

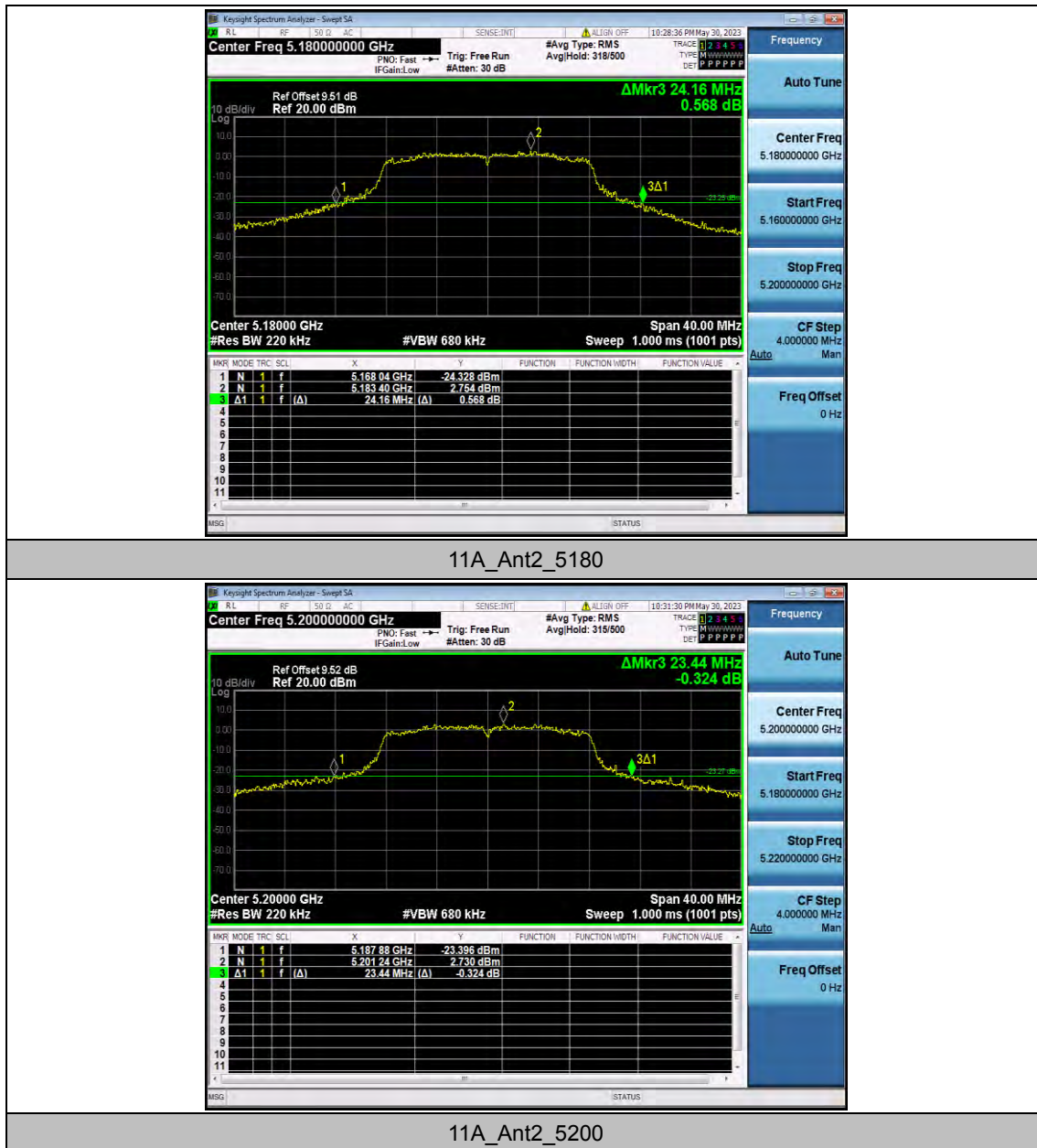
Case No. : <u>GTS20230508024-1-20</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.5.29</u>	Test Engineer: <u>Jenny zeng</u>

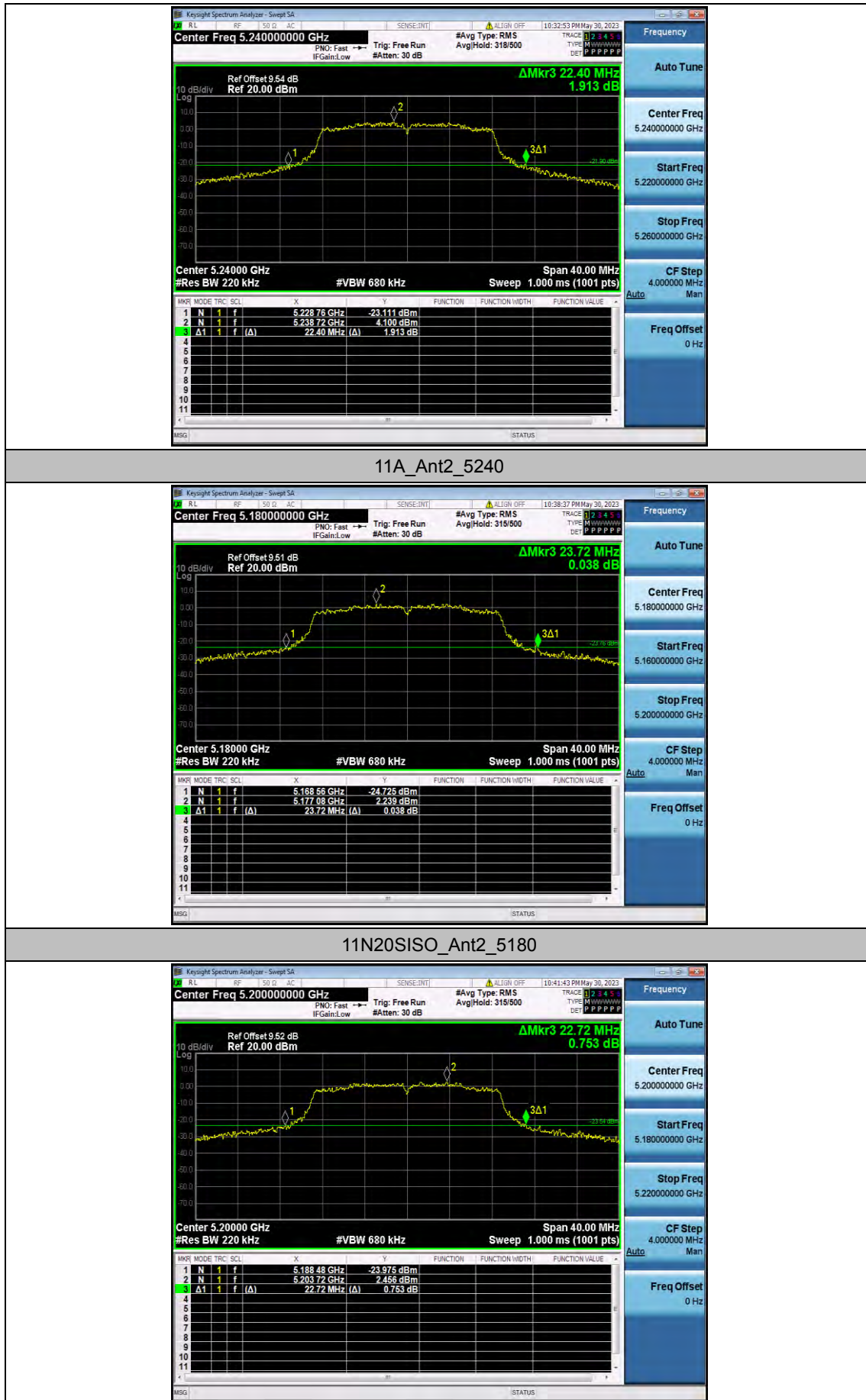
Appendix D.1: Emission Bandwidth

Test Result

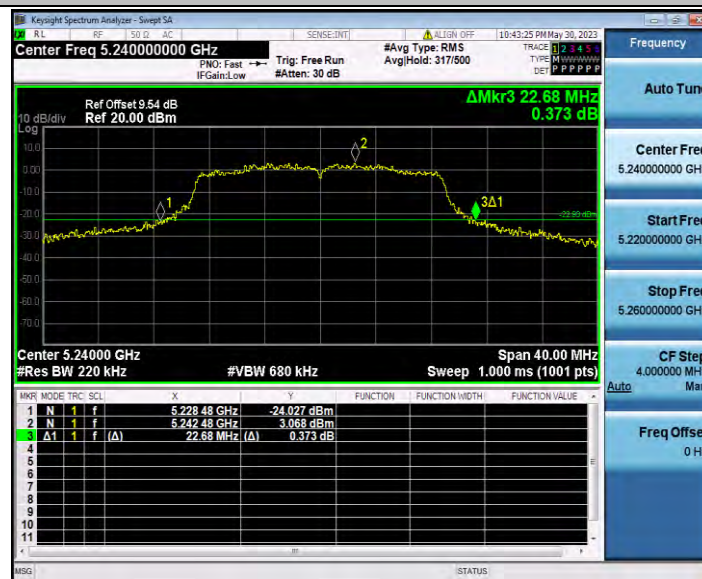
Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	24.160	5168.040	5192.200	---	---
		5200	23.440	5187.880	5211.320	---	---
		5240	22.400	5228.760	5251.160	---	---
11N20SISO	Ant2	5180	23.720	5168.560	5192.280	---	---
		5200	22.720	5188.480	5211.200	---	---
		5240	22.680	5228.480	5251.160	---	---
11N40SISO	Ant2	5190	48.480	5162.080	5210.560	---	---
		5230	41.440	5209.280	5250.720	---	---
11AC20SISO	Ant2	5180	23.200	5168.840	5192.040	---	---
		5200	22.880	5188.320	5211.200	---	---
		5240	22.160	5228.840	5251.000	---	---
11AC40SISO	Ant2	5190	42.640	5168.560	5211.200	---	---
		5230	40.880	5209.440	5250.320	---	---
11AC80SISO	Ant2	5210	122.880	5143.920	5266.800	---	---

Test Graphs





11N20SISO_Ant2_5200

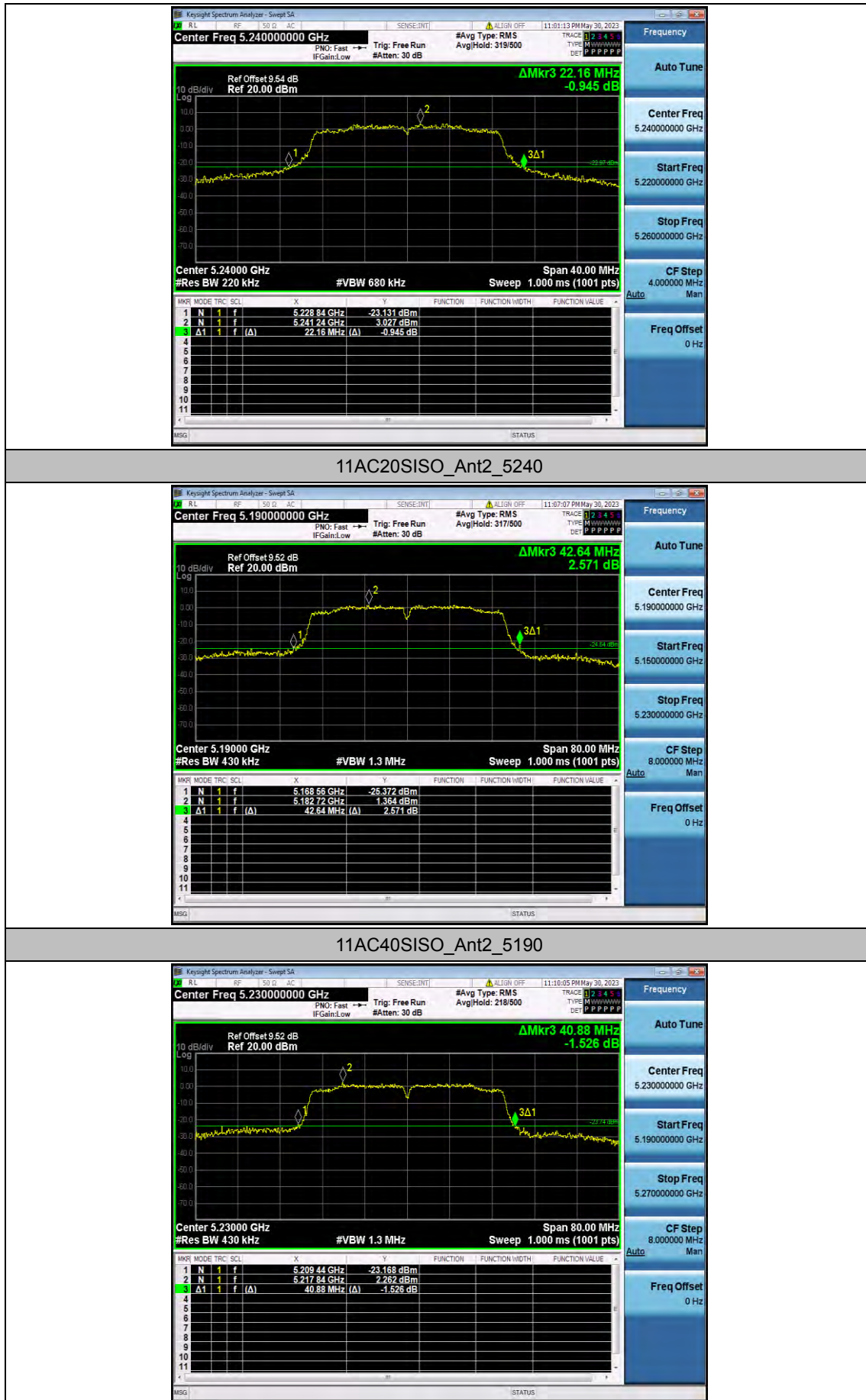


11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



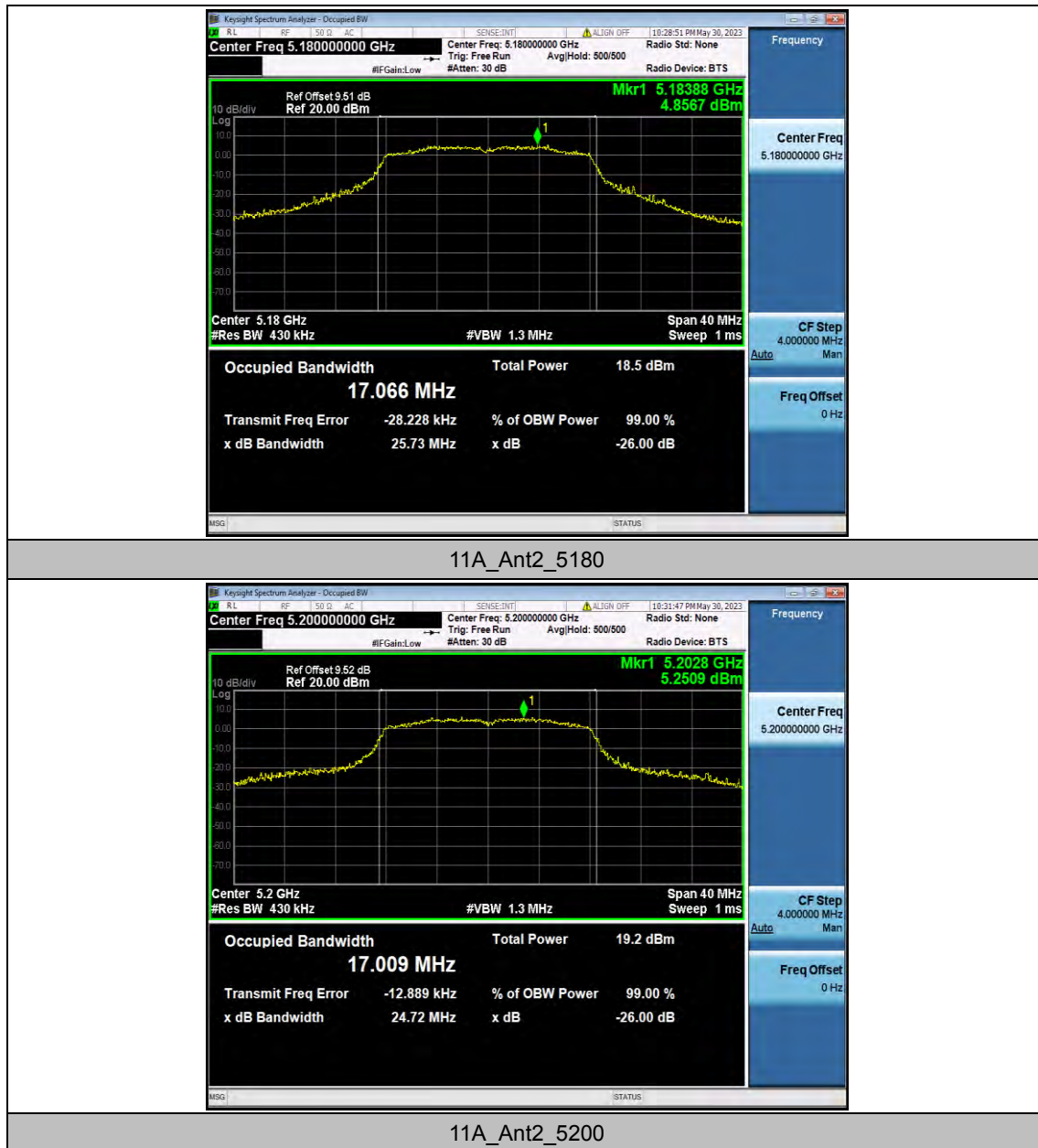


Appendix D.2: Occupied channel bandwidth

Test Result

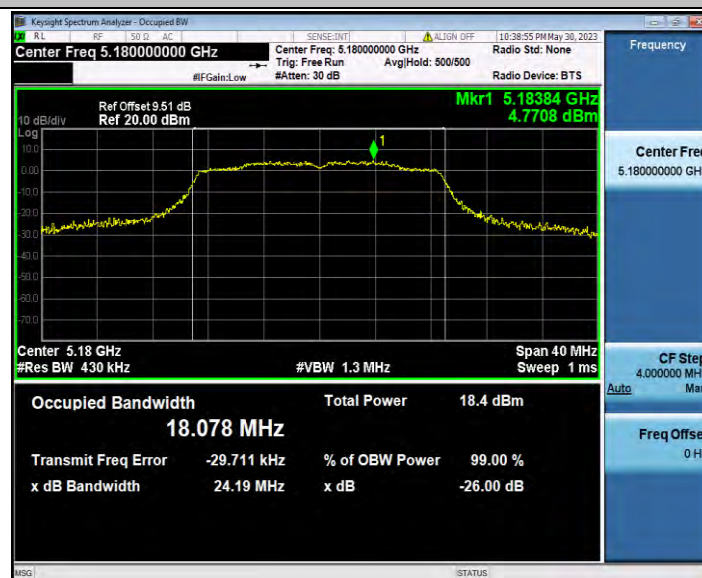
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	17.066	5171.439	5188.505	---	---
		5200	17.009	5191.483	5208.492	---	---
		5240	16.933	5231.512	5248.445	---	---
11N20SISO	Ant2	5180	18.078	5170.931	5189.009	---	---
		5200	18.147	5190.909	5209.056	---	---
		5240	18.088	5230.907	5248.995	---	---
11N40SISO	Ant2	5190	36.298	5171.888	5208.186	---	---
		5230	36.499	5211.664	5248.163	---	---
11AC20SISO	Ant2	5180	18.142	5170.941	5189.083	---	---
		5200	18.108	5190.914	5209.022	---	---
		5240	18.066	5230.945	5249.011	---	---
11AC40SISO	Ant2	5190	36.400	5171.752	5208.152	---	---
		5230	36.371	5211.780	5248.151	---	---
11AC80SISO	Ant2	5210	75.704	5172.183	5247.887	---	---

Test Graphs

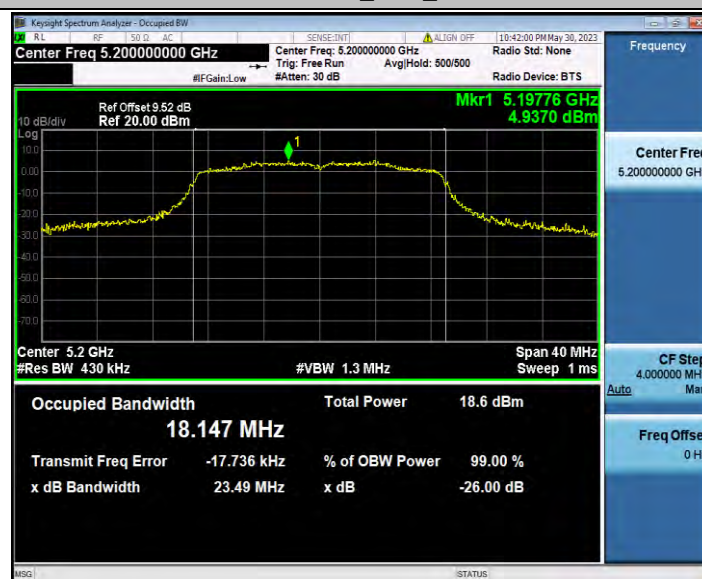




11A_Ant2_5240



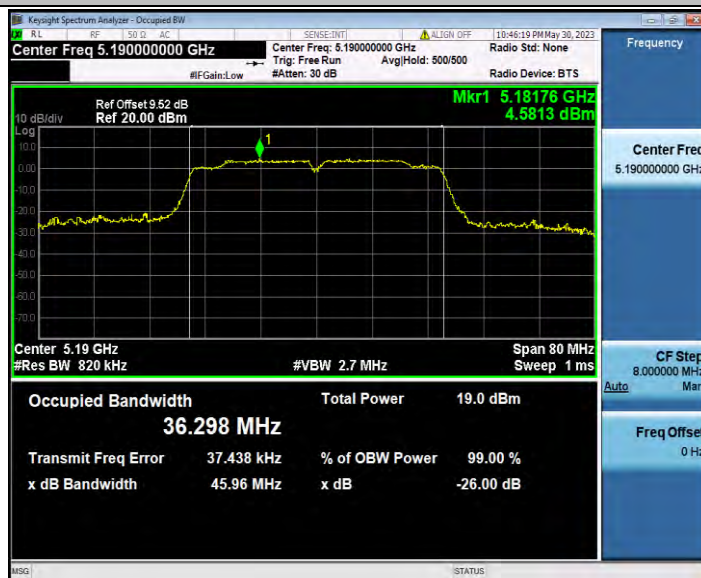
11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



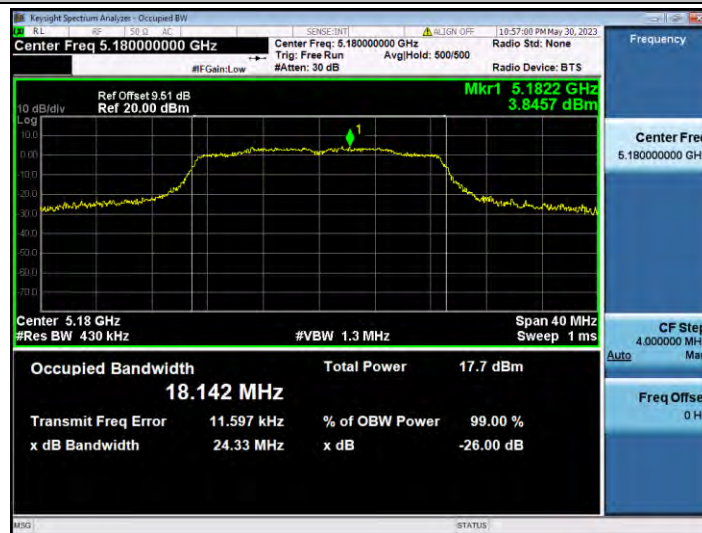
11N20SISO_Ant2_5240



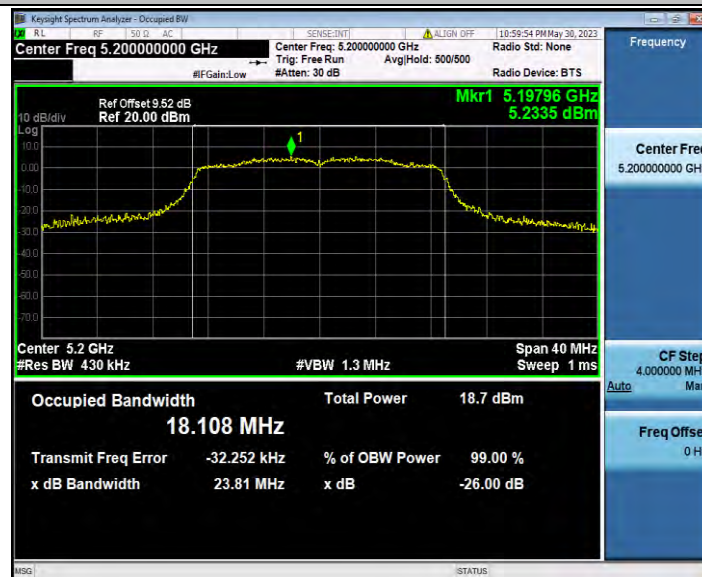
11N40SISO_Ant2_5190



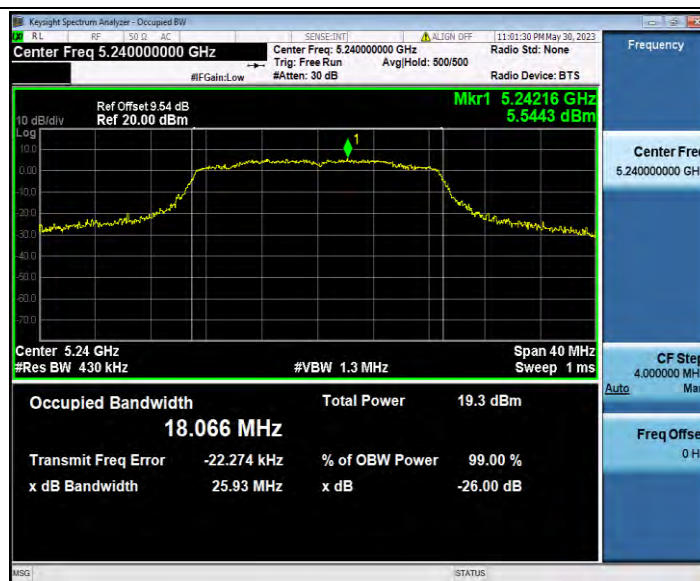
11N40SISO_Ant2_5230



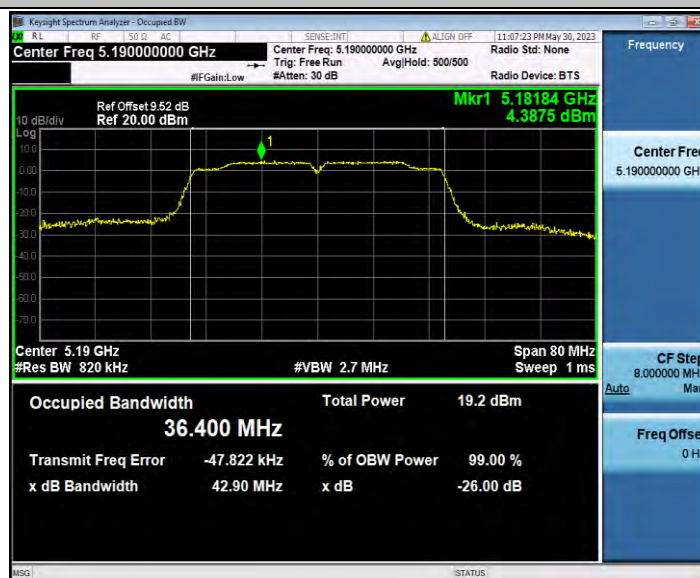
11AC20SISO_Ant2_5180



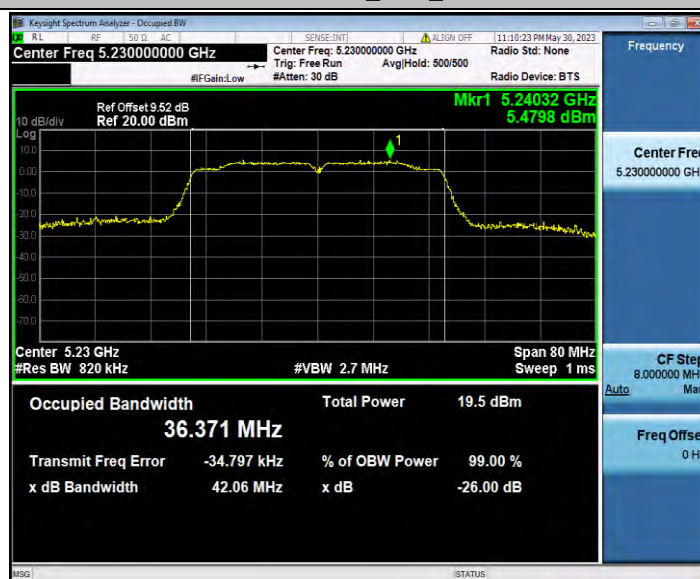
11AC20SISO_Ant2_5200

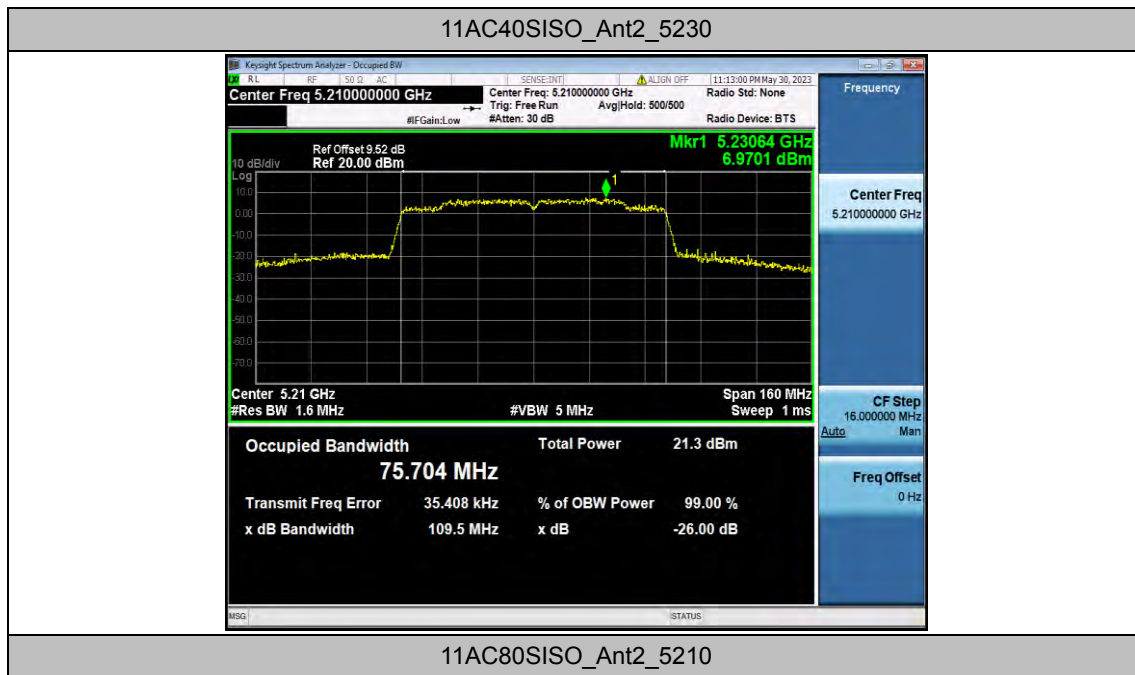


11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



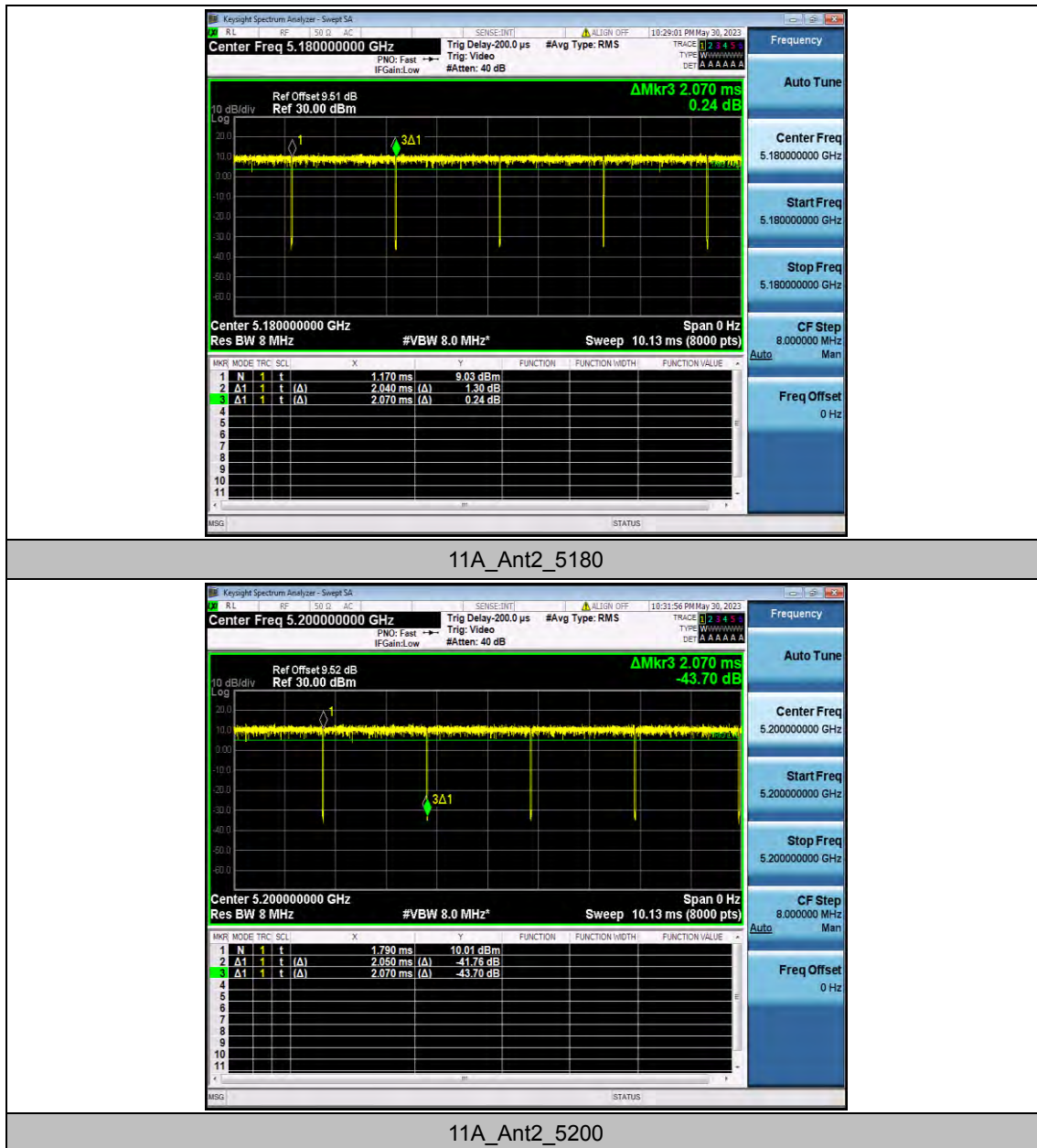


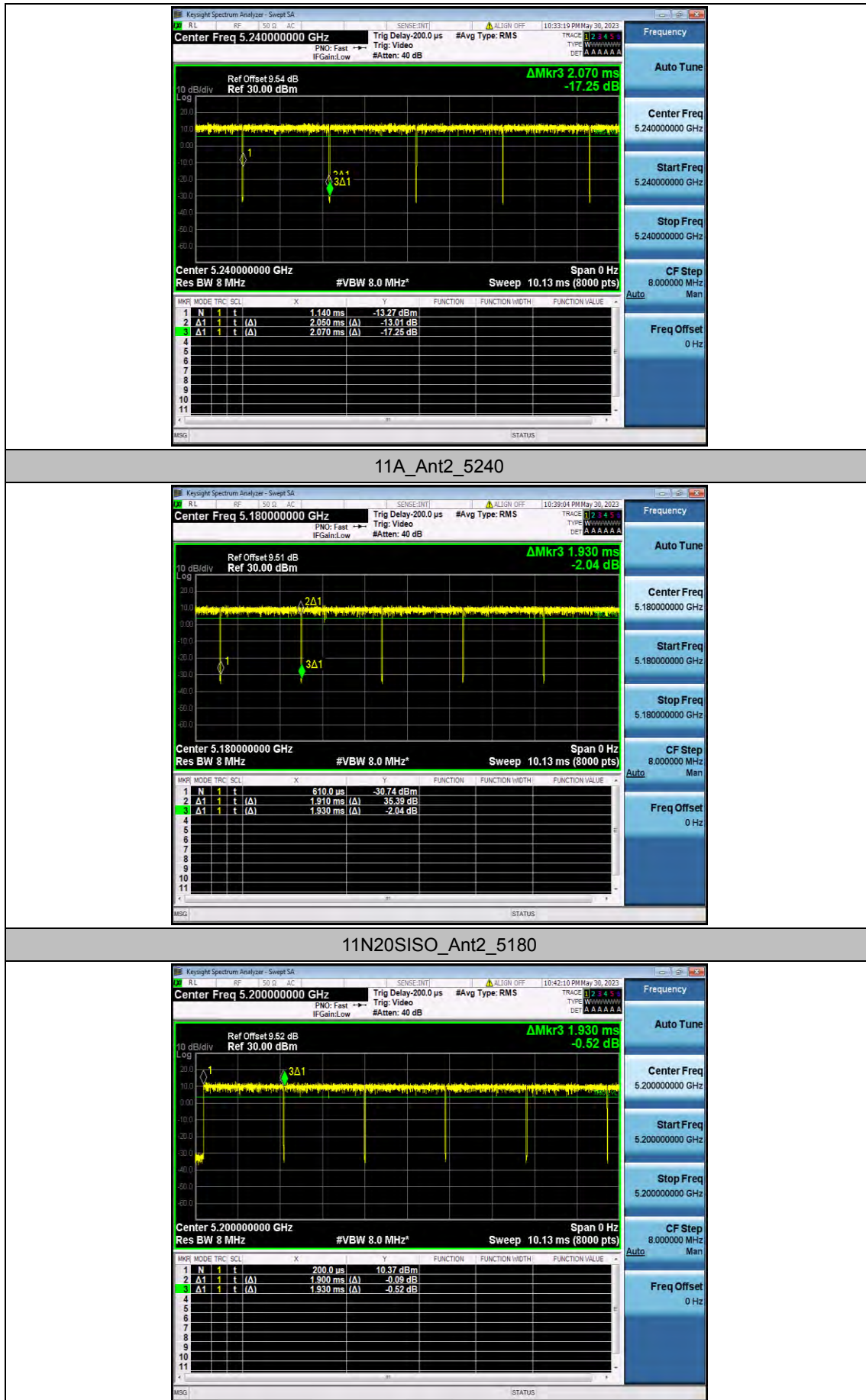
Appendix D.3: Duty Cycle

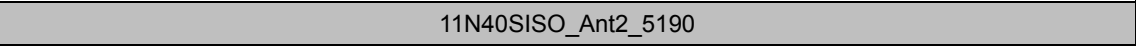
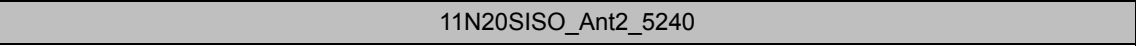
Test Result

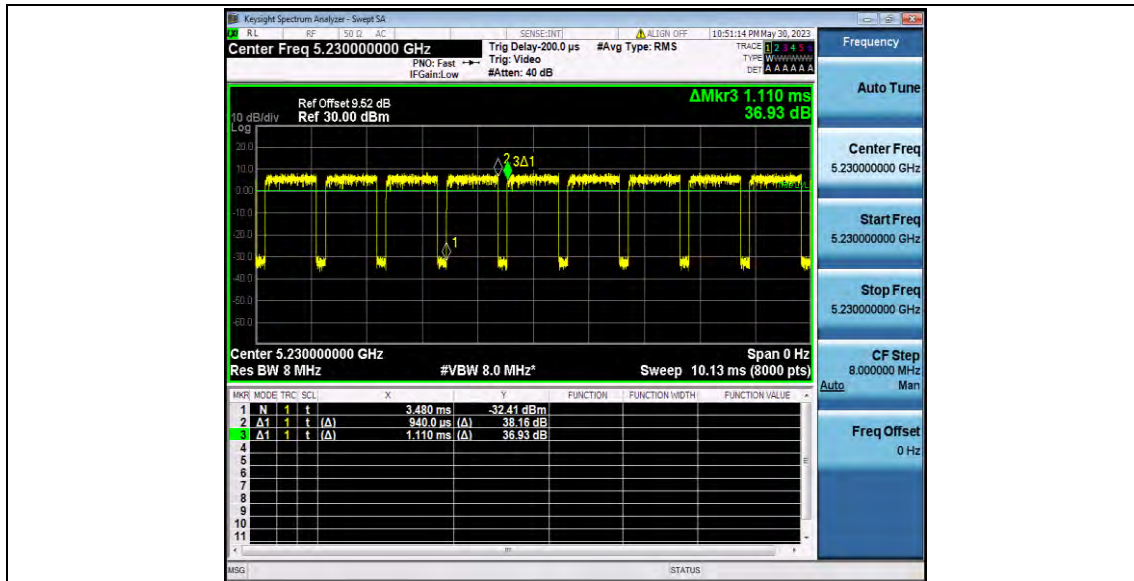
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5180	2.04	2.07	98.55
		5200	2.05	2.07	99.03
		5240	2.05	2.07	99.03
11N20SISO	Ant2	5180	1.91	1.93	98.96
		5200	1.90	1.93	98.45
		5240	1.91	1.93	98.96
11N40SISO	Ant2	5190	0.94	1.11	84.68
		5230	0.94	1.11	84.68
11AC20SISO	Ant2	5180	1.92	1.94	98.97
		5200	1.91	1.94	98.45
		5240	1.92	1.94	98.97
11AC40SISO	Ant2	5190	0.94	1.11	84.68
		5230	0.95	1.12	84.82
11AC80SISO	Ant2	5210	0.46	0.54	85.19

Test Graphs

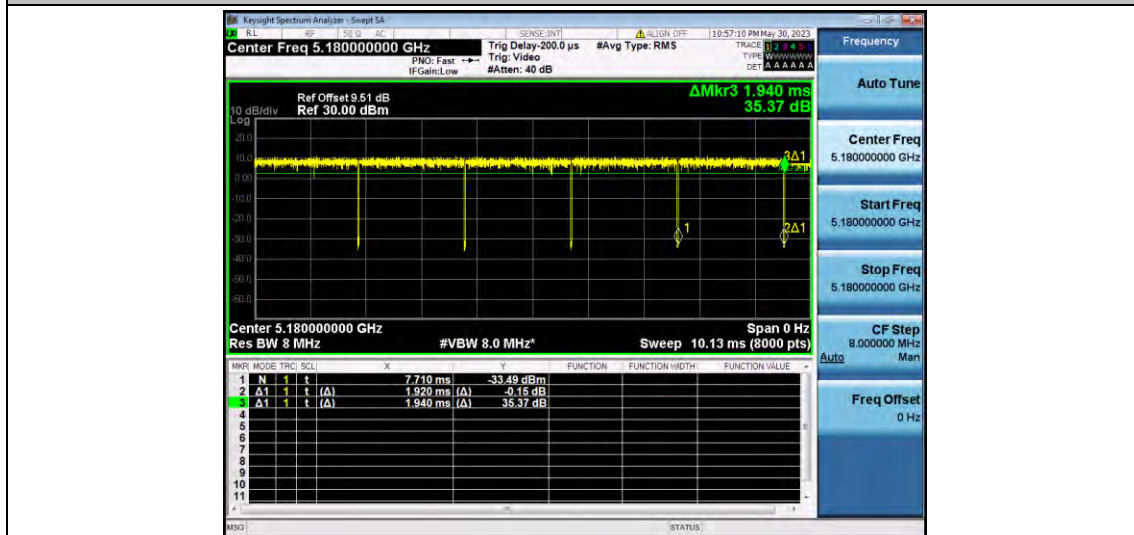




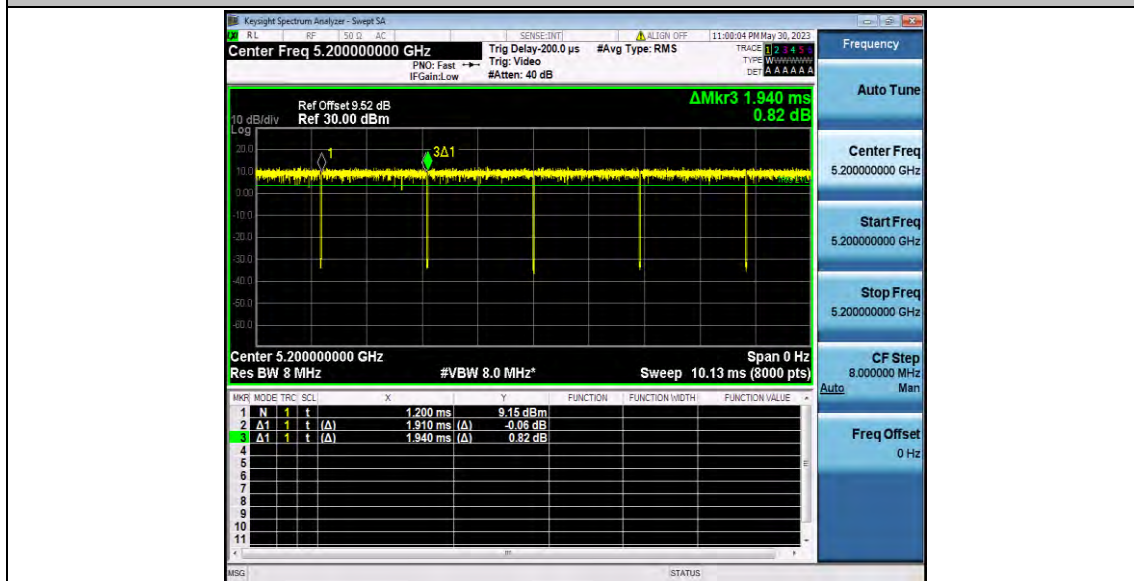




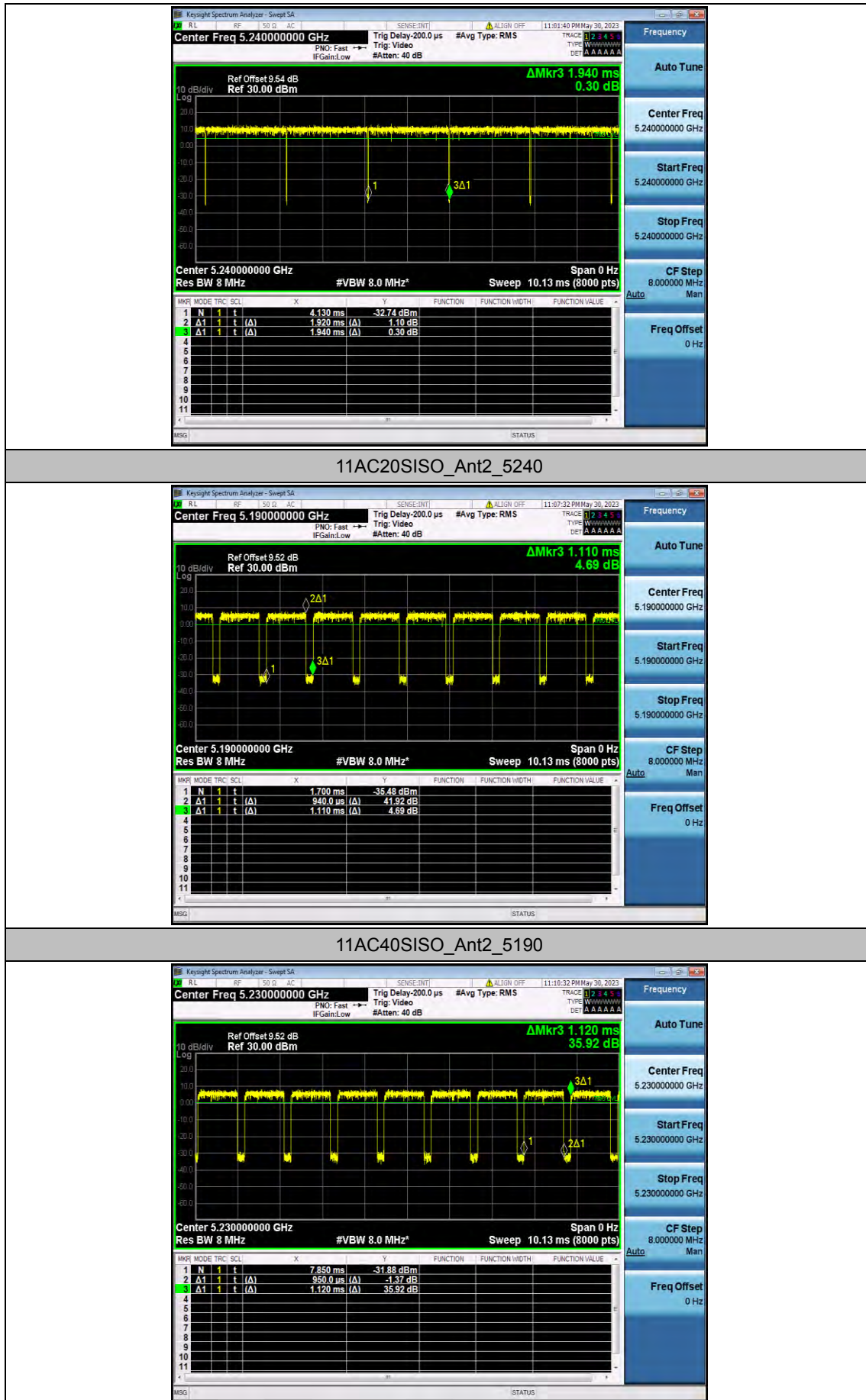
11N40SISO_Ant2_5230

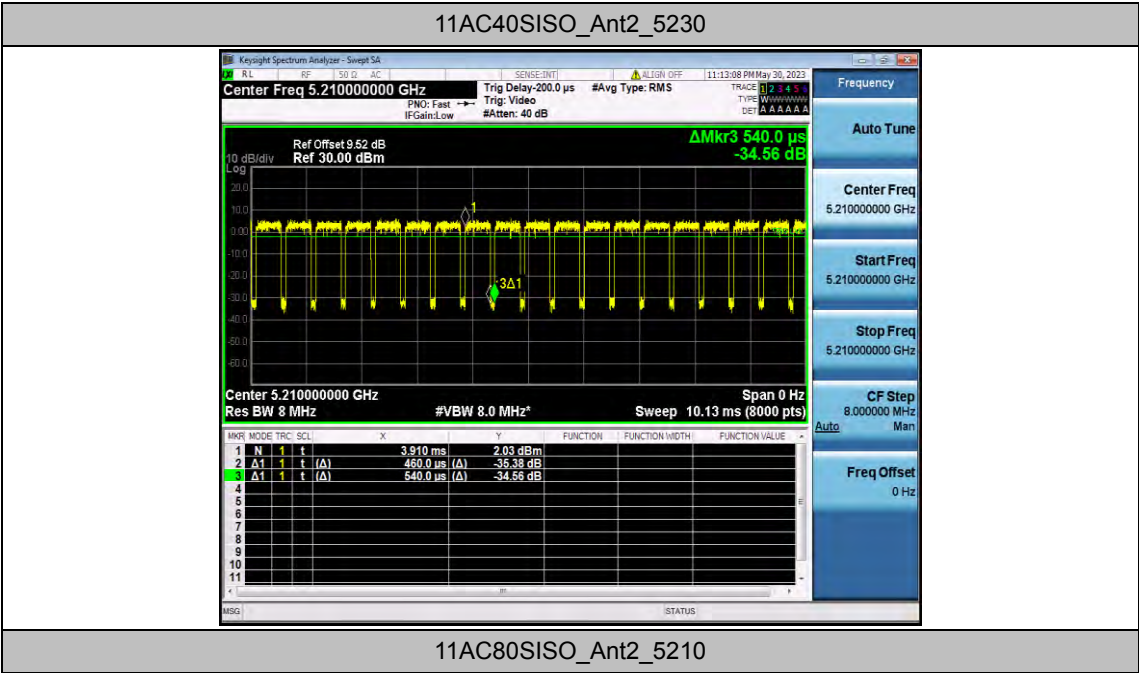


11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200





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	Ant2	5180	11.90	98.55	0.06	11.96	≤23.98	PASS
		5200	12.87	99.03	0.04	12.91	≤23.98	PASS
		5240	13.36	99.03	0.04	13.40	≤23.98	PASS
11N20SISO	Ant2	5180	11.50	98.96	0.05	11.55	≤23.98	PASS
		5200	11.77	98.45	0.07	11.84	≤23.98	PASS
		5240	12.34	98.96	0.05	12.39	≤23.98	PASS
11N40SISO	Ant2	5190	11.01	84.68	0.72	11.73	≤23.98	PASS
		5230	11.24	84.68	0.72	11.96	≤23.98	PASS
11AC20SISO	Ant2	5180	11.26	98.97	0.04	11.30	≤23.98	PASS
		5200	11.87	98.45	0.07	11.94	≤23.98	PASS
		5240	12.46	98.97	0.04	12.50	≤23.98	PASS
11AC40SISO	Ant2	5190	11.01	84.68	0.72	11.73	≤23.98	PASS
		5230	11.34	84.82	0.72	12.06	≤23.98	PASS
11AC80SISO	Ant2	5210	11.83	85.19	0.70	12.53	≤23.98	PASS

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

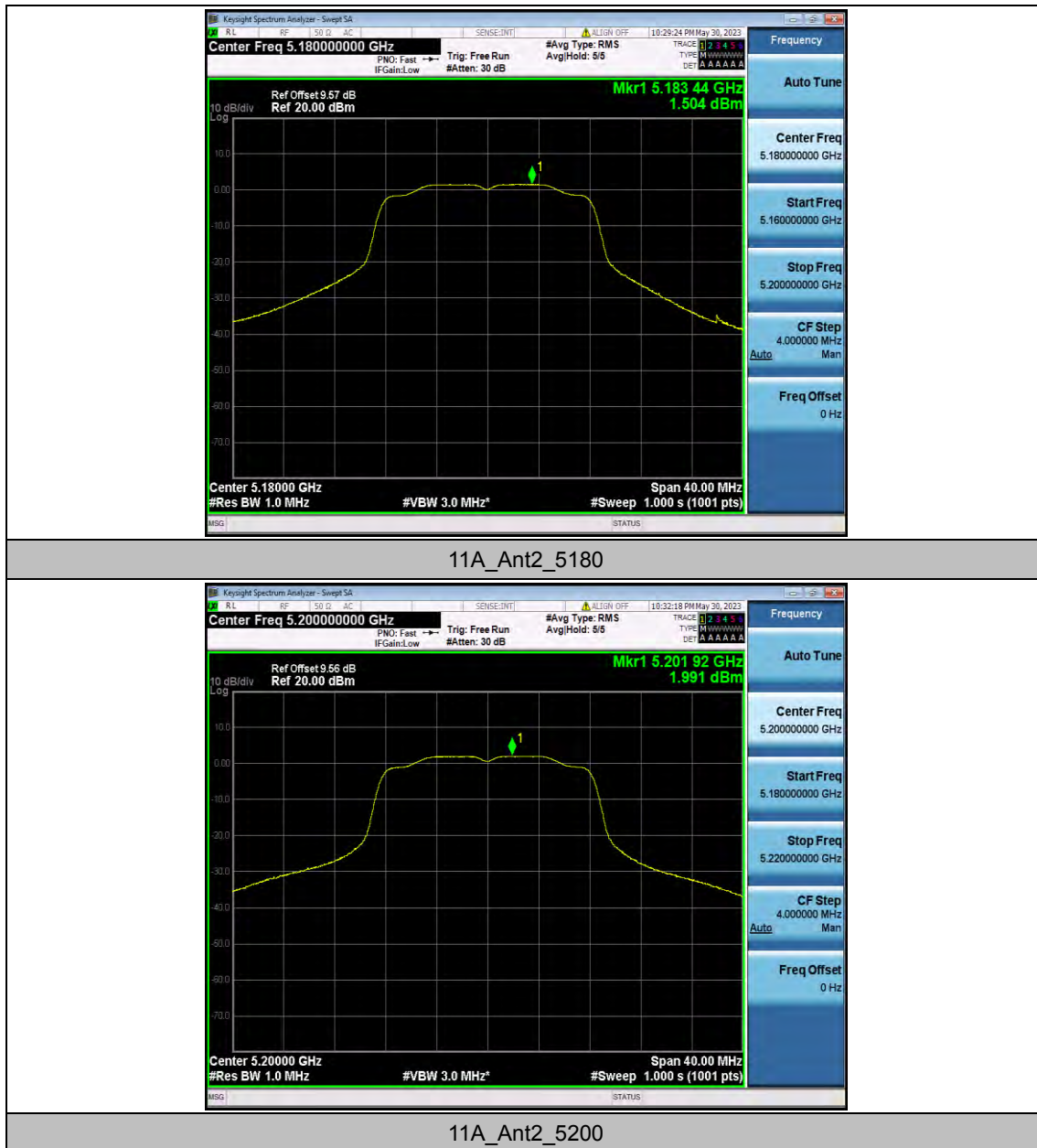
Appendix D.5: Maximum power spectral density

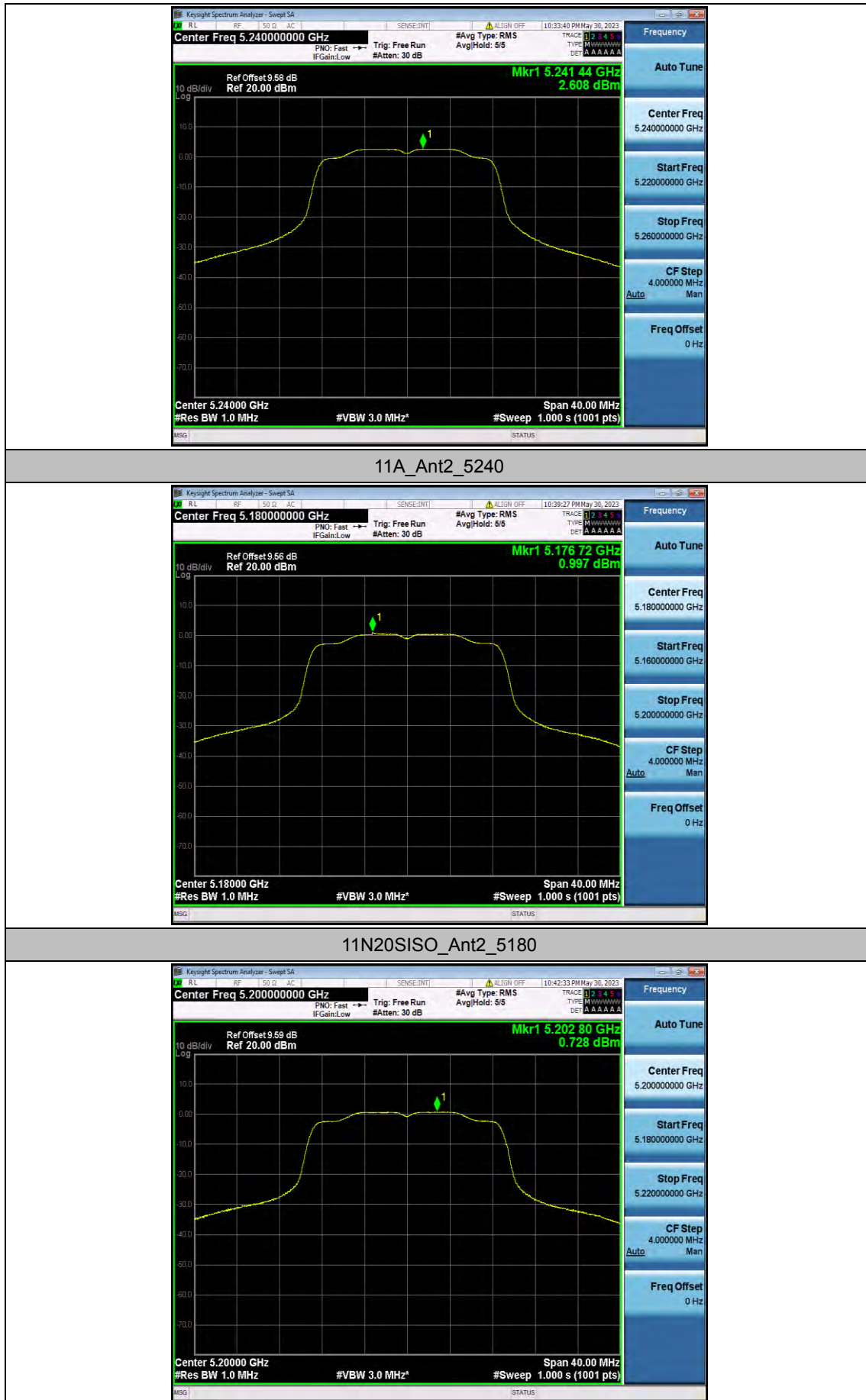
Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5180	1.5	≤11.00	PASS
		5200	1.99	≤11.00	PASS
		5240	2.61	≤11.00	PASS
11N20SISO	Ant2	5180	1	≤11.00	PASS
		5200	0.73	≤11.00	PASS
		5240	1.36	≤11.00	PASS
11N40SISO	Ant2	5190	-2.19	≤11.00	PASS
		5230	-1.98	≤11.00	PASS
11AC20SISO	Ant2	5180	0.23	≤11.00	PASS
		5200	0.74	≤11.00	PASS
		5240	1.36	≤11.00	PASS
11AC40SISO	Ant2	5190	-2.18	≤11.00	PASS
		5230	-1.87	≤11.00	PASS
11AC80SISO	Ant2	5210	-4.54	≤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_Ant2_5200



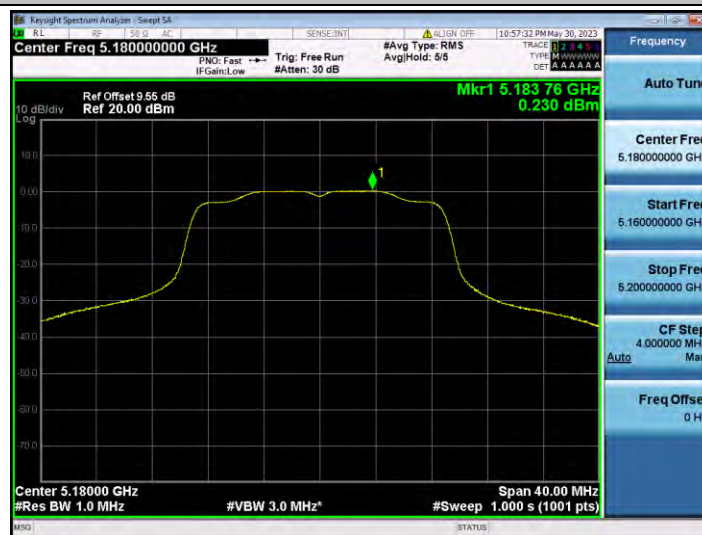
11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



11N40SISO_Ant2_5230

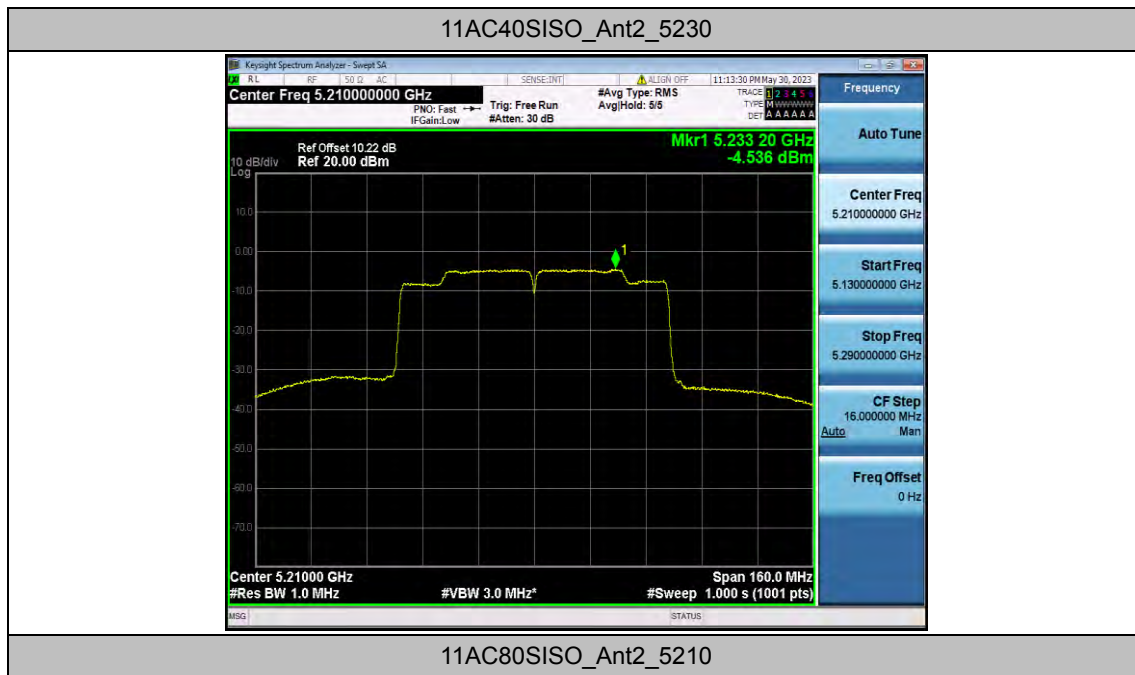


11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



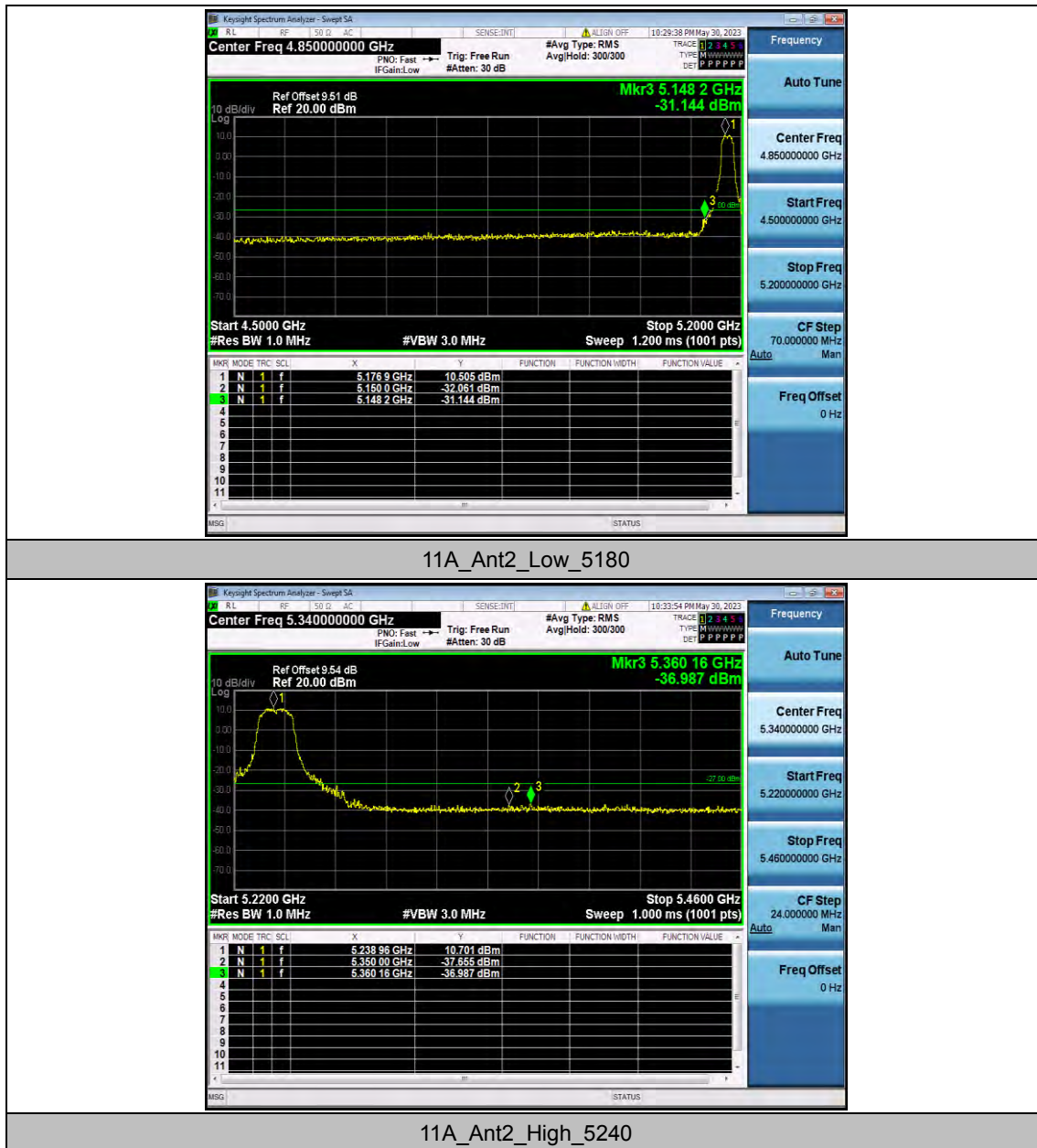


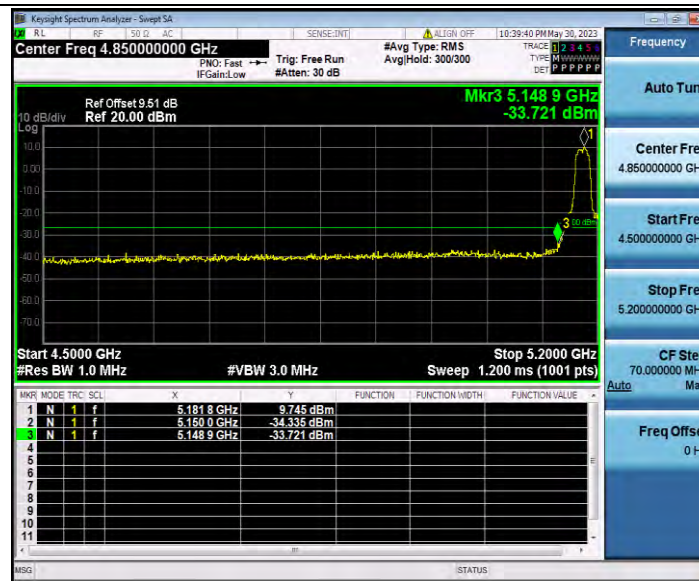
Appendix D.6: Band edge measurements

Test Result B1

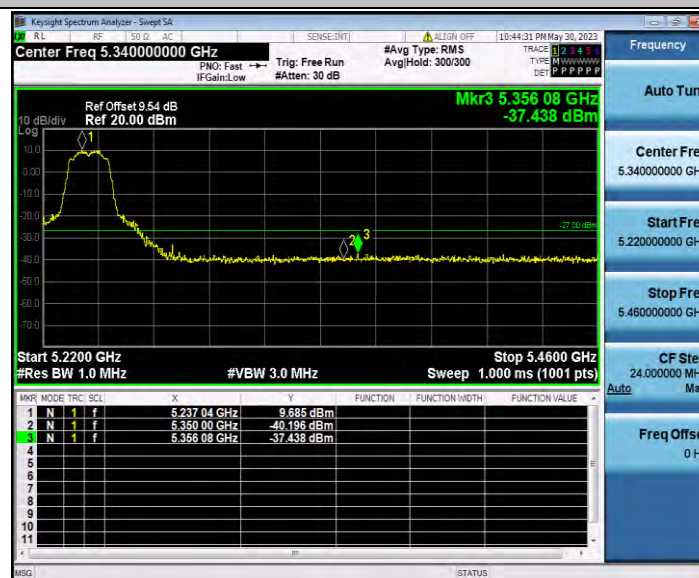
Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5180	-31.14	≤ -27	PASS
		High	5240	-36.99	≤ -27	PASS
11N20SISO	Ant2	Low	5180	-33.72	≤ -27	PASS
		High	5240	-37.44	≤ -27	PASS
11N40SISO	Ant2	Low	5190	-37.73	≤ -27	PASS
		High	5230	-37.61	≤ -27	PASS
11AC20SISO	Ant2	Low	5180	-34.25	≤ -27	PASS
		High	5240	-37.87	≤ -27	PASS
11AC40SISO	Ant2	Low	5190	-37.86	≤ -27	PASS
		High	5230	-37.84	≤ -27	PASS
11AC80SISO	Ant2	Low	5210	-32.43	≤ -27	PASS
		High	5210	-37.09	≤ -27	PASS

Test Graphs B1

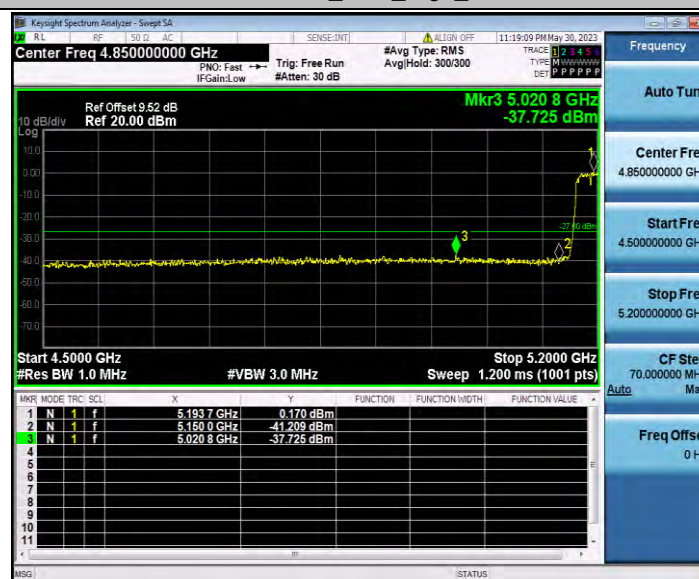




11N20SISO_Ant2_Low_5180



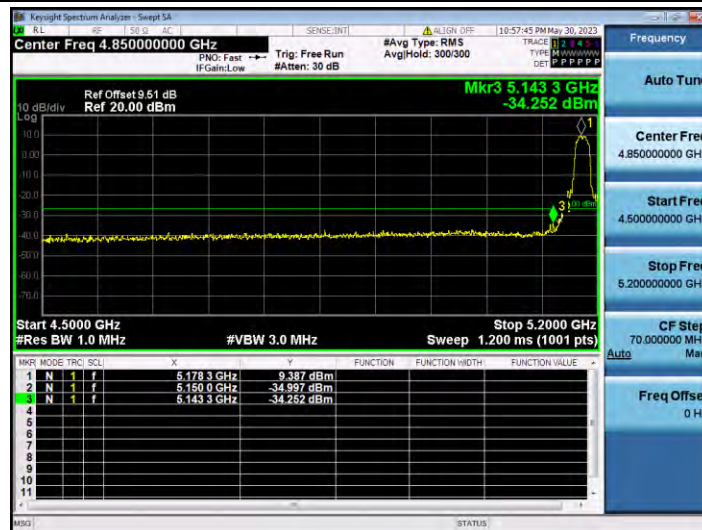
11N20SISO_Ant2_High_5240



11N40SISO_Ant2_Low_5190



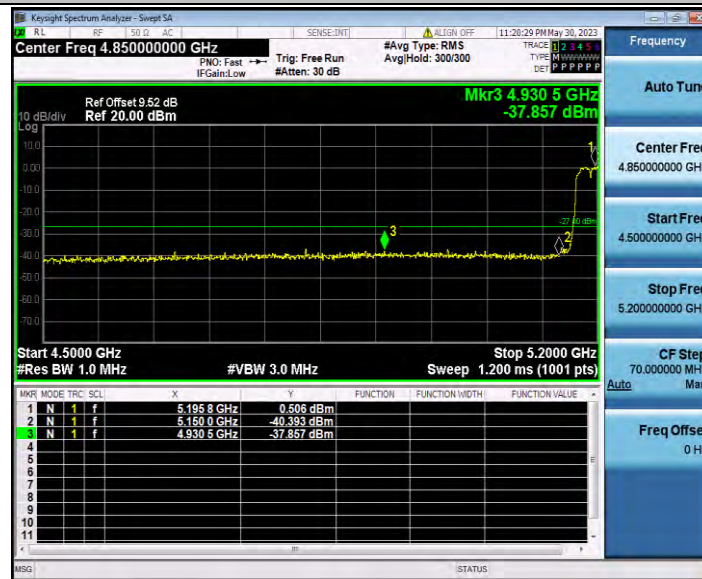
11N40SISO_Ant2_High_5230



11AC20SISO_Ant2_Low_5180



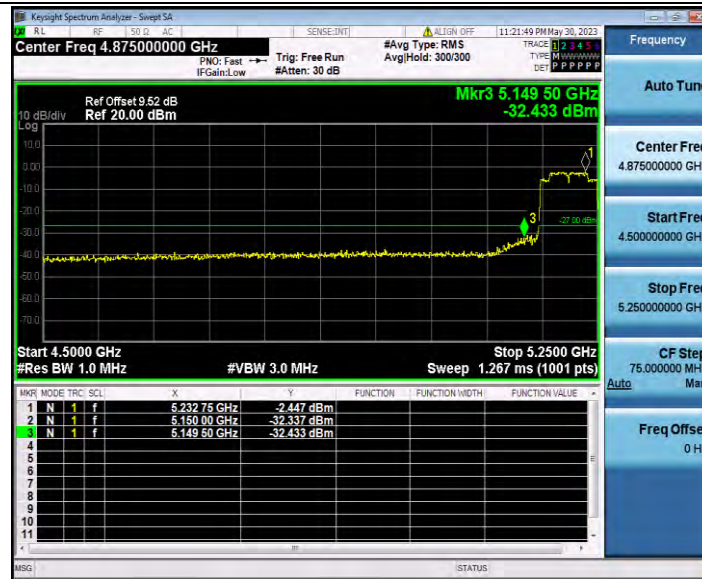
11AC20SISO_Ant2_High_5240



11AC40SISO_Ant2_Low_5190



11AC40SISO_Ant2_High_5230



11AC80SISO_Ant2_Low_5210



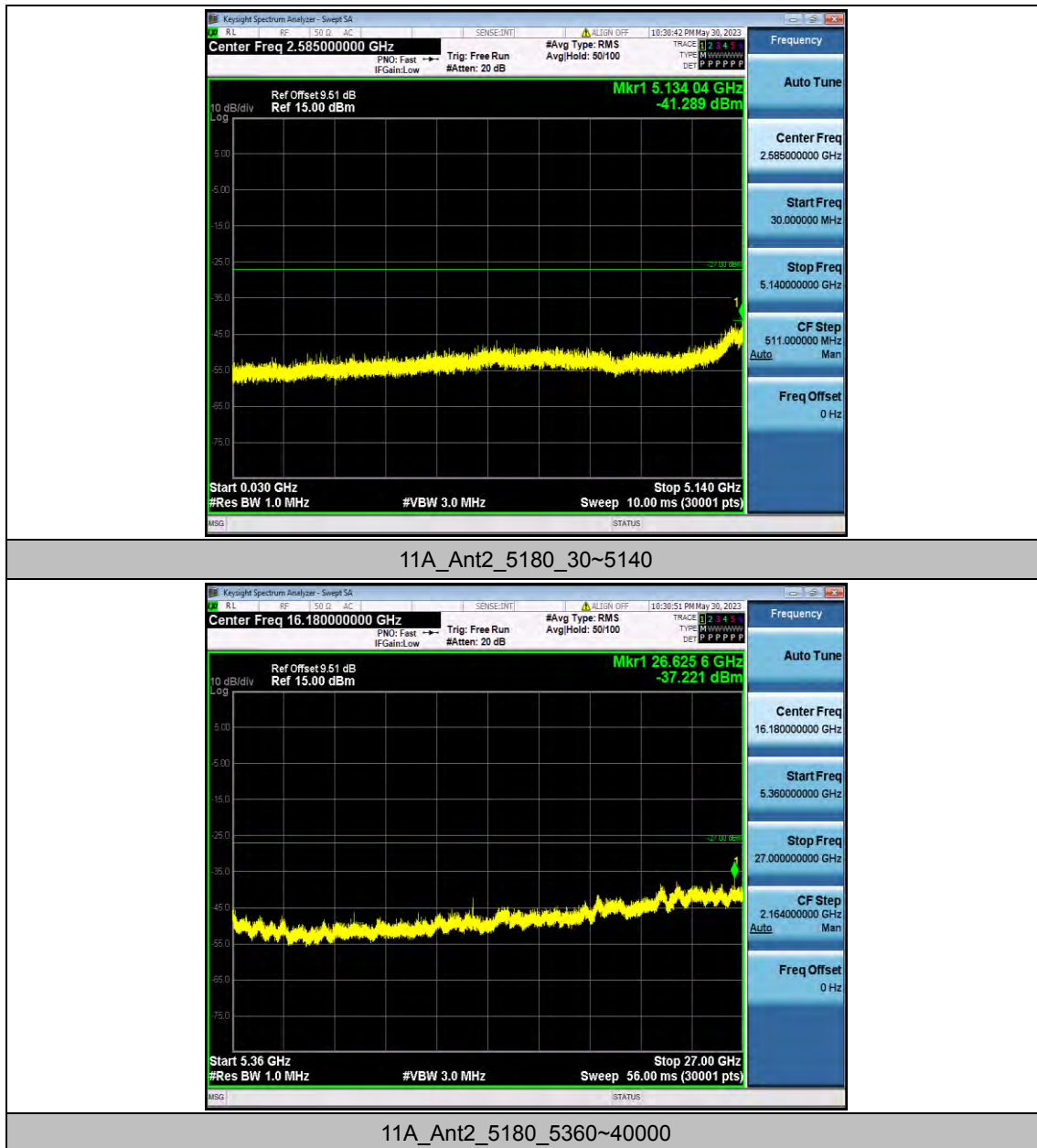
11AC80SISO_Ant2_High_5210

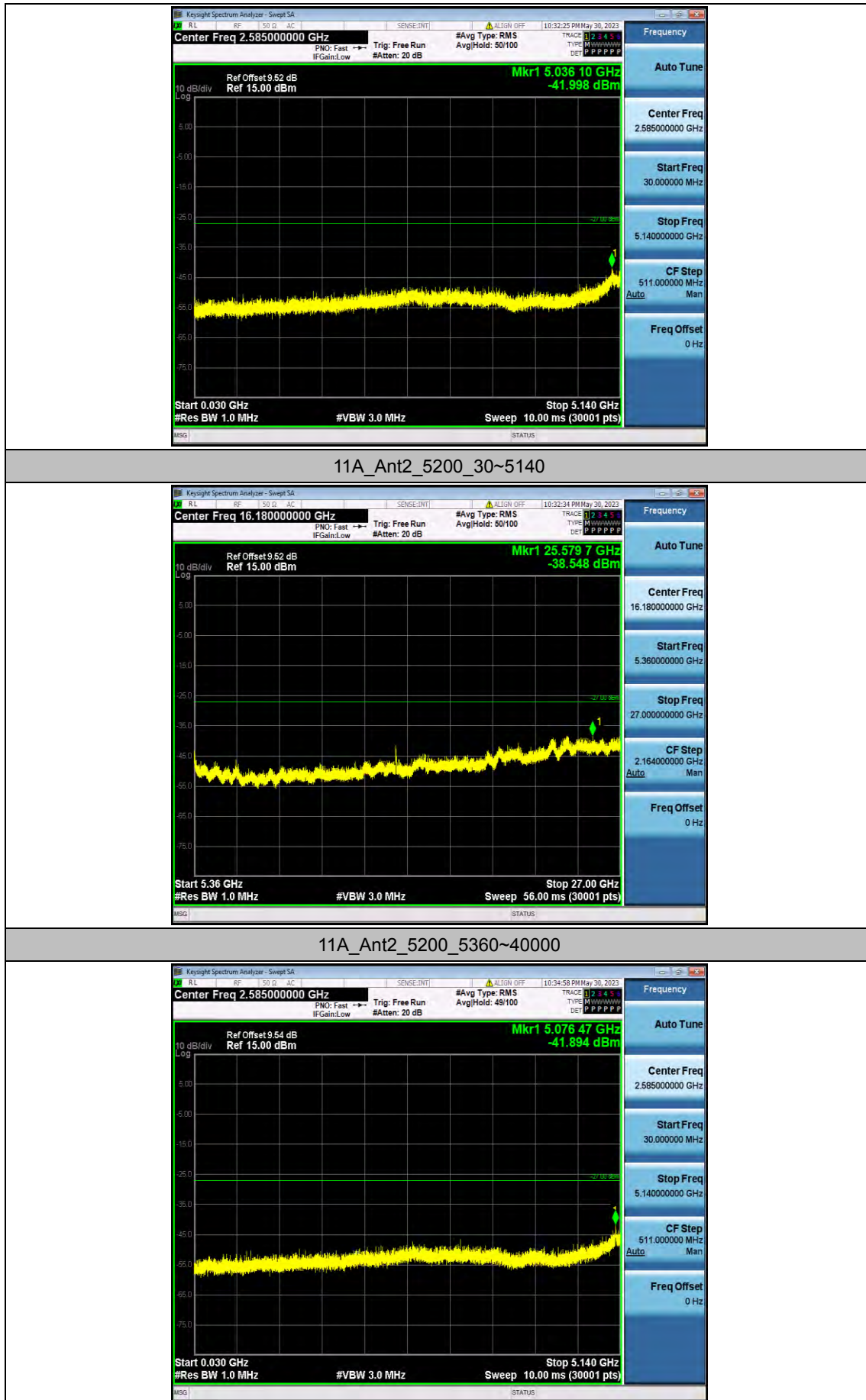
Appendix D.7: Conducted Spurious Emission

Test Result

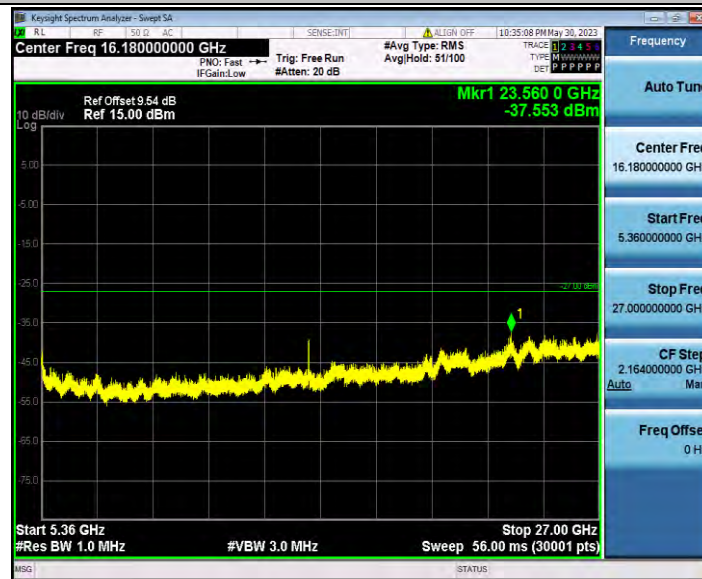
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	30~5140	5134.04	-41.29	≤-27	PASS
			5360~40000	26625.63	-37.22	≤-27	PASS
		5200	30~5140	5036.1	-42	≤-27	PASS
			5360~40000	25579.69	-38.55	≤-27	PASS
		5240	30~5140	5076.47	-41.89	≤-27	PASS
			5360~40000	23559.96	-37.55	≤-27	PASS
11N20SISO	Ant2	5180	30~5140	5138.98	-41.29	≤-27	PASS
			5360~40000	23601.08	-37.94	≤-27	PASS
		5200	30~5140	5042.4	-42.38	≤-27	PASS
			5360~40000	24318.8	-38.09	≤-27	PASS
		5240	30~5140	5087.37	-43.03	≤-27	PASS
			5360~40000	24256.77	-38.14	≤-27	PASS
11N40SISO	Ant2	5190	30~5140	5140	-33.75	≤-27	PASS
			5360~40000	24276.25	-37.03	≤-27	PASS
		5230	30~5140	5103.38	-44.17	≤-27	PASS
			5360~40000	26557.82	-38.1	≤-27	PASS
11AC20SISO	Ant2	5180	30~5140	5138.81	-39.92	≤-27	PASS
			5360~40000	26723.73	-37.87	≤-27	PASS
		5200	30~5140	5036.44	-42.44	≤-27	PASS
			5360~40000	26060.82	-37.49	≤-27	PASS
		5240	30~5140	5134.89	-44.23	≤-27	PASS
			5360~40000	25034.37	-38.46	≤-27	PASS
11AC40SISO	Ant2	5190	30~5140	5139.49	-36.48	≤-27	PASS
			5360~40000	26659.53	-37.89	≤-27	PASS
		5230	30~5140	5060.11	-43.94	≤-27	PASS
			5360~40000	24209.88	-37.9	≤-27	PASS
11AC80SISO	Ant2	5210	30~5140	5139.49	-26.05	≤-27	FAIL
			5360~40000	26044.23	-37.94	≤-27	PASS

Test Graphs

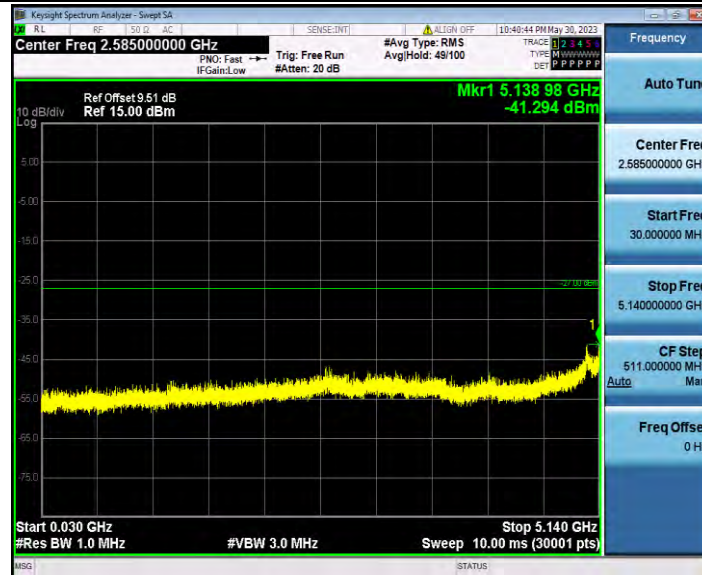




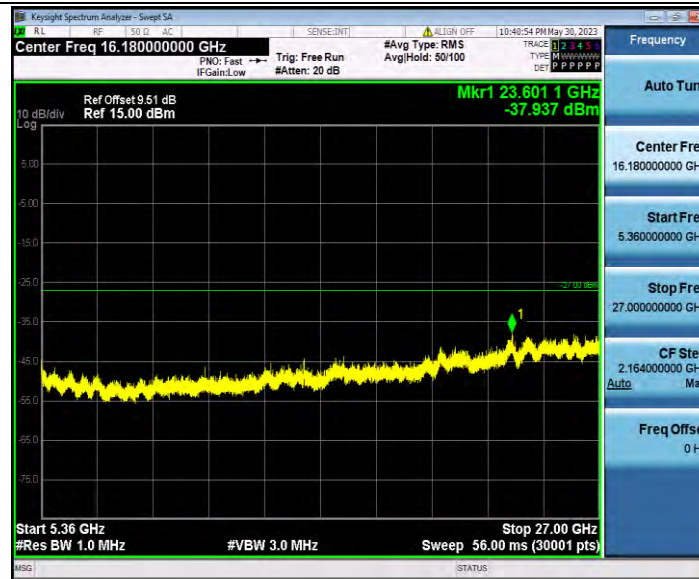
11A_Ant2_5240_30~5140



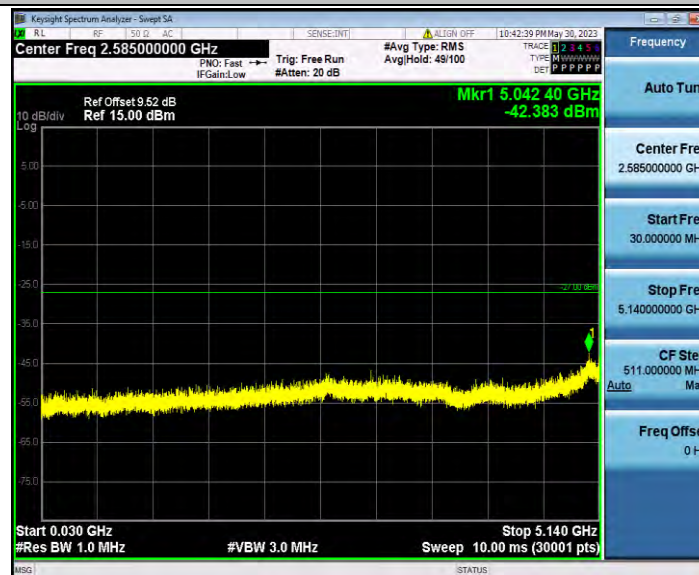
11A_Ant2_5240_5360~40000



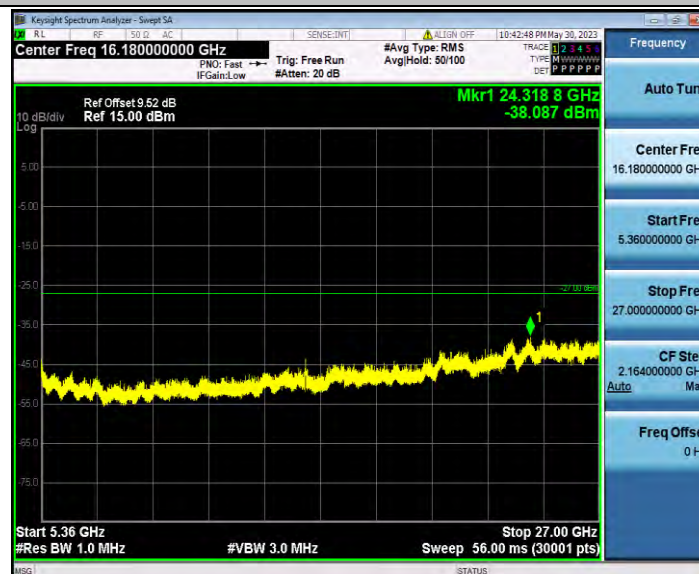
11N20SISO_Ant2_5180_30~5140



11N20SISO_Ant2_5180_5360~40000



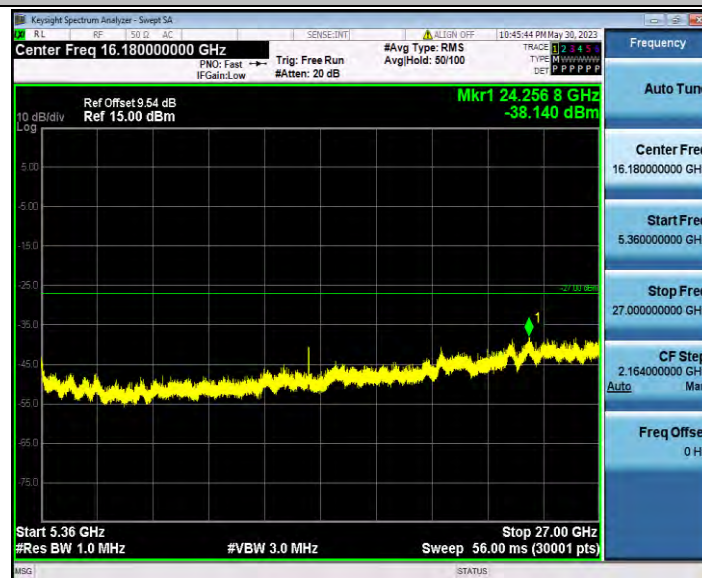
11N20SISO_Ant2_5200_30~5140



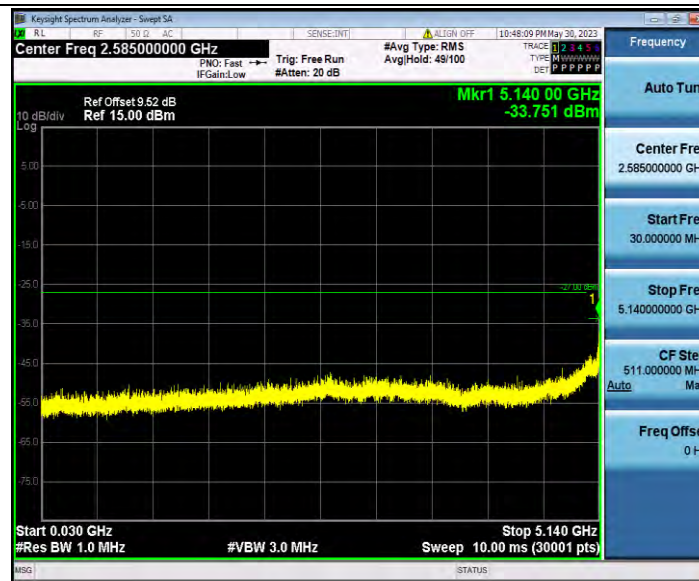
11N20SISO_Ant2_5200_5360~40000



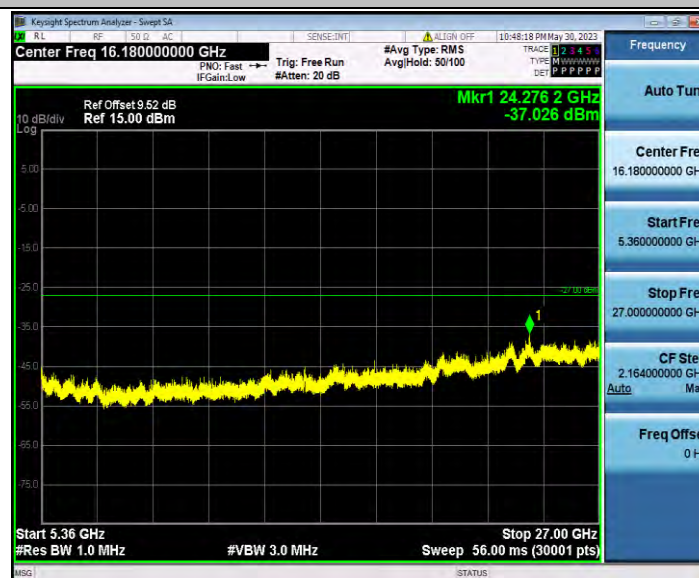
11N20SISO_Ant2_5240_30~5140



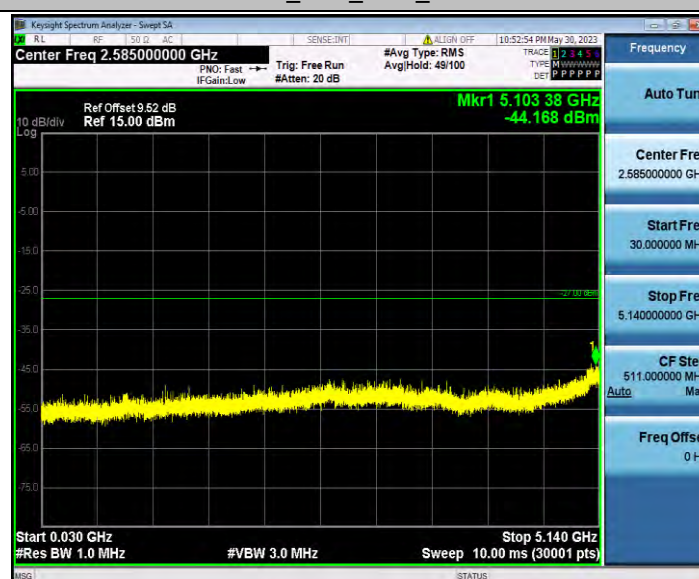
11N20SISO_Ant2_5240_5360~40000



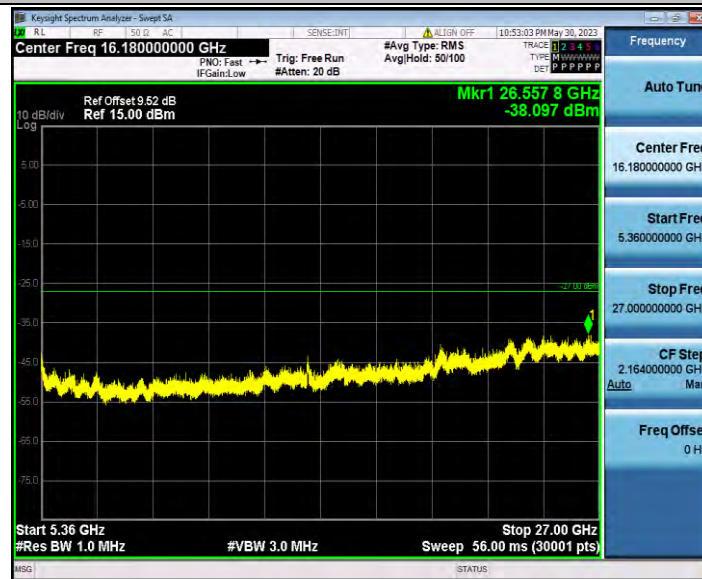
11N40SISO_Ant2_5190_30~5140



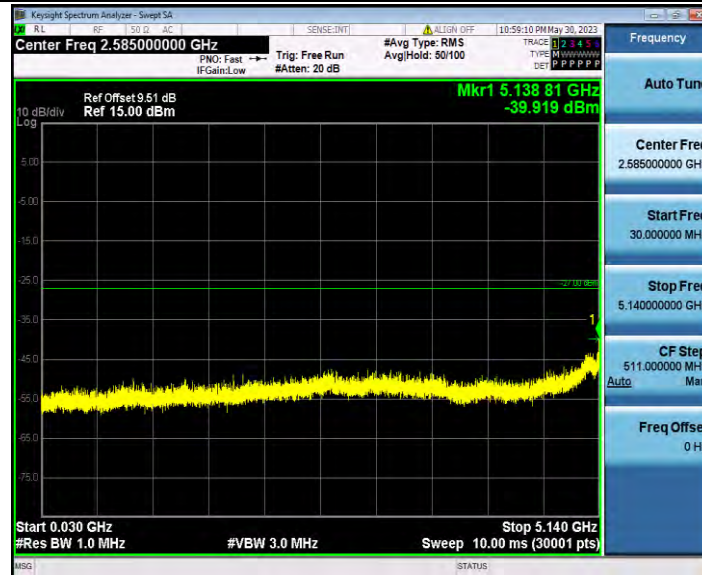
11N40SISO_Ant2_5190_5360~40000



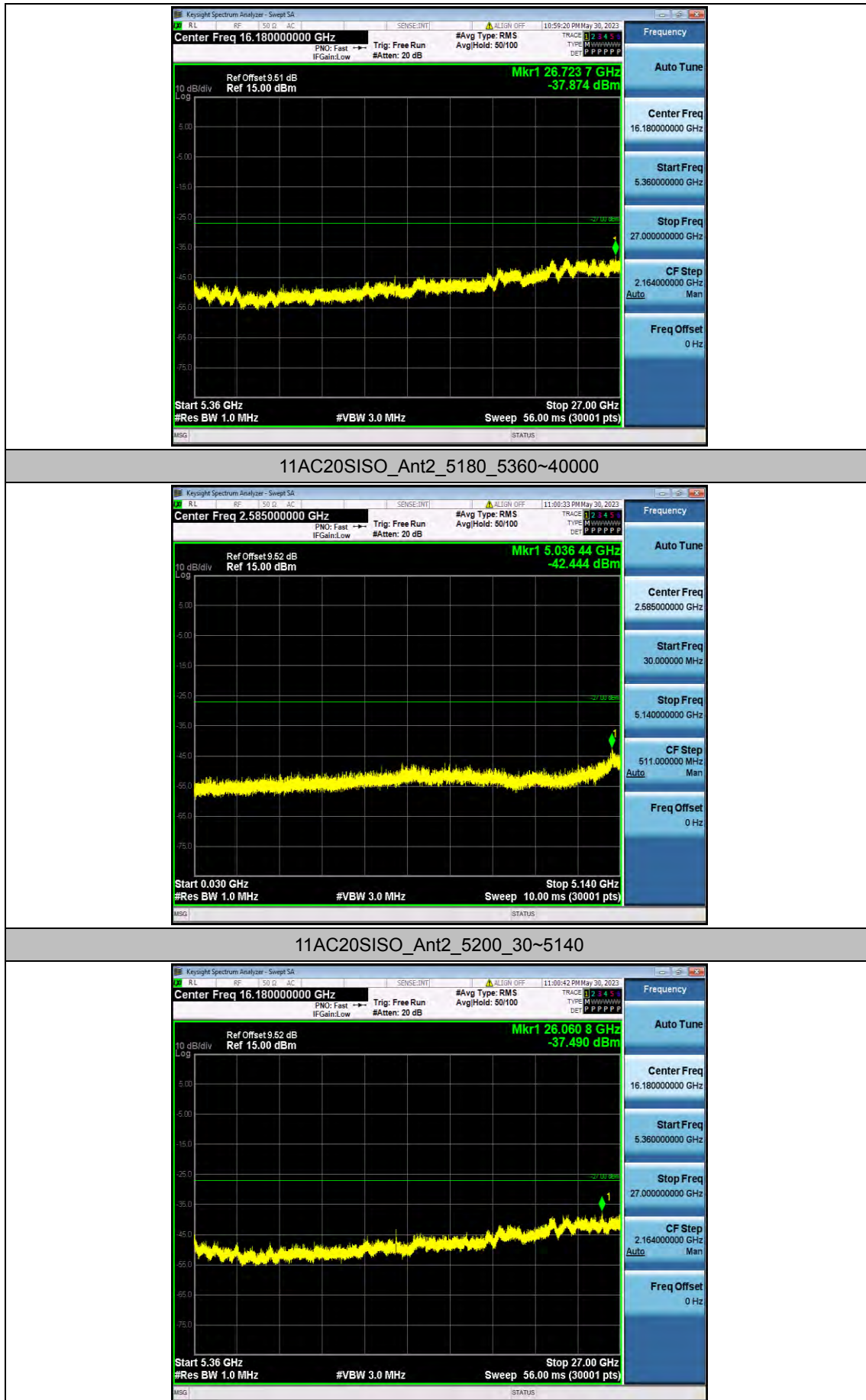
11N40SISO_Ant2_5230_30~5140



11N40SISO_Ant2_5230_5360~40000



11AC20SISO_Ant2_5180_30~5140



11AC20SISO_Ant2_5200_5360~40000



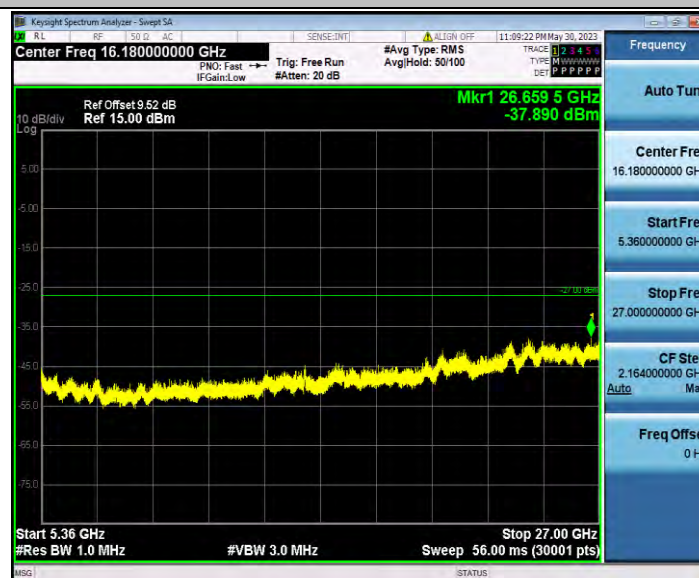
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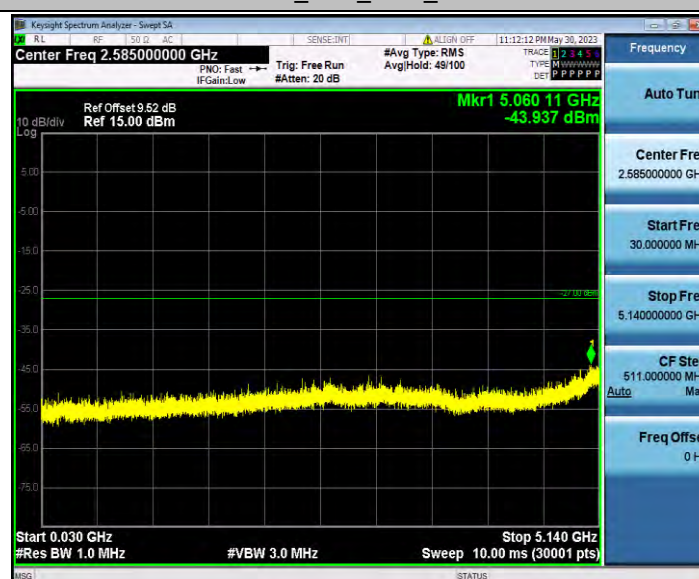
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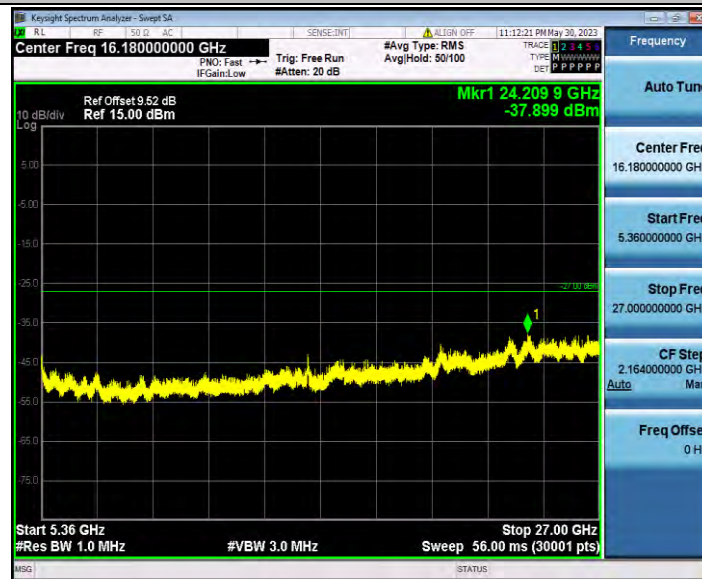
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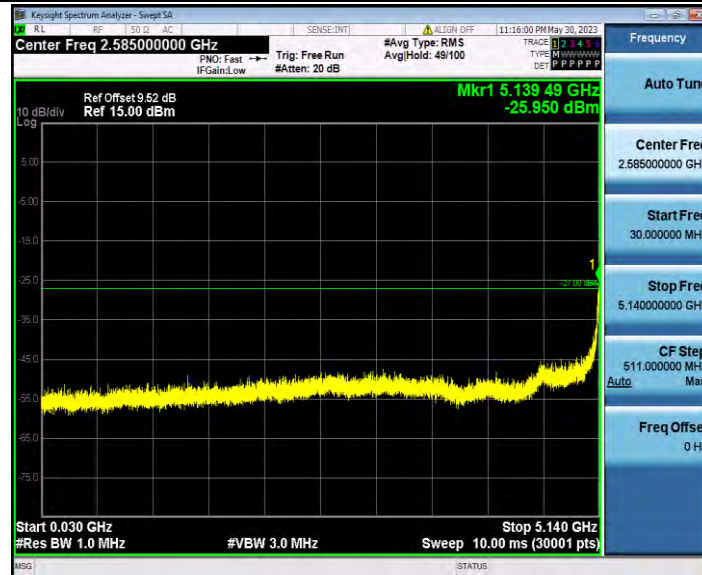
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11AC40SISO_Ant2_5230_30~5140



11AC40SISO_Ant2_5230_5360~40000



11AC80SISO_Ant2_5210_30~5140

