

11AC40MIMO	Ant0	5270	TPC_H	12.49	98.39	0.07	12.56	≤23.98	PASS
11AC40MIMO	Ant1	5270	TPC_H	11.34	98.79	0.05	11.39	≤23.98	PASS
11AC40MIMO	total	5270	TPC_H	---	---	---	15.02	≤23.98	PASS
11AC40MIMO	Ant0	5270	TPC_L	5.60	98.39	0.07	5.67	≤23.98	PASS
11AC40MIMO	Ant1	5270	TPC_L	3.83	98.79	0.05	3.88	≤23.98	PASS
11AC40MIMO	total	5270	TPC_L	---	---	---	7.88	≤23.98	PASS
11AC40MIMO	Ant0	5310	TPC_H	11.72	98.38	0.07	11.79	≤23.98	PASS
11AC40MIMO	Ant1	5310	TPC_H	11.34	98.38	0.07	11.41	≤23.98	PASS
11AC40MIMO	total	5310	TPC_H	---	---	---	14.61	≤23.98	PASS
11AC40MIMO	Ant0	5310	TPC_L	4.74	98.38	0.07	4.81	≤23.98	PASS
11AC40MIMO	Ant1	5310	TPC_L	3.68	98.38	0.07	3.75	≤23.98	PASS
11AC40MIMO	total	5310	TPC_L	---	---	---	7.32	≤23.98	PASS
11AC40MIMO	Ant0	5510	TPC_H	10.60	98.38	0.07	10.67	≤23.98	PASS
11AC40MIMO	Ant1	5510	TPC_H	11.91	98.38	0.07	11.98	≤23.98	PASS
11AC40MIMO	total	5510	TPC_H	---	---	---	14.38	≤23.98	PASS
11AC40MIMO	Ant0	5510	TPC_L	3.56	98.38	0.07	3.63	≤23.98	PASS
11AC40MIMO	Ant1	5510	TPC_L	5.01	98.38	0.07	5.08	≤23.98	PASS
11AC40MIMO	total	5510	TPC_L	---	---	---	7.43	≤23.98	PASS
11AC40MIMO	Ant0	5550	TPC_H	10.65	98.39	0.07	10.72	≤23.98	PASS
11AC40MIMO	Ant1	5550	TPC_H	11.91	98.39	0.07	11.98	≤23.98	PASS
11AC40MIMO	total	5550	TPC_H	---	---	---	14.41	≤23.98	PASS
11AC40MIMO	Ant0	5550	TPC_L	3.72	98.39	0.07	3.79	≤23.98	PASS
11AC40MIMO	Ant1	5550	TPC_L	4.87	98.39	0.07	4.94	≤23.98	PASS
11AC40MIMO	total	5550	TPC_L	---	---	---	7.41	≤23.98	PASS
11AC40MIMO	Ant0	5670	TPC_H	10.65	98.38	0.07	10.72	≤23.98	PASS
11AC40MIMO	Ant1	5670	TPC_H	12.50	98.39	0.07	12.57	≤23.98	PASS
11AC40MIMO	total	5670	TPC_H	---	---	---	14.75	≤23.98	PASS
11AC40MIMO	Ant0	5670	TPC_L	3.69	98.38	0.07	3.76	≤23.98	PASS
11AC40MIMO	Ant1	5670	TPC_L	5.36	98.39	0.07	5.43	≤23.98	PASS
11AC40MIMO	total	5670	TPC_L	---	---	---	7.69	≤23.98	PASS
11AC40MIMO	Ant0	5710_UNII-2C	TPC_H	10.56	95.51	0.20	10.76	≤23.98	PASS
11AC40MIMO	Ant1	5710_UNII-2C	TPC_H	11.65	96.63	0.15	11.80	≤23.98	PASS
11AC40MIMO	total	5710_UNII-2C	TPC_H	---	---	---	14.32	≤23.98	PASS
11AC40MIMO	Ant0	5710_UNII-2C	TPC_L	3.36	95.51	0.20	3.56	≤23.98	PASS
11AC40MIMO	Ant1	5710_UNII-2C	TPC_L	4.48	96.63	0.15	4.63	≤23.98	PASS
11AC40MIMO	total	5710_UNII-2C	TPC_L	---	---	---	7.14	≤23.98	PASS
11AC40MIMO	Ant0	5710_UNII-3	TPC_H	-1.01	95.51	0.20	-0.81	≤30.00	PASS
11AC40MIMO	Ant1	5710_UNII-3	TPC_H	-0.03	96.63	0.15	0.12	≤30.00	PASS
11AC40MIMO	total	5710_UNII-3	TPC_H	---	---	---	2.69	≤30.00	PASS

11AC40MIMO	Ant0	5710_UNII-3	TPC_L	-7.27	95.51	0.20	-7.07	≤30.00	PASS
11AC40MIMO	Ant1	5710_UNII-3	TPC_L	-6.66	96.63	0.15	-6.51	≤30.00	PASS
11AC40MIMO	total	5710_UNII-3	TPC_L	---	---	---	-3.77	≤30.00	PASS
11AC40MIMO	Ant0	5755	NA	12.27	98.39	0.07	12.34	≤30.00	PASS
11AC40MIMO	Ant1	5755	NA	12.74	98.38	0.07	12.81	≤30.00	PASS
11AC40MIMO	total	5755	NA	---	---	---	15.59	≤30.00	PASS
11AC40MIMO	Ant0	5795	NA	12.25	98.39	0.07	12.32	≤30.00	PASS
11AC40MIMO	Ant1	5795	NA	12.73	98.38	0.07	12.80	≤30.00	PASS
11AC40MIMO	total	5795	NA	---	---	---	15.58	≤30.00	PASS
11AC80SISO	Ant0	5210	NA	13.49	93.75	0.28	13.77	≤30.00	PASS
11AC80SISO	Ant1	5210	NA	12.94	96.61	0.15	13.09	≤30.00	PASS
11AC80SISO	Ant0	5290	TPC_H	13.34	93.65	0.28	13.62	≤23.98	PASS
11AC80SISO	Ant1	5290	TPC_H	12.59	96.61	0.15	12.74	≤23.98	PASS
11AC80SISO	Ant0	5290	TPC_L	5.86	93.65	0.28	6.14	≤23.98	PASS
11AC80SISO	Ant1	5290	TPC_L	4.95	96.61	0.15	5.10	≤23.98	PASS
11AC80SISO	Ant0	5530	TPC_H	11.52	93.65	0.28	11.80	≤23.98	PASS
11AC80SISO	Ant1	5530	TPC_H	12.85	95.80	0.19	13.04	≤23.98	PASS
11AC80SISO	Ant0	5530	TPC_L	4.74	93.65	0.28	5.02	≤23.98	PASS
11AC80SISO	Ant1	5530	TPC_L	5.90	95.80	0.19	6.09	≤23.98	PASS
11AC80SISO	Ant0	5610	TPC_H	12.51	93.75	0.28	12.79	≤23.98	PASS
11AC80SISO	Ant1	5610	TPC_H	13.69	97.46	0.11	13.80	≤23.98	PASS
11AC80SISO	Ant0	5610	TPC_L	5.56	93.75	0.28	5.84	≤23.98	PASS
11AC80SISO	Ant1	5610	TPC_L	6.53	97.46	0.11	6.64	≤23.98	PASS
11AC80SISO	Ant0	5690_UNII-2C	TPC_H	11.80	93.65	0.28	12.08	≤23.98	PASS
11AC80SISO	Ant1	5690_UNII-2C	TPC_H	13.35	96.61	0.15	13.50	≤23.98	PASS
11AC80SISO	Ant0	5690_UNII-2C	TPC_L	4.60	93.65	0.28	4.88	≤23.98	PASS
11AC80SISO	Ant1	5690_UNII-2C	TPC_L	5.97	96.61	0.15	6.12	≤23.98	PASS
11AC80SISO	Ant0	5690_UNII-3	TPC_H	-2.69	93.65	0.28	-2.41	≤30.00	PASS
11AC80SISO	Ant1	5690_UNII-3	TPC_H	-1.13	96.61	0.15	-0.98	≤30.00	PASS
11AC80SISO	Ant0	5690_UNII-3	TPC_L	-9.72	93.65	0.28	-9.44	≤30.00	PASS
11AC80SISO	Ant1	5690_UNII-3	TPC_L	-8.37	96.61	0.15	-8.22	≤30.00	PASS
11AC80SISO	Ant0	5775	NA	13.92	95.24	0.21	14.13	≤30.00	PASS
11AC80SISO	Ant1	5775	NA	14.05	97.46	0.11	14.16	≤30.00	PASS
11AC80MIMO	Ant0	5210	NA	11.65	93.65	0.28	11.93	≤30.00	PASS
11AC80MIMO	Ant1	5210	NA	10.95	95.24	0.21	11.16	≤30.00	PASS
11AC80MIMO	total	5210	NA	---	---	---	14.57	≤30.00	PASS
11AC80MIMO	Ant0	5290	TPC_H	11.25	95.24	0.21	11.46	≤23.98	PASS
11AC80MIMO	Ant1	5290	TPC_H	10.73	93.65	0.28	11.01	≤23.98	PASS
11AC80MIMO	total	5290	TPC_H	---	---	---	14.25	≤23.98	PASS

11AC80MIMO	Ant0	5290	TPC_L	4.32	95.24	0.21	4.53	≤23.98	PASS
11AC80MIMO	Ant1	5290	TPC_L	3.02	93.65	0.28	3.30	≤23.98	PASS
11AC80MIMO	total	5290	TPC_L	---	---	---	6.97	≤23.98	PASS
11AC80MIMO	Ant0	5530	TPC_H	9.50	95.24	0.21	9.71	≤23.98	PASS
11AC80MIMO	Ant1	5530	TPC_H	11.13	95.24	0.21	11.34	≤23.98	PASS
11AC80MIMO	total	5530	TPC_H	---	---	---	13.61	≤23.98	PASS
11AC80MIMO	Ant0	5530	TPC_L	3.00	95.24	0.21	3.21	≤23.98	PASS
11AC80MIMO	Ant1	5530	TPC_L	3.97	95.24	0.21	4.18	≤23.98	PASS
11AC80MIMO	total	5530	TPC_L	---	---	---	6.73	≤23.98	PASS
11AC80MIMO	Ant0	5610	TPC_H	10.42	95.24	0.21	10.63	≤23.98	PASS
11AC80MIMO	Ant1	5610	TPC_H	11.83	93.75	0.28	12.11	≤23.98	PASS
11AC80MIMO	total	5610	TPC_H	---	---	---	14.44	≤23.98	PASS
11AC80MIMO	Ant0	5610	TPC_L	3.79	95.24	0.21	4.00	≤23.98	PASS
11AC80MIMO	Ant1	5610	TPC_L	4.63	93.75	0.28	4.91	≤23.98	PASS
11AC80MIMO	total	5610	TPC_L	---	---	---	7.49	≤23.98	PASS
11AC80MIMO	Ant0	5690_UNII-2C	TPC_H	9.56	91.11	0.40	9.96	≤23.98	PASS
11AC80MIMO	Ant1	5690_UNII-2C	TPC_H	11.04	91.30	0.40	11.44	≤23.98	PASS
11AC80MIMO	total	5690_UNII-2C	TPC_H	---	---	---	13.77	≤23.98	PASS
11AC80MIMO	Ant0	5690_UNII-2C	TPC_L	2.73	91.11	0.40	3.13	≤23.98	PASS
11AC80MIMO	Ant1	5690_UNII-2C	TPC_L	3.79	91.30	0.40	4.19	≤23.98	PASS
11AC80MIMO	total	5690_UNII-2C	TPC_L	---	---	---	6.70	≤23.98	PASS
11AC80MIMO	Ant0	5690_UNII-3	TPC_H	-5.32	91.11	0.40	-4.92	≤30.00	PASS
11AC80MIMO	Ant1	5690_UNII-3	TPC_H	-4.16	91.30	0.40	-3.76	≤30.00	PASS
11AC80MIMO	total	5690_UNII-3	TPC_H	---	---	---	-1.29	≤30.00	PASS
11AC80MIMO	Ant0	5690_UNII-3	TPC_L	-12.30	91.11	0.40	-11.90	≤30.00	PASS
11AC80MIMO	Ant1	5690_UNII-3	TPC_L	-10.87	91.30	0.40	-10.47	≤30.00	PASS
11AC80MIMO	total	5690_UNII-3	TPC_L	---	---	---	-8.12	≤30.00	PASS
11AC80MIMO	Ant0	5775	NA	11.92	96.64	0.15	12.07	≤30.00	PASS
11AC80MIMO	Ant1	5775	NA	11.97	96.61	0.15	12.12	≤30.00	PASS
11AC80MIMO	total	5775	NA	---	---	---	15.11	≤30.00	PASS

**Note1:** Average power with duty factor = Average power + DC Factor

**Note2:** The Total Power =  $10 \log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)})$ .

**Note3:** The manufacturer declared the transmitter output signals is CDD mode. And  $N_{SS}=1$ . According to KDB 662911 D01 Multiple Transmitter Output v02r01 F2) f(i): If all antennas have the same gain, Directional gain =  $G_{ANT} + \text{Array Gain}$ , For power measurements on IEEE 802.11 devices.

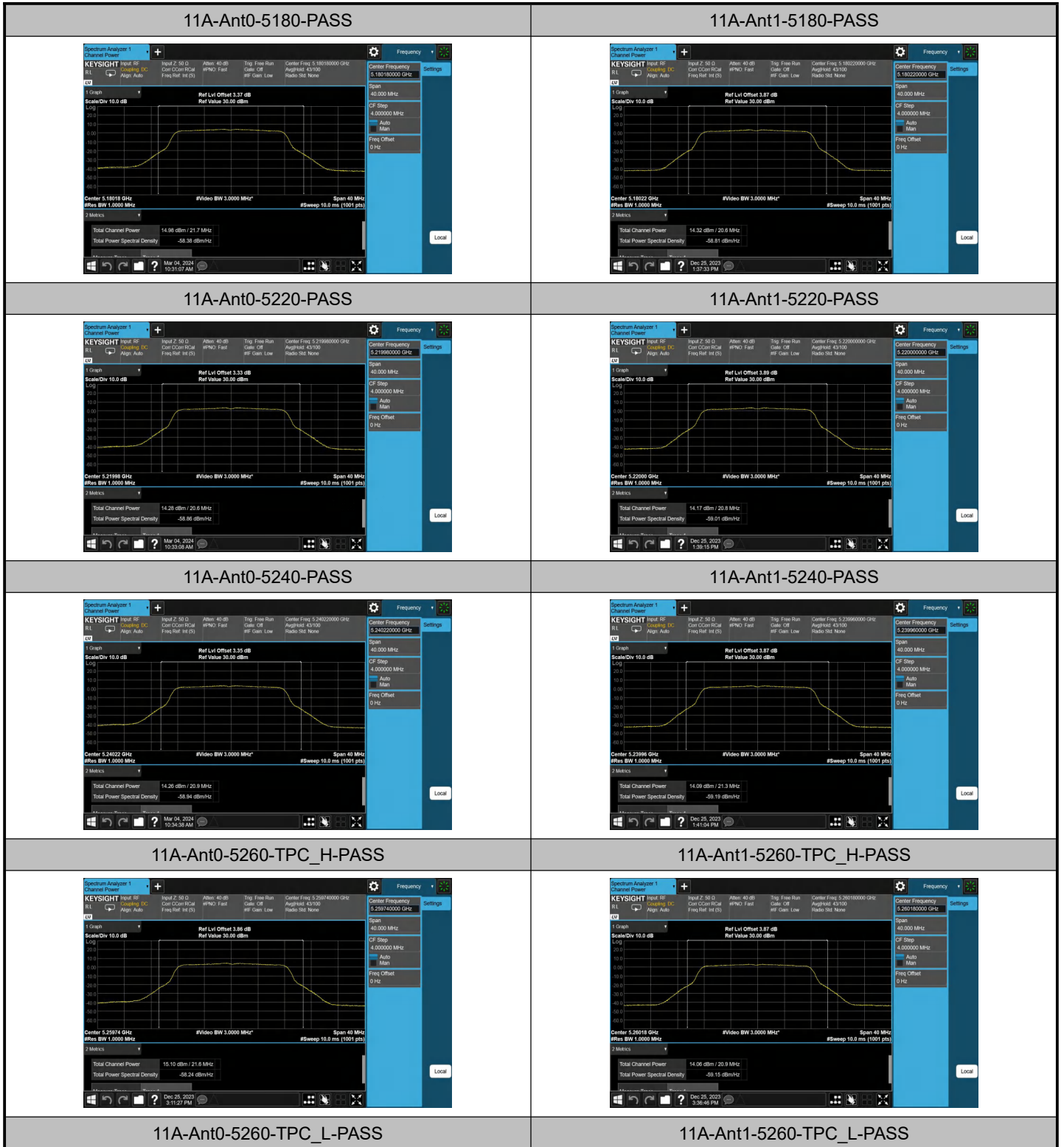
Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ ;

Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq 40$  MHz for any  $N_{ANT}$ ;

Array Gain =  $5 \log(N_{ANT}/N_{SS})$  dB or 3 dB, whichever is less, for 20-MHz channel widths with  $N_{ANT} \geq 5$ .

So directional gain =  $G_{ANT} + \text{Array Gain} = 0.40 + 0 = 0.40 < 6 \text{dBi}$ .

## Test Graphs





11A-Ant0-5300-TPC\_H-PASS



11A-Ant1-5300-TPC\_H-PASS



11A-Ant0-5300-TPC\_L-PASS



11A-Ant1-5300-TPC\_L-PASS



11A-Ant0-5320-TPC\_H-PASS



11A-Ant1-5320-TPC\_H-PASS



11A-Ant1-5320-TPC\_L-PASS



11A-Ant0-5320-TPC\_L-PASS



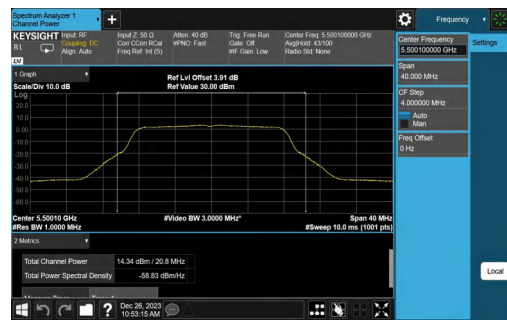
11A-Ant0-5500-TPC\_H-PASS



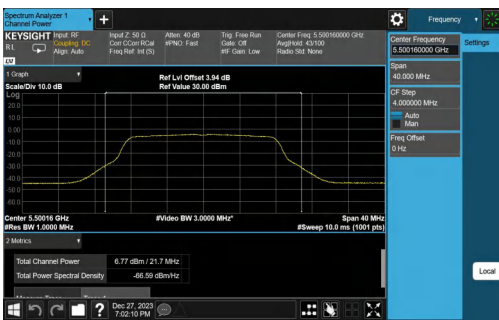
11A-Ant1-5500-TPC\_H-PASS



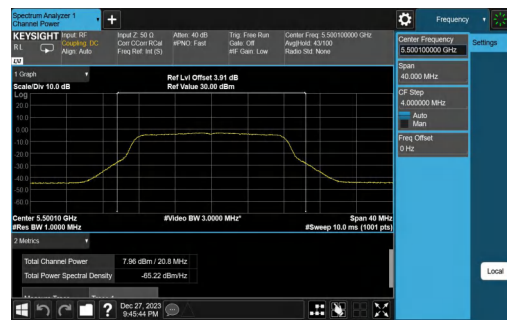
11A-Ant0-5500-TPC\_L-PASS



11A-Ant1-5500-TPC\_L-PASS



11A-Ant0-5580-TPC\_H-PASS



11A-Ant1-5580-TPC\_H-PASS



11A-Ant0-5580-TPC\_L-PASS



11A-Ant1-5580-TPC\_L-PASS



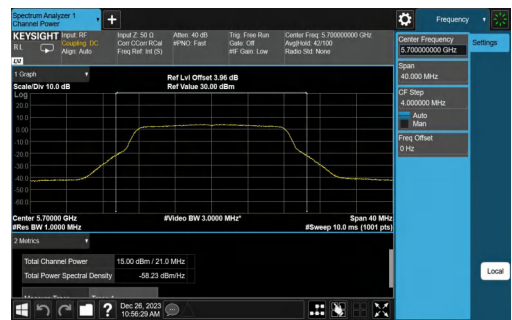
11A-Ant0-5700-TPC\_H-PASS



11A-Ant1-5700-TPC\_H-PASS



11A-Ant0-5700-TPC\_L-PASS



11A-Ant1-5700-TPC\_L-PASS



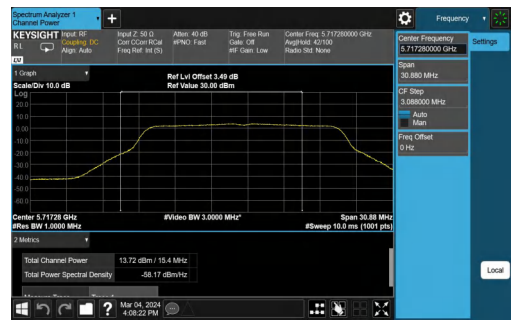
11A-Ant0-5720\_UNII-2C-TPC\_H-PASS



11A-Ant1-5720\_UNII-2C-TPC\_H-PASS



11A-Ant0-5720\_UNII-2C-TPC\_L-PASS



11A-Ant1-5720\_UNII-2C-TPC\_L-PASS



11A-Ant0-5720\_UNII-3-TPC\_H-PASS



11A-Ant1-5720\_UNII-3-TPC\_H-PASS



11A-Ant0-5720\_UNII-3-TPC\_L-PASS



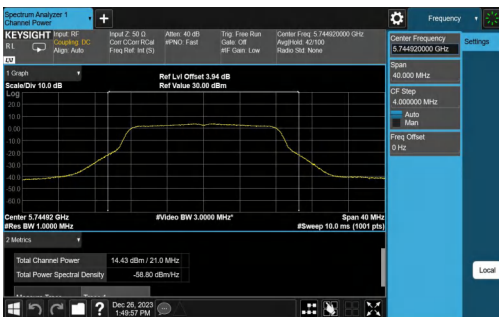
11A-Ant1-5720\_UNII-3-TPC\_L-PASS



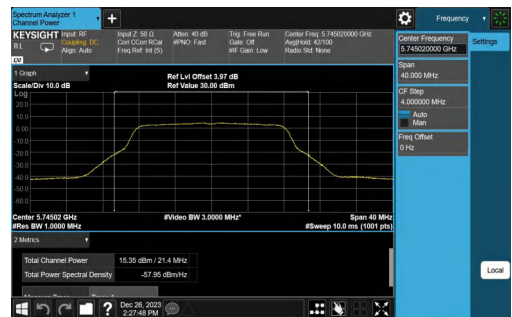
11A-Ant0-5745-PASS



11A-Ant1-5745-PASS



11A-Ant0-5785-PASS

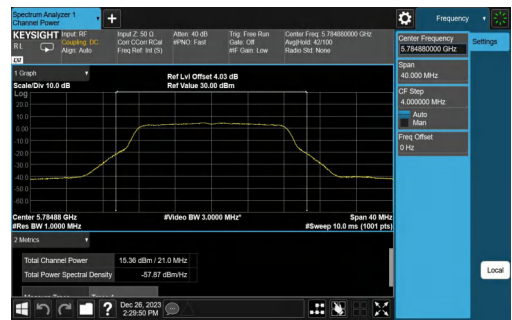


11A-Ant1-5785-PASS





11A-Ant0-5825-PASS



11A-Ant1-5825-PASS



11A-CDD-Ant0-5180-PASS



11A-CDD-Ant1-5180-PASS



11A-CDD-Ant0-5220-PASS



11A-CDD-Ant1-5220-PASS



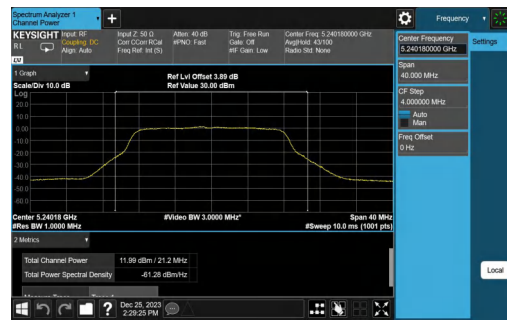
11A-CDD-Ant0-5240-PASS



11A-CDD-Ant1-5240-PASS



11A-CDD-Ant0-5260-TPC\_H-PASS



11A-CDD-Ant1-5260-TPC\_H-PASS



11A-CDD-Ant0-5260-TPC\_L-PASS



11A-CDD-Ant1-5260-TPC\_L-PASS



11A-CDD-Ant0-5300-TPC\_H-PASS



11A-CDD-Ant1-5300-TPC\_H-PASS



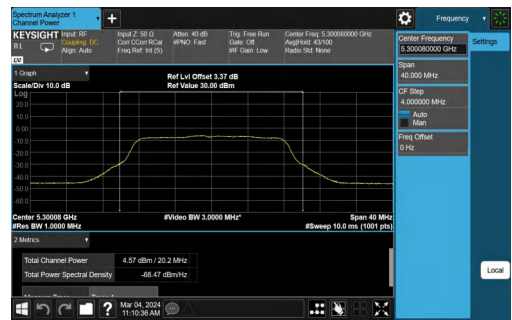
11A-CDD-Ant0-5300-TPC\_L-PASS



11A-CDD-Ant1-5300-TPC\_L-PASS



11A-CDD-Ant0-5320-TPC\_H-PASS



11A-CDD-Ant1-5320-TPC\_H-PASS



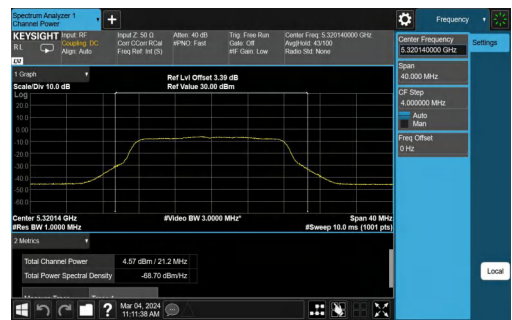
11A-CDD-Ant0-5320-TPC\_L-PASS



11A-CDD-Ant1-5320-TPC\_L-PASS



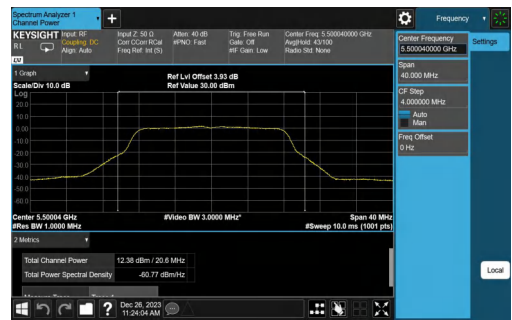
11A-CDD-Ant0-5320-TPC\_L-PASS



11A-CDD-Ant1-5320-TPC\_L-PASS



11A-CDD-Ant0-5500-TPC\_H-PASS



11A-CDD-Ant1-5500-TPC\_H-PASS



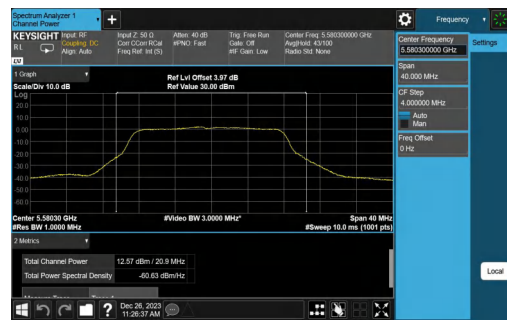
11A-CDD-Ant0-5580-TPC\_H-PASS



11A-CDD-Ant1-5580-TPC\_H-PASS



11A-CDD-Ant0-5580-TPC\_L-PASS



11A-CDD-Ant1-5580-TPC\_L-PASS



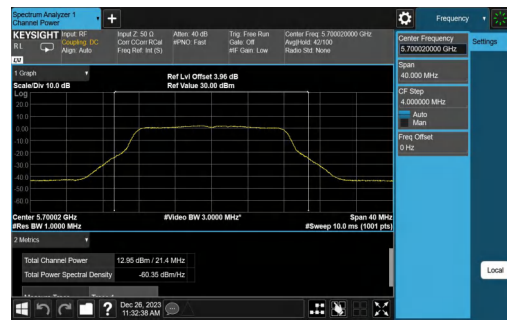
11A-CDD-Ant0-5700-TPC\_H-PASS



11A-CDD-Ant1-5700-TPC\_H-PASS



11A-CDD-Ant0-5700-TPC\_L-PASS



11A-CDD-Ant1-5700-TPC\_L-PASS



11A-CDD-Ant0-5720\_UNII-2C-TPC\_H-PASS



11A-CDD-Ant1-5720\_UNII-2C-TPC\_H-PASS



11A-CDD-Ant0-5720\_UNII-2C-TPC\_L-PASS



11A-CDD-Ant1-5720\_UNII-2C-TPC\_L-PASS



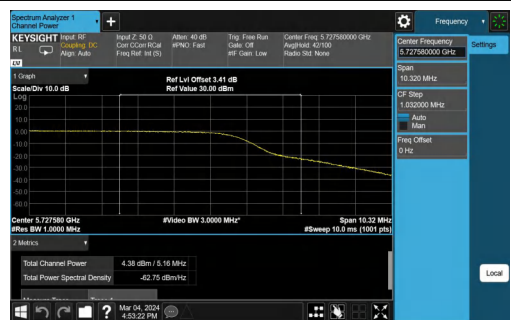
11A-CDD-Ant0-5720\_UNII-3-TPC\_H-PASS



11A-CDD-Ant1-5720\_UNII-3-TPC\_H-PASS



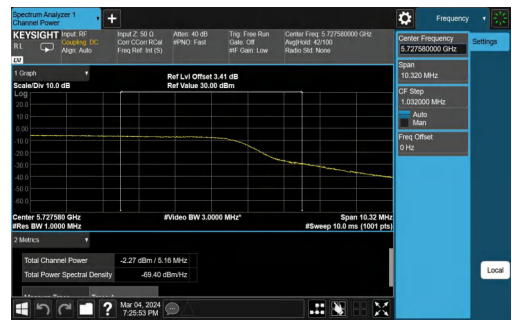
11A-CDD-Ant0-5720\_UNII-3-TPC\_L-PASS



11A-CDD-Ant1-5720\_UNII-3-TPC\_L-PASS



11A-CDD-Ant0-5745-PASS



11A-CDD-Ant1-5745-PASS



11A-CDD-Ant0-5785-PASS



11A-CDD-Ant1-5785-PASS



11A-CDD-Ant0-5825-PASS



11A-CDD-Ant1-5825-PASS



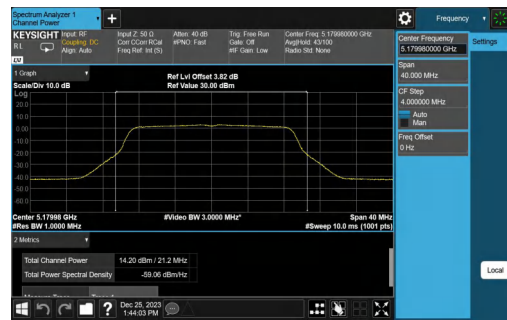
11N20SISO-Ant0-5180-PASS



11N20SISO-Ant1-5180-PASS



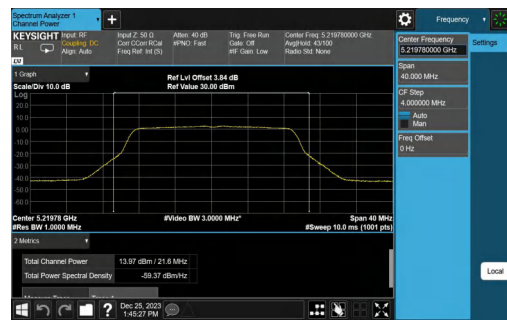
11N20SISO-Ant0-5220-PASS



11N20SISO-Ant1-5220-PASS



11N20SISO-Ant0-5240-PASS



11N20SISO-Ant1-5240-PASS



11N20SISO-Ant0-5260-TPC\_H-PASS



11N20SISO-Ant1-5260-TPC\_H-PASS



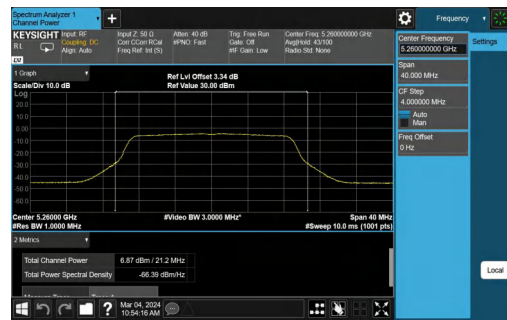
11N20SISO-Ant0-5260-TPC\_L-PASS



11N20SISO-Ant1-5260-TPC\_L-PASS



11N20SISO-Ant0-5300-TPC\_H-PASS



11N20SISO-Ant1-5300-TPC\_H-PASS



11N20SISO-Ant0-5300-TPC\_L-PASS



11N20SISO-Ant1-5300-TPC\_L-PASS



11N20SISO-Ant0-5320-TPC\_H-PASS



11N20SISO-Ant1-5320-TPC\_H-PASS



11N20SISO-Ant0-5320-TPC\_L-PASS



11N20SISO-Ant1-5320-TPC\_L-PASS