

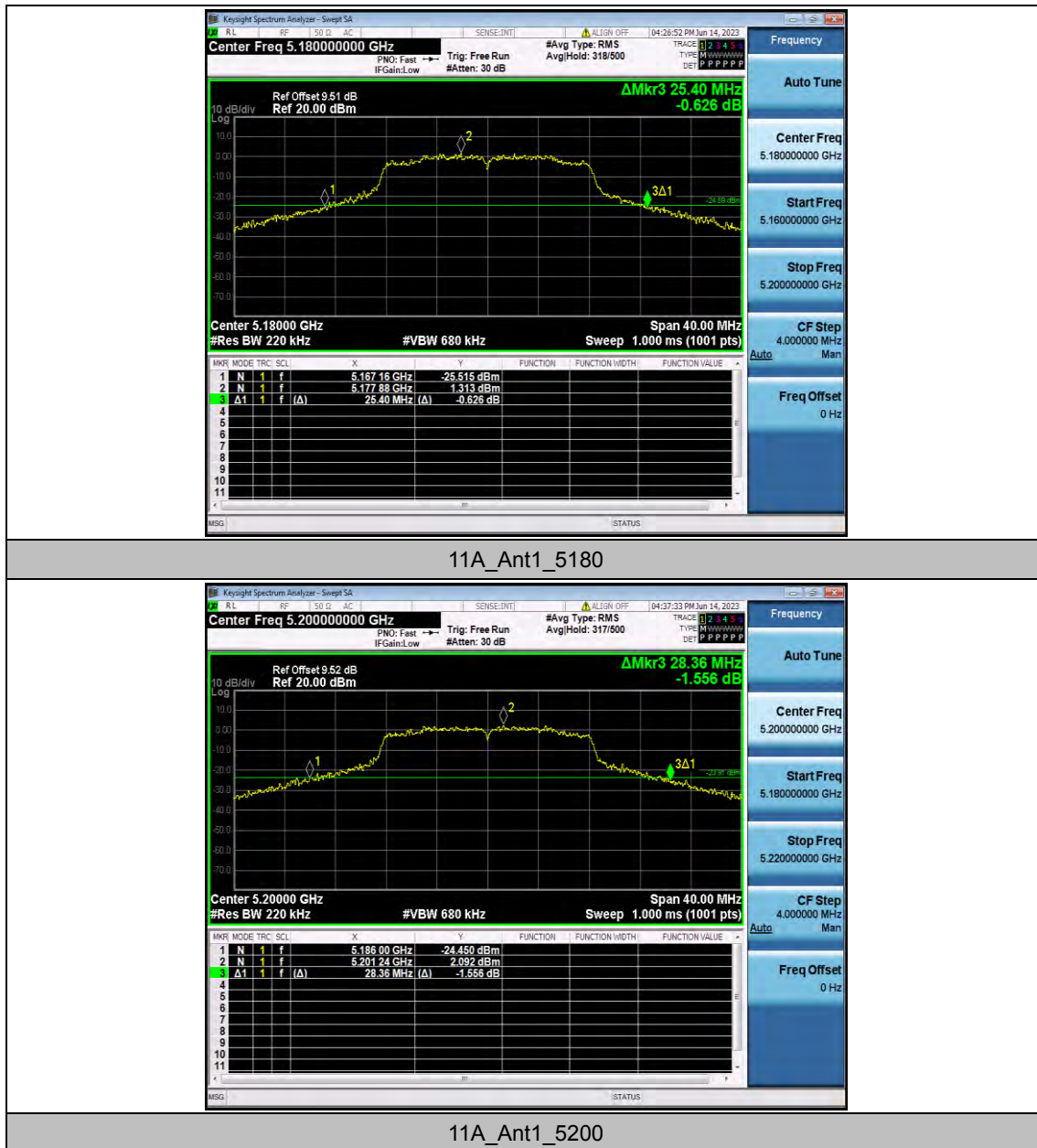
Case No. : <u>GTS20230525016-1-22</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.6.13</u>	Test Engineer: <u>Jenny zeng</u>

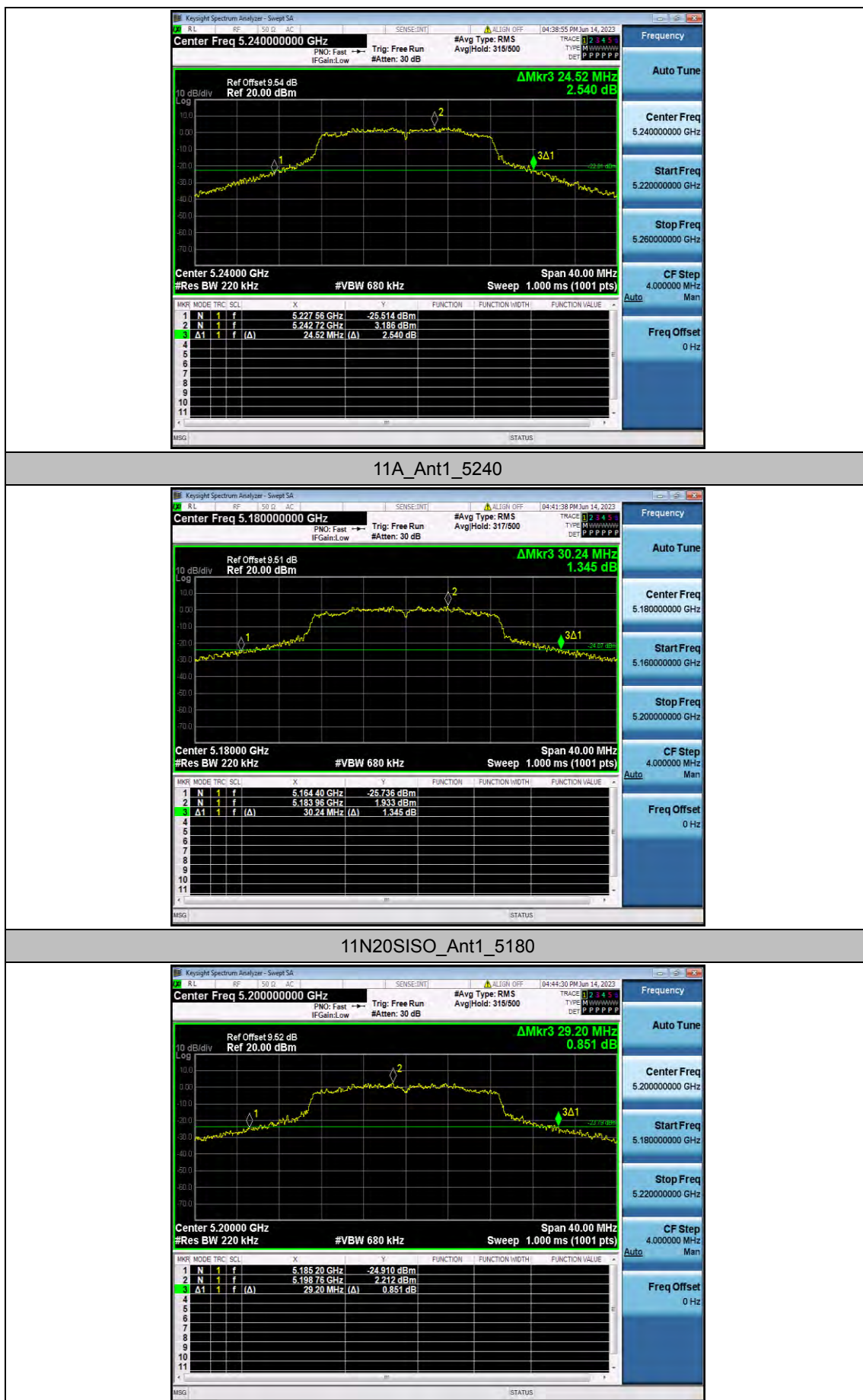
Appendix D.1: Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	25.400	5167.160	5192.560	---	---
		5200	28.360	5186.000	5214.360	---	---
		5240	24.520	5227.560	5252.080	---	---
11N20SISO	Ant1	5180	30.240	5164.400	5194.640	---	---
		5200	29.200	5185.200	5214.400	---	---
		5240	25.720	5226.880	5252.600	---	---
11N40SISO	Ant1	5190	59.200	5158.160	5217.360	---	---
		5230	44.480	5207.520	5252.000	---	---
11AC20SISO	Ant1	5180	26.240	5167.120	5193.360	---	---
		5200	24.760	5187.880	5212.640	---	---
		5240	22.680	5228.760	5251.440	---	---
11AC40SISO	Ant1	5190	46.720	5167.200	5213.920	---	---
		5230	42.480	5208.720	5251.200	---	---
11AC80SISO	Ant1	5210	125.120	5150.480	5275.600	---	---

Test Graphs





11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



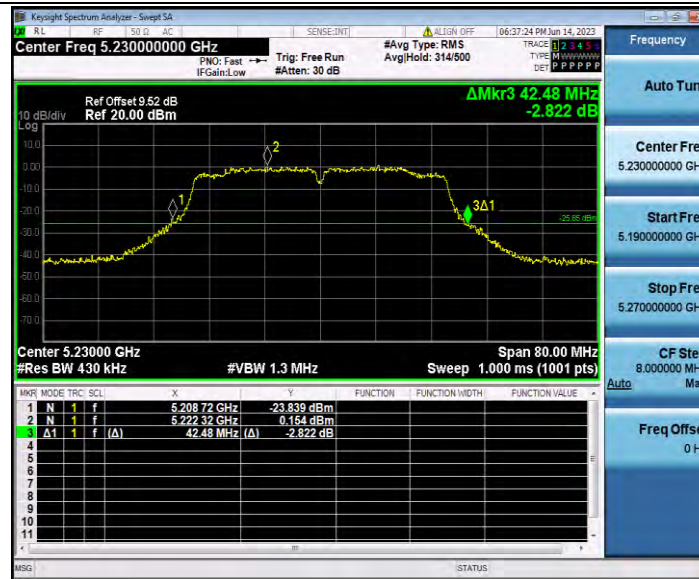
11AC20SISO_Ant1_5200



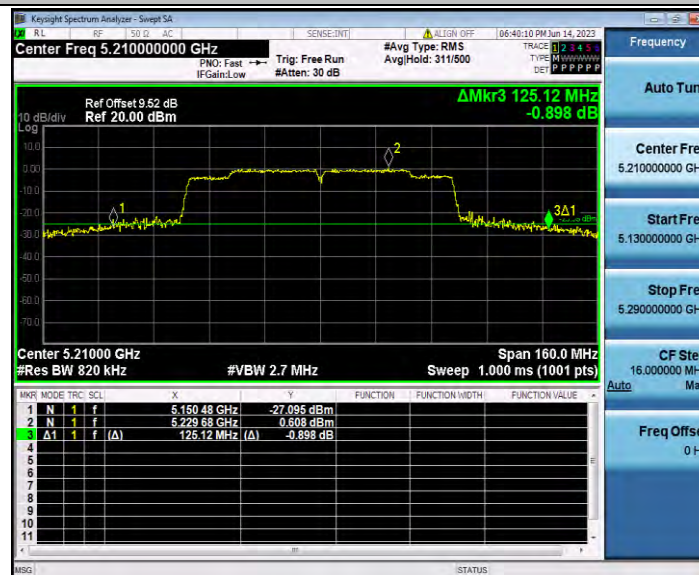
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



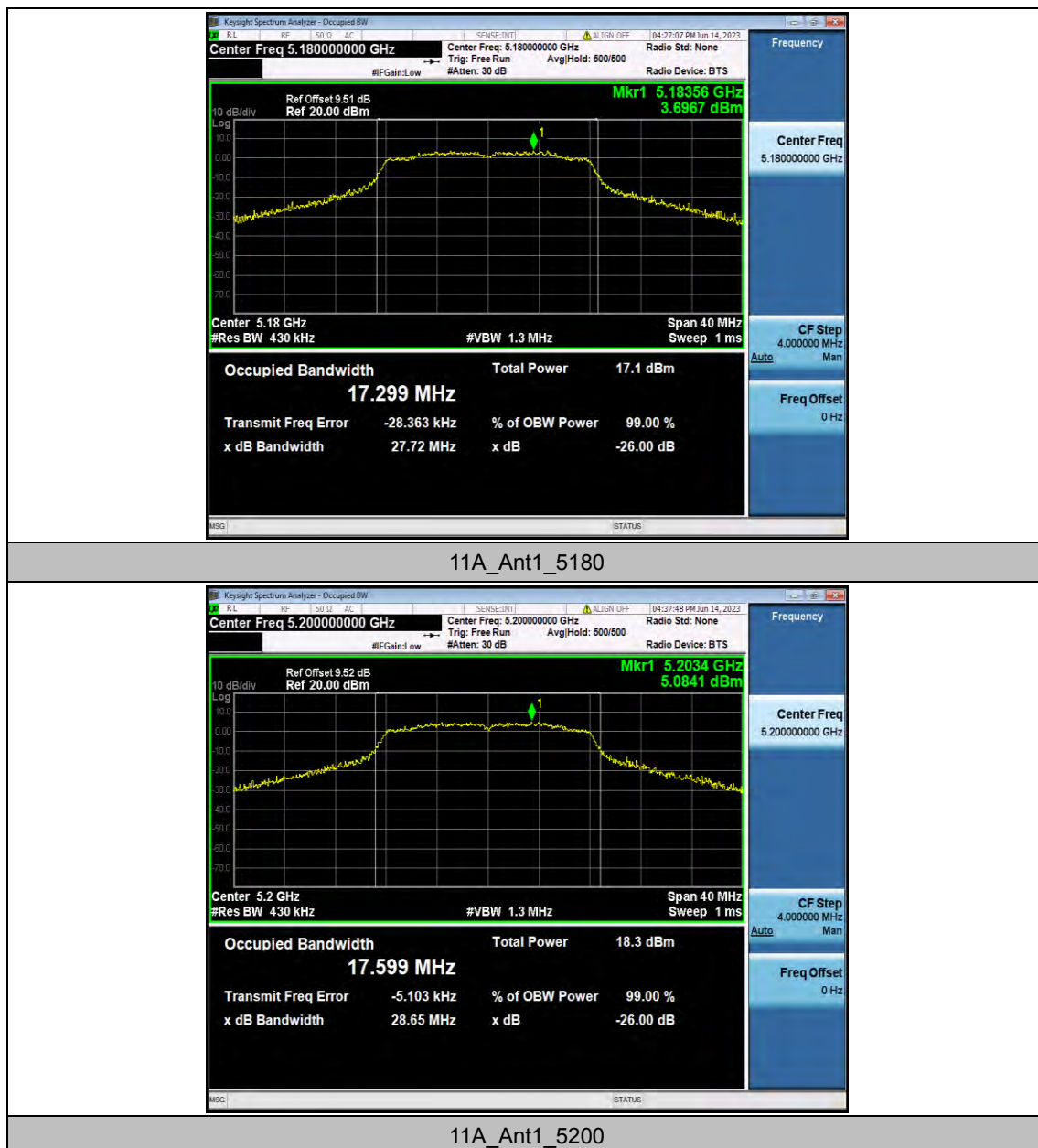
11AC80SISO_Ant1_5210

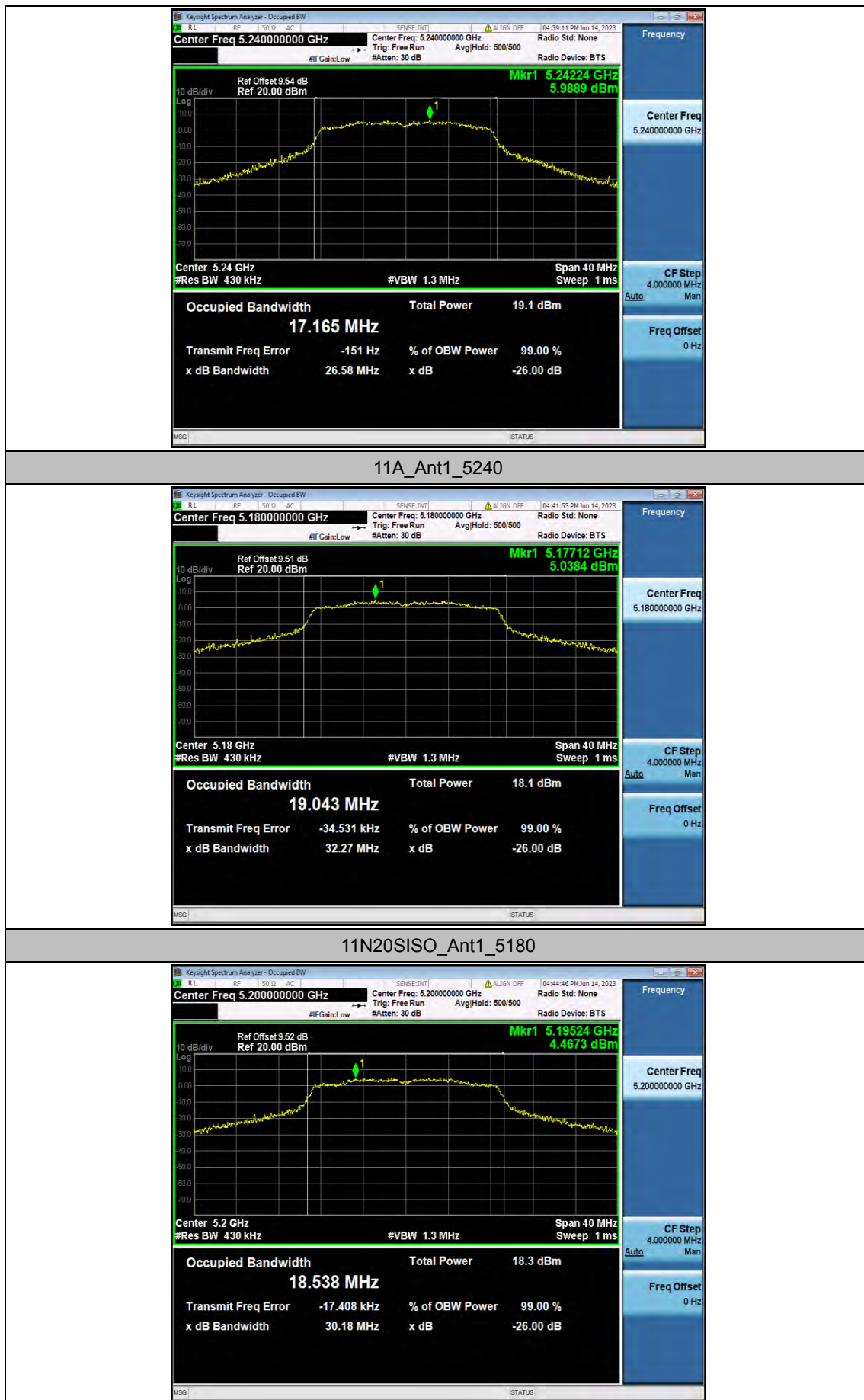
Appendix D.2: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.299	5171.322	5188.621	---	---
		5200	17.599	5191.195	5208.794	---	---
		5240	17.165	5231.417	5248.582	---	---
11N20SISO	Ant1	5180	19.043	5170.444	5189.487	---	---
		5200	18.538	5190.714	5209.252	---	---
		5240	18.191	5230.908	5249.099	---	---
11N40SISO	Ant1	5190	36.868	5171.612	5208.480	---	---
		5230	36.299	5211.892	5248.191	---	---
11AC20SISO	Ant1	5180	18.389	5170.790	5189.179	---	---
		5200	18.234	5190.869	5209.103	---	---
		5240	18.040	5230.991	5249.031	---	---
11AC40SISO	Ant1	5190	36.456	5171.781	5208.237	---	---
		5230	36.265	5211.856	5248.121	---	---
11AC80SISO	Ant1	5210	76.016	5172.075	5248.091	---	---

Test Graphs

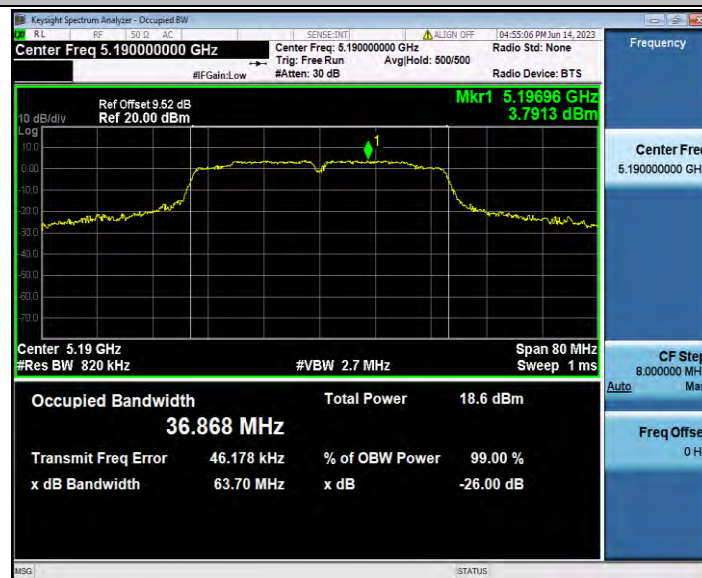




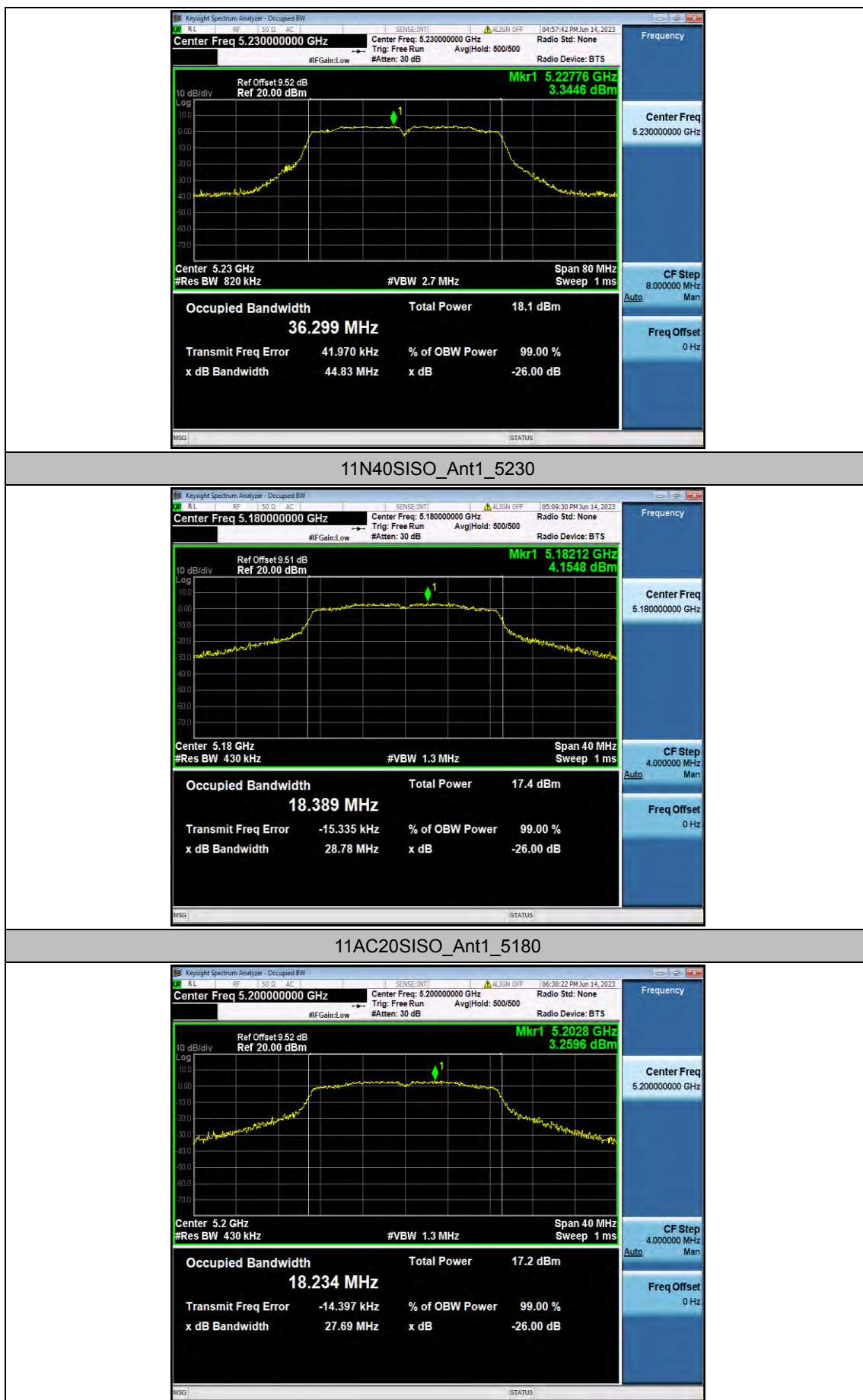
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



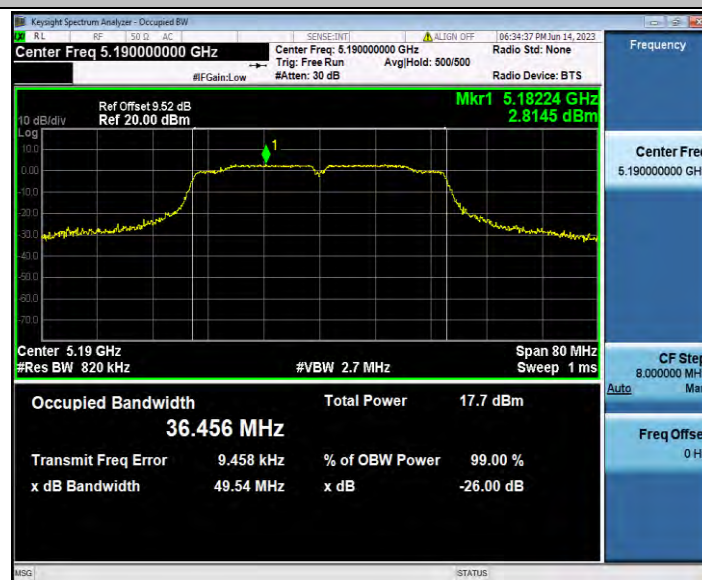
11N40SISO_Ant1_5190



11AC20SISO_Ant1_5200



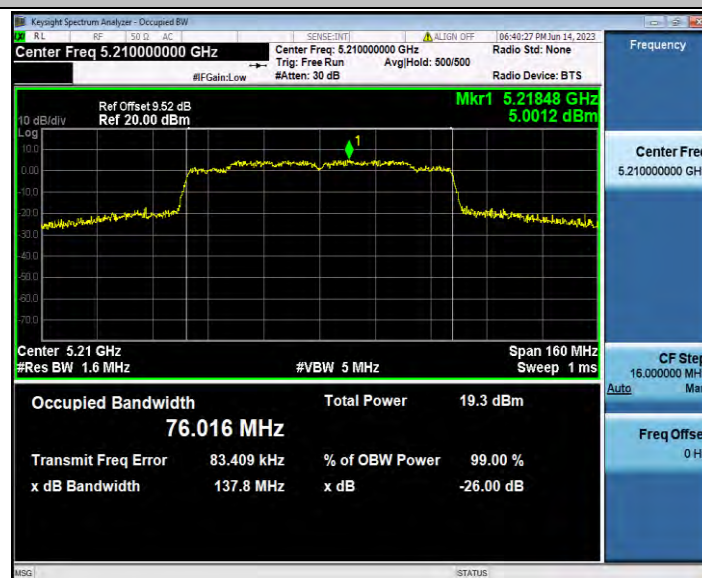
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



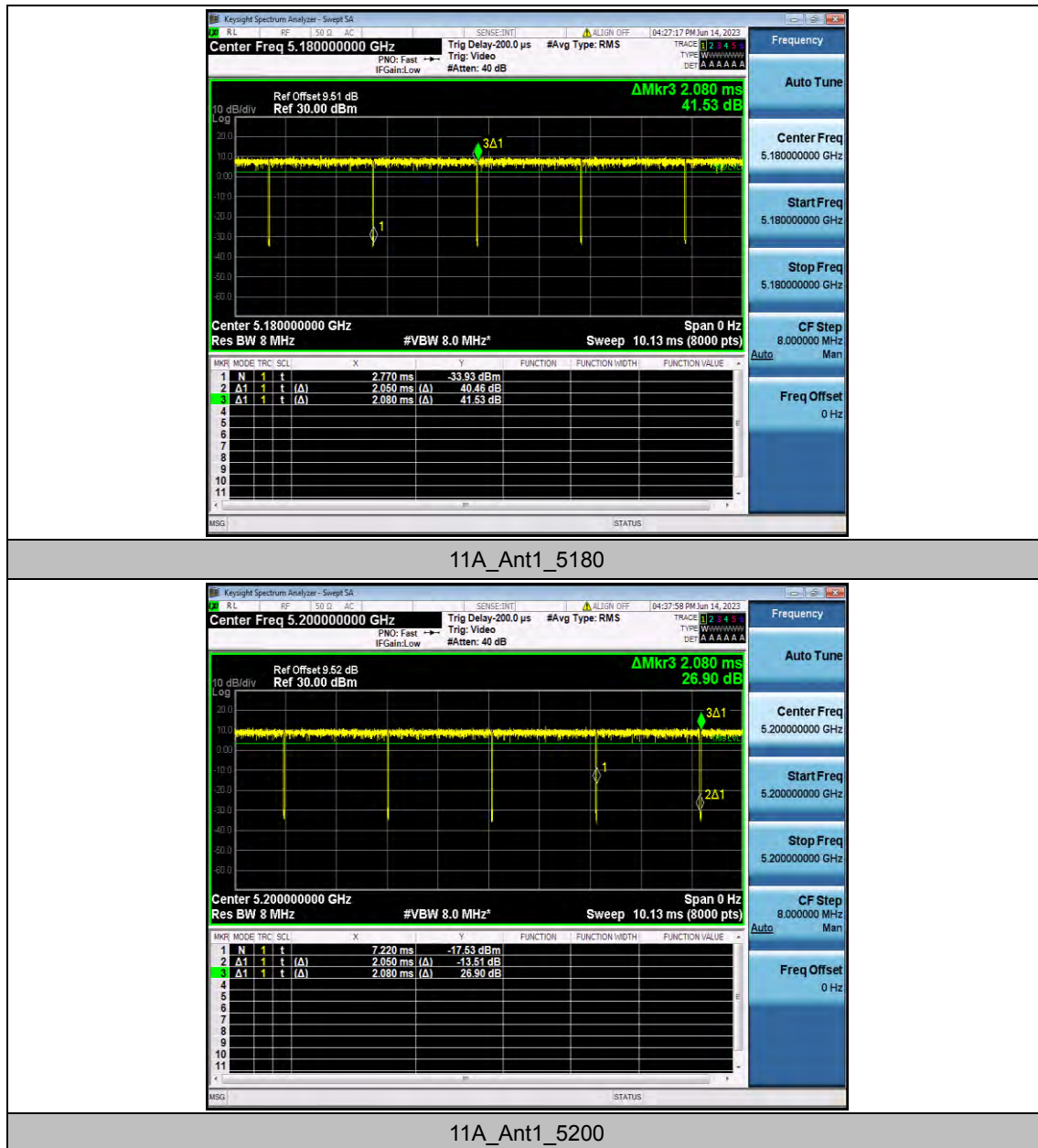
11AC80SISO_Ant1_5210

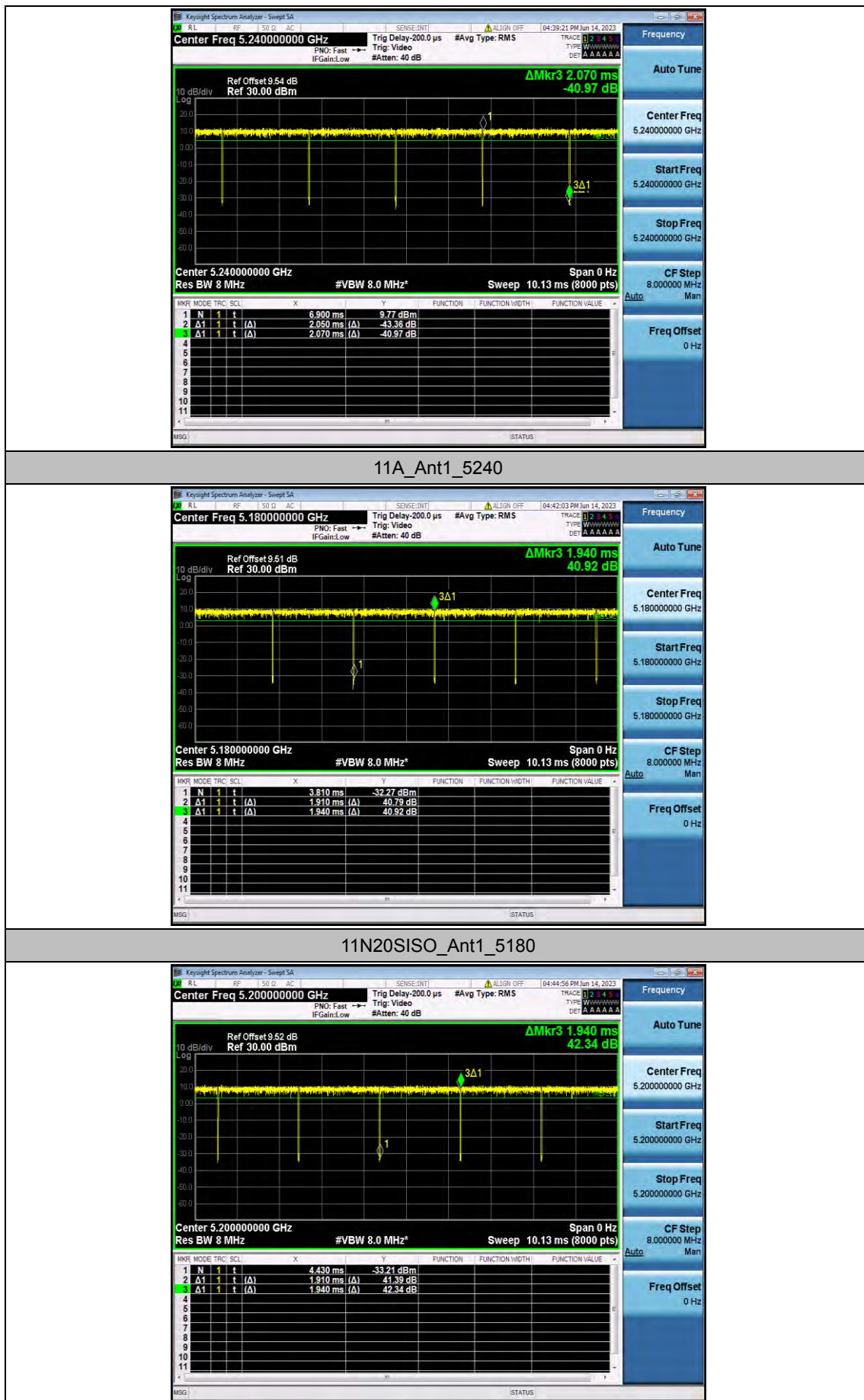
Appendix D.3: Duty Cycle

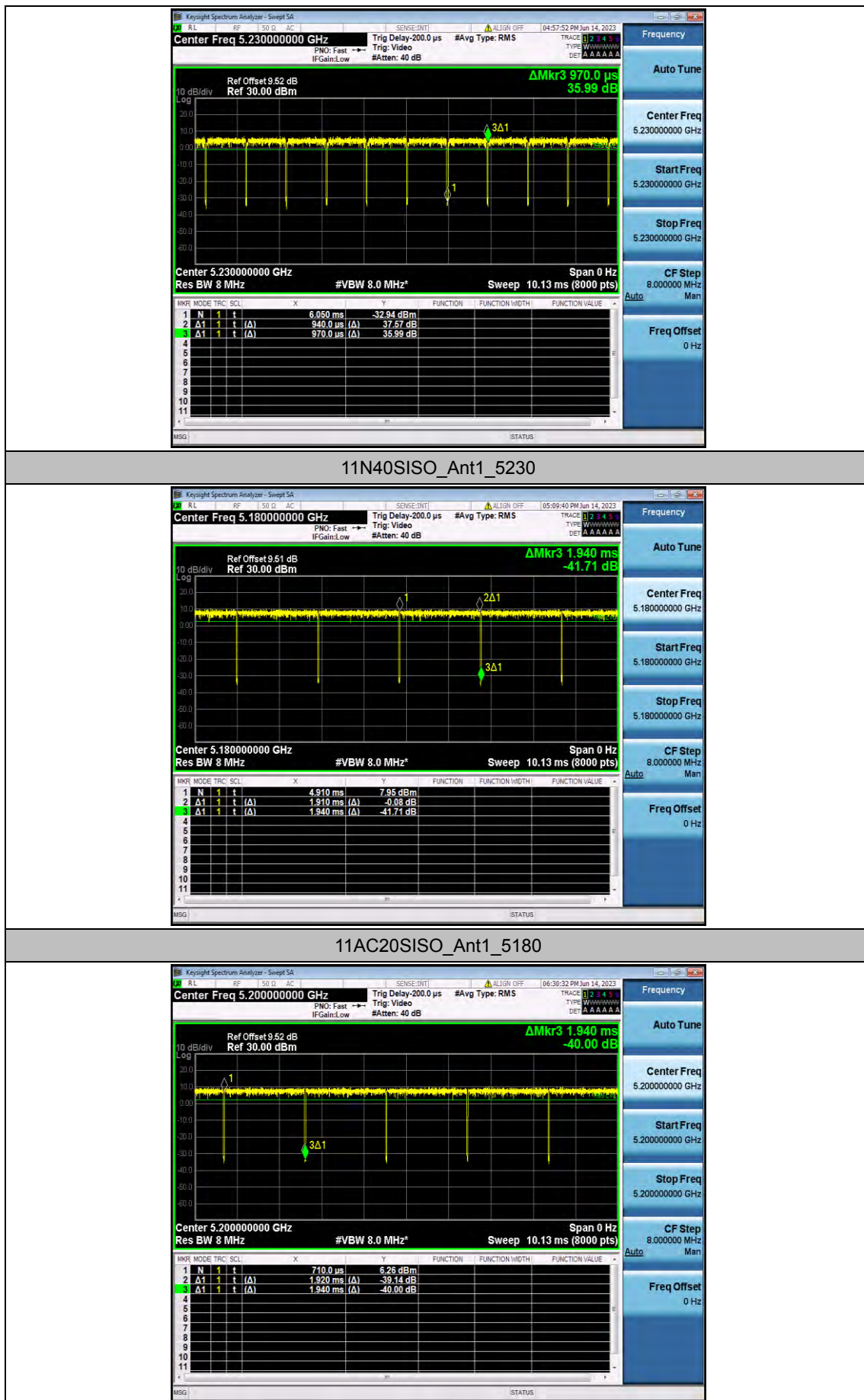
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.05	2.08	98.56
		5200	2.05	2.08	98.56
		5240	2.05	2.07	99.03
11N20SISO	Ant1	5180	1.91	1.94	98.45
		5200	1.91	1.94	98.45
		5240	1.91	1.94	98.45
11N40SISO	Ant1	5190	0.94	0.97	96.91
		5230	0.94	0.97	96.91
11AC20SISO	Ant1	5180	1.91	1.94	98.45
		5200	1.92	1.94	98.97
		5240	1.92	1.95	98.46
11AC40SISO	Ant1	5190	0.94	0.97	96.91
		5230	0.94	0.97	96.91
11AC80SISO	Ant1	5210	0.44	0.47	93.62

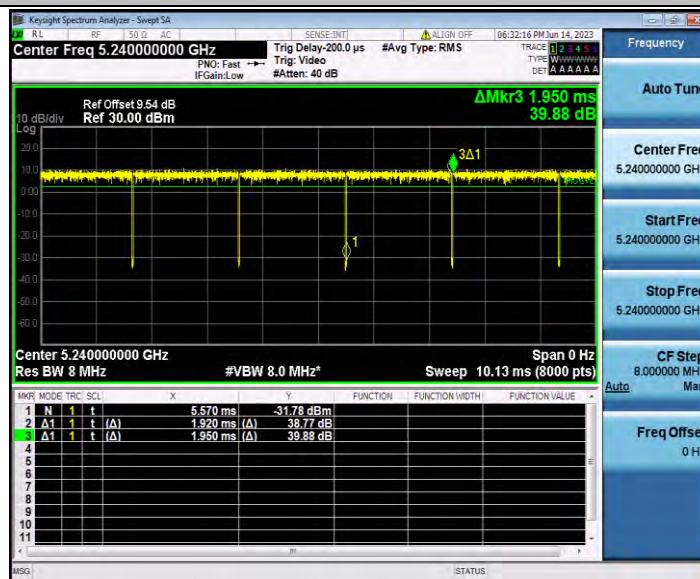
Test Graphs



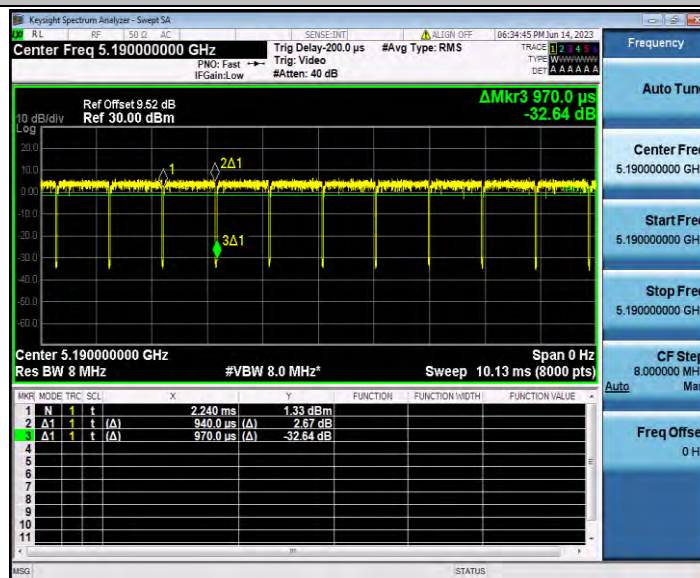




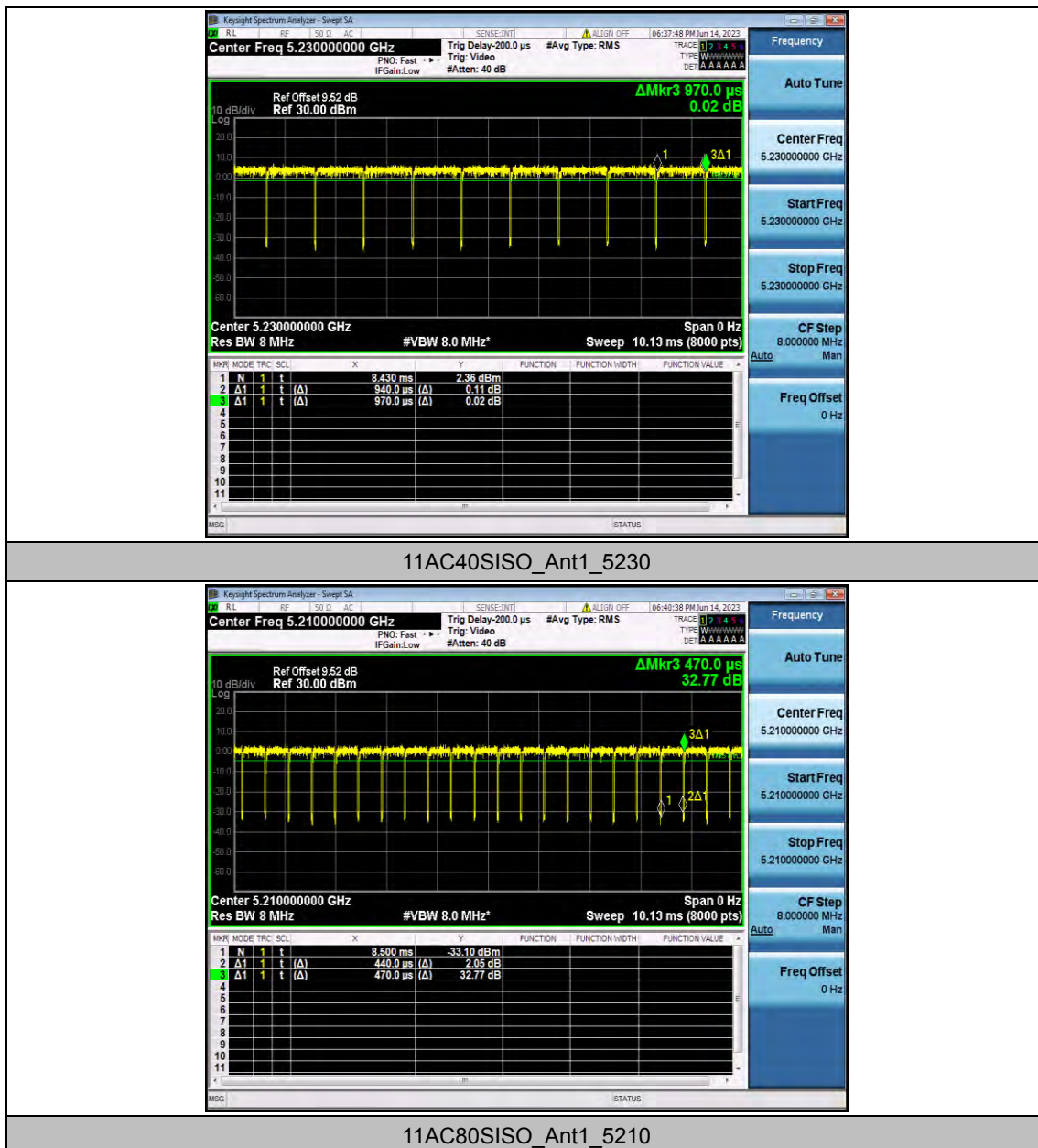
11AC20SISO_Ant1_5200



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	10.21	98.56	0.06	10.27	≤23.98	PASS
		5200	11.40	98.56	0.06	11.46	≤23.98	PASS
		5240	12.31	99.03	0.04	12.35	≤23.98	PASS
11N20SISO	Ant1	5180	11.13	98.45	0.07	11.20	≤23.98	PASS
		5200	11.36	98.45	0.07	11.43	≤23.98	PASS
		5240	12.12	98.45	0.07	12.19	≤23.98	PASS
11N40SISO	Ant1	5190	10.88	96.91	0.14	11.02	≤23.98	PASS
		5230	10.61	96.91	0.14	10.75	≤23.98	PASS
11AC20SISO	Ant1	5180	10.55	98.45	0.07	10.62	≤23.98	PASS
		5200	10.37	98.97	0.04	10.41	≤23.98	PASS
		5240	10.64	98.46	0.07	10.71	≤23.98	PASS
11AC40SISO	Ant1	5190	10.13	96.91	0.14	10.27	≤23.98	PASS
		5230	10.30	96.91	0.14	10.44	≤23.98	PASS
11AC80SISO	Ant1	5210	10.01	93.62	0.29	10.30	≤23.98	PASS

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

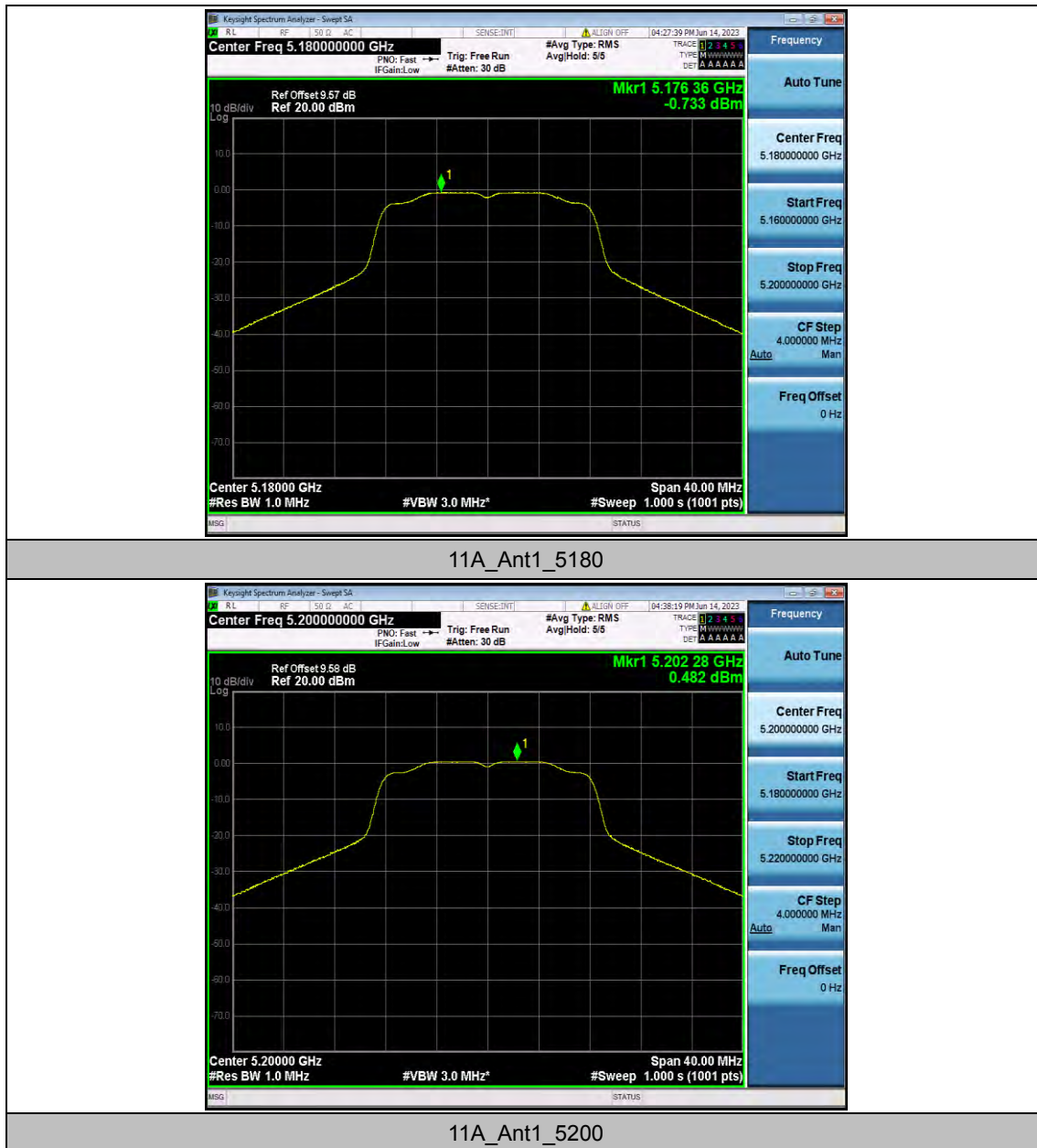
Appendix D.5: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-0.73	≤ 11.00	PASS
		5200	0.48	≤ 11.00	PASS
		5240	1.4	≤ 11.00	PASS
11N20SISO	Ant1	5180	-0.1	≤ 11.00	PASS
		5200	0.22	≤ 11.00	PASS
		5240	1.14	≤ 11.00	PASS
11N40SISO	Ant1	5190	-3.45	≤ 11.00	PASS
		5230	-3.72	≤ 11.00	PASS
11AC20SISO	Ant1	5180	-0.61	≤ 11.00	PASS
		5200	-0.81	≤ 11.00	PASS
		5240	-0.39	≤ 11.00	PASS
11AC40SISO	Ant1	5190	-4.21	≤ 11.00	PASS
		5230	-3.99	≤ 11.00	PASS
11AC80SISO	Ant1	5210	-6.64	≤ 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





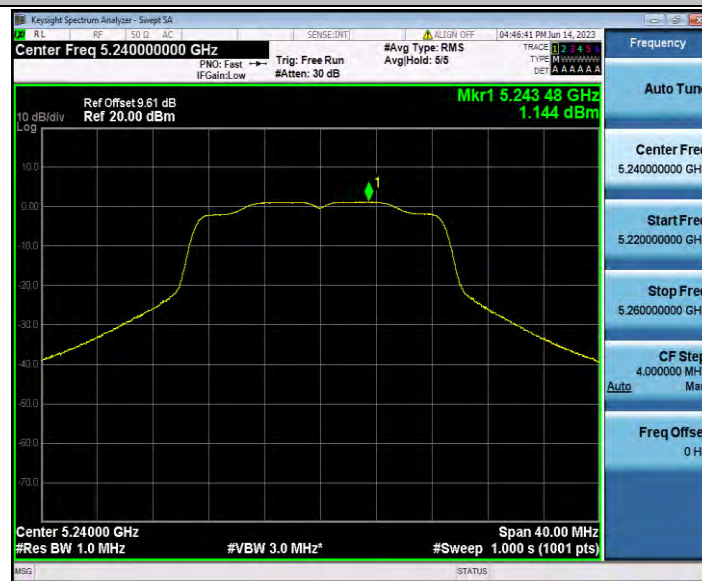
11A_Ant1_5240



11N20SISO_Ant1_5180



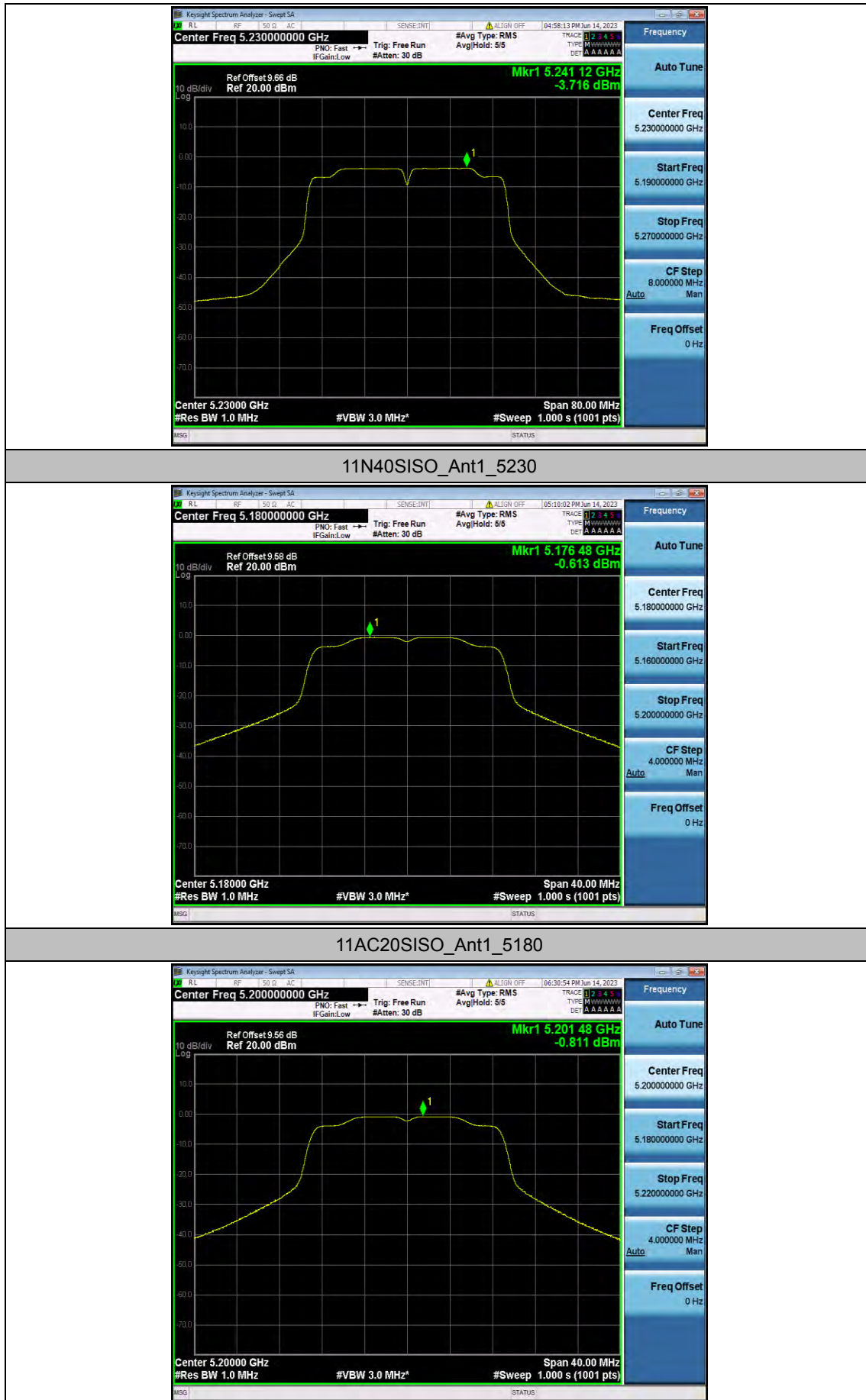
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190

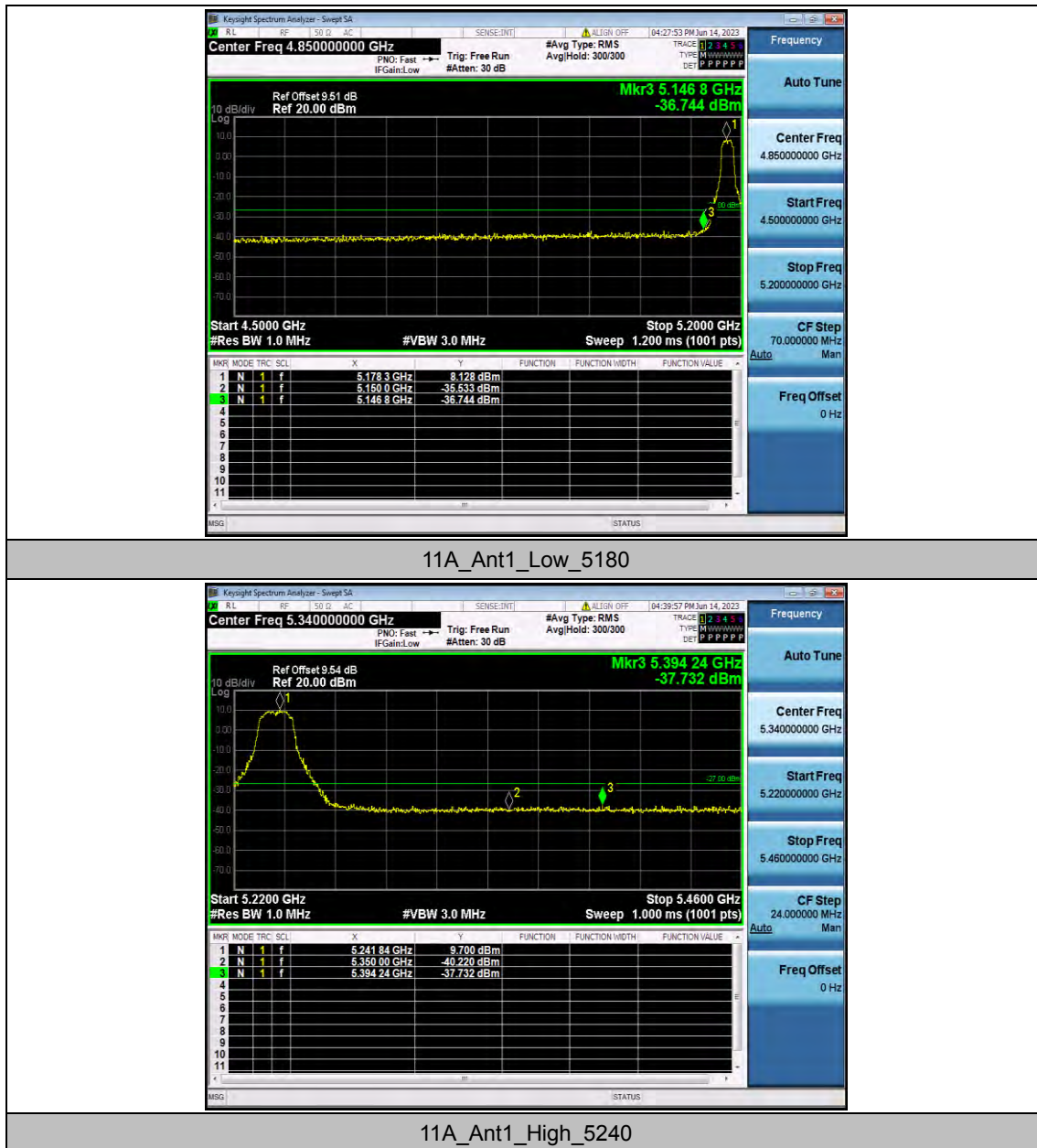


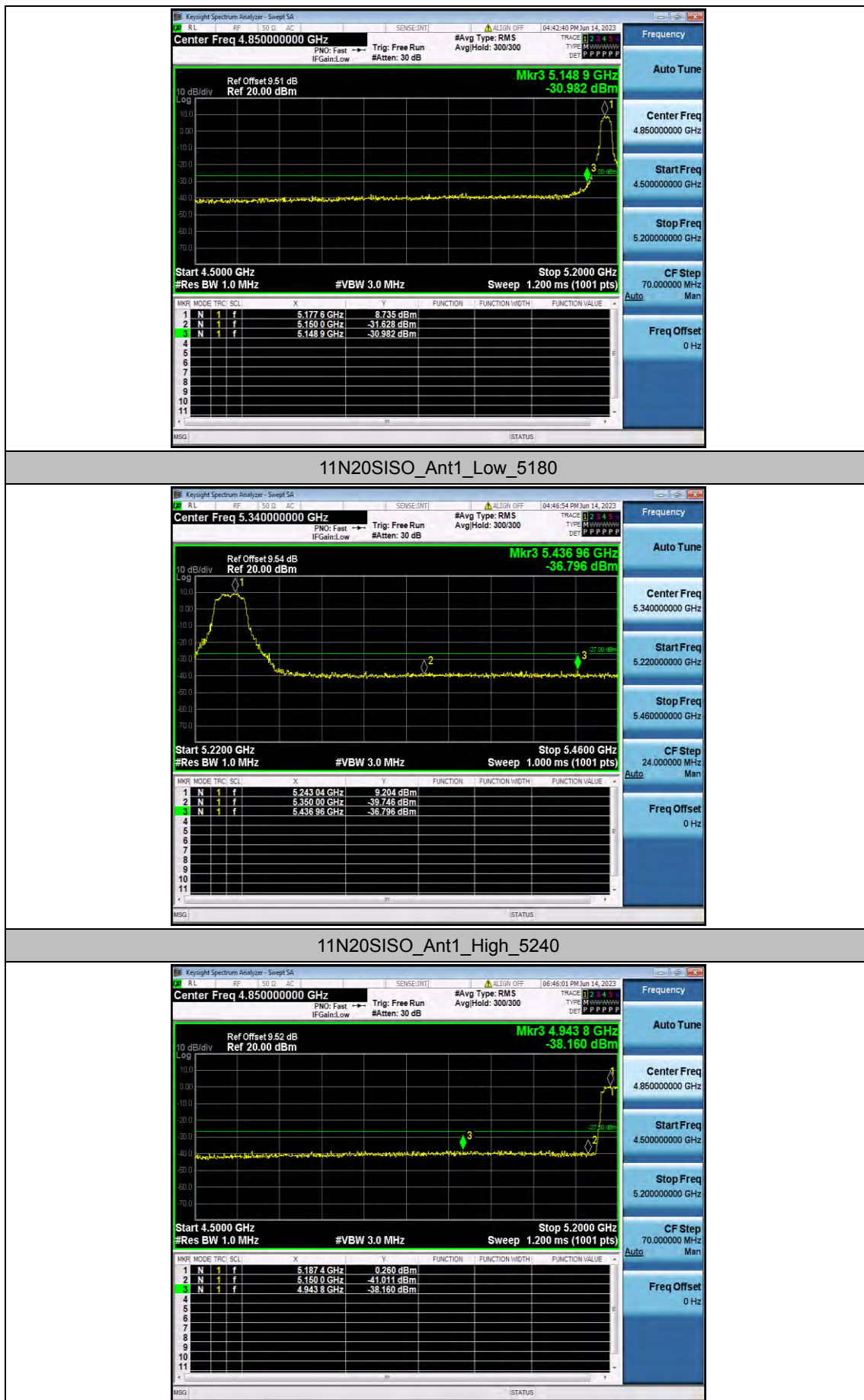
Appendix D.6: Band edge measurements

Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-36.74	≤ -27	PASS
		High	5240	-37.73	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-30.98	≤ -27	PASS
		High	5240	-36.8	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-38.16	≤ -27	PASS
		High	5230	-37.6	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-34.97	≤ -27	PASS
		High	5240	-37.45	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-31.52	≤ -27	PASS
		High	5230	-37.84	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-37.19	≤ -27	PASS
		High	5210	-37.55	≤ -27	PASS

Test Graphs B1

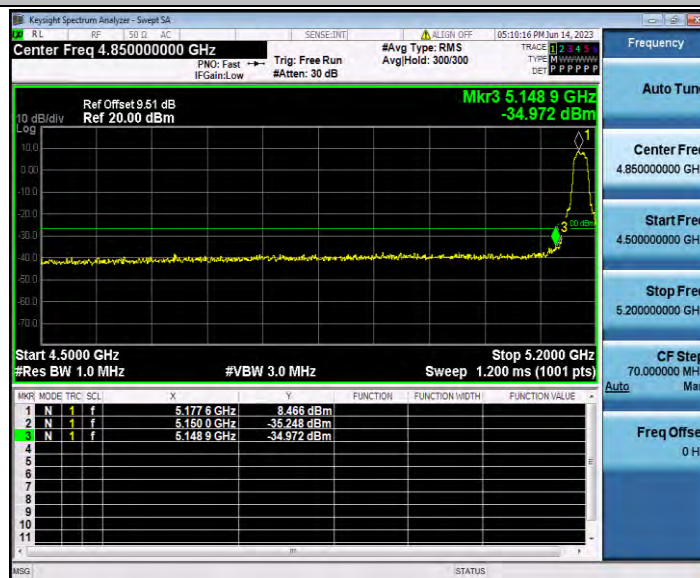




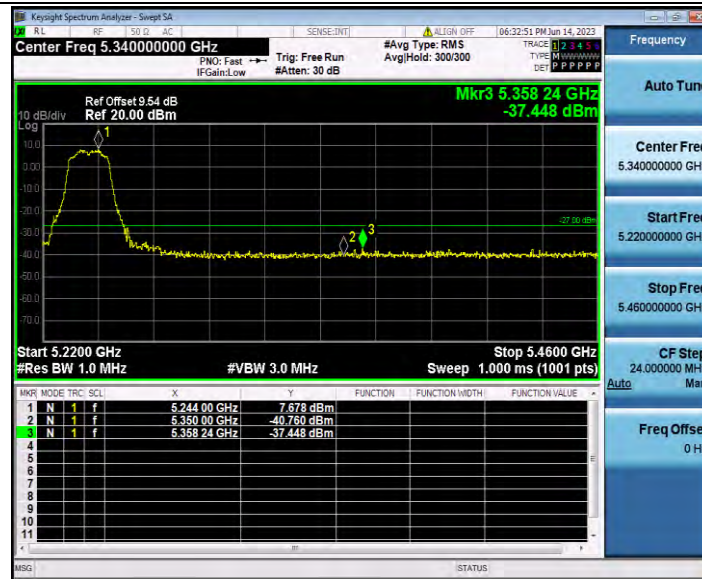
11N40SISO_Ant1_Low_5190



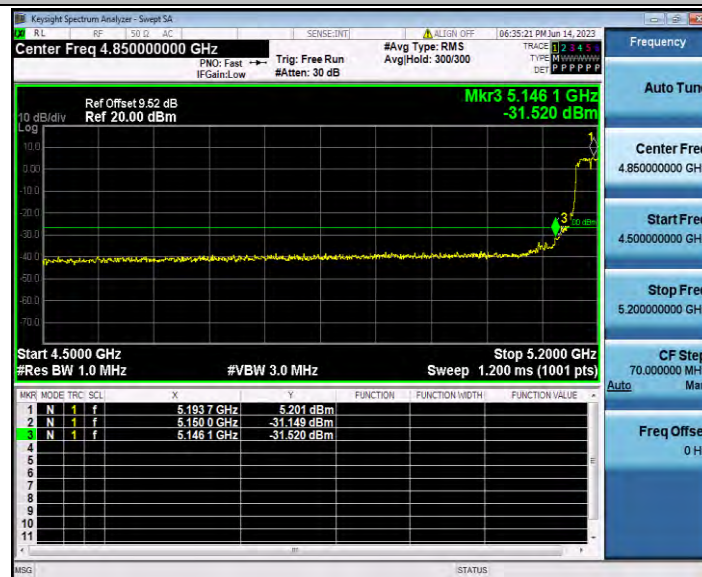
11N40SISO_Ant1_High_5230



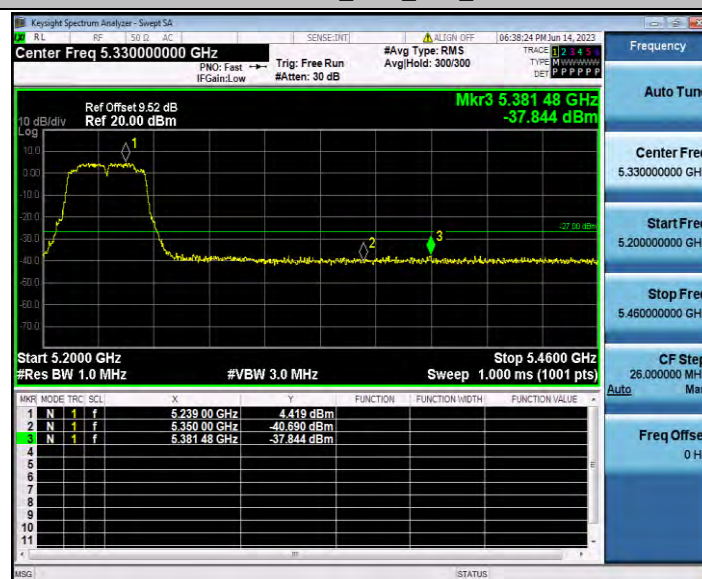
11AC20SISO_Ant1_Low_5180



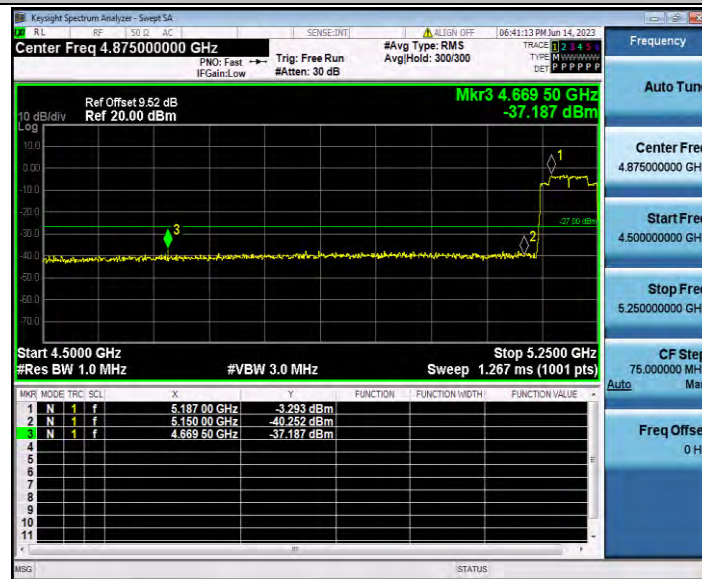
11AC20SISO_Ant1_High_5240



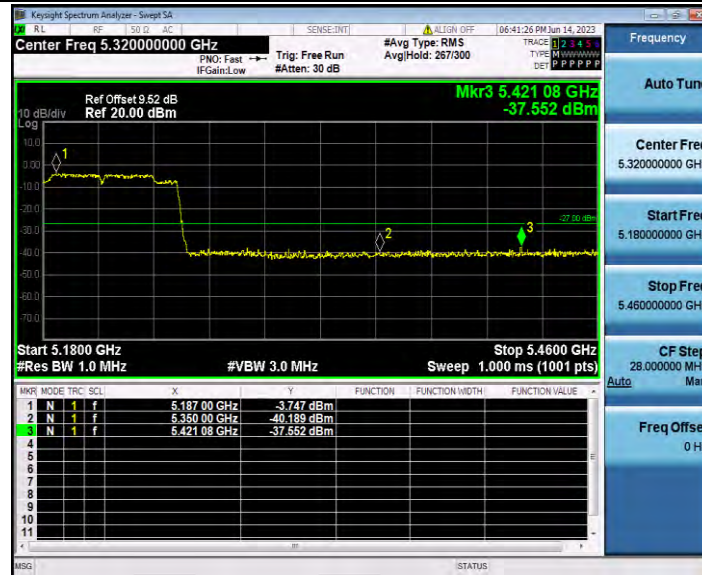
11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



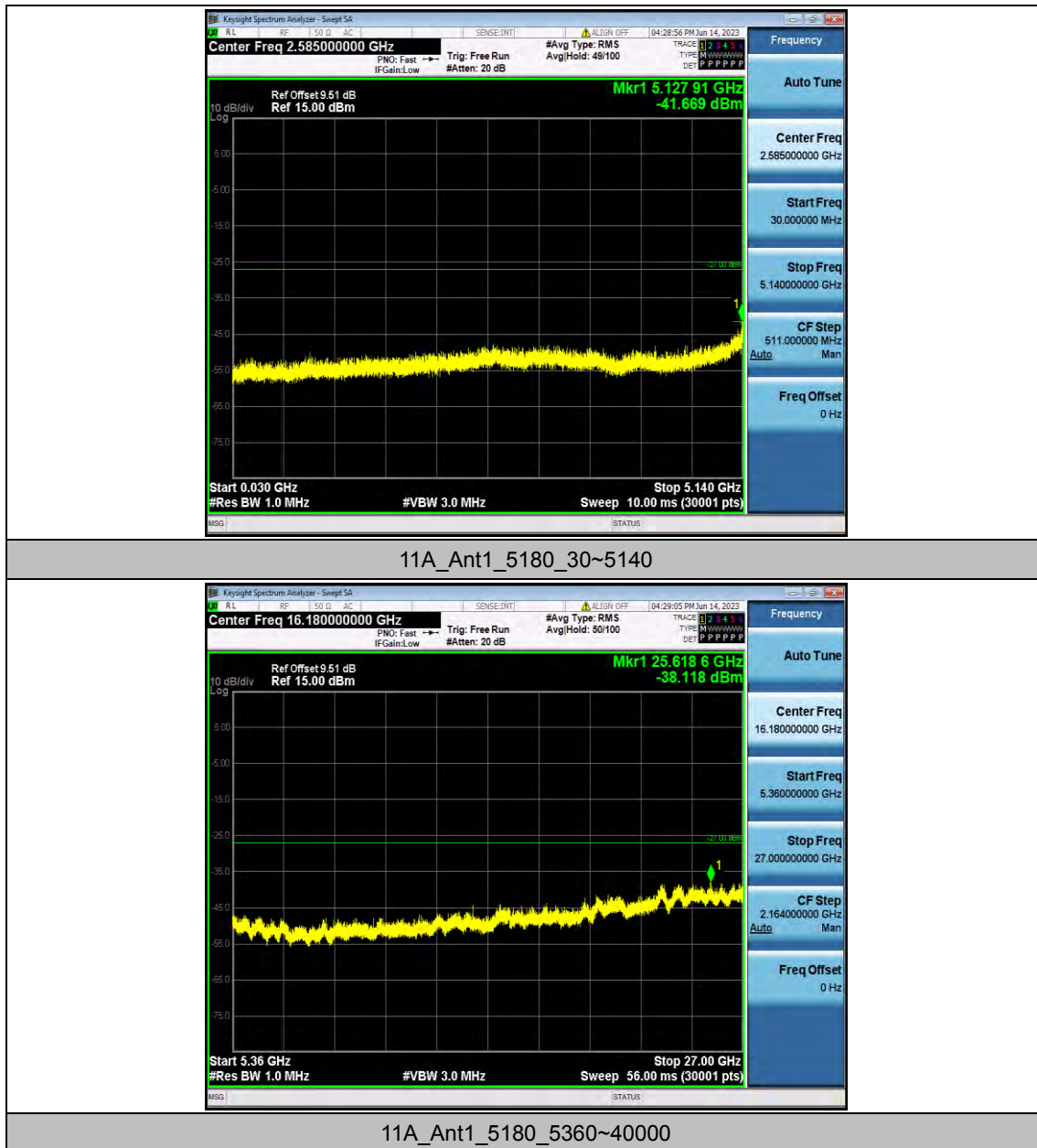
11AC80SISO_Ant1_High_5210

Appendix D.7: Conducted Spurious Emission

Test Result

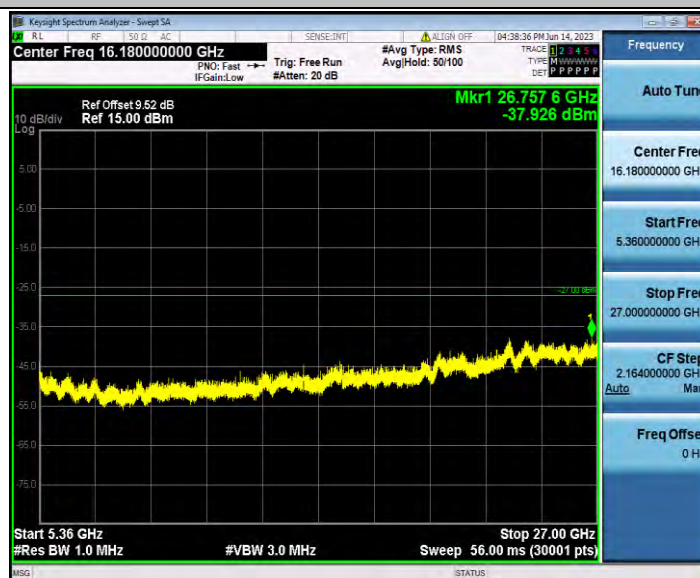
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5127.91	-41.67	≤-27	PASS
			5360~40000	25618.65	-38.12	≤-27	PASS
		5200	30~5140	5075.95	-43.75	≤-27	PASS
			5360~40000	26757.63	-37.93	≤-27	PASS
		5240	30~5140	5083.96	-43.03	≤-27	PASS
			5360~40000	26674.68	-37.88	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5139.49	-36.14	≤-27	PASS
			5360~40000	23521.01	-37.98	≤-27	PASS
		5200	30~5140	5131.82	-43.06	≤-27	PASS
			5360~40000	24279.13	-37.53	≤-27	PASS
		5240	30~5140	5077.32	-42.27	≤-27	PASS
			5360~40000	23564.29	-37.44	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5139.32	-33.46	≤-27	PASS
			5360~40000	25190.17	-37.84	≤-27	PASS
		5230	30~5140	5075.44	-44.32	≤-27	PASS
			5360~40000	24234.41	-36.81	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5138.13	-40.22	≤-27	PASS
			5360~40000	25239.95	-38.05	≤-27	PASS
		5200	30~5140	5085.49	-44.76	≤-27	PASS
			5360~40000	24889.38	-37.51	≤-27	PASS
		5240	30~5140	5111.04	-43.89	≤-27	PASS
			5360~40000	26885.31	-37.48	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5135.4	-37.25	≤-27	PASS
			5360~40000	24967.28	-38.2	≤-27	PASS
		5230	30~5140	5134.89	-44.43	≤-27	PASS
			5360~40000	24775.41	-38.44	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5137.79	-44.6	≤-27	PASS
			5360~40000	24285.62	-38.51	≤-27	PASS

Test Graphs

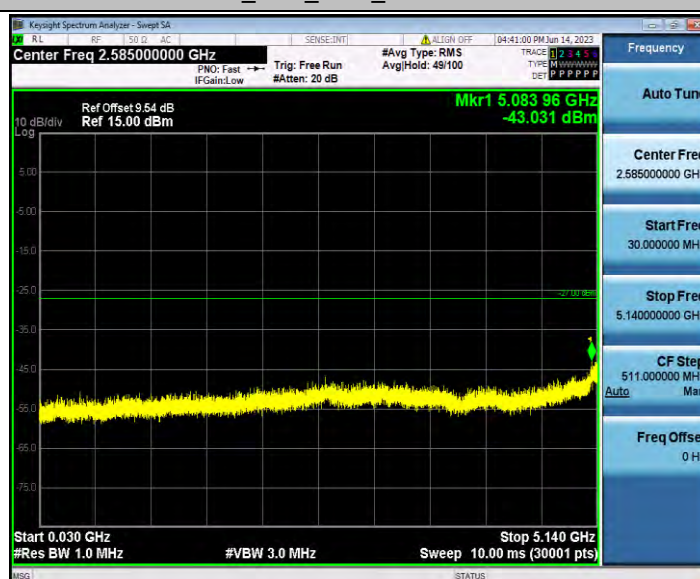




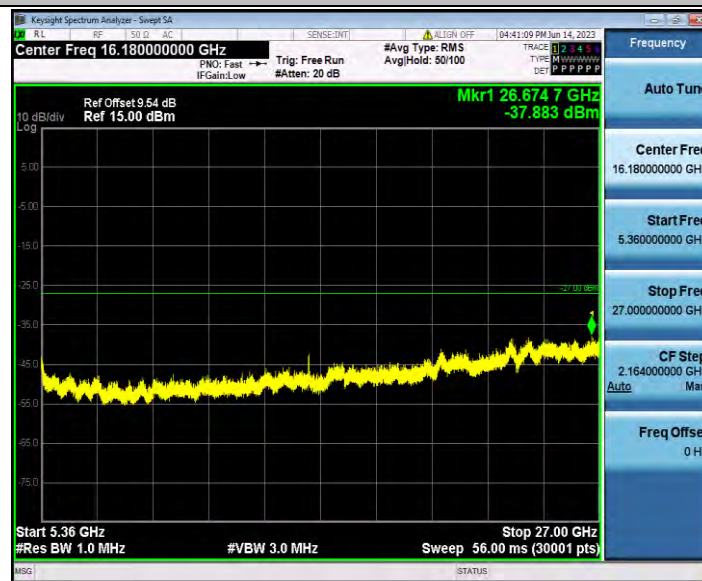
11A_Ant1_5200_30~5140



11A_Ant1_5200_5360~40000



11A_Ant1_5240_30~5140



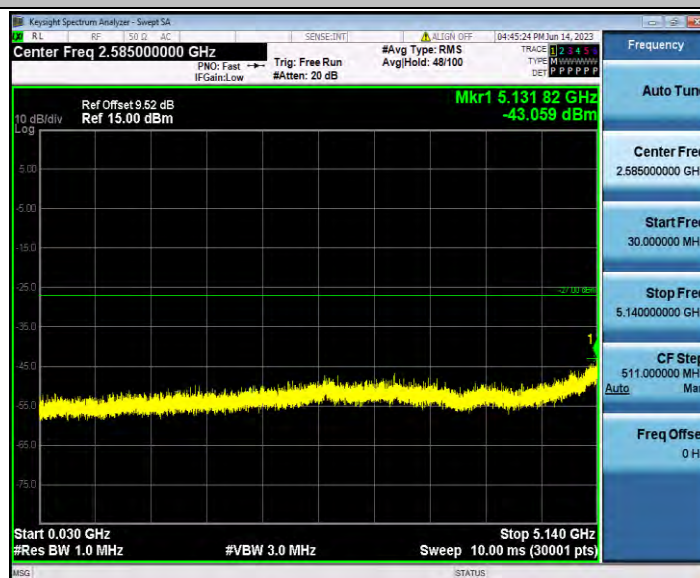
11A_Ant1_5240_5360~40000



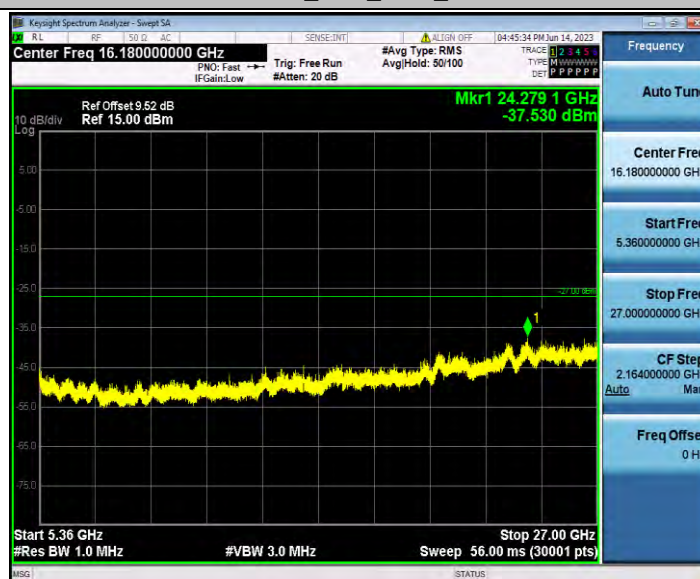
11N20SISO_Ant1_5180_30~5140



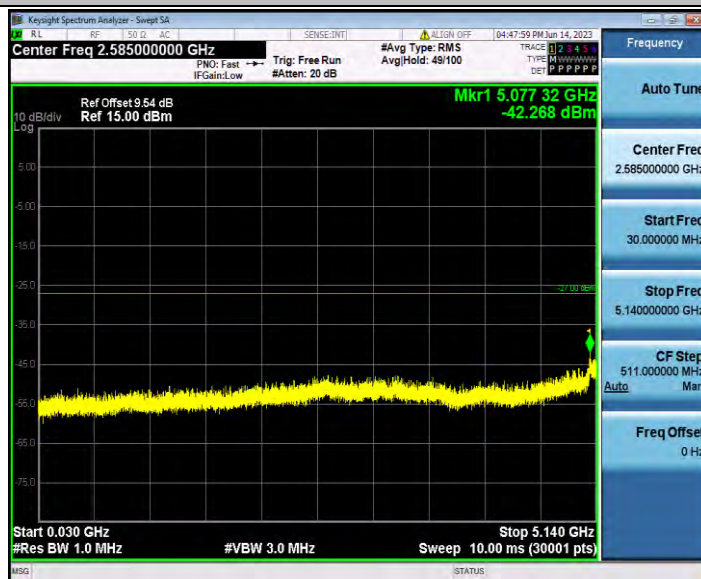
11N20SISO_Ant1_5180_5360~40000



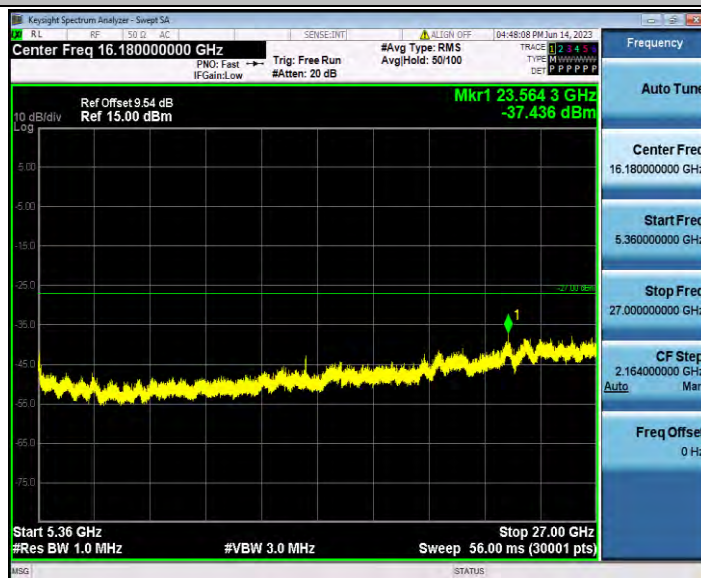
11N20SISO_Ant1_5200_30~5140



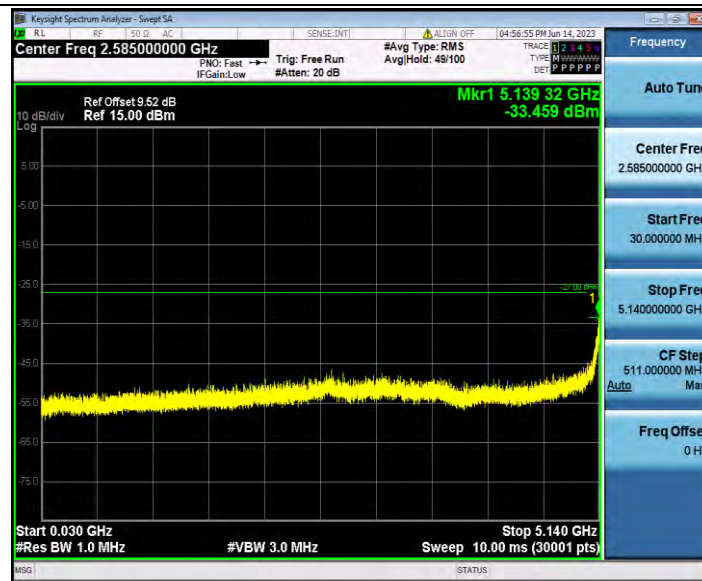
11N20SISO_Ant1_5200_5360~40000



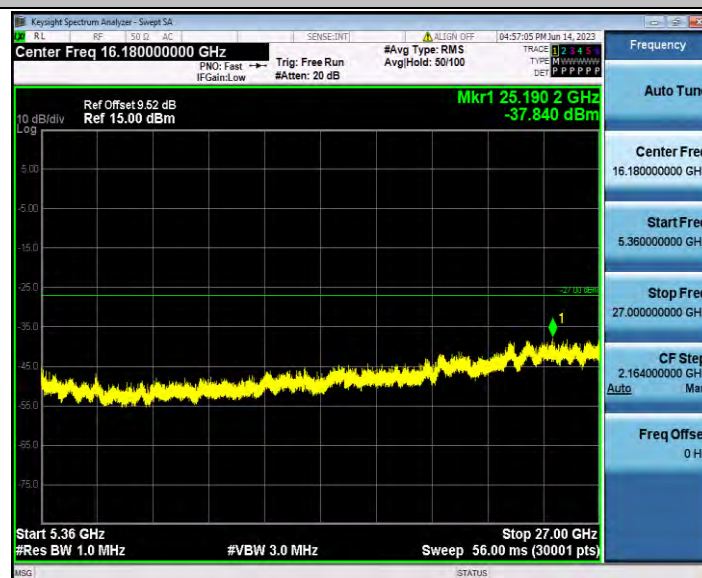
11N20SISO_Ant1_5240_30~5140



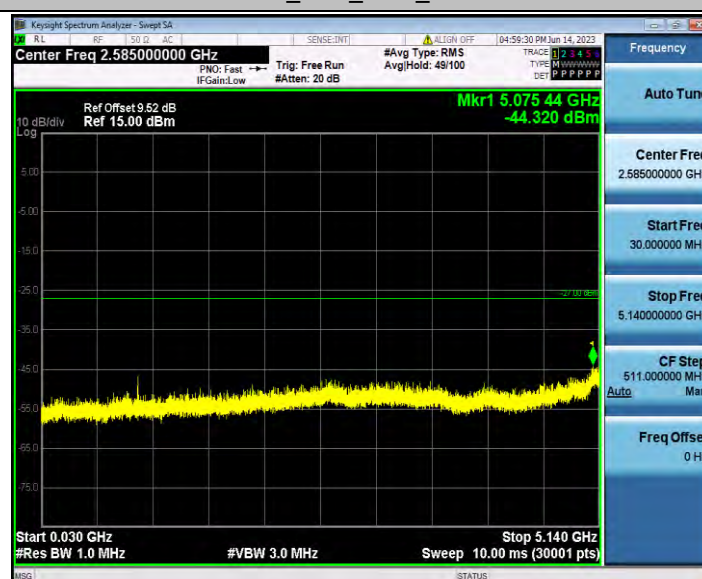
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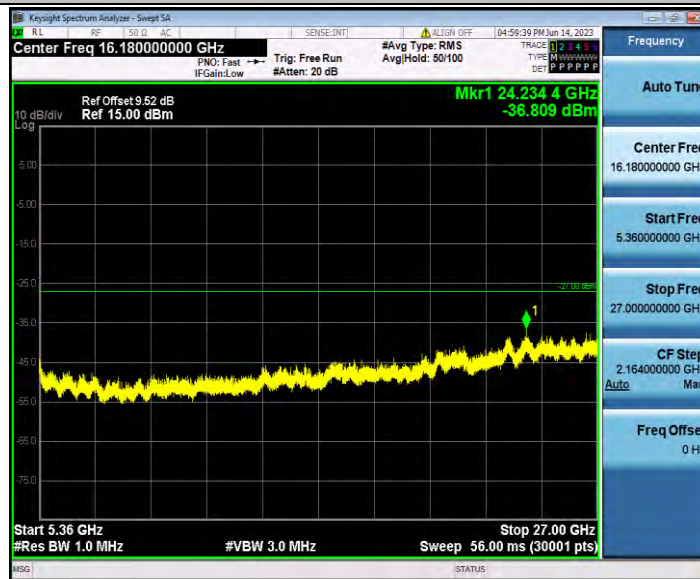
11N40SISO_Ant1_5190_30~5140



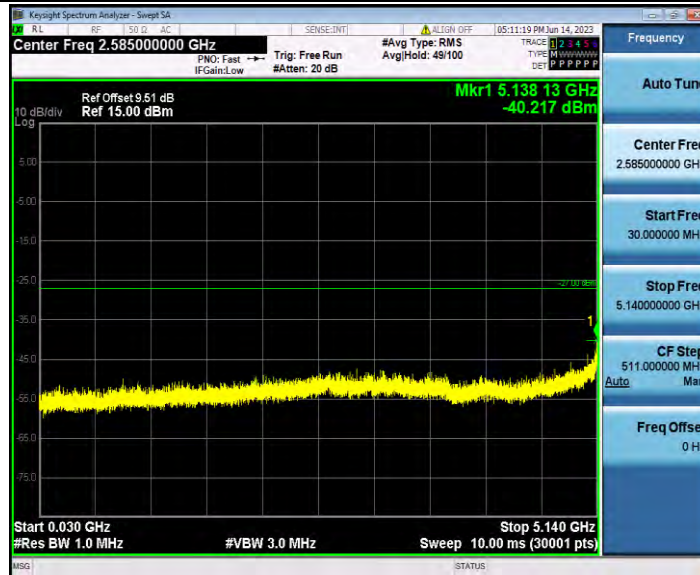
11N40SISO_Ant1_5190_5360~40000



11N40SISO_Ant1_5230_30~5140



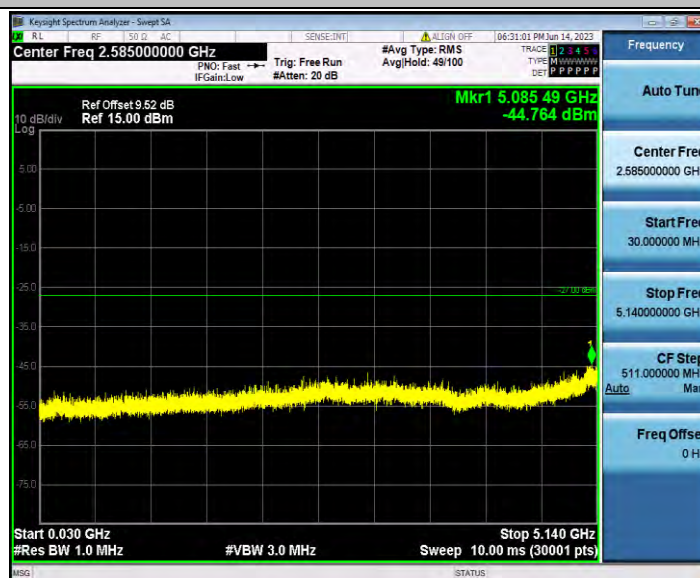
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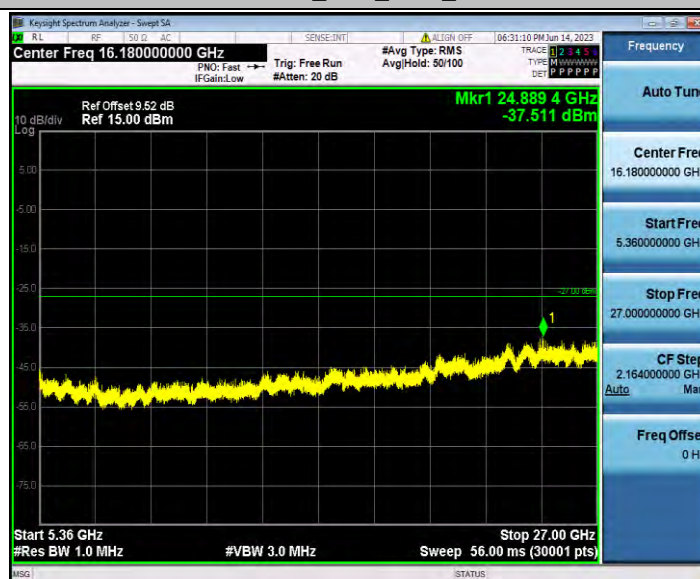
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11AC20SISO_Ant1_5180_5360~40000



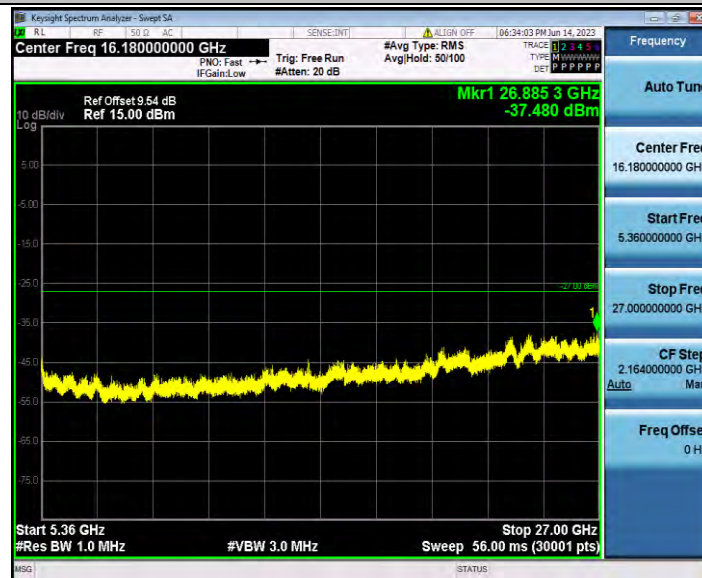
11AC20SISO_Ant1_5200_30~5140



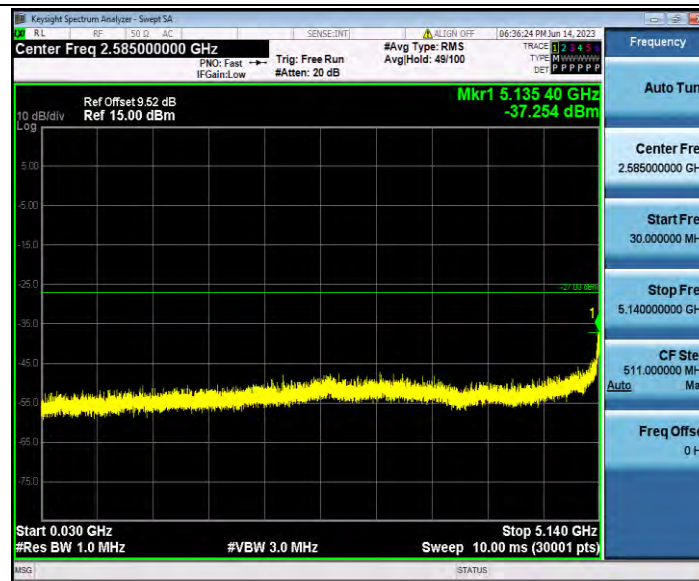
11AC20SISO_Ant1_5200_5360~40000



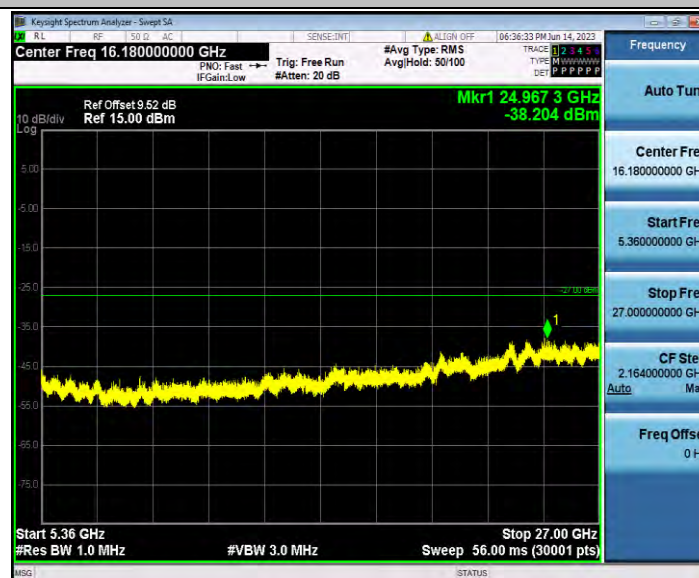
11AC20SISO_Ant1_5240_30~5140



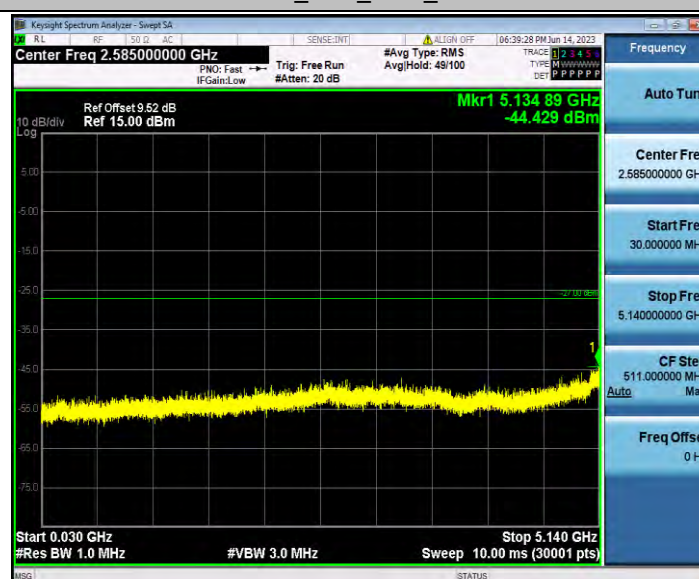
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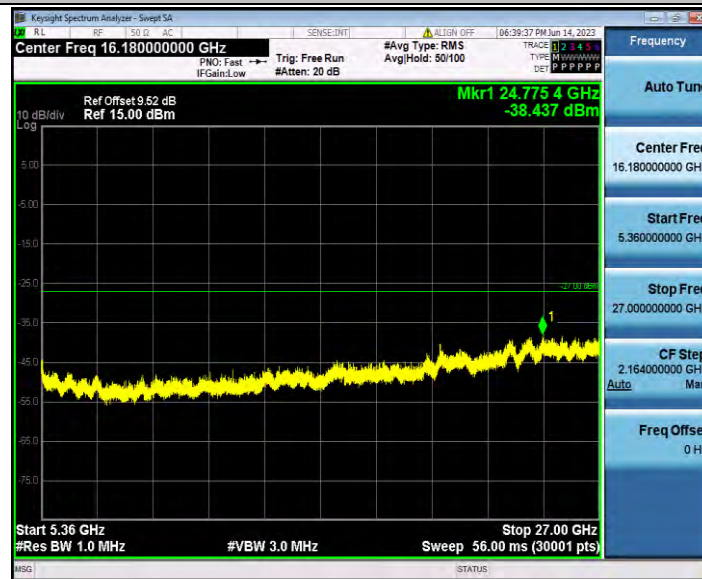
11AC40SISO_Ant1_5190_30~5140



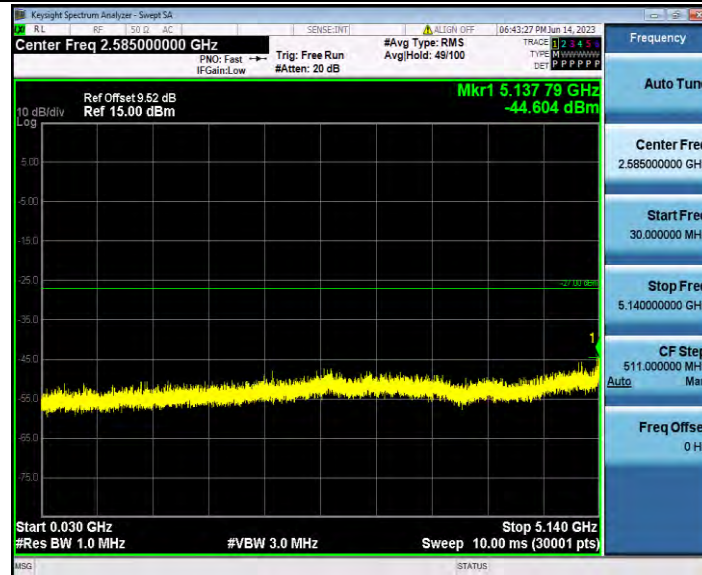
11AC40SISO_Ant1_5190_5360~40000



11AC40SISO_Ant1_5230_30~5140



11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_30~5140

