



Appendix E

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: Tablet

Test Model: 8WB1

Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling.zhu
Supervised by:	Libu



E.1 6dB Bandwidth

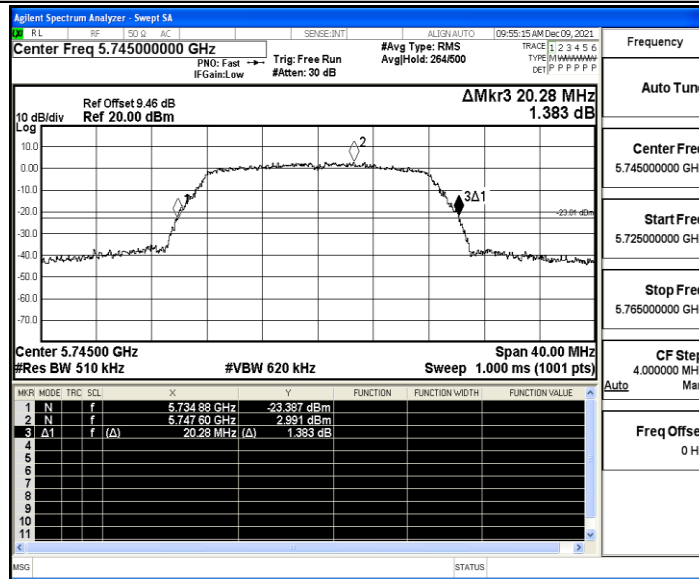
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	20.280	5734.880	5755.160	---	PASS
		5785	20.200	5774.920	5795.120	---	PASS
		5825	20.160	5814.920	5835.080	---	PASS
11N20SISO	Ant1	5745	20.840	5734.520	5755.360	---	PASS
		5785	20.640	5774.680	5795.320	---	PASS
		5825	20.720	5814.640	5835.360	---	PASS
11N40SISO	Ant1	5755	40.480	5734.680	5775.160	---	PASS
		5795	40.240	5774.920	5815.160	---	PASS
11AC20SISO	Ant1	5745	20.720	5734.720	5755.440	---	PASS
		5785	20.800	5774.640	5795.440	---	PASS
		5825	20.800	5814.560	5835.360	---	PASS
11AC40SISO	Ant1	5755	40.720	5734.760	5775.480	---	PASS
		5795	40.160	5774.920	5815.080	---	PASS
11AC80SISO	Ant1	5775	80.160	5735.000	5815.160	---	PASS

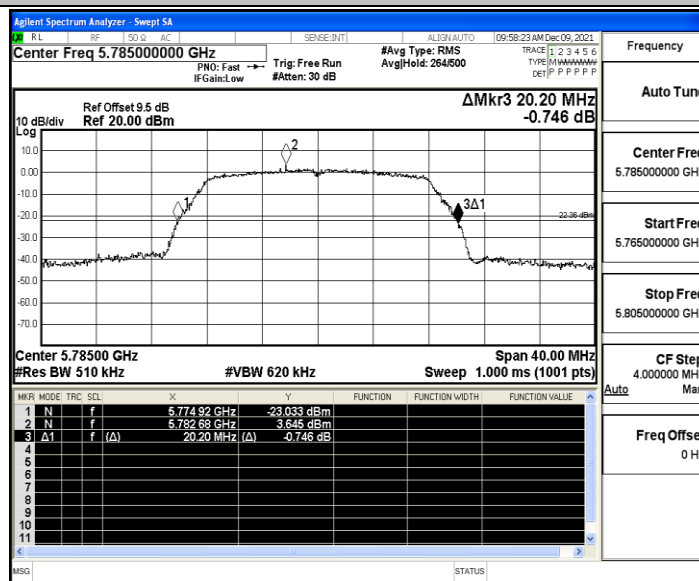


Test Graphs

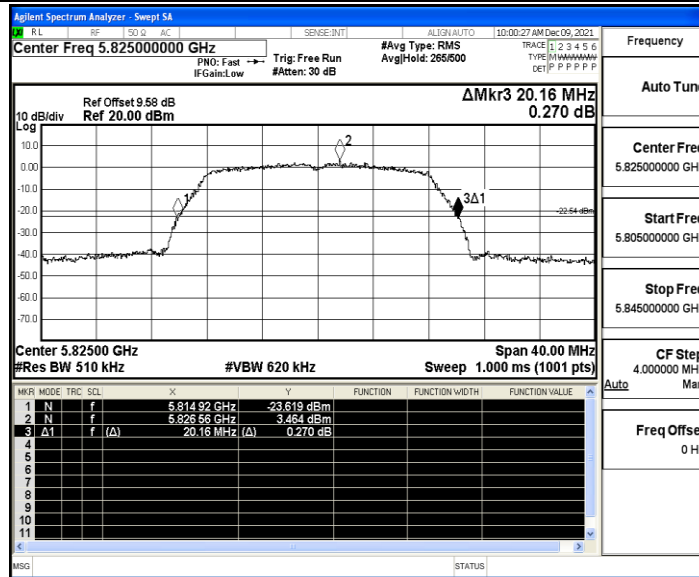
11A_Ant1_5745



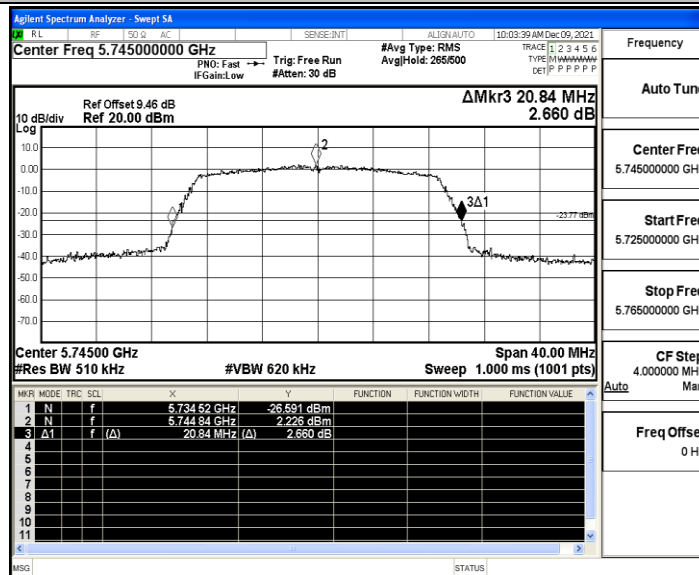
11A_Ant1_5785



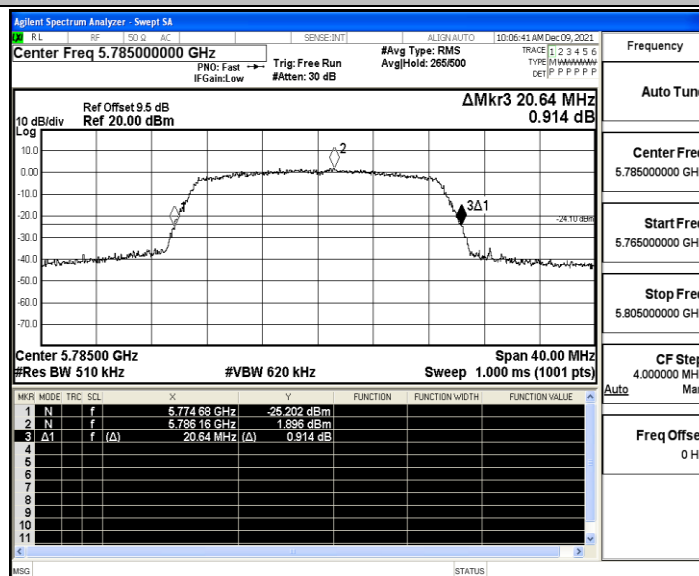
11A_Ant1_5825



11N20SISO_Ant1_5745

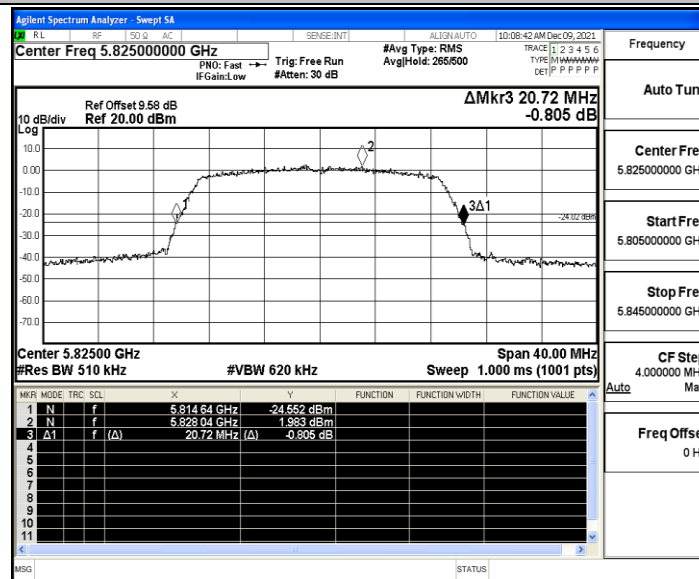


11N20SISO_Ant1_5785

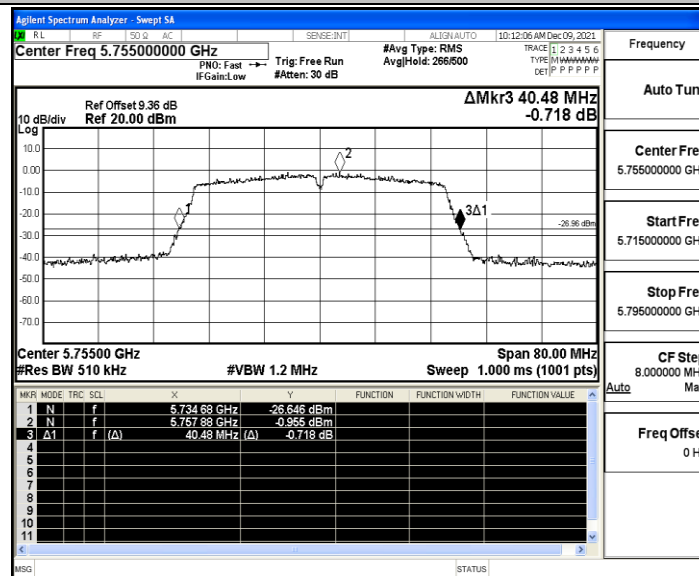




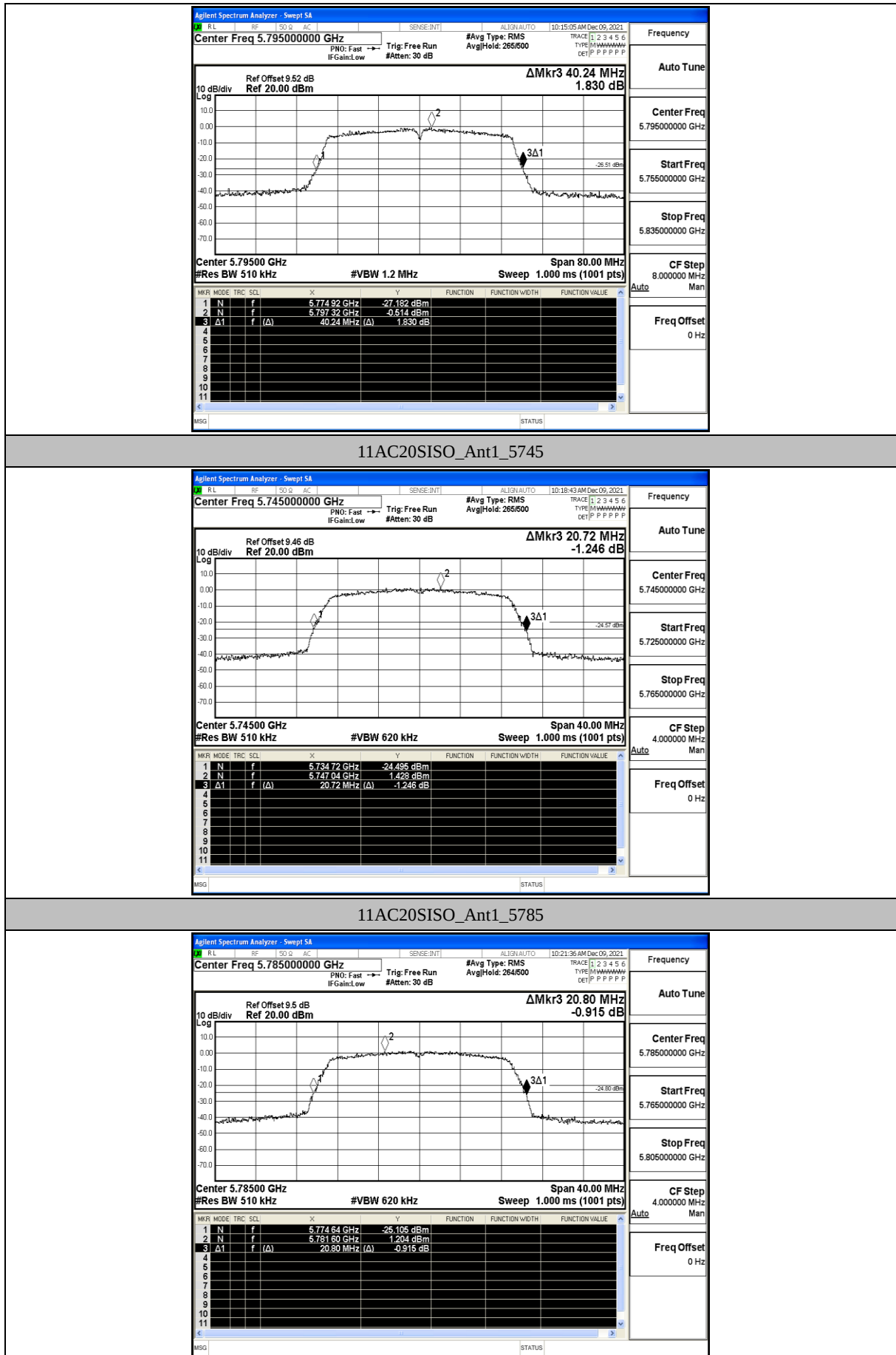
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755

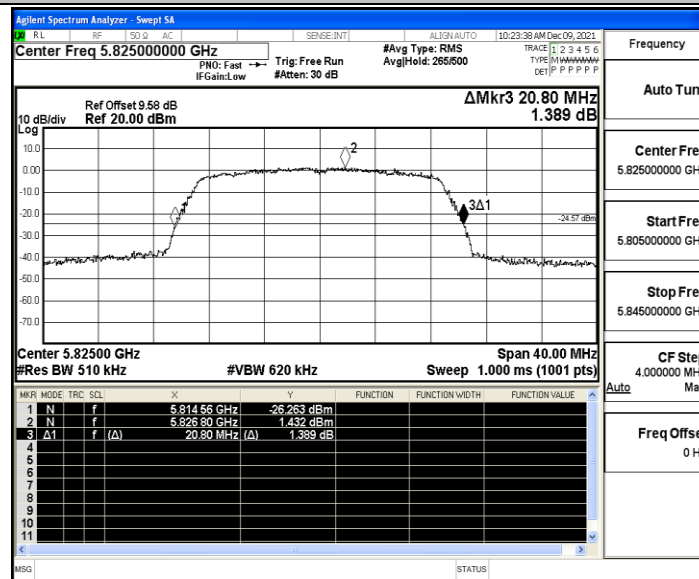


11N40SISO_Ant1_5795

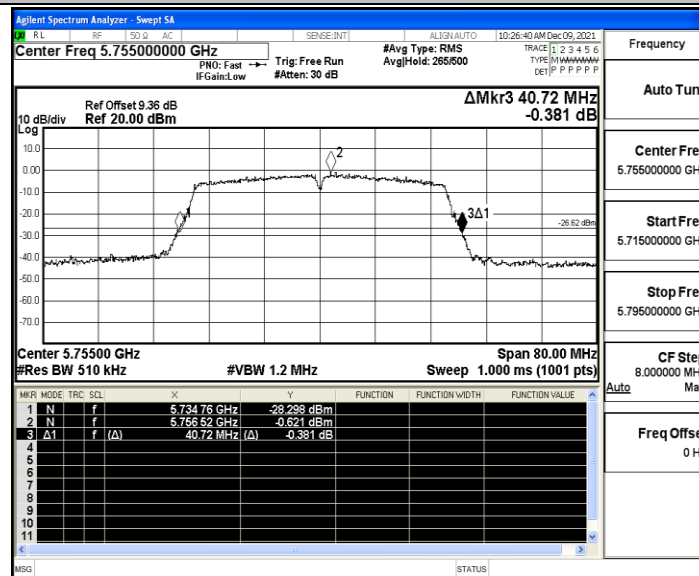




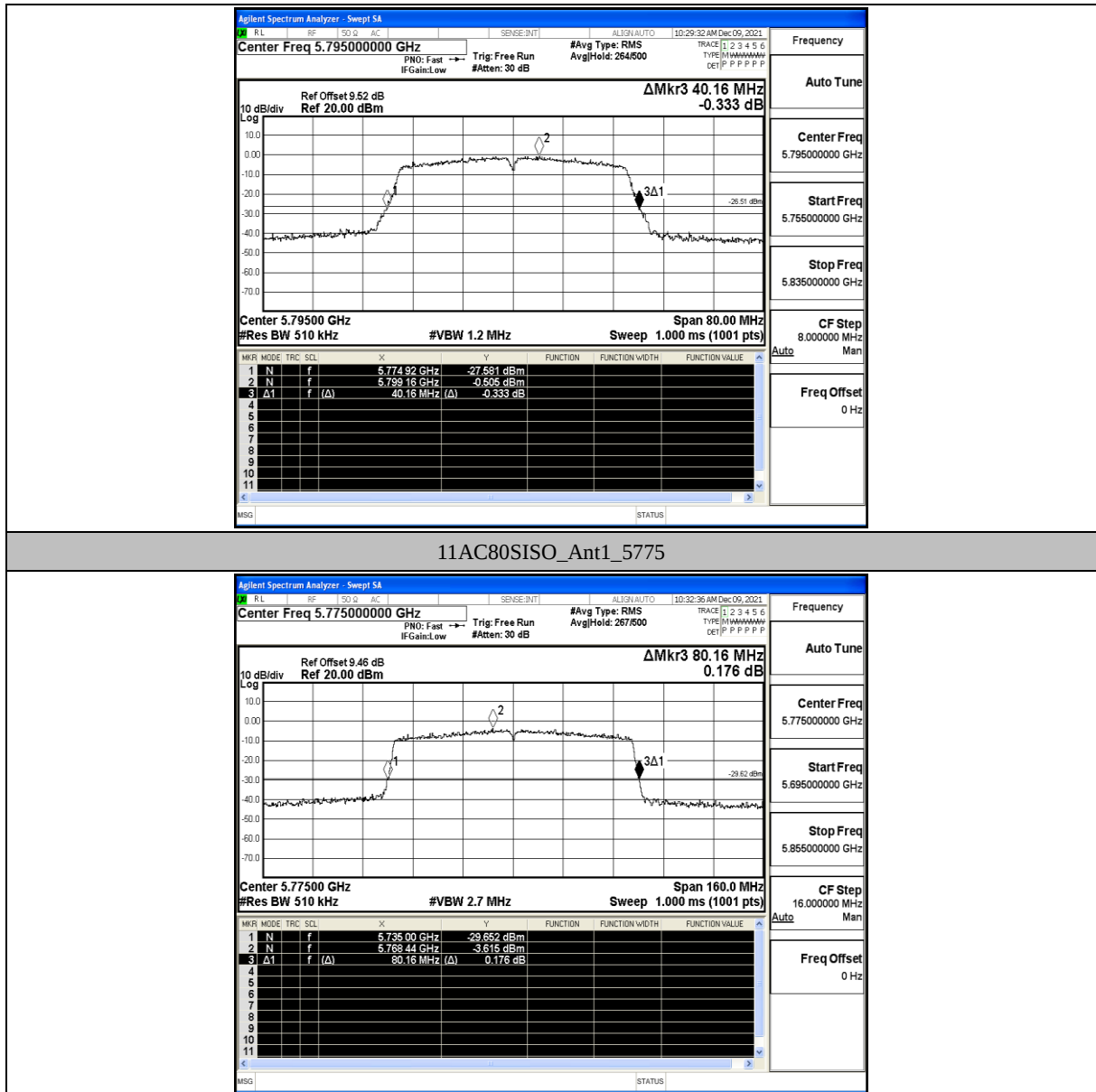
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





E.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	12.14	≤ 30	PASS
		5785	12.50	≤ 30	PASS
		5825	12.73	≤ 30	PASS
11N20SISO	Ant1	5745	12.60	≤ 30	PASS
		5785	12.32	≤ 30	PASS
		5825	12.45	≤ 30	PASS
11N40SISO	Ant1	5755	11.91	≤ 30	PASS
		5795	11.40	≤ 30	PASS
11AC20SISO	Ant1	5745	11.58	≤ 30	PASS
		5785	11.98	≤ 30	PASS
		5825	11.40	≤ 30	PASS
11AC40SISO	Ant1	5755	11.78	≤ 30	PASS
		5795	11.44	≤ 30	PASS
11AC80SISO	Ant1	5775	11.04	≤ 30	PASS

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



E.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	-3.73	≤ 30	PASS
		5785	-4.57	≤ 30	PASS
		5825	-4.19	≤ 30	PASS
11N20SISO	Ant1	5745	-4.47	≤ 30	PASS
		5785	-4.54	≤ 30	PASS
		5825	-4.67	≤ 30	PASS
11N40SISO	Ant1	5755	-8.27	≤ 30	PASS
		5795	-7.03	≤ 30	PASS
11AC20SISO	Ant1	5745	-5.33	≤ 30	PASS
		5785	-5.12	≤ 30	PASS
		5825	-4.58	≤ 30	PASS
11AC40SISO	Ant1	5755	-8.34	≤ 30	PASS
		5795	-7.34	≤ 30	PASS
11AC80SISO	Ant1	5775	-11.19	≤ 30	PASS

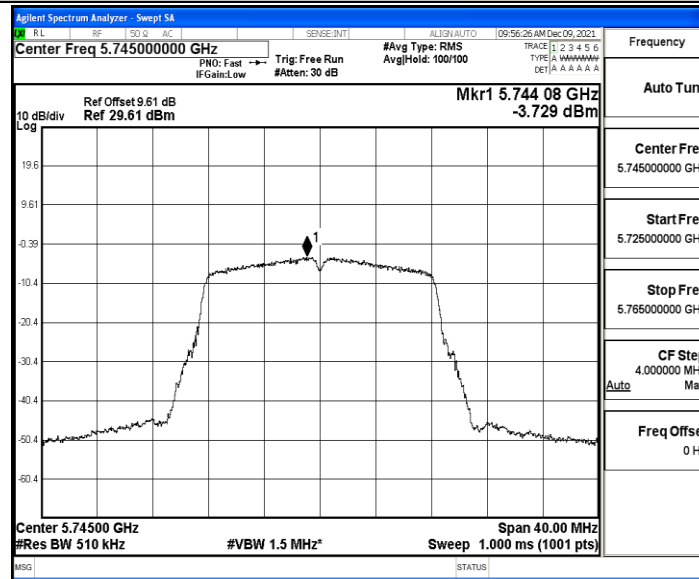
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

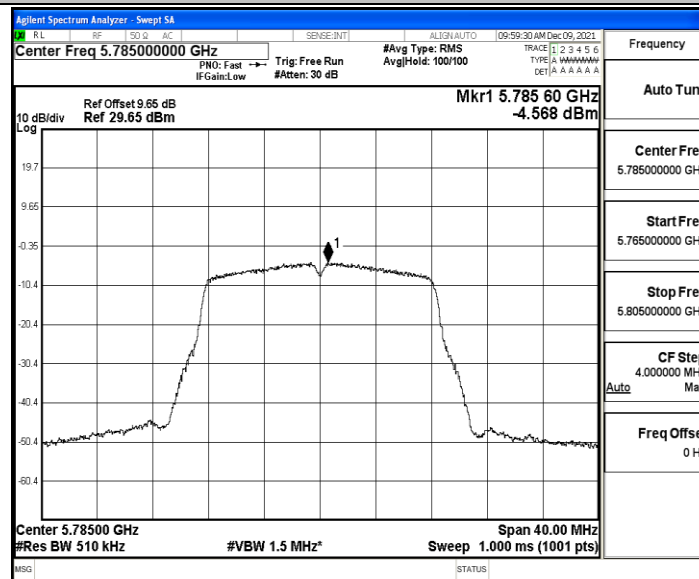


Test Graphs

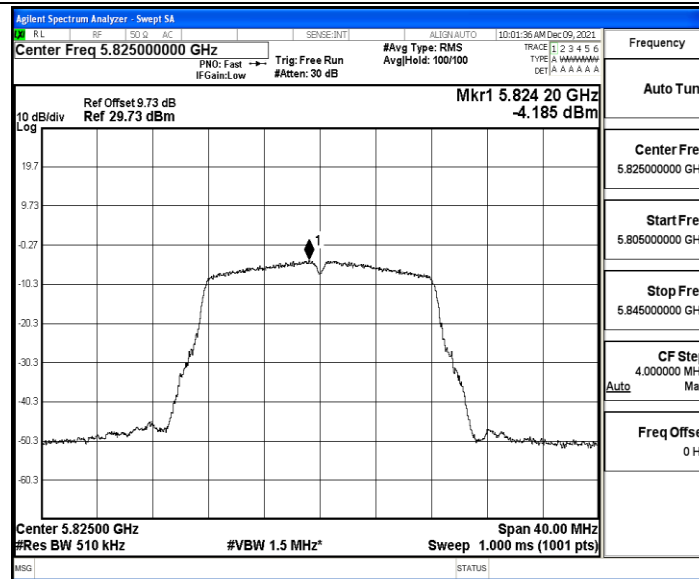
11A_Ant1_5745



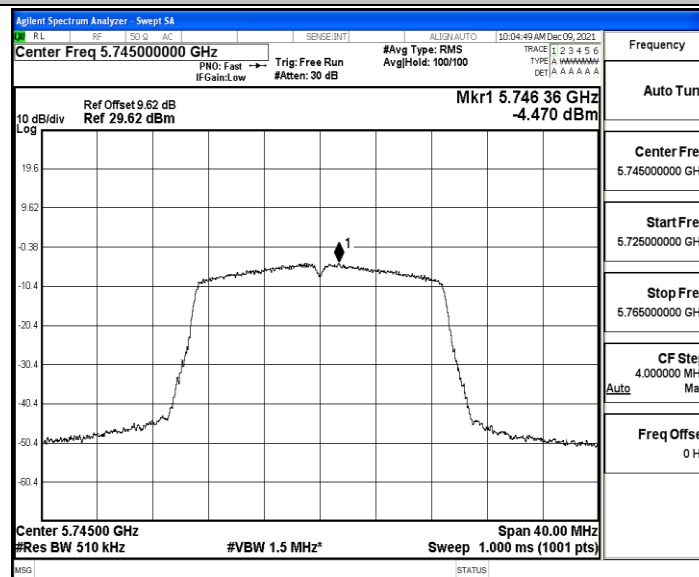
11A_Ant1_5785



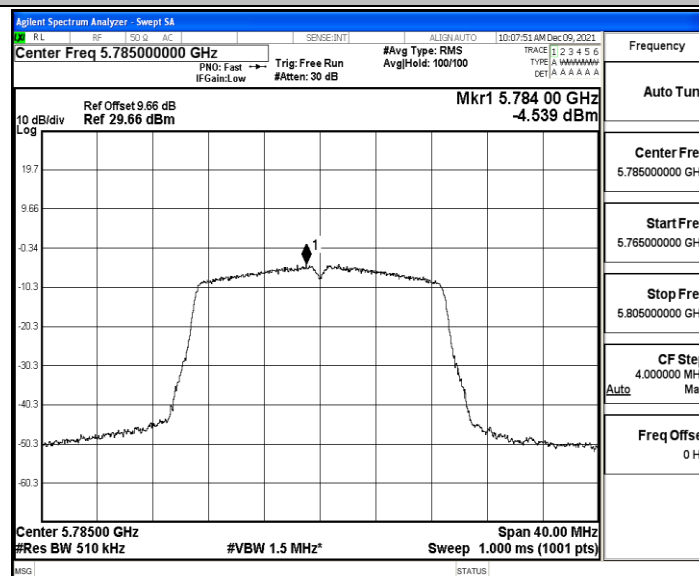
11A_Ant1_5825



11N20SISO_Ant1_5745

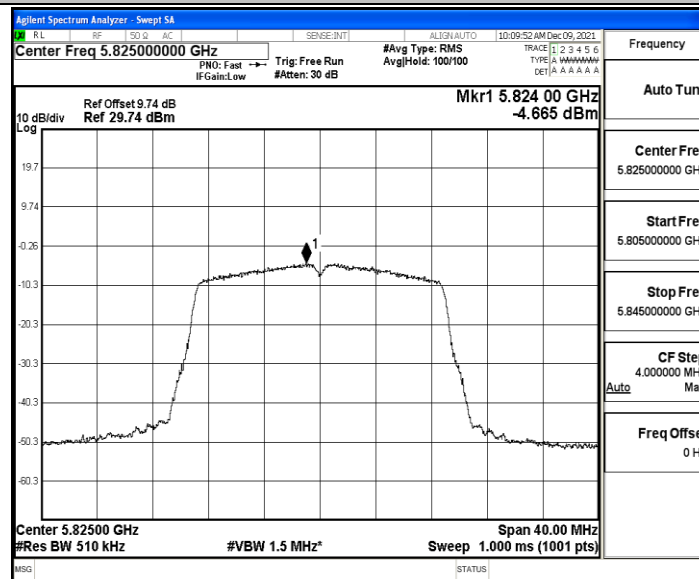


11N20SISO_Ant1_5785

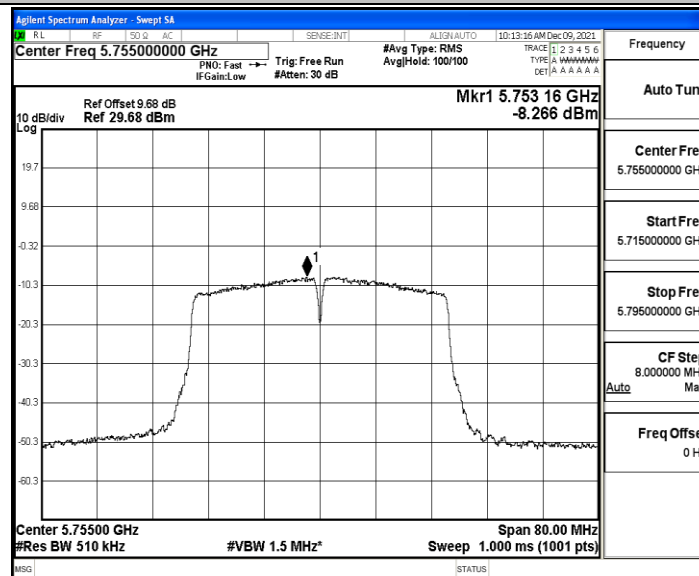




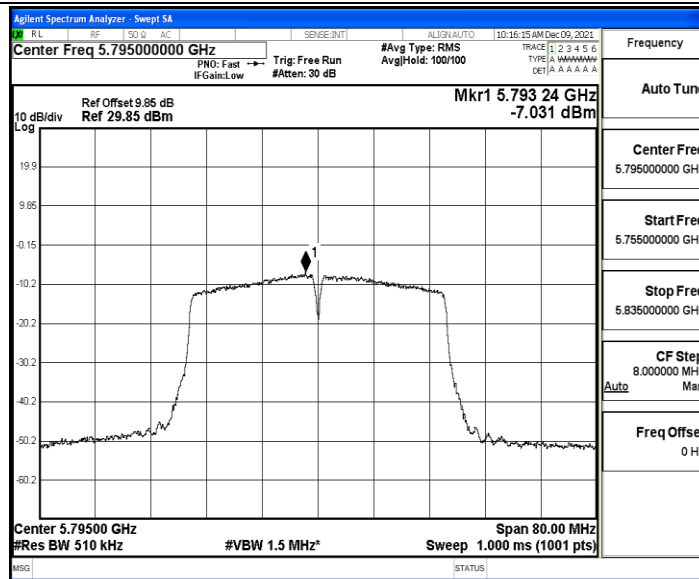
11N20SISO_Ant1_5825



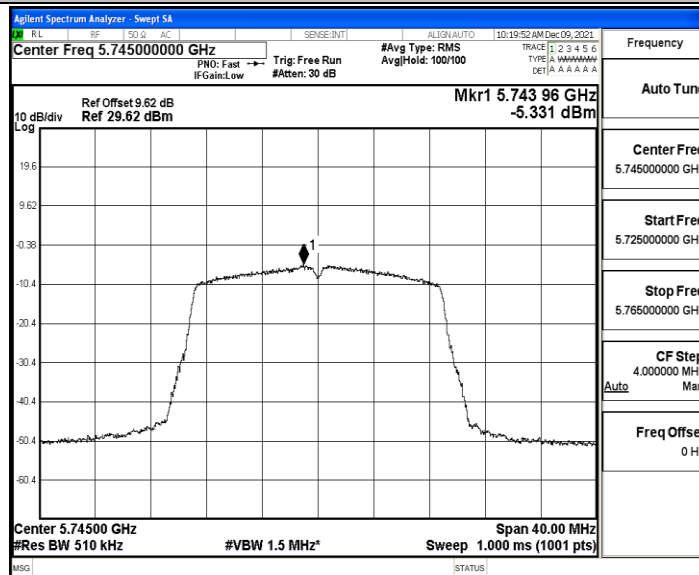
11N40SISO_Ant1_5755



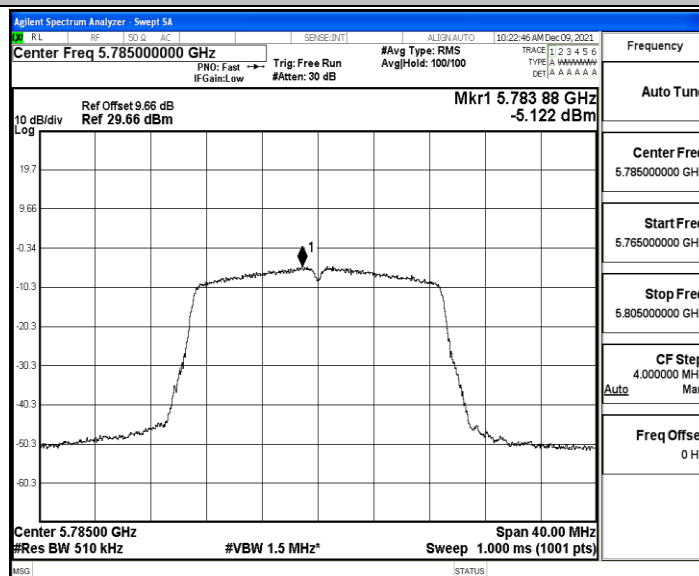
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

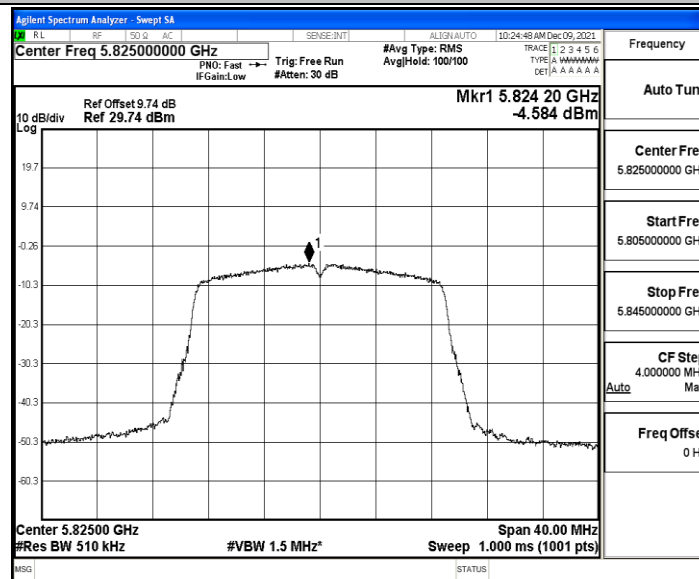


11AC20SISO_Ant1_5785

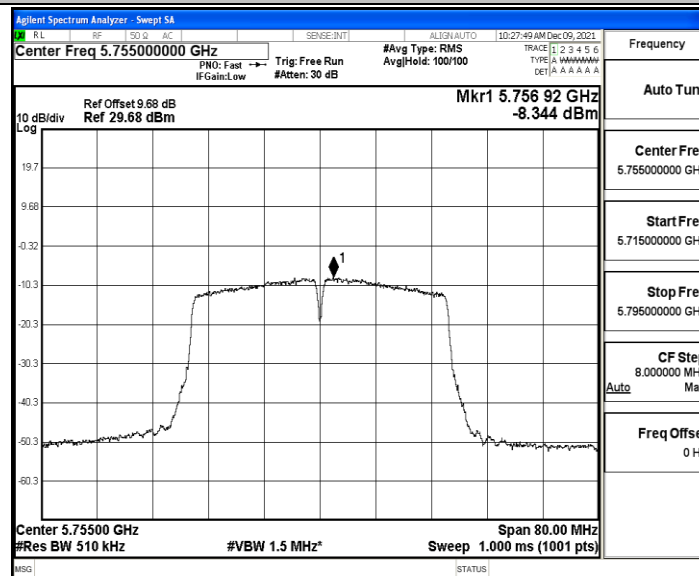




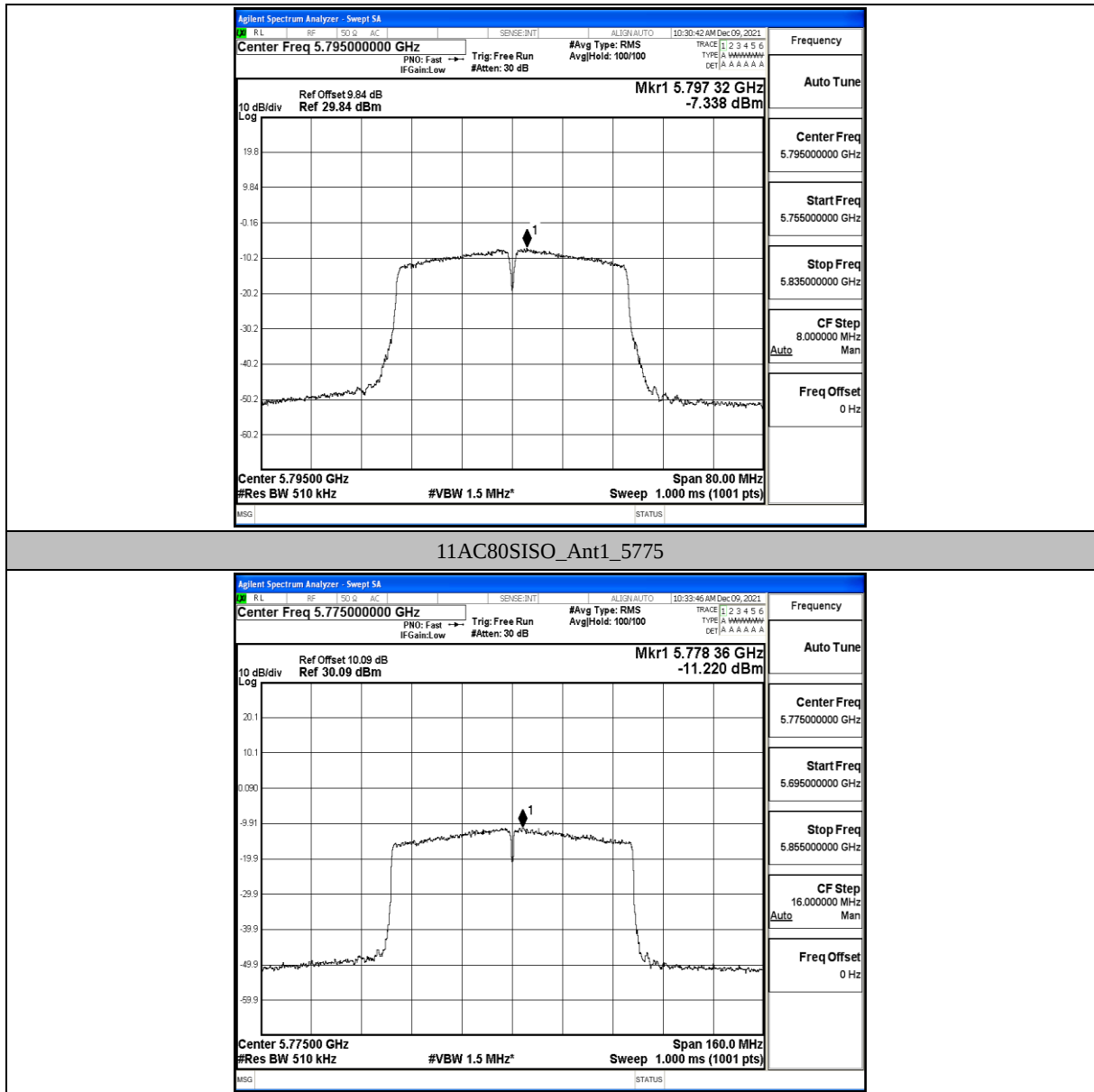
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





E.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-40.171	≤-27.00	---	---	PASS
				Peak	5700.000	-39.28	≤10.00	---	---	PASS
				Peak	5720.000	-38.61	≤15.60	---	---	PASS
				Peak	5725.000	-37.63	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-39.42	≤15.60	---	---	PASS
				Peak	5855.000	-38.56	≤27.00	---	---	PASS
				Peak	5875.000	-38.11	≤15.60	---	---	PASS
				Peak	5925.000	-38.23	≤10.00	---	---	PASS
11N20SIS O	Ant1	Low	5745	Peak	5650.000	-40.757	≤-27.00	---	---	PASS
				Peak	5700.000	-37.96	≤10.00	---	---	PASS
				Peak	5720.000	-37.36	≤15.60	---	---	PASS
				Peak	5725.000	-36.94	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-39.291	≤15.60	---	---	PASS
				Peak	5855.000	-40.31	≤27.00	---	---	PASS
				Peak	5875.000	-39.66	≤15.60	---	---	PASS
				Peak	5925.000	-39.12	≤10.00	---	---	PASS
11N40SIS O	Ant1	Low	5755	Peak	5650.000	-39.283	≤-27.00	---	---	PASS
				Peak	5700.000	-37.64	≤10.00	---	---	PASS
				Peak	5720.000	-36.29	≤15.60	---	---	PASS
				Peak	5725.000	-35.08	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-40.029	≤15.60	---	---	PASS
				Peak	5855.000	-39.59	≤27.00	---	---	PASS
				Peak	5875.000	-39.39	≤15.60	---	---	PASS
				Peak	5925.000	-39.47	≤10.00	---	---	PASS
11AC20SI SO	Ant1	Low	5745	Peak	5650.000	-39.627	≤-27.00	---	---	PASS
				Peak	5700.000	-39.98	≤10.00	---	---	PASS
				Peak	5720.000	-39.43	≤15.60	---	---	PASS
				Peak	5725.000	-38.65	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-38.47	≤15.60	---	---	PASS
				Peak	5855.000	-40.11	≤27.00	---	---	PASS
				Peak	5875.000	-38.51	≤15.60	---	---	PASS
				Peak	5925.000	-40.66	≤10.00	---	---	PASS
11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-40.008	≤-27.00	---	---	PASS
				Peak	5700.000	-38.2	≤10.00	---	---	PASS
				Peak	5720.000	-37.33	≤15.60	---	---	PASS
				Peak	5725.000	-36.72	≤27.00	---	---	PASS



		High	5795	Peak	5850.000	-39.378	≤ 15.60	---	---	PASS
				Peak	5855.000	-39.15	≤ 27.00	---	---	PASS
				Peak	5875.000	-39.07	≤ 15.60	---	---	PASS
				Peak	5925.000	-39.4	≤ 10.00	- - -	- - -	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-41.599	≤ -27.00	---	---	PASS
				Peak	5700.000	-39.87	≤ 10.00	---	---	PASS
				Peak	5720.000	-40.92	≤ 15.60	---	---	PASS
				Peak	5725.000	-39.98	≤ 27.00	- - -	- - -	PASS
		High	5775	Peak	5850.000	-39.286	≤ 15.60	---	---	PASS
				Peak	5855.000	-40.09	≤ 27.00	---	---	PASS
				Peak	5875.000	-39.38	≤ 15.60	---	---	PASS
				Peak	5925.000	-40.89	≤ 10.00	- - -	- - -	PASS

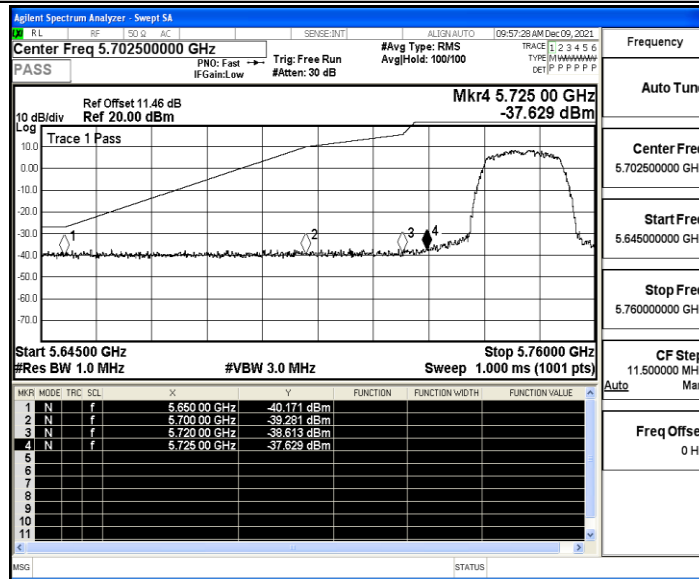
Note:

1. The Antenna Gain is compensated in the graph.

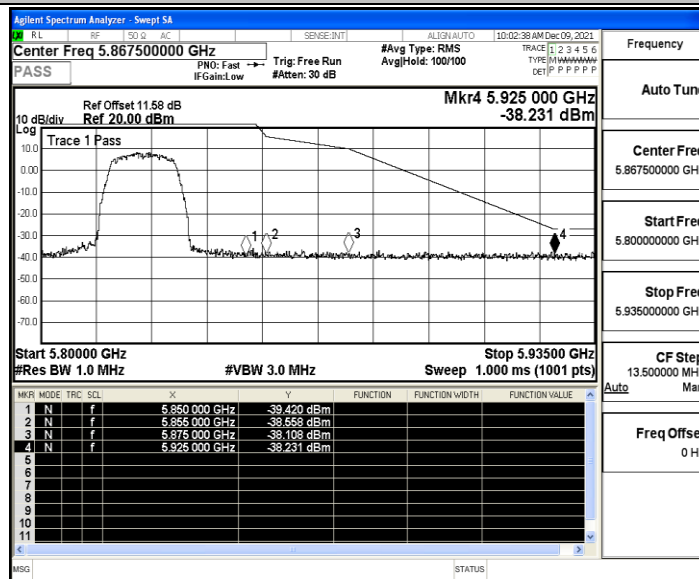


Test Graphs

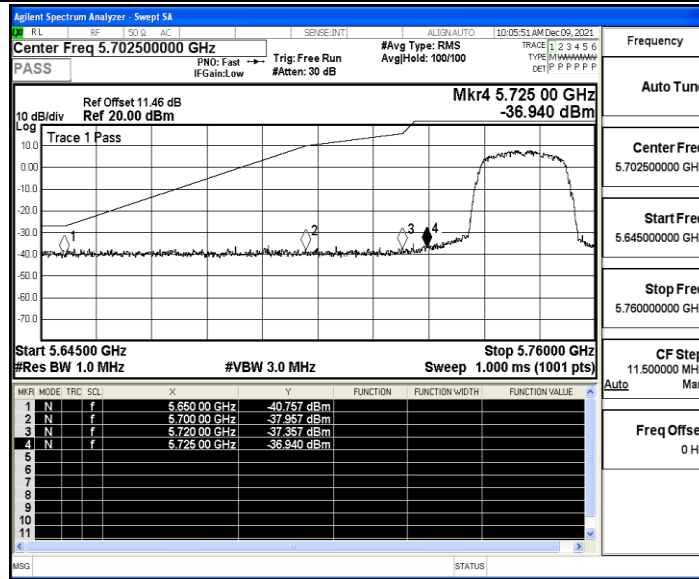
11A_Ant1_Low_5745_Peak



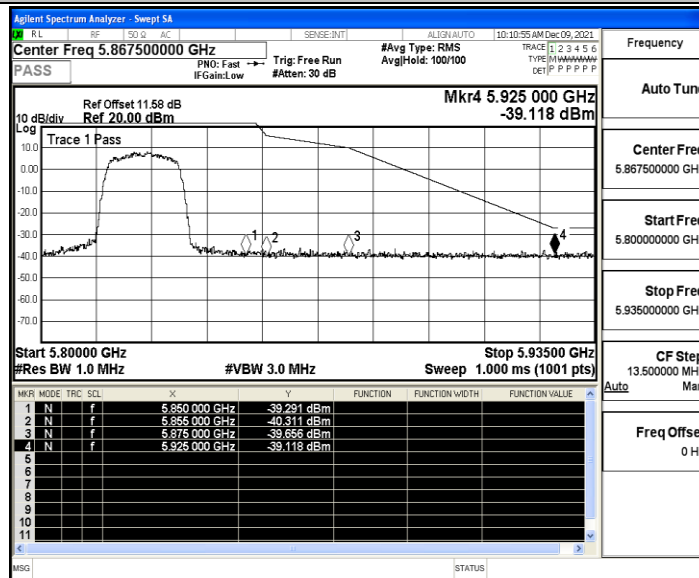
11A_Ant1_High_5825_Peak



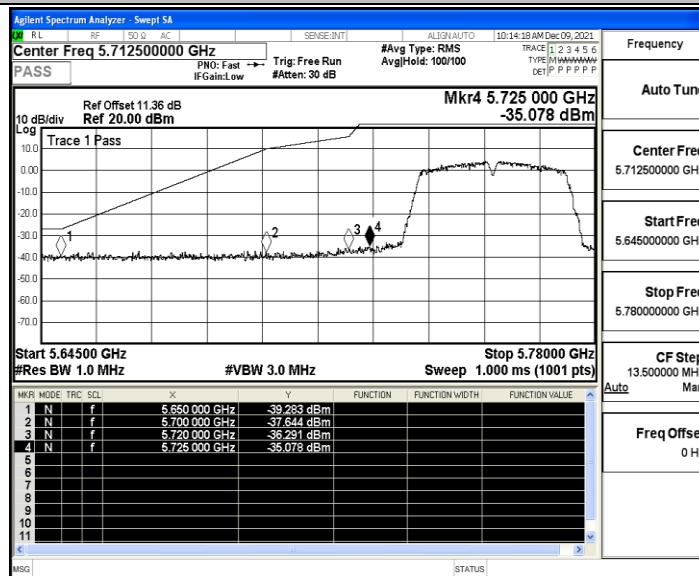
11N20SISO_Ant1_Low_5745_Peak



11N20SISO_Ant1_High_5825_Peak

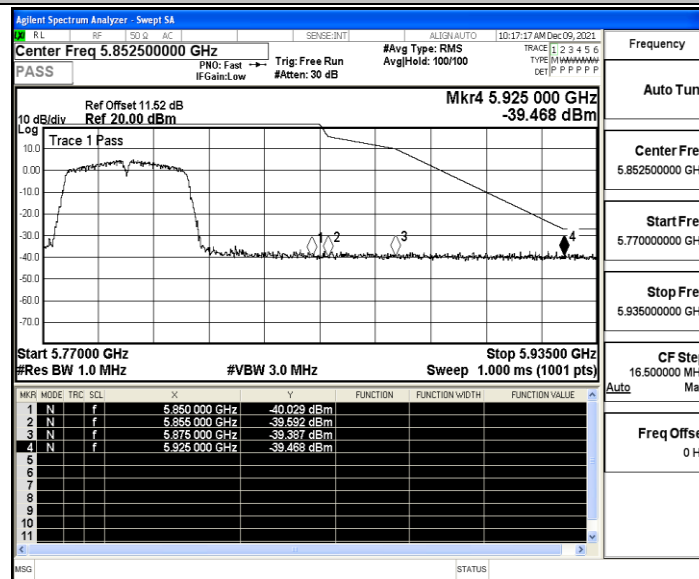


11N40SISO_Ant1_Low_5755_Peak

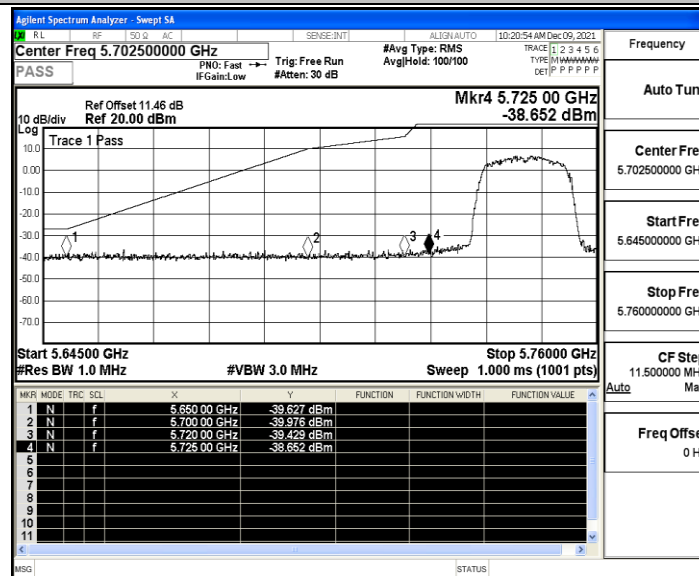




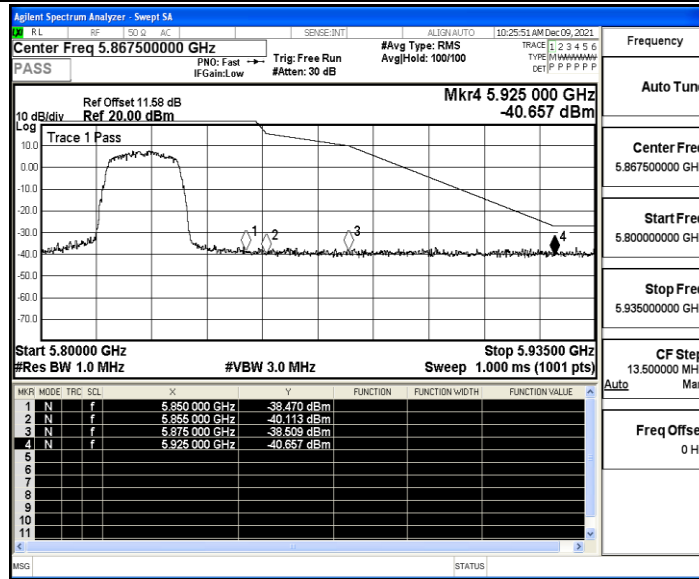
11N40SISO_Ant1_High_5795_Peak



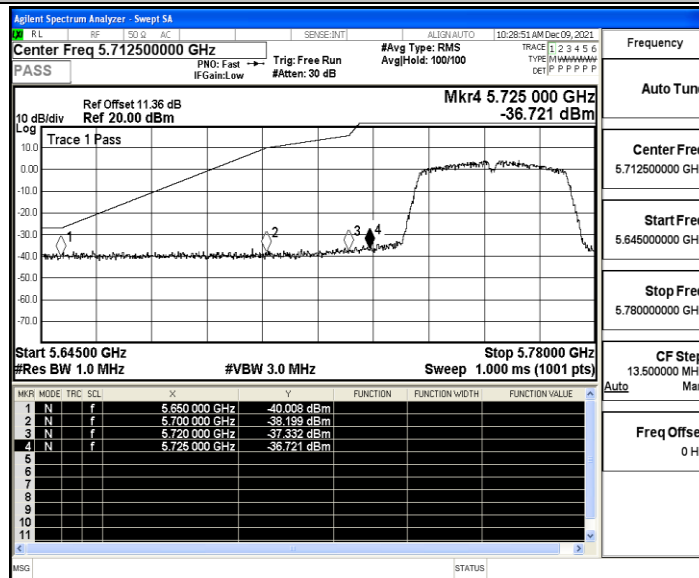
11AC20SISO_Ant1_Low_5745_Peak



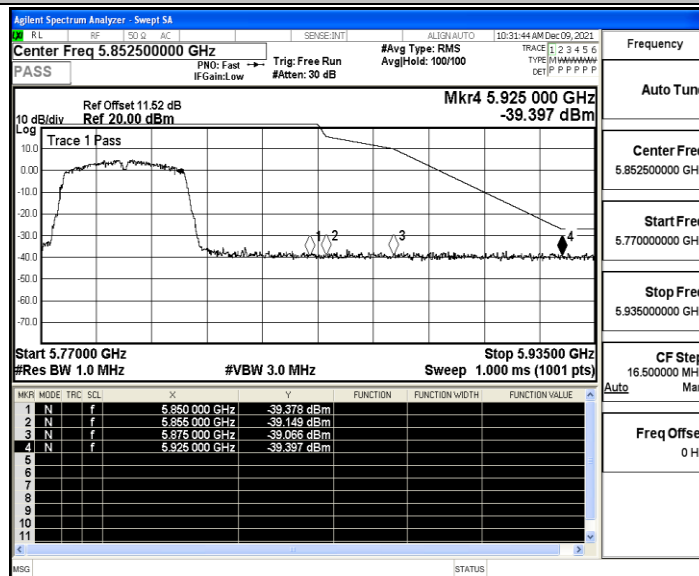
11AC20SISO_Ant1_High_5825_Peak



11AC40SISO_Ant1_Low_5755_Peak

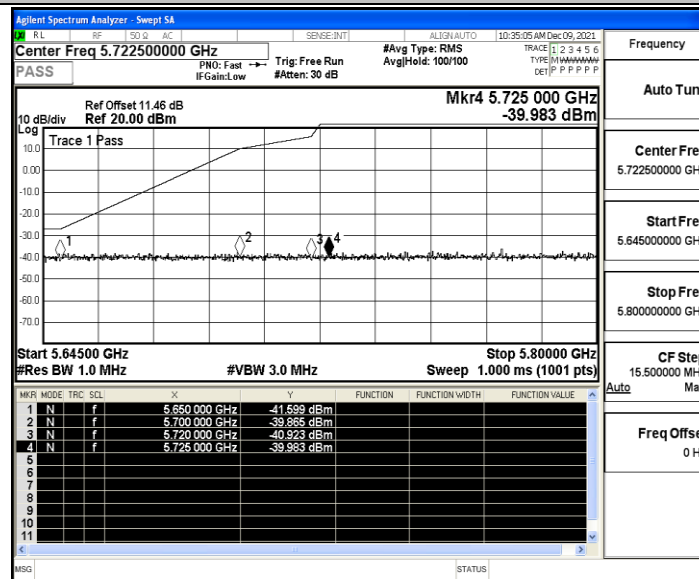


11AC40SISO_Ant1_High_5795_Peak





11AC80SISO_Ant1_Low_5775_Peak



Frequency

Auto Tune

Center Freq
5.722500000 GHz

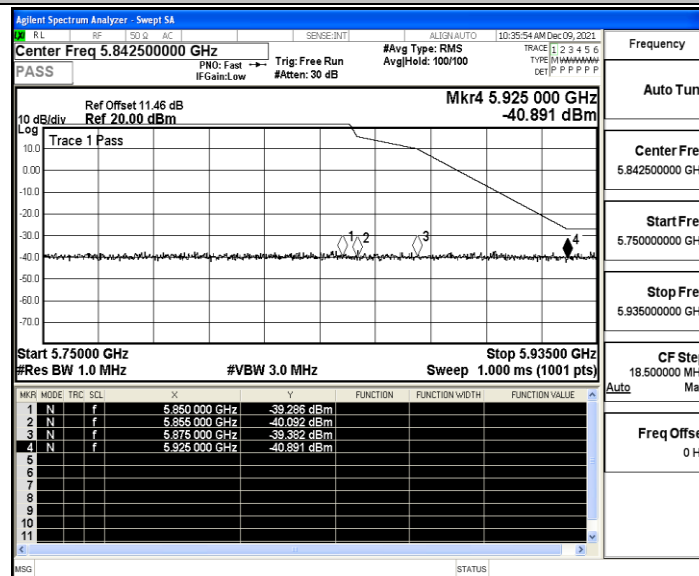
Start Freq
5.645000000 GHz

Stop Freq
5.800000000 GHz

CF Step
15.500000 MHz
Man

Freq Offset
0 Hz

11AC80SISO_Ant1_High_5775_Peak



Frequency

Auto Tune

Center Freq
5.842500000 GHz

Start Freq
5.750000000 GHz

Stop Freq
5.935000000 GHz

CF Step
18.500000 MHz
Man

Freq Offset
0 Hz



E.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SISO	Ant1	5745	NV	NT	-8000	-1.392515	20	PASS
			LV	NT	-8000	-1.392515	20	PASS
			HV	NT	-12000	-2.088773	20	PASS
		5785	NV	NT	-12000	-2.07433	20	PASS
			LV	NT	-16000	-2.765774	20	PASS
			HV	NT	-14000	-2.420052	20	PASS
		5825	NV	NT	-12000	-2.060086	20	PASS
			LV	NT	-23000	-3.948498	20	PASS
			HV	NT	-12000	-2.060086	20	PASS
11AC40SISO	Ant1	5755	NV	NT	-8000	-1.390096	20	PASS
			LV	NT	-16000	-2.780191	20	PASS
			HV	NT	-19000	-3.301477	20	PASS
		5795	NV	NT	-11000	-1.898188	20	PASS
			LV	NT	-10000	-1.725626	20	PASS
			HV	NT	-17000	-2.933563	20	PASS
11AC80SISO	Ant1	5775	NV	NT	-9000	-1.558442	20	PASS
			LV	NT	-15000	-2.597403	20	PASS
			HV	NT	-18000	-3.116883	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SISO	Ant1	5745	NV	-30	-12000	-2.088773	20	PASS
			NV	-20	-10000	-1.740644	20	PASS
			NV	-10	-8000	-1.392515	20	PASS
			NV	0	-7000	-1.218451	20	PASS
			NV	10	-12000	-2.088773	20	PASS
			NV	20	-9000	-1.56658	20	PASS
			NV	30	-14000	-2.436902	20	PASS
			NV	40	-7000	-1.218451	20	PASS
			NV	50	-11000	-1.914708	20	PASS
		5785	NV	-30	-22000	-3.802939	20	PASS
			NV	-20	-12000	-2.07433	20	PASS
			NV	-10	-19000	-3.284356	20	PASS
			NV	0	-21000	-3.630078	20	PASS
			NV	10	-14000	-2.420052	20	PASS
			NV	20	-14000	-2.420052	20	PASS



			NV	20	-17000	-2.938634	20	PASS
			NV	30	-20000	-3.457217	20	PASS
			NV	40	-15000	-2.592913	20	PASS
			NV	50	-21000	-3.630078	20	PASS
		5825	NV	-30	-22000	-3.776824	20	PASS
			NV	-20	-14000	-2.403433	20	PASS
			NV	-10	-17000	-2.918455	20	PASS
			NV	0	-12000	-2.060086	20	PASS
			NV	10	-27000	-4.635193	20	PASS
			NV	20	-17000	-2.918455	20	PASS
			NV	30	-15000	-2.575107	20	PASS
			NV	40	-18000	-3.090129	20	PASS
			NV	50	-13000	-2.23176	20	PASS
11AC40SIS O	Ant1	5755	NV	-30	-12000	-2.085143	20	PASS
			NV	-20	-13000	-2.258905	20	PASS
			NV	-10	-11000	-1.911381	20	PASS
			NV	0	-9000	-1.563858	20	PASS
			NV	10	-16000	-2.780191	20	PASS
			NV	20	-9000	-1.563858	20	PASS
			NV	30	-10000	-1.737619	20	PASS
			NV	40	-10000	-1.737619	20	PASS
		5795	NV	50	-12000	-2.085143	20	PASS
			NV	-30	-15000	-2.588438	20	PASS
			NV	-20	-24000	-4.141501	20	PASS
			NV	-10	-16000	-2.761001	20	PASS
			NV	0	-15000	-2.588438	20	PASS
			NV	10	-3000	-0.517688	20	PASS
			NV	20	-19000	-3.278689	20	PASS
			NV	30	-24000	-4.141501	20	PASS
			NV	40	-35000	-6.039689	20	PASS
			NV	50	-23000	-3.968939	20	PASS
11AC80SIS O	Ant1	5775	NV	-30	-10000	-1.731602	20	PASS
			NV	-20	-18000	-3.116883	20	PASS
			NV	-10	-21000	-3.636364	20	PASS
			NV	0	-16000	-2.770563	20	PASS
			NV	10	-17000	-2.943723	20	PASS
			NV	20	-24000	-4.155844	20	PASS
			NV	30	-12000	-2.077922	20	PASS
			NV	40	-10000	-1.731602	20	PASS
			NV	50	-9000	-1.558442	20	PASS



E.6 Duty Cycle

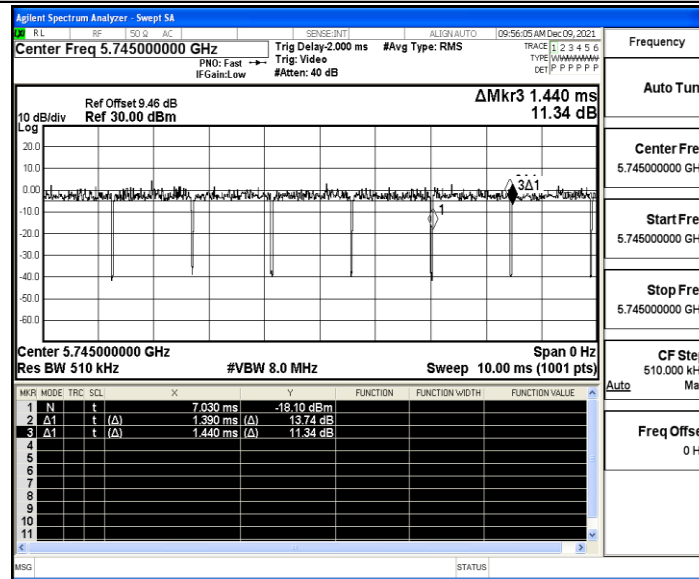
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5745	1.39	1.44	96.53	---	PASS
		5785	1.39	1.44	96.53	---	PASS
		5825	1.39	1.44	96.53	---	PASS
11N20SISO	Ant1	5745	1.30	1.35	96.30	---	PASS
		5785	1.30	1.35	96.30	---	PASS
		5825	1.30	1.35	96.30	---	PASS
11N40SISO	Ant1	5755	0.65	0.70	92.86	---	PASS
		5795	0.64	0.69	92.75	---	PASS
11AC20SISO	Ant1	5745	1.31	1.36	96.32	---	PASS
		5785	1.31	1.36	96.32	---	PASS
		5825	1.31	1.36	96.32	---	PASS
11AC40SISO	Ant1	5755	0.65	0.70	92.86	---	PASS
		5795	0.65	0.70	92.86	---	PASS
11AC80SISO	Ant1	5775	0.32	0.37	86.49	---	PASS

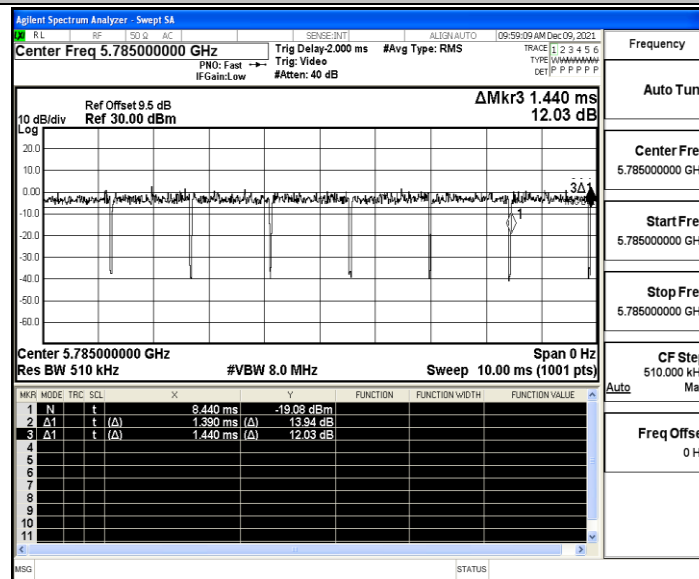


Test Graphs

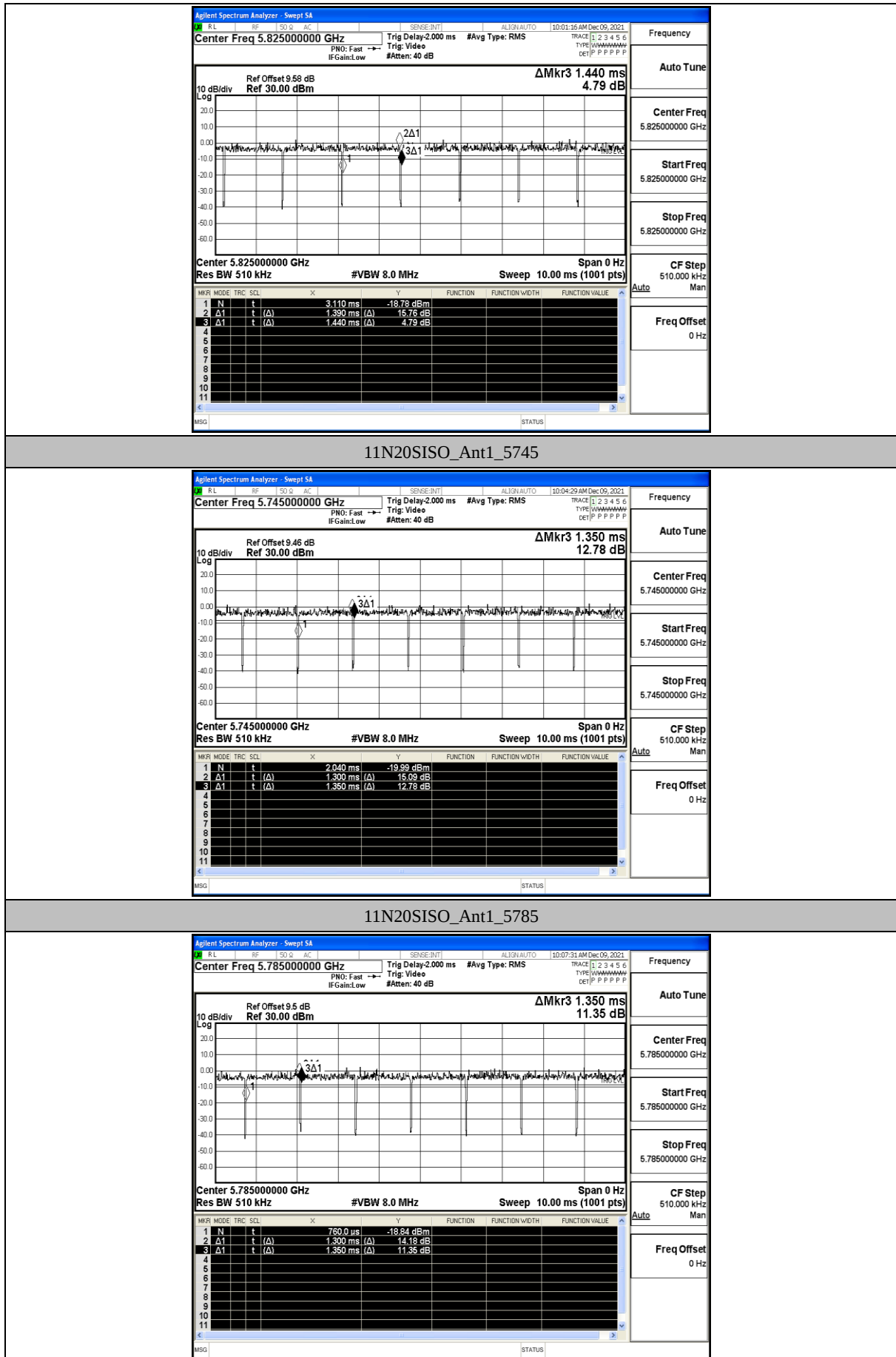
11A_Ant1_5745



11A_Ant1_5785

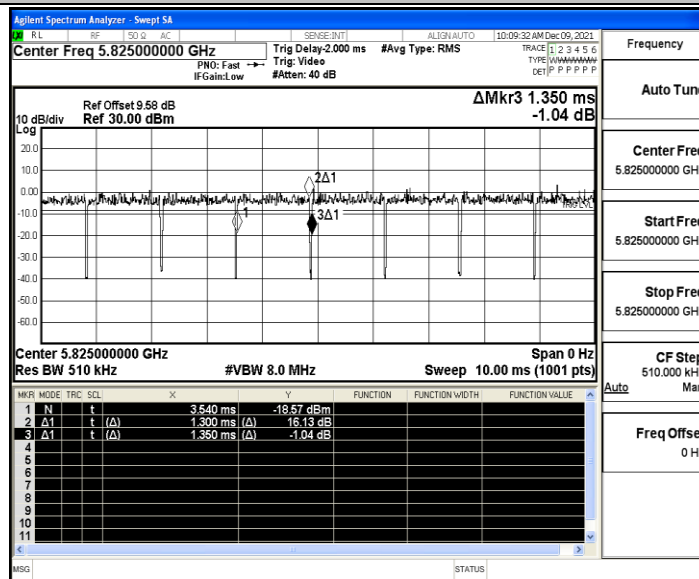


11A_Ant1_5825

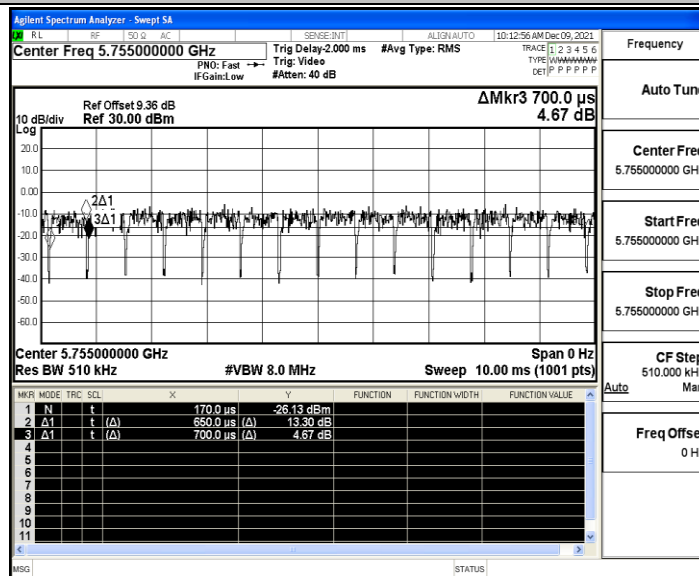




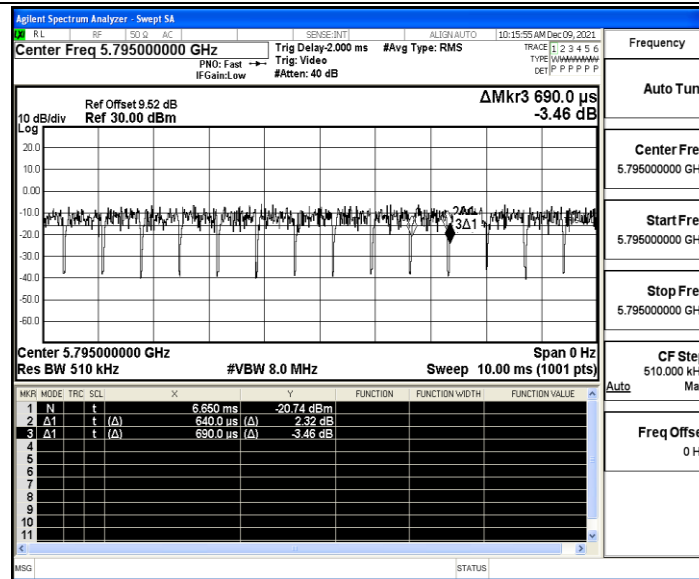
11N20SISO_Ant1_5825



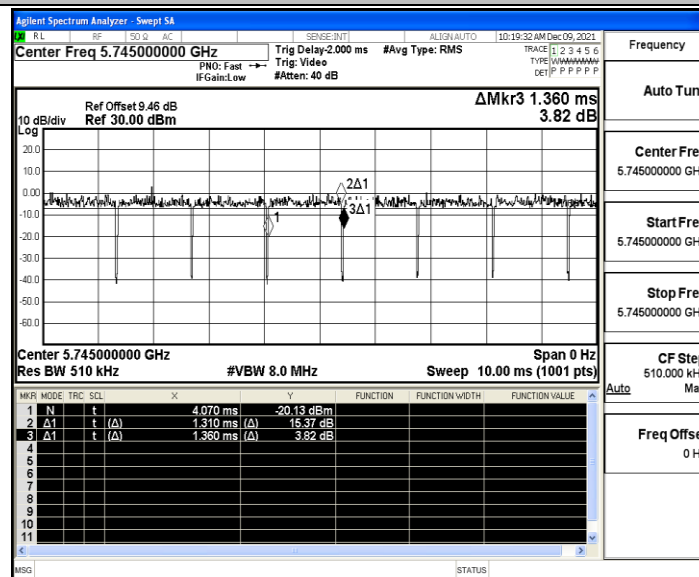
11N40SISO_Ant1_5755



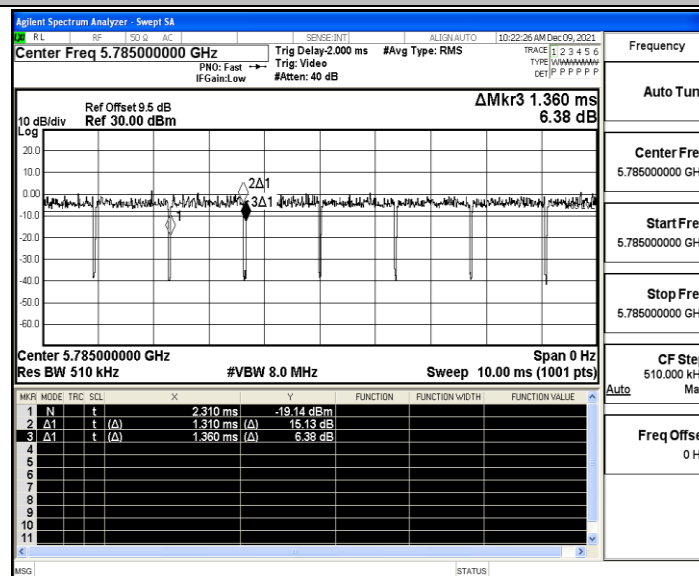
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

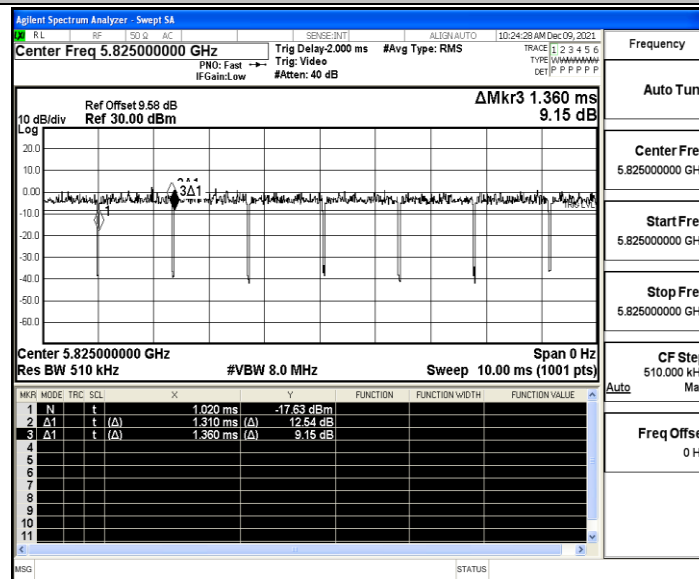


11AC20SISO_Ant1_5785

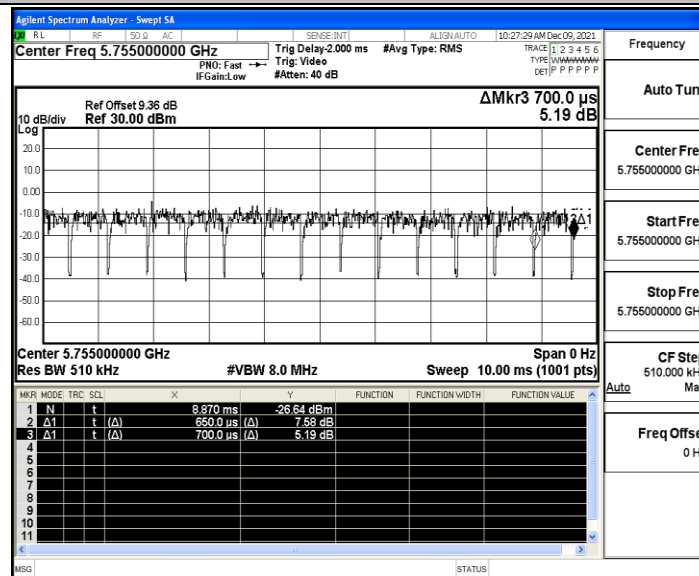




11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

