

Case No. : <u>GTS20231208004-1-52</u>	
Ambient Condition: <u>22</u> °C, <u>49</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.2.28</u>	Test Engineer: <u>Evan ouyang</u>

Appendix F.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5500	21.880	5489.120	5511.000	---	---
		5580	21.760	5569.000	5590.760	---	---
		5700	22.040	5688.880	5710.920	---	---
11N20SISO	Ant1	5500	21.960	5489.120	5511.080	---	---
		5580	22.200	5568.960	5591.160	---	---
		5700	20.600	5689.800	5710.400	---	---
11N40SISO	Ant1	5510	39.280	5490.400	5529.680	---	---
		5590	39.680	5570.160	5609.840	---	---
		5670	39.600	5650.160	5689.760	---	---
11AC20SISO	Ant1	5500	20.640	5489.880	5510.520	---	---
		5580	20.760	5569.560	5590.320	---	---
		5700	20.480	5689.760	5710.240	---	---
11AC40SISO	Ant1	5510	39.600	5490.240	5529.840	---	---
		5590	39.600	5570.400	5610.000	---	---
		5670	39.440	5650.240	5689.680	---	---
11AX20SISO	Ant1	5500	21.200	5489.360	5510.560	---	---
		5580	21.040	5569.320	5590.360	---	---
		5700	20.720	5689.640	5710.360	---	---
11AX40SISO	Ant1	5510	40.080	5489.920	5530.000	---	---
		5590	40.240	5570.000	5610.240	---	---
		5670	40.240	5649.760	5690.000	---	---

Test Graphs

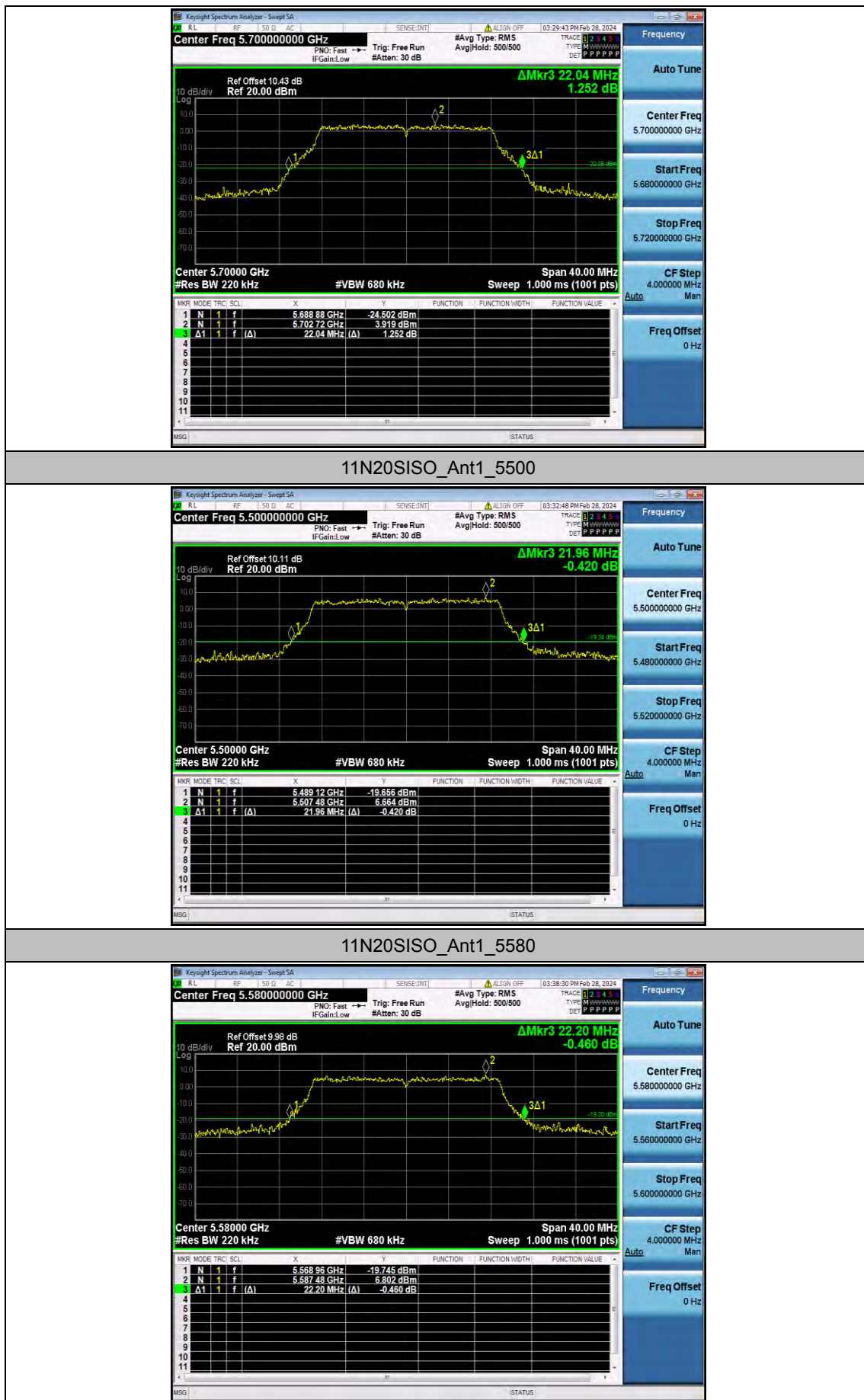
11A_Ant1_5500



11A_Ant1_5580



11A_Ant1_5700



11N20SISO_Ant1_5700



11N40SISO_Ant1_5510



11N40SISO_Ant1_5590



11N40SISO_Ant1_5670



11AC20SISO_Ant1_5500



11AC20SISO_Ant1_5580



11AC20SISO_Ant1_5700



11AC40SISO_Ant1_5510

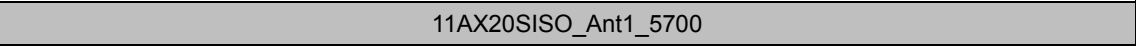
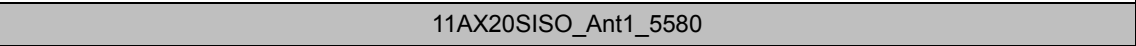


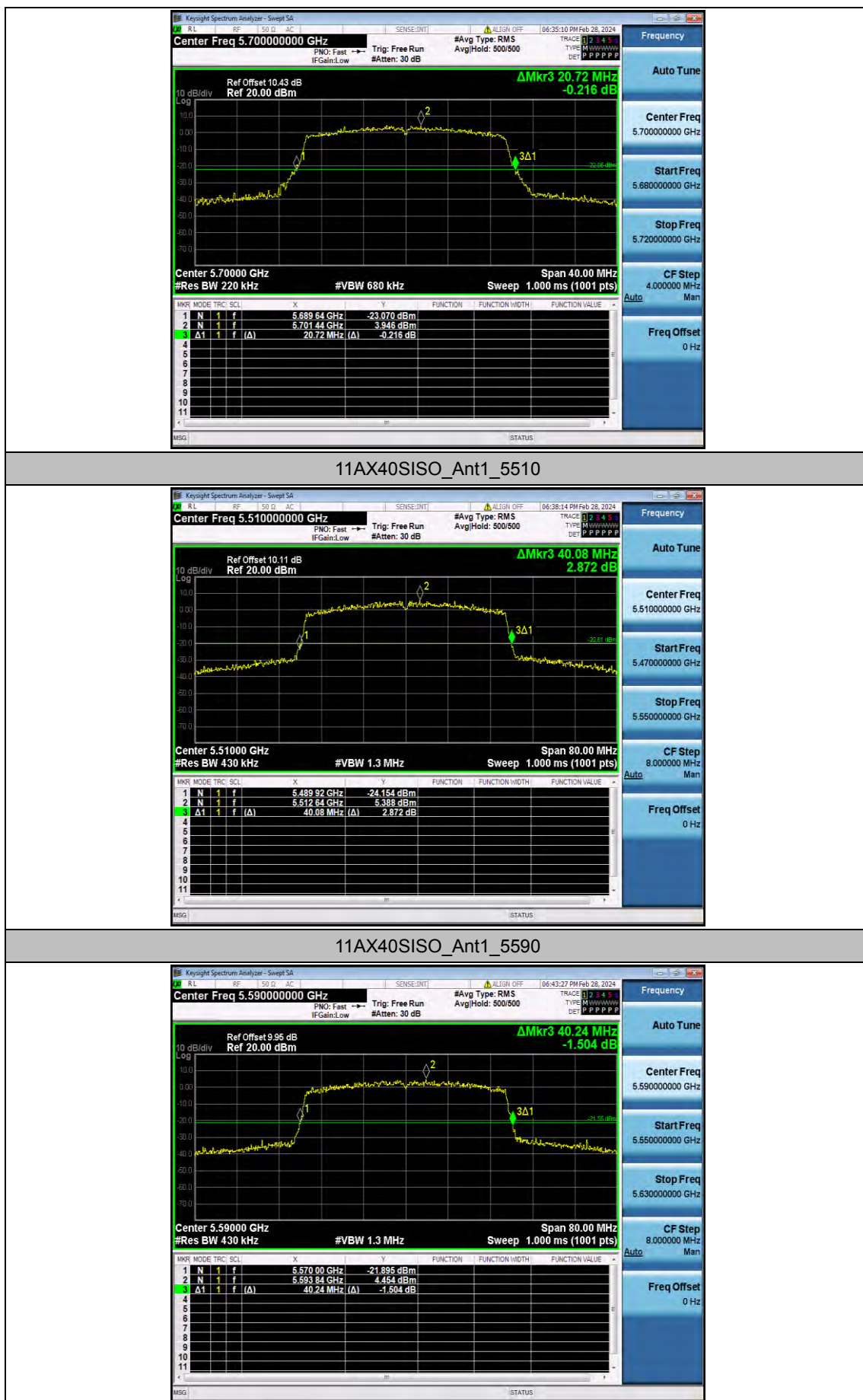
11AC40SISO_Ant1_5590

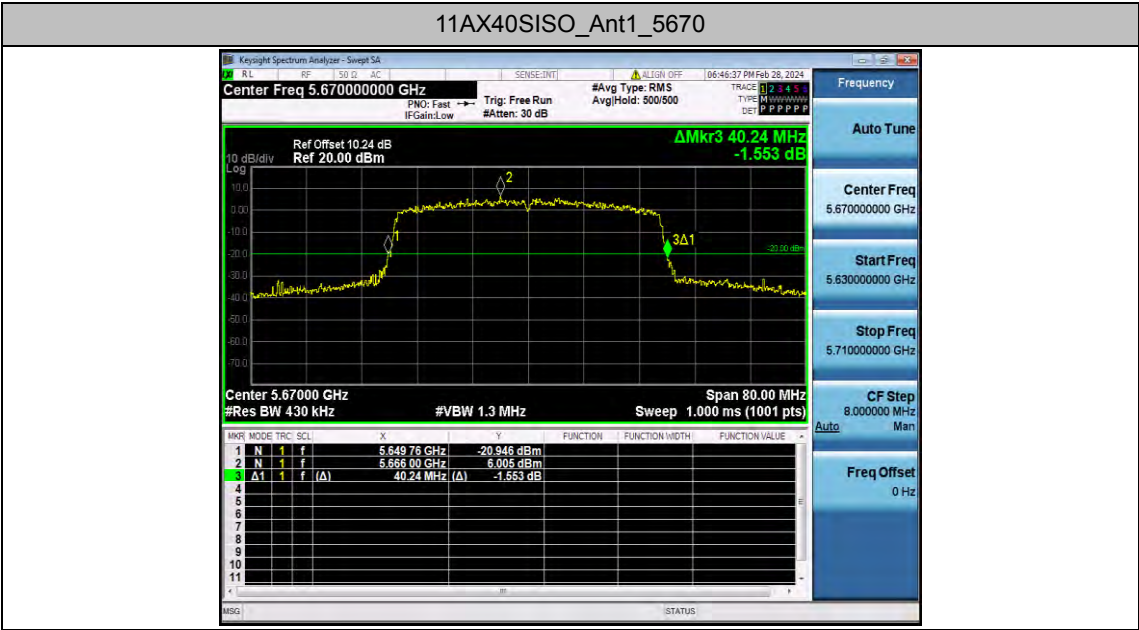


11AC40SISO_Ant1_5670







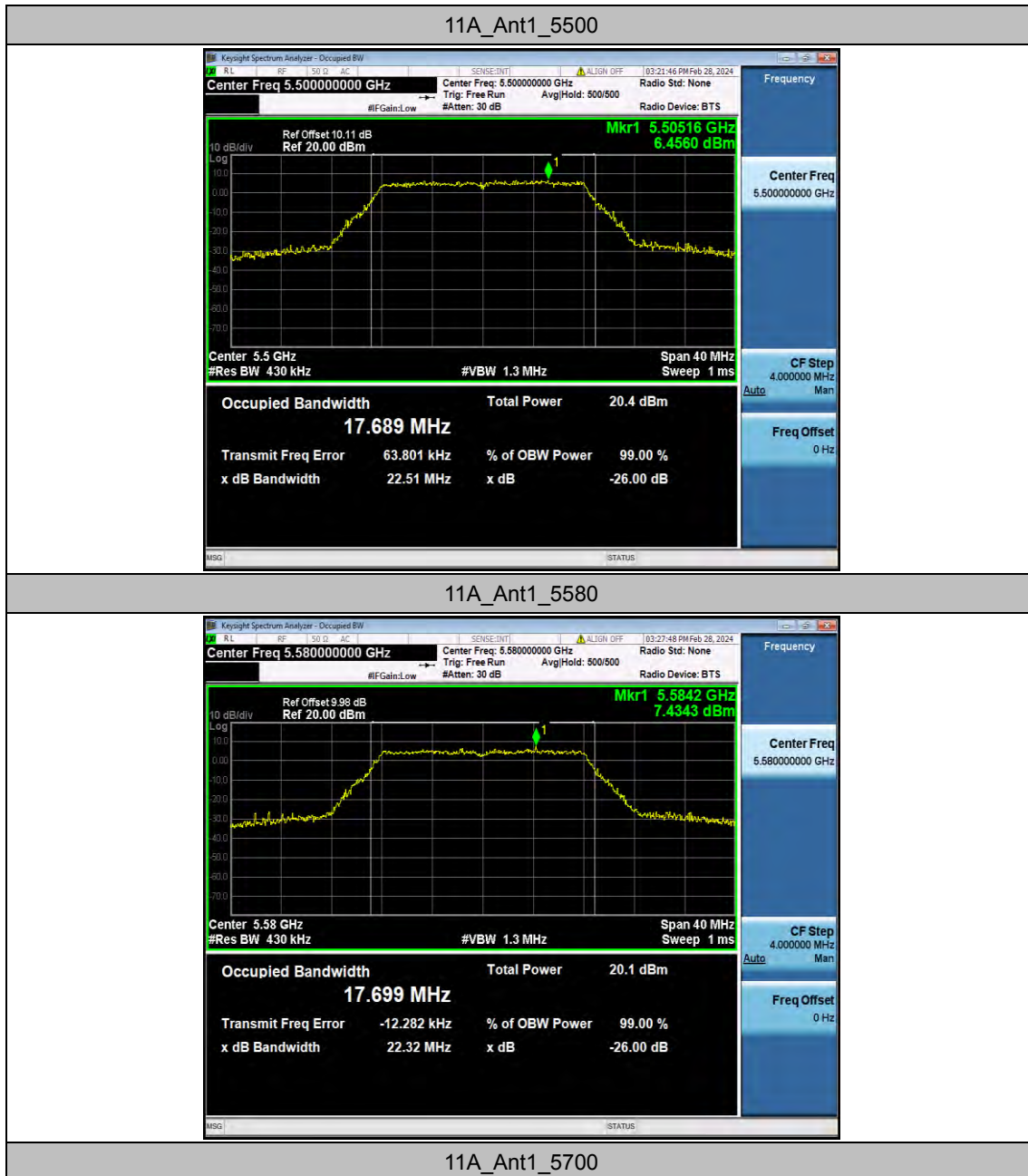


Appendix F.2: Occupied channel bandwidth

Test Result

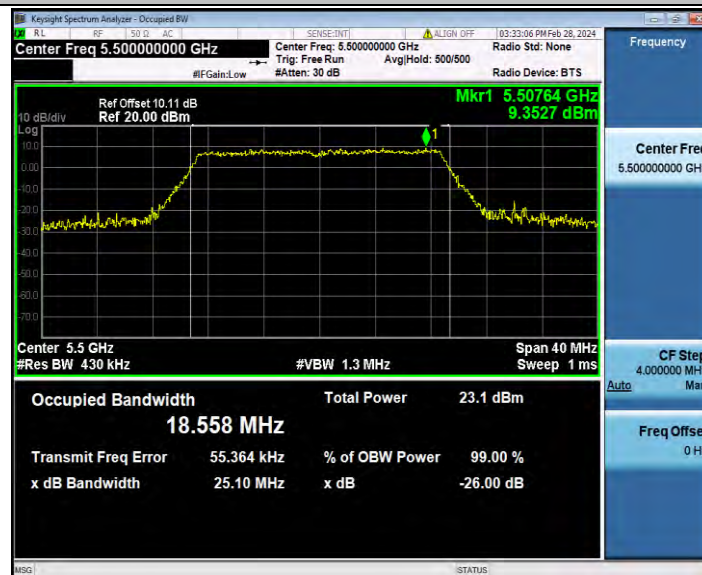
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5500	17.689	5491.2193	5508.9083	---	---
		5580	17.699	5571.1382	5588.8372	---	---
		5700	17.664	5691.1156	5708.7796	---	---
11N20SISO	Ant1	5500	18.558	5490.7764	5509.3344	---	---
		5580	18.594	5570.7086	5589.3026	---	---
		5700	17.748	5691.1020	5708.8500	---	---
11N40SISO	Ant1	5510	35.858	5492.1431	5528.0011	---	---
		5590	36.046	5572.0205	5608.0665	---	---
		5670	35.975	5651.9846	5687.9596	---	---
11AC20SISO	Ant1	5500	17.721	5491.1521	5508.8731	---	---
		5580	17.791	5571.0870	5588.8780	---	---
		5700	17.752	5691.0869	5708.8389	---	---
11AC40SISO	Ant1	5510	35.879	5492.1045	5527.9835	---	---
		5590	35.945	5572.0557	5608.0007	---	---
		5670	35.959	5651.9766	5687.9356	---	---
11AX20SISO	Ant1	5500	18.796	5490.6192	5509.4152	---	---
		5580	18.798	5570.5903	5589.3883	---	---
		5700	18.799	5690.5782	5709.3772	---	---
11AX40SISO	Ant1	5510	37.177	5491.4151	5528.5921	---	---
		5590	37.378	5571.2760	5608.6540	---	---
		5670	37.248	5651.3262	5688.5742	---	---

Test Graphs





11N20SISO_Ant1_5500



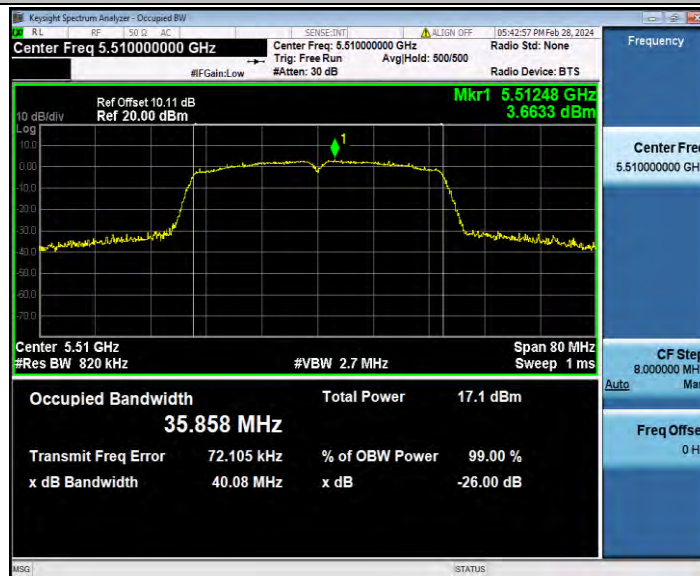
11N20SISO_Ant1_5580



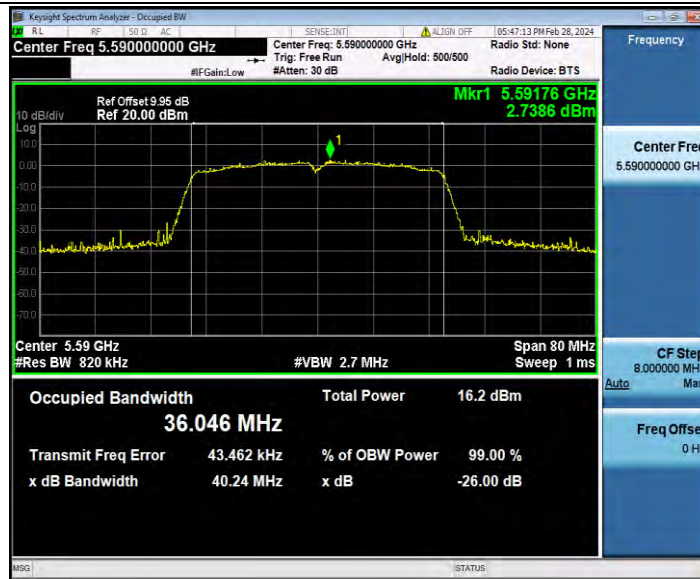
11N20SISO_Ant1_5700



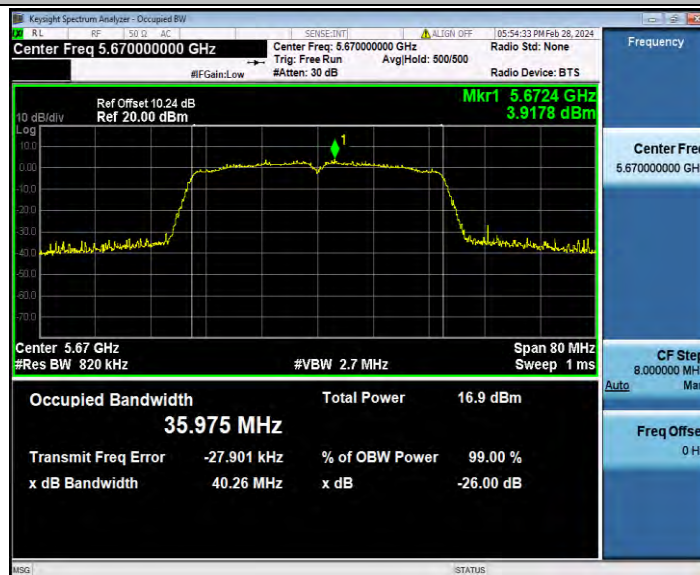
11N40SISO_Ant1_5510



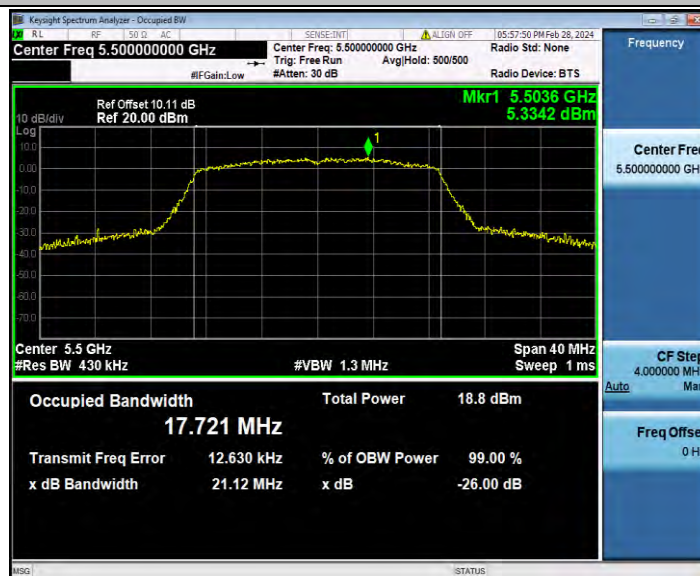
11N40SISO_Ant1_5590



11N40SISO_Ant1_5670



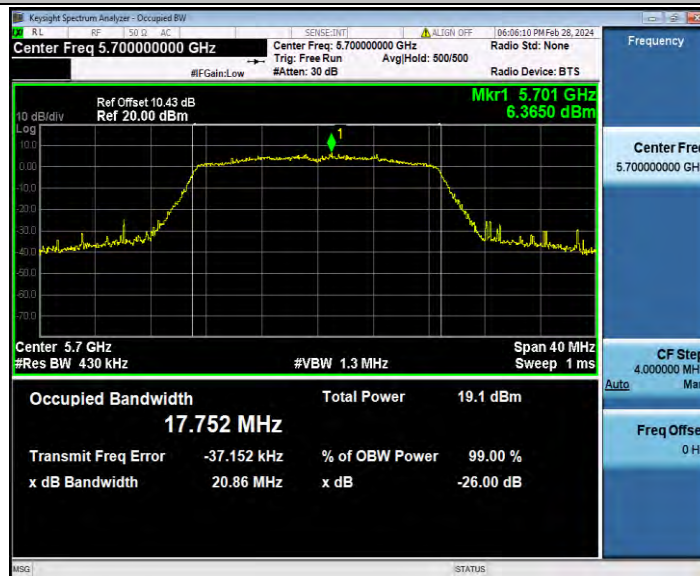
11AC20SISO_Ant1_5500



11AC20SISO_Ant1_5580



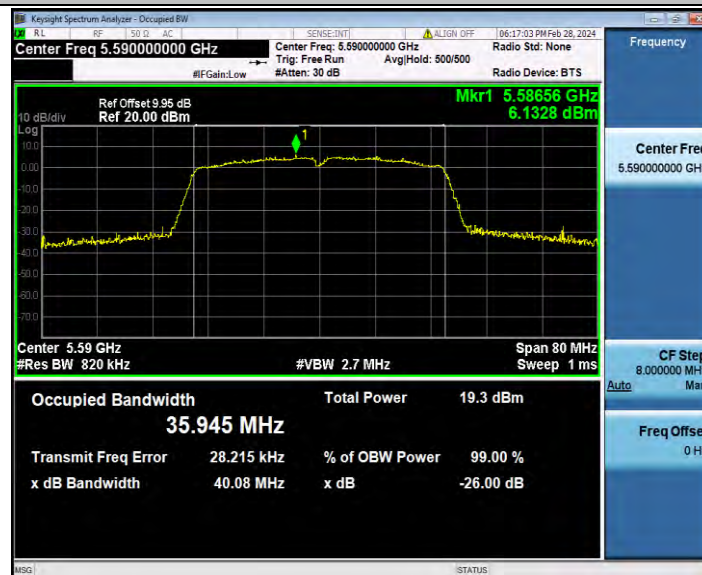
11AC20SISO_Ant1_5700



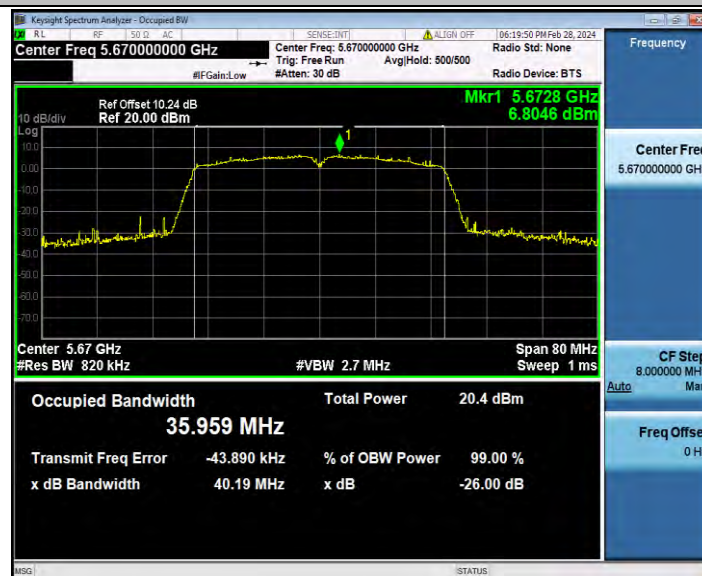
11AC40SISO_Ant1_5510



11AC40SISO_Ant1_5590



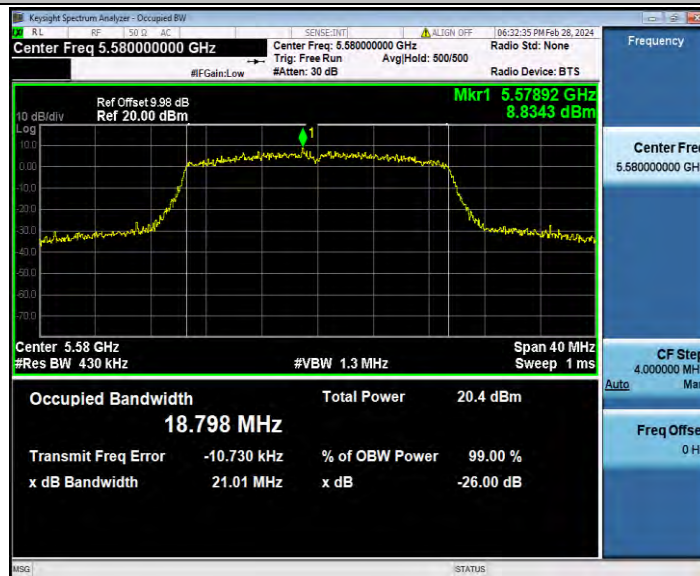
11AC40SISO_Ant1_5670



11AX20SISO_Ant1_5500



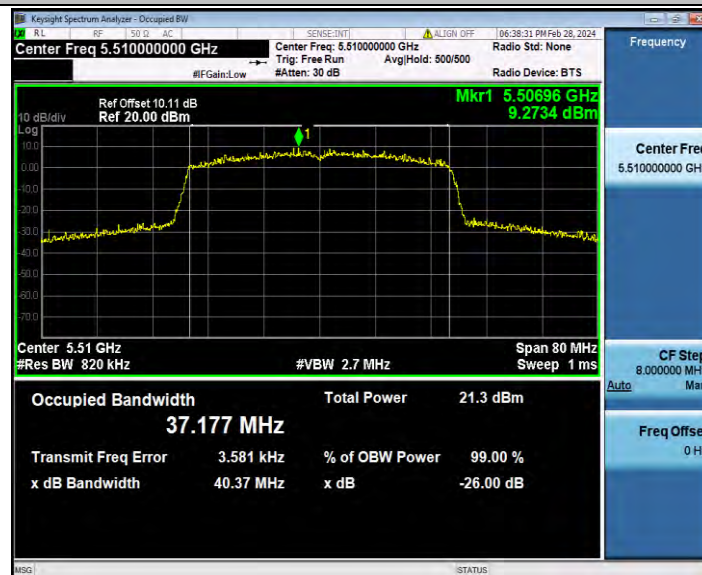
11AX20SISO_Ant1_5580



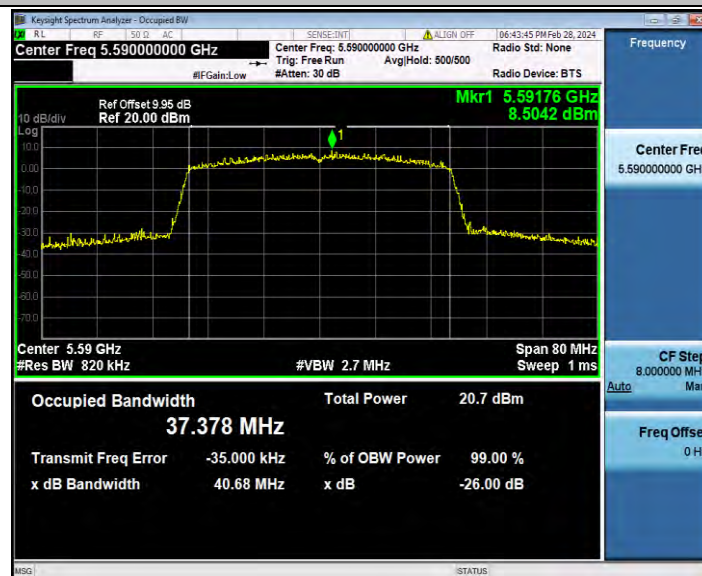
11AX20SISO_Ant1_5700

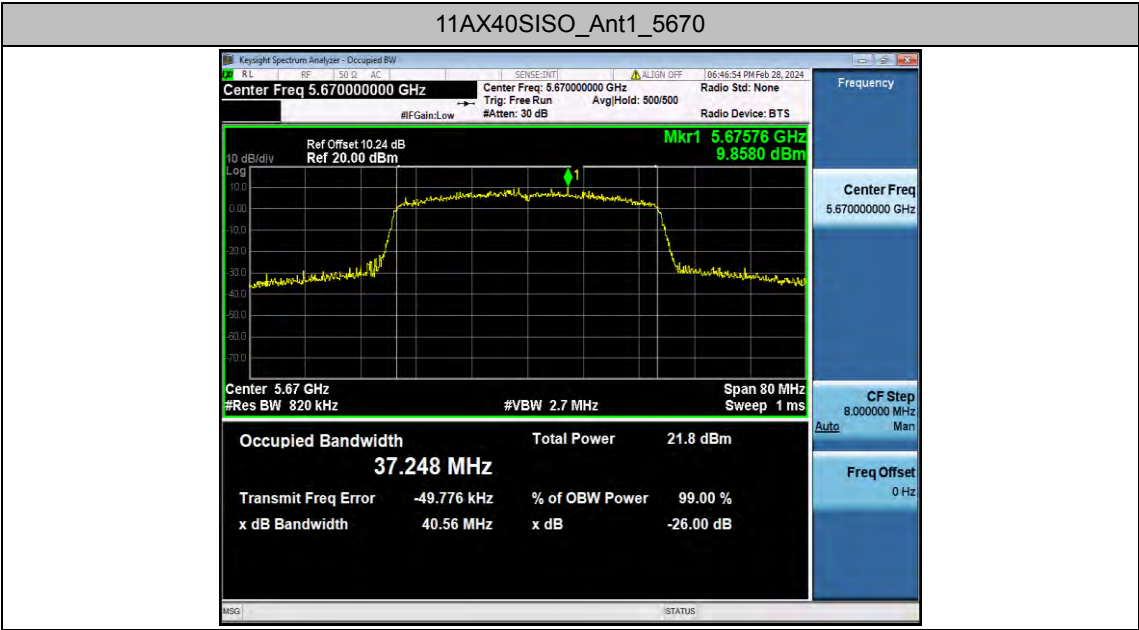


11AX40SISO_Ant1_5510



11AX40SISO_Ant1_5590





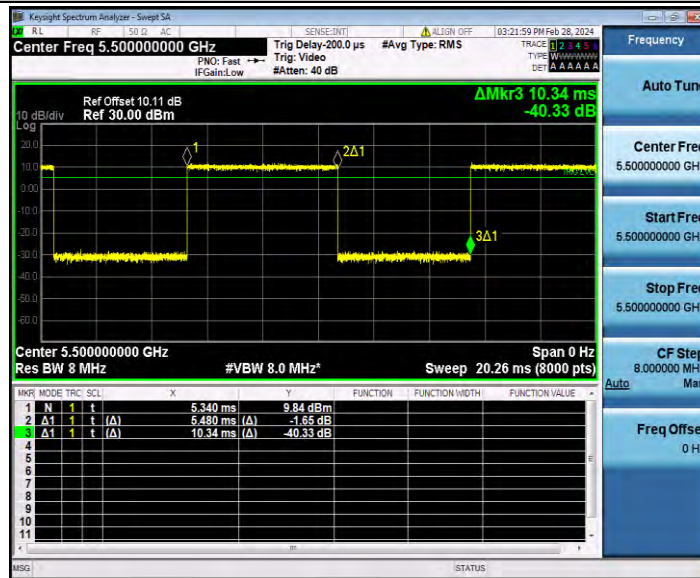
Appendix F.3: Duty Cycle

Test Result

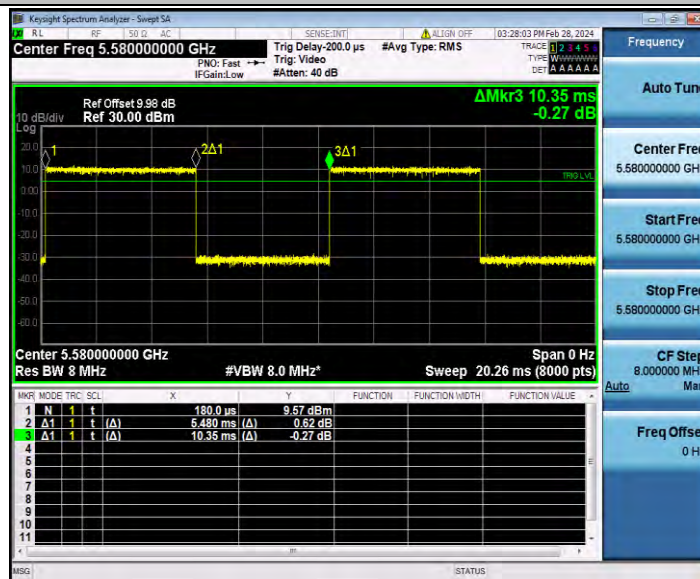
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5500	5.48	10.34	53.00	2.76	0.18
		5580	5.48	10.35	52.95	2.76	0.18
		5700	5.48	10.34	53.00	2.76	0.18
11N20SISO	Ant1	5500	5.37	10.35	51.88	2.85	0.19
		5580	5.38	10.34	52.03	2.84	0.19
		5700	5.37	5.51	97.46	0.11	0.19
11N40SISO	Ant1	5510	5.15	5.29	97.35	0.12	0.19
		5590	5.15	5.29	97.35	0.12	0.19
		5670	5.16	5.29	97.54	0.11	0.19
11AC20SISO	Ant1	5500	5.38	5.53	97.29	0.12	0.19
		5580	5.38	5.52	97.46	0.11	0.19
		5700	5.38	5.52	97.46	0.11	0.19
11AC40SISO	Ant1	5510	5.16	5.31	97.18	0.12	0.19
		5590	5.16	5.29	97.54	0.11	0.19
		5670	5.15	5.29	97.35	0.12	0.19
11AX20SISO	Ant1	5500	4.66	4.81	96.88	0.14	0.21
		5580	4.65	4.80	96.88	0.14	0.22
		5700	4.66	4.79	97.29	0.12	0.21
11AX40SISO	Ant1	5510	4.65	4.78	97.28	0.12	0.22
		5590	4.64	4.78	97.07	0.13	0.22
		5670	4.64	4.80	96.67	0.15	0.22

Test Graphs

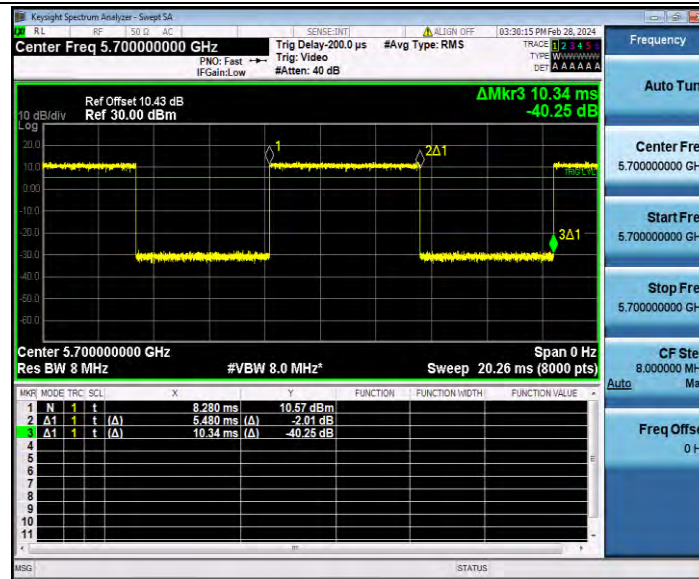
11A_Ant1_5500



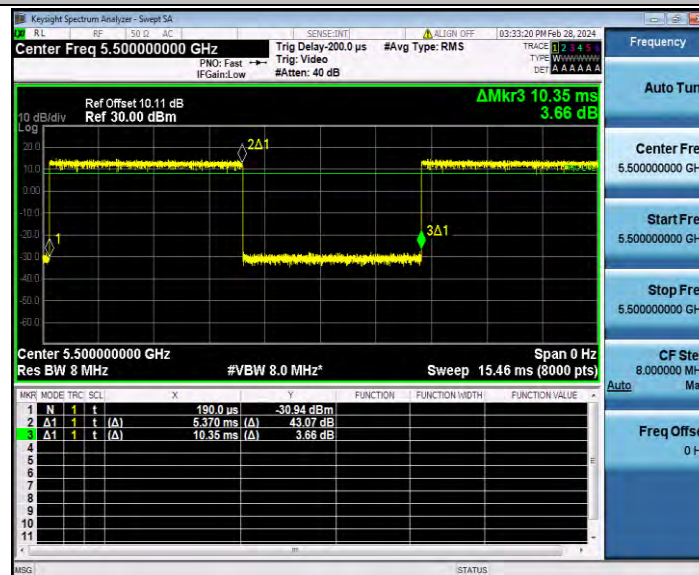
11A_Ant1_5580



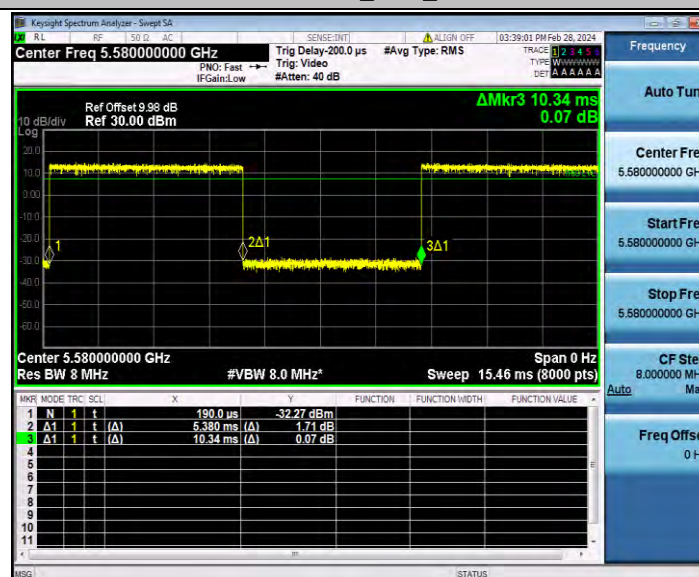
11A_Ant1_5700



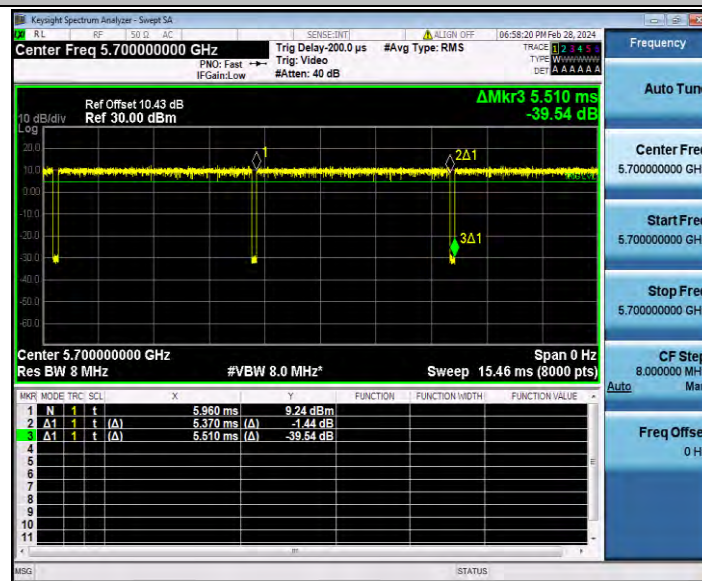
11N20SISO_Ant1_5500



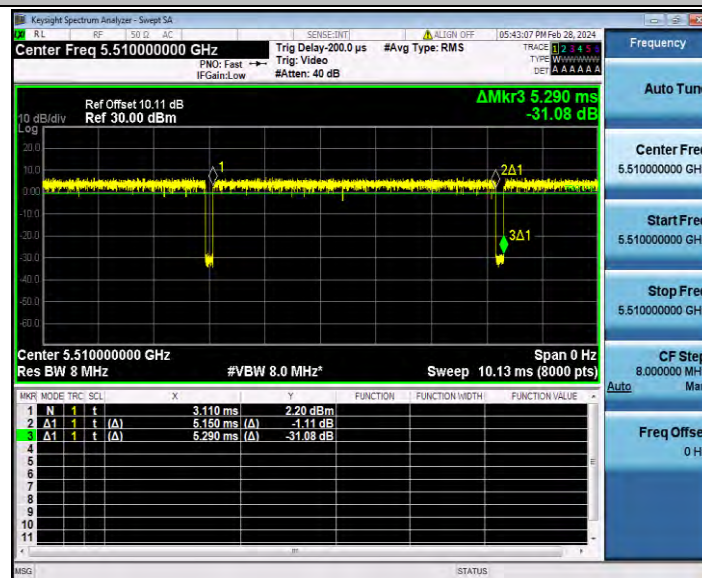
11N20SISO_Ant1_5580



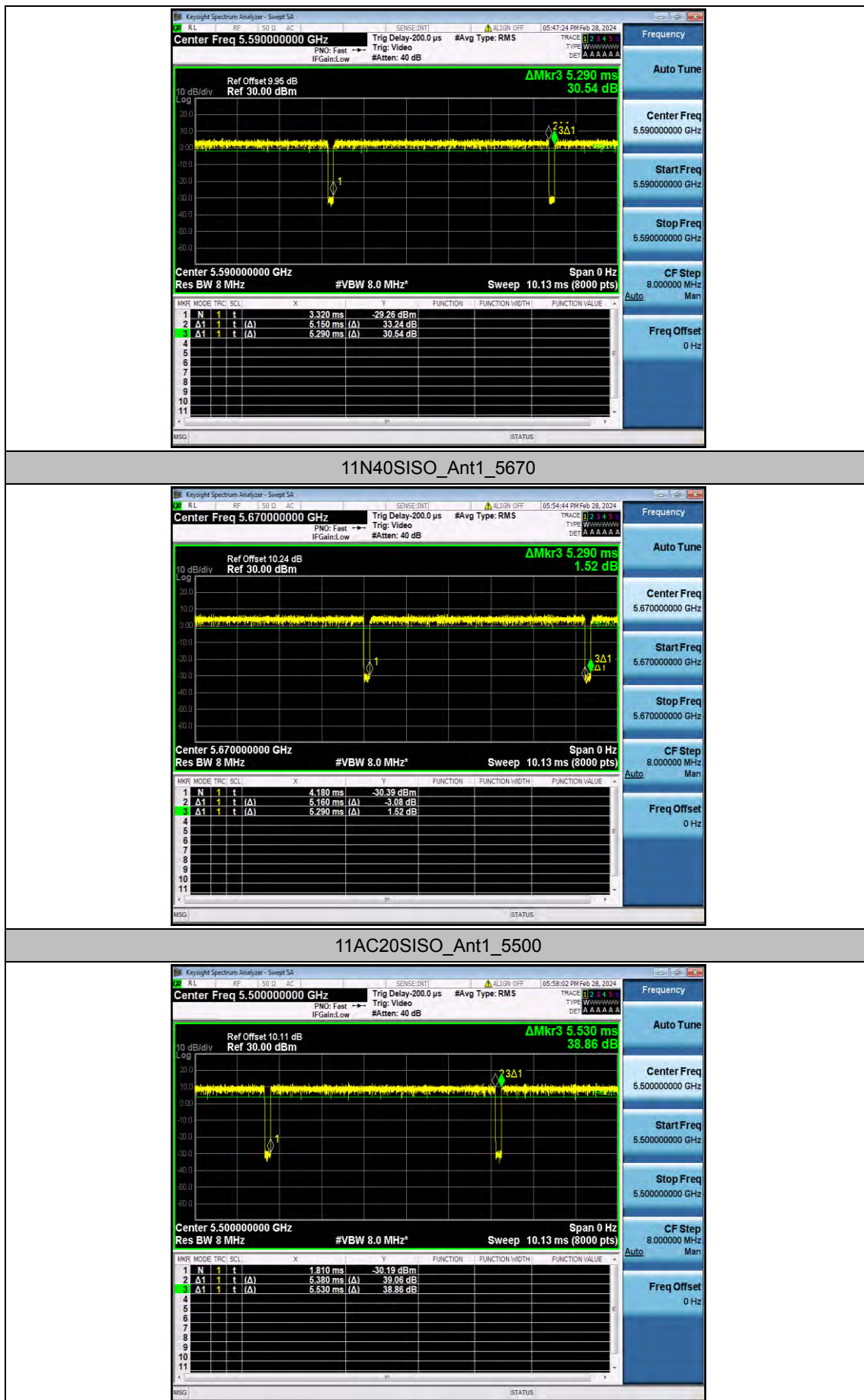
11N20SISO_Ant1_5700



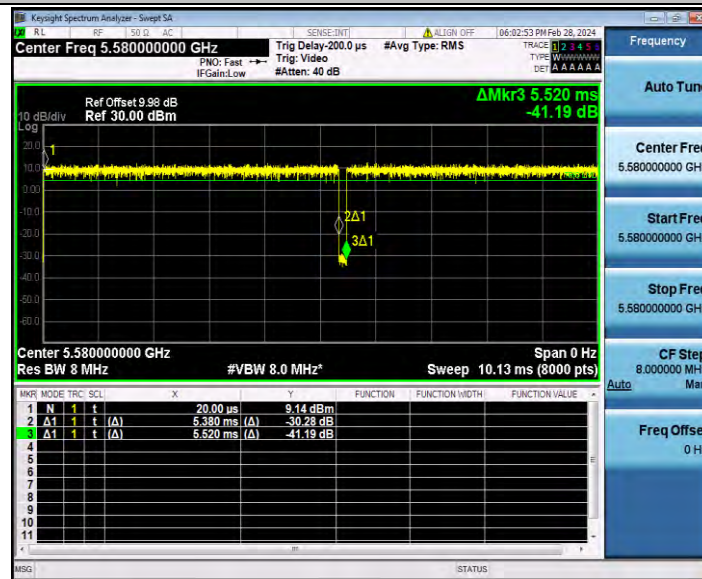
11N40SISO_Ant1_5510



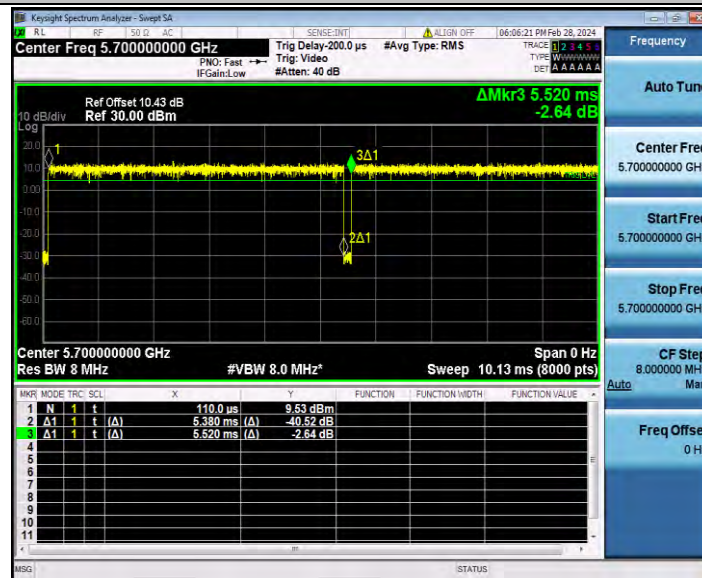
11N40SISO_Ant1_5590



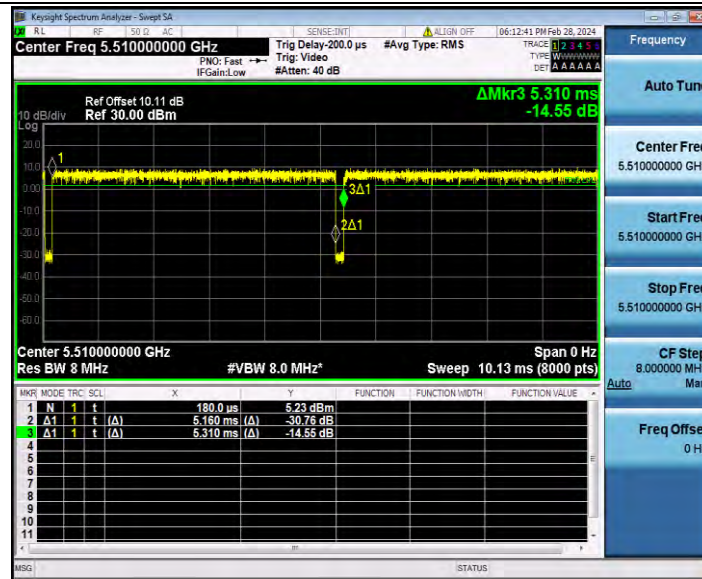
11AC20SISO_Ant1_5580



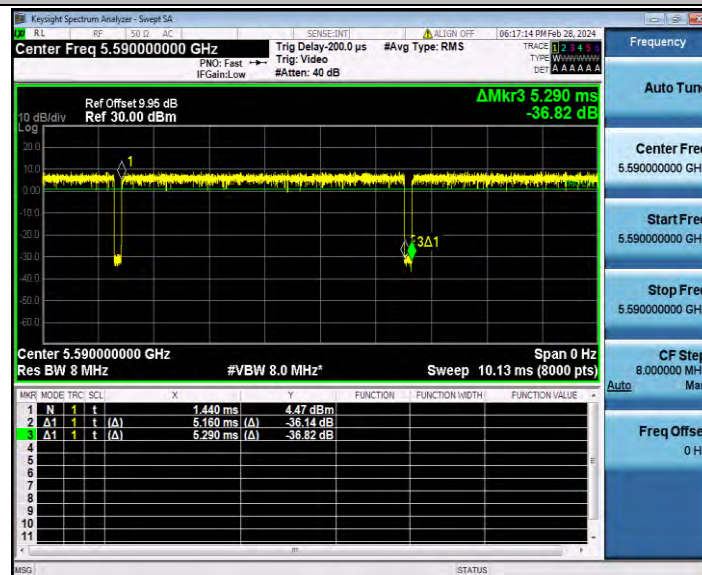
11AC20SISO_Ant1_5700



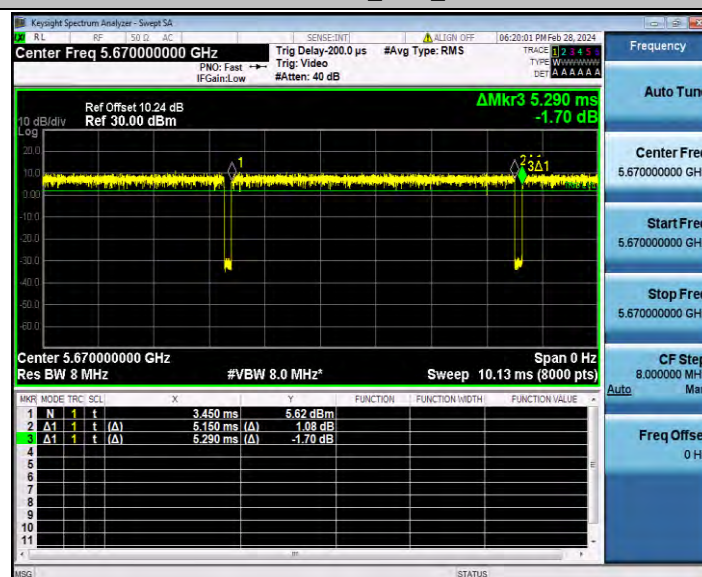
11AC40SISO_Ant1_5510



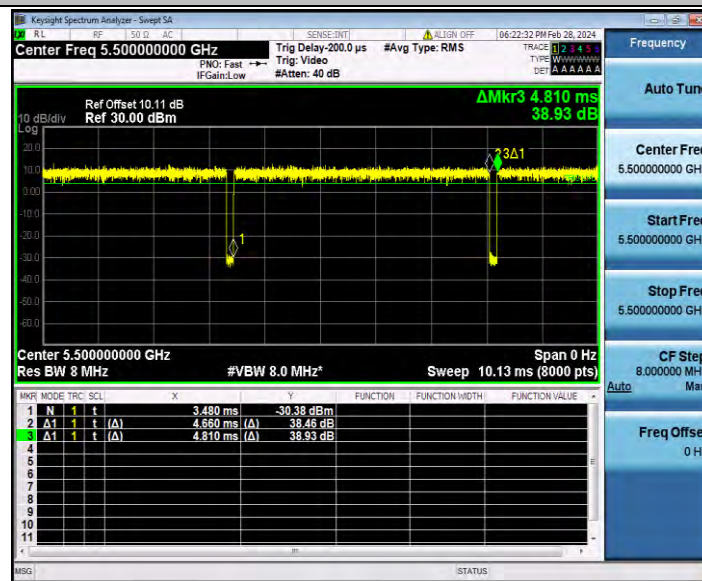
11AC40SISO_Ant1_5590



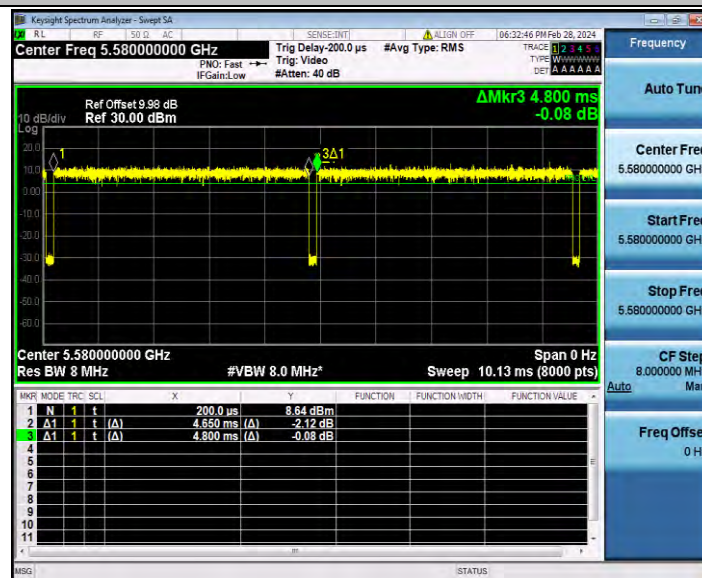
11AC40SISO_Ant1_5670



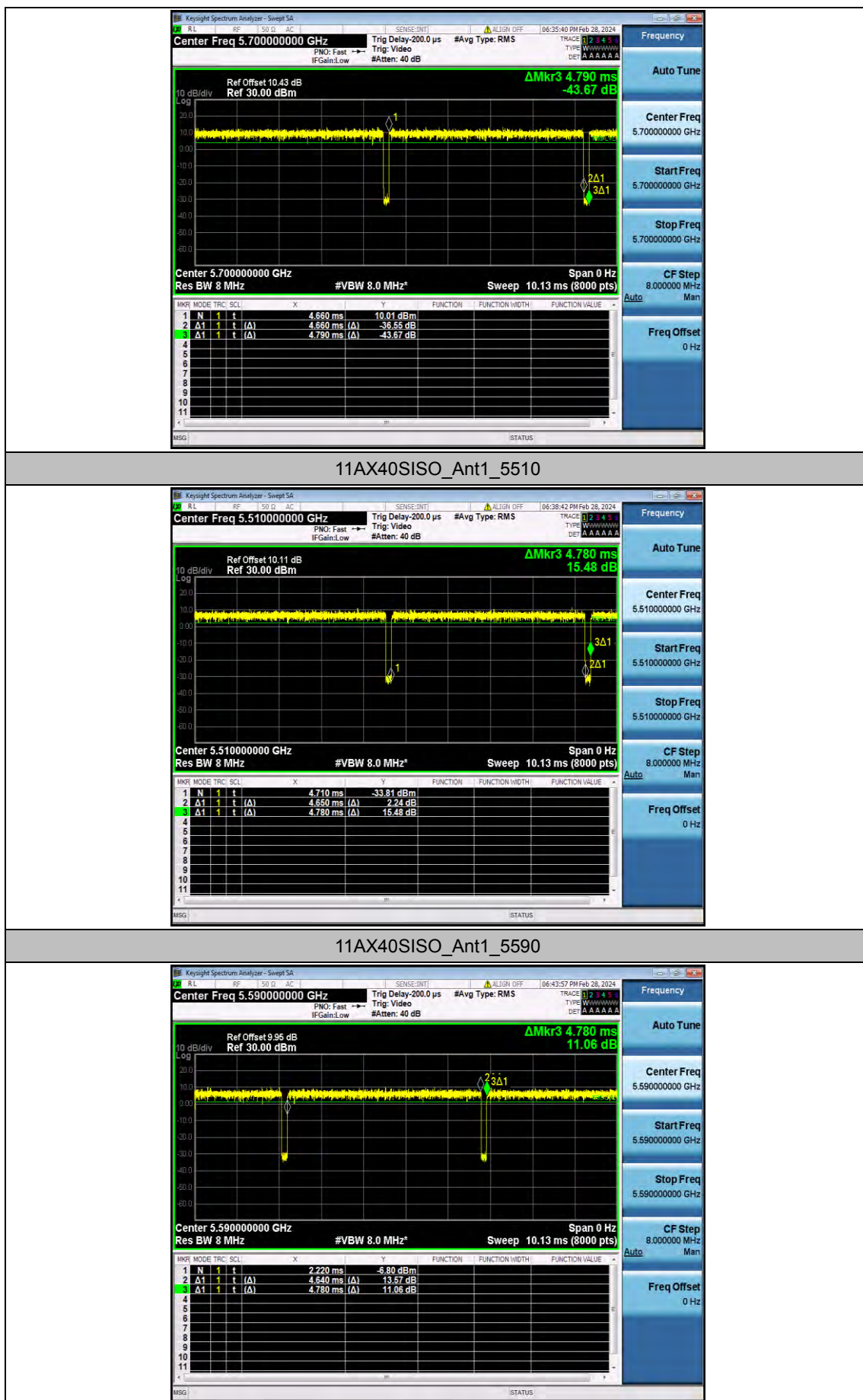
11AX20SISO_Ant1_5500

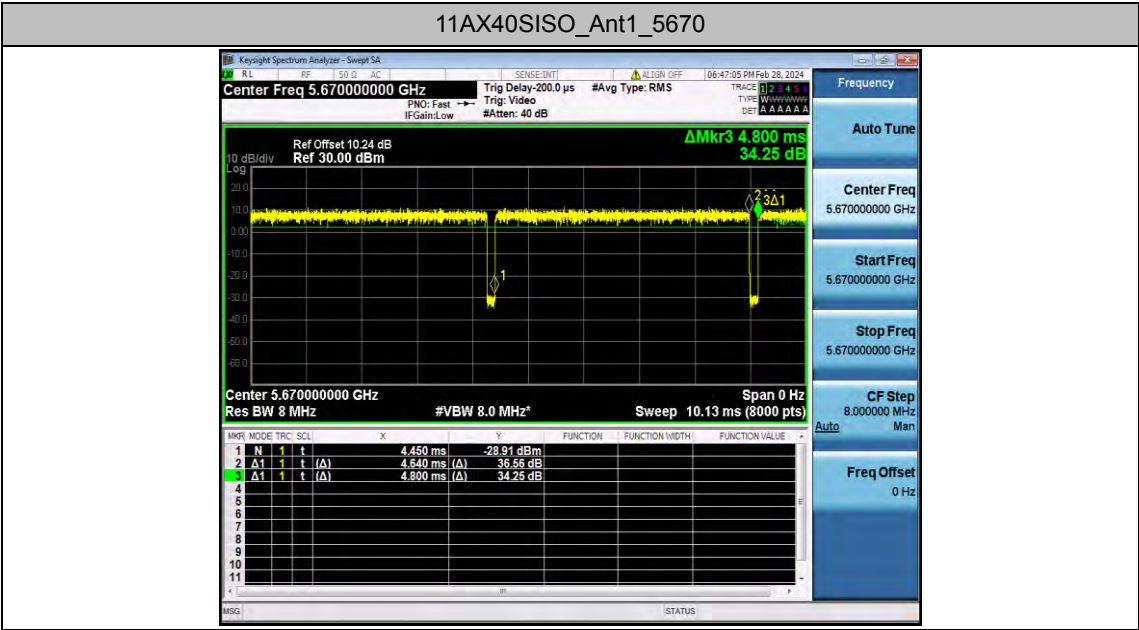


11AX20SISO_Ant1_5580



11AX20SISO_Ant1_5700





Appendix F.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	5500	11.14	53.00	2.76	13.90	≤23.98	PASS
		5580	10.62	52.95	2.76	13.38	≤23.98	PASS
		5700	11.40	53.00	2.76	14.16	≤23.98	PASS
11N20SI SO	Ant1	5500	13.65	51.88	2.85	16.50	≤23.98	PASS
		5580	13.69	52.03	2.84	16.53	≤23.98	PASS
		5700	12.37	97.46	0.11	12.48	≤23.98	PASS
11N40SI SO	Ant1	5510	9.61	97.35	0.12	9.73	≤23.98	PASS
		5590	8.68	97.35	0.12	8.80	≤23.98	PASS
		5670	9.46	97.54	0.11	9.57	≤23.98	PASS
11AC20S ISO	Ant1	5500	11.77	97.29	0.12	11.89	≤23.98	PASS
		5580	12.26	97.46	0.11	12.37	≤23.98	PASS
		5700	12.13	97.46	0.11	12.24	≤23.98	PASS
11AC40S ISO	Ant1	5510	12.10	97.18	0.12	12.22	≤23.98	PASS
		5590	11.75	97.54	0.11	11.86	≤23.98	PASS
		5670	12.95	97.35	0.12	13.07	≤23.98	PASS
11AX20SI SO	Ant1	5500	11.79	96.88	0.14	11.93	≤23.98	PASS
		5580	11.82	96.88	0.14	11.96	≤23.98	PASS
		5700	12.09	97.29	0.12	12.21	≤23.98	PASS
11AX40SI SO	Ant1	5510	12.25	97.28	0.12	12.37	≤23.98	PASS
		5590	11.78	97.07	0.13	11.91	≤23.98	PASS
		5670	12.89	96.67	0.15	13.04	≤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 F.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5500	4.99	≤11.00	PASS
		5580	4.54	≤11.00	PASS
		5700	5.22	≤11.00	PASS
11N20SISO	Ant1	5500	7.51	≤11.00	PASS
		5580	7.52	≤11.00	PASS
		5700	1.43	≤11.00	PASS
11N40SISO	Ant1	5510	-3.66	≤11.00	PASS
		5590	-4.72	≤11.00	PASS
		5670	-3.87	≤11.00	PASS
11AC20SISO	Ant1	5500	0.90	≤11.00	PASS
		5580	1.19	≤11.00	PASS
		5700	1.36	≤11.00	PASS
11AC40SISO	Ant1	5510	-1.13	≤11.00	PASS
		5590	-1.64	≤11.00	PASS
		5670	-0.52	≤11.00	PASS
11AX20SISO	Ant1	5500	0.73	≤11.00	PASS
		5580	0.77	≤11.00	PASS
		5700	1.15	≤11.00	PASS
11AX40SISO	Ant1	5510	-1.27	≤11.00	PASS
		5590	-1.96	≤11.00	PASS
		5670	-0.74	≤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_5500



11A_Ant1_5580



11A_Ant1_5700



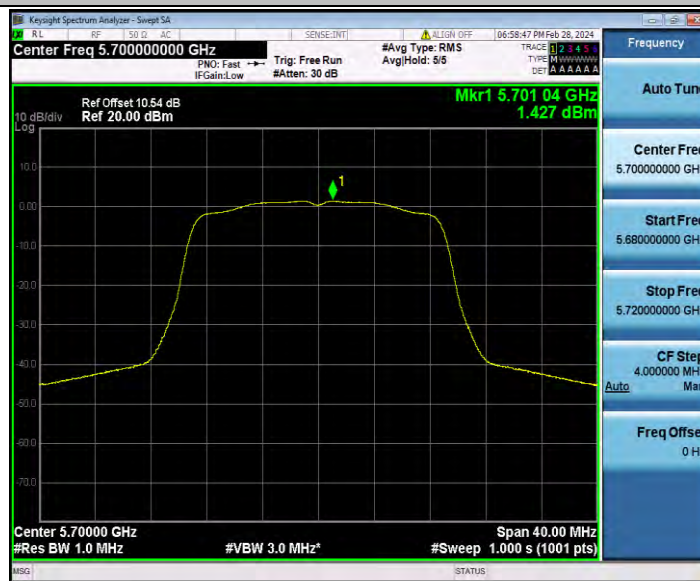
11N20SISO_Ant1_5500



11N20SISO_Ant1_5580



11N20SISO_Ant1_5700



11N40SISO_Ant1_5510



11N40SISO_Ant1_5590



11N40SISO_Ant1_5670



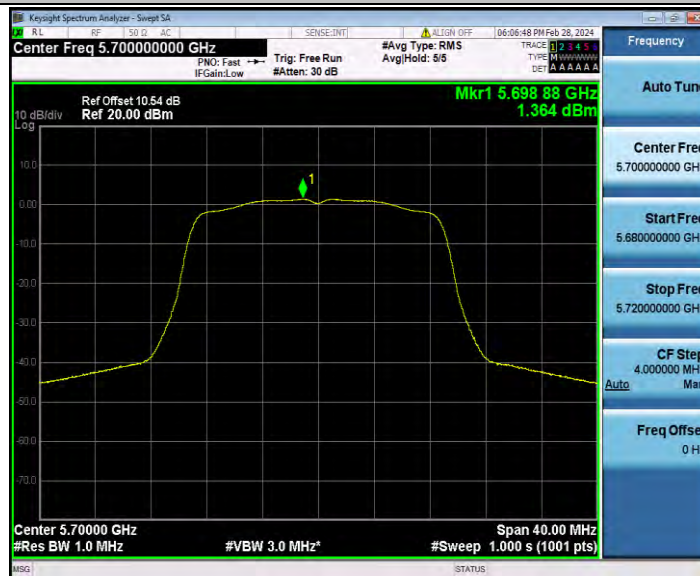
11AC20SISO_Ant1_5500



11AC20SISO_Ant1_5580



11AC20SISO_Ant1_5700



11AC40SISO_Ant1_5510



11AC40SISO_Ant1_5590



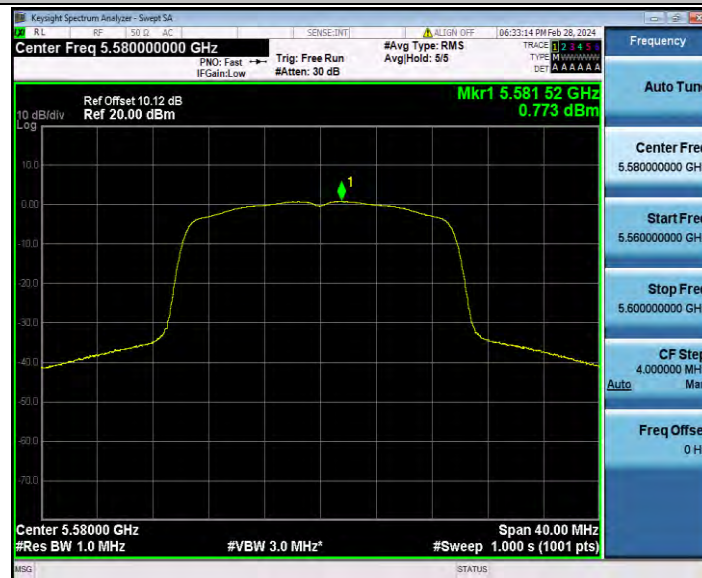
11AC40SISO_Ant1_5670



11AX20SISO_Ant1_5500



11AX20SISO_Ant1_5580



11AX20SISO_Ant1_5700



11AX40SISO_Ant1_5510



11AX40SISO_Ant1_5590



