

Appendix D

RF Test Data for 5G WLAN (Conducted Measurement)

Product Name: FoldSat LEO Ku OW

Trade Mark: FoldSat LEO Ku OW

Test Model: INSTER_RA01

Environmental Conditions

Temperature:	24.3 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Alan Wang
Supervised by:	Amy Wen

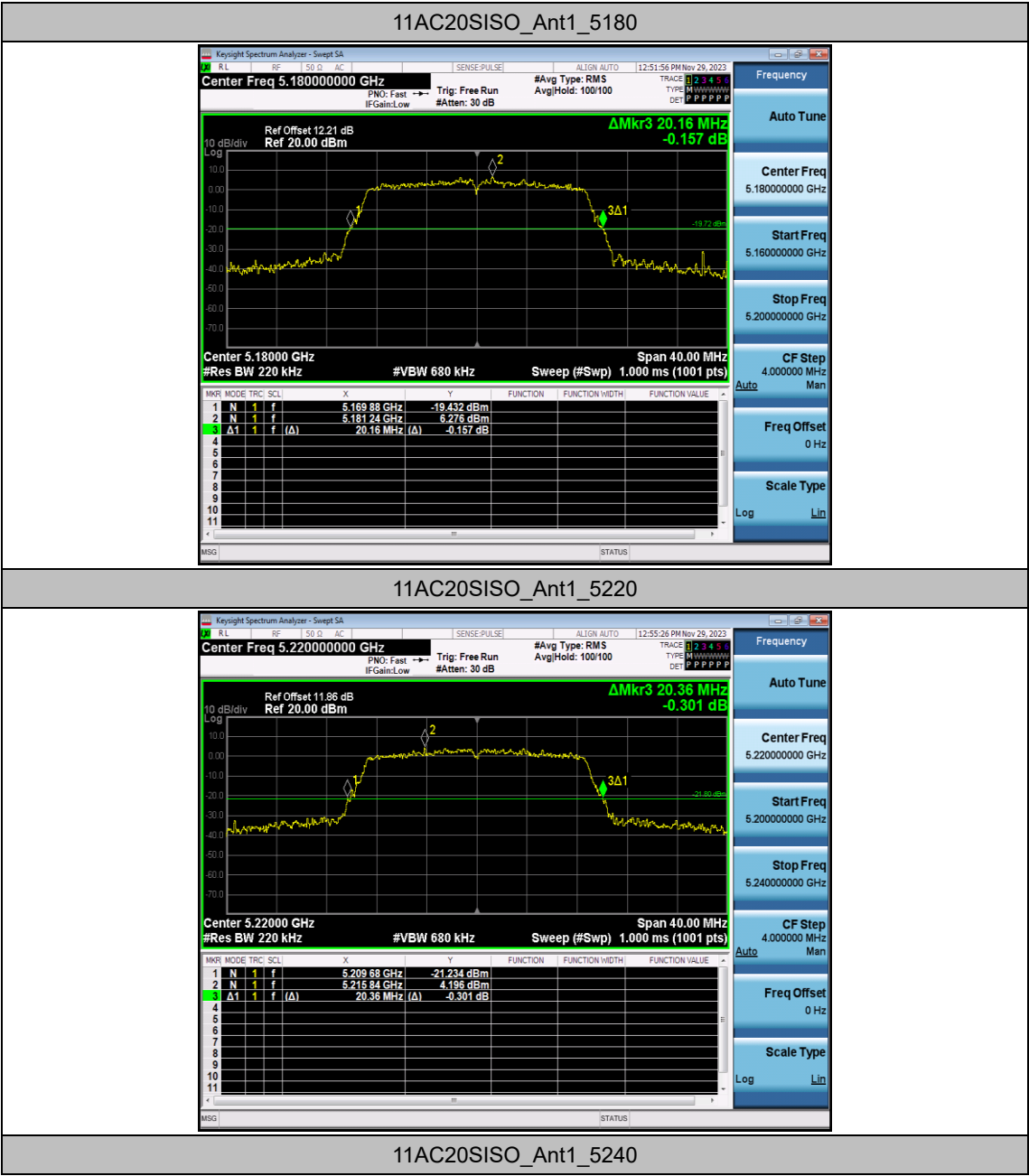
Appendix A1: Emission Bandwidth

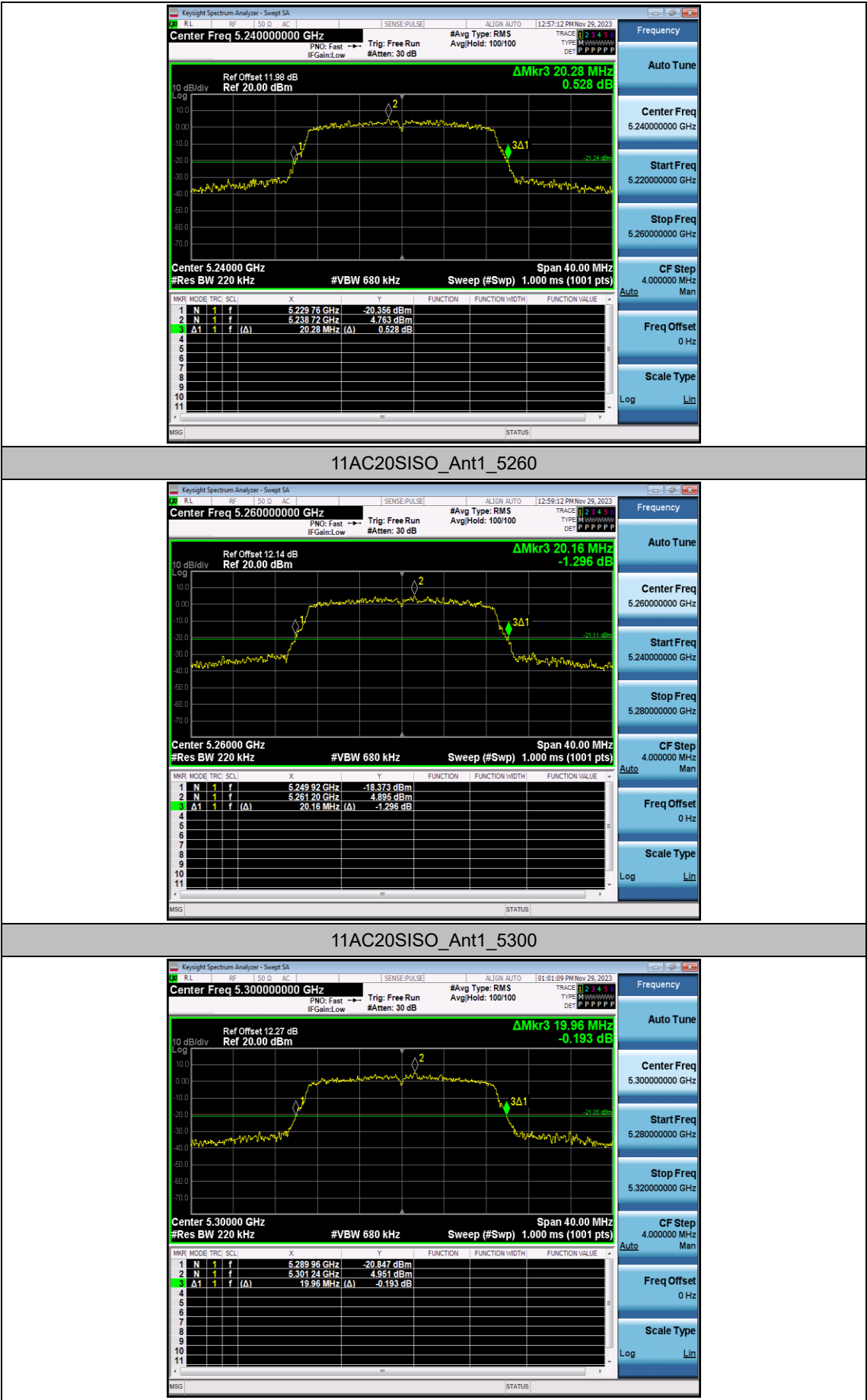
Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AC20SISO	Ant1	5180	20.160	5169.880	5190.040	---	---
		5220	20.360	5209.680	5230.040	---	---
		5240	20.280	5229.760	5250.040	---	---
		5260	20.160	5249.920	5270.080	---	---
		5300	19.960	5289.960	5309.920	---	---
		5320	20.040	5309.880	5329.920	---	---
		5500	19.880	5490.000	5509.880	---	---
		5580	20.080	5569.920	5590.000	---	---
		5700	20.280	5689.840	5710.120	---	---
		5745	20.200	5734.920	5755.120	---	---
		5785	20.040	5775.040	5795.080	---	---

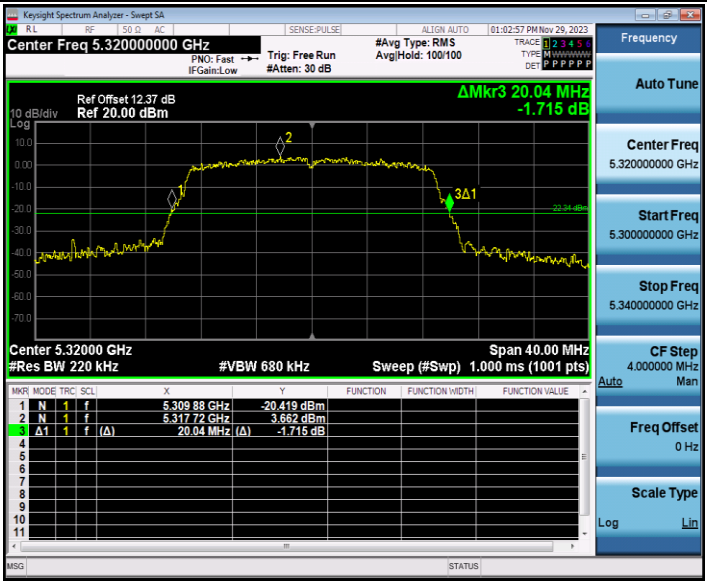
		5825	20.400	5814.720	5835.120	---	---
11AC40SISO	Ant1	5190	40.320	5170.000	5210.320	---	---
		5230	40.880	5209.680	5250.560	---	---
		5270	40.800	5249.600	5290.400	---	---
		5310	40.400	5289.840	5330.240	---	---
		5510	40.160	5489.840	5530.000	---	---
		5550	40.080	5530.000	5570.080	---	---
		5670	41.600	5648.880	5690.480	---	---
		5755	40.560	5734.760	5775.320	---	---
		5795	40.640	5774.600	5815.240	---	---
11AC80SISO	Ant1	5210	80.960	5169.840	5250.800	---	---
		5290	80.480	5249.680	5330.160	---	---
		5530	81.440	5488.880	5570.320	---	---
		5775	80.800	5734.680	5815.480	---	---

Test Graphs

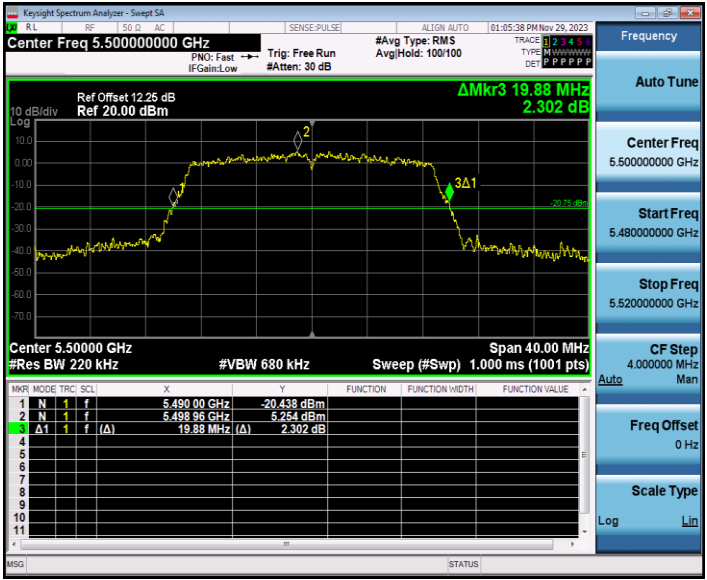




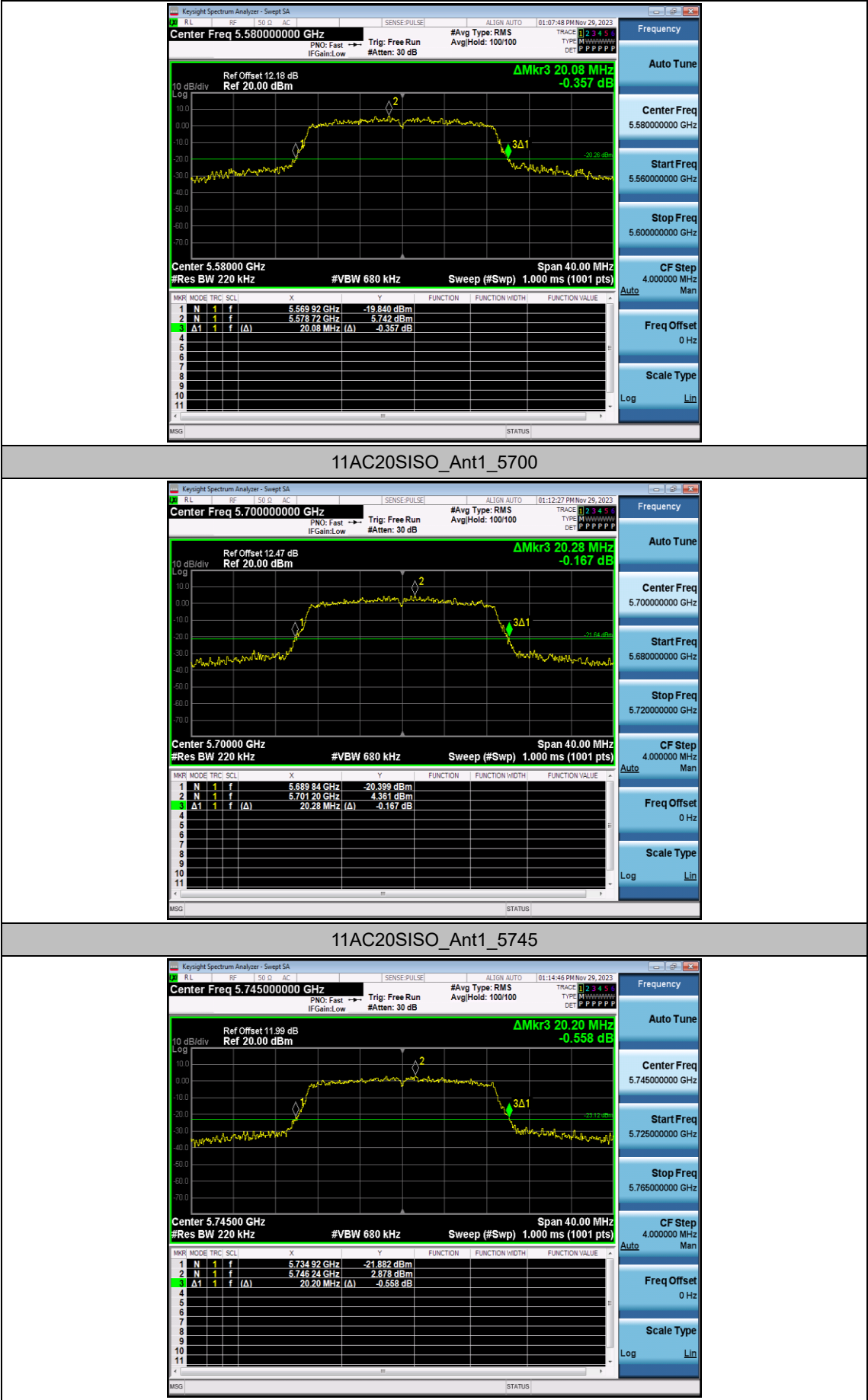
11AC20SISO_Ant1_5320



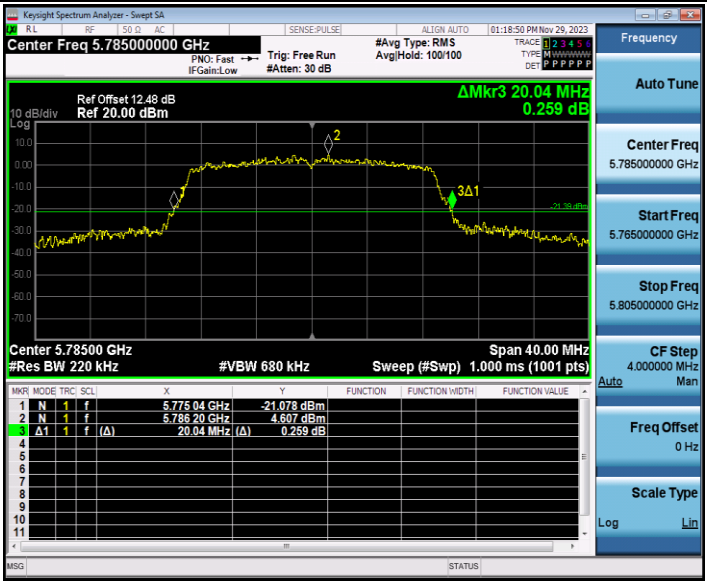
11AC20SISO_Ant1_5500



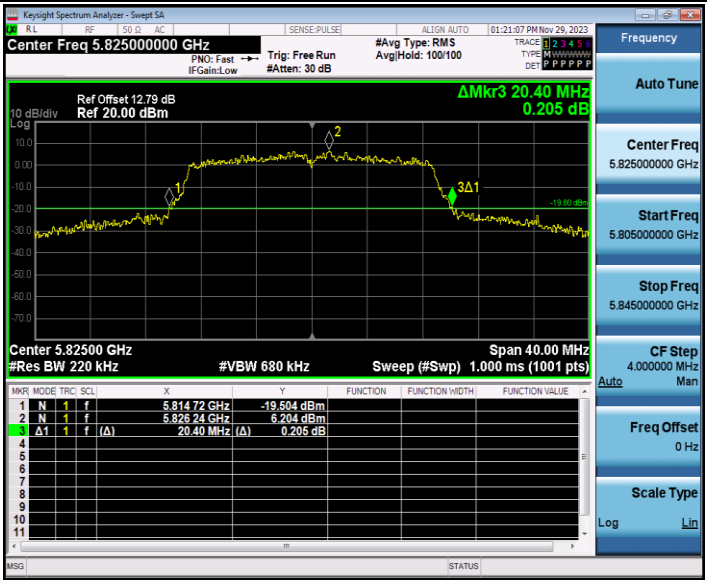
11AC20SISO_Ant1_5580



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



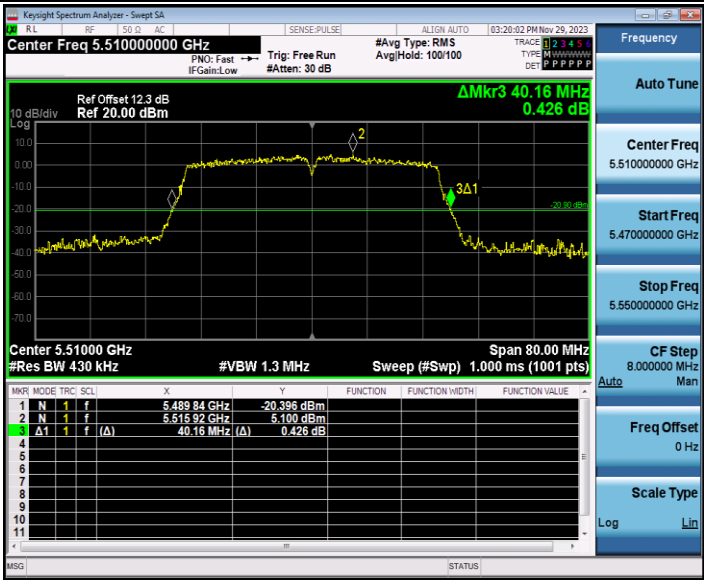
11AC40SISO_Ant1_5190



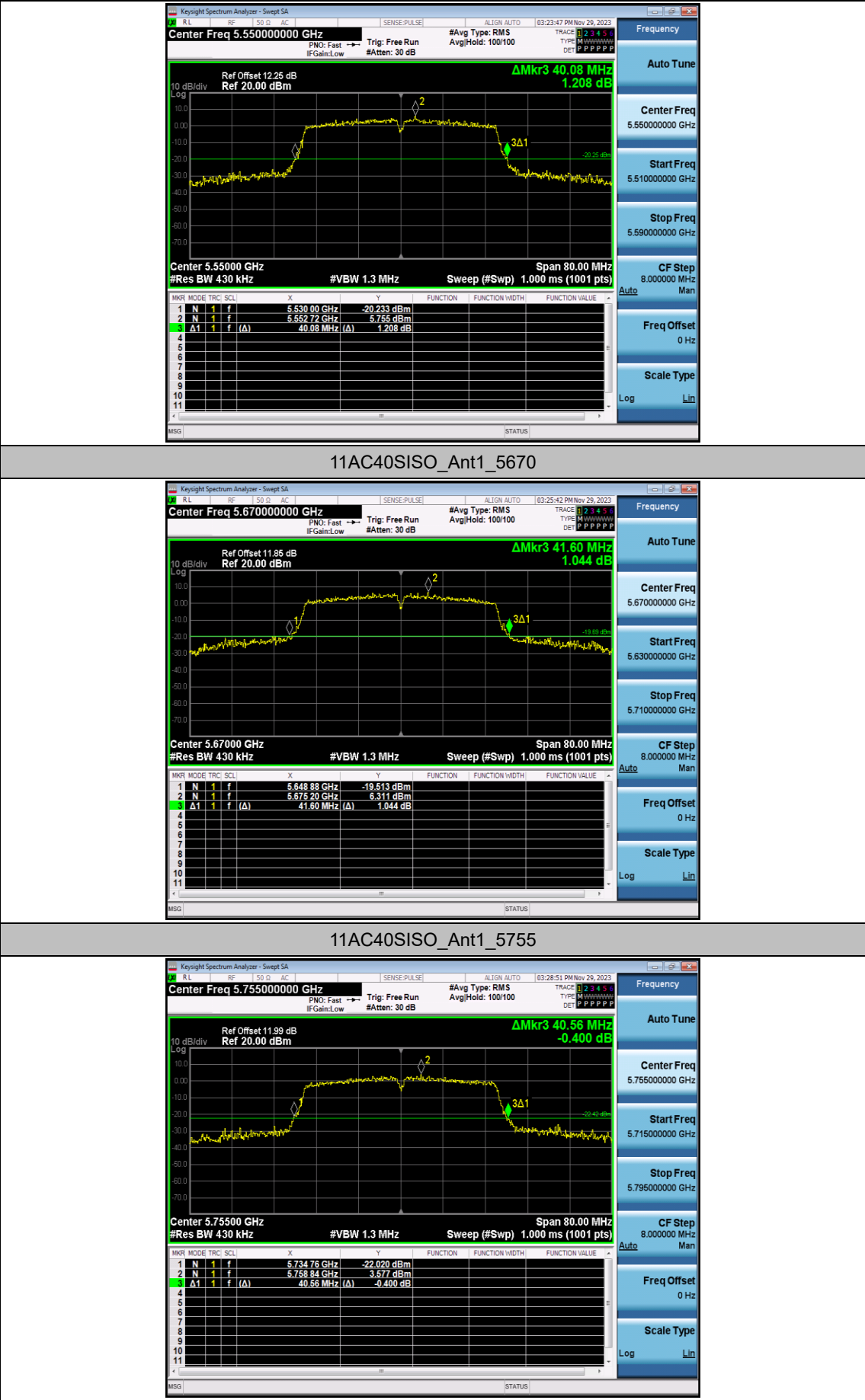
11AC40SISO_Ant1_5310



11AC40SISO_Ant1_5510



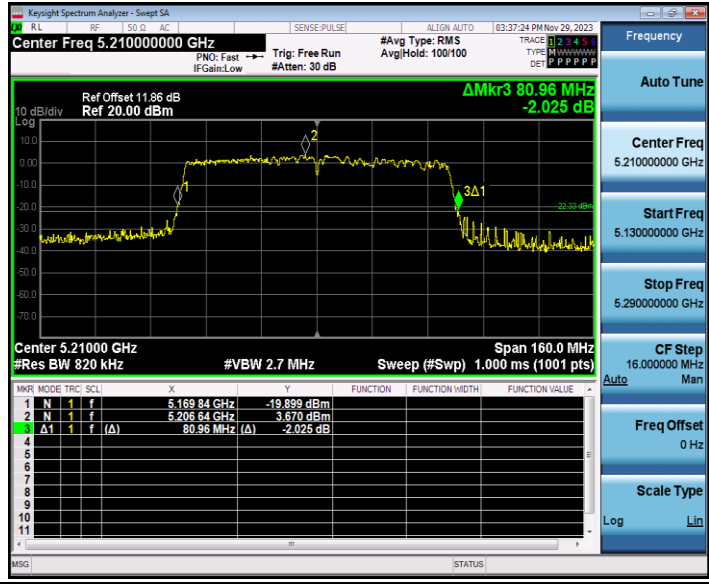
11AC40SISO_Ant1_5550



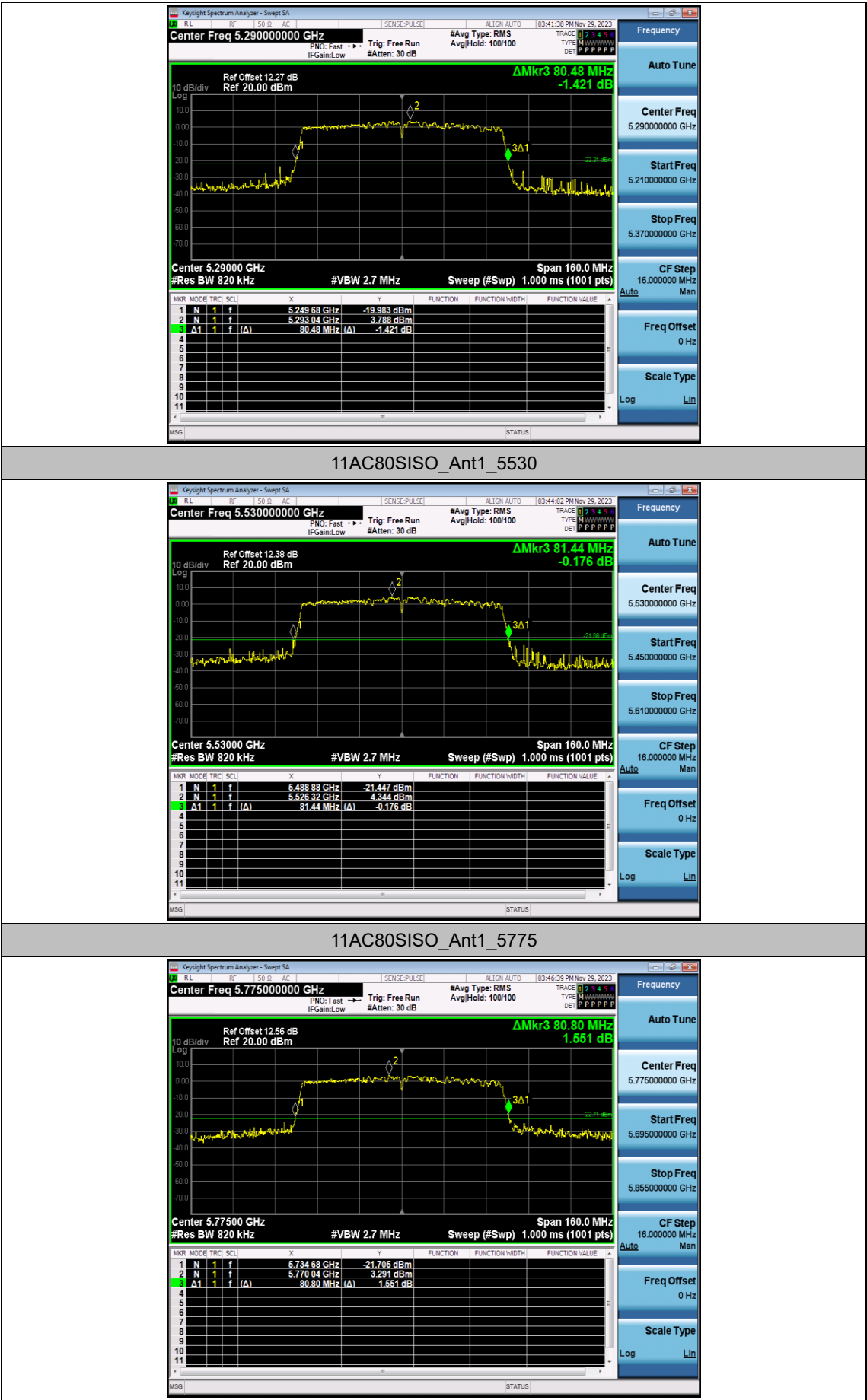
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5290

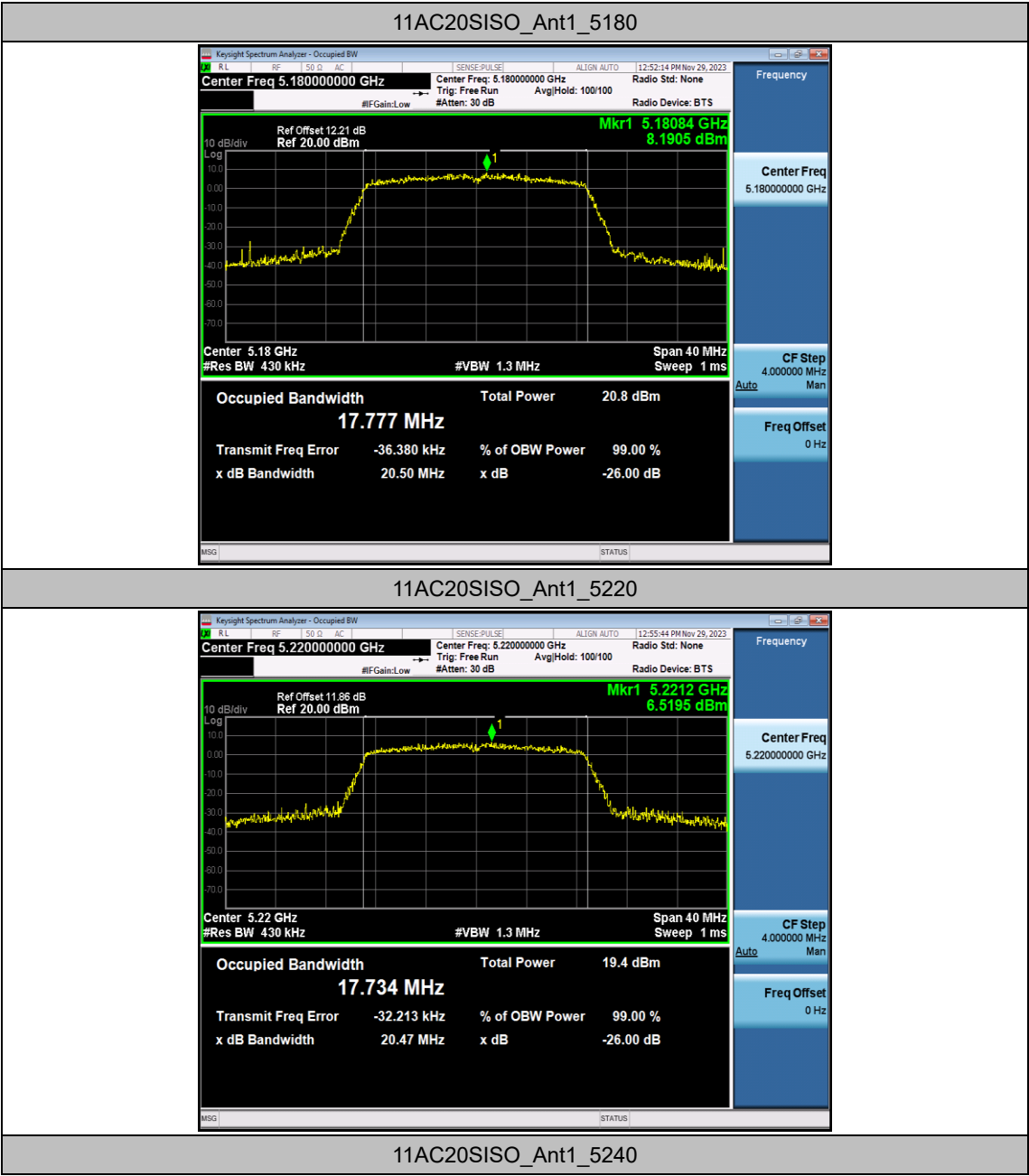


Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AC20SISO	Ant1	5180	17.777	5171.075	5188.852	---	---
		5220	17.734	5211.101	5228.835	---	---
		5240	17.728	5231.140	5248.868	---	---
		5260	17.811	5251.015	5268.826	---	---
		5300	17.798	5291.085	5308.883	---	---
		5320	17.752	5311.066	5328.818	---	---
		5500	17.696	5491.121	5508.817	---	---
		5580	17.830	5571.058	5588.888	---	---
		5700	17.768	5691.070	5708.838	---	---
		5745	17.767	5736.088	5753.855	---	---
		5785	17.756	5776.100	5793.856	---	---
		5825	17.871	5816.063	5833.934	---	---
11AC40SISO	Ant1	5190	36.114	5171.949	5208.063	---	---
		5230	36.149	5211.945	5248.094	---	---
		5270	36.214	5251.901	5288.115	---	---
		5310	36.003	5292.050	5328.053	---	---
		5510	36.216	5491.909	5528.125	---	---
		5550	36.216	5531.897	5568.113	---	---
		5670	36.324	5651.830	5688.154	---	---
		5755	36.163	5736.951	5773.114	---	---
		5795	36.071	5776.958	5813.029	---	---
11AC80SISO	Ant1	5210	75.515	5172.169	5247.684	---	---
		5290	75.486	5252.330	5327.816	---	---
		5530	75.335	5492.302	5567.637	---	---
		5775	75.278	5737.360	5812.638	---	---

Test Graphs



11AC20SISO_Ant1_5220

KeySight Spectrum Analyzer - Occupied BW

Center Freq 5.220000000 GHz

Center Freq: 5.220000000 GHz

Trig: Free Run

Avg/Hold: 100/100

Radio Std: None

Radio Device: BTS

Ref Offset 11.86 dB

Ref 20.00 dBm

Mkr1 5.2212 GHz

6.5195 dBm

10 dB/div

Log

Center 5.22 GHz

#Res BW 430 kHz

#VBW 1.3 MHz

Span 40 MHz

Sweep 1 ms

Occupied Bandwidth

17.734 MHz

Total Power

19.4 dBm

Transmit Freq Error

-32.213 kHz

% of OBW Power

99.00 %

x dB Bandwidth

20.47 MHz

x dB

-26.00 dB

MSG

STATUS

Frequency

Center Freq

5.220000000 GHz

CF Step

4.000000 MHz

Auto

Man

Freq Offset

0 Hz

11AC20SISO_Ant1_5240