

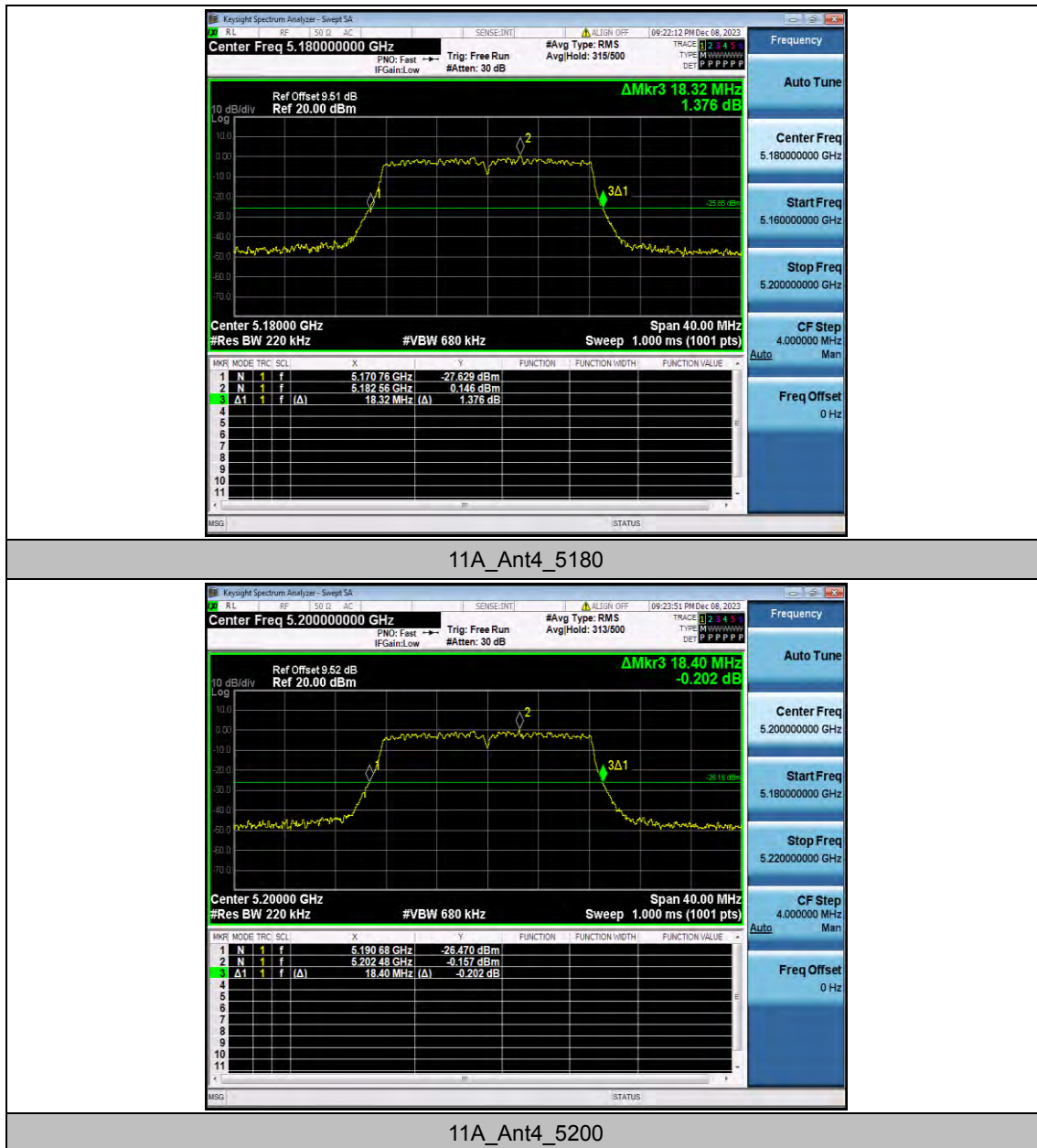
Case No. : <u>GTS20231012003-1-11</u>	
Ambient Condition: <u>23</u> °C, <u>48</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.12.8</u>	Test Engineer: <u>Evan ouyang</u>

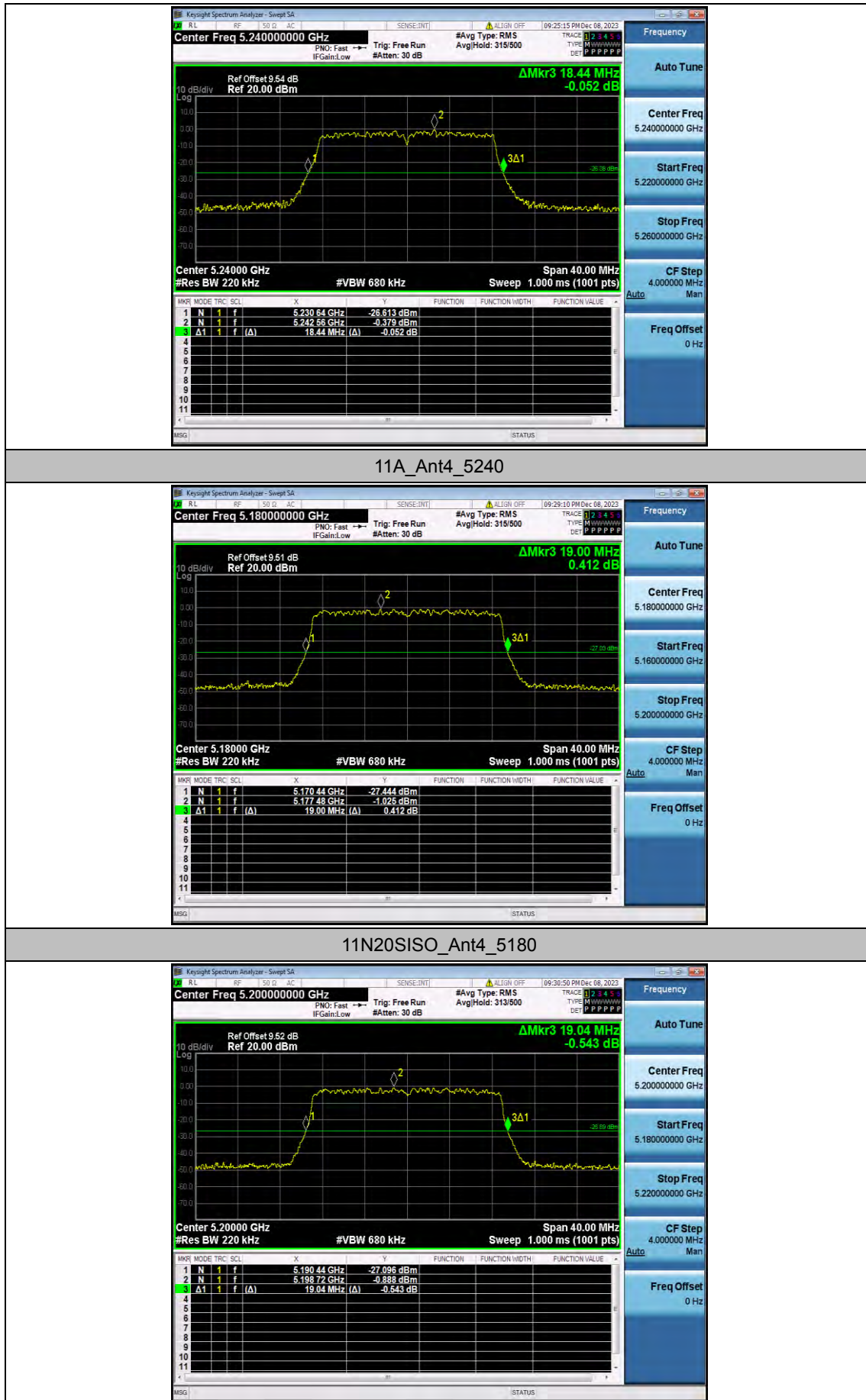
Appendix D.1: Emission Bandwidth

Test Result

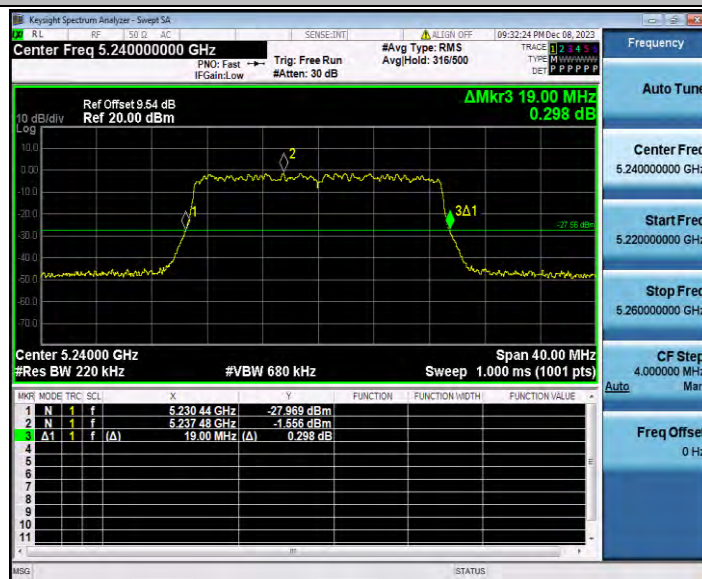
Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant4	5180	18.320	5170.760	5189.080	---	---
		5200	18.400	5190.680	5209.080	---	---
		5240	18.440	5230.640	5249.080	---	---
11N20SISO	Ant4	5180	19.000	5170.440	5189.440	---	---
		5200	19.040	5190.440	5209.480	---	---
		5240	19.000	5230.440	5249.440	---	---
11N40SISO	Ant4	5190	38.800	5170.560	5209.360	---	---
		5230	38.720	5210.560	5249.280	---	---
11AC20SISO	Ant4	5180	19.280	5170.280	5189.560	---	---
		5200	19.320	5190.240	5209.560	---	---
		5240	19.280	5230.240	5249.520	---	---
11AC40SISO	Ant4	5190	39.040	5170.400	5209.440	---	---
		5230	38.960	5210.480	5249.440	---	---
11AC80SISO	Ant4	5210	86.240	5167.280	5253.520	---	---

Test Graphs





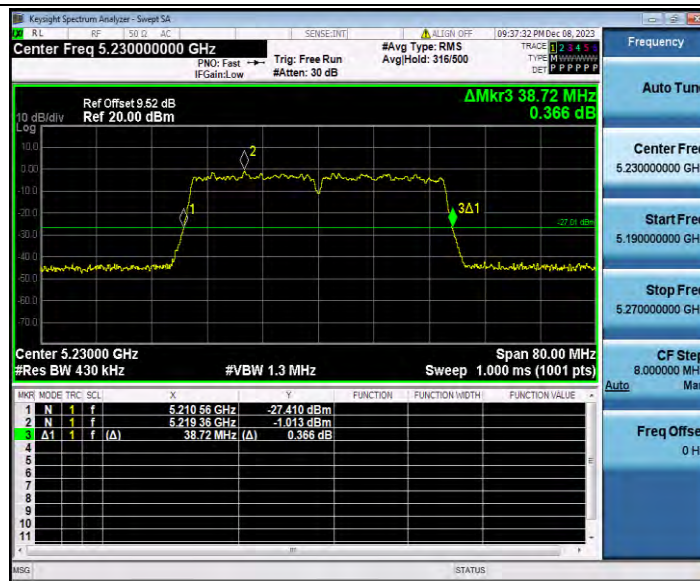
11N20SISO_Ant4_5200



11N20SISO_Ant4_5240



11N40SISO_Ant4_5190



11N40SISO_Ant4_5230



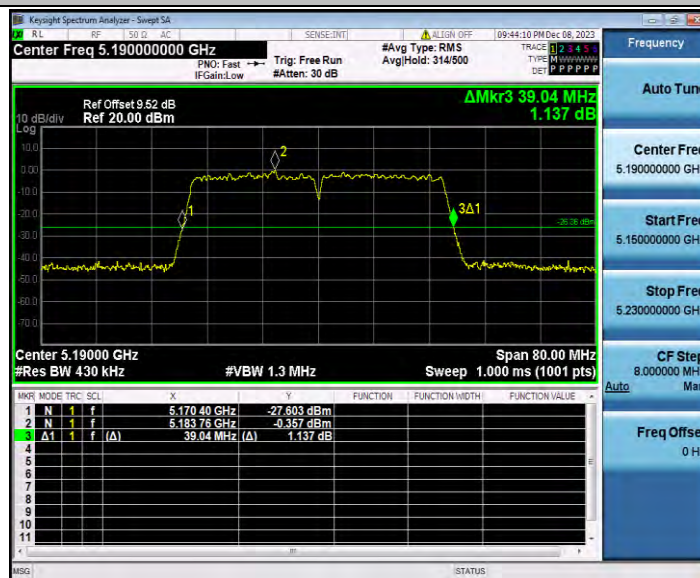
11AC20SISO_Ant4_5180



11AC20SISO_Ant4_5200



11AC20SISO_Ant4_5240



11AC40SISO_Ant4_5190



11AC40SISO_Ant4_5230



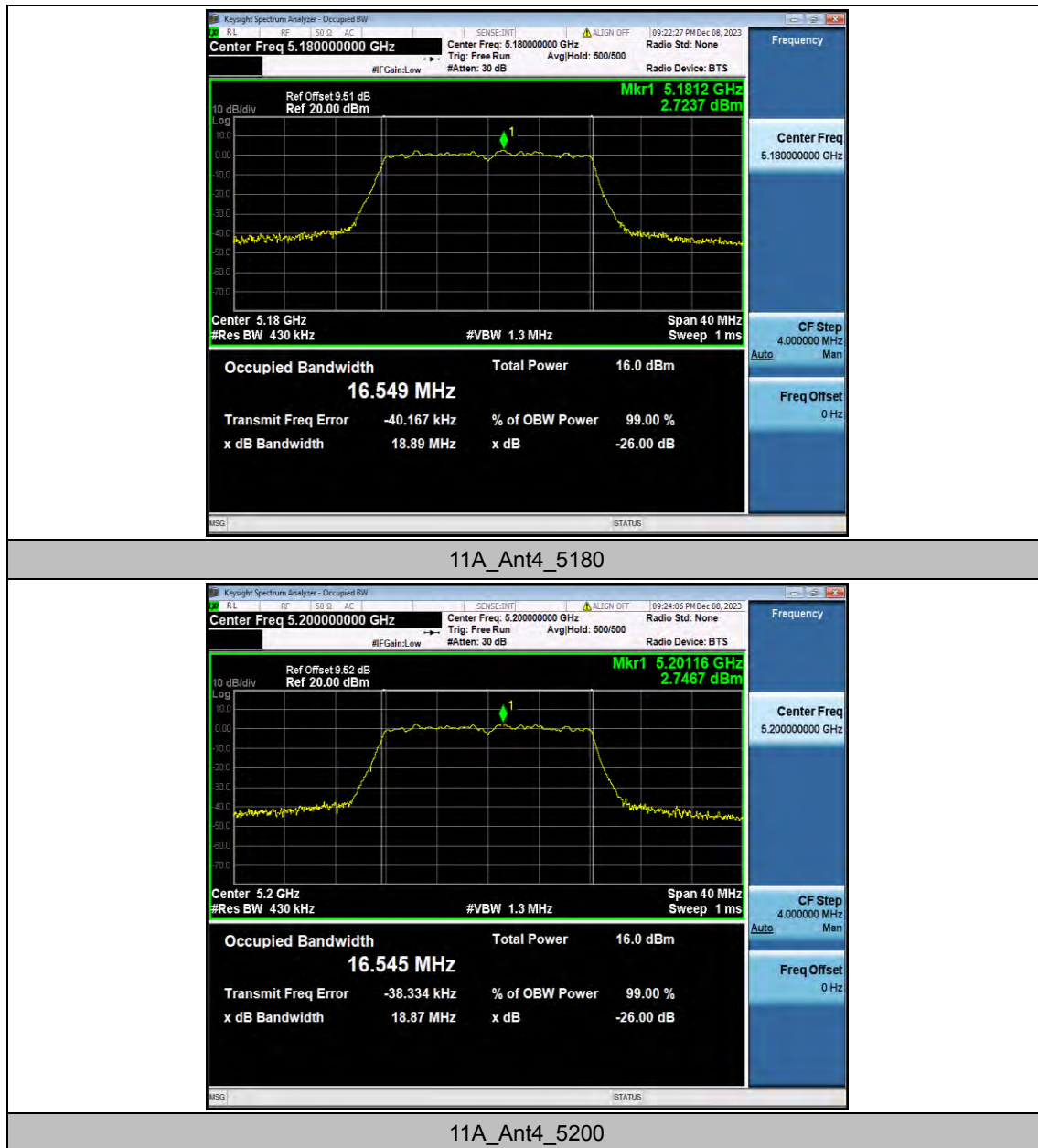
11AC80SISO_Ant4_5210

Appendix D.2: Occupied channel bandwidth

Test Result

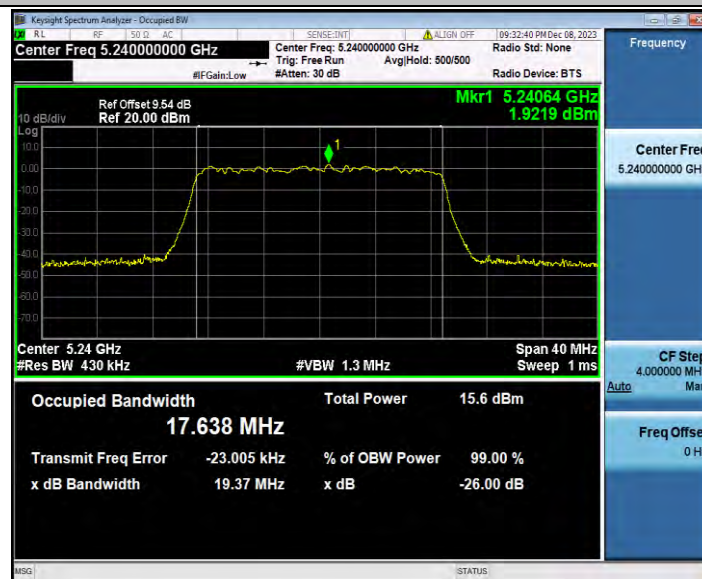
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant4	5180	16.549	5171.685	5188.234	---	---
		5200	16.545	5191.689	5208.234	---	---
		5240	16.545	5231.683	5248.228	---	---
11N20SISO	Ant4	5180	17.634	5171.160	5188.794	---	---
		5200	17.633	5191.163	5208.796	---	---
		5240	17.638	5231.158	5248.796	---	---
11N40SISO	Ant4	5190	36.254	5171.817	5208.071	---	---
		5230	36.263	5211.791	5248.054	---	---
11AC20SISO	Ant4	5180	17.718	5171.102	5188.820	---	---
		5200	17.710	5191.107	5208.817	---	---
		5240	17.717	5231.100	5248.817	---	---
11AC40SISO	Ant4	5190	36.256	5171.833	5208.089	---	---
		5230	36.266	5211.814	5248.080	---	---
11AC80SISO	Ant4	5210	77.122	5171.537	5248.659	---	---

Test Graphs

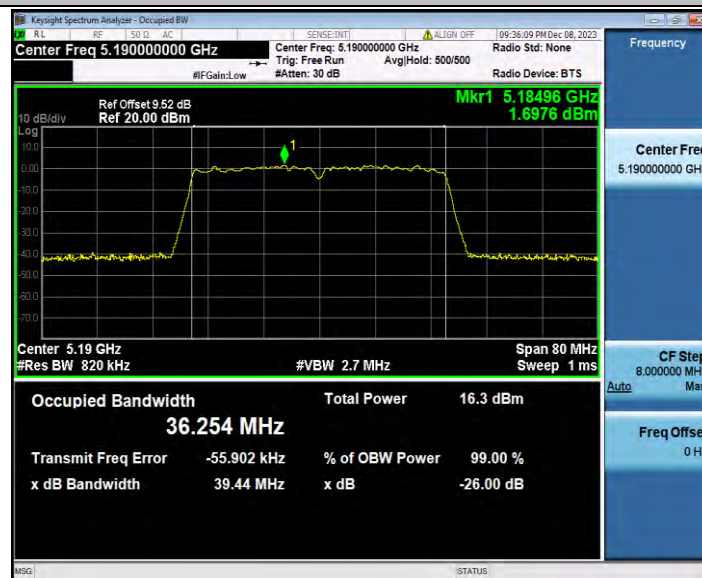




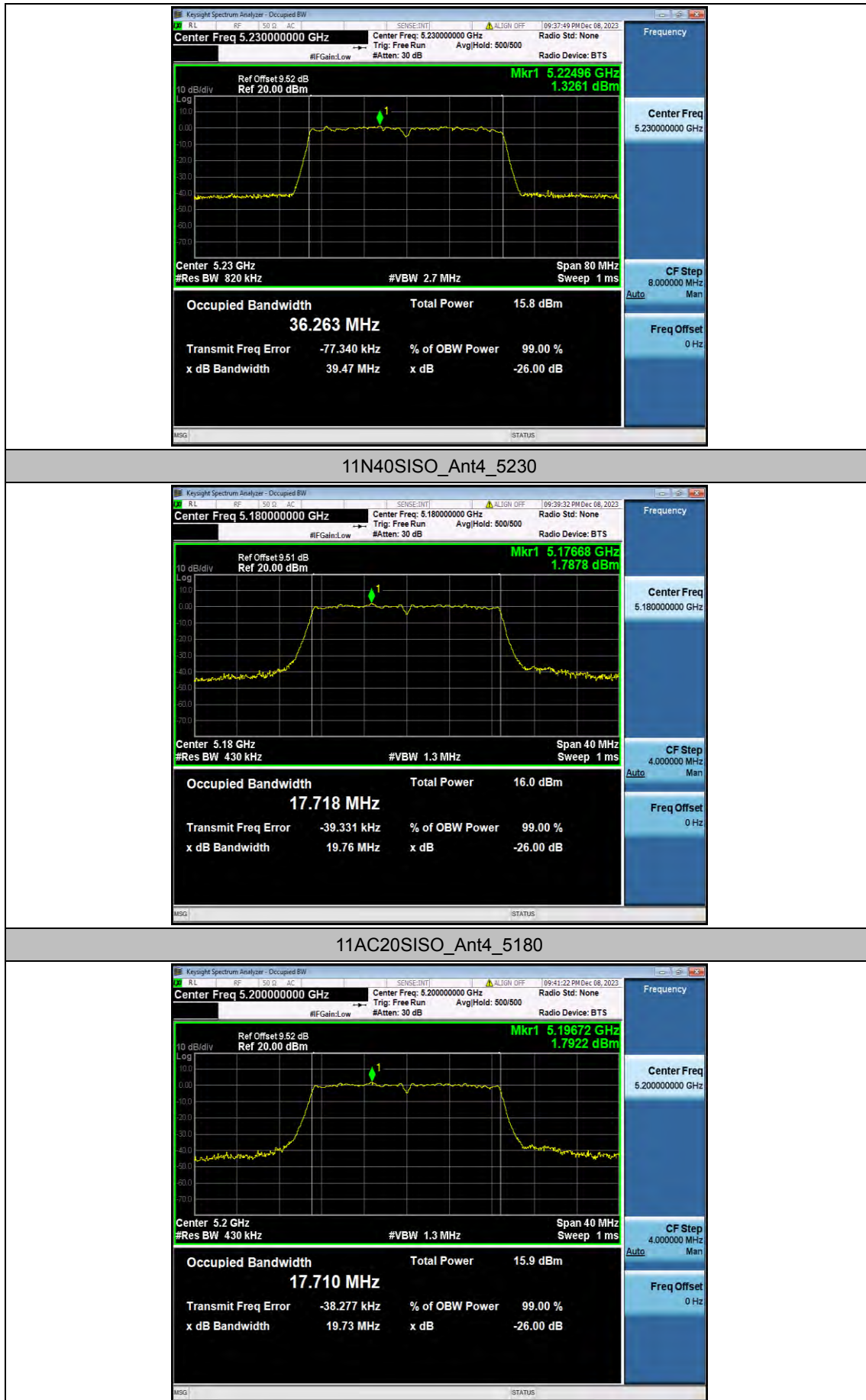
11N20SISO_Ant4_5200



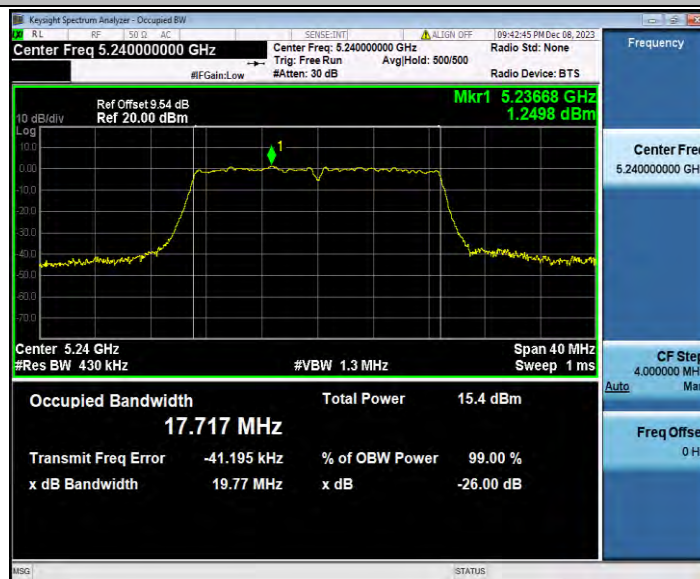
11N20SISO_Ant4_5240



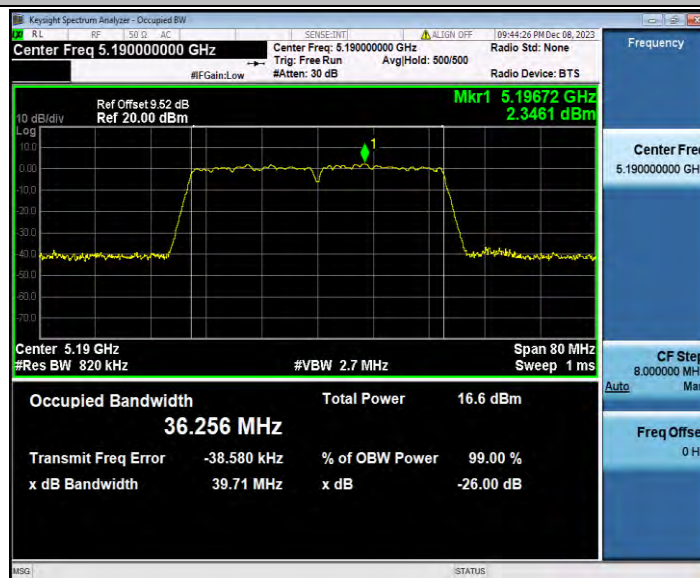
11N40SISO_Ant4_5190



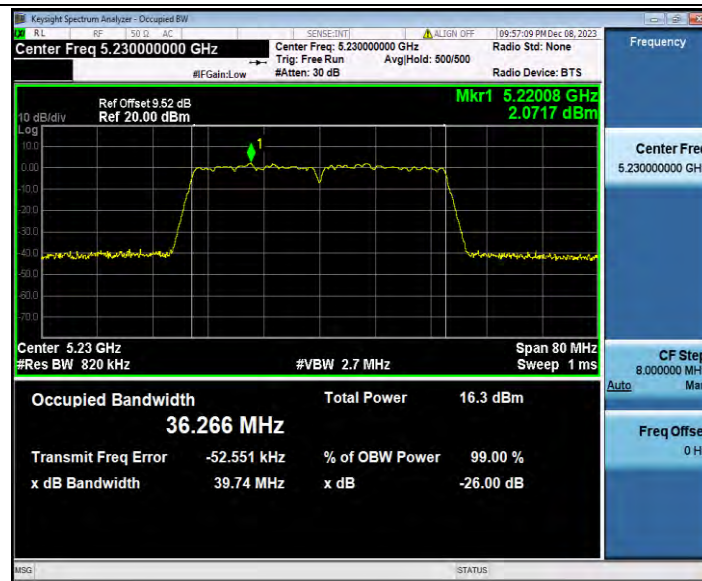
11AC20SISO_Ant4_5200



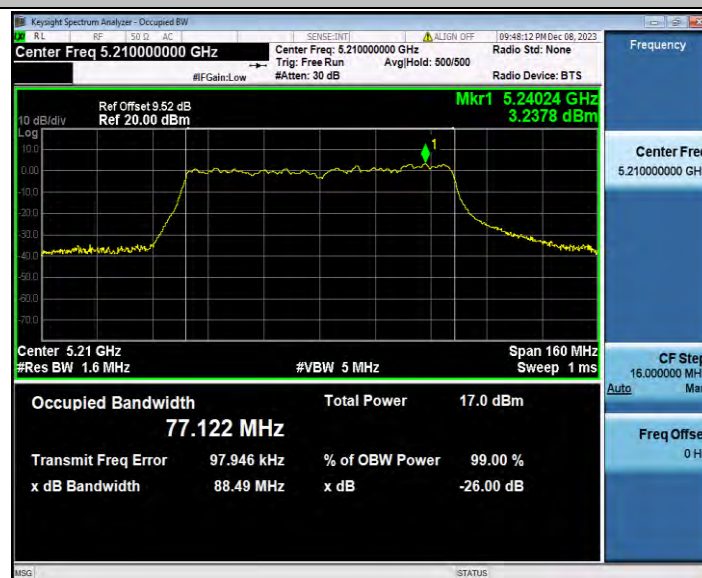
11AC20SISO_Ant4_5240



11AC40SISO_Ant4_5190



11AC40SISO_Ant4_5230



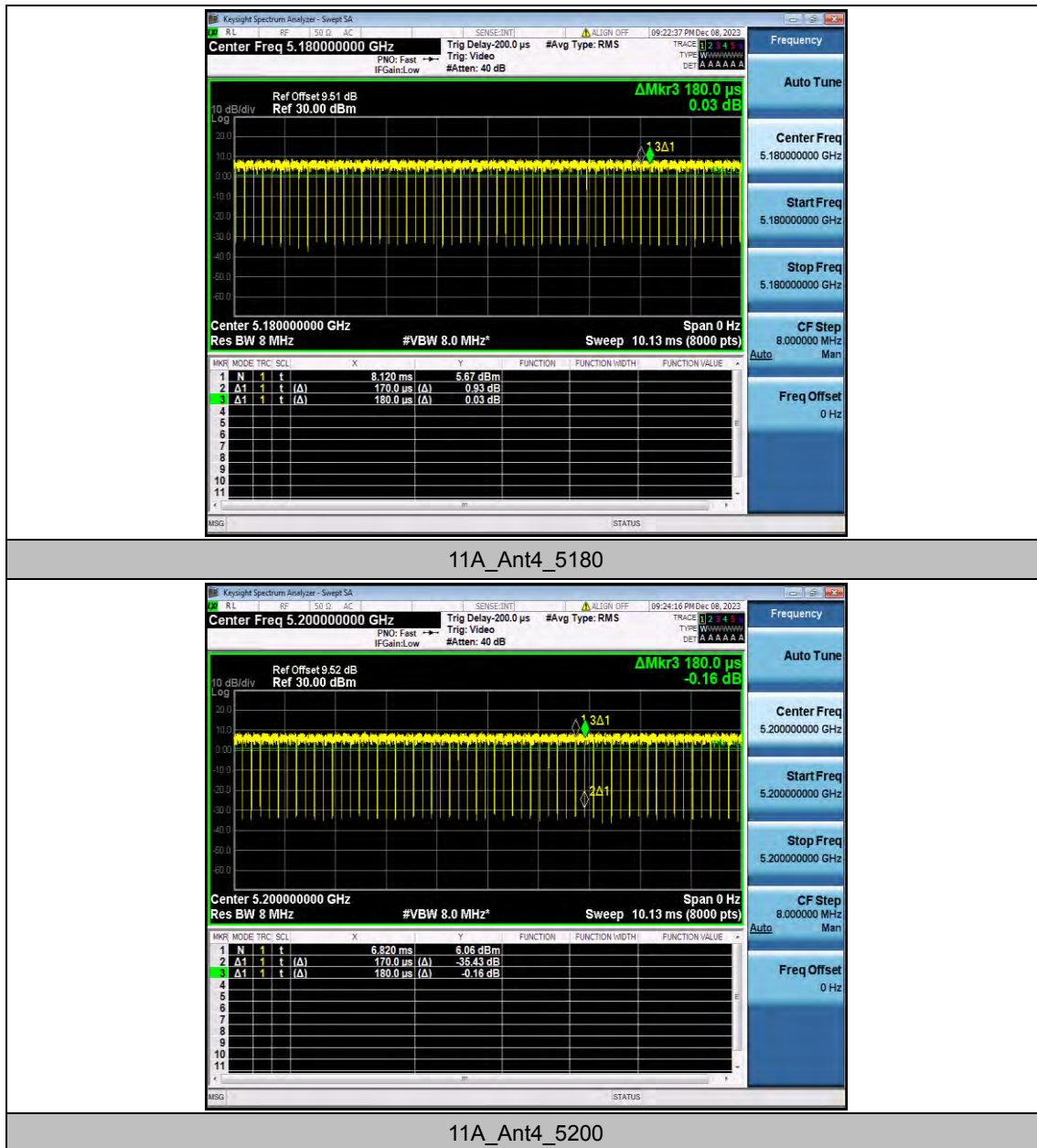
11AC80SISO_Ant4_5210

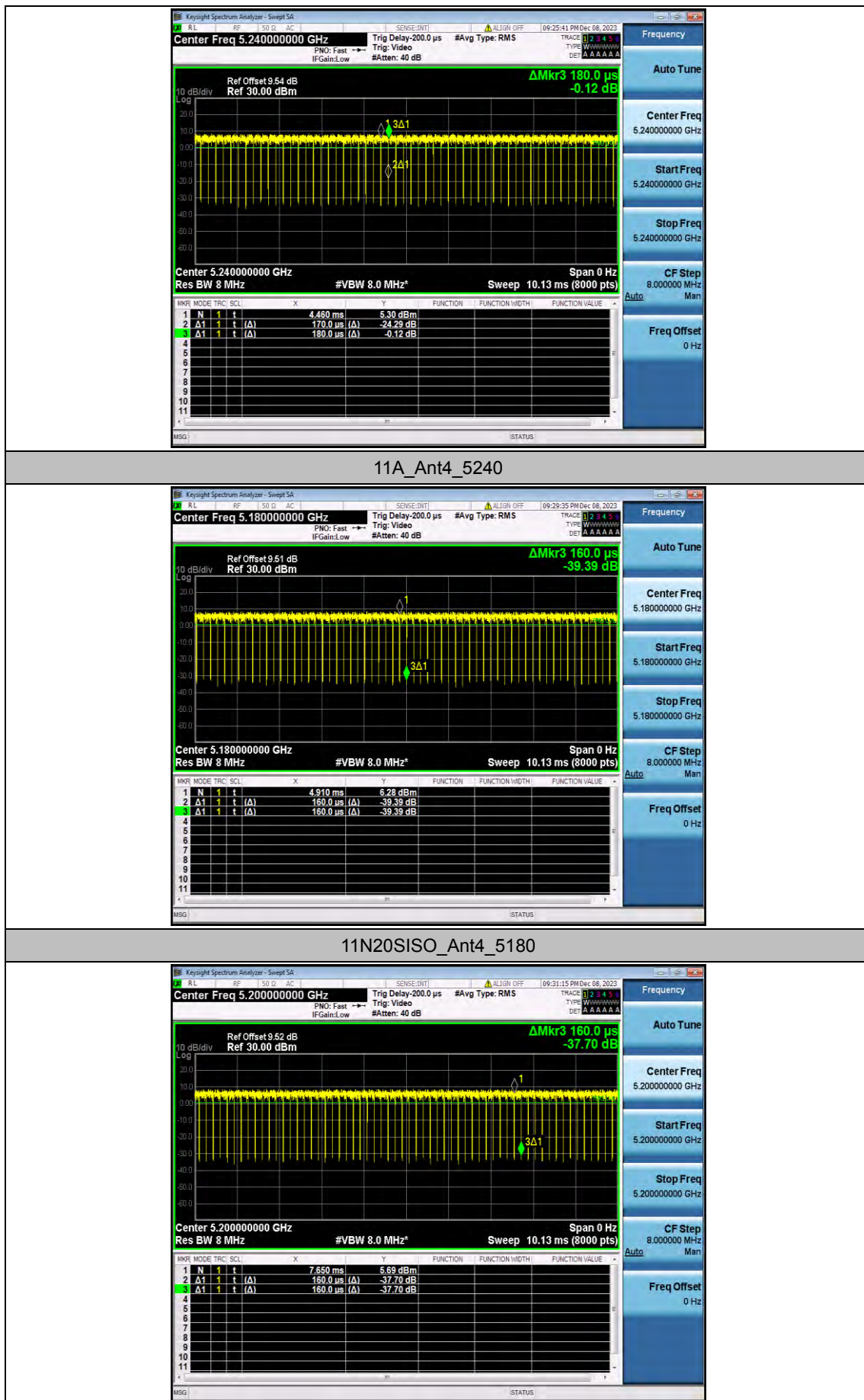
Appendix D.3: Duty Cycle

Test Result

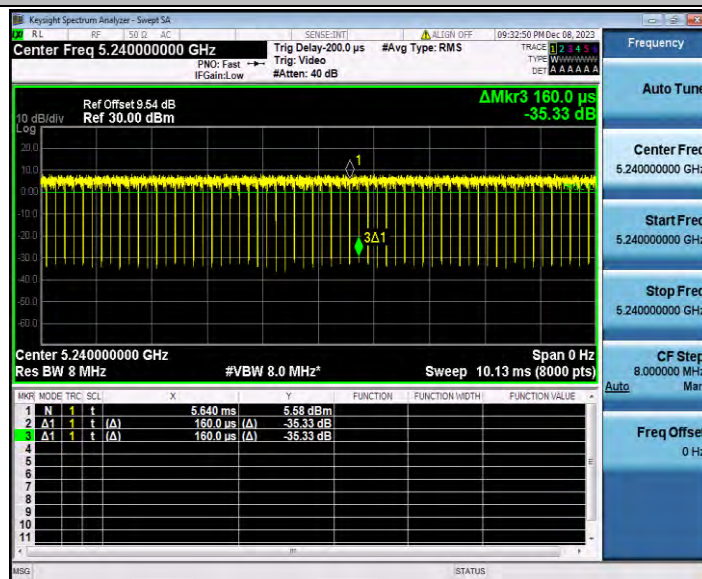
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant4	5180	0.17	0.18	94.44
		5200	0.17	0.18	94.44
		5240	0.17	0.18	94.44
11N20SISO	Ant4	5180	0.16	0.16	100.00
		5200	0.16	0.16	100.00
		5240	0.16	0.16	100.00
11N40SISO	Ant4	5190	0.09	0.10	90.00
		5230	0.09	0.10	90.00
11AC20SISO	Ant4	5180	0.14	0.15	93.33
		5200	0.14	0.15	93.33
		5240	0.14	0.15	93.33
11AC40SISO	Ant4	5190	0.09	0.10	90.00
		5230	0.09	0.10	90.00
11AC80SISO	Ant4	5210	0.06	0.07	85.71

Test Graphs

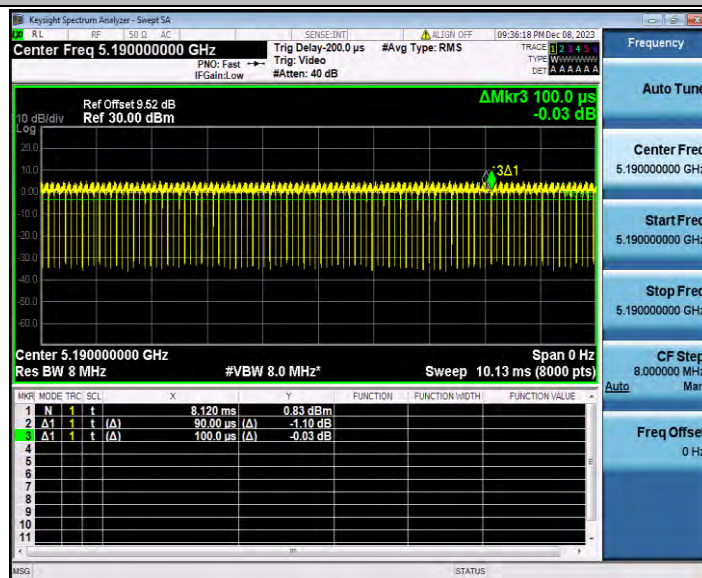




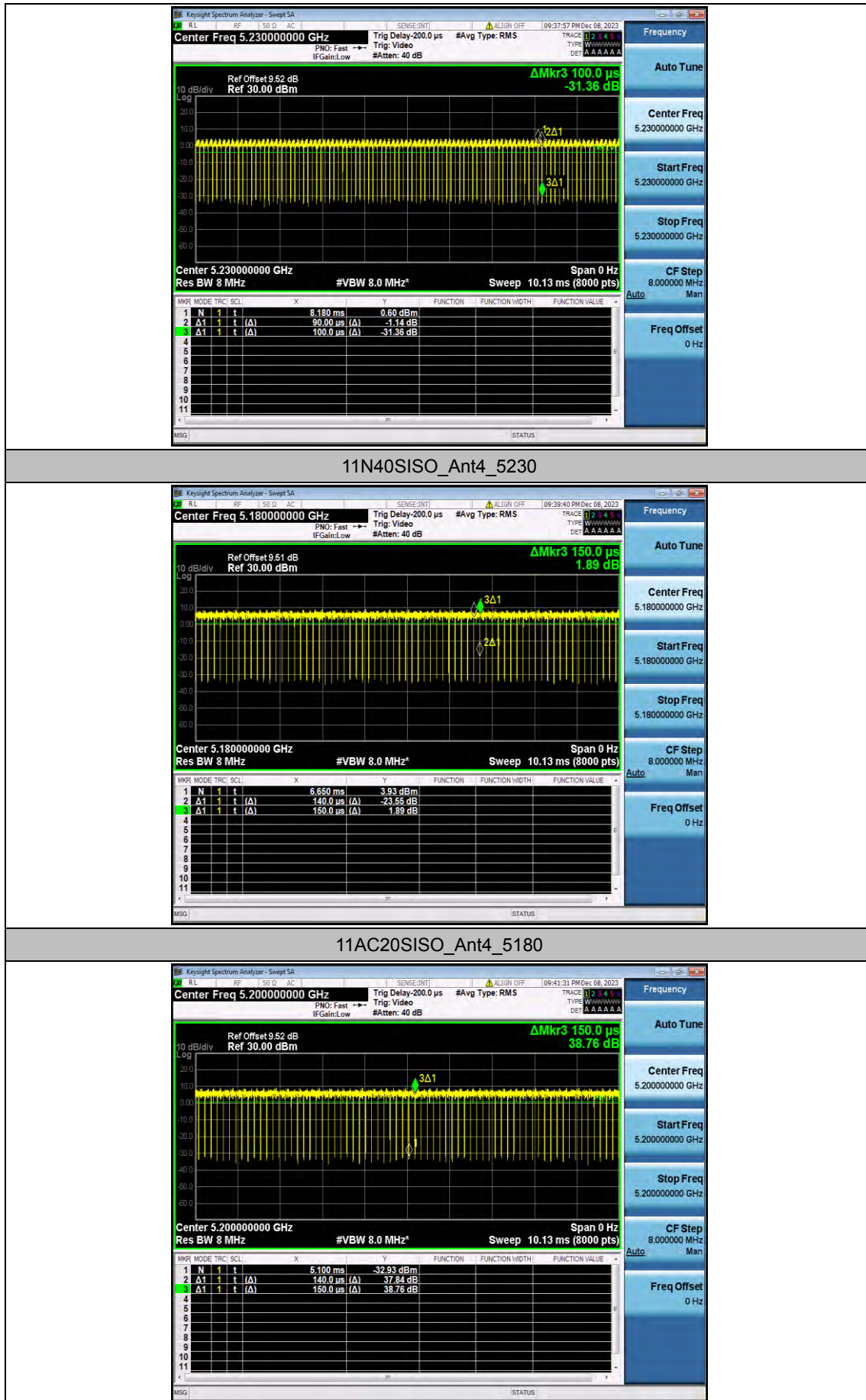
11N20SISO_Ant4_5200



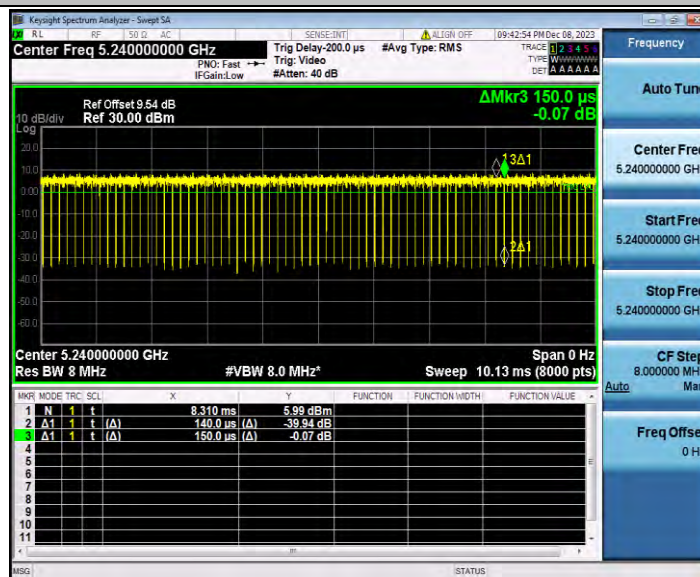
11N20SISO_Ant4_5240



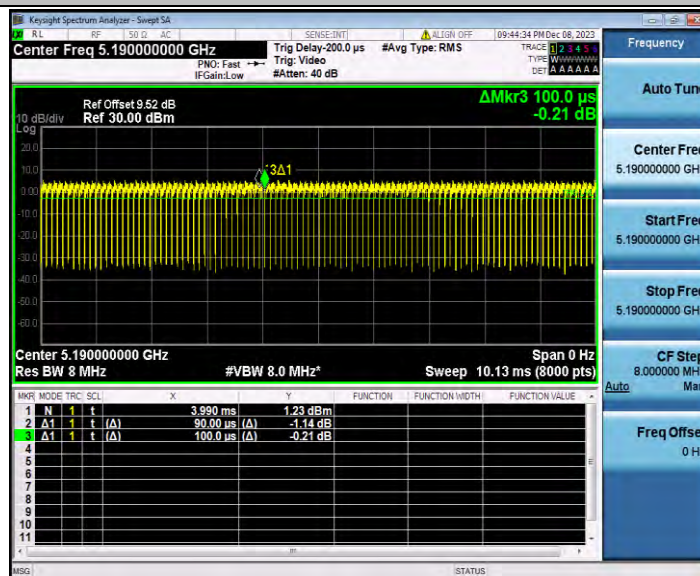
11N40SISO_Ant4_5190



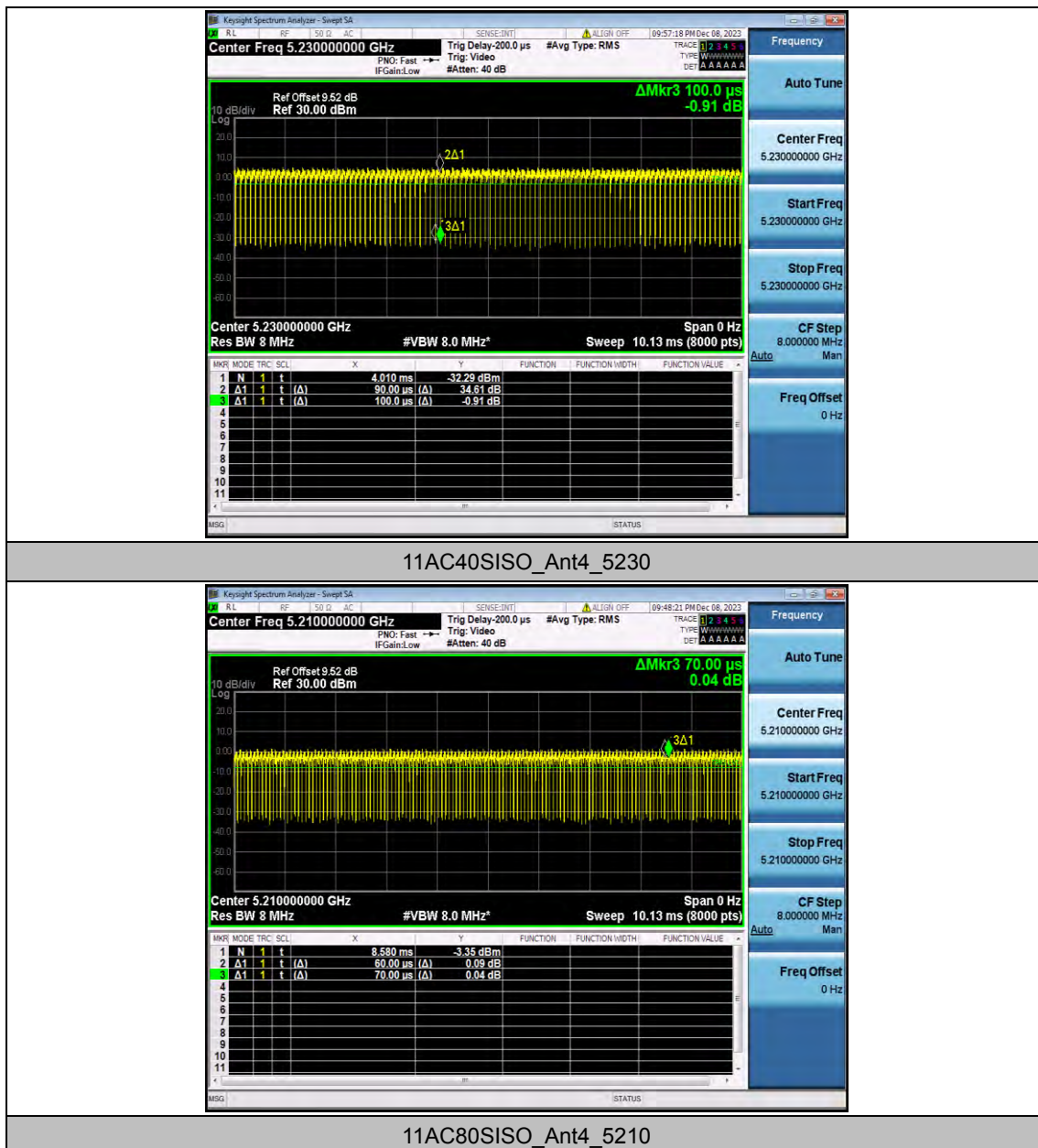
11AC20SISO_Ant4_5200



11AC20SISO_Ant4_5240



11AC40SISO_Ant4_5190



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant4	5180	9.00	94.44	0.25	9.25	≤23.98	PASS
		5200	9.03	94.44	0.25	9.28	≤23.98	PASS
		5240	8.54	94.44	0.25	8.79	≤23.98	PASS
11N20SISO	Ant4	5180	9.15	100.00	0.00	9.15	≤23.98	PASS
		5200	9.22	100.00	0.00	9.22	≤23.98	PASS
		5240	8.56	100.00	0.00	8.56	≤23.98	PASS
11N40SISO	Ant4	5190	9.00	90.00	0.46	9.46	≤23.98	PASS
		5230	8.54	90.00	0.46	9.00	≤23.98	PASS
11AC20SISO	Ant4	5180	9.33	93.33	0.30	9.63	≤23.98	PASS
		5200	9.31	93.33	0.30	9.61	≤23.98	PASS
		5240	8.75	93.33	0.30	9.05	≤23.98	PASS
11AC40SISO	Ant4	5190	9.07	90.00	0.46	9.53	≤23.98	PASS
		5230	8.69	90.00	0.46	9.15	≤23.98	PASS
11AC80SISO	Ant4	5210	8.78	85.71	0.67	9.45	≤23.98	PASS

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

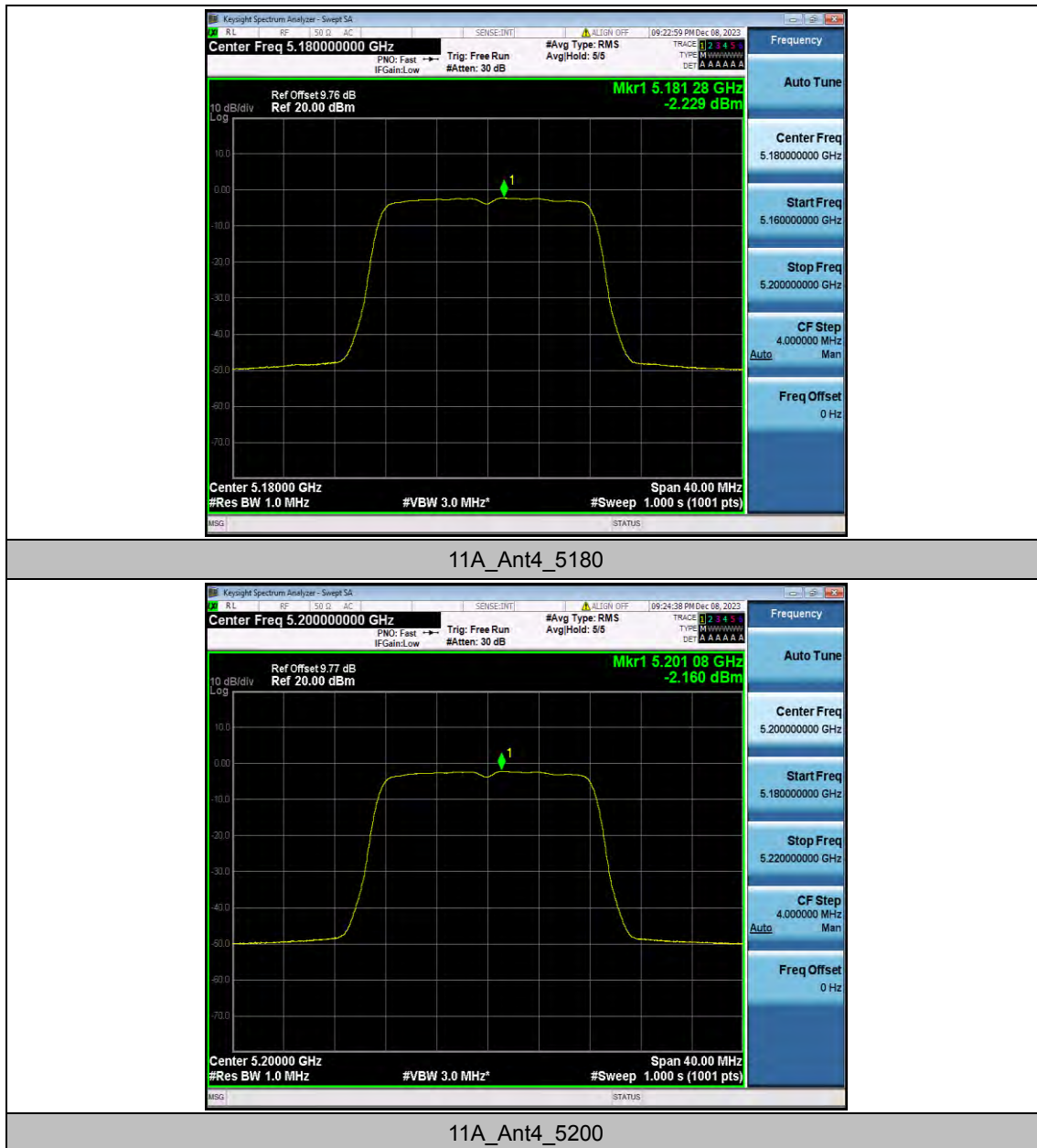
Appendix D.5: Maximum power spectral density

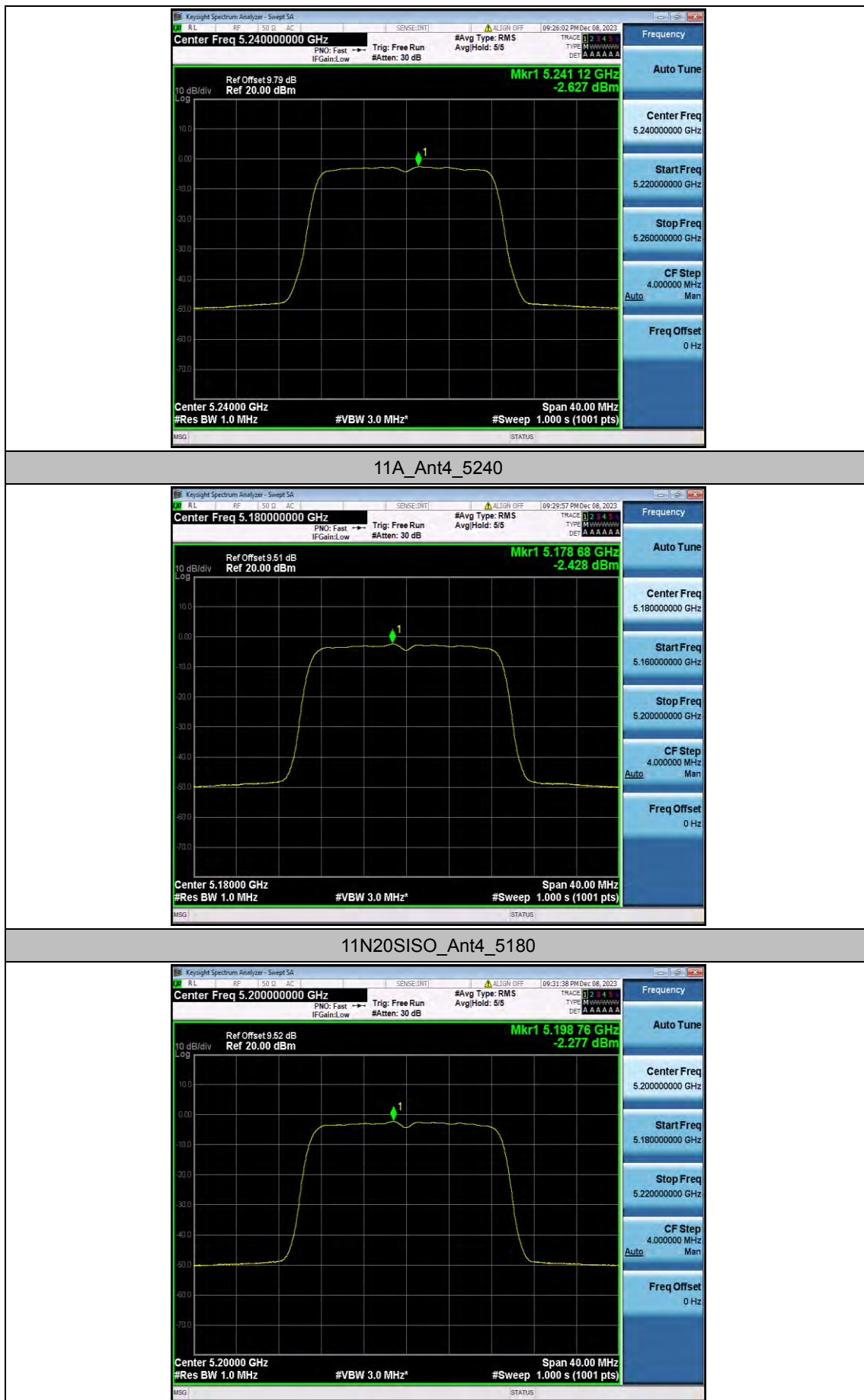
Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant4	5180	-2.23	≤ 11.00	PASS
		5200	-2.16	≤ 11.00	PASS
		5240	-2.63	≤ 11.00	PASS
11N20SISO	Ant4	5180	-2.43	≤ 11.00	PASS
		5200	-2.28	≤ 11.00	PASS
		5240	-2.9	≤ 11.00	PASS
11N40SISO	Ant4	5190	-4.93	≤ 11.00	PASS
		5230	-5.55	≤ 11.00	PASS
11AC20SISO	Ant4	5180	-1.95	≤ 11.00	PASS
		5200	-1.93	≤ 11.00	PASS
		5240	-2.41	≤ 11.00	PASS
11AC40SISO	Ant4	5190	-4.67	≤ 11.00	PASS
		5230	-4.87	≤ 11.00	PASS
11AC80SISO	Ant4	5210	-6.7	≤ 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





11N20SISO_Ant4_5200



11N20SISO_Ant4_5240



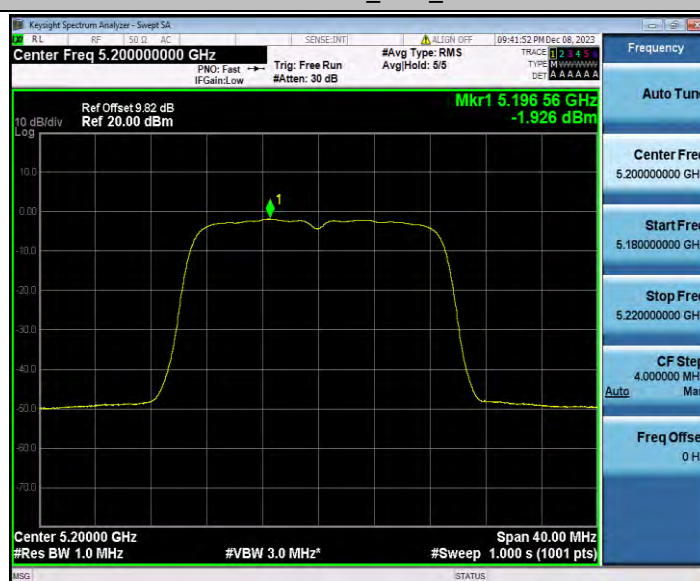
11N40SISO_Ant4_5190



11N40SISO_Ant4_5230



11AC20SISO_Ant4_5180



11AC20SISO_Ant4_5200



11AC20SISO_Ant4_5240



11AC40SISO_Ant4_5190



11AC40SISO_Ant4_5230



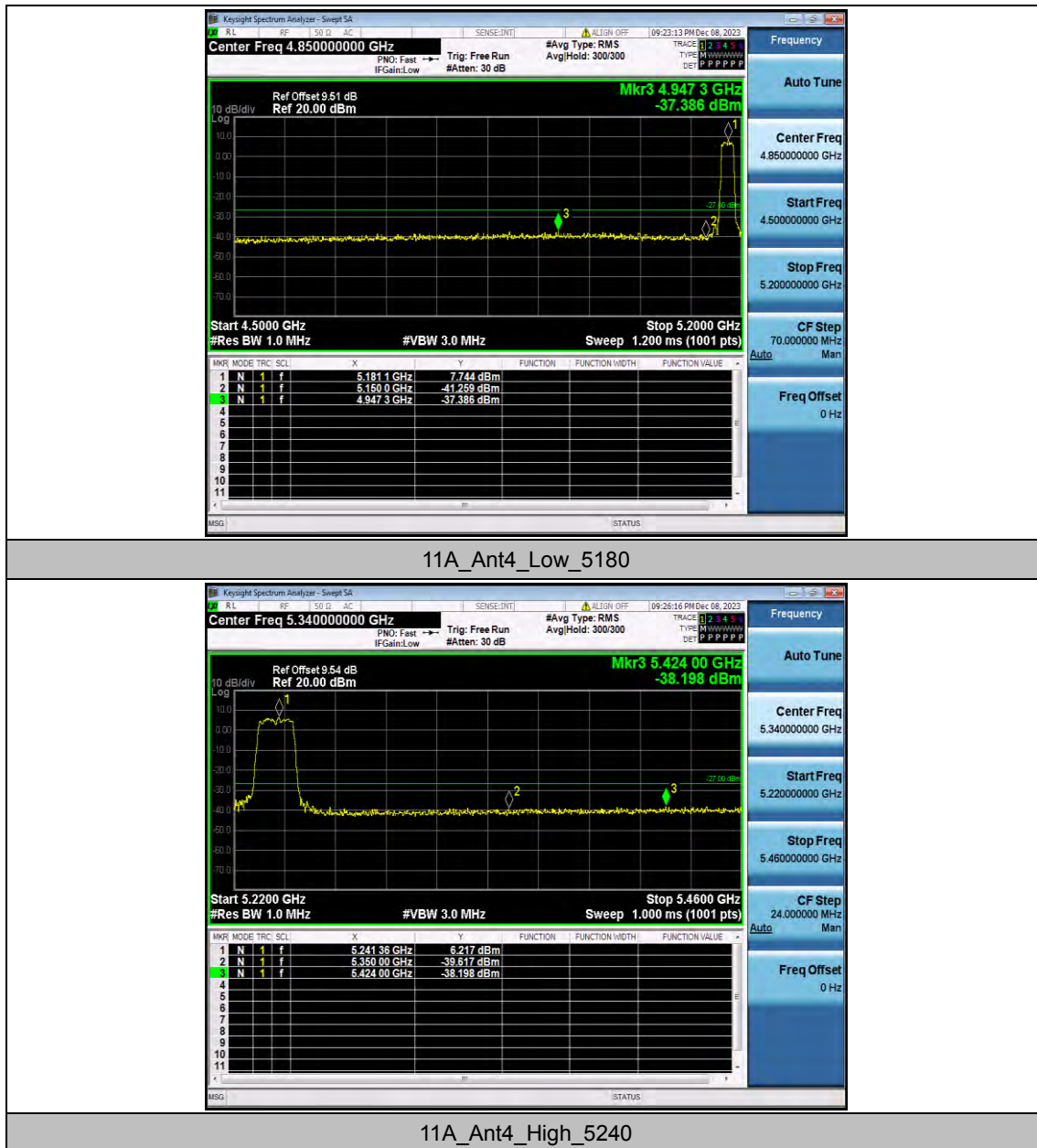
11AC80SISO_Ant4_5210

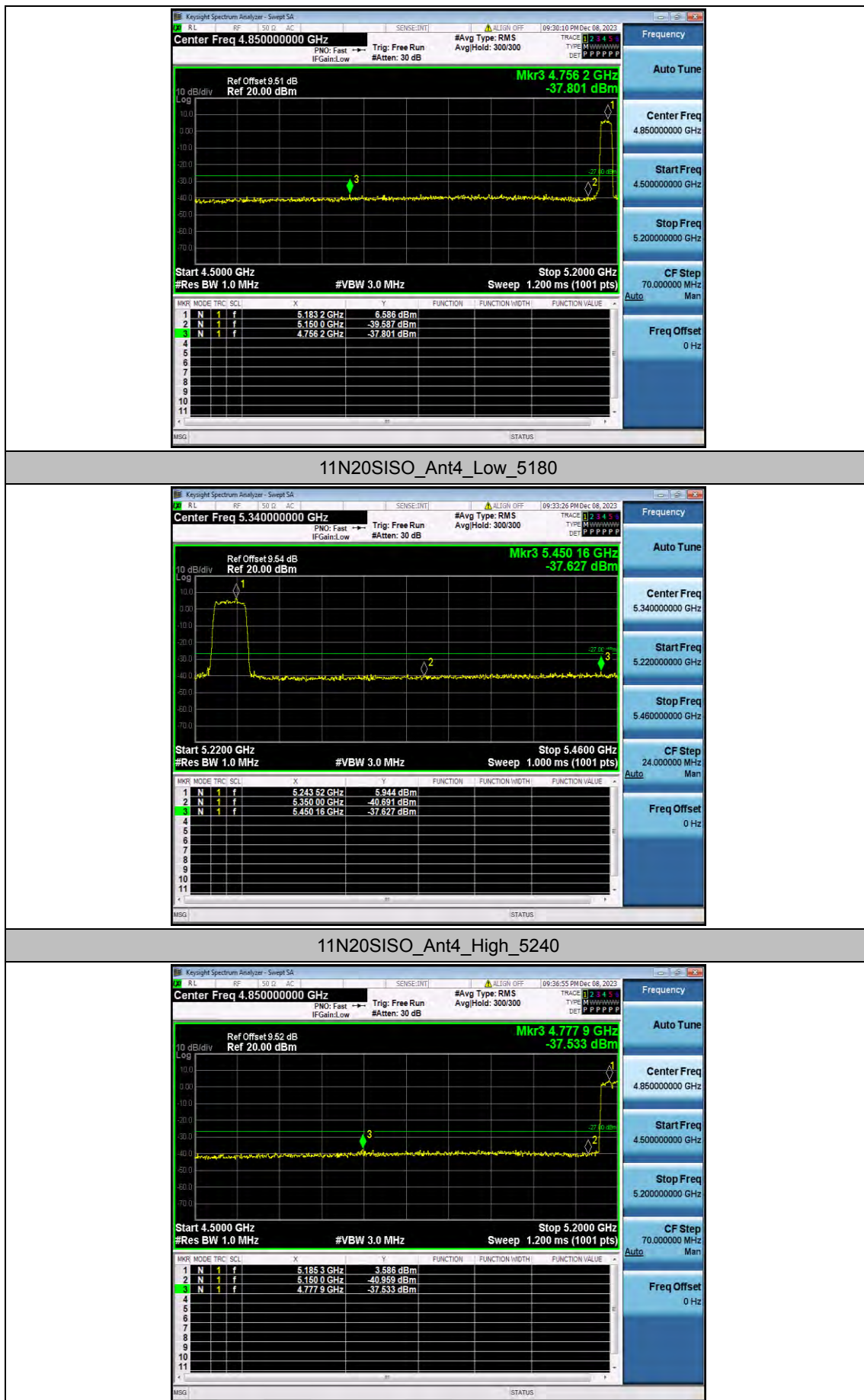
Appendix D.6: Band edge measurements

Test Result B1

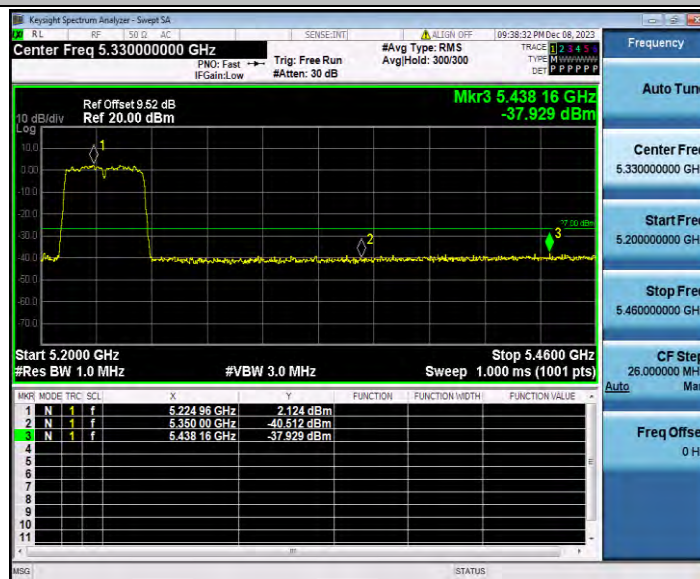
Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant4	Low	5180	-37.39	≤ -27	PASS
		High	5240	-38.2	≤ -27	PASS
11N20SISO	Ant4	Low	5180	-37.8	≤ -27	PASS
		High	5240	-37.63	≤ -27	PASS
11N40SISO	Ant4	Low	5190	-37.53	≤ -27	PASS
		High	5230	-37.93	≤ -27	PASS
11AC20SISO	Ant4	Low	5180	-37.88	≤ -27	PASS
		High	5240	-38	≤ -27	PASS
11AC40SISO	Ant4	Low	5190	-37.33	≤ -27	PASS
		High	5230	-38.18	≤ -27	PASS
11AC80SISO	Ant4	Low	5210	-37.38	≤ -27	PASS
		High	5210	-38.31	≤ -27	PASS

Test Graphs B1

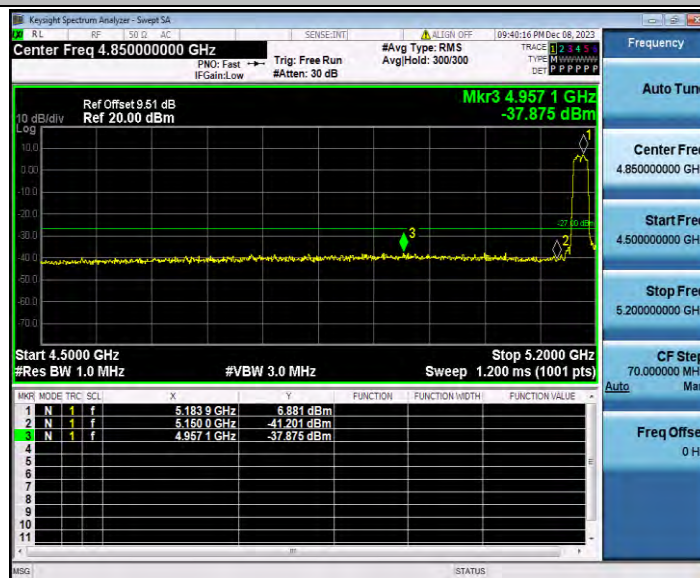




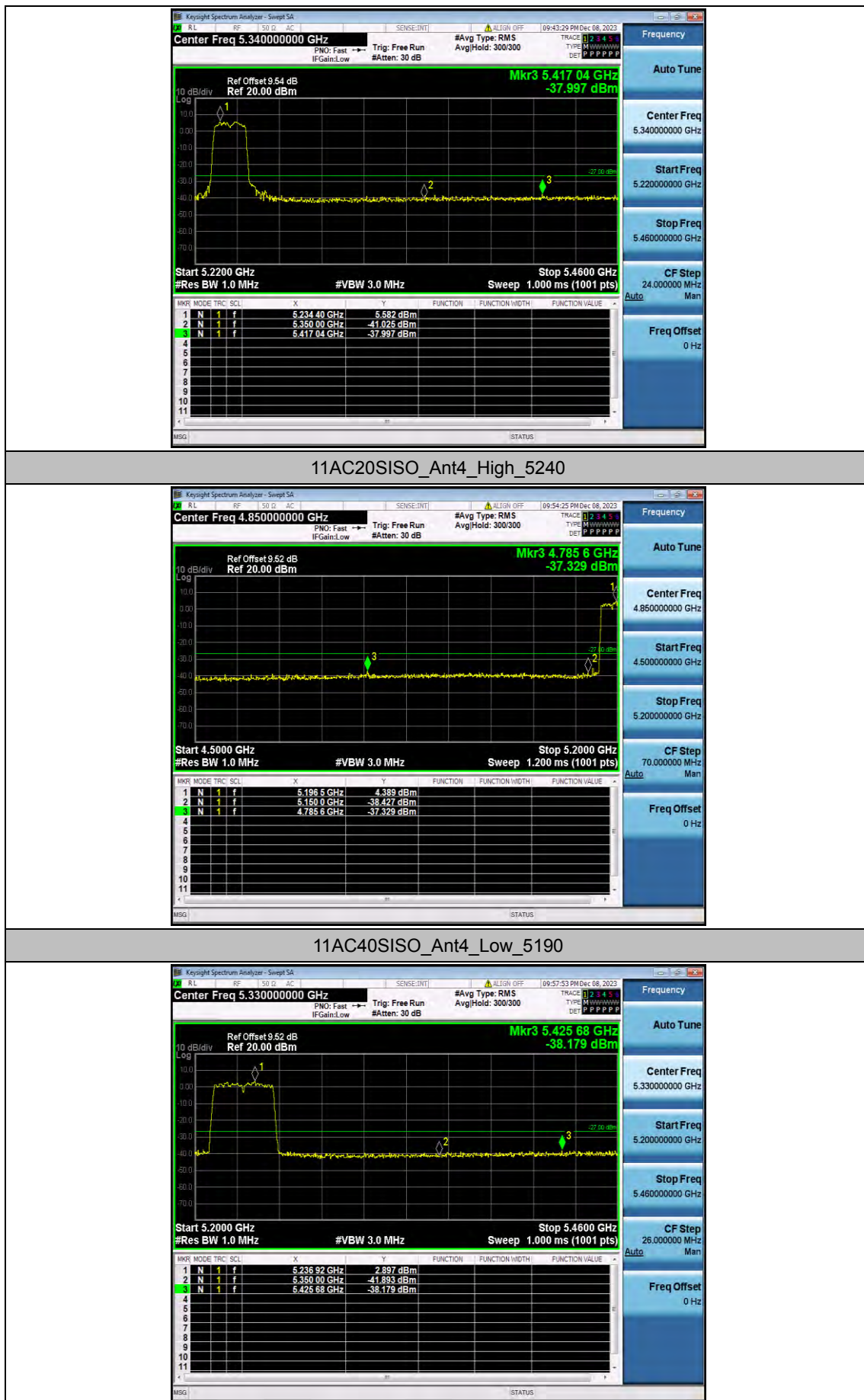
11N40SISO_Ant4_Low_5190



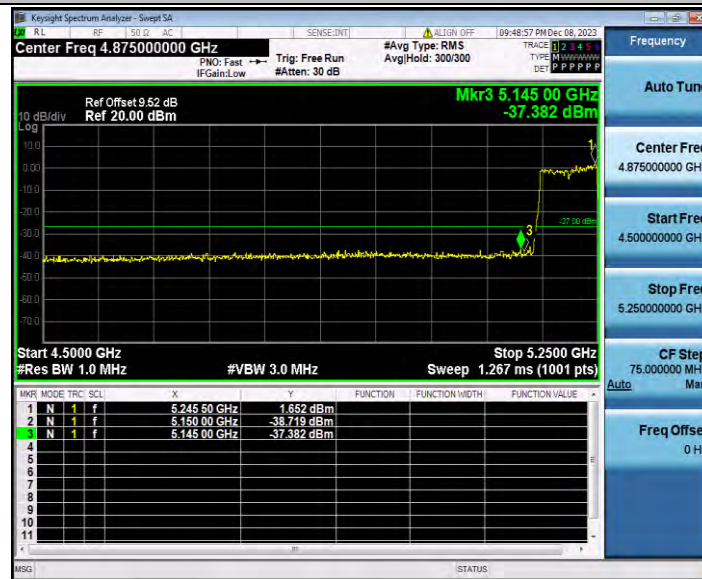
11N40SISO_Ant4_High_5230



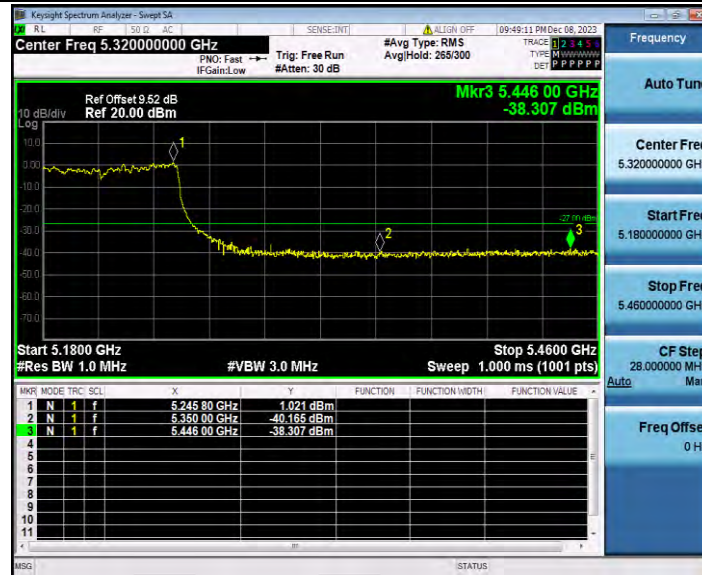
11AC20SISO_Ant4_Low_5180



11AC40SISO_Ant4_High_5230



11AC80SISO_Ant4_Low_5210



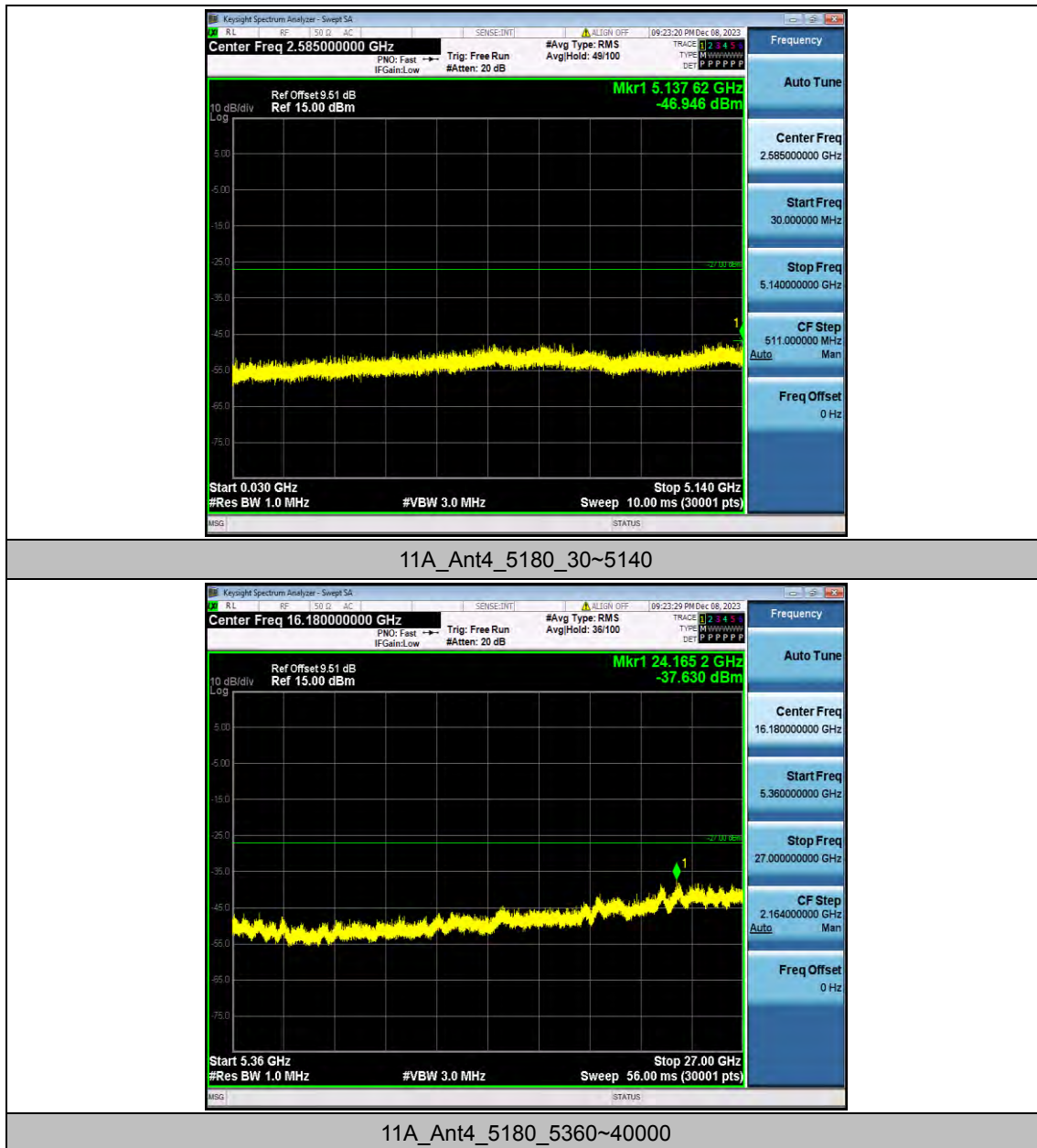
11AC80SISO_Ant4_High_5210

Appendix D.7: Conducted Spurious Emission

Test Result

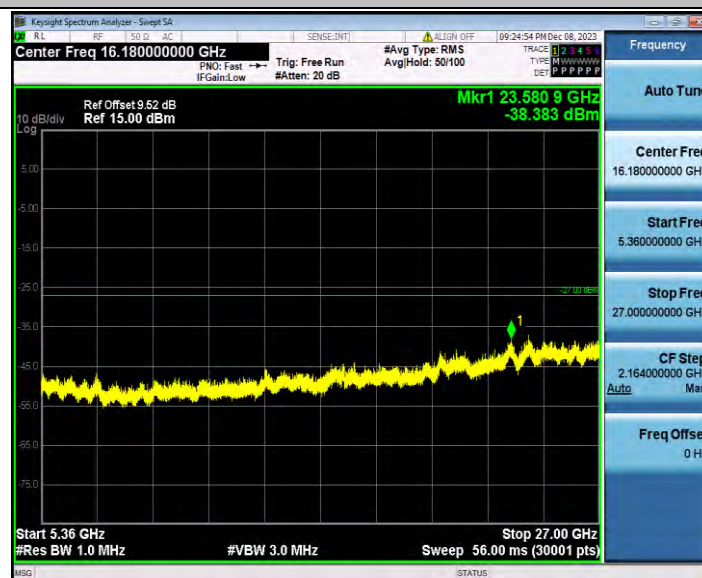
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant4	5180	30~5140	5137.62	-46.95	≤-27	PASS
			5360~40000	24165.16	-37.63	≤-27	PASS
		5200	30~5140	5013.95	-47.55	≤-27	PASS
			5360~40000	23580.88	-38.38	≤-27	PASS
		5240	30~5140	4935.43	-46.86	≤-27	PASS
			5360~40000	24250.28	-37.97	≤-27	PASS
11N20SISO	Ant4	5180	30~5140	4974.95	-46.85	≤-27	PASS
			5360~40000	25206.04	-38	≤-27	PASS
		5200	30~5140	3240.44	-47.38	≤-27	PASS
			5360~40000	26756.91	-37.69	≤-27	PASS
		5240	30~5140	5021.79	-47.29	≤-27	PASS
			5360~40000	24287.79	-37.23	≤-27	PASS
11N40SISO	Ant4	5190	30~5140	4962.34	-46.12	≤-27	PASS
			5360~40000	24210.6	-37.3	≤-27	PASS
		5230	30~5140	3301.59	-46.98	≤-27	PASS
			5360~40000	24261.82	-37.97	≤-27	PASS
11AC20SISO	Ant4	5180	30~5140	3068.07	-46.87	≤-27	PASS
			5360~40000	25967.05	-38.44	≤-27	PASS
		5200	30~5140	2647	-46.86	≤-27	PASS
			5360~40000	24186.8	-37.84	≤-27	PASS
		5240	30~5140	4964.56	-46.97	≤-27	PASS
			5360~40000	26042.79	-38.01	≤-27	PASS
11AC40SISO	Ant4	5190	30~5140	5135.4	-46.84	≤-27	PASS
			5360~40000	25072.6	-36.99	≤-27	PASS
		5230	30~5140	4799.84	-46.69	≤-27	PASS
			5360~40000	24264.7	-37.72	≤-27	PASS
11AC80SISO	Ant4	5210	30~5140	5120.75	-41.9	≤-27	PASS
			5360~40000	24953.58	-38.01	≤-27	PASS

Test Graphs

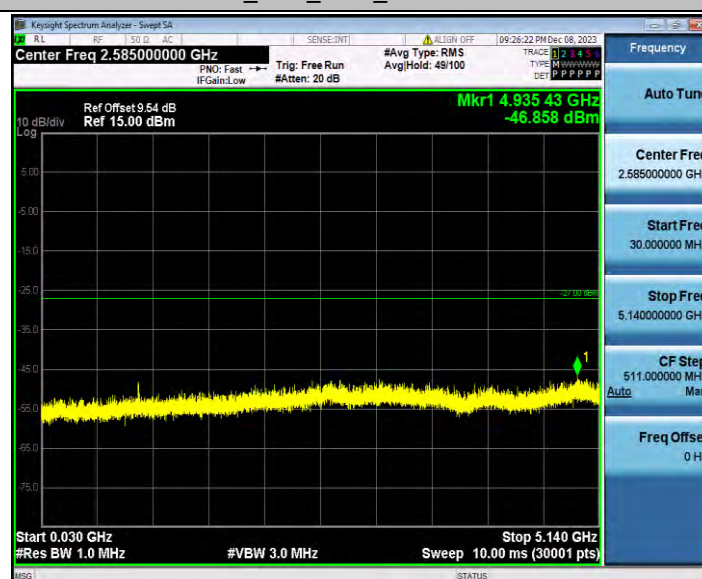




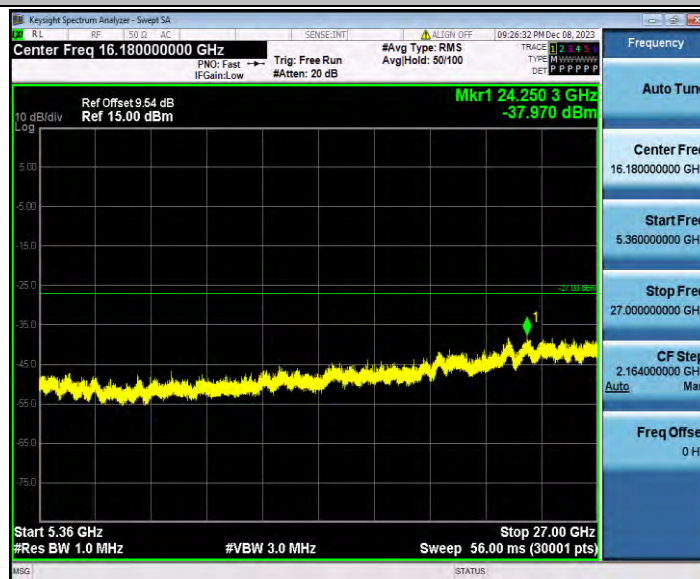
11A_Ant4_5200_30~5140



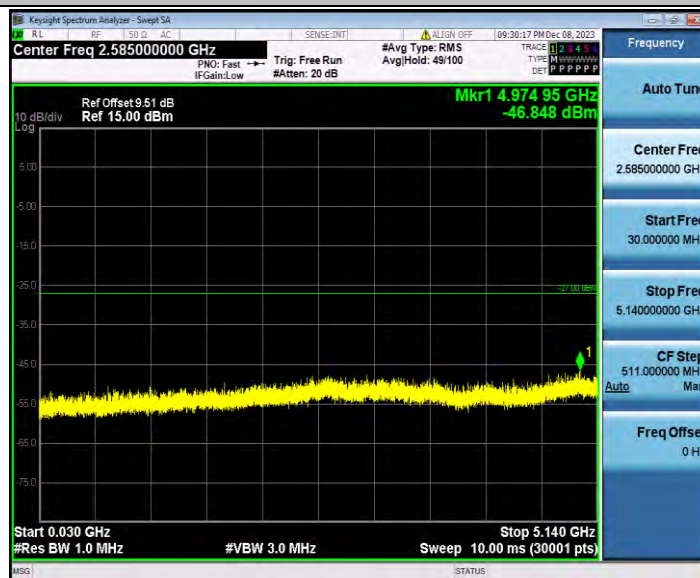
11A_Ant4_5200_5360~40000



11A_Ant4_5240_30~5140



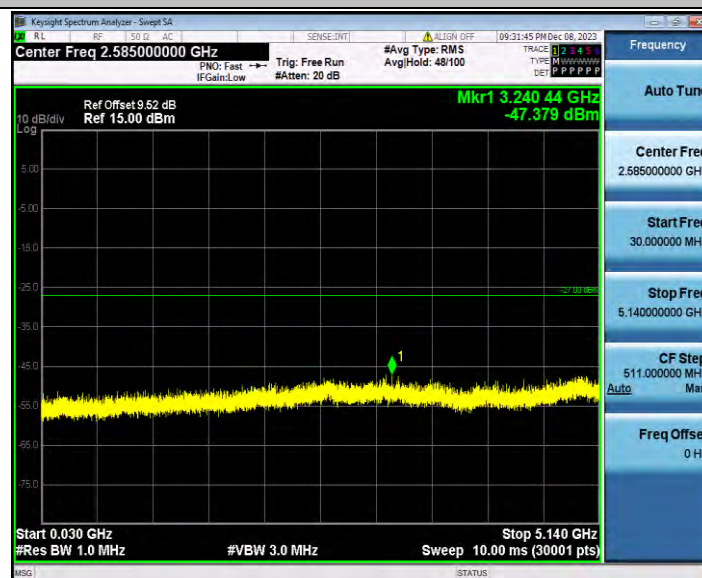
11A_Ant4_5240_5360~40000



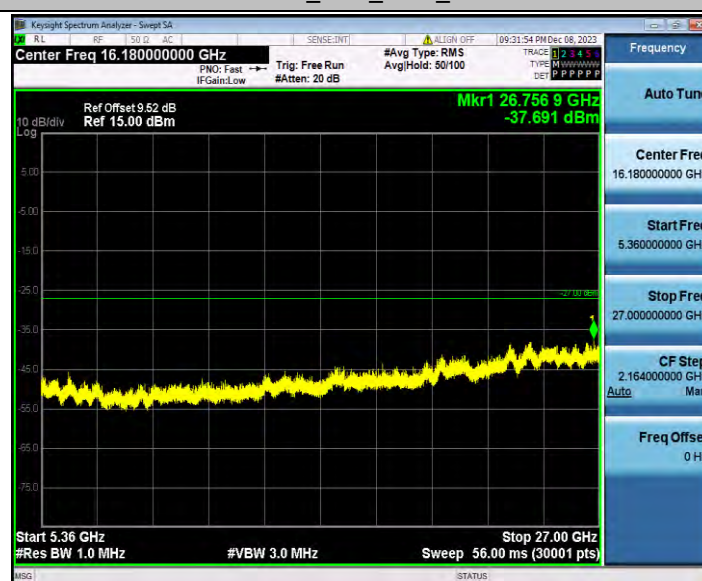
11N20SISO_Ant4_5180_30~5140



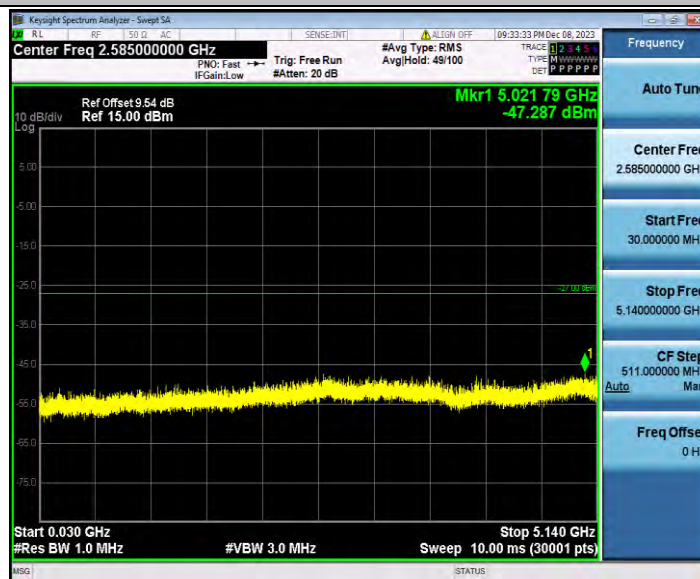
11N20SISO_Ant4_5180_5360~40000



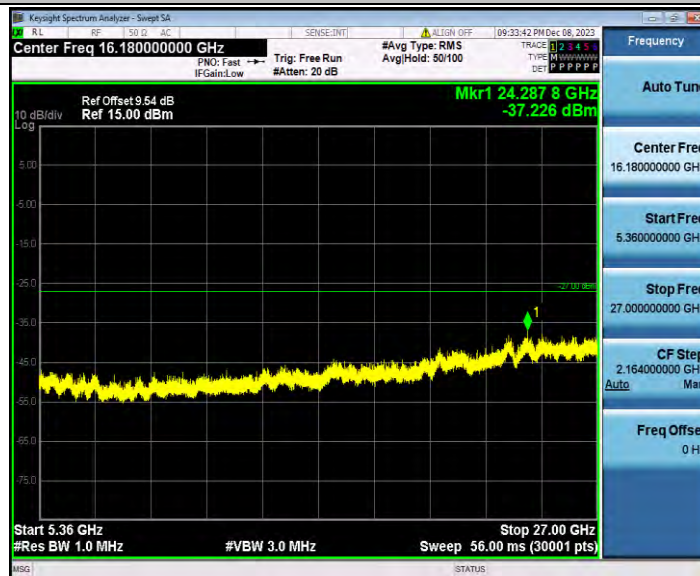
11N20SISO_Ant4_5200_30~5140



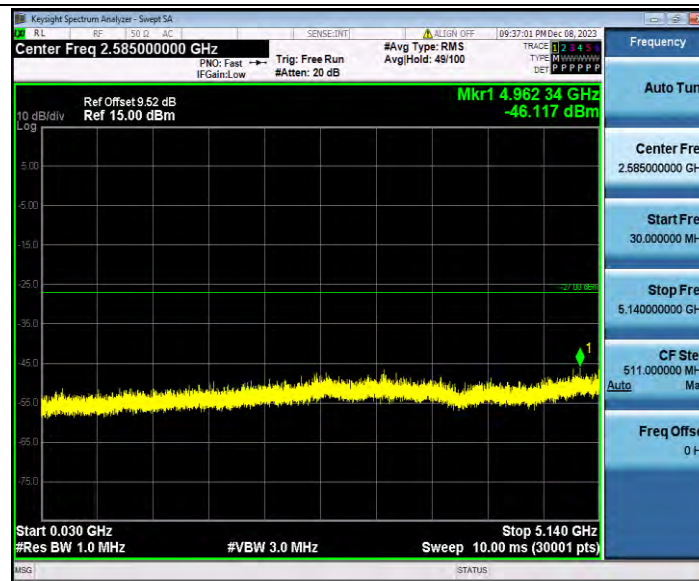
11N20SISO_Ant4_5200_5360~40000



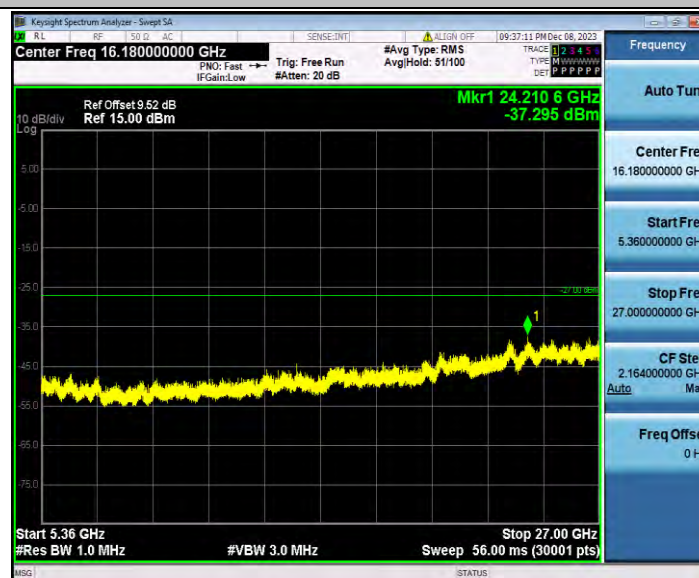
11N20SISO_Ant4_5240_30~5140



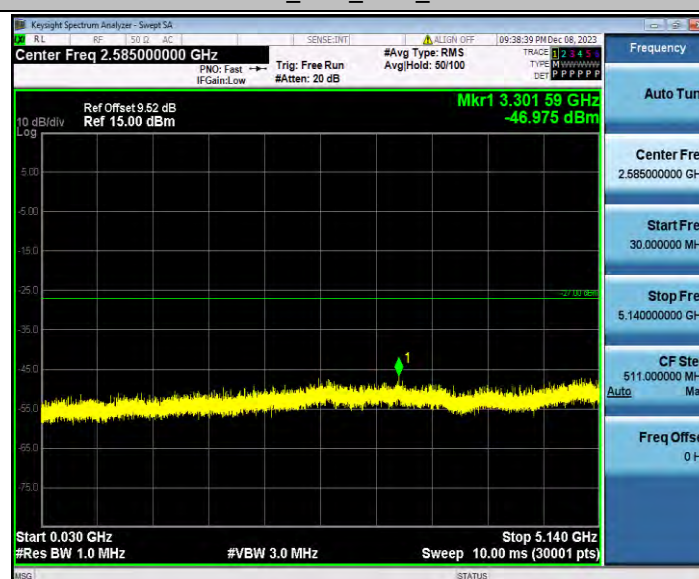
11N20SISO_Ant4_5240_5360~40000



11N40SISO_Ant4_5190_30~5140



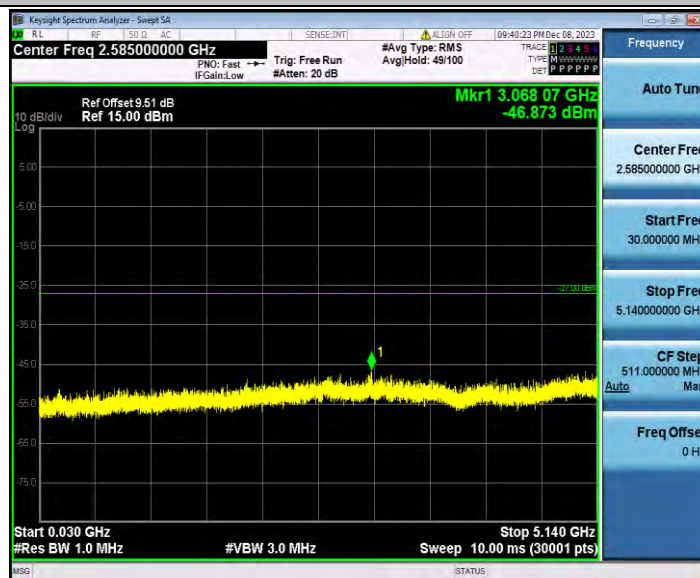
11N40SISO_Ant4_5190_5360~40000



11N40SISO_Ant4_5230_30~5140



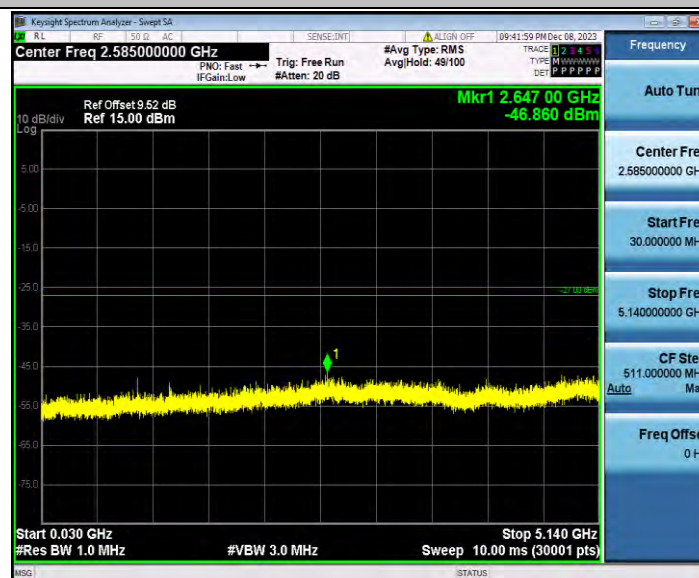
11N40SISO_Ant4_5230_5360~40000



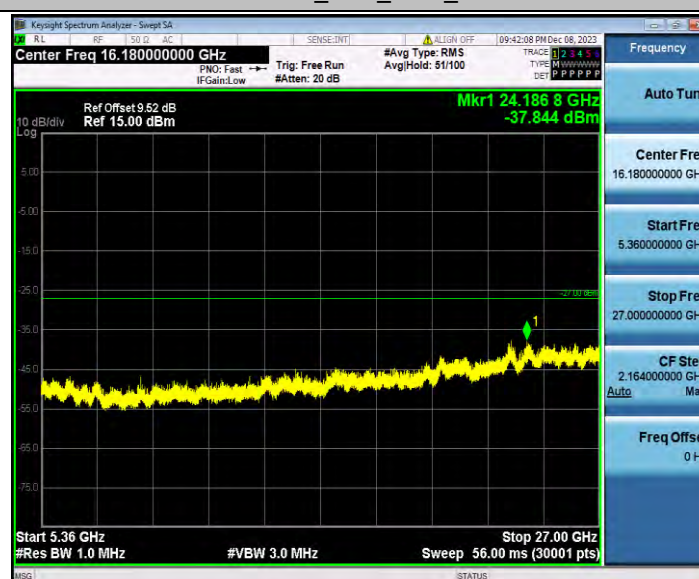
11AC20SISO_Ant4_5180_30~5140

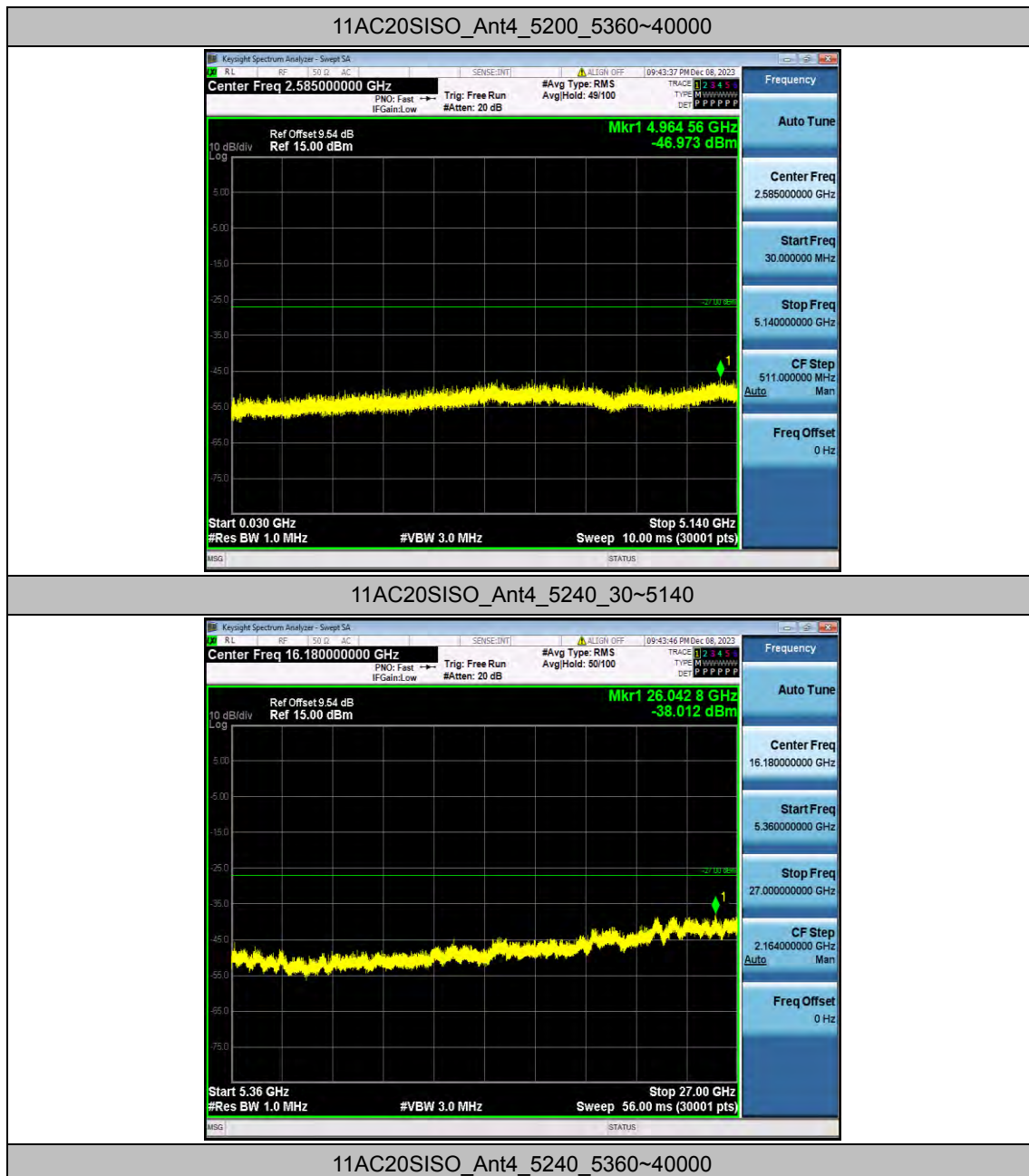


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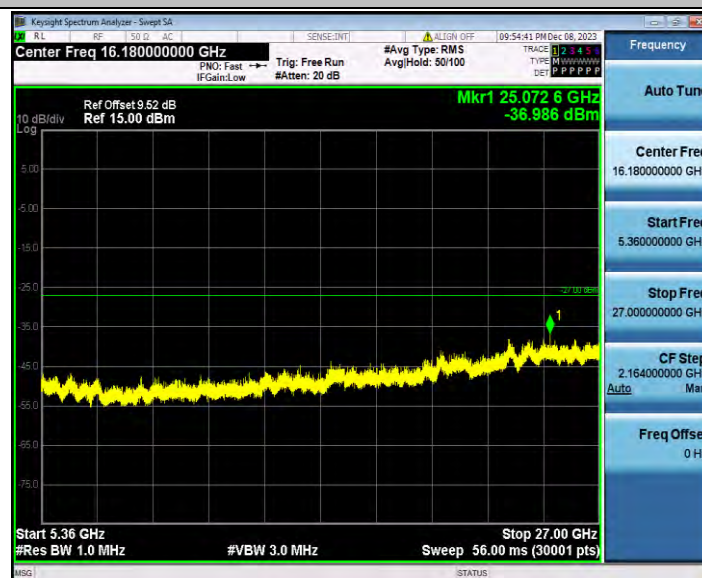
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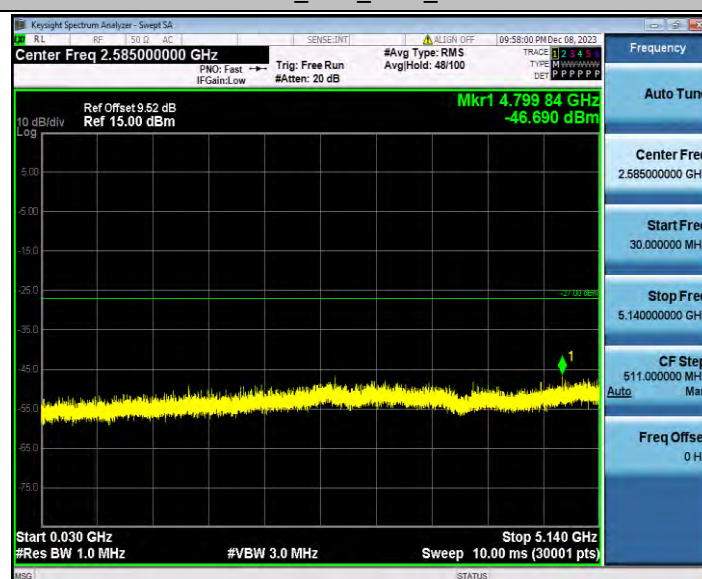




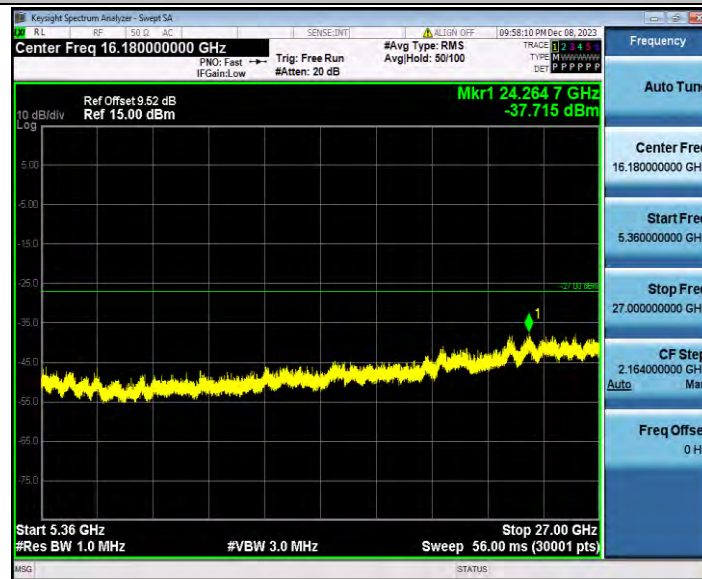
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11AC40SISO_Ant4_5190_5360~40000



11AC40SISO_Ant4_5230_30~5140



11AC40SISO_Ant4_5230_5360~40000



11AC80SISO_Ant4_5210_30~5140

