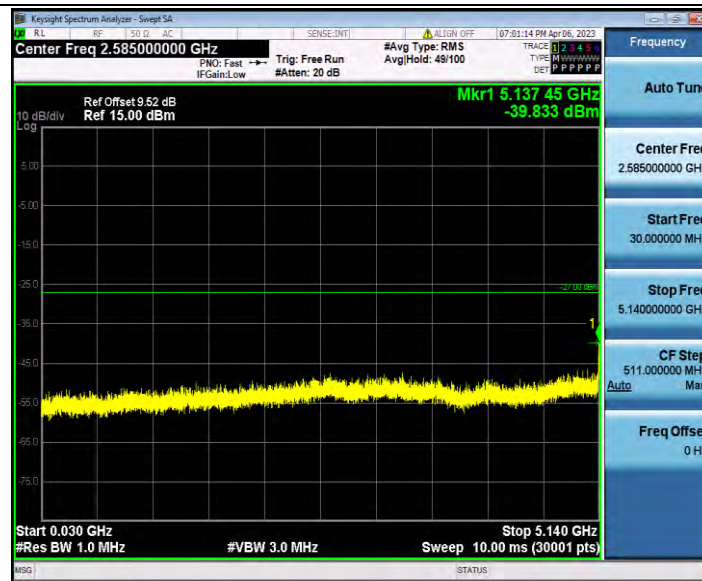
11N20SISO_Ant1_5240_30~5140



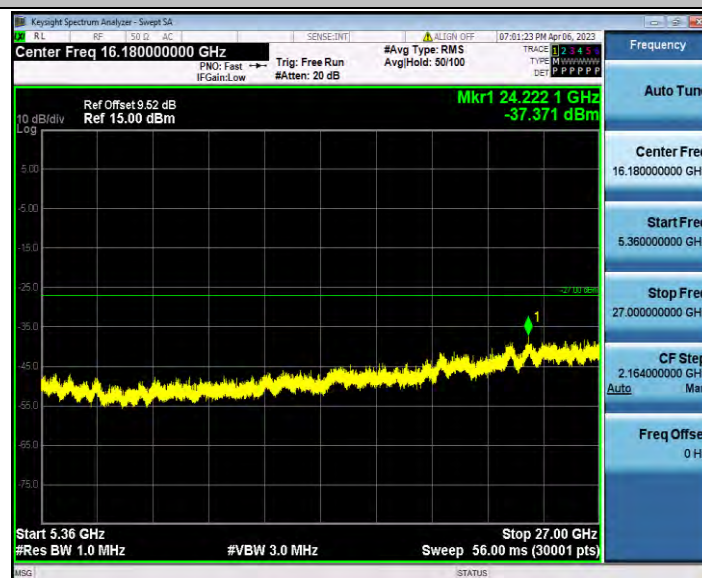
11N20SISO_Ant1_5240_5360~40000



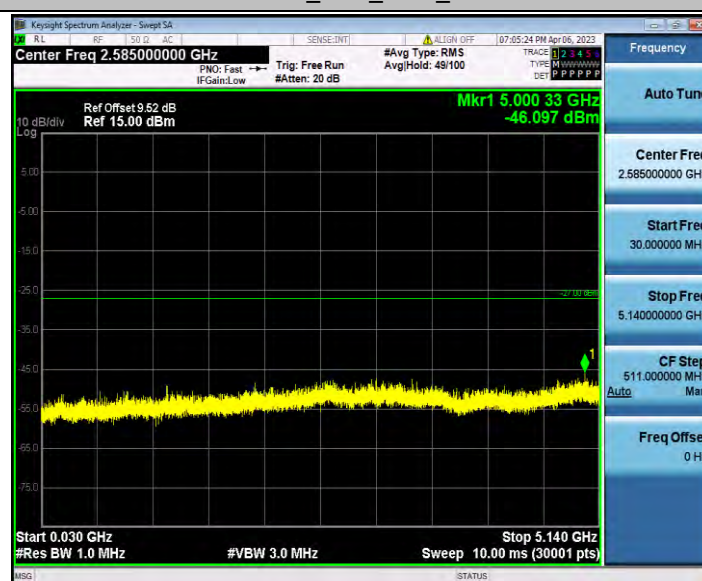
11N40SISO_Ant1_5190_30~5140



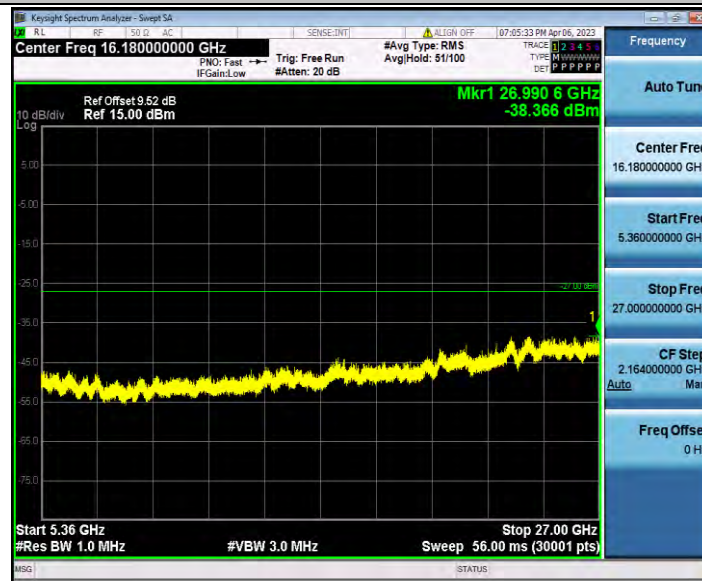
11N40SISO_Ant1_5190_5360~40000



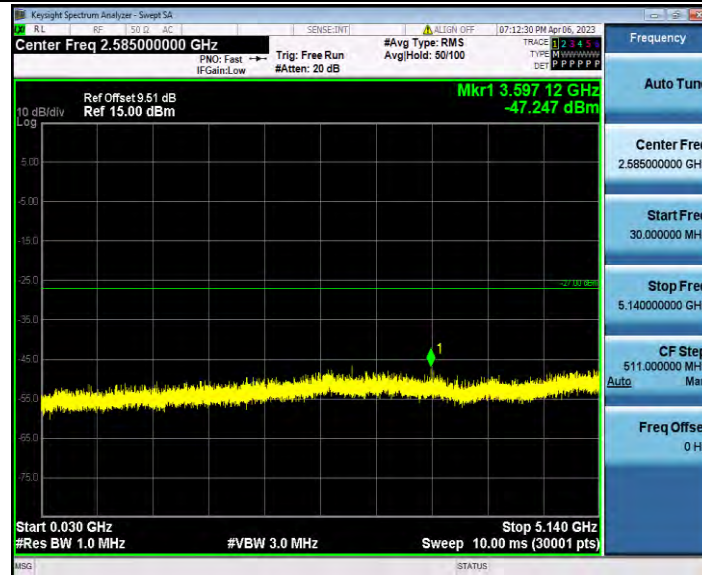
11N40SISO_Ant1_5230_30~5140



11N40SISO_Ant1_5230_5360~40000



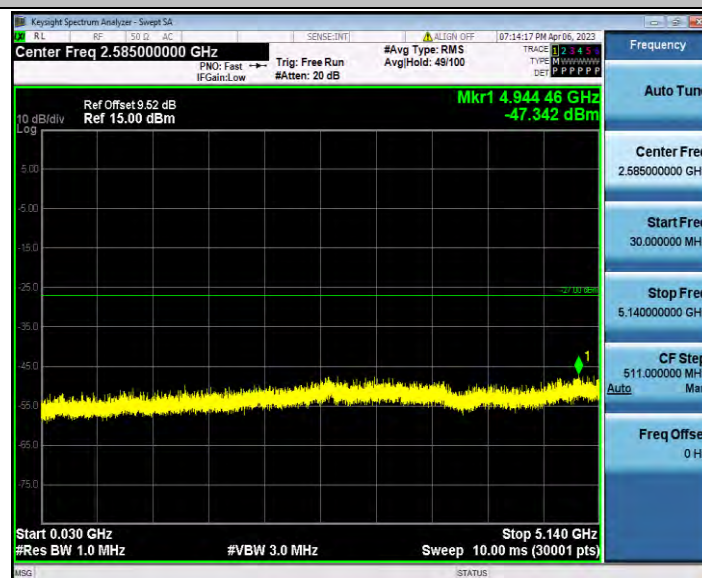
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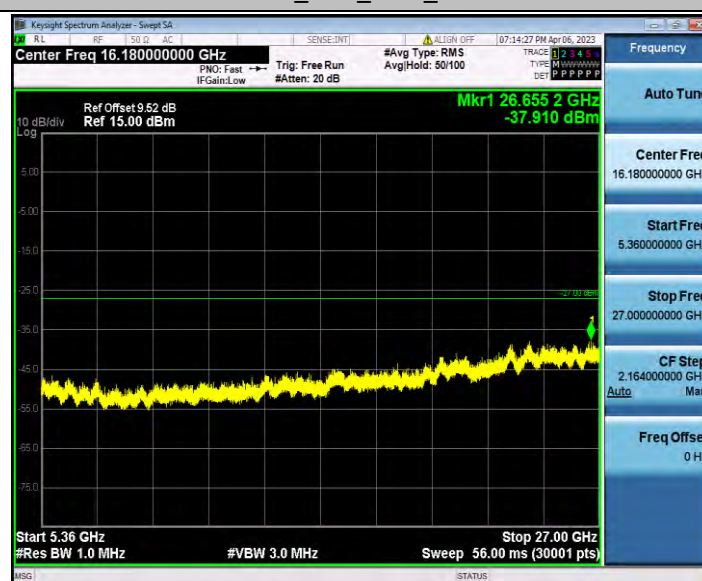
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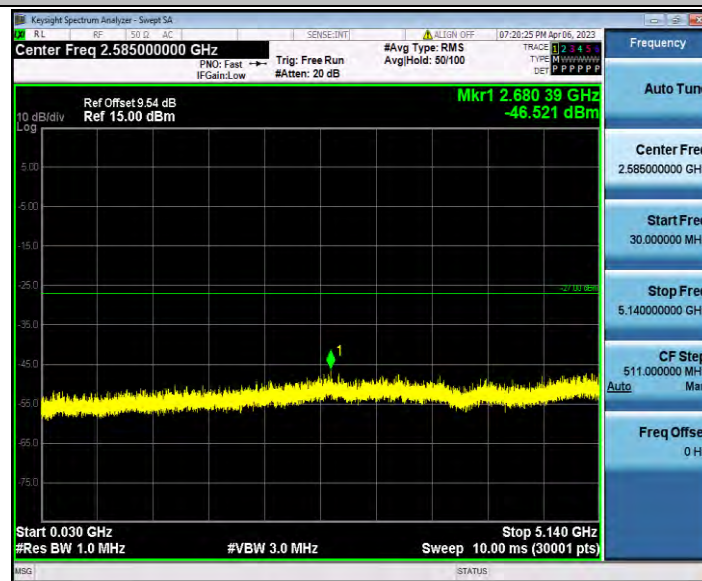
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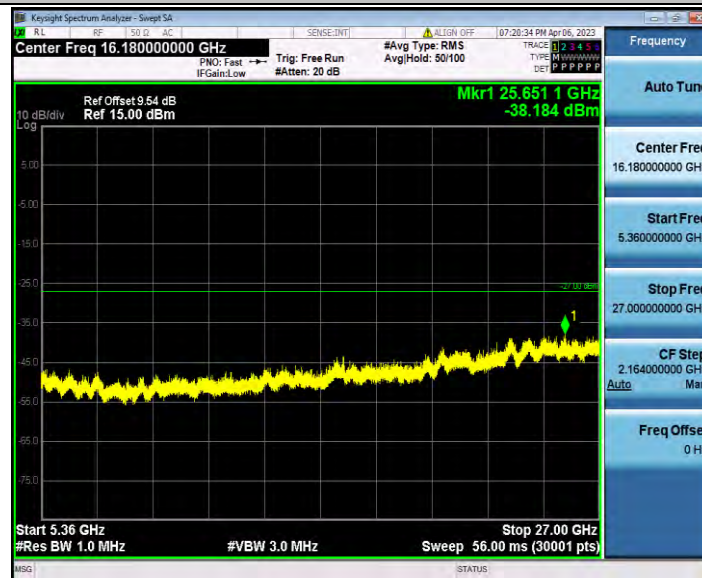
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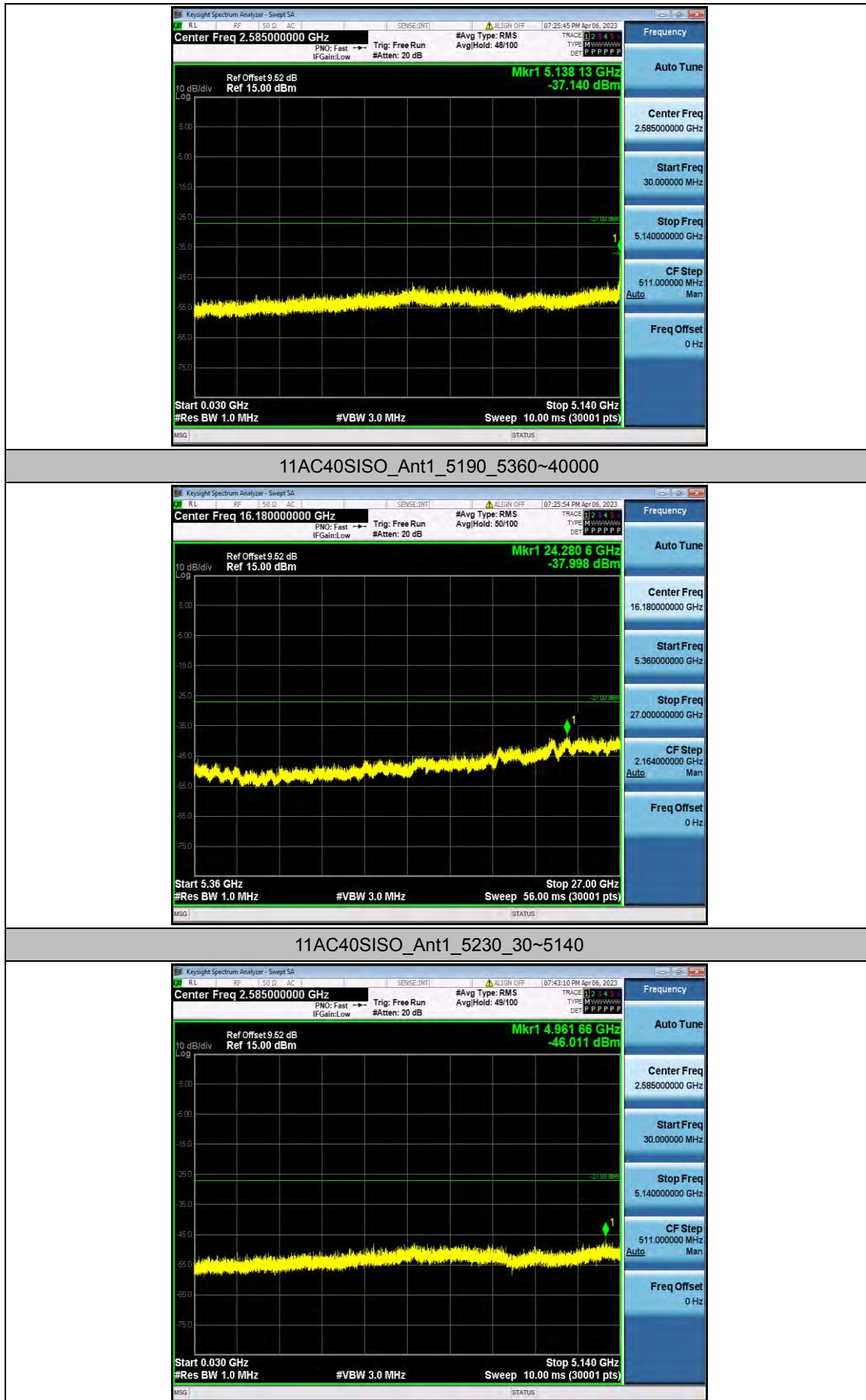
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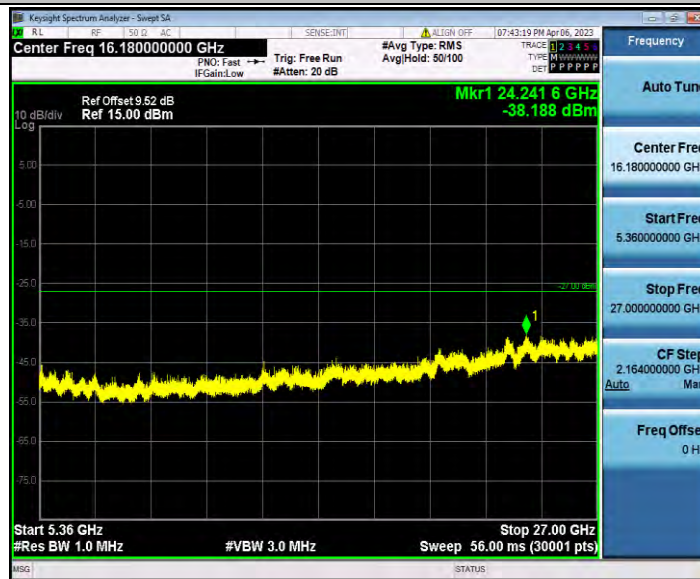
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11AC40SISO_Ant1_5190_30~5140



11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_30~5140



11AC80SISO_Ant1_5210_5360~40000

