

11.3. APPENDIX C: DUTY CYCLE

11.3.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11AX20	0.31	0.34	0.9118	91.18	0.40	3.23	4
11AX40	0.30	0.33	0.9091	90.91	0.41	3.33	4
11AX80	0.29	0.32	0.9063	90.63	0.43	3.45	4
11AX160	0.29	0.33	0.8788	87.88	0.56	3.45	4

Note:

Duty Cycle Correction Factor= $10\log(1/x)$.

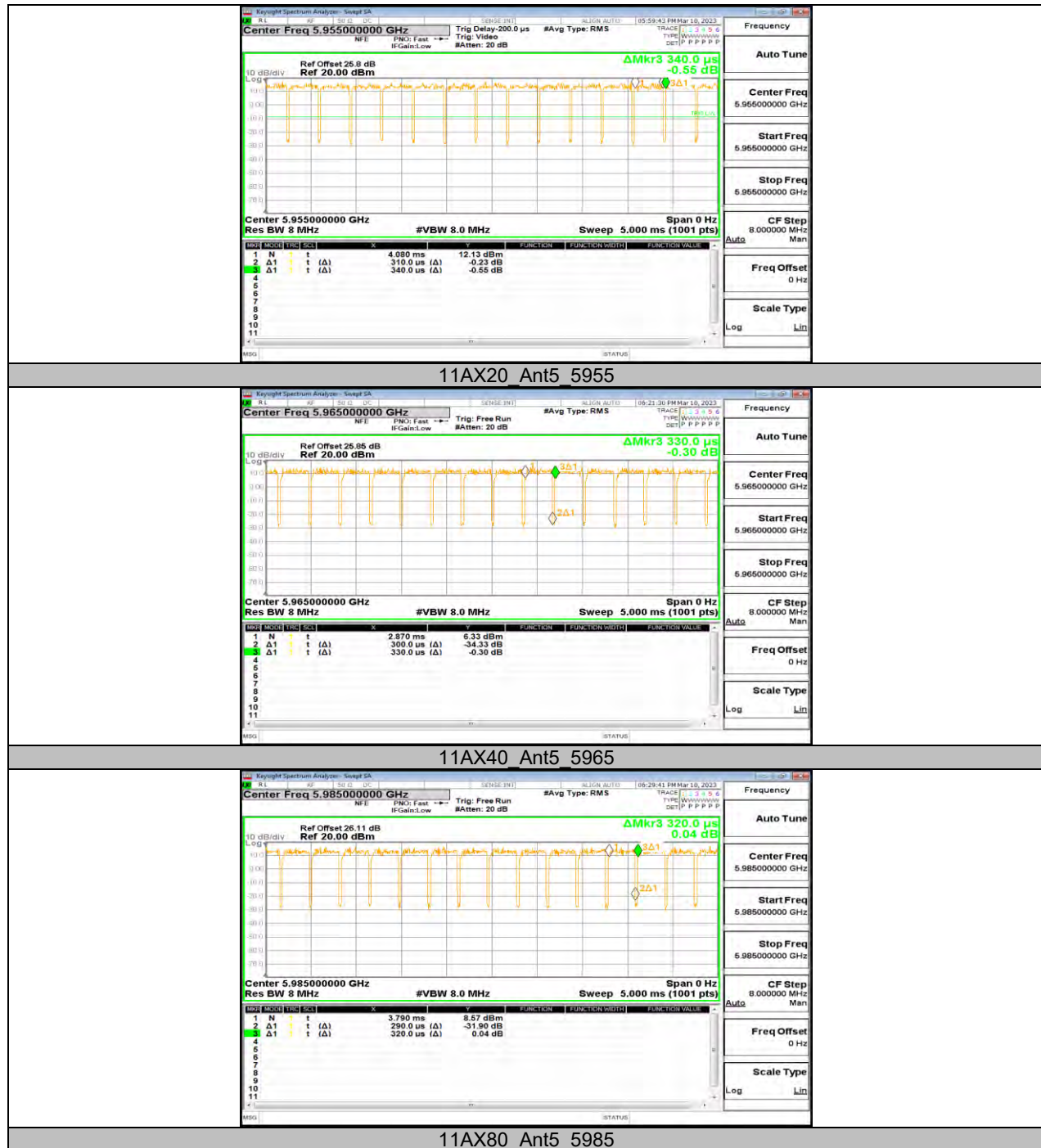
Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

Note: All the modes had been tested, but only the worst data was recorded in the report.

11.3.2. Test Graphs





Note: All the modes had been tested, but only the worst data was recorded in the report.

11.4. APPENDIX D: MAXIMUM AVERAGE CONDUCTED OUTPUT POWER

Mode	Frequency (MHz)	Average Conducted Power (dBm)			Directional gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
		ANT5	ANT6	Total			
802.11ax HE20	5955	7.95	8.29	11.13	5.51	16.64	30.00
	6175	7.16	7.59	10.39	5.51	15.90	30.00
	6415	7.72	8.08	10.91	5.51	16.42	30.00
	6435	7.92	8.29	11.12	5.51	16.63	30.00
	6475	7.98	8.19	11.10	5.51	16.61	30.00
	6515	8.10	8.13	11.13	5.51	16.64	30.00
	6535	7.59	7.93	10.77	5.51	16.28	30.00
	6715	7.47	7.50	10.50	5.51	16.01	30.00
	6855	7.34	7.61	10.49	5.51	16.00	30.00
	6875	7.33	7.56	10.46	5.51	15.97	30.00
	7015	7.67	7.69	10.69	5.51	16.20	30.00
	7115	7.95	7.66	10.82	5.51	16.33	30.00
802.11ax HE40	5965	10.57	10.54	13.57	5.51	19.08	30.00
	6125	10.70	10.59	13.66	5.51	19.17	30.00
	6405	10.82	10.92	13.88	5.51	19.39	30.00
	6445	10.46	9.90	13.20	5.51	18.71	30.00
	6485	10.94	11.01	13.99	5.51	19.50	30.00
	6525	10.64	10.66	13.66	5.51	19.17	30.00
	6725	10.62	10.86	13.75	5.51	19.26	30.00
	6845	10.65	10.76	13.72	5.51	19.23	30.00
	6885	10.41	10.43	13.43	5.51	18.94	30.00
	7005	10.87	10.97	13.93	5.51	19.44	30.00
802.11ax HE80	5985	12.75	12.82	15.80	5.51	21.31	30.00
	6145	13.56	13.14	16.37	5.51	21.88	30.00
	6385	13.61	13.71	16.67	5.51	22.18	30.00
	6465	13.38	13.16	16.28	5.51	21.79	30.00
	6545	13.44	13.07	16.27	5.51	21.78	30.00
	6705	13.20	13.17	16.20	5.51	21.71	30.00
	6865	13.64	13.47	16.57	5.51	22.08	30.00
	6945	13.47	13.40	16.45	5.51	21.96	30.00
	7025	13.65	13.54	16.61	5.51	22.12	30.00
802.11ax HE160	6025	16.54	16.36	19.46	5.51	24.97	30.00
	6185	16.80	16.54	19.68	5.51	25.19	30.00
	6345	16.83	16.53	19.69	5.51	25.20	30.00
	6505	16.61	16.20	19.42	5.51	24.93	30.00
	6665	16.99	16.52	19.77	5.51	25.28	30.00

	6825	17.04	16.56	19.82	5.51	25.33	30.00
	6985	16.63	16.15	19.41	5.51	24.92	30.00

Note: All the modes had been tested, but only the worst data was recorded in the report.

11.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

11.5.1. Test Result

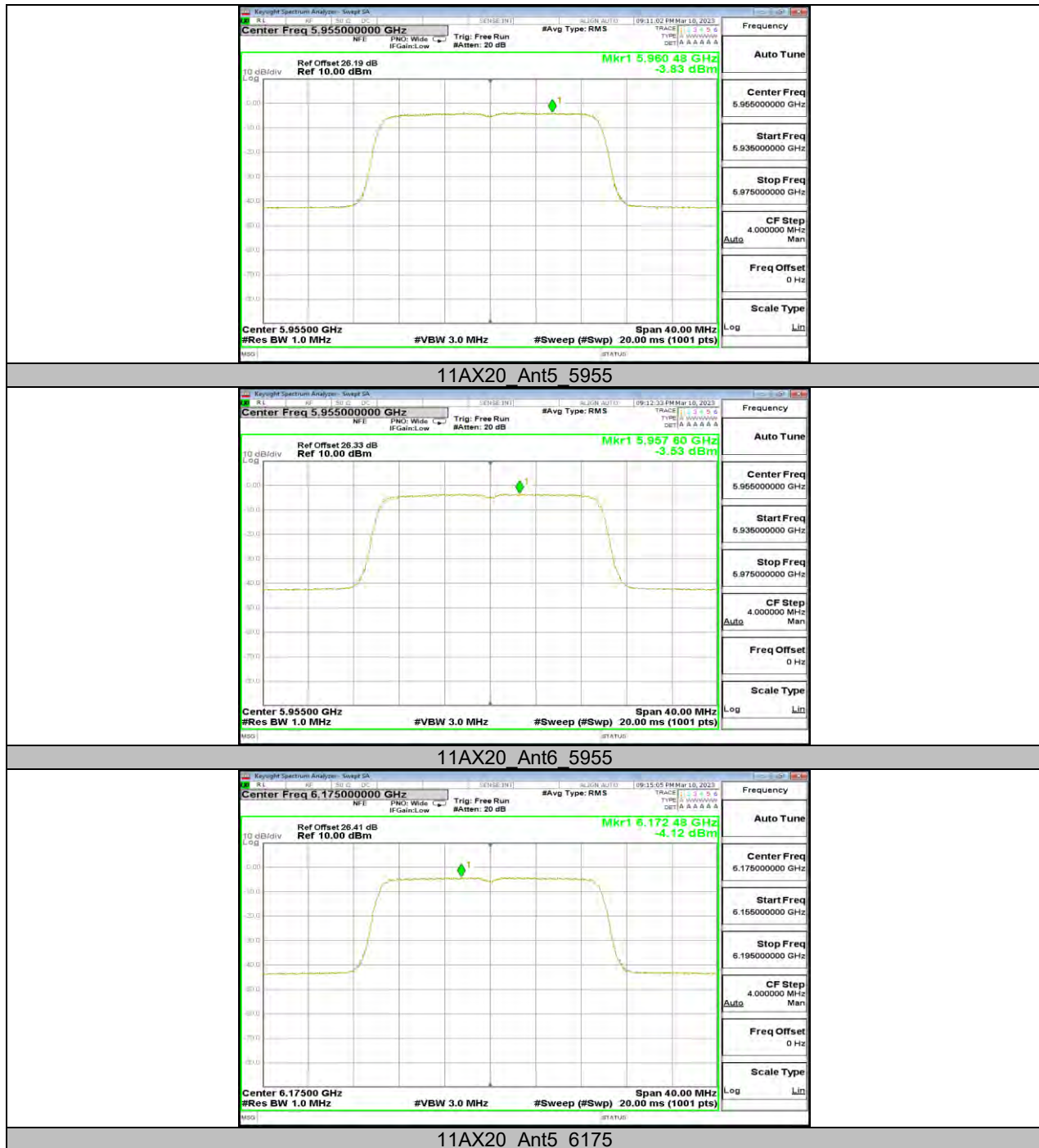
Mode	Frequency (MHz)	PSD (dBm/MHz)			Directional gain (dBi)	EIRP PSD (dBm/MHz)	EIRP Limit (dBm/MHz)
		ANT5	ANT6	Total			
802.11ax HE20	5955	-3.83	-3.53	-0.67	5.51	4.84	5.00
	6175	-4.12	-4.23	-1.16	5.51	4.35	5.00
	6415	-4.07	-3.81	-0.93	5.51	4.58	5.00
	6435	-3.88	-3.51	-0.68	5.51	4.83	5.00
	6475	-3.8	-3.56	-0.67	5.51	4.84	5.00
	6515	-3.72	-3.56	-0.63	5.51	4.88	5.00
	6535	-4.32	-3.81	-1.05	5.51	4.46	5.00
	6715	-4.28	-4.26	-1.26	5.51	4.25	5.00
	6855	-4.56	-4.13	-1.33	5.51	4.18	5.00
	6875	-4.5	-4.11	-1.29	5.51	4.22	5.00
	7015	-4.2	-4.24	-1.21	5.51	4.30	5.00
	7115	-4.06	-4.06	-1.05	5.51	4.46	5.00
802.11ax HE40	5965	-3.92	-4.17	-1.03	5.51	4.48	5.00
	6125	-3.94	-3.92	-0.92	5.51	4.59	5.00
	6405	-3.72	-3.8	-0.75	5.51	4.76	5.00
	6445	-4.1	-4.62	-1.34	5.51	4.17	5.00
	6485	-3.86	-3.58	-0.71	5.51	4.80	5.00
	6525	-4.1	-3.87	-0.97	5.51	4.54	5.00
	6725	-4.19	-3.78	-0.97	5.51	4.54	5.00
	6845	-3.91	-4	-0.94	5.51	4.57	5.00
	6885	-4.17	-4.37	-1.26	5.51	4.25	5.00
	7005	-3.71	-3.67	-0.68	5.51	4.83	5.00
	7085	-4.02	-4.09	-1.04	5.51	4.47	5.00
802.11ax HE80	5985	-4.32	-4.39	-1.34	5.51	4.17	5.00
	6145	-4.09	-4.39	-1.23	5.51	4.28	5.00
	6385	-4.01	-3.85	-0.92	5.51	4.59	5.00
	6465	-3.81	-4.2	-0.99	5.51	4.52	5.00
	6545	-4.13	-4.27	-1.19	5.51	4.32	5.00
	6705	-4.1	-4.2	-1.14	5.51	4.37	5.00
	6865	-3.83	-4.1	-0.95	5.51	4.56	5.00
	6945	-3.94	-4.09	-1.00	5.51	4.51	5.00
	7025	-3.79	-4.02	-0.89	5.51	4.62	5.00
802.11ax HE160	6025	-4.28	-4.21	-1.23	5.51	4.28	5.00
	6185	-3.75	-4.21	-0.96	5.51	4.55	5.00
	6345	-3.63	-4.07	-0.83	5.51	4.68	5.00
	6505	-3.68	-4.29	-0.96	5.51	4.55	5.00

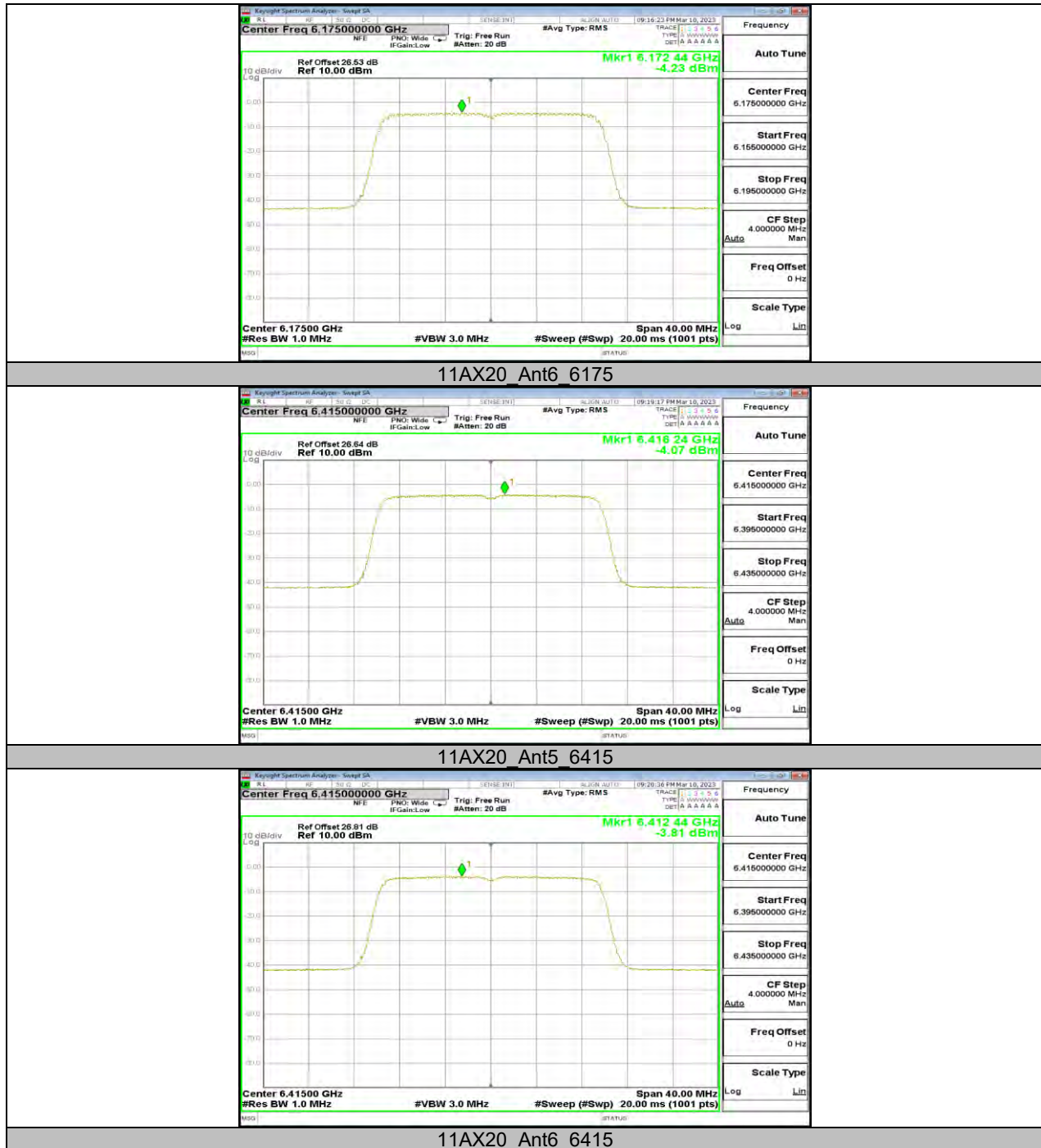
	6665	-3.85	-4.08	-0.95	5.51	4.56	5.00
	6825	-3.57	-3.96	-0.75	5.51	4.76	5.00
	6985	-3.68	-4.06	-0.86	5.51	4.65	5.00

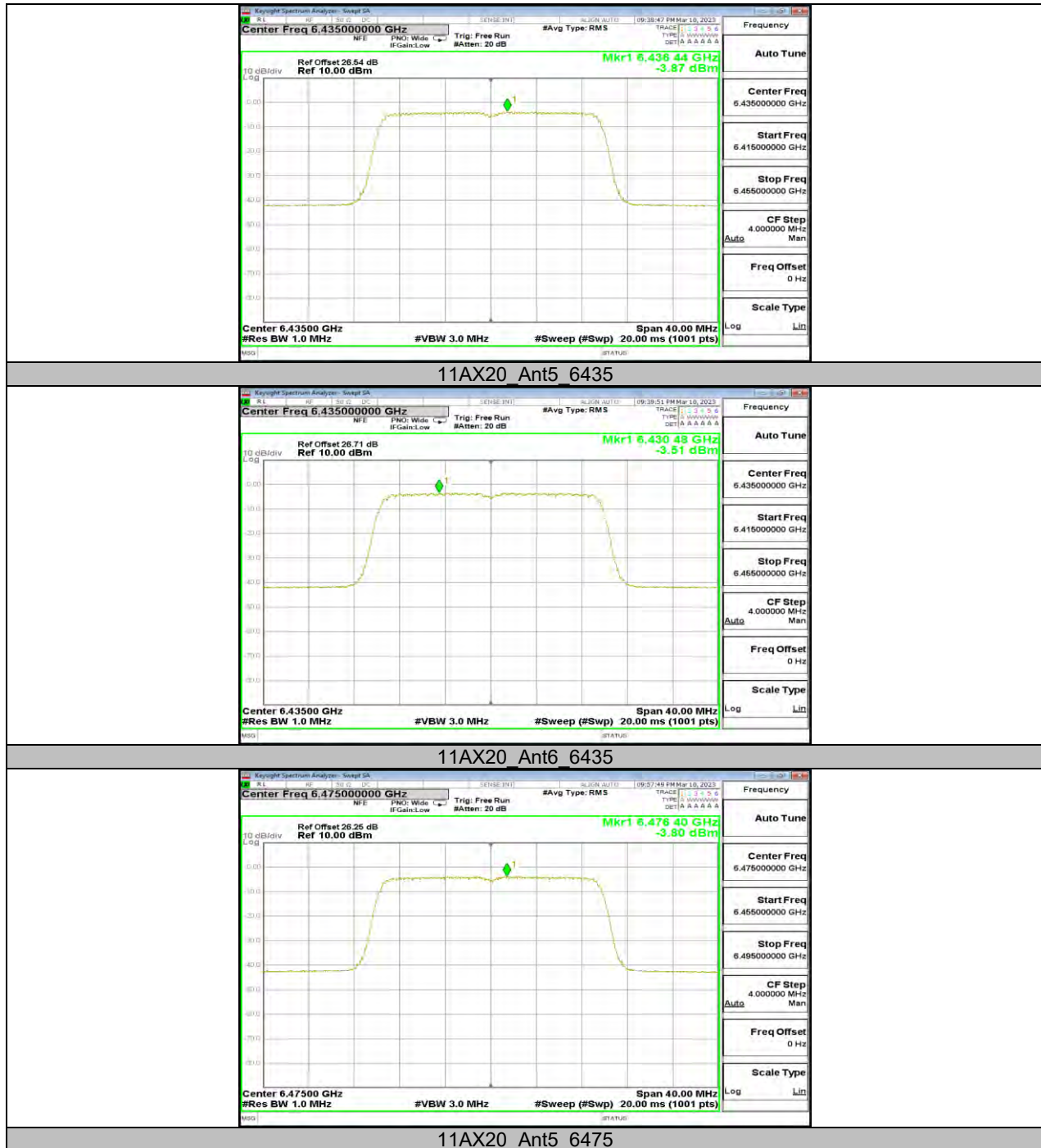
Note: The Duty Cycle Factor and RBW Factor is compensated in the graph.

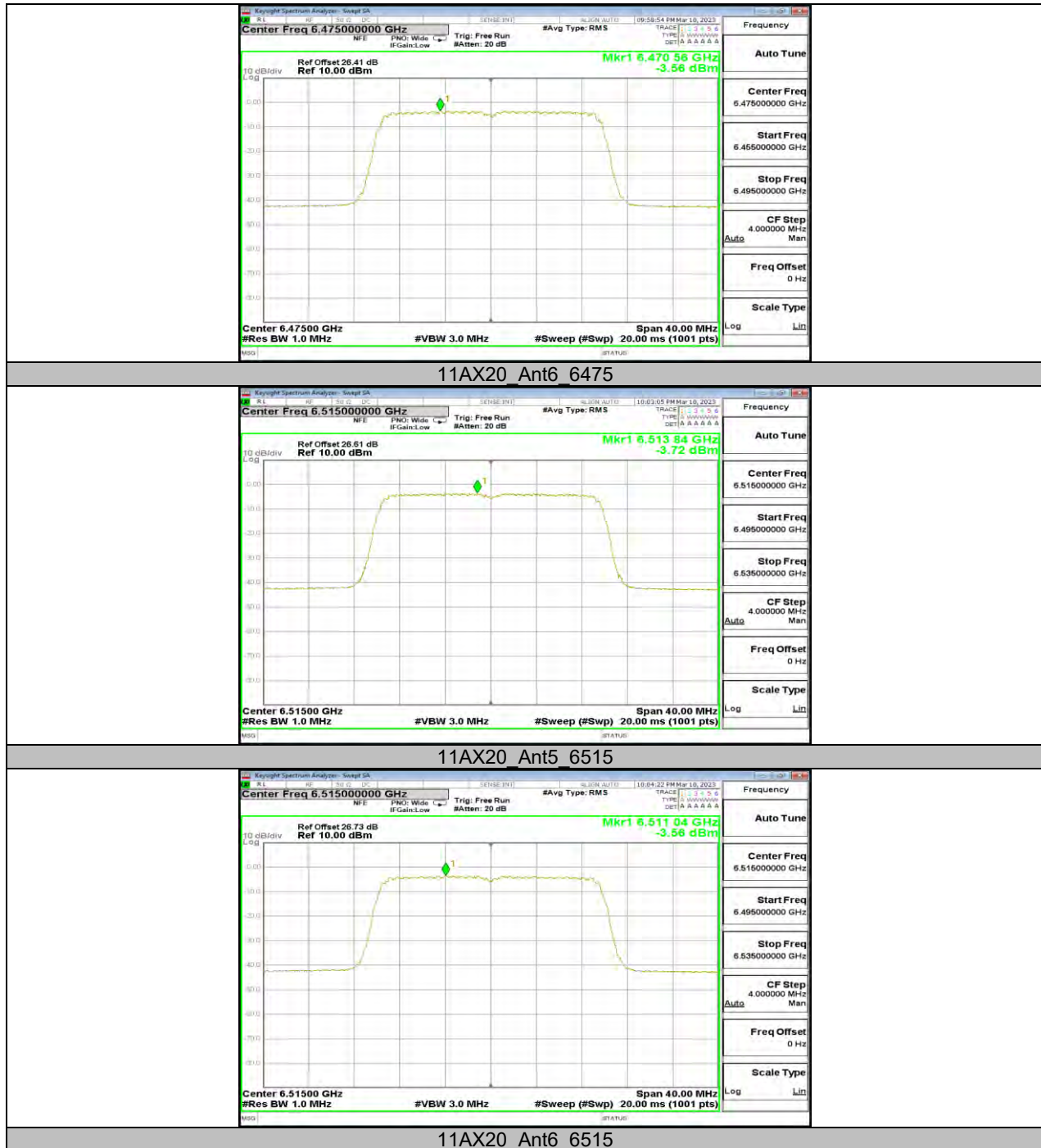
Note: All the modes had been tested, but only the worst data was recorded in the report.

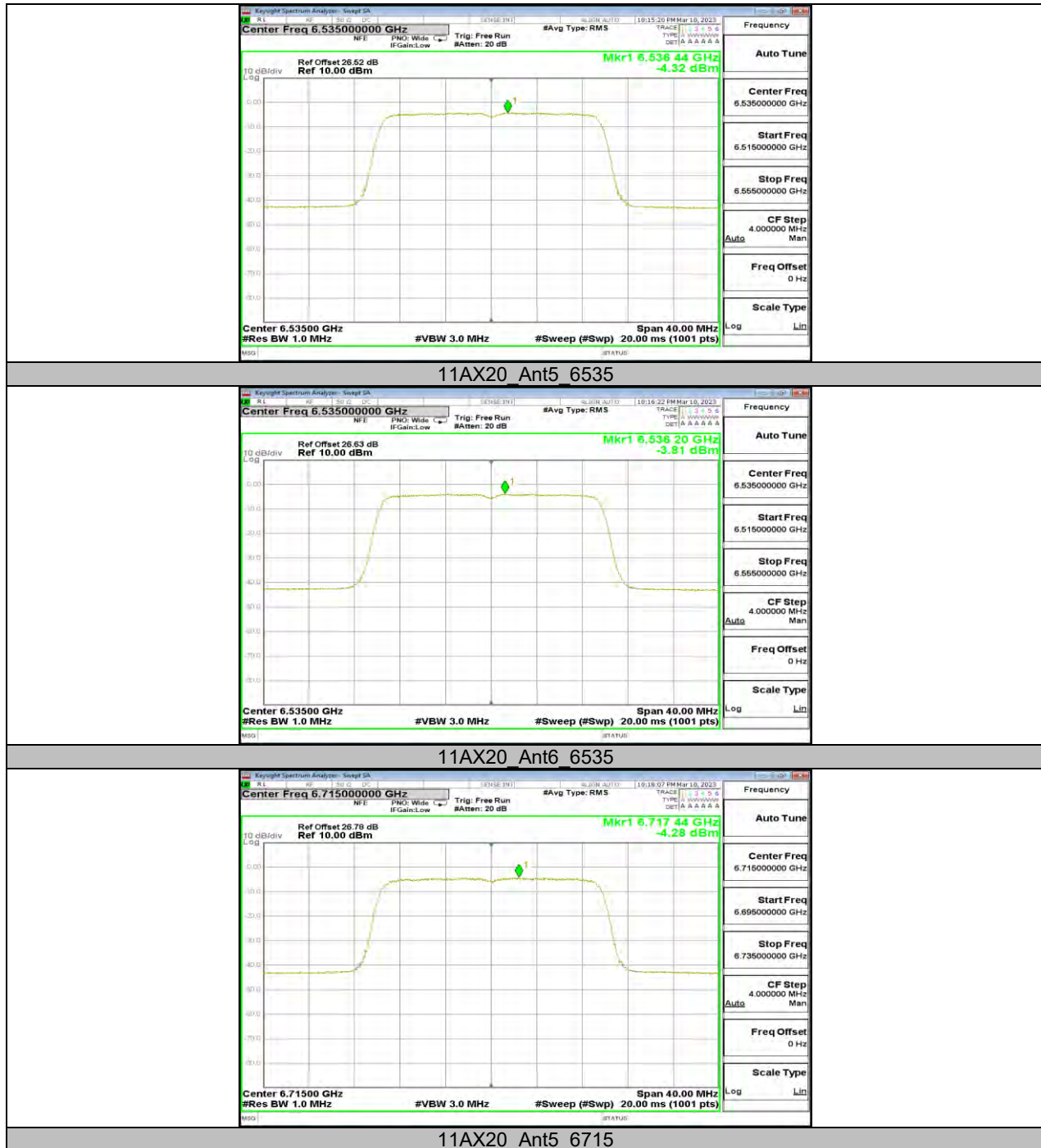
11.5.2. Test Graphs

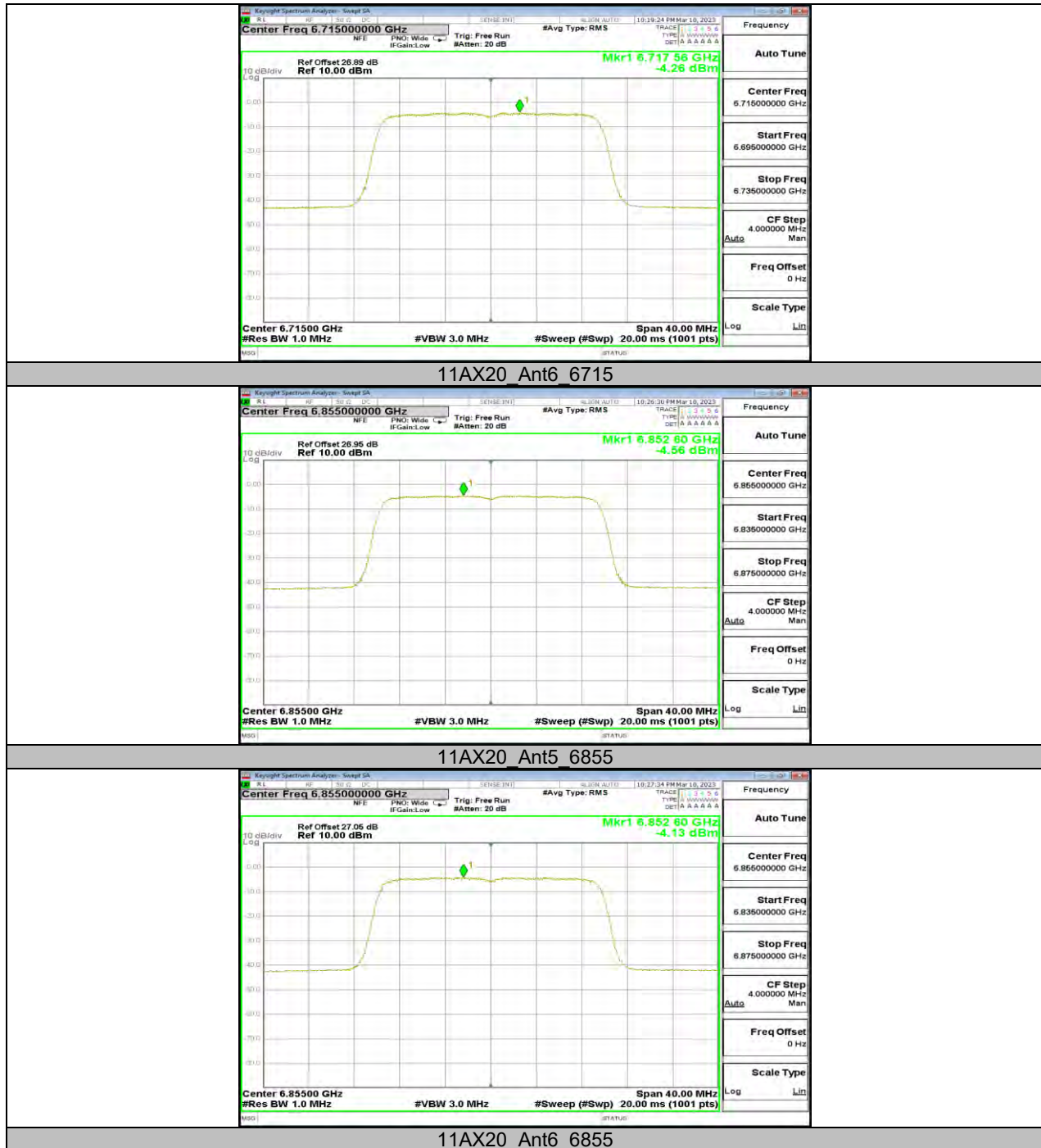


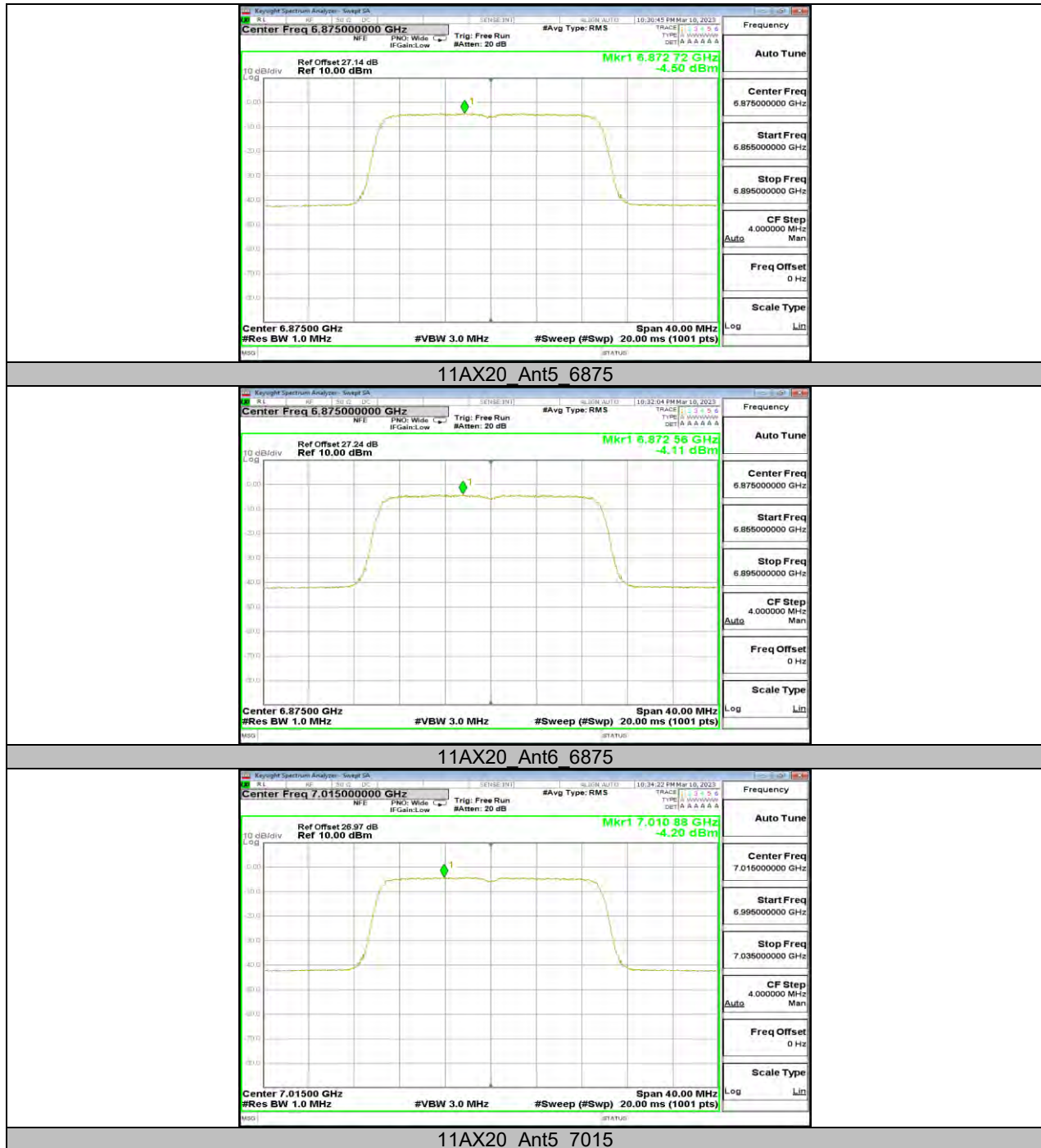


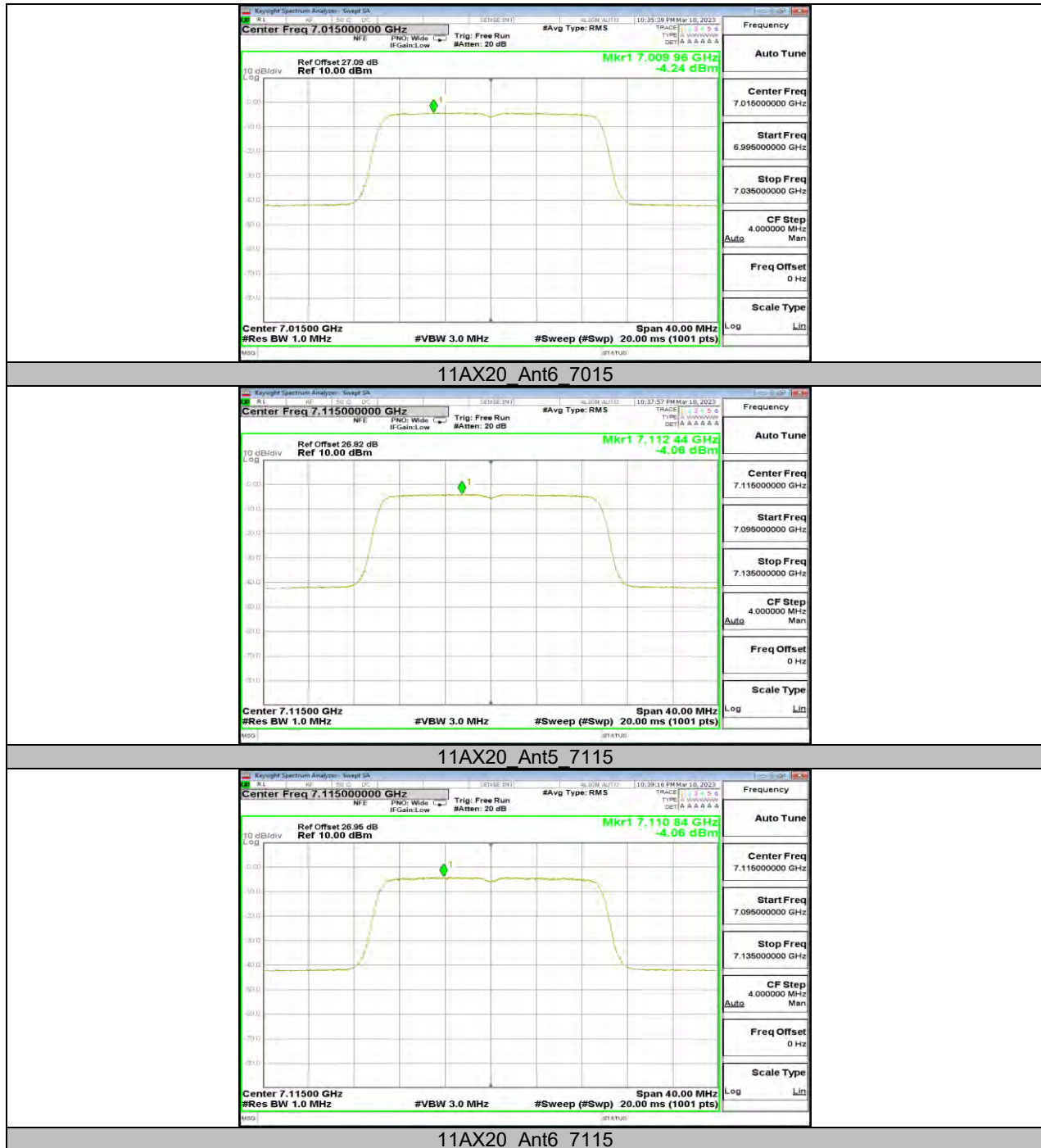


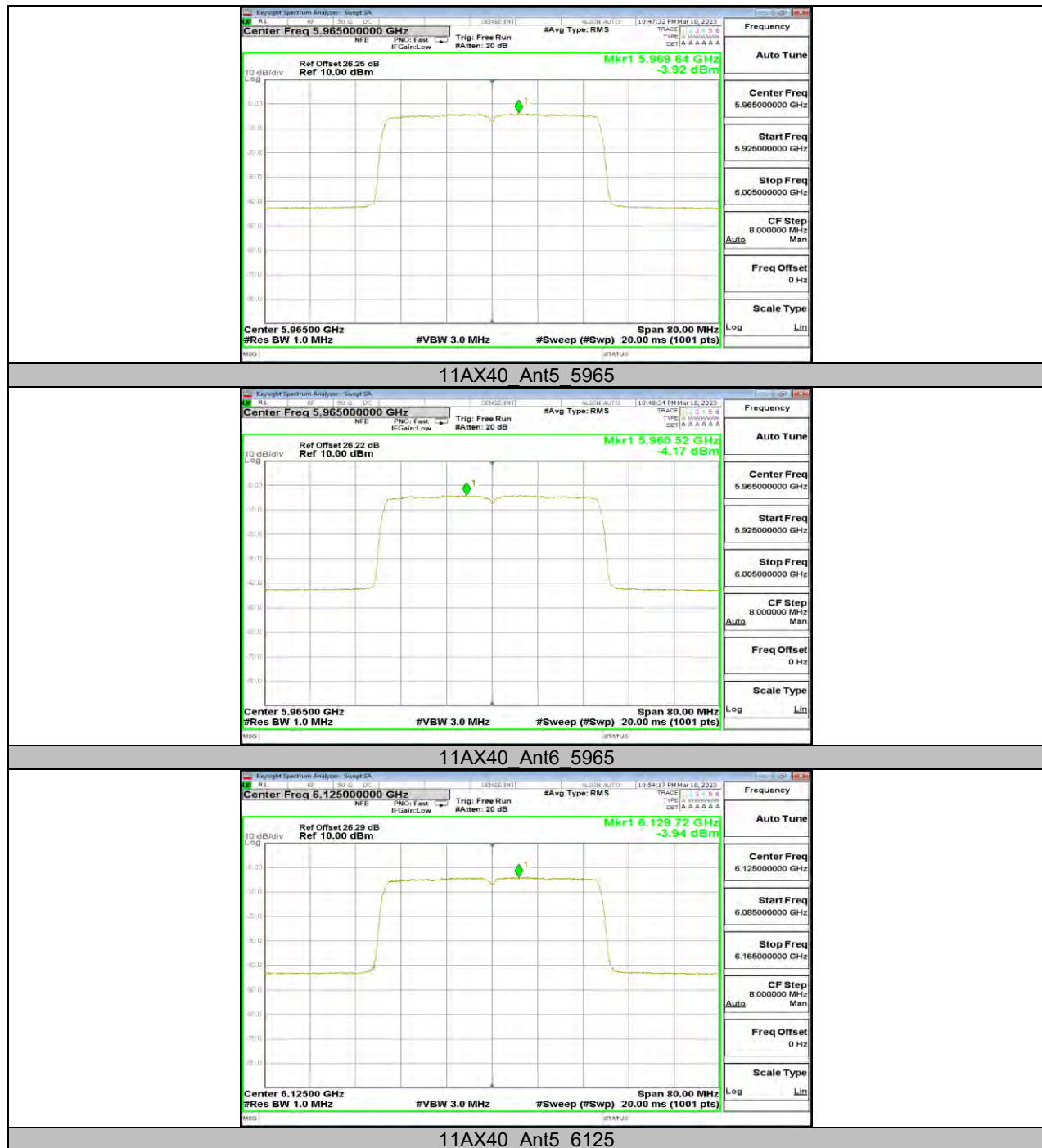


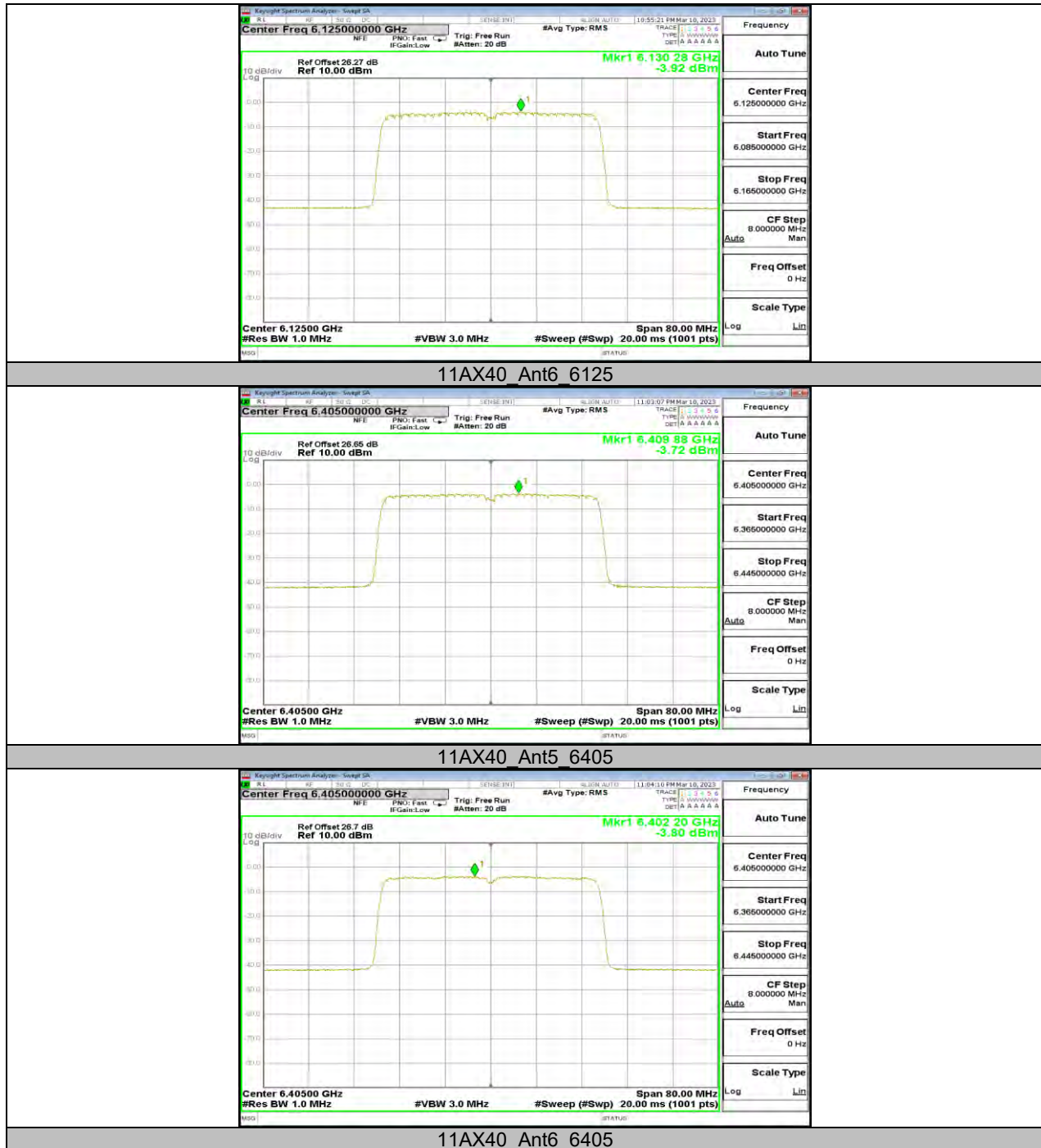


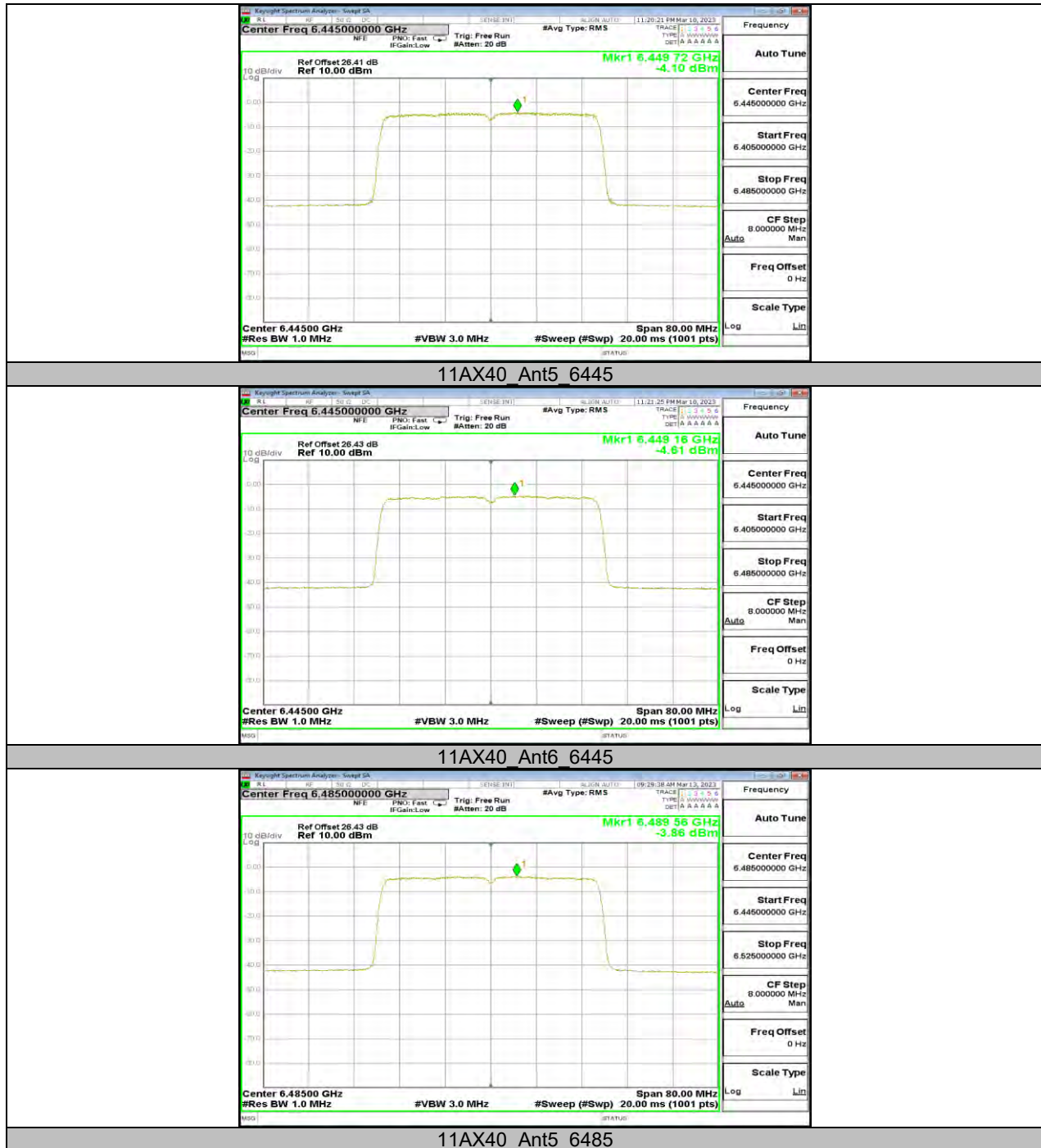


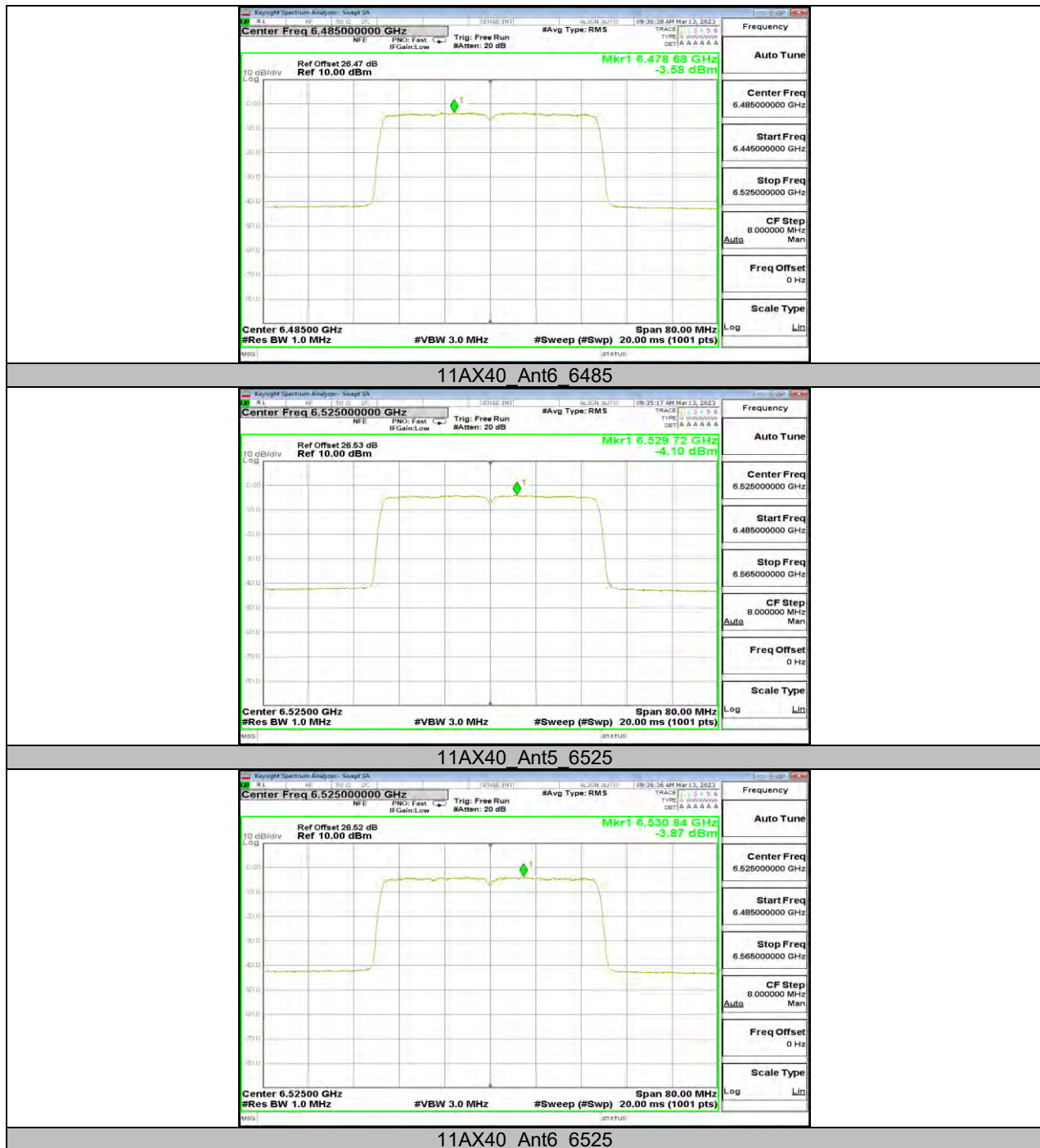


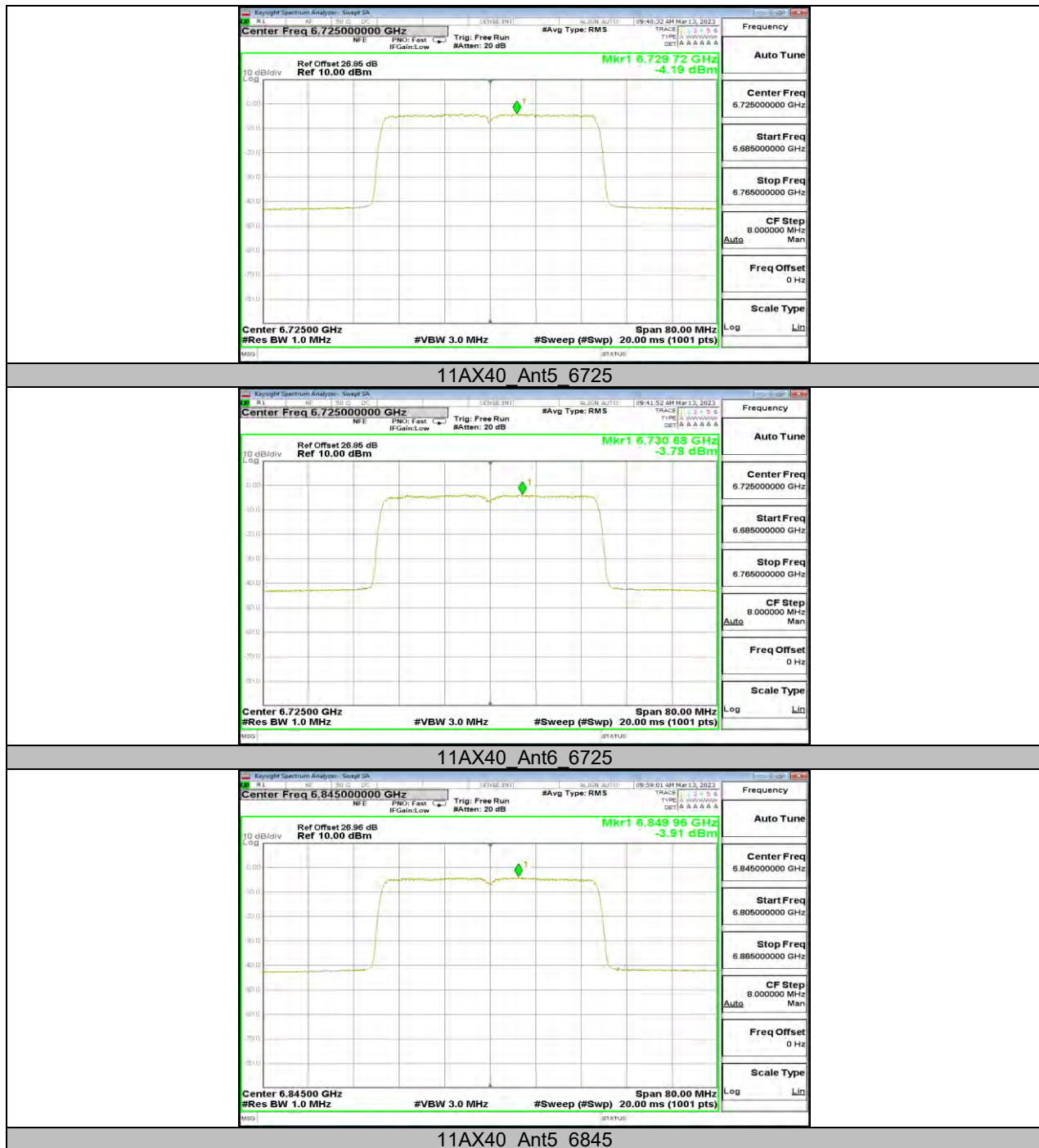


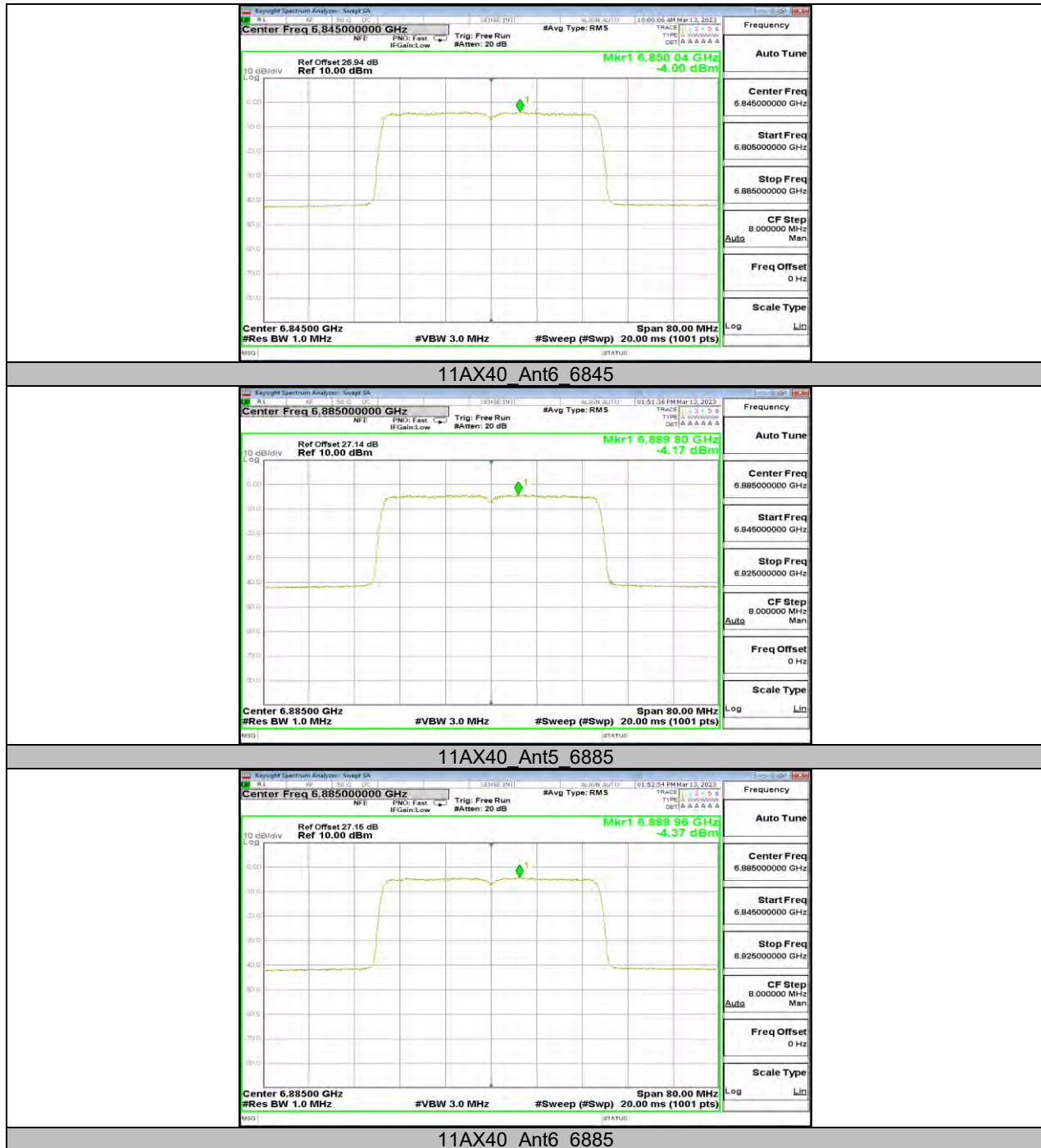


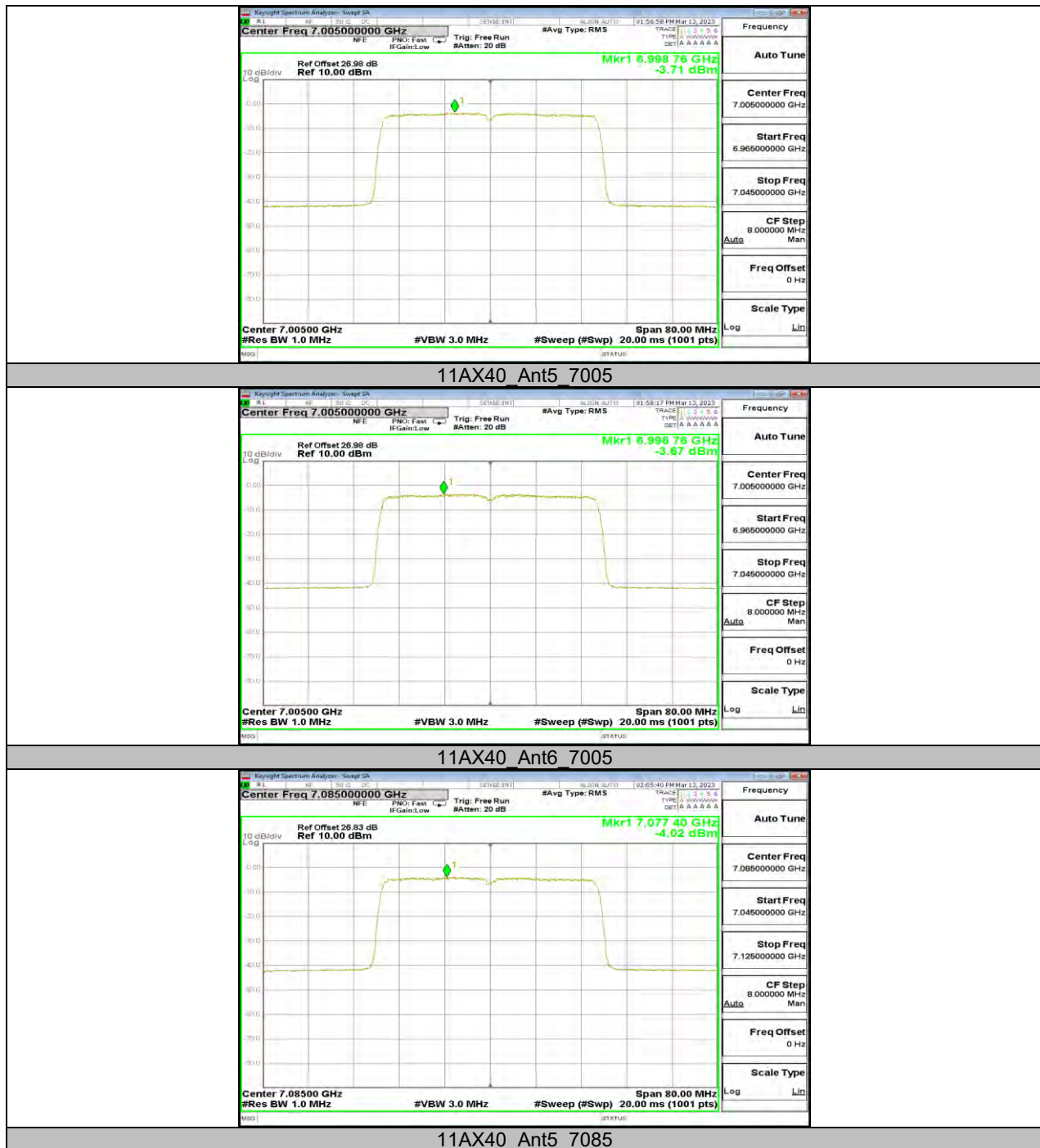


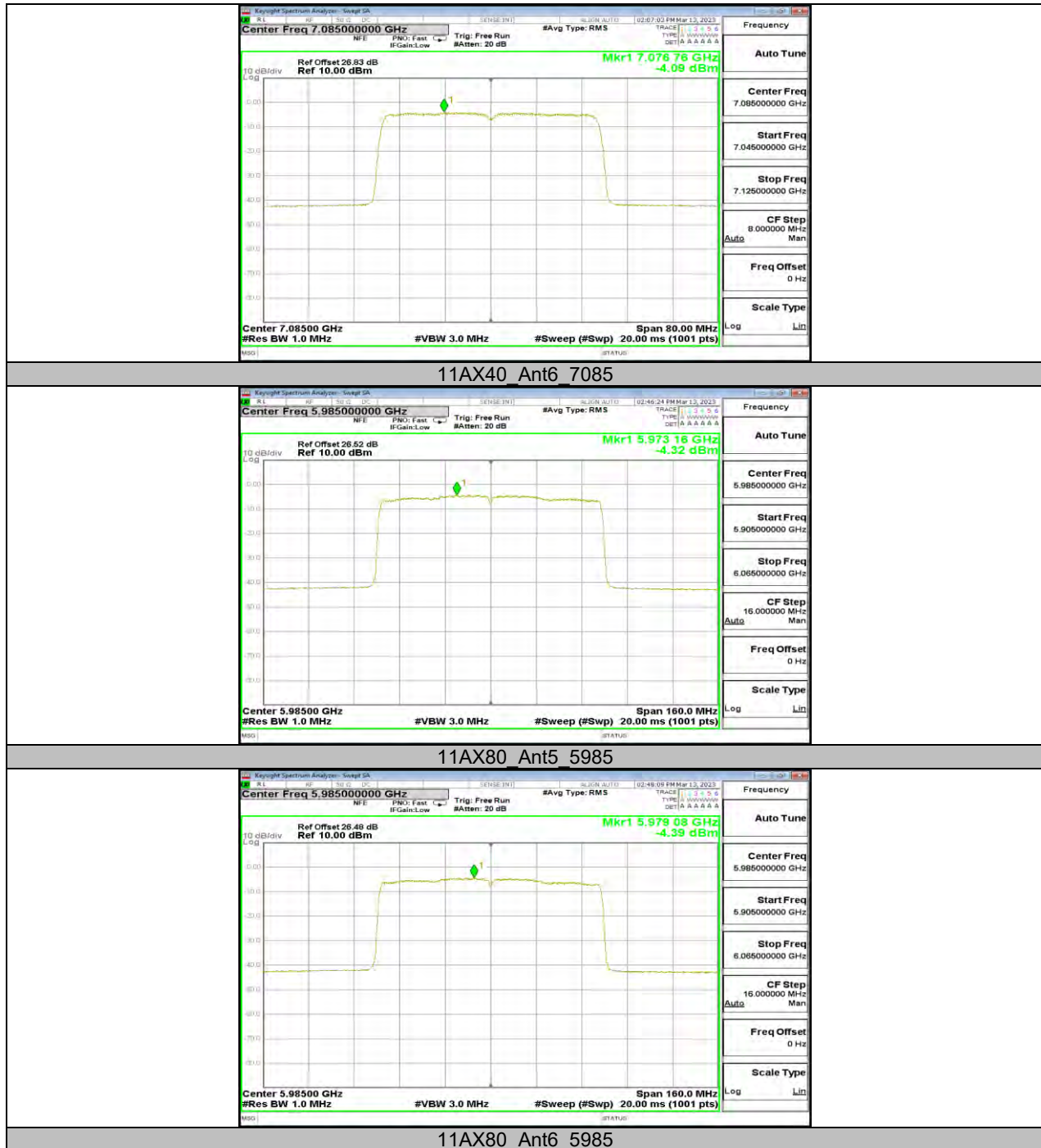


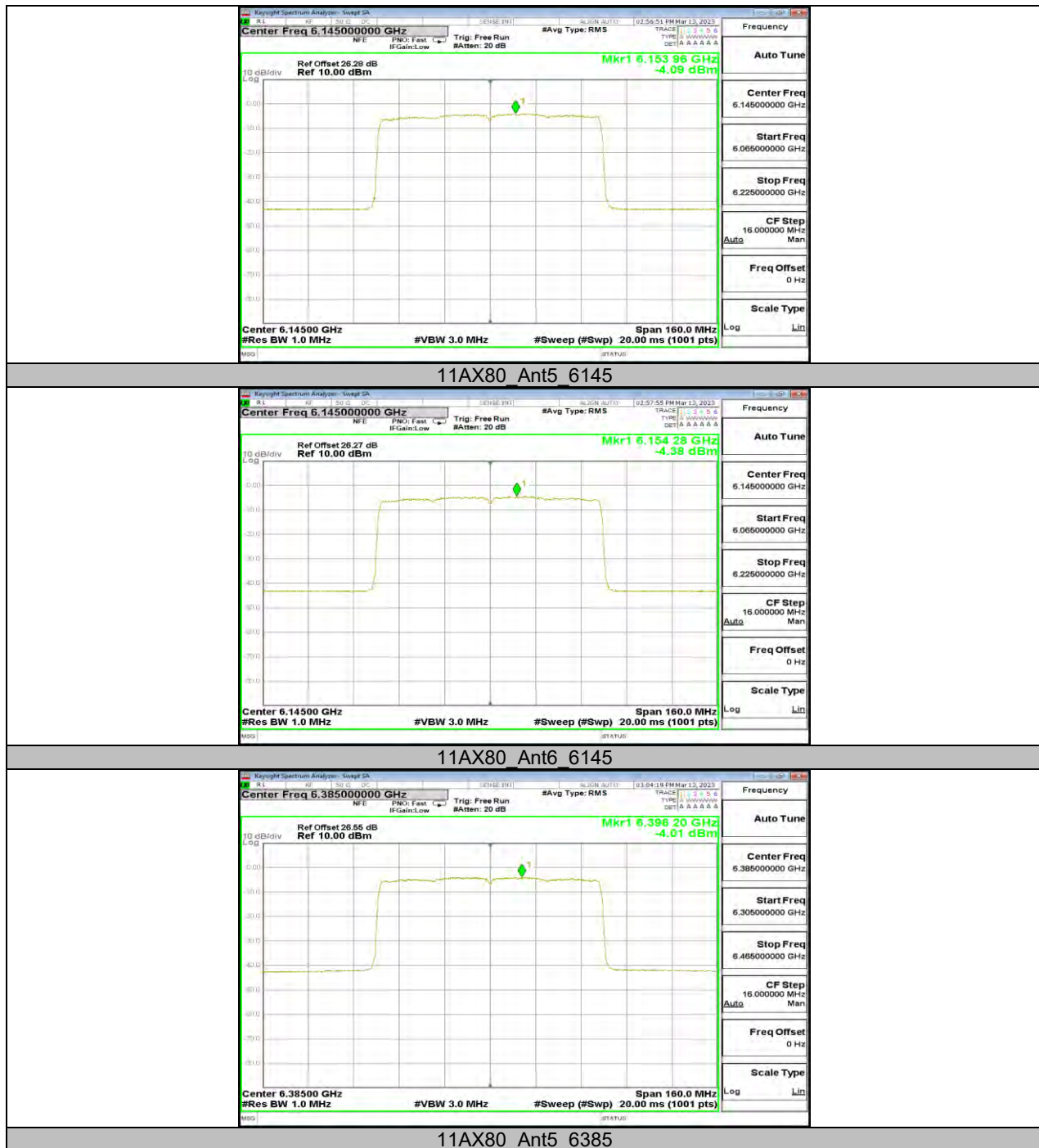


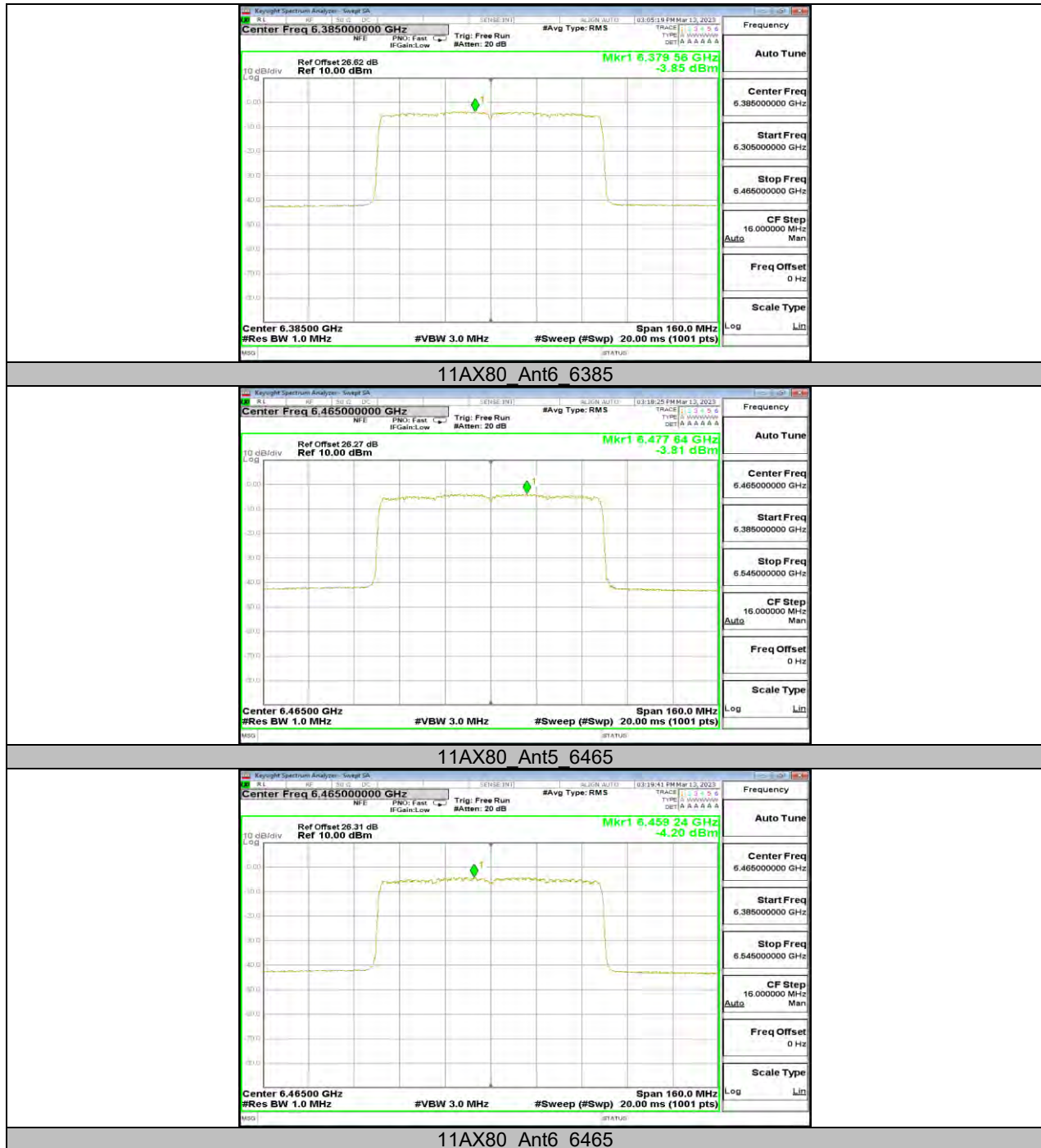




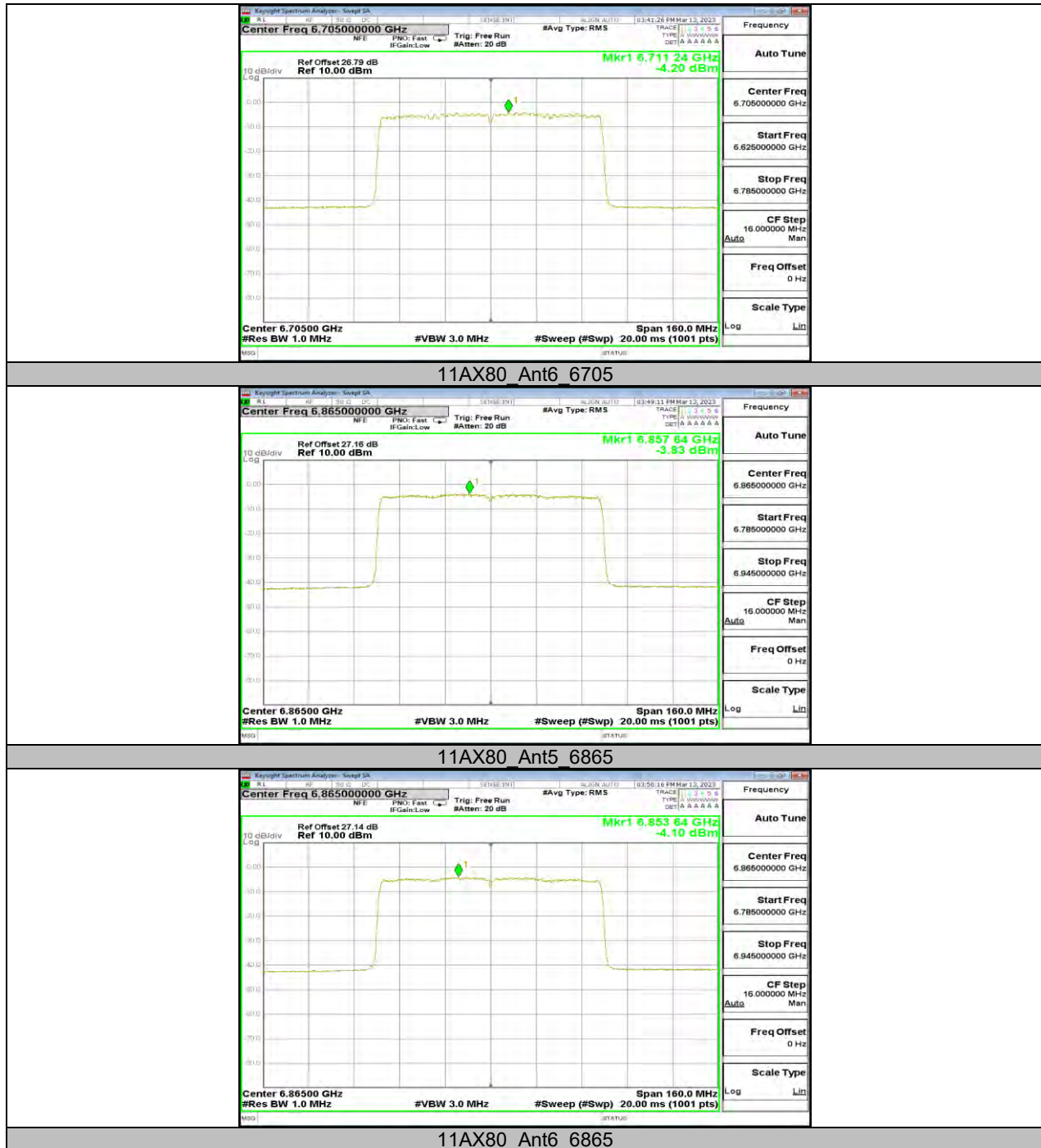


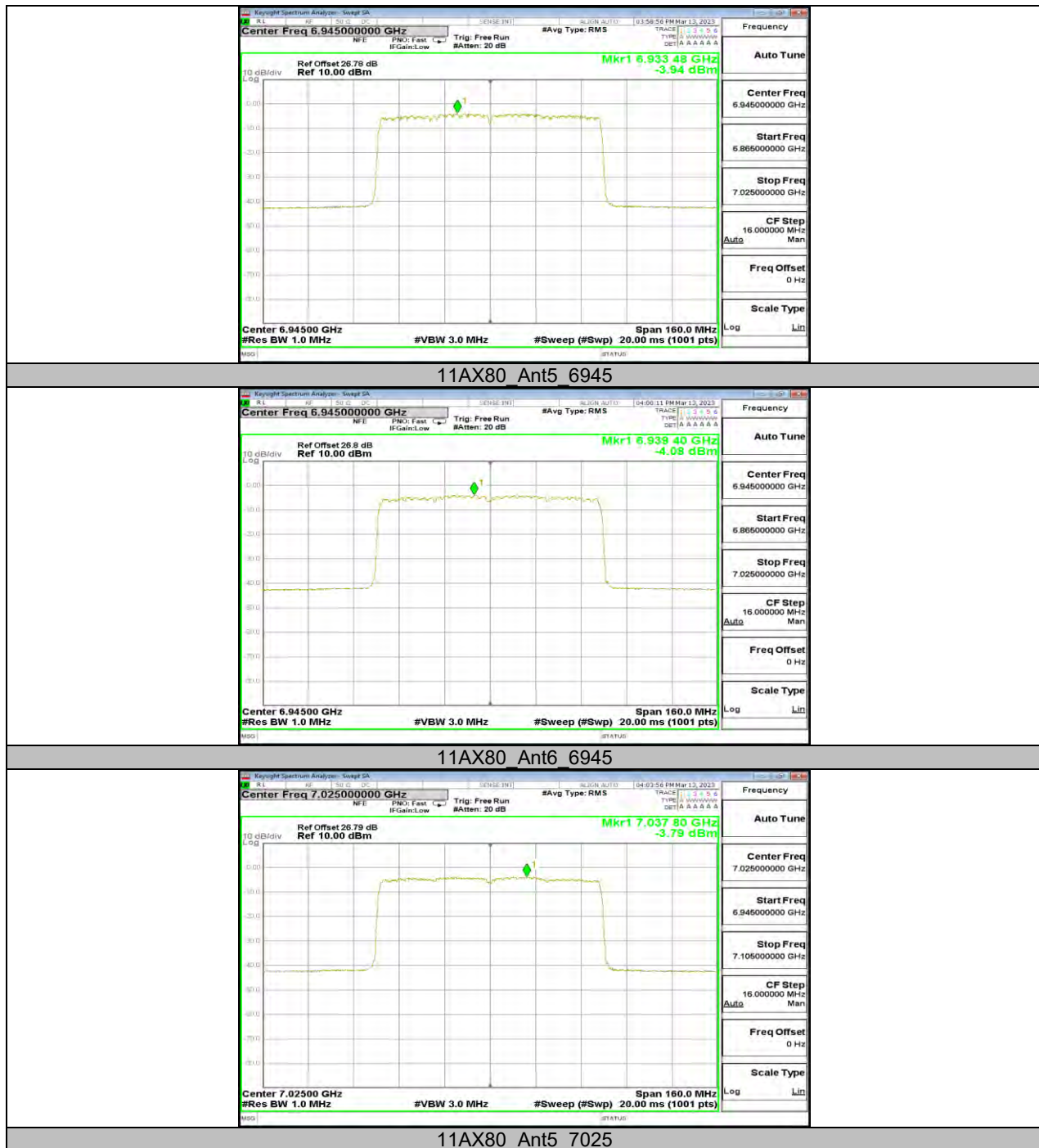










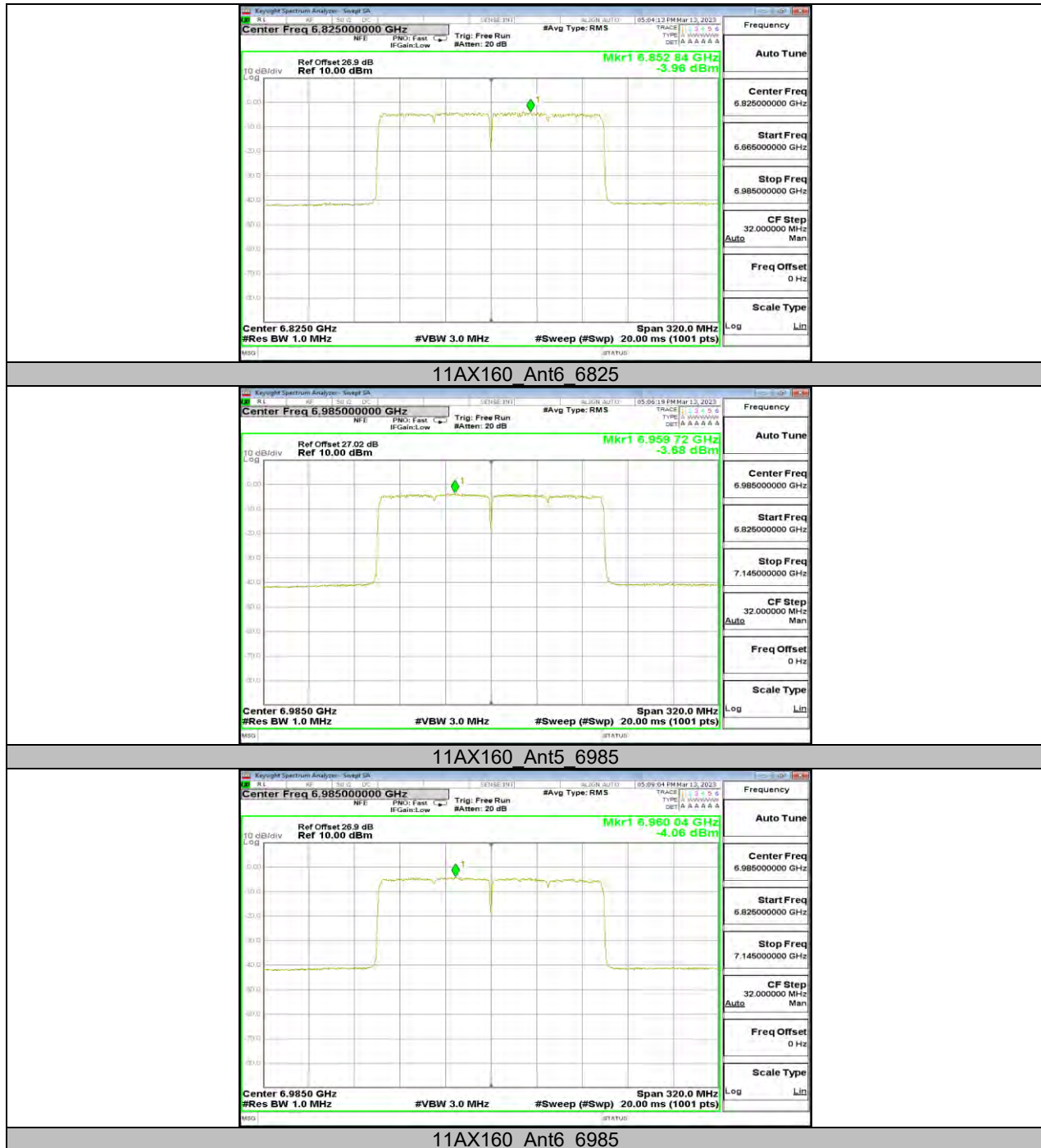












Note: All the modes had been tested, but only the worst data was recorded in the report.

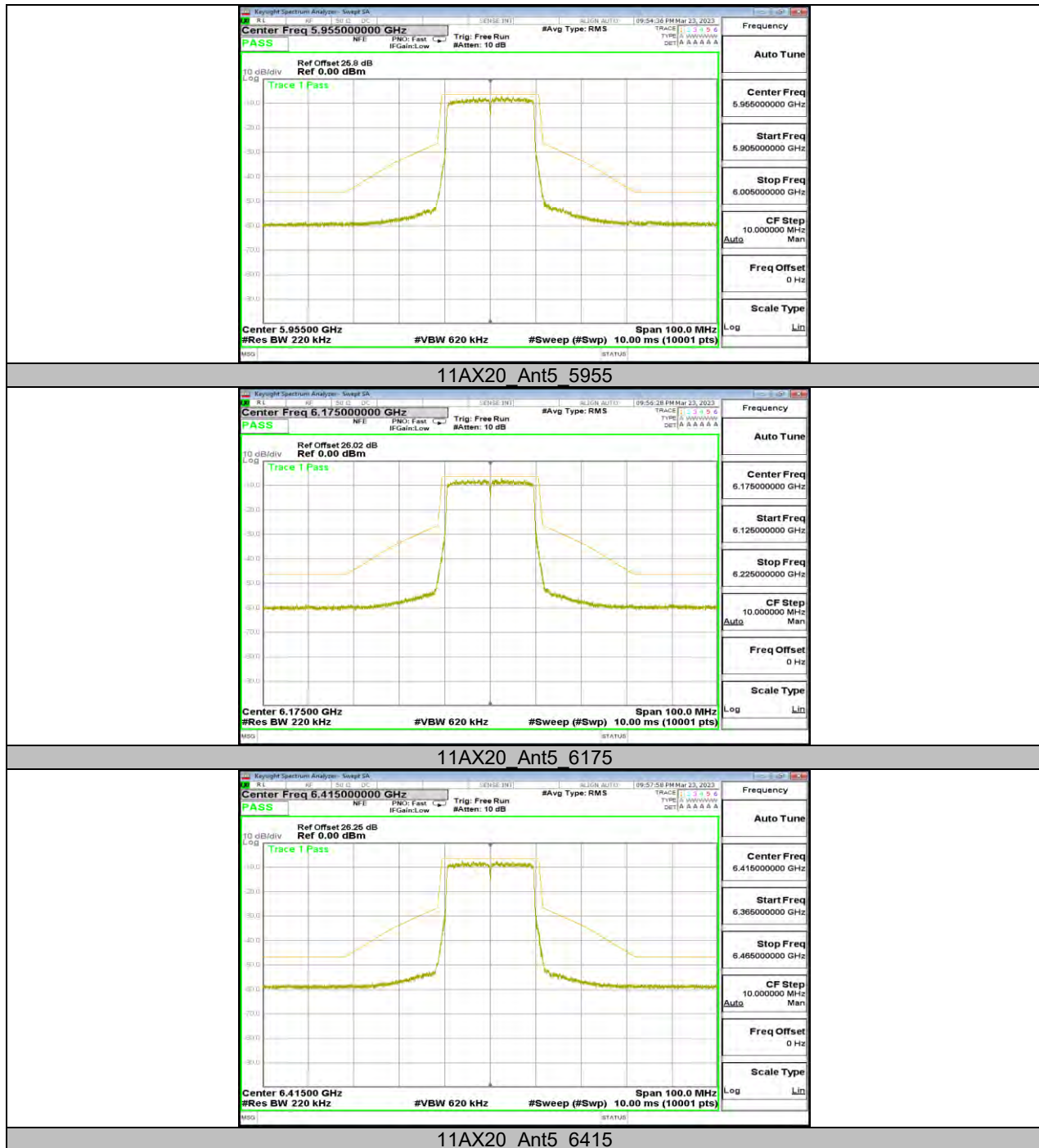
11.6. APPENDIX F: INBAND EMISSIONS

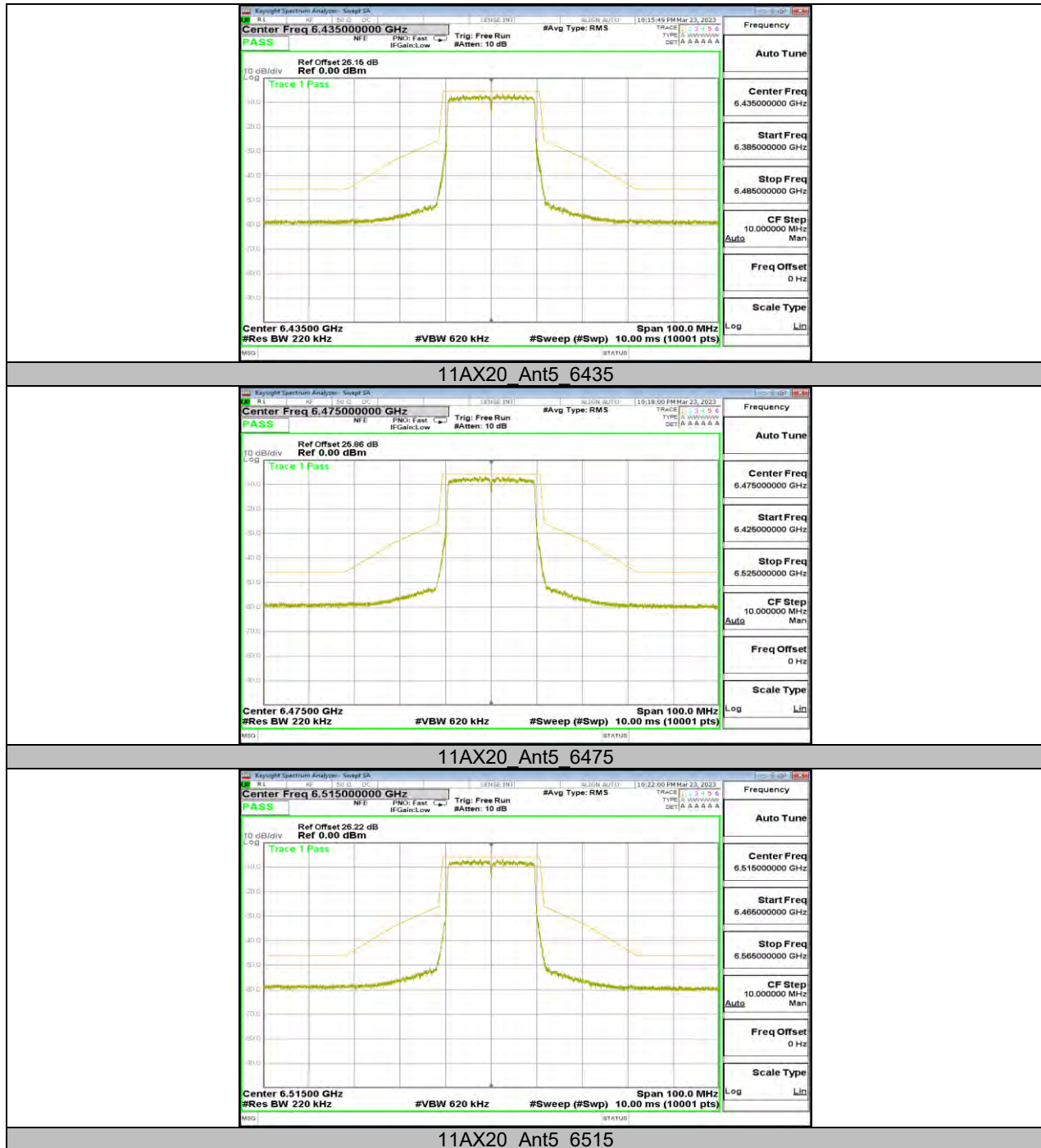
11.6.1. Test Result

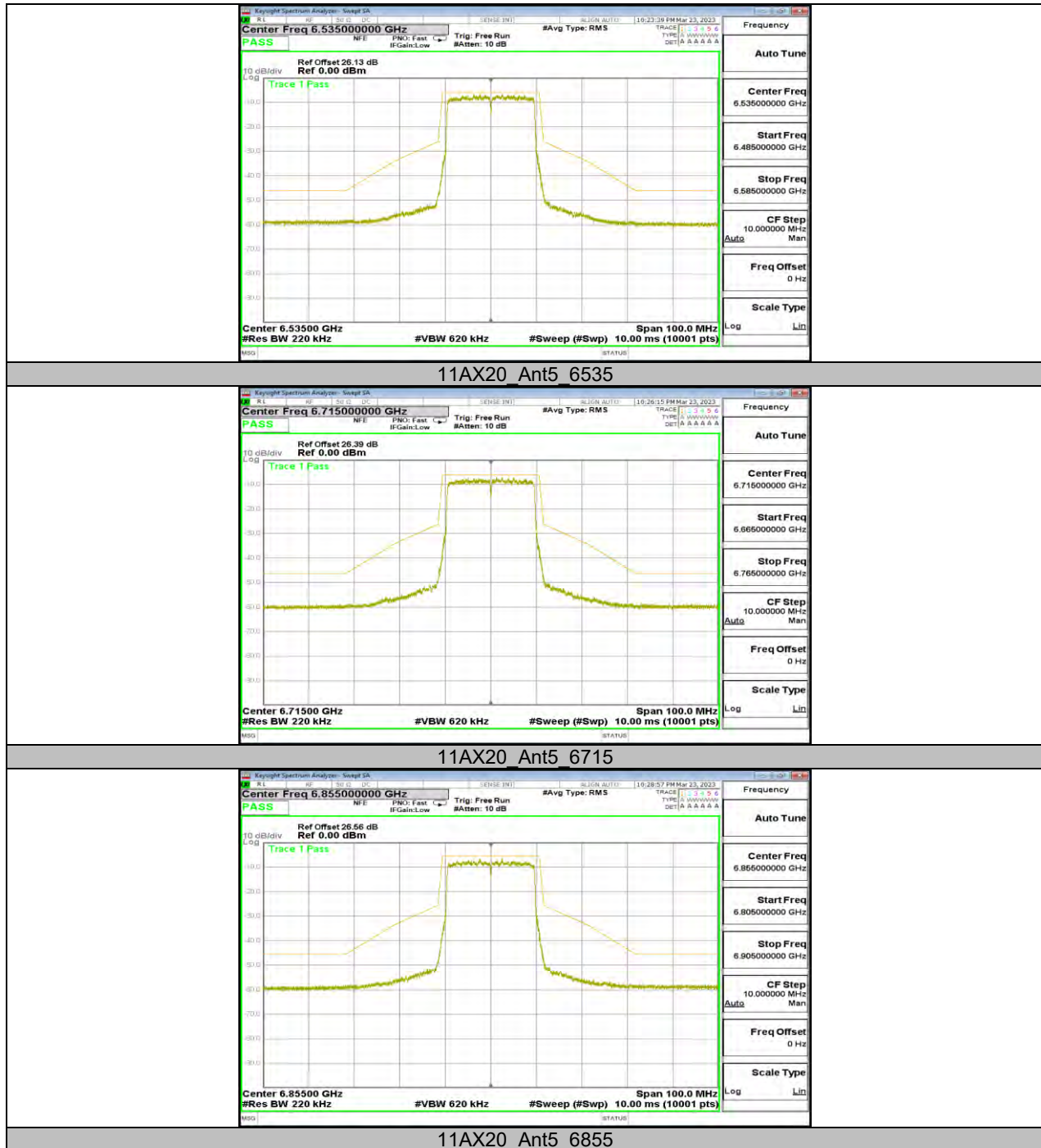
Test Mode	Antenna	Frequency[MHz]	Result	Limit	Verdict
11AX20	Ant5	5955	See test graph	See test graph	PASS
		6175	See test graph	See test graph	PASS
		6415	See test graph	See test graph	PASS
		6435	See test graph	See test graph	PASS
		6475	See test graph	See test graph	PASS
		6515	See test graph	See test graph	PASS
		6535	See test graph	See test graph	PASS
		6715	See test graph	See test graph	PASS
		6855	See test graph	See test graph	PASS
		6875	See test graph	See test graph	PASS
		7015	See test graph	See test graph	PASS
11AX40	Ant5	7115	See test graph	See test graph	PASS
		5965	See test graph	See test graph	PASS
		6125	See test graph	See test graph	PASS
		6405	See test graph	See test graph	PASS
		6445	See test graph	See test graph	PASS
		6485	See test graph	See test graph	PASS
		6525	See test graph	See test graph	PASS
		6725	See test graph	See test graph	PASS
		6845	See test graph	See test graph	PASS
		6885	See test graph	See test graph	PASS
		7005	See test graph	See test graph	PASS
11AX80	Ant5	7085	See test graph	See test graph	PASS
		5985	See test graph	See test graph	PASS
		6145	See test graph	See test graph	PASS
		6385	See test graph	See test graph	PASS
		6465	See test graph	See test graph	PASS
		6545	See test graph	See test graph	PASS
		6705	See test graph	See test graph	PASS
		6865	See test graph	See test graph	PASS
		6945	See test graph	See test graph	PASS
		7025	See test graph	See test graph	PASS
11AX160	Ant5	6025	See test graph	See test graph	PASS
		6185	See test graph	See test graph	PASS
		6345	See test graph	See test graph	PASS
		6505	See test graph	See test graph	PASS
		6665	See test graph	See test graph	PASS
		6825	See test graph	See test graph	PASS
		6985	See test graph	See test graph	PASS

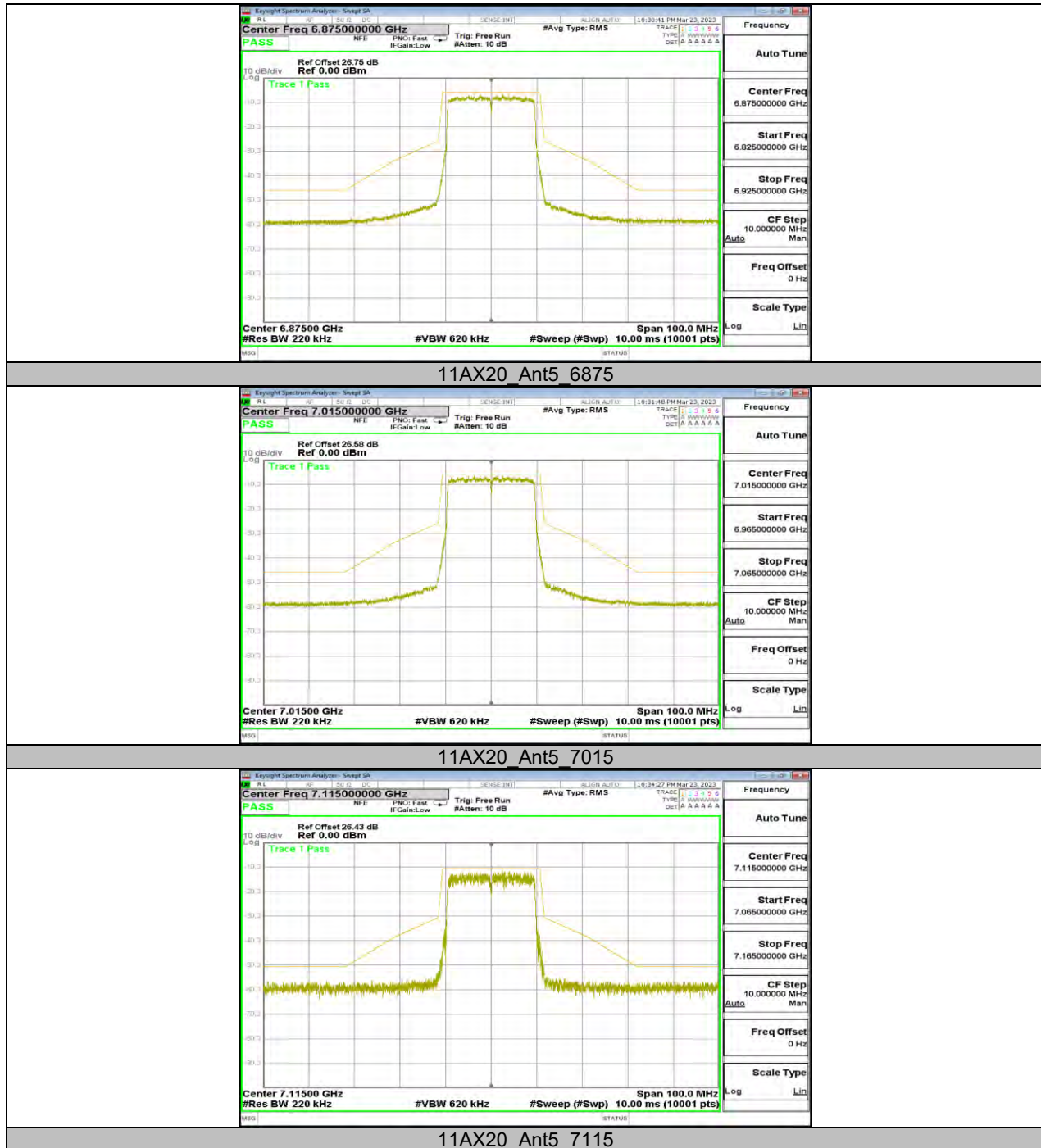
Note: All the modes had been tested, but only the worst data was recorded in the report.

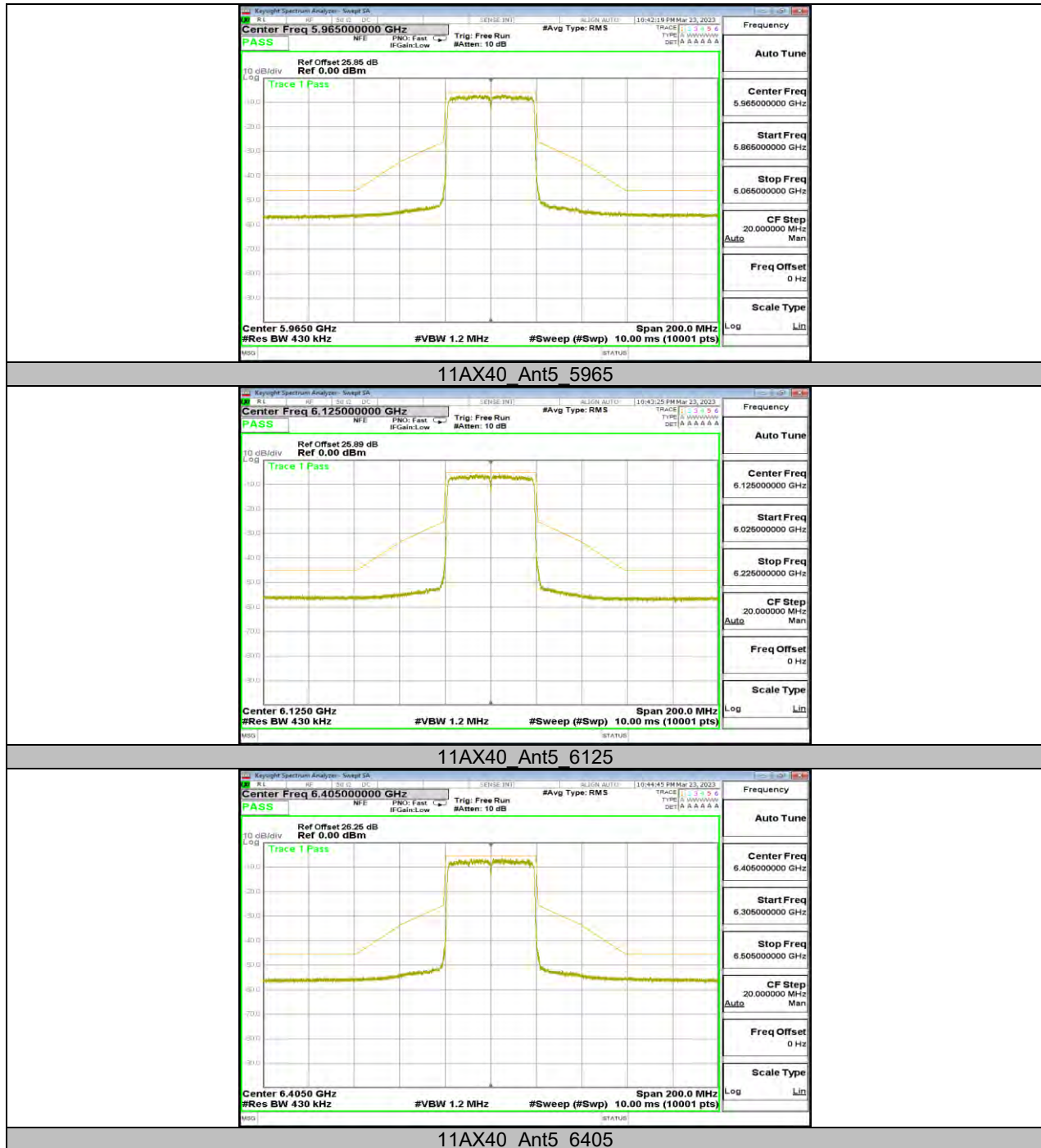
11.6.2. Test Graphs

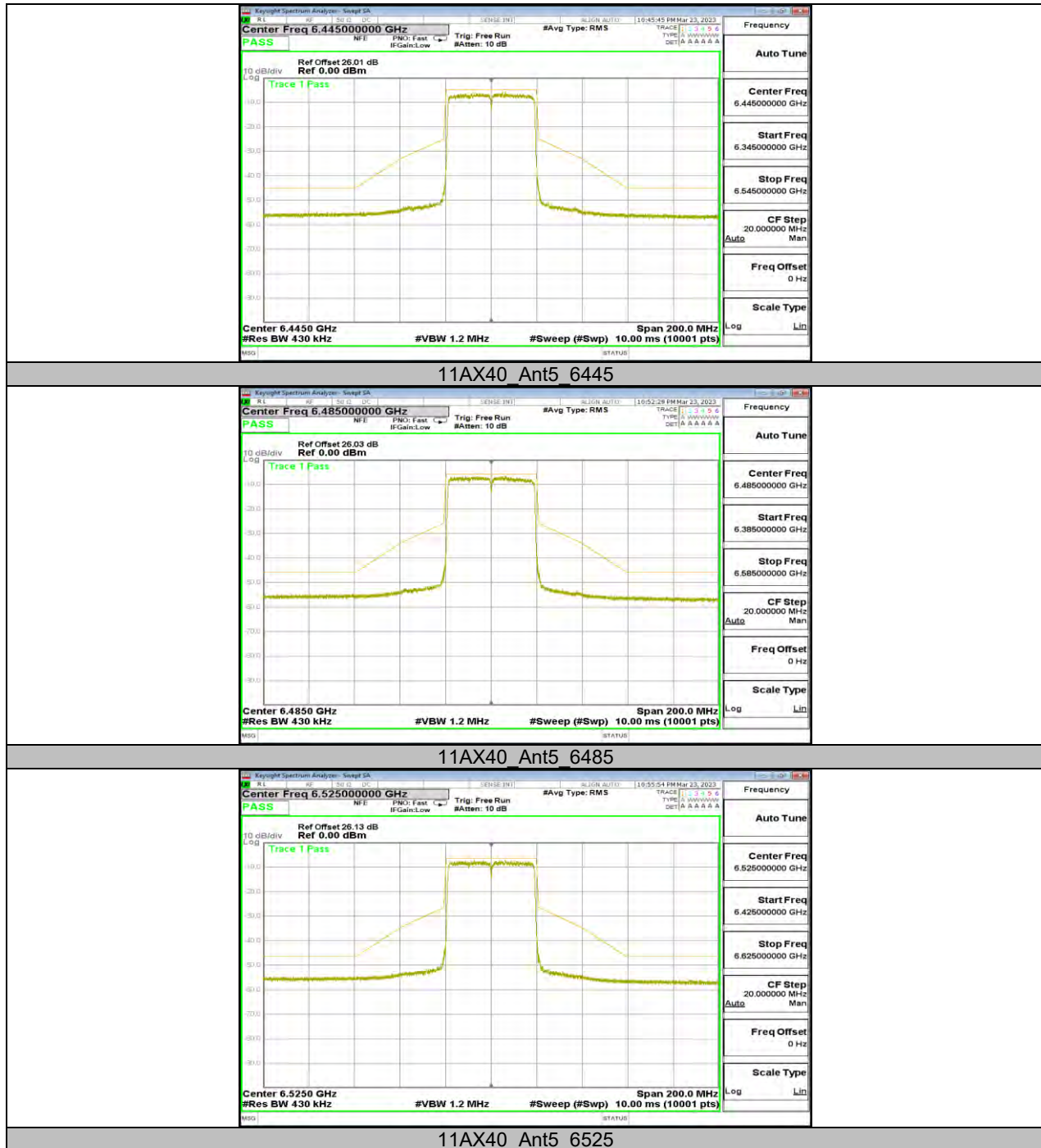


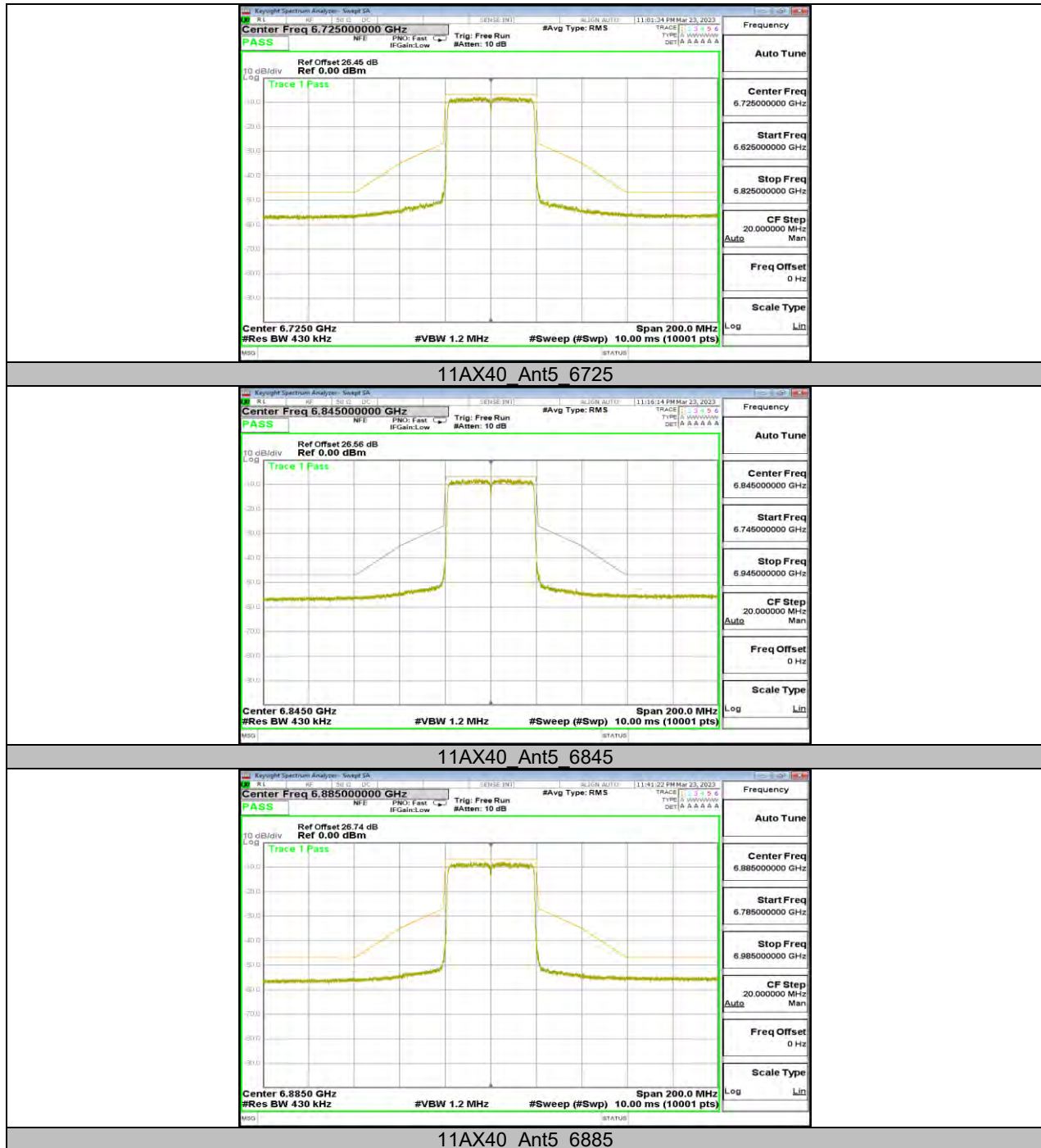


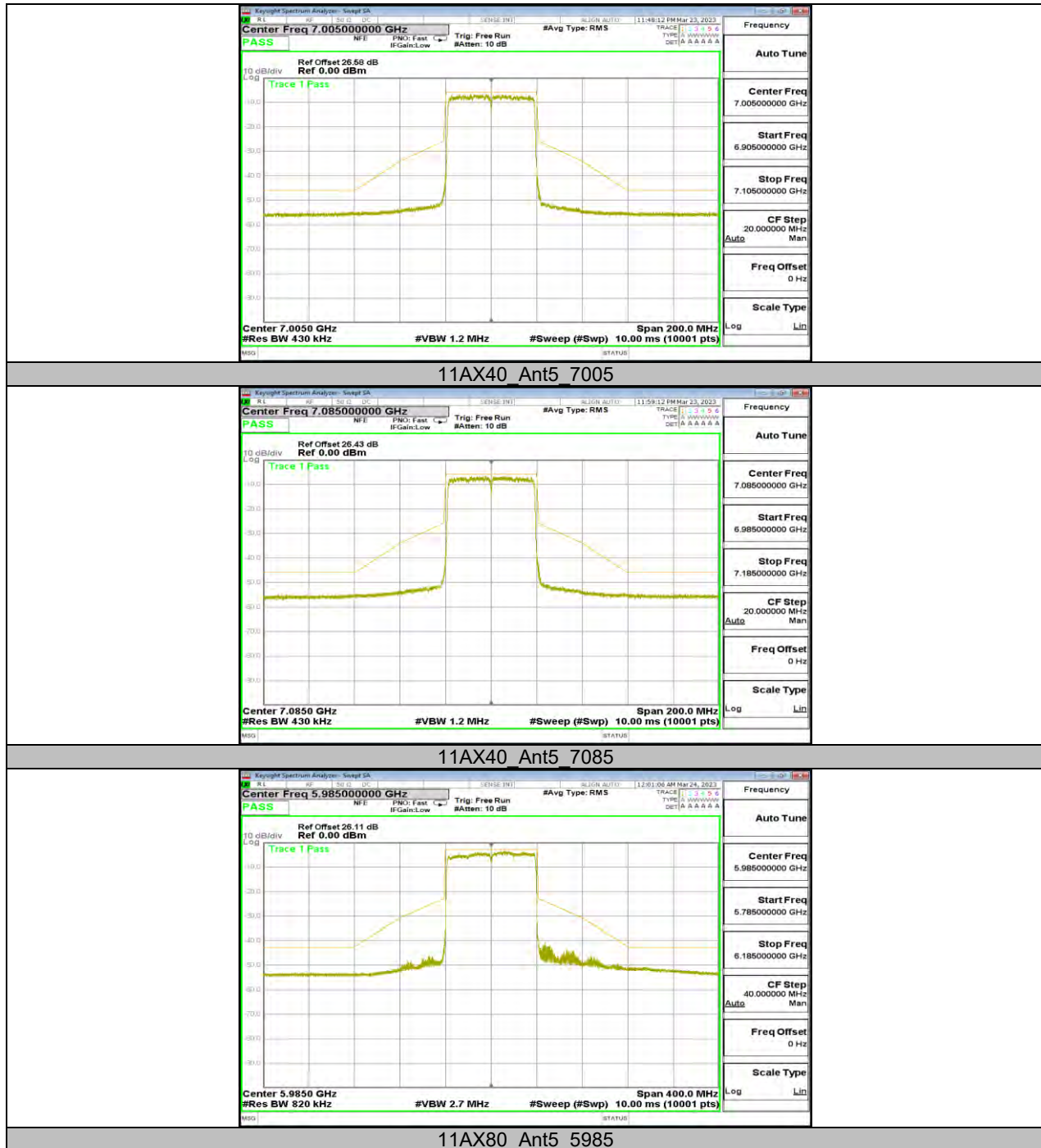


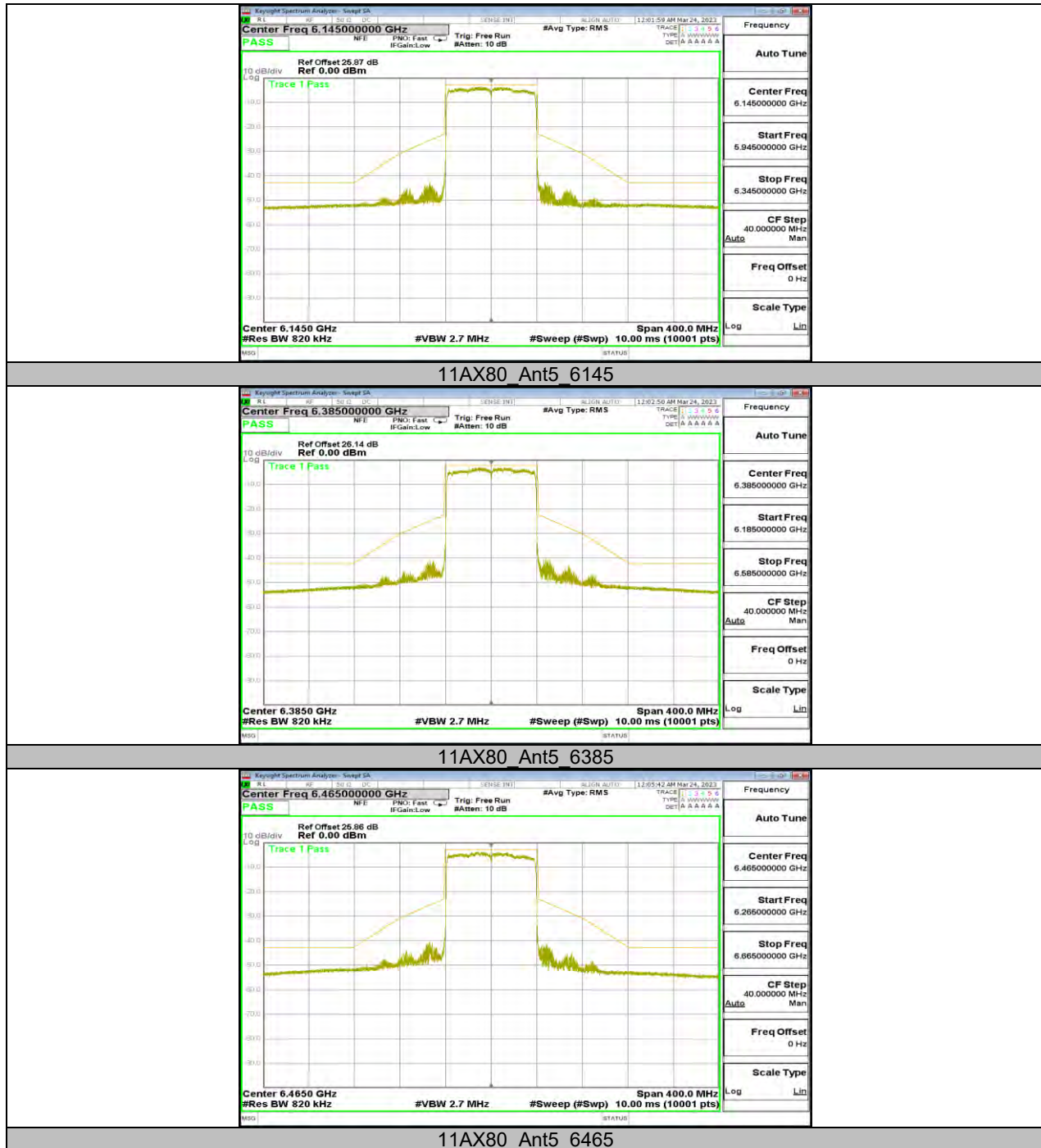


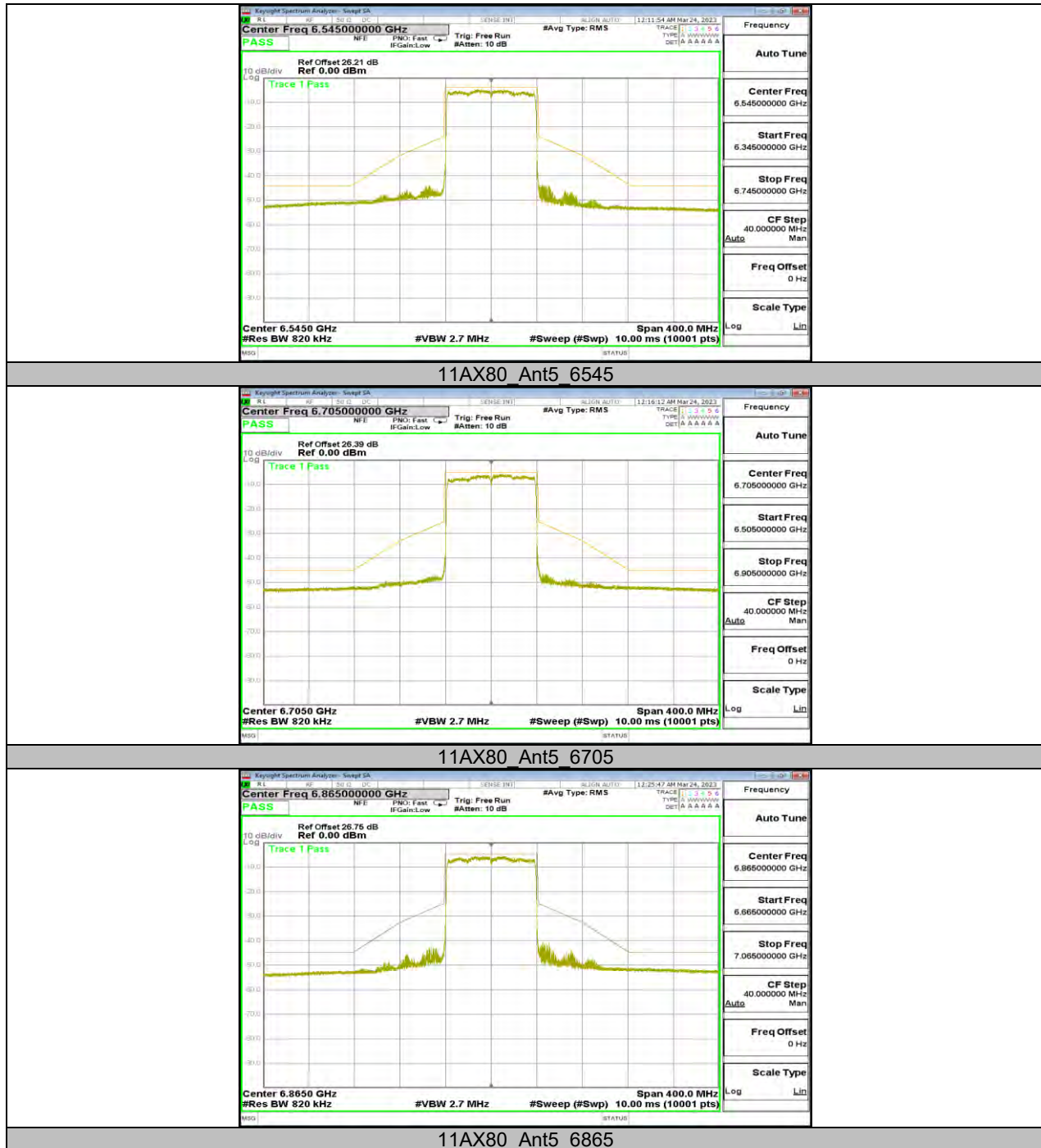


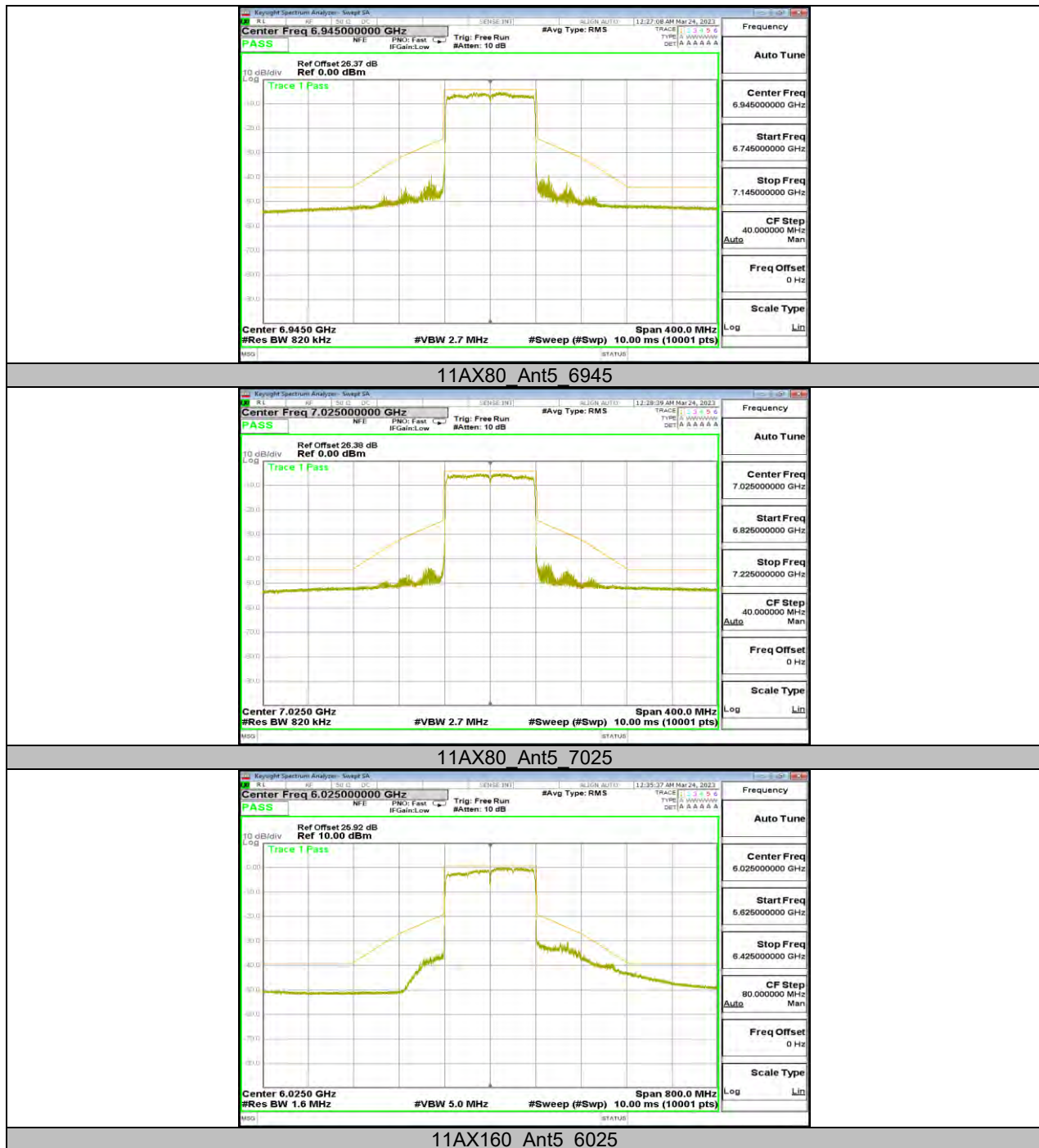
















Note: All the modes had been tested, but only the worst data was recorded in the report.

11.7. APPENDIX G: CONTENTION BASED PROTOCOL

11.7.1. Test Result

Test Mode	Antenna	EUT Frequency	AWGN Frequency	Injected AWGN Power	Minimum Antenna Gain	Path Loss	Adjusted Power Result	Limit	UT Tx Status
		[MHz]	[MHz]	[dBm]	[dBi]	[dB]	[dBm]	[dBm]	(Note1)
11AX20MIMO	Ant1	5955	5955	-69.44	2.5	2	-70.00	-59.5	ON
				-61.67	2.5	2	-62.11	-59.5	Minimal
				-60.47	2.5	2	-59.79	-59.5	OFF
		6435	6435	-69.76	2.5	2	-70.00	-59.5	ON
				-61.13	2.5	2	-61.88	-59.5	Minimal
				-60.22	2.5	2	-59.74	-59.5	OFF
		6535	6535	-69.65	2.5	2	-70.00	-59.5	ON
				-61.72	2.5	2	-61.98	-59.5	Minimal
				-60.33	2.5	2	-59.93	-59.5	OFF
		7015	7015	-69.12	2.5	2	-70.00	-59.5	ON
				-61.87	2.5	2	-62.12	-59.5	Minimal
				-60.11	2.5	2	-59.72	-59.5	OFF
11AX160MIMO	Ant1	6185	6110	-69.23	2.5	2	-70.00	-59.5	ON
				-61.24	2.5	2	-62.01	-59.5	Minimal
				-60.66	2.5	2	-59.73	-59.5	OFF
			6185	-69.76	2.5	2	-70.00	-59.5	ON
				-61.54	2.5	2	-61.89	-59.5	Minimal
				-60.22	2.5	2	-59.86	-59.5	OFF
			6260	-69.97	2.5	2	-70.00	-59.5	ON
				-61.57	2.5	2	-62.12	-59.5	Minimal
				-60.22	2.5	2	-59.76	-59.5	OFF
		6505	6430	-69.12	2.5	2	-70.00	-59.5	ON
				-61.78	2.5	2	-62.11	-59.5	Minimal
				-60.02	2.5	2	-59.74	-59.5	OFF
			6505	-69.22	2.5	2	-70.00	-59.5	ON
				-61.65	2.5	2	-62.13	-59.5	Minimal
				-60.36	2.5	2	-59.80	-59.5	OFF
			6580	-69.76	2.5	2	-70.00	-59.5	ON
				-61.33	2.5	2	-62.15	-59.5	Minimal
				-60.19	2.5	2	-59.86	-59.5	OFF
		6665	6590	-69.22	2.5	2	-70.00	-59.5	ON
				-61.46	2.5	2	-61.88	-59.5	Minimal
				-60.23	2.5	2	-59.80	-59.5	OFF
			6665	-69.12	2.5	2	-70.00	-59.5	ON
				-61.44	2.5	2	-62.03	-59.5	Minimal
				-60.57	2.5	2	-59.98	-59.5	OFF

			6740	-69.22	2.5	2	-70.00	-59.5	ON
				-61.12	2.5	2	-62.11	-59.5	Minimal
				-60.22	2.5	2	-59.77	-59.5	OFF
		6985	6910	-69.76	2.5	2	-70.00	-59.5	ON
				-61.57	2.5	2	-62.12	-59.5	Minimal
				-60.23	2.5	2	-59.94	-59.5	OFF
			6985	-69.98	2.5	2	-70.00	-59.5	ON
				-61.68	2.5	2	-62.18	-59.5	Minimal
				-60.77	2.5	2	-59.80	-59.5	OFF
			7060	-69.55	2.5	2	-70.00	-59.5	ON
				-61.87	2.5	2	-62.05	-59.5	Minimal
				-60.13	2.5	2	-59.70	-59.5	OFF

Note: The -62 dBm threshold is referenced to a 0 dBi antenna gain according to KDB987594 D02 U-NII 6 GHz EMC Measurement, as the antenna gain of the EUT is the 2.5 dBi (Please refer to page 16 for the detail about antenna), so threshold shall be -59.5 dBm, the power level -59.5 dBm was used for all tests.

Test Mode	Antenna	Frequency [MHz]	Interference Frequency [MHz]		Test Number [n]	Number Detected [n]	Result [%]	Limit [%]	Verdict
11AX20MIMO	Ant1	5955	Center	5955	10	10	100	90	PASS
		6435	Center	6435	10	10	100	90	PASS
		6535	Center	6535	10	10	100	90	PASS
		7015	Center	7015	10	10	100	90	PASS
11AX160MIMO	Ant1	6185	Low	6110	10	10	100	90	PASS
			Center	6185	10	10	100	90	PASS
			High	6260	10	10	100	90	PASS
		6505	Low	6430	10	10	100	90	PASS
			Center	6505	10	10	100	90	PASS
			High	6580	10	10	100	90	PASS
		6665	Low	6590	10	10	100	90	PASS
			Center	6665	10	10	100	90	PASS
			High	6740	10	10	100	90	PASS
		6985	Low	6910	10	10	100	90	PASS
			Center	6985	10	10	100	90	PASS
			High	7060	10	10	100	90	PASS

Test Mode	Antenna	Frequency [MHz]	Interference Frequency [MHz]		Test Time	Is Detected	Verdict
11AX20MIMO	Ant1	5955	Center	5955	1	Yes	PASS
			Center	5955	2	Yes	PASS
			Center	5955	3	Yes	PASS
			Center	5955	4	Yes	PASS
			Center	5955	5	Yes	PASS
			Center	5955	6	Yes	PASS
			Center	5955	7	Yes	PASS
			Center	5955	8	Yes	PASS
			Center	5955	9	Yes	PASS
			Center	5955	10	Yes	PASS
		6435	Center	6435	1	Yes	PASS
			Center	6435	2	Yes	PASS
			Center	6435	3	Yes	PASS
			Center	6435	4	Yes	PASS
			Center	6435	5	Yes	PASS
			Center	6435	6	Yes	PASS
			Center	6435	7	Yes	PASS
			Center	6435	8	Yes	PASS
			Center	6435	9	Yes	PASS
			Center	6435	10	Yes	PASS
		6535	Center	6535	1	Yes	PASS
			Center	6535	2	Yes	PASS
			Center	6535	3	Yes	PASS
			Center	6535	4	Yes	PASS
			Center	6535	5	Yes	PASS
			Center	6535	6	Yes	PASS
			Center	6535	7	Yes	PASS
			Center	6535	8	Yes	PASS
			Center	6535	9	Yes	PASS
			Center	6535	10	Yes	PASS
		7015	Center	7015	1	Yes	PASS
			Center	7015	2	Yes	PASS
			Center	7015	3	Yes	PASS
			Center	7015	4	Yes	PASS
			Center	7015	5	Yes	PASS
			Center	7015	6	Yes	PASS
			Center	7015	7	Yes	PASS
			Center	7015	8	Yes	PASS
			Center	7015	9	Yes	PASS
			Center	7015	10	Yes	PASS

Test Mode	Antenna	Frequency [MHz]	Interference Frequency [MHz]	Test Time	Is Detected	Verdict
11AX160MIMO	Ant1	6185	Low 6110	1	Yes	PASS
			Low 6110	2	Yes	PASS
			Low 6110	3	Yes	PASS
			Low 6110	4	Yes	PASS
			Low 6110	5	Yes	PASS
			Low 6110	6	Yes	PASS
			Low 6110	7	Yes	PASS
			Low 6110	8	Yes	PASS
			Low 6110	9	Yes	PASS
			Low 6110	10	Yes	PASS
			Center 6185	1	Yes	PASS
			Center 6185	2	Yes	PASS
			Center 6185	3	Yes	PASS
			Center 6185	4	Yes	PASS
			Center 6185	5	Yes	PASS
			Center 6185	6	Yes	PASS
			Center 6185	7	Yes	PASS
			Center 6185	8	Yes	PASS
			Center 6185	9	Yes	PASS
			Center 6185	10	Yes	PASS
			High 6260	1	Yes	PASS
			High 6260	2	Yes	PASS
			High 6260	3	Yes	PASS
			High 6260	4	Yes	PASS
			High 6260	5	Yes	PASS
			High 6260	6	Yes	PASS
			High 6260	7	Yes	PASS
			High 6260	8	Yes	PASS
			High 6260	9	Yes	PASS
			High 6260	10	Yes	PASS
		6505	Low 6430	1	Yes	PASS
			Low 6430	2	Yes	PASS
			Low 6430	3	Yes	PASS
			Low 6430	4	Yes	PASS
			Low 6430	5	Yes	PASS
			Low 6430	6	Yes	PASS
			Low 6430	7	Yes	PASS
			Low 6430	8	Yes	PASS
			Low 6430	9	Yes	PASS
			Low 6430	10	Yes	PASS
			Center 6505	1	Yes	PASS
			Center 6505	2	Yes	PASS
			Center 6505	3	Yes	PASS
			Center 6505	4	Yes	PASS
			Center 6505	5	Yes	PASS
			Center 6505	6	Yes	PASS
			Center 6505	7	Yes	PASS
			Center 6505	8	Yes	PASS
			Center 6505	9	Yes	PASS
			Center 6505	10	Yes	PASS
			High 6580	1	Yes	PASS
			High 6580	2	Yes	PASS
			High 6580	3	Yes	PASS
			High 6580	4	Yes	PASS
			High 6580	5	Yes	PASS
			High 6580	6	Yes	PASS
			High 6580	7	Yes	PASS
			High 6580	8	Yes	PASS
			High 6580	9	Yes	PASS

		6665	High	6580	10	Yes	PASS
			Low	6590	1	Yes	PASS
			Low	6590	2	Yes	PASS
			Low	6590	3	Yes	PASS
			Low	6590	4	Yes	PASS
			Low	6590	5	Yes	PASS
			Low	6590	6	Yes	PASS
			Low	6590	7	Yes	PASS
			Low	6590	8	Yes	PASS
			Low	6590	9	Yes	PASS
			Low	6590	10	Yes	PASS
			Center	6665	1	Yes	PASS
			Center	6665	2	Yes	PASS
			Center	6665	3	Yes	PASS
			Center	6665	4	Yes	PASS
			Center	6665	5	Yes	PASS
			Center	6665	6	Yes	PASS
			Center	6665	7	Yes	PASS
			Center	6665	8	Yes	PASS
			Center	6665	9	Yes	PASS
			Center	6665	10	Yes	PASS
		6985	High	6740	1	Yes	PASS
			High	6740	2	Yes	PASS
			High	6740	3	Yes	PASS
			High	6740	4	Yes	PASS
			High	6740	5	Yes	PASS
			High	6740	6	Yes	PASS
			High	6740	7	Yes	PASS
			High	6740	8	Yes	PASS
			High	6740	9	Yes	PASS
			High	6740	10	Yes	PASS
			Low	6910	1	Yes	PASS
			Low	6910	2	Yes	PASS
			Low	6910	3	Yes	PASS
			Low	6910	4	Yes	PASS
			Low	6910	5	Yes	PASS
			Low	6910	6	Yes	PASS
			Low	6910	7	Yes	PASS
			Low	6910	8	Yes	PASS
			Low	6910	9	Yes	PASS
			Low	6910	10	Yes	PASS
			Center	6985	1	Yes	PASS
			Center	6985	2	Yes	PASS
			Center	6985	3	Yes	PASS
			Center	6985	4	Yes	PASS
			Center	6985	5	Yes	PASS
			Center	6985	6	Yes	PASS
			Center	6985	7	Yes	PASS
			Center	6985	8	Yes	PASS
			Center	6985	9	Yes	PASS
			Center	6985	10	Yes	PASS
			High	7060	1	Yes	PASS
			High	7060	2	Yes	PASS
			High	7060	3	Yes	PASS
			High	7060	4	Yes	PASS
			High	7060	5	Yes	PASS
			High	7060	6	Yes	PASS
			High	7060	7	Yes	PASS
			High	7060	8	Yes	PASS
			High	7060	9	Yes	PASS
			High	7060	10	Yes	PASS

11.7.1. Test Graphs

