



Appendix D

RF Test Data for 5.2GWIFI&5.8GWIFI (Conducted Measurement)

Product Name: HyBook

Trade Mark: HYUNDAI

Test Model: HT14CCIC44SG

Environmental Conditions

Temperature:	21.1℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan



Appendix D.1: Emission Bandwidth

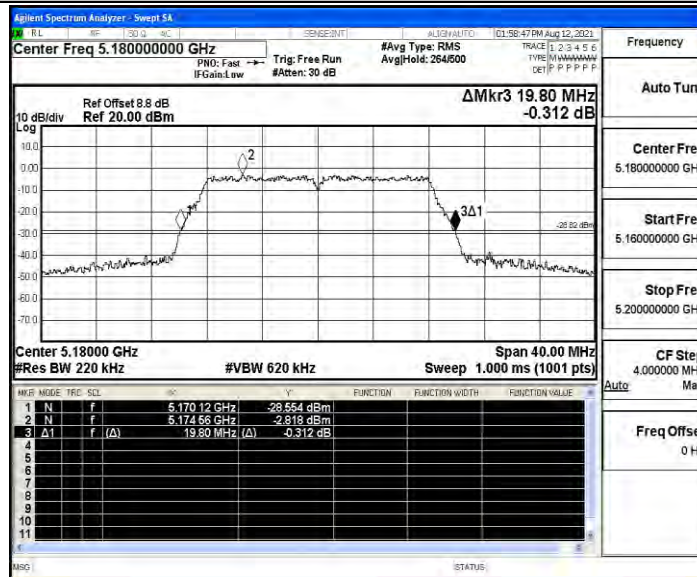
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.800	5170.120	5189.920	---	PASS
		5200	19.680	5190.160	5209.840	---	PASS
		5240	19.760	5230.160	5249.920	---	PASS
11N20SISO	Ant1	5180	19.960	5170.000	5189.960	---	PASS
		5200	19.960	5190.000	5209.960	---	PASS
		5240	19.960	5230.000	5249.960	---	PASS
11N40SISO	Ant1	5190	39.920	5170.160	5210.080	---	PASS
		5230	39.920	5210.080	5250.000	---	PASS
11AC20SISO	Ant1	5180	19.880	5170.120	5190.000	---	PASS
		5200	19.960	5190.080	5210.040	---	PASS
		5240	19.960	5230.000	5249.960	---	PASS
11AC40SISO	Ant1	5190	39.600	5170.240	5209.840	---	PASS
		5230	39.920	5210.080	5250.000	---	PASS
11AC80SISO	Ant1	5210	80.480	5170.000	5250.480	---	PASS

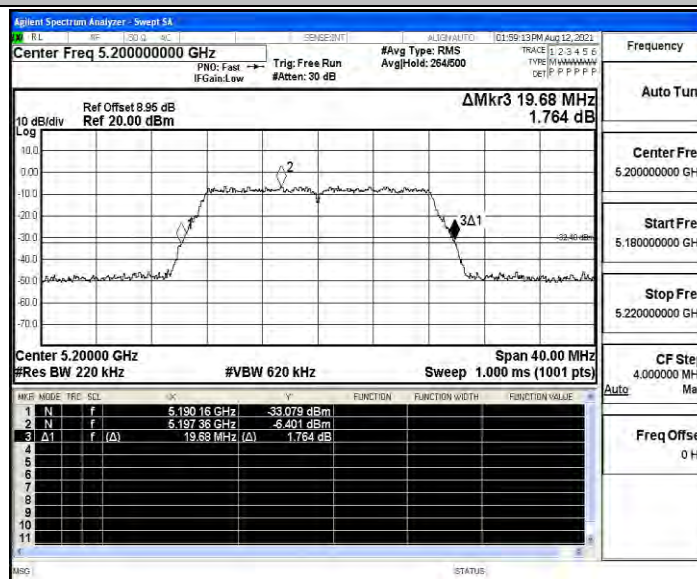


Test Graphs

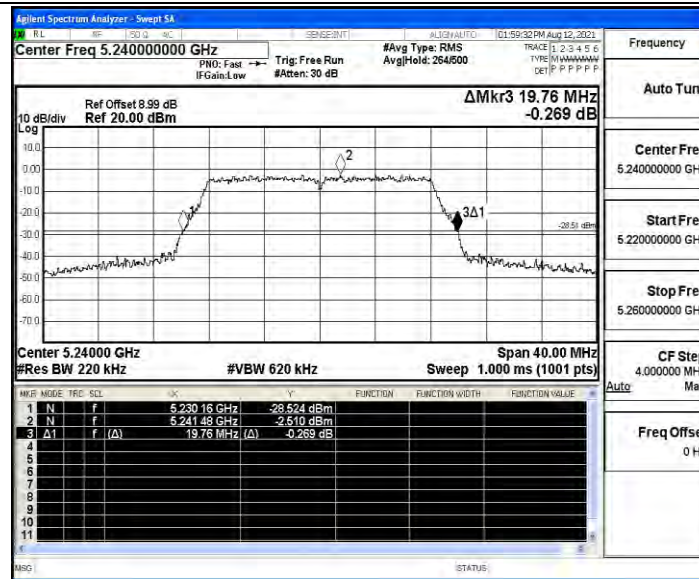
11A_Ant1_5180



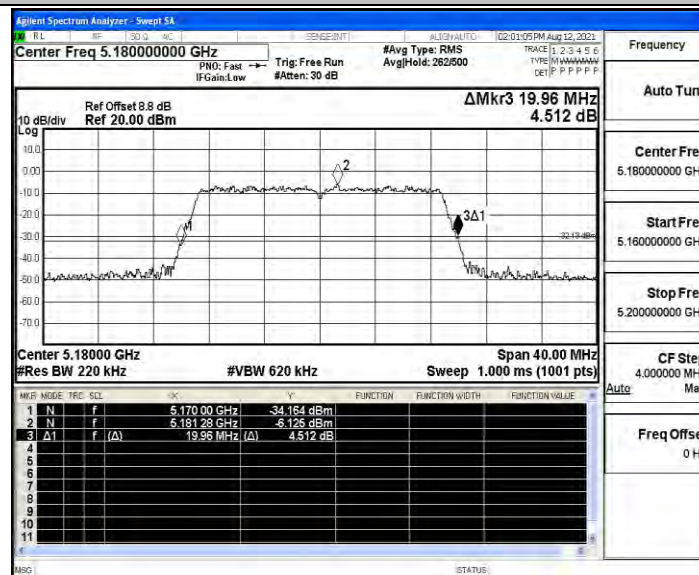
11A_Ant1_5200



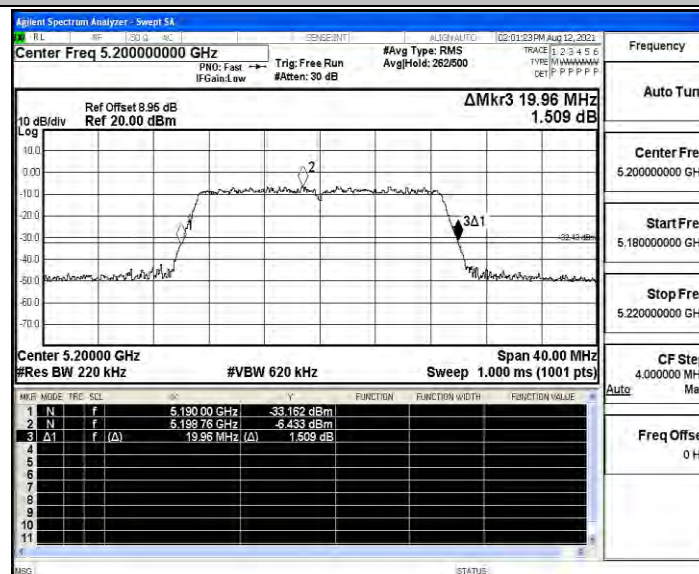
11A_Ant1_5240



11N20SISO_Ant1_5180

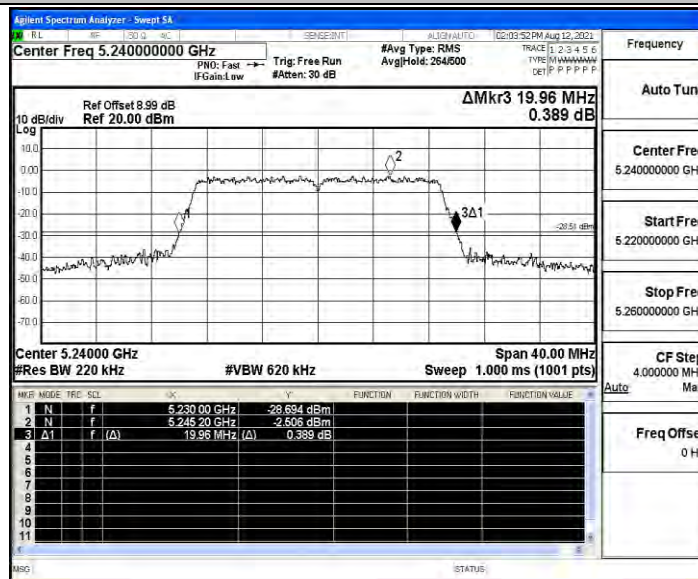


11N20SISO_Ant1_5200

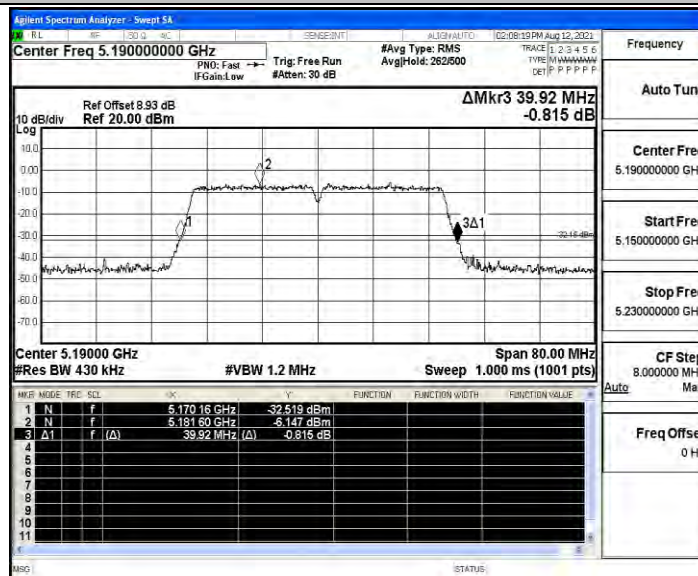




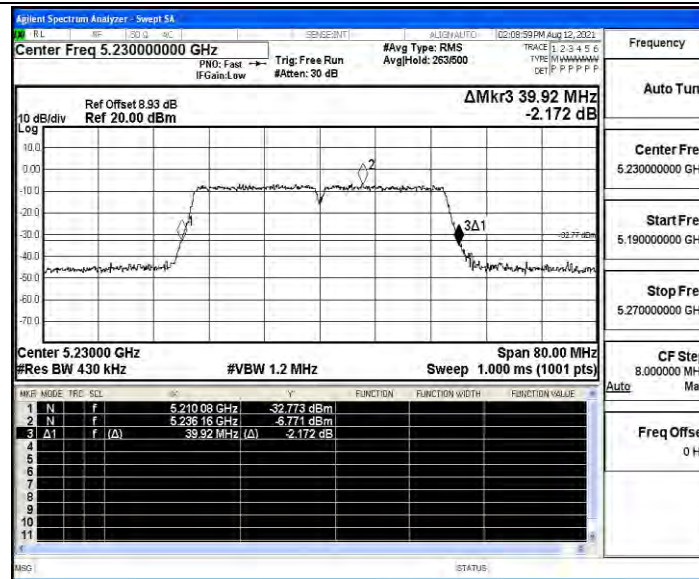
11N20SISO_Ant1_5240



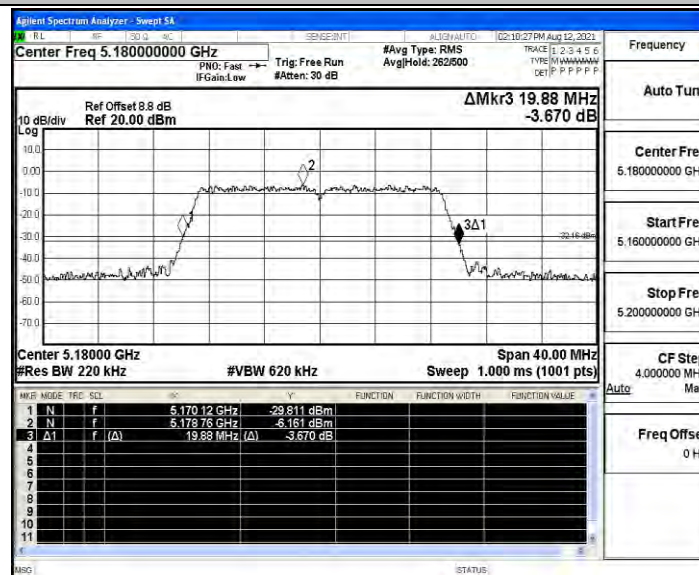
11N40SISO_Ant1_5190



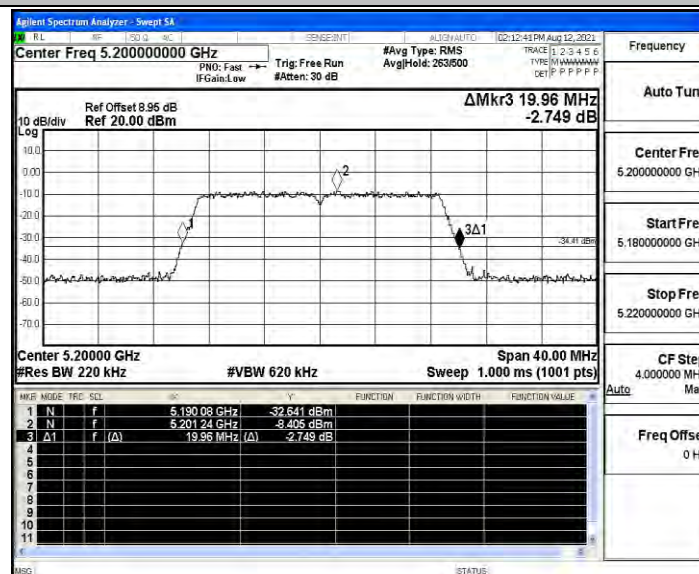
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

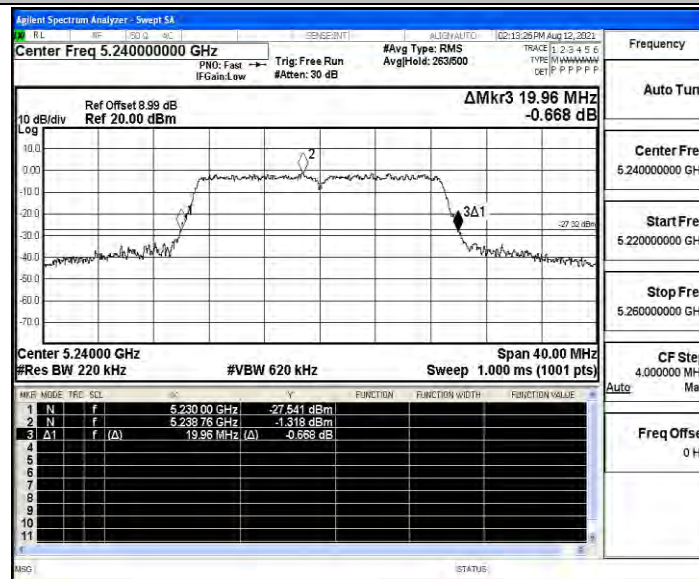


11AC20SISO_Ant1_5200

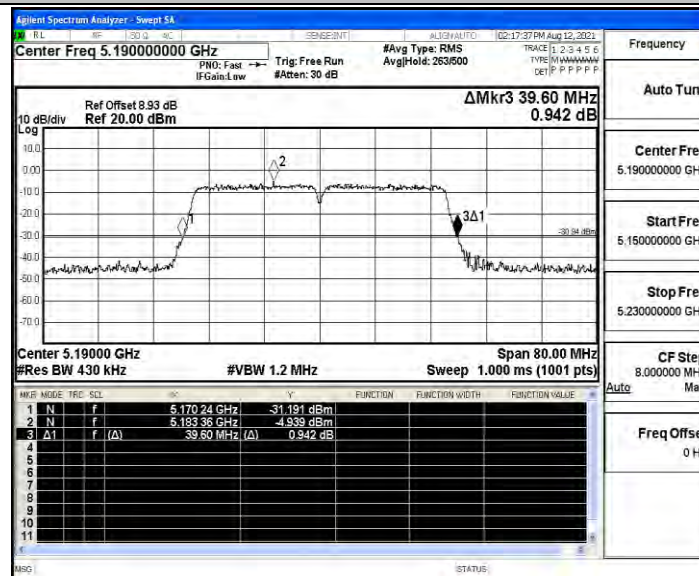




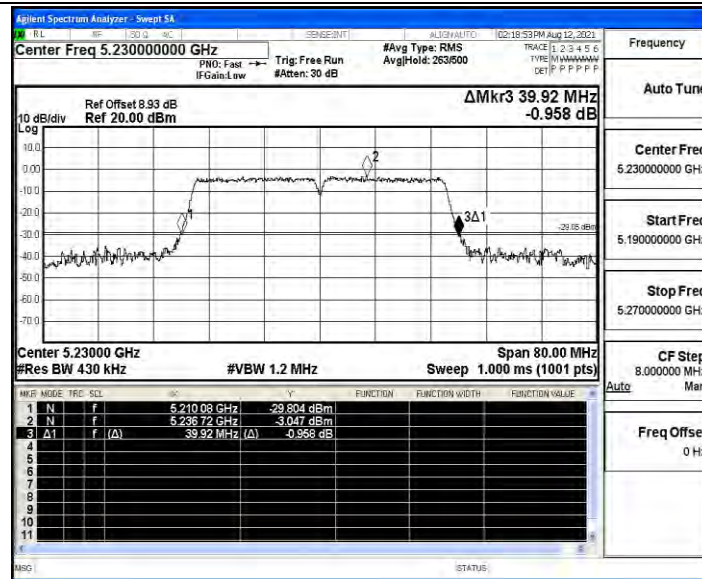
11AC20SISO_Ant1_5240



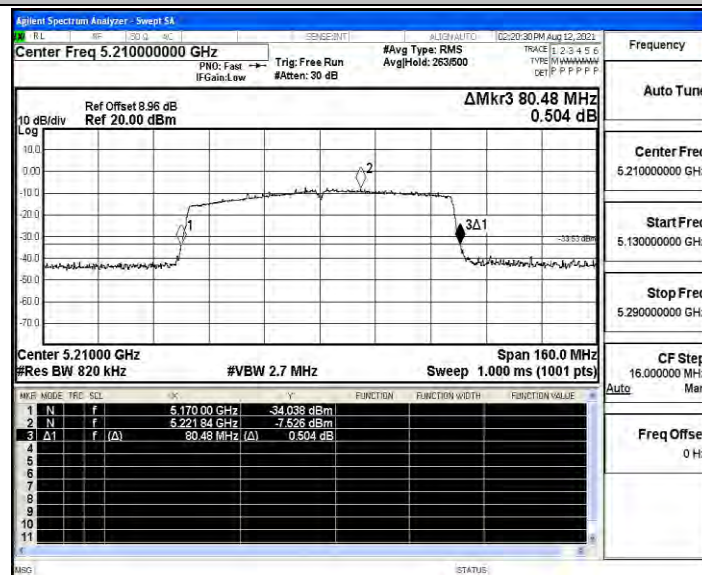
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





Min emission bandwidth

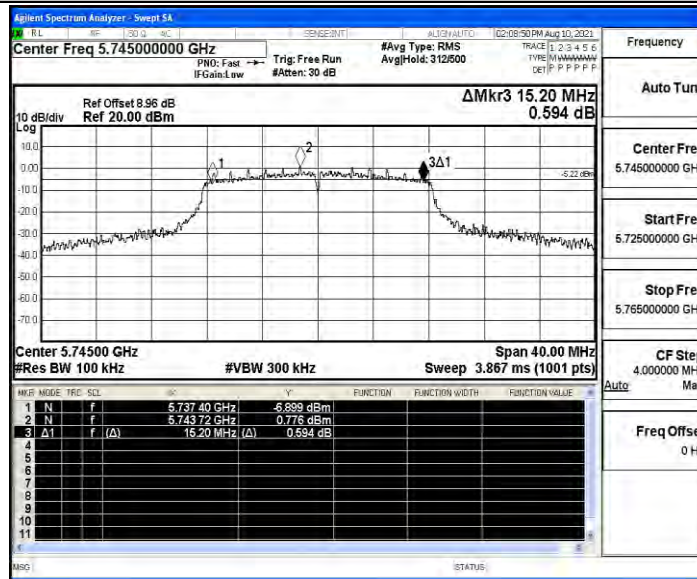
Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.200	5737.400	5752.600	0.5	PASS
		5785	15.200	5777.400	5792.600	0.5	PASS
		5825	15.200	5817.400	5832.600	0.5	PASS
11N20SISO	Ant1	5745	15.200	5737.400	5752.600	0.5	PASS
		5785	15.200	5777.400	5792.600	0.5	PASS
		5825	15.160	5817.440	5832.600	0.5	PASS
11N40SISO	Ant1	5755	35.200	5737.400	5772.600	0.5	PASS
		5795	35.200	5777.400	5812.600	0.5	PASS
11AC20SISO	Ant1	5745	15.200	5737.400	5752.600	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.200	5817.400	5832.600	0.5	PASS
11AC40SISO	Ant1	5755	35.200	5737.400	5772.600	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.520	5737.240	5812.760	0.5	PASS

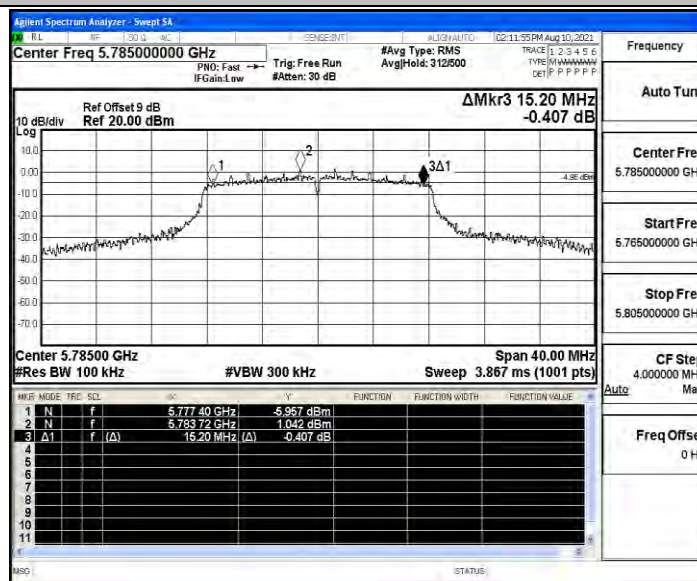


Test Graphs

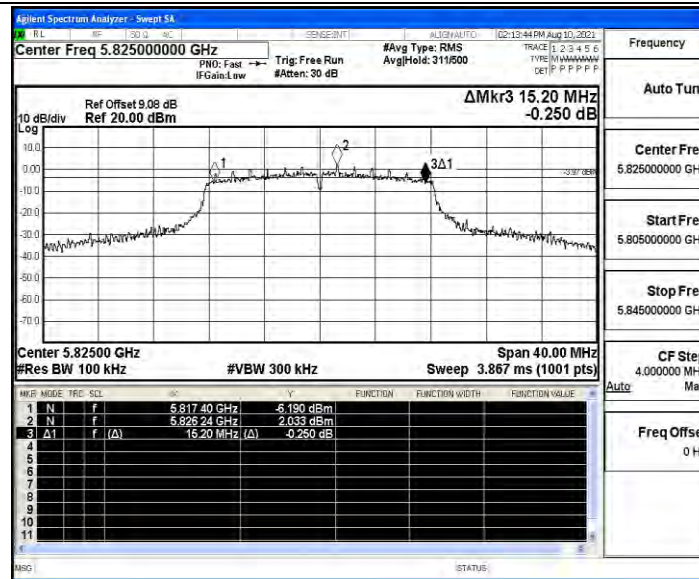
11A_Ant1_5745



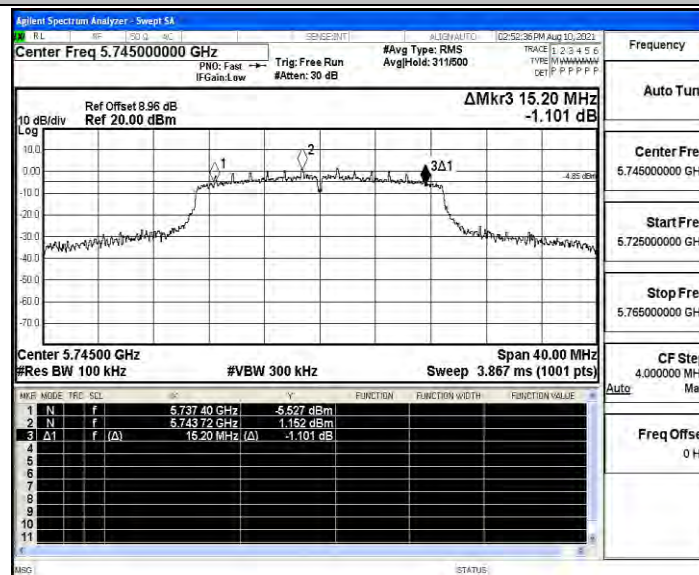
11A_Ant1_5785



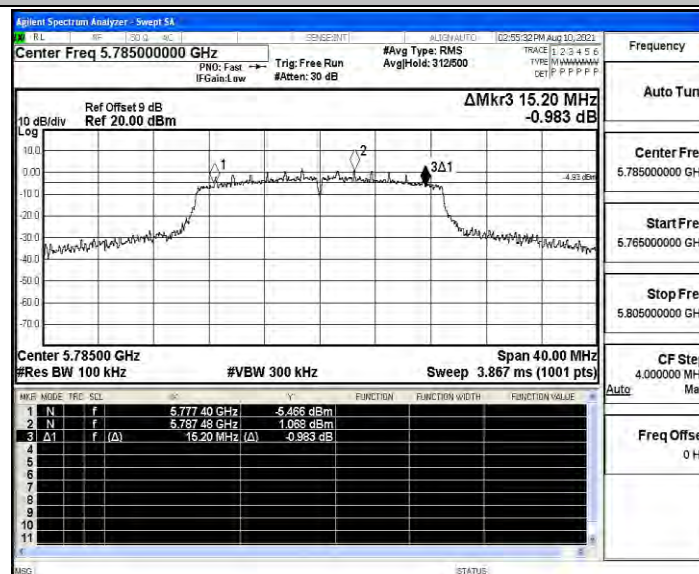
11A_Ant1_5825



11N20SISO_Ant1_5745

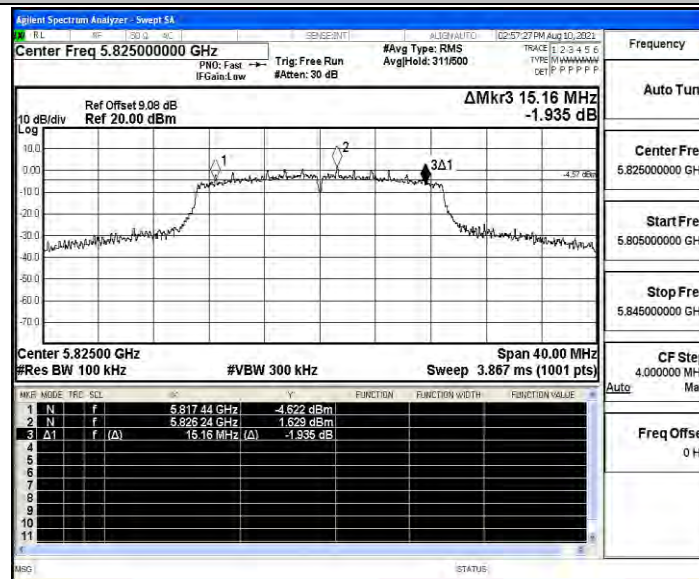


11N20SISO_Ant1_5785

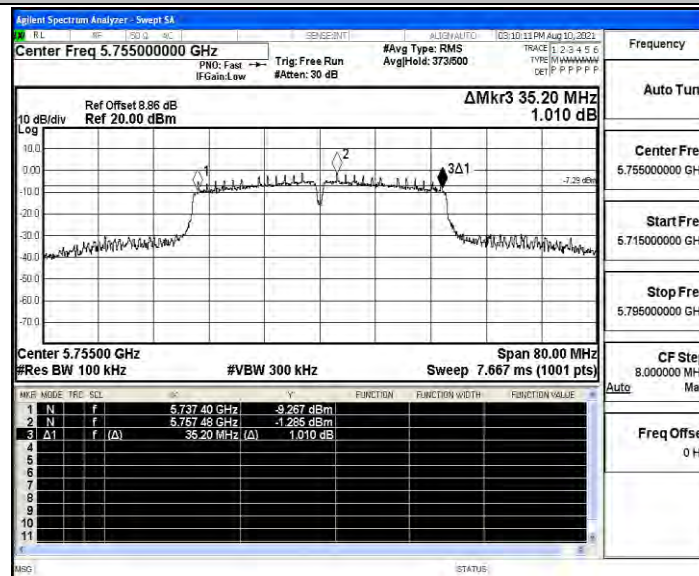




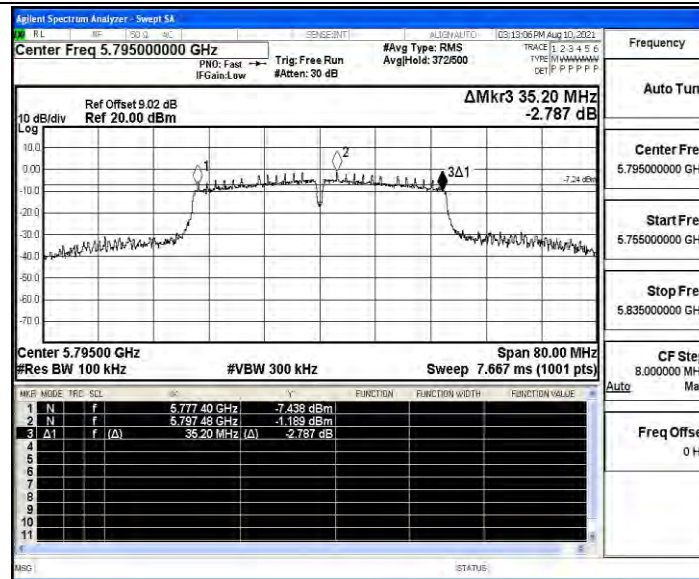
11N20SISO_Ant1_5825



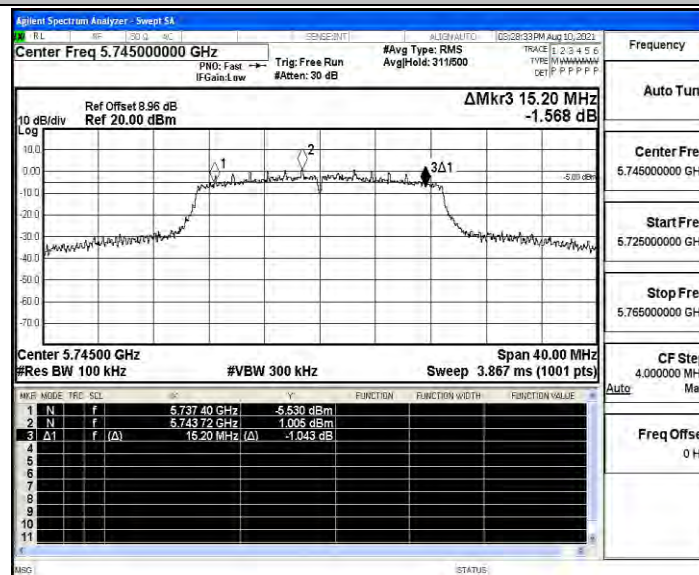
11N40SISO_Ant1_5755



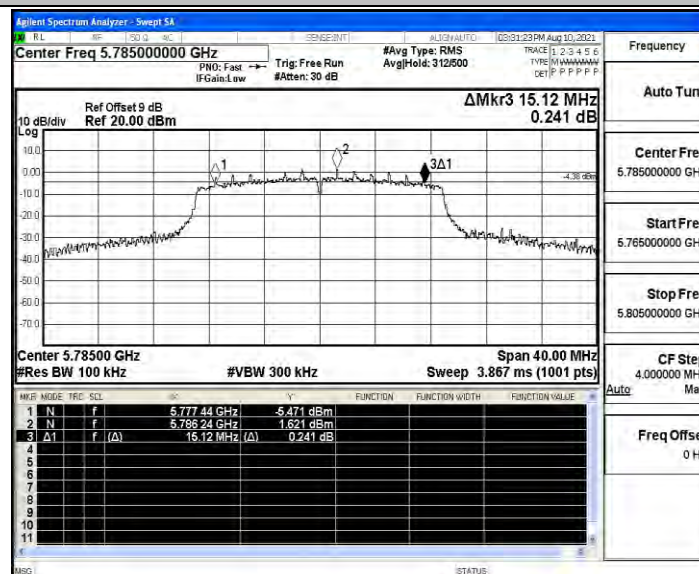
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745

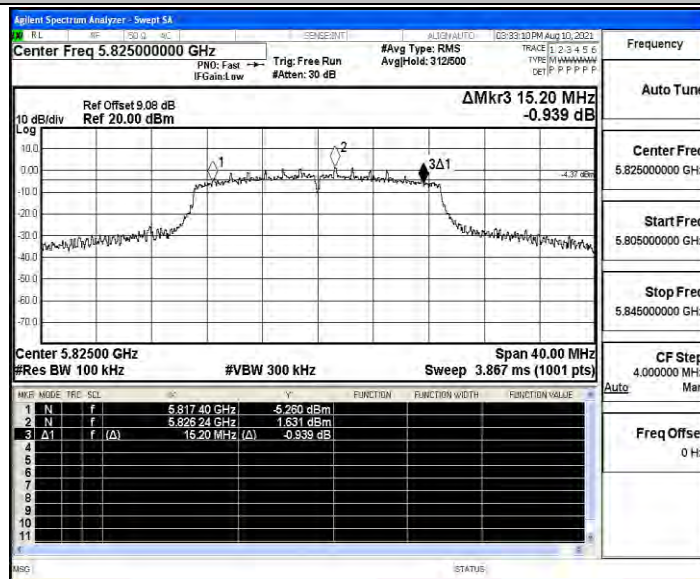


11AC20SISO_Ant1_5785

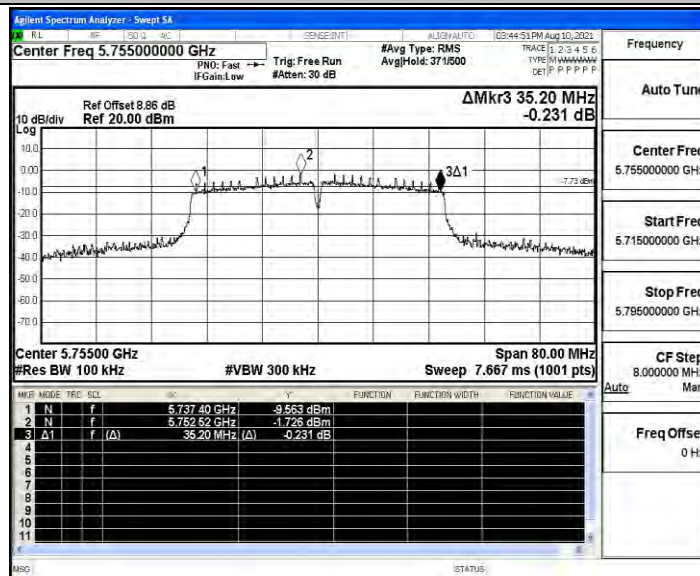




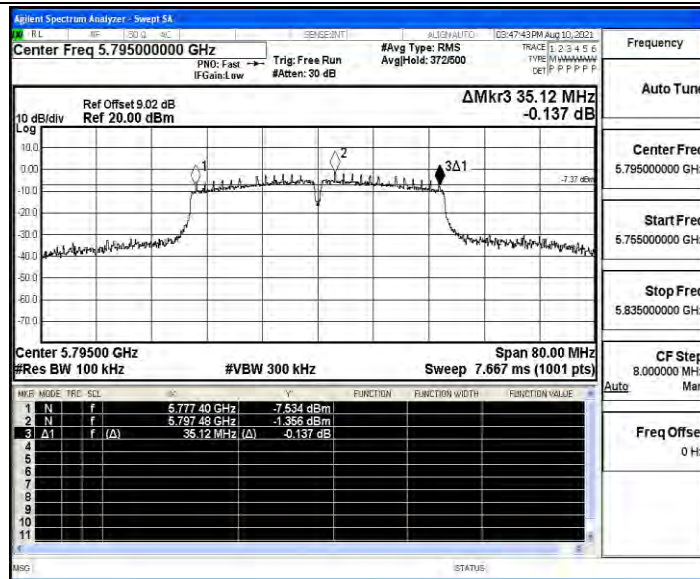
11AC20SISO_Ant1_5825



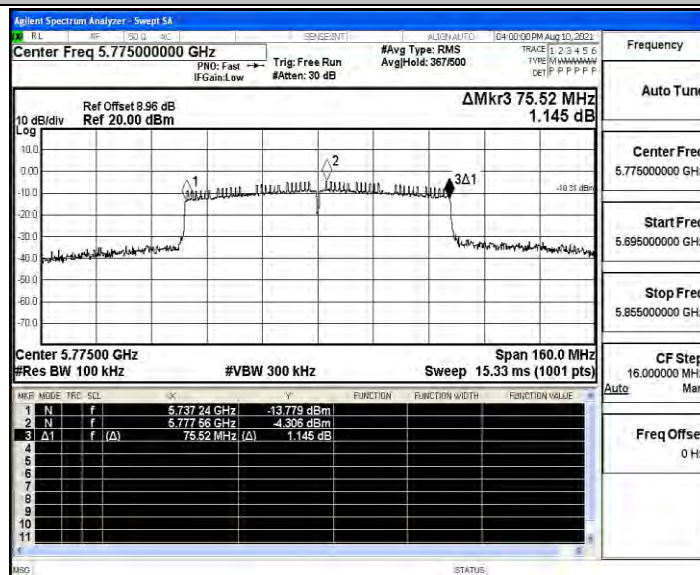
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775





Appendix D.2: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	7.02	≤ 23.98	PASS
		5200	7.65	≤ 23.98	PASS
		5240	7.81	≤ 23.98	PASS
		5745	7.54	≤ 30	PASS
		5785	7.75	≤ 30	PASS
		5825	7.95	≤ 30	PASS
11N20SISO	Ant1	5180	7.28	≤ 23.98	PASS
		5200	7.89	≤ 23.98	PASS
		5240	7.95	≤ 23.98	PASS
		5745	7.74	≤ 30	PASS
		5785	7.69	≤ 30	PASS
		5825	7.77	≤ 30	PASS
11N40SISO	Ant1	5190	7.56	≤ 23.98	PASS
		5230	7.91	≤ 23.98	PASS
		5755	7.59	≤ 30	PASS
		5795	7.70	≤ 30	PASS
11AC20SISO	Ant1	5180	7.45	≤ 23.98	PASS
		5200	7.72	≤ 23.98	PASS
		5240	7.01	≤ 23.98	PASS
		5745	7.59	≤ 30	PASS
		5785	7.53	≤ 30	PASS
		5825	7.78	≤ 30	PASS
11AC40SISO	Ant1	5190	7.45	≤ 23.98	PASS
		5230	7.69	≤ 23.98	PASS
		5755	7.48	≤ 30	PASS
		5795	7.61	≤ 30	PASS
11AC80SISO	Ant1	5210	7.06	≤ 23.98	PASS
		5775	7.68	≤ 30	PASS

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



Appendix D.3: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	0.87	≤ 11	PASS
		5200	0.38	≤ 11	PASS
		5240	0.71	≤ 11	PASS
11N20SISO	Ant1	5180	0.12	≤ 11	PASS
		5200	0.77	≤ 11	PASS
		5240	0.67	≤ 11	PASS
11N40SISO	Ant1	5190	-2.61	≤ 11	PASS
		5230	-2.2	≤ 11	PASS
11AC20SISO	Ant1	5180	0.34	≤ 11	PASS
		5200	0.71	≤ 11	PASS
		5240	0.57	≤ 11	PASS
11AC40SISO	Ant1	5190	-2.84	≤ 11	PASS
		5230	-2.47	≤ 11	PASS
11AC80SISO	Ant1	5210	-5.35	≤ 11	PASS

TestMode	Antenna	Channel	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	-1.22	≤ 30	PASS
		5785	-1.41	≤ 30	PASS
		5825	-0.70	≤ 30	PASS
11N20SISO	Ant1	5745	-1.08	≤ 30	PASS
		5785	-1.16	≤ 30	PASS
		5825	-1.34	≤ 30	PASS
11N40SISO	Ant1	5755	-4.34	≤ 30	PASS
		5795	-4.39	≤ 30	PASS
11AC20SISO	Ant1	5745	-1.78	≤ 30	PASS
		5785	-1.23	≤ 30	PASS
		5825	-1.50	≤ 30	PASS
11AC40SISO	Ant1	5755	-4.39	≤ 30	PASS
		5795	-4.33	≤ 30	PASS
11AC80SISO	Ant1	5775	-7.75	≤ 30	PASS

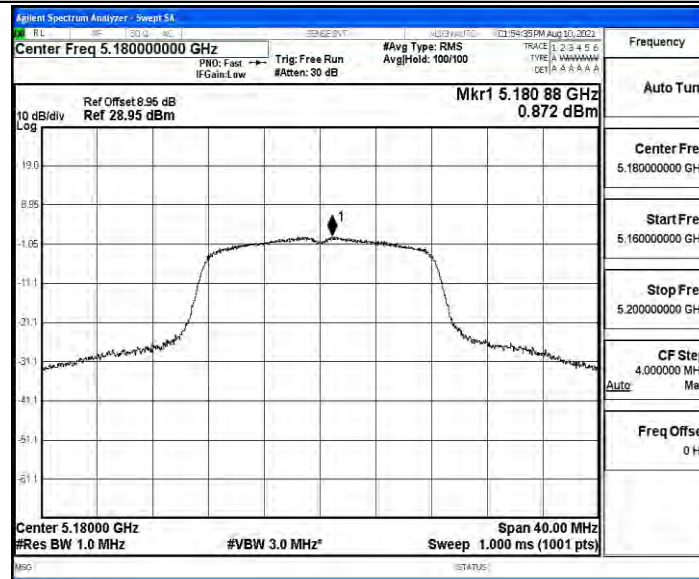
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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

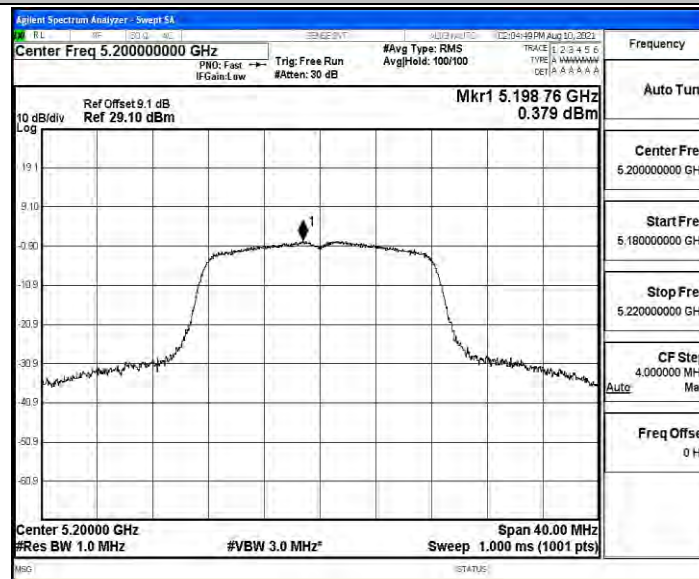


Test Graphs

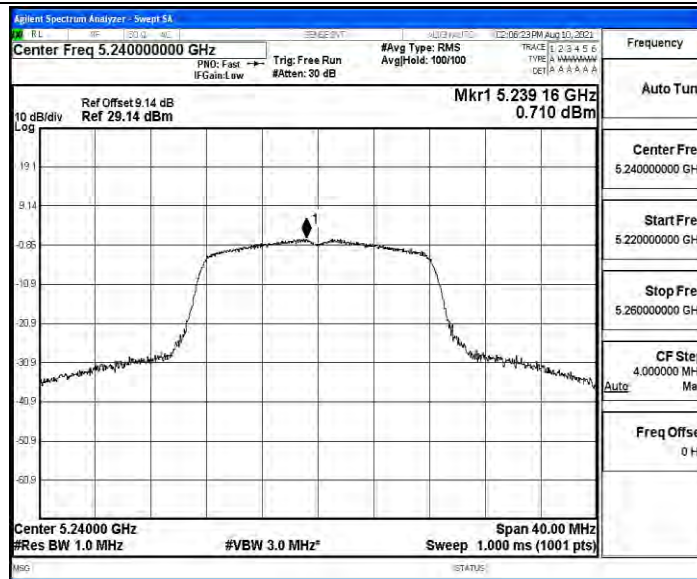
11A_Ant1_5180



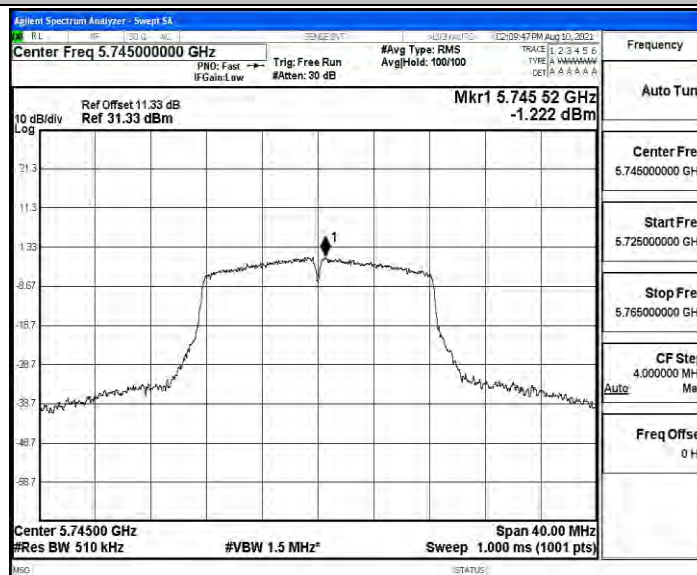
11A_Ant1_5200



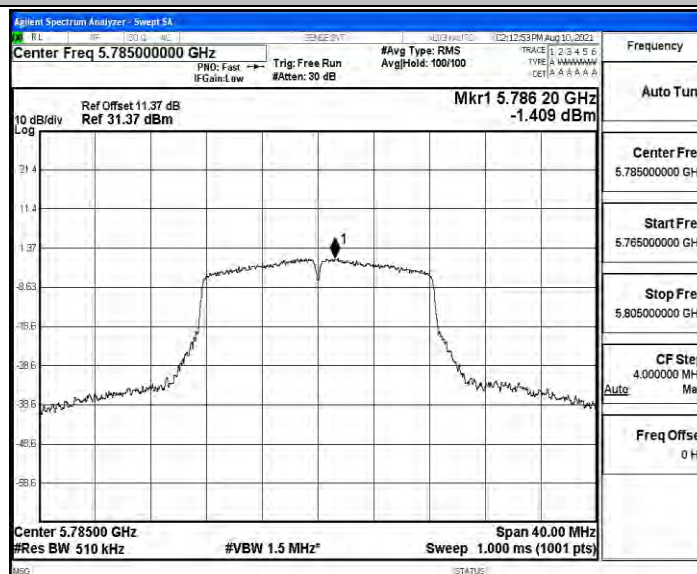
11A_Ant1_5240



11A_Ant1_5745

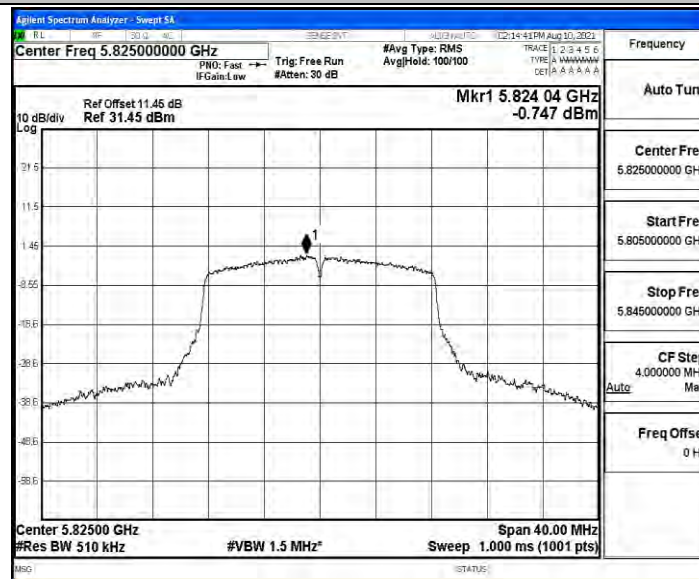


11A_Ant1_5785

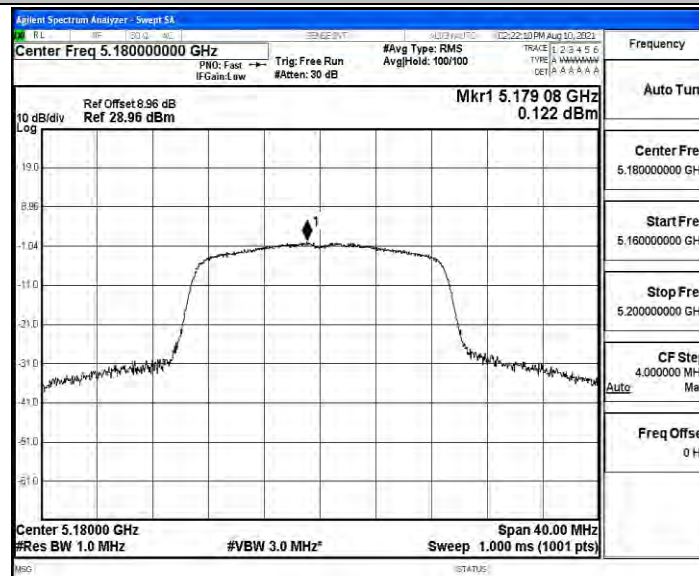




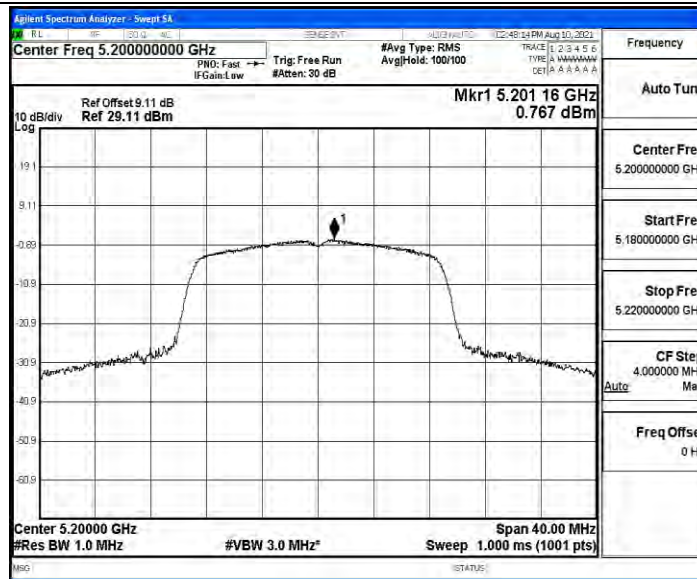
11A_Ant1_5825



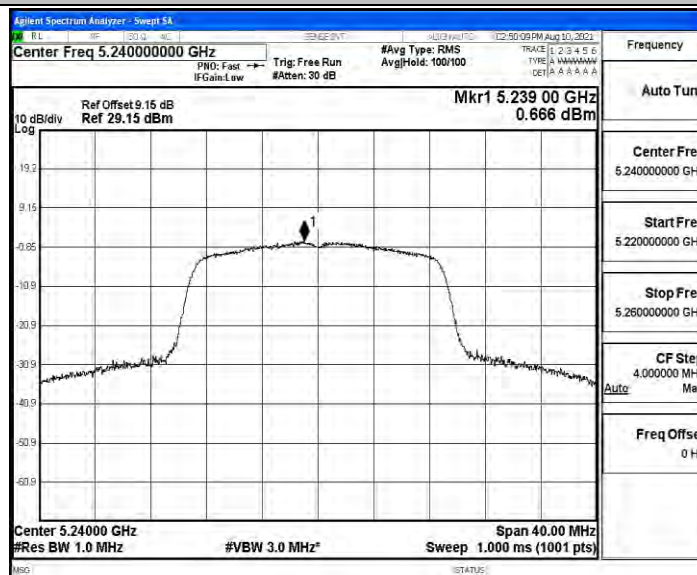
11N20SISO_Ant1_5180



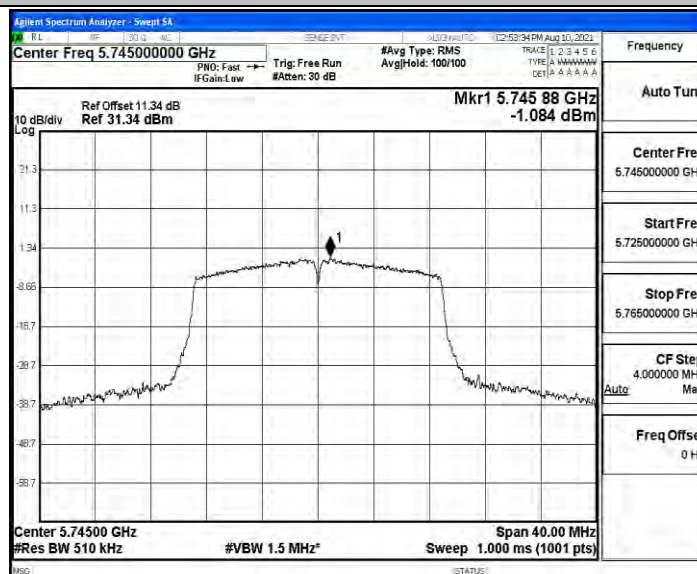
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240

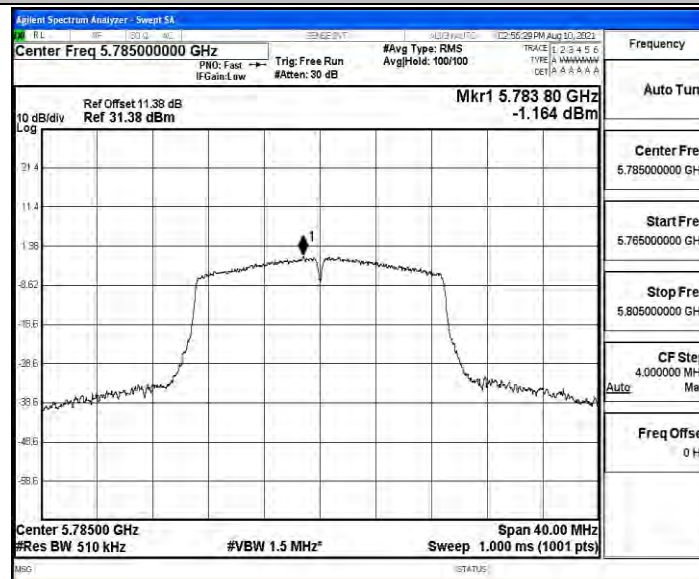


11N20SISO_Ant1_5745

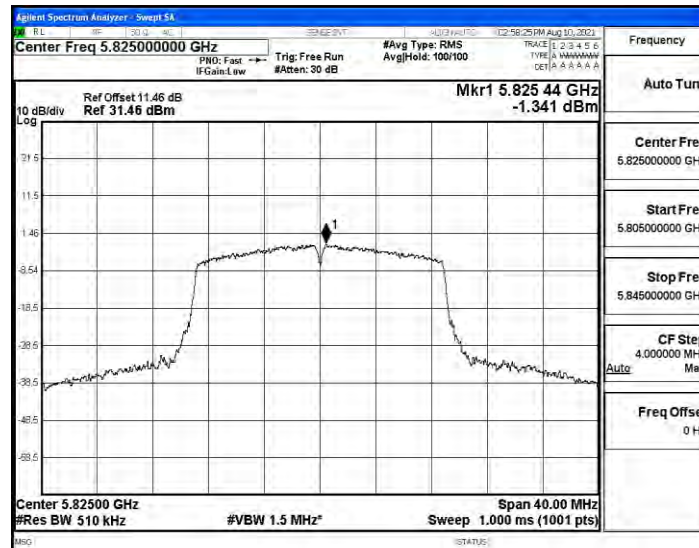




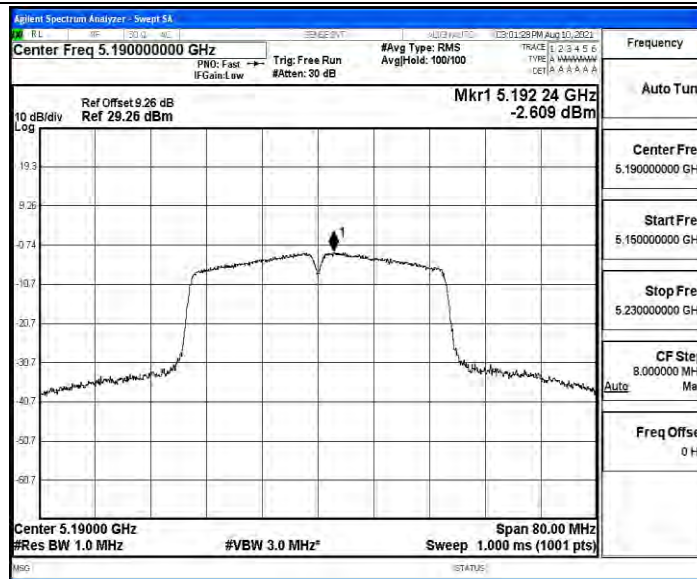
11N20SISO_Ant1_5785



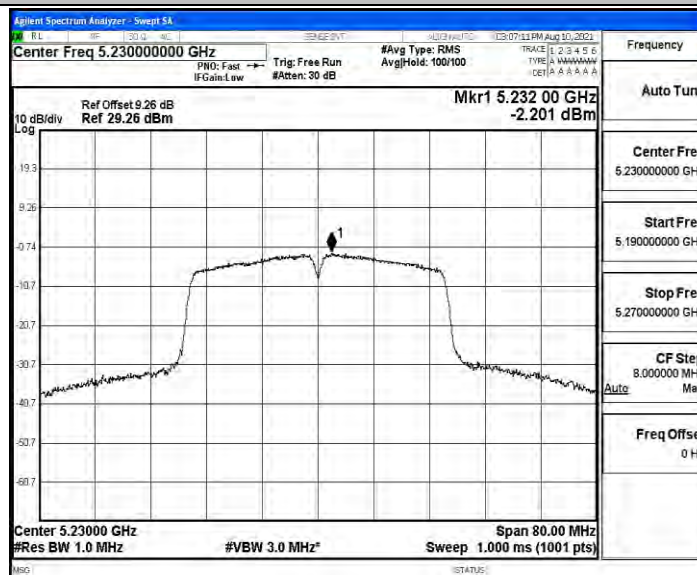
11N20SISO_Ant1_5825



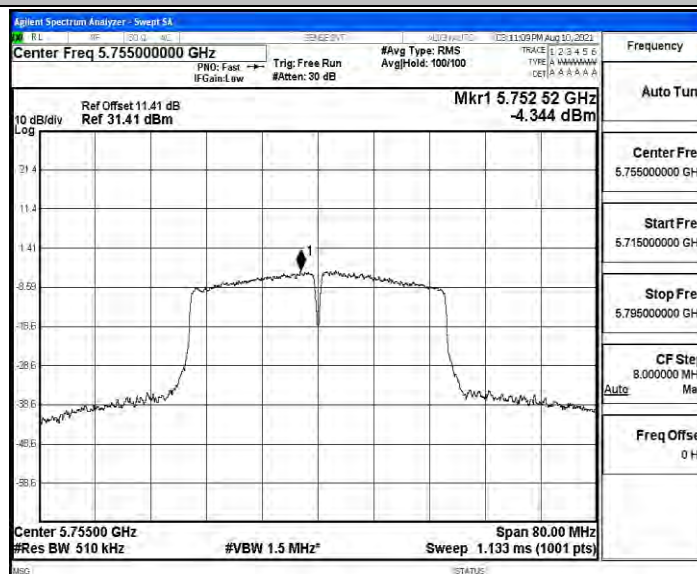
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230

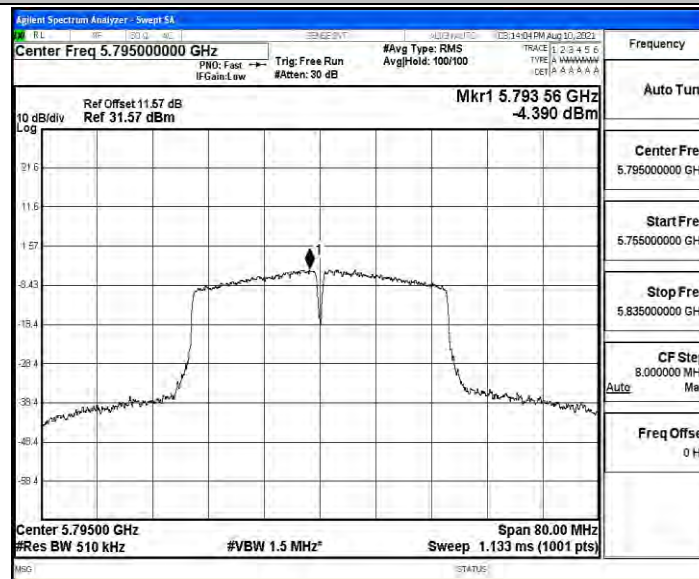


11N40SISO_Ant1_5755

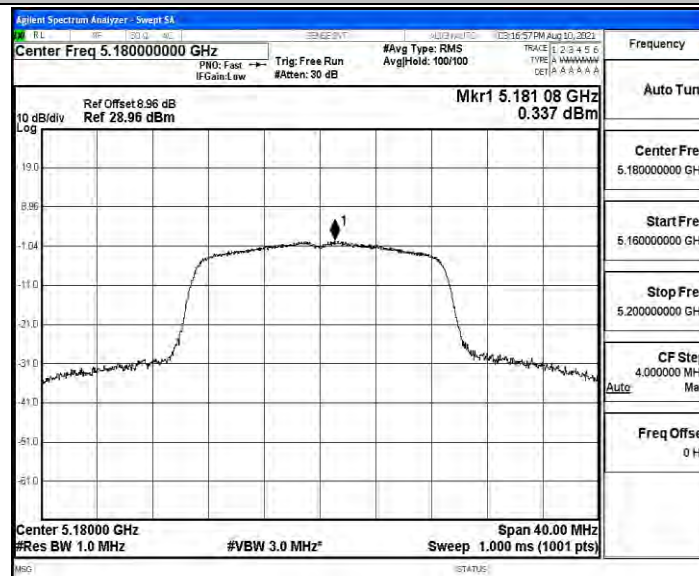




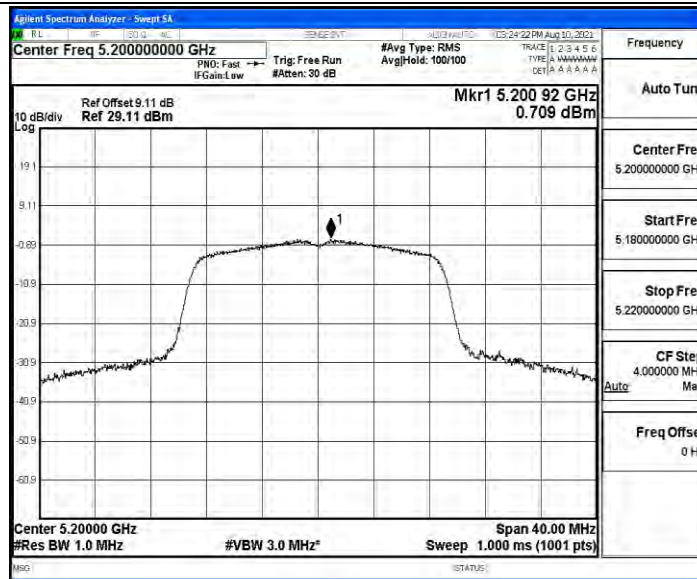
11N40SISO_Ant1_5795



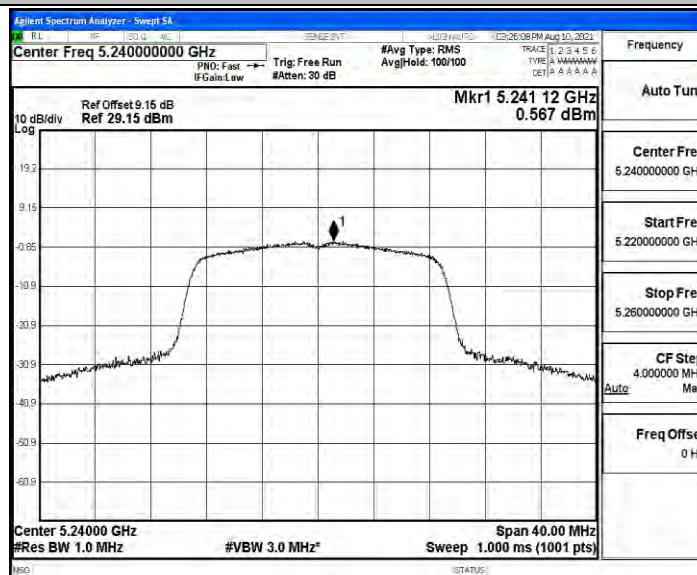
11AC20SISO_Ant1_5180



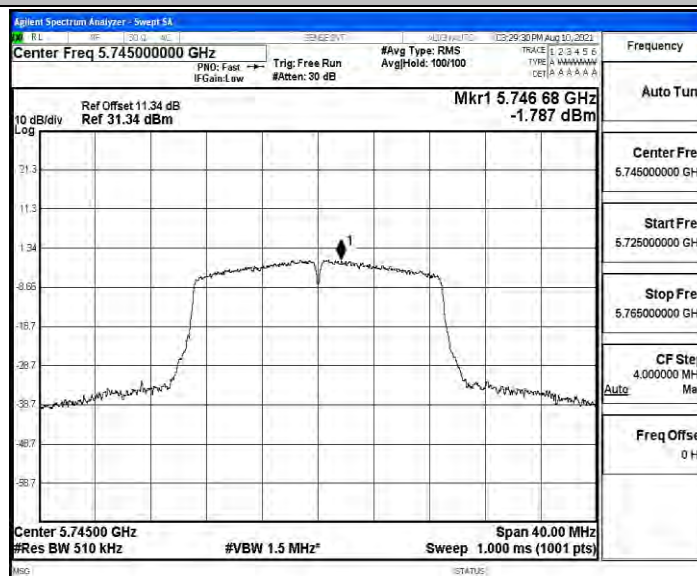
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240

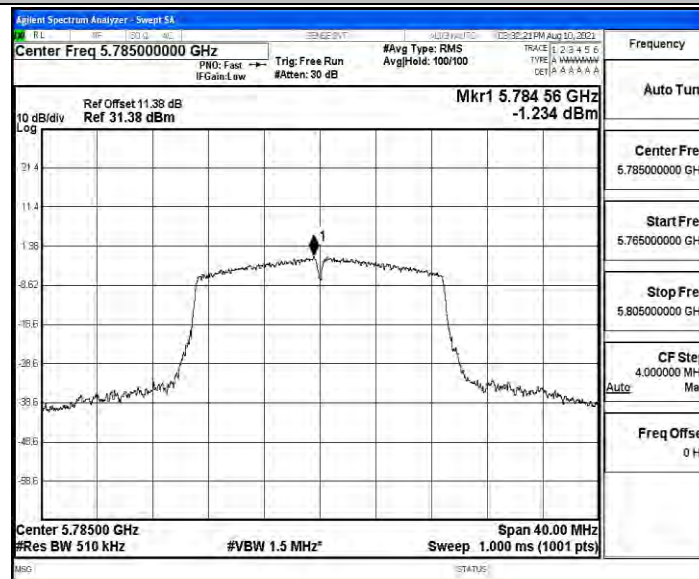


11AC20SISO_Ant1_5745

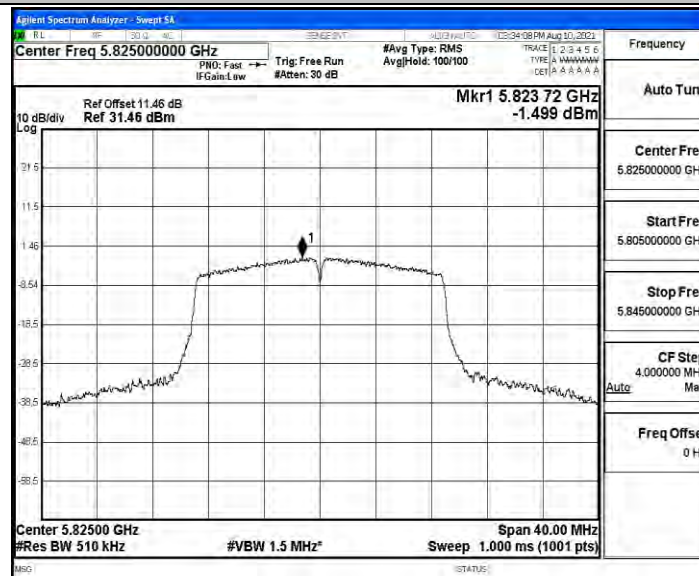




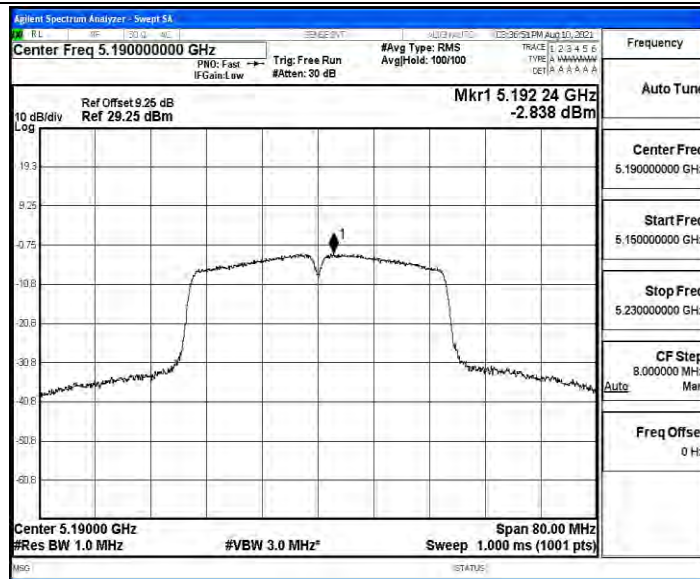
11AC20SISO_Ant1_5785



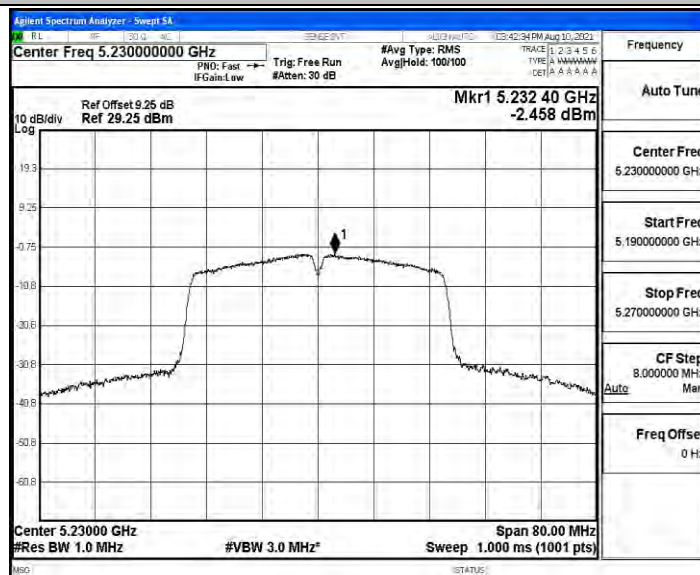
11AC20SISO_Ant1_5825



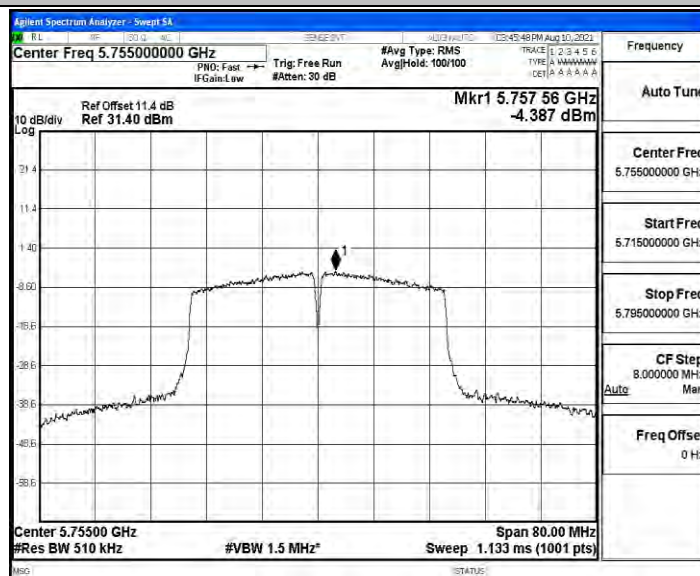
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

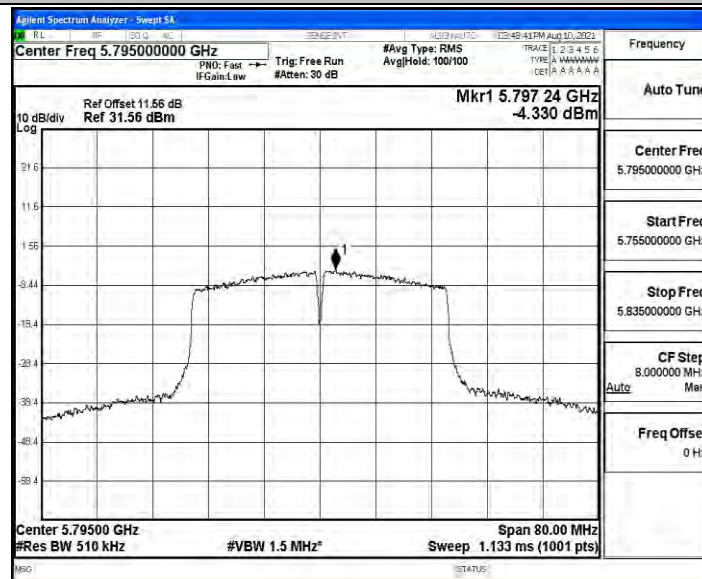


11AC40SISO_Ant1_5755

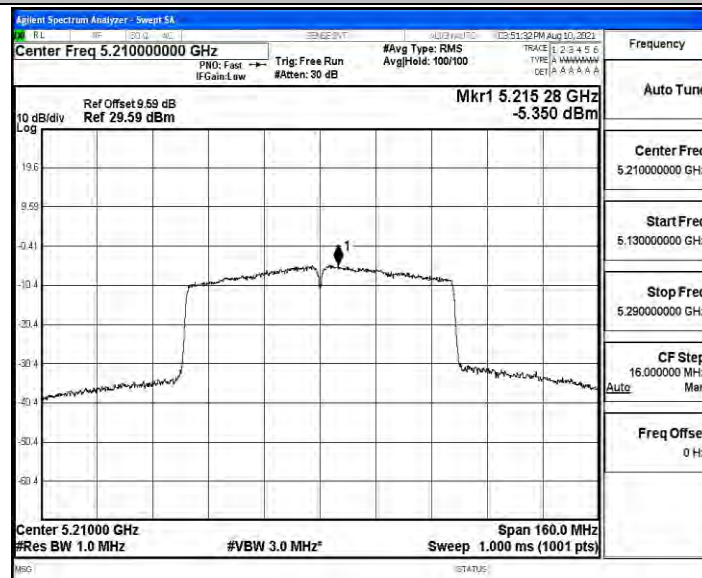




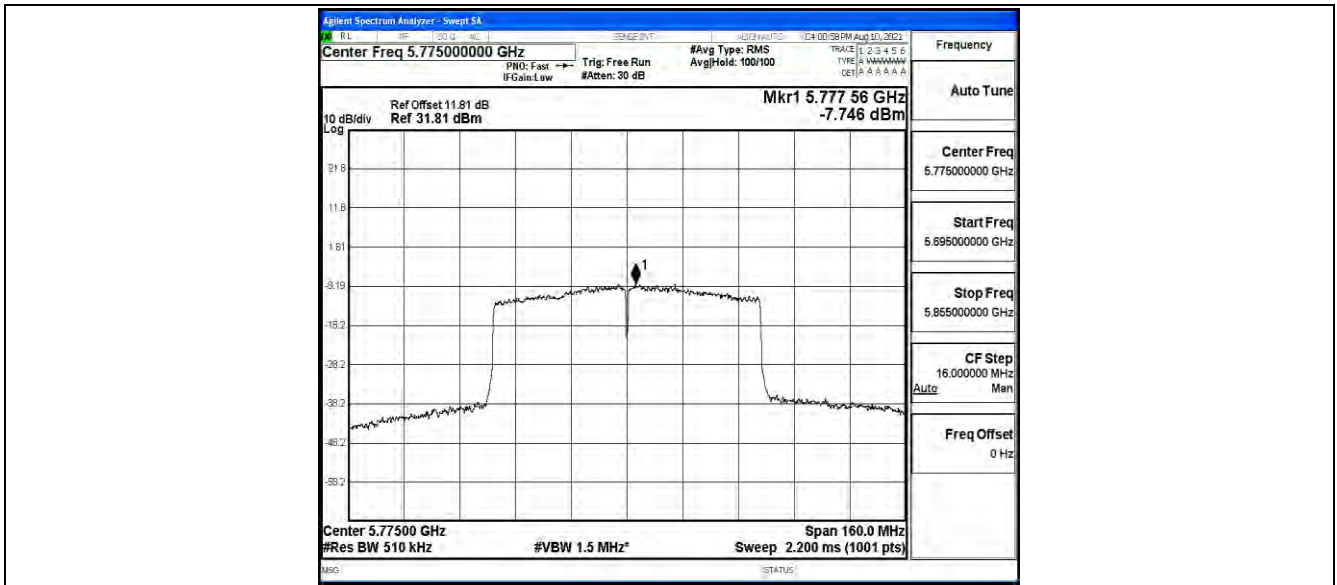
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775





Appendix 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	-49.41	≤-41.20	45.79	≤54	PASS
				AV	5149.600	-43.84	≤-41.20	51.36	≤54	PASS
				AV	5150.000	-43.63	≤-41.20	51.57	≤54	PASS
				Peak	4500.000	-42.13	≤-21.20	53.07	≤74	PASS
				Peak	5146.100	-31.1	≤-21.20	64.10	≤74	PASS
				Peak	5150.000	-29.89	≤-21.20	65.31	≤74	PASS
		High	5240	AV	5350.000	-47.41	≤-41.20	47.79	≤54	PASS
				AV	5363.280	-47.27	≤-41.20	47.93	≤54	PASS
				AV	5460.000	-47.66	≤-41.20	47.54	≤54	PASS
				Peak	5350.000	-41.23	≤-21.20	53.97	≤74	PASS
				Peak	5421.840	-37.65	≤-21.20	57.55	≤74	PASS
				Peak	5460.000	-40.88	≤-21.20	54.32	≤74	PASS
		Low	5745	Peak	5650.000	-41.536	≤-27.00	---	---	PASS
				Peak	5700.000	-39.46	≤10.00	---	---	PASS
				Peak	5720.000	-26.96	≤15.60	---	---	PASS
				Peak	5725.000	-26.26	≤27.00	- --	- --	PASS
		High	5825	Peak	5850.000	-27.877	≤15.60	---	---	PASS
				Peak	5855.000	-31.31	≤27.00	---	---	PASS
				Peak	5875.000	-38.35	≤15.60	---	---	PASS
				Peak	5925.000	-39.87	≤10.00	- --	- --	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-49.42	≤-41.20	45.78	≤54	PASS
				AV	5149.600	-46.73	≤-41.20	48.47	≤54	PASS
				AV	5150.000	-46.71	≤-41.20	48.49	≤54	PASS
				Peak	4500.000	-40.84	≤-21.20	54.36	≤74	PASS
				Peak	5133.500	-35.45	≤-21.20	59.75	≤74	PASS
				Peak	5150.000	-40.93	≤-21.20	54.27	≤74	PASS
		High	5240	AV	5350.000	-47.61	≤-41.20	47.59	≤54	PASS
				AV	5361.120	-47.35	≤-41.20	47.85	≤54	PASS
				AV	5460.000	-47.65	≤-41.20	47.55	≤54	PASS
				Peak	5350.000	-41.44	≤-21.20	53.76	≤74	PASS
				Peak	5370.720	-37.91	≤-21.20	57.29	≤74	PASS
				Peak	5460.000	-41.34	≤-21.20	53.86	≤74	PASS
		Low	5745	Peak	5650.000	-40.46	≤-27.00	---	---	PASS
				Peak	5700.000	-38.09	≤10.00	---	---	PASS
				Peak	5720.000	-28.35	≤15.60	---	---	PASS
				Peak	5725.000	-23.02	≤27.00	- --	- --	PASS



		High	5825	Peak	5850.000	-26.562	≤ 15.60	---	---	PASS
				Peak	5855.000	-32.94	≤ 27.00	---	---	PASS
				Peak	5875.000	-39.08	≤ 15.60	---	---	PASS
				Peak	5925.000	-40.58	≤ 10.00	- --	- --	PASS
11N40SIS O	Ant1	Low	5190	AV	4500.000	-48.87	≤ -41.20	46.33	≤ 54	PASS
				AV	5148.200	-41.72	≤ -41.20	53.48	≤ 54	PASS
				AV	5150.000	-41.67	≤ -41.20	53.53	≤ 54	PASS
				Peak	4500.000	-42.3	≤ -21.20	52.90	≤ 74	PASS
				Peak	5148.900	-30.17	≤ -21.20	65.03	≤ 74	PASS
				Peak	5150.000	-31.58	≤ -21.20	63.62	≤ 74	PASS
		High	5230	AV	5350.000	-47.18	≤ -41.20	48.02	≤ 54	PASS
				AV	5361.200	-46.91	≤ -41.20	48.29	≤ 54	PASS
				AV	5460.000	-47.61	≤ -41.20	47.59	≤ 54	PASS
				Peak	5350.000	-38.59	≤ -21.20	56.61	≤ 74	PASS
				Peak	5445.180	-37.19	≤ -21.20	58.01	≤ 74	PASS
				Peak	5460.000	-39.01	≤ -21.20	56.19	≤ 74	PASS
		Low	5755	Peak	5650.000	-41.323	≤ -27.00	---	---	PASS
				Peak	5700.000	-35.86	≤ 10.00	---	---	PASS
				Peak	5720.000	-27.3	≤ 15.60	---	---	PASS
				Peak	5725.000	-23.18	≤ 27.00	- --	- --	PASS
		High	5795	Peak	5850.000	-29.52	≤ 15.60	---	---	PASS
				Peak	5855.000	-33.98	≤ 27.00	---	---	PASS
				Peak	5875.000	-38.74	≤ 15.60	---	---	PASS
				Peak	5925.000	-40.28	≤ 10.00	- --	- --	PASS
11AC20S ISO	Ant1	Low	5180	AV	4500.000	-49.57	≤ -41.20	45.63	≤ 54	PASS
				AV	5148.900	-44.57	≤ -41.20	50.63	≤ 54	PASS
				AV	5150.000	-44.51	≤ -41.20	50.69	≤ 54	PASS
				Peak	4500.000	-41.52	≤ -21.20	53.68	≤ 74	PASS
				Peak	5148.900	-31.15	≤ -21.20	64.05	≤ 74	PASS
				Peak	5150.000	-34.22	≤ -21.20	60.98	≤ 74	PASS
		High	5240	AV	5350.000	-47.56	≤ -41.20	47.64	≤ 54	PASS
				AV	5357.520	-47.36	≤ -41.20	47.84	≤ 54	PASS
				AV	5460.000	-47.81	≤ -41.20	47.39	≤ 54	PASS
				Peak	5350.000	-39.34	≤ -21.20	55.86	≤ 74	PASS
				Peak	5439.600	-37.34	≤ -21.20	57.86	≤ 74	PASS
				Peak	5460.000	-40.35	≤ -21.20	54.85	≤ 74	PASS
		Low	5745	Peak	5650.000	-39.978	≤ -27.00	---	---	PASS
				Peak	5700.000	-37.92	≤ 10.00	---	---	PASS
				Peak	5720.000	-26.14	≤ 15.60	---	---	PASS
				Peak	5725.000	-23.08	≤ 27.00	- --	- --	PASS
		High	5825	Peak	5850.000	-30.039	≤ 15.60	---	---	PASS
				Peak	5855.000	-31.73	≤ 27.00	---	---	PASS
				Peak	5875.000	-38.21	≤ 15.60	---	---	PASS



				Peak	5925.000	-41.49	≤ 10.00	- --	- --	PASS
11AC40S ISO	Ant1	Low	5190	AV	4500.000	-49.06	≤ -41.20	46.14	≤ 54	PASS
				AV	5149.600	-42.54	≤ -41.20	52.66	≤ 54	PASS
				AV	5150.000	-42.19	≤ -41.20	53.01	≤ 54	PASS
				Peak	4500.000	-42.05	≤ -21.20	53.15	≤ 74	PASS
				Peak	5148.900	-32.13	≤ -21.20	63.07	≤ 74	PASS
				Peak	5150.000	-34.84	≤ -21.20	60.36	≤ 74	PASS
		High	5230	AV	5350.000	-47.32	≤ -41.20	47.88	≤ 54	PASS
				AV	5350.280	-47.05	≤ -41.20	48.15	≤ 54	PASS
				AV	5460.000	-47.63	≤ -41.20	47.57	≤ 54	PASS
				Peak	5350.000	-40.67	≤ -21.20	54.53	≤ 74	PASS
				Peak	5457.920	-37.82	≤ -21.20	57.38	≤ 74	PASS
				Peak	5460.000	-41.03	≤ -21.20	54.17	≤ 74	PASS
		Low	5755	Peak	5650.000	-41.652	≤ -27.00	---	---	PASS
				Peak	5700.000	-35.19	≤ 10.00	---	---	PASS
				Peak	5720.000	-23.81	≤ 15.60	---	---	PASS
				Peak	5725.000	-21.89	≤ 27.00	- --	- --	PASS
		High	5795	Peak	5850.000	-30.904	≤ 15.60	---	---	PASS
				Peak	5855.000	-33.89	≤ 27.00	---	---	PASS
				Peak	5875.000	-37.85	≤ 15.60	---	---	PASS
				Peak	5925.000	-40.04	≤ 10.00	- --	- --	PASS
11AC80S ISO	Ant1	Low	5210	AV	4500.000	-48.83	≤ -41.20	46.37	≤ 54	PASS
				AV	4887.750	-46.42	≤ -41.20	48.78	≤ 54	PASS
				AV	5150.000	-46.56	≤ -41.20	48.64	≤ 54	PASS
				Peak	4500.000	-42.65	≤ -21.20	52.55	≤ 74	PASS
				Peak	4764.000	-36.73	≤ -21.20	58.47	≤ 74	PASS
				Peak	5150.000	-39.2	≤ -21.20	56.00	≤ 74	PASS
		High	5210	AV	5350.000	-43.76	≤ -41.20	51.44	≤ 54	PASS
				AV	5351.080	-43.47	≤ -41.20	51.73	≤ 54	PASS
				AV	5460.000	-47.57	≤ -41.20	47.63	≤ 54	PASS
				Peak	5350.000	-37.06	≤ -21.20	58.14	≤ 74	PASS
				Peak	5356.400	-33.01	≤ -21.20	62.19	≤ 74	PASS
				Peak	5460.000	-39.73	≤ -21.20	55.47	≤ 74	PASS
		Low	5775	Peak	5650.000	-38.87	≤ -27.00	---	---	PASS
				Peak	5700.000	-29.33	≤ 10.00	---	---	PASS
				Peak	5720.000	-24.14	≤ 15.60	---	---	PASS
				Peak	5725.000	-25.46	≤ 27.00	- --	- --	PASS
		High	5775	Peak	5850.000	-24.748	≤ 15.60	---	---	PASS
				Peak	5855.000	-24.34	≤ 27.00	---	---	PASS
				Peak	5875.000	-30.61	≤ 15.60	---	---	PASS
				Peak	5925.000	-36.92	≤ 10.00	- --	- --	PASS



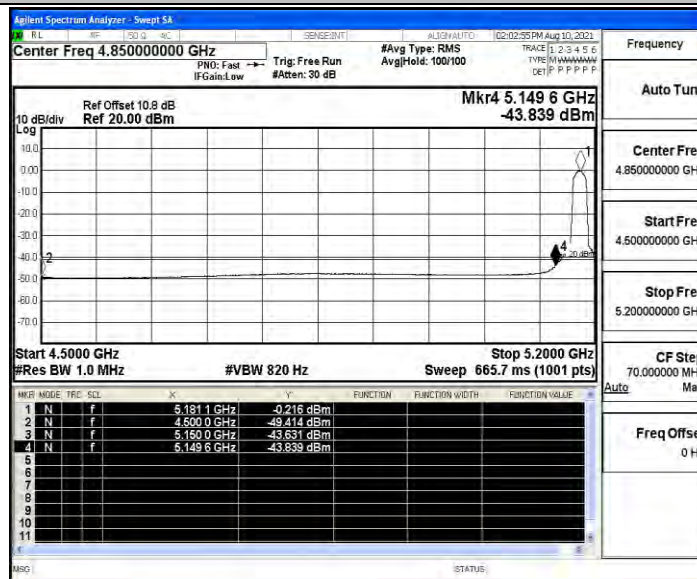
Note:

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.

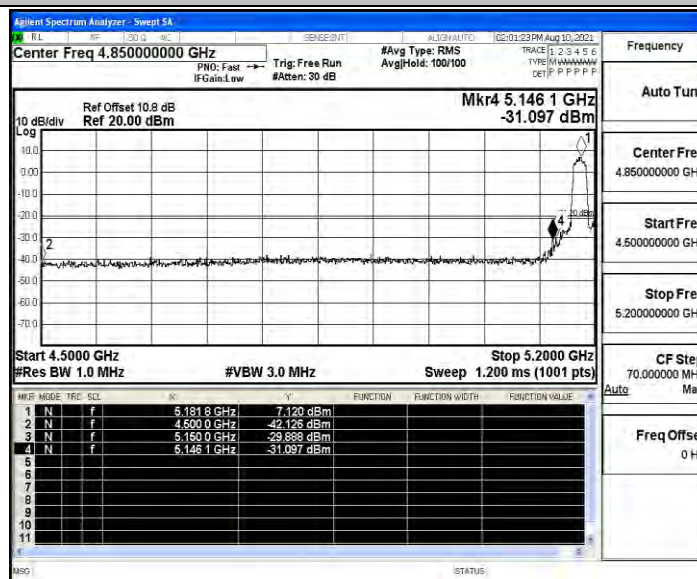


Test Graphs

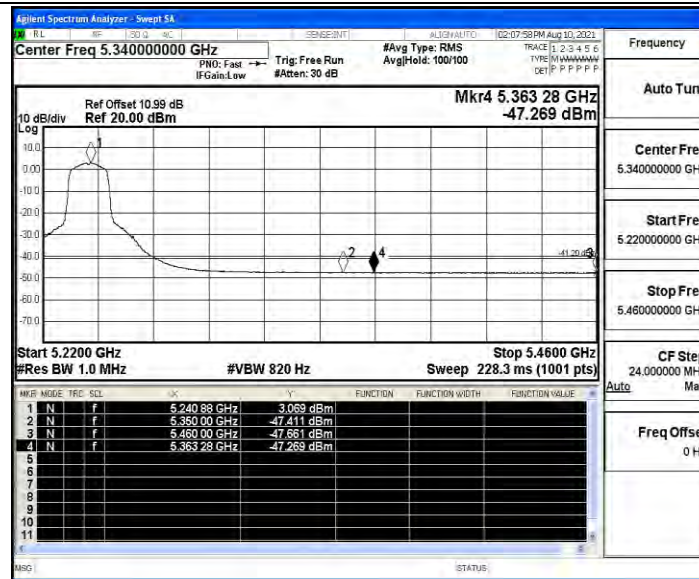
11A_Ant1_Low_5180_AV



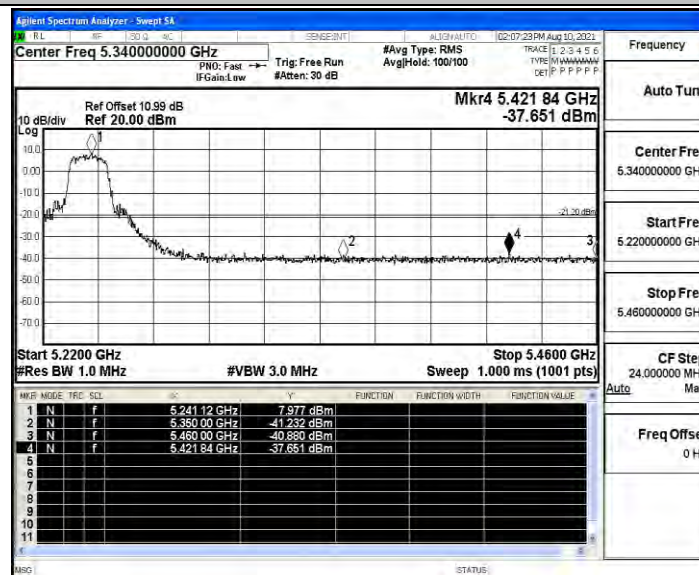
11A_Ant1_Low_5180_Peak



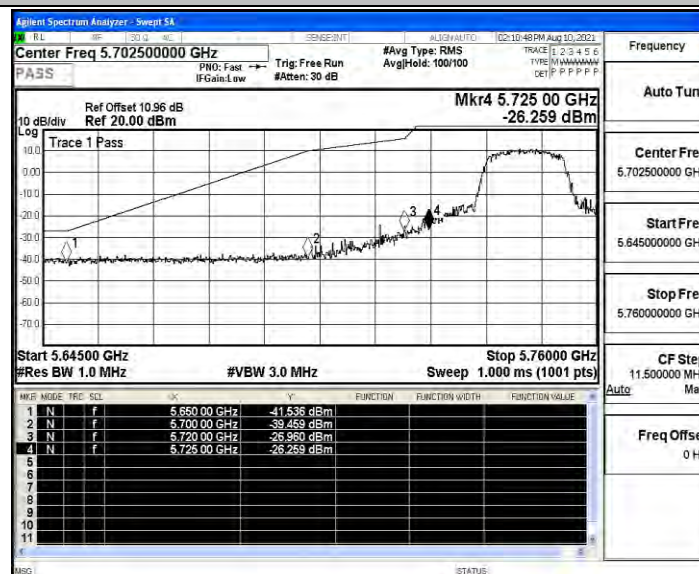
11A_Ant1_High_5240_AV



11A_Ant1_High_5240_Peak

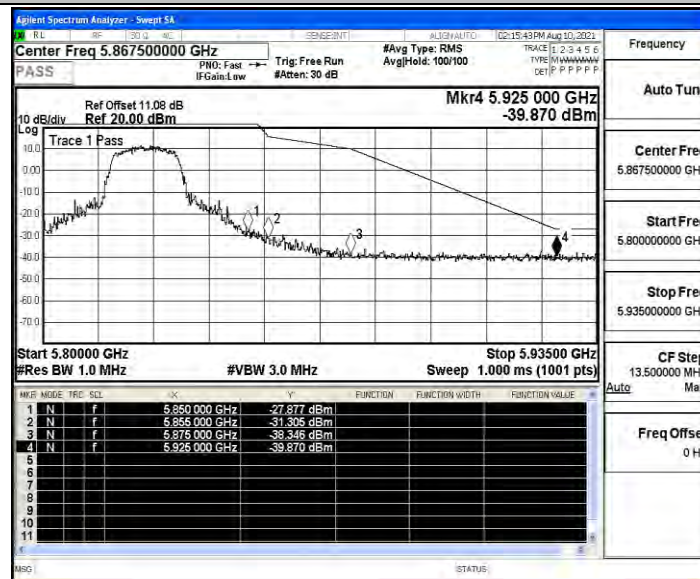


11A_Ant1_Low_5745_Peak

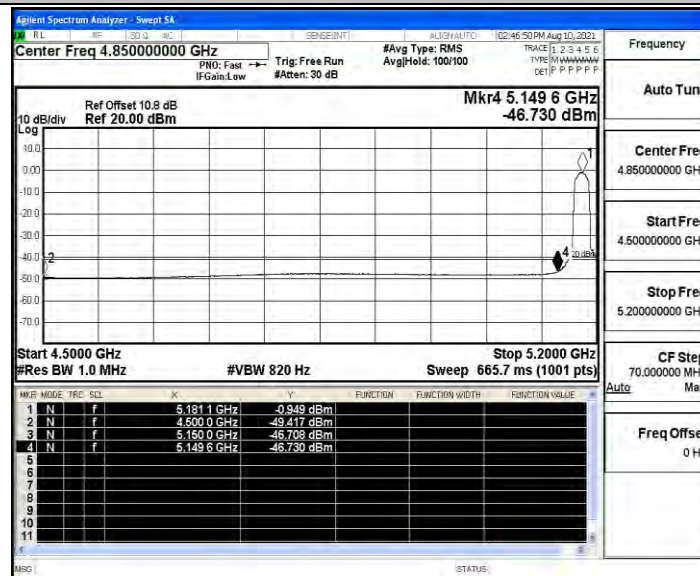




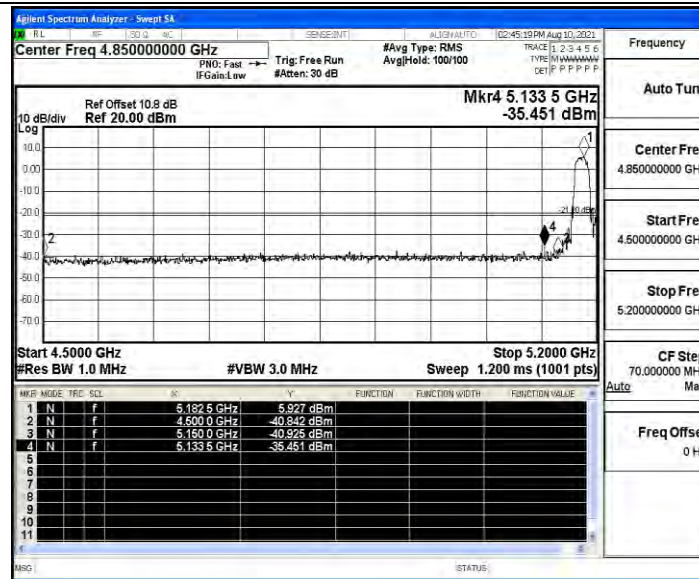
11A_Ant1_High_5825_Peak



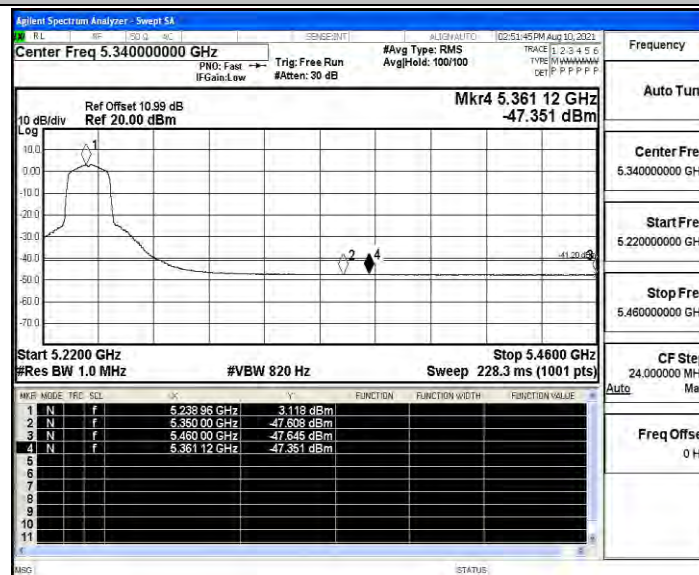
11N20SISO_Ant1_Low_5180_AV



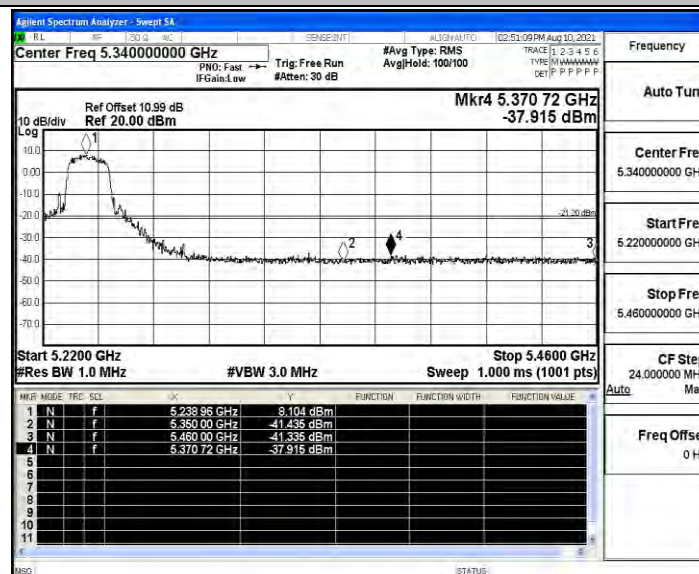
11N20SISO_Ant1_Low_5180_Peak



11N20SISO_Ant1_High_5240_AV

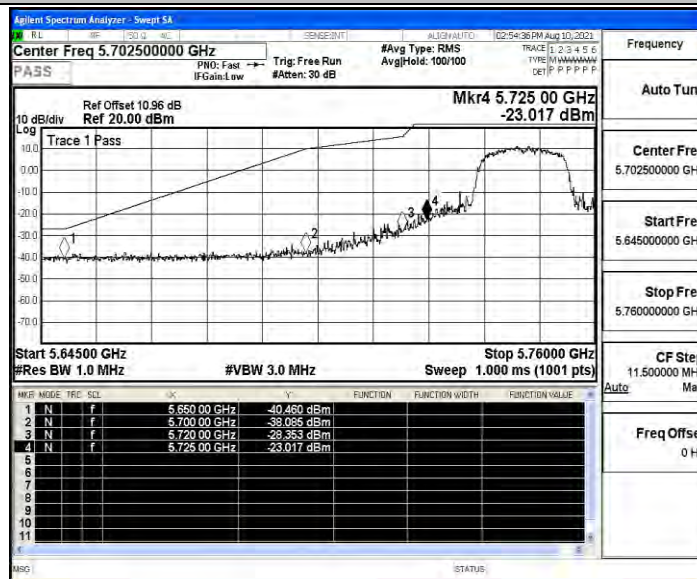


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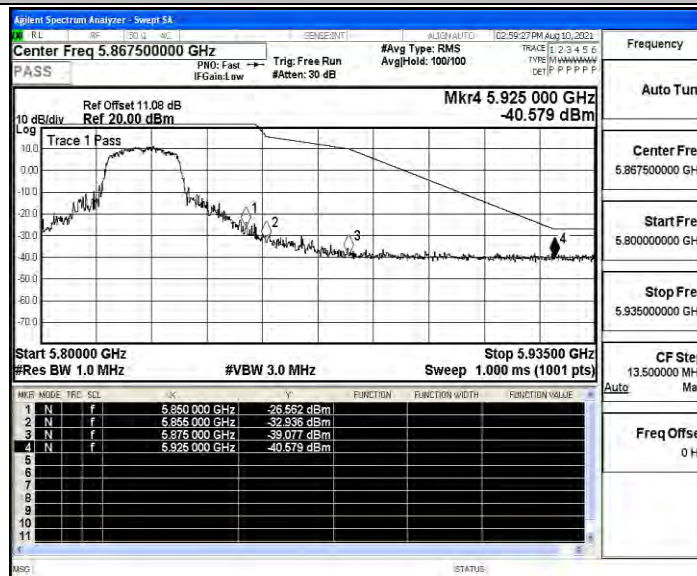




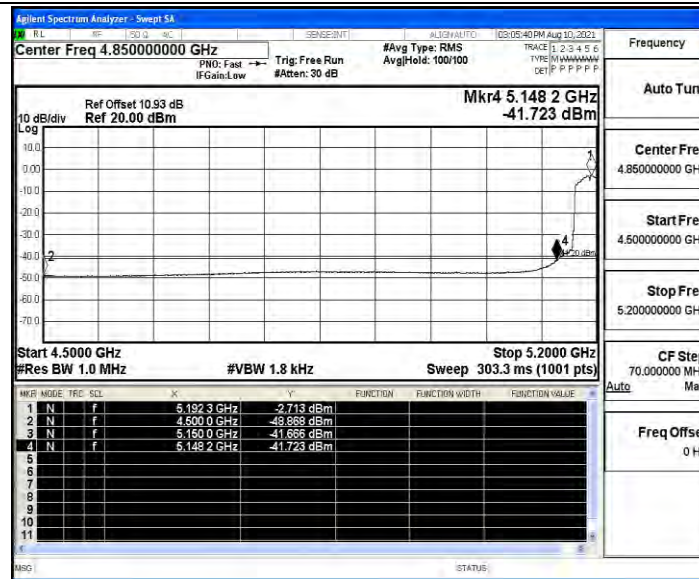
11N20SISO_Ant1_Low_5745_Peak



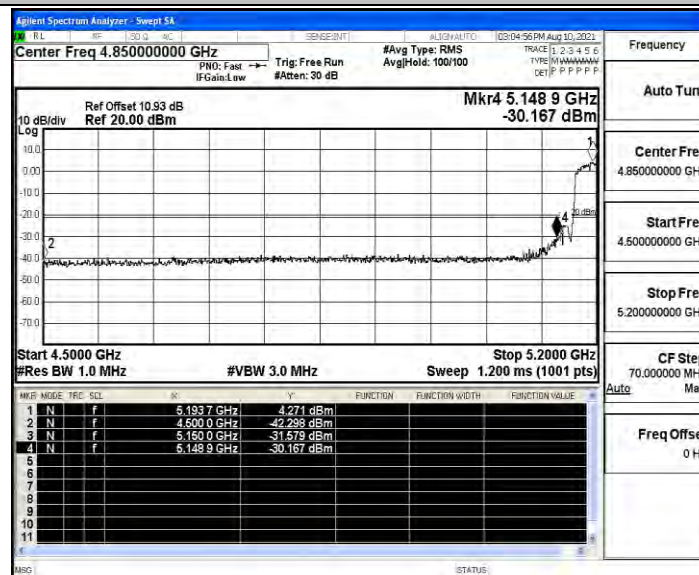
11N20SISO_Ant1_High_5825_Peak



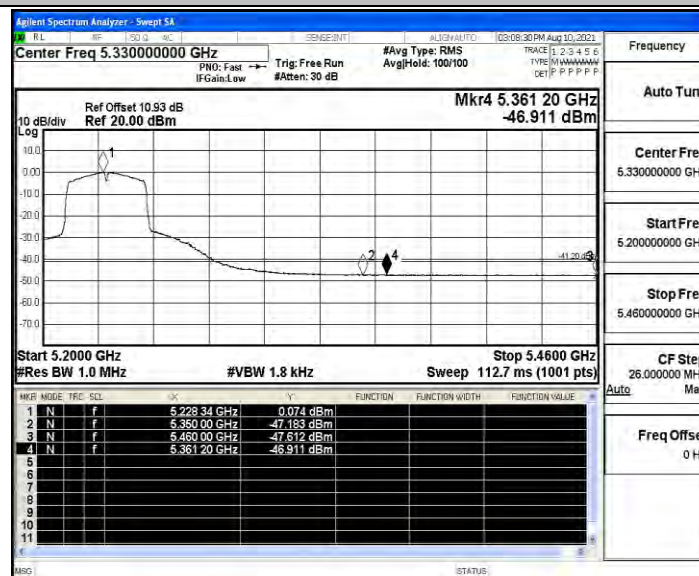
11N40SISO_Ant1_Low_5190_AV



11N40SISO_Ant1_Low_5190_Peak

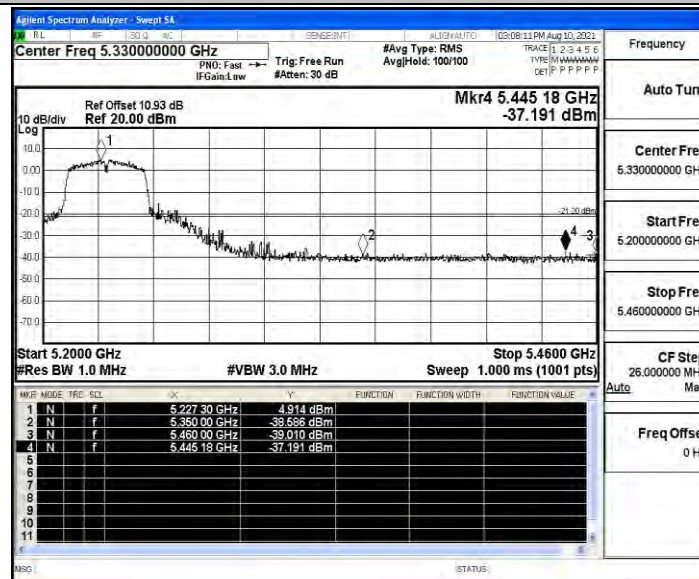


11N40SISO_Ant1_High_5230_AV

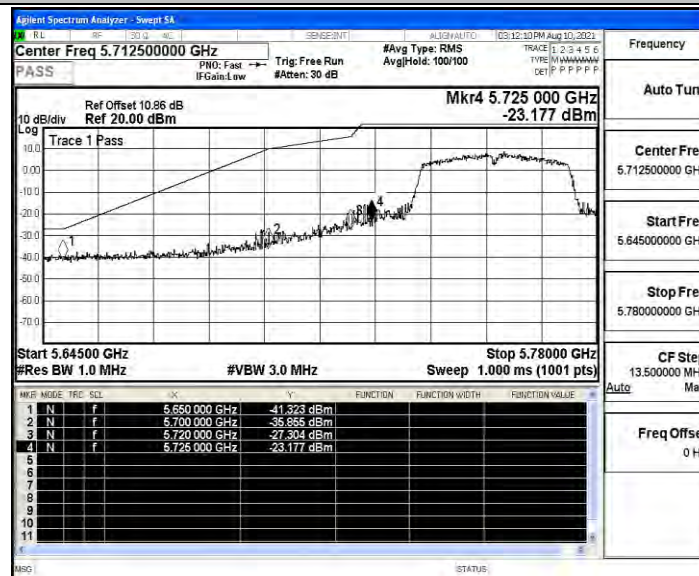




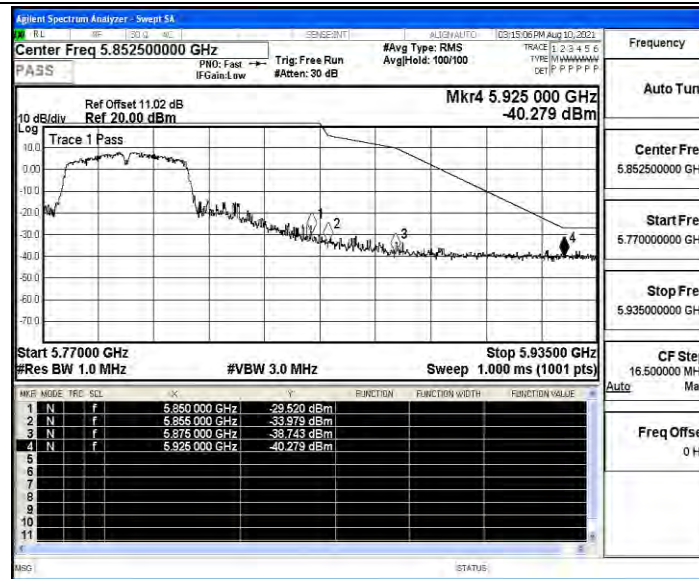
11N40SISO_Ant1_High_5230_Peak



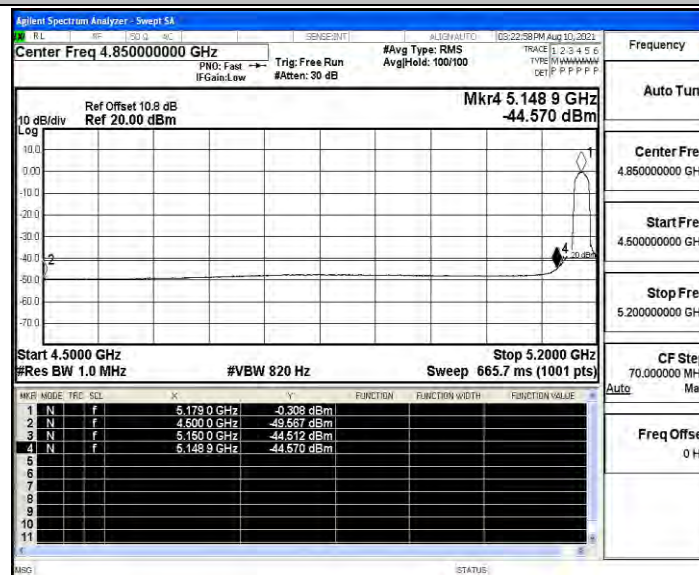
11N40SISO_Ant1_Low_5755_Peak



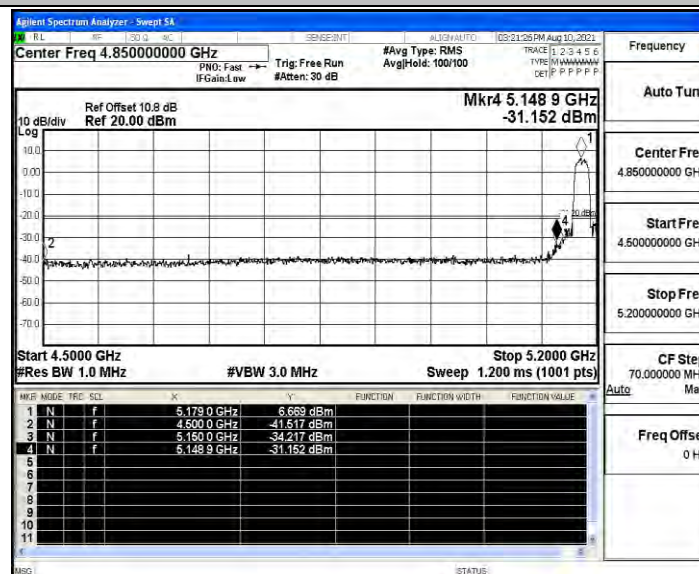
11N40SISO_Ant1_High_5795_Peak



11AC20SISO_Ant1_Low_5180_AV

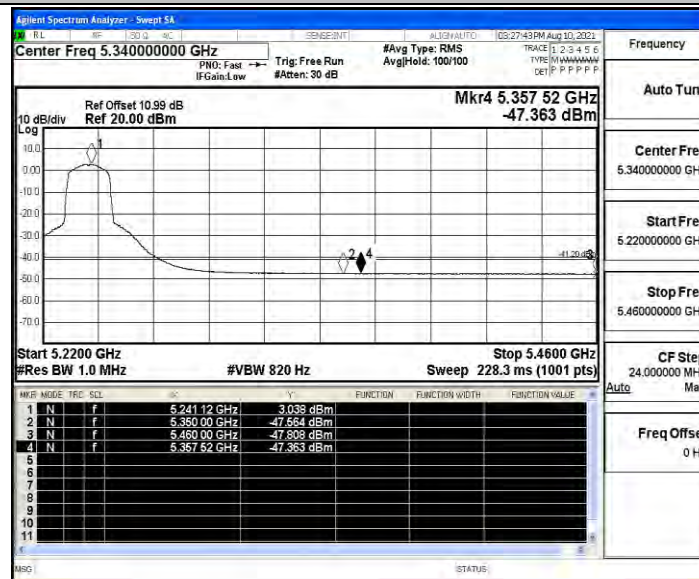


11AC20SISO_Ant1_Low_5180_Peak

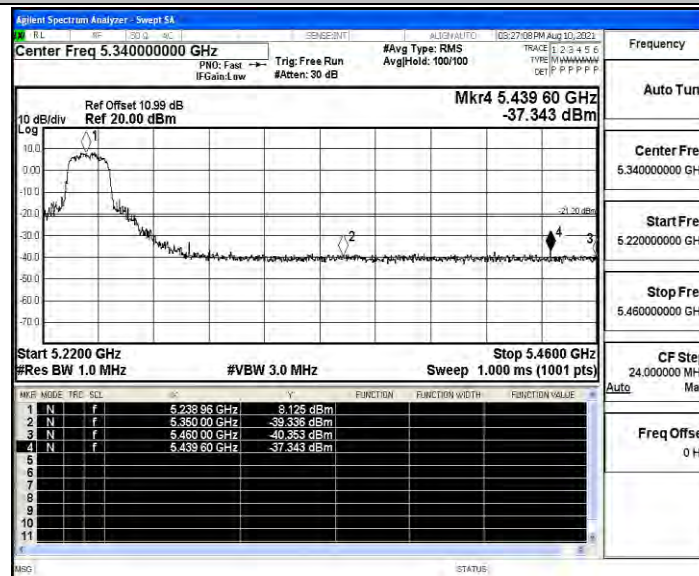




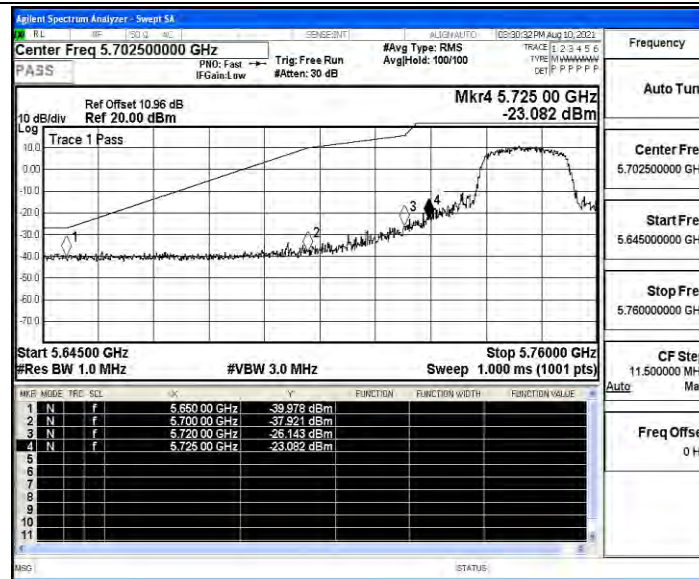
11AC20SISO_Ant1_High_5240_AV



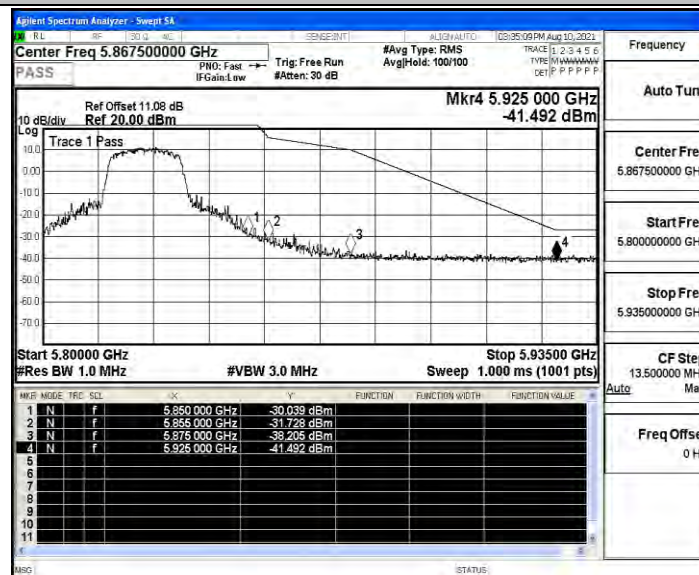
11AC20SISO_Ant1_High_5240_Peak



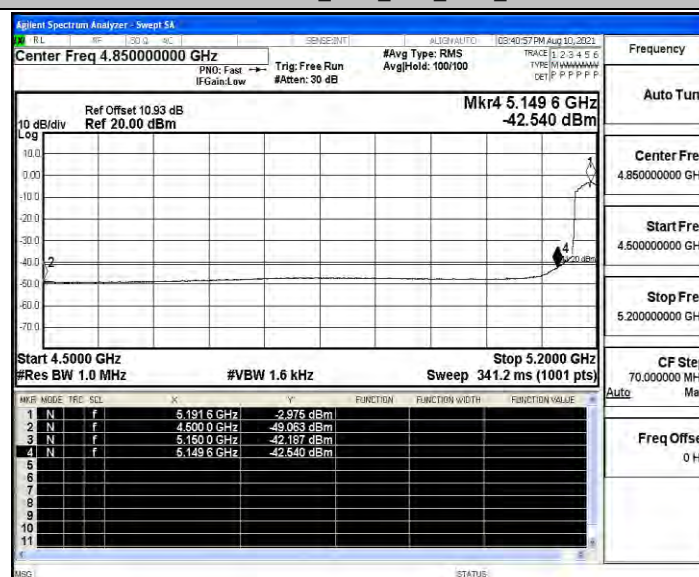
11AC20SISO_Ant1_Low_5745_Peak



11AC20SISO_Ant1_High_5825_Peak

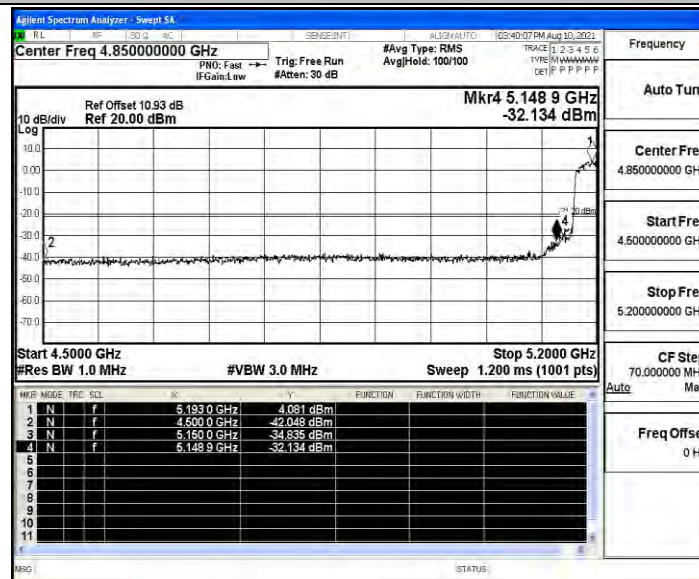


11AC40SISO_Ant1_Low_5190_AV

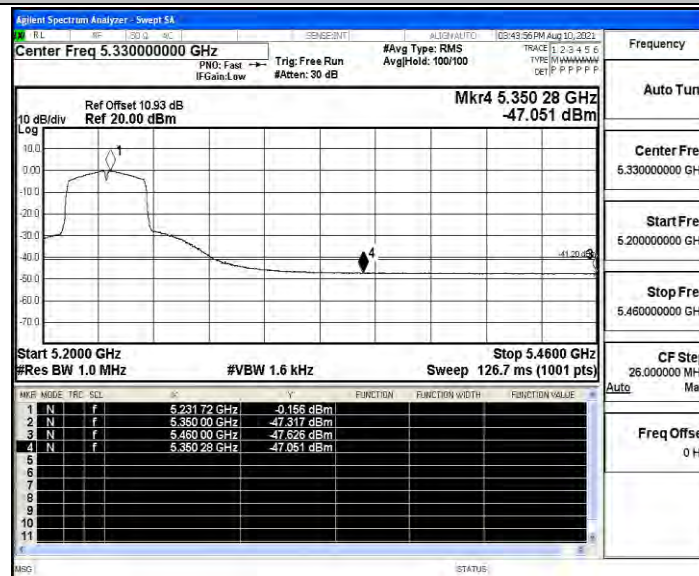




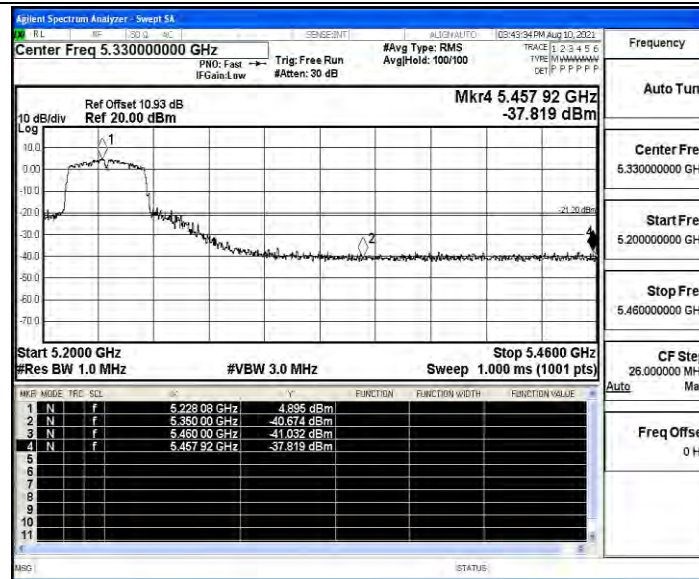
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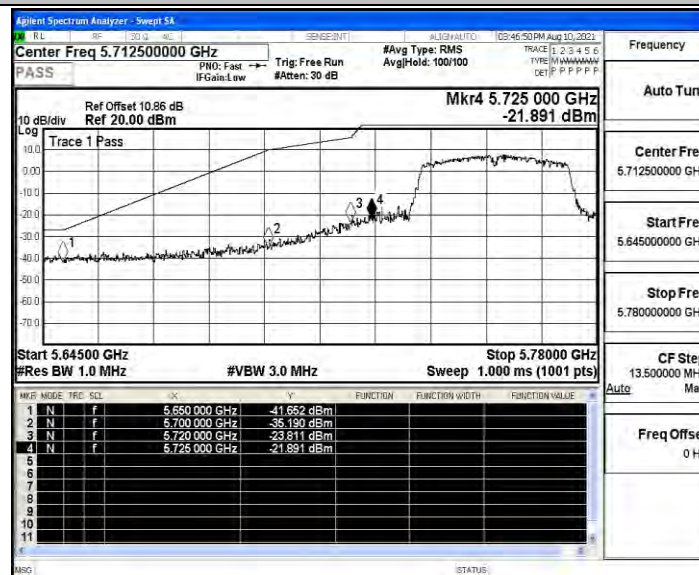
11AC40SISO_Ant1_High_5230_AV



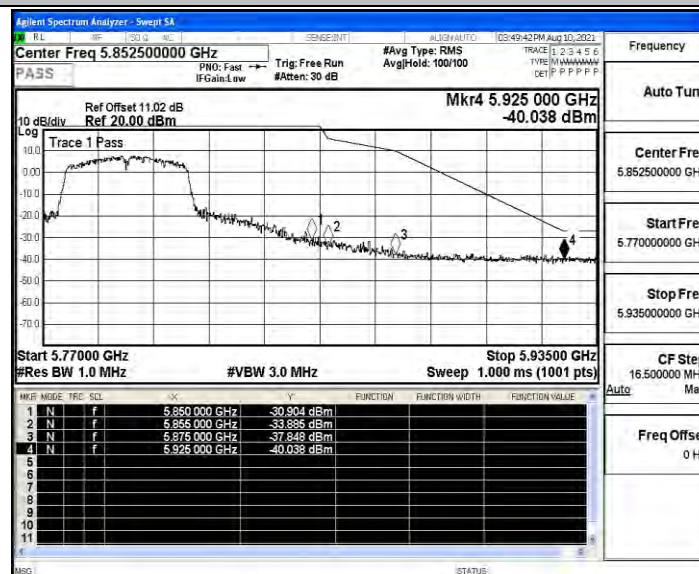
11AC40SISO_Ant1_High_5230_Peak



11AC40SISO_Ant1_Low_5755_Peak

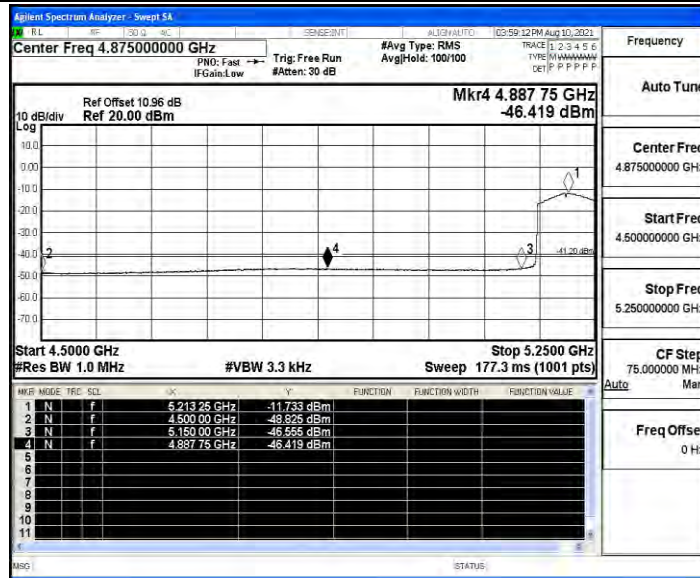


11AC40SISO_Ant1_High_5795_Peak

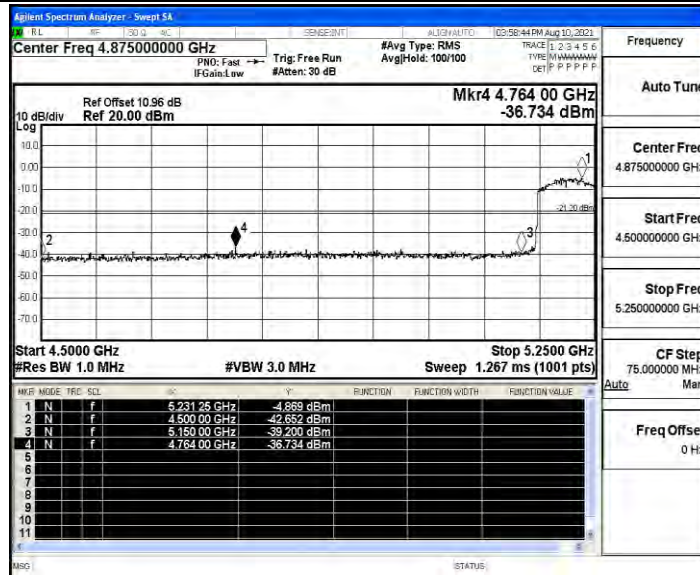




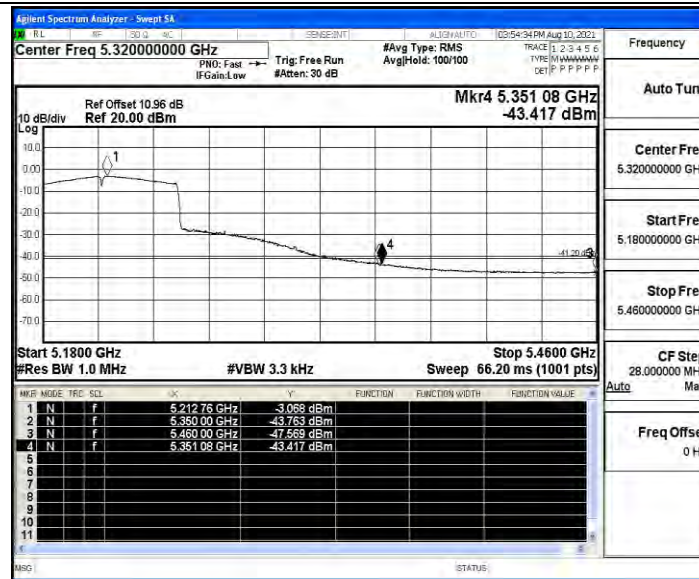
11AC80SISO_Ant1_Low_5210_AV



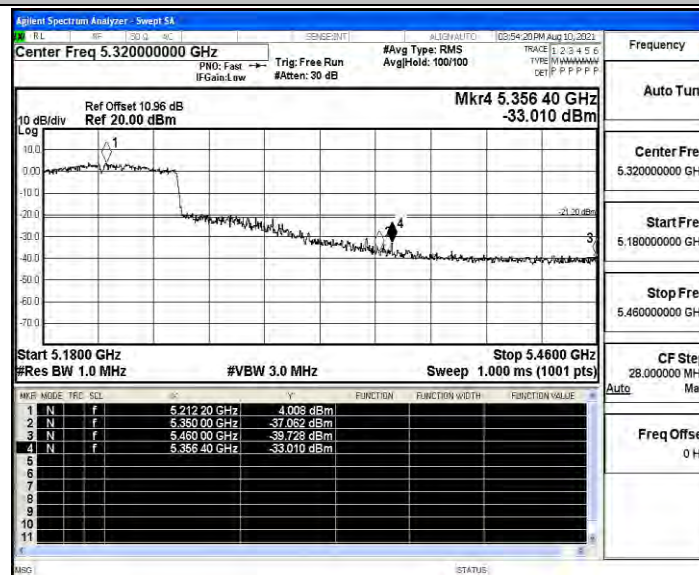
11AC80SISO_Ant1_Low_5210_Peak



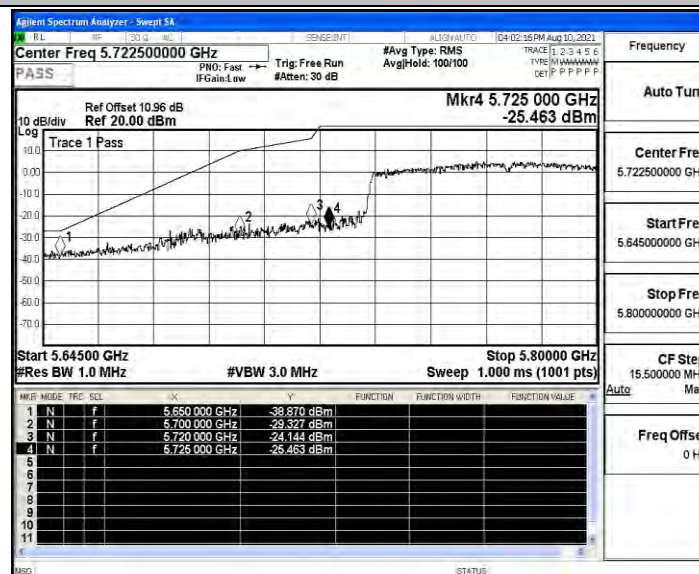
11AC80SISO_Ant1_High_5210_AV



11AC80SISO_Ant1_High_5210_Peak

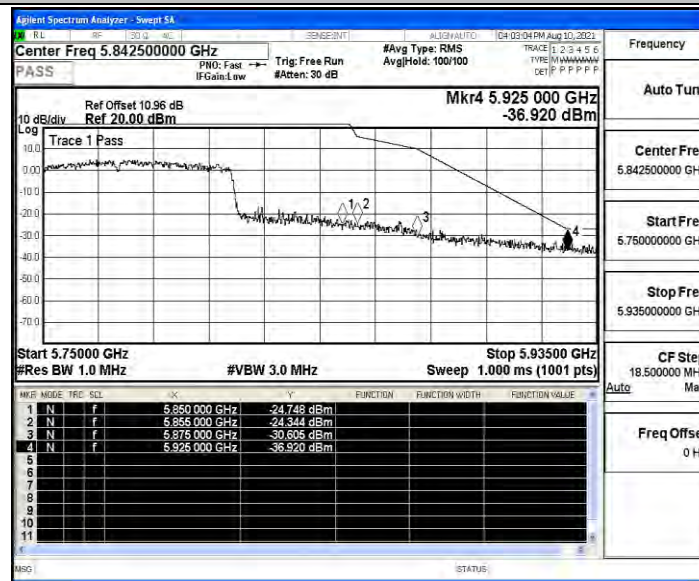


11AC80SISO_Ant1_Low_5775_Peak





11AC80SISO_Ant1_High_5775_Peak





Appendix D.5: Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-18000	-3.474903	20	PASS
			LV	NT	-18000	-3.474903	20	PASS
			HV	NT	-19000	-3.667954	20	PASS
		5200	NV	NT	-21000	-4.038462	20	PASS
			LV	NT	-21000	-4.038462	20	PASS
			HV	NT	-21000	-4.038462	20	PASS
		5240	NV	NT	-22000	-4.198473	20	PASS
			LV	NT	-22000	-4.198473	20	PASS
			HV	NT	-22000	-4.198473	20	PASS
		5745	NV	NT	-24000	-4.177546	20	PASS
			LV	NT	-24000	-4.177546	20	PASS
			HV	NT	-24000	-4.177546	20	PASS
		5785	NV	NT	-25000	-4.321521	20	PASS
			LV	NT	-25000	-4.321521	20	PASS
			HV	NT	-25000	-4.321521	20	PASS
		5825	NV	NT	-25000	-4.291845	20	PASS
			LV	NT	-25000	-4.291845	20	PASS
			HV	NT	-25000	-4.291845	20	PASS
11N20SISO	Ant1	5180	NV	NT	-22000	-4.247104	20	PASS
			LV	NT	-22000	-4.247104	20	PASS
			HV	NT	-22000	-4.247104	20	PASS
		5200	NV	NT	-23000	-4.423077	20	PASS
			LV	NT	-23000	-4.423077	20	PASS
			HV	NT	-23000	-4.423077	20	PASS
		5240	NV	NT	-23000	-4.389313	20	PASS
			LV	NT	-23000	-4.389313	20	PASS
			HV	NT	-23000	-4.389313	20	PASS
		5745	NV	NT	-25000	-4.35161	20	PASS
			LV	NT	-25000	-4.35161	20	PASS
			HV	NT	-25000	-4.35161	20	PASS
		5785	NV	NT	-20000	-3.457217	20	PASS
			LV	NT	-21000	-3.630078	20	PASS
			HV	NT	-22000	-3.802939	20	PASS
		5825	NV	NT	-28000	-4.806867	20	PASS
			LV	NT	-28000	-4.806867	20	PASS
			HV	NT	-28000	-4.806867	20	PASS



11N40SISO	Ant1	5190	NV	NT	-25000	-4.816956	20	PASS
			LV	NT	-25000	-4.816956	20	PASS
			HV	NT	-25000	-4.816956	20	PASS
		5230	NV	NT	-27000	-5.162524	20	PASS
			LV	NT	-27000	-5.162524	20	PASS
			HV	NT	-27000	-5.162524	20	PASS
		5755	NV	NT	-29000	-5.039096	20	PASS
			LV	NT	-29000	-5.039096	20	PASS
			HV	NT	-29000	-5.039096	20	PASS
		5795	NV	NT	-30000	-5.176877	20	PASS
			LV	NT	-31000	-5.349439	20	PASS
			HV	NT	-31000	-5.349439	20	PASS
11AC20SISO	Ant1	5180	NV	NT	-27000	-5.212355	20	PASS
			LV	NT	-27000	-5.212355	20	PASS
			HV	NT	-28000	-5.405405	20	PASS
		5200	NV	NT	-27000	-5.192308	20	PASS
			LV	NT	-28000	-5.384615	20	PASS
			HV	NT	-28000	-5.384615	20	PASS
		5240	NV	NT	-28000	-5.343511	20	PASS
			LV	NT	-28000	-5.343511	20	PASS
			HV	NT	-29000	-5.534351	20	PASS
		5745	NV	NT	-31000	-5.395997	20	PASS
			LV	NT	-31000	-5.395997	20	PASS
			HV	NT	-31000	-5.395997	20	PASS
		5785	NV	NT	-32000	-5.531547	20	PASS
			LV	NT	-32000	-5.531547	20	PASS
			HV	NT	-32000	-5.531547	20	PASS
		5825	NV	NT	-32000	-5.493562	20	PASS
			LV	NT	-32000	-5.493562	20	PASS
			HV	NT	-32000	-5.493562	20	PASS
11AC40SISO	Ant1	5190	NV	NT	-28000	-5.39499	20	PASS
			LV	NT	-28000	-5.39499	20	PASS
			HV	NT	-28000	-5.39499	20	PASS
		5230	NV	NT	-29000	-5.544933	20	PASS
			LV	NT	-29000	-5.544933	20	PASS
			HV	NT	-29000	-5.544933	20	PASS
		5755	NV	NT	-31000	-5.38662	20	PASS
			LV	NT	-31000	-5.38662	20	PASS
			HV	NT	-32000	-5.560382	20	PASS
		5795	NV	NT	-32000	-5.522002	20	PASS
			LV	NT	-32000	-5.522002	20	PASS
			HV	NT	-32000	-5.522002	20	PASS
11AC80SIS	Ant1	5210	NV	NT	-27000	-5.182342	20	PASS



O			LV	NT	-27000	-5.182342	20	PASS
			HV	NT	-28000	-5.37428	20	PASS
		5775	NV	NT	-31000	-5.367965	20	PASS
			LV	NT	-31000	-5.367965	20	PASS
			HV	NT	-32000	-5.541126	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	-19000	-3.667954	20	PASS
			NV	-20	-19000	-3.667954	20	PASS
			NV	-10	-20000	-3.861004	20	PASS
			NV	0	-20000	-3.861004	20	PASS
			NV	10	-20000	-3.861004	20	PASS
			NV	20	-20000	-3.861004	20	PASS
			NV	30	-20000	-3.861004	20	PASS
			NV	40	-21000	-4.054054	20	PASS
			NV	50	-21000	-4.054054	20	PASS
		5200	NV	-30	-21000	-4.038462	20	PASS
			NV	-20	-21000	-4.038462	20	PASS
			NV	-10	-21000	-4.038462	20	PASS
			NV	0	-21000	-4.038462	20	PASS
			NV	10	-21000	-4.038462	20	PASS
			NV	20	-22000	-4.230769	20	PASS
			NV	30	-22000	-4.230769	20	PASS
			NV	40	-22000	-4.230769	20	PASS
			NV	50	-22000	-4.230769	20	PASS
		5240	NV	-30	-22000	-4.198473	20	PASS
			NV	-20	-22000	-4.198473	20	PASS
			NV	-10	-22000	-4.198473	20	PASS
			NV	0	-22000	-4.198473	20	PASS
			NV	10	-22000	-4.198473	20	PASS
			NV	20	-22000	-4.198473	20	PASS
			NV	30	-22000	-4.198473	20	PASS
			NV	40	-22000	-4.198473	20	PASS
			NV	50	-22000	-4.198473	20	PASS
		5745	NV	-30	-24000	-4.177546	20	PASS
			NV	-20	-24000	-4.177546	20	PASS
			NV	-10	-24000	-4.177546	20	PASS
			NV	0	-24000	-4.177546	20	PASS
			NV	10	-24000	-4.177546	20	PASS
			NV	20	-24000	-4.177546	20	PASS
			NV	30	-25000	-4.35161	20	PASS



			NV	40	-25000	-4.35161	20	PASS
			NV	50	-25000	-4.35161	20	PASS
		5785	NV	-30	-25000	-4.321521	20	PASS
			NV	-20	-25000	-4.321521	20	PASS
			NV	-10	-25000	-4.321521	20	PASS
			NV	0	-25000	-4.321521	20	PASS
			NV	10	-25000	-4.321521	20	PASS
			NV	20	-25000	-4.321521	20	PASS
			NV	30	-25000	-4.321521	20	PASS
			NV	40	-25000	-4.321521	20	PASS
			NV	50	-25000	-4.321521	20	PASS
		5825	NV	-30	-25000	-4.291845	20	PASS
			NV	-20	-26000	-4.463519	20	PASS
			NV	-10	-26000	-4.463519	20	PASS
			NV	0	-26000	-4.463519	20	PASS
			NV	10	-26000	-4.463519	20	PASS
			NV	20	-26000	-4.463519	20	PASS
			NV	30	-26000	-4.463519	20	PASS
			NV	40	-26000	-4.463519	20	PASS
			NV	50	-26000	-4.463519	20	PASS
11N20SISO	Ant1	5180	NV	-30	-22000	-4.247104	20	PASS
			NV	-20	-22000	-4.247104	20	PASS
			NV	-10	-22000	-4.247104	20	PASS
			NV	0	-22000	-4.247104	20	PASS
			NV	10	-23000	-4.440154	20	PASS
			NV	20	-22000	-4.247104	20	PASS
			NV	30	-23000	-4.440154	20	PASS
			NV	40	-23000	-4.440154	20	PASS
			NV	50	-23000	-4.440154	20	PASS
		5200	NV	-30	-23000	-4.423077	20	PASS
			NV	-20	-23000	-4.423077	20	PASS
			NV	-10	-23000	-4.423077	20	PASS
			NV	0	-23000	-4.423077	20	PASS
			NV	10	-23000	-4.423077	20	PASS
			NV	20	-23000	-4.423077	20	PASS
			NV	30	-23000	-4.423077	20	PASS
			NV	40	-23000	-4.423077	20	PASS
			NV	50	-23000	-4.423077	20	PASS
		5240	NV	-30	-23000	-4.389313	20	PASS
			NV	-20	-23000	-4.389313	20	PASS
			NV	-10	-23000	-4.389313	20	PASS
			NV	0	-23000	-4.389313	20	PASS
			NV	10	-23000	-4.389313	20	PASS



			NV	20	-23000	-4.389313	20	PASS
			NV	30	-23000	-4.389313	20	PASS
			NV	40	-23000	-4.389313	20	PASS
			NV	50	-23000	-4.389313	20	PASS
		5745	NV	-30	-25000	-4.35161	20	PASS
			NV	-20	-25000	-4.35161	20	PASS
			NV	-10	-25000	-4.35161	20	PASS
			NV	0	-25000	-4.35161	20	PASS
			NV	10	-25000	-4.35161	20	PASS
			NV	20	-26000	-4.525674	20	PASS
			NV	30	-25000	-4.35161	20	PASS
			NV	40	-26000	-4.525674	20	PASS
			NV	50	-25000	-4.35161	20	PASS
		5785	NV	-30	-22000	-3.802939	20	PASS
			NV	-20	-23000	-3.975799	20	PASS
			NV	-10	-24000	-4.14866	20	PASS
			NV	0	-24000	-4.14866	20	PASS
			NV	10	-24000	-4.14866	20	PASS
			NV	20	-25000	-4.321521	20	PASS
			NV	30	-25000	-4.321521	20	PASS
			NV	40	-25000	-4.321521	20	PASS
		5825	NV	50	-26000	-4.494382	20	PASS
			NV	-30	-28000	-4.806867	20	PASS
			NV	-20	-28000	-4.806867	20	PASS
			NV	-10	-28000	-4.806867	20	PASS
			NV	0	-28000	-4.806867	20	PASS
			NV	10	-28000	-4.806867	20	PASS
			NV	20	-28000	-4.806867	20	PASS
			NV	30	-29000	-4.978541	20	PASS
11N40SISO	Ant1	5190	NV	40	-29000	-4.978541	20	PASS
			NV	50	-29000	-4.978541	20	PASS
			NV	-30	-26000	-5.009634	20	PASS
			NV	-20	-26000	-5.009634	20	PASS
			NV	-10	-26000	-5.009634	20	PASS
			NV	0	-26000	-5.009634	20	PASS
			NV	10	-26000	-5.009634	20	PASS
			NV	20	-26000	-5.009634	20	PASS
		5230	NV	30	-26000	-5.009634	20	PASS
			NV	40	-26000	-5.009634	20	PASS
			NV	50	-26000	-5.009634	20	PASS
			NV	-30	-27000	-5.162524	20	PASS
			NV	-20	-26000	-4.971319	20	PASS
			NV	-10	-26000	-4.971319	20	PASS
			NV					



			NV	0	-26000	-4.971319	20	PASS
			NV	10	-27000	-5.162524	20	PASS
			NV	20	-26000	-4.971319	20	PASS
			NV	30	-27000	-5.162524	20	PASS
			NV	40	-27000	-5.162524	20	PASS
			NV	50	-27000	-5.162524	20	PASS
		5755	NV	-30	-30000	-5.212858	20	PASS
			NV	-20	-30000	-5.212858	20	PASS
			NV	-10	-30000	-5.212858	20	PASS
			NV	0	-30000	-5.212858	20	PASS
			NV	10	-30000	-5.212858	20	PASS
			NV	20	-30000	-5.212858	20	PASS
			NV	30	-30000	-5.212858	20	PASS
			NV	40	-30000	-5.212858	20	PASS
			NV	50	-30000	-5.212858	20	PASS
		5795	NV	-30	-31000	-5.349439	20	PASS
			NV	-20	-31000	-5.349439	20	PASS
			NV	-10	-31000	-5.349439	20	PASS
			NV	0	-31000	-5.349439	20	PASS
			NV	10	-31000	-5.349439	20	PASS
			NV	20	-31000	-5.349439	20	PASS
			NV	30	-31000	-5.349439	20	PASS
			NV	40	-31000	-5.349439	20	PASS
			NV	50	-31000	-5.349439	20	PASS
11AC20SIS O	Ant1	5180	NV	-30	-28000	-5.405405	20	PASS
			NV	-20	-28000	-5.405405	20	PASS
			NV	-10	-28000	-5.405405	20	PASS
			NV	0	-28000	-5.405405	20	PASS
			NV	10	-28000	-5.405405	20	PASS
			NV	20	-28000	-5.405405	20	PASS
			NV	30	-28000	-5.405405	20	PASS
			NV	40	-28000	-5.405405	20	PASS
			NV	50	-28000	-5.405405	20	PASS
		5200	NV	-30	-28000	-5.384615	20	PASS
			NV	-20	-28000	-5.384615	20	PASS
			NV	-10	-28000	-5.384615	20	PASS
			NV	0	-28000	-5.384615	20	PASS
			NV	10	-28000	-5.384615	20	PASS
			NV	20	-28000	-5.384615	20	PASS
			NV	30	-28000	-5.384615	20	PASS
			NV	40	-28000	-5.384615	20	PASS
			NV	50	-28000	-5.384615	20	PASS
		5240	NV	-30	-28000	-5.343511	20	PASS



			NV	-20	-28000	-5.343511	20	PASS
			NV	-10	-28000	-5.343511	20	PASS
			NV	0	-28000	-5.343511	20	PASS
			NV	10	-28000	-5.343511	20	PASS
			NV	20	-28000	-5.343511	20	PASS
			NV	30	-28000	-5.343511	20	PASS
			NV	40	-28000	-5.343511	20	PASS
			NV	50	-28000	-5.343511	20	PASS
		5745	NV	-30	-31000	-5.395997	20	PASS
			NV	-20	-32000	-5.570061	20	PASS
			NV	-10	-31000	-5.395997	20	PASS
			NV	0	-31000	-5.395997	20	PASS
			NV	10	-32000	-5.570061	20	PASS
			NV	20	-32000	-5.570061	20	PASS
			NV	30	-31000	-5.395997	20	PASS
			NV	40	-31000	-5.395997	20	PASS
			NV	50	-32000	-5.570061	20	PASS
		5785	NV	-30	-32000	-5.531547	20	PASS
			NV	-20	-32000	-5.531547	20	PASS
			NV	-10	-32000	-5.531547	20	PASS
			NV	0	-32000	-5.531547	20	PASS
			NV	10	-32000	-5.531547	20	PASS
			NV	20	-32000	-5.531547	20	PASS
			NV	30	-32000	-5.531547	20	PASS
			NV	40	-32000	-5.531547	20	PASS
			NV	50	-32000	-5.531547	20	PASS
		5825	NV	-30	-32000	-5.493562	20	PASS
			NV	-20	-32000	-5.493562	20	PASS
			NV	-10	-32000	-5.493562	20	PASS
			NV	0	-32000	-5.493562	20	PASS
			NV	10	-32000	-5.493562	20	PASS
			NV	20	-32000	-5.493562	20	PASS
			NV	30	-32000	-5.493562	20	PASS
			NV	40	-32000	-5.493562	20	PASS
			NV	50	-32000	-5.493562	20	PASS
11AC40SIS O	Ant1	5190	NV	-30	-29000	-5.587669	20	PASS
			NV	-20	-28000	-5.39499	20	PASS
			NV	-10	-28000	-5.39499	20	PASS
			NV	0	-28000	-5.39499	20	PASS
			NV	10	-29000	-5.587669	20	PASS
			NV	20	-28000	-5.39499	20	PASS
			NV	30	-29000	-5.587669	20	PASS
			NV	40	-29000	-5.587669	20	PASS



			NV	50	-29000	-5.587669	20	PASS
		5230	NV	-30	-29000	-5.544933	20	PASS
			NV	-20	-29000	-5.544933	20	PASS
			NV	-10	-29000	-5.544933	20	PASS
			NV	0	-29000	-5.544933	20	PASS
			NV	10	-29000	-5.544933	20	PASS
			NV	20	-29000	-5.544933	20	PASS
			NV	30	-29000	-5.544933	20	PASS
			NV	40	-29000	-5.544933	20	PASS
			NV	50	-29000	-5.544933	20	PASS
		5755	NV	-30	-32000	-5.560382	20	PASS
			NV	-20	-32000	-5.560382	20	PASS
			NV	-10	-32000	-5.560382	20	PASS
			NV	0	-32000	-5.560382	20	PASS
			NV	10	-32000	-5.560382	20	PASS
			NV	20	-32000	-5.560382	20	PASS
			NV	30	-32000	-5.560382	20	PASS
			NV	40	-32000	-5.560382	20	PASS
		5795	NV	50	-32000	-5.560382	20	PASS
			NV	-30	-32000	-5.522002	20	PASS
			NV	-20	-32000	-5.522002	20	PASS
			NV	-10	-32000	-5.522002	20	PASS
			NV	0	-32000	-5.522002	20	PASS
			NV	10	-32000	-5.522002	20	PASS
			NV	20	-32000	-5.522002	20	PASS
			NV	30	-32000	-5.522002	20	PASS
			NV	40	-32000	-5.522002	20	PASS
			NV	50	-32000	-5.522002	20	PASS
11AC80SIS O	Ant1	5210	NV	-30	-28000	-5.37428	20	PASS
			NV	-20	-28000	-5.37428	20	PASS
			NV	-10	-28000	-5.37428	20	PASS
			NV	0	-28000	-5.37428	20	PASS
			NV	10	-28000	-5.37428	20	PASS
			NV	20	-28000	-5.37428	20	PASS
			NV	30	-28000	-5.37428	20	PASS
			NV	40	-28000	-5.37428	20	PASS
		5775	NV	50	-28000	-5.37428	20	PASS
			NV	-30	-32000	-5.541126	20	PASS
			NV	-20	-32000	-5.541126	20	PASS
			NV	-10	-32000	-5.541126	20	PASS
			NV	0	-32000	-5.541126	20	PASS
			NV	10	-32000	-5.541126	20	PASS
			NV	20	-32000	-5.541126	20	PASS



			NV	30	-32000	-5.541126	20	PASS
			NV	40	-32000	-5.541126	20	PASS
			NV	50	-32000	-5.541126	20	PASS



Appendix D.5: Duty Cycle

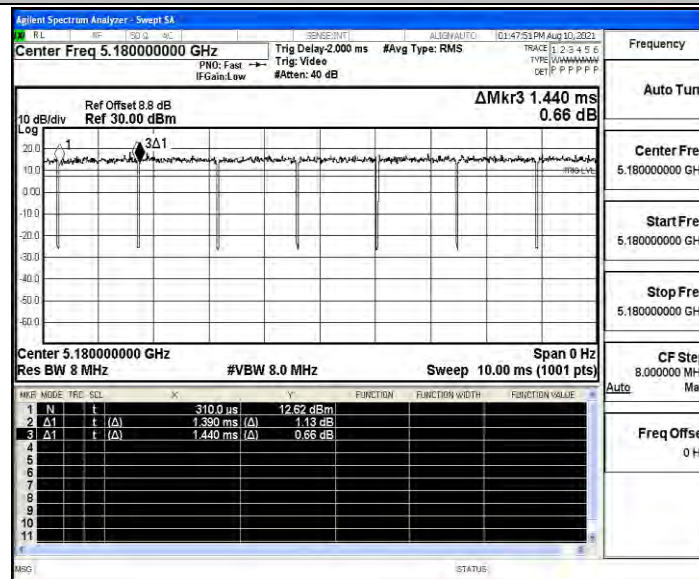
Test Result

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
		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	5180	1.30	1.35	96.30	---	PASS
		5200	1.30	1.35	96.30	---	PASS
		5240	1.30	1.35	96.30	---	PASS
		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	5190	0.64	0.69	92.75	---	PASS
		5230	0.64	0.69	92.75	---	PASS
		5755	0.64	0.69	92.75	---	PASS
		5795	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
		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	5190	0.65	0.70	92.86	---	PASS
		5230	0.65	0.70	92.86	---	PASS
		5755	0.65	0.70	92.86	---	PASS
		5795	0.65	0.70	92.86	---	PASS
11AC80SISO	Ant1	5210	0.32	0.37	86.49	---	PASS
		5775	0.32	0.37	86.49	---	PASS

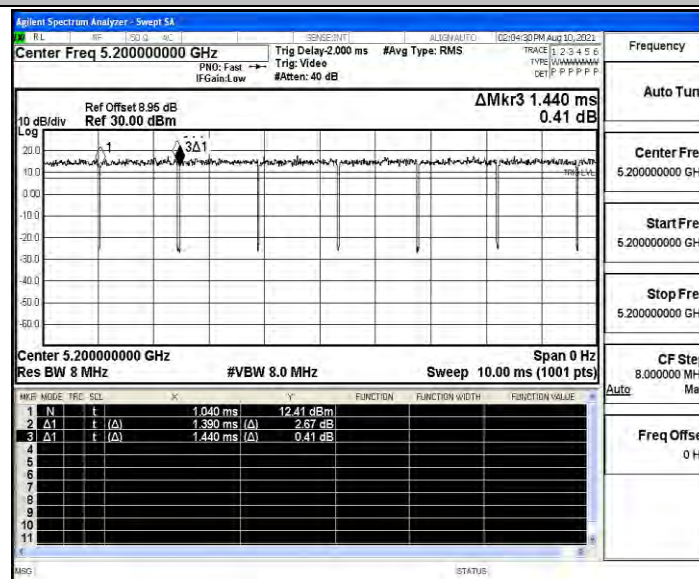


Test Graphs

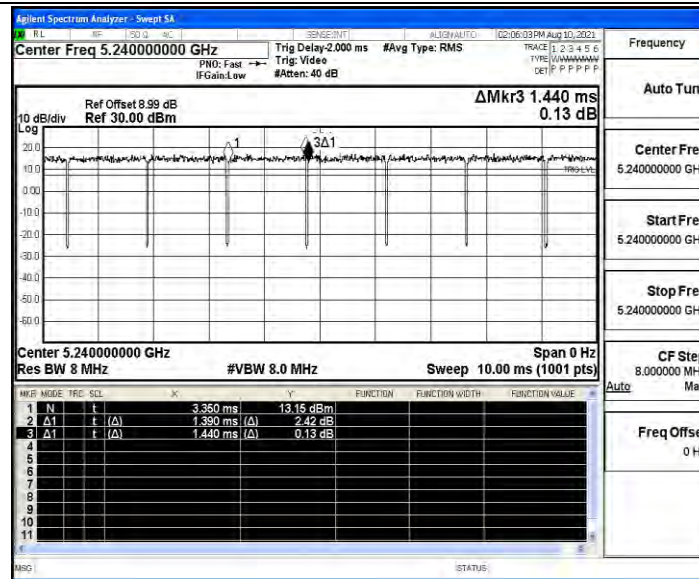
11A_Ant1_5180



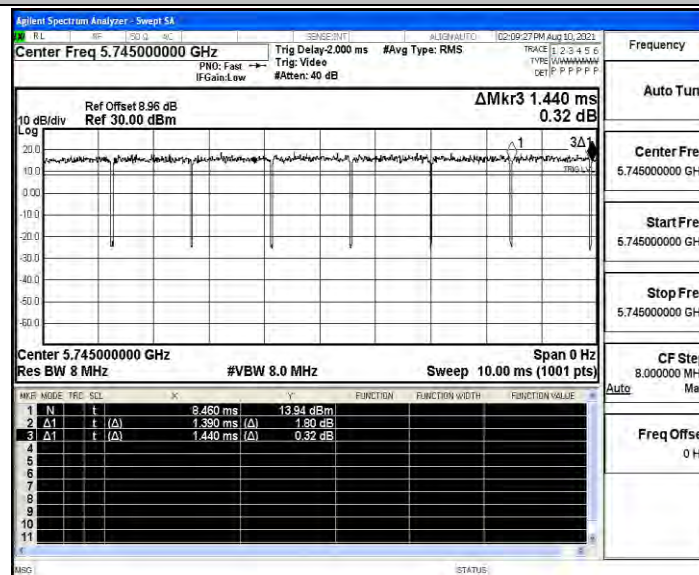
11A_Ant1_5200



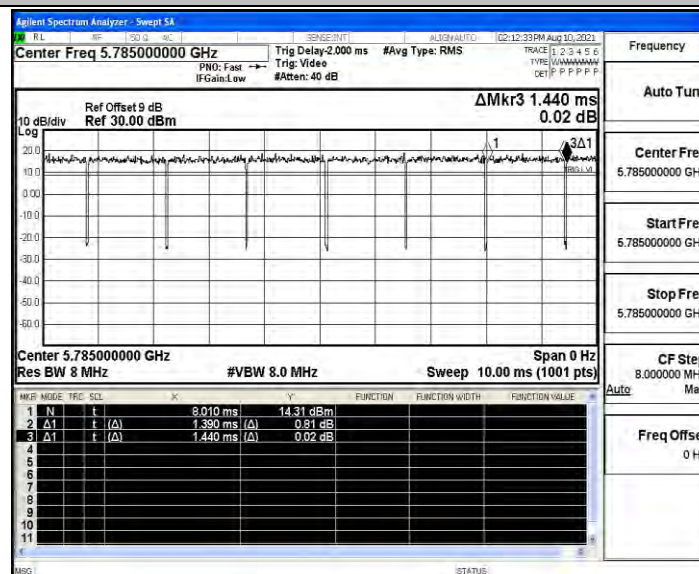
11A_Ant1_5240



11A_Ant1_5745

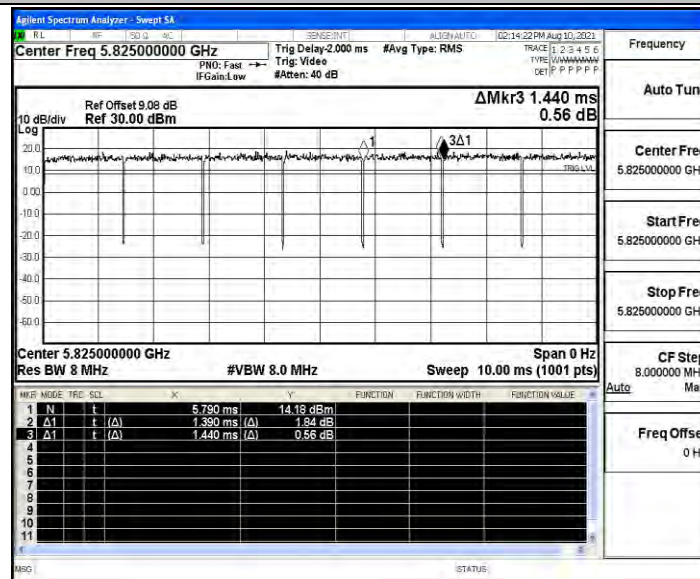


11A_Ant1_5785

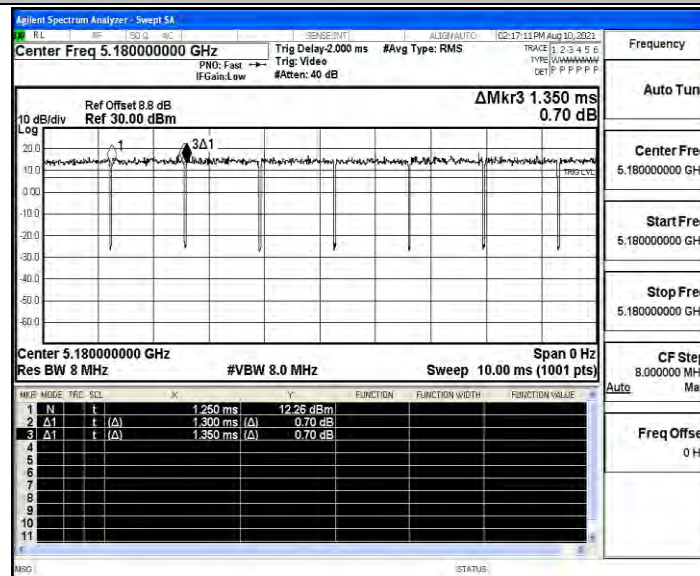




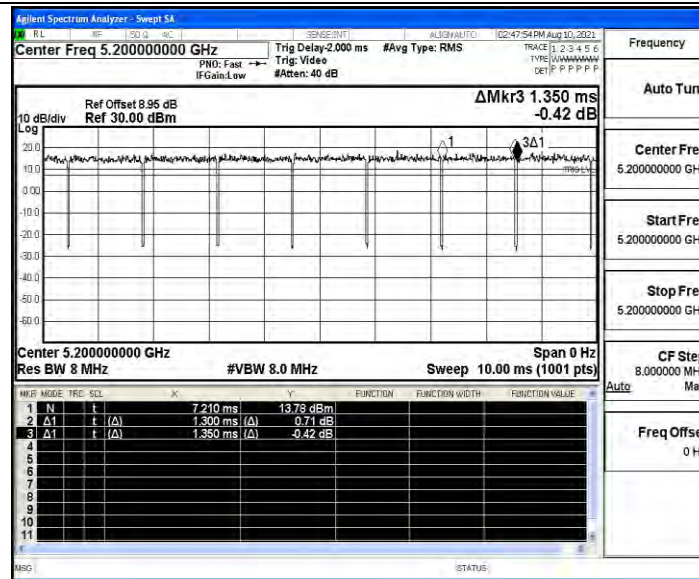
11A_Ant1_5825



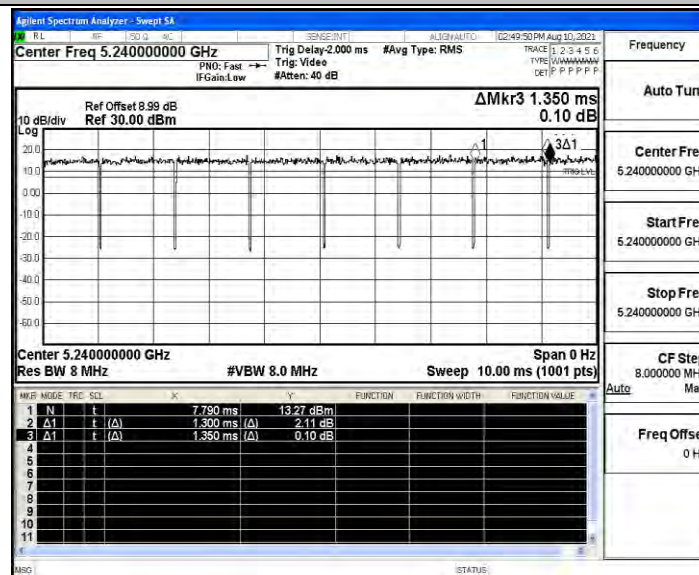
11N20SISO_Ant1_5180



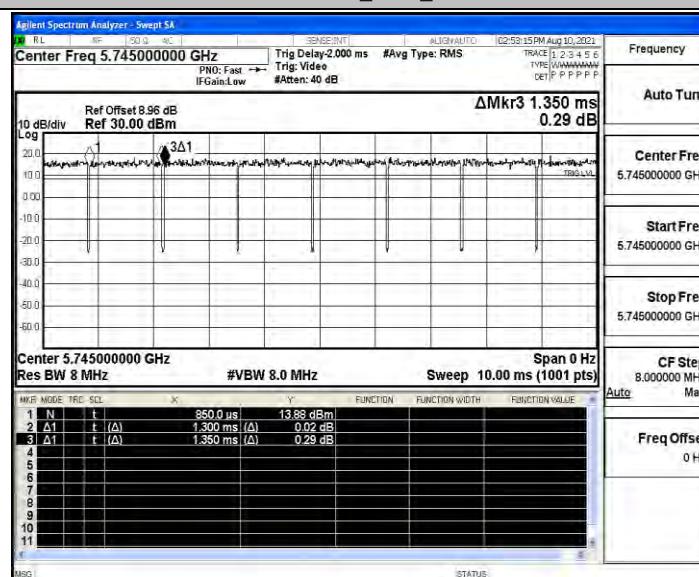
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11N20SISO_Ant1_5240

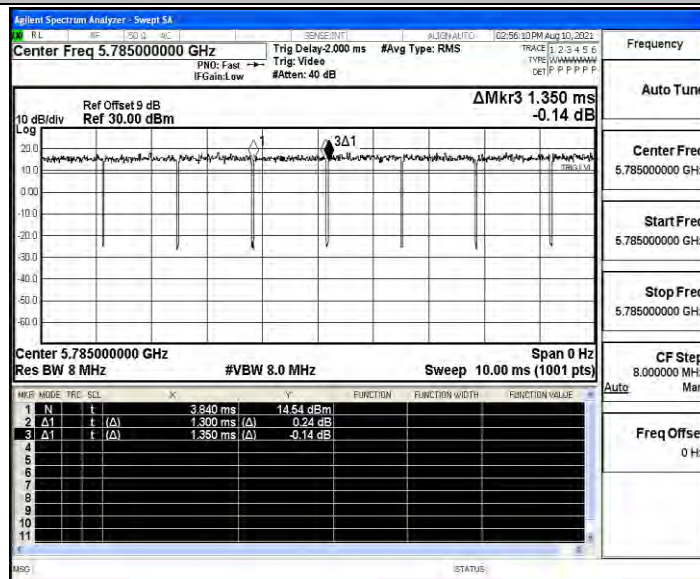


11N20SISO_Ant1_5745

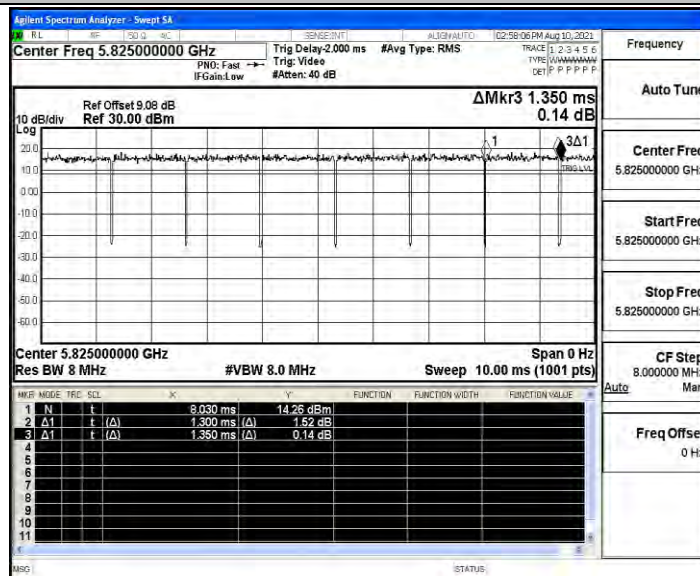




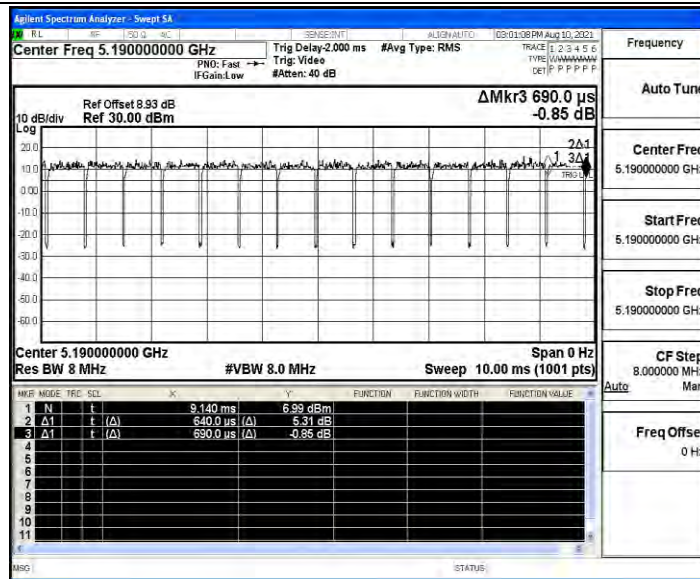
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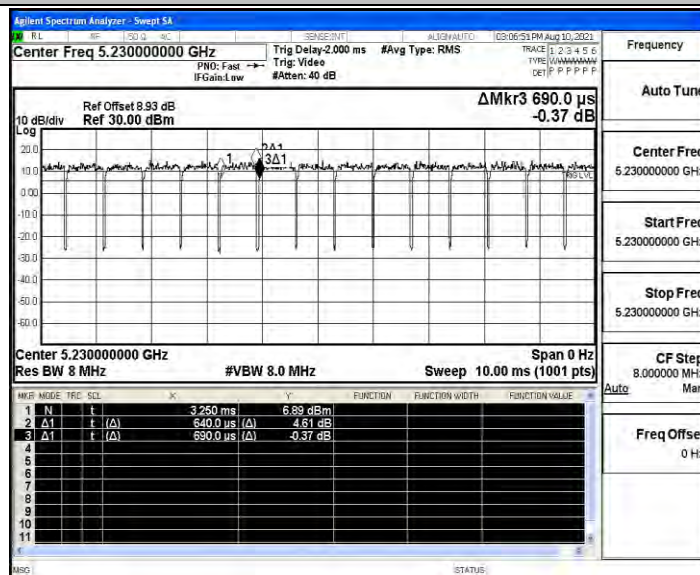
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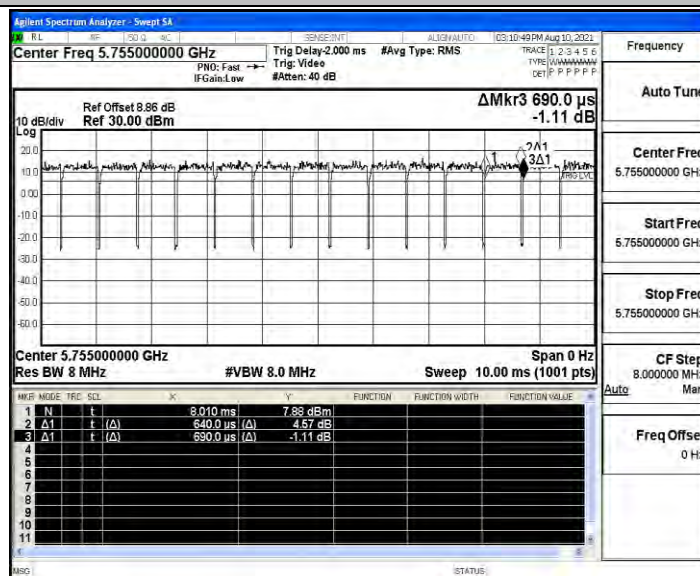
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11N40SISO_Ant1_5230

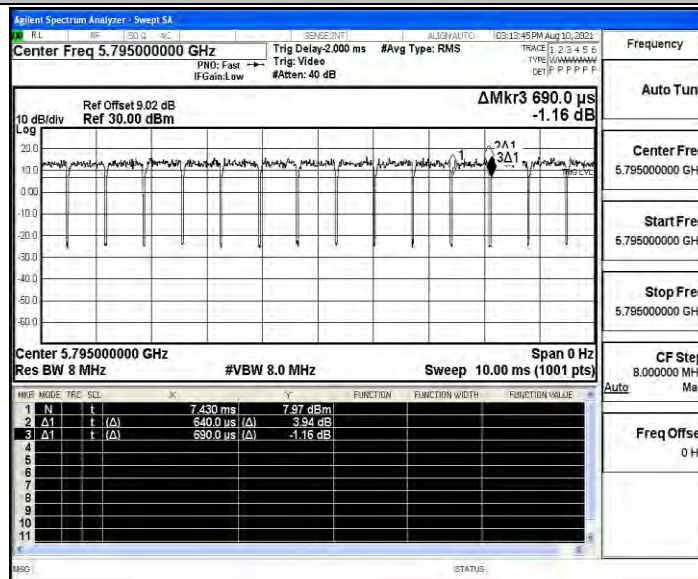


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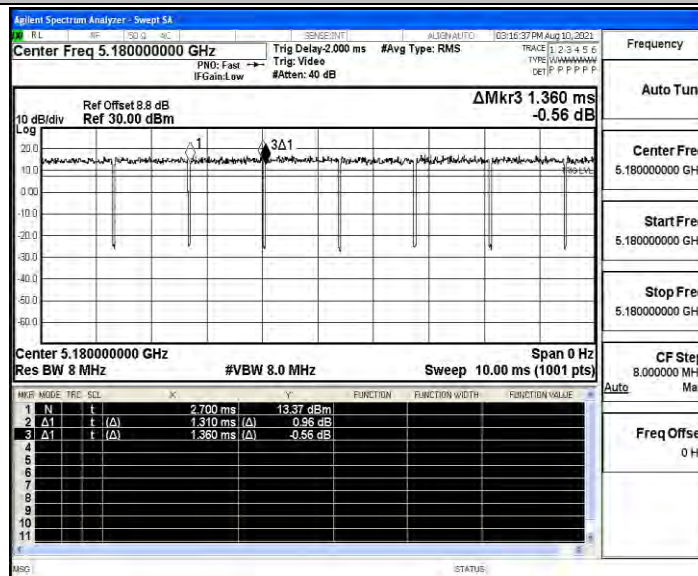




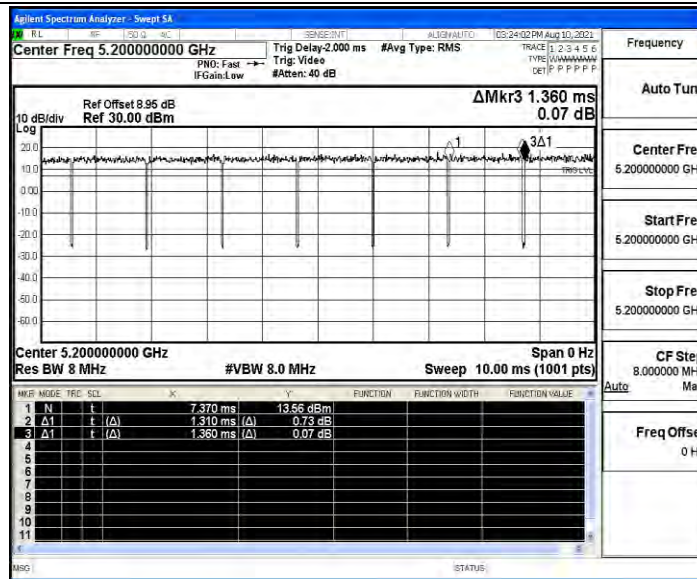
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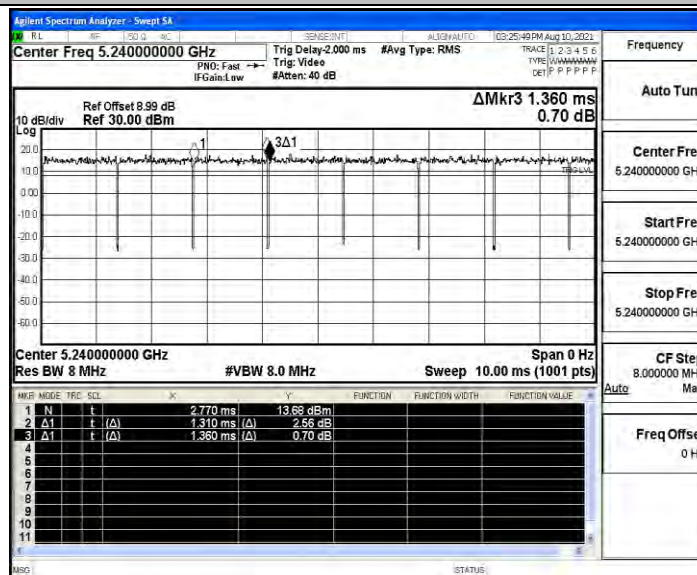
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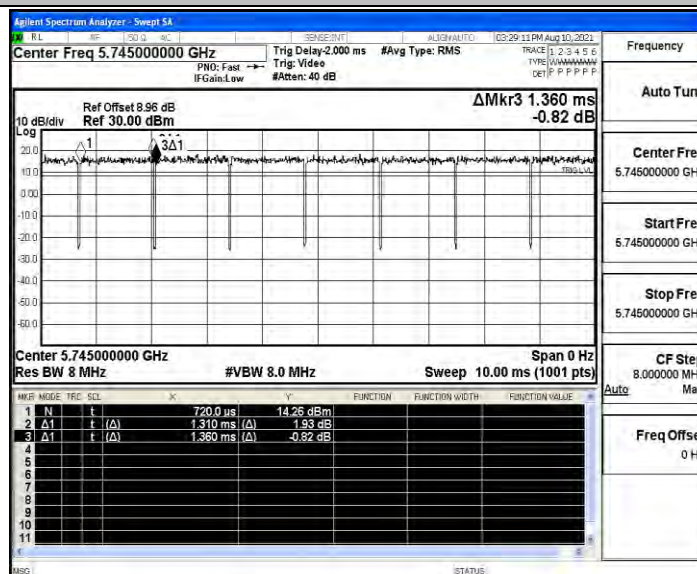
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11AC20SISO_Ant1_5240

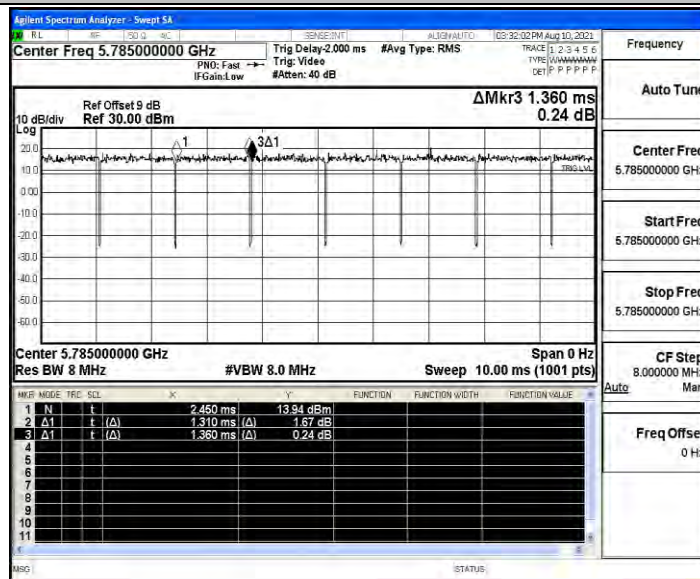


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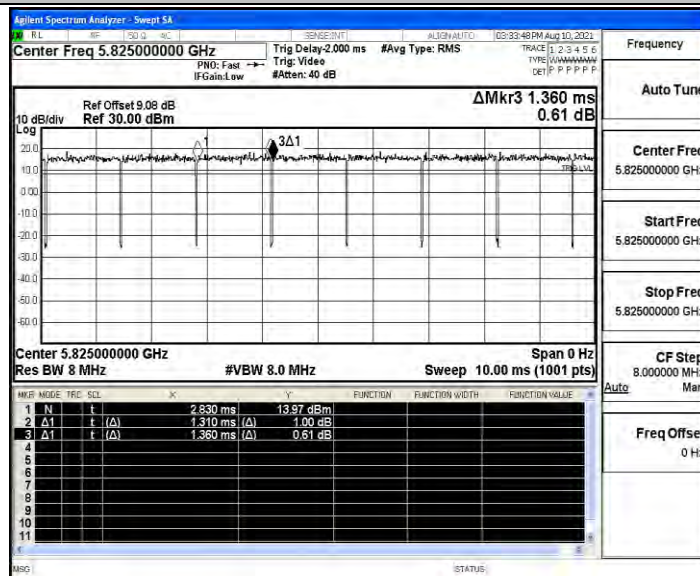




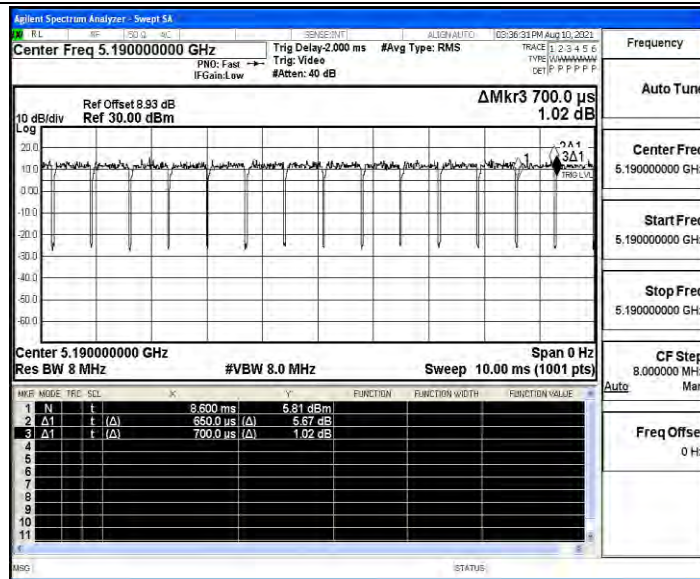
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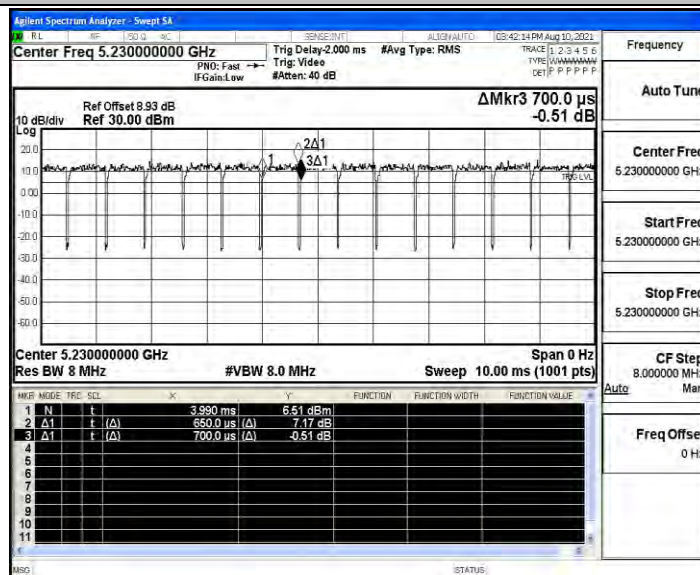
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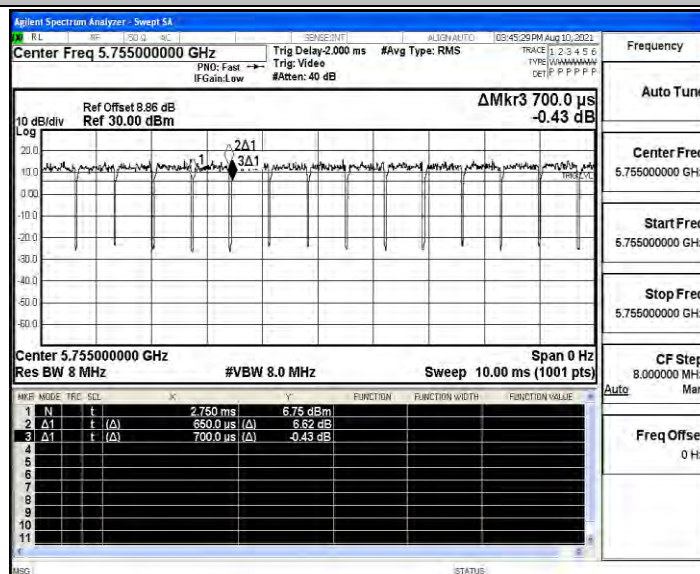
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11AC40SISO_Ant1_5230

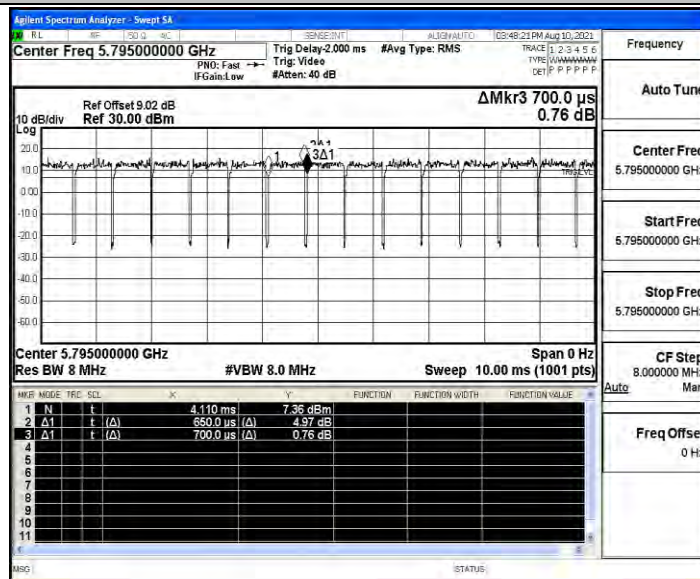


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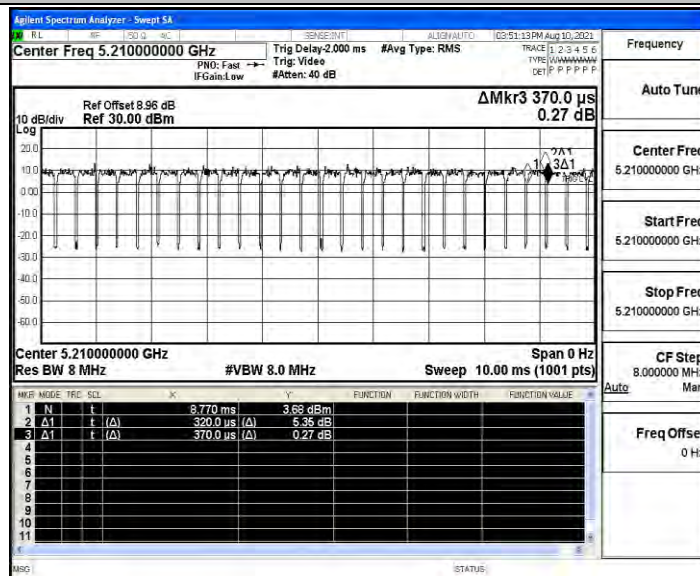




11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775

