

Case No. : <u>GTS20230224006-1-4</u>	
Ambient Condition: <u>25</u> °C, <u>52</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.3.16</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	22.600	5168.440	5191.040	---	---
		5200	22.880	5188.840	5211.720	---	---
		5240	22.240	5228.960	5251.200	---	---
11N20SISO	Ant1	5180	22.000	5169.040	5191.040	---	---
		5200	23.120	5188.480	5211.600	---	---
		5240	21.680	5228.920	5250.600	---	---
11N40SISO	Ant1	5190	40.640	5169.920	5210.560	---	---
		5230	40.880	5209.360	5250.240	---	---
11AC20SISO	Ant1	5180	21.840	5169.120	5190.960	---	---
		5200	21.800	5189.040	5210.840	---	---
		5240	22.440	5228.400	5250.840	---	---
11AC40SISO	Ant1	5190	41.440	5169.280	5210.720	---	---
		5230	41.760	5208.960	5250.720	---	---
11AC80SISO	Ant1	5210	81.280	5169.200	5250.480	---	---

Test Graphs

11A_Ant1_5180



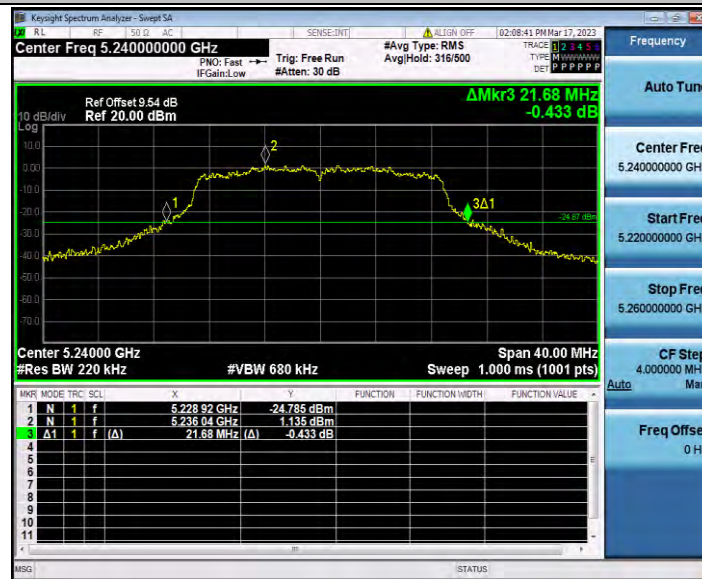
11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



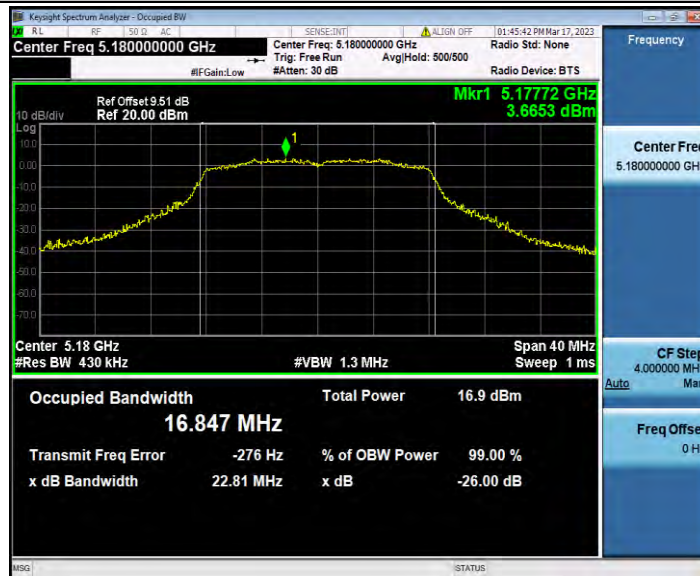
Appendix D.2: Occupied channel bandwidth

Test Result

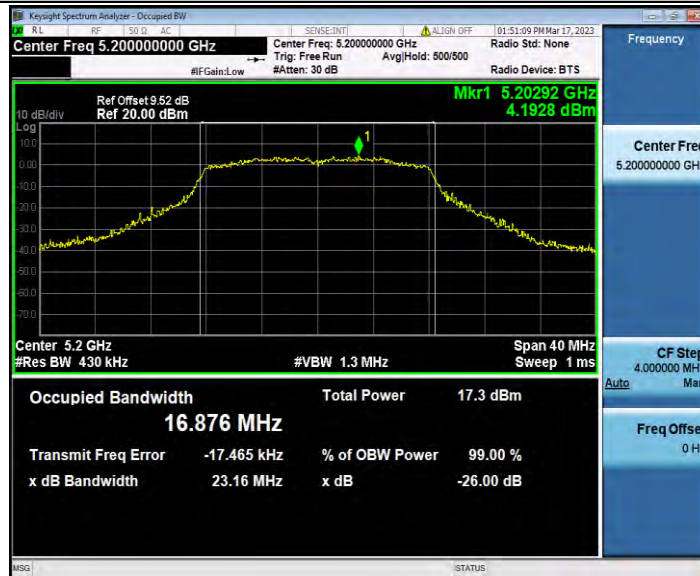
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.847	5171.576	5188.423	---	---
		5200	16.876	5191.545	5208.421	---	---
		5240	16.877	5231.527	5248.404	---	---
11N20SISO	Ant1	5180	17.946	5171.020	5188.966	---	---
		5200	17.962	5191.015	5208.977	---	---
		5240	17.992	5230.977	5248.969	---	---
11N40SISO	Ant1	5190	36.231	5171.882	5208.113	---	---
		5230	36.237	5211.848	5248.085	---	---
11AC20SISO	Ant1	5180	18.003	5170.993	5188.996	---	---
		5200	17.991	5190.987	5208.978	---	---
		5240	18.001	5230.971	5248.972	---	---
11AC40SISO	Ant1	5190	36.184	5171.921	5208.105	---	---
		5230	36.255	5211.835	5248.090	---	---
11AC80SISO	Ant1	5210	75.237	5172.415	5247.652	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



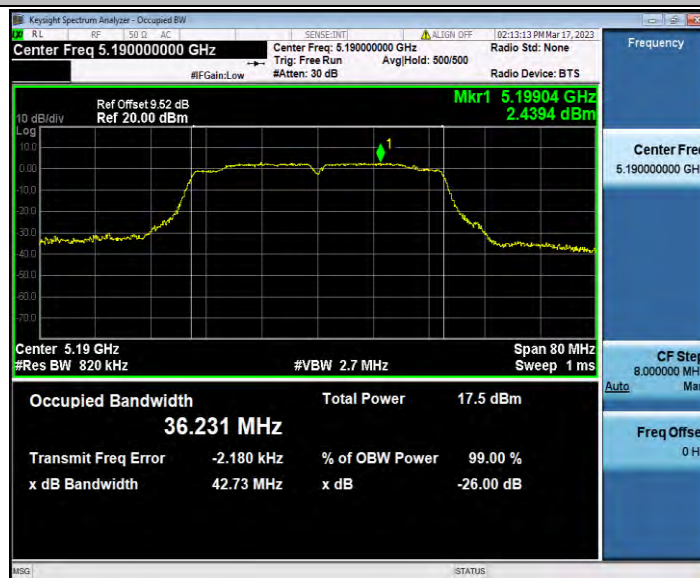
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



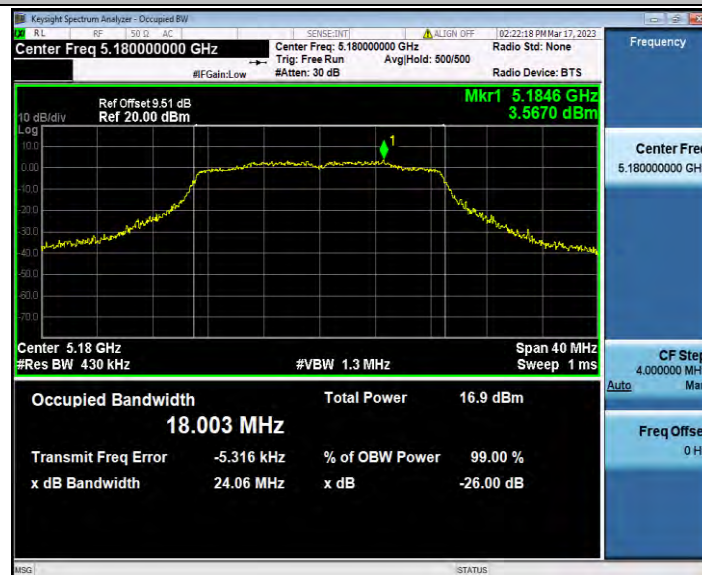
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



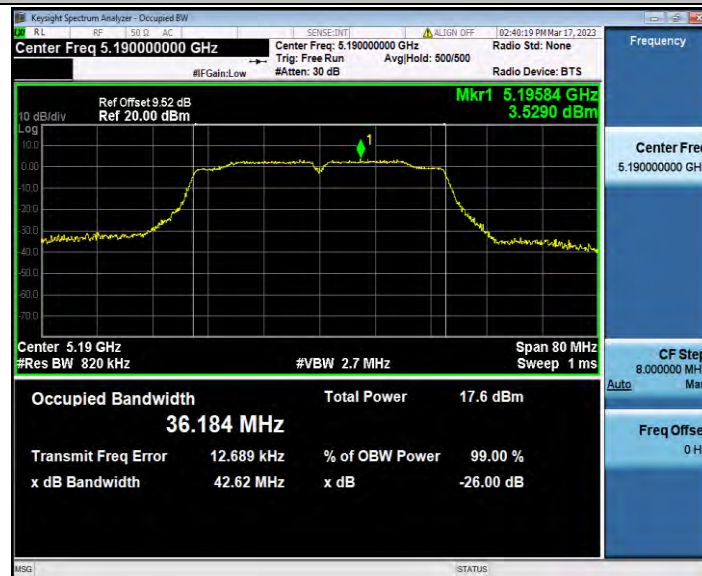
11AC20SISO_Ant1_5200



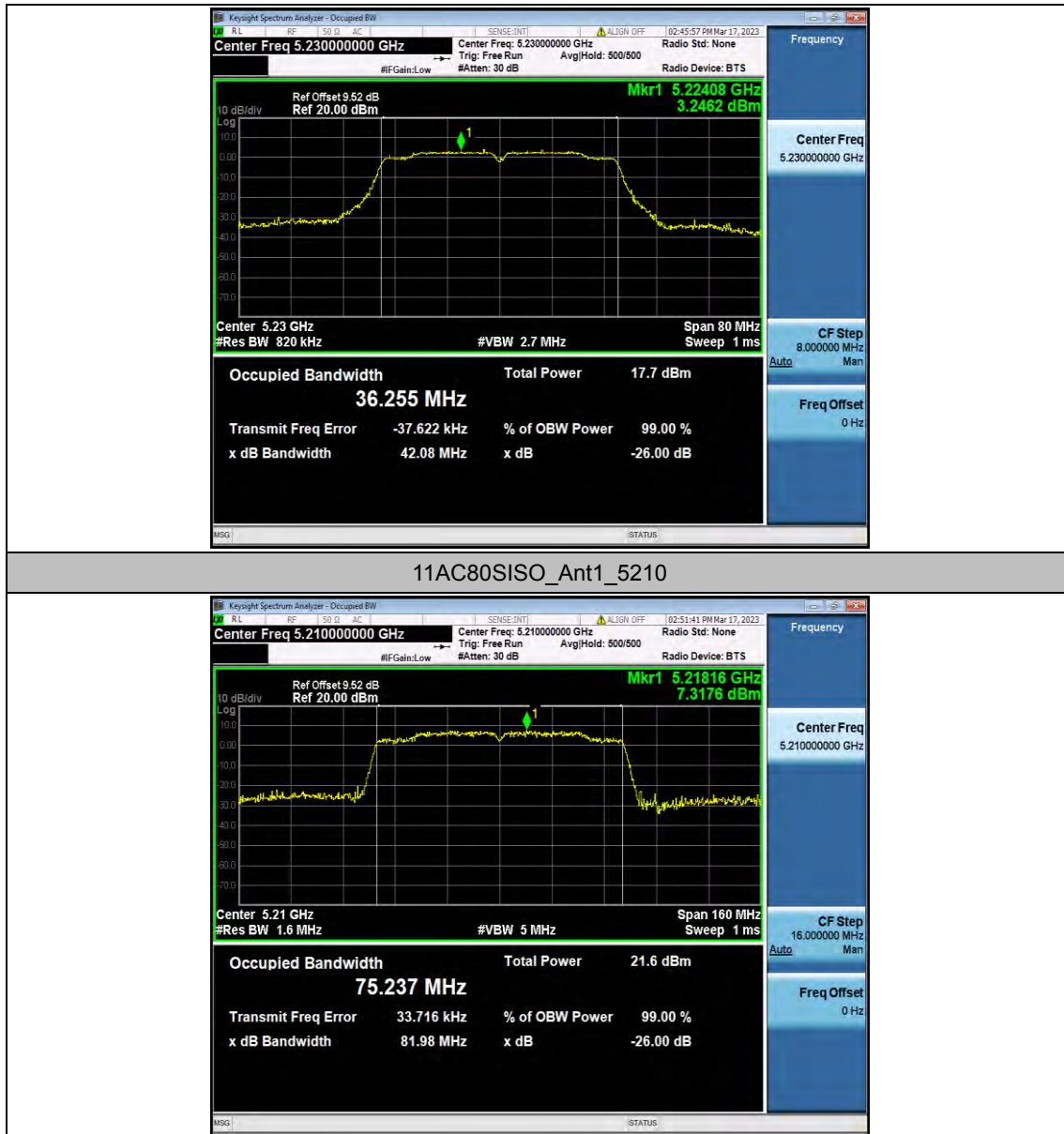
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



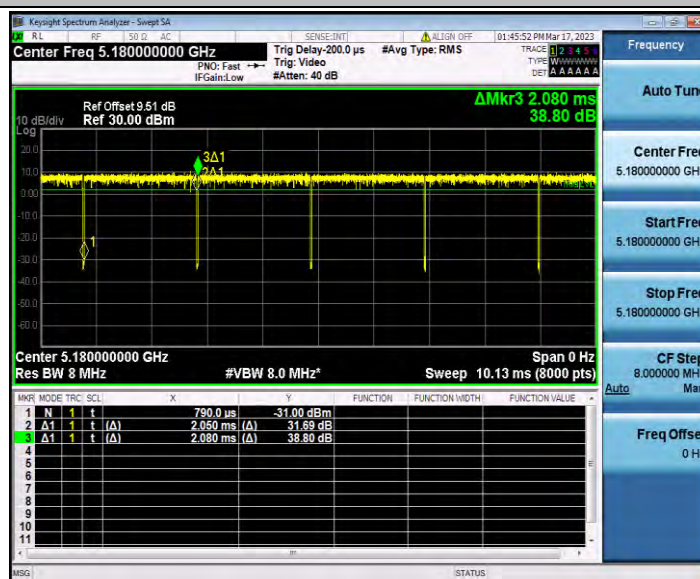
Appendix D.3: Duty Cycle

Test Result

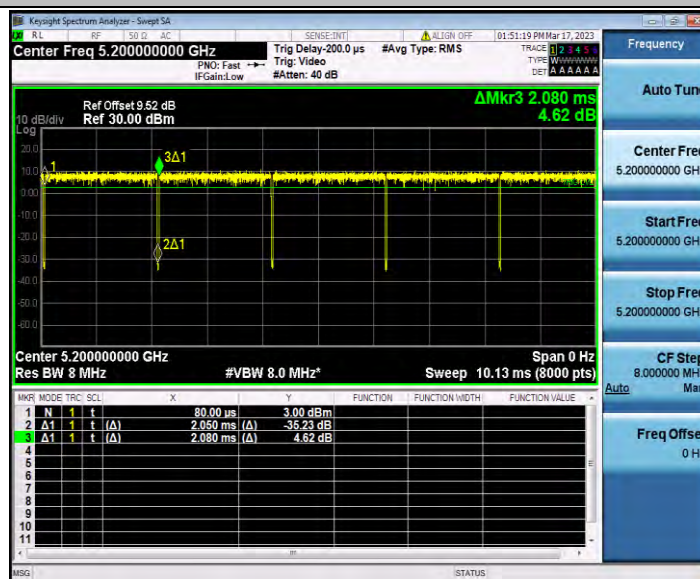
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.05	2.08	98.56
		5200	2.05	2.08	98.56
		5240	2.05	2.08	98.56
11N20SISO	Ant1	5180	1.91	1.94	98.45
		5200	1.91	1.93	98.96
		5240	1.91	1.94	98.45
11N40SISO	Ant1	5190	0.94	0.96	97.92
		5230	0.94	0.97	96.91
11AC20SISO	Ant1	5180	1.92	1.95	98.46
		5200	1.91	1.94	98.45
		5240	1.92	1.95	98.46
11AC40SISO	Ant1	5190	0.94	0.97	96.91
		5230	0.95	0.97	97.94
11AC80SISO	Ant1	5210	0.44	0.47	93.62

Test Graphs

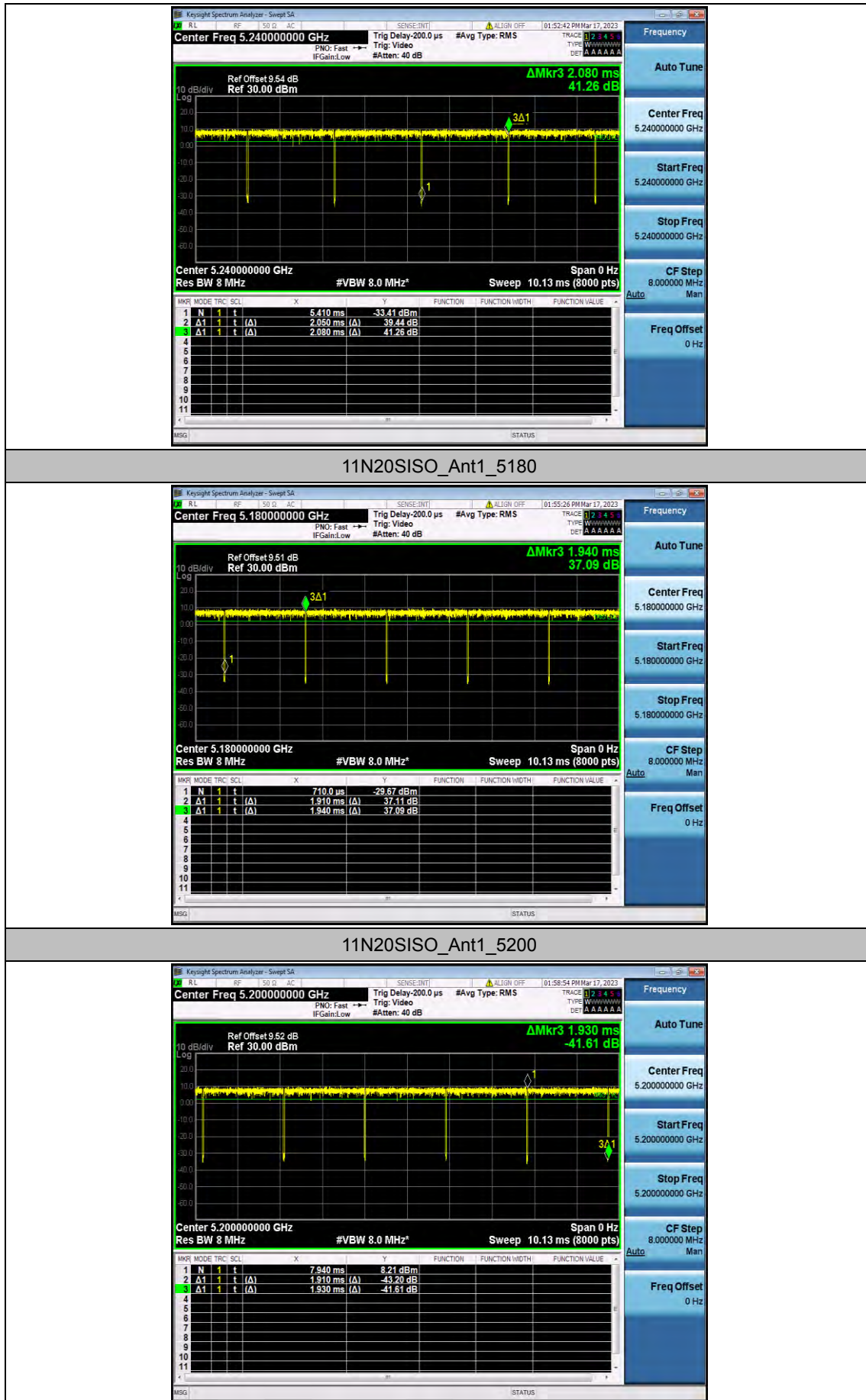
11A_Ant1_5180



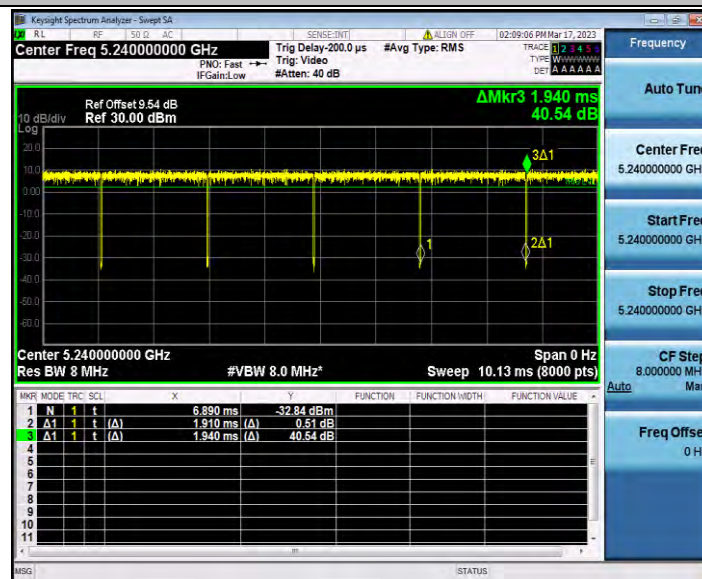
11A_Ant1_5200



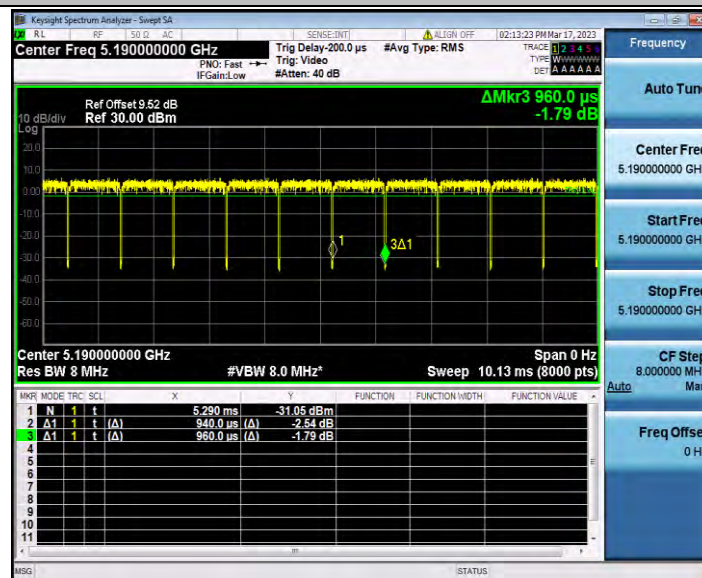
11A_Ant1_5240



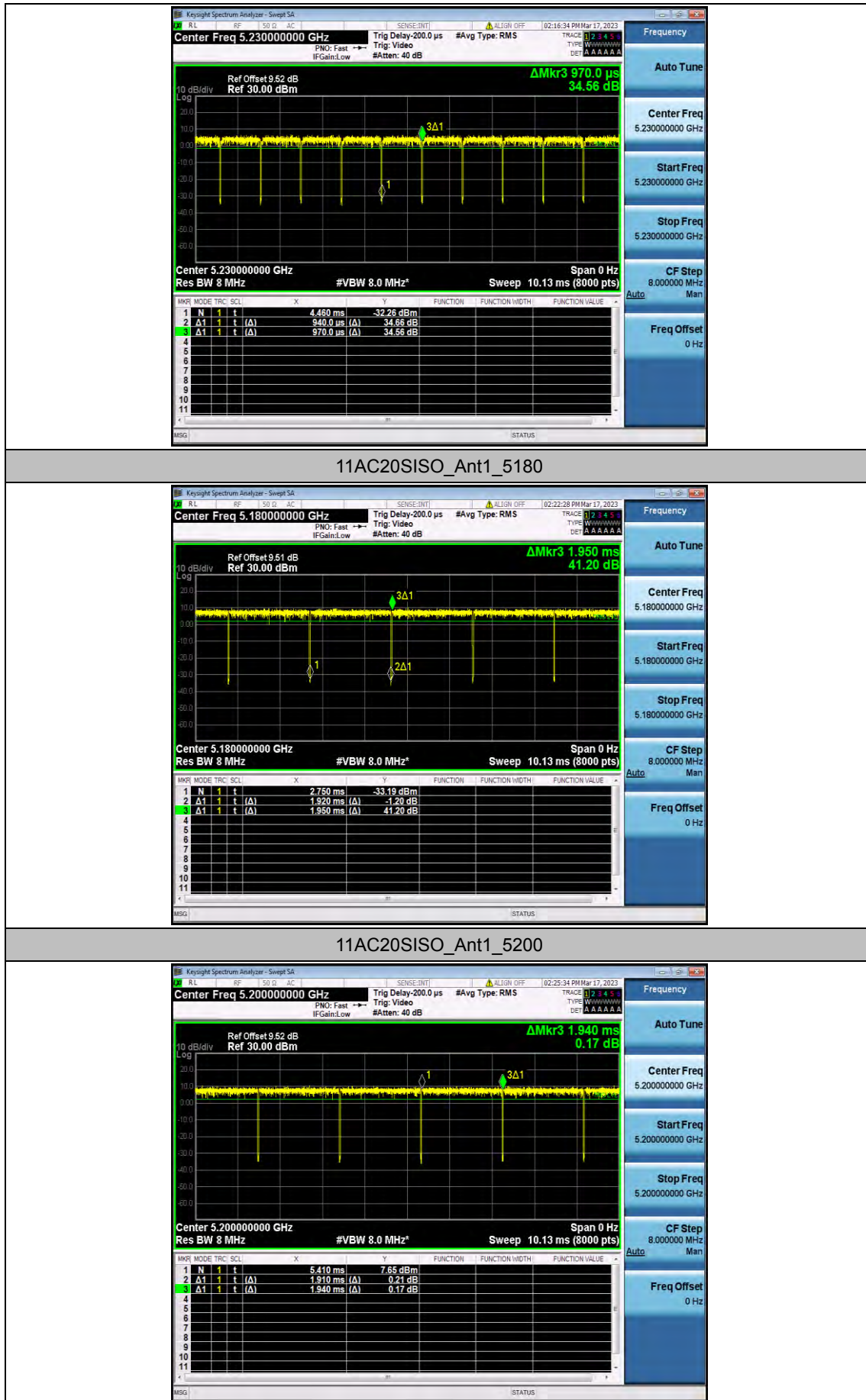
11N20SISO_Ant1_5240

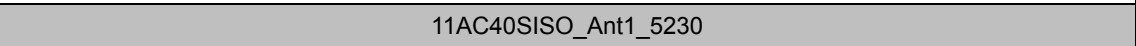
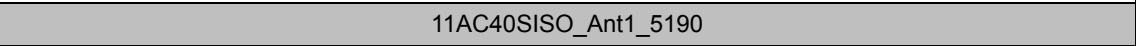


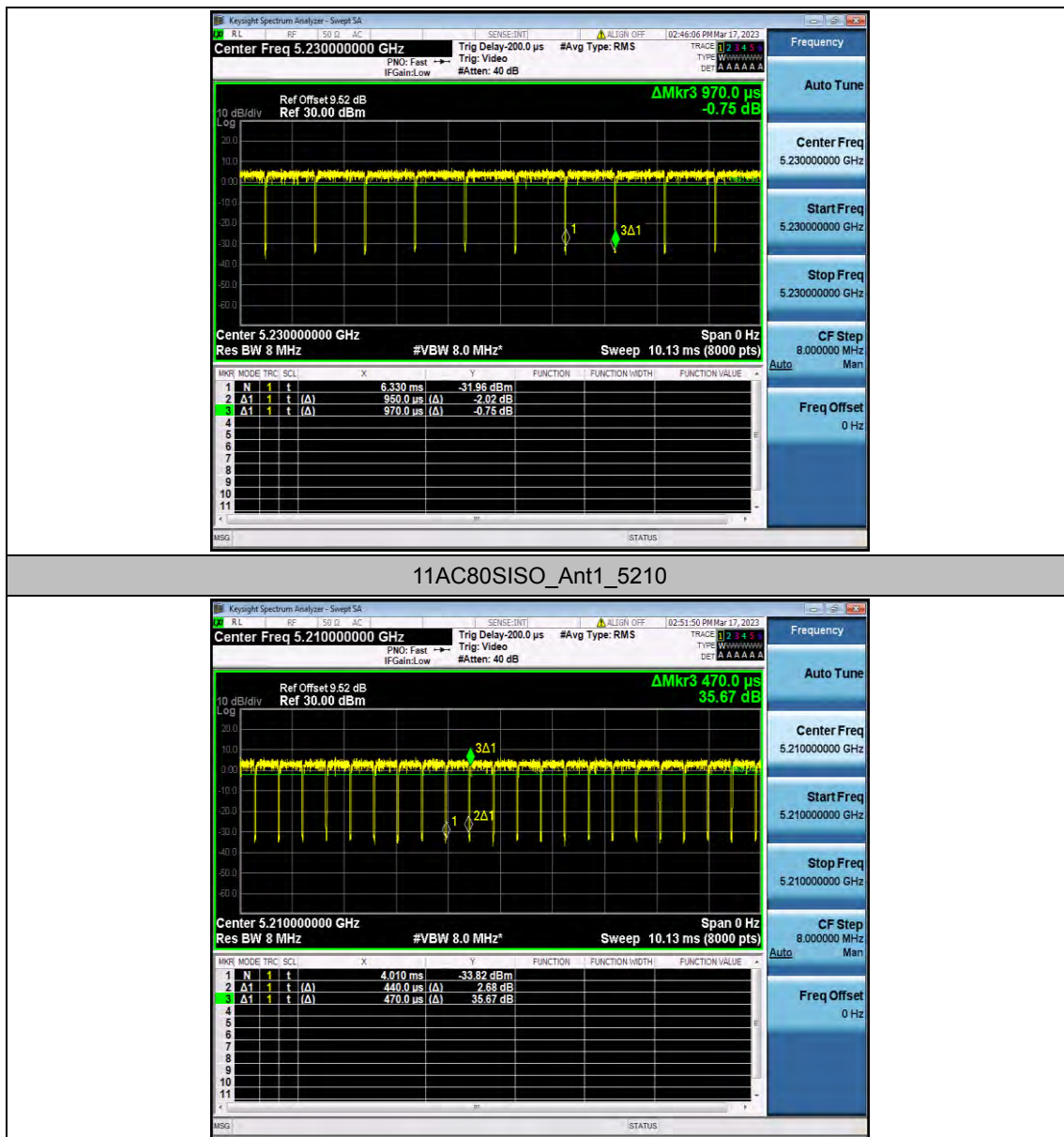
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230







Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[M Hz]	Channel Powert [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	10.08	98.56	0.06	10.14	≤23.98	PASS
		5200	10.43	98.56	0.06	10.49	≤23.98	PASS
		5240	10.45	98.56	0.06	10.51	≤23.98	PASS
11N20SISO	Ant1	5180	10.07	98.45	0.07	10.14	≤23.98	PASS
		5200	10.34	98.96	0.05	10.39	≤23.98	PASS
		5240	10.34	98.45	0.07	10.41	≤23.98	PASS
11N40SISO	Ant1	5190	9.90	97.92	0.09	9.99	≤23.98	PASS
		5230	10.09	96.91	0.14	10.23	≤23.98	PASS
11AC20SISO	Ant1	5180	10.04	98.46	0.07	10.11	≤23.98	PASS
		5200	10.43	98.45	0.07	10.50	≤23.98	PASS
		5240	10.38	98.46	0.07	10.45	≤23.98	PASS
11AC40SISO	Ant1	5190	10.02	96.91	0.14	10.16	≤23.98	PASS
		5230	10.19	97.94	0.09	10.28	≤23.98	PASS
11AC80SISO	Ant1	5210	12.28	93.62	0.29	12.57	≤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	-0.36	≤11.00	PASS
		5200	-0.56	≤11.00	PASS
		5240	-0.44	≤11.00	PASS
11N20SISO	Ant1	5180	-1.1	≤11.00	PASS
		5200	-0.86	≤11.00	PASS
		5240	-0.77	≤11.00	PASS
11N40SISO	Ant1	5190	-4.37	≤11.00	PASS
		5230	-4.24	≤11.00	PASS
11AC20SISO	Ant1	5180	-1.13	≤11.00	PASS
		5200	-0.79	≤11.00	PASS
		5240	-0.76	≤11.00	PASS
11AC40SISO	Ant1	5190	-4.25	≤11.00	PASS
		5230	-4.21	≤11.00	PASS
11AC80SISO	Ant1	5210	-4.66	≤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_5180



11N20SISO_Ant1_5200



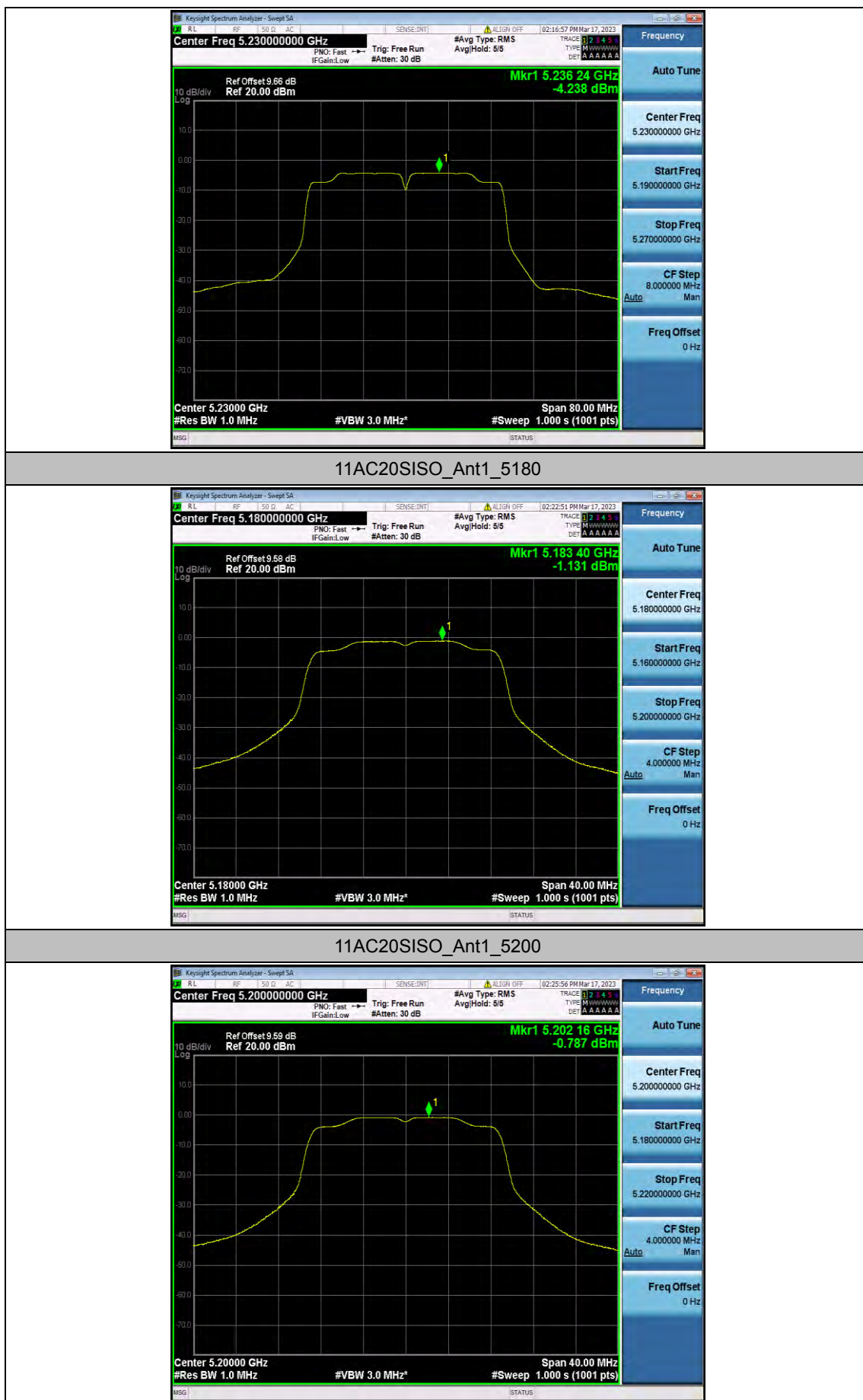
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



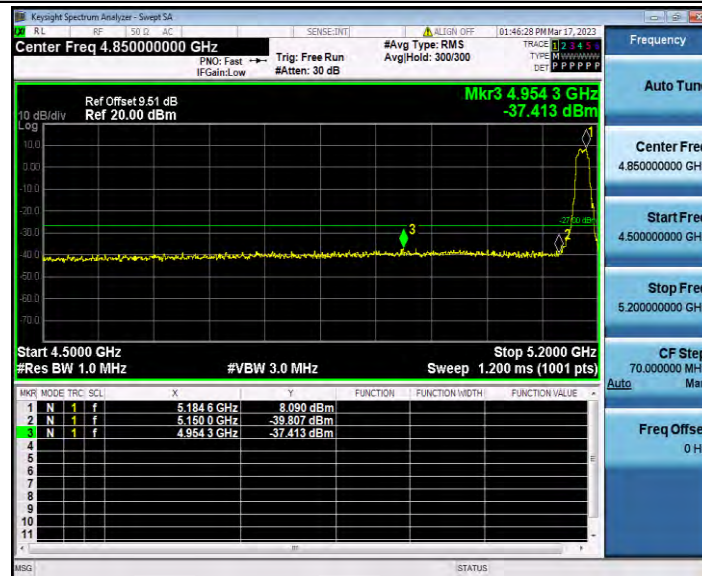
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-37.41	≤ -27	PASS
		High	5240	-37.21	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-37.18	≤ -27	PASS
		High	5240	-37.8	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-33.85	≤ -27	PASS
		High	5230	-37.99	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-35.97	≤ -27	PASS
		High	5240	-36.82	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-32.78	≤ -27	PASS
		High	5230	-37.76	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-37.41	≤ -27	PASS
		High	5210	-36.43	≤ -27	PASS

Test Graphs B1/2/3

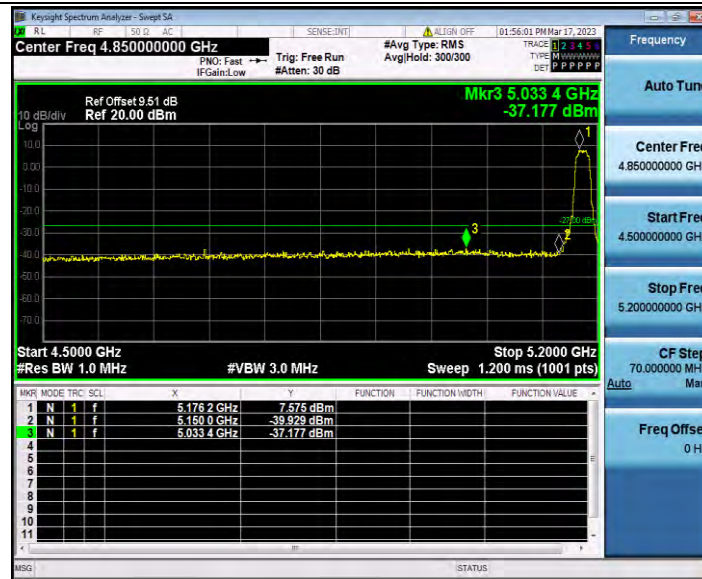
11A_Ant1_Low_5180



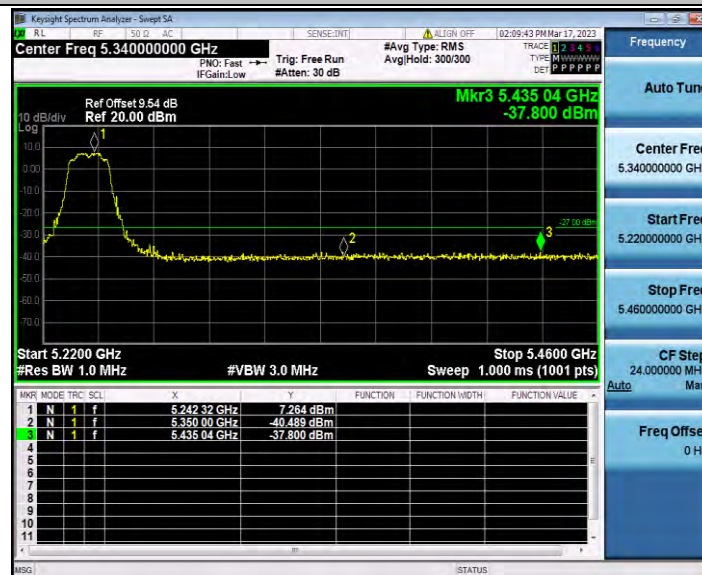
11A_Ant1_High_5240



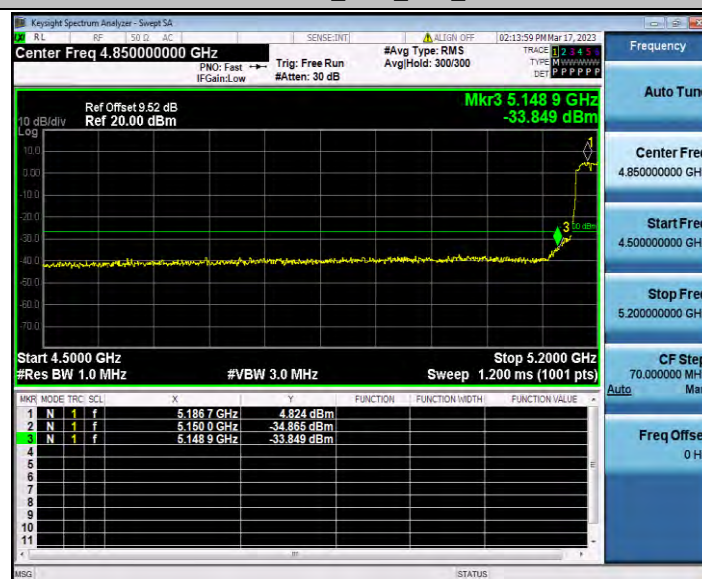
11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



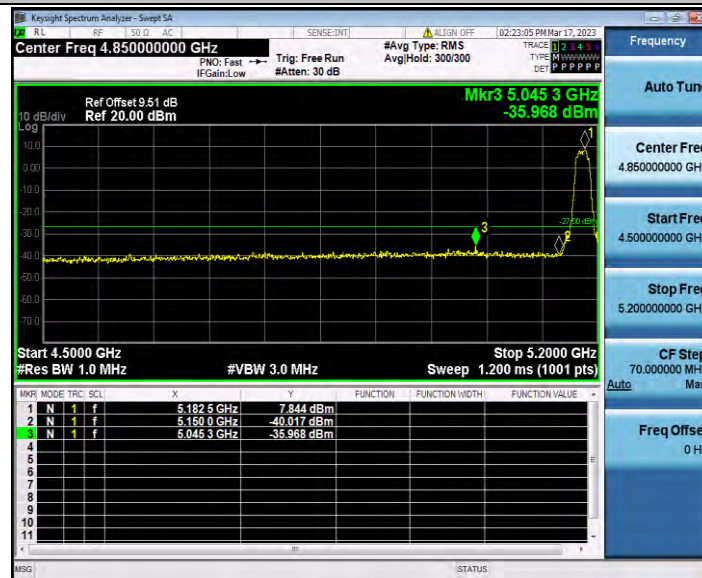
11N40SISO_Ant1_Low_5190



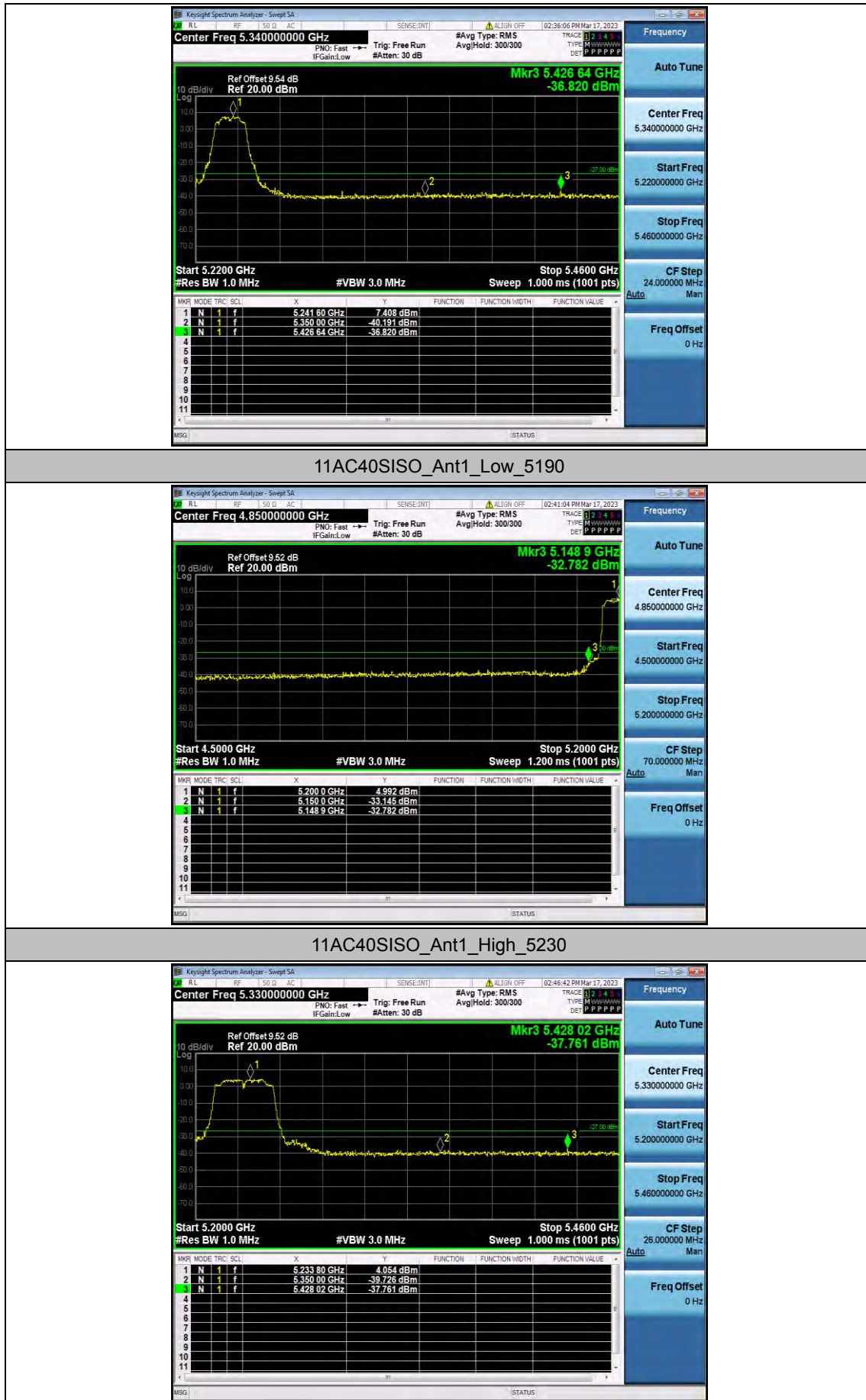
11N40SISO_Ant1_High_5230



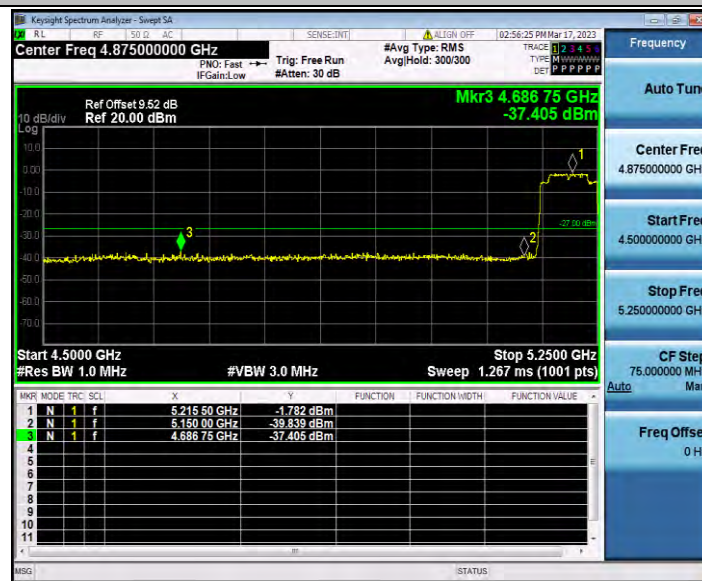
11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



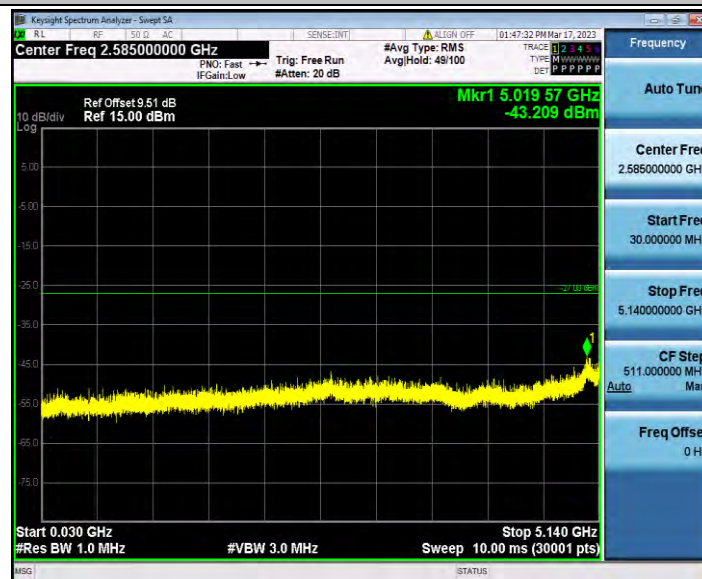
Appendix D.7: Conducted Spurious Emission

Test Result

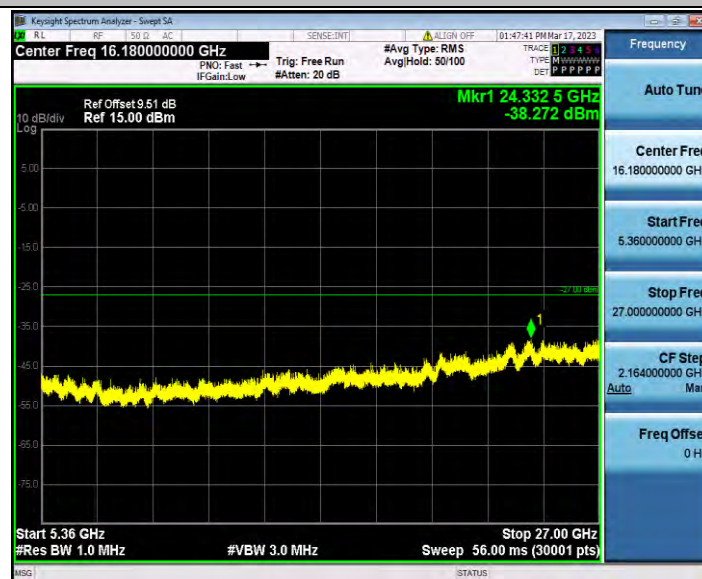
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5019.57	-43.21	≤-27	PASS
			5360~40000	24332.51	-38.27	≤-27	PASS
		5200	30~5140	5036.61	-43.66	≤-27	PASS
			5360~40000	24792	-37.91	≤-27	PASS
		5240	30~5140	5084.13	-44.01	≤-27	PASS
			5360~40000	26063.71	-37.71	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5017.7	-43.26	≤-27	PASS
			5360~40000	26554.22	-37.22	≤-27	PASS
		5200	30~5140	5067.27	-44.41	≤-27	PASS
			5360~40000	25195.22	-38.47	≤-27	PASS
		5240	30~5140	5088.05	-44.79	≤-27	PASS
			5360~40000	24169.49	-37.01	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5140	-41.47	≤-27	PASS
			5360~40000	26762.68	-37.69	≤-27	PASS
		5230	30~5140	5070.5	-44.08	≤-27	PASS
			5360~40000	24264.7	-37.81	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5129.61	-43.32	≤-27	PASS
			5360~40000	24224.31	-38.09	≤-27	PASS
		5200	30~5140	5036.27	-43.65	≤-27	PASS
			5360~40000	24173.82	-37.78	≤-27	PASS
		5240	30~5140	5083.96	-44.59	≤-27	PASS
			5360~40000	26605.43	-38.28	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5139.83	-41.67	≤-27	PASS
			5360~40000	23531.11	-37.95	≤-27	PASS
		5230	30~5140	5088.56	-44.74	≤-27	PASS
			5360~40000	24754.49	-38.2	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5139.66	-28.49	≤-27	PASS
			5360~40000	26493.62	-38.35	≤-27	PASS

Test Graphs

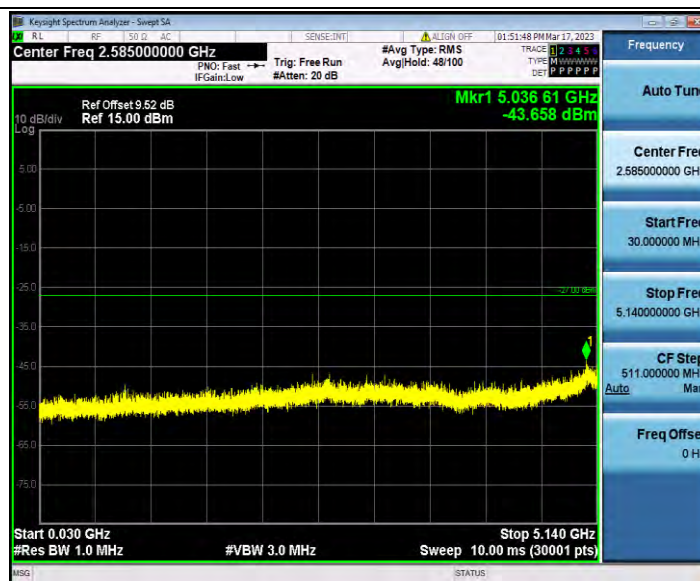
11A_Ant1_5180_30~5140



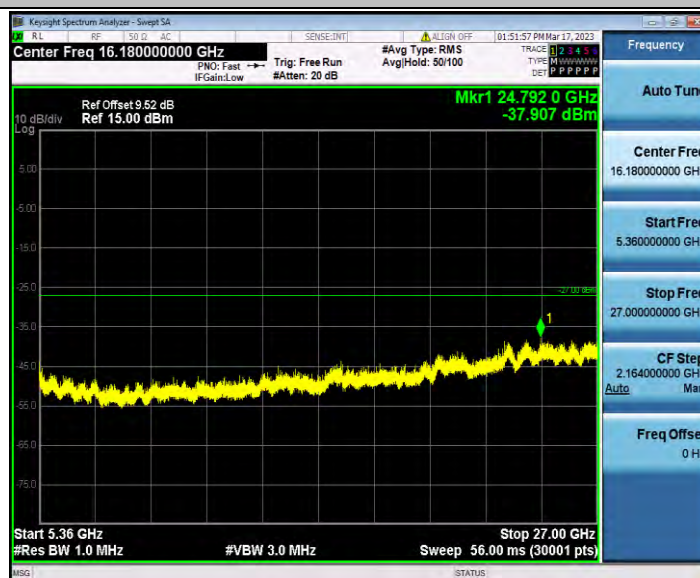
11A_Ant1_5180_5360~40000



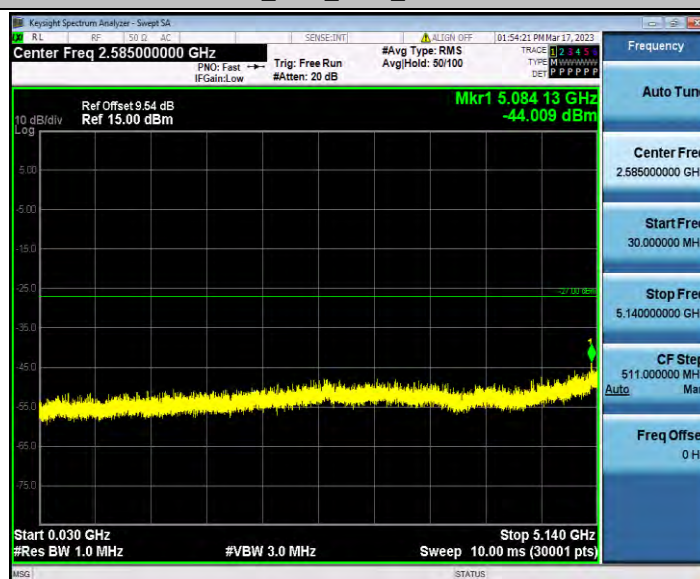
11A_Ant1_5200_30~5140



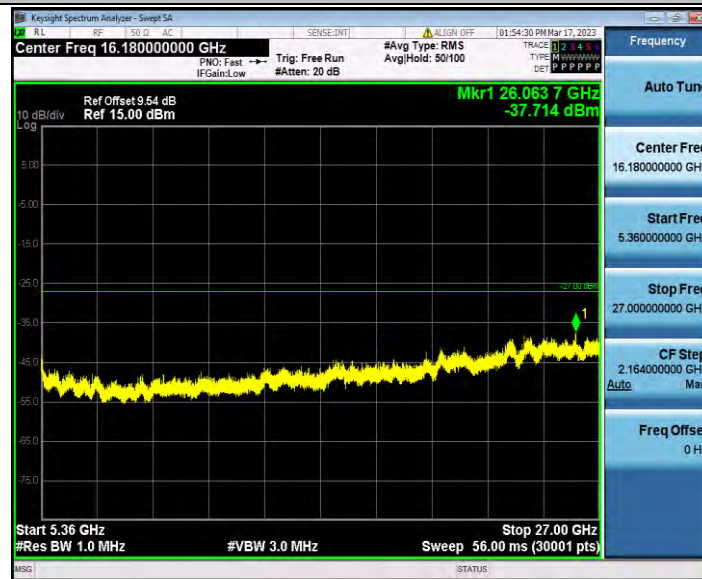
11A_Ant1_5200_5360~40000



11A_Ant1_5240_30~5140



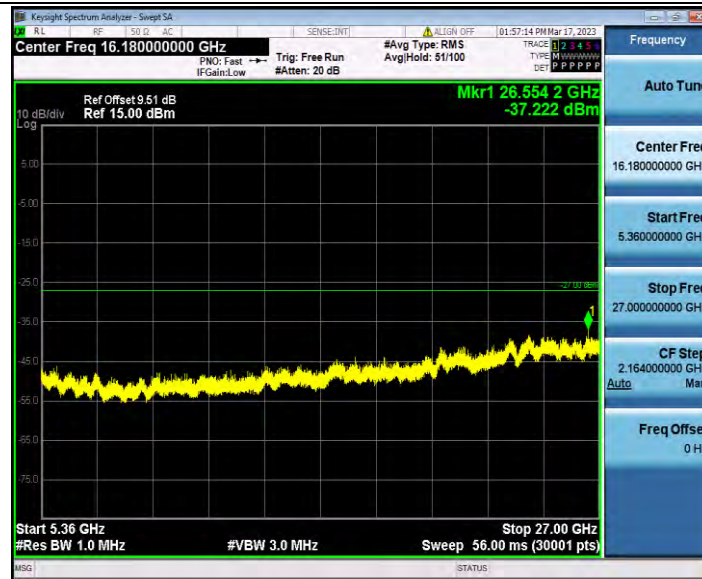
11A_Ant1_5240_5360~40000



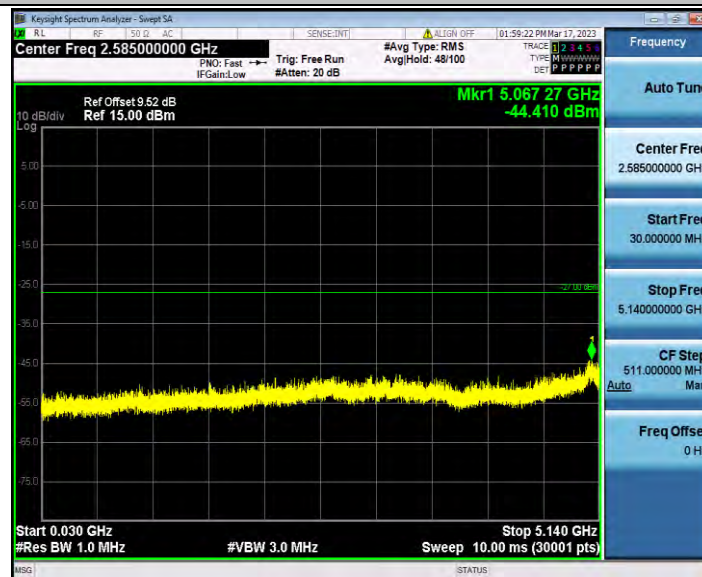
11N20SISO_Ant1_5180_30~5140



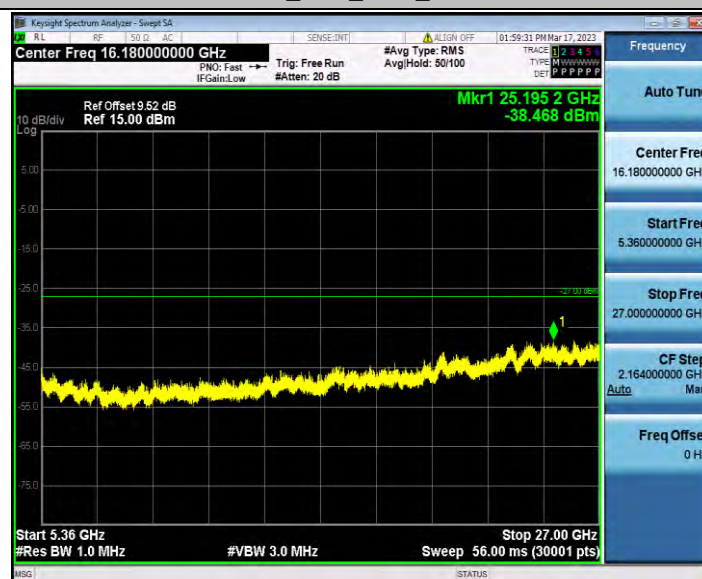
11N20SISO_Ant1_5180_5360~40000



11N20SISO_Ant1_5200_30~5140



11N20SISO_Ant1_5200_5360~40000



11N20SISO_Ant1_5240_30~5140



11N20SISO_Ant1_5240_5360~40000



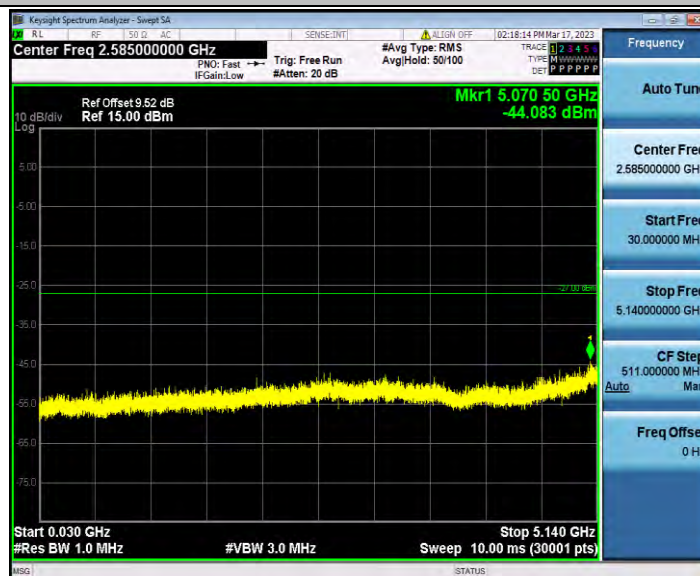
11N40SISO_Ant1_5190_30~5140



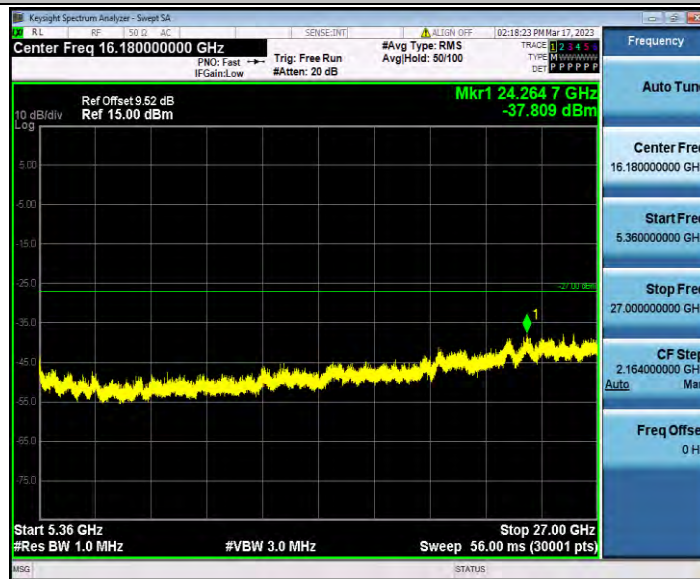
11N40SISO_Ant1_5190_5360~40000



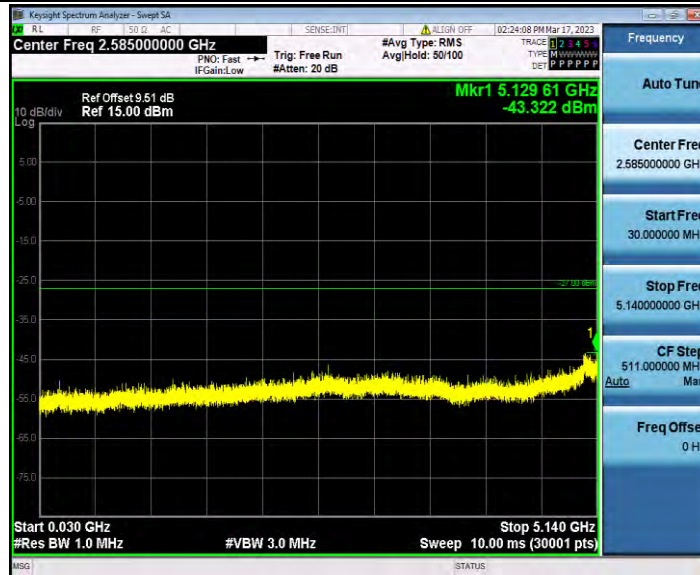
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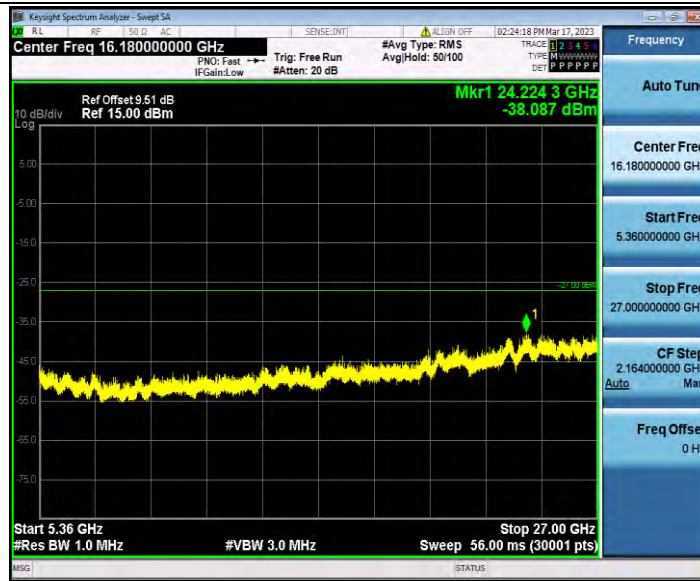
11N40SISO_Ant1_5230_5360~40000



11AC20SISO_Ant1_5180_30~5140



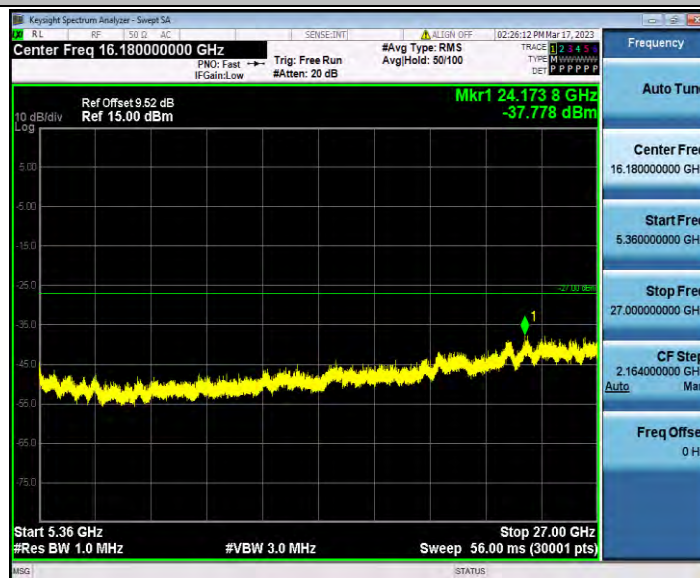
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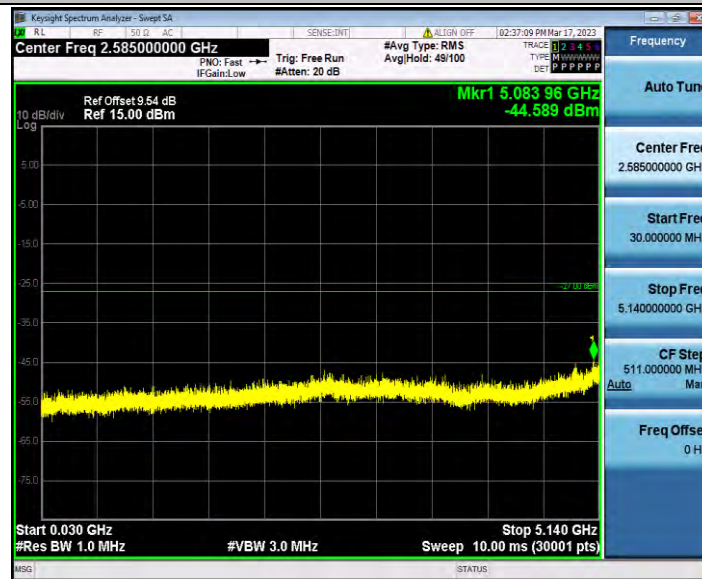
11AC20SISO_Ant1_5200_30~5140



11AC20SISO_Ant1_5200_5360~40000



11AC20SISO_Ant1_5240_30~5140



11AC20SISO_Ant1_5240_5360~40000



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



11AC80SISO_Ant1_5210_5360~40000

