



Appendix D

RF Test Data for 5.2G 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:	Lihm



D.1 26dB Bandwidth

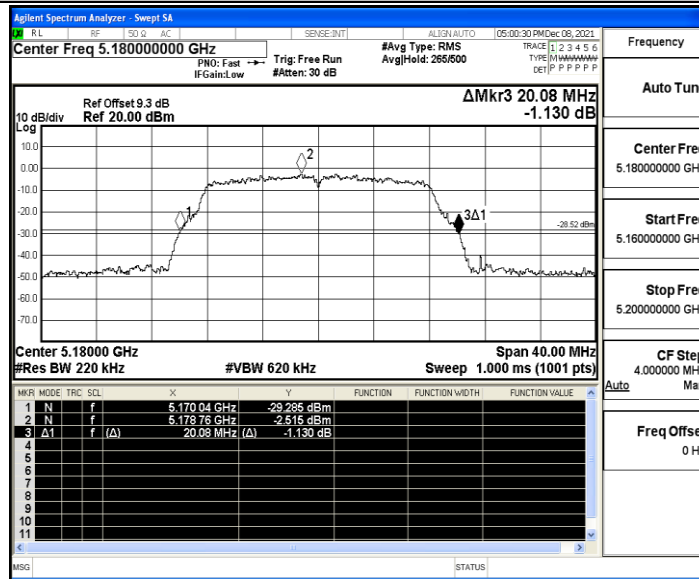
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.080	5170.040	5190.120	---	PASS
		5200	19.840	5190.080	5209.920	---	PASS
		5240	19.760	5230.120	5249.880	---	PASS
11N20SISO	Ant1	5180	20.200	5169.960	5190.160	---	PASS
		5200	20.240	5189.920	5210.160	---	PASS
		5240	20.080	5230.000	5250.080	---	PASS
11N40SISO	Ant1	5190	40.480	5169.600	5210.080	---	PASS
		5230	40.160	5210.000	5250.160	---	PASS
11AC20SISO	Ant1	5180	20.240	5169.800	5190.040	---	PASS
		5200	20.120	5189.960	5210.080	---	PASS
		5240	20.280	5229.840	5250.120	---	PASS
11AC40SISO	Ant1	5190	40.240	5169.920	5210.160	---	PASS
		5230	40.240	5209.760	5250.000	---	PASS
11AC80SISO	Ant1	5210	80.640	5170.000	5250.640	---	PASS

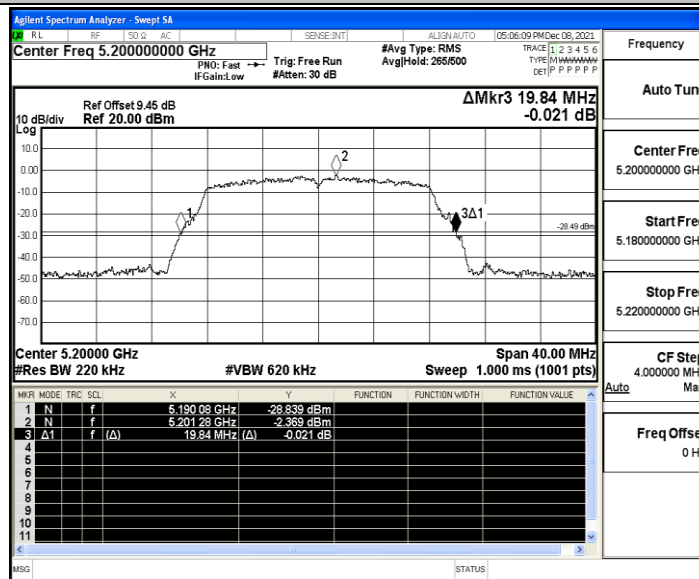


Test Graphs

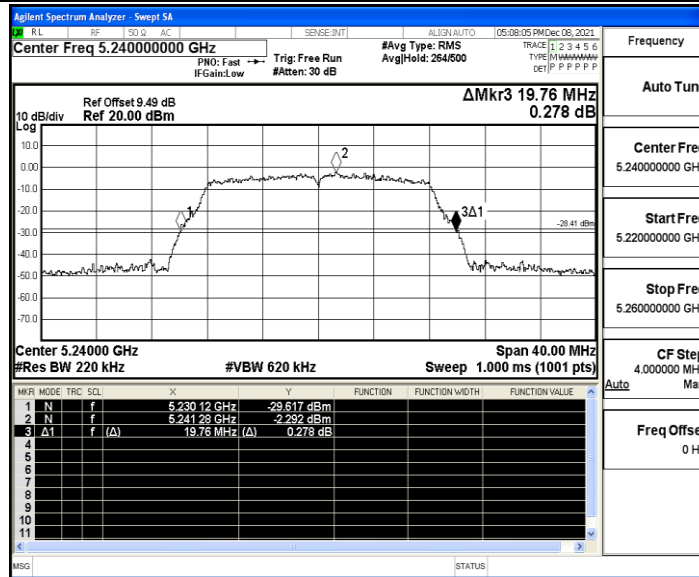
11A_Ant1_5180



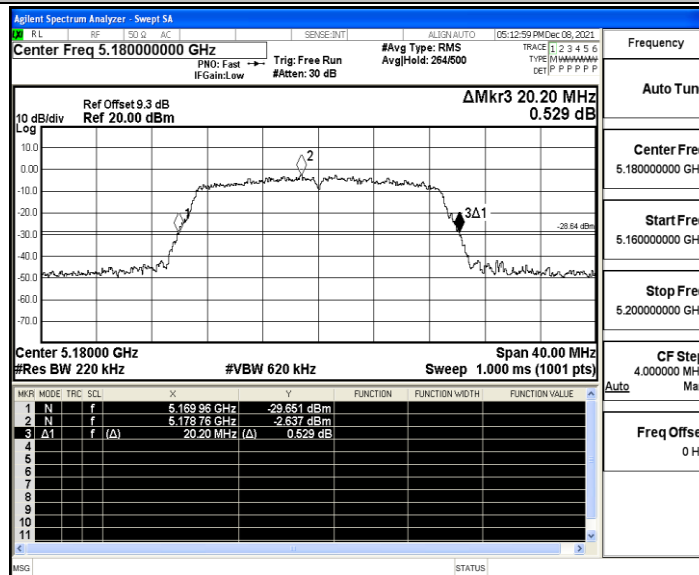
11A_Ant1_5200



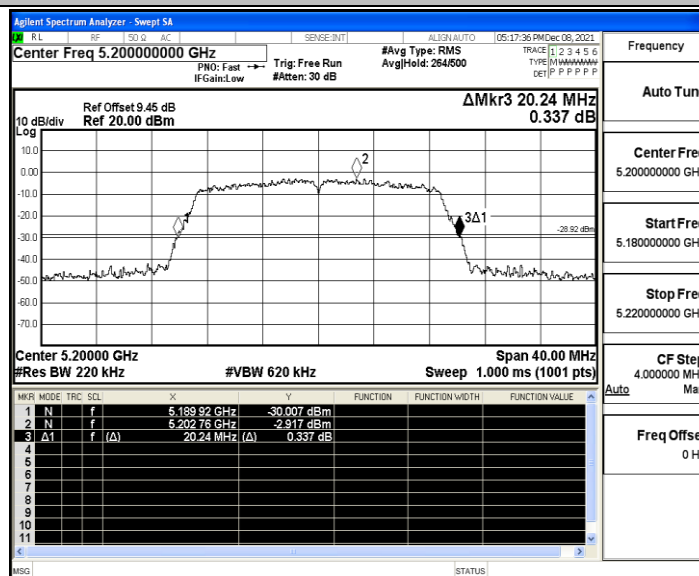
11A_Ant1_5240



11N20SISO_Ant1_5180

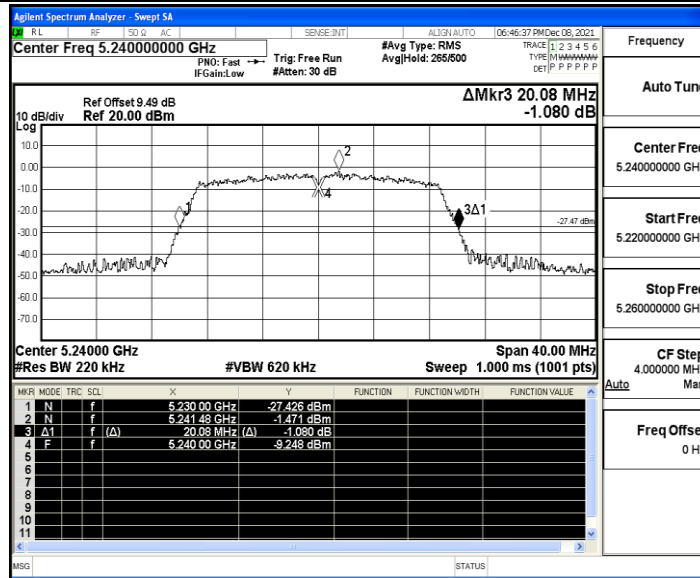


11N20SISO_Ant1_5200

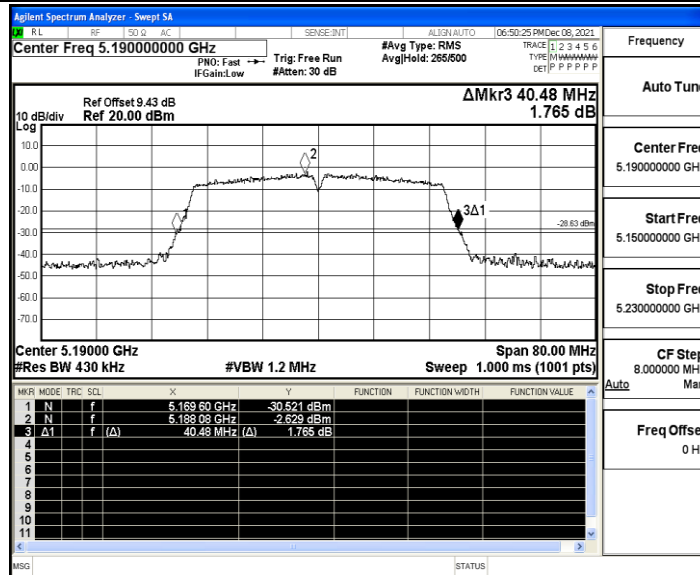




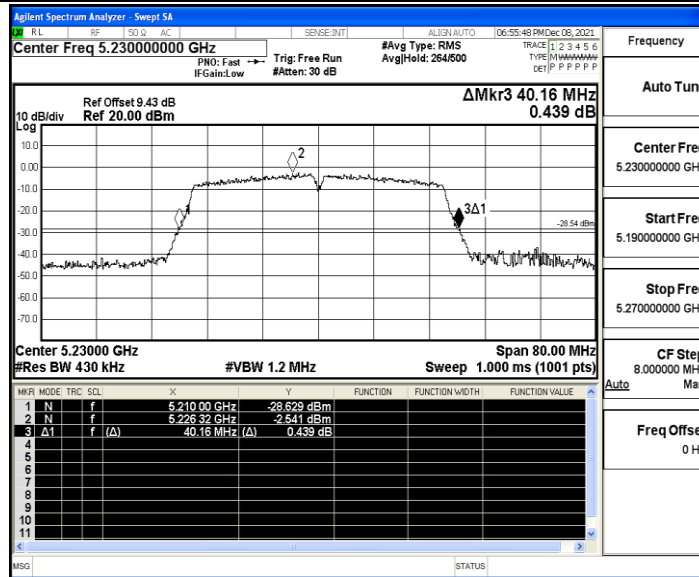
11N20SISO_Ant1_5240



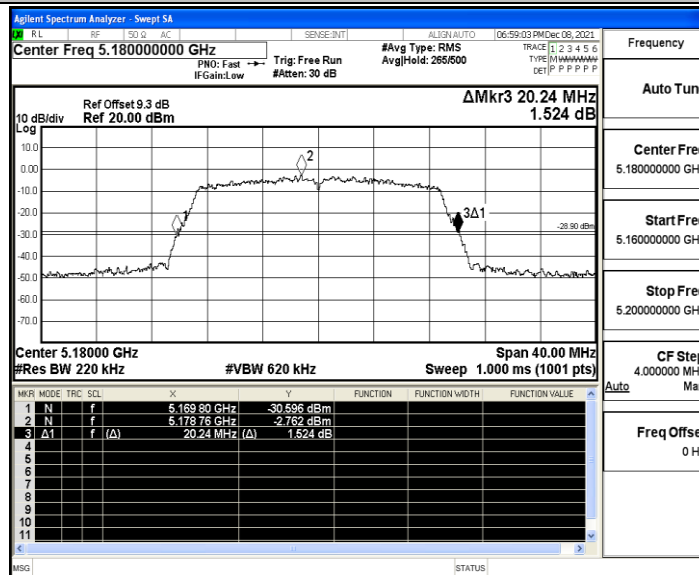
11N40SISO_Ant1_5190



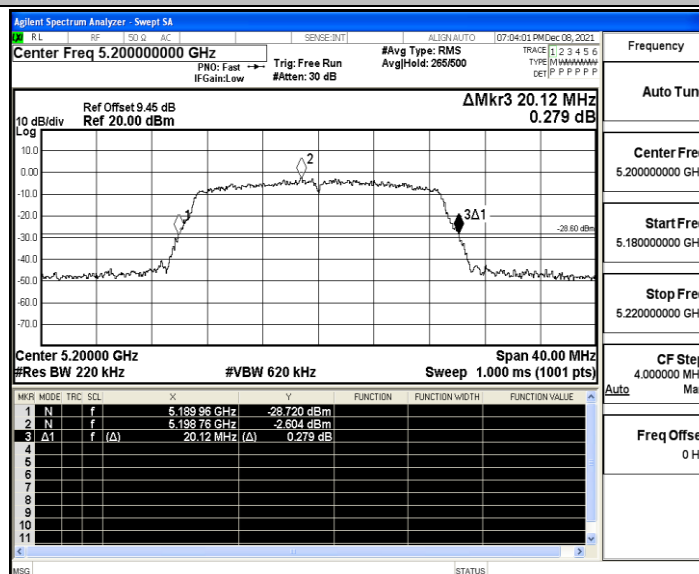
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

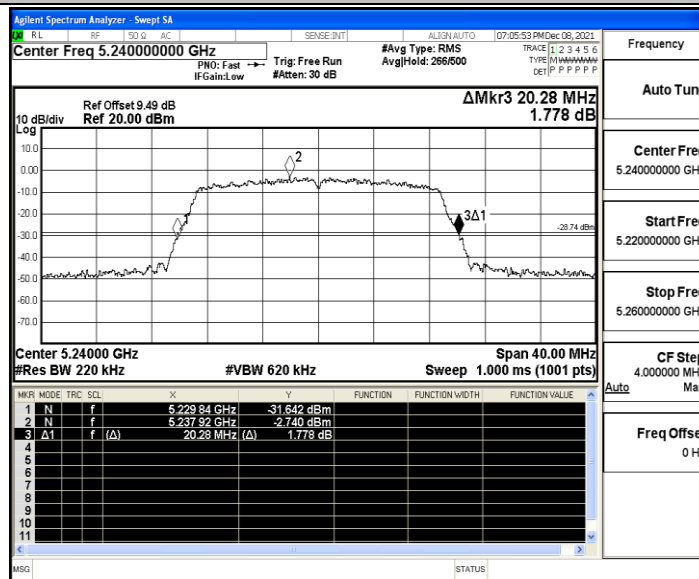


11AC20SISO_Ant1_5200

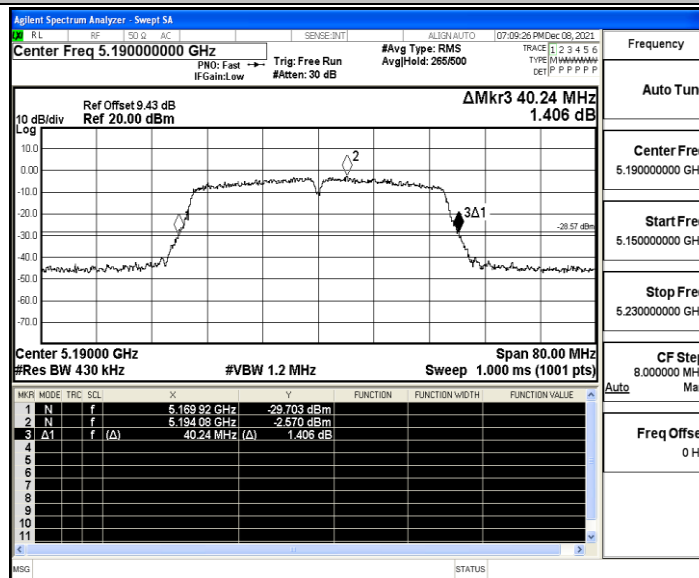




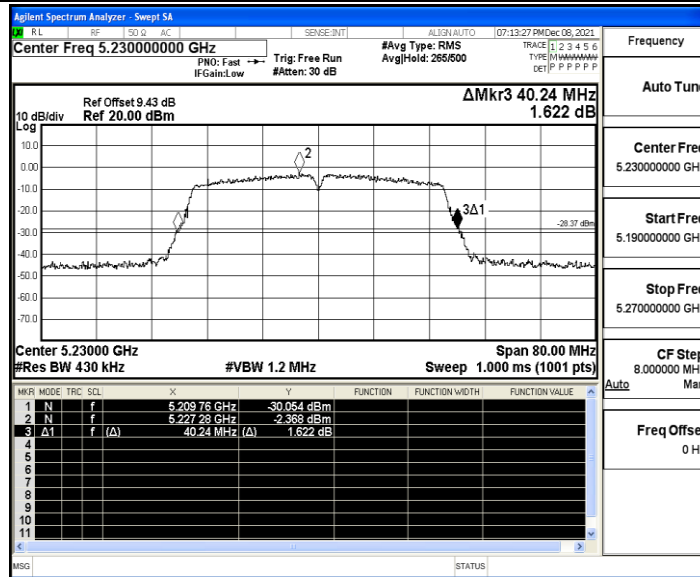
11AC20SISO_Ant1_5240



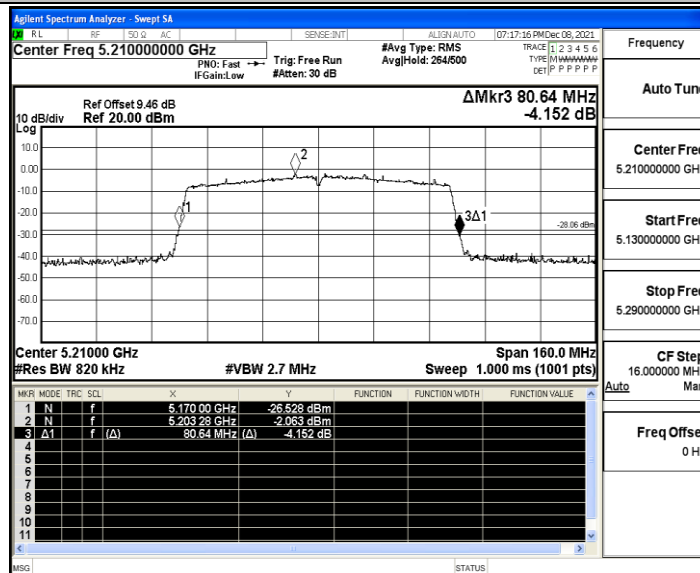
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





D.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	13.83	≤ 23.98	PASS
		5200	13.15	≤ 23.98	PASS
		5240	13.02	≤ 23.98	PASS
11N20SISO	Ant1	5180	13.75	≤ 23.98	PASS
		5200	13.03	≤ 23.98	PASS
		5240	13.95	≤ 23.98	PASS
11N40SISO	Ant1	5190	12.19	≤ 23.98	PASS
		5230	12.90	≤ 23.98	PASS
11AC20SISO	Ant1	5180	12.49	≤ 23.98	PASS
		5200	12.72	≤ 23.98	PASS
		5240	12.78	≤ 23.98	PASS
11AC40SISO	Ant1	5190	12.97	≤ 23.98	PASS
		5230	12.05	≤ 23.98	PASS
11AC80SISO	Ant1	5210	12.19	≤ 23.98	PASS

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



D.3 Maximum power spectral density

Test Result

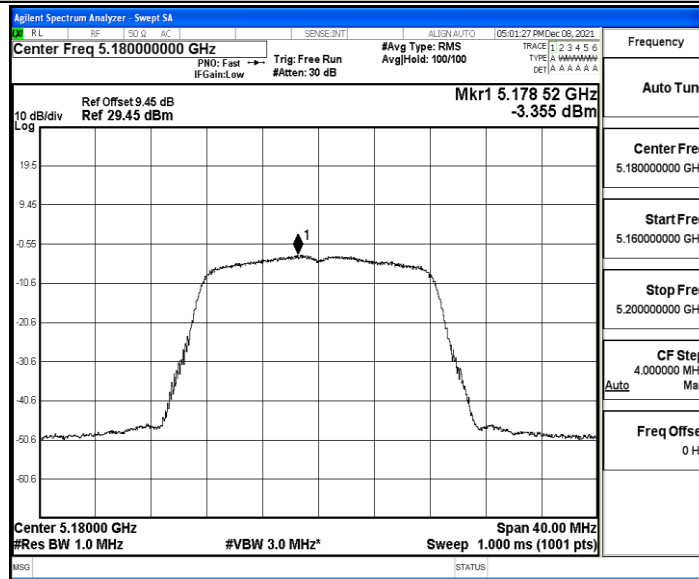
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-3.36	≤11	PASS
		5200	-2.85	≤11	PASS
		5240	-3.31	≤11	PASS
11N20SISO	Ant1	5180	-3.7	≤11	PASS
		5200	-3.21	≤11	PASS
		5240	-3.09	≤11	PASS
11N40SISO	Ant1	5190	-6.05	≤11	PASS
		5230	-6.4	≤11	PASS
11AC20SISO	Ant1	5180	-4.05	≤11	PASS
		5200	-3.64	≤11	PASS
		5240	-3.48	≤11	PASS
11AC40SISO	Ant1	5190	-6.33	≤11	PASS
		5230	-6.07	≤11	PASS
11AC80SISO	Ant1	5210	-9.07	≤11	PASS

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

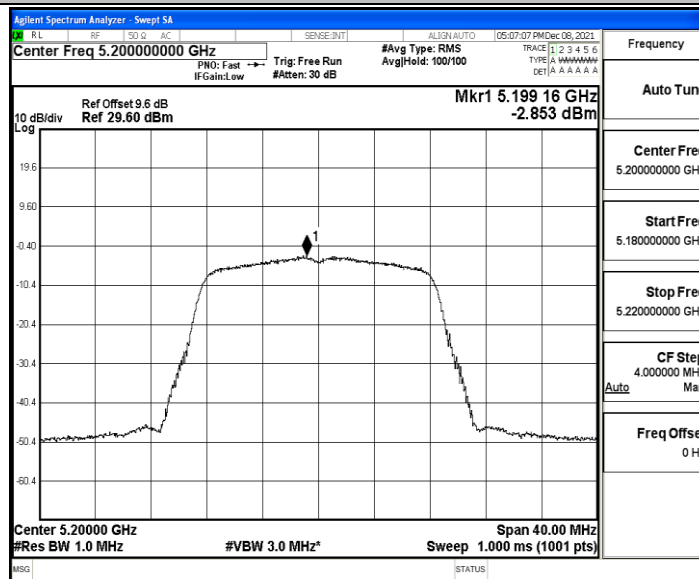


Test Graphs

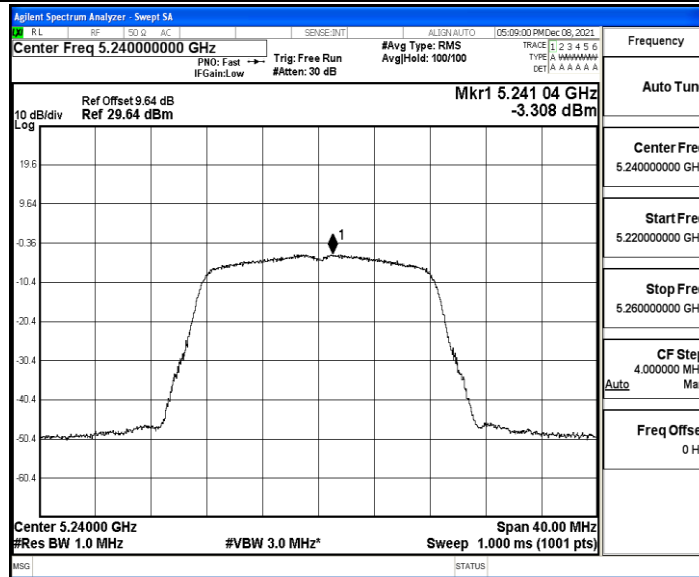
11A_Ant1_5180



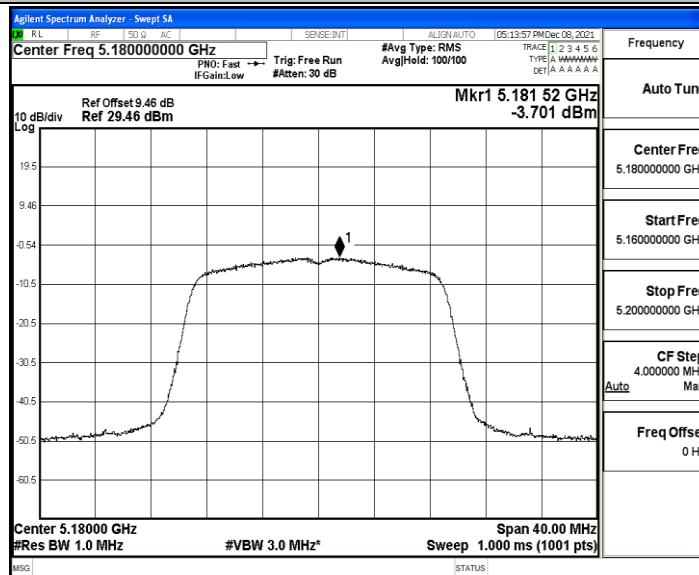
11A_Ant1_5200



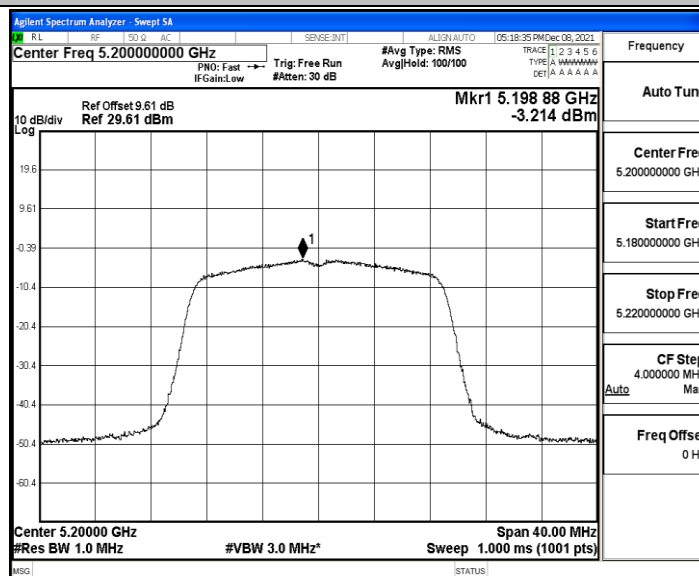
11A_Ant1_5240



11N20SISO_Ant1_5180

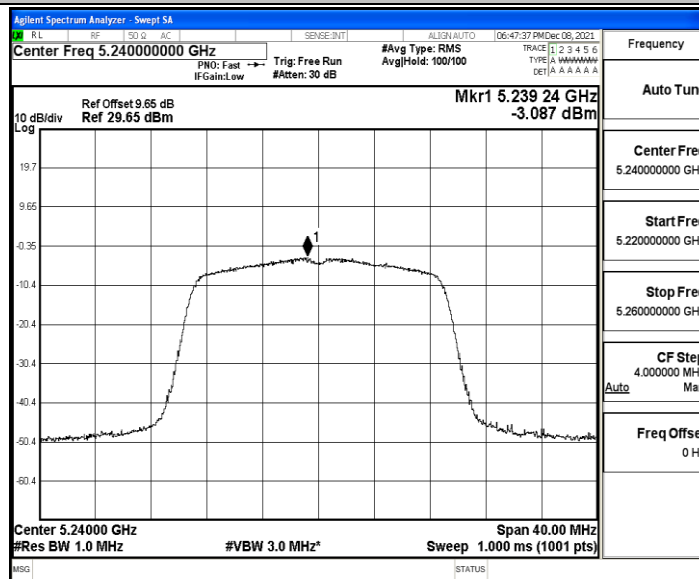


11N20SISO_Ant1_5200

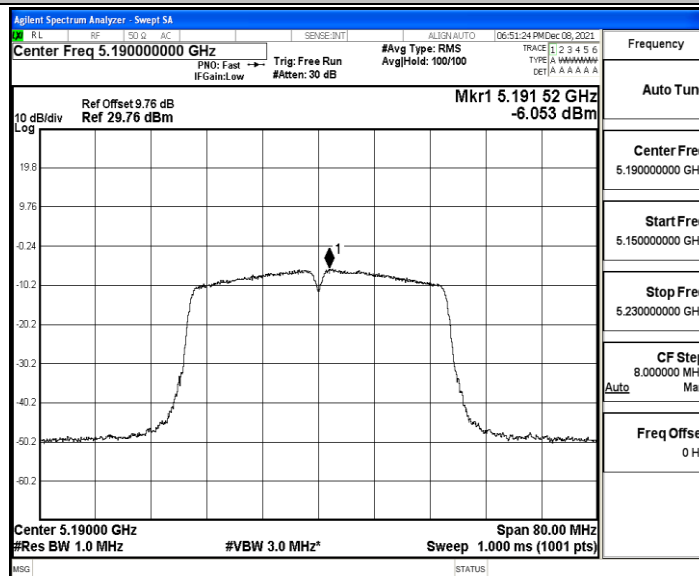




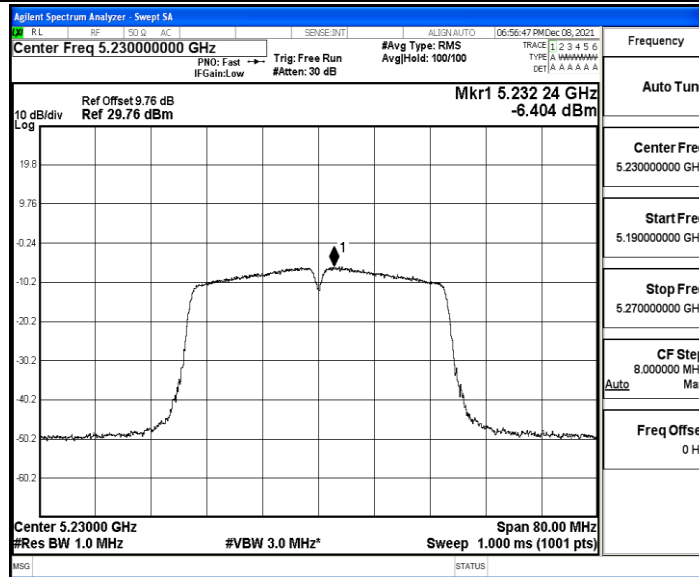
11N20SISO_Ant1_5240



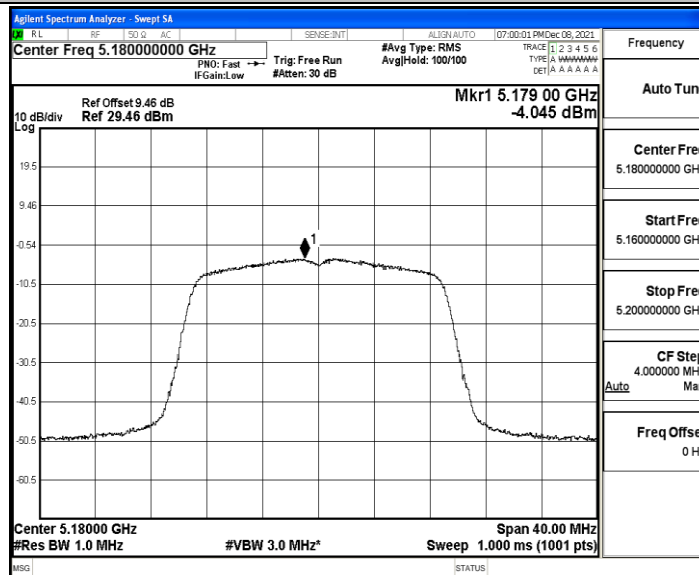
11N40SISO_Ant1_5190



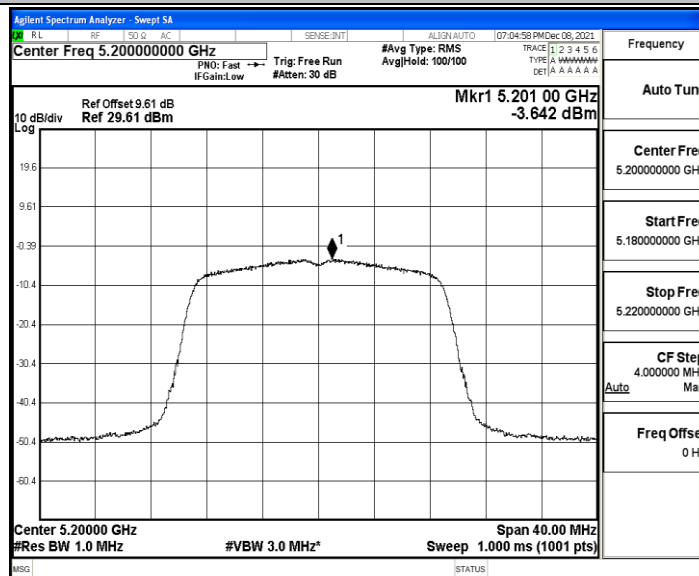
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

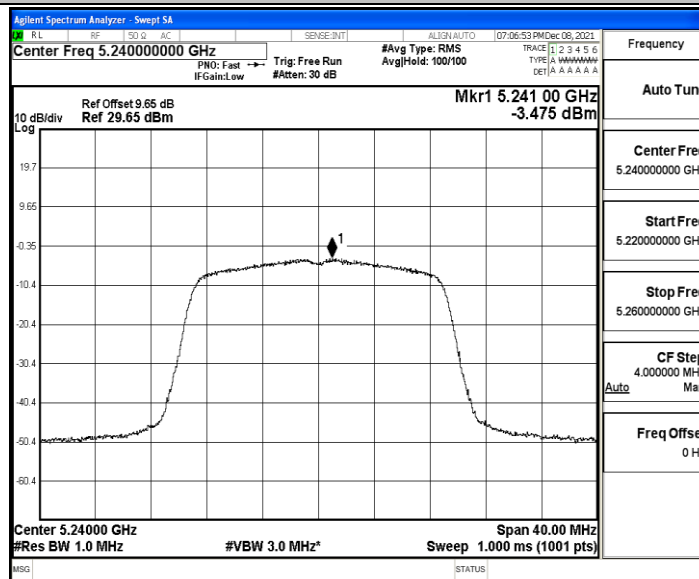


11AC20SISO_Ant1_5200

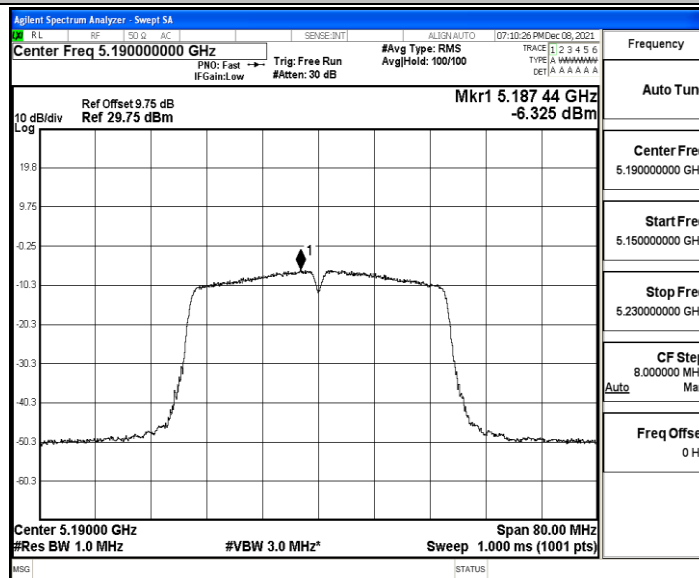




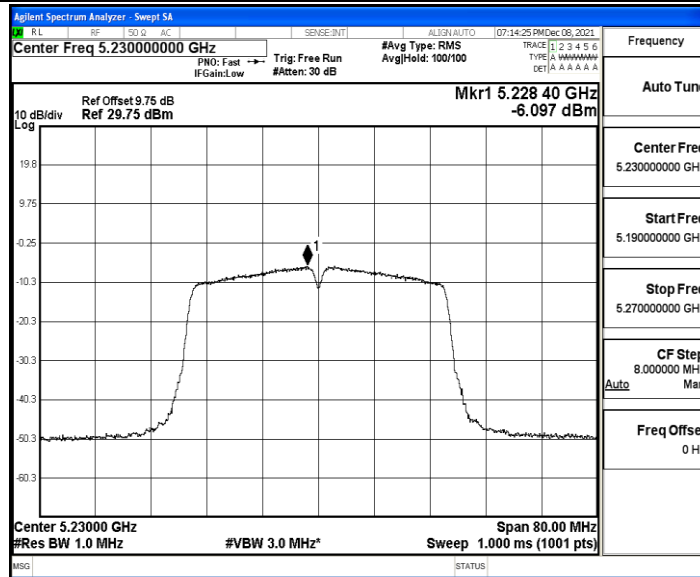
11AC20SISO_Ant1_5240



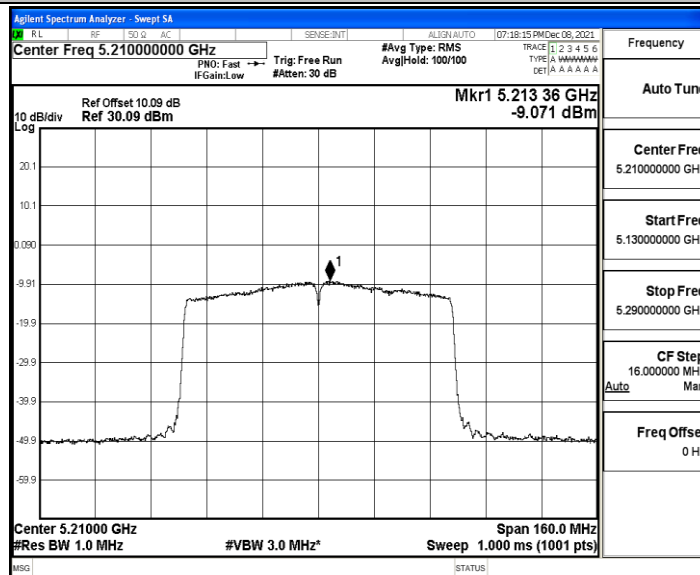
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





D.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	5180	AV	4500.000	-49.00	≤-41.20	46.20	≤54	PASS
				AV	4900.400	-46.77	≤-41.20	48.43	≤54	PASS
				AV	5150.000	-47.14	≤-41.20	48.06	≤54	PASS
				Peak	4500.000	-43.16	≤-21.20	52.04	≤68.2	PASS
				Peak	4898.300	-36.90	≤-21.20	58.30	≤68.2	PASS
				Peak	5150.000	-40.15	≤-21.20	55.05	≤68.2	PASS
		High	5240	AV	5350.000	-47.28	≤-41.20	47.92	≤54	PASS
				AV	5394.480	-47.1	≤-41.20	48.10	≤54	PASS
				AV	5460.000	-47.39	≤-41.20	47.81	≤54	PASS
				Peak	5350.000	-40.92	≤-21.20	54.28	≤68.2	PASS
				Peak	5451.360	-37.02	≤-21.20	58.18	≤68.2	PASS
				Peak	5460.000	-41.65	≤-21.20	53.55	≤68.2	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-48.92	≤-41.20	46.28	≤54	PASS
				AV	4808.700	-46.89	≤-41.20	48.31	≤54	PASS
				AV	5150.000	-47.08	≤-41.20	48.12	≤54	PASS
				Peak	4500.000	-41.13	≤-21.20	54.07	≤68.2	PASS
				Peak	5030.600	-36.83	≤-21.20	58.37	≤68.2	PASS
				Peak	5150.000	-40.33	≤-21.20	54.87	≤68.2	PASS
		High	5240	AV	5350.000	-46.91	≤-41.20	48.29	≤54	PASS
				AV	5383.200	-46.72	≤-41.20	48.48	≤54	PASS
				AV	5460.000	-47.02	≤-41.20	48.18	≤54	PASS
				Peak	5350.000	-40.28	≤-21.20	54.92	≤68.2	PASS
				Peak	5430.000	-36.94	≤-21.20	58.26	≤68.2	PASS
				Peak	5460.000	-39.99	≤-21.20	55.21	≤68.2	PASS
11N40SIS O	Ant1	Low	5190	AV	4500.000	-48.48	≤-41.20	46.72	≤54	PASS
				AV	4835.300	-46.12	≤-41.20	49.08	≤54	PASS
				AV	5150.000	-46.53	≤-41.20	48.67	≤54	PASS
				Peak	4500.000	-42.63	≤-21.20	52.57	≤68.2	PASS
				Peak	4910.200	-36.92	≤-21.20	58.28	≤68.2	PASS
				Peak	5150.000	-38.34	≤-21.20	56.86	≤68.2	PASS
		High	5230	AV	5350.000	-46.8	≤-41.20	48.40	≤54	PASS
				AV	5380.700	-46.47	≤-41.20	48.73	≤54	PASS
				AV	5460.000	-46.92	≤-41.20	48.28	≤54	PASS
				Peak	5350.000	-39.63	≤-21.20	55.57	≤68.2	PASS
				Peak	5448.300	-37.66	≤-21.20	57.54	≤68.2	PASS
				Peak	5460.000	-39.45	≤-21.20	55.75	≤68.2	PASS
11AC20SI	Ant1	Low	5180	AV	4500.000	-49.06	≤-41.20	46.14	≤54	PASS



SO				AV	4839.500	-46.91	≤ -41.20	48.29	≤ 54	PASS
				AV	5150.000	-47.12	≤ -41.20	48.08	≤ 54	PASS
				Peak	4500.000	-41.15	≤ -21.20	54.05	≤ 68.2	PASS
				Peak	4952.200	-37.05	≤ -21.20	58.15	≤ 68.2	PASS
				Peak	5150.000	-39.77	≤ -21.20	55.43	≤ 68.2	PASS
		High	5240	AV	5350.000	-47.39	≤ -41.20	47.81	≤ 54	PASS
				AV	5353.680	-47.23	≤ -41.20	47.97	≤ 54	PASS
				AV	5460.000	-47.35	≤ -41.20	47.85	≤ 54	PASS
				Peak	5350.000	-39.65	≤ -21.20	55.55	≤ 68.2	PASS
				Peak	5412.480	-37.35	≤ -21.20	57.85	≤ 68.2	PASS
				Peak	5460.000	-41.33	≤ -21.20	53.87	≤ 68.2	PASS
11AC40SI SO	Ant1	Low	5190	AV	4500.000	-48.62	≤ -41.20	46.58	≤ 54	PASS
				AV	4847.900	-46.18	≤ -41.20	49.02	≤ 54	PASS
				AV	5150.000	-46.65	≤ -41.20	48.55	≤ 54	PASS
				Peak	4500.000	-42.08	≤ -21.20	53.12	≤ 68.2	PASS
				Peak	4806.600	-36.92	≤ -21.20	58.28	≤ 68.2	PASS
				Peak	5150.000	-39.63	≤ -21.20	55.57	≤ 68.2	PASS
		High	5230	AV	5350.000	-47.23	≤ -41.20	47.97	≤ 54	PASS
				AV	5351.060	-46.89	≤ -41.20	48.31	≤ 54	PASS
				AV	5460.000	-47.27	≤ -41.20	47.93	≤ 54	PASS
				Peak	5350.000	-40.92	≤ -21.20	54.28	≤ 68.2	PASS
				Peak	5450.900	-37.8	≤ -21.20	57.40	≤ 68.2	PASS
				Peak	5460.000	-40.89	≤ -21.20	54.31	≤ 68.2	PASS
11AC80SI SO	Ant1	Low	5210	AV	4500.000	-48.3	≤ -41.20	46.90	≤ 54	PASS
				AV	5149.500	-45.73	≤ -41.20	49.47	≤ 54	PASS
				AV	5150.000	-45.67	≤ -41.20	49.53	≤ 54	PASS
				Peak	4500.000	-42.25	≤ -21.20	52.95	≤ 68.2	PASS
				Peak	4825.500	-37.66	≤ -21.20	57.54	≤ 68.2	PASS
				Peak	5150.000	-38.5	≤ -21.20	56.70	≤ 68.2	PASS
		High	5210	AV	5350.000	-47	≤ -41.20	48.20	≤ 54	PASS
				AV	5374.040	-46.37	≤ -41.20	48.83	≤ 54	PASS
				AV	5460.000	-46.83	≤ -41.20	48.37	≤ 54	PASS
				Peak	5350.000	-39.99	≤ -21.20	55.21	≤ 68.2	PASS
				Peak	5367.600	-38.11	≤ -21.20	57.09	≤ 68.2	PASS
				Peak	5460.000	-39.01	≤ -21.20	56.19	≤ 68.2	PASS

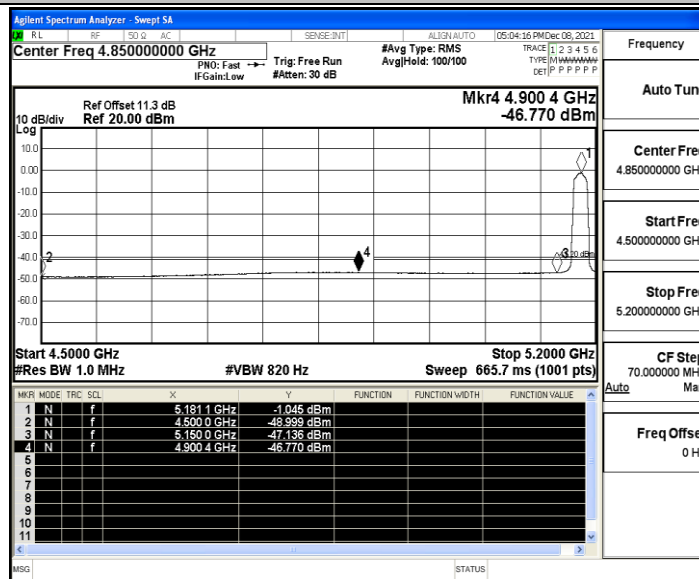
Note:

1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5250 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

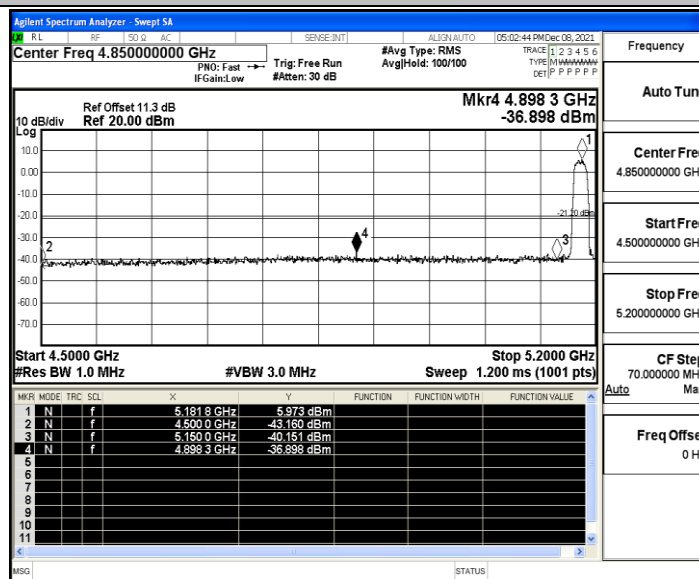


Test Graphs

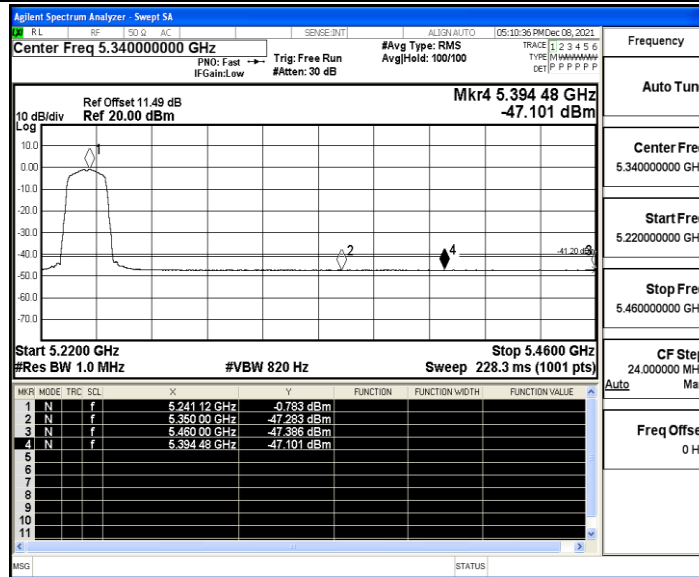
11A_Ant1_Low_5180_AV



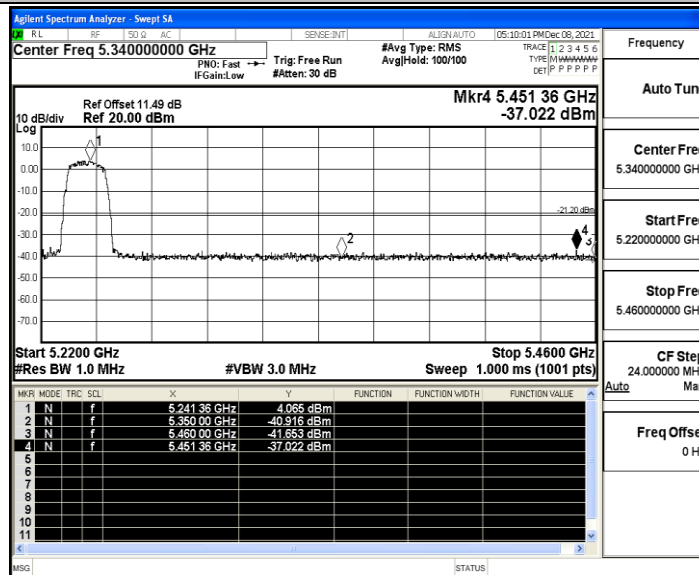
11A_Ant1_Low_5180_Peak



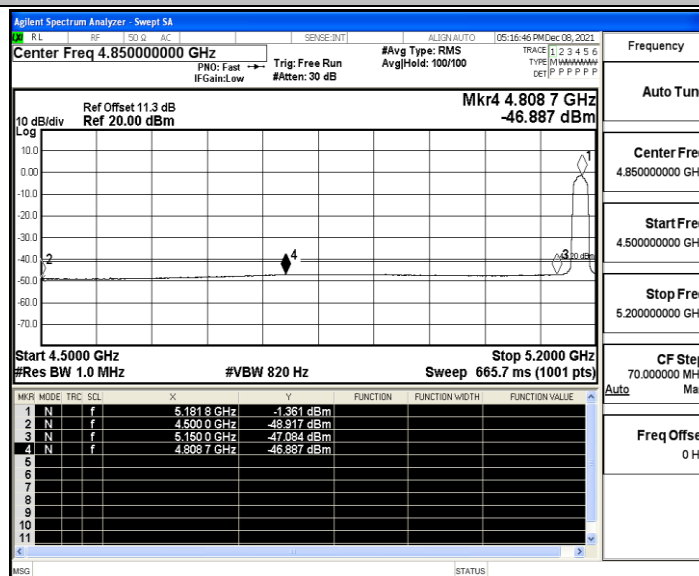
11A_Ant1_High_5240_AV



11A_Ant1_High_5240_Peak

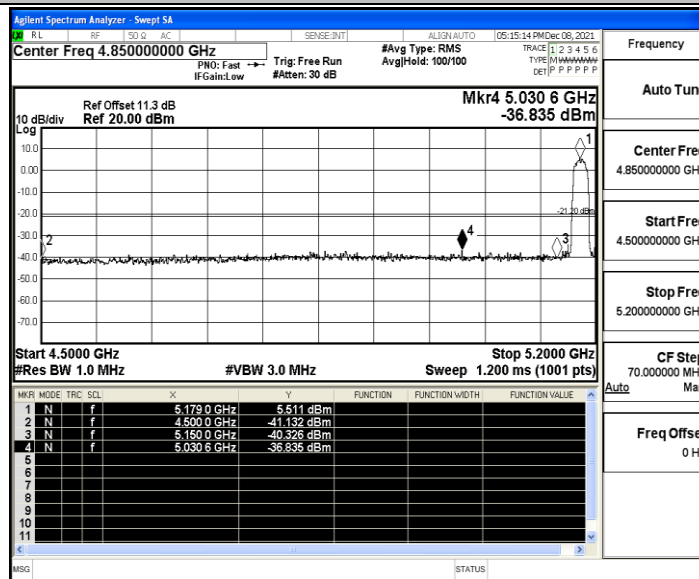


11N20SISO_Ant1_Low_5180_AV

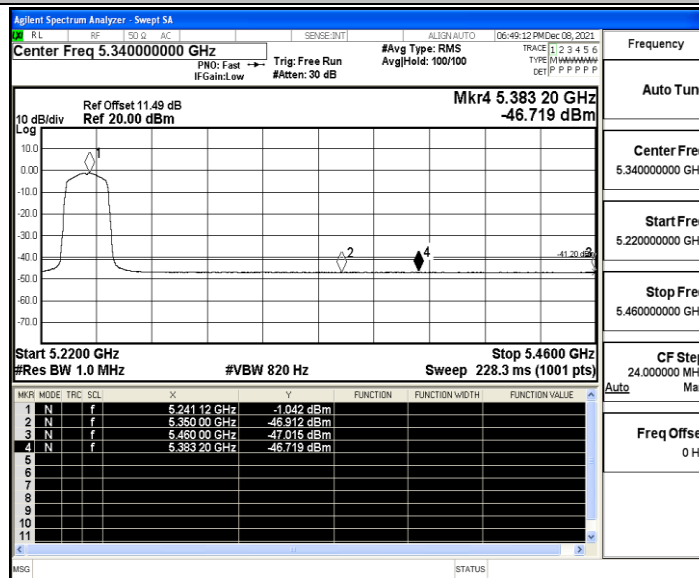




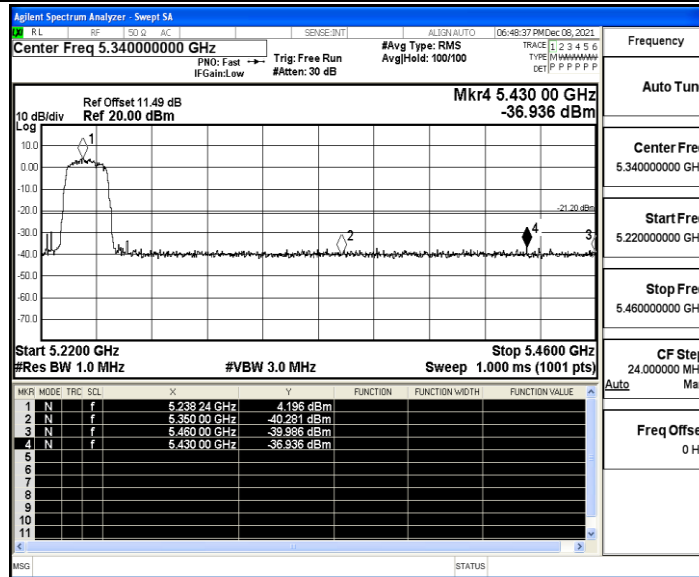
11N20SISO_Ant1_Low_5180_Peak



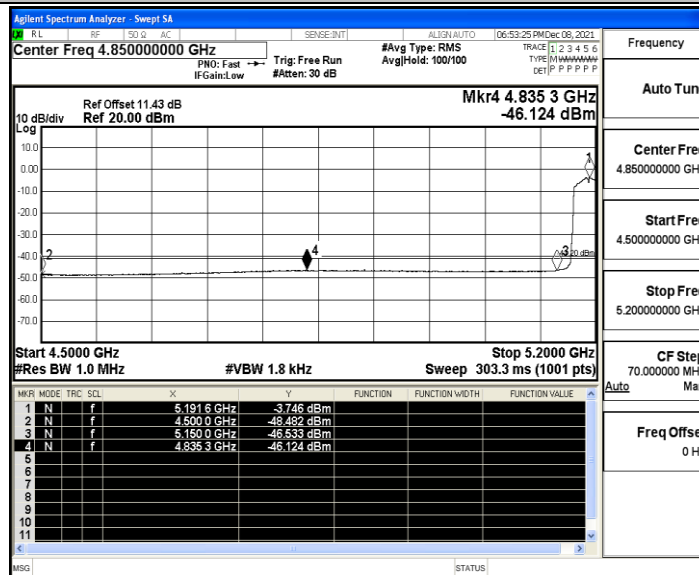
11N20SISO_Ant1_High_5240_AV



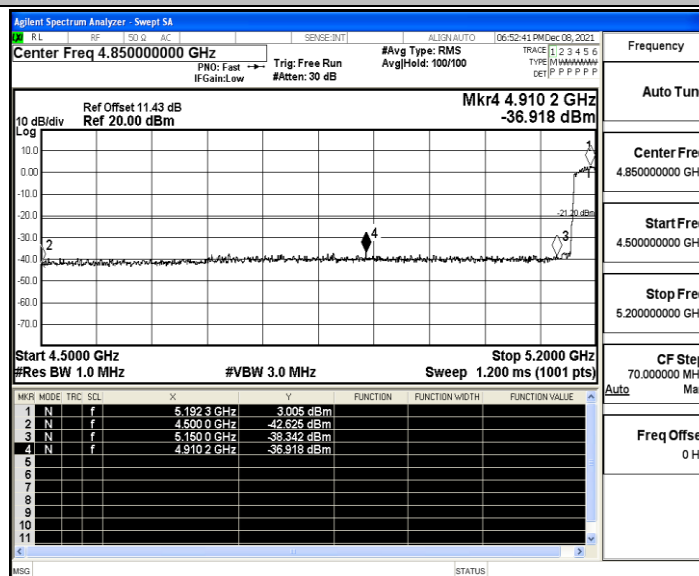
11N20SISO_Ant1_High_5240_Peak



11N40SISO_Ant1_Low_5190_AV

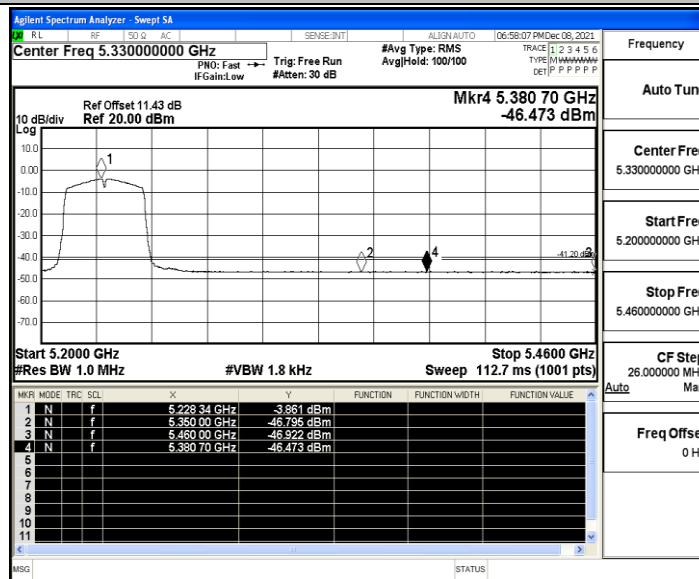


11N40SISO_Ant1_Low_5190_Peak

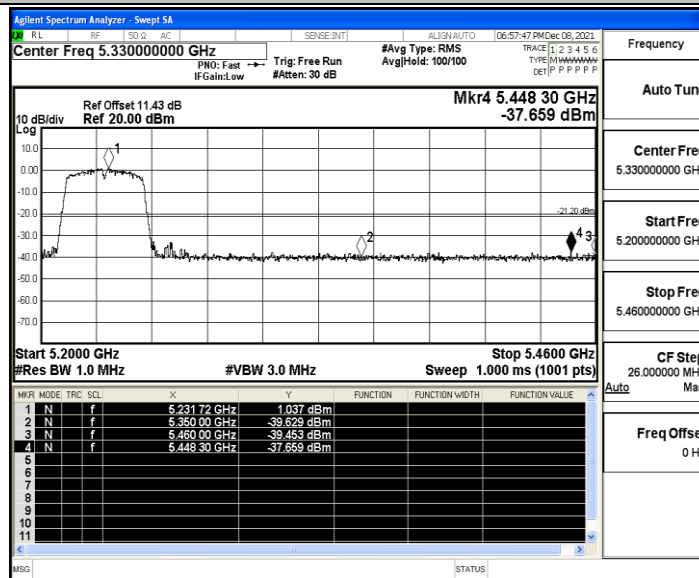




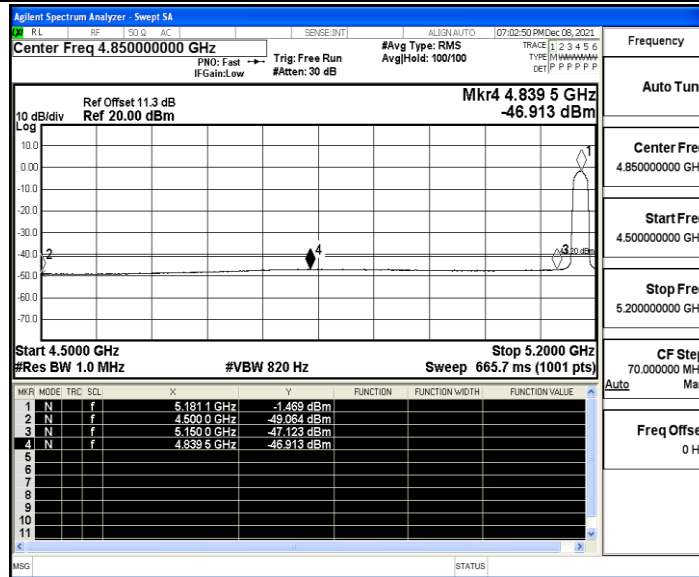
11N40SISO_Ant1_High_5230_AV



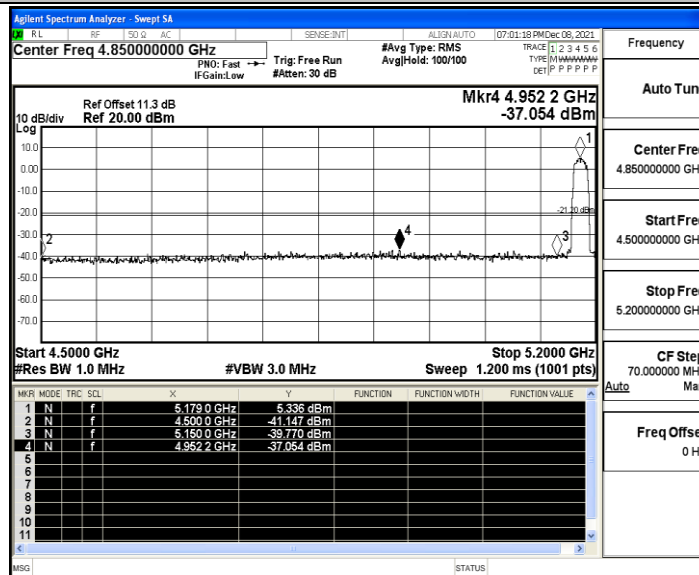
11N40SISO_Ant1_High_5230_Peak



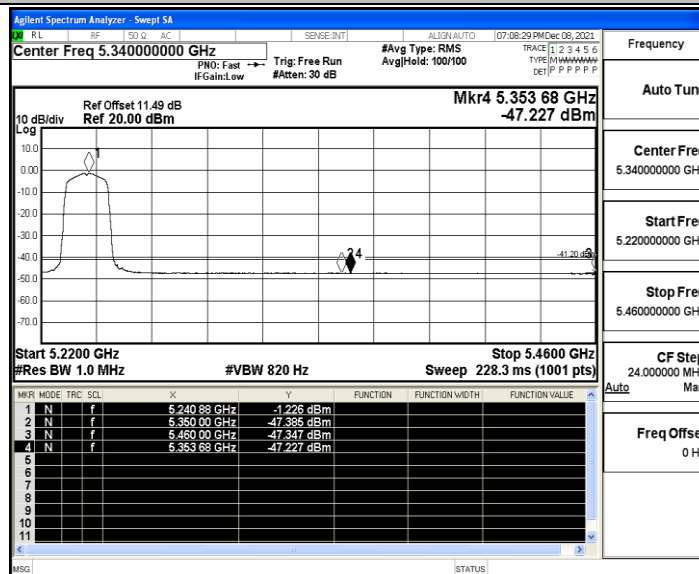
11AC20SISO_Ant1_Low_5180_AV



11AC20SISO_Ant1_Low_5180_Peak

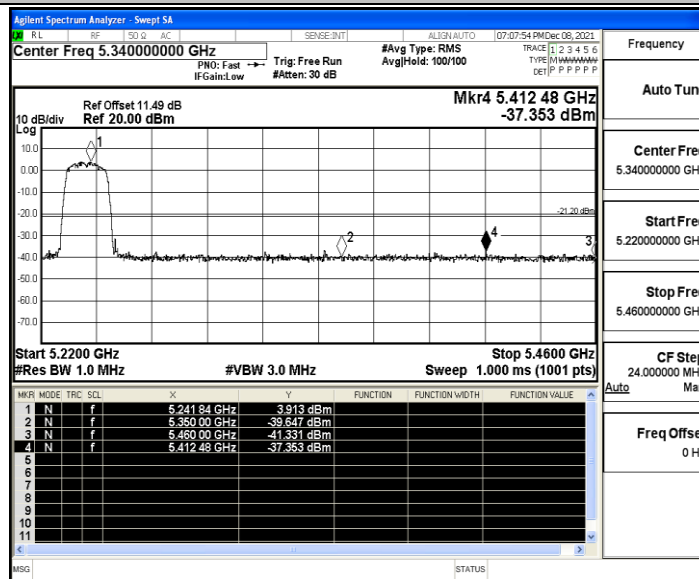


11AC20SISO_Ant1_High_5240_AV

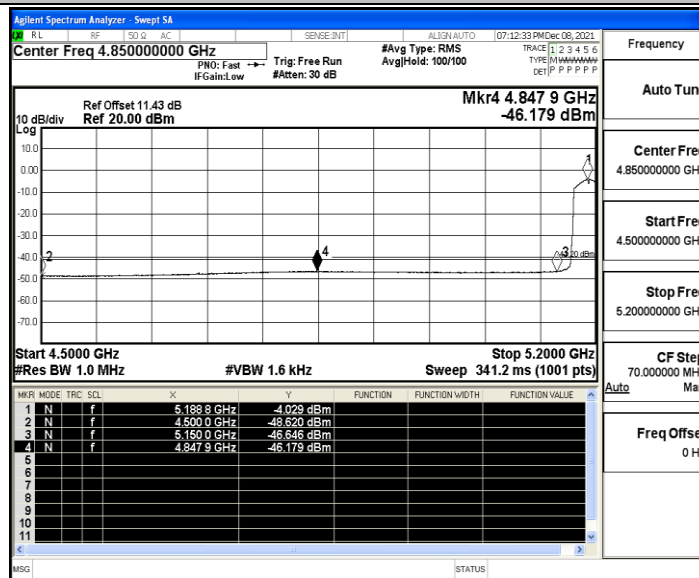




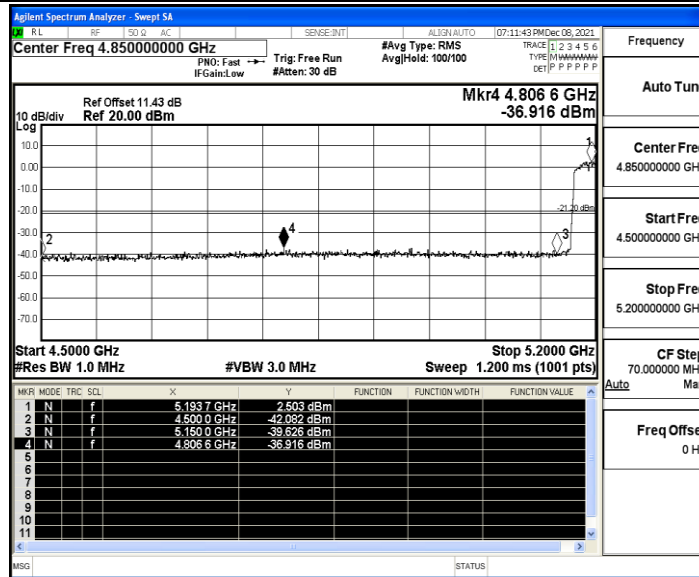
11AC20SISO_Ant1_High_5240_Peak



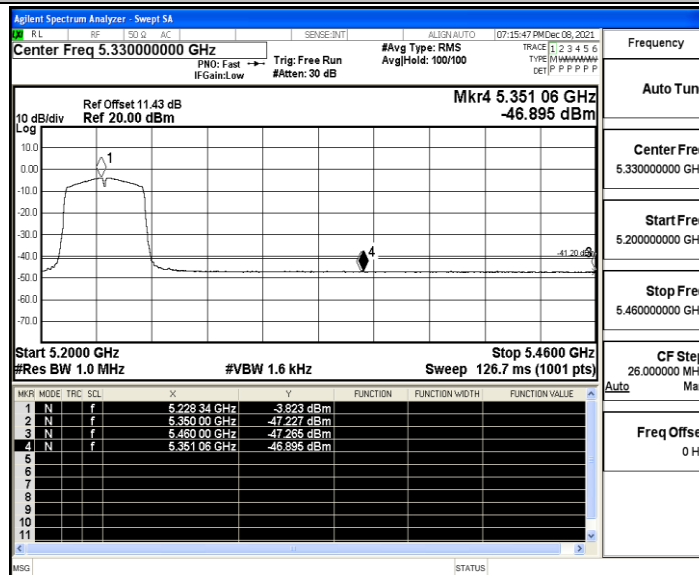
11AC40SISO_Ant1_Low_5190_AV



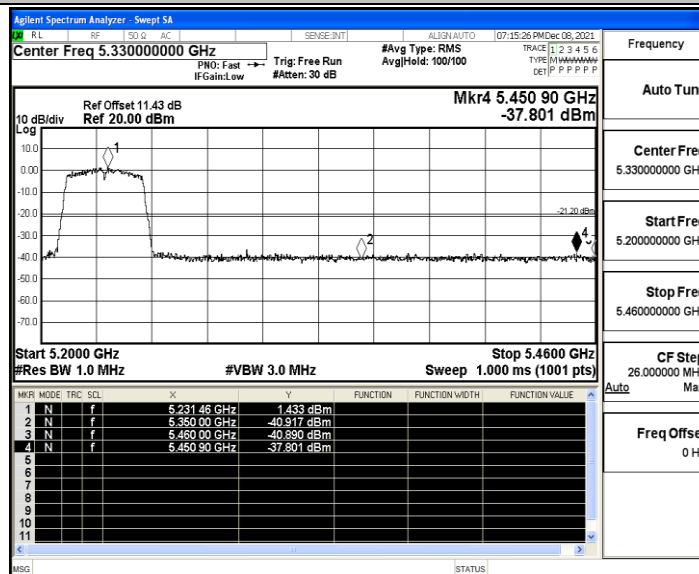
11AC40SISO_Ant1_Low_5190_Peak



11AC40SISO_Ant1_High_5230_AV

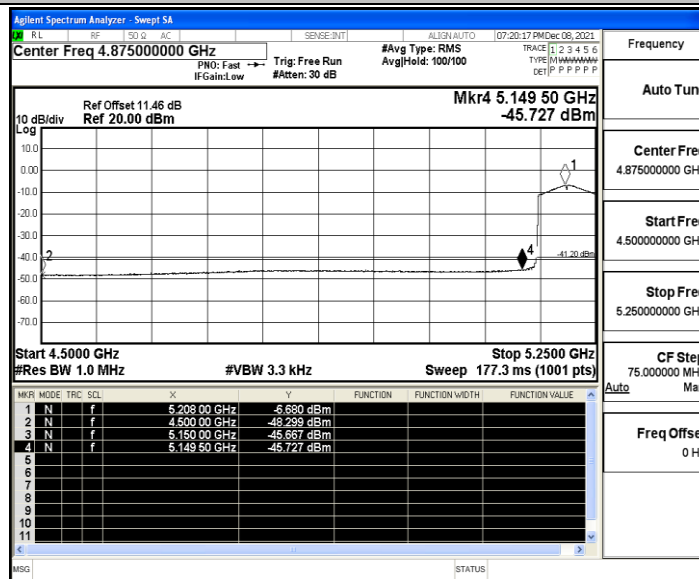


11AC40SISO_Ant1_High_5230_Peak

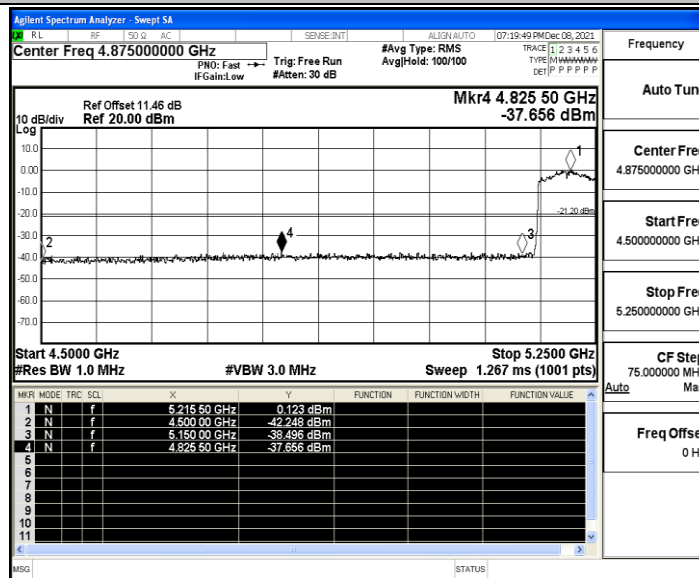




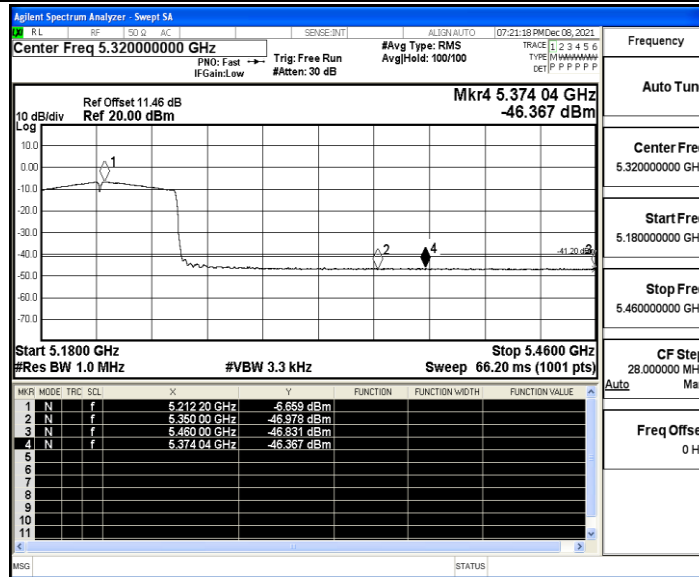
11AC80SISO_Ant1_Low_5210_AV



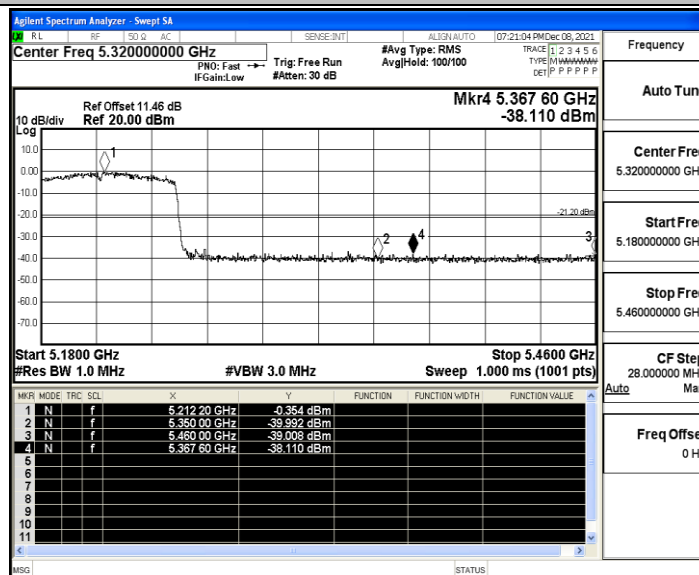
11AC80SISO_Ant1_Low_5210_Peak



11AC80SISO_Ant1_High_5210_AV



11AC80SISO_Ant1_High_5210_Peak





D.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SISO	Ant1	5180	NV	NT	-1000	-0.19305	20	PASS
			LV	NT	-4000	-0.772201	20	PASS
			HV	NT	-5000	-0.965251	20	PASS
		5200	NV	NT	-7000	-1.346154	20	PASS
			LV	NT	-8000	-1.538462	20	PASS
			HV	NT	-9000	-1.730769	20	PASS
		5240	NV	NT	-9000	-1.717557	20	PASS
			LV	NT	-9000	-1.717557	20	PASS
			HV	NT	-10000	-1.908397	20	PASS
11AC40SISO	Ant1	5190	NV	NT	-8000	-1.541426	20	PASS
			LV	NT	-9000	-1.734104	20	PASS
			HV	NT	-10000	-1.926782	20	PASS
		5230	NV	NT	-10000	-1.912046	20	PASS
			LV	NT	-10000	-1.912046	20	PASS
			HV	NT	-10000	-1.912046	20	PASS
11AC80SISO	Ant1	5210	NV	NT	-8000	-1.535509	20	PASS
			LV	NT	-9000	-1.727447	20	PASS
			HV	NT	-10000	-1.919386	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SISO	Ant1	5180	NV	-30	-7000	-1.351351	20	PASS
			NV	-20	-7000	-1.351351	20	PASS
			NV	-10	-8000	-1.544402	20	PASS
			NV	0	-8000	-1.544402	20	PASS
			NV	10	-8000	-1.544402	20	PASS
			NV	20	-9000	-1.737452	20	PASS
			NV	30	-9000	-1.737452	20	PASS
			NV	40	-9000	-1.737452	20	PASS
			NV	50	-9000	-1.737452	20	PASS
		5200	NV	-30	-9000	-1.730769	20	PASS
			NV	-20	-9000	-1.730769	20	PASS
			NV	-10	-9000	-1.730769	20	PASS
			NV	0	-10000	-1.923077	20	PASS
			NV	10	-10000	-1.923077	20	PASS



			NV	20	-10000	-1.923077	20	PASS
			NV	30	-10000	-1.923077	20	PASS
			NV	40	-10000	-1.923077	20	PASS
			NV	50	-10000	-1.923077	20	PASS
		5240	NV	-30	-10000	-1.908397	20	PASS
			NV	-20	-10000	-1.908397	20	PASS
			NV	-10	-10000	-1.908397	20	PASS
			NV	0	-10000	-1.908397	20	PASS
			NV	10	-11000	-2.099237	20	PASS
			NV	20	-10000	-1.908397	20	PASS
			NV	30	-11000	-2.099237	20	PASS
			NV	40	-11000	-2.099237	20	PASS
			NV	50	-11000	-2.099237	20	PASS
11AC40SIS O	Ant1	5190	NV	-30	-10000	-1.926782	20	PASS
			NV	-20	-10000	-1.926782	20	PASS
			NV	-10	-10000	-1.926782	20	PASS
			NV	0	-11000	-2.119461	20	PASS
			NV	10	-11000	-2.119461	20	PASS
			NV	20	-11000	-2.119461	20	PASS
			NV	30	-11000	-2.119461	20	PASS
			NV	40	-11000	-2.119461	20	PASS
			NV	50	-11000	-2.119461	20	PASS
		5230	NV	-30	-11000	-2.10325	20	PASS
			NV	-20	-11000	-2.10325	20	PASS
			NV	-10	-11000	-2.10325	20	PASS
			NV	0	-11000	-2.10325	20	PASS
			NV	10	-11000	-2.10325	20	PASS
			NV	20	-11000	-2.10325	20	PASS
			NV	30	-11000	-2.10325	20	PASS
			NV	40	-11000	-2.10325	20	PASS
			NV	50	-11000	-2.10325	20	PASS
11AC80SIS O	Ant1	5210	NV	-30	-10000	-1.919386	20	PASS
			NV	-20	-10000	-1.919386	20	PASS
			NV	-10	-11000	-2.111324	20	PASS
			NV	0	-11000	-2.111324	20	PASS
			NV	10	-11000	-2.111324	20	PASS
			NV	20	-11000	-2.111324	20	PASS
			NV	30	-11000	-2.111324	20	PASS
			NV	40	-11000	-2.111324	20	PASS
			NV	50	-11000	-2.111324	20	PASS



D.6 Duty Cycle

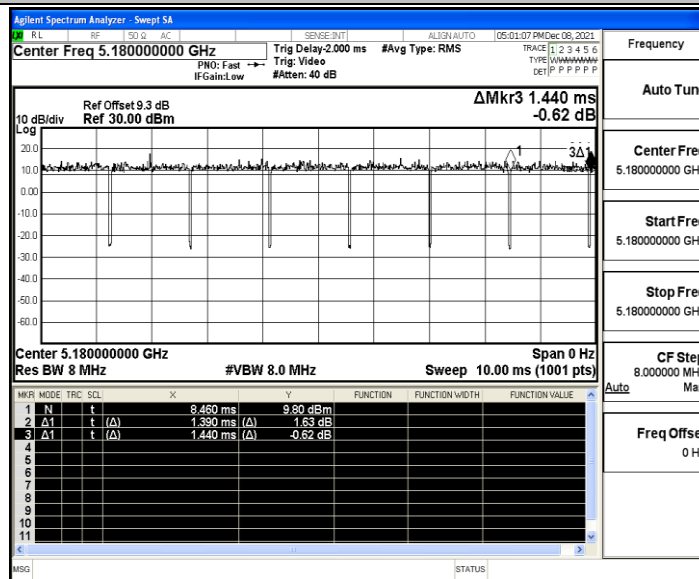
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	1.39	1.44	96.53	---	PASS
		5200	1.39	1.44	96.53	---	PASS
		5240	1.39	1.44	96.53	---	PASS
11N20SISO	Ant1	5180	1.30	1.35	96.30	---	PASS
		5200	1.30	1.35	96.30	---	PASS
		5240	1.30	1.35	96.30	---	PASS
11N40SISO	Ant1	5190	0.64	0.69	92.75	---	PASS
		5230	0.64	0.69	92.75	---	PASS
11AC20SISO	Ant1	5180	1.31	1.36	96.32	---	PASS
		5200	1.31	1.36	96.32	---	PASS
		5240	1.31	1.36	96.32	---	PASS
11AC40SISO	Ant1	5190	0.65	0.70	92.86	---	PASS
		5230	0.65	0.70	92.86	---	PASS
11AC80SISO	Ant1	5210	0.32	0.37	86.49	---	PASS

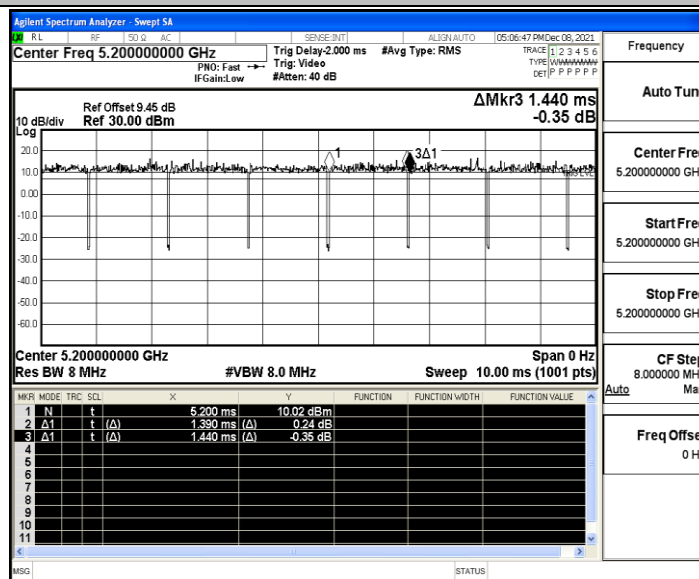


Test Graphs

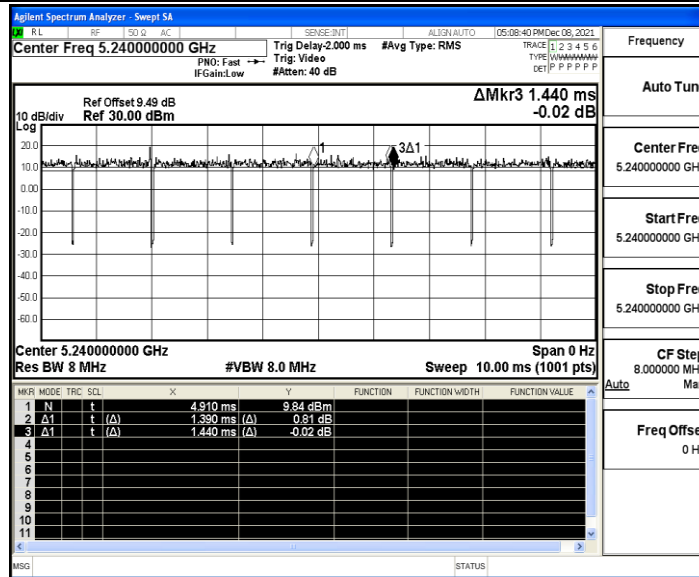
11A_Ant1_5180



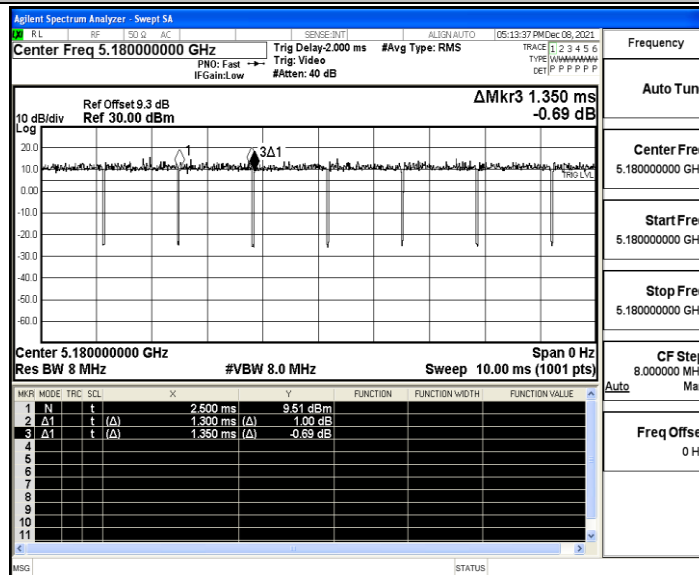
11A_Ant1_5200



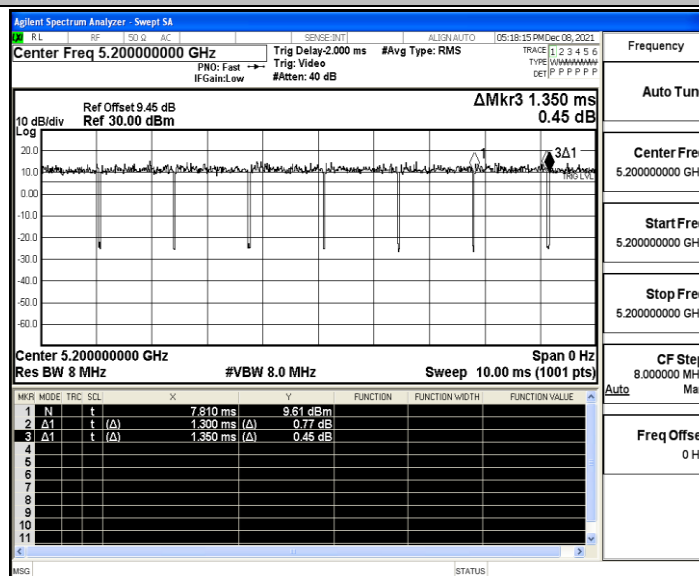
11A_Ant1_5240



11N20SISO_Ant1_5180

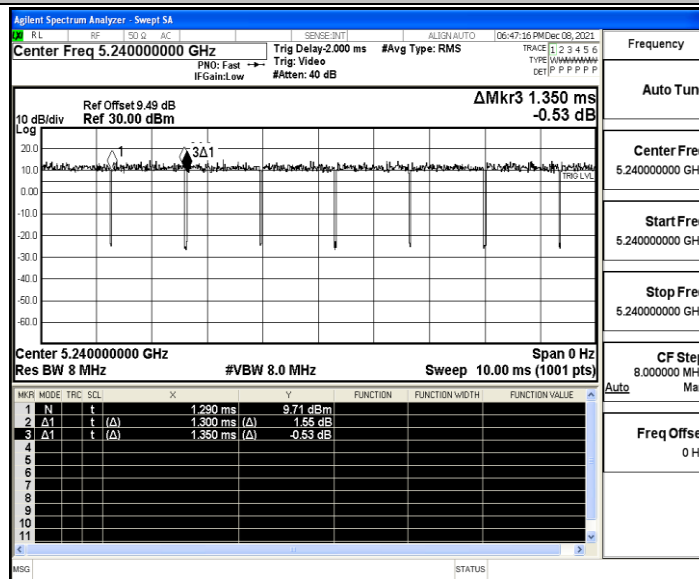


11N20SISO_Ant1_5200

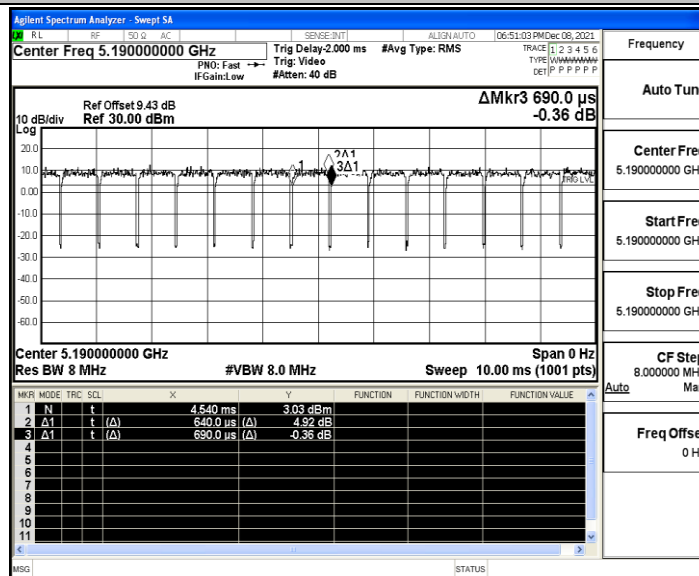




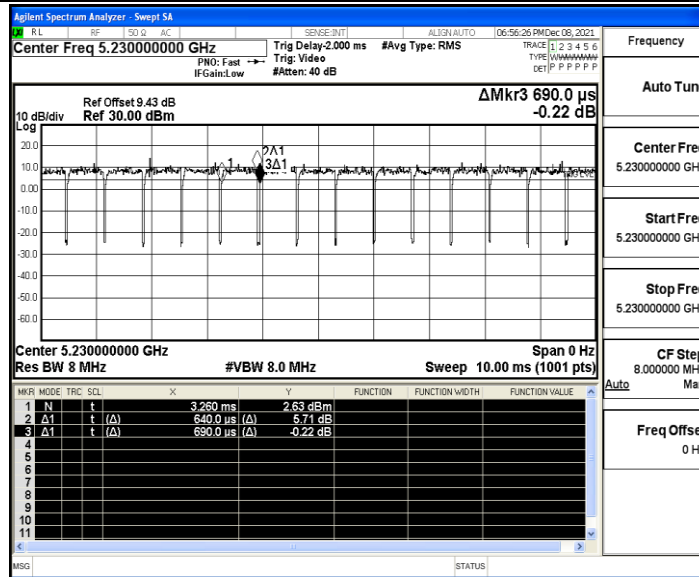
11N20SISO_Ant1_5240



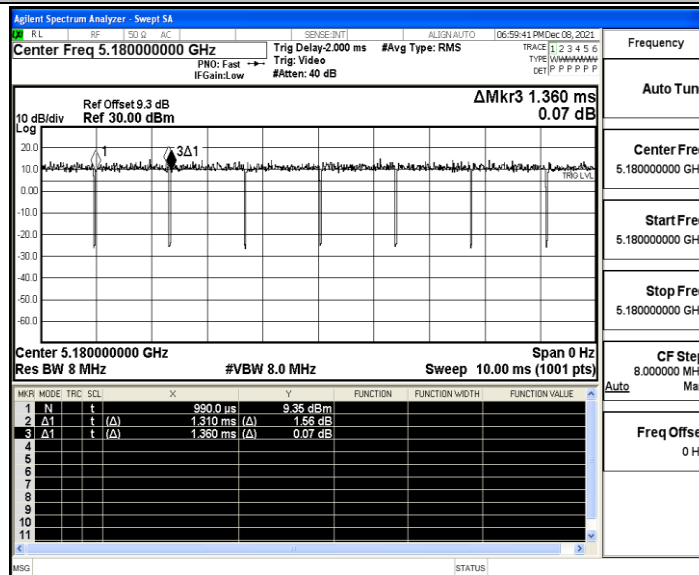
11N40SISO_Ant1_5190



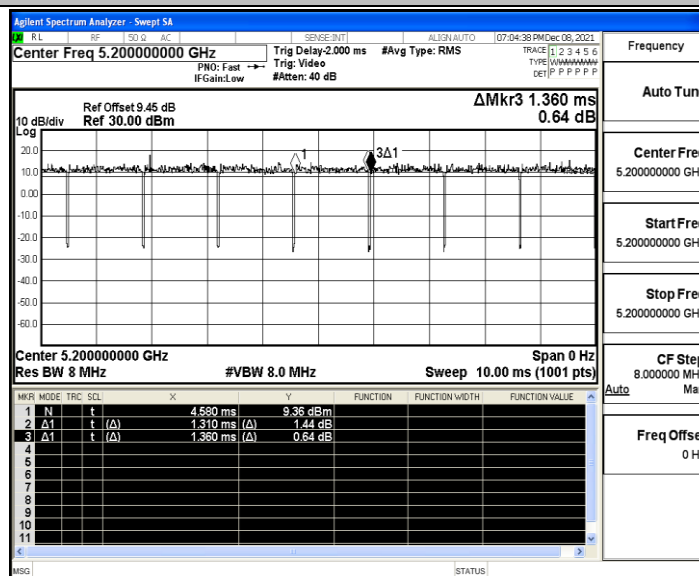
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

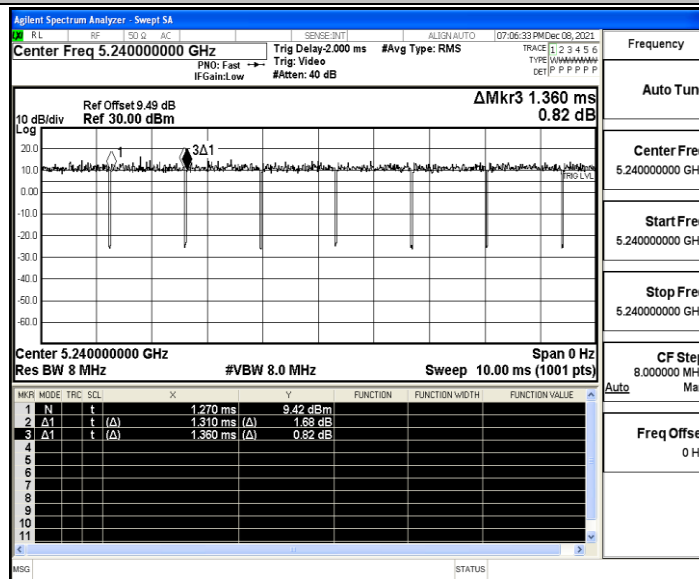


11AC20SISO_Ant1_5200

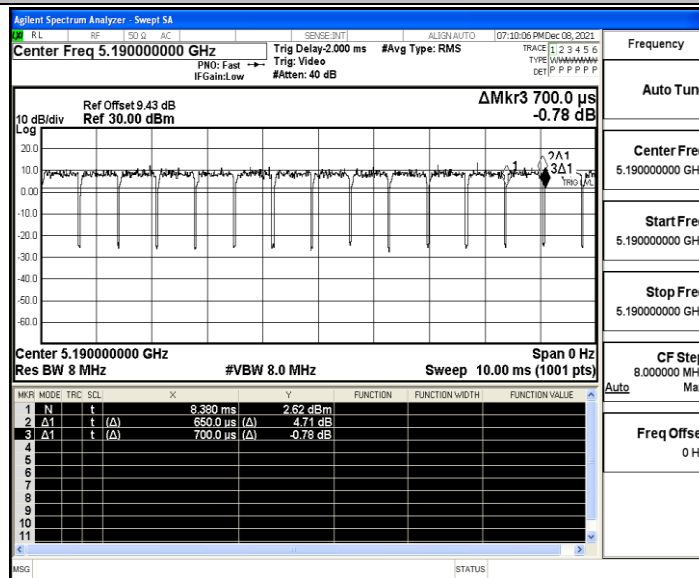




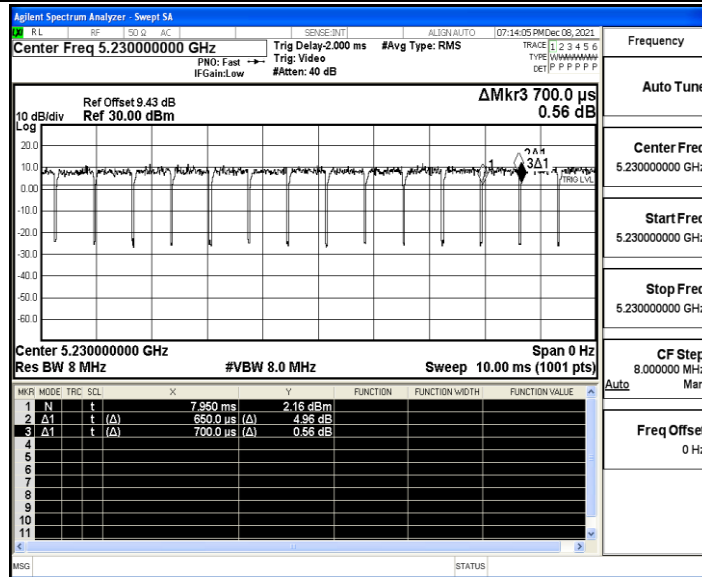
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

