

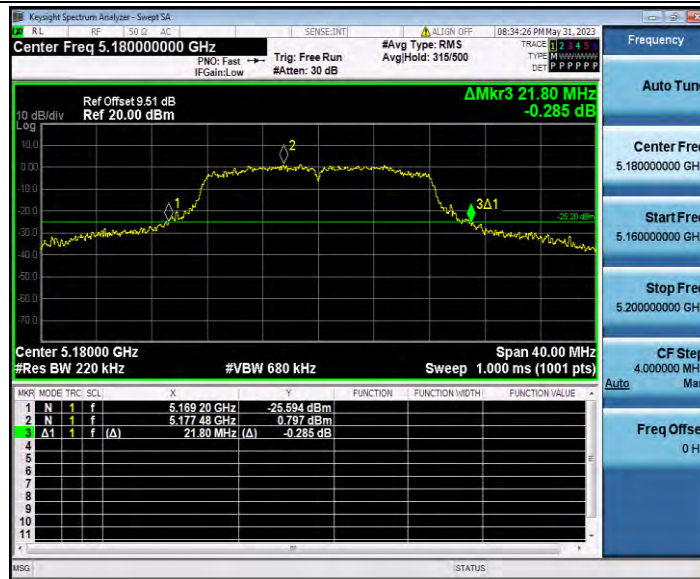
Case No. : <u>GTS20230508024-1-20</u>	
Ambient Condition: <u>24</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.5.30</u>	Test Engineer: <u>Jenny zeng</u>

Appendix D.1: Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.800	5169.200	5191.000	---	---
		5200	22.160	5188.920	5211.080	---	---
		5240	22.720	5228.320	5251.040	---	---
11N20SISO	Ant1	5180	24.840	5167.080	5191.920	---	---
		5200	22.240	5189.000	5211.240	---	---
		5240	22.400	5228.680	5251.080	---	---
11N40SISO	Ant1	5190	41.440	5169.120	5210.560	---	---
		5230	51.120	5199.440	5250.560	---	---
11AC20SISO	Ant1	5180	21.720	5168.800	5190.520	---	---
		5200	22.840	5189.200	5212.040	---	---
		5240	22.800	5228.320	5251.120	---	---
11AC40SISO	Ant1	5190	41.360	5169.280	5210.640	---	---
		5230	48.720	5201.760	5250.480	---	---
11AC80SISO	Ant1	5210	100.320	5150.640	5250.960	---	---

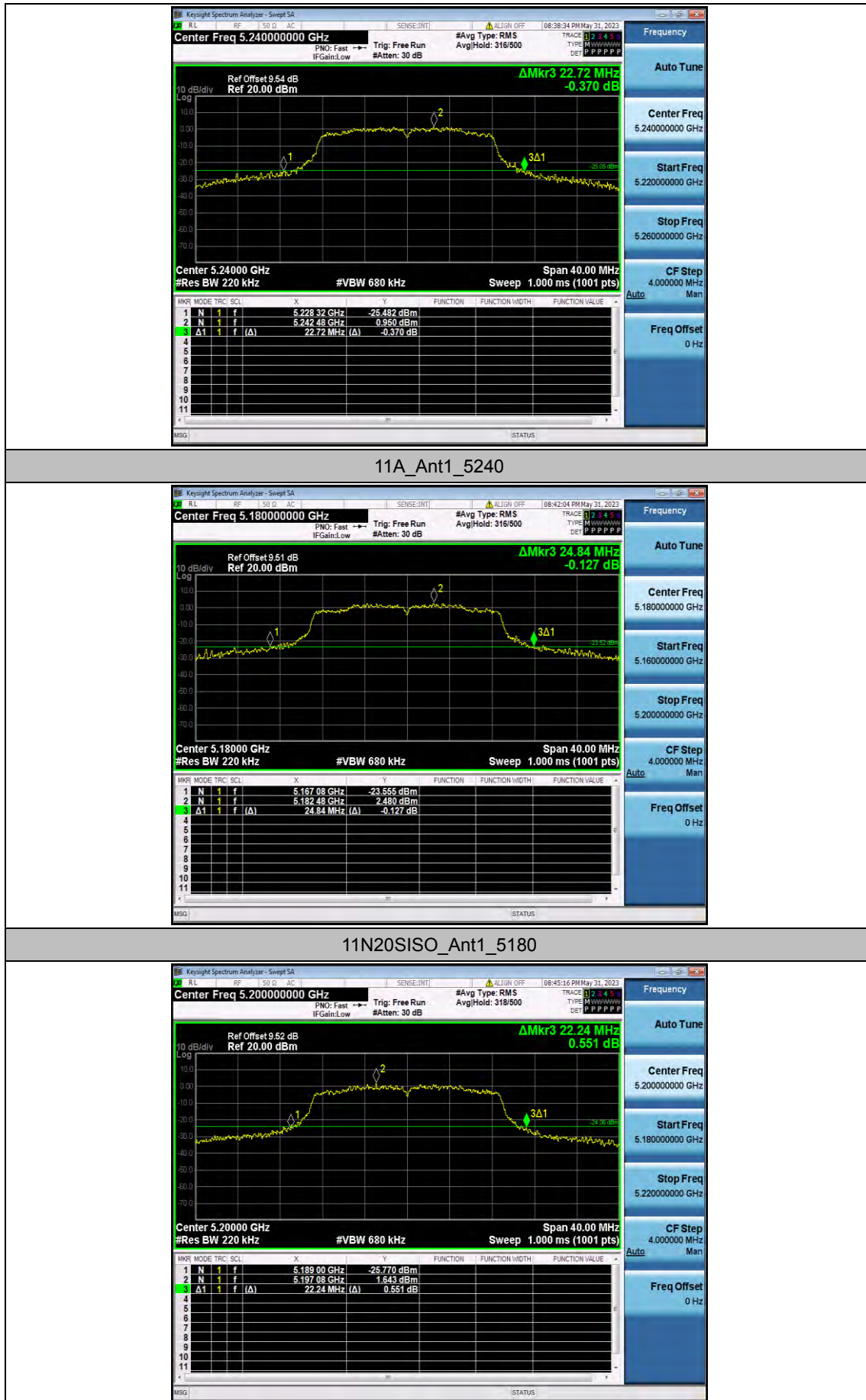
Test Graphs



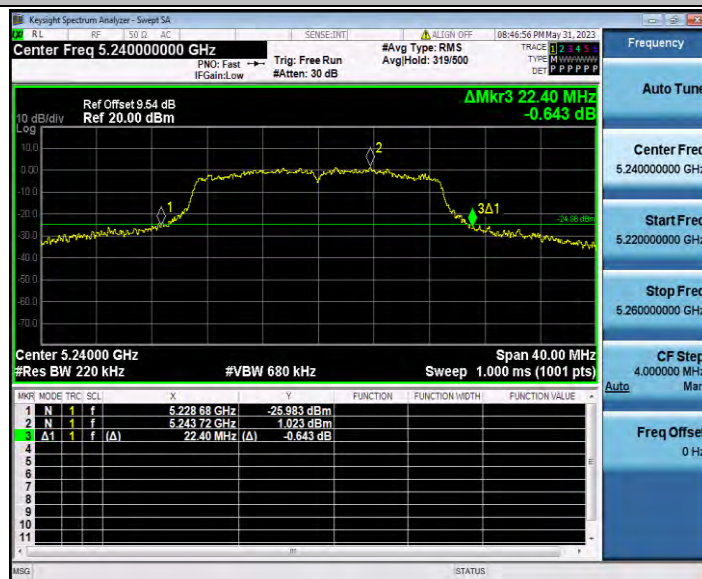
11A_Ant1_5180



11A_Ant1_5200



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



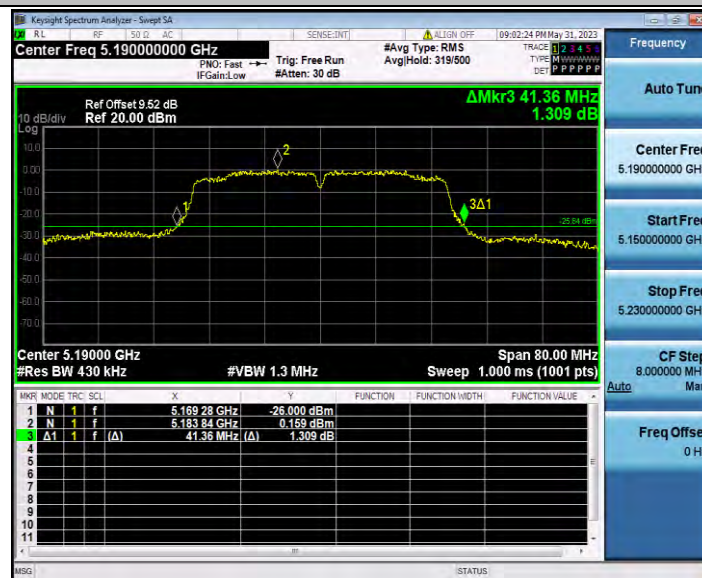
11N40SISO_Ant1_5190



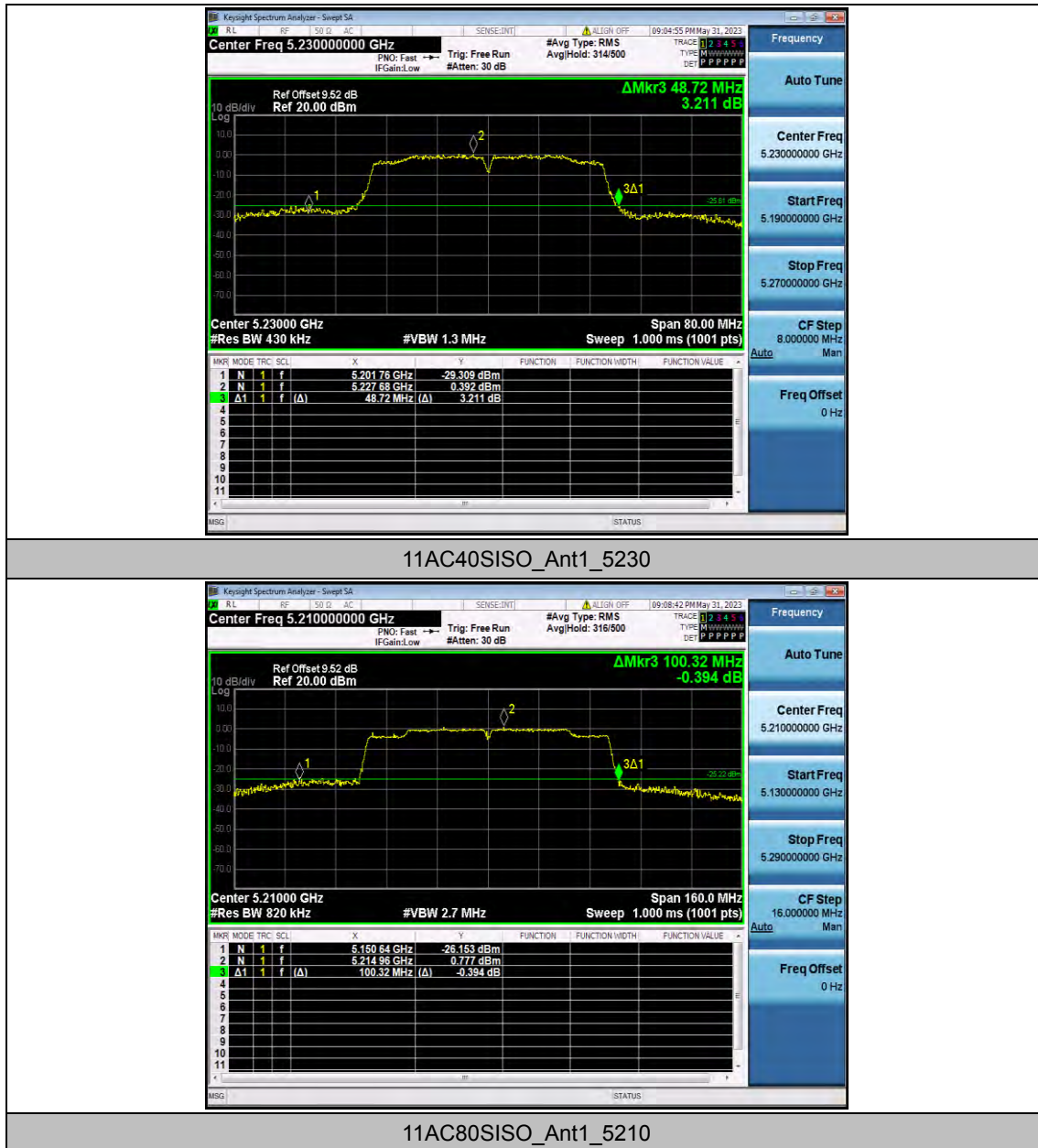
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



Appendix D.2: Occupied channel bandwidth

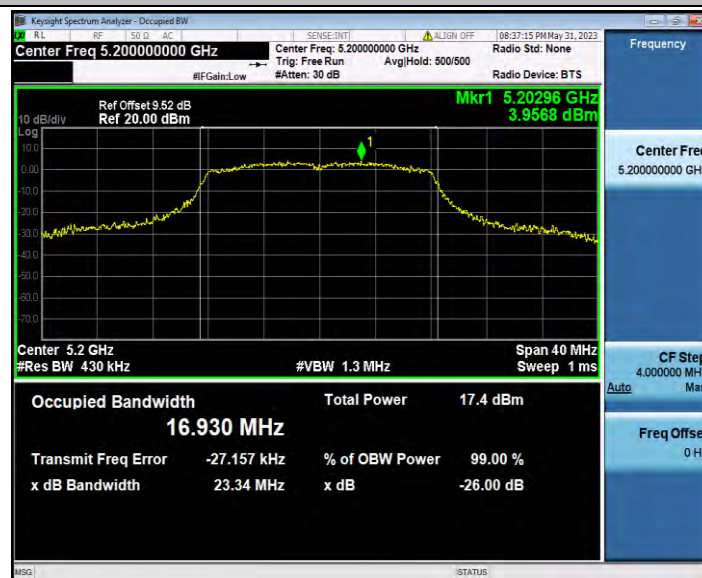
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.906	5171.502	5188.408	---	---
		5200	16.930	5191.508	5208.438	---	---
		5240	16.936	5231.501	5248.437	---	---
11N20SISO	Ant1	5180	18.216	5170.875	5189.091	---	---
		5200	18.065	5190.947	5209.012	---	---
		5240	18.112	5230.905	5249.017	---	---
11N40SISO	Ant1	5190	36.431	5171.787	5208.218	---	---
		5230	36.339	5211.757	5248.096	---	---
11AC20SISO	Ant1	5180	18.124	5170.919	5189.043	---	---
		5200	18.040	5190.969	5209.009	---	---
		5240	18.110	5230.933	5249.043	---	---
11AC40SISO	Ant1	5190	36.326	5171.800	5208.126	---	---
		5230	36.374	5211.781	5248.155	---	---
11AC80SISO	Ant1	5210	75.469	5172.297	5247.766	---	---

Test Graphs



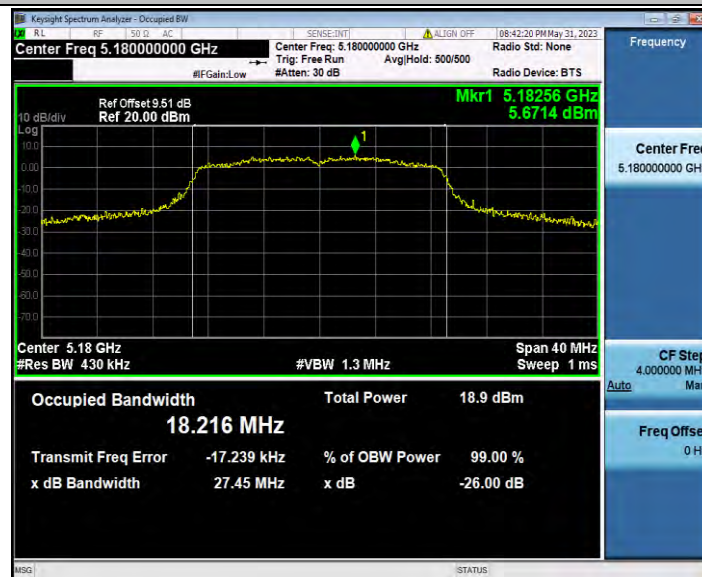
11A_Ant1_5180



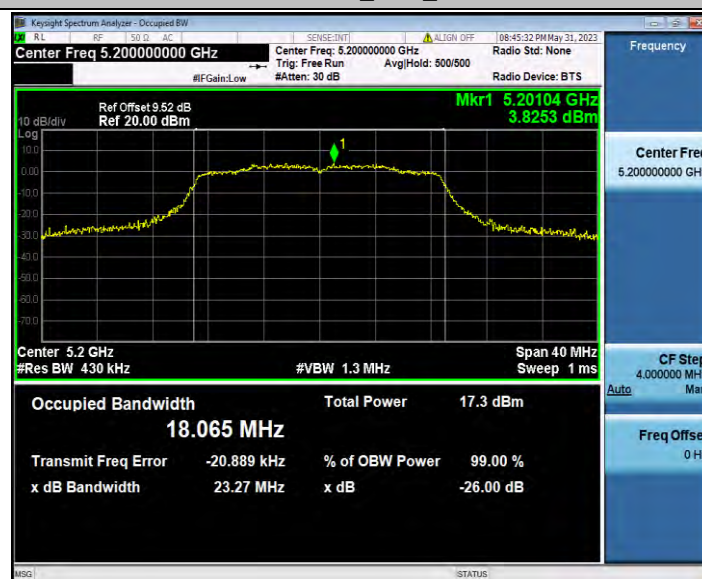
11A_Ant1_5200



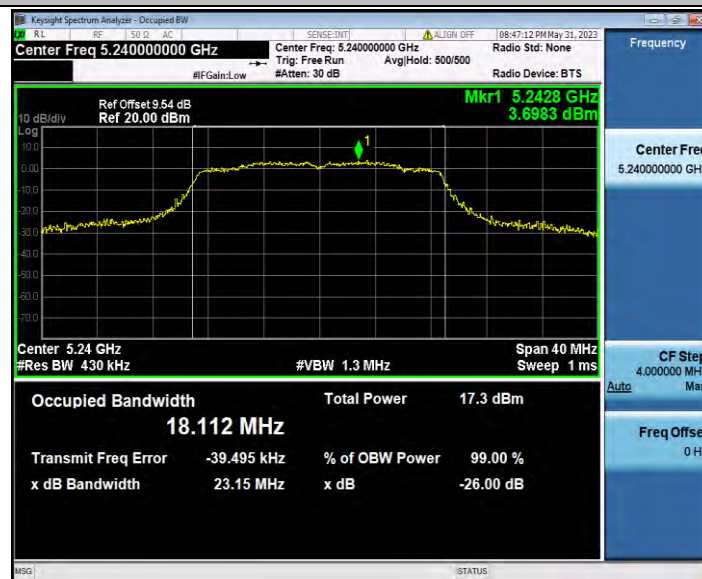
11A_Ant1_5240



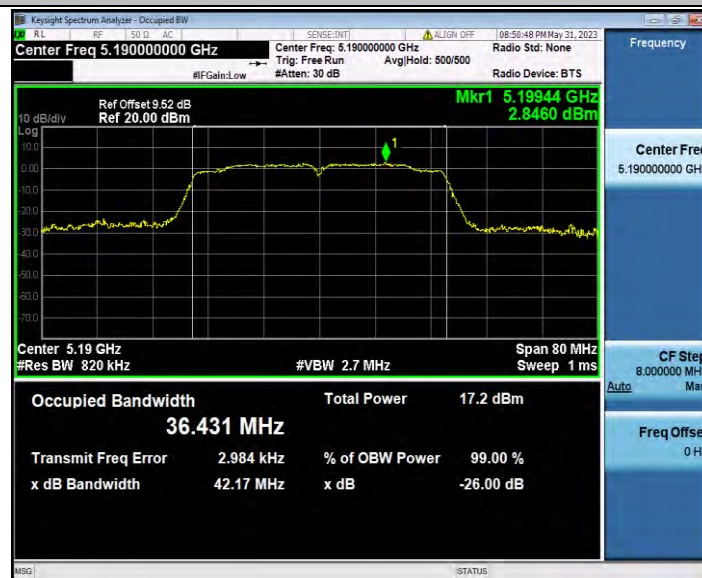
11N20SISO_Ant1_5180



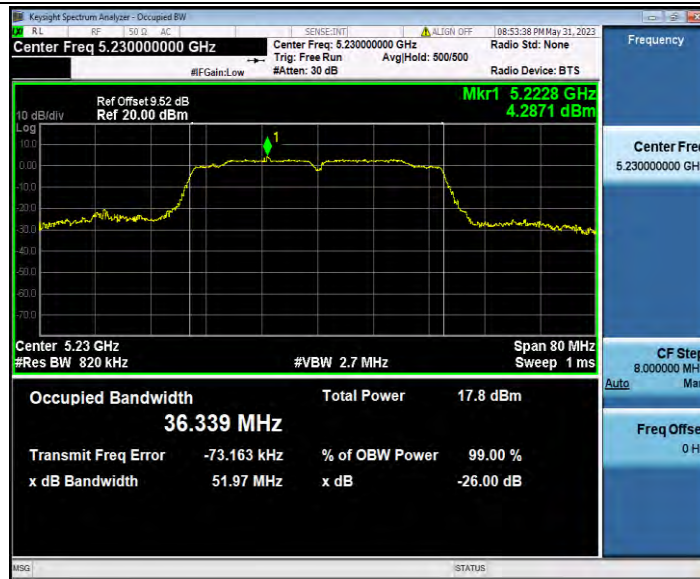
11N20SISO_Ant1_5200



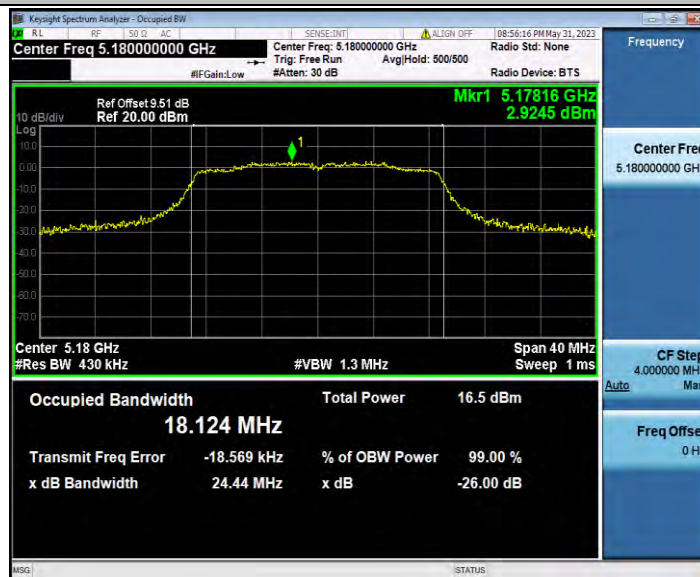
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



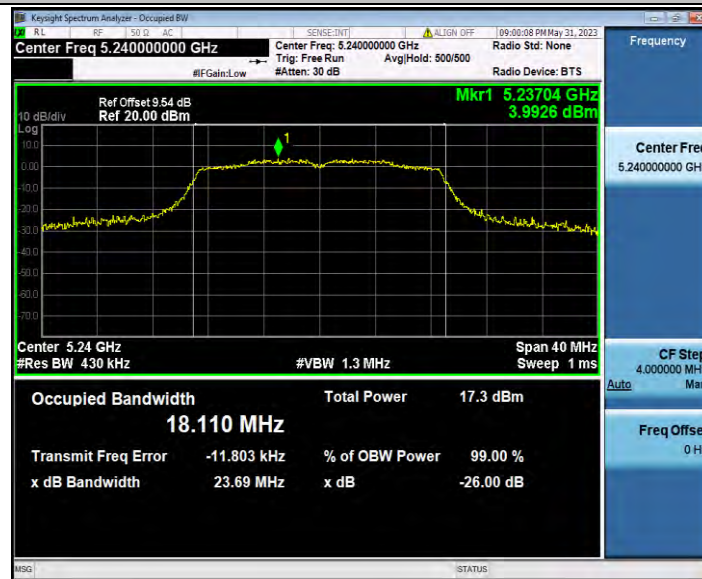
11N40SISO_Ant1_5230



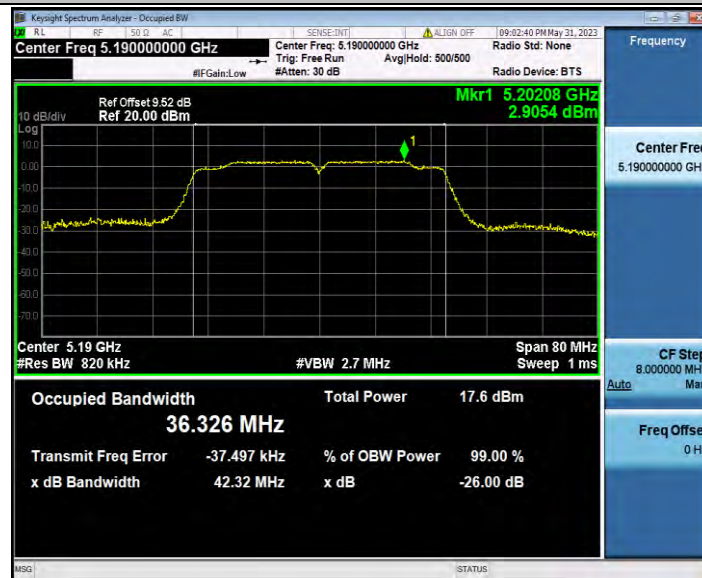
11AC20SISO_Ant1_5180



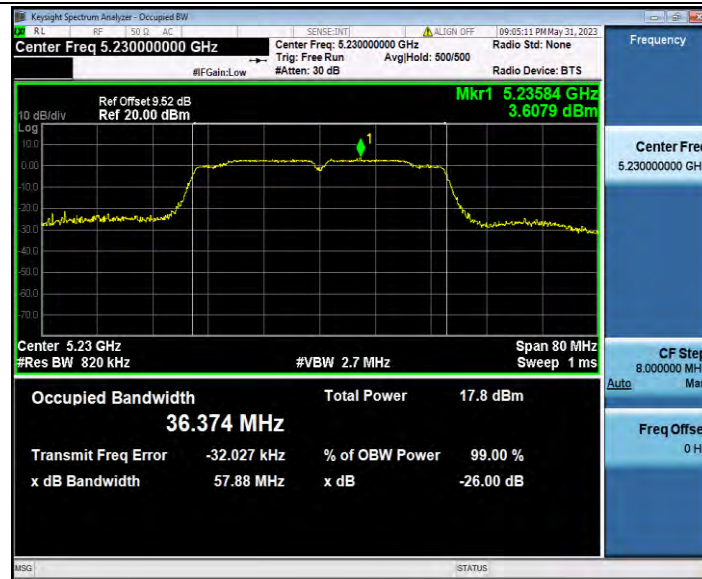
11AC20SISO_Ant1_5200



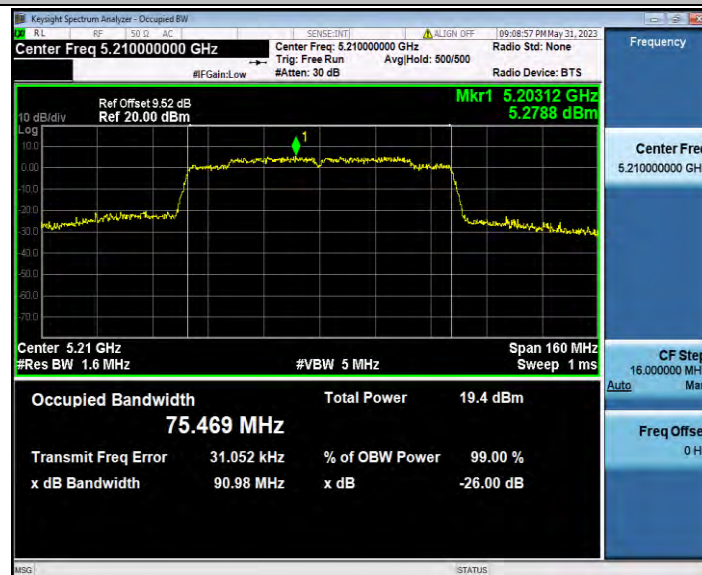
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



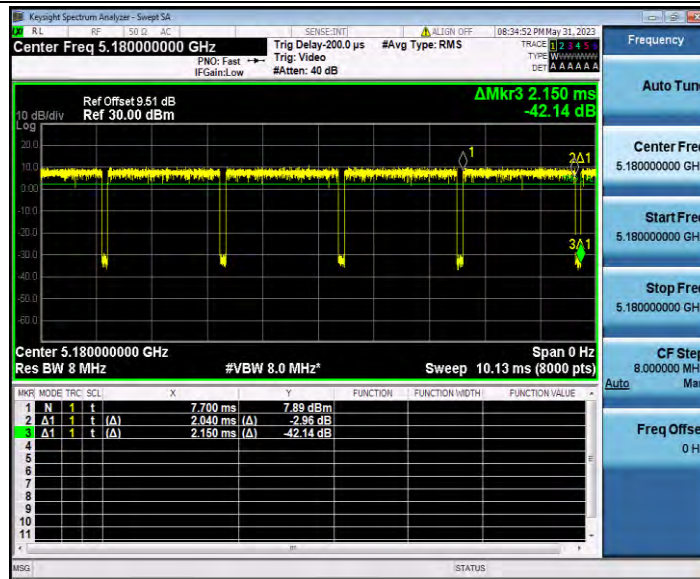
11AC80SISO_Ant1_5210

Appendix D.3: Duty Cycle

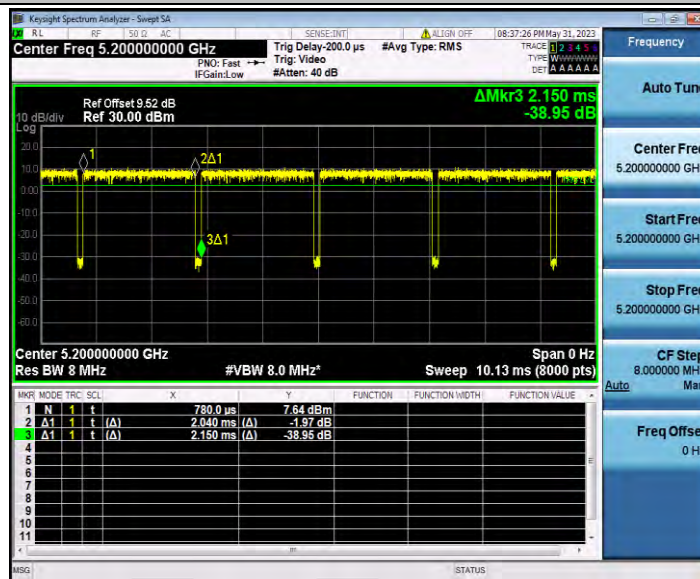
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.04	2.15	94.88
		5200	2.04	2.15	94.88
		5240	2.05	2.16	94.91
11N20SISO	Ant1	5180	1.91	1.99	95.98
		5200	1.91	1.99	95.98
		5240	1.91	1.99	95.98
11N40SISO	Ant1	5190	0.93	1.10	84.55
		5230	0.94	1.11	84.68
11AC20SISO	Ant1	5180	1.91	2.00	95.50
		5200	1.92	2.00	96.00
		5240	1.92	2.00	96.00
11AC40SISO	Ant1	5190	0.94	1.11	84.68
		5230	0.94	1.11	84.68
11AC80SISO	Ant1	5210	0.46	0.55	83.64

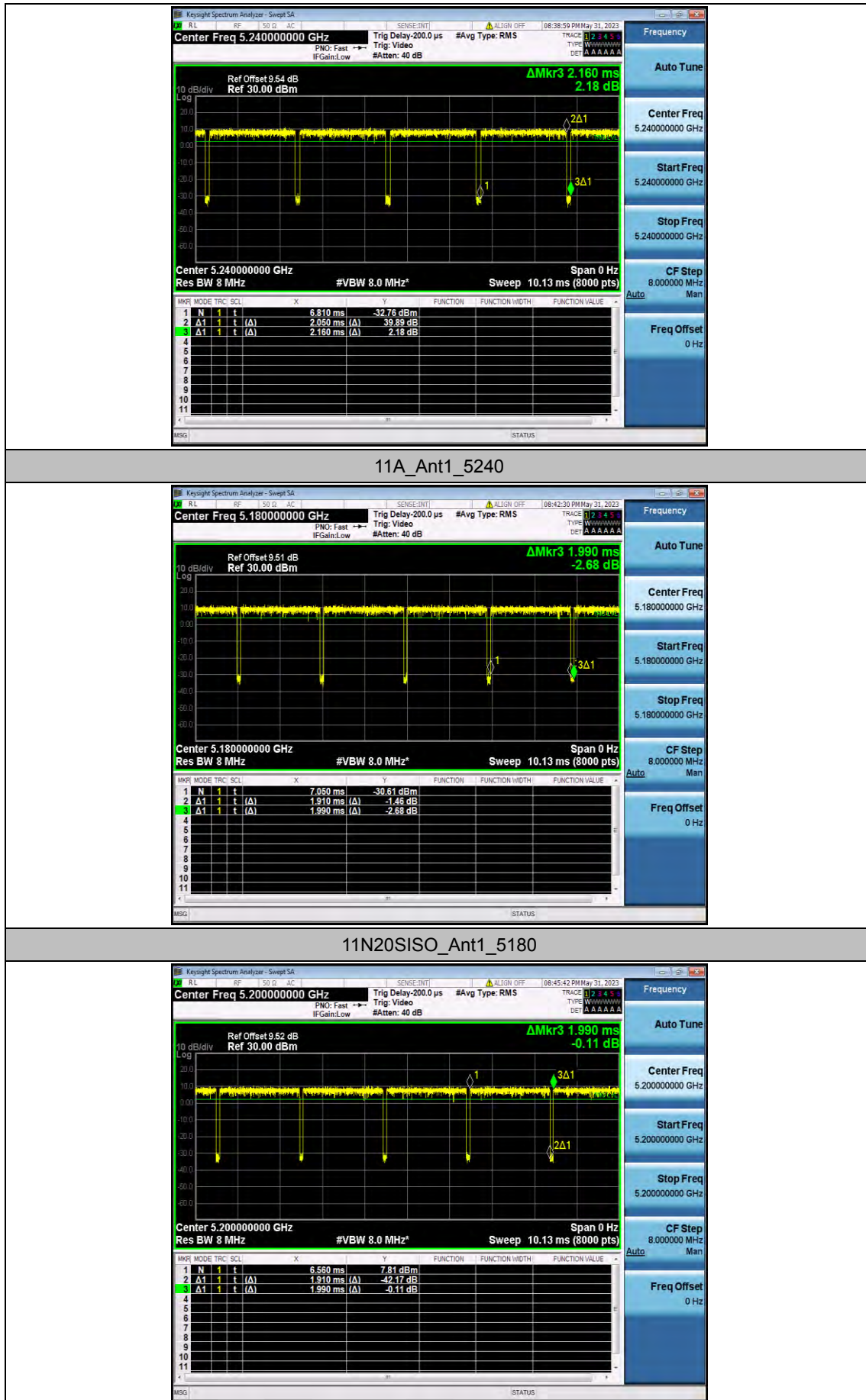
Test Graphs



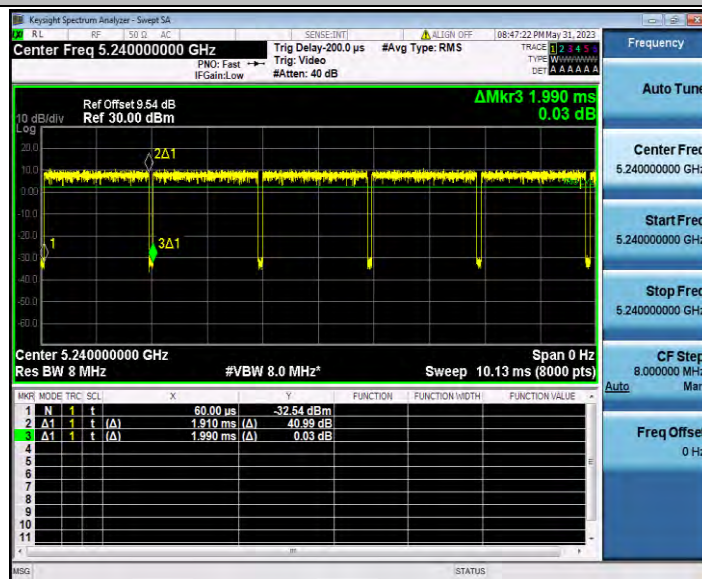
11A_Ant1_5180



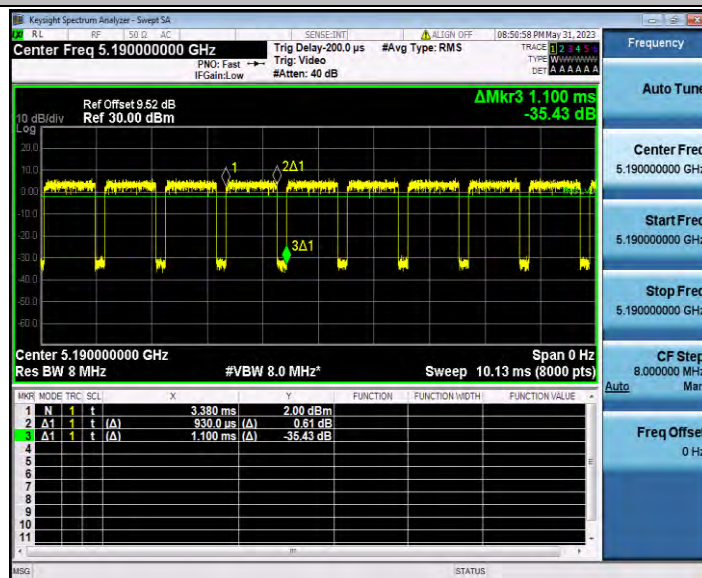
11A_Ant1_5200



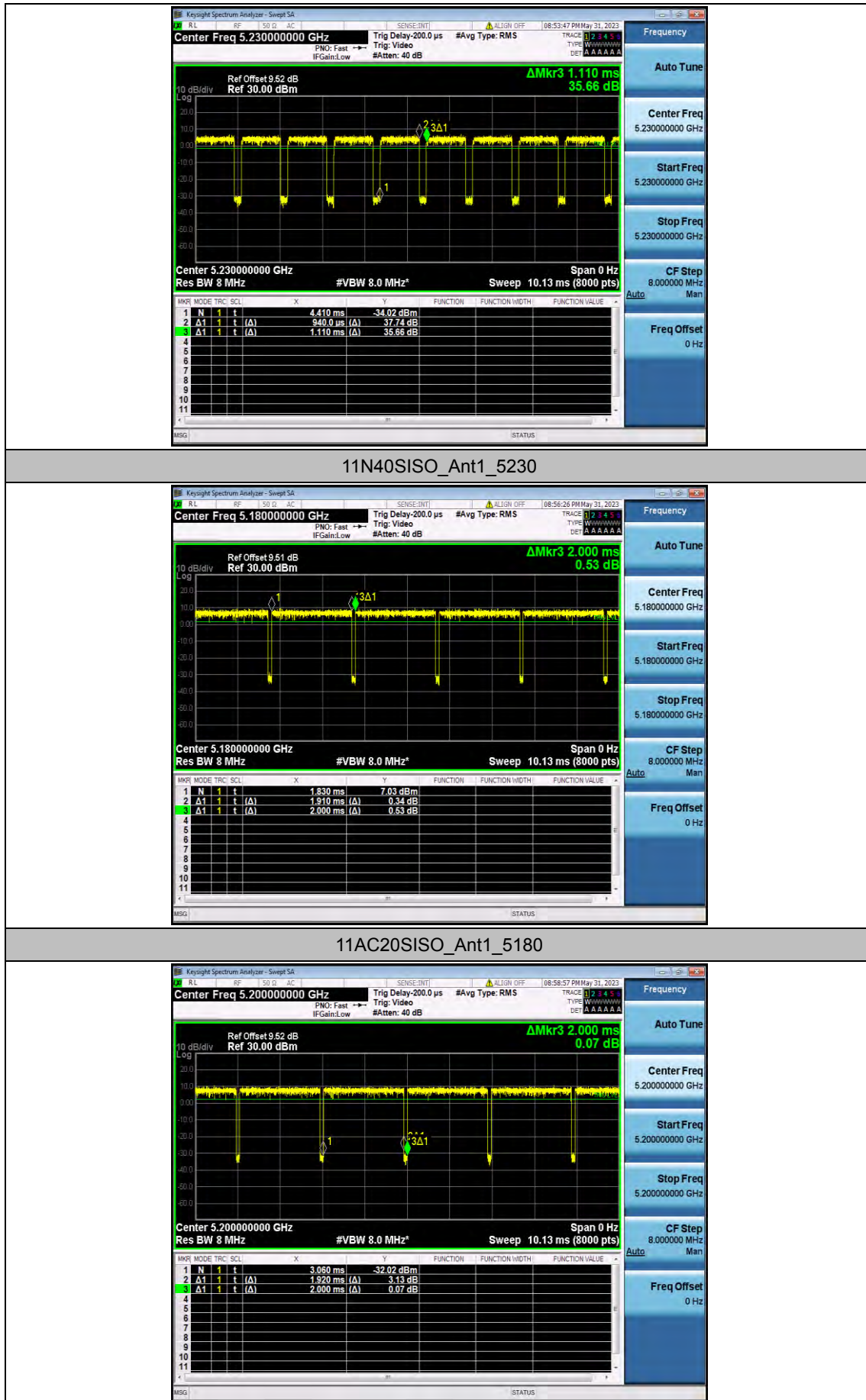
11N20SISO_Ant1_5200



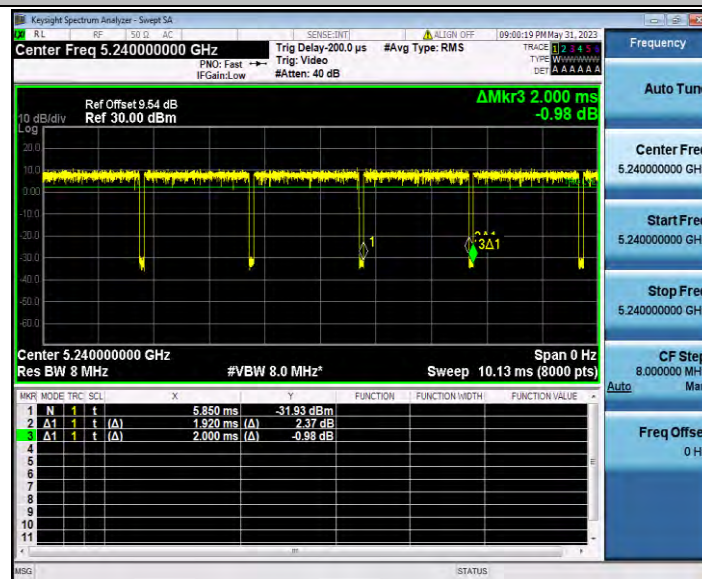
11N20SISO_Ant1_5240



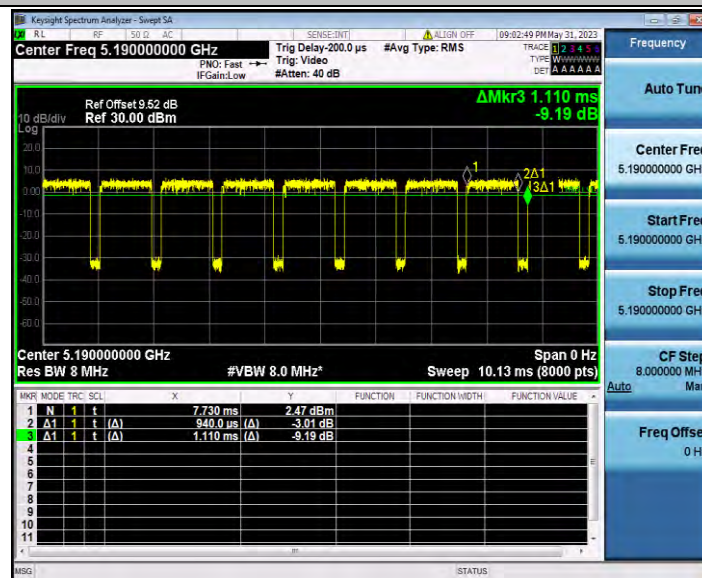
11N40SISO_Ant1_5190



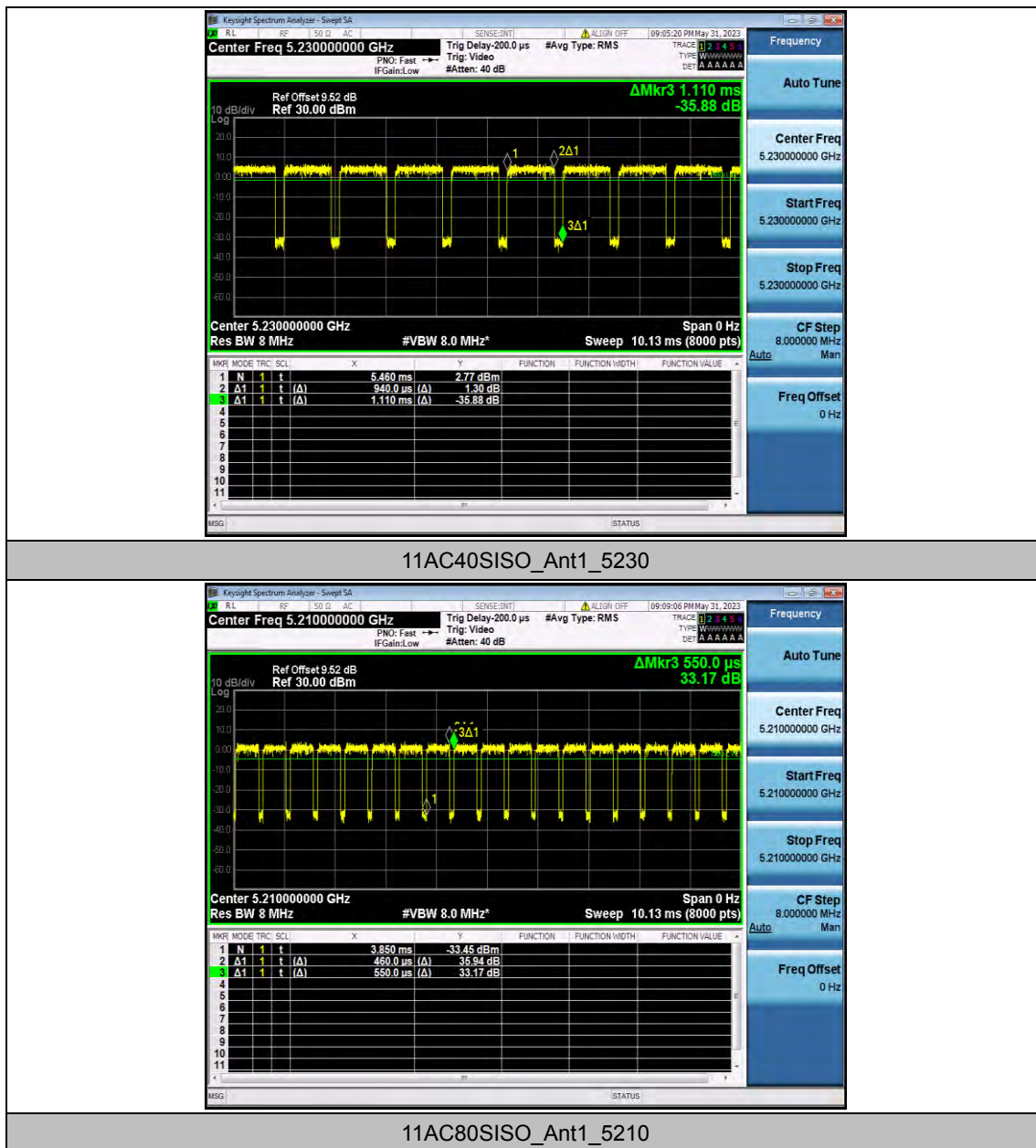
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_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	Ant1	5180	9.90	94.88	0.23	10.13	≤23.98	PASS
		5200	10.32	94.88	0.23	10.55	≤23.98	PASS
		5240	10.52	94.91	0.23	10.75	≤23.98	PASS
11N20SISO	Ant1	5180	11.75	95.98	0.18	11.93	≤23.98	PASS
		5200	10.26	95.98	0.18	10.44	≤23.98	PASS
		5240	10.25	95.98	0.18	10.43	≤23.98	PASS
11N40SISO	Ant1	5190	9.09	84.55	0.73	9.82	≤23.98	PASS
		5230	9.71	84.68	0.72	10.43	≤23.98	PASS
11AC20SISO	Ant1	5180	9.57	95.50	0.20	9.77	≤23.98	PASS
		5200	10.26	96.00	0.18	10.44	≤23.98	PASS
		5240	10.26	96.00	0.18	10.44	≤23.98	PASS
11AC40SISO	Ant1	5190	9.43	84.68	0.72	10.15	≤23.98	PASS
		5230	9.68	84.68	0.72	10.40	≤23.98	PASS
11AC80SISO	Ant1	5210	9.97	83.64	0.78	10.75	≤23.98	PASS

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

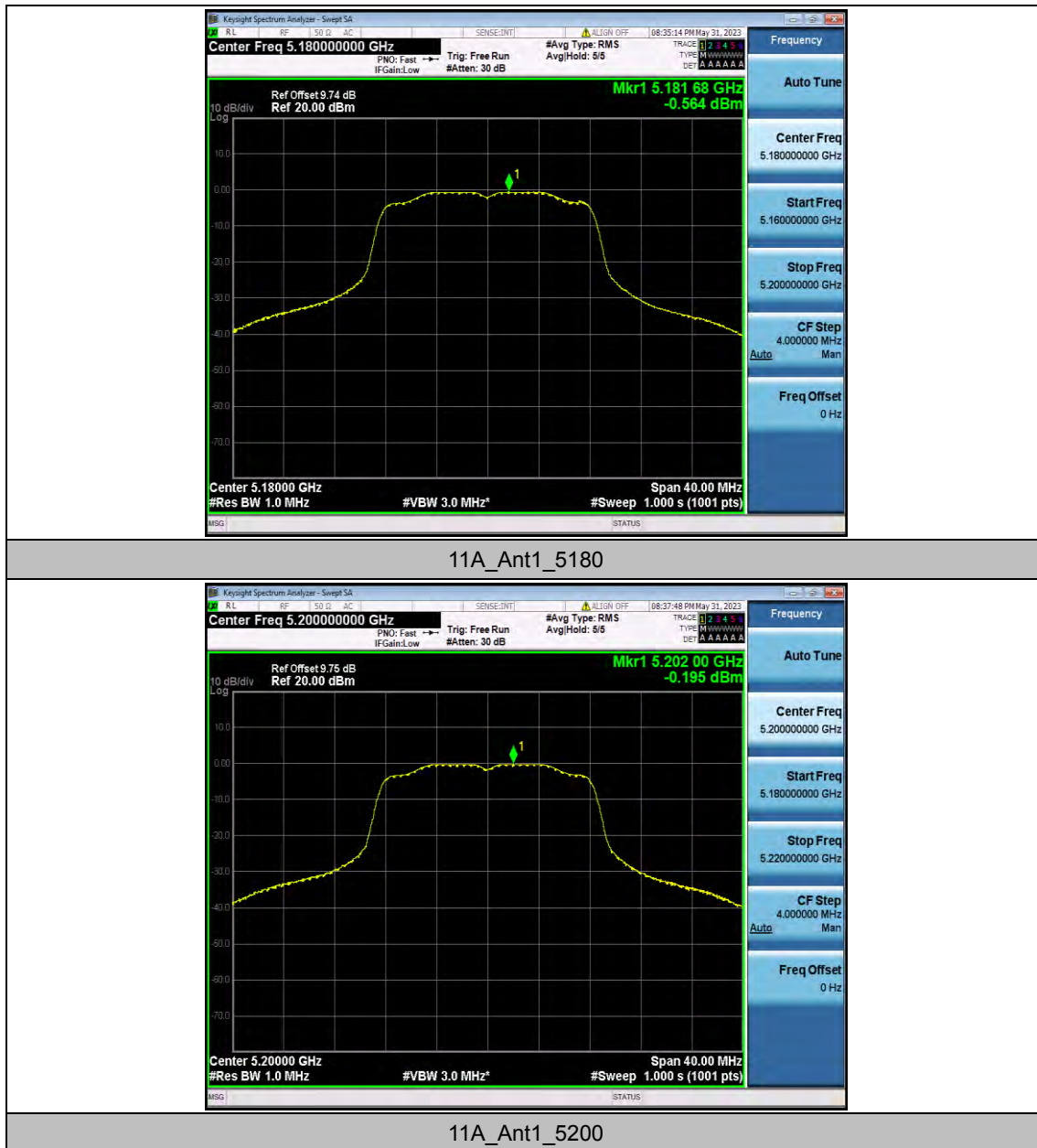
Appendix D.5: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-0.56	≤11.00	PASS
		5200	-0.2	≤11.00	PASS
		5240	-0.09	≤11.00	PASS
11N20SISO	Ant1	5180	0.9	≤11.00	PASS
		5200	-0.6	≤11.00	PASS
		5240	-0.47	≤11.00	PASS
11N40SISO	Ant1	5190	-4.05	≤11.00	PASS
		5230	-3.58	≤11.00	PASS
11AC20SISO	Ant1	5180	-1.28	≤11.00	PASS
		5200	-0.59	≤11.00	PASS
		5240	-0.47	≤11.00	PASS
11AC40SISO	Ant1	5190	-3.67	≤11.00	PASS
		5230	-3.5	≤11.00	PASS
11AC80SISO	Ant1	5210	-6.23	≤11.00	PASS

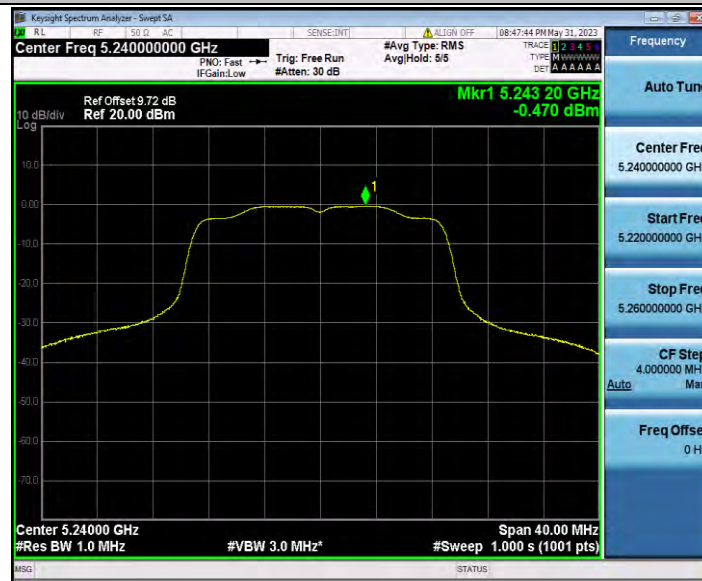
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
 2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs





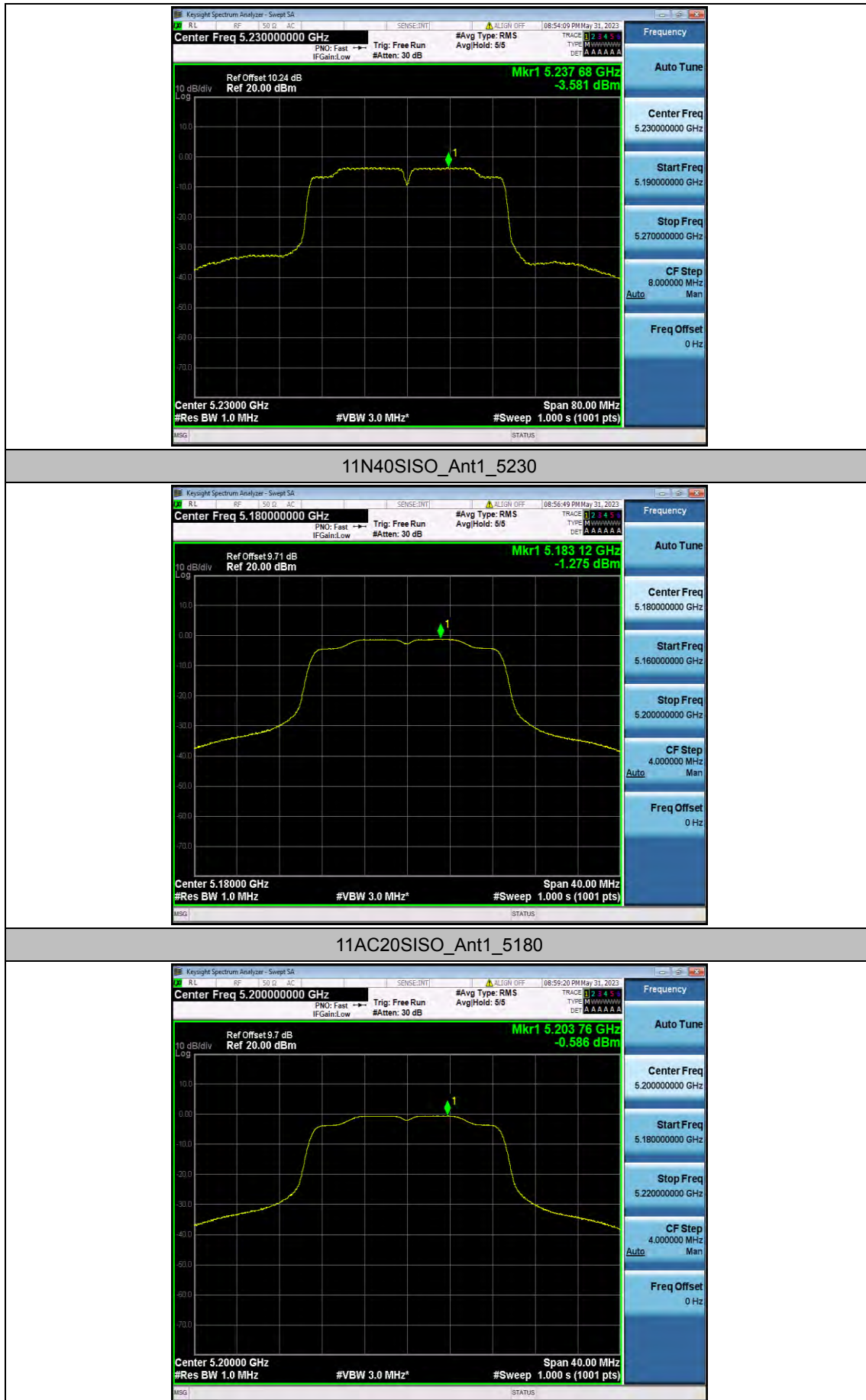
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



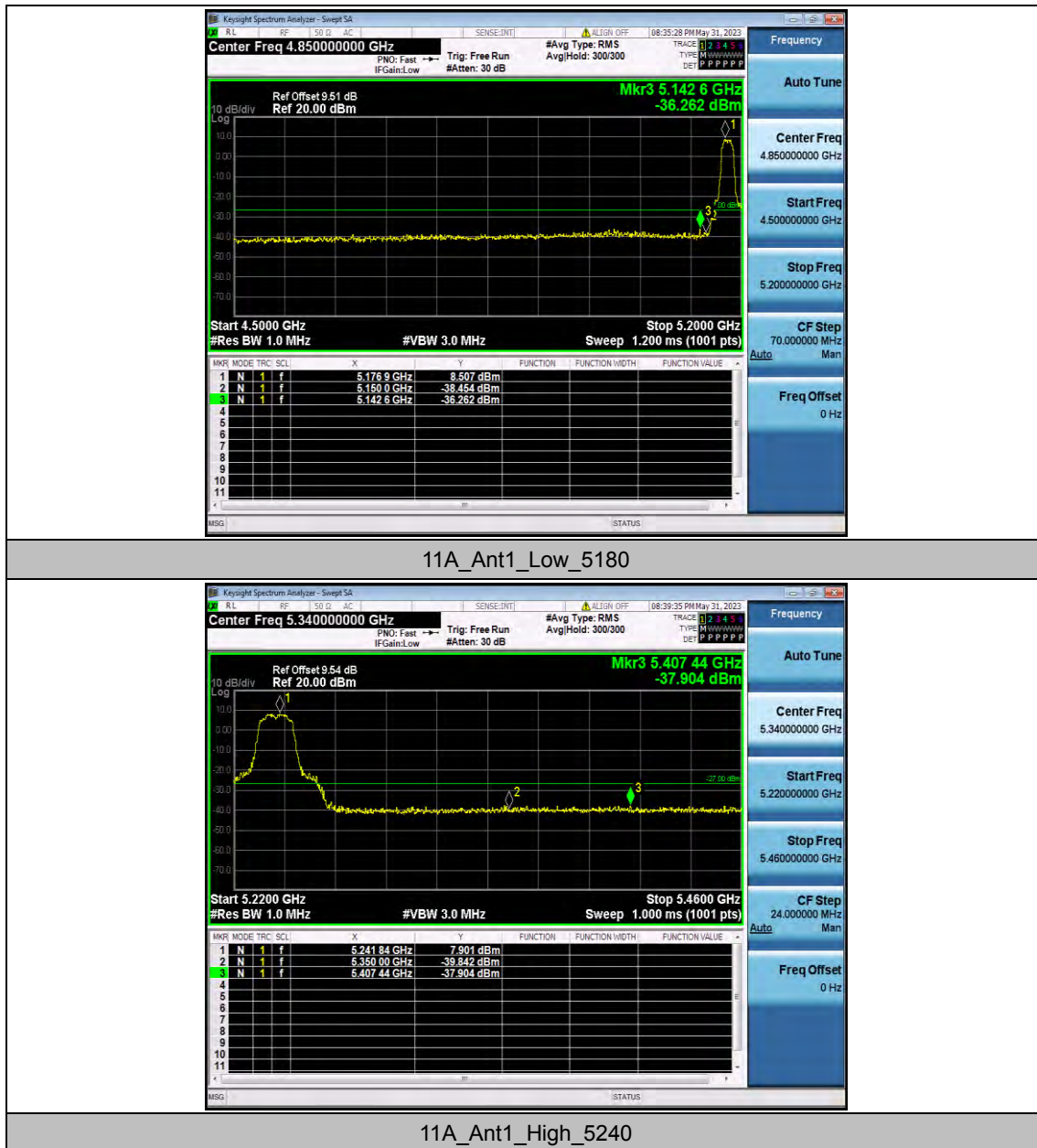
11AC80SISO_Ant1_5210

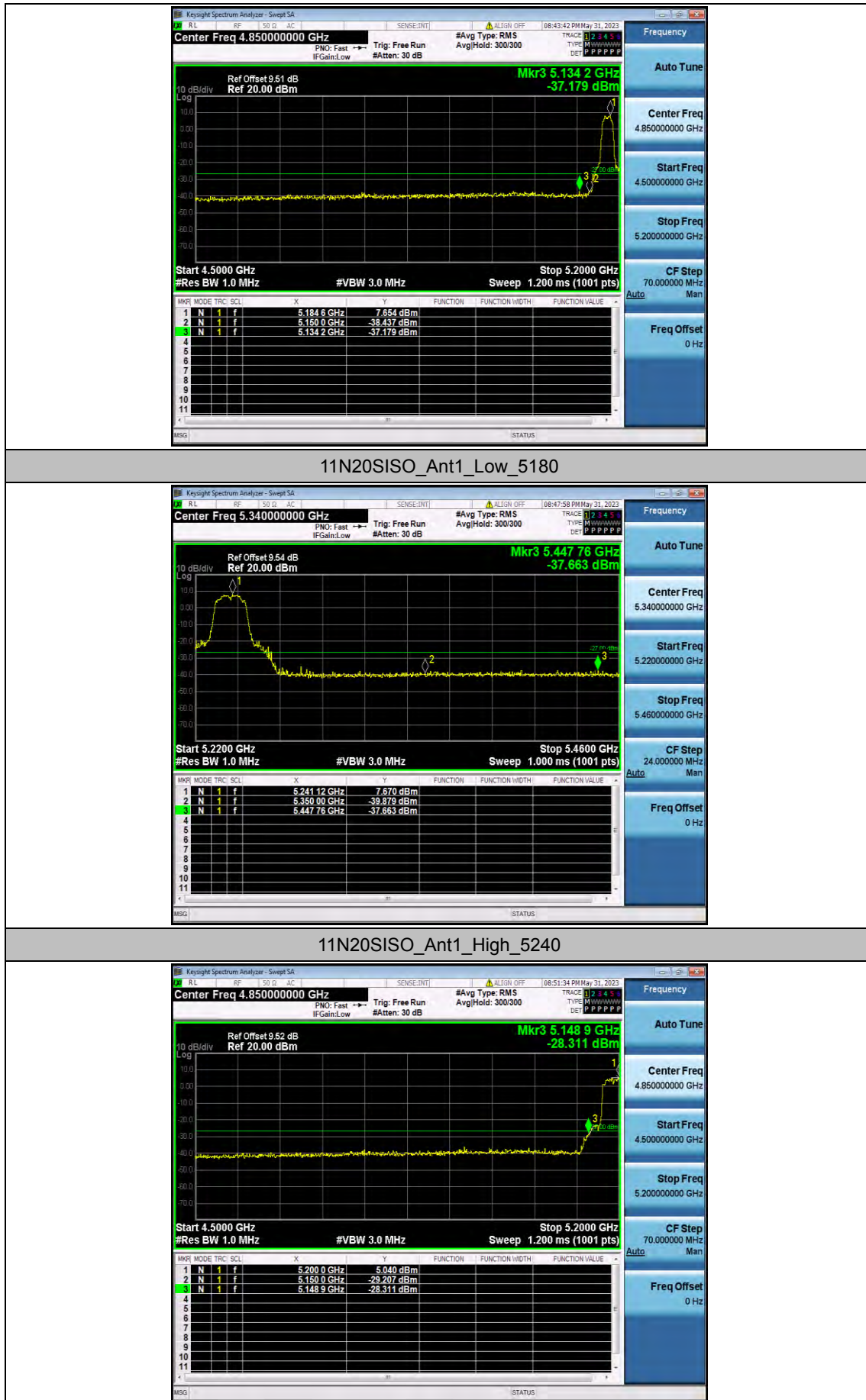
Appendix D.6: Band edge measurements

Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-36.26	≤ -27	PASS
		High	5240	-37.9	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-37.18	≤ -27	PASS
		High	5240	-37.66	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-28.31	≤ -27	PASS
		High	5230	-37.59	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-36.99	≤ -27	PASS
		High	5240	-37.01	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-27.93	≤ -27	PASS
		High	5230	-37.84	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-30.42	≤ -27	PASS
		High	5210	-37.22	≤ -27	PASS

Test Graphs B1/2/3

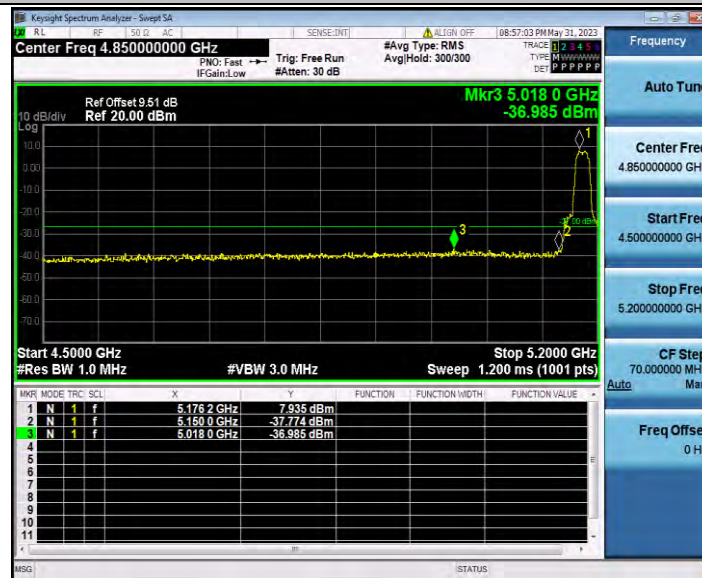




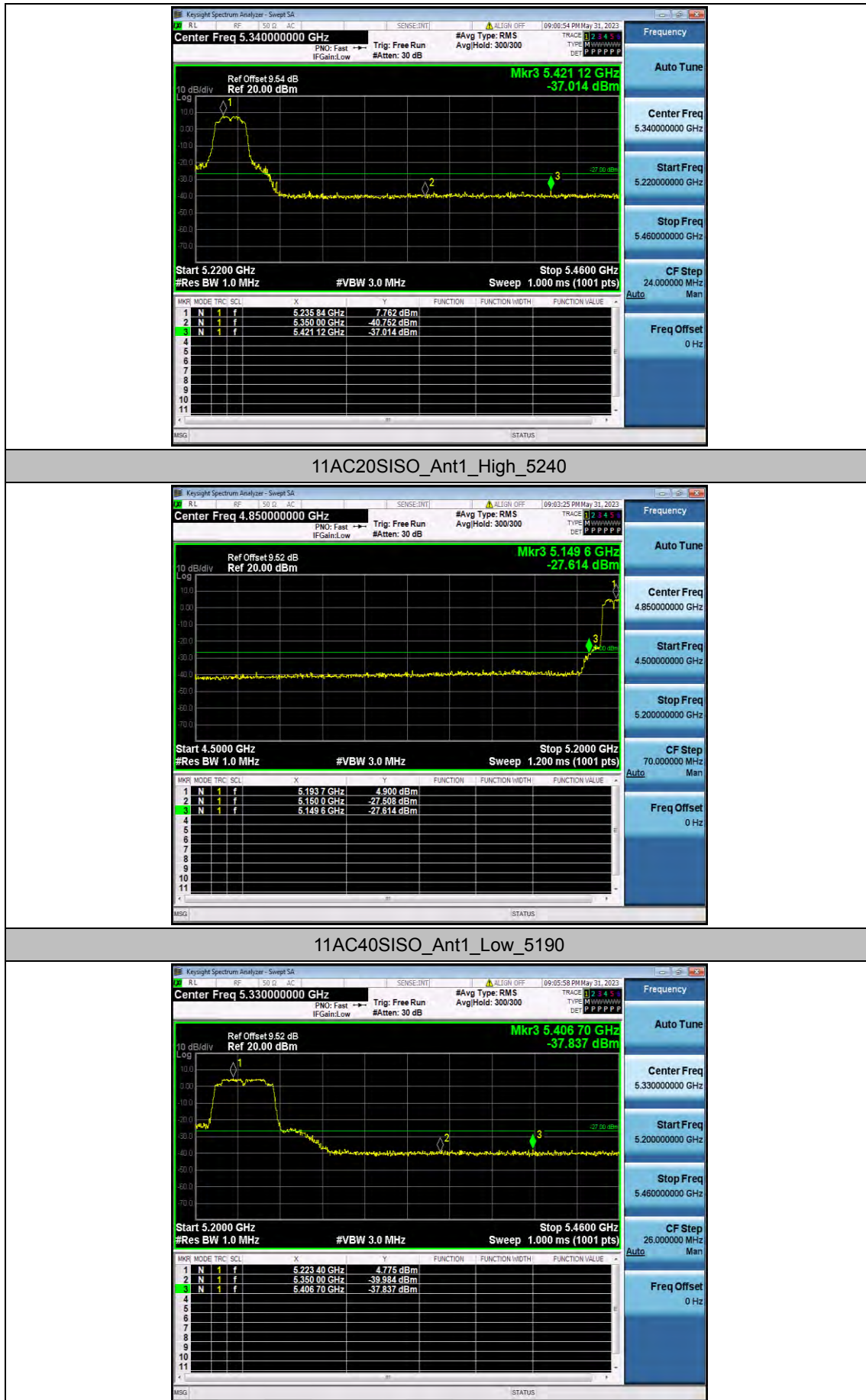
11N40SISO_Ant1_Low_5190



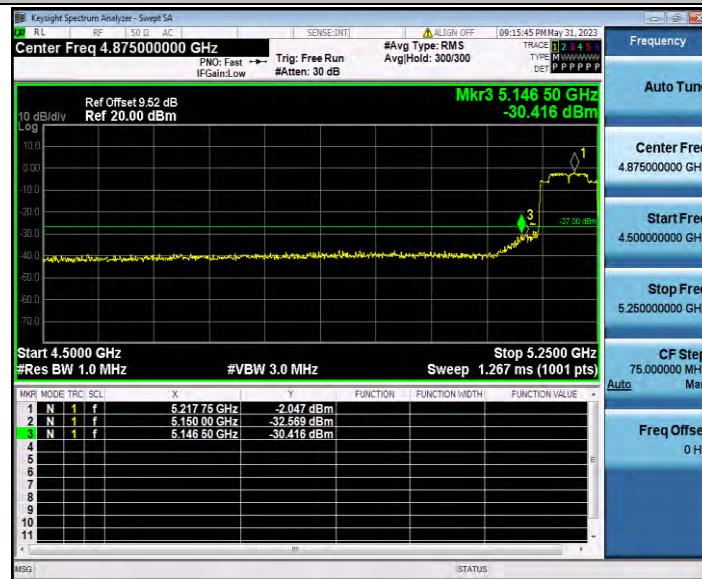
11N40SISO_Ant1_High_5230



11AC20SISO_Ant1_Low_5180



11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



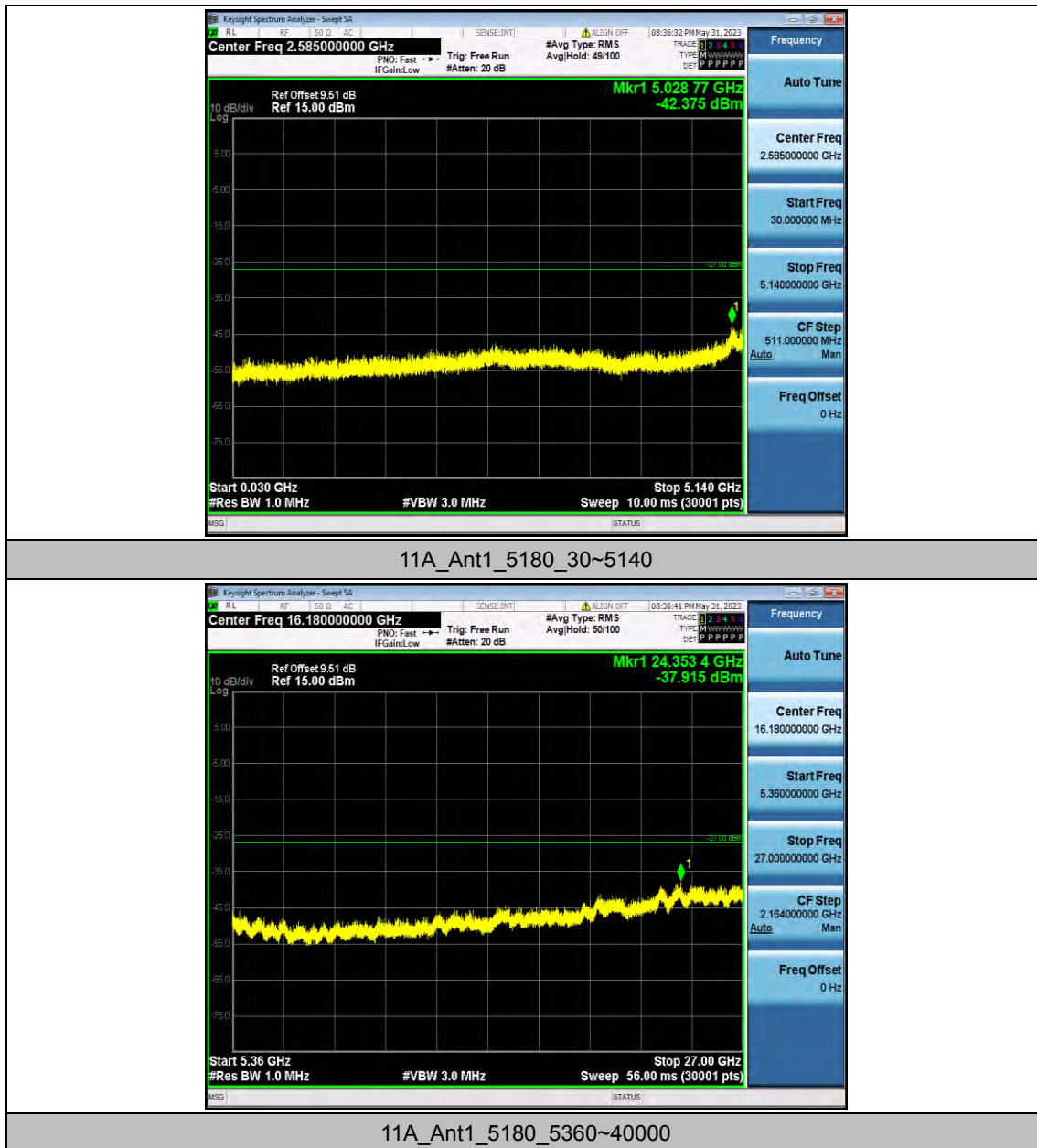
11AC80SISO_Ant1_High_5210

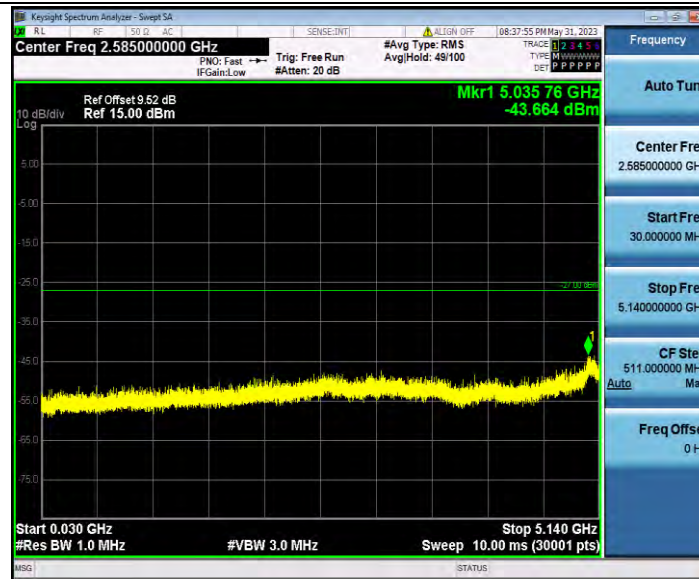
Appendix D.7: Conducted Spurious Emission

Test Result

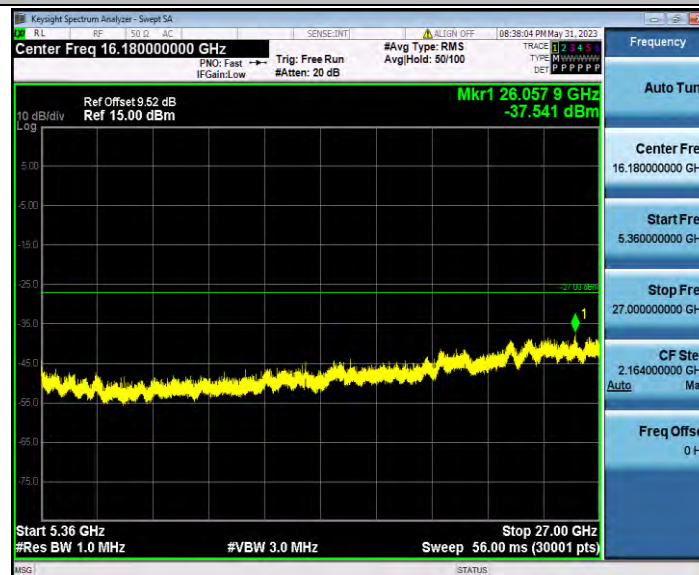
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5028.77	-42.38	≤-27	PASS
			5360~40000	24353.43	-37.92	≤-27	PASS
		5200	30~5140	5035.76	-43.66	≤-27	PASS
			5360~40000	26057.94	-37.54	≤-27	PASS
		5240	30~5140	5087.2	-43.79	≤-27	PASS
			5360~40000	24346.21	-37.39	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5130.63	-42.74	≤-27	PASS
			5360~40000	24890.1	-38.41	≤-27	PASS
		5200	30~5140	5041.72	-43.5	≤-27	PASS
			5360~40000	24220.7	-37.7	≤-27	PASS
		5240	30~5140	5077.15	-42.92	≤-27	PASS
			5360~40000	26461.16	-37.45	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5138.3	-38.72	≤-27	PASS
			5360~40000	26891.08	-38.24	≤-27	PASS
		5230	30~5140	5054.66	-43.82	≤-27	PASS
			5360~40000	24317.36	-37.75	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5051.43	-43.77	≤-27	PASS
			5360~40000	26540.51	-38.25	≤-27	PASS
		5200	30~5140	5036.61	-42.77	≤-27	PASS
			5360~40000	26672.51	-37.91	≤-27	PASS
		5240	30~5140	5083.79	-43.51	≤-27	PASS
			5360~40000	26487.85	-37.99	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5139.66	-40.85	≤-27	PASS
			5360~40000	26945.18	-37.8	≤-27	PASS
		5230	30~5140	5036.44	-44.26	≤-27	PASS
			5360~40000	26024.04	-37.94	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5135.74	-29.11	≤-27	PASS
			5360~40000	23510.91	-38.34	≤-27	PASS

Test Graphs

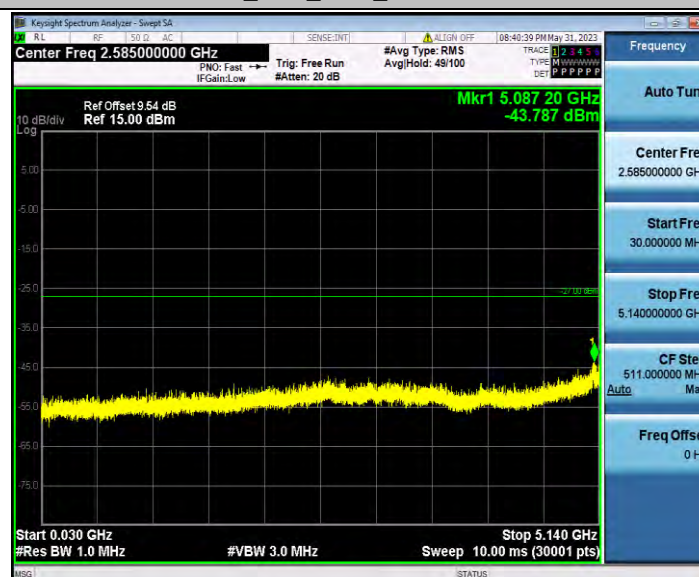




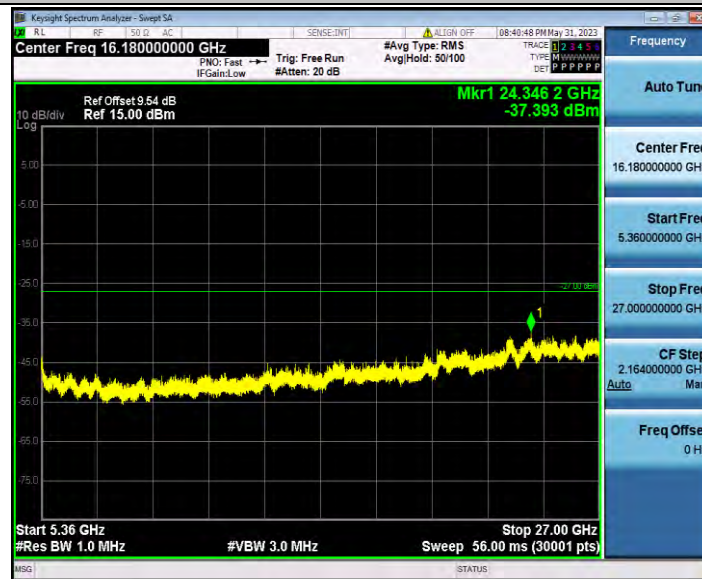
11A_Ant1_5200_30~5140



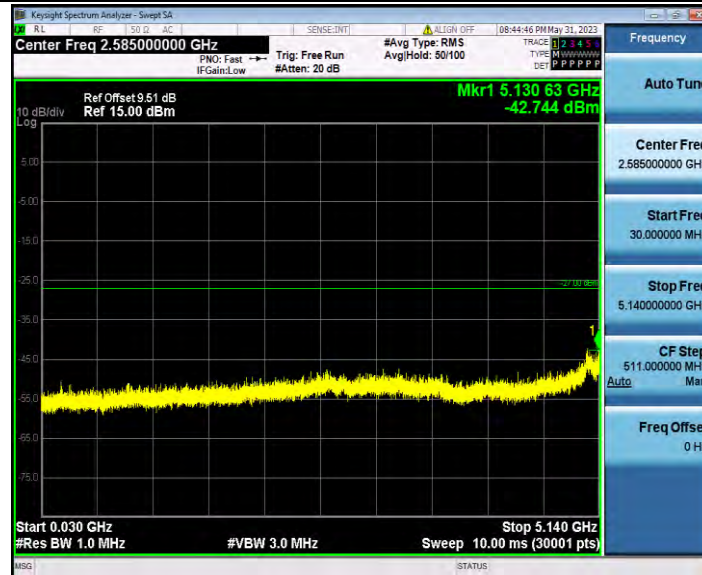
11A_Ant1_5200_5360~40000



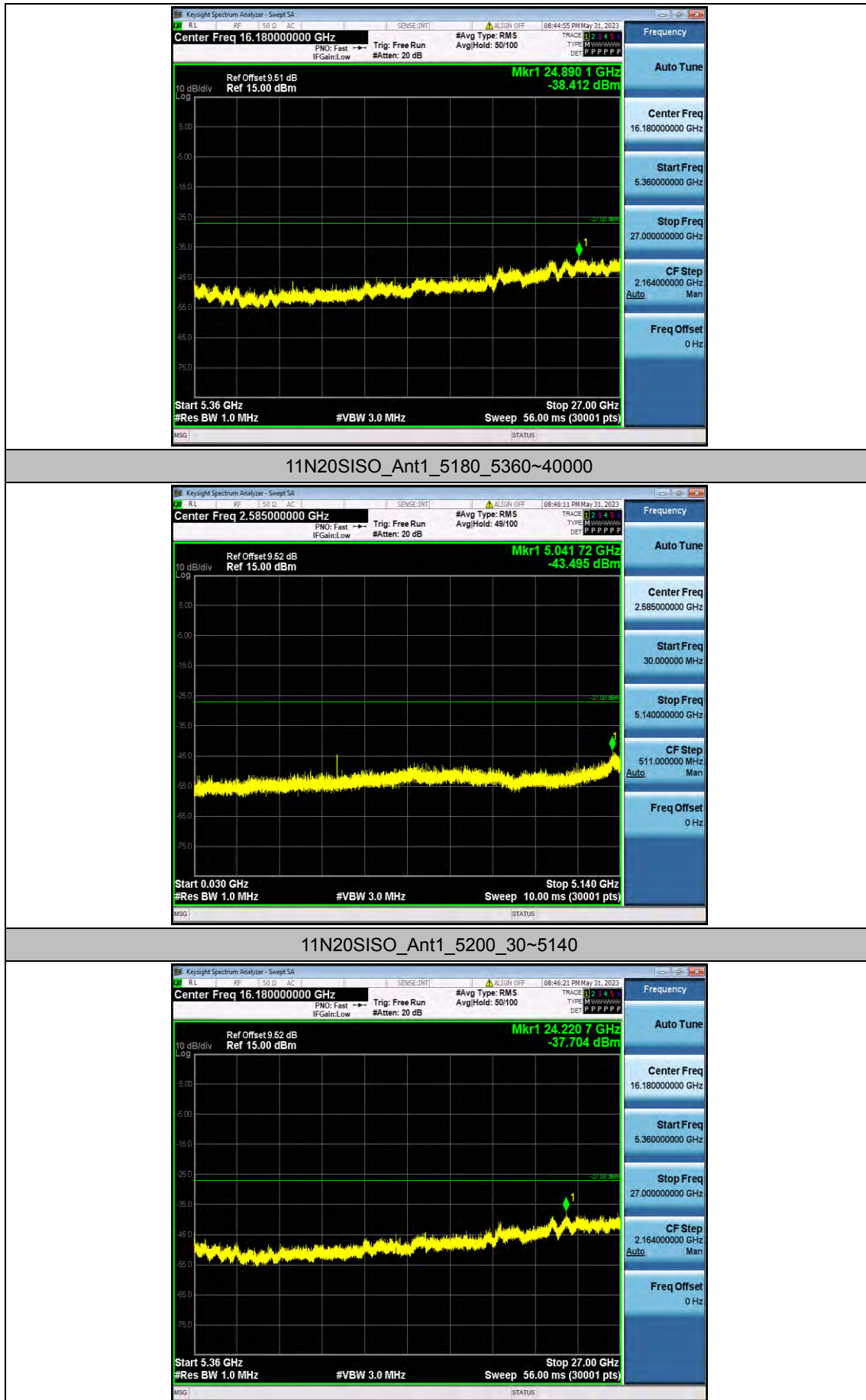
11A_Ant1_5240_30~5140



11A_Ant1_5240_5360~40000



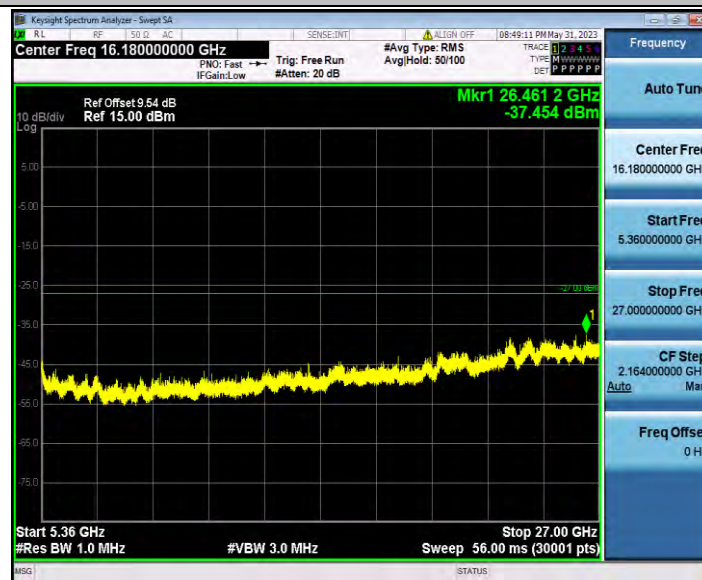
11N20SISO_Ant1_5180_30~5140



11N20SISO_Ant1_5200_5360~40000



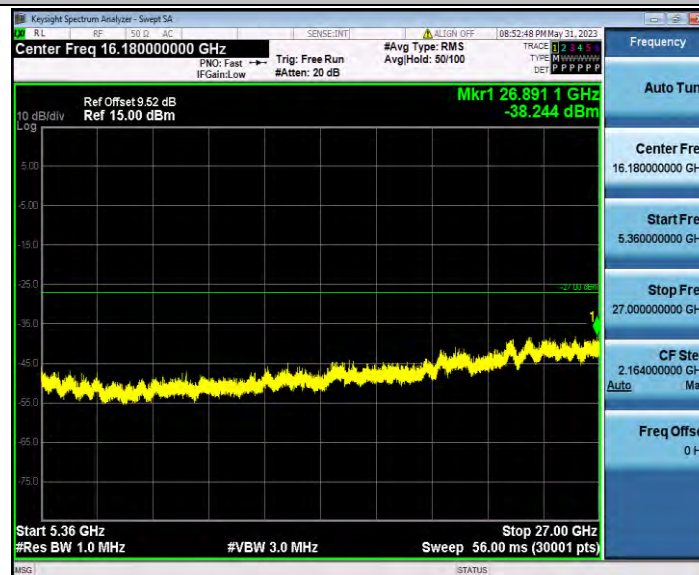
11N20SISO_Ant1_5240_30~5140



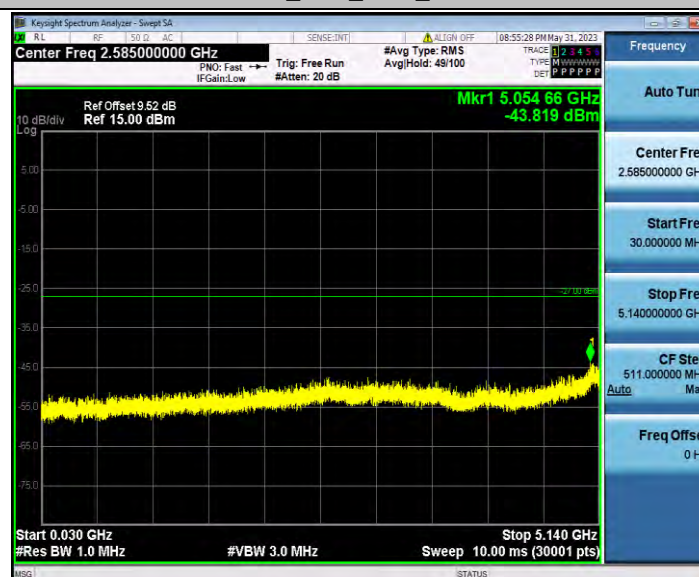
11N20SISO_Ant1_5240_5360~40000



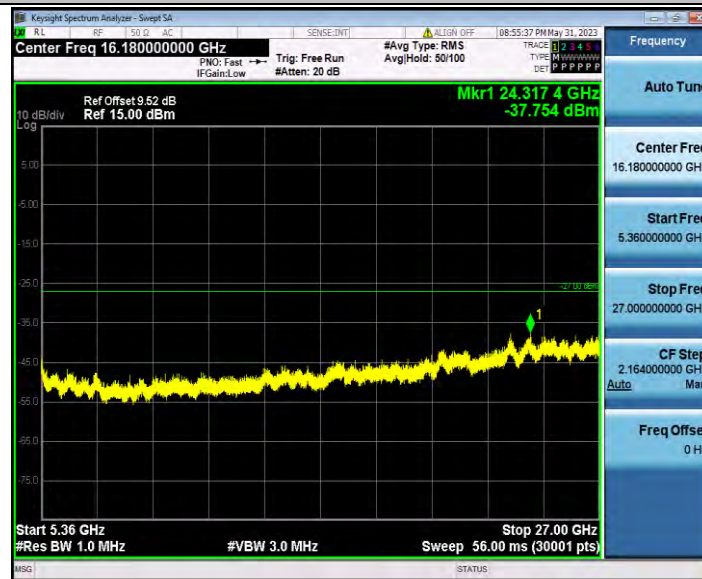
11N40SISO_Ant1_5190_30~5140



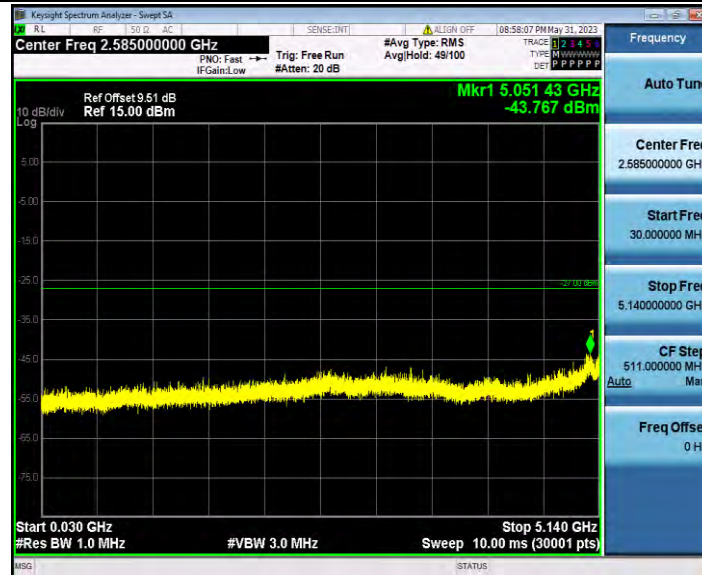
11N40SISO_Ant1_5190_5360~40000



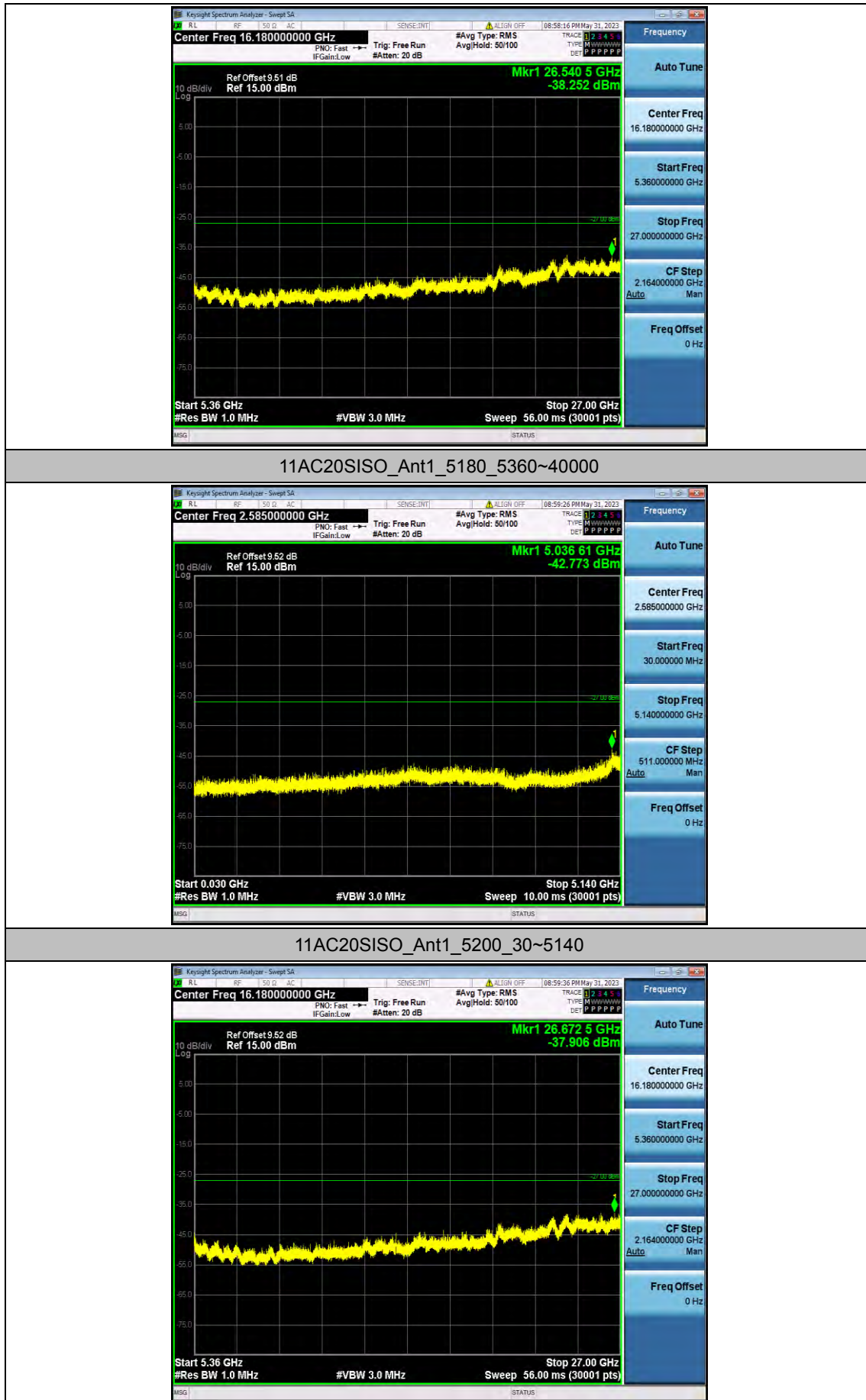
11N40SISO_Ant1_5230_30~5140



11N40SISO_Ant1_5230_5360~40000



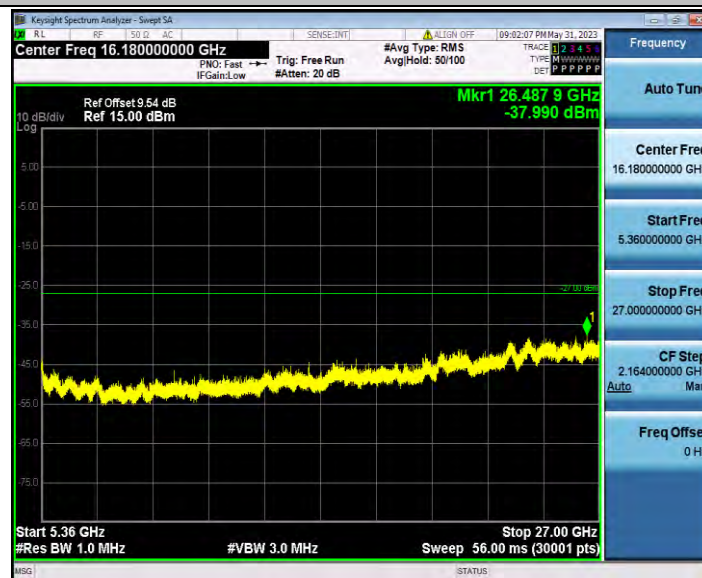
11AC20SISO_Ant1_5180_30~5140



11AC20SISO_Ant1_5200_5360~40000



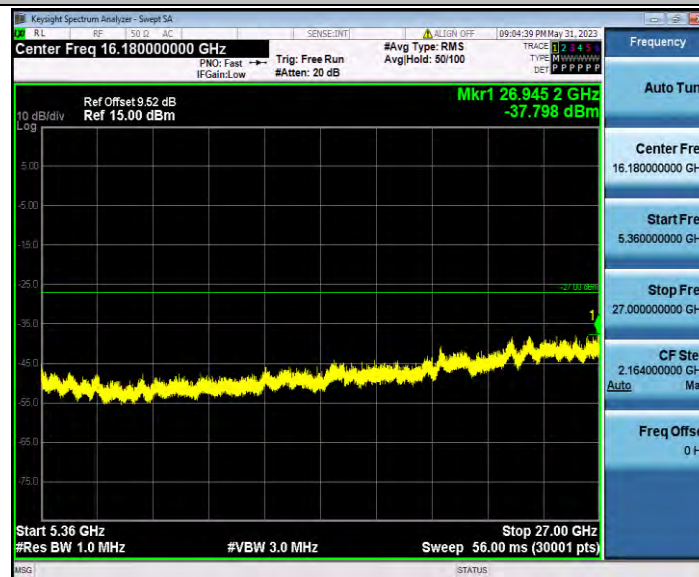
11AC20SISO_Ant1_5240_30~5140



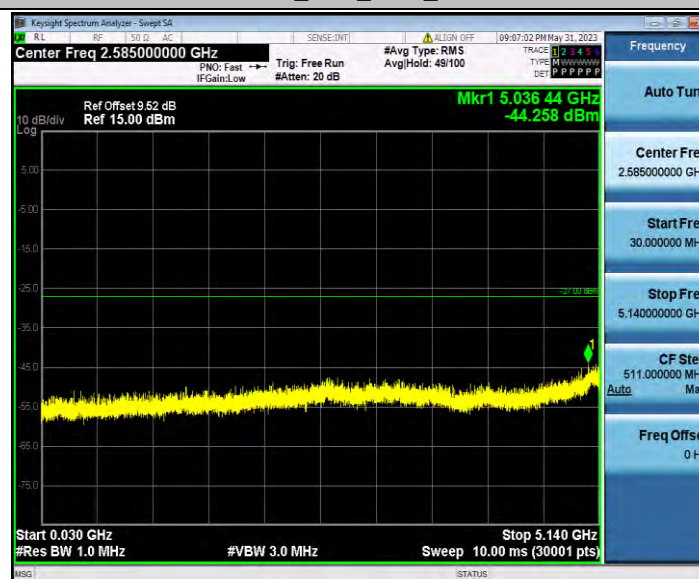
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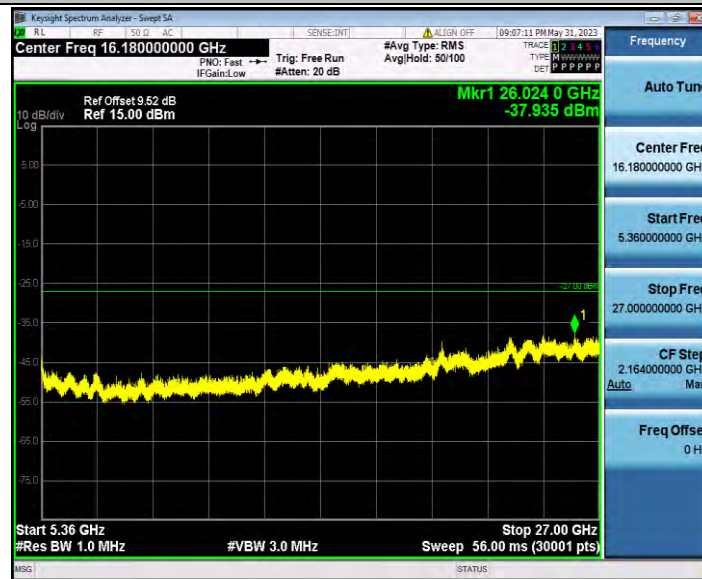
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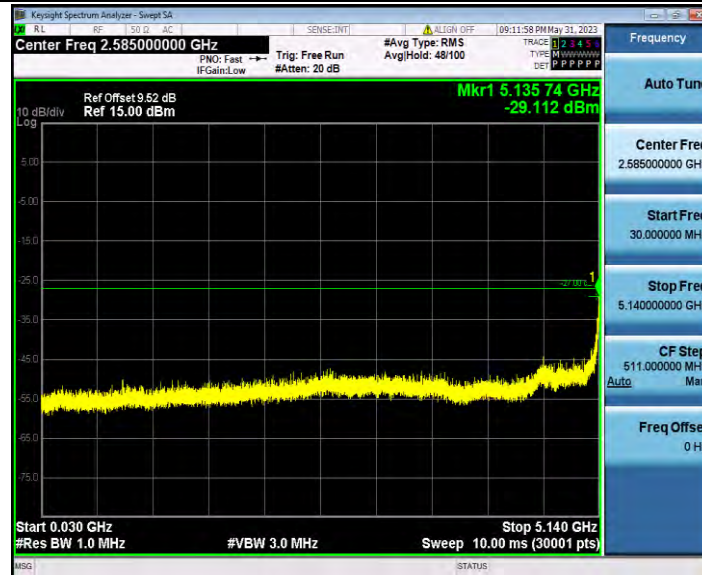
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11AC40SISO_Ant1_5230_30~5140



11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_30~5140

