

Case No. : <u>GTS20231208004-1-38</u>	
Ambient Condition: <u>22</u> °C, <u>48</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.2.18</u>	Test Engineer: <u>Evan ouyang</u>

Appendix E.1: Emission Bandwidth

Test Result

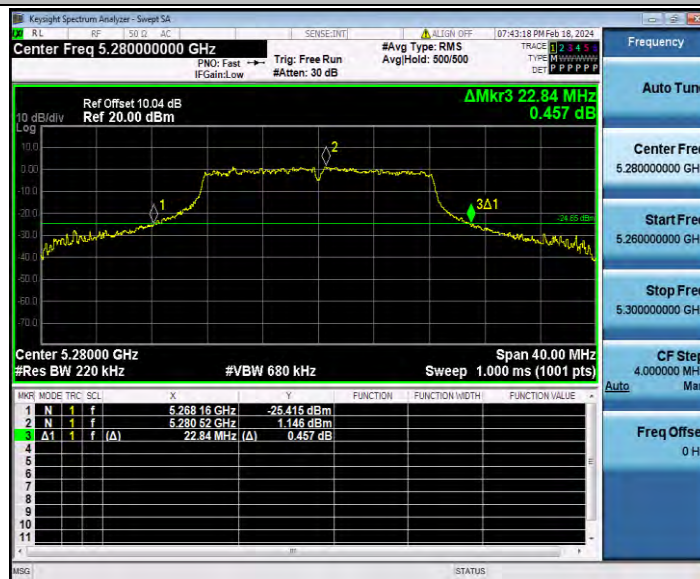
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	22.640	5248.080	5270.720	---	---
		5280	22.840	5268.160	5291.000	---	---
		5320	23.360	5308.240	5331.600	---	---
11N20SISO	Ant1	5260	23.000	5248.600	5271.600	---	---
		5280	23.280	5268.040	5291.320	---	---
		5320	23.720	5308.240	5331.960	---	---
11N40SISO	Ant1	5270	40.000	5249.920	5289.920	---	---
		5310	39.520	5290.240	5329.760	---	---
11AC20SISO	Ant1	5260	22.400	5248.720	5271.120	---	---
		5280	22.760	5268.400	5291.160	---	---
		5320	23.560	5308.120	5331.680	---	---
11AC40SISO	Ant1	5270	39.360	5250.240	5289.600	---	---
		5310	39.760	5290.160	5329.920	---	---
11AC80SISO	Ant1	5290	80.160	5250.000	5330.160	---	---
11AX20SISO	Ant1	5260	26.680	5247.200	5273.880	---	---
		5280	25.800	5266.480	5292.280	---	---
		5320	30.000	5307.040	5337.040	---	---
11AX40SISO	Ant1	5270	39.760	5250.080	5289.840	---	---
		5310	39.840	5290.160	5330.000	---	---
11AX80SISO	Ant1	5290	80.640	5249.680	5330.320	---	---

Test Graphs

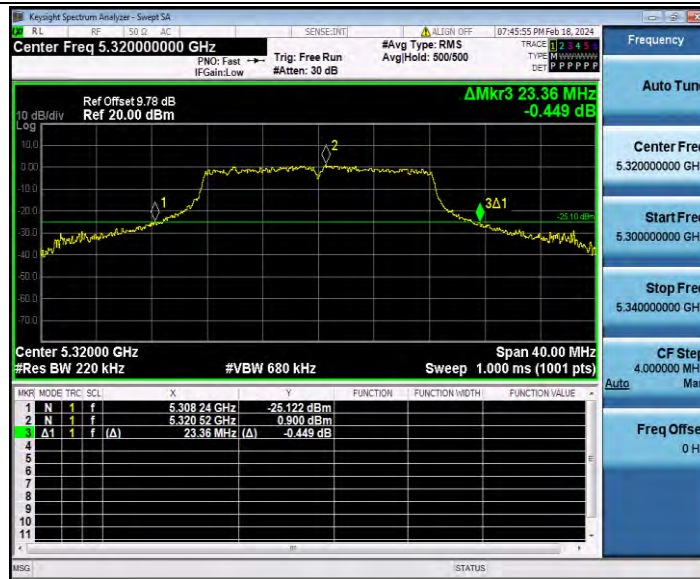
11A_Ant1_5260



11A_Ant1_5280



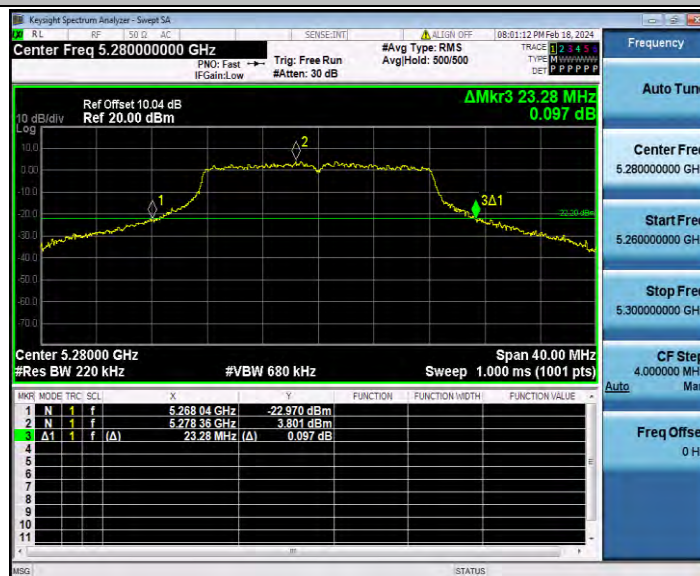
11A_Ant1_5320



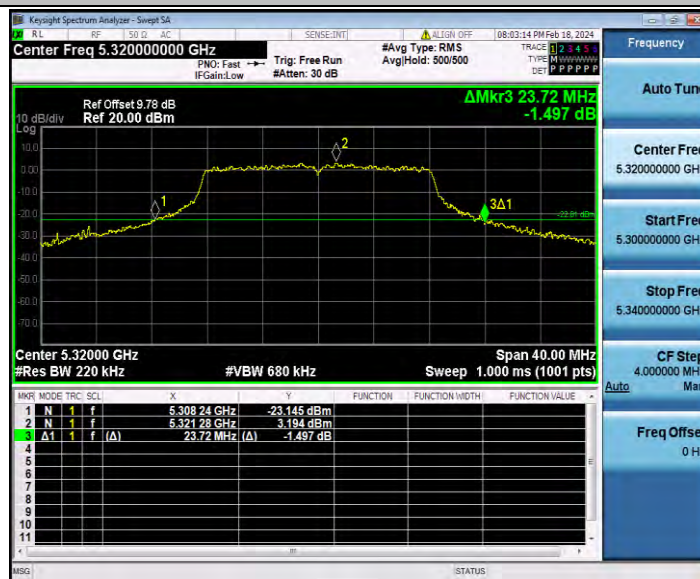
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



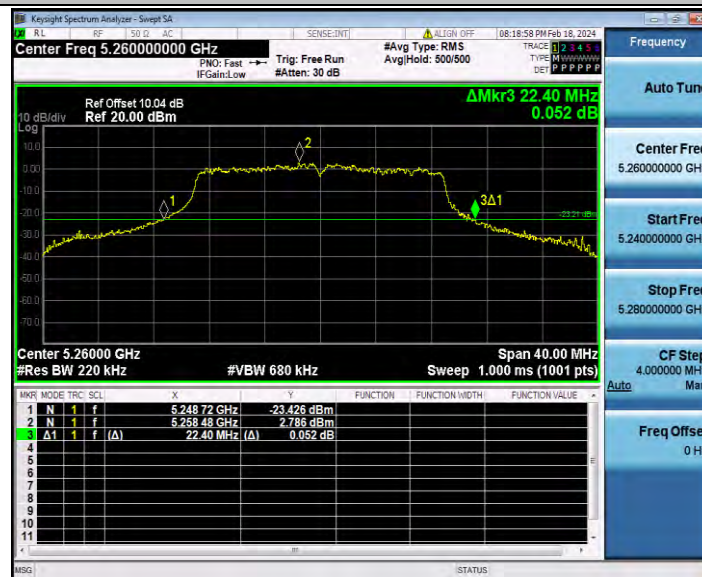
11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290



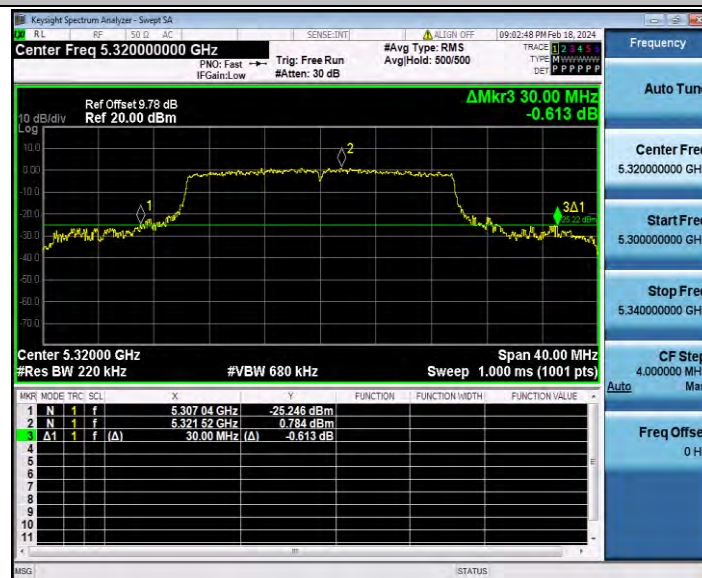
11AX20SISO_Ant1_5260



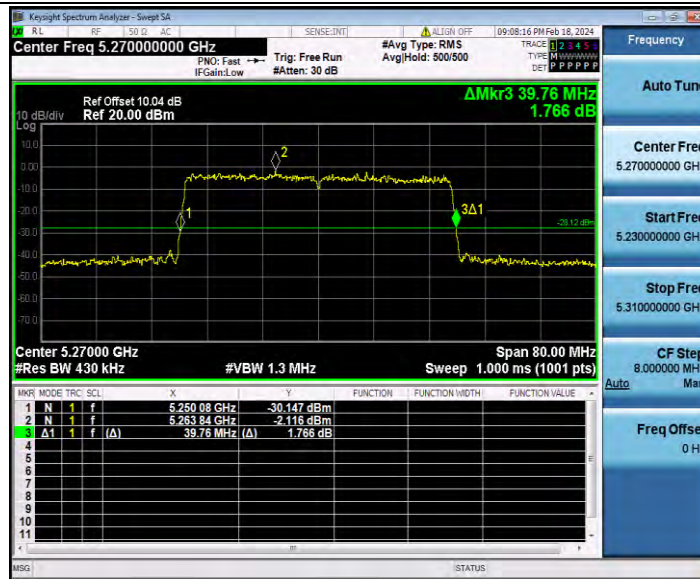
11AX20SISO_Ant1_5280



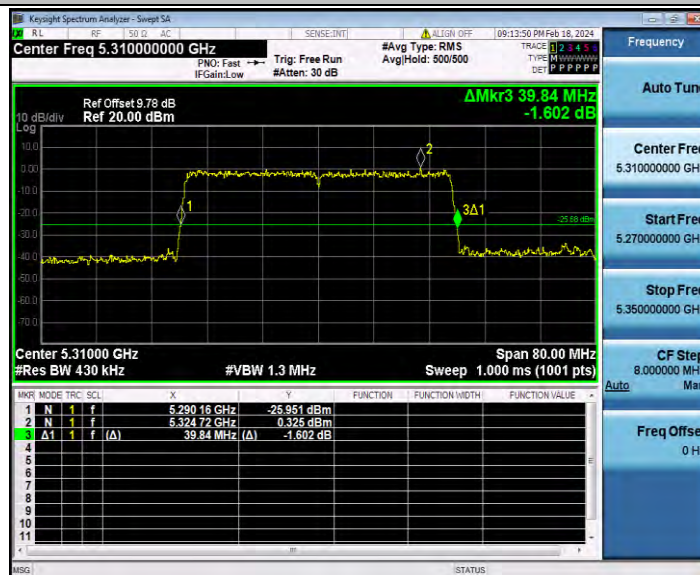
11AX20SISO_Ant1_5320



11AX40SISO_Ant1_5270



11AX40SISO_Ant1_5310



11AX80SISO_Ant1_5290

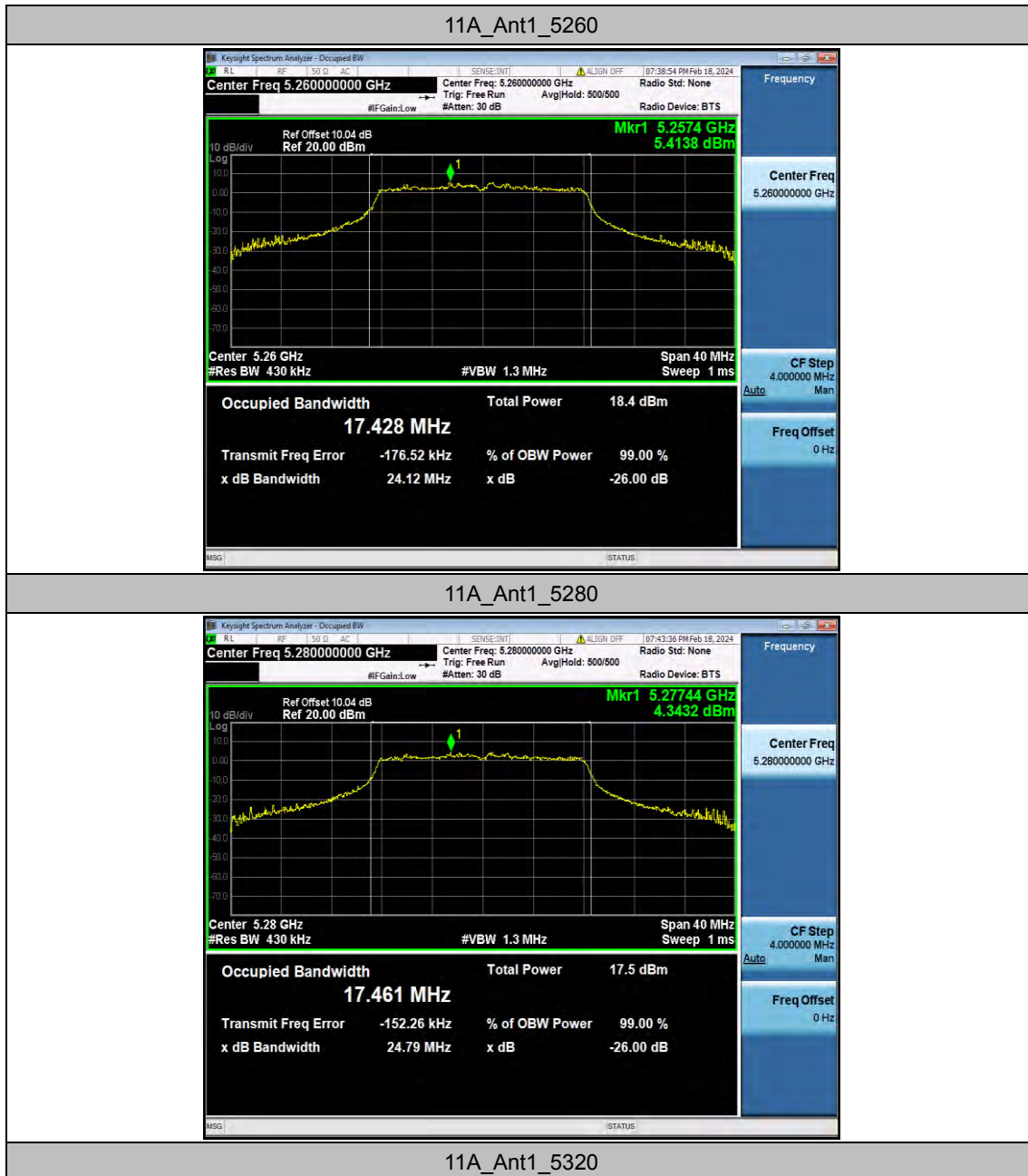


Appendix E.2: Occupied channel bandwidth

Test Result

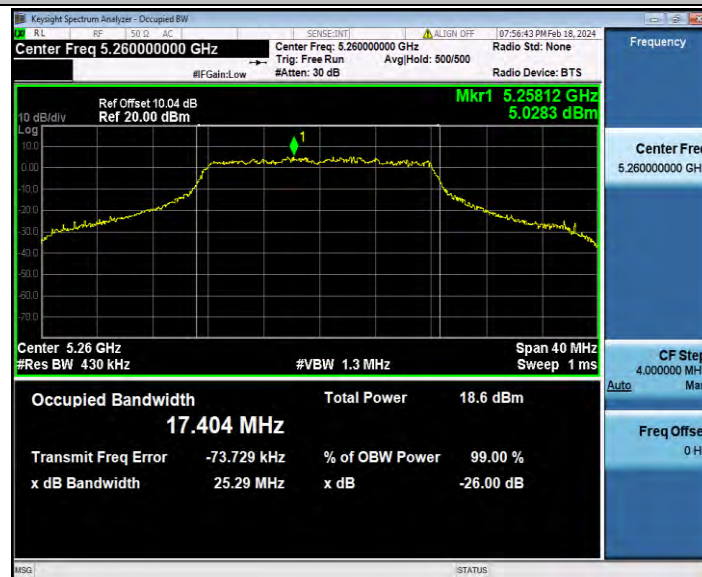
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	17.428	5251.1095	5268.5375	---	---
		5280	17.461	5271.1172	5288.5782	---	---
		5320	17.455	5311.1686	5328.6236	---	---
11N20SISO	Ant1	5260	17.404	5251.2243	5268.6283	---	---
		5280	17.525	5271.1720	5288.6970	---	---
		5320	17.567	5311.2196	5328.7866	---	---
11N40SISO	Ant1	5270	35.949	5251.9689	5287.9179	---	---
		5310	35.995	5292.0362	5328.0312	---	---
11AC20SISO	Ant1	5260	18.283	5250.7663	5269.0493	---	---
		5280	18.302	5270.7716	5289.0736	---	---
		5320	18.280	5310.8037	5329.0837	---	---
11AC40SISO	Ant1	5270	35.907	5251.9806	5287.8876	---	---
		5310	35.975	5292.0269	5328.0019	---	---
11AC80SISO	Ant1	5290	75.486	5252.1291	5327.6151	---	---
11AX20SISO	Ant1	5260	19.246	5250.3477	5269.5937	---	---
		5280	19.332	5270.2959	5289.6279	---	---
		5320	19.312	5310.3536	5329.6656	---	---
11AX40SISO	Ant1	5270	37.938	5250.9710	5288.9090	---	---
		5310	37.942	5291.0325	5328.9745	---	---
11AX80SISO	Ant1	5290	77.808	5250.9736	5328.7816	---	---

Test Graphs





11N20SISO_Ant1_5260



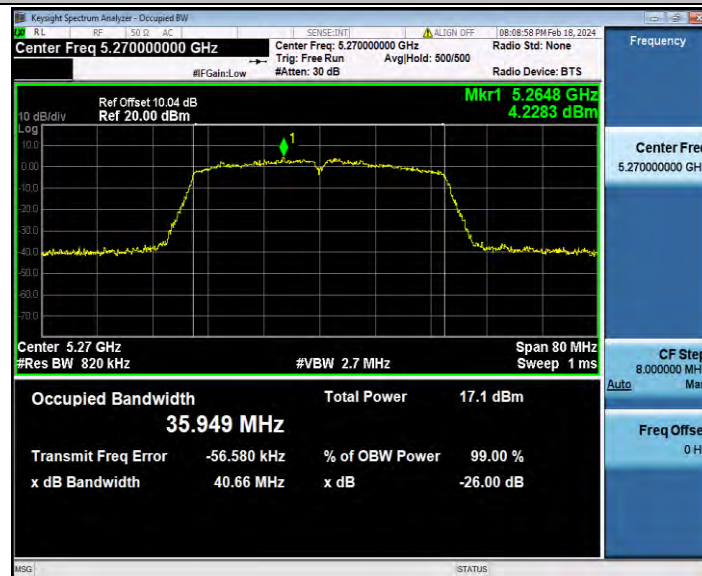
11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



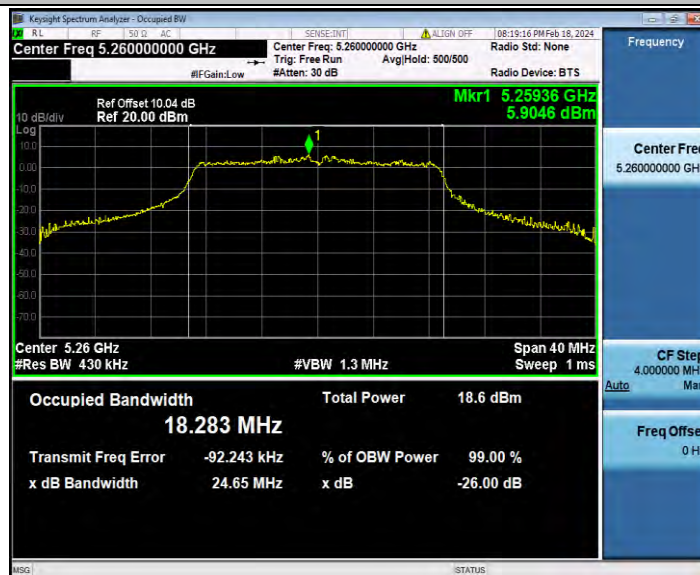
11N40SISO_Ant1_5270



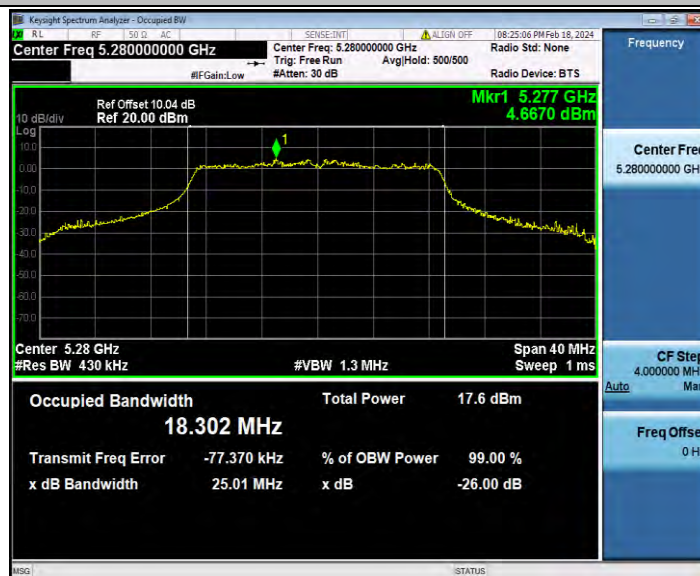
11N40SISO_Ant1_5310



11AC20SISO_Ant1_5260



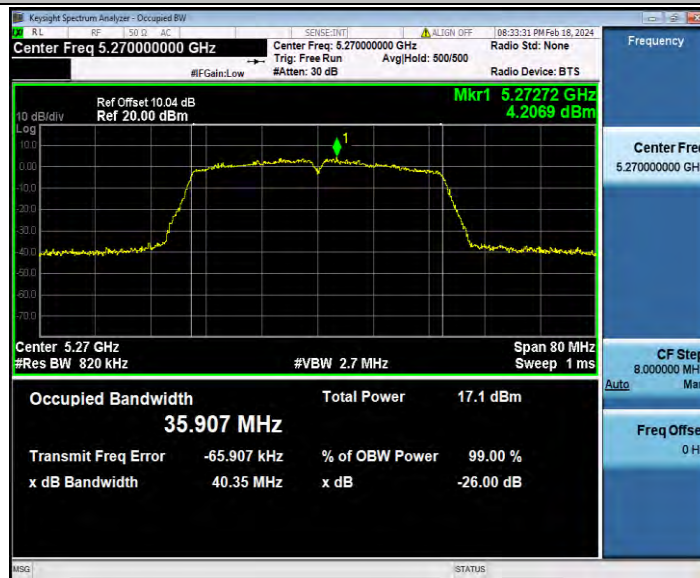
11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



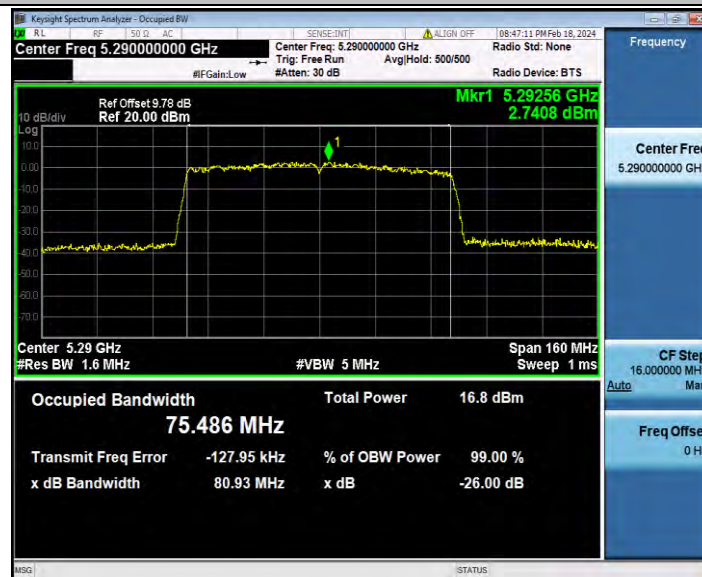
11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290



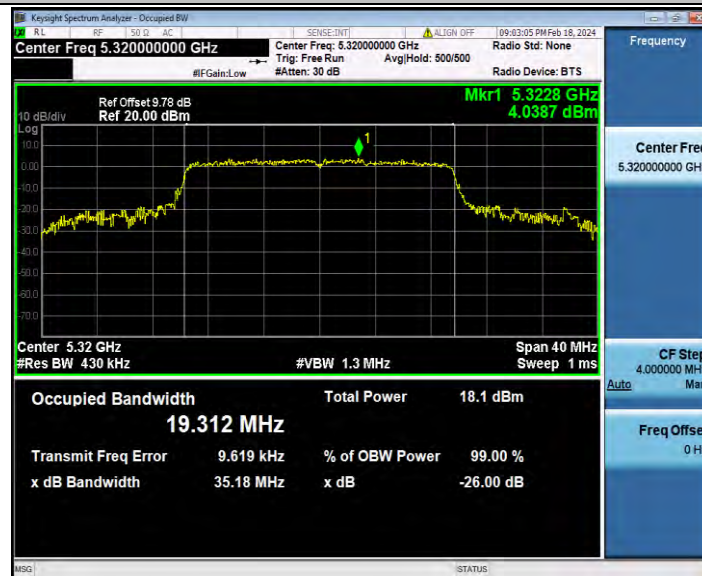
11AX20SISO_Ant1_5260



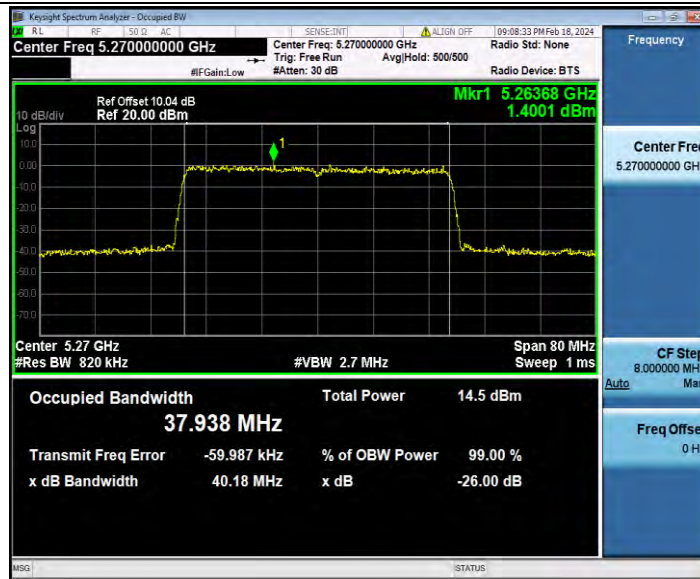
11AX20SISO_Ant1_5280



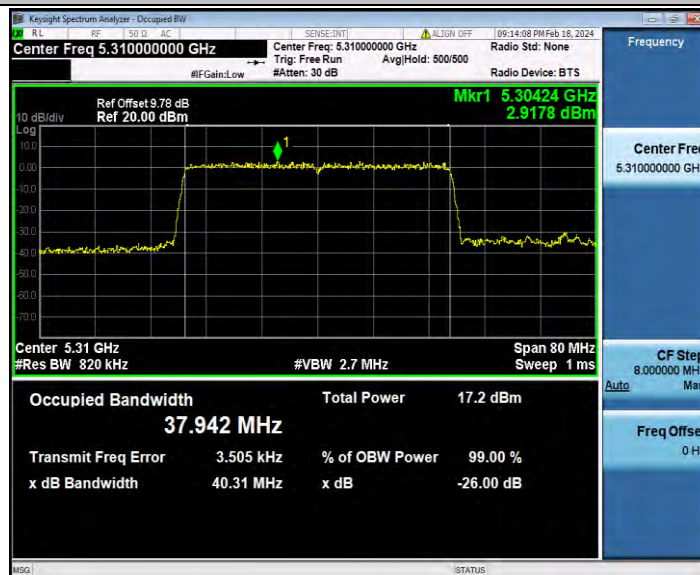
11AX20SISO_Ant1_5320



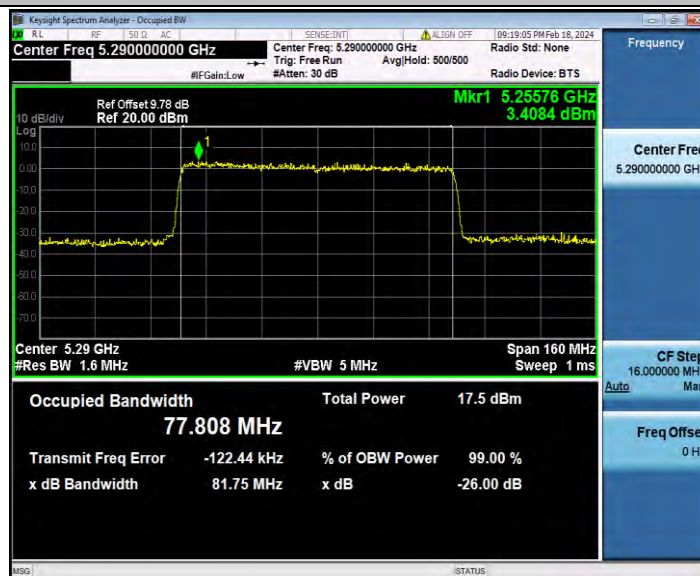
11AX40SISO_Ant1_5270



11AX40SISO_Ant1_5310



11AX80SISO_Ant1_5290

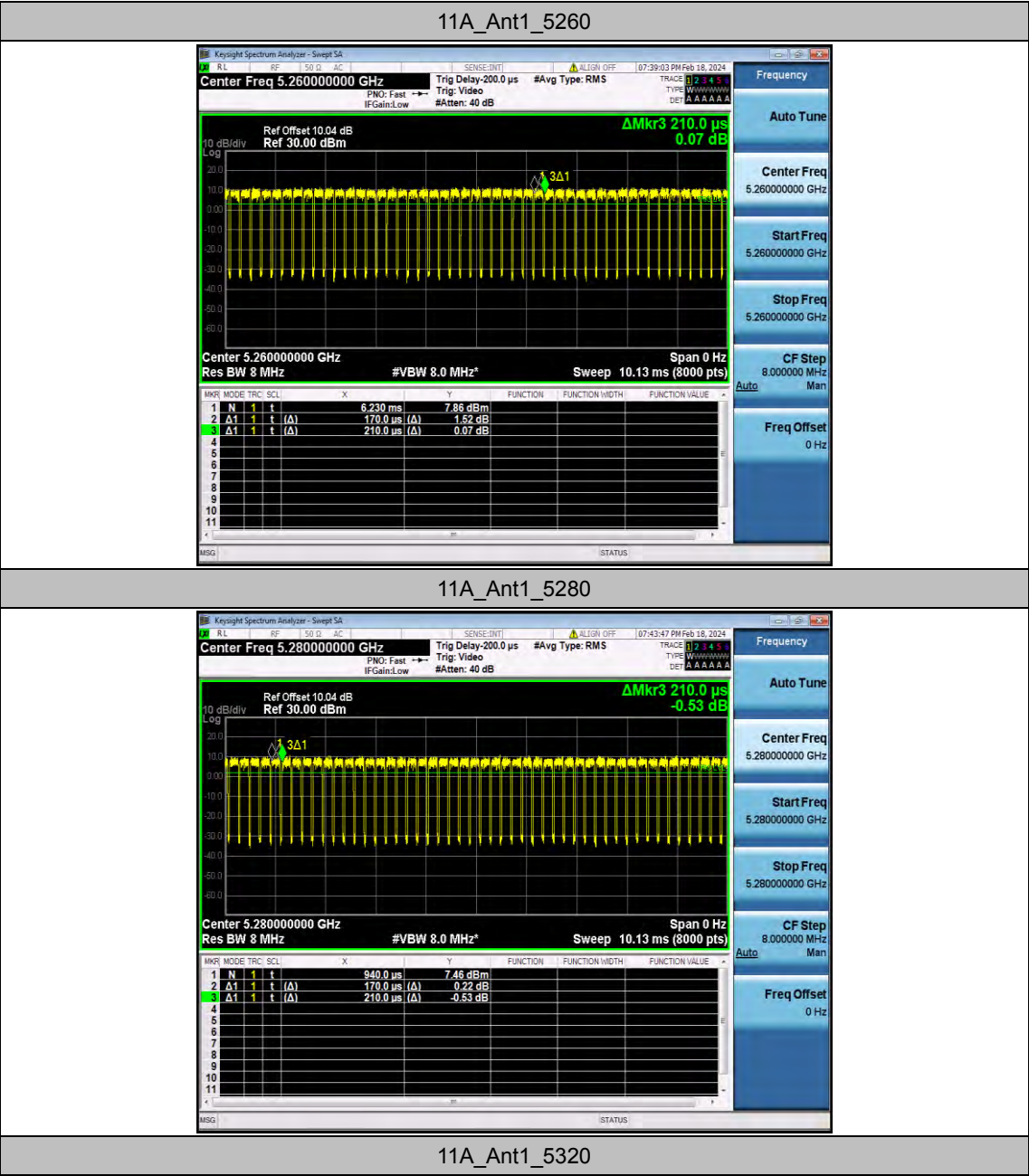


Appendix E.3: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5260	0.17	0.21	80.95	0.92	5.88
		5280	0.17	0.21	80.95	0.92	5.88
		5320	0.17	0.21	80.95	0.92	5.88
11N20SISO	Ant1	5260	0.71	0.75	94.67	0.24	1.41
		5280	0.71	0.75	94.67	0.24	1.41
		5320	0.70	0.74	94.59	0.24	1.43
11N40SISO	Ant1	5270	4.58	6.59	69.50	1.58	0.22
		5310	3.32	4.80	69.17	1.60	0.30
11AC20SISO	Ant1	5260	0.17	0.20	85.00	0.71	5.88
		5280	0.16	0.20	80.00	0.97	6.25
		5320	0.17	0.20	85.00	0.71	5.88
11AC40SISO	Ant1	5270	3.33	4.79	69.52	1.58	0.30
		5310	4.68	6.70	69.85	1.56	0.21
11AC80SISO	Ant1	5290	3.24	6.74	48.07	3.18	0.31
11AX20SISO	Ant1	5260	0.16	0.19	84.21	0.75	6.25
		5280	0.16	0.19	84.21	0.75	6.25
		5320	0.16	0.19	84.21	0.75	6.25
11AX40SISO	Ant1	5270	2.88	5.08	56.69	2.46	0.35
		5310	2.89	5.08	56.89	2.45	0.35
11AX80SISO	Ant1	5290	3.39	6.72	50.45	2.97	0.29

Test Graphs



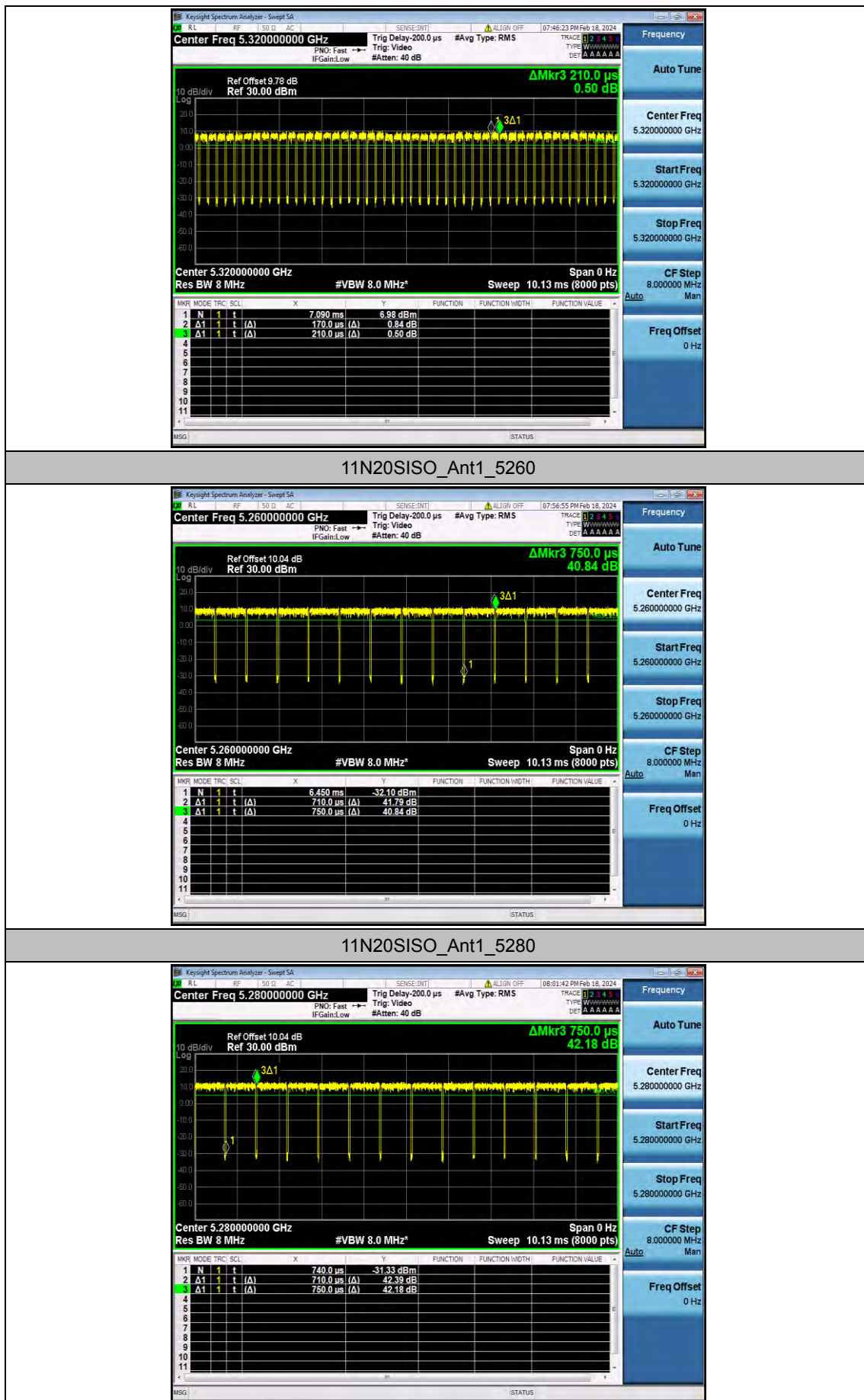
11A_Ant1_5280

Frequency

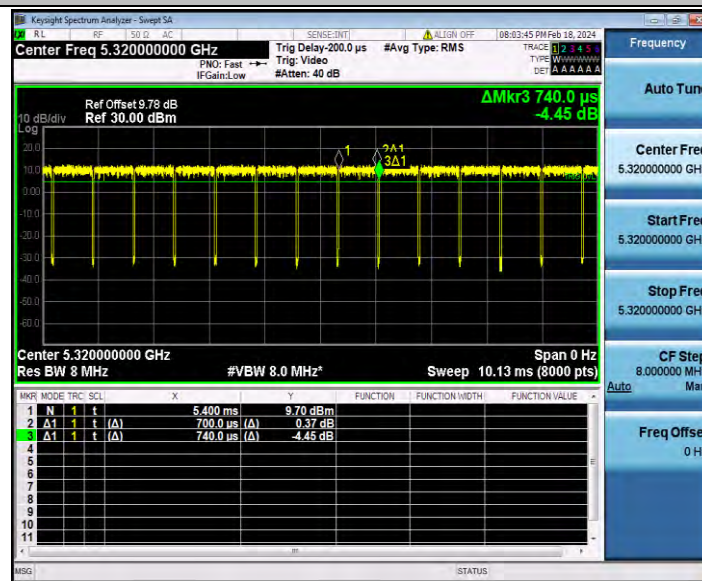
Auto Tune

Center Freq
5.280000000 GHzStart Freq
5.280000000 GHzStop Freq
5.280000000 GHzCF Step
8.0000000 MHzFreq Offset
0 Hz

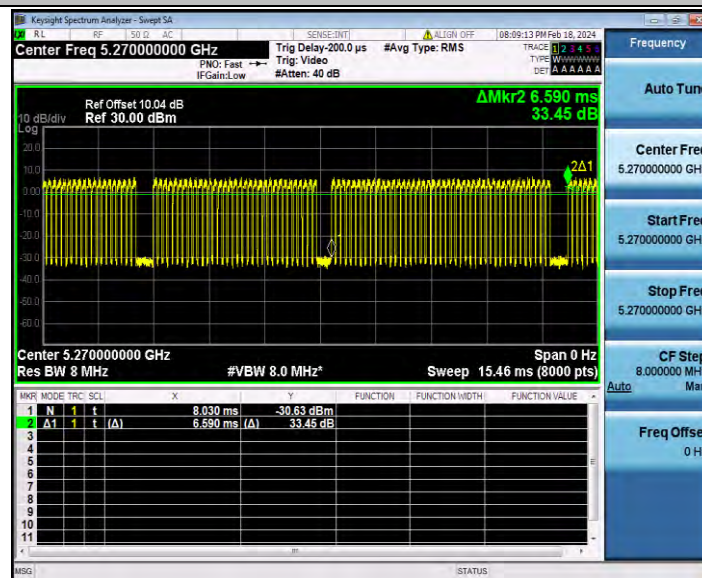
11A_Ant1_5320



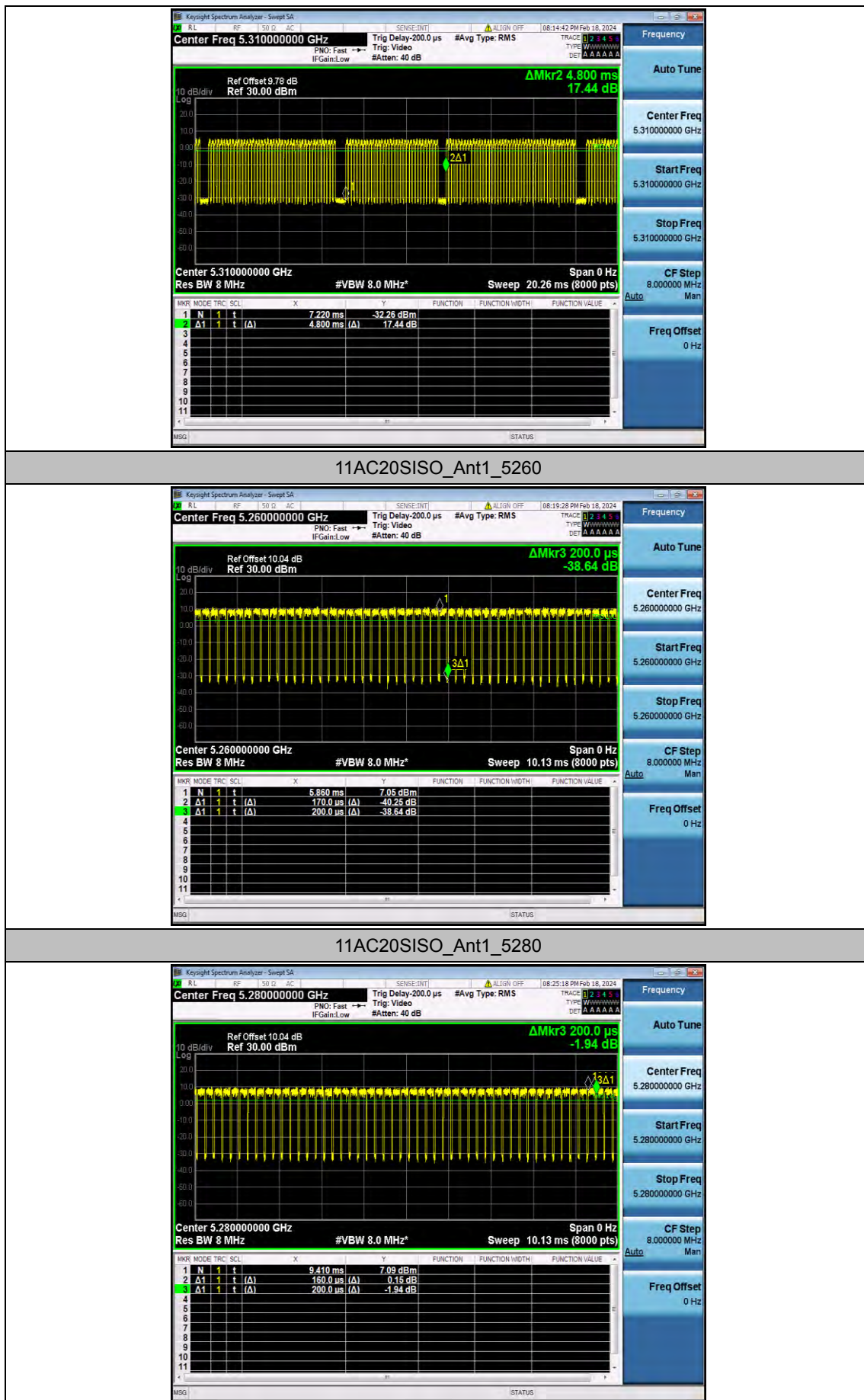
11N20SISO_Ant1_5320



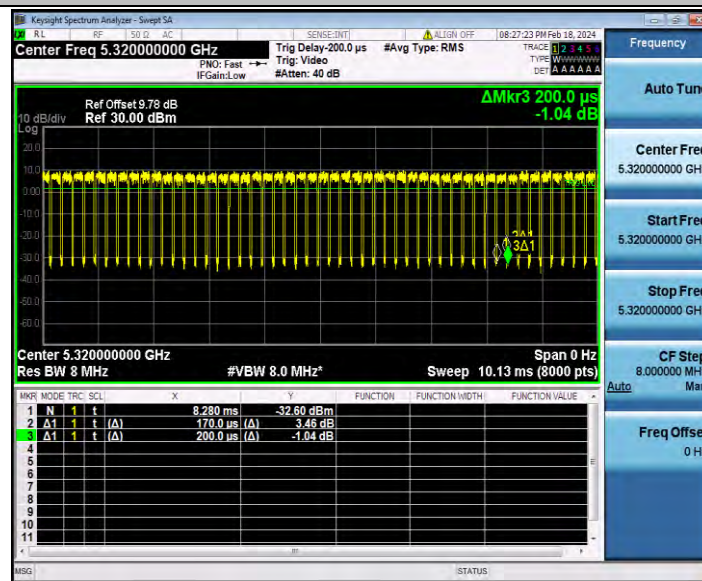
11N40SISO_Ant1_5270



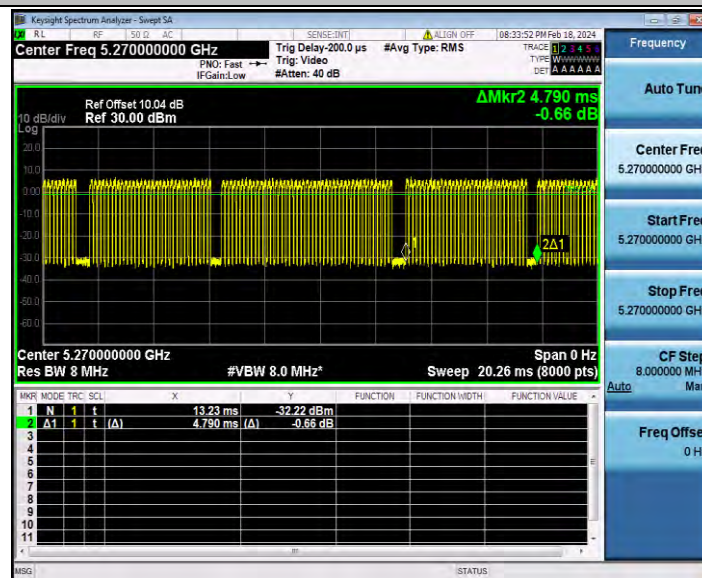
11N40SISO_Ant1_5310



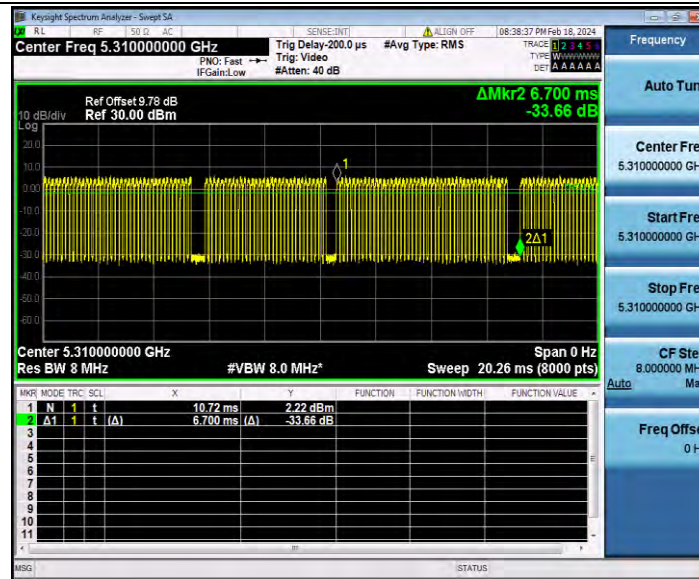
11AC20SISO_Ant1_5320



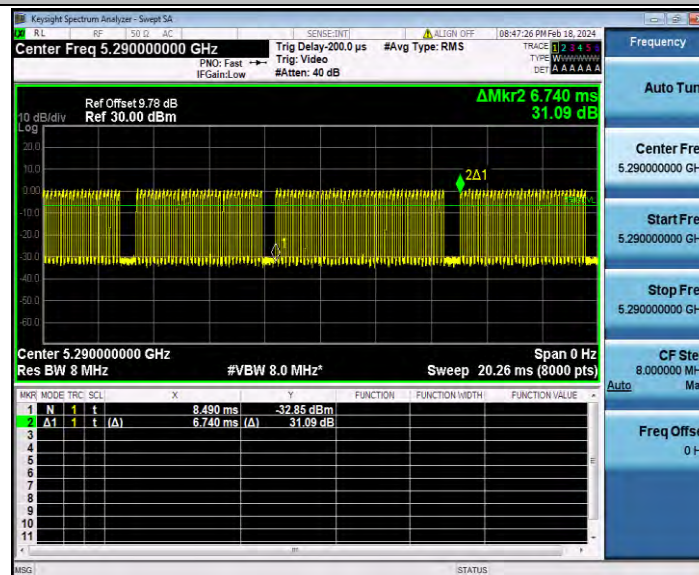
11AC40SISO_Ant1_5270



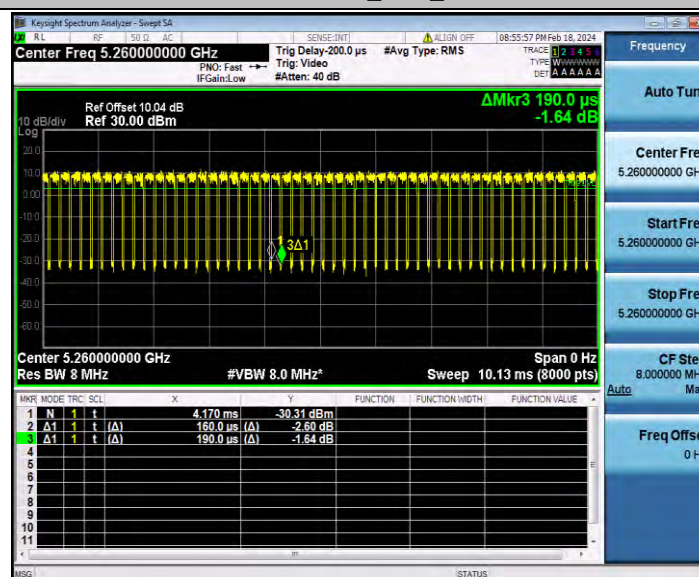
11AC40SISO_Ant1_5310



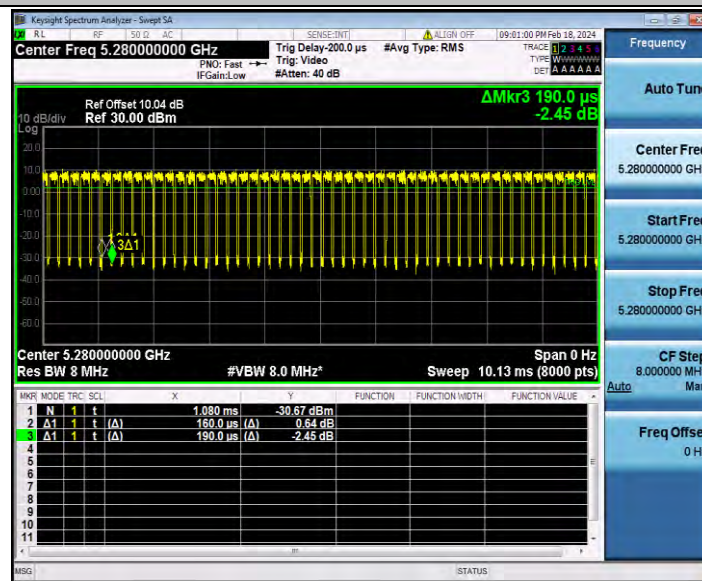
11AC80SISO_Ant1_5290



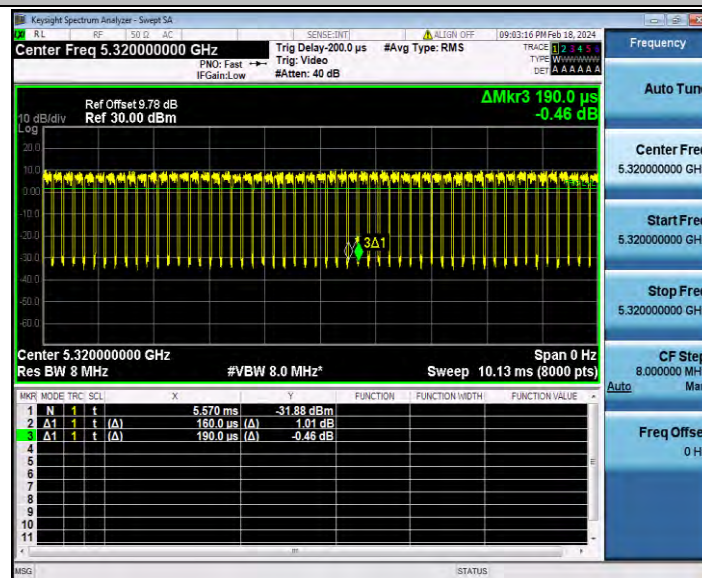
11AX20SISO_Ant1_5260



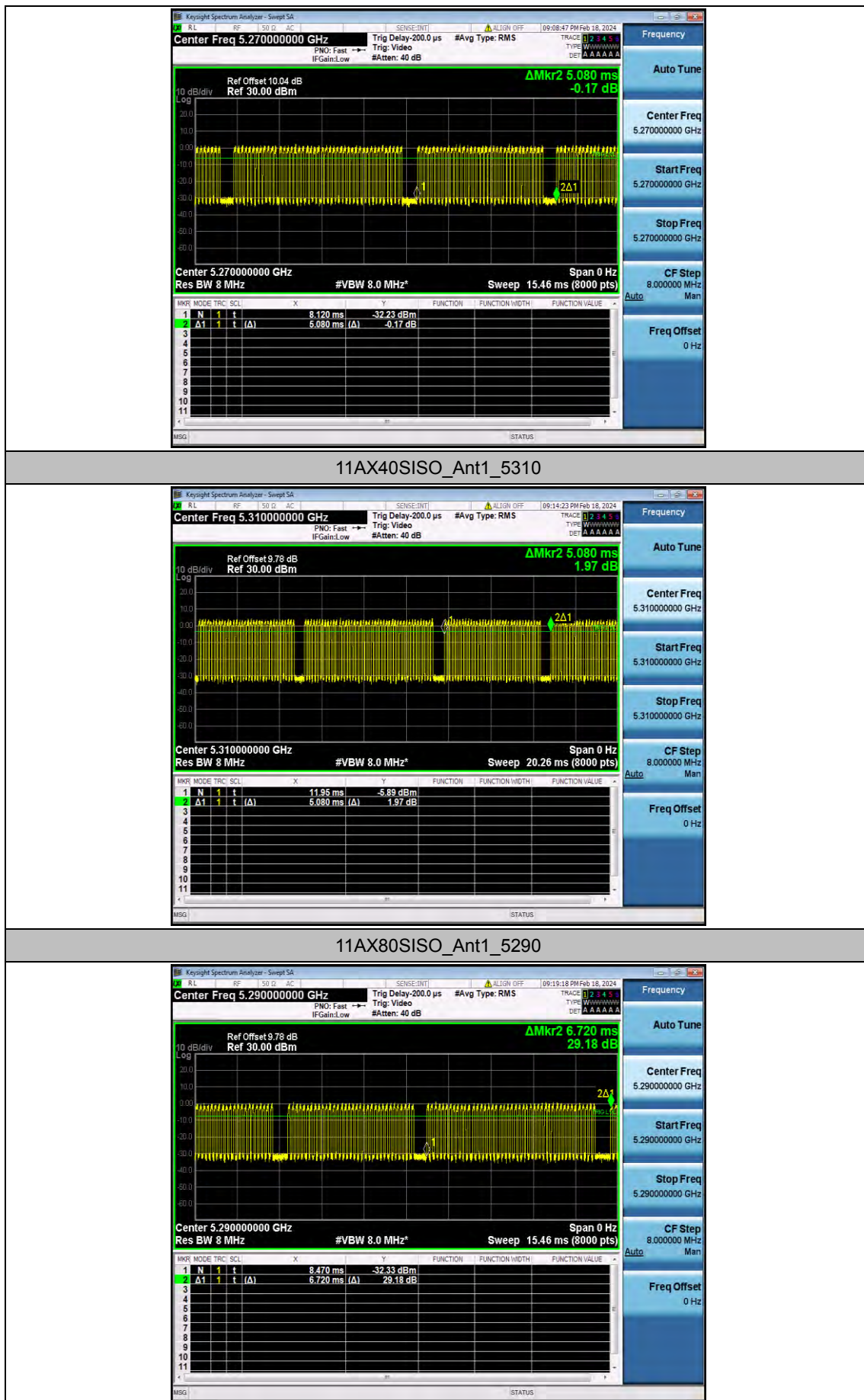
11AX20SISO_Ant1_5280



11AX20SISO_Ant1_5320



11AX40SISO_Ant1_5270



Appendix E.4: Maximum conducted output power

Test Result

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5260	10.44	80.95	0.92	11.36	≤23.98	PASS
		5280	9.54	80.95	0.92	10.46	≤23.98	PASS
		5320	9.12	80.95	0.92	10.04	≤23.98	PASS
11N20SISO	Ant1	5260	11.44	94.67	0.24	11.68	≤23.98	PASS
		5280	13.31	94.67	0.24	13.55	≤23.98	PASS
		5320	12.75	94.59	0.24	12.99	≤23.98	PASS
11N40SISO	Ant1	5270	7.84	69.50	1.58	9.42	≤23.98	PASS
		5310	7.43	69.17	1.60	9.03	≤23.98	PASS
11AC20SISO	Ant1	5260	10.59	85.00	0.71	11.30	≤23.98	PASS
		5280	9.54	80.00	0.97	10.51	≤23.98	PASS
		5320	9.09	85.00	0.71	9.80	≤23.98	PASS
11AC40SISO	Ant1	5270	7.88	69.52	1.58	9.46	≤23.98	PASS
		5310	7.39	69.85	1.56	8.95	≤23.98	PASS
11AC80SISO	Ant1	5290	5.36	48.07	3.18	8.54	≤23.98	PASS
11AX20SISO	Ant1	5260	10.62	84.21	0.75	11.37	≤23.98	PASS
		5280	9.69	84.21	0.75	10.44	≤23.98	PASS
		5320	9.30	84.21	0.75	10.05	≤23.98	PASS
11AX40SISO	Ant1	5270	3.86	56.69	2.46	6.32	≤23.98	PASS
		5310	6.70	56.89	2.45	9.15	≤23.98	PASS
11AX80SISO	Ant1	5290	6.09	50.45	2.97	9.06	≤23.98	PASS

Note:

1. The Duty Cycle Factor is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the data.

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5260	0.78	≤11.00	PASS
		5280	-0.23	≤11.00	PASS
		5320	-0.40	≤11.00	PASS
11N20SISO	Ant1	5260	0.88	≤11.00	PASS
		5280	2.59	≤11.00	PASS
		5320	2.02	≤11.00	PASS
11N40SISO	Ant1	5270	-3.17	≤11.00	PASS
		5310	-3.73	≤11.00	PASS
11AC20SISO	Ant1	5260	0.37	≤11.00	PASS
		5280	-0.46	≤11.00	PASS
		5320	-0.93	≤11.00	PASS
11AC40SISO	Ant1	5270	-3.22	≤11.00	PASS
		5310	-3.80	≤11.00	PASS
11AC80SISO	Ant1	5290	-7.54	≤11.00	PASS
11AX20SISO	Ant1	5260	0.11	≤11.00	PASS
		5280	-0.99	≤11.00	PASS
		5320	-1.24	≤11.00	PASS
11AX40SISO	Ant1	5270	-7.51	≤11.00	PASS
		5310	-5.14	≤11.00	PASS
11AX80SISO	Ant1	5290	-7.37	≤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

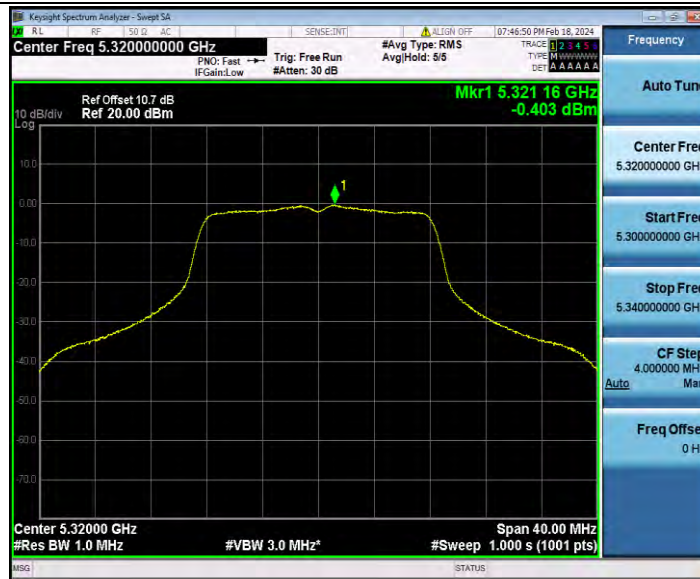
11A_Ant1_5260



11A_Ant1_5280



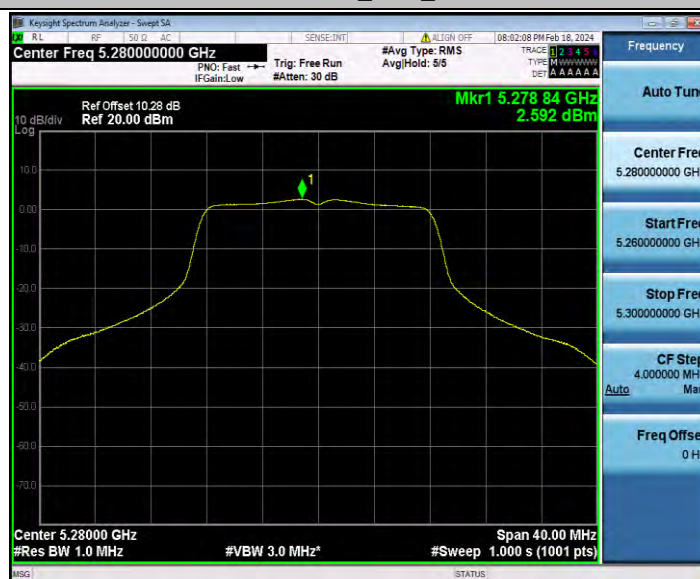
11A_Ant1_5320



11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



11N20SISO_Ant1_5320



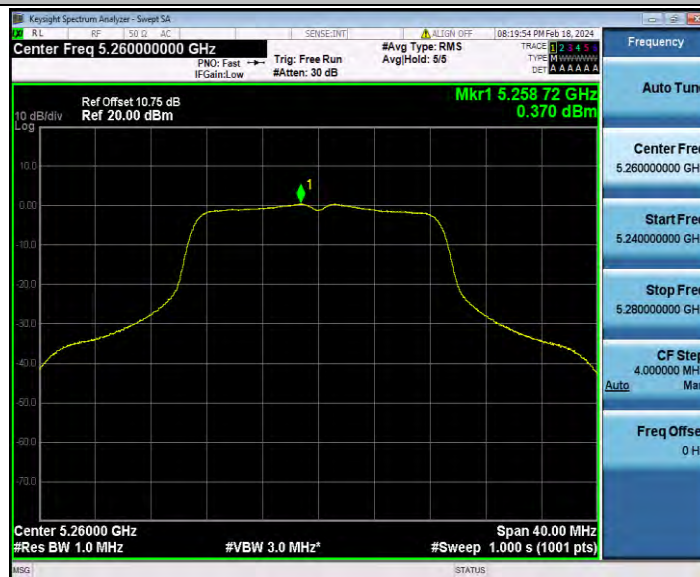
11N40SISO_Ant1_5270



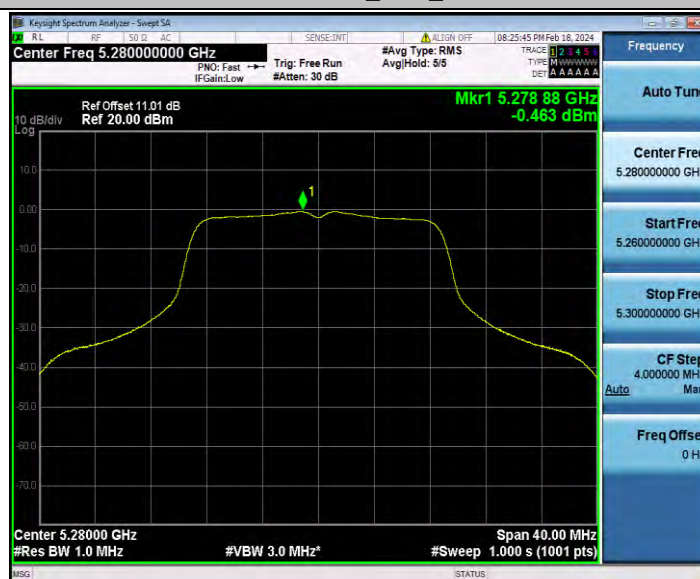
11N40SISO_Ant1_5310



11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC80SISO_Ant1_5290



11AX20SISO_Ant1_5260



11AX20SISO_Ant1_5280



11AX20SISO_Ant1_5320



11AX40SISO_Ant1_5270



11AX40SISO_Ant1_5310



11AX80SISO_Ant1_5290

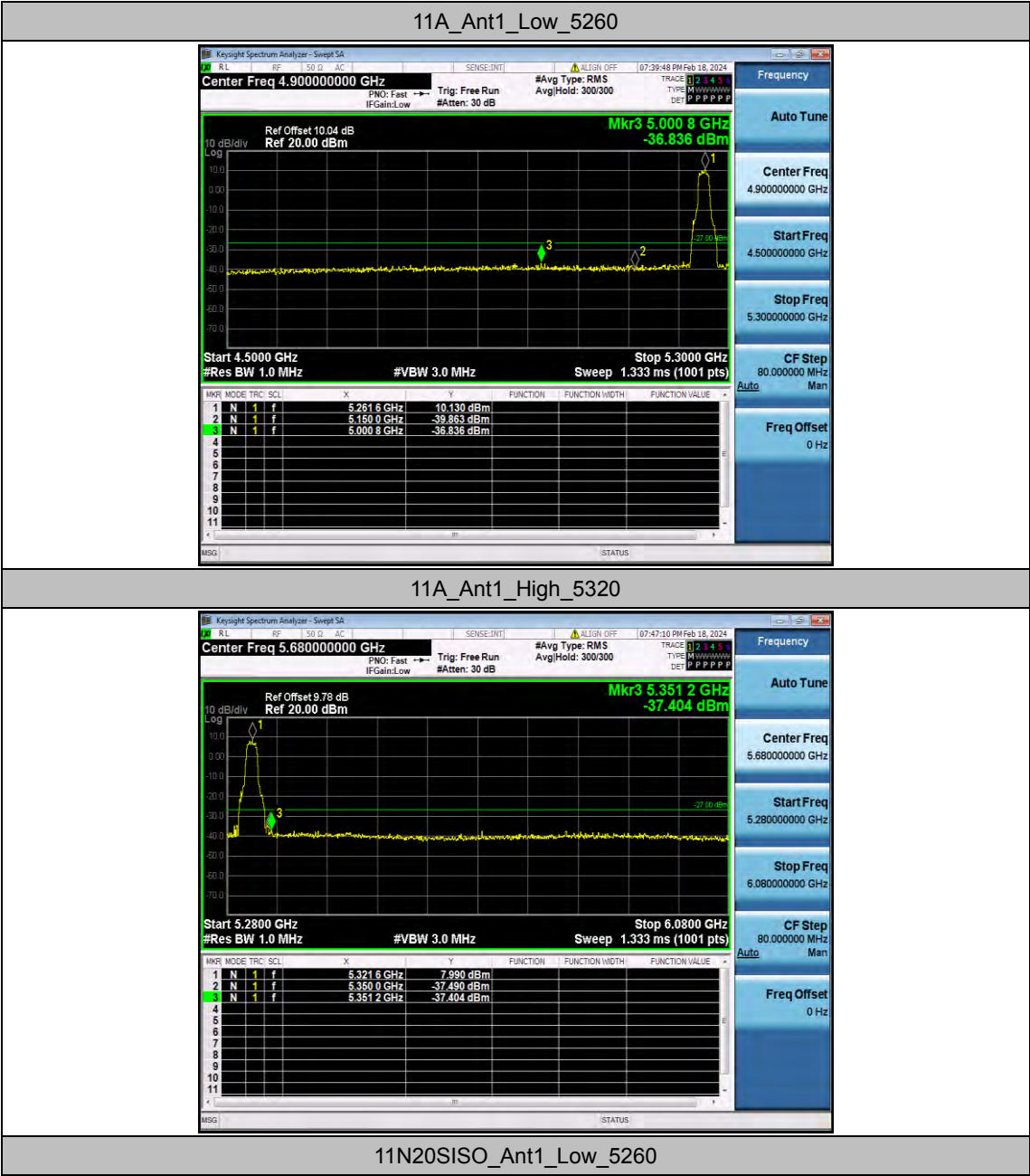


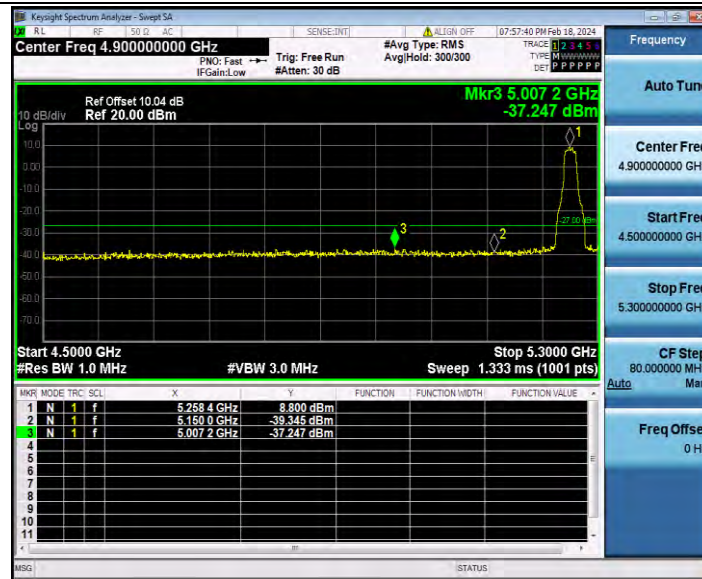
Appendix E.6: Band edge measurements

Test Result B2

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5260	-36.84	≤ -27	PASS
		High	5320	-37.4	≤ -27	PASS
11N20SISO	Ant1	Low	5260	-37.25	≤ -27	PASS
		High	5320	-29.35	≤ -27	PASS
11N40SISO	Ant1	Low	5270	-37.09	≤ -27	PASS
		High	5310	-36.55	≤ -27	PASS
11AC20SISO	Ant1	Low	5260	-36.96	≤ -27	PASS
		High	5320	-36.97	≤ -27	PASS
11AC40SISO	Ant1	Low	5270	-35.86	≤ -27	PASS
		High	5310	-36.96	≤ -27	PASS
11AC80SISO	Ant1	Low	5290	-36.86	≤ -27	PASS
		High	5290	-35.74	≤ -27	PASS
11AX20SISO	Ant1	Low	5260	-37.24	≤ -27	PASS
		High	5320	-37.33	≤ -27	PASS
11AX40SISO	Ant1	Low	5270	-36.77	≤ -27	PASS
		High	5310	-33.43	≤ -27	PASS
11AX80SISO	Ant1	Low	5290	-37.29	≤ -27	PASS
		High	5290	-33.46	≤ -27	PASS

Test Graphs B2

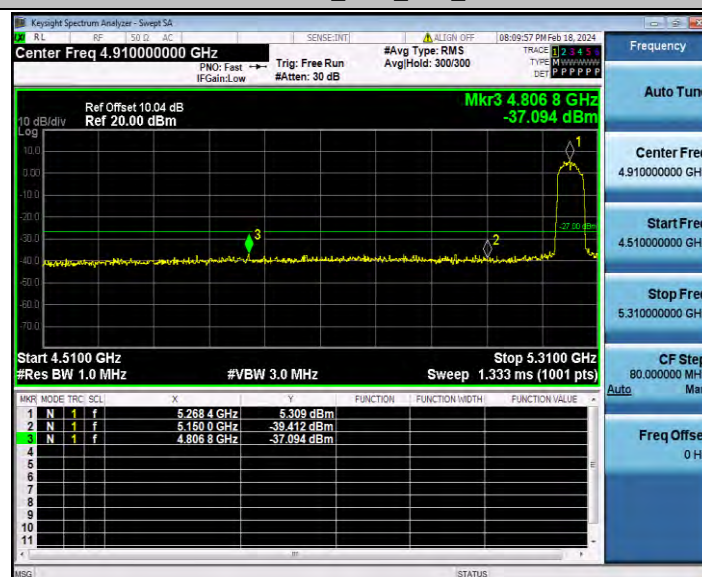




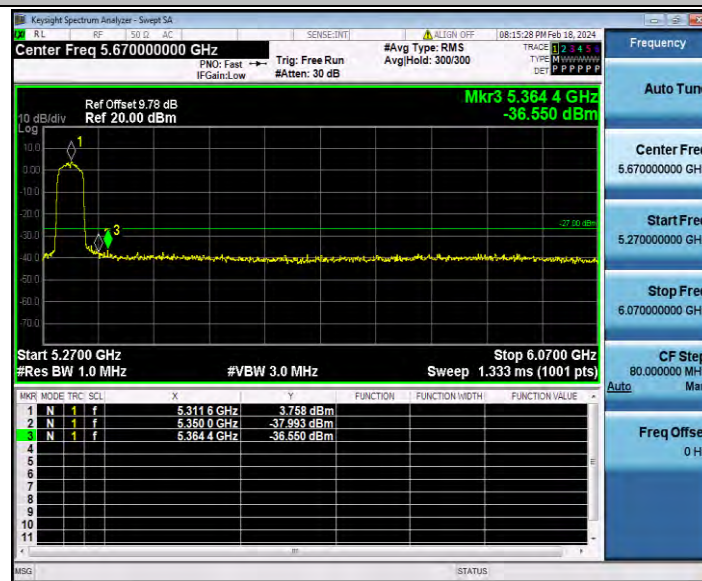
11N20SISO_Ant1_High_5320



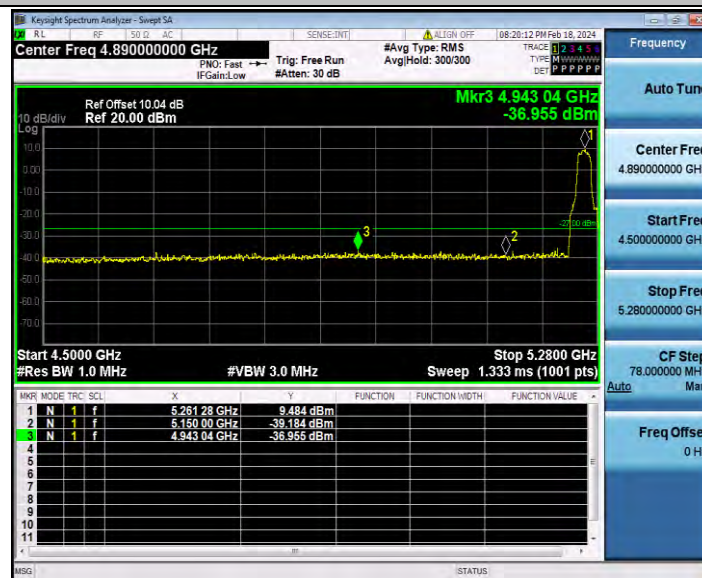
11N40SISO_Ant1_Low_5270



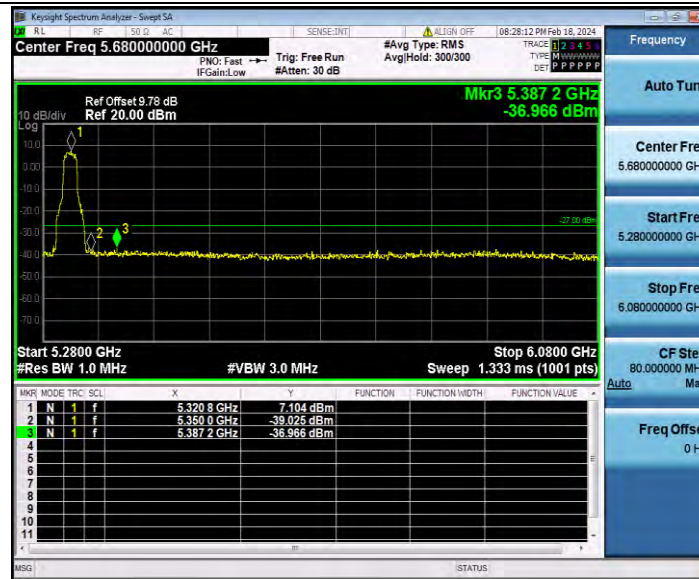
11N40SISO_Ant1_High_5310



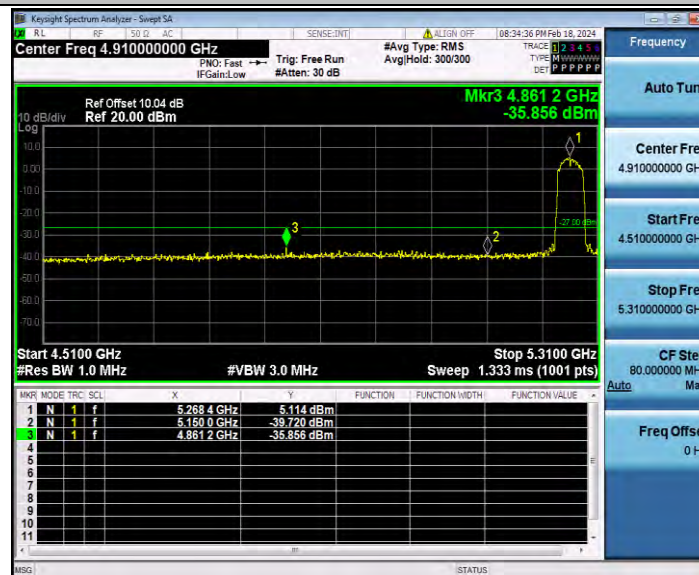
11AC20SISO_Ant1_Low_5260



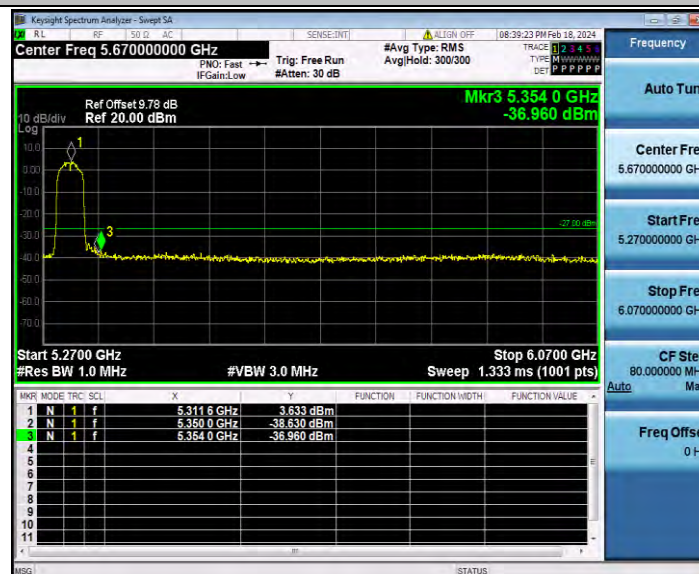
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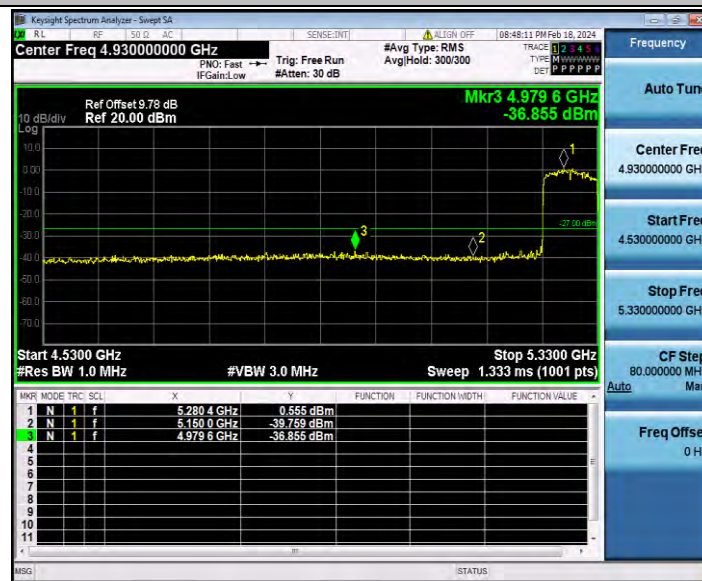
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11AC40SISO_Ant1_High_5310



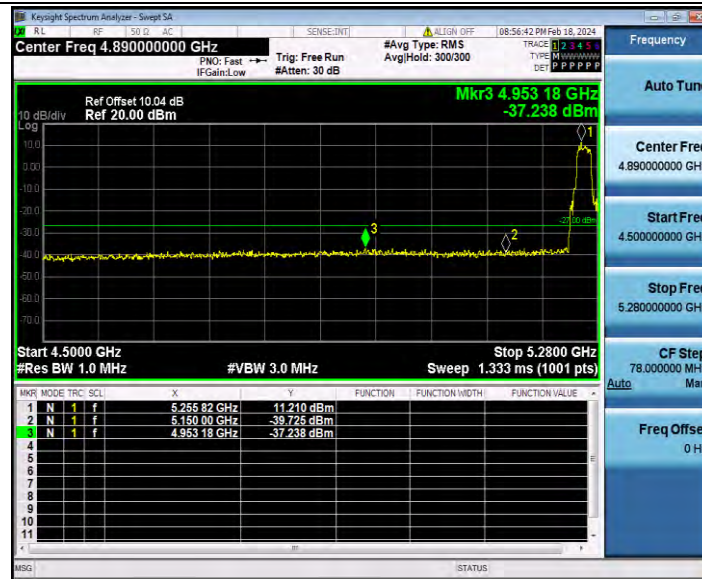
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11AC80SISO_Ant1_High_5290



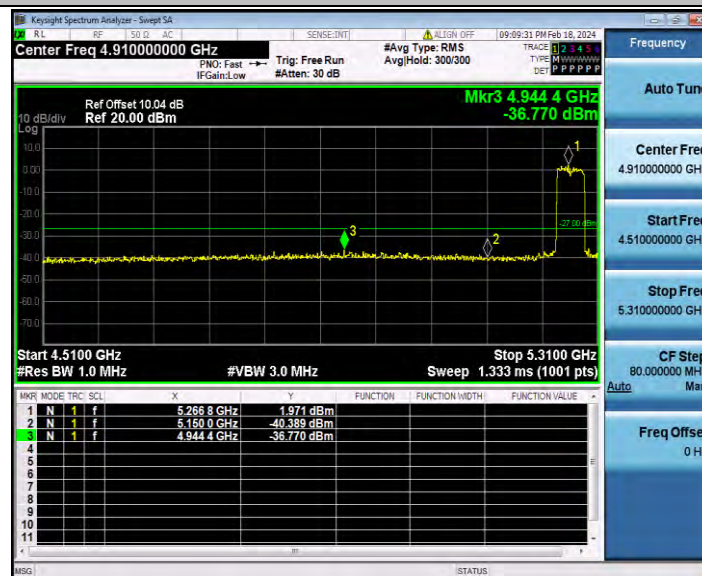
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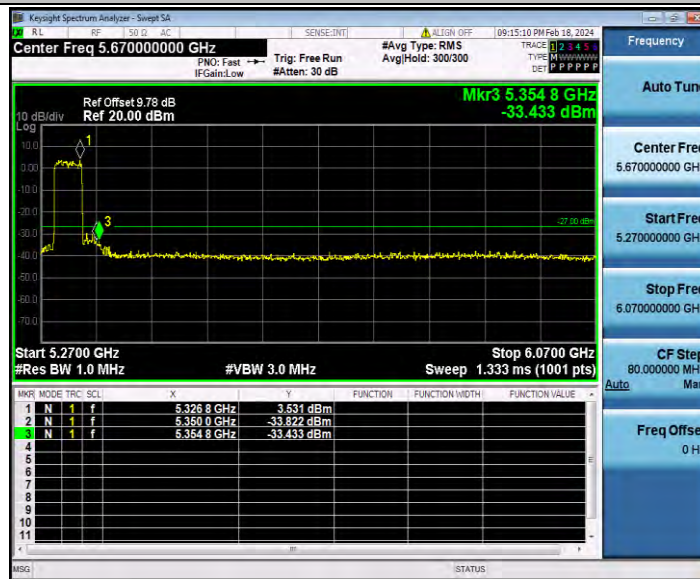
11AX20SISO_Ant1_High_5320



11AX40SISO_Ant1_Low_5270



11AX40SISO_Ant1_High_5310



11AX80SISO_Ant1_Low_5290



11AX80SISO_Ant1_High_5290

