

RF Test Data for RLAN(5.2G) (Conducted Measurement)

Product Name: MONKi Table Order

Trade Mark: /

Test Model: MK-TO2

FCC ID: 2BKTM-MK-TO2

Environmental Conditions

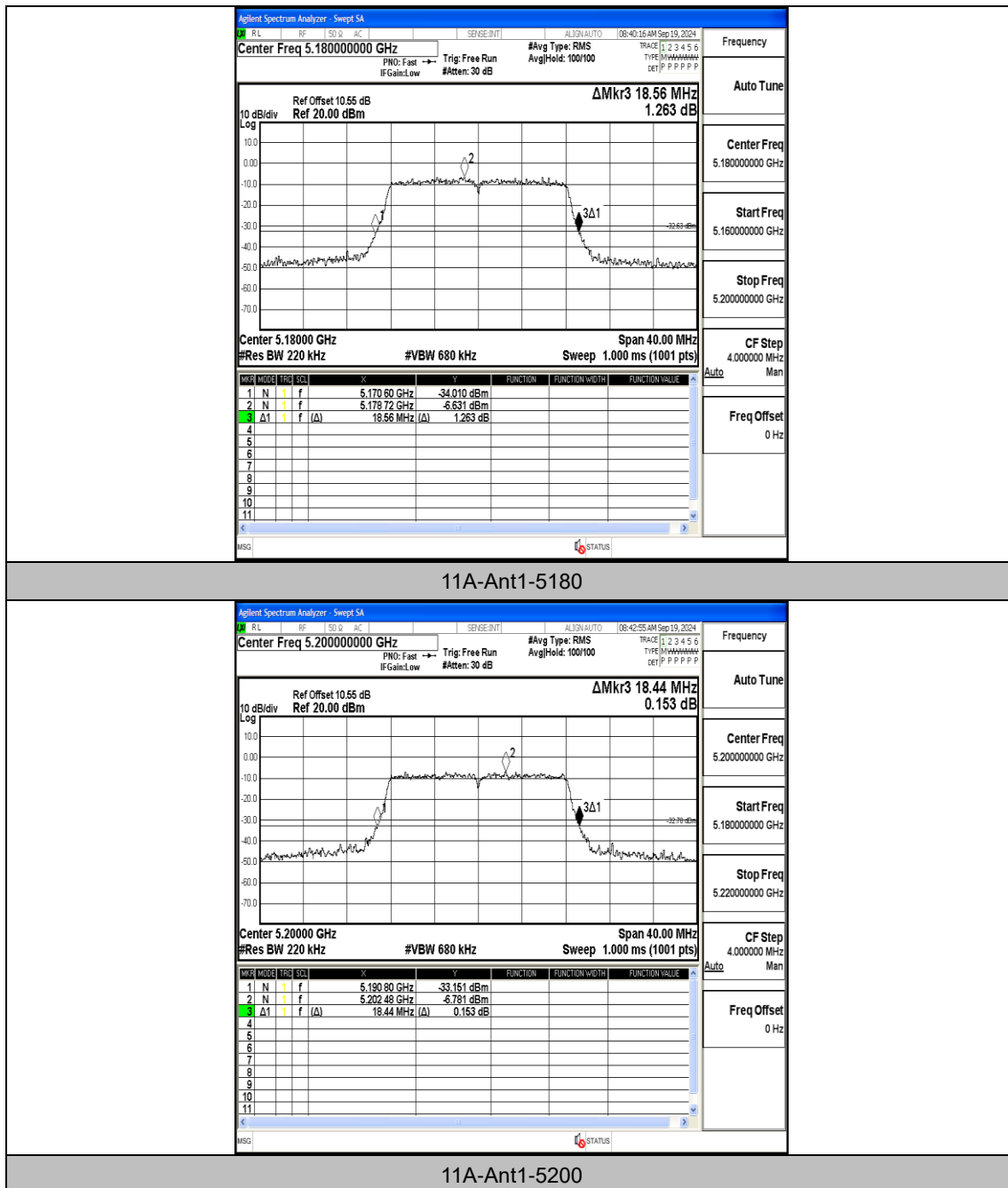
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

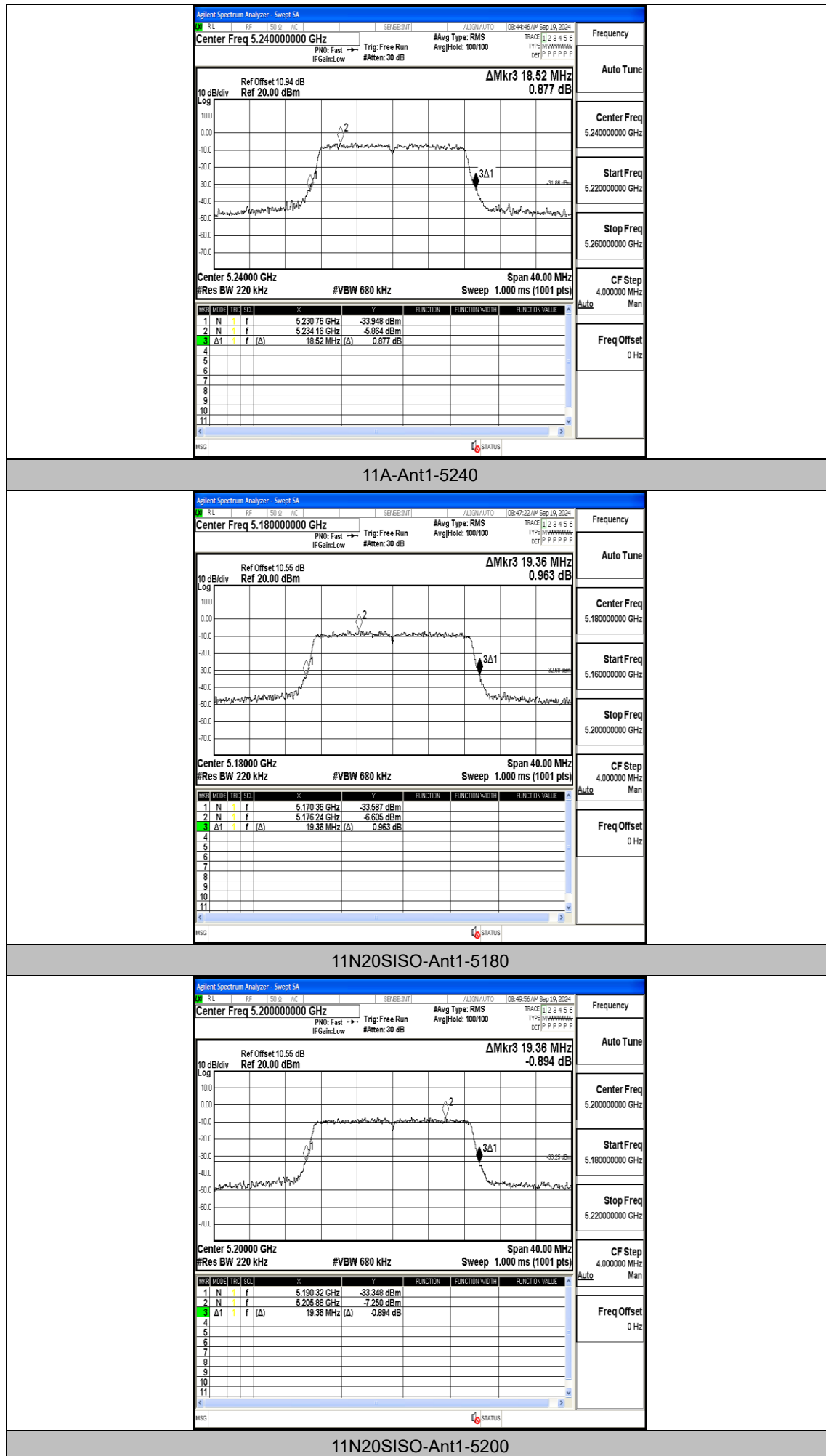
Appendix A1: Emission Bandwidth

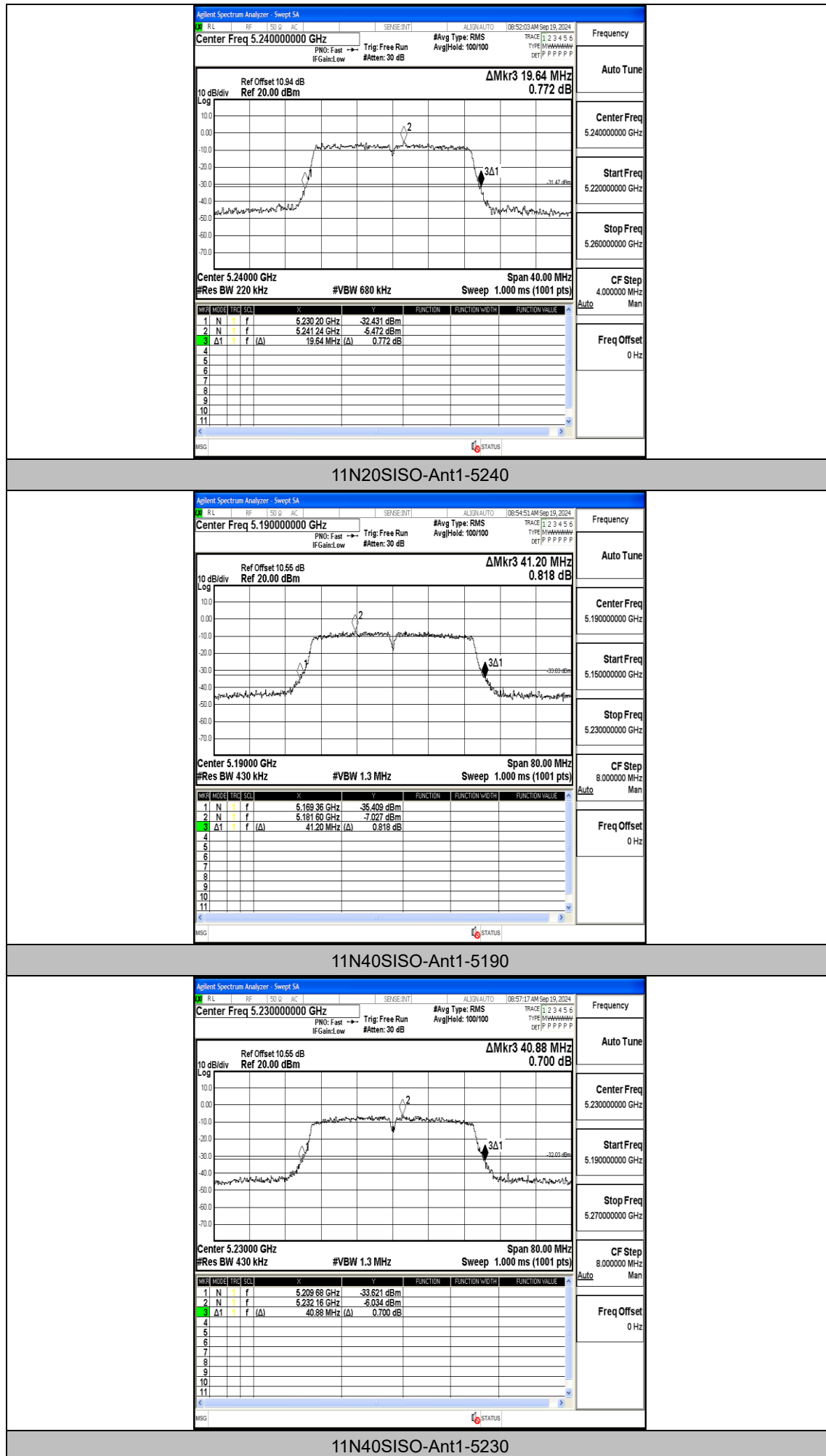
Test Result

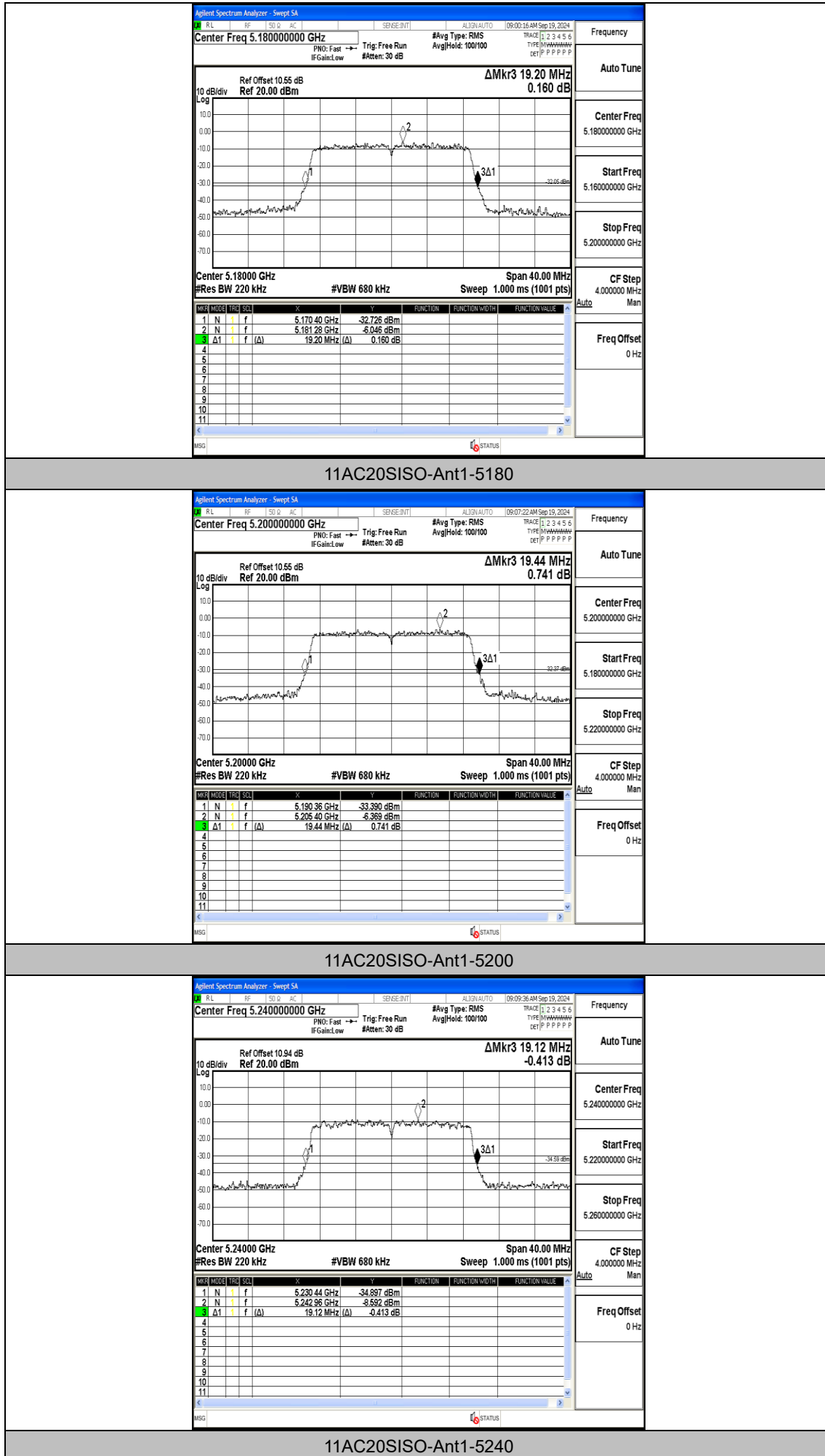
Test Mode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	18.560	5170.600	5189.160	---	---
11A	Ant1	5200	18.440	5190.800	5209.240	---	---
11A	Ant1	5240	18.520	5230.760	5249.280	---	---
11N20SISO	Ant1	5180	19.360	5170.360	5189.720	---	---
11N20SISO	Ant1	5200	19.360	5190.320	5209.680	---	---
11N20SISO	Ant1	5240	19.640	5230.200	5249.840	---	---
11N40SISO	Ant1	5190	41.200	5169.360	5210.560	---	---
11N40SISO	Ant1	5230	40.880	5209.680	5250.560	---	---
11AC20SISO	Ant1	5180	19.200	5170.400	5189.600	---	---
11AC20SISO	Ant1	5200	19.440	5190.360	5209.800	---	---
11AC20SISO	Ant1	5240	19.120	5230.440	5249.560	---	---
11AC40SISO	Ant1	5190	41.120	5169.680	5210.800	---	---
11AC40SISO	Ant1	5230	40.560	5209.840	5250.400	---	---
11AC80SISO	Ant1	5210	80.800	5170.000	5250.800	---	---

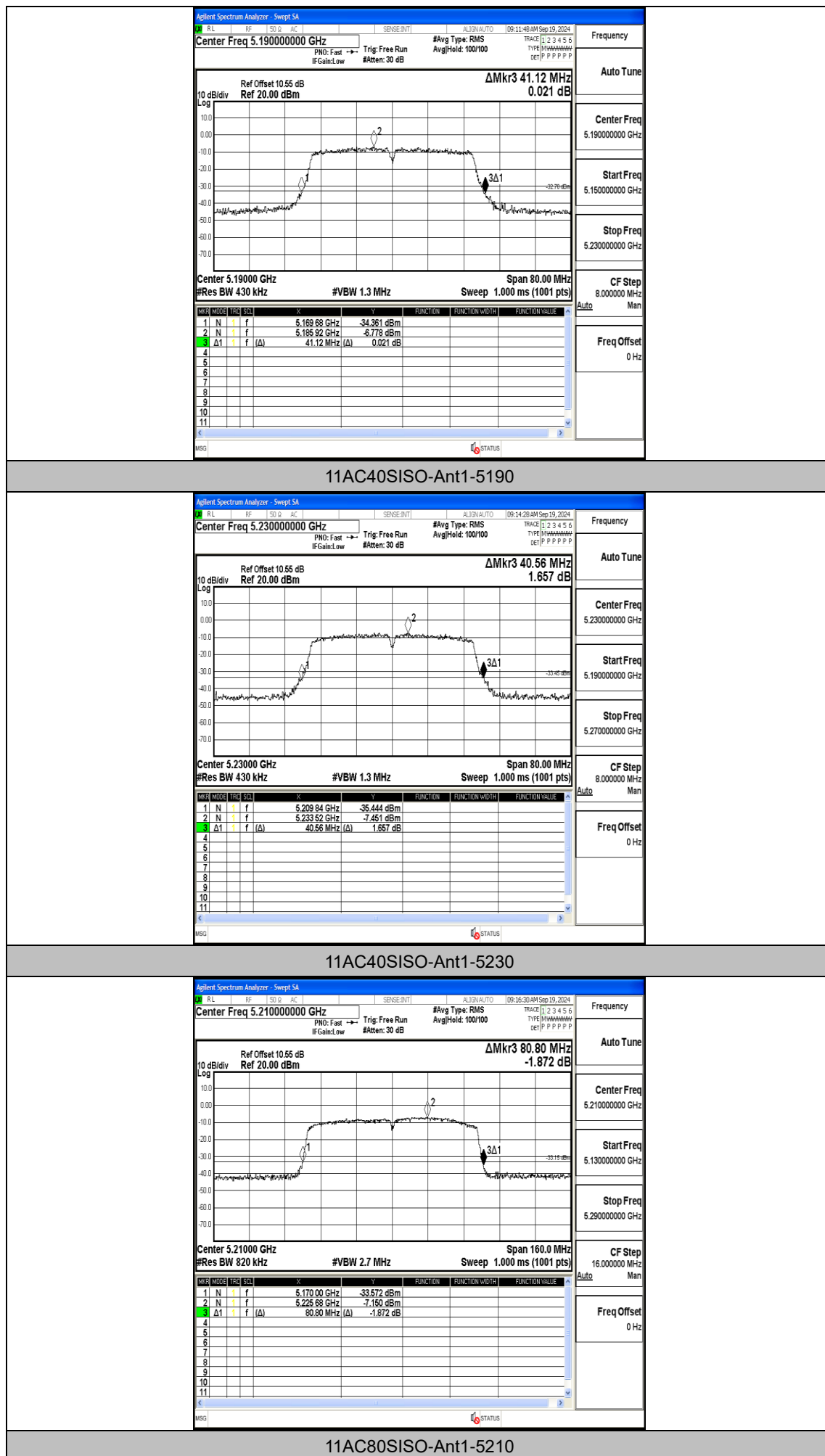
Test Graphs









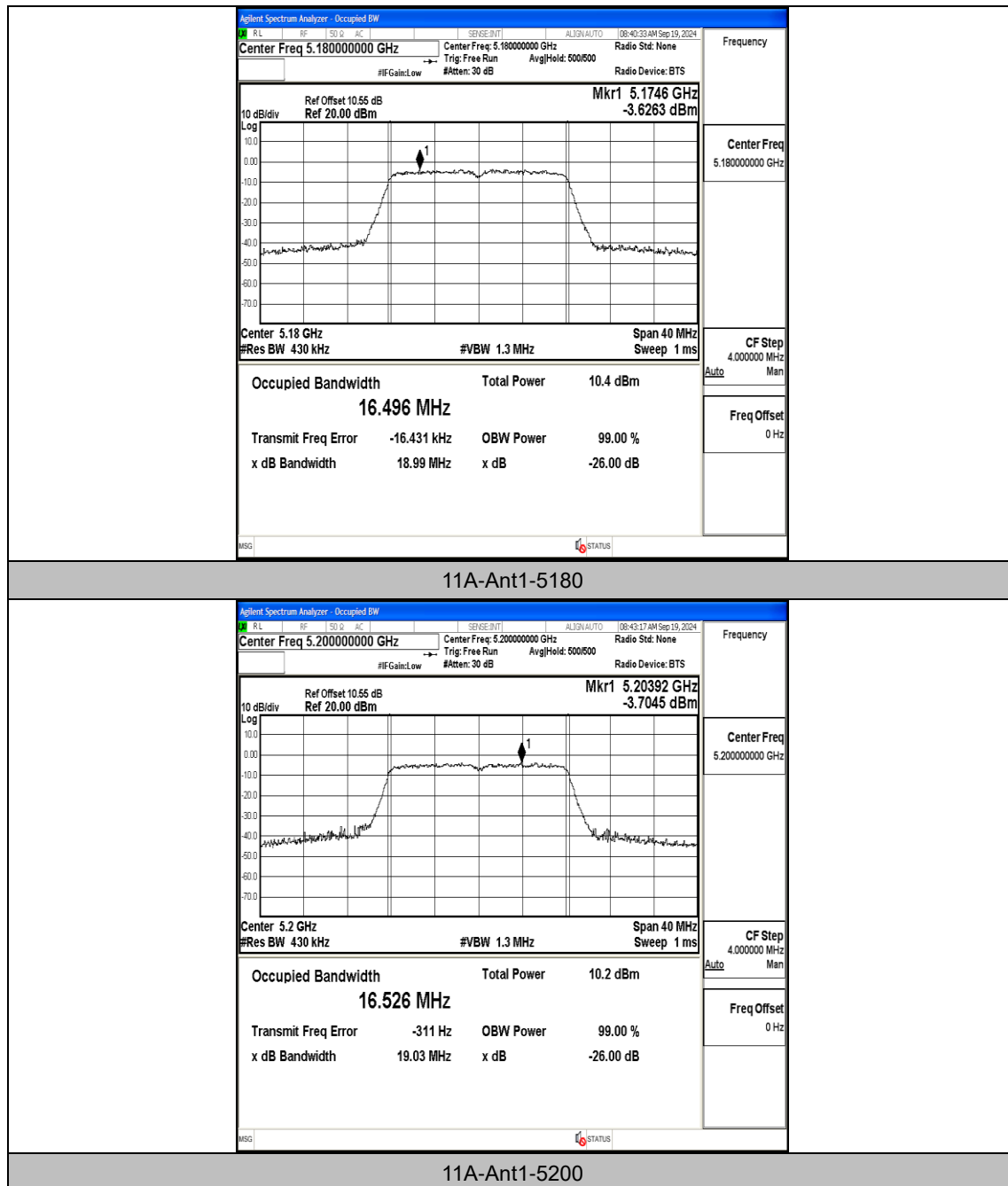


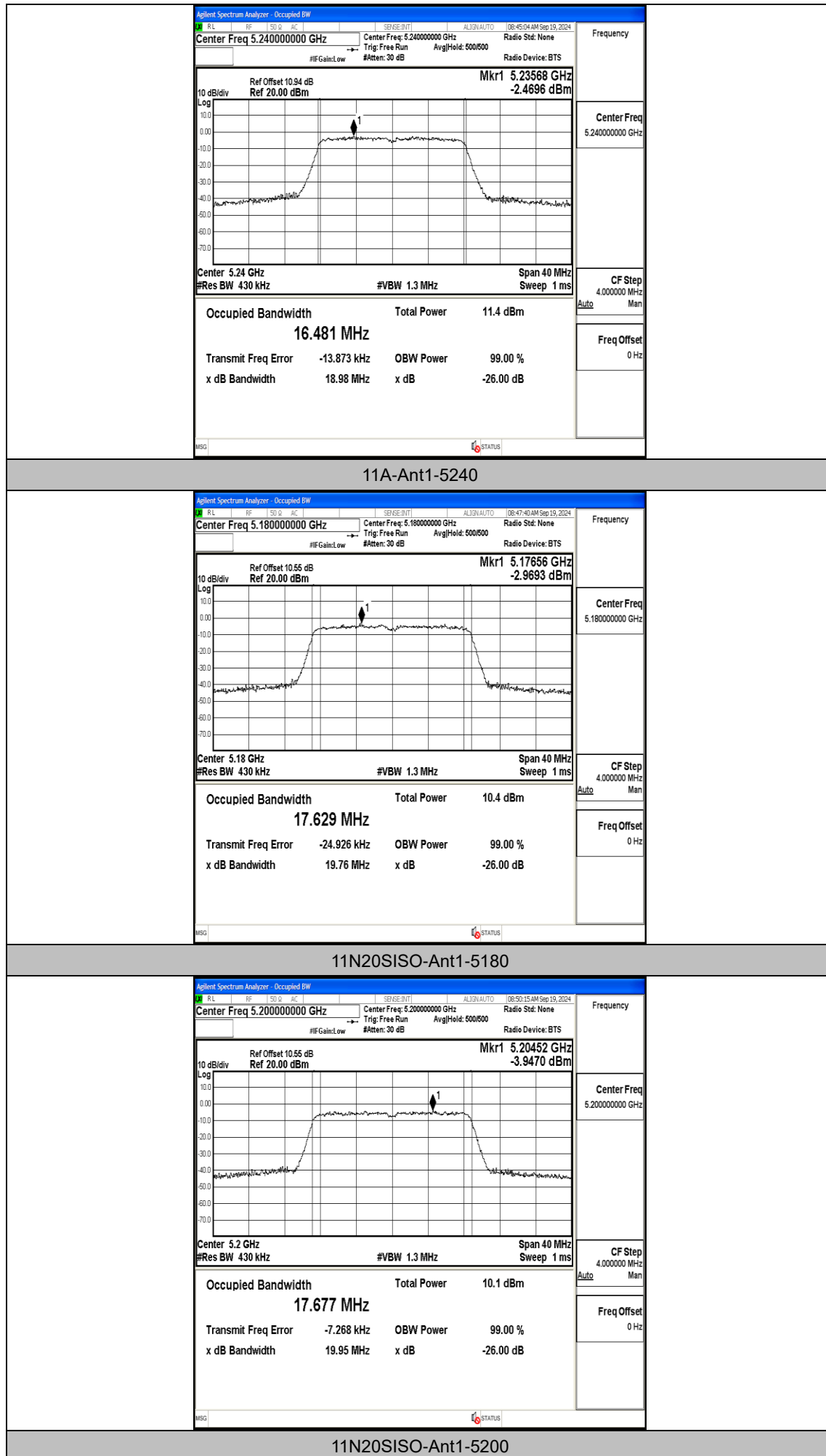
Appendix A2: Occupied channel bandwidth

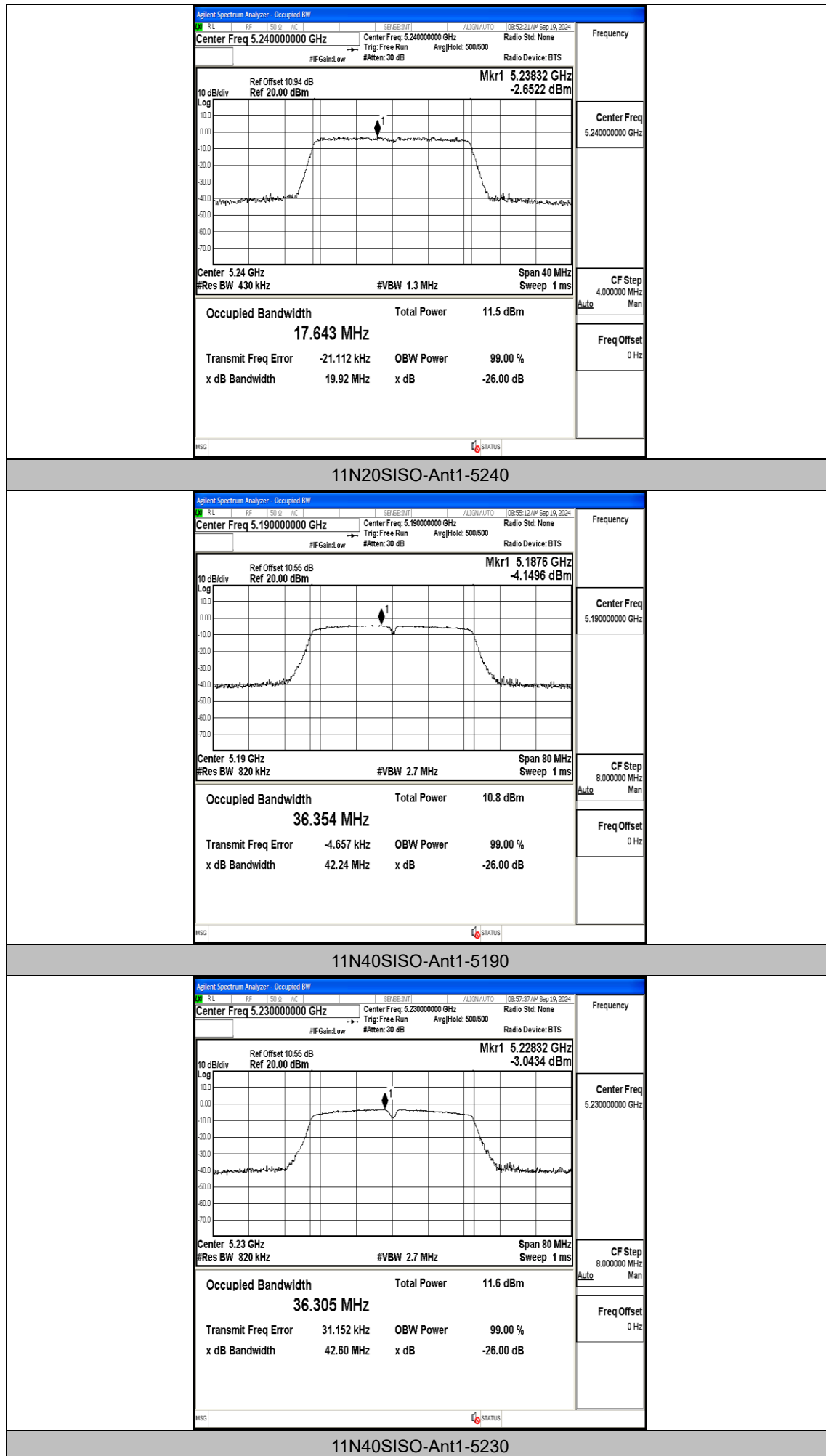
Test Result

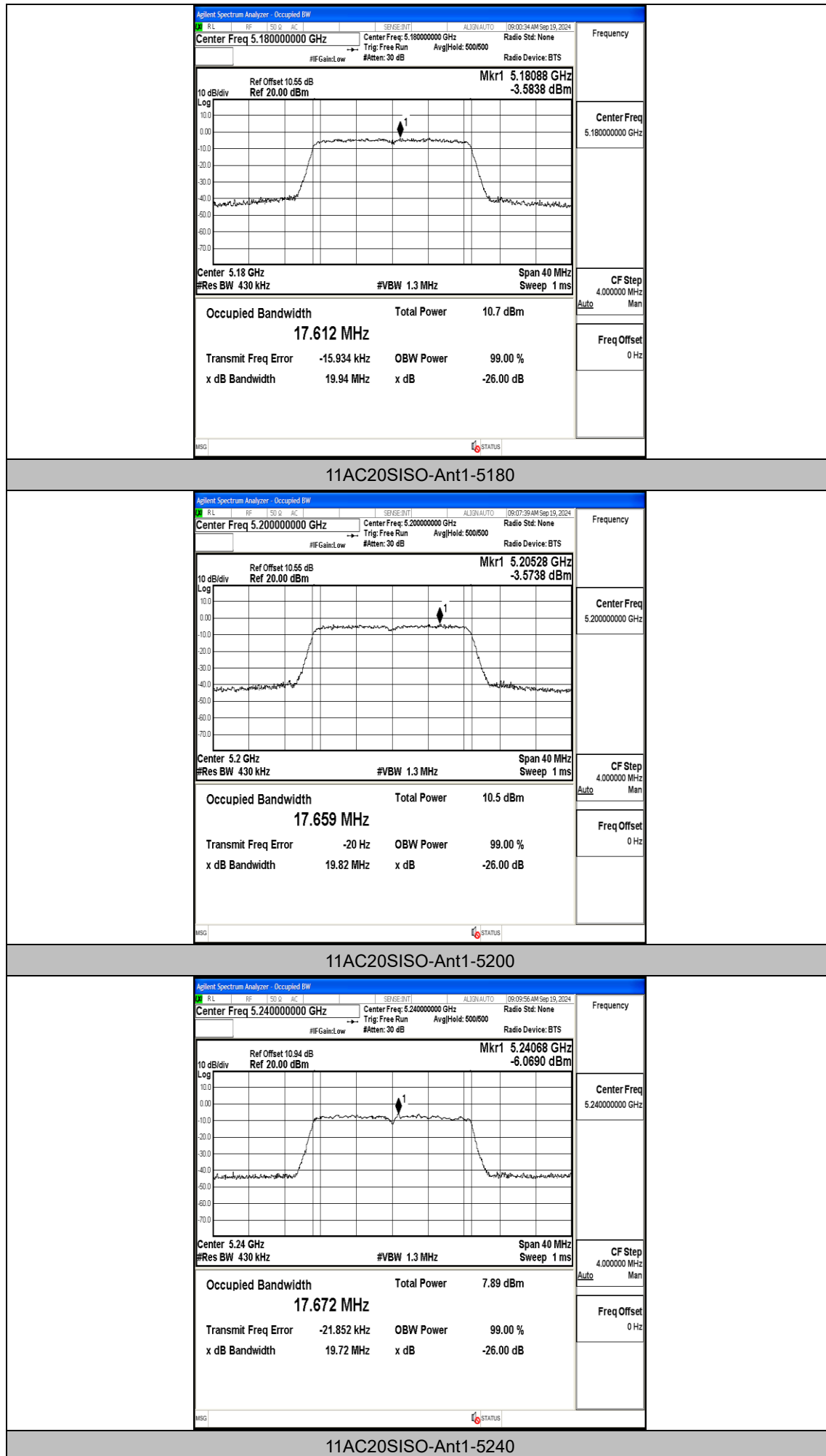
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	16.496	5171.7356	5188.2316	---	---
11A	Ant1	5200	16.526	5191.7367	5208.2627	---	---
11A	Ant1	5240	16.481	5231.7456	5248.2266	---	---
11N20SISO	Ant1	5180	17.629	5171.1606	5188.7896	---	---
11N20SISO	Ant1	5200	17.677	5191.1542	5208.8312	---	---
11N20SISO	Ant1	5240	17.643	5231.1574	5248.8004	---	---
11N40SISO	Ant1	5190	36.354	5171.8183	5208.1723	---	---
11N40SISO	Ant1	5230	36.305	5211.8787	5248.1837	---	---
11AC20SISO	Ant1	5180	17.612	5171.1781	5188.7901	---	---
11AC20SISO	Ant1	5200	17.659	5191.1705	5208.8295	---	---
11AC20SISO	Ant1	5240	17.672	5231.1422	5248.8142	---	---
11AC40SISO	Ant1	5190	36.320	5171.8972	5208.2172	---	---
11AC40SISO	Ant1	5230	36.212	5211.8676	5248.0796	---	---
11AC80SISO	Ant1	5210	74.522	5172.9387	5247.4607	---	---

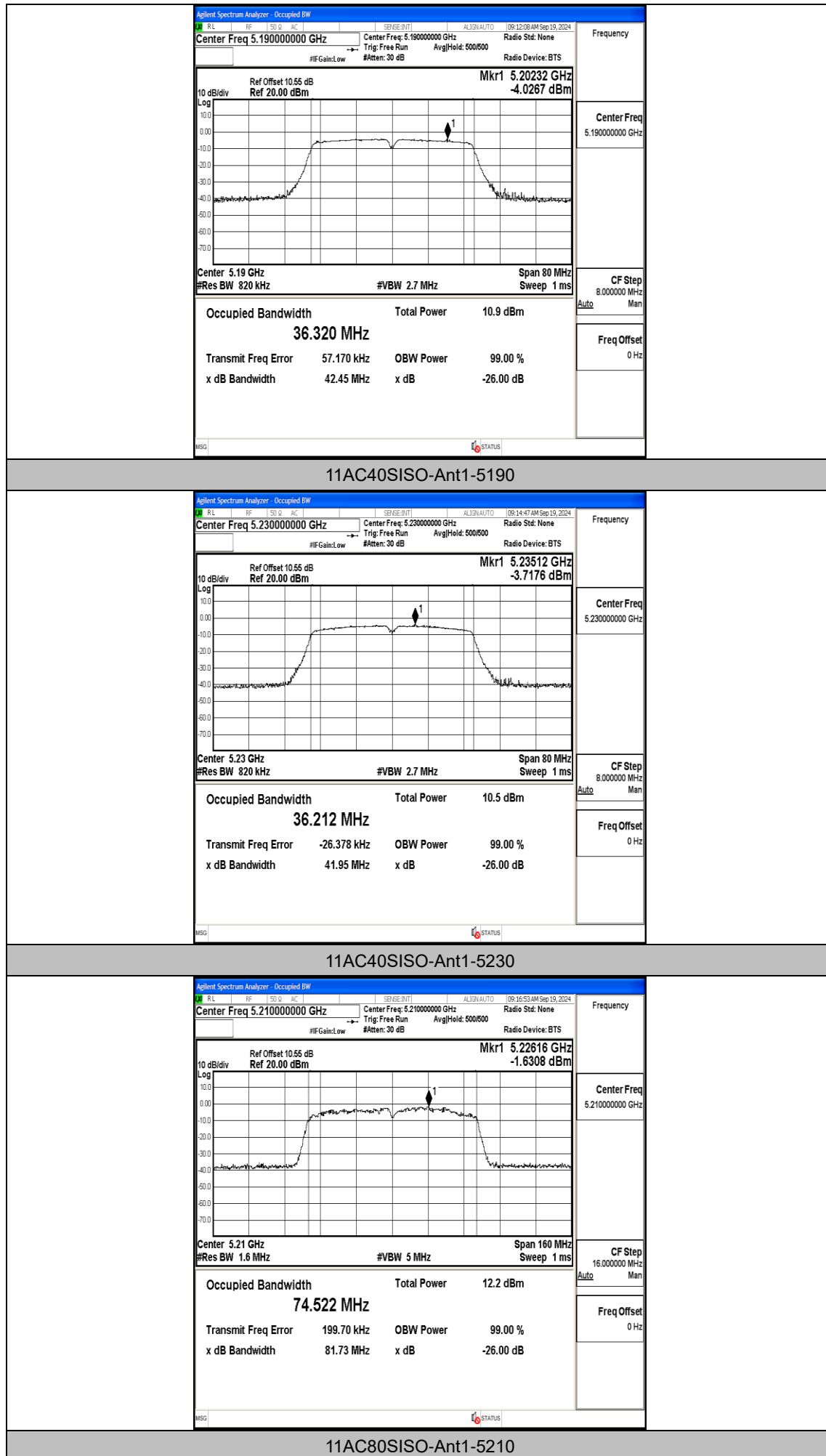
Test Graphs











Appendix B: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11A	Ant1	5180	3.81	≤23.98	PASS
11A	Ant1	5200	3.71	≤23.98	PASS
11A	Ant1	5240	4.84	≤23.98	PASS
11N20SISO	Ant1	5180	3.94	≤23.98	PASS
11N20SISO	Ant1	5200	3.85	≤23.98	PASS
11N20SISO	Ant1	5240	4.95	≤23.98	PASS
11N40SISO	Ant1	5190	3.75	≤23.98	PASS
11N40SISO	Ant1	5230	4.66	≤23.98	PASS
11AC20SISO	Ant1	5180	4.19	≤23.98	PASS
11AC20SISO	Ant1	5200	3.59	≤23.98	PASS
11AC20SISO	Ant1	5240	1.97	≤23.98	PASS
11AC40SISO	Ant1	5190	3.80	≤23.98	PASS
11AC40SISO	Ant1	5230	3.17	≤23.98	PASS
11AC80SISO	Ant1	5210	3.82	≤23.98	PASS

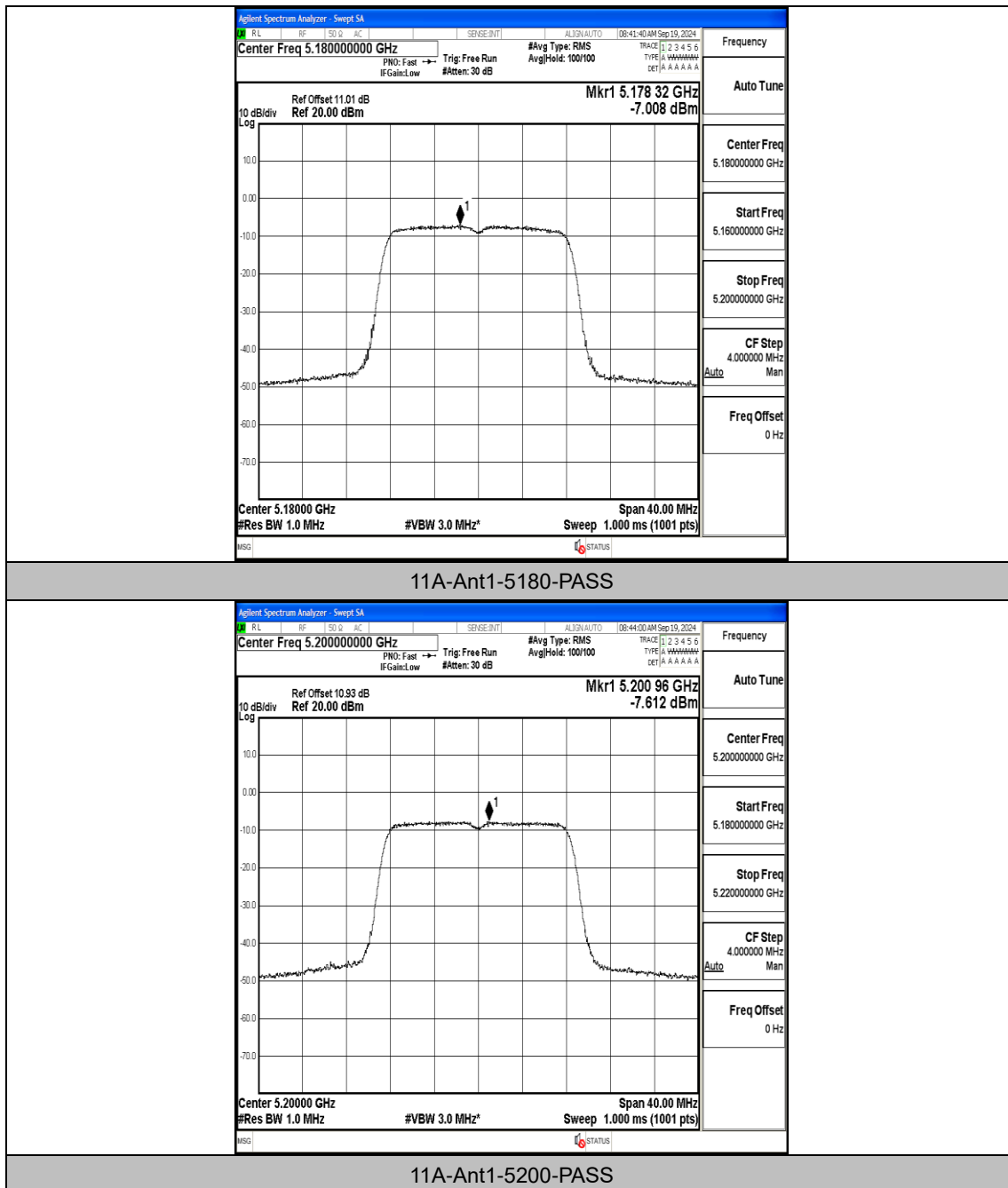
Note: The Duty Cycle Factor is compensated in the result.

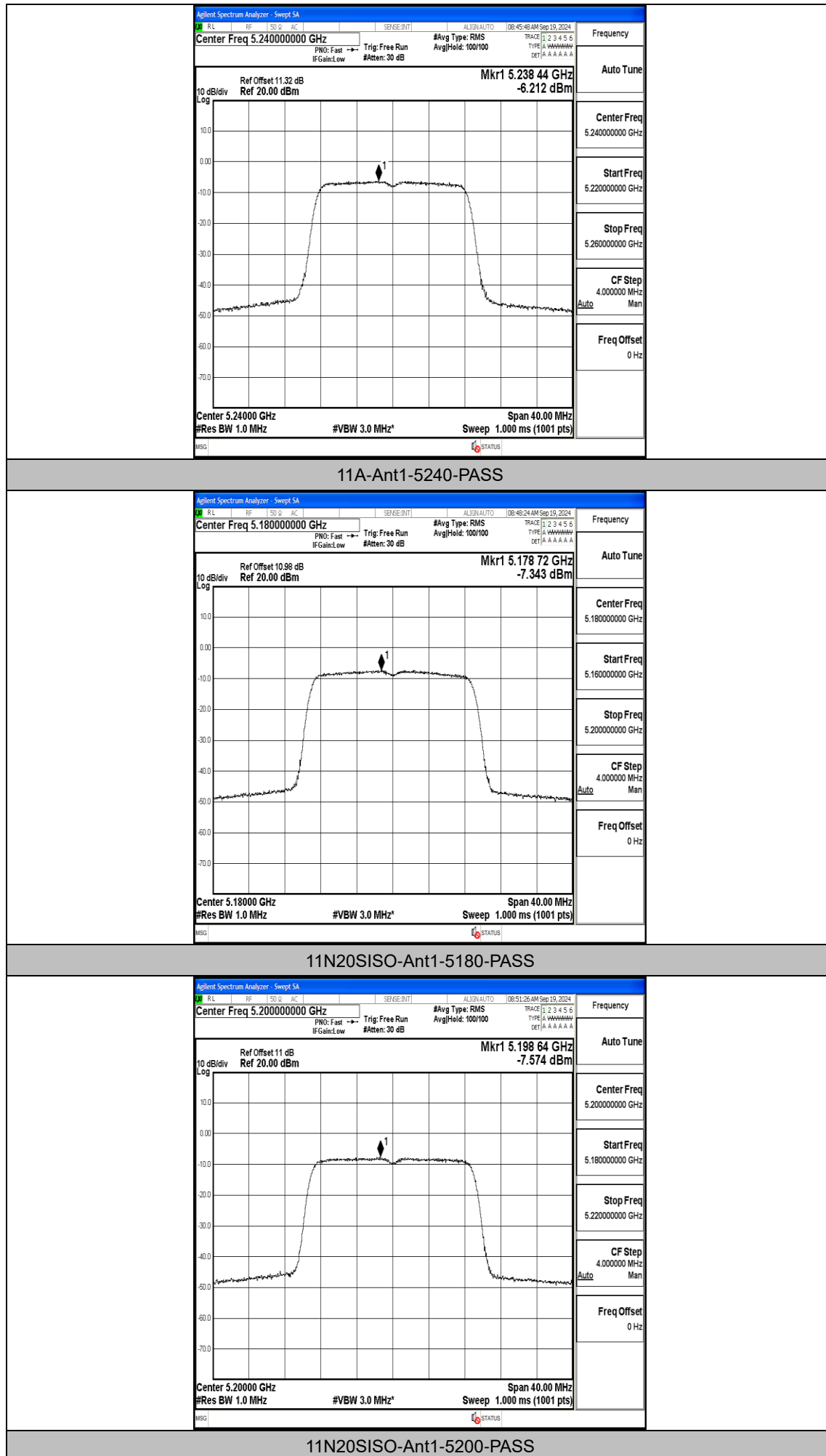
Appendix C: Maximum power spectral density

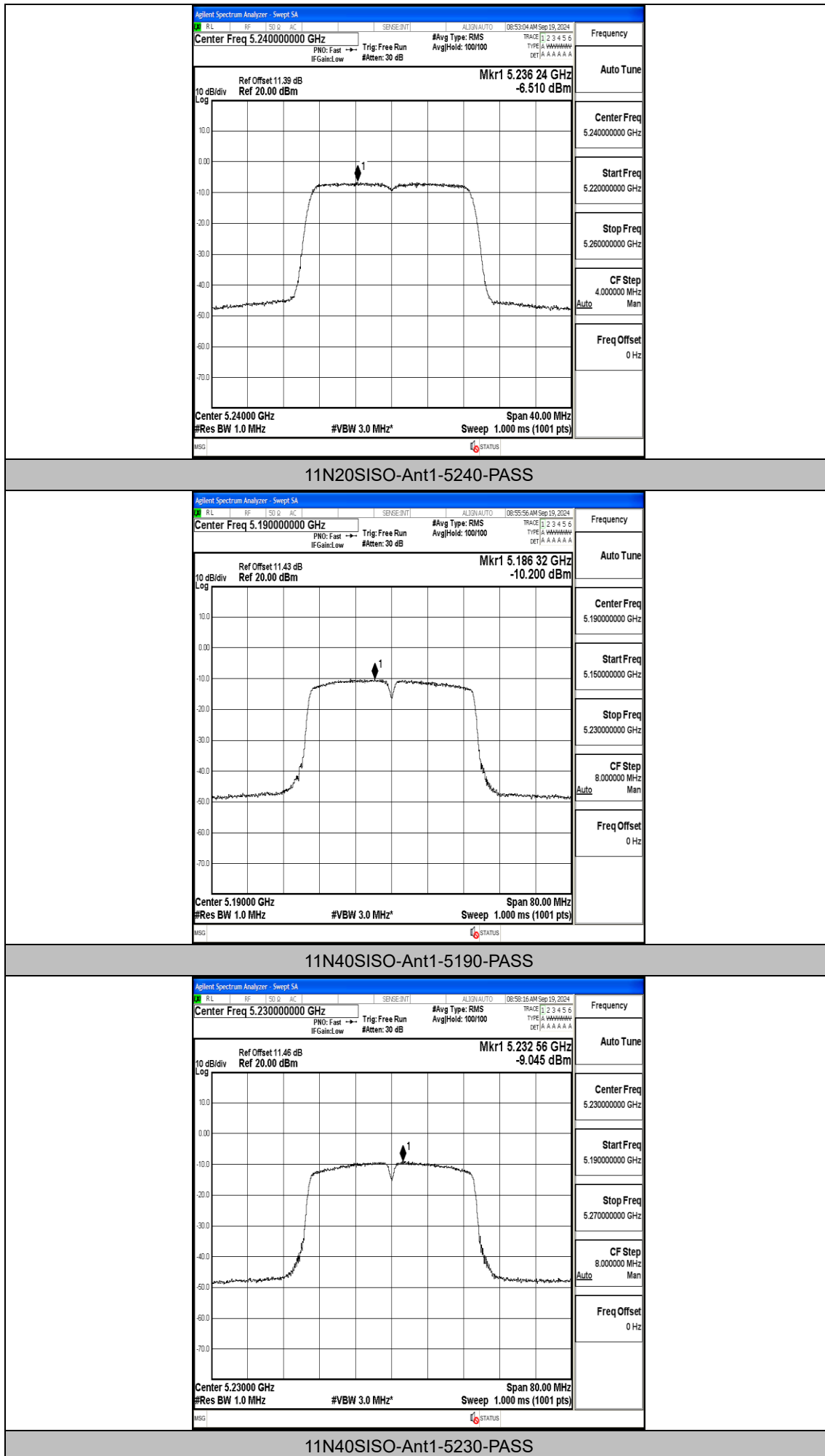
Test Result

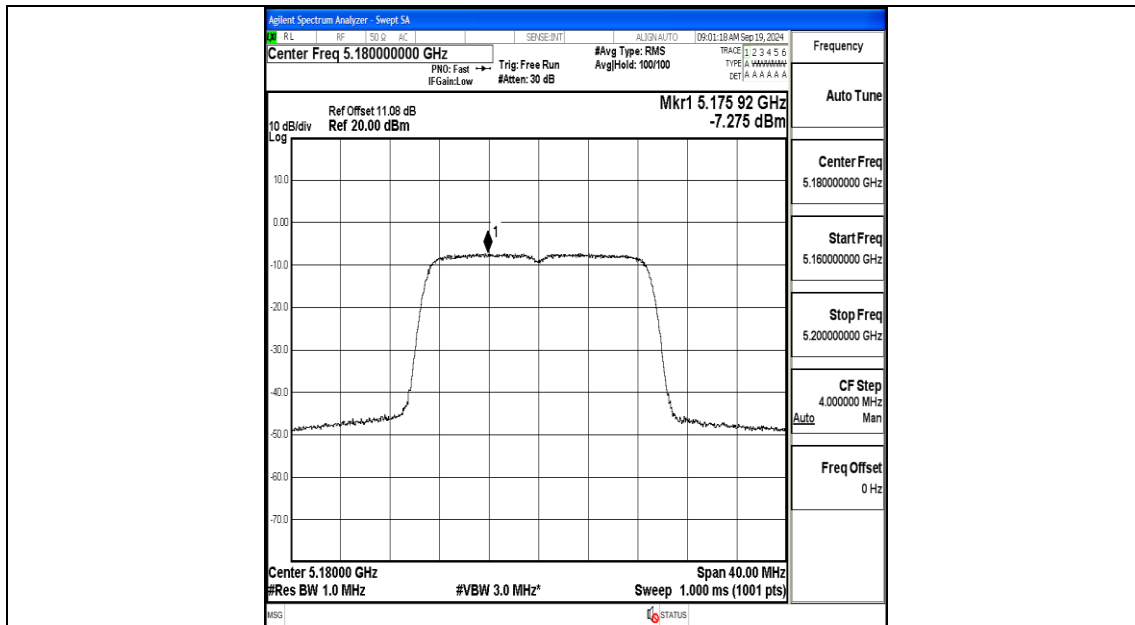
Test Mode	Antenna	Frequency [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-7.01	≤11.00	PASS
11A	Ant1	5200	-7.61	≤11.00	PASS
11A	Ant1	5240	-6.21	≤11.00	PASS
11N20SISO	Ant1	5180	-7.34	≤11.00	PASS
11N20SISO	Ant1	5200	-7.57	≤11.00	PASS
11N20SISO	Ant1	5240	-6.51	≤11.00	PASS
11N40SISO	Ant1	5190	-10.20	≤11.00	PASS
11N40SISO	Ant1	5230	-9.05	≤11.00	PASS
11AC20SISO	Ant1	5180	-7.28	≤11.00	PASS
11AC20SISO	Ant1	5200	-7.82	≤11.00	PASS
11AC20SISO	Ant1	5240	-8.45	≤11.00	PASS
11AC40SISO	Ant1	5190	-10.13	≤11.00	PASS
11AC40SISO	Ant1	5230	-10.32	≤11.00	PASS
11AC80SISO	Ant1	5210	-12.70	≤11.00	PASS

Test Graphs

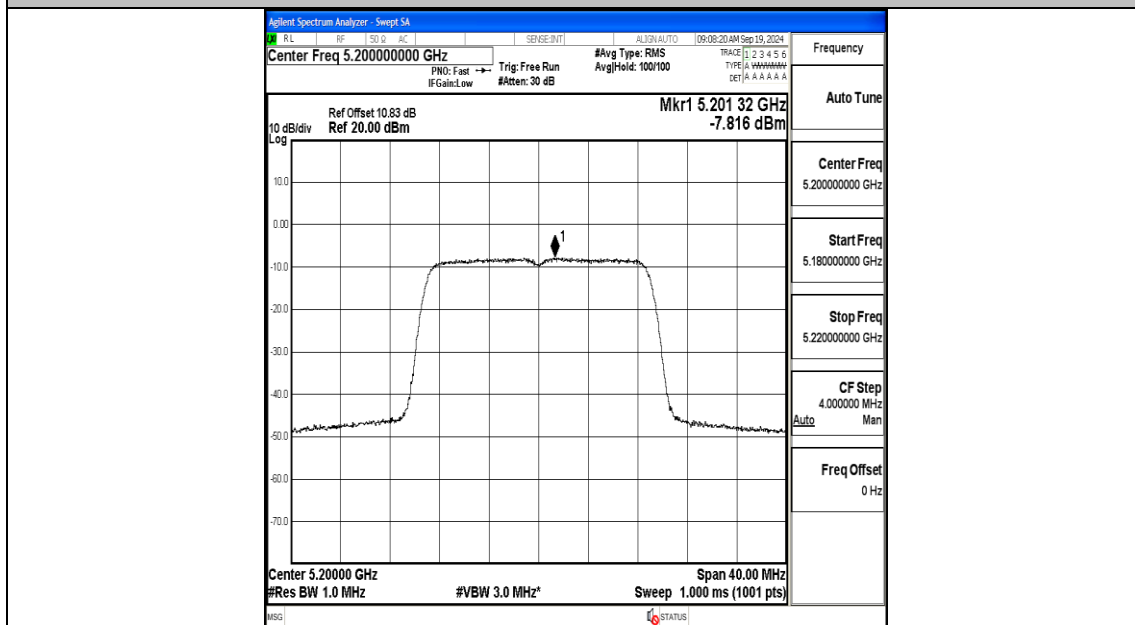




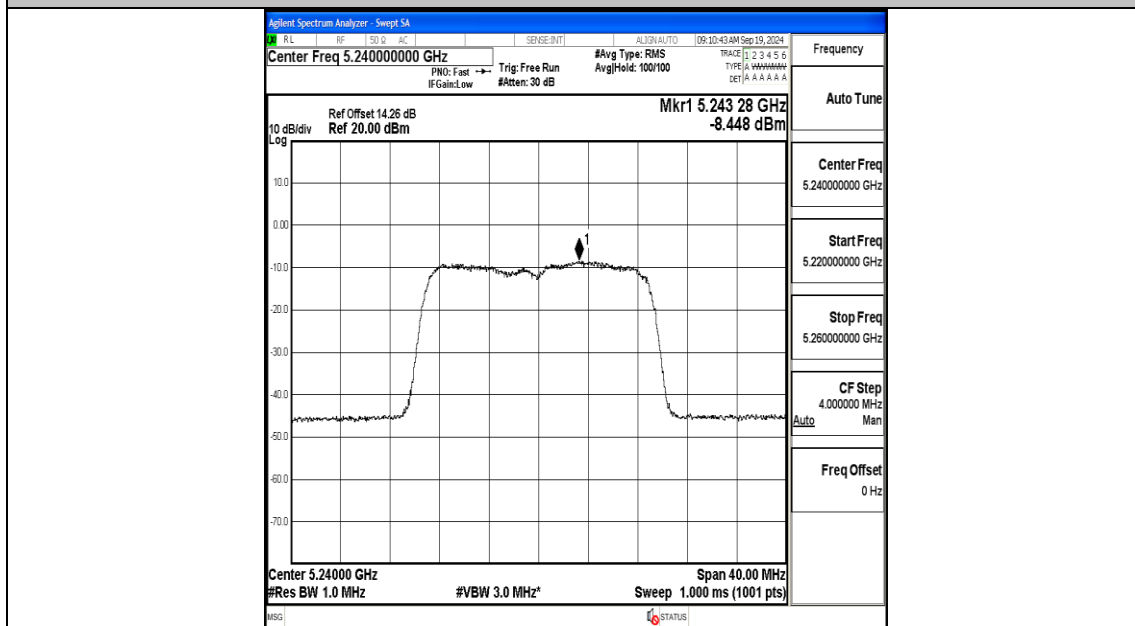




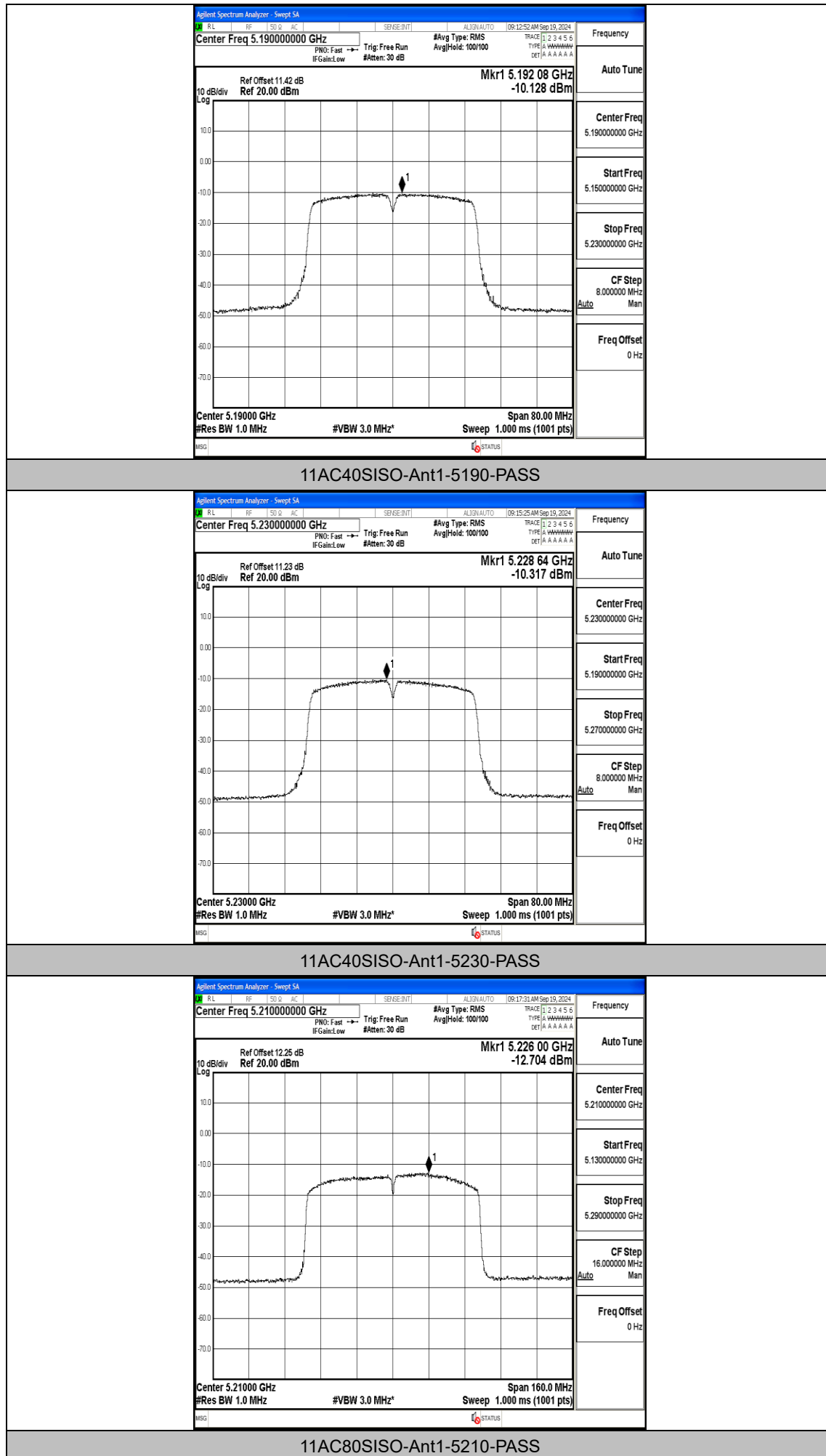
11AC20SISO-Ant1-5180-PASS



11AC20SISO-Ant1-5200-PASS



11AC20SISO-Ant1-5240-PASS

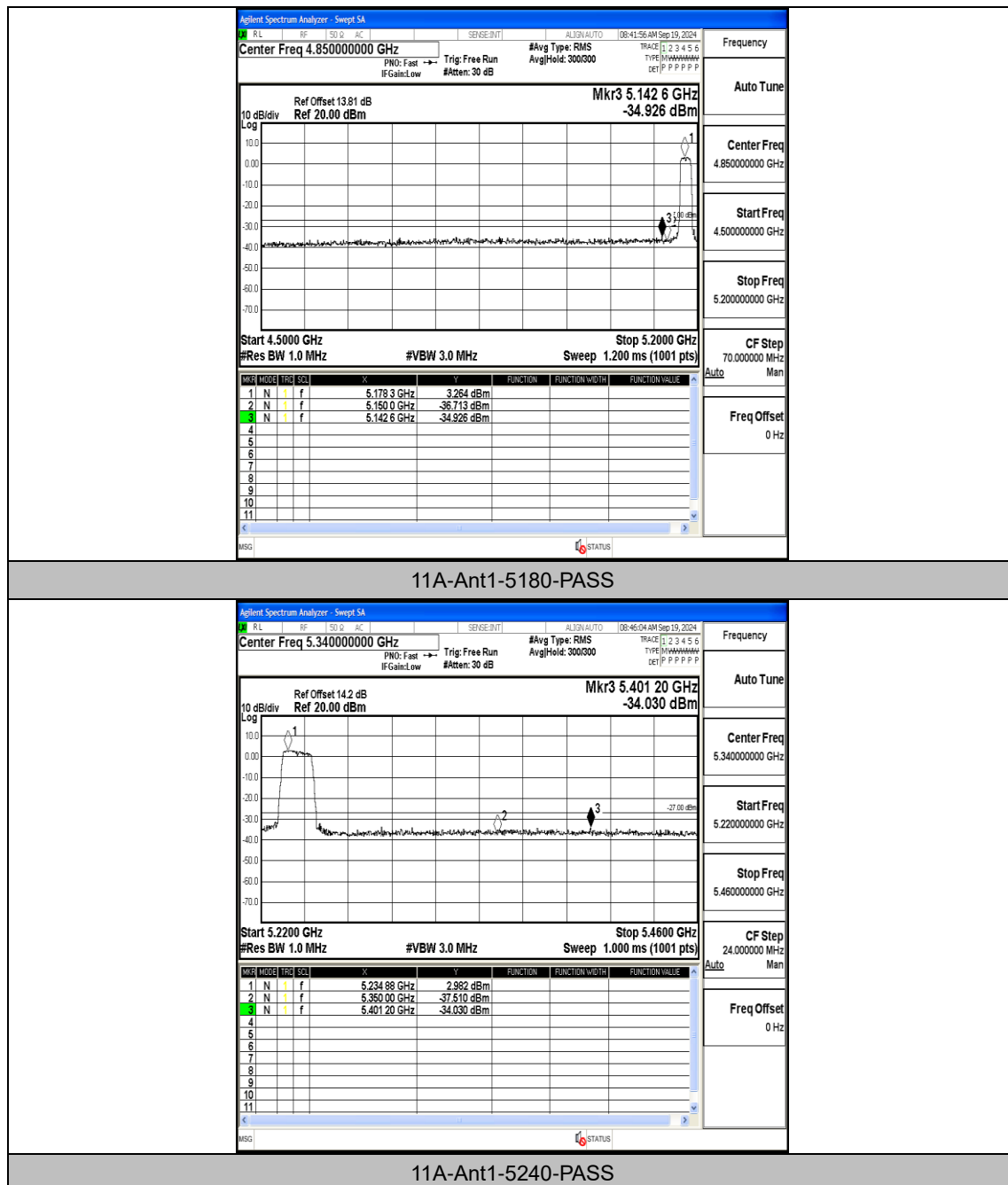


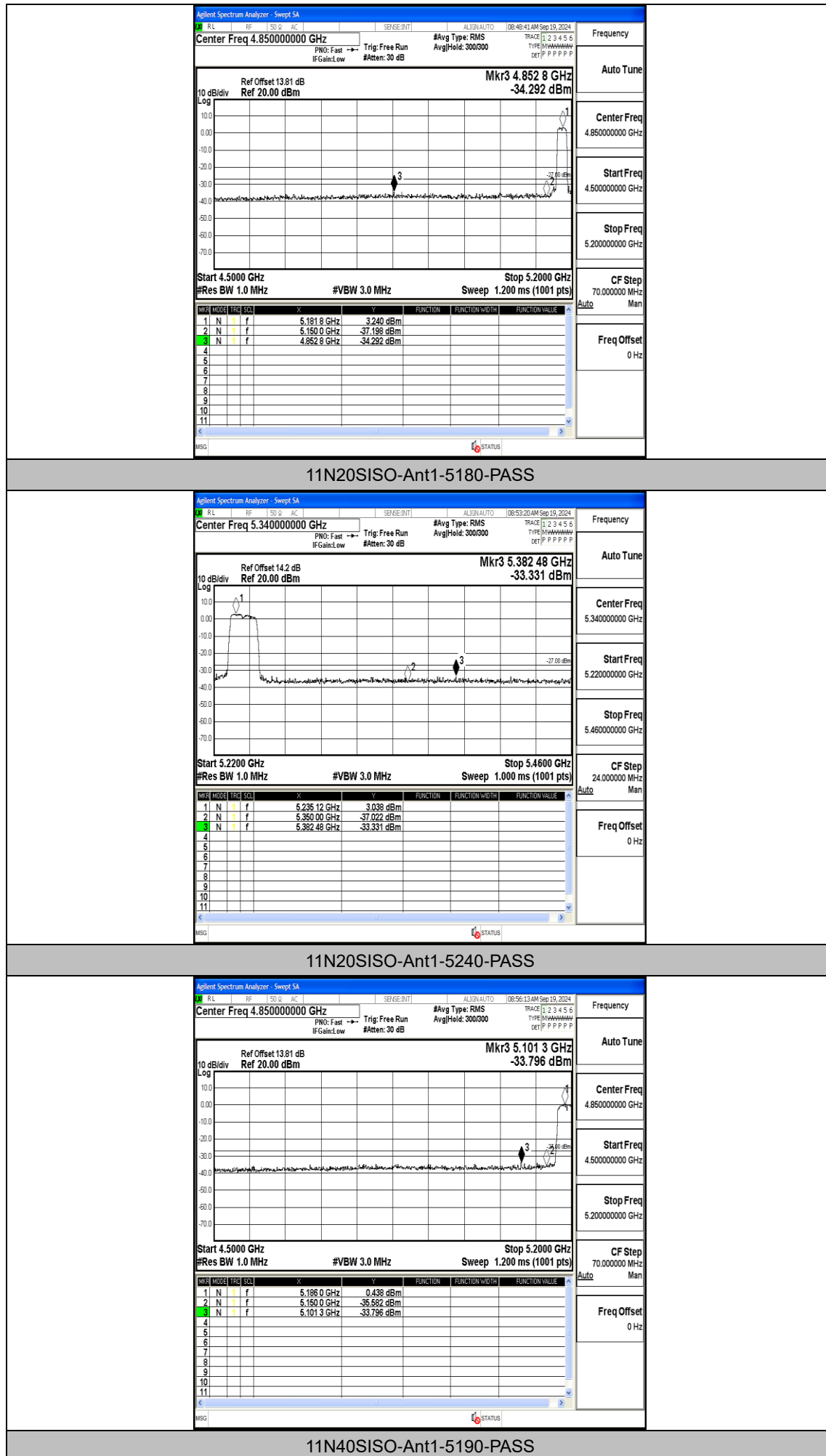
Appendix D: Band edge measurements

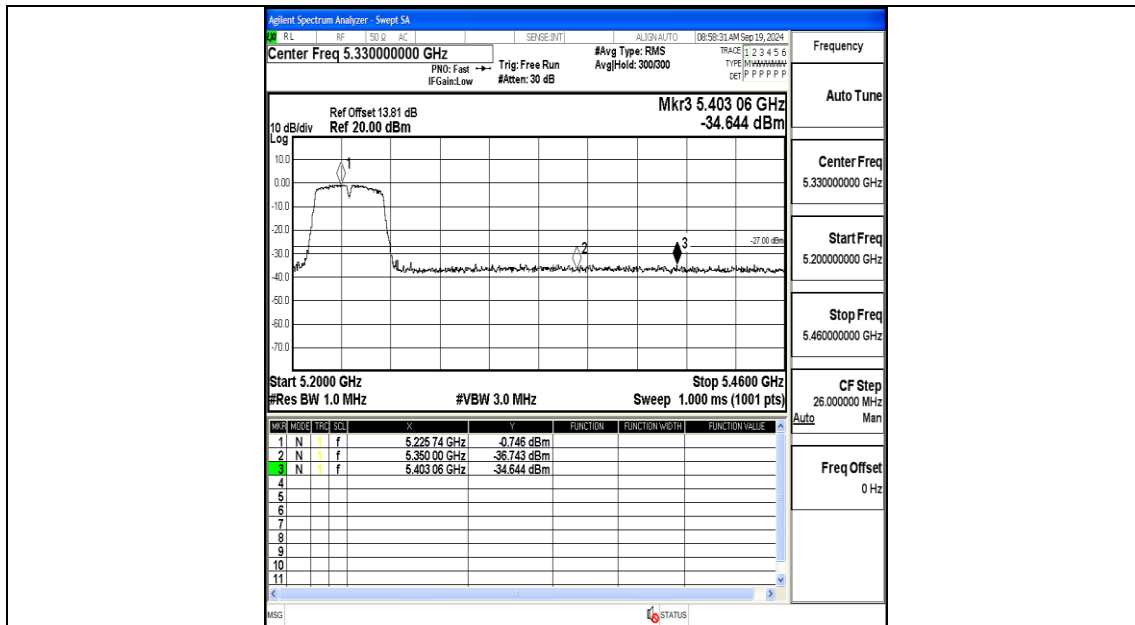
Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5180	-34.93	≤-27	PASS
11A	Ant1	High	5240	-34.03	≤-27	PASS
11N20SISO	Ant1	Low	5180	-34.29	≤-27	PASS
11N20SISO	Ant1	High	5240	-33.33	≤-27	PASS
11N40SISO	Ant1	Low	5190	-33.8	≤-27	PASS
11N40SISO	Ant1	High	5230	-34.64	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-33.84	≤-27	PASS
11AC20SISO	Ant1	High	5240	-33.85	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-34.15	≤-27	PASS
11AC40SISO	Ant1	High	5230	-33.13	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-34.69	≤-27	PASS
11AC80SISO	Ant1	High	5210	-34.99	≤-27	PASS

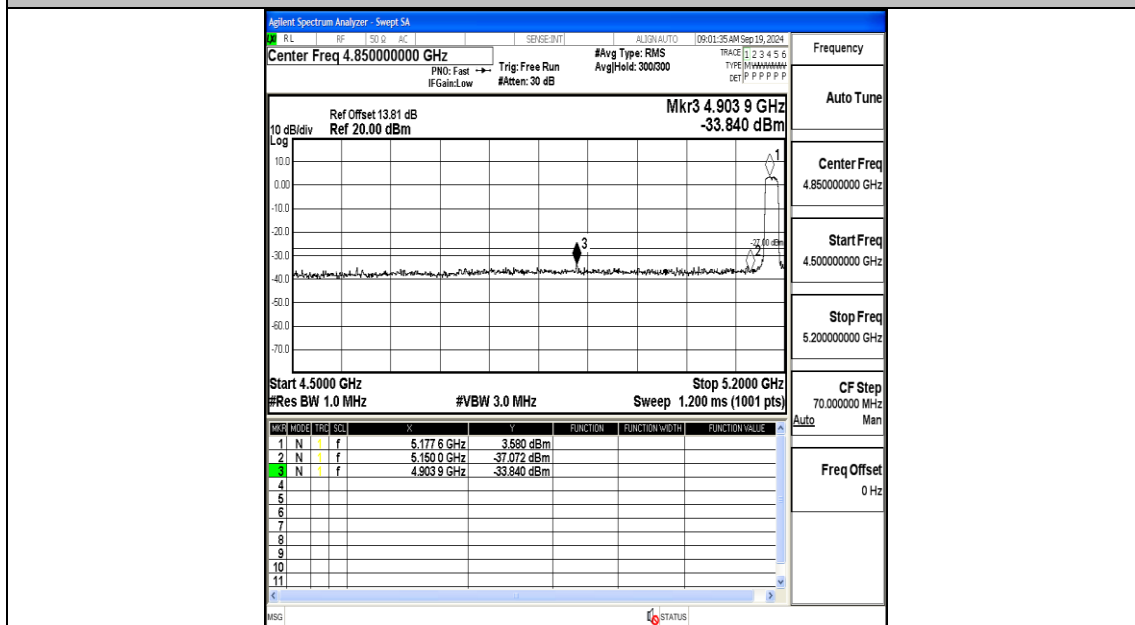
Test Graphs



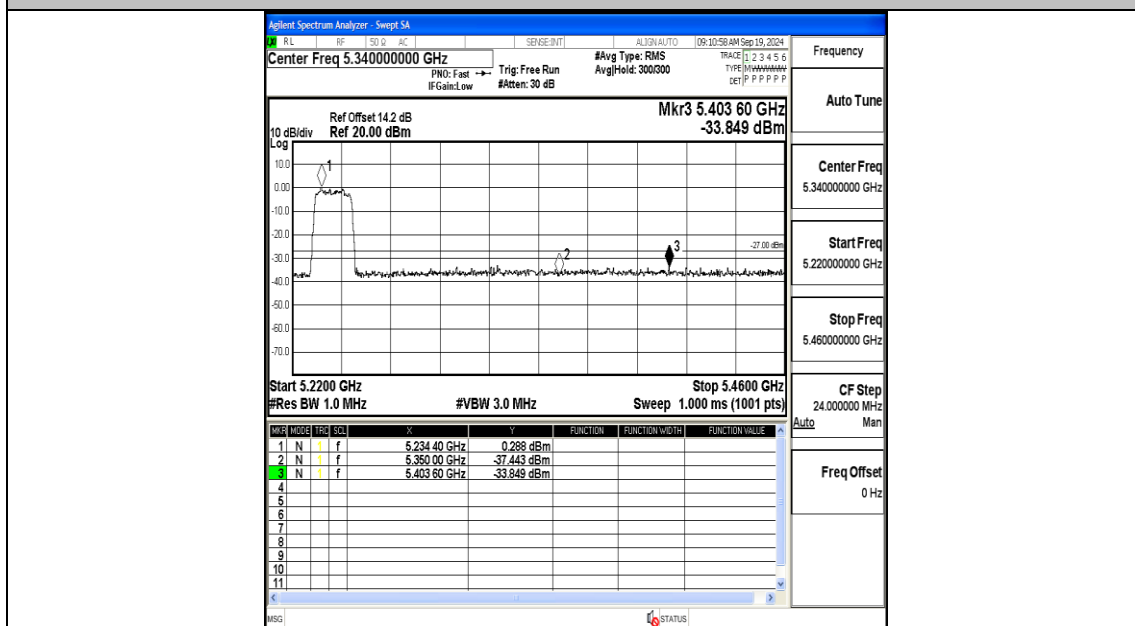




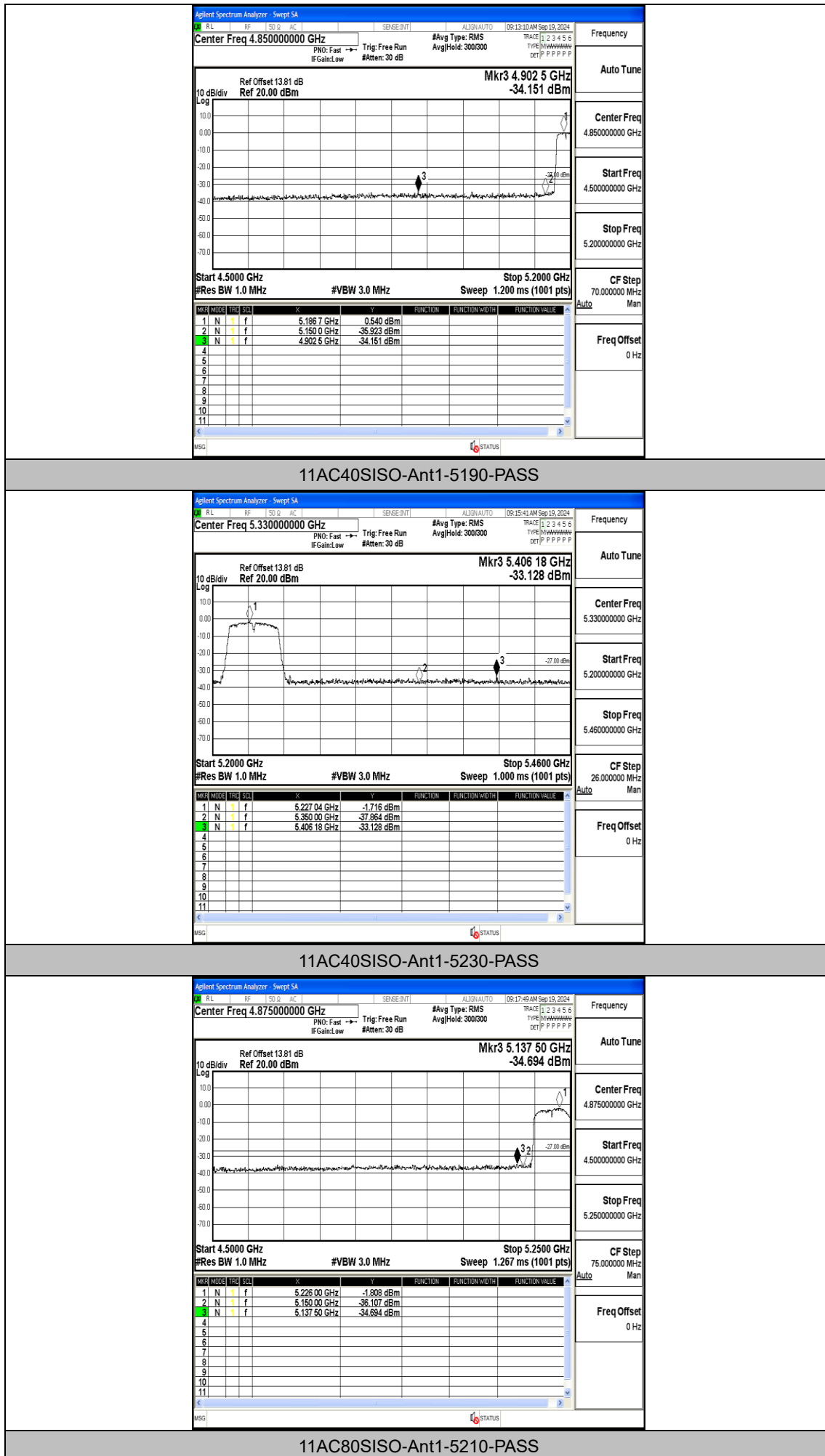
11N40SISO-Ant1-5230-PASS

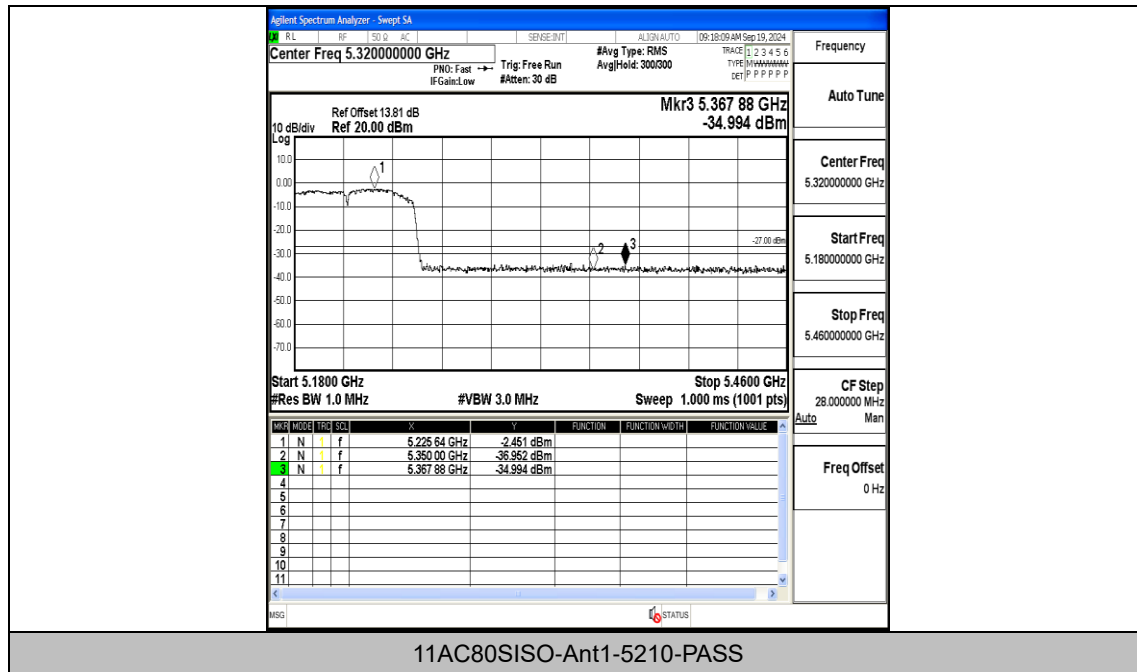


11AC20SISO-Ant1-5180-PASS



11AC20SISO-Ant1-5240-PASS





Appendix E: Frequency Stability

Test Result

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5180.005129	5150 – 5250	PASS
5180	20	108	5179.969335	5150 – 5250	PASS
5180	50	120	5180.034933	5150 – 5250	PASS
5180	40	120	5179.961207	5150 – 5250	PASS
5180	30	120	5179.944016	5150 – 5250	PASS
5180	20	120	5179.953366	5150 – 5250	PASS
5180	10	120	5179.926704	5150 – 5250	PASS
5180	0	120	5179.968161	5150 – 5250	PASS
5180	-10	120	5180.093015	5150 – 5250	PASS
5180	-20	120	5179.977630	5150 – 5250	PASS
5180	-30	120	5179.939434	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5199.946412	5150 – 5250	PASS
5200	20	108	5200.094176	5150 – 5250	PASS
5200	50	120	5200.039637	5150 – 5250	PASS
5200	40	120	5199.934464	5150 – 5250	PASS
5200	30	120	5200.037124	5150 – 5250	PASS
5200	20	120	5200.046432	5150 – 5250	PASS
5200	10	120	5199.944760	5150 – 5250	PASS
5200	0	120	5199.947695	5150 – 5250	PASS
5200	-10	120	5199.921535	5150 – 5250	PASS
5200	-20	120	5200.068697	5150 – 5250	PASS
5200	-30	120	5200.019136	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5240.022422	5150 – 5250	PASS
5240	20	108	5239.979973	5150 – 5250	PASS
5240	50	120	5239.911140	5150 – 5250	PASS
5240	40	120	5240.011221	5150 – 5250	PASS
5240	30	120	5240.076001	5150 – 5250	PASS
5240	20	120	5240.097196	5150 – 5250	PASS
5240	10	120	5239.964981	5150 – 5250	PASS
5240	0	120	5239.934266	5150 – 5250	PASS
5240	-10	120	5239.964559	5150 – 5250	PASS
5240	-20	120	5240.005501	5150 – 5250	PASS
5240	-30	120	5239.949387	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5190.087750	5150 – 5250	PASS
5190	20	108	5189.930950	5150 – 5250	PASS
5190	50	120	5189.928768	5150 – 5250	PASS
5190	40	120	5189.971984	5150 – 5250	PASS
5190	30	120	5189.981768	5150 – 5250	PASS
5190	20	120	5190.087799	5150 – 5250	PASS
5190	10	120	5190.093155	5150 – 5250	PASS
5190	0	120	5190.012565	5150 – 5250	PASS
5190	-10	120	5190.021701	5150 – 5250	PASS
5190	-20	120	5189.987662	5150 – 5250	PASS
5190	-30	120	5190.027504	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5229.942115	5150 – 5250	PASS
5230	20	108	5229.909968	5150 – 5250	PASS
5230	50	120	5230.079754	5150 – 5250	PASS
5230	40	120	5230.049069	5150 – 5250	PASS
5230	30	120	5230.053682	5150 – 5250	PASS
5230	20	120	5229.996703	5150 – 5250	PASS
5230	10	120	5230.037926	5150 – 5250	PASS
5230	0	120	5230.058278	5150 – 5250	PASS
5230	-10	120	5230.070241	5150 – 5250	PASS
5230	-20	120	5229.960882	5150 – 5250	PASS
5230	-30	120	5229.926624	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5210.091640	5150 – 5250	PASS
5210	20	108	5210.043473	5150 – 5250	PASS
5210	50	120	5210.032886	5150 – 5250	PASS
5210	40	120	5210.027515	5150 – 5250	PASS
5210	30	120	5210.042971	5150 – 5250	PASS
5210	20	120	5209.971419	5150 – 5250	PASS
5210	10	120	5210.047780	5150 – 5250	PASS
5210	0	120	5209.997254	5150 – 5250	PASS
5210	-10	120	5209.970826	5150 – 5250	PASS
5210	-20	120	5209.927968	5150 – 5250	PASS
5210	-30	120	5210.061009	5150 – 5250	PASS

Appendix F: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [%]	1/T [kHz]
11A	Ant1	5180	2.05	2.28	89.91	0.46	0.49
11A	Ant1	5200	2.06	2.25	91.56	0.38	0.49
11A	Ant1	5240	2.07	2.26	91.59	0.38	0.48
11N20SISO	Ant1	5180	1.91	2.11	90.52	0.43	0.52
11N20SISO	Ant1	5200	1.93	2.14	90.19	0.45	0.52
11N20SISO	Ant1	5240	1.92	2.13	90.14	0.45	0.52
11N40SISO	Ant1	5190	0.94	1.15	81.74	0.88	1.06
11N40SISO	Ant1	5230	0.94	1.16	81.03	0.91	1.06
11AC20SISO	Ant1	5180	1.93	2.18	88.53	0.53	0.52
11AC20SISO	Ant1	5200	1.93	2.06	93.69	0.28	0.52
11AC20SISO	Ant1	5240	0.20	0.43	46.51	3.32	5.00
11AC40SISO	Ant1	5190	0.95	1.16	81.90	0.87	1.05
11AC40SISO	Ant1	5230	0.95	1.11	85.59	0.68	1.05
11AC80SISO	Ant1	5210	0.46	0.68	67.65	1.70	2.17

Test Graphs

