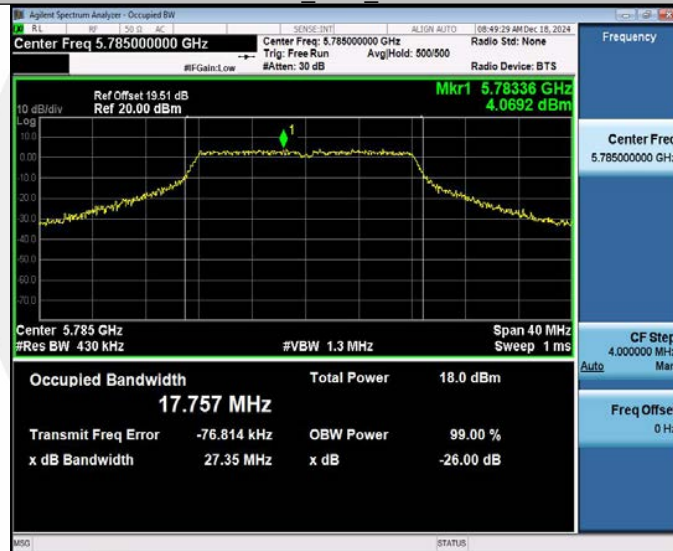


11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



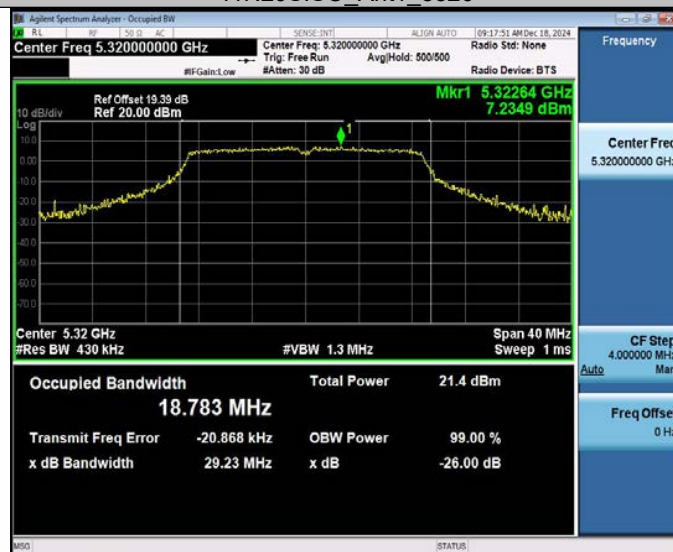
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



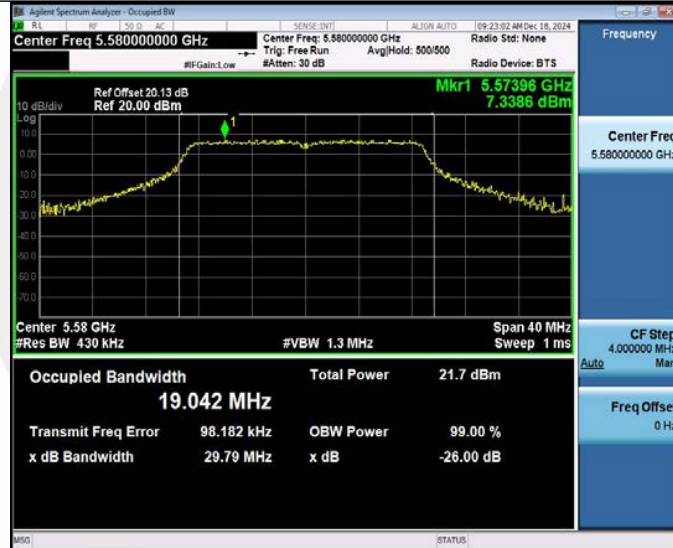
11N20SISO_Ant1_5320



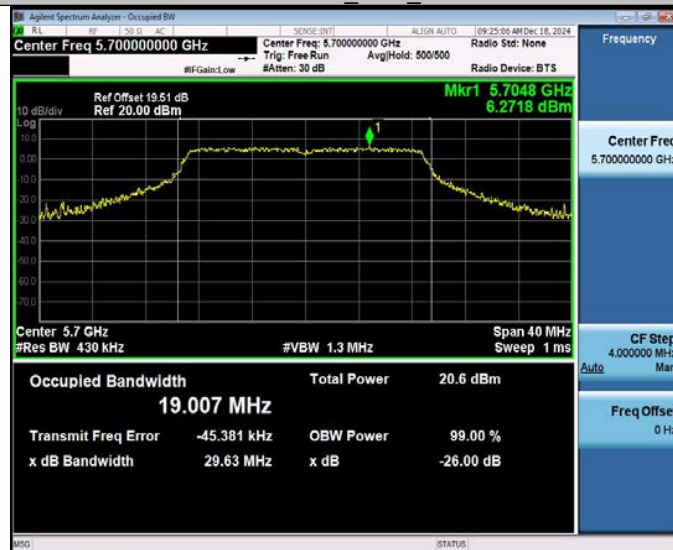
11N20SISO_Ant1_5500



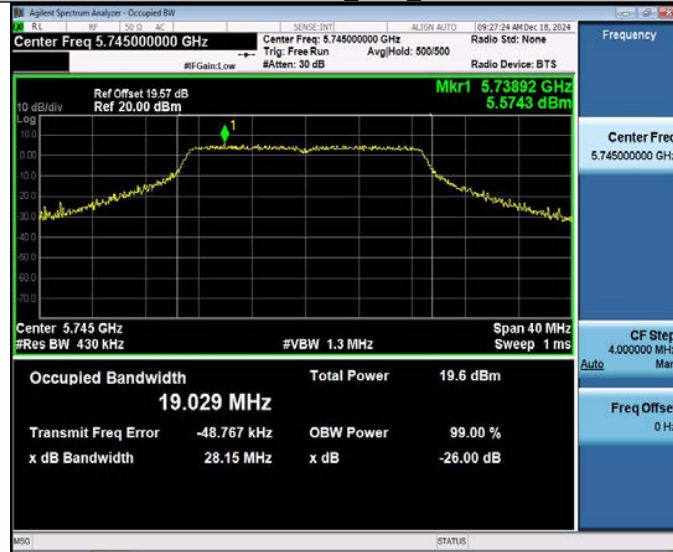
11N20SISO_Ant1_5580



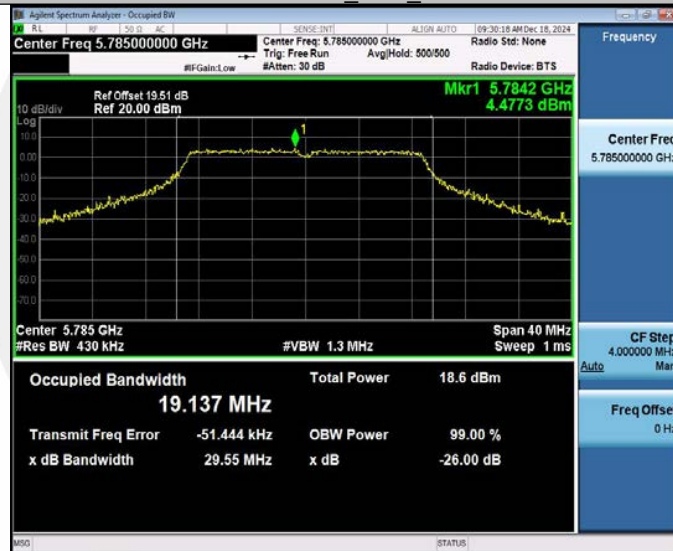
11N20SISO_Ant1_5700



11N20SISO_Ant1_5745



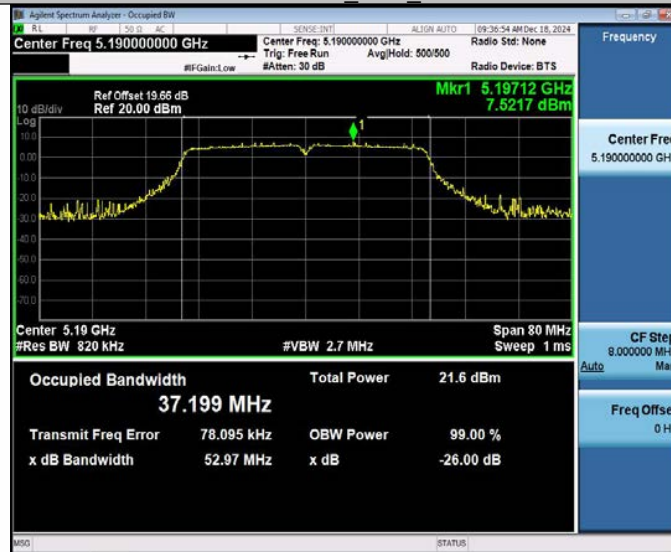
11N20SISO_Ant1_5785



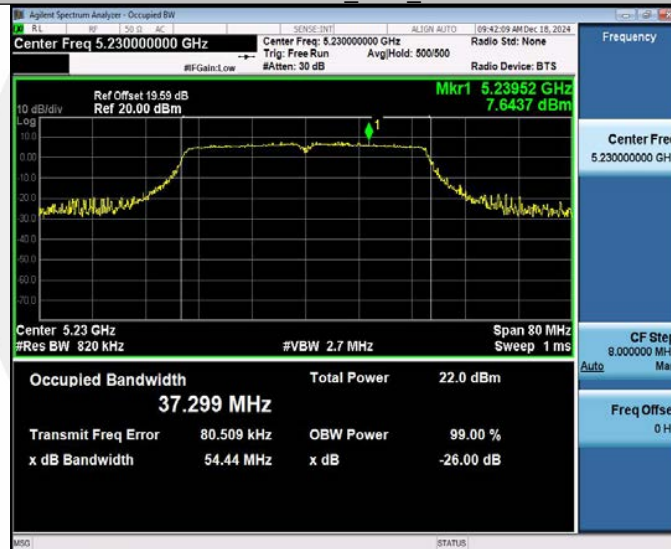
11N20SISO_Ant1_5825



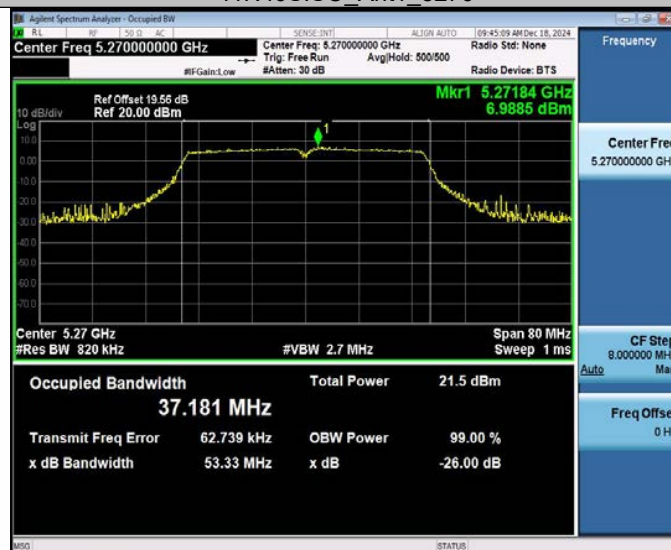
11N40SISO_Ant1_5190



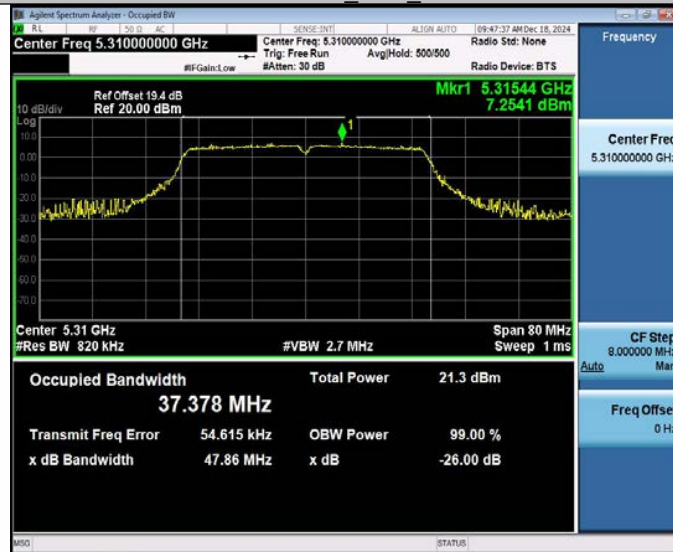
11N40SISO_Ant1_5230



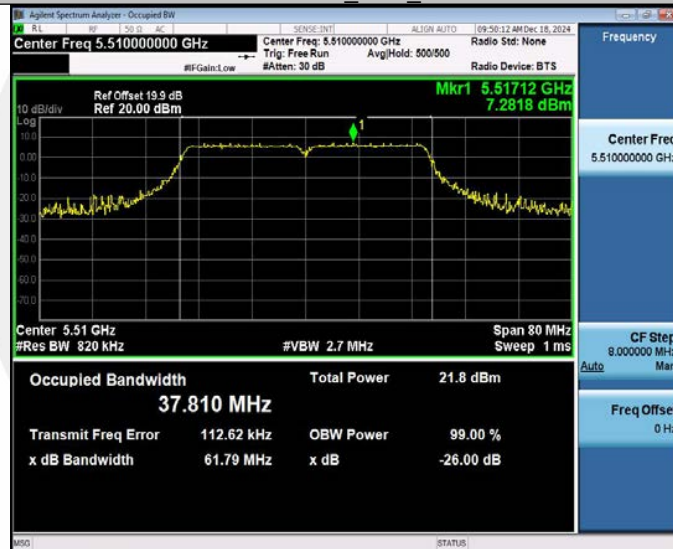
11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



11N40SISO_Ant1_5510



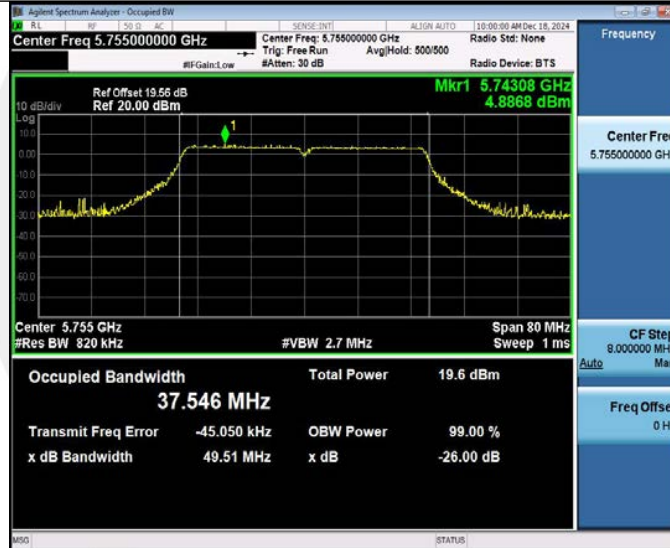
11N40SISO_Ant1_5550



11N40SISO_Ant1_5670



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5260



11AC20SISO_Ant1_5280



11AC20SISO_Ant1_5320



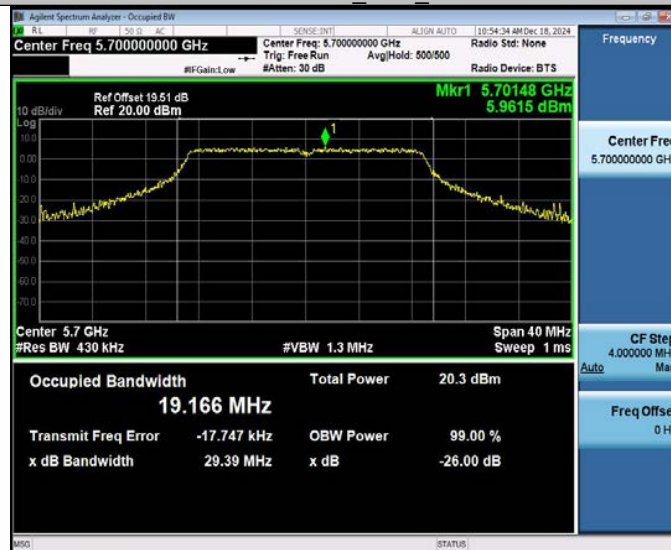
11AC20SISO_Ant1_5500



11AC20SISO_Ant1_5580



11AC20SISO_Ant1_5700



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



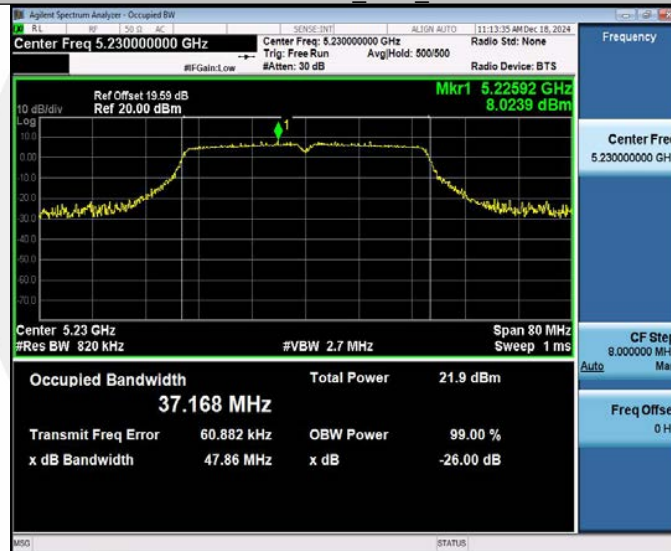
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190



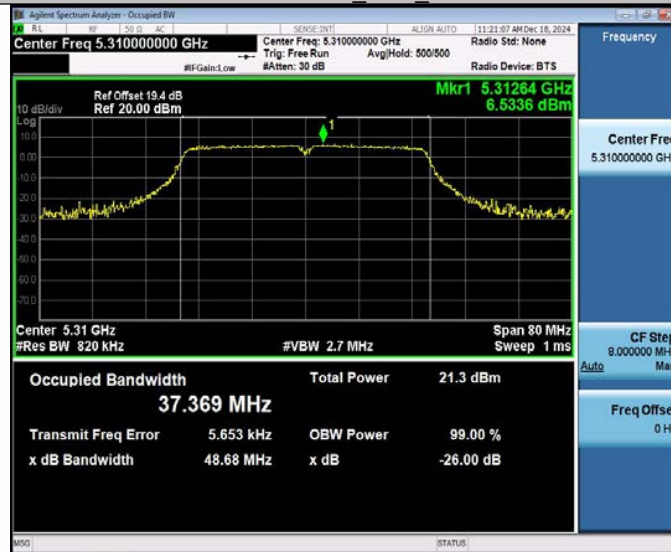
11AC40SISO_Ant1_5230



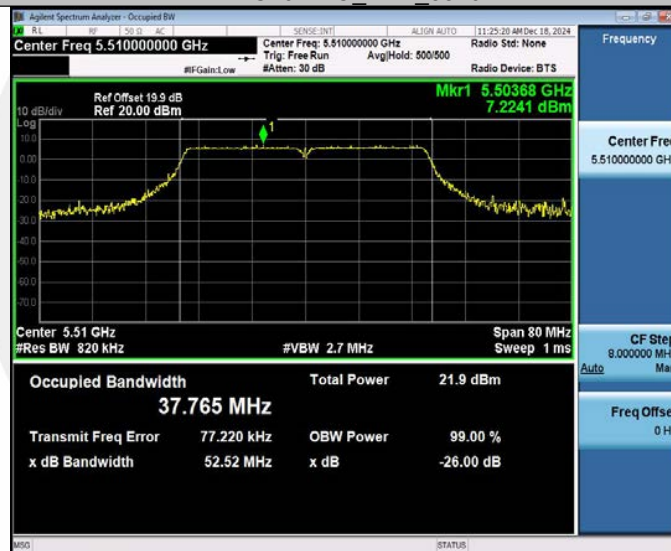
11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



11AC40SISO_Ant1_5510



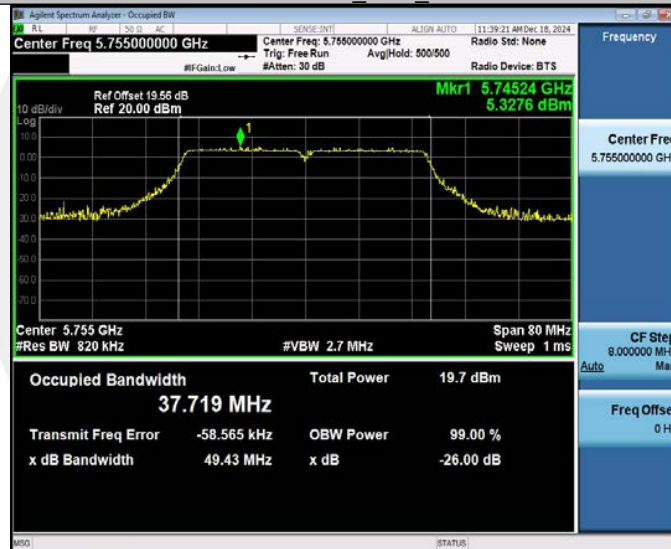
11AC40SISO_Ant1_5550



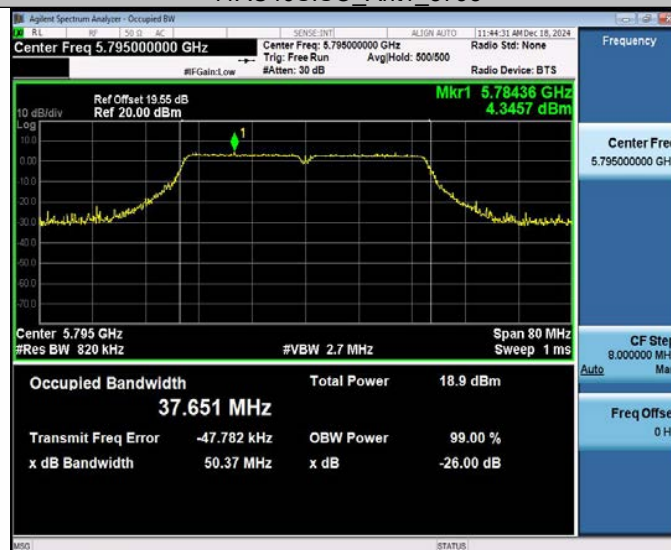
11AC40SISO_Ant1_5670



11AC40SISO_Ant1_5755



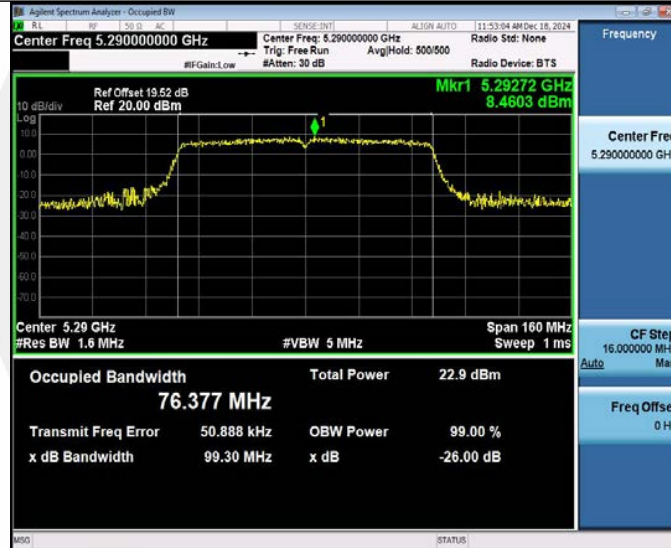
11AC40SISO_Ant1_5795



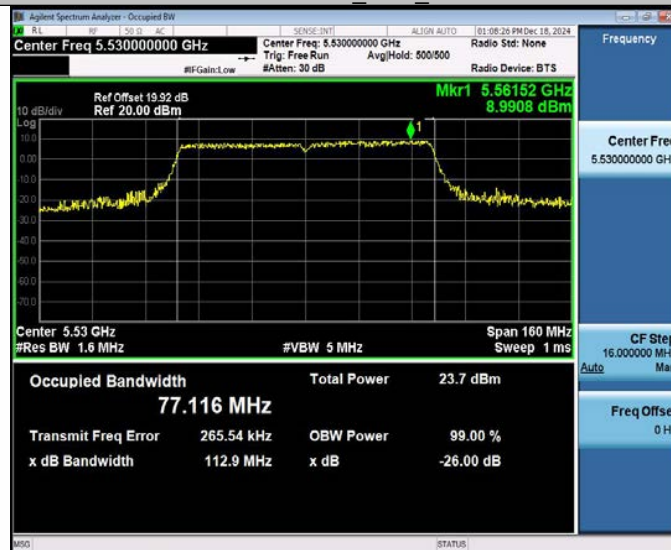
11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5290



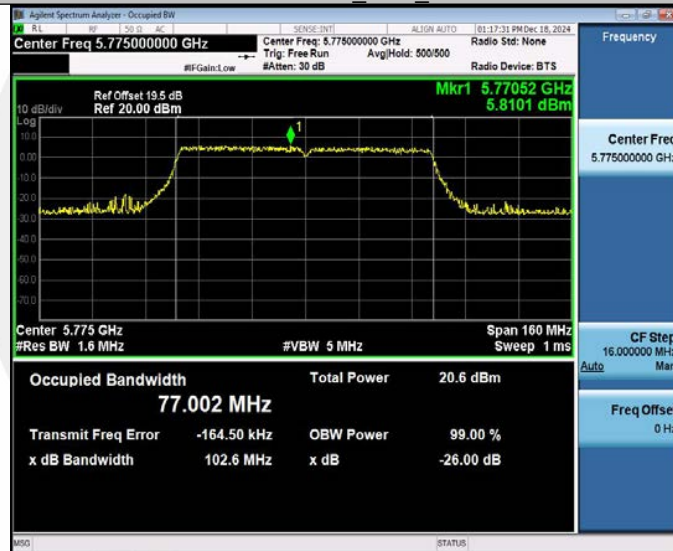
11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610



11AC80SISO_Ant1_5775



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



11AX20SISO_Ant1_5260



11AX20SISO_Ant1_5280



11AX20SISO_Ant1_5320



11AX20SISO_Ant1_5500



11AX20SISO_Ant1_5580



11AX20SISO_Ant1_5700



11AX20SISO_Ant1_5745



11AX20SISO_Ant1_5785



11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5190



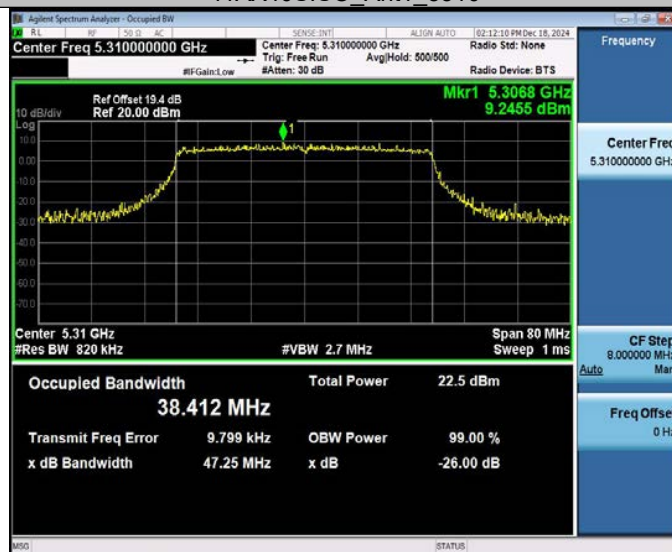
11AX40SISO_Ant1_5230



11AX40SISO_Ant1_5270



11AX40SISO_Ant1_5310



11AX40SISO_Ant1_5510



11AX40SISO_Ant1_5550



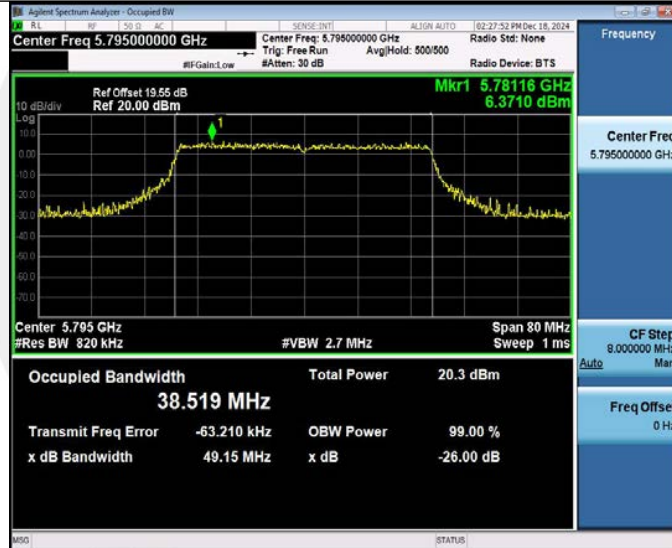
11AX40SISO_Ant1_5670



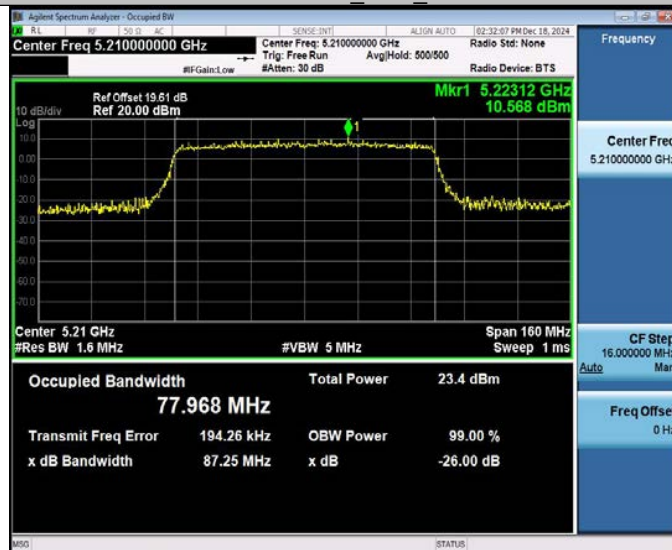
11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



11AX80SISO_Ant1_5210



11AX80SISO_Ant1_5290



11AX80SISO_Ant1_5530



11AX80SISO_Ant1_5610





8.2 MAXIMUM CONDUCTED OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
According to FCC Part 15.407(a)(3) for UNII Band III
According to 789033 D02 Section II(E)
According to RSS 247, 6.2

8.2.2 Conformance Limit

FCC Limit:

■ For the band 5.15-5.25 GHz

(a)(1) (i) For an outdoor access point, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) For an indoor access point, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For client devices, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(a) (2) The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3) The maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations

IC Limit:

■ Frequency band 5150-5250 MHz

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.

■ Frequency band 5250-5350 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

■ Frequency bands 5470-5600 MHz and 5650-5725 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

■ Frequency band 5725-5850 MHz

The maximum conducted output power shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

8.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.2.4 Test Procedure

The maximum average conducted output power can be measured using Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

- The Transmitter output (antenna port) was connected to the power meter.
- Turn on the EUT and power meter and then record the power value.
- Repeat above procedures on all channels needed to be tested.

8.2.5 Test Results

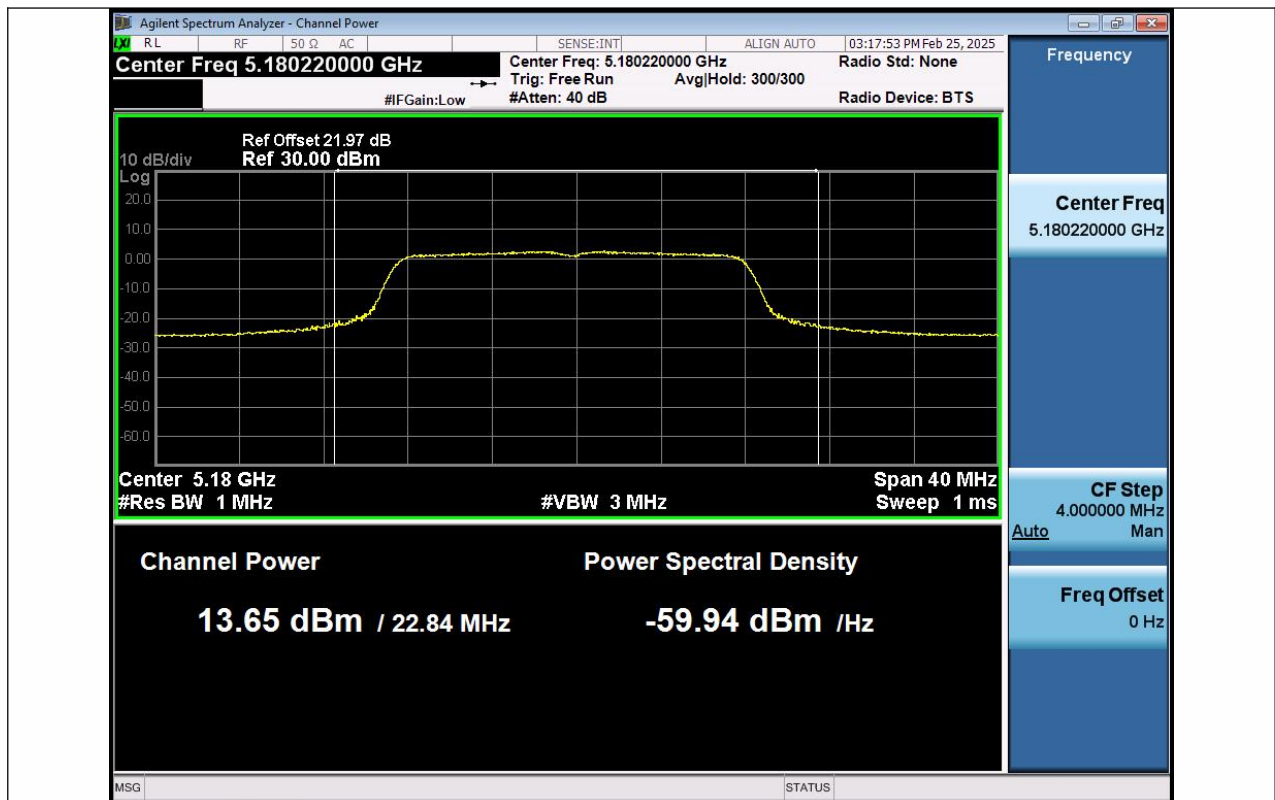
Temperature:	23.4°C
Relative Humidity:	46%
ATM Pressure:	1011 mbar

Note: N/A

Test Mode	Antenna	Frequency[MHz]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11A	Ant1	5180	2.38	13.65	≤23.98	0.00	13.65	---	PASS
11A	Ant1	5200	2.38	13.67	≤23.98	0.00	13.67	---	PASS
11A	Ant1	5240	2.38	13.32	≤23.98	0.00	13.32	---	PASS
11A	Ant1	5260	2.38	10.86	≤23.98	0.00	10.86	---	PASS
11A	Ant1	5280	2.39	10.60	≤23.98	0.00	10.60	---	PASS
11A	Ant1	5320	2.39	9.77	≤23.98	0.00	9.77	---	PASS
11A	Ant1	5500	2.38	11.60	≤23.98	0.00	11.60	---	PASS
11A	Ant1	5580	2.39	10.66	≤23.98	0.00	10.66	---	PASS
11A	Ant1	5700	2.39	8.50	≤23.98	0.00	8.50	---	PASS
11A	Ant1	5745	2.39	6.21	≤30.00	0.00	6.21	---	PASS
11A	Ant1	5785	2.39	5.17	≤30.00	0.00	5.17	---	PASS
11A	Ant1	5825	2.39	4.59	≤30.00	0.00	4.59	---	PASS
11N20SIS O	Ant1	5180	0.79	13.23	≤23.98	0.00	13.23	---	PASS
11N20SIS O	Ant1	5200	0.79	13.54	≤23.98	0.00	13.54	---	PASS
11N20SIS O	Ant1	5240	0.80	13.10	≤23.98	0.00	13.10	---	PASS
11N20SIS O	Ant1	5260	0.80	10.50	≤23.98	0.00	10.50	---	PASS
11N20SIS O	Ant1	5280	0.79	10.22	≤23.98	0.00	10.22	---	PASS
11N20SIS O	Ant1	5320	0.80	9.95	≤23.98	0.00	9.95	---	PASS
11N20SIS O	Ant1	5500	0.83	12.03	≤23.98	0.00	12.03	---	PASS
11N20SIS O	Ant1	5580	0.86	11.54	≤23.98	0.00	11.54	---	PASS
11N20SIS O	Ant1	5700	0.90	9.36	≤23.98	0.00	9.36	---	PASS
11N20SIS O	Ant1	5745	0.82	6.16	≤30.00	0.00	6.16	---	PASS
11N20SIS O	Ant1	5785	0.79	5.07	≤30.00	0.00	5.07	---	PASS
11N20SIS O	Ant1	5825	0.80	4.30	≤30.00	0.00	4.30	---	PASS
11N40SIS O	Ant1	5190	0.82	13.53	≤23.98	0.00	13.53	---	PASS
11N40SIS O	Ant1	5230	0.82	13.07	≤23.98	0.00	13.07	---	PASS
11N40SIS O	Ant1	5270	0.82	10.96	≤23.98	0.00	10.96	---	PASS
11N40SIS O	Ant1	5310	0.83	9.13	≤23.98	0.00	9.13	---	PASS
11N40SIS O	Ant1	5510	0.82	12.43	≤23.98	0.00	12.43	---	PASS
11N40SIS O	Ant1	5550	0.82	13.52	≤23.98	0.00	13.52	---	PASS
11N40SIS O	Ant1	5670	0.82	10.49	≤23.98	0.00	10.49	---	PASS
11N40SIS O	Ant1	5755	0.82	6.09	≤30.00	0.00	6.09	---	PASS
11N40SIS O	Ant1	5795	0.83	4.77	≤30.00	0.00	4.77	---	PASS
11AC20SI SO	Ant1	5180	0.79	13.45	≤23.98	0.00	13.45	---	PASS
11AC20SI SO	Ant1	5200	0.79	13.33	≤23.98	0.00	13.33	---	PASS
11AC20SI	Ant1	5240	0.79	13.03	≤23.98	0.00	13.03	---	PASS

SO									
11AC20SI SO	Ant1	5260	0.80	11.02	≤23.98	0.00	11.02	---	PASS
11AC20SI SO	Ant1	5280	0.86	10.88	≤23.98	0.00	10.88	---	PASS
11AC20SI SO	Ant1	5320	0.79	9.72	≤23.98	0.00	9.72	---	PASS
11AC20SI SO	Ant1	5500	0.79	12.04	≤23.98	0.00	12.04	---	PASS
11AC20SI SO	Ant1	5580	0.79	11.29	≤23.98	0.00	11.29	---	PASS
11AC20SI SO	Ant1	5700	0.79	9.06	≤23.98	0.00	9.06	---	PASS
11AC20SI SO	Ant1	5745	0.78	6.07	≤30.00	0.00	6.07	---	PASS
11AC20SI SO	Ant1	5785	0.79	4.99	≤30.00	0.00	4.99	---	PASS
11AC20SI SO	Ant1	5825	0.78	4.25	≤30.00	0.00	4.25	---	PASS
11AC40SI SO	Ant1	5190	0.81	13.73	≤23.98	0.00	13.73	---	PASS
11AC40SI SO	Ant1	5230	0.83	13.16	≤23.98	0.00	13.16	---	PASS
11AC40SI SO	Ant1	5270	0.82	8.88	≤23.98	0.00	8.88	---	PASS
11AC40SI SO	Ant1	5310	0.82	9.46	≤23.98	0.00	9.46	---	PASS
11AC40SI SO	Ant1	5510	0.83	12.37	≤23.98	0.00	12.37	---	PASS
11AC40SI SO	Ant1	5550	0.83	12.50	≤23.98	0.00	12.50	---	PASS
11AC40SI SO	Ant1	5670	0.83	10.39	≤23.98	0.00	10.39	---	PASS
11AC40SI SO	Ant1	5755	0.82	6.51	≤30.00	0.00	6.51	---	PASS
11AC40SI SO	Ant1	5795	0.82	5.39	≤30.00	0.00	5.39	---	PASS
11AC80SI SO	Ant1	5210	0.88	13.18	≤23.98	0.00	13.18	---	PASS
11AC80SI SO	Ant1	5290	0.88	10.34	≤23.98	0.00	10.34	---	PASS
11AC80SI SO	Ant1	5530	0.88	12.33	≤23.98	0.00	12.33	---	PASS
11AC80SI SO	Ant1	5610	0.88	11.45	≤23.98	0.00	11.45	---	PASS
11AC80SI SO	Ant1	5775	0.88	5.48	≤30.00	0.00	5.48	---	PASS
11AX20SI SO	Ant1	5180	1.01	13.41	≤23.98	0.00	13.41	---	PASS
11AX20SI SO	Ant1	5200	1.01	13.22	≤23.98	0.00	13.22	---	PASS
11AX20SI SO	Ant1	5240	1.01	13.11	≤23.98	0.00	13.11	---	PASS
11AX20SI SO	Ant1	5260	1.02	10.79	≤23.98	0.00	10.79	---	PASS
11AX20SI SO	Ant1	5280	1.01	10.75	≤23.98	0.00	10.75	---	PASS
11AX20SI SO	Ant1	5320	1.01	9.70	≤23.98	0.00	9.70	---	PASS
11AX20SI SO	Ant1	5500	1.02	12.09	≤23.98	0.00	12.09	---	PASS
11AX20SI	Ant1	5580	1.01	11.44	≤23.98	0.00	11.44	---	PASS

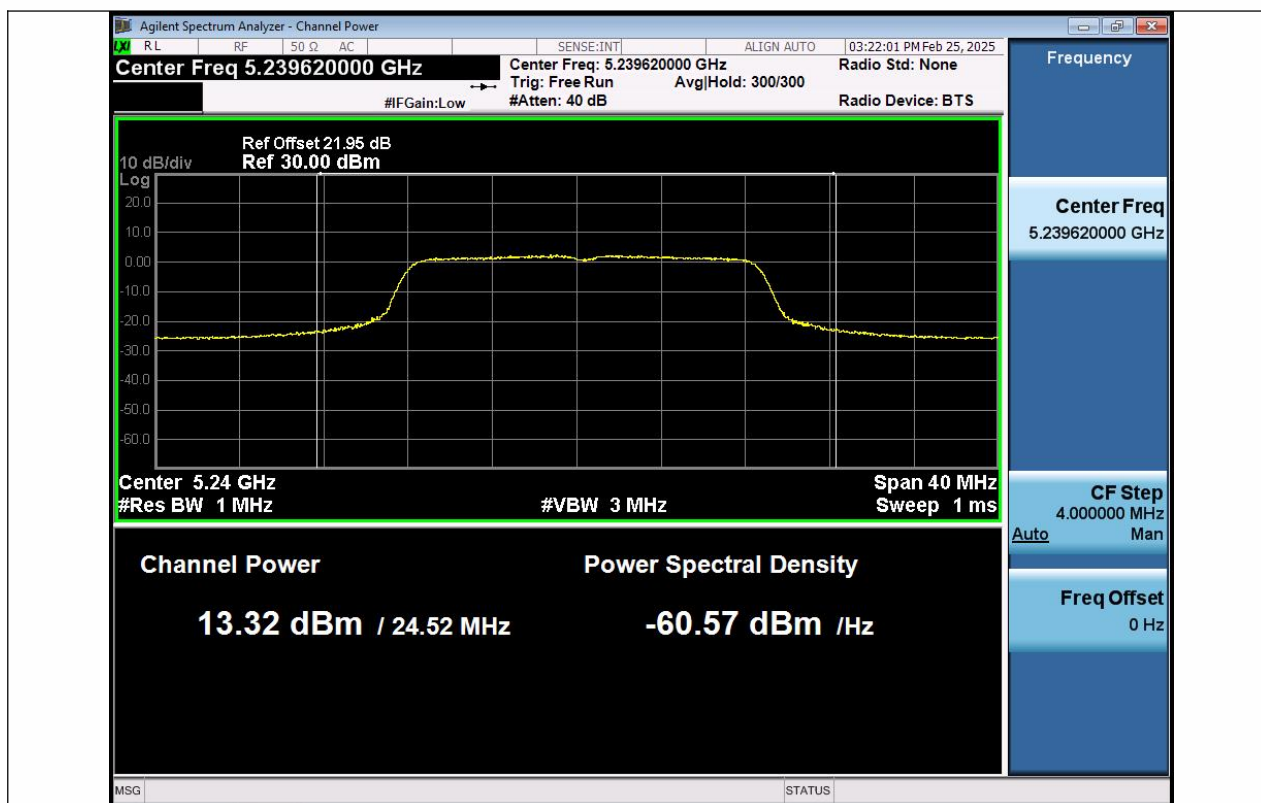
SO									
11AX20SI SO	Ant1	5700	1.02	9.04	≤23.98	0.00	9.04	---	PASS
11AX20SI SO	Ant1	5745	1.02	6.16	≤30.00	0.00	6.16	---	PASS
11AX20SI SO	Ant1	5785	1.01	5.13	≤30.00	0.00	5.13	---	PASS
11AX20SI SO	Ant1	5825	1.01	4.37	≤30.00	0.00	4.37	---	PASS
11AX40SI SO	Ant1	5190	1.02	13.43	≤23.98	0.00	13.43	---	PASS
11AX40SI SO	Ant1	5230	1.02	13.09	≤23.98	0.00	13.09	---	PASS
11AX40SI SO	Ant1	5270	1.02	10.78	≤23.98	0.00	10.78	---	PASS
11AX40SI SO	Ant1	5310	1.02	9.88	≤23.98	0.00	9.88	---	PASS
11AX40SI SO	Ant1	5510	1.02	12.10	≤23.98	0.00	12.10	---	PASS
11AX40SI SO	Ant1	5550	1.01	12.91	≤23.98	0.00	12.91	---	PASS
11AX40SI SO	Ant1	5670	1.02	10.31	≤23.98	0.00	10.31	---	PASS
11AX40SI SO	Ant1	5755	1.01	5.81	≤30.00	0.00	5.81	---	PASS
11AX40SI SO	Ant1	5795	1.02	4.87	≤30.00	0.00	4.87	---	PASS
11AX80SI SO	Ant1	5210	1.06	13.10	≤23.98	0.00	13.10	---	PASS
11AX80SI SO	Ant1	5290	1.06	10.36	≤23.98	0.00	10.36	---	PASS
11AX80SI SO	Ant1	5530	1.06	12.37	≤23.98	0.00	12.37	---	PASS
11AX80SI SO	Ant1	5610	1.06	11.32	≤23.98	0.00	11.32	---	PASS
11AX80SI SO	Ant1	5775	1.05	5.33	≤30.00	0.00	5.33	---	PASS



11A-Ant1-5180-PASS



11A-Ant1-5200-PASS



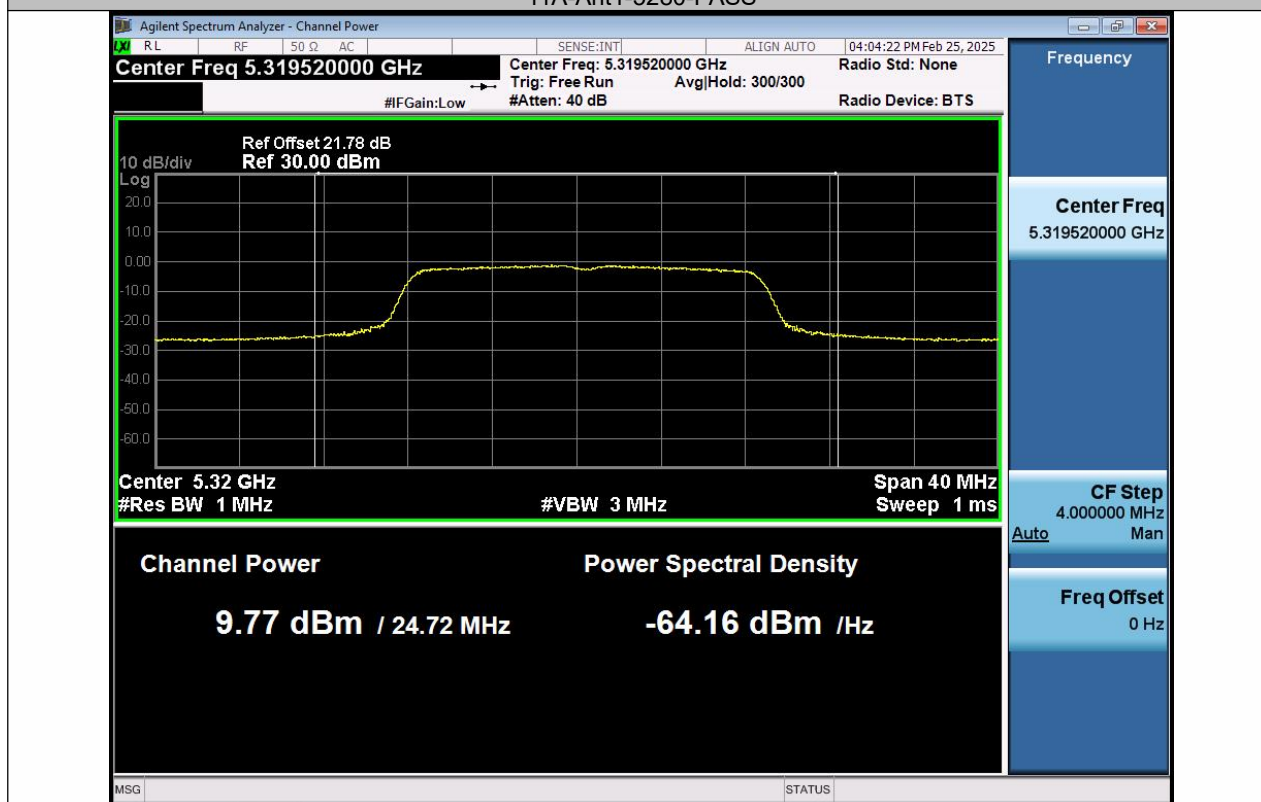
11A-Ant1-5240-PASS



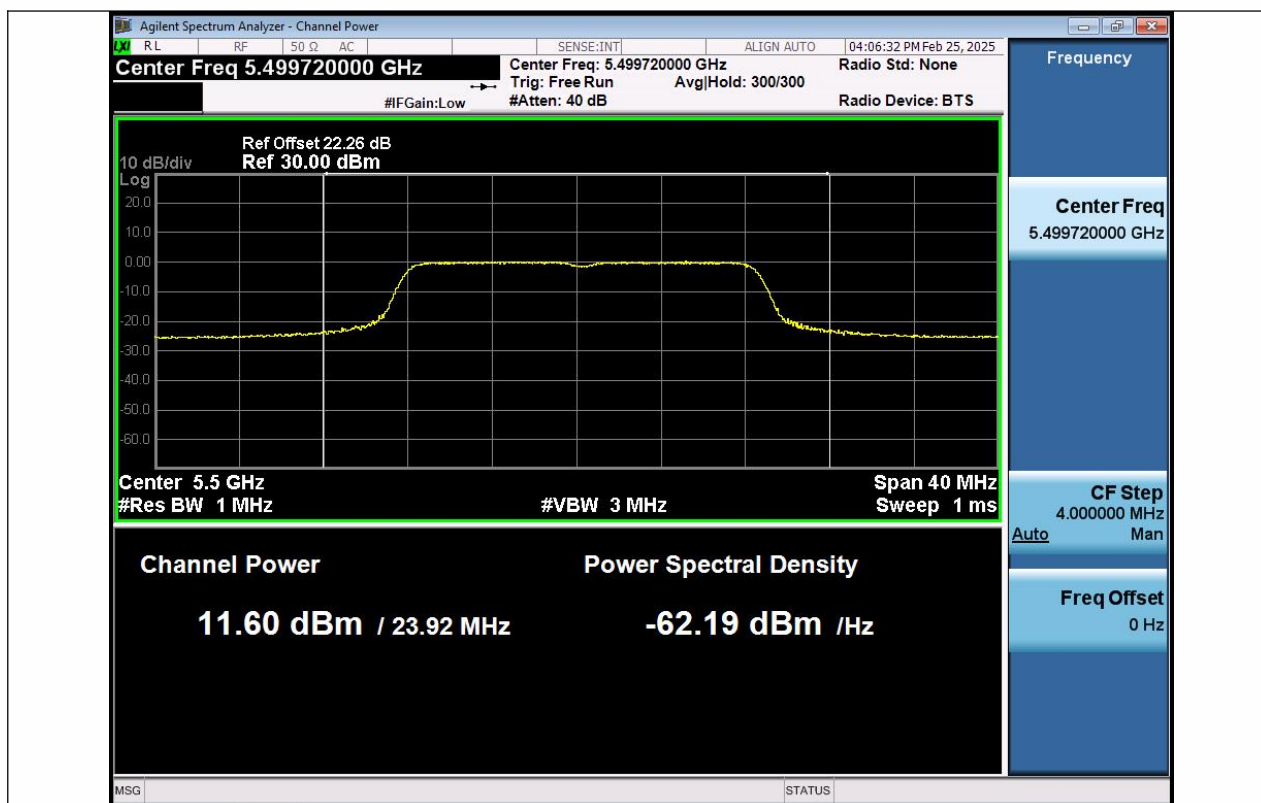
11A-Ant1-5260-PASS



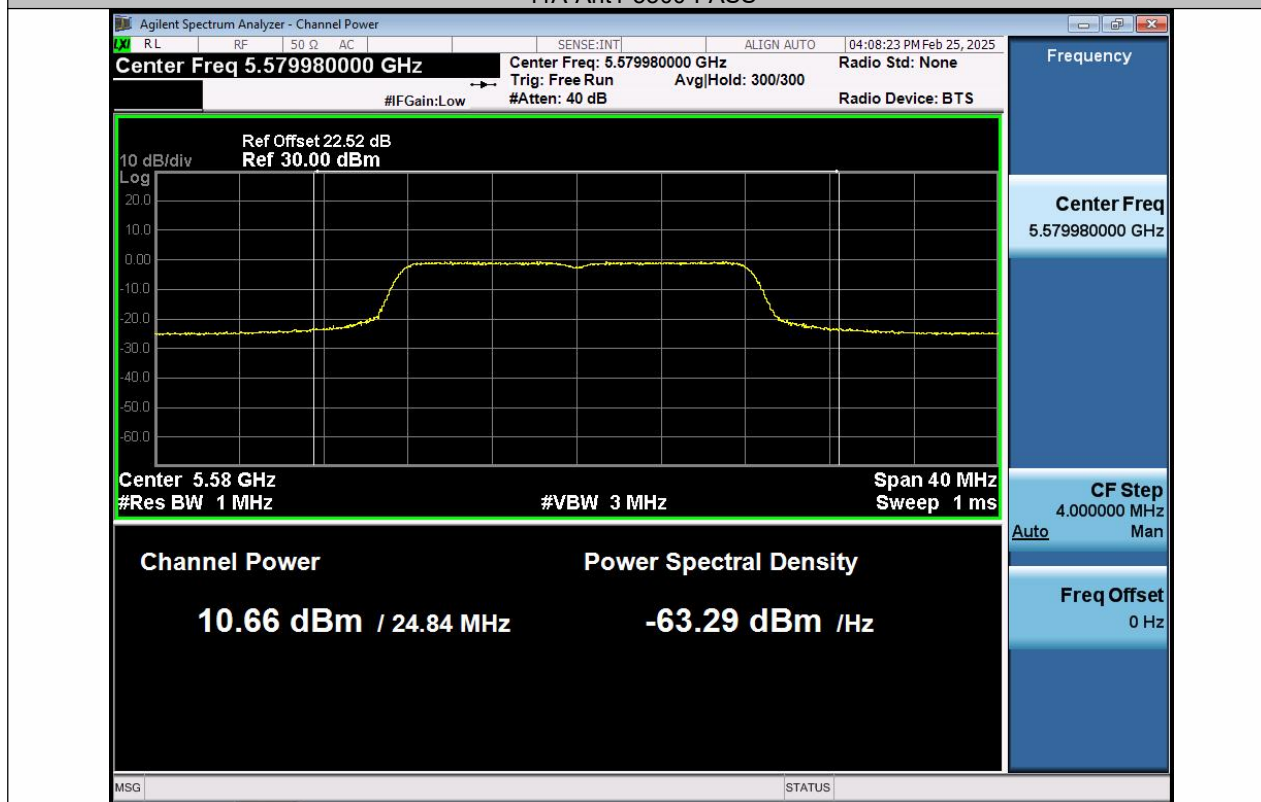
11A-Ant1-5280-PASS



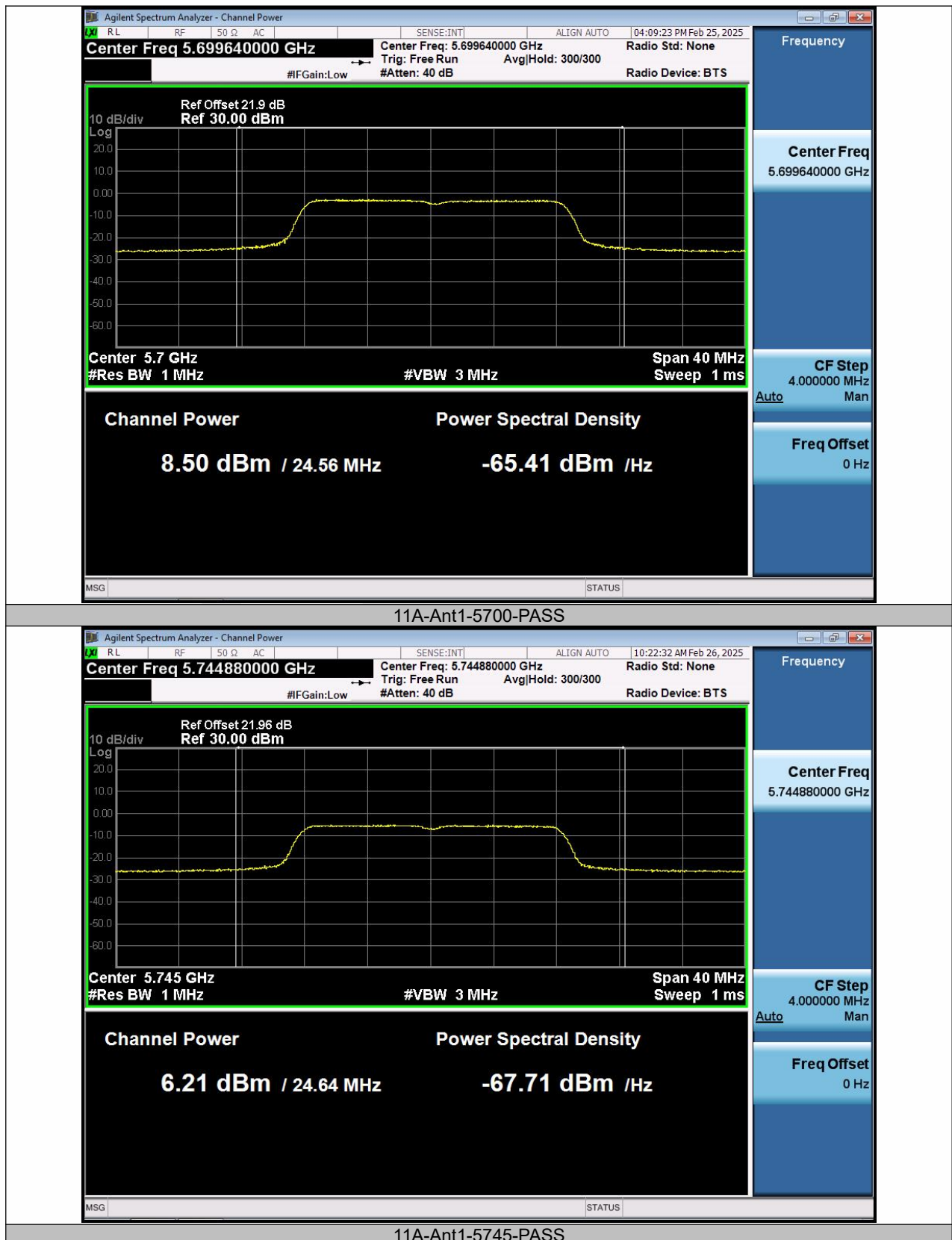
11A-Ant1-5320-PASS



11A-Ant1-5500-PASS



11A-Ant1-5580-PASS







11N20SISO-Ant1-5180-PASS



11N20SISO-Ant1-5200-PASS