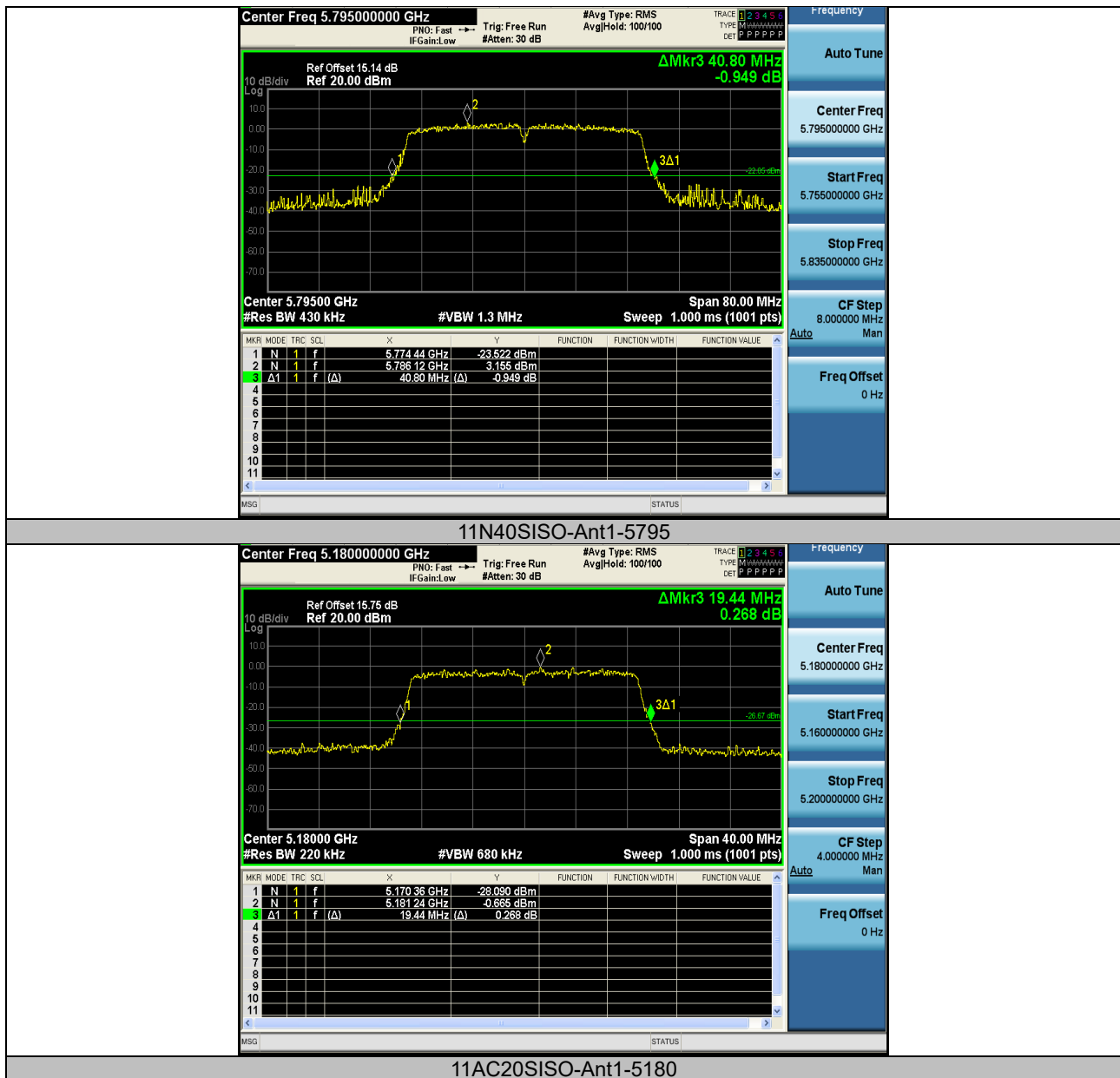
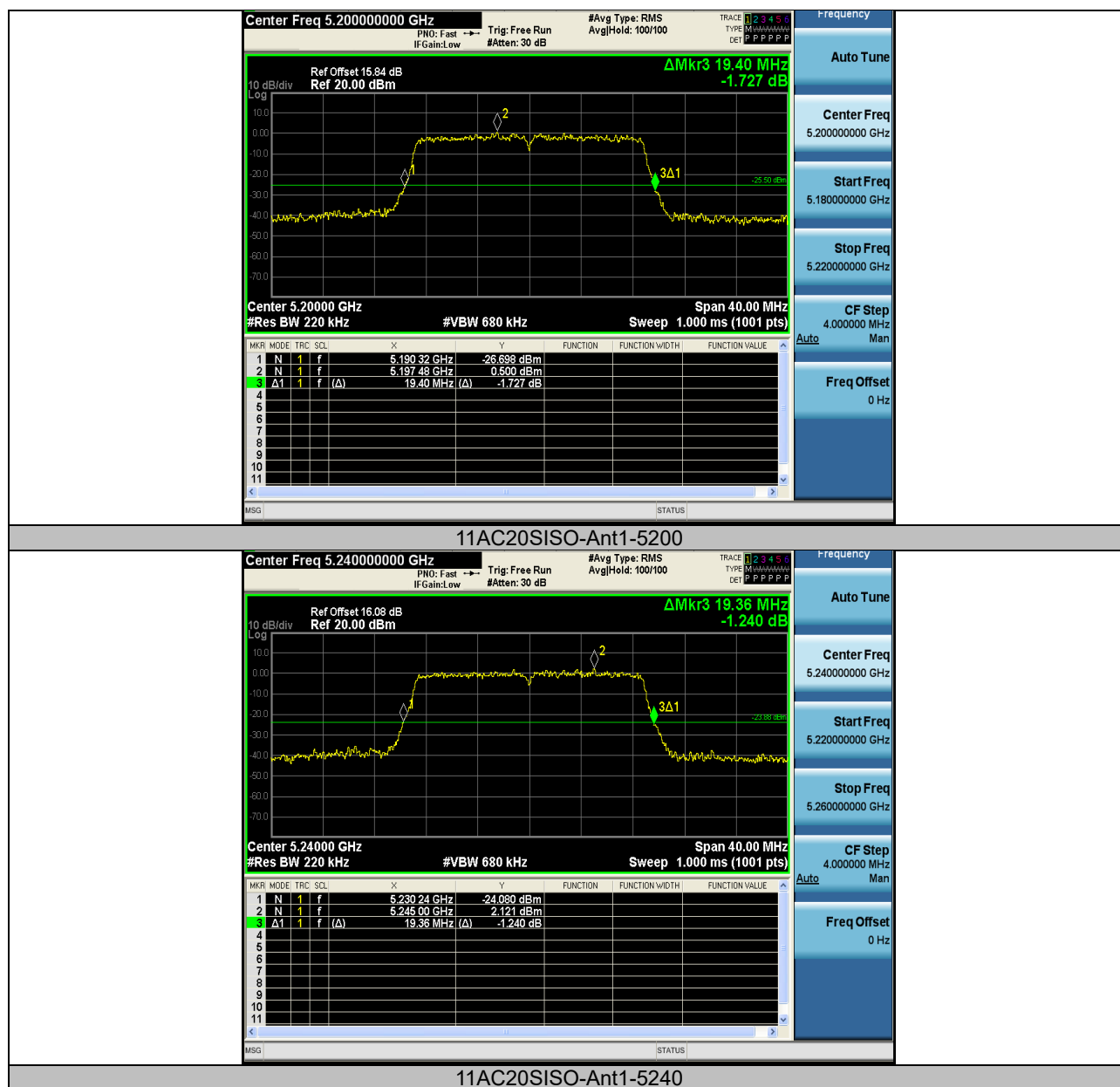
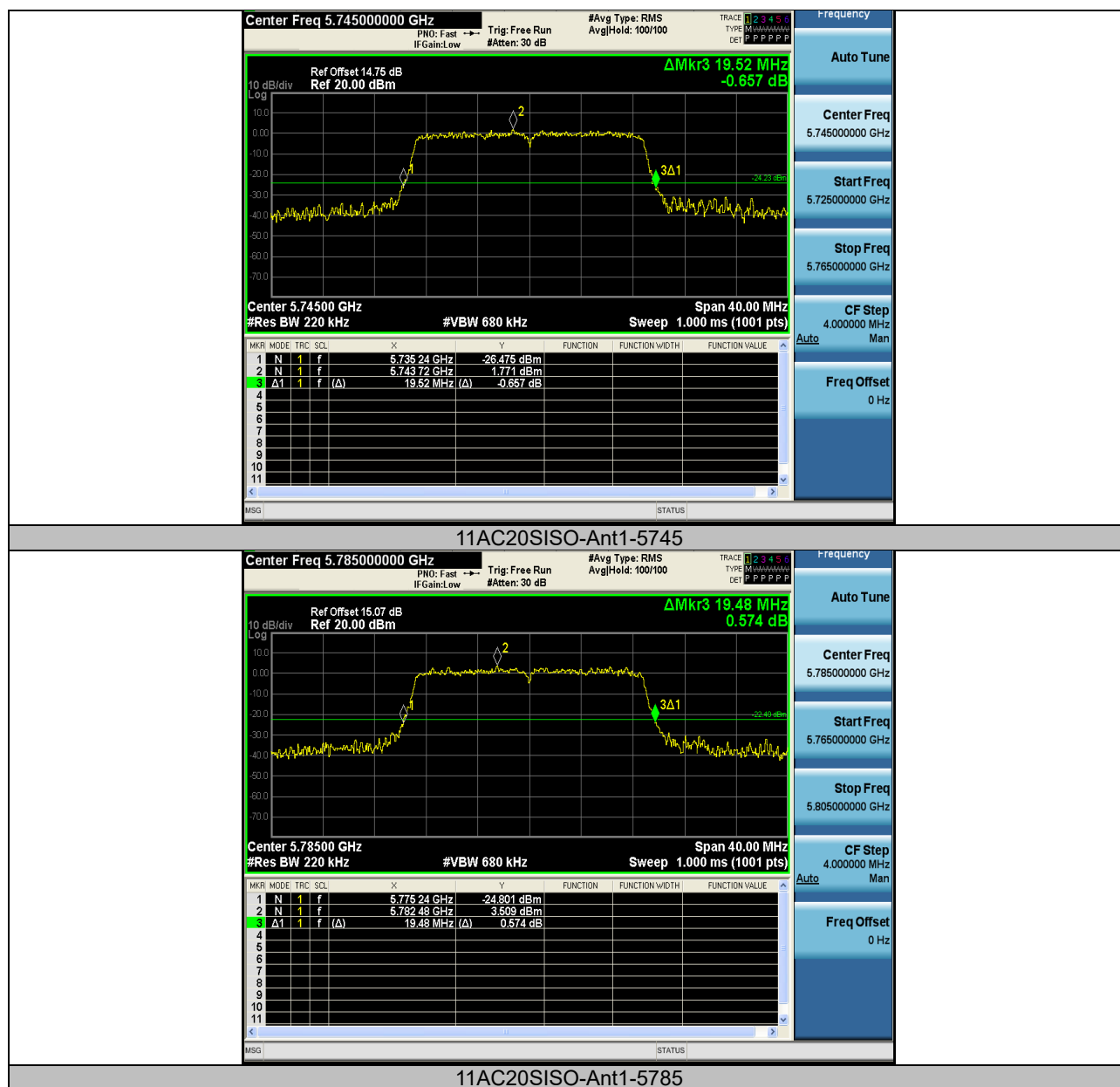




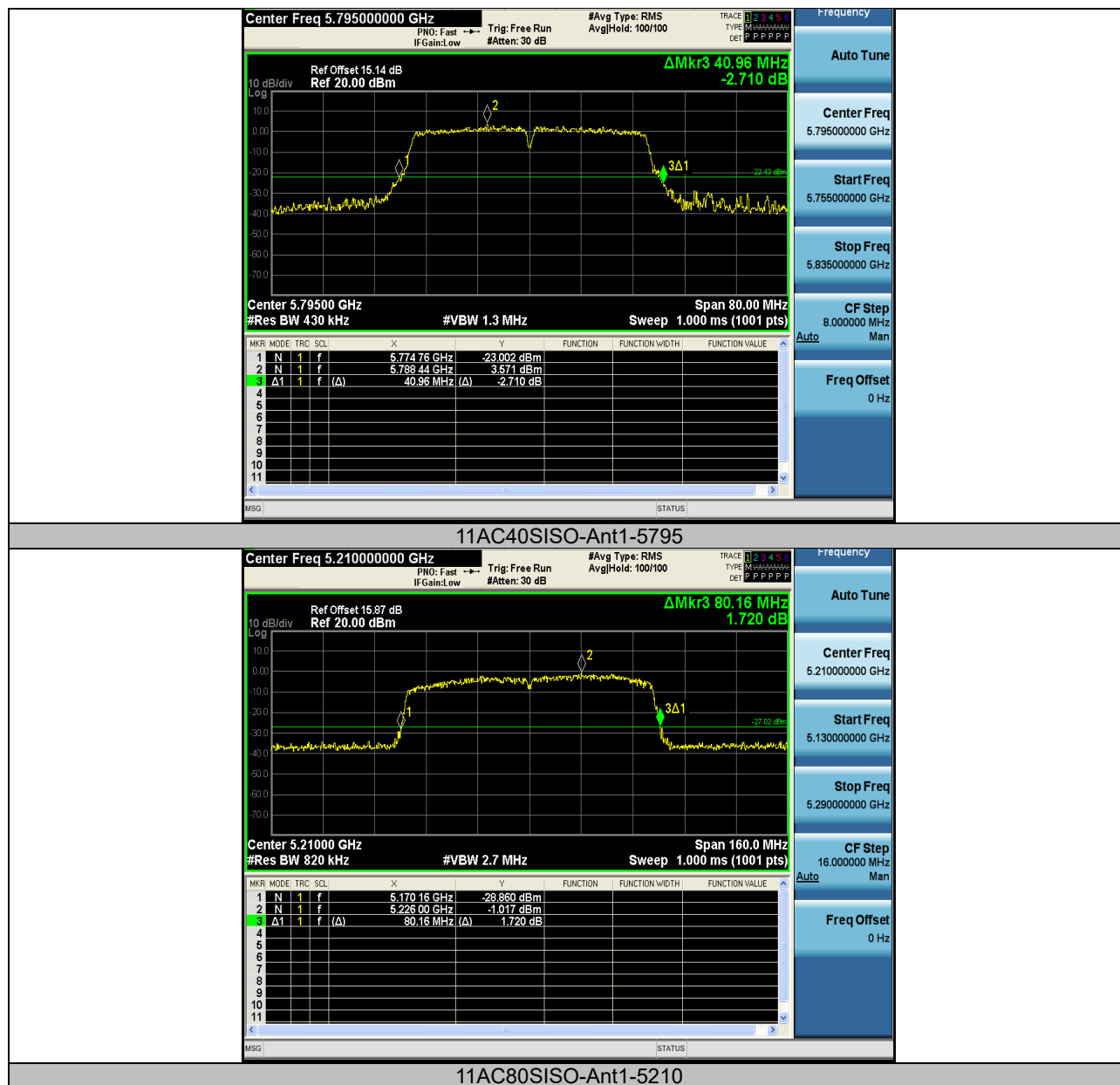


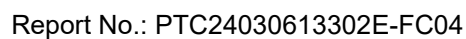






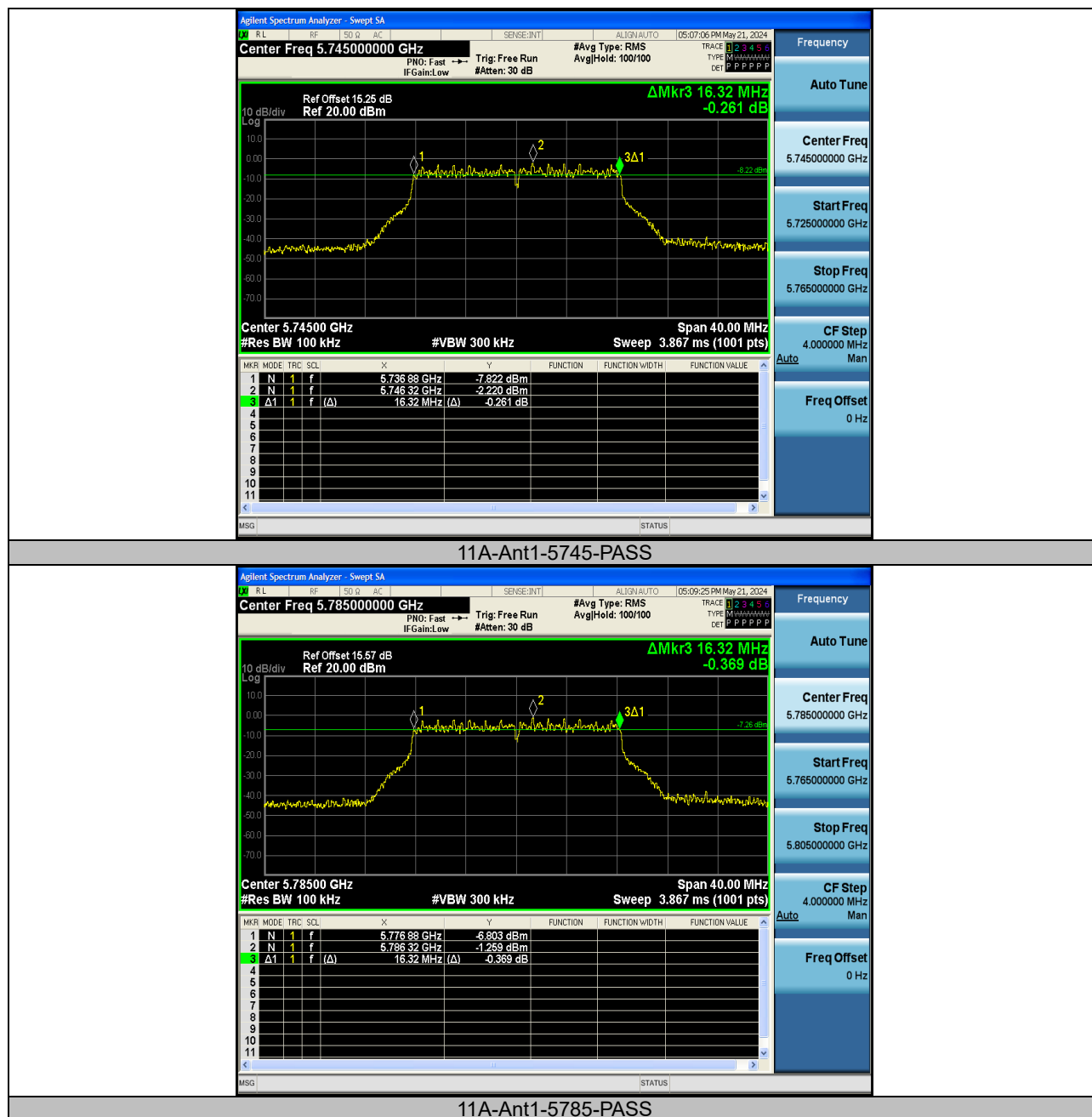


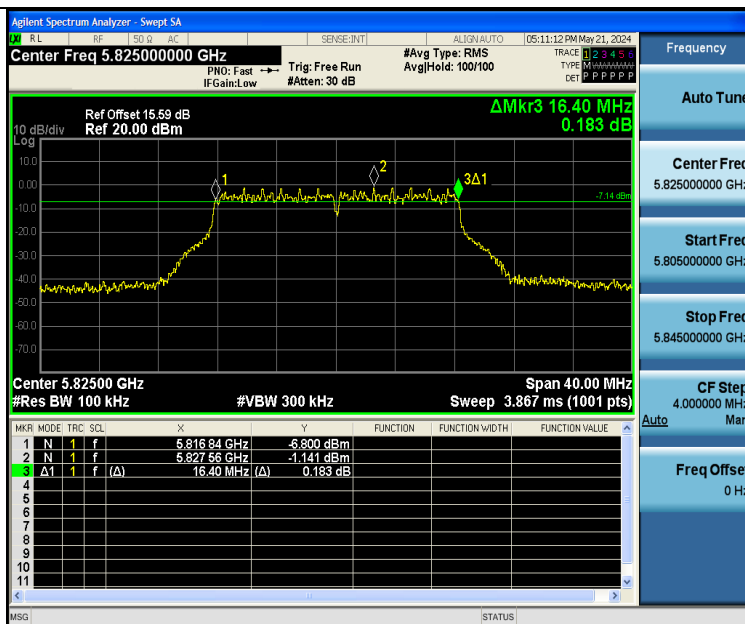




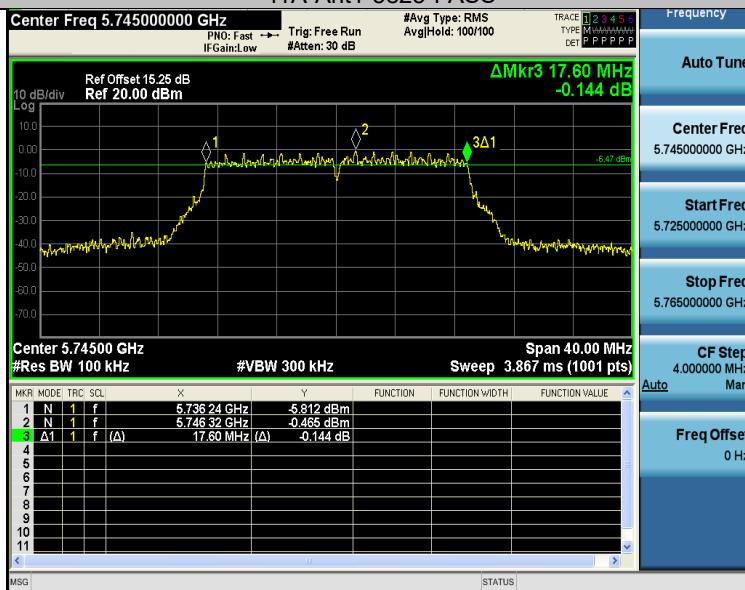


Min emission bandwidth Test Graphs:



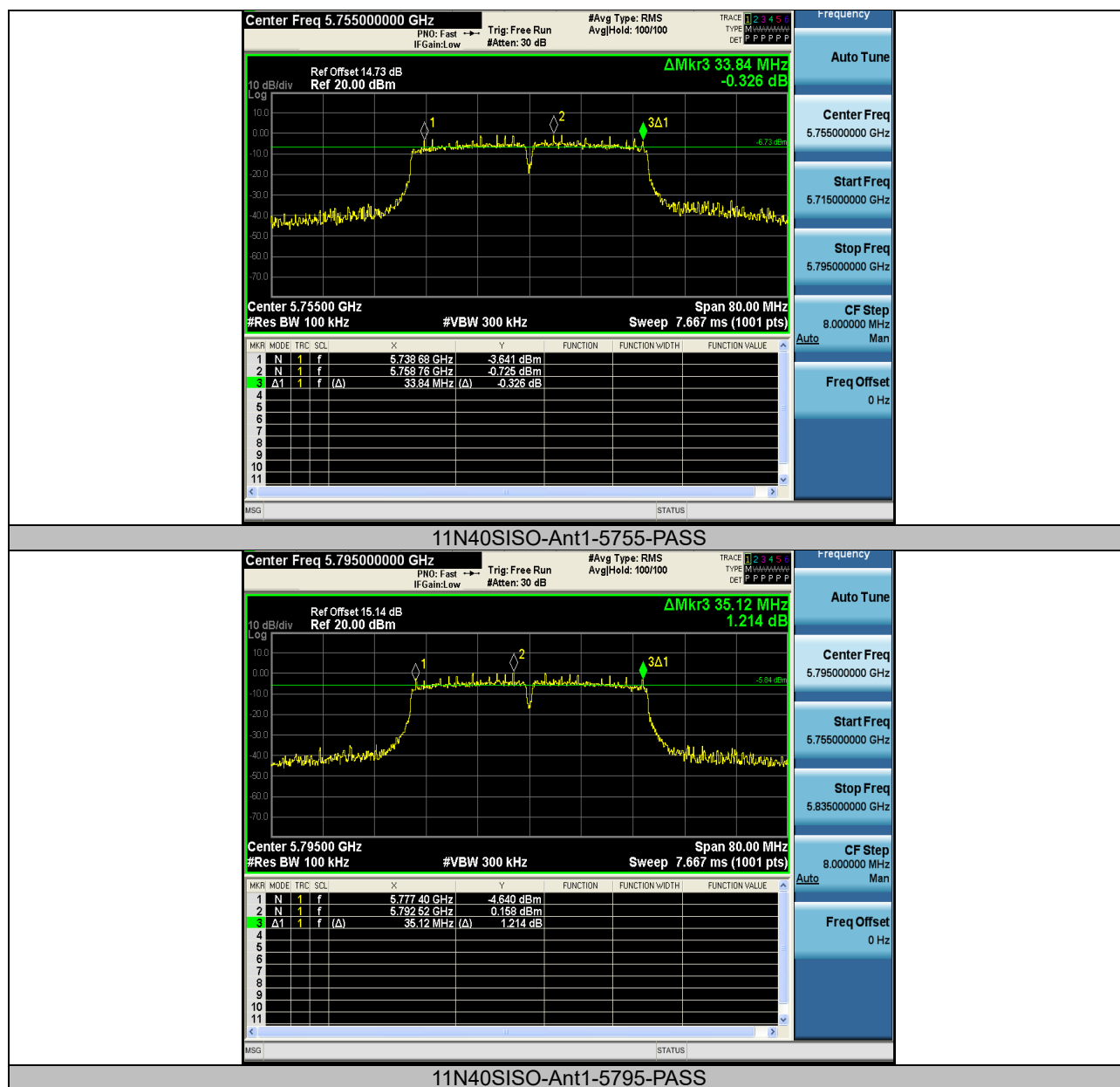


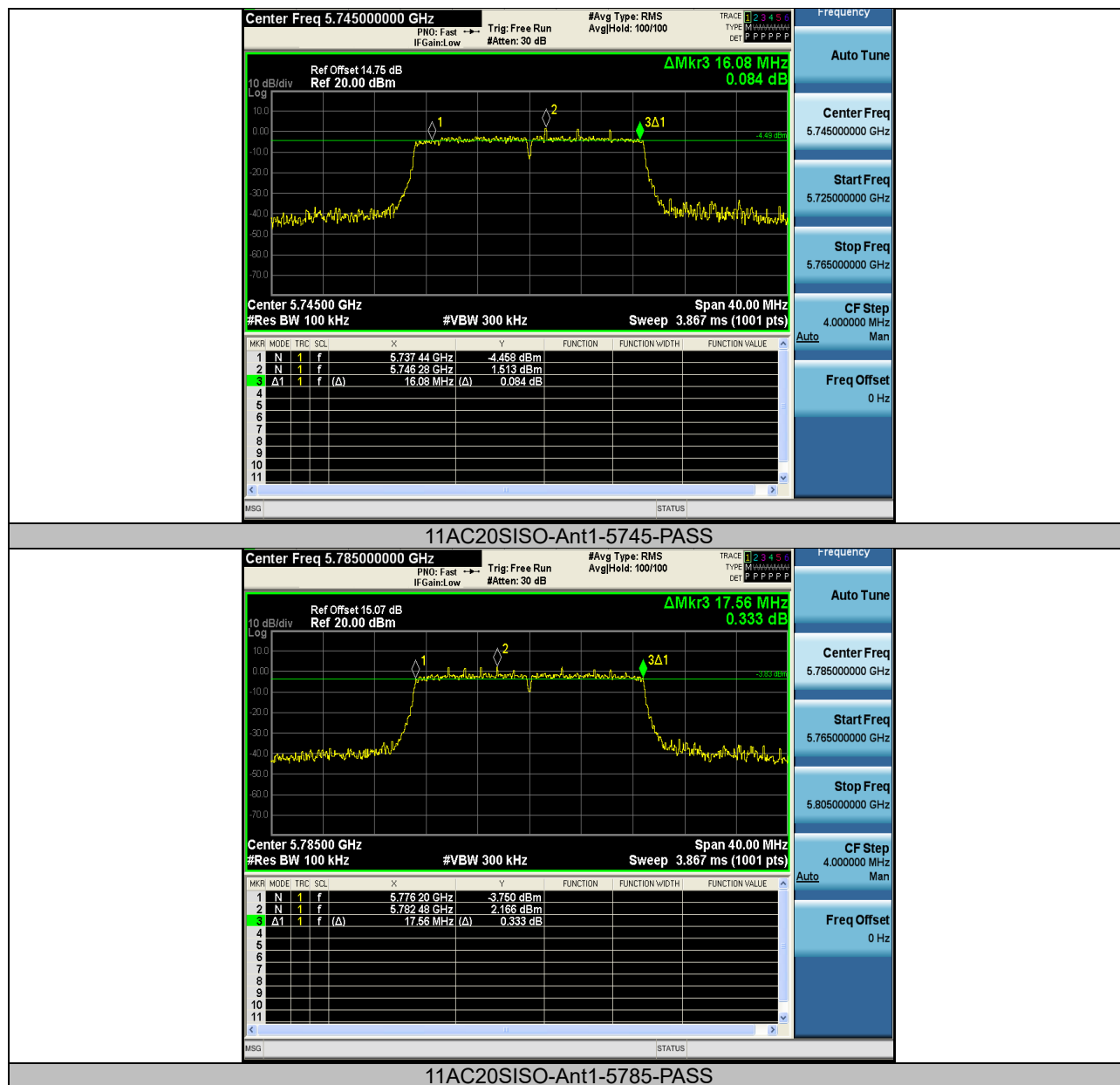
11A-Ant1-5825-PASS

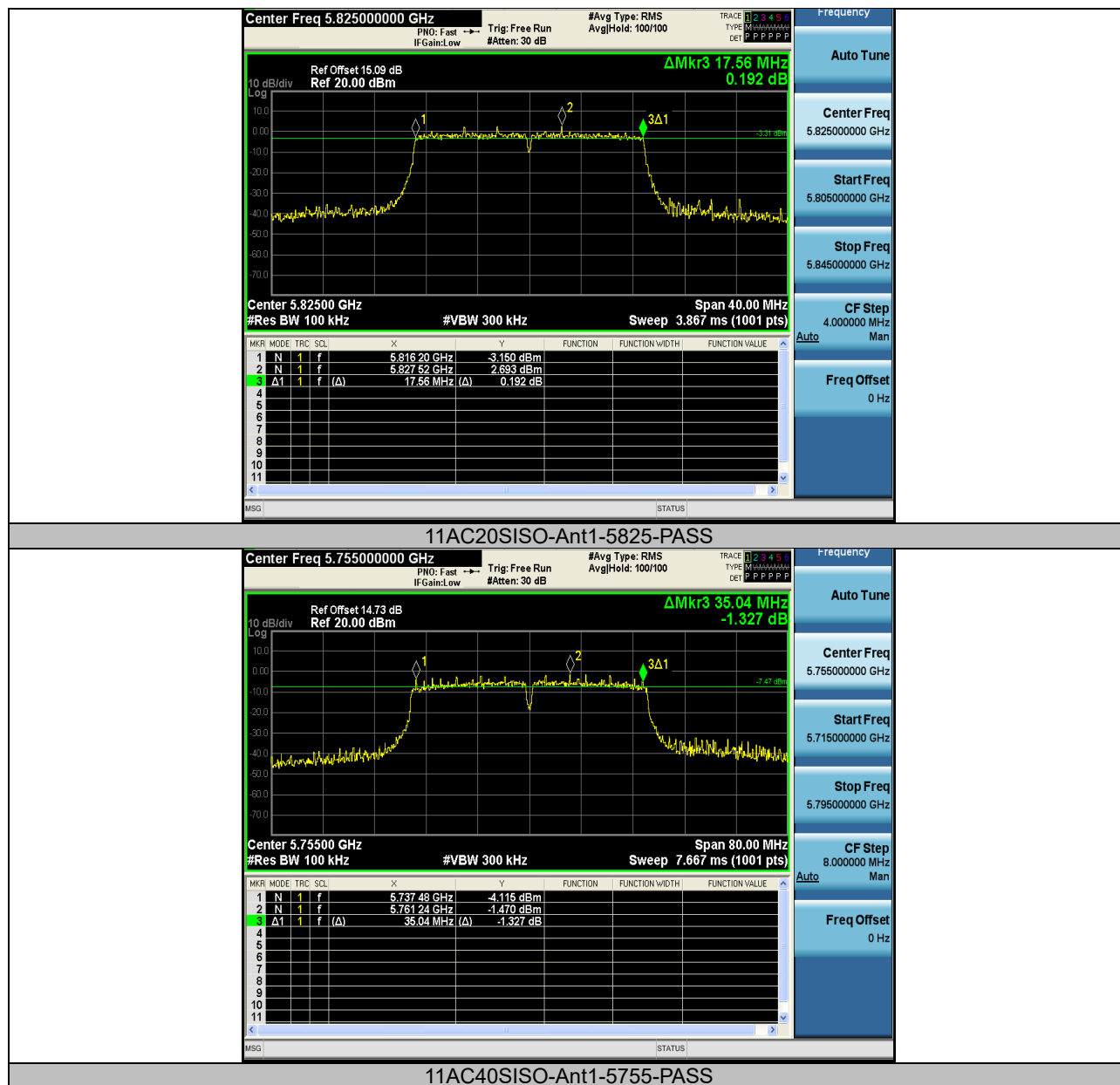


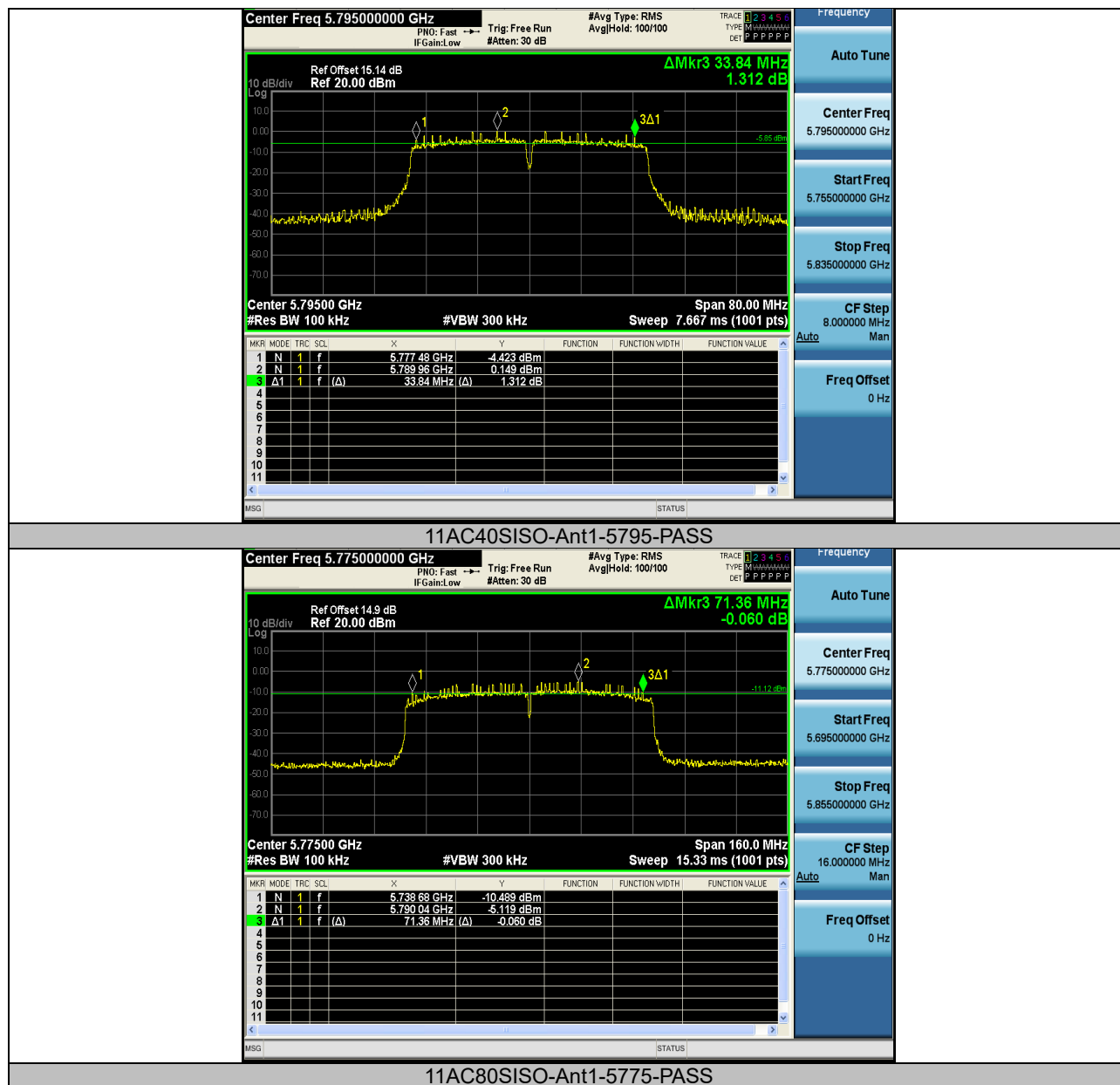
11N20SISO-Ant1-5745-PASS











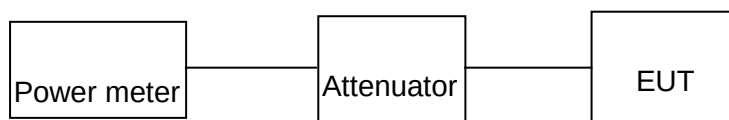


8 Maximum Conducted Output Power

Test Requirement	: FCC CFR47 Part 15 Section 15.247
Test Method	: ANSI C63.10:2013
Test Limit	: For client devices in the 5.15-5.25 GHz band, 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. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density 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, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density 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.

8.1 Test Setup



8.2 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, The use Power Meter 1. Place the EUT on a bench and set it in transmitting mode. 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to a Power meter.



8.3 Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Power[dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	16.41	≤23.98	PASS
11A	Ant1	5200	16.90	≤23.98	PASS
11A	Ant1	5240	17.77	≤23.98	PASS
11A	Ant1	5745	8.69	≤30.00	PASS
11A	Ant1	5785	9.91	≤30.00	PASS
11A	Ant1	5825	10.37	≤30.00	PASS
11N20SISO	Ant1	5180	16.22	≤23.98	PASS
11N20SISO	Ant1	5200	17.06	≤23.98	PASS
11N20SISO	Ant1	5240	17.61	≤23.98	PASS
11N20SISO	Ant1	5745	10.35	≤30.00	PASS
11N20SISO	Ant1	5785	11.63	≤30.00	PASS
11N20SISO	Ant1	5825	12.22	≤30.00	PASS

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11N40SISO	Ant1	5190	10.65	≤23.98	PASS
11N40SISO	Ant1	5230	12.38	≤23.98	PASS
11N40SISO	Ant1	5755	13.09	≤30.00	PASS
11N40SISO	Ant1	5795	13.60	≤30.00	PASS
11AC20SISO	Ant1	5180	9.62	≤23.98	PASS
11AC20SISO	Ant1	5200	10.84	≤23.98	PASS
11AC20SISO	Ant1	5240	12.57	≤23.98	PASS
11AC20SISO	Ant1	5745	12.25	≤30.00	PASS
11AC20SISO	Ant1	5785	13.72	≤30.00	PASS
11AC20SISO	Ant1	5825	14.15	≤30.00	PASS
11AC40SISO	Ant1	5190	10.17	≤23.98	PASS
11AC40SISO	Ant1	5230	12.26	≤23.98	PASS
11AC40SISO	Ant1	5755	12.69	≤30.00	PASS
11AC40SISO	Ant1	5795	13.85	≤30.00	PASS
11AC80SISO	Ant1	5210	9.13	≤23.98	PASS



Report No.: PTC24030613302E-FC04

11AC80SISO	Ant1	5775	11.44	≤30.00	PASS
------------	------	------	-------	--------	------



9 Power Spectral density

Test Requirement	: FCC CFR47 Part 15 Section 15.2407(a)
Test Method	: ANSI C63.10:2013
Test Limit	: For client devices in the 5.15-5.25 GHz band, 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. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density 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, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHzband. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density 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

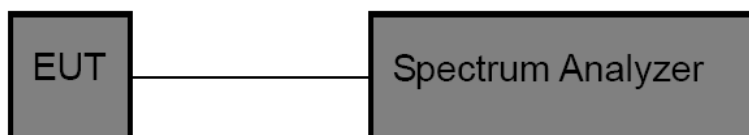


9.1 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 and ANSI 63.10: 2013 Sec 10.3.7. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in Section 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

- a) Set the RBW to 1 MHz.
- b) Set the VBW to be at least 1 MHz (a VBW of 3 MHz is desirable).
- c) Set the frequency span to examine the spectrum across a convenient frequency segment (e.g., 600 MHz).
- d) Select the power averaging (rms) detector.
- e) Set the sweep time so that there is no more than a 1 ms integration period over each measurement bin.
- f) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

9.2 Test Setup





9.3 Test Result

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations / data rates and antenna ports.

Following channel was selected for the final test as listed below

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	5.81	≤11.00	PASS
11A	Ant1	5200	6.33	≤11.00	PASS
11A	Ant1	5240	7.21	≤11.00	PASS
11N20SISO	Ant1	5180	5.28	≤11.00	PASS
11N20SISO	Ant1	5200	6.21	≤11.00	PASS
11N20SISO	Ant1	5240	6.57	≤11.00	PASS
11N40SISO	Ant1	5190	-2.93	≤11.00	PASS
11N40SISO	Ant1	5230	-1.42	≤11.00	PASS
11AC20SISO	Ant1	5180	-1.72	≤11.00	PASS
11AC20SISO	Ant1	5200	-0.24	≤11.00	PASS
11AC20SISO	Ant1	5240	1.15	≤11.00	PASS
11AC40SISO	Ant1	5190	-3.06	≤11.00	PASS
11AC40SISO	Ant1	5230	-1.51	≤11.00	PASS
11AC80SISO	Ant1	5210	-7.02	≤11.00	PASS

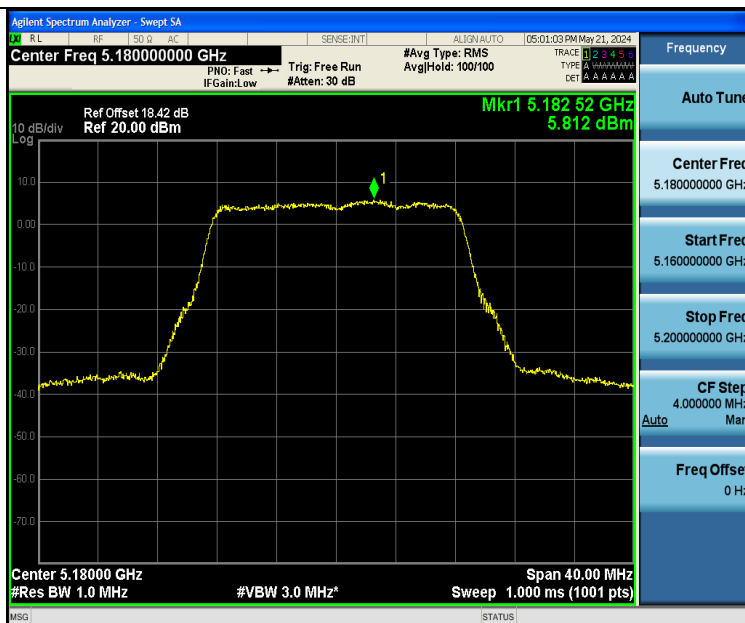
TestMode	Antenna	Frequency[MHz]	Result [dBm/300kHz]	Result [dBm/500kHz]	Result [dBm/500kHz]	Verdict
11A	Ant1	5745	-4.07	-1.85	≤30.00	PASS
11A	Ant1	5785	-3.09	-0.87	≤30.00	PASS
11A	Ant1	5825	-2.96	-0.74	≤30.00	PASS
11N20SISO	Ant1	5745	-2.7	-0.48	≤30.00	PASS
11N20SISO	Ant1	5785	-1.16	1.06	≤30.00	PASS
11N20SISO	Ant1	5825	-1.22	1.00	≤30.00	PASS
11N40SISO	Ant1	5755	-3.71	-3.49	≤30.00	PASS
11N40SISO	Ant1	5795	-2.79	-2.57	≤30.00	PASS
11AC20SISO	Ant1	5745	-1.83	-1.61	≤30.00	PASS
11AC20SISO	Ant1	5785	-0.47	-0.25	≤30.00	PASS
11AC40SISO	Ant1	5755	-3.84	-3.62	≤30.00	PASS
11AC40SISO	Ant1	5795	-2.76	-2.54	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

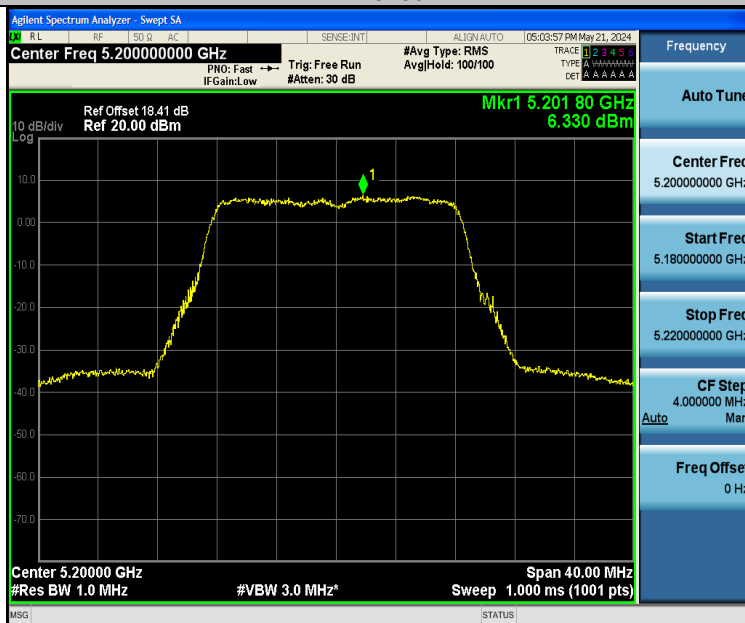
2. in the band 5.725–5.85 GHz the test RBW select 300KHz,so the measured result corrected by Result+10 log (500 kHz/300kHz).



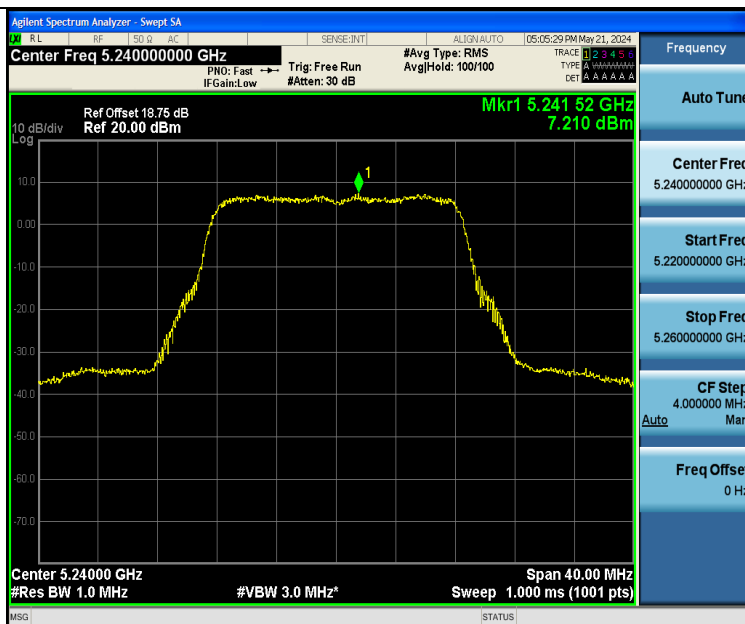
Test Graphs:



11A-Ant1-5180-PASS



11A-Ant1-5200-PASS



11A-Ant1-5240-PASS



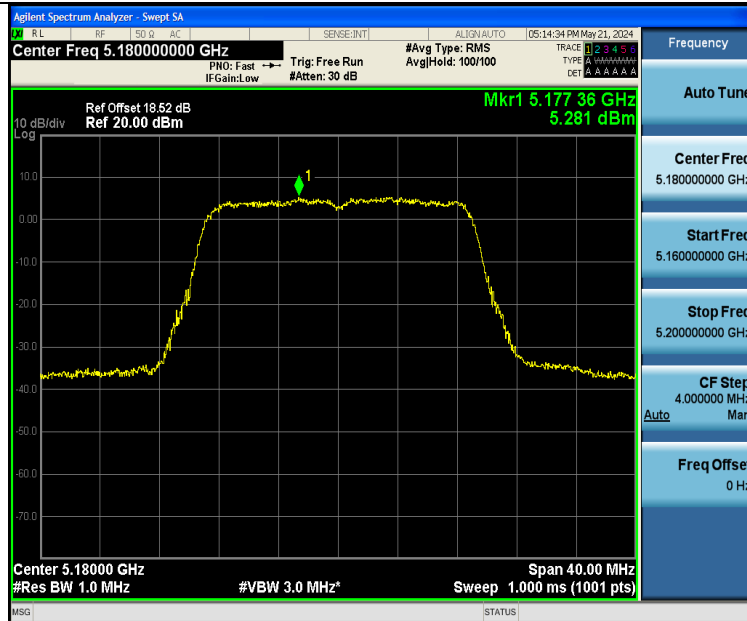
11A-Ant1-5745-PASS



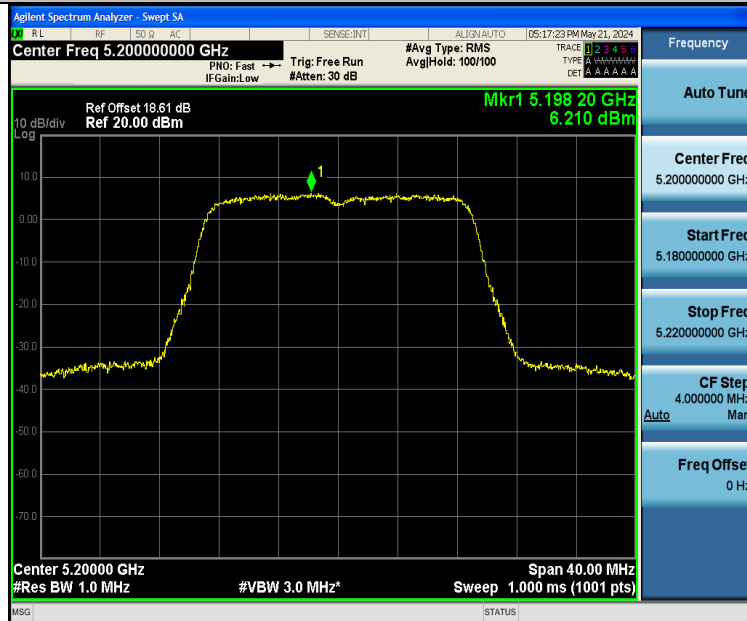
11A-Ant1-5785-PASS



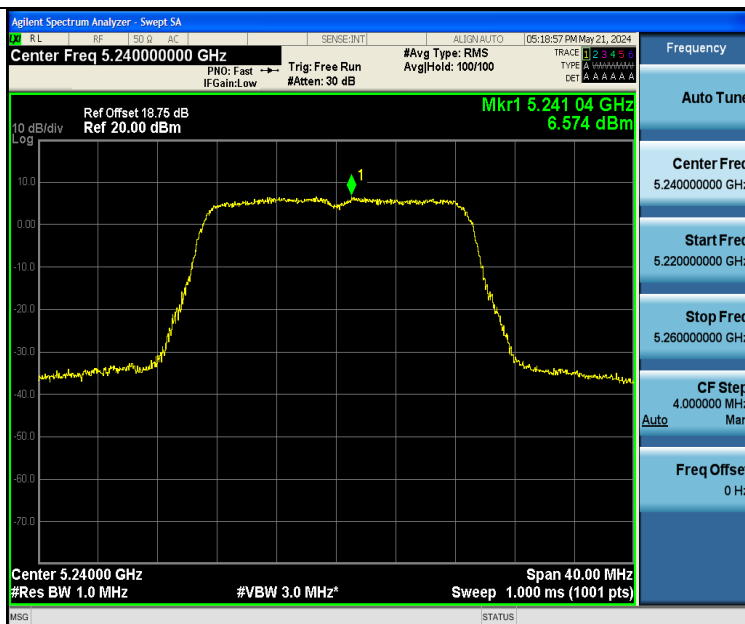
11A-Ant1-5825-PASS



11N20SISO-Ant1-5180-PASS



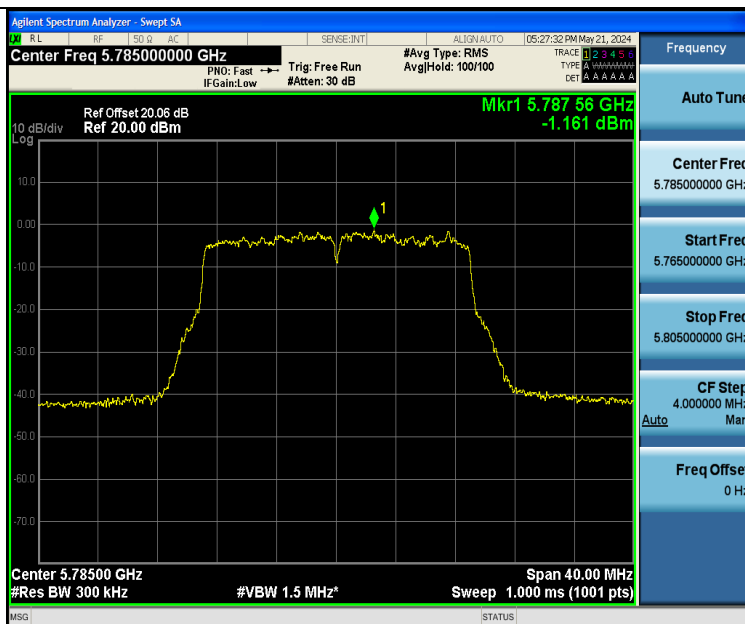
11N20SISO-Ant1-5200-PASS



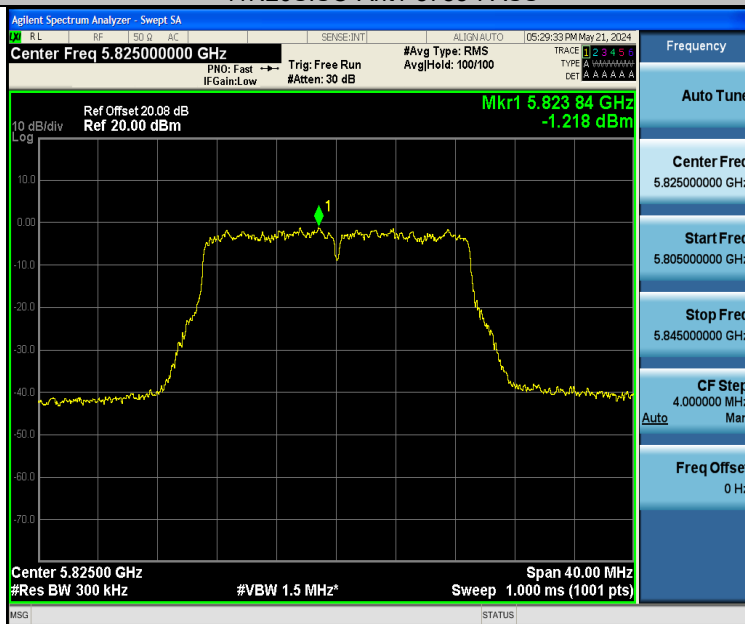
11N20SISO-Ant1-5240-PASS



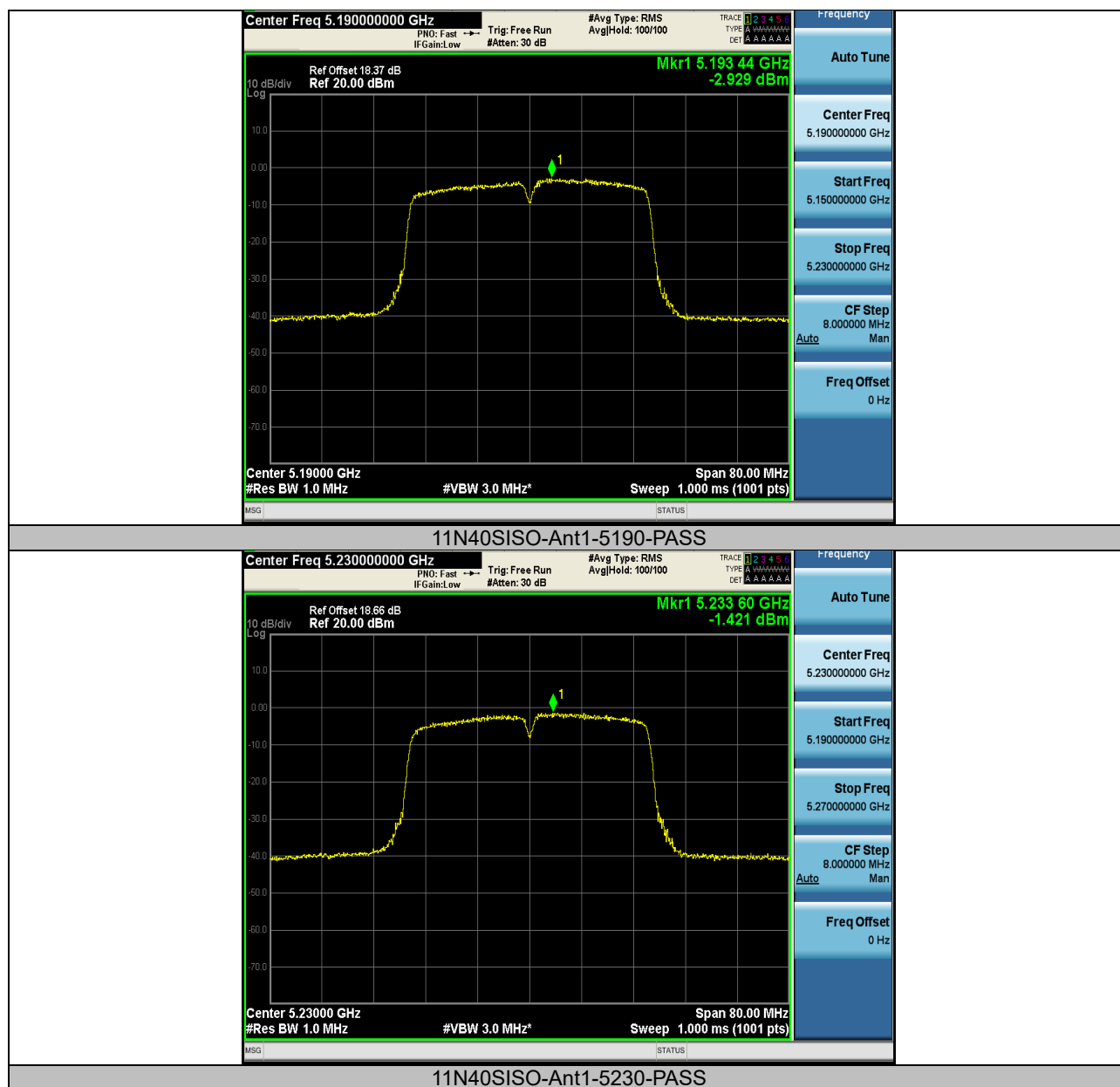
11N20SISO-Ant1-5745-PASS

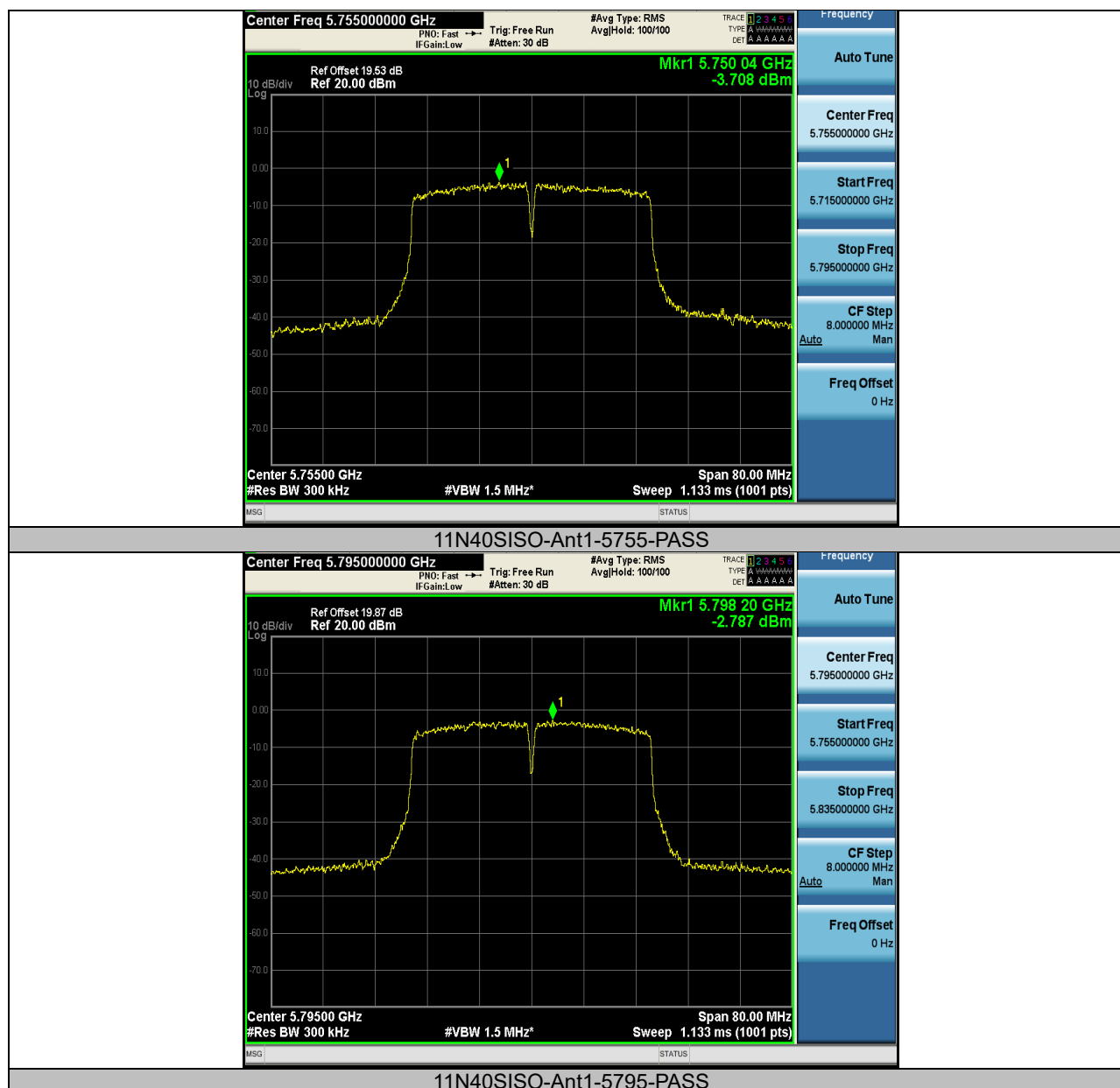


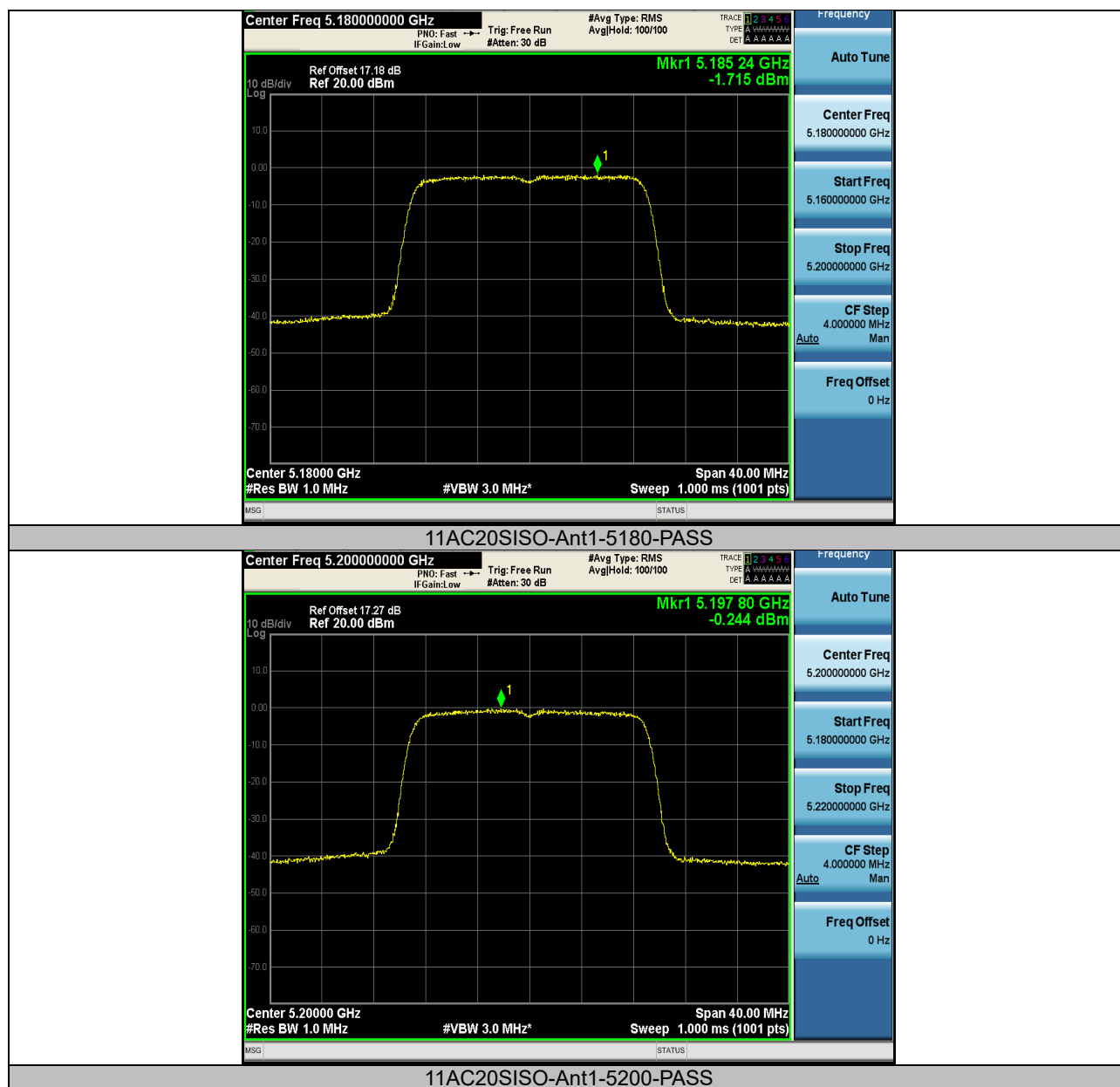
11N20SISO-Ant1-5785-PASS

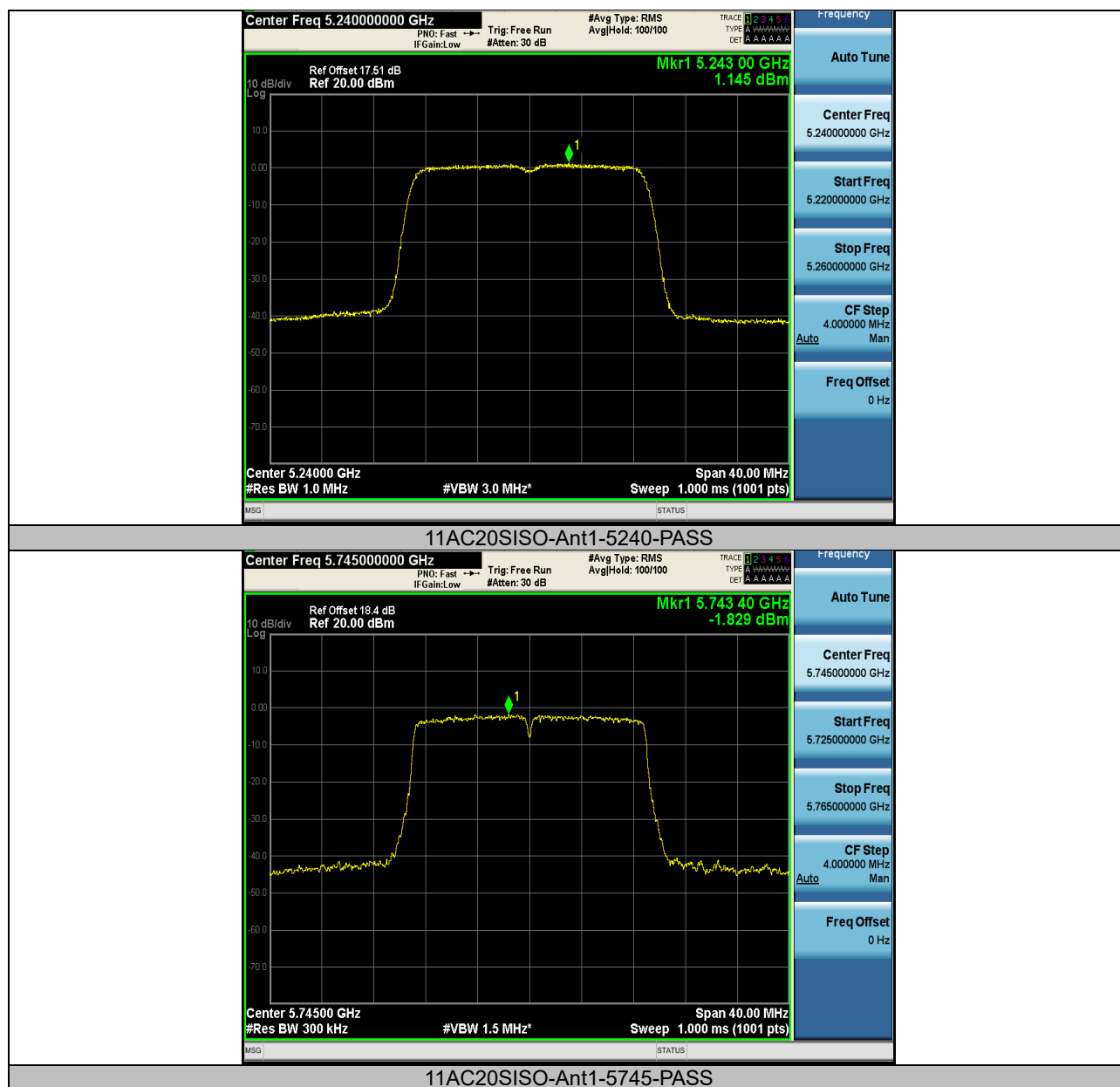


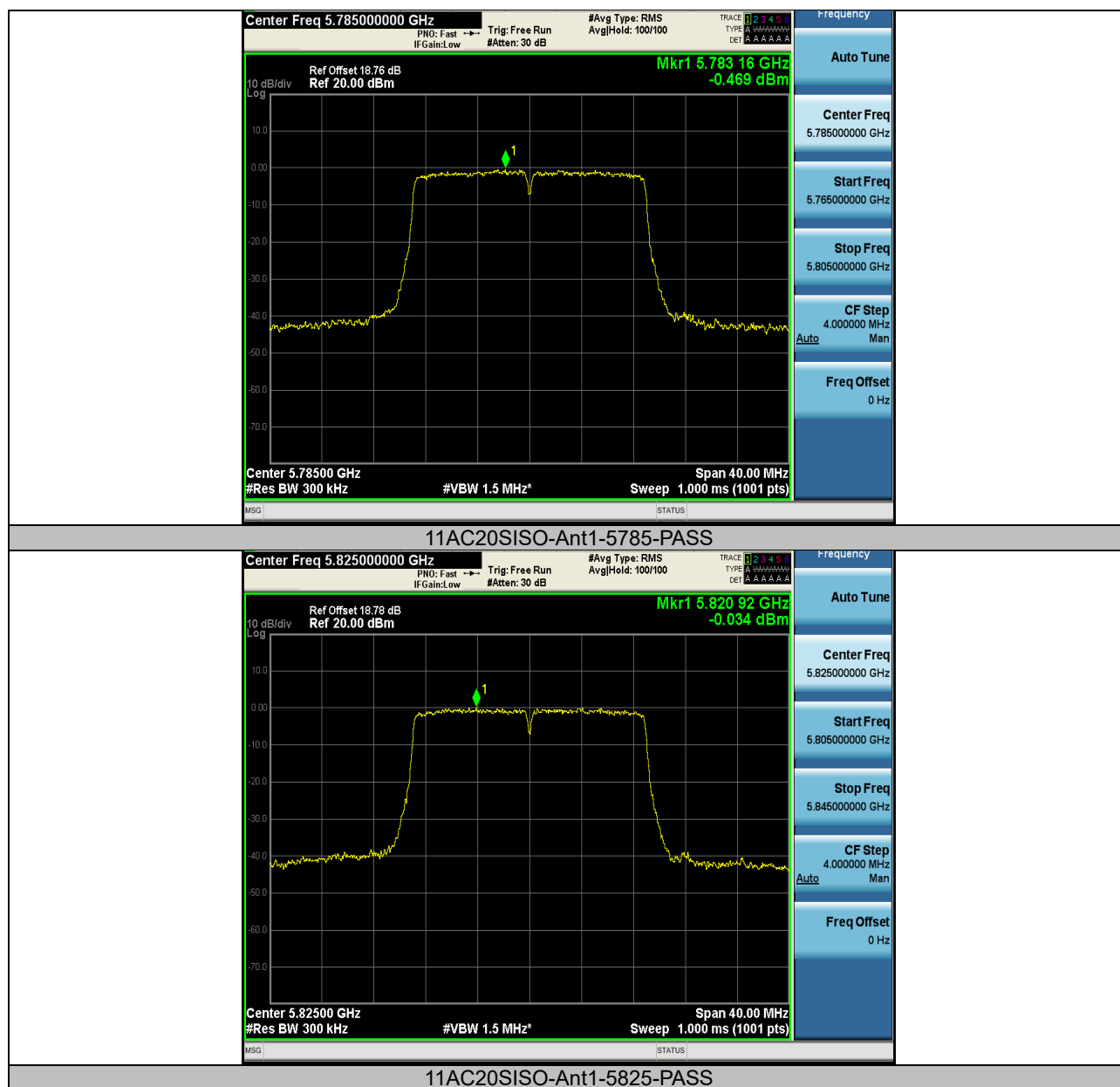
11N20SISO-Ant1-5825-PASS

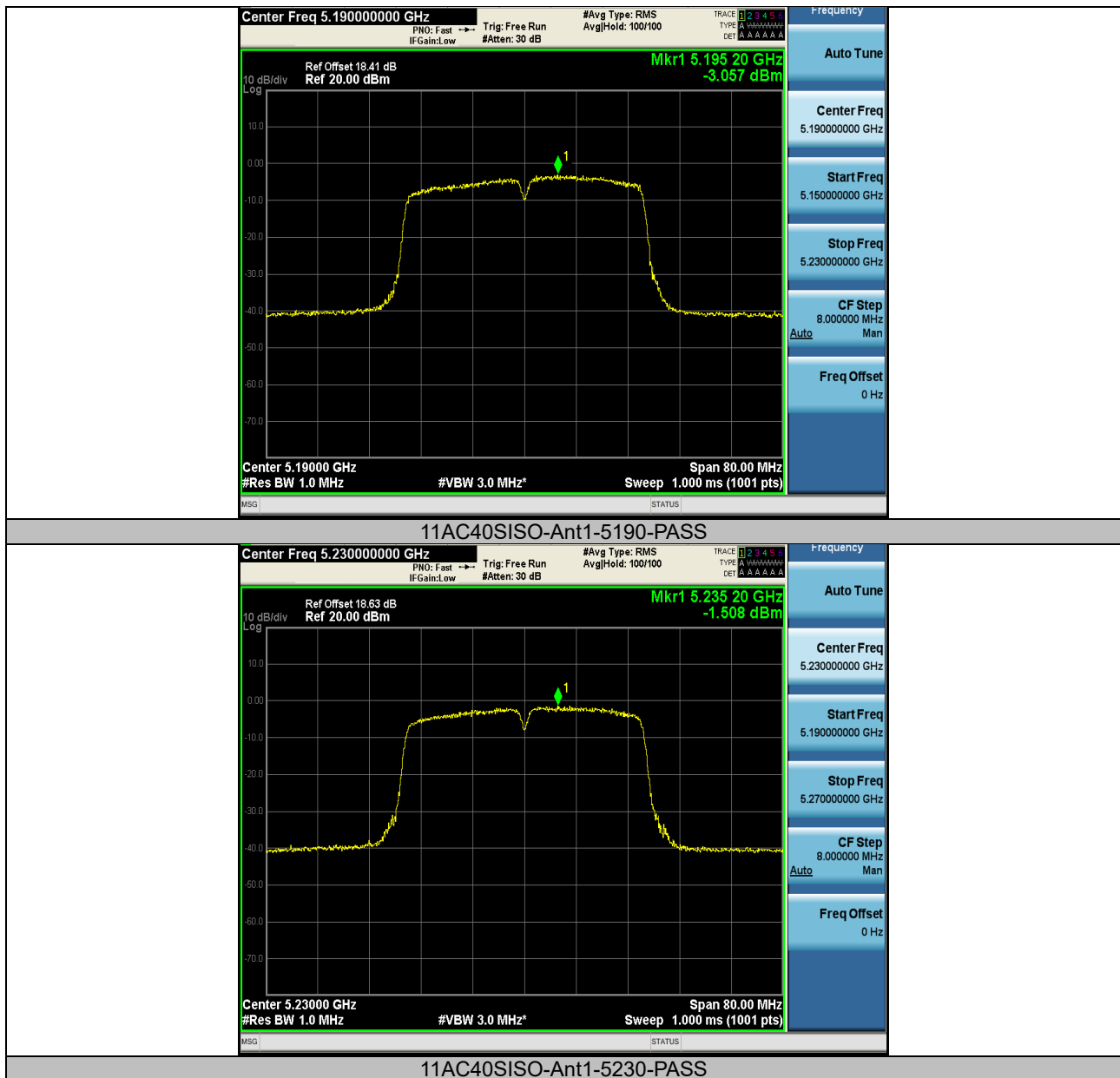


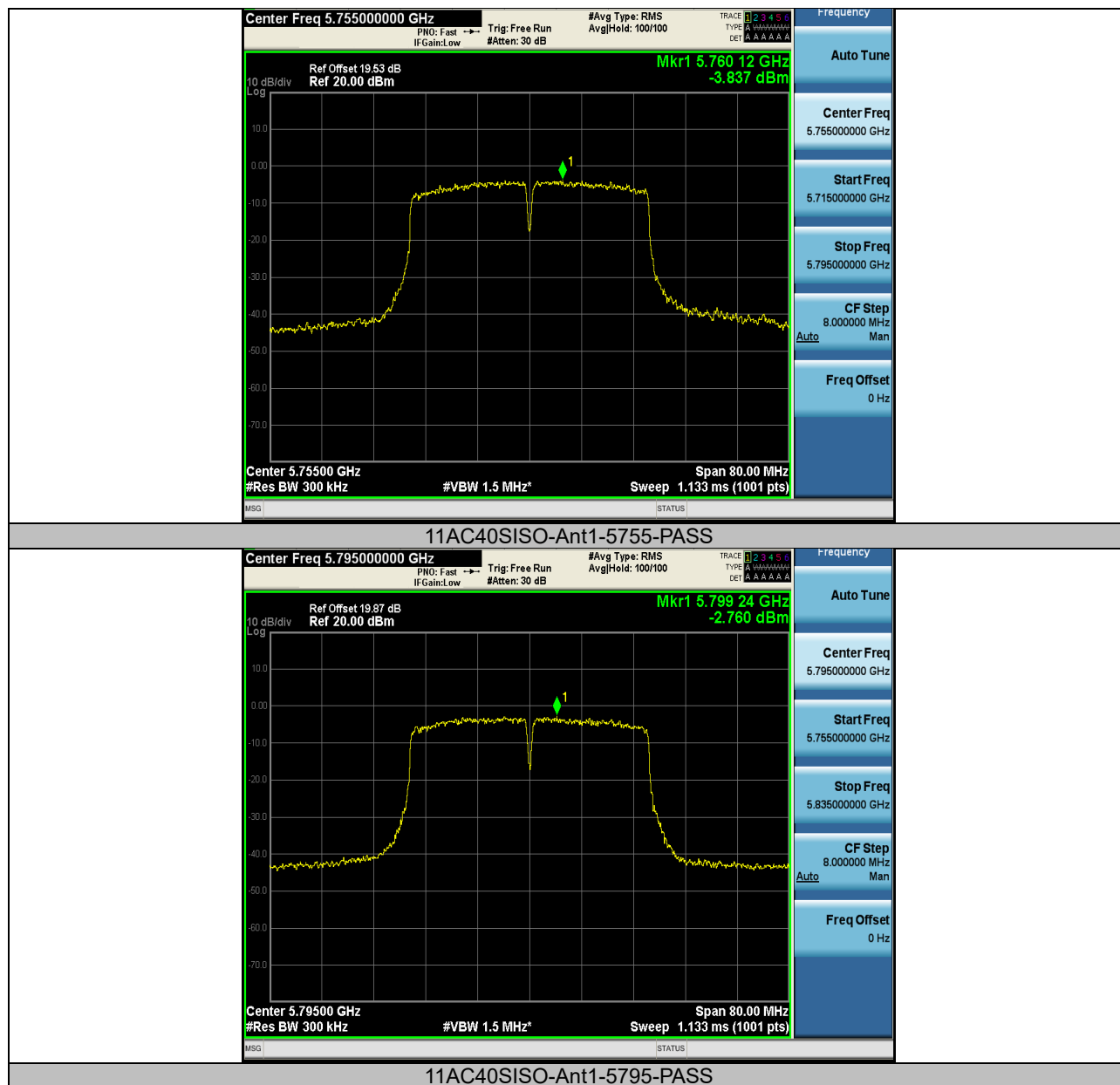


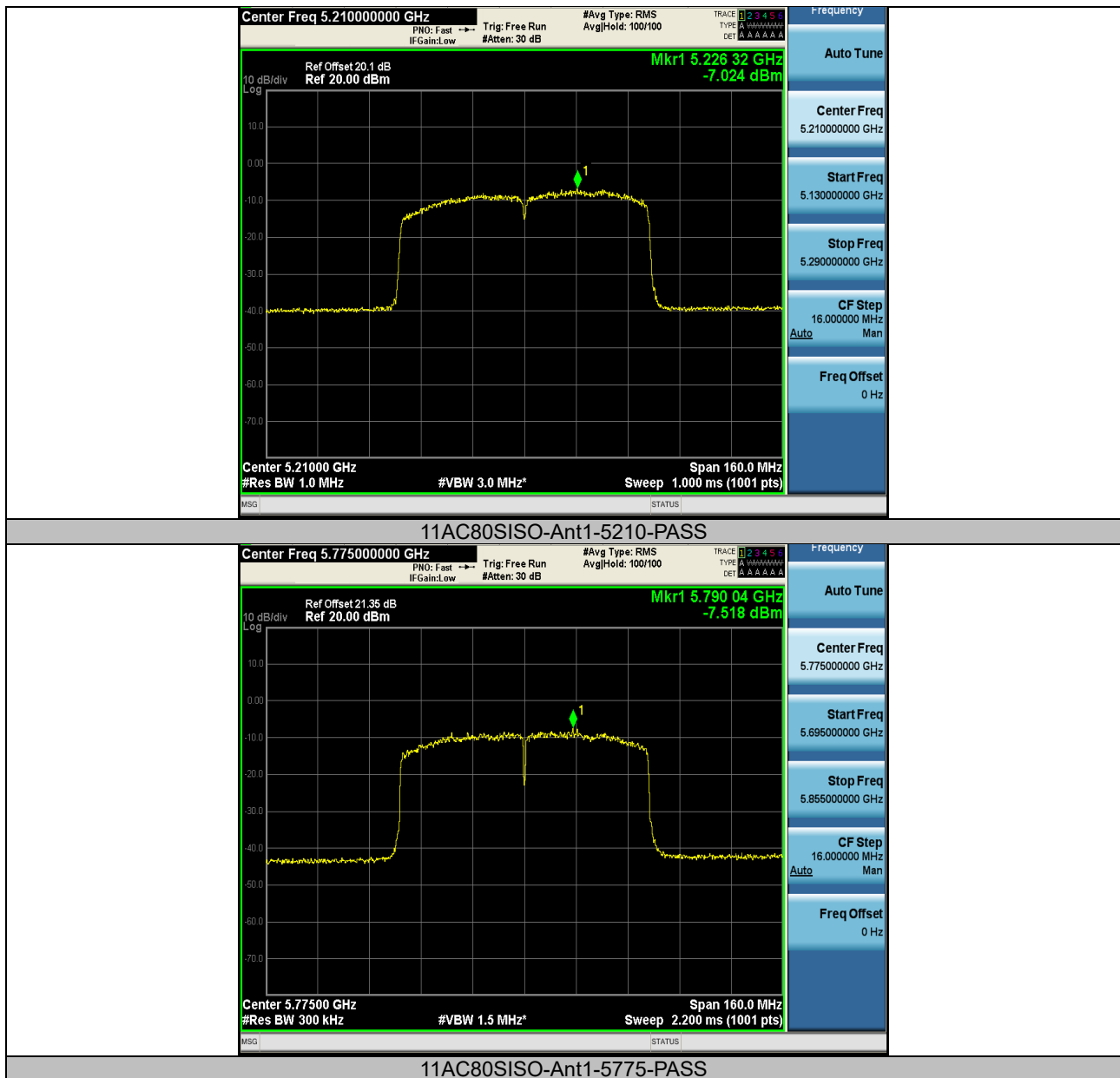














9.4 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.5 Result

The EUT'S antenna, permanent attached antenna, is FPC Antenna. The antenna's gain is 5.2G:2.19dBi; 5.8G:3.59 dBi and meets the requirement.



10 Frequency Stability

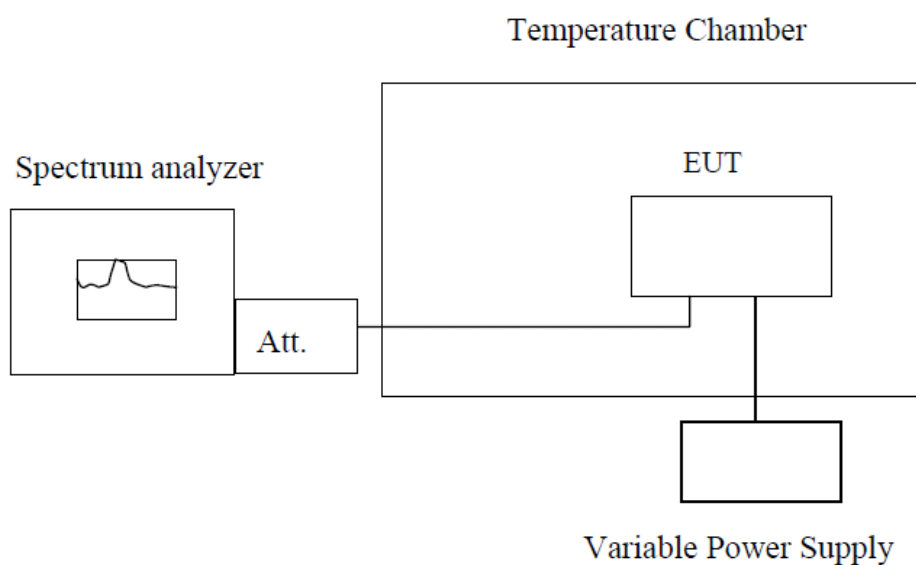
Test Requirement : FCC Part15 E Section 15.407 (g)

Test Limit Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

10.1 Test Procedure

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.

10.2 Test Setup





10.3 Test Result

TestMode	Antenna	Frequenc y[MHz]	Voltage [Vdc]	Temperat ure (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	3.8	NT	20000.00	3.861004	20	PASS
11A	Ant1	5180	3.25	NT	19000.00	3.667954	20	PASS
11A	Ant1	5180	4.37	NT	19000.00	3.667954	20	PASS
11N20SIS O	Ant1	5180	3.8	NT	18000.00	3.474903	20	PASS
11N20SIS O	Ant1	5180	3.25	NT	18000.00	3.474903	20	PASS
11N20SIS O	Ant1	5180	4.37	NT	18000.00	3.474903	20	PASS
11A	Ant1	5200	3.8	NT	18000.00	3.461538	20	PASS
11A	Ant1	5200	3.25	NT	18000.00	3.461538	20	PASS
11A	Ant1	5200	4.37	NT	17000.00	3.269231	20	PASS
11N20SIS O	Ant1	5200	3.8	NT	17000.00	3.269231	20	PASS
11N20SIS O	Ant1	5200	3.25	NT	17000.00	3.269231	20	PASS
11N20SIS O	Ant1	5200	4.37	NT	17000.00	3.269231	20	PASS
11A	Ant1	5240	3.8	NT	17000.00	3.244275	20	PASS
11A	Ant1	5240	3.25	NT	17000.00	3.244275	20	PASS
11A	Ant1	5240	4.37	NT	17000.00	3.244275	20	PASS
11N20SIS O	Ant1	5240	3.8	NT	16000.00	3.053435	20	PASS
11N20SIS O	Ant1	5240	3.25	NT	16000.00	3.053435	20	PASS
11N20SIS O	Ant1	5240	4.37	NT	16000.00	3.053435	20	PASS
11A	Ant1	5745	3.8	NT	18000.00	3.133159	20	PASS
11A	Ant1	5745	3.25	NT	18000.00	3.133159	20	PASS
11A	Ant1	5745	4.37	NT	18000.00	3.133159	20	PASS
11N20SIS O	Ant1	5745	3.8	NT	18000.00	3.133159	20	PASS
11N20SIS O	Ant1	5745	3.25	NT	18000.00	3.133159	20	PASS
11N20SIS O	Ant1	5745	4.37	NT	18000.00	3.133159	20	PASS
11A	Ant1	5785	3.8	NT	18000.00	3.111495	20	PASS
11A	Ant1	5785	3.25	NT	18000.00	3.111495	20	PASS
11A	Ant1	5785	4.37	NT	18000.00	3.111495	20	PASS
11N20SIS O	Ant1	5785	3.8	NT	18000.00	3.111495	20	PASS
11N20SIS O	Ant1	5785	3.25	NT	18000.00	3.111495	20	PASS
11N20SIS O	Ant1	5785	4.37	NT	18000.00	3.111495	20	PASS
11A	Ant1	5825	3.8	NT	18000.00	3.090129	20	PASS
11A	Ant1	5825	3.25	NT	18000.00	3.090129	20	PASS
11A	Ant1	5825	4.37	NT	18000.00	3.090129	20	PASS
11N20SIS O	Ant1	5825	3.8	NT	18000.00	3.090129	20	PASS
11N20SIS O	Ant1	5825	3.25	NT	18000.00	3.090129	20	PASS



11N20SIS O	Ant1	5825	4.37	NT	18000.00	3.090129	20	PASS
11N40SIS O	Ant1	5190	NV	NT	-17000.00	-3.275530	20	PASS
11N40SIS O	Ant1	5190	LV	NT	-18000.00	-3.468208	20	PASS
11N40SIS O	Ant1	5190	HV	NT	-17000.00	-3.275530	20	PASS
11N40SIS O	Ant1	5230	NV	NT	-18000.00	-3.441683	20	PASS
11N40SIS O	Ant1	5230	LV	NT	-18000.00	-3.441683	20	PASS
11N40SIS O	Ant1	5230	HV	NT	-18000.00	-3.441683	20	PASS
11N40SIS O	Ant1	5755	NV	NT	-20000.00	-3.475239	20	PASS
11N40SIS O	Ant1	5755	LV	NT	-21000.00	-3.649001	20	PASS
11N40SIS O	Ant1	5755	HV	NT	-21000.00	-3.649001	20	PASS
11N40SIS O	Ant1	5795	NV	NT	-21000.00	-3.623814	20	PASS
11N40SIS O	Ant1	5795	LV	NT	-22000.00	-3.796376	20	PASS
11N40SIS O	Ant1	5795	HV	NT	-21000.00	-3.623814	20	PASS
11AC20SIS O	Ant1	5180	NV	NT	-17000.00	-3.281853	20	PASS
11AC20SIS O	Ant1	5180	LV	NT	-18000.00	-3.474903	20	PASS
11AC20SIS O	Ant1	5180	HV	NT	-19000.00	-3.667954	20	PASS
11AC20SIS O	Ant1	5200	NV	NT	-19000.00	-3.653846	20	PASS
11AC20SIS O	Ant1	5200	LV	NT	-19000.00	-3.653846	20	PASS
11AC20SIS O	Ant1	5200	HV	NT	-19000.00	-3.653846	20	PASS
11AC20SIS O	Ant1	5240	NV	NT	-20000.00	-3.816794	20	PASS
11AC20SIS O	Ant1	5240	LV	NT	-20000.00	-3.816794	20	PASS
11AC20SIS O	Ant1	5240	HV	NT	-20000.00	-3.816794	20	PASS
11AC20SIS O	Ant1	5745	NV	NT	-22000.00	-3.829417	20	PASS
11AC20SIS O	Ant1	5745	LV	NT	-22000.00	-3.829417	20	PASS
11AC20SIS O	Ant1	5745	HV	NT	-22000.00	-3.829417	20	PASS
11AC20SIS O	Ant1	5785	NV	NT	-22000.00	-3.802939	20	PASS
11AC20SIS O	Ant1	5785	LV	NT	-23000.00	-3.975799	20	PASS
11AC20SIS O	Ant1	5825	NV	NT	-20000.00	-3.433476	20	PASS
11AC20SIS	Ant1	5825	LV	NT	-20000.00	-3.433476	20	PASS



Report No.: PTC24030613302E-FC04

O								
11AC20SIS O	Ant1	5825	HV	NT	-20000.00	-3.433476	20	PASS
11AC40SIS O	Ant1	5190	NV	NT	-19000.00	-3.660886	20	PASS
11AC40SIS O	Ant1	5190	LV	NT	-19000.00	-3.660886	20	PASS
11AC40SIS O	Ant1	5190	HV	NT	-19000.00	-3.660886	20	PASS
11AC40SIS O	Ant1	5230	NV	NT	-20000.00	-3.824092	20	PASS
11AC40SIS O	Ant1	5230	LV	NT	-20000.00	-3.824092	20	PASS
11AC40SIS O	Ant1	5230	HV	NT	-20000.00	-3.824092	20	PASS
11AC40SIS O	Ant1	5755	NV	NT	-22000.00	-3.822763	20	PASS
11AC40SIS O	Ant1	5755	LV	NT	-22000.00	-3.822763	20	PASS
11AC40SIS O	Ant1	5755	HV	NT	-22000.00	-3.822763	20	PASS
11AC40SIS O	Ant1	5795	NV	NT	-23000.00	-3.968939	20	PASS
11AC40SIS O	Ant1	5795	LV	NT	-23000.00	-3.968939	20	PASS
11AC40SIS O	Ant1	5795	HV	NT	-23000.00	-3.968939	20	PASS
11AC80SIS O	Ant1	5210	NV	NT	-20000.00	-3.838772	20	PASS
11AC80SIS O	Ant1	5210	LV	NT	-20000.00	-3.838772	20	PASS
11AC80SIS O	Ant1	5210	HV	NT	-20000.00	-3.838772	20	PASS
11AC80SIS O	Ant1	5775	NV	NT	-22000.00	-3.809524	20	PASS
11AC80SIS O	Ant1	5775	LV	NT	-22000.00	-3.809524	20	PASS
11AC80SIS O	Ant1	5775	HV	NT	-22000.00	-3.809524	20	PASS



TestMode	Antenna	Channel	Temperature					
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	40000.00	7.722008	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	40000.00	7.722008	20	PASS
			NV	10	40000.00	7.722008	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	40000.00	7.722008	20	PASS
		5220	NV	50	40000.00	7.722008	20	PASS
			NV	-30	40000.00	7.662835	20	PASS
			NV	-20	40000.00	7.662835	20	PASS
			NV	-10	40000.00	7.662835	20	PASS
			NV	0	40000.00	7.662835	20	PASS
			NV	10	40000.00	7.662835	20	PASS
			NV	20	40000.00	7.662835	20	PASS
			NV	30	40000.00	7.662835	20	PASS
		5240	NV	40	40000.00	7.662835	20	PASS
			NV	50	40000.00	7.662835	20	PASS
			NV	-30	40000.00	7.633588	20	PASS
			NV	-20	40000.00	7.633588	20	PASS
			NV	-10	40000.00	7.633588	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	40000.00	7.633588	20	PASS
		5745	NV	30	40000.00	7.633588	20	PASS
			NV	40	40000.00	7.633588	20	PASS
			NV	50	40000.00	7.633588	20	PASS
			NV	-30	40000.00	6.962576	20	PASS
			NV	-20	40000.00	6.962576	20	PASS
			NV	-10	40000.00	6.962576	20	PASS
			NV	0	40000.00	6.962576	20	PASS
			NV	10	40000.00	6.962576	20	PASS
		5785	NV	20	40000.00	6.962576	20	PASS
			NV	30	40000.00	6.962576	20	PASS
			NV	40	40000.00	6.962576	20	PASS
			NV	50	40000.00	6.962576	20	PASS
			NV	-30	40000.00	6.914434	20	PASS
			NV	-20	40000.00	6.914434	20	PASS
			NV	-10	40000.00	6.914434	20	PASS
			NV	0	40000.00	6.914434	20	PASS
		5825	NV	10	40000.00	6.914434	20	PASS
			NV	20	40000.00	6.914434	20	PASS
			NV	30	40000.00	6.914434	20	PASS
			NV	40	40000.00	6.914434	20	PASS
			NV	50	40000.00	6.914434	20	PASS
			NV	-30	40000.00	6.866953	20	PASS
			NV	-20	40000.00	6.866953	20	PASS
			NV	-10	40000.00	6.866953	20	PASS
			NV	0	40000.00	6.866953	20	PASS
			NV	10	40000.00	6.866953	20	PASS
			NV	20	40000.00	6.866953	20	PASS



			NV	30	40000.00	6.866953	20	PASS
			NV	40	40000.00	6.866953	20	PASS
			NV	50	40000.00	6.866953	20	PASS
11N20SIS O	Ant1	5180	NV	-30	40000.00	7.722008	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	40000.00	7.722008	20	PASS
			NV	10	40000.00	7.722008	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	40000.00	7.722008	20	PASS
			NV	50	40000.00	7.722008	20	PASS
		5220	NV	-30	40000.00	7.662835	20	PASS
			NV	-20	40000.00	7.662835	20	PASS
			NV	-10	40000.00	7.662835	20	PASS
			NV	0	40000.00	7.662835	20	PASS
			NV	10	40000.00	7.662835	20	PASS
			NV	20	40000.00	7.662835	20	PASS
			NV	30	40000.00	7.662835	20	PASS
			NV	40	40000.00	7.662835	20	PASS
			NV	50	40000.00	7.662835	20	PASS
		5240	NV	-30	40000.00	7.633588	20	PASS
			NV	-20	40000.00	7.633588	20	PASS
			NV	-10	40000.00	7.633588	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	40000.00	7.633588	20	PASS
			NV	30	40000.00	7.633588	20	PASS
			NV	40	40000.00	7.633588	20	PASS
			NV	50	40000.00	7.633588	20	PASS
		5745	NV	-30	40000.00	6.962576	20	PASS
			NV	-20	40000.00	6.962576	20	PASS
			NV	-10	40000.00	6.962576	20	PASS
			NV	0	40000.00	6.962576	20	PASS
			NV	10	40000.00	6.962576	20	PASS
			NV	20	40000.00	6.962576	20	PASS
			NV	30	40000.00	6.962576	20	PASS
			NV	40	40000.00	6.962576	20	PASS
			NV	50	40000.00	6.962576	20	PASS
		5785	NV	-30	40000.00	6.914434	20	PASS
			NV	-20	40000.00	6.914434	20	PASS
			NV	-10	40000.00	6.914434	20	PASS
			NV	0	40000.00	6.914434	20	PASS
			NV	10	40000.00	6.914434	20	PASS
			NV	20	40000.00	6.914434	20	PASS
			NV	30	40000.00	6.914434	20	PASS
			NV	40	40000.00	6.914434	20	PASS
			NV	50	40000.00	6.914434	20	PASS
		5825	NV	-30	40000.00	6.866953	20	PASS
			NV	-20	40000.00	6.866953	20	PASS
			NV	-10	40000.00	6.866953	20	PASS
			NV	0	40000.00	6.866953	20	PASS
			NV	10	40000.00	6.866953	20	PASS
			NV	20	40000.00	6.866953	20	PASS
			NV	30	40000.00	6.866953	20	PASS
			NV	40	40000.00	6.866953	20	PASS



			NV	50	40000.00	6.866953	20	PASS
11N40SIS O	Ant1	5190	NV	-30	40000.00	7.707129	20	PASS
			NV	-20	40000.00	7.707129	20	PASS
			NV	-10	40000.00	7.707129	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	40000.00	7.707129	20	PASS
			NV	40	40000.00	7.707129	20	PASS
		5230	NV	50	40000.00	7.707129	20	PASS
			NV	-30	40000.00	7.648184	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	40000.00	7.648184	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	40000.00	7.648184	20	PASS
			NV	20	40000.00	7.648184	20	PASS
			NV	30	40000.00	7.648184	20	PASS
		5755	NV	40	40000.00	7.648184	20	PASS
			NV	50	40000.00	7.648184	20	PASS
			NV	-30	40000.00	6.950478	20	PASS
			NV	-20	40000.00	6.950478	20	PASS
			NV	-10	40000.00	6.950478	20	PASS
			NV	0	40000.00	6.950478	20	PASS
			NV	10	40000.00	6.950478	20	PASS
			NV	20	40000.00	6.950478	20	PASS
		5795	NV	30	40000.00	6.950478	20	PASS
			NV	40	40000.00	6.950478	20	PASS
			NV	50	40000.00	6.950478	20	PASS
			NV	-30	40000.00	6.902502	20	PASS
			NV	-20	40000.00	6.902502	20	PASS
			NV	-10	40000.00	6.902502	20	PASS
			NV	0	40000.00	6.902502	20	PASS
			NV	10	40000.00	6.902502	20	PASS
11AC20SIS O	Ant1	5180	NV	20	40000.00	6.902502	20	PASS
			NV	30	40000.00	6.902502	20	PASS
			NV	40	40000.00	6.902502	20	PASS
			NV	50	40000.00	6.902502	20	PASS
			NV	-30	40000.00	7.722008	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	40000.00	7.722008	20	PASS
		5220	NV	10	40000.00	7.722008	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	40000.00	7.722008	20	PASS
			NV	50	40000.00	7.722008	20	PASS
			NV	-30	40000.00	7.662835	20	PASS
			NV	-20	40000.00	7.662835	20	PASS
			NV	-10	40000.00	7.662835	20	PASS
			NV	0	40000.00	7.662835	20	PASS
		5240	NV	10	40000.00	7.662835	20	PASS
			NV	20	40000.00	7.662835	20	PASS
			NV	30	40000.00	7.662835	20	PASS
			NV	40	40000.00	7.662835	20	PASS
			NV	50	40000.00	7.662835	20	PASS
			NV	-30	40000.00	7.633588	20	PASS



			NV	-20	40000.00	7.633588	20	PASS
			NV	-10	40000.00	7.633588	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	40000.00	7.633588	20	PASS
			NV	30	40000.00	7.633588	20	PASS
			NV	40	40000.00	7.633588	20	PASS
			NV	50	40000.00	7.633588	20	PASS
		5745	NV	-30	40000.00	6.962576	20	PASS
			NV	-20	40000.00	6.962576	20	PASS
			NV	-10	40000.00	6.962576	20	PASS
			NV	0	40000.00	6.962576	20	PASS
			NV	10	40000.00	6.962576	20	PASS
			NV	20	40000.00	6.962576	20	PASS
			NV	30	40000.00	6.962576	20	PASS
			NV	40	40000.00	6.962576	20	PASS
		5785	NV	50	40000.00	6.962576	20	PASS
			NV	-30	40000.00	6.914434	20	PASS
			NV	-20	40000.00	6.914434	20	PASS
			NV	-10	40000.00	6.914434	20	PASS
			NV	0	40000.00	6.914434	20	PASS
			NV	10	40000.00	6.914434	20	PASS
			NV	20	40000.00	6.914434	20	PASS
			NV	30	40000.00	6.914434	20	PASS
		5825	NV	40	40000.00	6.914434	20	PASS
			NV	50	40000.00	6.914434	20	PASS
			NV	-30	40000.00	6.866953	20	PASS
			NV	-20	40000.00	6.866953	20	PASS
			NV	-10	40000.00	6.866953	20	PASS
			NV	0	40000.00	6.866953	20	PASS
			NV	10	40000.00	6.866953	20	PASS
			NV	20	40000.00	6.866953	20	PASS
11AC40SIS O	Ant1	5190	NV	-30	40000.00	7.707129	20	PASS
			NV	-20	40000.00	7.707129	20	PASS
			NV	-10	40000.00	7.707129	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	40000.00	7.707129	20	PASS
			NV	40	40000.00	7.707129	20	PASS
		5230	NV	50	40000.00	7.707129	20	PASS
			NV	-30	40000.00	7.648184	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	40000.00	7.648184	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	40000.00	7.648184	20	PASS
			NV	20	40000.00	7.648184	20	PASS
			NV	30	40000.00	7.648184	20	PASS
		5755	NV	40	40000.00	7.648184	20	PASS
			NV	50	40000.00	7.648184	20	PASS
			NV	-30	40000.00	6.950478	20	PASS
			NV	-20	40000.00	6.950478	20	PASS
			NV	-10	40000.00	6.950478	20	PASS



			NV	0	40000.00	6.950478	20	PASS
			NV	10	40000.00	6.950478	20	PASS
			NV	20	40000.00	6.950478	20	PASS
			NV	30	40000.00	6.950478	20	PASS
			NV	40	40000.00	6.950478	20	PASS
			NV	50	40000.00	6.950478	20	PASS
		5795	NV	-30	40000.00	6.902502	20	PASS
			NV	-20	40000.00	6.902502	20	PASS
			NV	-10	40000.00	6.902502	20	PASS
			NV	0	40000.00	6.902502	20	PASS
			NV	10	40000.00	6.902502	20	PASS
			NV	20	40000.00	6.902502	20	PASS
			NV	30	40000.00	6.902502	20	PASS
			NV	40	40000.00	6.902502	20	PASS
			NV	50	40000.00	6.902502	20	PASS
			NV	-30	0.00	0.000000	20	PASS
11AC80SIS O	Ant1	5210	NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS

TestMode	Antenna	Frequenc y[MHz]	Voltage [Vdc]	Temperat ure (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11N40SIS O	Ant1	5190	NV	-30	-18000.00	-3.468208	20	PASS
11N40SIS O	Ant1	5190	NV	-20	-18000.00	-3.468208	20	PASS
11N40SIS O	Ant1	5190	NV	-10	-18000.00	-3.468208	20	PASS
11N40SIS O	Ant1	5190	NV	0	-18000.00	-3.468208	20	PASS
11N40SIS O	Ant1	5190	NV	10	-18000.00	-3.468208	20	PASS
11N40SIS O	Ant1	5190	NV	20	-18000.00	-3.468208	20	PASS
11N40SIS O	Ant1	5190	NV	30	-18000.00	-3.468208	20	PASS
11N40SIS O	Ant1	5190	NV	40	-18000.00	-3.468208	20	PASS
11N40SIS O	Ant1	5190	NV	50	-18000.00	-3.468208	20	PASS
11N40SIS	Ant1	5230	NV	-30	-18000.00	-3.441683	20	PASS



O								
11N40SIS O	Ant1	5230	NV	-20	-18000.00	-3.441683	20	PASS
11N40SIS O	Ant1	5230	NV	-10	-18000.00	-3.441683	20	PASS
11N40SIS O	Ant1	5230	NV	0	-19000.00	-3.632887	20	PASS
11N40SIS O	Ant1	5230	NV	10	-19000.00	-3.632887	20	PASS
11N40SIS O	Ant1	5230	NV	20	-19000.00	-3.632887	20	PASS
11N40SIS O	Ant1	5230	NV	30	-19000.00	-3.632887	20	PASS
11N40SIS O	Ant1	5230	NV	40	-19000.00	-3.632887	20	PASS
11N40SIS O	Ant1	5230	NV	50	-19000.00	-3.632887	20	PASS
11N40SIS O	Ant1	5755	NV	-30	-21000.00	-3.649001	20	PASS
11N40SIS O	Ant1	5755	NV	-20	-21000.00	-3.649001	20	PASS
11N40SIS O	Ant1	5755	NV	-10	-21000.00	-3.649001	20	PASS
11N40SIS O	Ant1	5755	NV	0	-21000.00	-3.649001	20	PASS
11N40SIS O	Ant1	5755	NV	10	-21000.00	-3.649001	20	PASS
11N40SIS O	Ant1	5755	NV	20	-21000.00	-3.649001	20	PASS
11N40SIS O	Ant1	5755	NV	30	-21000.00	-3.649001	20	PASS
11N40SIS O	Ant1	5755	NV	40	-22000.00	-3.822763	20	PASS
11N40SIS O	Ant1	5755	NV	50	-22000.00	-3.822763	20	PASS
11N40SIS O	Ant1	5795	NV	-30	-22000.00	-3.796376	20	PASS
11N40SIS O	Ant1	5795	NV	-20	-22000.00	-3.796376	20	PASS
11N40SIS O	Ant1	5795	NV	-10	-22000.00	-3.796376	20	PASS
11N40SIS O	Ant1	5795	NV	0	-22000.00	-3.796376	20	PASS
11N40SIS O	Ant1	5795	NV	10	-22000.00	-3.796376	20	PASS
11N40SIS O	Ant1	5795	NV	20	-22000.00	-3.796376	20	PASS
11N40SIS O	Ant1	5795	NV	30	-22000.00	-3.796376	20	PASS
11N40SIS O	Ant1	5795	NV	40	-22000.00	-3.796376	20	PASS
11N40SIS O	Ant1	5795	NV	50	-22000.00	-3.796376	20	PASS
11AC20SIS O	Ant1	5180	NV	-30	-19000.00	-3.667954	20	PASS
11AC20SIS O	Ant1	5180	NV	-20	-19000.00	-3.667954	20	PASS



11AC20SIS O	Ant1	5180	NV	-10	-19000.00	-3.667954	20	PASS
11AC20SIS O	Ant1	5180	NV	0	-19000.00	-3.667954	20	PASS
11AC20SIS O	Ant1	5180	NV	10	-19000.00	-3.667954	20	PASS
11AC20SIS O	Ant1	5180	NV	20	-19000.00	-3.667954	20	PASS
11AC20SIS O	Ant1	5180	NV	30	-19000.00	-3.667954	20	PASS
11AC20SIS O	Ant1	5180	NV	40	-19000.00	-3.667954	20	PASS
11AC20SIS O	Ant1	5180	NV	50	-20000.00	-3.861004	20	PASS
11AC20SIS O	Ant1	5200	NV	-30	-20000.00	-3.846154	20	PASS
11AC20SIS O	Ant1	5200	NV	-20	-20000.00	-3.846154	20	PASS
11AC20SIS O	Ant1	5200	NV	-10	-20000.00	-3.846154	20	PASS
11AC20SIS O	Ant1	5200	NV	0	-20000.00	-3.846154	20	PASS
11AC20SIS O	Ant1	5200	NV	10	-20000.00	-3.846154	20	PASS
11AC20SIS O	Ant1	5200	NV	20	-20000.00	-3.846154	20	PASS
11AC20SIS O	Ant1	5200	NV	30	-20000.00	-3.846154	20	PASS
11AC20SIS O	Ant1	5200	NV	40	-20000.00	-3.846154	20	PASS
11AC20SIS O	Ant1	5200	NV	50	-20000.00	-3.846154	20	PASS
11AC20SIS O	Ant1	5240	NV	-30	-20000.00	-3.816794	20	PASS
11AC20SIS O	Ant1	5240	NV	-20	-20000.00	-3.816794	20	PASS
11AC20SIS O	Ant1	5240	NV	-10	-20000.00	-3.816794	20	PASS
11AC20SIS O	Ant1	5240	NV	0	-20000.00	-3.816794	20	PASS
11AC20SIS O	Ant1	5240	NV	10	-21000.00	-4.007634	20	PASS
11AC20SIS O	Ant1	5240	NV	20	-20000.00	-3.816794	20	PASS
11AC20SIS O	Ant1	5240	NV	30	-20000.00	-3.816794	20	PASS
11AC20SIS O	Ant1	5240	NV	40	-20000.00	-3.816794	20	PASS
11AC20SIS O	Ant1	5240	NV	50	-21000.00	-4.007634	20	PASS
11AC20SIS O	Ant1	5745	NV	-30	-22000.00	-3.829417	20	PASS
11AC20SIS O	Ant1	5745	NV	-20	-22000.00	-3.829417	20	PASS
11AC20SIS O	Ant1	5745	NV	-10	-22000.00	-3.829417	20	PASS
11AC20SIS	Ant1	5745	NV	0	-22000.00	-3.829417	20	PASS



O								
11AC20SIS O	Ant1	5745	NV	10	-22000.00	-3.829417	20	PASS
11AC20SIS O	Ant1	5745	NV	20	-23000.00	-4.003481	20	PASS
11AC20SIS O	Ant1	5745	NV	30	-23000.00	-4.003481	20	PASS
11AC20SIS O	Ant1	5745	NV	40	-23000.00	-4.003481	20	PASS
11AC20SIS O	Ant1	5745	NV	50	-23000.00	-4.003481	20	PASS
11AC20SIS O	Ant1	5825	NV	-30	-20000.00	-3.433476	20	PASS
11AC20SIS O	Ant1	5825	NV	-20	-21000.00	-3.605150	20	PASS
11AC20SIS O	Ant1	5825	NV	-10	-21000.00	-3.605150	20	PASS
11AC20SIS O	Ant1	5825	NV	0	-21000.00	-3.605150	20	PASS
11AC20SIS O	Ant1	5825	NV	10	-21000.00	-3.605150	20	PASS
11AC20SIS O	Ant1	5825	NV	20	-21000.00	-3.605150	20	PASS
11AC20SIS O	Ant1	5825	NV	30	-21000.00	-3.605150	20	PASS
11AC20SIS O	Ant1	5825	NV	40	-21000.00	-3.605150	20	PASS
11AC20SIS O	Ant1	5825	NV	50	-22000.00	-3.776824	20	PASS
11AC40SIS O	Ant1	5190	NV	-30	-19000.00	-3.660886	20	PASS
11AC40SIS O	Ant1	5190	NV	-20	-19000.00	-3.660886	20	PASS
11AC40SIS O	Ant1	5190	NV	-10	-19000.00	-3.660886	20	PASS
11AC40SIS O	Ant1	5190	NV	0	-19000.00	-3.660886	20	PASS
11AC40SIS O	Ant1	5190	NV	10	-19000.00	-3.660886	20	PASS
11AC40SIS O	Ant1	5190	NV	20	-19000.00	-3.660886	20	PASS
11AC40SIS O	Ant1	5190	NV	30	-20000.00	-3.853565	20	PASS
11AC40SIS O	Ant1	5190	NV	40	-20000.00	-3.853565	20	PASS
11AC40SIS O	Ant1	5190	NV	50	-20000.00	-3.853565	20	PASS
11AC40SIS O	Ant1	5230	NV	-30	-20000.00	-3.824092	20	PASS
11AC40SIS O	Ant1	5230	NV	-20	-20000.00	-3.824092	20	PASS
11AC40SIS O	Ant1	5230	NV	-10	-20000.00	-3.824092	20	PASS
11AC40SIS O	Ant1	5230	NV	0	-20000.00	-3.824092	20	PASS
11AC40SIS O	Ant1	5230	NV	10	-20000.00	-3.824092	20	PASS



11AC40SIS O	Ant1	5230	NV	20	-20000.00	-3.824092	20	PASS
11AC40SIS O	Ant1	5230	NV	30	-20000.00	-3.824092	20	PASS
11AC40SIS O	Ant1	5230	NV	40	-20000.00	-3.824092	20	PASS
11AC40SIS O	Ant1	5230	NV	50	-20000.00	-3.824092	20	PASS
11AC40SIS O	Ant1	5755	NV	-30	-22000.00	-3.822763	20	PASS
11AC40SIS O	Ant1	5755	NV	-20	-22000.00	-3.822763	20	PASS
11AC40SIS O	Ant1	5755	NV	-10	-22000.00	-3.822763	20	PASS
11AC40SIS O	Ant1	5755	NV	0	-23000.00	-3.996525	20	PASS
11AC40SIS O	Ant1	5755	NV	10	-23000.00	-3.996525	20	PASS
11AC40SIS O	Ant1	5755	NV	20	-23000.00	-3.996525	20	PASS
11AC40SIS O	Ant1	5755	NV	30	-22000.00	-3.822763	20	PASS
11AC40SIS O	Ant1	5755	NV	40	-23000.00	-3.996525	20	PASS
11AC40SIS O	Ant1	5755	NV	50	-23000.00	-3.996525	20	PASS
11AC40SIS O	Ant1	5795	NV	-30	-23000.00	-3.968939	20	PASS
11AC40SIS O	Ant1	5795	NV	-20	-23000.00	-3.968939	20	PASS
11AC40SIS O	Ant1	5795	NV	-10	-23000.00	-3.968939	20	PASS
11AC40SIS O	Ant1	5795	NV	0	-23000.00	-3.968939	20	PASS
11AC40SIS O	Ant1	5795	NV	10	-23000.00	-3.968939	20	PASS
11AC40SIS O	Ant1	5795	NV	20	-23000.00	-3.968939	20	PASS
11AC40SIS O	Ant1	5795	NV	30	-23000.00	-3.968939	20	PASS
11AC40SIS O	Ant1	5795	NV	40	-23000.00	-3.968939	20	PASS
11AC40SIS O	Ant1	5795	NV	50	-23000.00	-3.968939	20	PASS
11AC80SIS O	Ant1	5210	NV	-30	-20000.00	-3.838772	20	PASS
11AC80SIS O	Ant1	5210	NV	-20	-20000.00	-3.838772	20	PASS
11AC80SIS O	Ant1	5210	NV	-10	-20000.00	-3.838772	20	PASS
11AC80SIS O	Ant1	5210	NV	0	-20000.00	-3.838772	20	PASS
11AC80SIS O	Ant1	5210	NV	10	-20000.00	-3.838772	20	PASS
11AC80SIS O	Ant1	5210	NV	20	-20000.00	-3.838772	20	PASS
11AC80SIS	Ant1	5210	NV	30	-21000.00	-4.030710	20	PASS



Report No.: PTC24030613302E-FC04

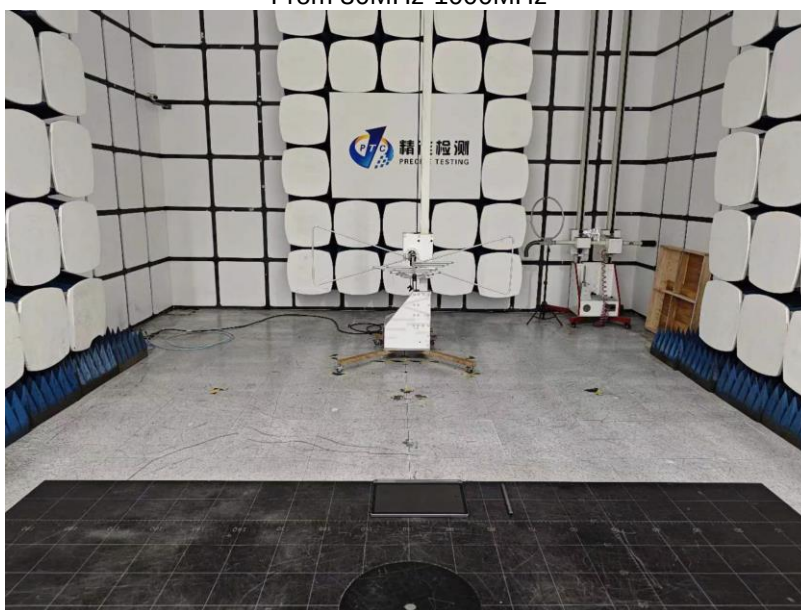
O								
11AC80SIS O	Ant1	5210	NV	40	-20000.00	-3.838772	20	PASS
11AC80SIS O	Ant1	5210	NV	50	-20000.00	-3.838772	20	PASS
11AC80SIS O	Ant1	5775	NV	-30	-22000.00	-3.809524	20	PASS
11AC80SIS O	Ant1	5775	NV	-20	-22000.00	-3.809524	20	PASS
11AC80SIS O	Ant1	5775	NV	-10	-22000.00	-3.809524	20	PASS
11AC80SIS O	Ant1	5775	NV	0	-22000.00	-3.809524	20	PASS
11AC80SIS O	Ant1	5775	NV	10	-22000.00	-3.809524	20	PASS
11AC80SIS O	Ant1	5775	NV	20	-22000.00	-3.809524	20	PASS
11AC80SIS O	Ant1	5775	NV	30	-22000.00	-3.809524	20	PASS
11AC80SIS O	Ant1	5775	NV	40	-22000.00	-3.809524	20	PASS
11AC80SIS O	Ant1	5775	NV	50	-22000.00	-3.809524	20	PASS

11 Test Setup

Conducted Emissions



Radiated Spurious Emissions
From 30MHz-1000MHz

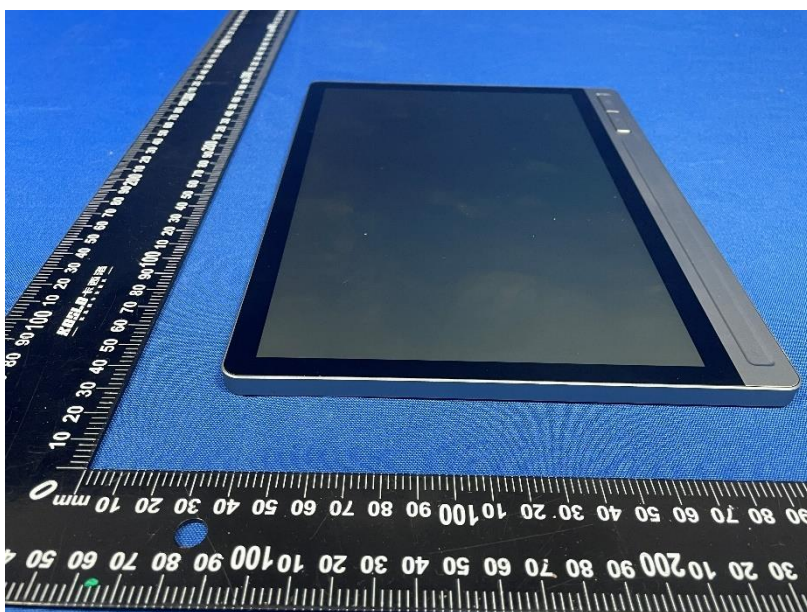


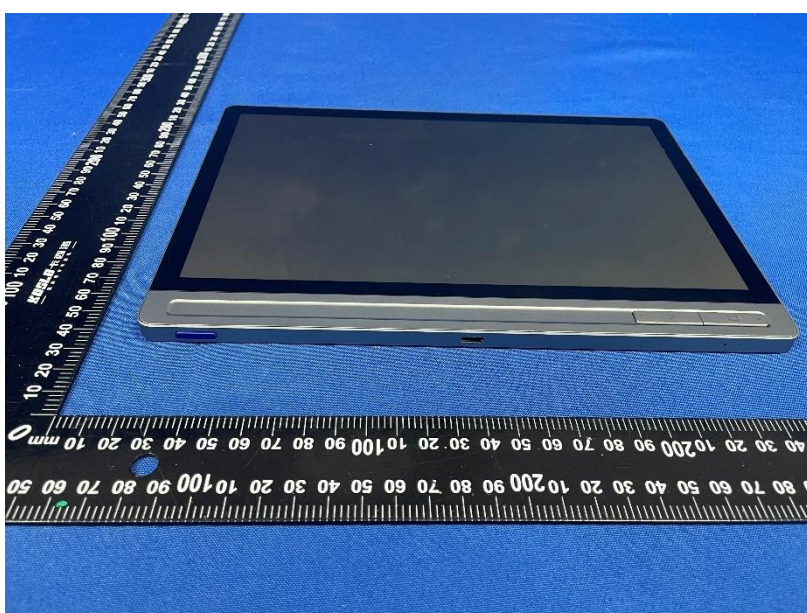
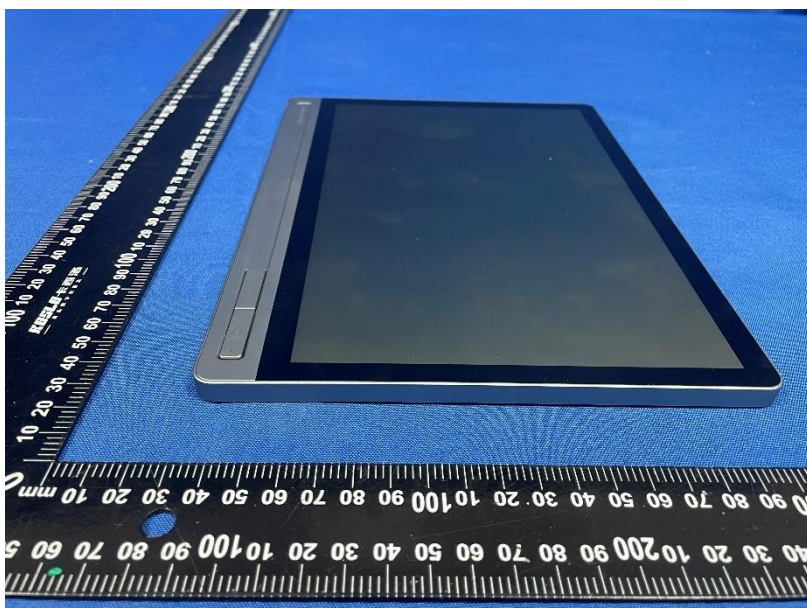
Test frequency from Above 1GHz

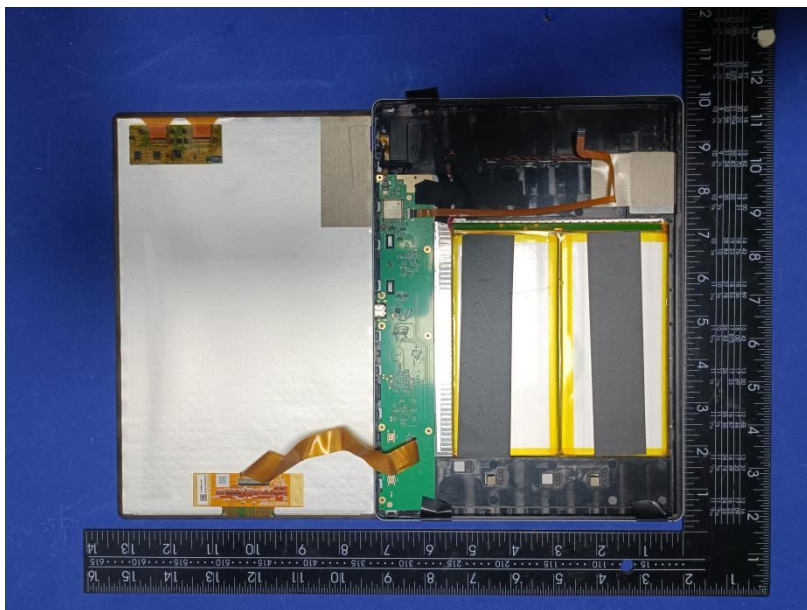
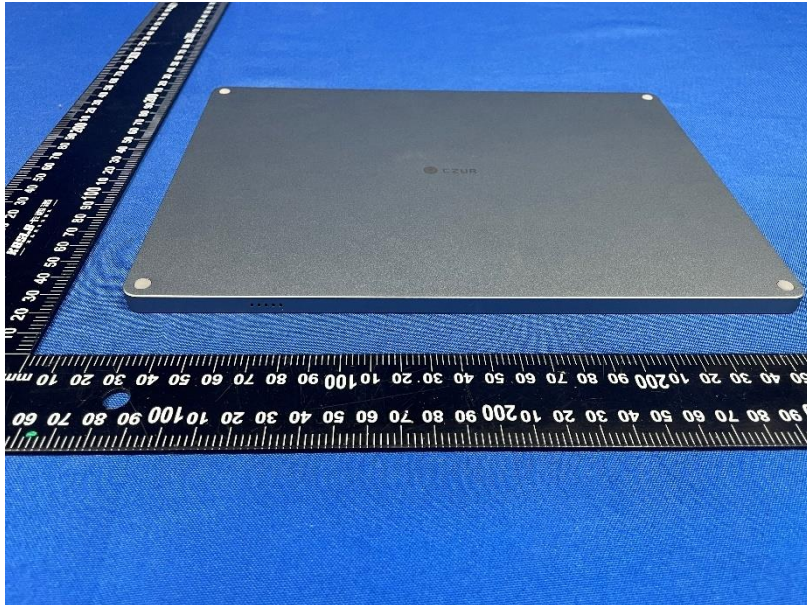


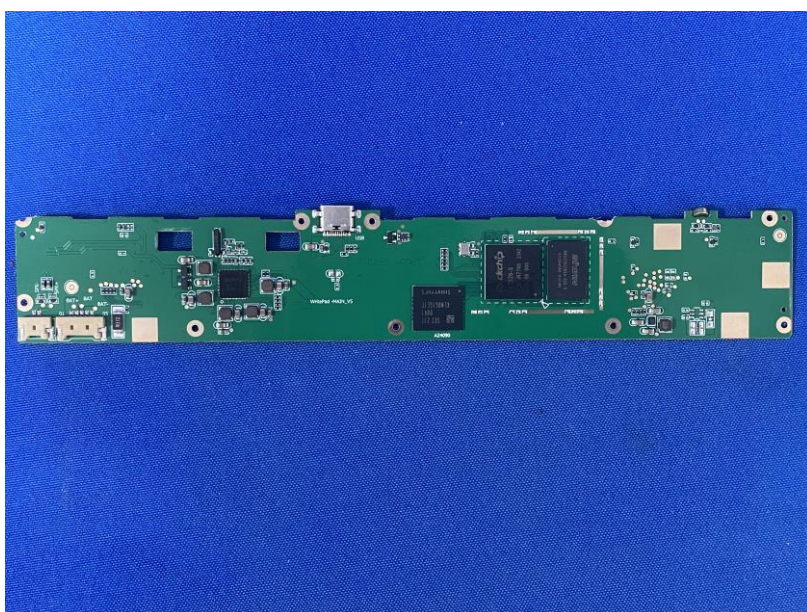
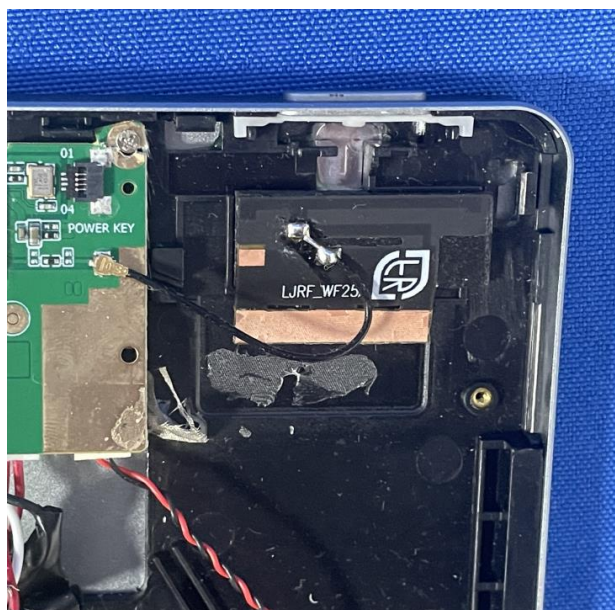
12 EUT PHOTOS

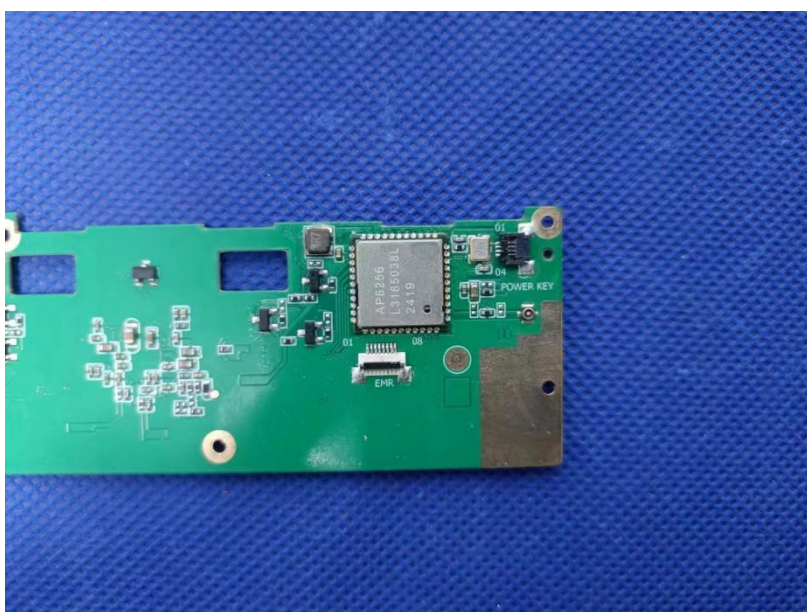
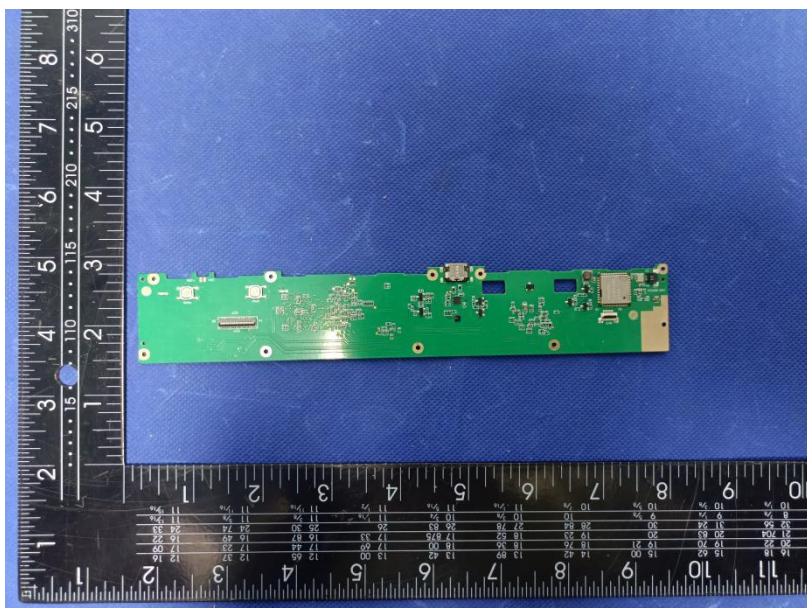


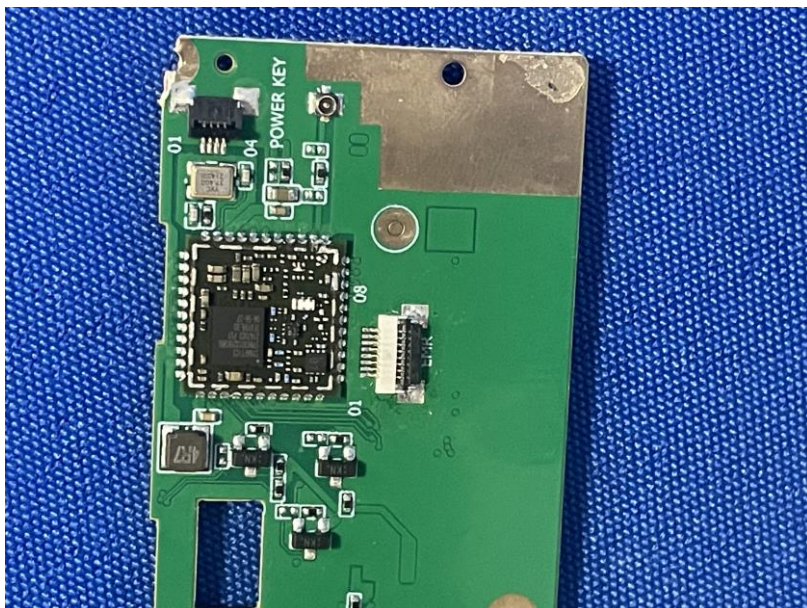


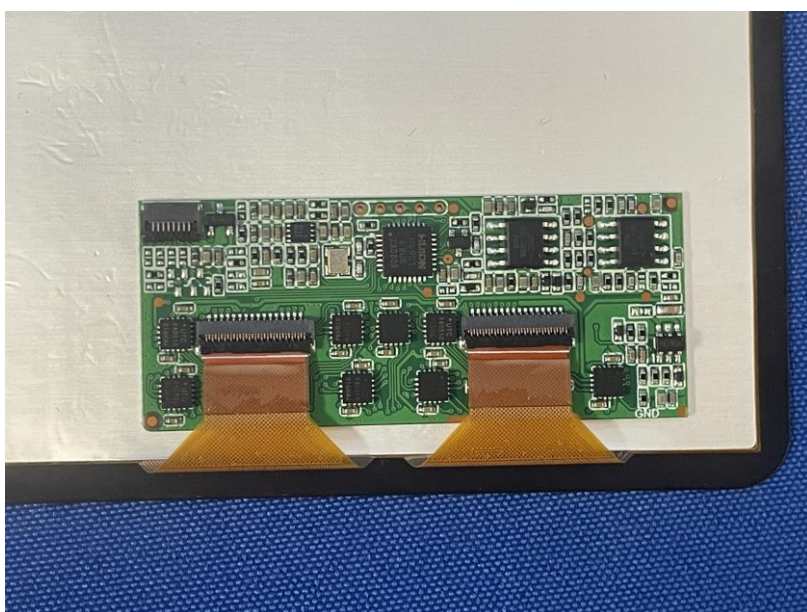
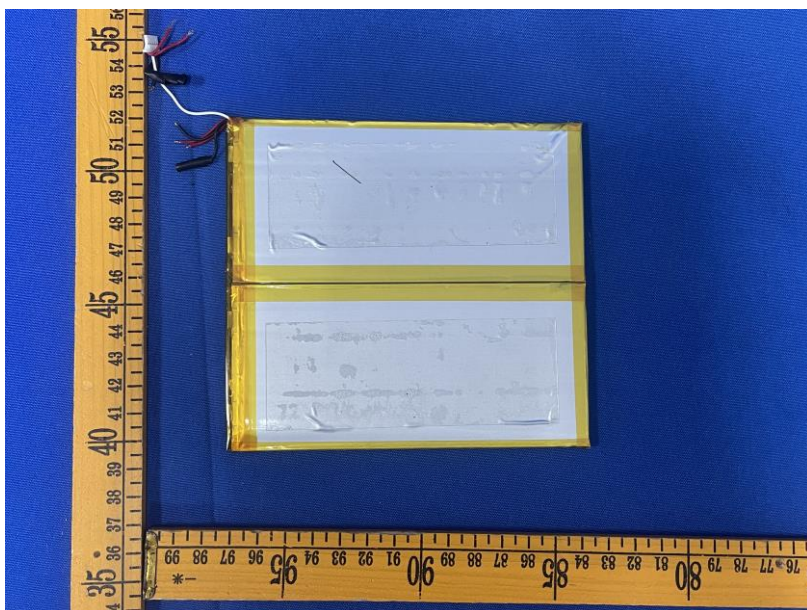


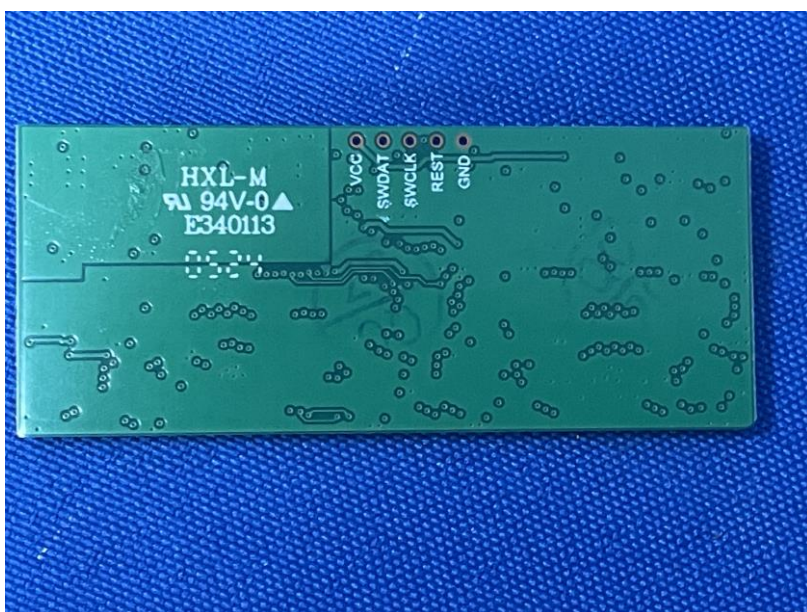
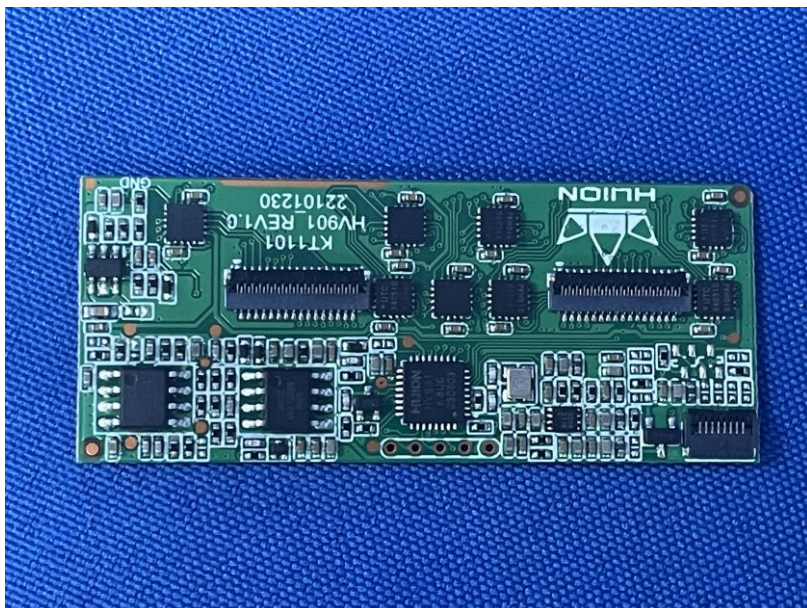












*****THE END REPORT*****