



Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Laser Projection TV

Test Model: MaxAngel M1

Environmental Conditions

Temperature:	22.7°C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	 Bill Zhu
Supervised by:	 Li Huan



D.1 Emission Bandwidth

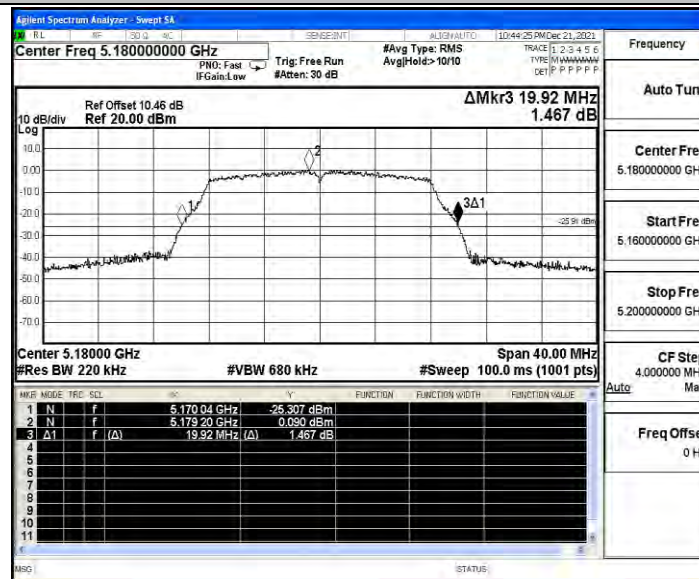
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5180	19.920	5170.040	5189.960	---	---
		5220	20.040	5209.960	5230.000	---	---
		5240	20.000	5230.000	5250.000	---	---
11N20SISO	Ant0	5180	20.320	5169.840	5190.160	---	---
		5220	20.280	5209.880	5230.160	---	---
		5240	20.320	5229.880	5250.200	---	---
11N40SISO	Ant0	5190	40.800	5169.200	5210.000	---	---
		5230	40.000	5210.000	5250.000	---	---
11AC20SISO	Ant0	5180	20.280	5169.880	5190.160	---	---
		5220	20.320	5209.880	5230.200	---	---
		5240	20.360	5229.760	5250.120	---	---
11AC40SISO	Ant0	5190	40.640	5169.760	5210.400	---	---
		5230	40.400	5209.760	5250.160	---	---
11AC80SISO	Ant0	5210	81.760	5169.040	5250.800	---	---

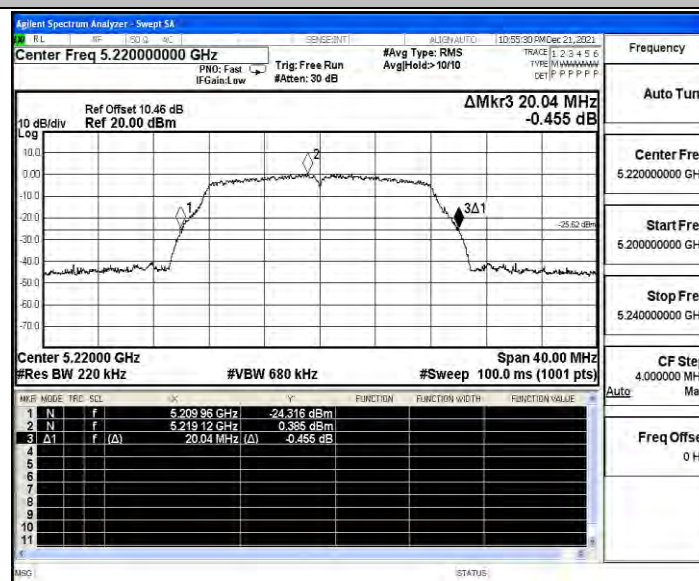


Test Graphs

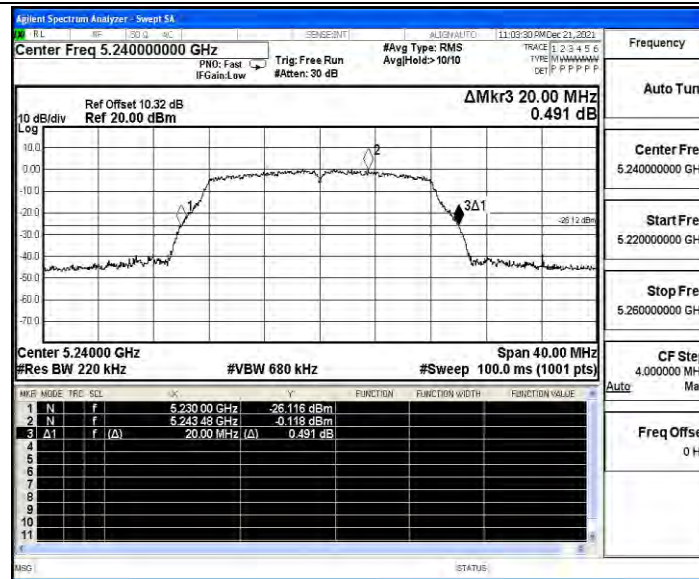
11A_Ant0_5180



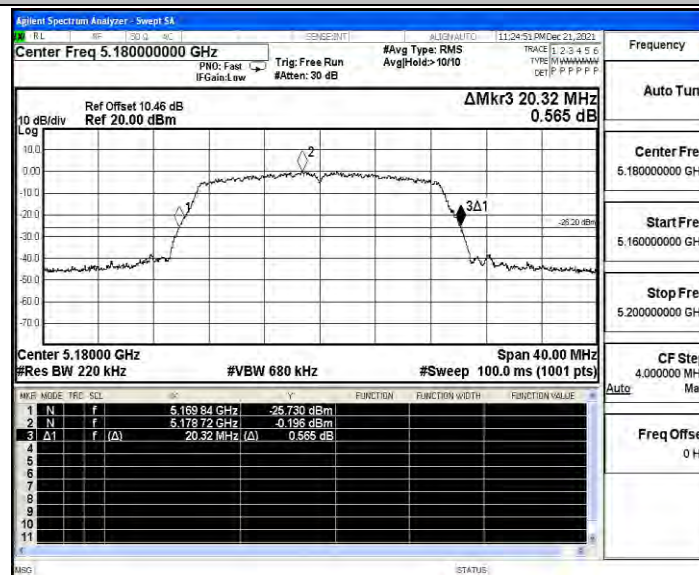
11A_Ant0_5220



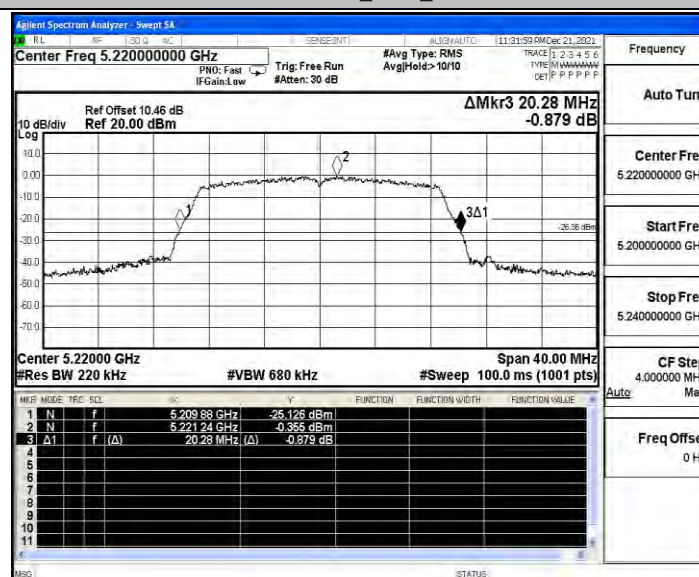
11A_Ant0_5240



11N20SISO_Ant0_5180

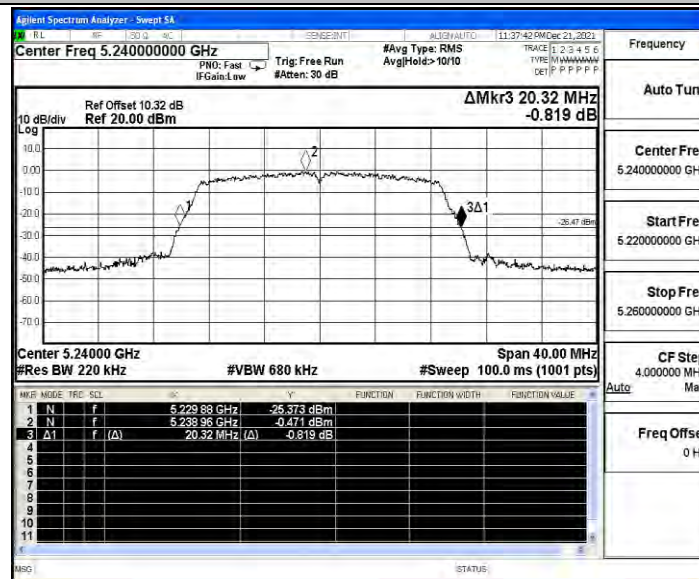


11N20SISO_Ant0_5220

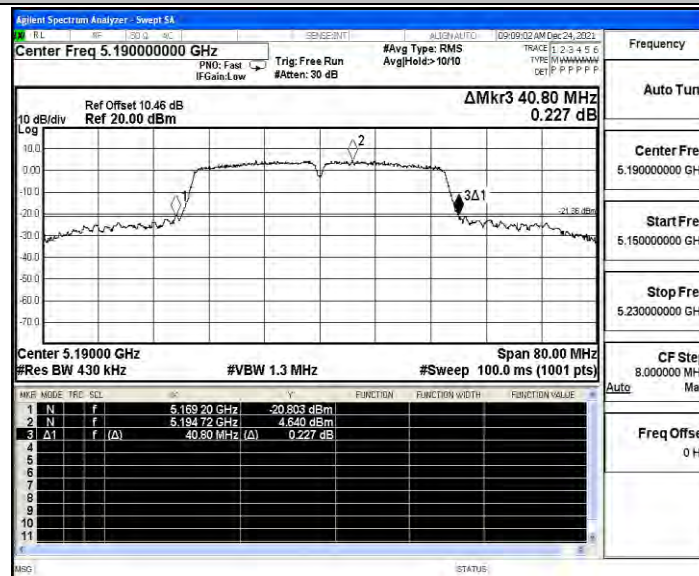




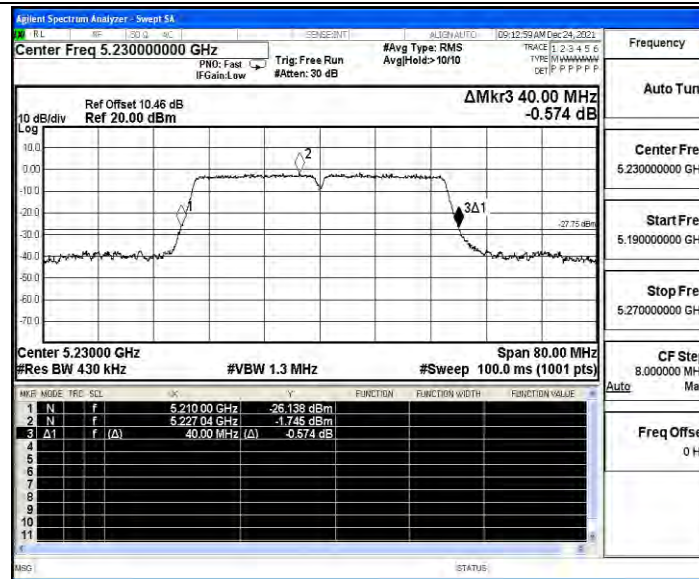
11N20SISO_Ant0_5240



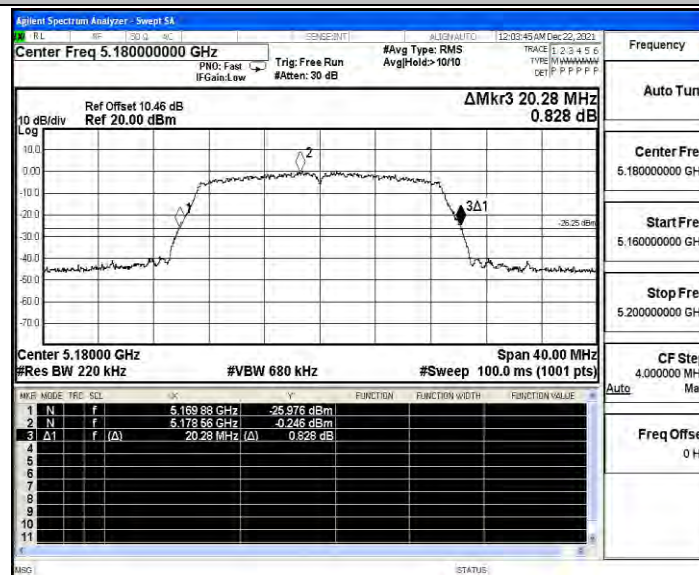
11N40SISO_Ant0_5190



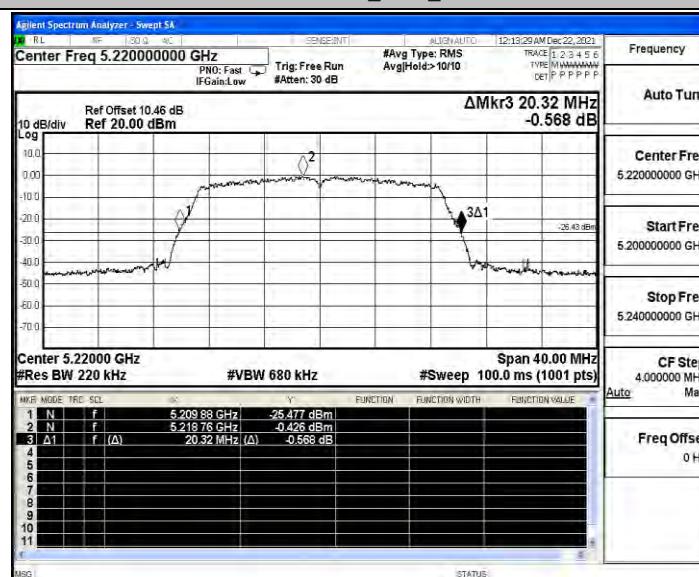
11N40SISO_Ant0_5230



11AC20SISO_Ant0_5180

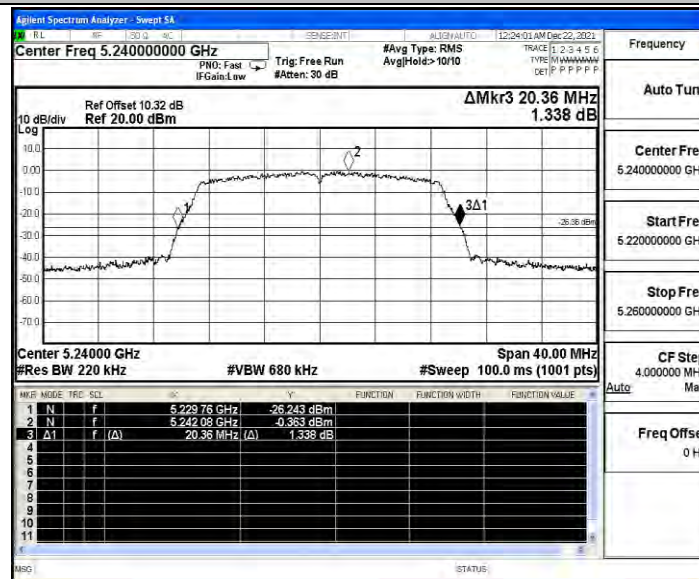


11AC20SISO_Ant0_5220

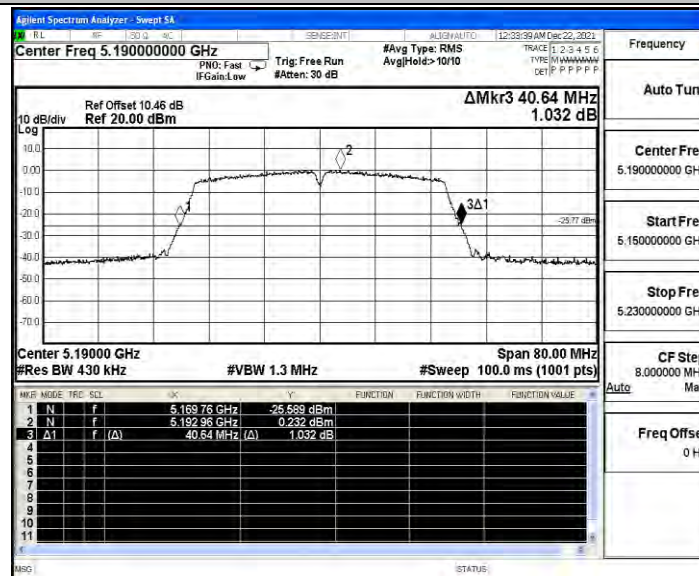




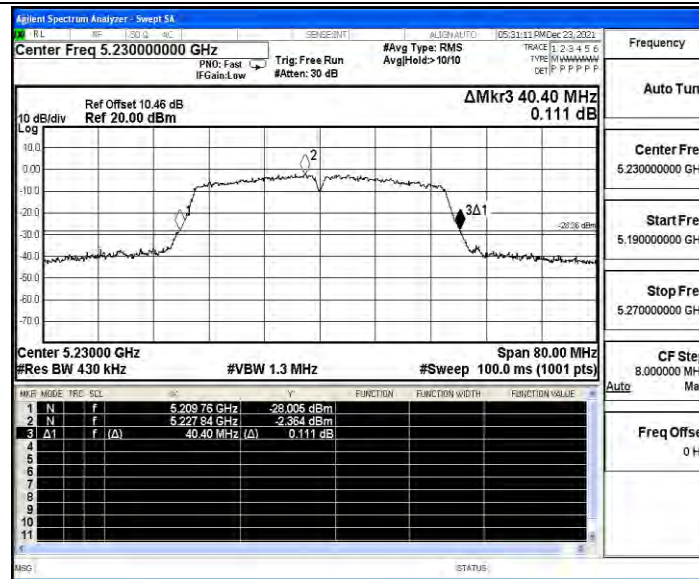
11AC20SISO_Ant0_5240



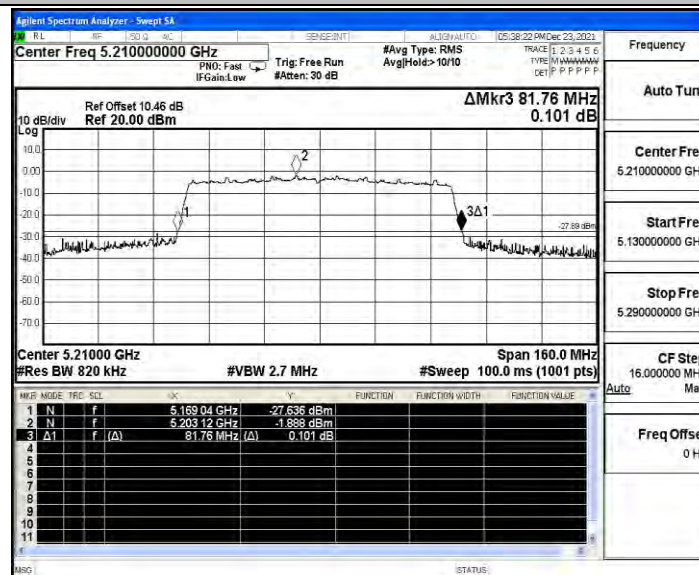
11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230



11AC80SISO_Ant0_5210





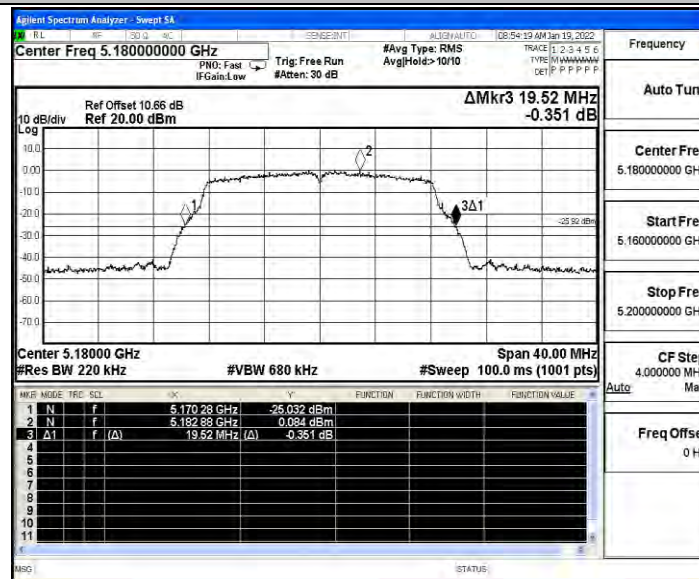
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.520	5170.280	5189.800	---	---
		5220	19.640	5210.160	5229.800	---	---
		5240	19.560	5230.200	5249.760	---	---
11N20SISO	Ant1	5180	20.040	5170.000	5190.040	---	---
		5220	20.240	5209.960	5230.200	---	---
		5240	20.200	5229.920	5250.120	---	---
11N40SISO	Ant1	5190	40.080	5170.000	5210.080	---	---
		5230	40.160	5209.920	5250.080	---	---
11AC20SISO	Ant1	5180	20.040	5169.960	5190.000	---	---
		5220	20.040	5210.000	5230.040	---	---
		5240	20.160	5229.960	5250.120	---	---
11AC40SISO	Ant1	5190	40.080	5169.920	5210.000	---	---
		5230	40.160	5209.920	5250.080	---	---
11AC80SISO	Ant1	5210	80.800	5169.520	5250.320	---	---

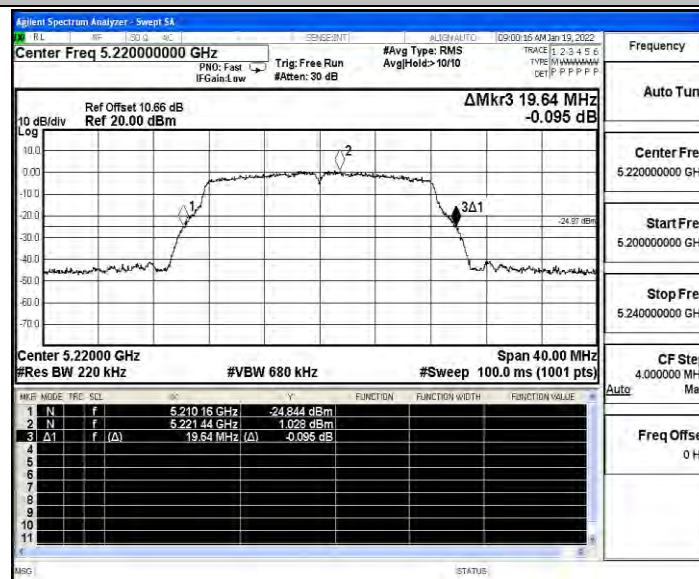


Test Graphs

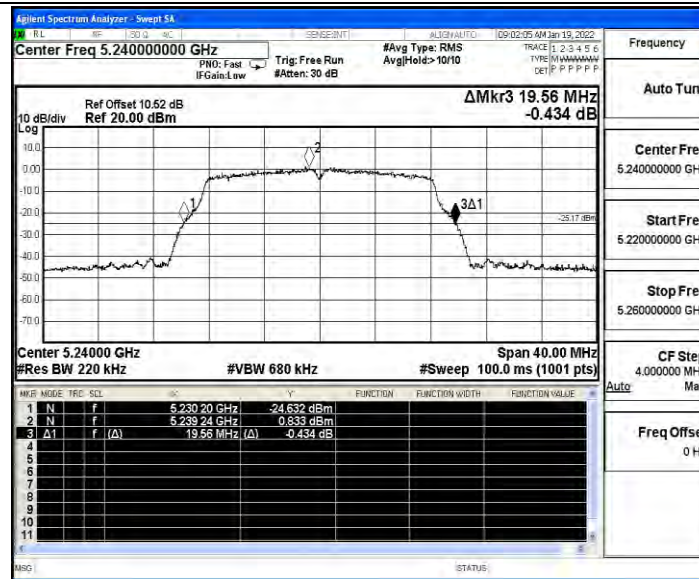
11A_Ant1_5180



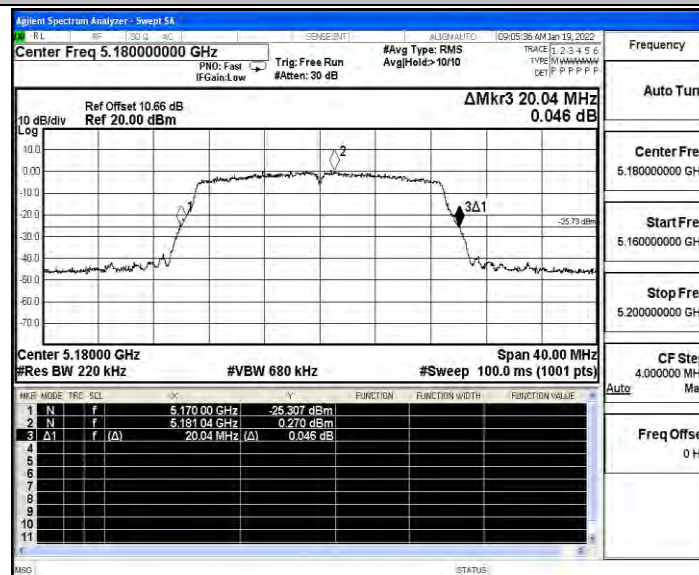
11A_Ant1_5220



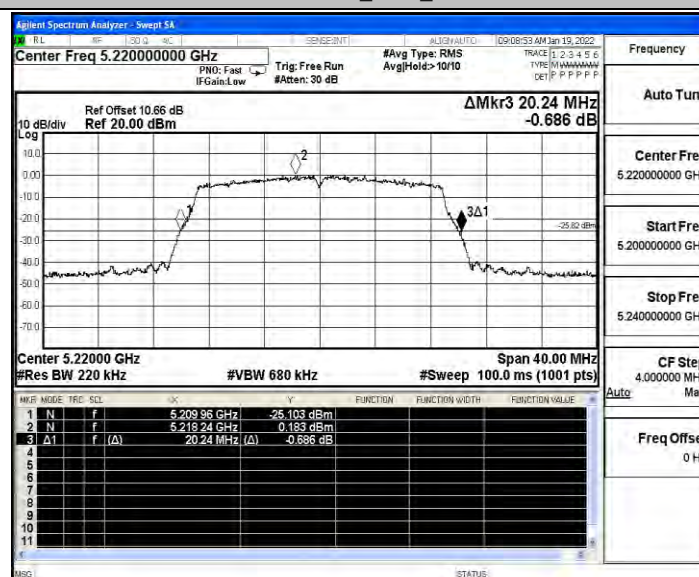
11A_Ant1_5240



11N20SISO_Ant1_5180

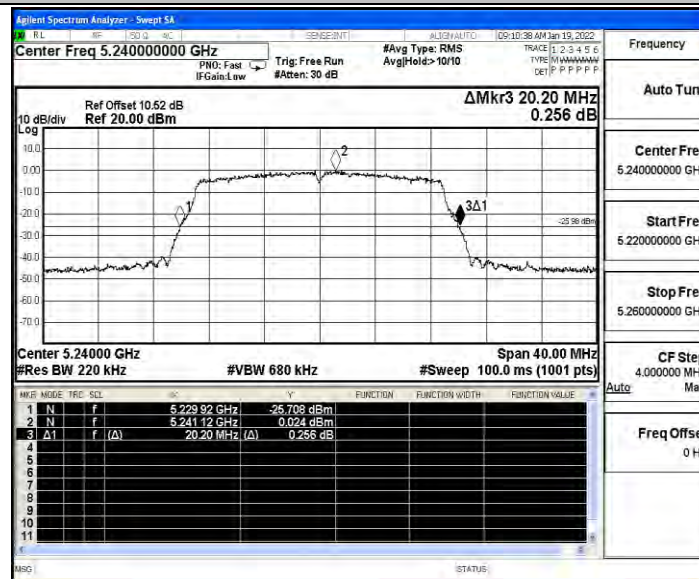


11N20SISO_Ant1_5220

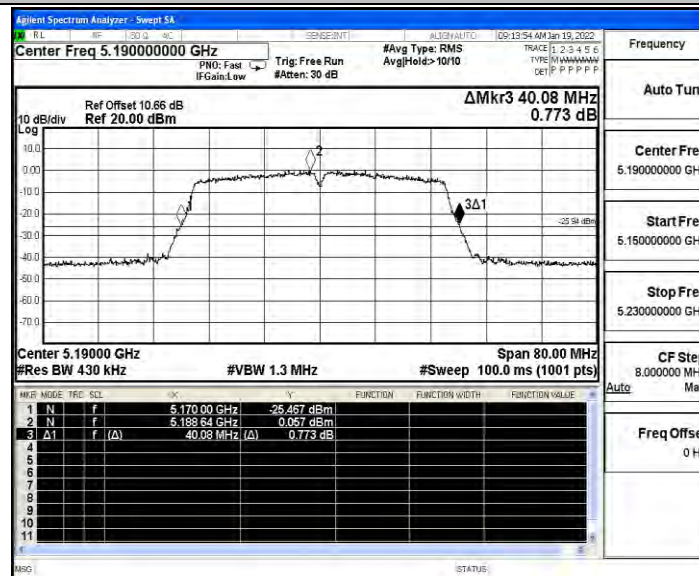




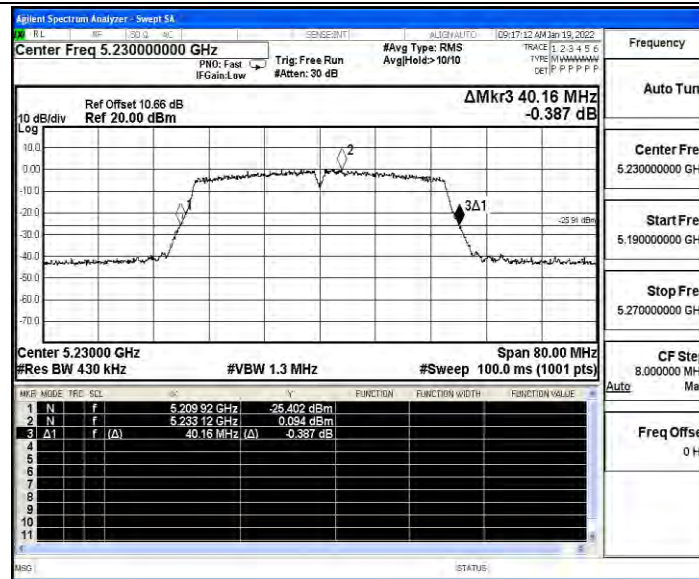
11N20SISO_Ant1_5240



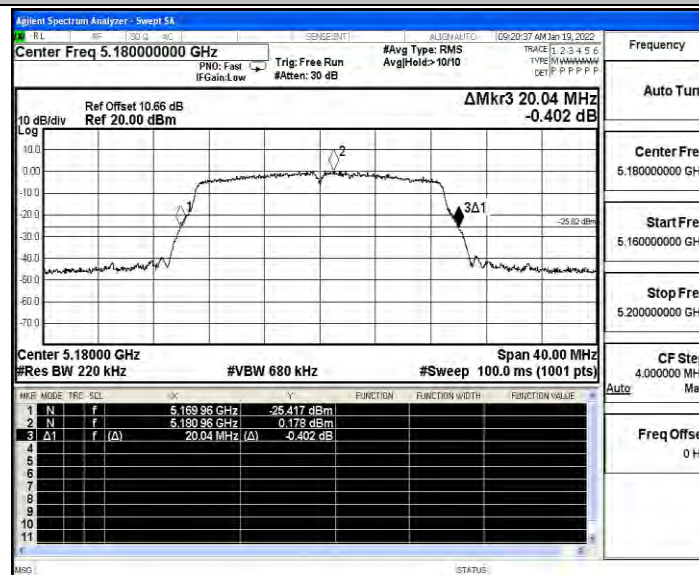
11N40SISO_Ant1_5190



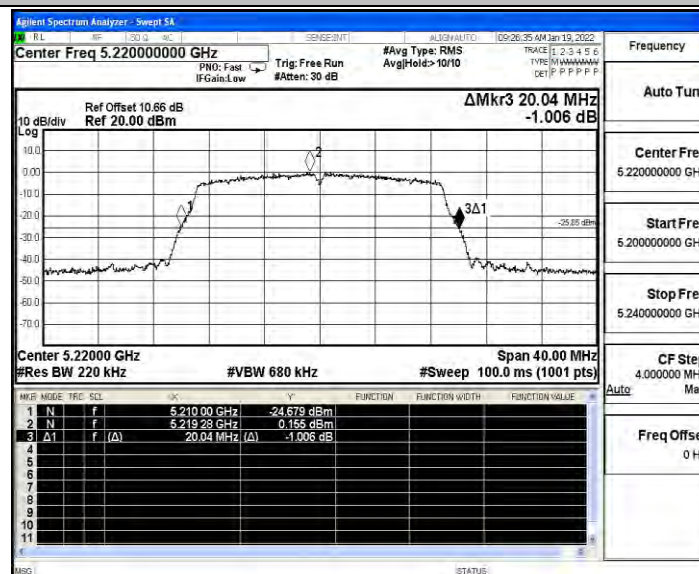
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

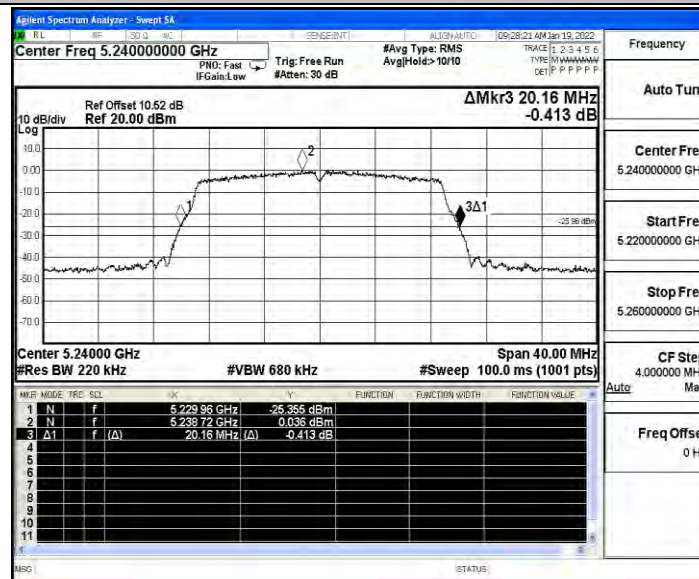


11AC20SISO_Ant1_5220

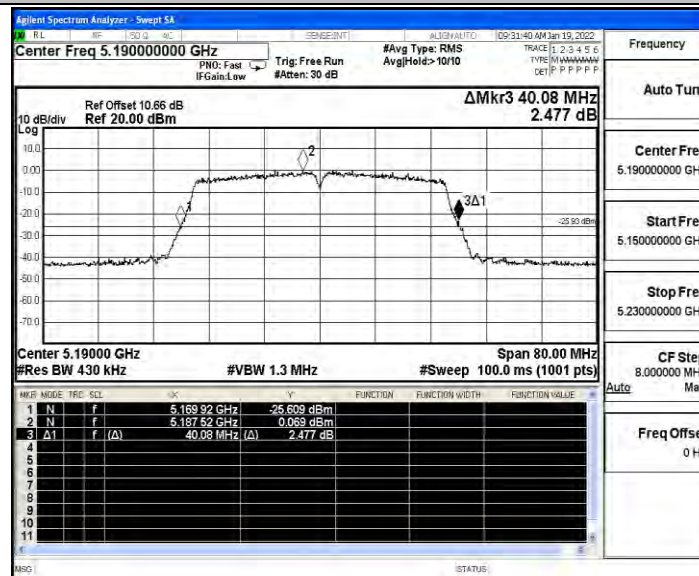




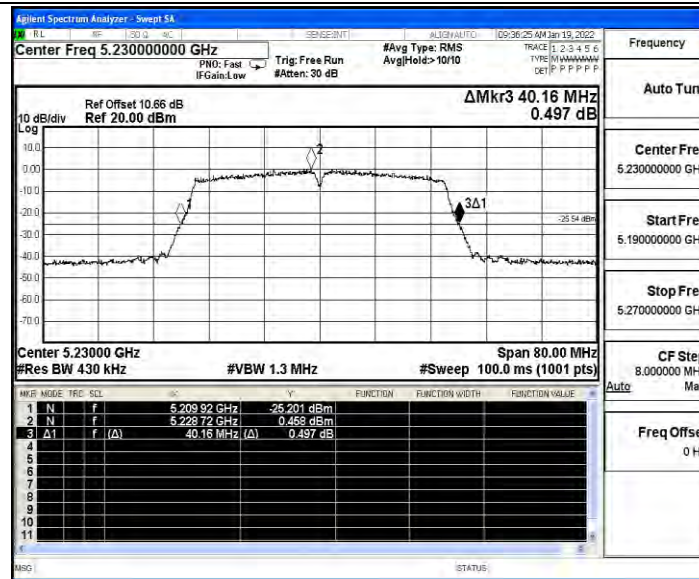
11AC20SISO_Ant1_5240



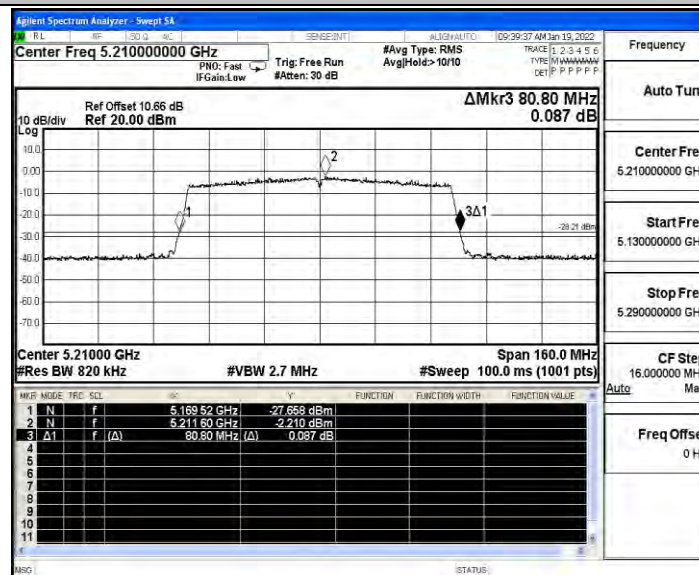
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





D.2 Maximum conducted output power

Test Result

TestMode	Channel	Result[dBm]			Limit[dBm]	Verdict
		Ant 0	Ant 1	MIMO		
11A	5180	9.03	8.56	/	≤ 23.98	PASS
	5220	8.97	8.75	/	≤ 23.98	PASS
	5240	8.92	8.54	/	≤ 23.98	PASS
11N20SISO	5180	8.93	8.50	11.73	≤ 23.98	PASS
	5220	8.67	8.42	11.56	≤ 23.98	PASS
	5240	8.70	8.37	11.55	≤ 23.98	PASS
11N40SISO	5190	6.30	7.69	10.06	≤ 23.98	PASS
	5230	7.98	7.70	10.85	≤ 23.98	PASS
11AC20SISO	5180	8.87	8.49	11.69	≤ 23.98	PASS
	5220	8.62	8.40	11.52	≤ 23.98	PASS
	5240	8.75	8.10	11.45	≤ 23.98	PASS
11AC40SISO	5190	8.91	8.01	11.49	≤ 23.98	PASS
	5230	6.69	7.80	10.29	≤ 23.98	PASS
11AC80SISO	5210	7.22	7.76	10.51	≤ 23.98	PASS

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



D.3 Maximum power spectral density

Test Result

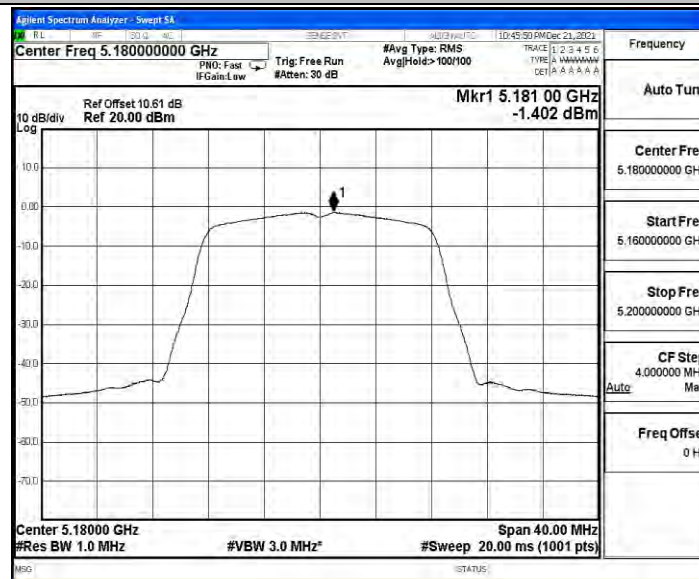
TestMode	Channel	Result [dBm/MHz]			Limit[dBm/MHz]	Verdict
		Ant 0	Ant 1	MIMO		
11A	5180	-1.4	-1.67	/	≤11.00	PASS
	5220	-1.5	-1.52	/	≤11.00	PASS
	5240	-1.52	-1.65	/	≤11.00	PASS
11N20SISO	5180	-1.72	-1.99	1.16	≤11.00	PASS
	5220	-2.01	-1.92	1.05	≤11.00	PASS
	5240	-1.89	-2.14	1.00	≤11.00	PASS
11N40SISO	5190	-8.41	-5.69	-3.83	≤11.00	PASS
	5230	-6.73	-5.73	-3.19	≤11.00	PASS
11AC20SISO	5180	-1.8	-1.9	1.16	≤11.00	PASS
	5220	-1.99	-1.74	1.15	≤11.00	PASS
	5240	-1.87	-2.19	0.98	≤11.00	PASS
11AC40SISO	5190	-4.61	-5.33	-1.94	≤11.00	PASS
	5230	-6.54	-5.61	-3.04	≤11.00	PASS
11AC80SISO	5210	-9.83	-8.27	-5.97	≤11.00	PASS

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

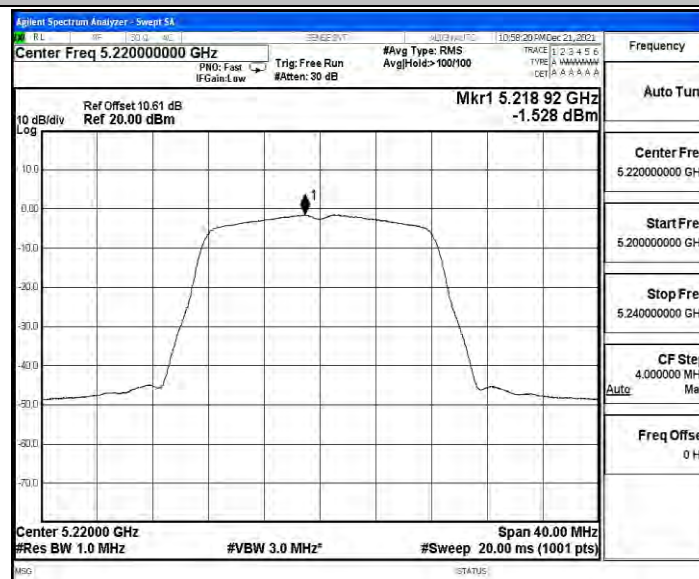


Test Graphs

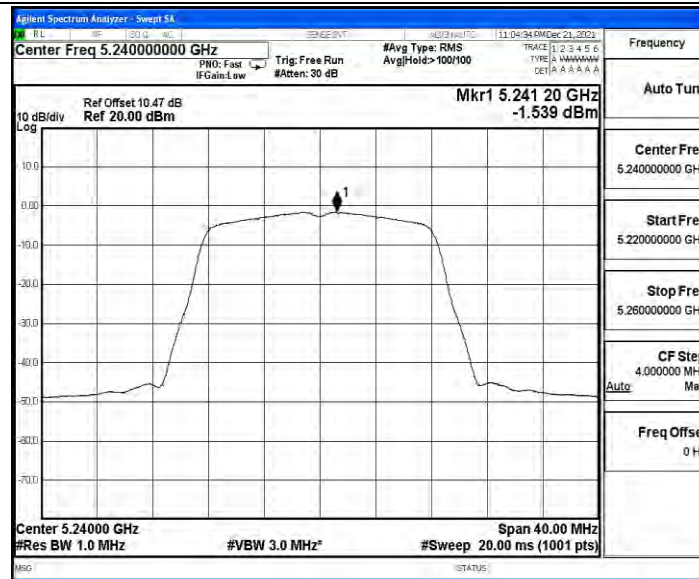
11A_Ant0_5180



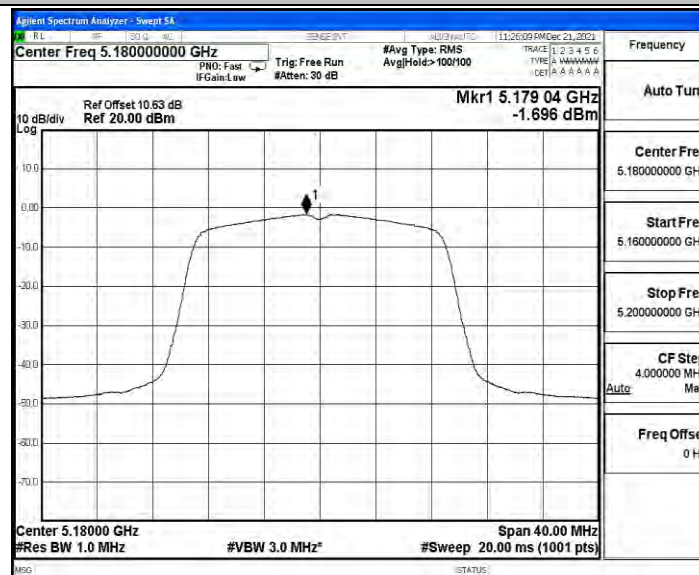
11A_Ant0_5220



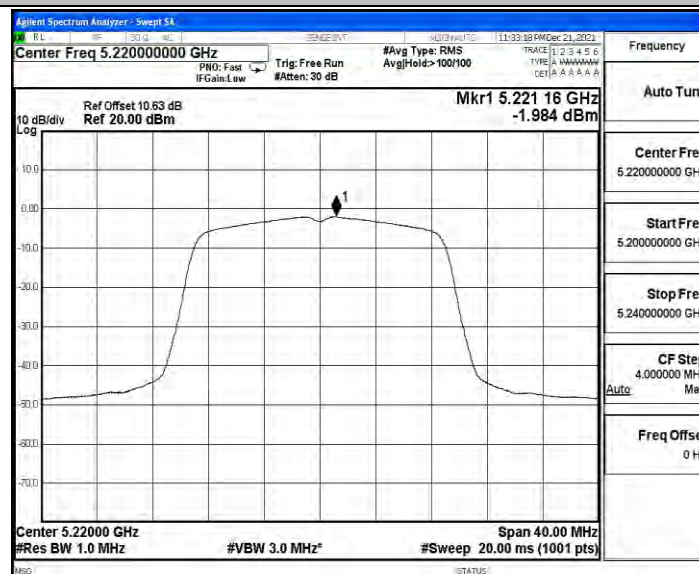
11A_Ant0_5240



11N20SISO_Ant0_5180

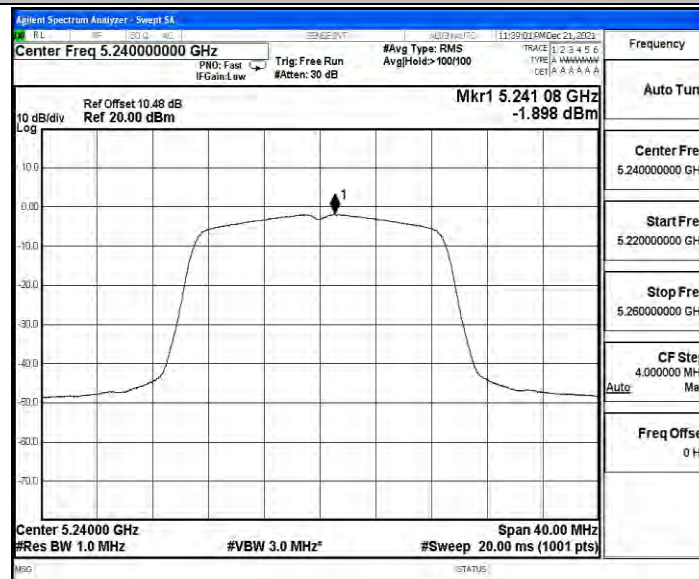


11N20SISO_Ant0_5220

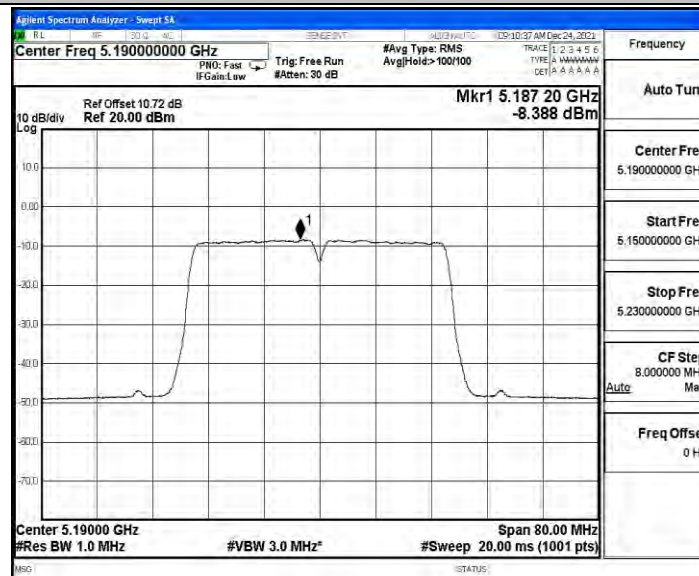




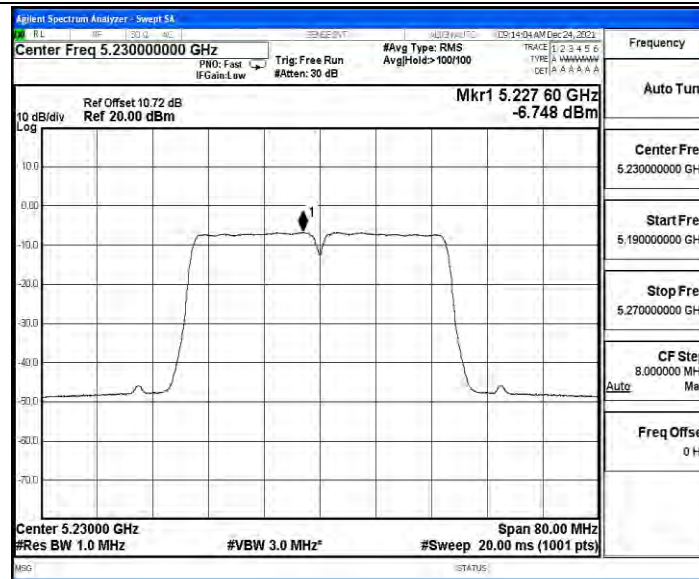
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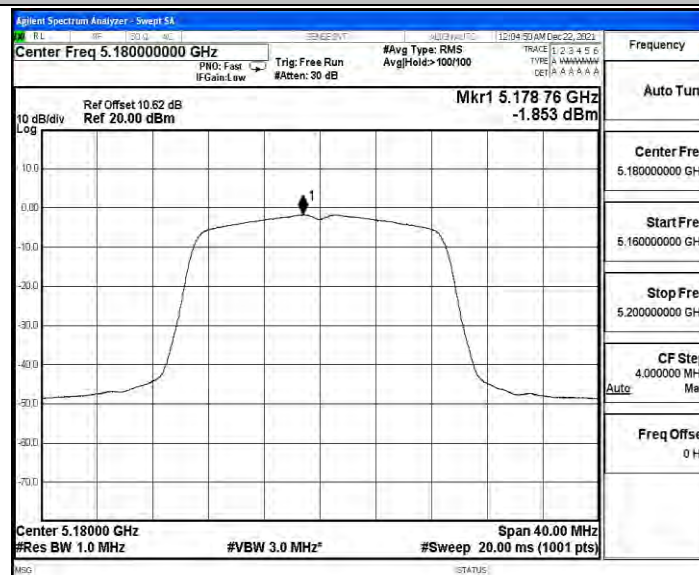
11N40SISO_Ant0_5190



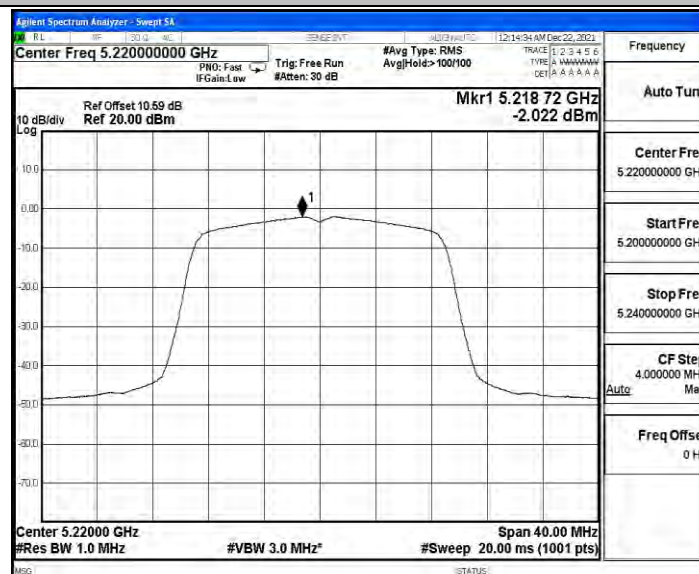
11N40SISO_Ant0_5230



11AC20SISO_Ant0_5180

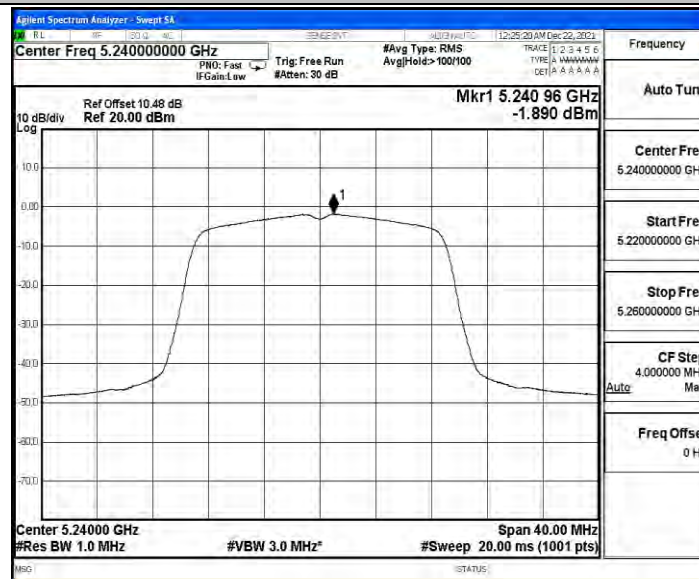


11AC20SISO_Ant0_5220

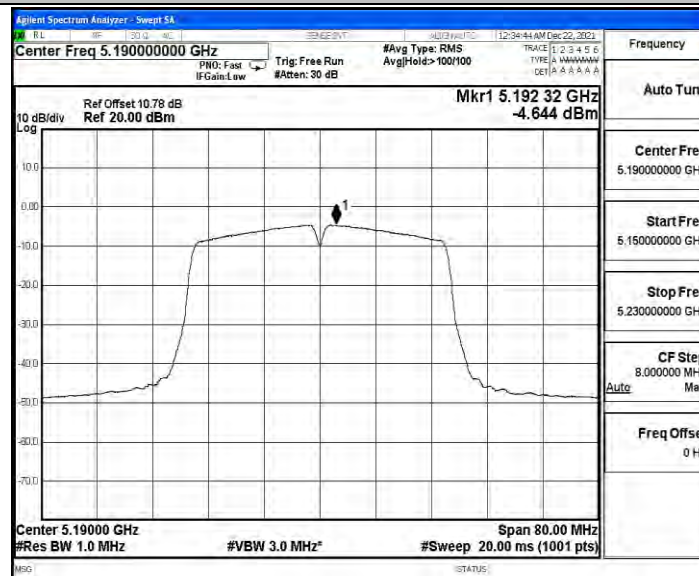




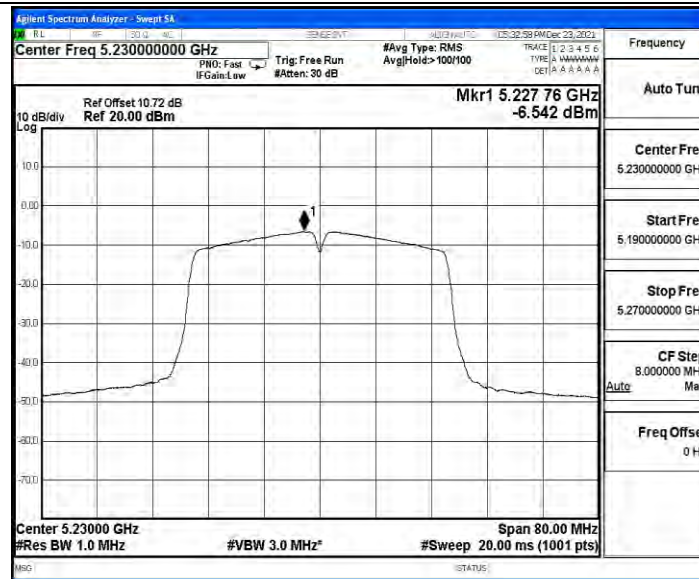
11AC20SISO_Ant0_5240



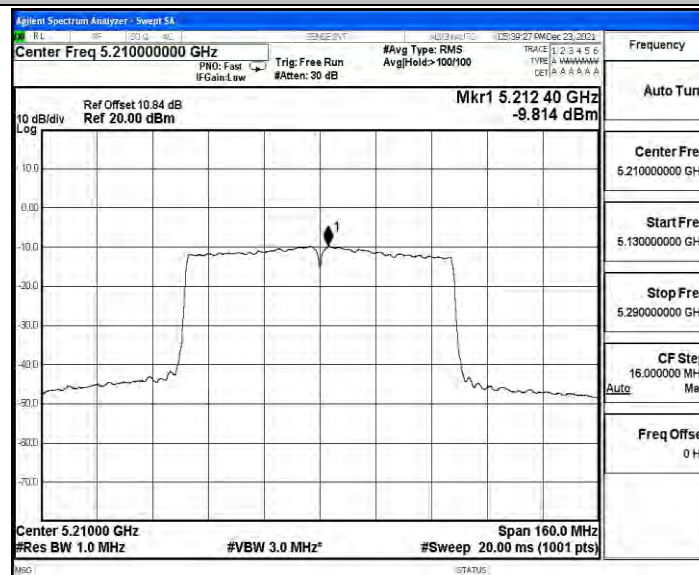
11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230



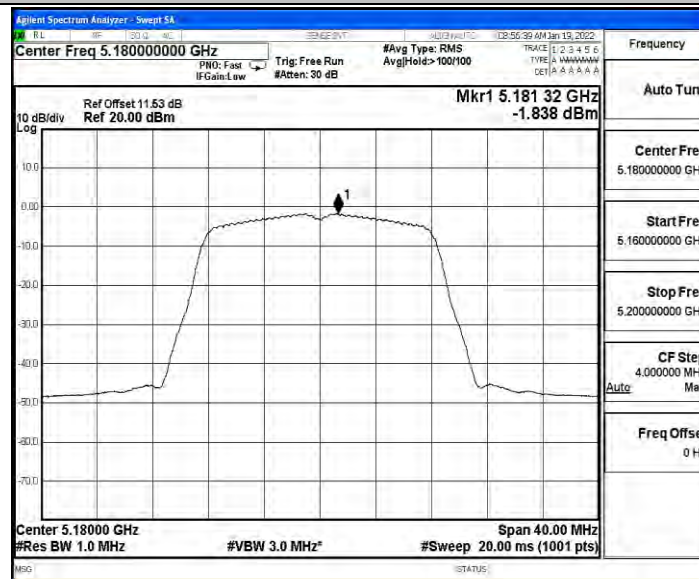
11AC80SISO_Ant0_5210



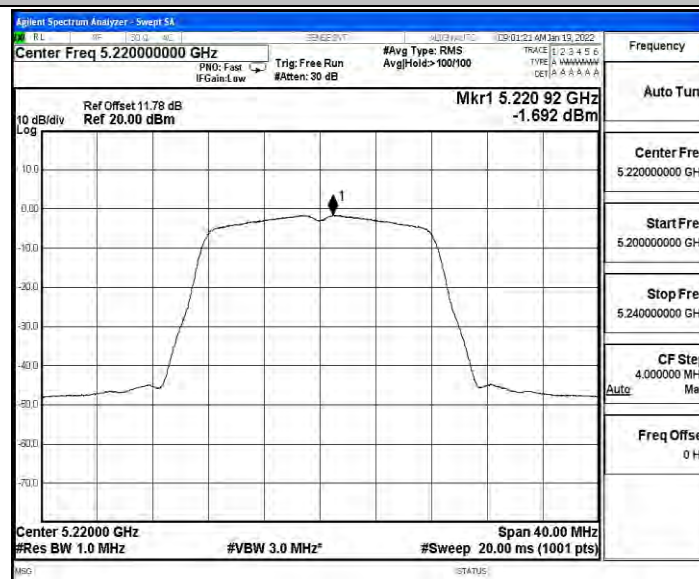


Test Graphs

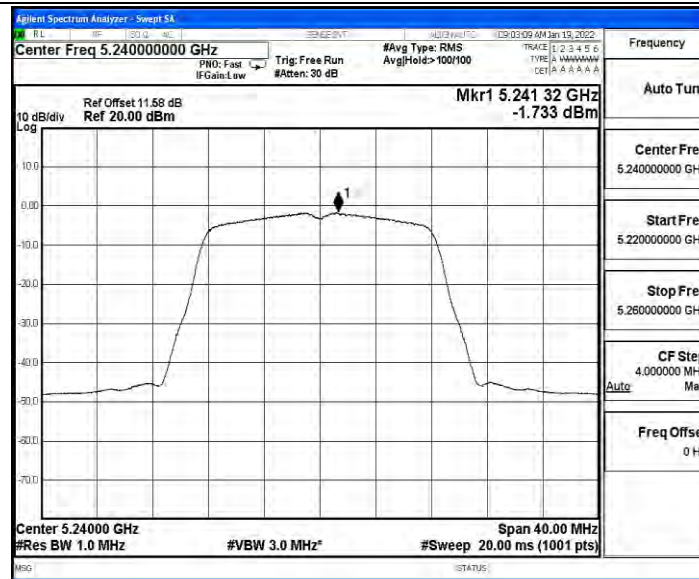
11A_Ant1_5180



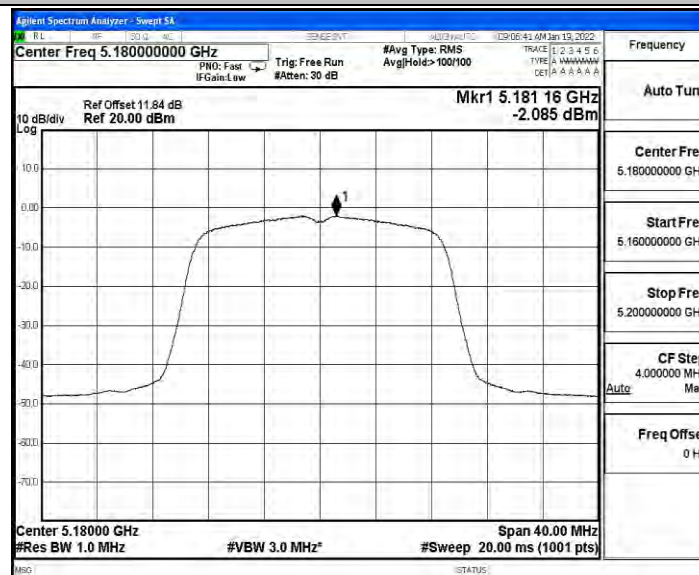
11A_Ant1_5220



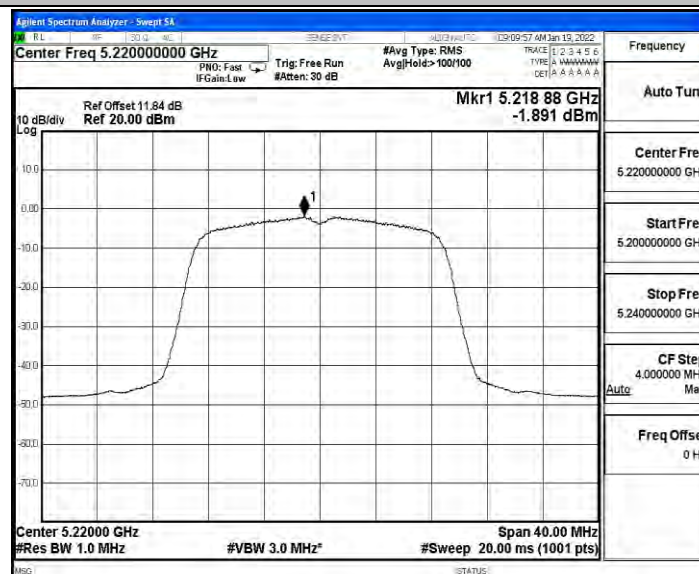
11A_Ant1_5240



11N20SISO_Ant1_5180

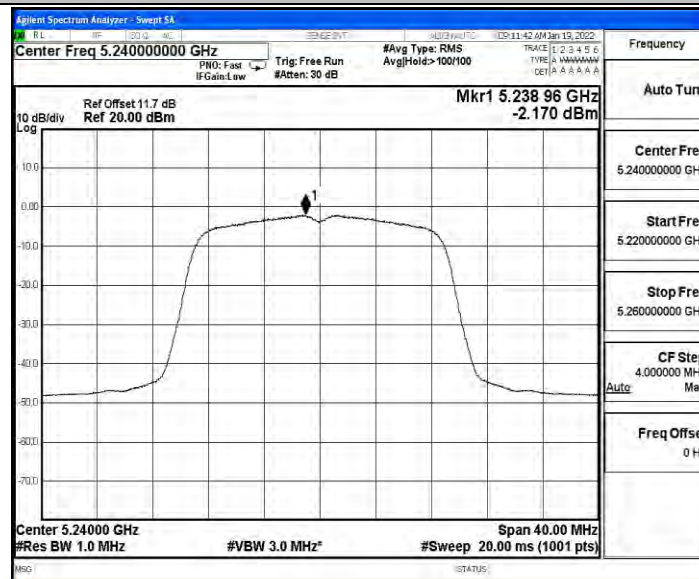


11N20SISO_Ant1_5220

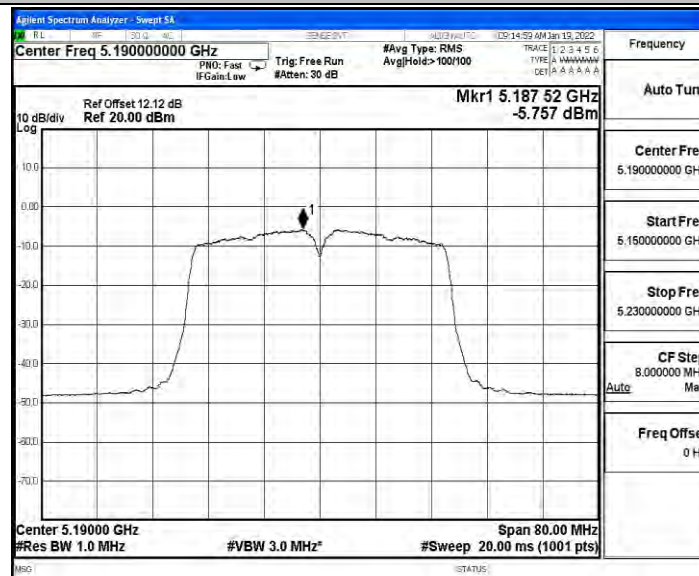




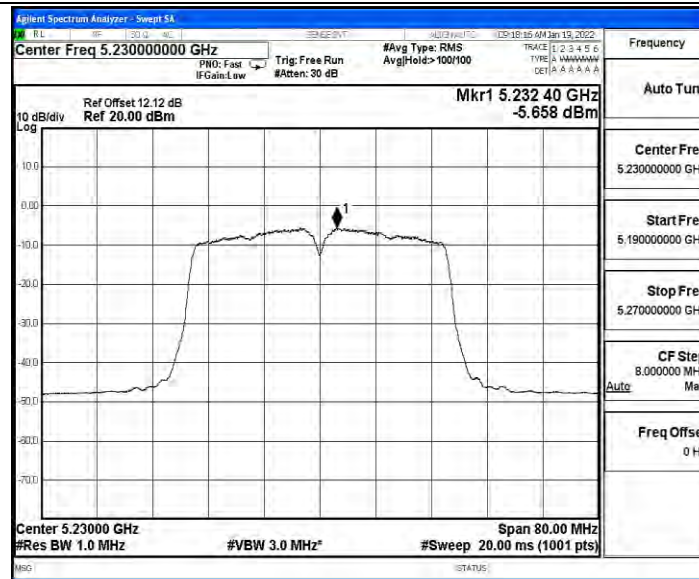
11N20SISO_Ant1_5240



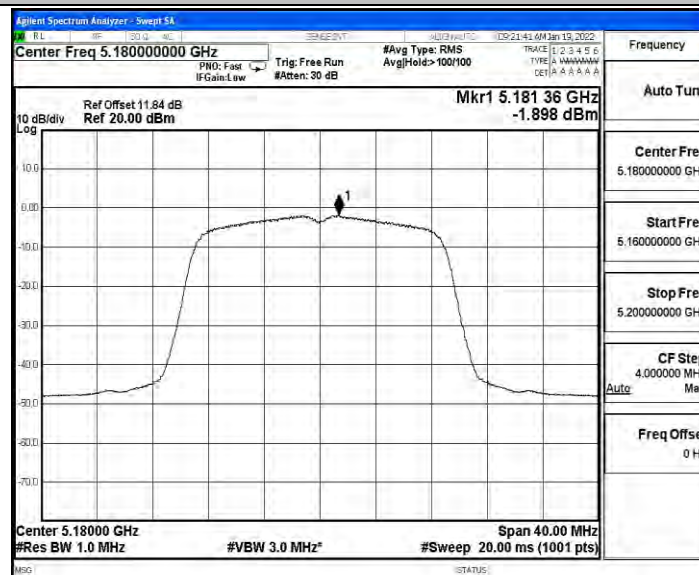
11N40SISO_Ant1_5190



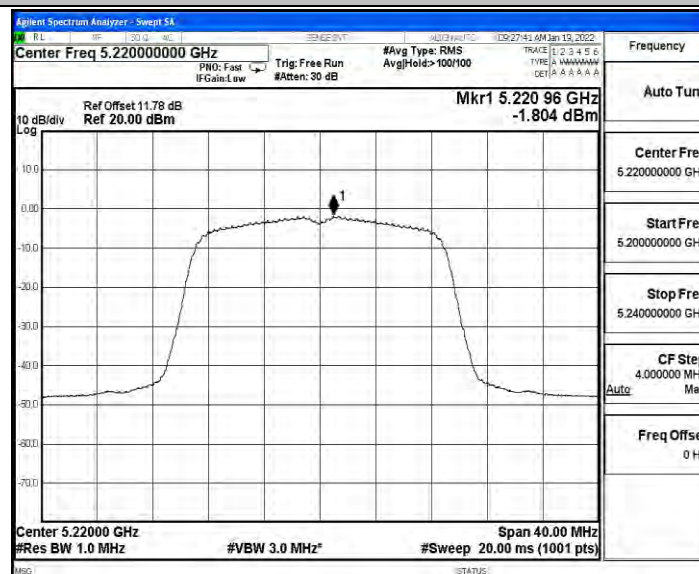
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

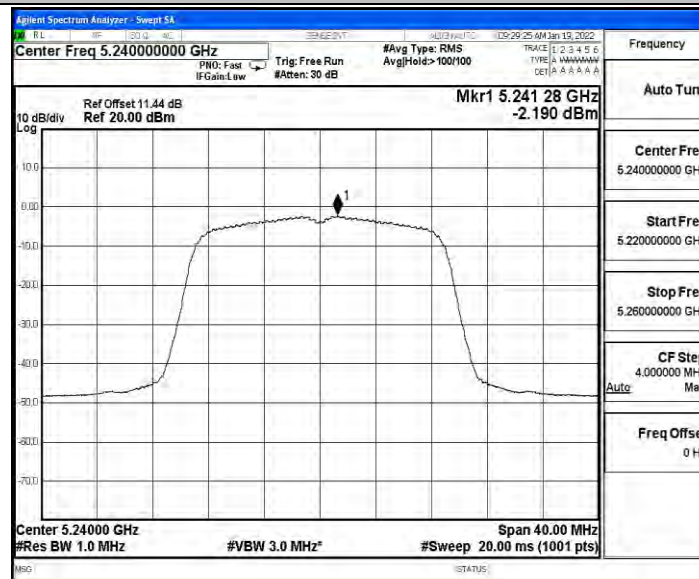


11AC20SISO_Ant1_5220

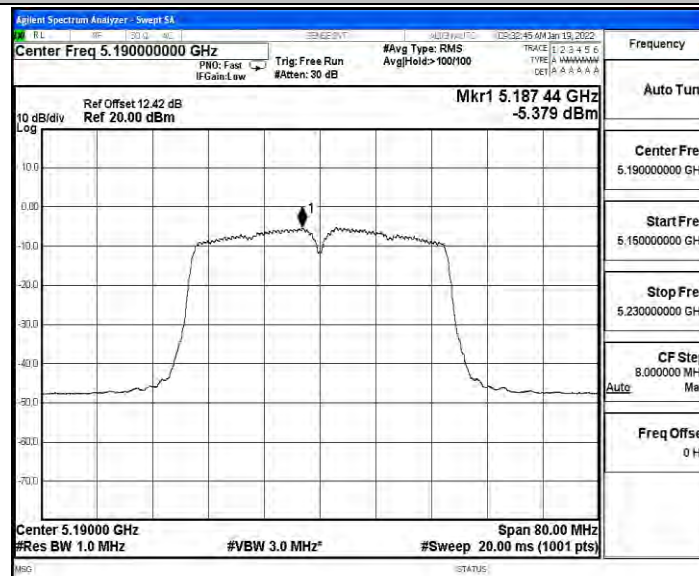




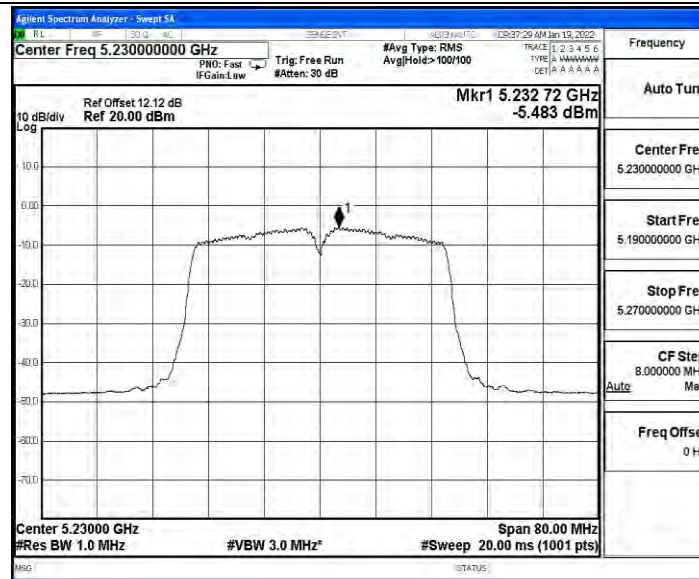
11AC20SISO_Ant1_5240



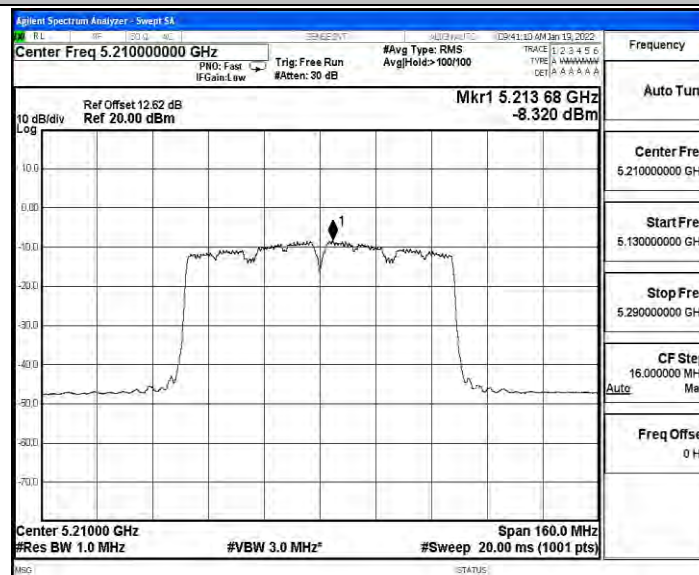
11AC40SISO_Ant1_5190



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	Ant0	Low	5180	AV	4500.000	-57.81	≤-41.20	37.39	≤54	PASS
				AV	5149.600	-52.23	≤-41.20	42.97	≤54	PASS
				AV	5150.000	-52.15	≤-41.20	43.05	≤54	PASS
				Peak	4500.000	-49.48	≤-21.20	45.72	≤68.2	PASS
				Peak	5132.100	-42.59	≤-21.20	52.61	≤68.2	PASS
				Peak	5150.000	-42.79	≤-21.20	52.41	≤68.2	PASS
		High	5240	AV	5350.000	-54.39	≤-41.20	40.81	≤54	PASS
				AV	5353.920	-54.28	≤-41.20	40.92	≤54	PASS
				AV	5460.000	-55.59	≤-41.20	39.61	≤54	PASS
				Peak	5350.000	-45.19	≤-21.20	50.01	≤68.2	PASS
				Peak	5458.320	-43.71	≤-21.20	51.49	≤68.2	PASS
				Peak	5460.000	-47.54	≤-21.20	47.66	≤68.2	PASS
11N20SIS O	Ant0	Low	5180	AV	4500.000	-57.74	≤-41.20	37.46	≤54	PASS
				AV	5149.600	-52.7	≤-41.20	42.50	≤54	PASS
				AV	5150.000	-52.7	≤-41.20	42.50	≤54	PASS
				Peak	4500.000	-48.75	≤-21.20	46.45	≤68.2	PASS
				Peak	5146.100	-39.4	≤-21.20	55.80	≤68.2	PASS
				Peak	5150.000	-44.25	≤-21.20	50.95	≤68.2	PASS
		High	5240	AV	5350.000	-54.15	≤-41.20	41.05	≤54	PASS
				AV	5350.320	-53.95	≤-41.20	41.25	≤54	PASS
				AV	5460.000	-55.47	≤-41.20	39.73	≤54	PASS
				Peak	5350.000	-46.08	≤-21.20	49.12	≤68.2	PASS
				Peak	5394.960	-44.06	≤-21.20	51.14	≤68.2	PASS
				Peak	5460.000	-46.64	≤-21.20	48.56	≤68.2	PASS
11N40SIS O	Ant0	Low	5190	AV	4500.000	-57.05	≤-41.20	38.15	≤54	PASS
				AV	5111.800	-51.94	≤-41.20	43.26	≤54	PASS
				AV	5150.000	-52.32	≤-41.20	42.88	≤54	PASS
				Peak	4500.000	-48.77	≤-21.20	46.43	≤68.2	PASS
				Peak	5144.700	-42.76	≤-21.20	52.44	≤68.2	PASS
				Peak	5150.000	-43.36	≤-21.20	51.84	≤68.2	PASS
		High	5230	AV	5350.000	-54.8	≤-41.20	40.40	≤54	PASS
				AV	5360.160	-53.37	≤-41.20	41.83	≤54	PASS
				AV	5460.000	-55.58	≤-41.20	39.62	≤54	PASS
				Peak	5350.000	-47.77	≤-21.20	47.43	≤68.2	PASS
				Peak	5406.960	-44.52	≤-21.20	50.68	≤68.2	PASS
				Peak	5460.000	-46.32	≤-21.20	48.88	≤68.2	PASS



11AC20SI SO	Ant0	Low	5180	AV	4500.000	-57.67	≤-41.20	37.53	≤54	PASS
				AV	5149.600	-52.29	≤-41.20	42.91	≤54	PASS
				AV	5150.000	-52.55	≤-41.20	42.65	≤54	PASS
				Peak	4500.000	-49.79	≤-21.20	45.41	≤68.2	PASS
				Peak	5141.900	-43.42	≤-21.20	51.78	≤68.2	PASS
				Peak	5150.000	-45.22	≤-21.20	49.98	≤68.2	PASS
		High	5240	AV	5350.000	-54.19	≤-41.20	41.01	≤54	PASS
				AV	5351.280	-53.71	≤-41.20	41.49	≤54	PASS
				AV	5460.000	-55.28	≤-41.20	39.92	≤54	PASS
				Peak	5350.000	-46.41	≤-21.20	48.79	≤68.2	PASS
				Peak	5393.760	-44.26	≤-21.20	50.94	≤68.2	PASS
				Peak	5460.000	-46.26	≤-21.20	48.94	≤68.2	PASS
11AC40SI SO	Ant0	Low	5190	AV	4500.000	-57.58	≤-41.20	37.62	≤54	PASS
				AV	5149.600	-51.05	≤-41.20	44.15	≤54	PASS
				AV	5150.000	-50.98	≤-41.20	44.22	≤54	PASS
				Peak	4500.000	-49.36	≤-21.20	45.84	≤68.2	PASS
				Peak	5148.900	-41.12	≤-21.20	54.08	≤68.2	PASS
				Peak	5150.000	-42.44	≤-21.20	52.76	≤68.2	PASS
		High	5230	AV	5350.000	-54.9	≤-41.20	40.30	≤54	PASS
				AV	5353.920	-55.04	≤-41.20	40.16	≤54	PASS
				AV	5460.000	-55.72	≤-41.20	39.48	≤54	PASS
				Peak	5350.000	-47.51	≤-21.20	47.69	≤68.2	PASS
				Peak	5451.940	-45.44	≤-21.20	49.76	≤68.2	PASS
				Peak	5460.000	-47.83	≤-21.20	47.37	≤68.2	PASS
11AC80SI SO	Ant0	Low	5210	AV	4500.000	-56.27	≤-41.20	38.93	≤54	PASS
				AV	5149.500	-41.89	≤-41.20	53.31	≤54	PASS
				AV	5150.000	-42.12	≤-41.20	53.08	≤54	PASS
				Peak	4500.000	-47.57	≤-21.20	47.63	≤68.2	PASS
				Peak	5109.750	-32.34	≤-21.20	62.86	≤68.2	PASS
				Peak	5150.000	-29.33	≤-21.20	65.87	≤68.2	PASS
		High	5210	AV	5350.000	-55.1	≤-41.20	40.10	≤54	PASS
				AV	5361.440	-54.55	≤-41.20	40.65	≤54	PASS
				AV	5460.000	-55.4	≤-41.20	39.80	≤54	PASS
				Peak	5350.000	-40.01	≤-21.20	55.19	≤68.2	PASS
				Peak	5352.200	-42.04	≤-21.20	53.16	≤68.2	PASS
				Peak	5460.000	-47.46	≤-21.20	47.74	≤68.2	PASS

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	-46.22	≤-41.20	48.98	≤54	PASS
				AV	4843.000	-43.65	≤-41.20	51.55	≤54	PASS
				AV	5150.000	-44.5	≤-41.20	50.70	≤54	PASS



				Peak	4500.000	-38.67	≤ -21.20	56.53	≤ 68.2	PASS
				Peak	4883.600	-34.37	≤ -21.20	60.83	≤ 68.2	PASS
				Peak	5150.000	-37.31	≤ -21.20	57.89	≤ 68.2	PASS
		High	5240	AV	5350.000	-45.39	≤ -41.20	49.81	≤ 54	PASS
				AV	5448.240	-44.78	≤ -41.20	50.42	≤ 54	PASS
				AV	5460.000	-45.64	≤ -41.20	49.56	≤ 54	PASS
				Peak	5350.000	-37.99	≤ -21.20	57.21	≤ 68.2	PASS
				Peak	5445.120	-35.42	≤ -21.20	59.78	≤ 68.2	PASS
				Peak	5460.000	-37.81	≤ -21.20	57.39	≤ 68.2	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-46	≤ -41.20	49.20	≤ 54	PASS
				AV	4806.600	-43.66	≤ -41.20	51.54	≤ 54	PASS
				AV	5150.000	-44.56	≤ -41.20	50.64	≤ 54	PASS
				Peak	4500.000	-38.3	≤ -21.20	56.90	≤ 68.2	PASS
				Peak	4908.100	-34.34	≤ -21.20	60.86	≤ 68.2	PASS
				Peak	5150.000	-37.71	≤ -21.20	57.49	≤ 68.2	PASS
		High	5240	AV	5350.000	-45.08	≤ -41.20	50.12	≤ 54	PASS
				AV	5458.320	-44.56	≤ -41.20	50.64	≤ 54	PASS
				AV	5460.000	-45.24	≤ -41.20	49.96	≤ 54	PASS
				Peak	5350.000	-38.22	≤ -21.20	56.98	≤ 68.2	PASS
				Peak	5356.320	-35.7	≤ -21.20	59.50	≤ 68.2	PASS
				Peak	5460.000	-38.73	≤ -21.20	56.47	≤ 68.2	PASS
11N40SIS O	Ant1	Low	5190	AV	4500.000	-46.34	≤ -41.20	48.86	≤ 54	PASS
				AV	4864.000	-43.7	≤ -41.20	51.50	≤ 54	PASS
				AV	5150.000	-44.19	≤ -41.20	51.01	≤ 54	PASS
				Peak	4500.000	-39.03	≤ -21.20	56.17	≤ 68.2	PASS
				Peak	4931.200	-34.76	≤ -21.20	60.44	≤ 68.2	PASS
				Peak	5150.000	-37.74	≤ -21.20	57.46	≤ 68.2	PASS
		High	5230	AV	5350.000	-44.86	≤ -41.20	50.34	≤ 54	PASS
				AV	5375.760	-43.88	≤ -41.20	51.32	≤ 54	PASS
				AV	5460.000	-44.65	≤ -41.20	50.55	≤ 54	PASS
				Peak	5350.000	-37.53	≤ -21.20	57.67	≤ 68.2	PASS
				Peak	5422.820	-35.53	≤ -21.20	59.67	≤ 68.2	PASS
				Peak	5460.000	-38.31	≤ -21.20	56.89	≤ 68.2	PASS
11AC20SI SO	Ant1	Low	5180	AV	4500.000	-47.06	≤ -41.20	48.14	≤ 54	PASS
				AV	4994.200	-44.08	≤ -41.20	51.12	≤ 54	PASS
				AV	5150.000	-44.87	≤ -41.20	50.33	≤ 54	PASS
				Peak	4500.000	-39.52	≤ -21.20	55.68	≤ 68.2	PASS
				Peak	4915.100	-34.87	≤ -21.20	60.33	≤ 68.2	PASS
				Peak	5150.000	-38.28	≤ -21.20	56.92	≤ 68.2	PASS
		High	5240	AV	5350.000	-45.29	≤ -41.20	49.91	≤ 54	PASS
				AV	5385.360	-44.43	≤ -41.20	50.77	≤ 54	PASS
				AV	5460.000	-44.91	≤ -41.20	50.29	≤ 54	PASS
				Peak	5350.000	-37.99	≤ -21.20	57.21	≤ 68.2	PASS



				Peak	5398.320	-35.85	≤ -21.20	59.35	≤ 68.2	PASS
				Peak	5460.000	-37.28	≤ -21.20	57.92	≤ 68.2	PASS
11AC40SI SO	Ant1	Low	5190	AV	4500.000	-45.83	≤ -41.20	49.37	≤ 54	PASS
				AV	4812.900	-43.71	≤ -41.20	51.49	≤ 54	PASS
				AV	5150.000	-44.66	≤ -41.20	50.54	≤ 54	PASS
				Peak	4500.000	-39.81	≤ -21.20	55.39	≤ 68.2	PASS
				Peak	4926.300	-34.13	≤ -21.20	61.07	≤ 68.2	PASS
				Peak	5150.000	-37.75	≤ -21.20	57.45	≤ 68.2	PASS
		High	5230	AV	5350.000	-44.41	≤ -41.20	50.79	≤ 54	PASS
				AV	5369.520	-43.61	≤ -41.20	51.59	≤ 54	PASS
				AV	5460.000	-44.83	≤ -41.20	50.37	≤ 54	PASS
				Peak	5350.000	-38.17	≤ -21.20	57.03	≤ 68.2	PASS
				Peak	5374.460	-35.6	≤ -21.20	59.60	≤ 68.2	PASS
				Peak	5460.000	-37.46	≤ -21.20	57.74	≤ 68.2	PASS
11AC80SI SO	Ant1	Low	5210	AV	4500.000	-45.79	≤ -41.20	49.41	≤ 54	PASS
				AV	4865.250	-42.63	≤ -41.20	52.57	≤ 54	PASS
				AV	5150.000	-43.64	≤ -41.20	51.56	≤ 54	PASS
				Peak	4500.000	-38.76	≤ -21.20	56.44	≤ 68.2	PASS
				Peak	4866.000	-34.85	≤ -21.20	60.35	≤ 68.2	PASS
				Peak	5150.000	-36.73	≤ -21.20	58.47	≤ 68.2	PASS
		High	5210	AV	5350.000	-44.01	≤ -41.20	51.19	≤ 54	PASS
				AV	5392.240	-42.79	≤ -41.20	52.41	≤ 54	PASS
				AV	5460.000	-44.36	≤ -41.20	50.84	≤ 54	PASS
				Peak	5350.000	-38.16	≤ -21.20	57.04	≤ 68.2	PASS
				Peak	5386.360	-35.58	≤ -21.20	59.62	≤ 68.2	PASS
				Peak	5460.000	-37.35	≤ -21.20	57.85	≤ 68.2	PASS



MIMO

TestMode	Channel	Detector	Freq. [MHz]	Ant0 [dBm]	Ant1 [dBm]	MIMO [dBm]	E [dBuV/m]	Limit [dBuV/m]	Verdict
11N20	5180	AV	4500.000	-57.74	-46	-45.72	49.51	≤54	PASS
		AV	5149.600	-52.7	-43.66	-43.15	52.08	≤54	PASS
		AV	5150.000	-52.7	-44.56	-43.94	51.29	≤54	PASS
		Peak	4500.000	-48.75	-38.3	-37.93	57.30	≤68.2	PASS
		Peak	5052.300	-39.4	-34.34	-33.16	62.07	≤68.2	PASS
		Peak	5150.000	-44.25	-37.71	-36.84	58.39	≤68.2	PASS
	5240	AV	5350.000	-54.15	-45.08	-44.57	50.66	≤54	PASS
		AV	5403.600	-53.95	-44.56	-44.09	51.14	≤54	PASS
		AV	5460.000	-55.47	-45.24	-44.85	50.38	≤54	PASS
		Peak	5350.000	-46.08	-38.22	-37.56	57.67	≤68.2	PASS
		Peak	5374.560	-44.06	-35.7	-35.11	60.12	≤68.2	PASS
		Peak	5460.000	-46.64	-38.73	-38.08	57.15	≤68.2	PASS
11N40	5190	AV	4500.000	-57.05	-46.34	-45.99	49.24	≤54	PASS
		AV	5149.600	-51.94	-43.7	-43.09	52.14	≤54	PASS
		AV	5150.000	-52.32	-44.19	-43.57	51.66	≤54	PASS
		Peak	4500.000	-48.77	-39.03	-38.59	56.64	≤68.2	PASS
		Peak	5149.600	-42.76	-34.76	-34.12	61.11	≤68.2	PASS
		Peak	5150.000	-43.36	-37.74	-36.69	58.54	≤68.2	PASS
	5230	AV	5350.000	-54.8	-44.86	-44.44	50.79	≤54	PASS
		AV	5381.740	-53.37	-43.88	-43.42	51.81	≤54	PASS
		AV	5460.000	-55.58	-44.65	-44.31	50.92	≤54	PASS
		Peak	5350.000	-47.77	-37.53	-37.14	58.09	≤68.2	PASS
		Peak	5393.440	-44.52	-35.53	-35.01	60.22	≤68.2	PASS
		Peak	5460.000	-46.32	-38.31	-37.67	57.56	≤68.2	PASS
11AC20	5180	AV	4500.000	-57.67	-47.06	-46.70	48.53	≤54	PASS
		AV	5149.600	-52.29	-44.08	-43.47	51.76	≤54	PASS
		AV	5150.000	-52.55	-44.87	-44.19	51.04	≤54	PASS
		Peak	4500.000	-49.79	-39.52	-39.13	56.10	≤68.2	PASS
		Peak	5138.400	-43.42	-34.87	-34.30	60.93	≤68.2	PASS
		Peak	5150.000	-45.22	-38.28	-37.48	57.75	≤68.2	PASS
	5240	AV	5350.000	-54.19	-45.29	-44.76	50.47	≤54	PASS
		AV	5394.480	-53.71	-44.43	-43.95	51.28	≤54	PASS
		AV	5460.000	-55.28	-44.91	-44.53	50.70	≤54	PASS
		Peak	5350.000	-46.41	-37.99	-37.41	57.82	≤68.2	PASS
		Peak	5414.400	-44.26	-35.85	-35.26	59.97	≤68.2	PASS
		Peak	5460.000	-46.26	-37.28	-36.76	58.47	≤68.2	PASS
11AC40	5190	AV	4500.000	-57.58	-45.83	-45.55	49.68	≤54	PASS
		AV	5149.600	-51.05	-43.71	-42.97	52.26	≤54	PASS
		AV	5150.000	-50.98	-44.66	-43.75	51.48	≤54	PASS
		Peak	4500.000	-49.36	-39.81	-39.35	55.88	≤68.2	PASS



		Peak	5148.900	-41.12	-34.13	-33.34	61.89	≤68.2	PASS
		Peak	5150.000	-42.44	-37.75	-36.48	58.75	≤68.2	PASS
	5230	AV	5350.000	-54.9	-44.41	-44.04	51.19	≤54	PASS
		AV	5386.420	-55.04	-43.61	-43.31	51.92	≤54	PASS
		AV	5460.000	-55.72	-44.83	-44.49	50.74	≤54	PASS
		Peak	5350.000	-47.51	-38.17	-37.69	57.54	≤68.2	PASS
		Peak	5362.240	-45.44	-35.6	-35.17	60.06	≤68.2	PASS
		Peak	5460.000	-47.83	-37.46	-37.08	58.15	≤68.2	PASS
11AC80	5210	AV	4500.000	-56.27	-45.79	-45.42	49.81	≤54	PASS
		AV	5148.750	-45.21	-44.31	-41.43	53.80	≤54	PASS
		AV	5150.000	-44.12	-44.63	-41.36	53.87	≤54	PASS
		Peak	4500.000	-47.57	-38.76	-38.22	57.01	≤68.2	PASS
		Peak	5148.750	-32.34	-34.85	-30.41	64.82	≤68.2	PASS
		Peak	5150.000	-29.33	-36.73	-28.60	66.63	≤68.2	PASS
	5210	AV	5350.000	-55.1	-44.01	-43.68	51.55	≤54	PASS
		AV	5386.920	-54.55	-42.79	-42.51	52.72	≤54	PASS
		AV	5460.000	-55.4	-44.36	-44.03	51.20	≤54	PASS
		Peak	5350.000	-40.01	-38.16	-35.98	59.25	≤68.2	PASS
		Peak	5403.160	-42.04	-35.58	-34.70	60.53	≤68.2	PASS
		Peak	5460.000	-47.46	-37.35	-36.95	58.28	≤68.2	PASS

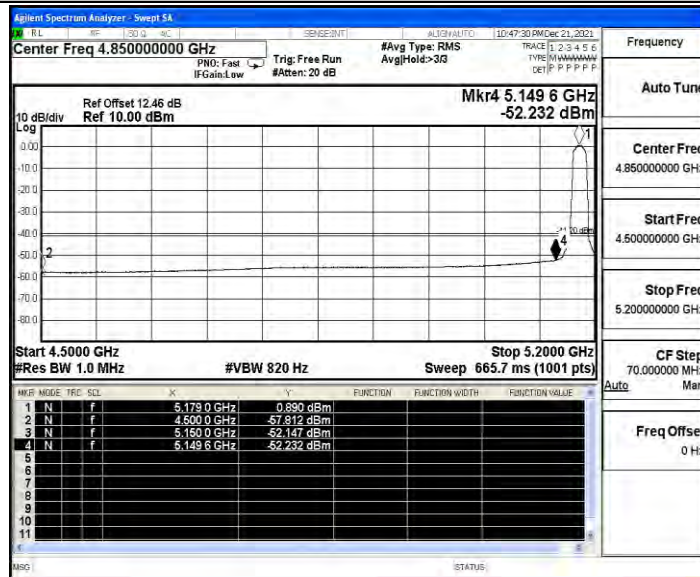
Note:

1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5250GHz 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.

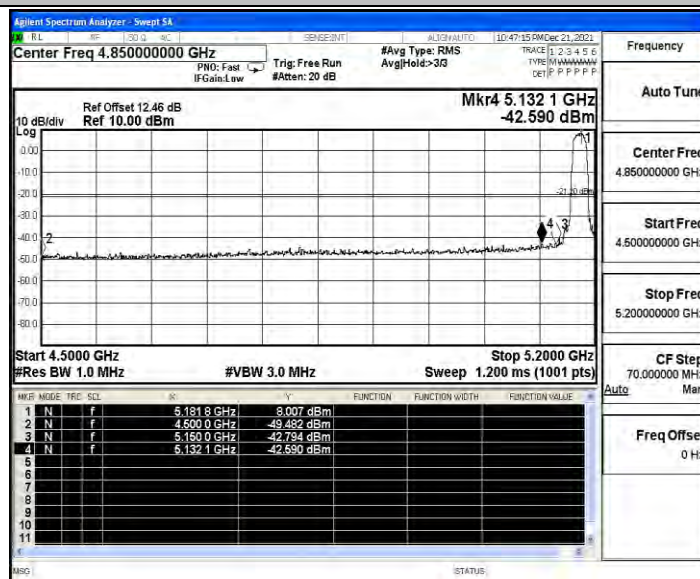


Test Graphs

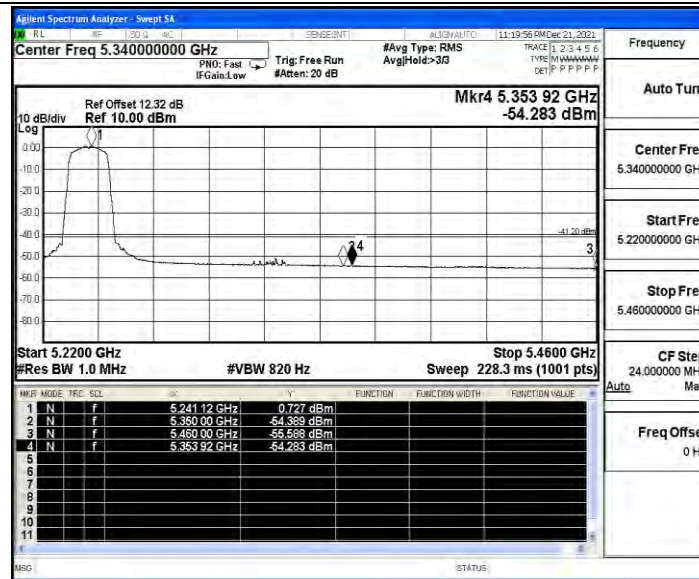
11A_Ant0_Low_5180_AV



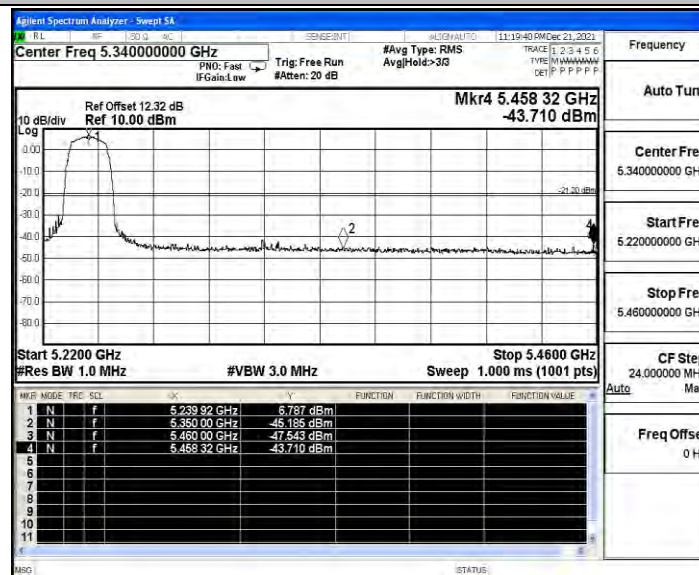
11A_Ant0_Low_5180_Peak



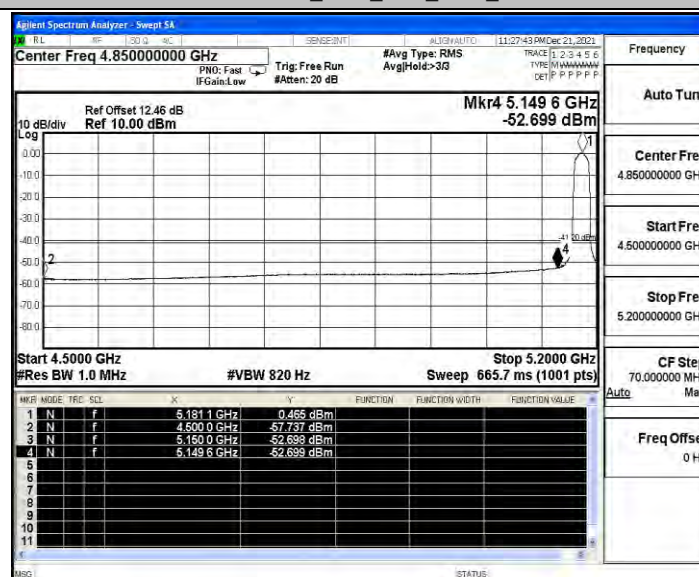
11A_Ant0_High_5240_AV



11A_Ant0_High_5240_Peak

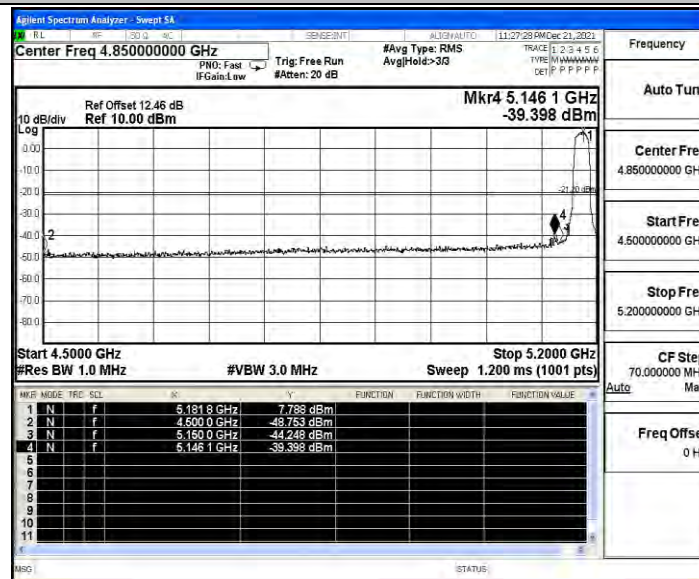


11N20SISO_Ant0_Low_5180_AV

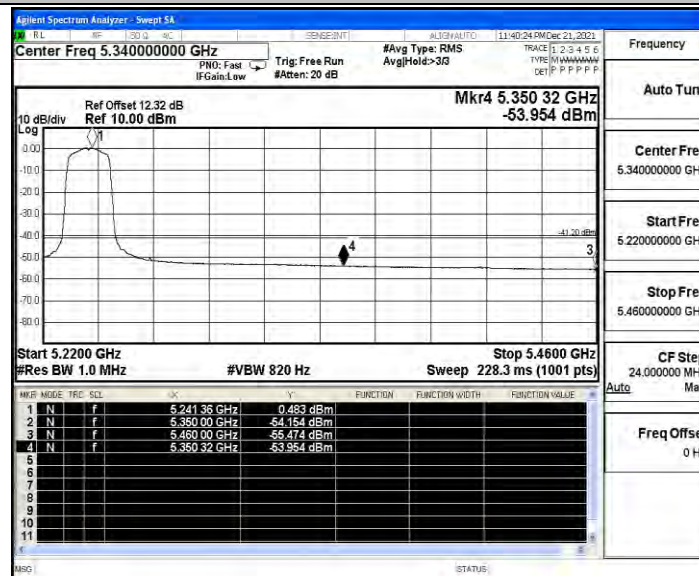




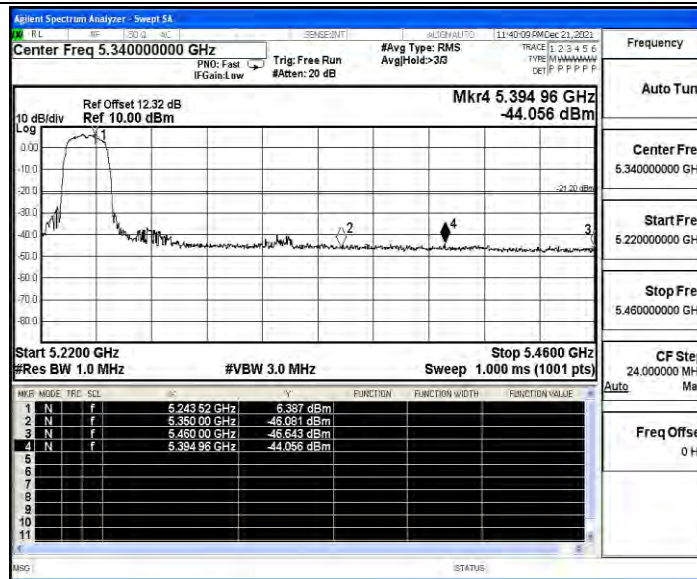
11N20SISO_Ant0_Low_5180_Peak



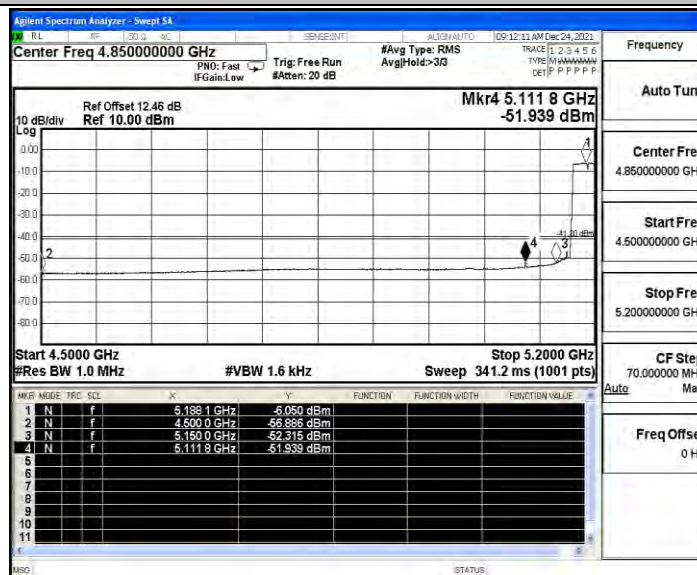
11N20SISO_Ant0_High_5240_AV



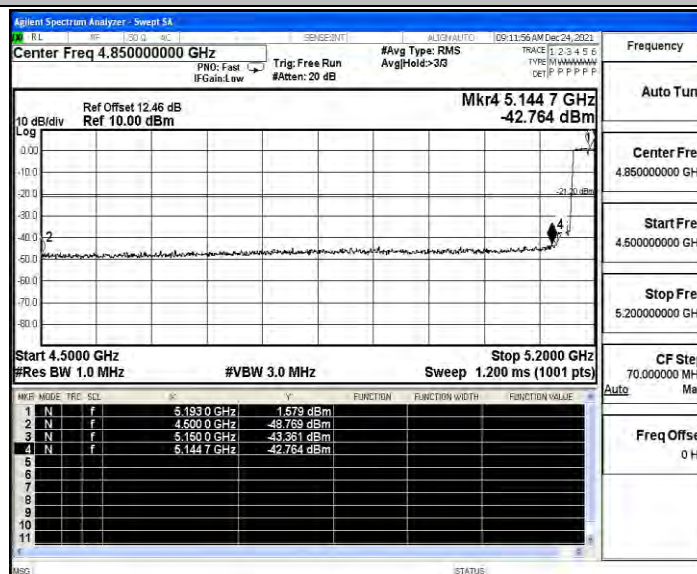
11N20SISO_Ant0_High_5240_Peak



11N40SISO_Ant0_Low_5190_AV

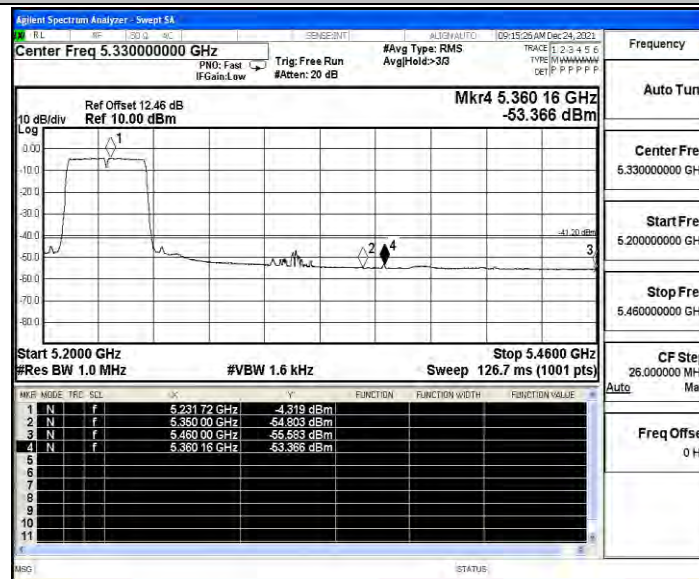


11N40SISO_Ant0_Low_5190_Peak

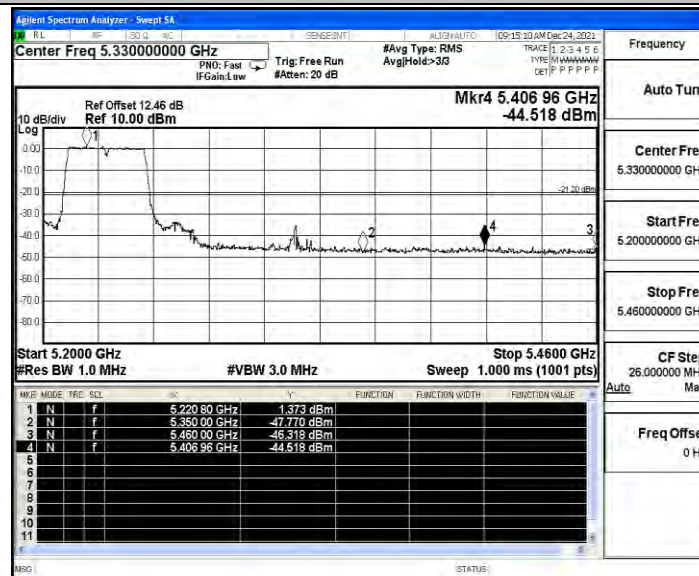




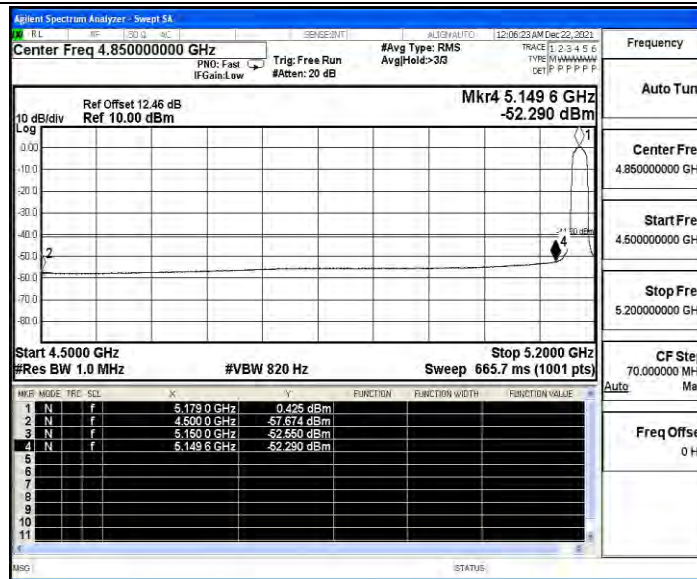
11N40SISO_Ant0_High_5230_AV



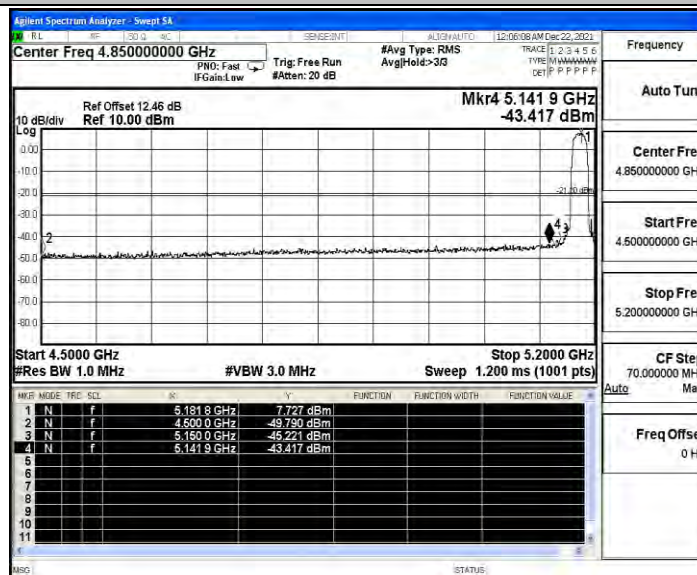
11N40SISO_Ant0_High_5230_Peak



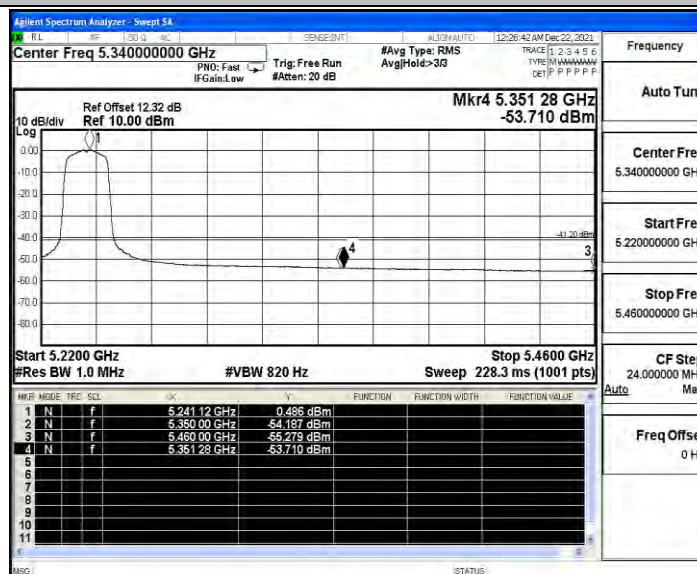
11AC20SISO_Ant0_Low_5180_AV



11AC20SISO_Ant0_Low_5180_Peak

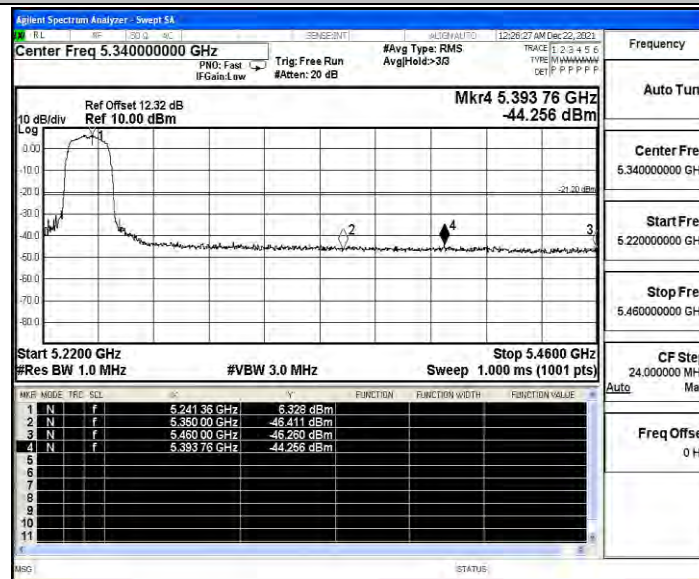


11AC20SISO_Ant0_High_5240_AV

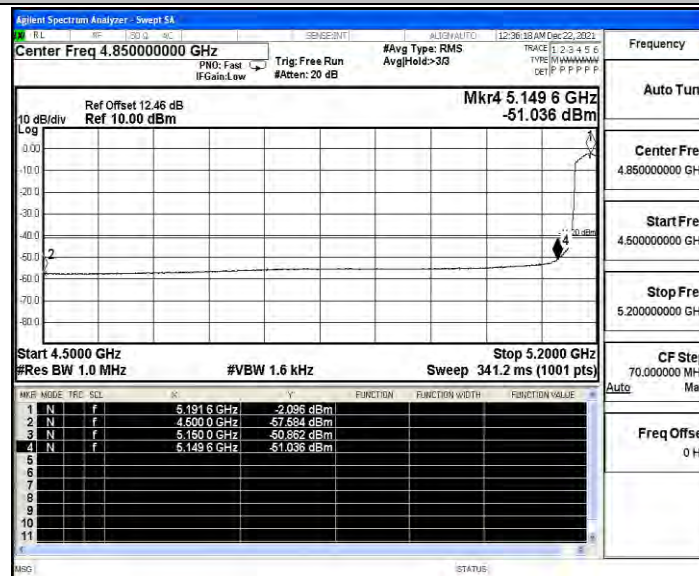




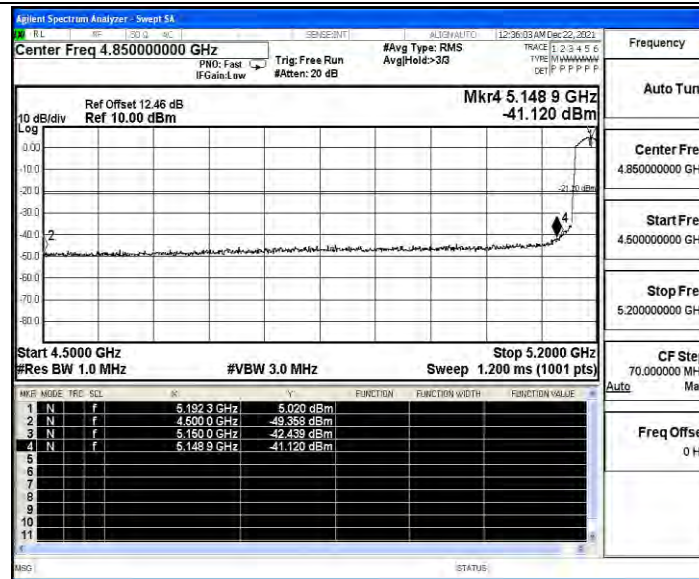
11AC20SISO_Ant0_High_5240_Peak



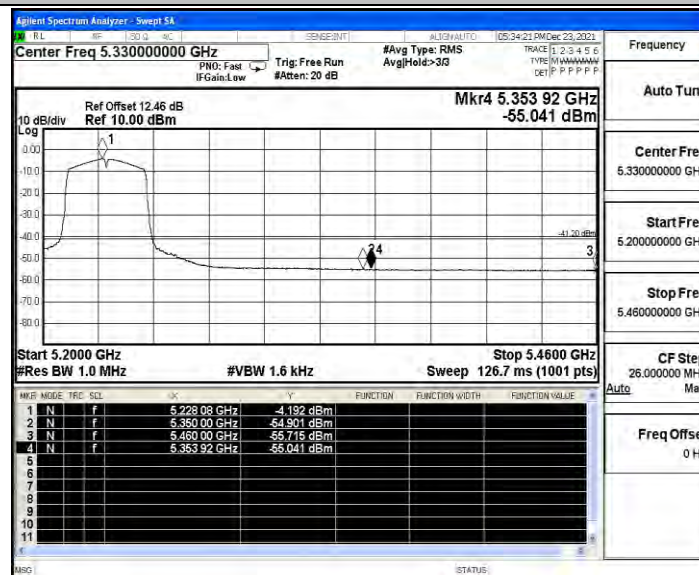
11AC40SISO_Ant0_Low_5190_AV



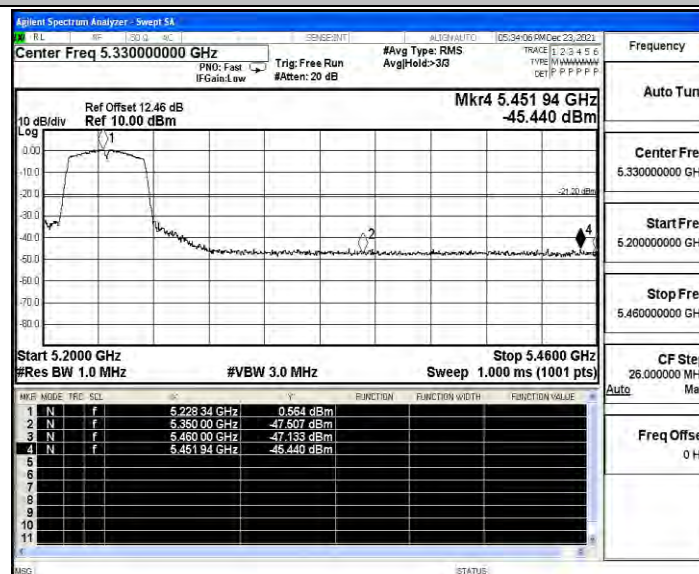
11AC40SISO_Ant0_Low_5190_Peak



11AC40SISO_Ant0_High_5230_AV

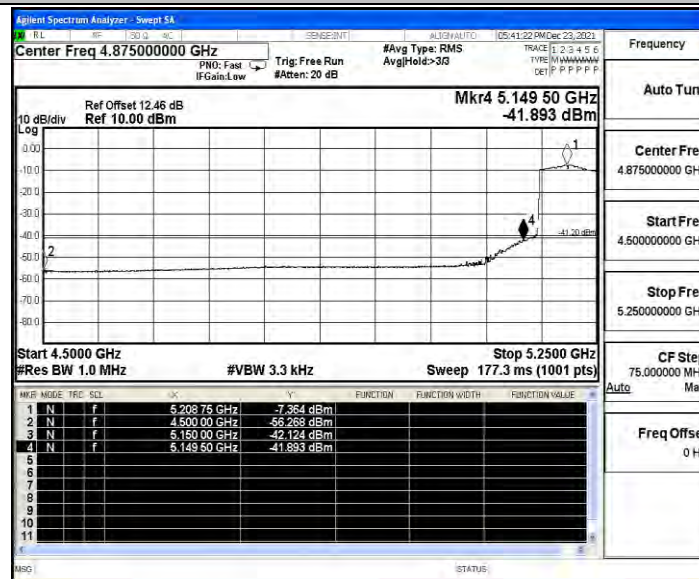


11AC40SISO_Ant0_High_5230_Peak

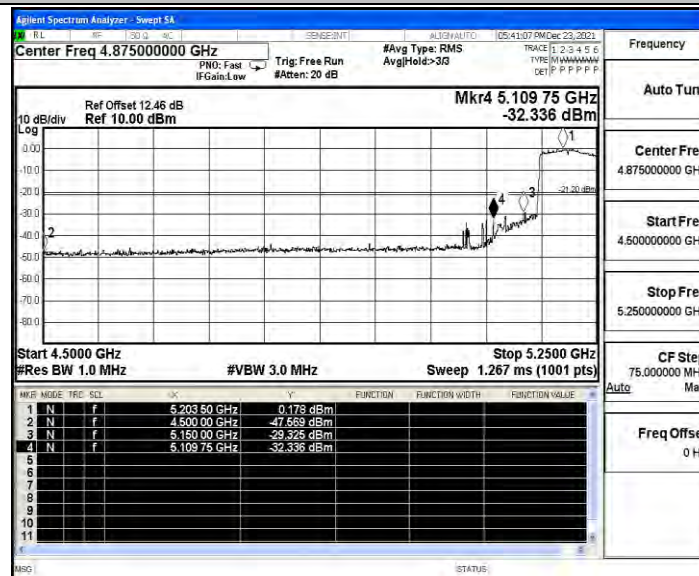




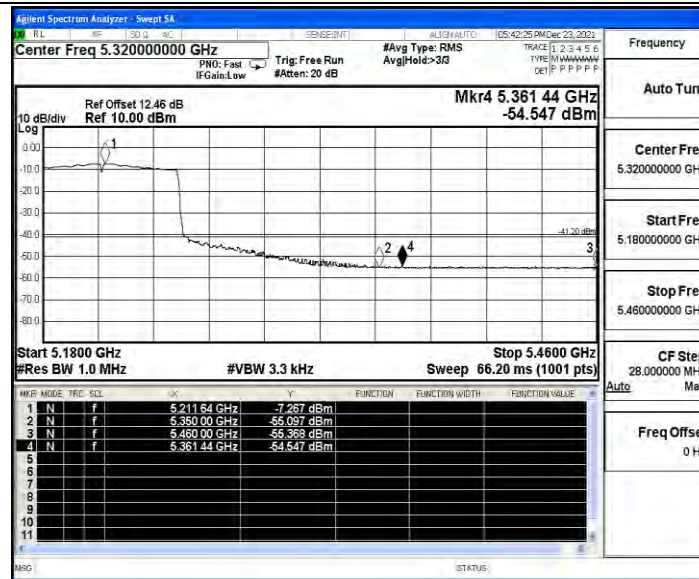
11AC80SISO_Ant0_Low_5210_AV



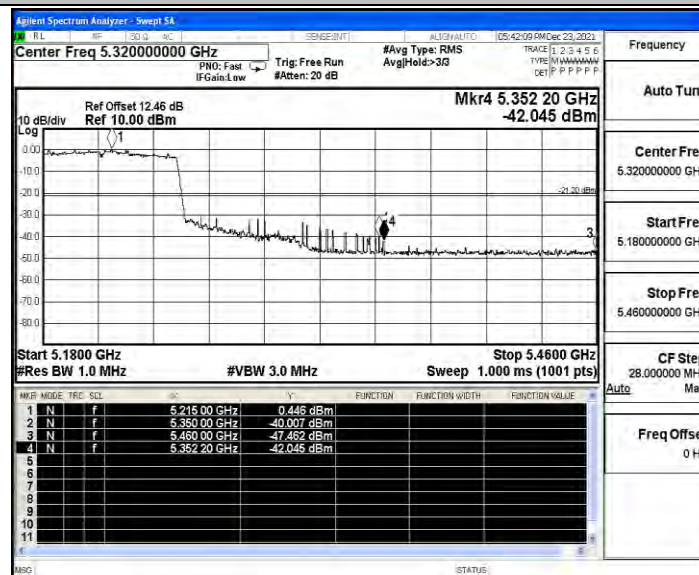
11AC80SISO_Ant0_Low_5210_Peak



11AC80SISO_Ant0_High_5210_AV



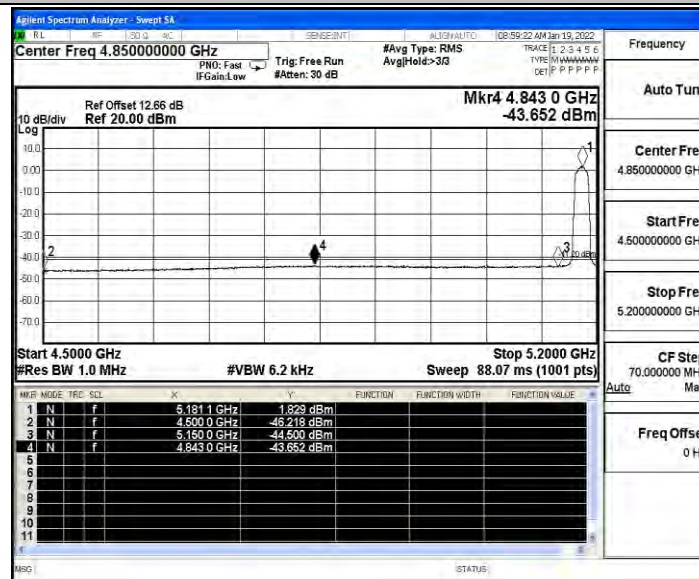
11AC80SISO_Ant0_High_5210_Peak



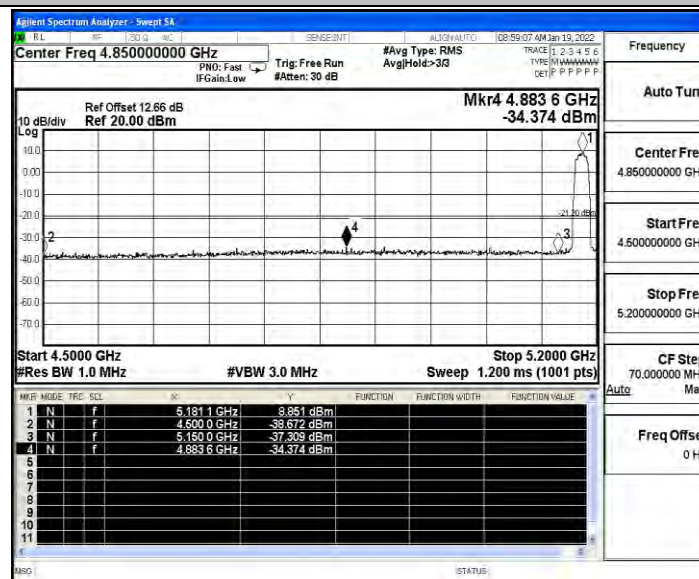


Test Graphs

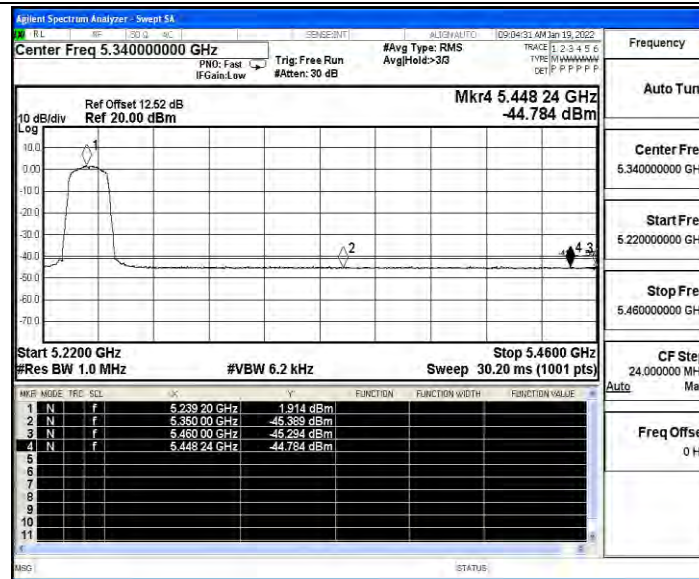
11A_Ant1_Low_5180_AV



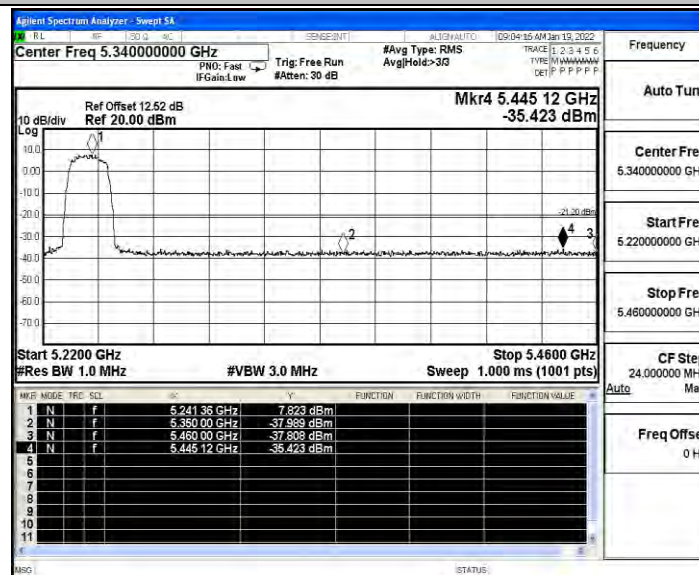
11A_Ant1_Low_5180_Peak



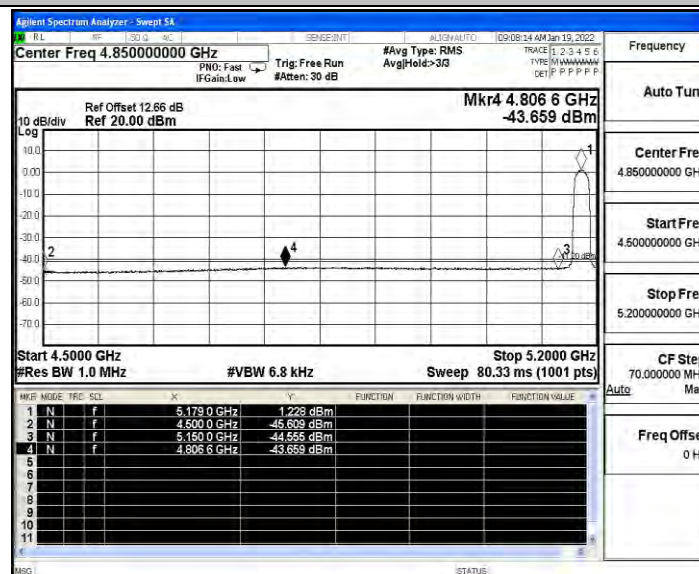
11A_Ant1_High_5240_AV



11A_Ant1_High_5240_Peak

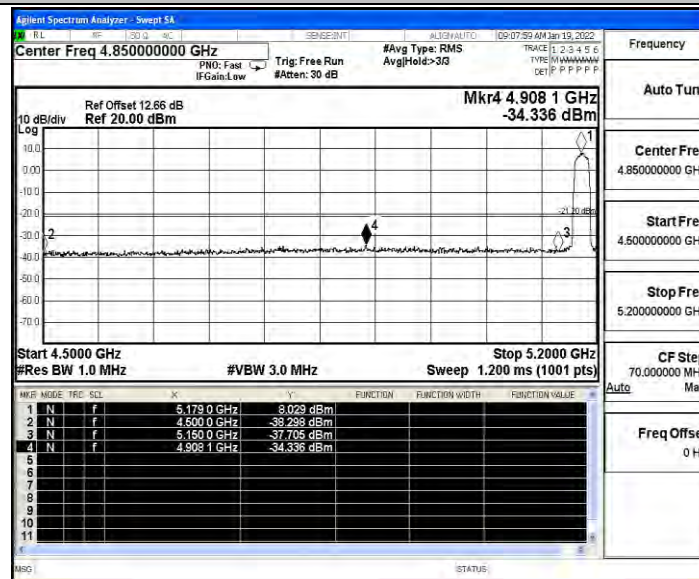


11N20SISO_Ant1_Low_5180_AV

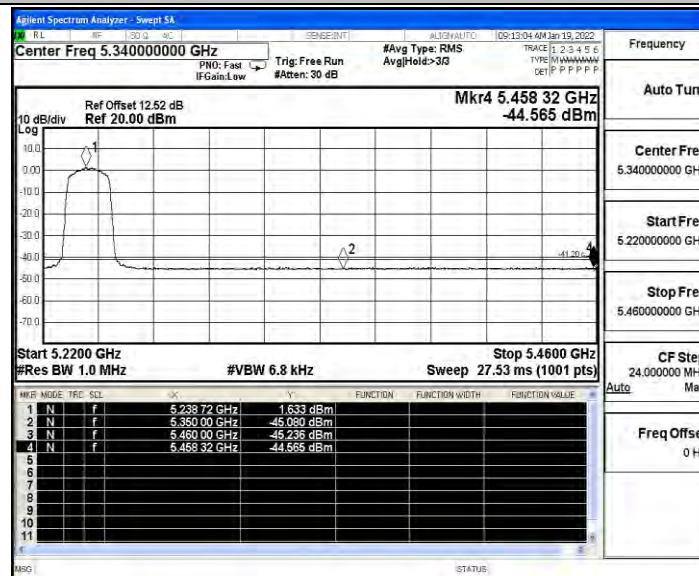




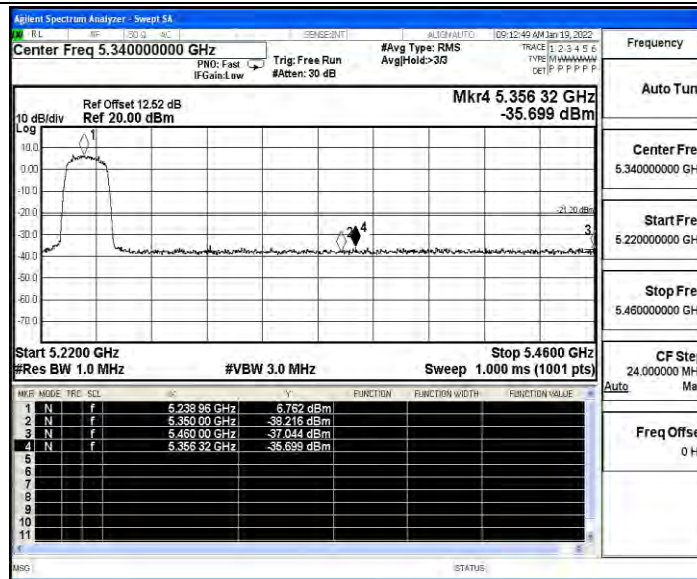
11N20SISO_Ant1_Low_5180_Peak



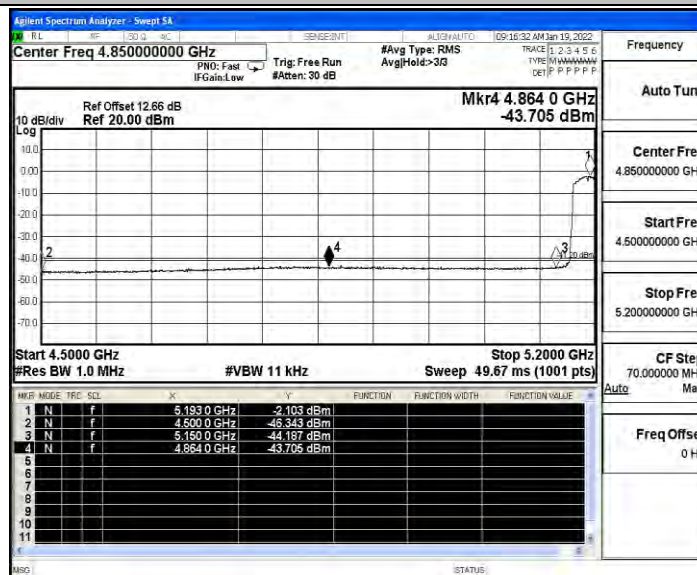
11N20SISO_Ant1_High_5240_AV



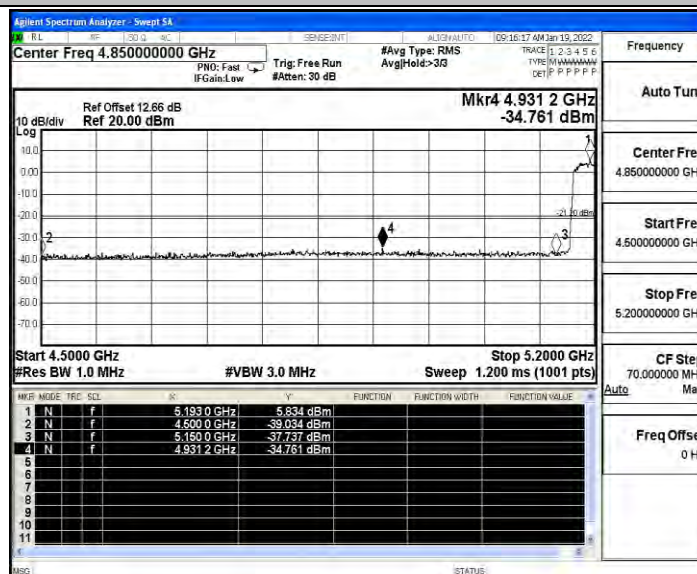
11N20SISO_Ant1_High_5240_Peak



11N40SISO_Ant1_Low_5190_AV

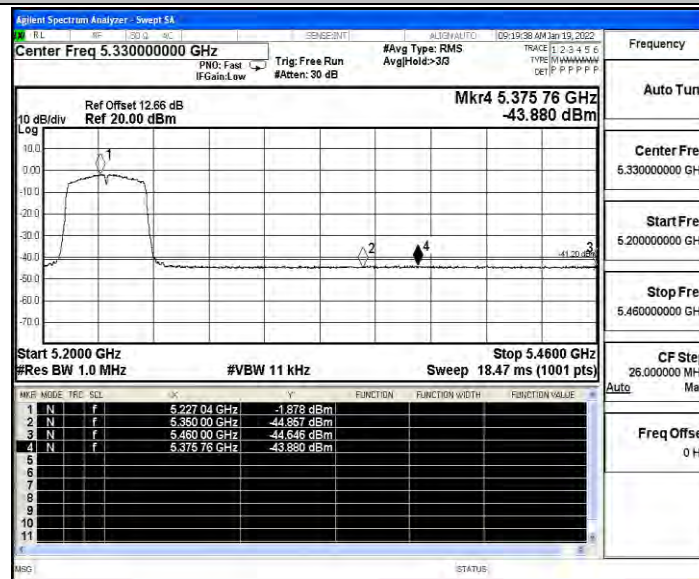


11N40SISO_Ant1_Low_5190_Peak

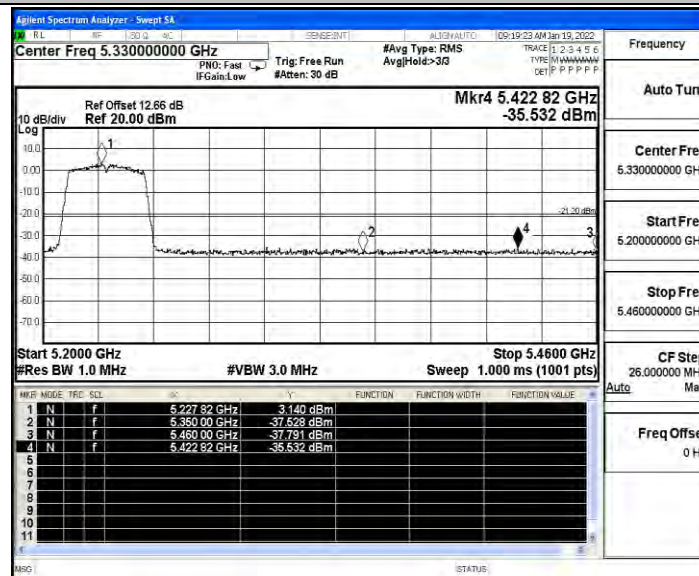




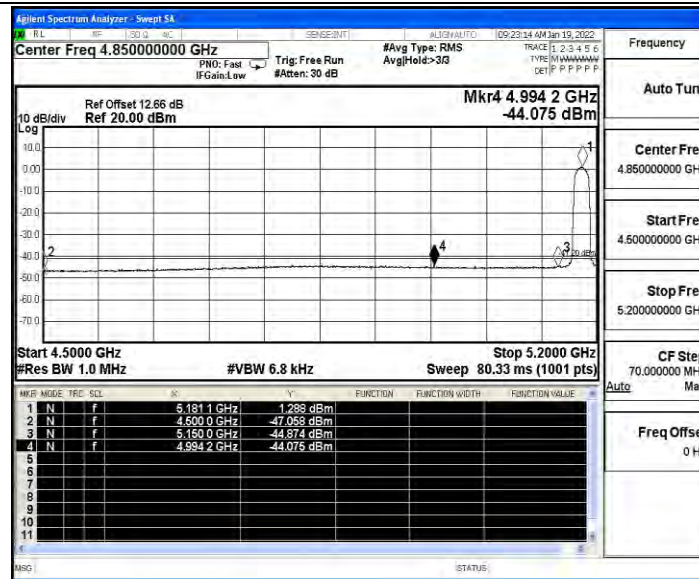
11N40SISO_Ant1_High_5230_AV



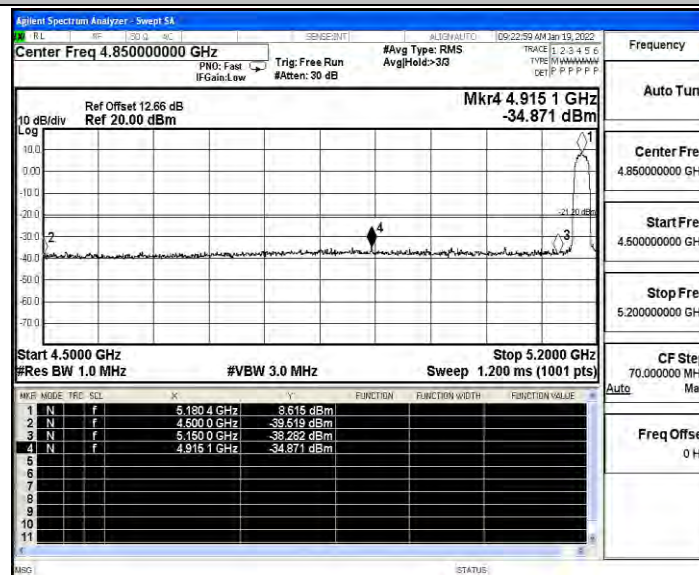
11N40SISO_Ant1_High_5230_Peak



11AC20SISO_Ant1_Low_5180_AV



11AC20SISO_Ant1_Low_5180_Peak

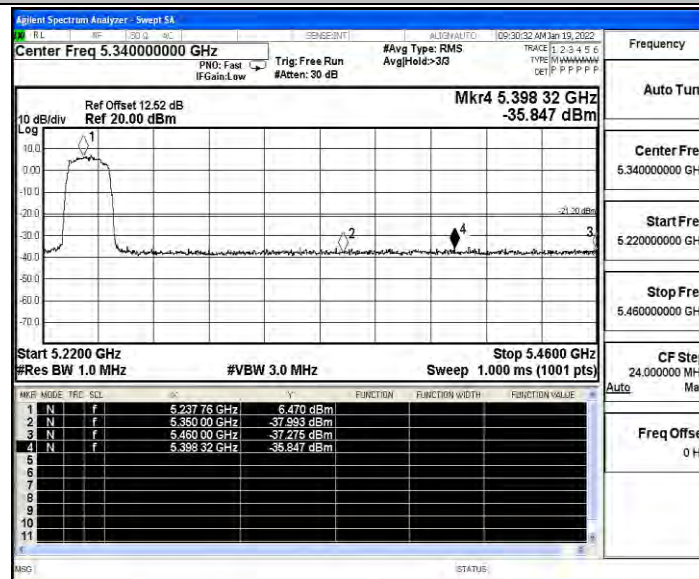


11AC20SISO_Ant1_High_5240_AV

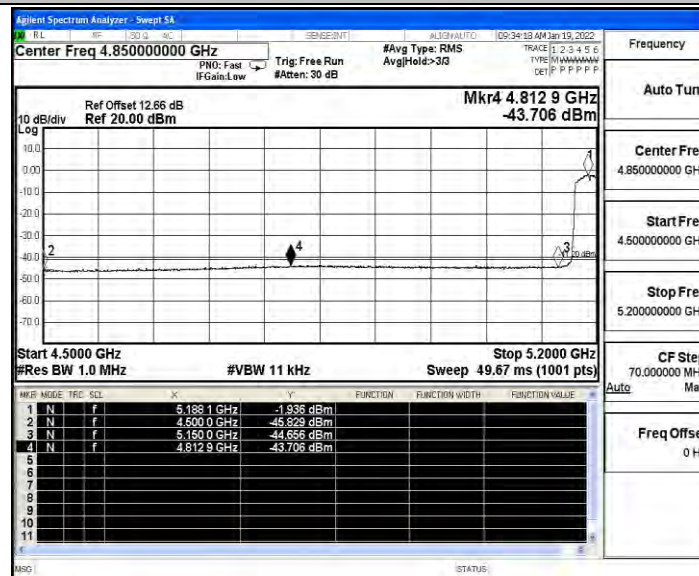




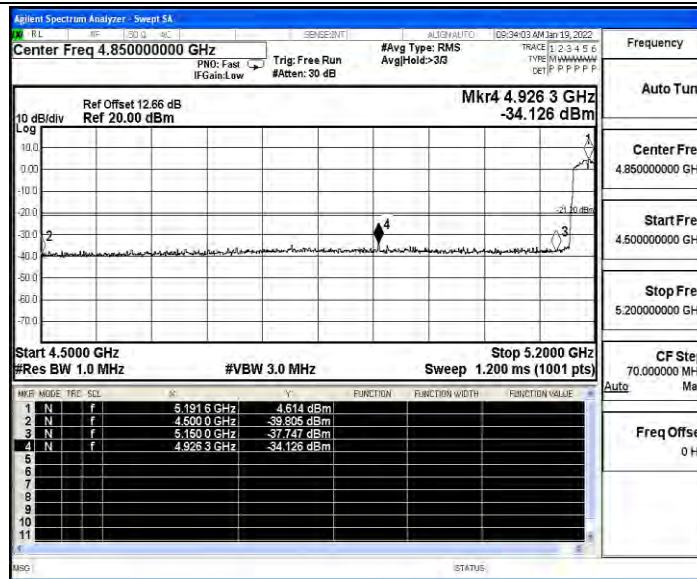
11AC20SISO_Ant1_High_5240_Peak



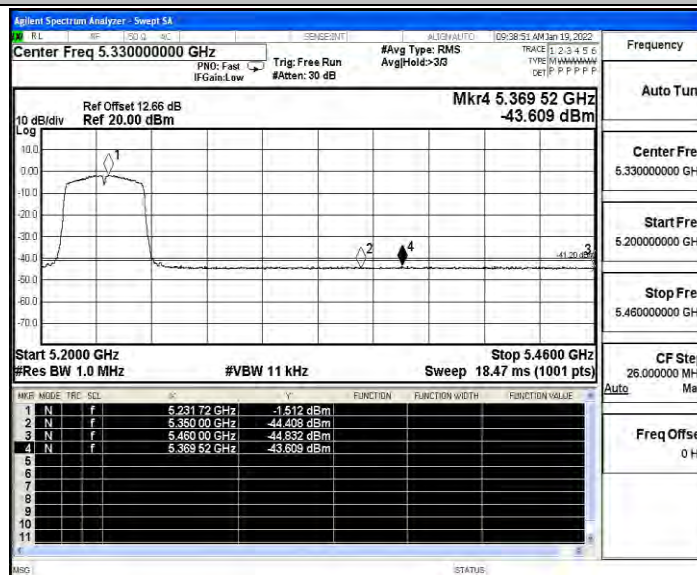
11AC40SISO_Ant1_Low_5190_AV



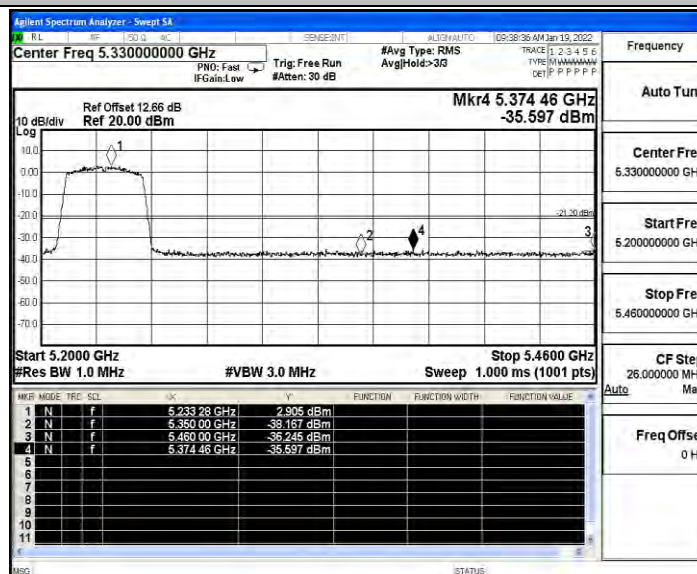
11AC40SISO_Ant1_Low_5190_Peak



11AC40SISO_Ant1_High_5230_AV

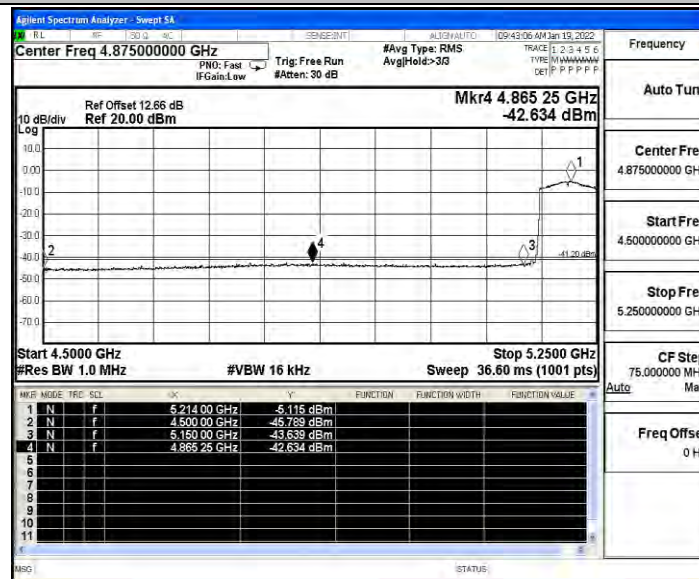


11AC40SISO_Ant1_High_5230_Peak

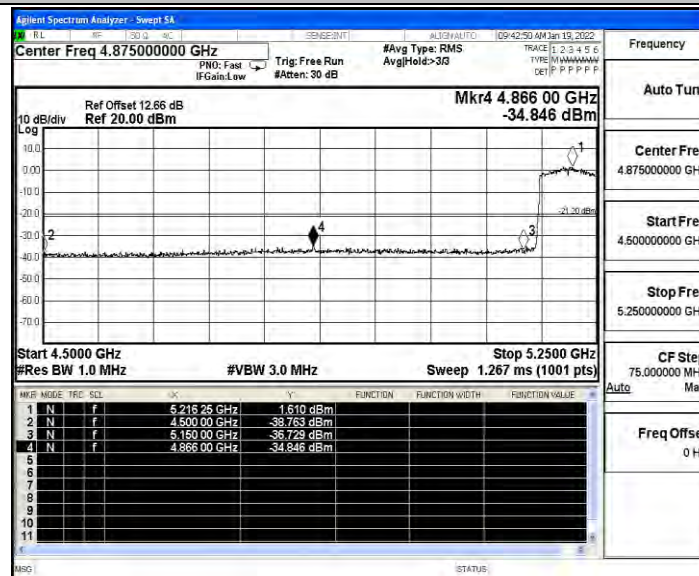




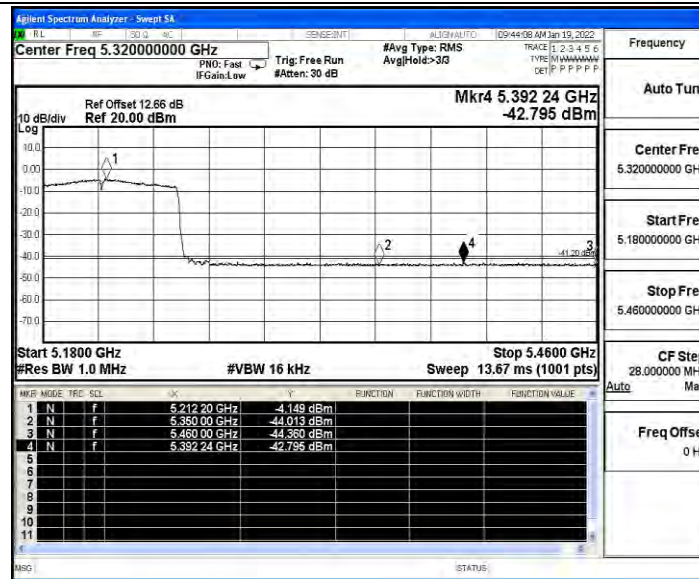
11AC80SISO_Ant1_Low_5210_AV



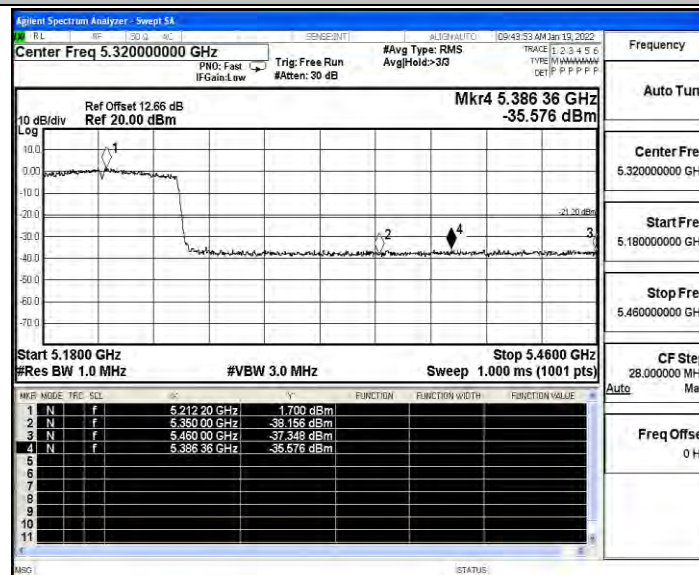
11AC80SISO_Ant1_Low_5210_Peak



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
11A	Ant0	5180	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
		5220	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	-20000	-3.831418	20	PASS
		5240	NV	NT	-20000	-3.816794	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	-20000	-3.816794	20	PASS
11N20SISO	Ant0	5180	NV	NT	-20000	-3.861004	20	PASS
			LV	NT	-20000	-3.861004	20	PASS
			HV	NT	-20000	-3.861004	20	PASS
		5220	NV	NT	-20000	-3.831418	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	20000	3.831418	20	PASS
		5240	NV	NT	-20000	-3.816794	20	PASS
			LV	NT	-20000	-3.816794	20	PASS
			HV	NT	-20000	-3.816794	20	PASS
11N40SISO	Ant0	5190	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
		5230	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS
11AC20SISO	Ant0	5180	NV	NT	3000	0.579151	20	PASS
			LV	NT	3000	0.579151	20	PASS
			HV	NT	2000	0.3861	20	PASS
		5220	NV	NT	-5000	-0.957854	20	PASS
			LV	NT	-5000	-0.957854	20	PASS
			HV	NT	-5000	-0.957854	20	PASS
		5240	NV	NT	-7000	-1.335878	20	PASS
			LV	NT	-8000	-1.526718	20	PASS
			HV	NT	-8000	-1.526718	20	PASS
11AC40SISO	Ant0	5190	NV	NT	0	0	20	PASS
			LV	NT	-40000	-7.707129	20	PASS



			HV	NT	0	0	20	PASS
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Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant0	5180	NV	-30	-20000	-3.861004	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	-20000	-3.861004	20	PASS
			NV	0	-20000	-3.861004	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS
			NV	40	-20000	-3.861004	20	PASS
			NV	50	-20000	-3.861004	20	PASS
		5220	NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	-20000	-3.831418	20	PASS
			NV	0	0	0	20	PASS
			NV	10	-20000	-3.831418	20	PASS
			NV	20	-20000	-3.831418	20	PASS
			NV	30	-20000	-3.831418	20	PASS
			NV	40	-20000	-3.831418	20	PASS
			NV	50	0	0	20	PASS
		5240	NV	-30	-20000	-3.816794	20	PASS
			NV	-20	-20000	-3.816794	20	PASS
			NV	-10	-20000	-3.816794	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS
			NV	40	-20000	-3.816794	20	PASS
			NV	50	0	0	20	PASS
11N20SISO	Ant0	5180	NV	-30	20000	3.861004	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS
			NV	40	0	0	20	PASS
			NV	50	-20000	-3.861004	20	PASS
		5220	NV	-30	20000	3.831418	20	PASS
			NV	-20	0	0	20	PASS



			NV	-10	0	0	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	-40000	-7.662835	20	PASS
			NV	30	0	0	20	PASS
			NV	40	-20000	-3.831418	20	PASS
			NV	50	-20000	-3.831418	20	PASS
		5240	NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	-20000	-3.816794	20	PASS
			NV	40	0	0	20	PASS
			NV	50	-20000	-3.816794	20	PASS
11N40SISO	Ant0	5190	NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS
			NV	40	0	0	20	PASS
			NV	50	0	0	20	PASS
		5230	NV	-30	0	0	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS
			NV	40	0	0	20	PASS
			NV	50	0	0	20	PASS
11AC20SISO	Ant0	5180	NV	-30	1000	0.19305	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	-1000	-0.19305	20	PASS
			NV	0	-2000	-0.3861	20	PASS
			NV	10	-3000	-0.579151	20	PASS
			NV	20	-3000	-0.579151	20	PASS
			NV	30	-4000	-0.772201	20	PASS
			NV	40	-4000	-0.772201	20	PASS
			NV	50	-4000	-0.772201	20	PASS



		5220	NV	-30	-6000	-1.149425	20	PASS
			NV	-20	-6000	-1.149425	20	PASS
			NV	-10	-6000	-1.149425	20	PASS
			NV	0	-7000	-1.340996	20	PASS
			NV	10	-7000	-1.340996	20	PASS
			NV	20	-7000	-1.340996	20	PASS
			NV	30	-7000	-1.340996	20	PASS
			NV	40	-7000	-1.340996	20	PASS
			NV	50	-8000	-1.532567	20	PASS
		5240	NV	-30	-8000	-1.526718	20	PASS
			NV	-20	-9000	-1.717557	20	PASS
			NV	-10	-9000	-1.717557	20	PASS
			NV	0	-9000	-1.717557	20	PASS
			NV	10	-9000	-1.717557	20	PASS
			NV	20	-9000	-1.717557	20	PASS
			NV	30	-9000	-1.717557	20	PASS
			NV	40	-9000	-1.717557	20	PASS
			NV	50	-9000	-1.717557	20	PASS
11AC40SIS O	Ant0	5190	NV	-30	-40000	-7.707129	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	-40000	-7.707129	20	PASS
			NV	10	-40000	-7.707129	20	PASS
			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS
			NV	40	0	0	20	PASS
			NV	50	-40000	-7.707129	20	PASS

**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	1000	0.19305	20	PASS
			HV	NT	0	0	20	PASS
		5220	NV	NT	-5000	-0.957854	20	PASS
			LV	NT	-5000	-0.957854	20	PASS
			HV	NT	-5000	-0.957854	20	PASS
		5240	NV	NT	-7000	-1.335878	20	PASS
			LV	NT	-7000	-1.335878	20	PASS
			HV	NT	-7000	-1.335878	20	PASS
11AC40SISO	Ant1	5190	NV	NT	-8000	-1.541426	20	PASS
			LV	NT	-8000	-1.541426	20	PASS
			HV	NT	-9000	-1.734104	20	PASS
		5230	NV	NT	-9000	-1.720841	20	PASS
			LV	NT	-9000	-1.720841	20	PASS
			HV	NT	-10000	-1.912046	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SISO	Ant1	5180	NV	-30	-1000	-0.19305	20	PASS
			NV	-20	-2000	-0.3861	20	PASS
			NV	-10	-2000	-0.3861	20	PASS
			NV	0	-3000	-0.579151	20	PASS
			NV	10	-3000	-0.579151	20	PASS
			NV	20	-4000	-0.772201	20	PASS
			NV	30	-4000	-0.772201	20	PASS
			NV	40	-4000	-0.772201	20	PASS
			NV	50	-4000	-0.772201	20	PASS
		5220	NV	-30	-6000	-1.149425	20	PASS
			NV	-20	-6000	-1.149425	20	PASS
			NV	-10	-6000	-1.149425	20	PASS
			NV	0	-6000	-1.149425	20	PASS
			NV	10	-6000	-1.149425	20	PASS
			NV	20	-7000	-1.340996	20	PASS
			NV	30	-6000	-1.149425	20	PASS
			NV	40	-7000	-1.340996	20	PASS
			NV	50	-7000	-1.340996	20	PASS
		5240	NV	-30	-7000	-1.335878	20	PASS



			NV	-20	-8000	-1.526718	20	PASS
			NV	-10	-8000	-1.526718	20	PASS
			NV	0	-8000	-1.526718	20	PASS
			NV	10	-8000	-1.526718	20	PASS
			NV	20	-8000	-1.526718	20	PASS
			NV	30	-8000	-1.526718	20	PASS
			NV	40	-8000	-1.526718	20	PASS
			NV	50	-8000	-1.526718	20	PASS
11AC40SIS O	Ant1	5190	NV	-30	-9000	-1.734104	20	PASS
			NV	-20	-9000	-1.734104	20	PASS
			NV	-10	-9000	-1.734104	20	PASS
			NV	0	-9000	-1.734104	20	PASS
			NV	10	-9000	-1.734104	20	PASS
			NV	20	-9000	-1.734104	20	PASS
			NV	30	-9000	-1.734104	20	PASS
			NV	40	-9000	-1.734104	20	PASS
			NV	50	-9000	-1.734104	20	PASS
		5230	NV	-30	-10000	-1.912046	20	PASS
			NV	-20	-10000	-1.912046	20	PASS
			NV	-10	-10000	-1.912046	20	PASS
			NV	0	-10000	-1.912046	20	PASS
			NV	10	-10000	-1.912046	20	PASS
			NV	20	-10000	-1.912046	20	PASS
			NV	30	-10000	-1.912046	20	PASS
			NV	40	-10000	-1.912046	20	PASS
			NV	50	-10000	-1.912046	20	PASS



D.6 Duty Cycle

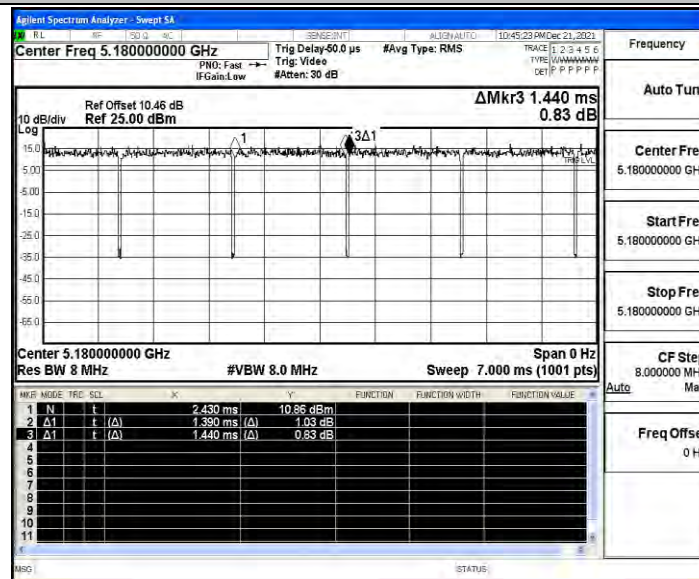
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant0	5180	1.39	1.44	96.53	---	---
		5220	1.40	1.45	96.55	---	---
		5240	1.39	1.44	96.53	---	---
11N20SISO	Ant0	5180	1.29	1.34	96.27	---	---
		5220	1.29	1.34	96.27	---	---
		5240	1.30	1.35	96.30	---	---
11N40SISO	Ant0	5190	0.65	0.69	94.20	---	---
		5230	0.65	0.69	94.20	---	---
11AC20SISO	Ant0	5180	1.31	1.36	96.32	---	---
		5220	1.31	1.35	97.04	---	---
		5240	1.31	1.36	96.32	---	---
11AC40SISO	Ant0	5190	0.65	0.70	92.86	---	---
		5230	0.65	0.69	94.20	---	---
11AC80SISO	Ant0	5210	0.33	0.36	91.67	---	---

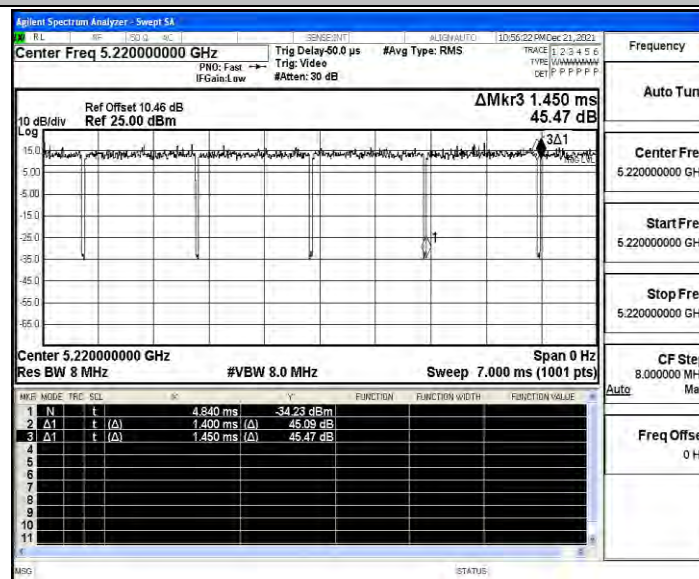


Test Graphs

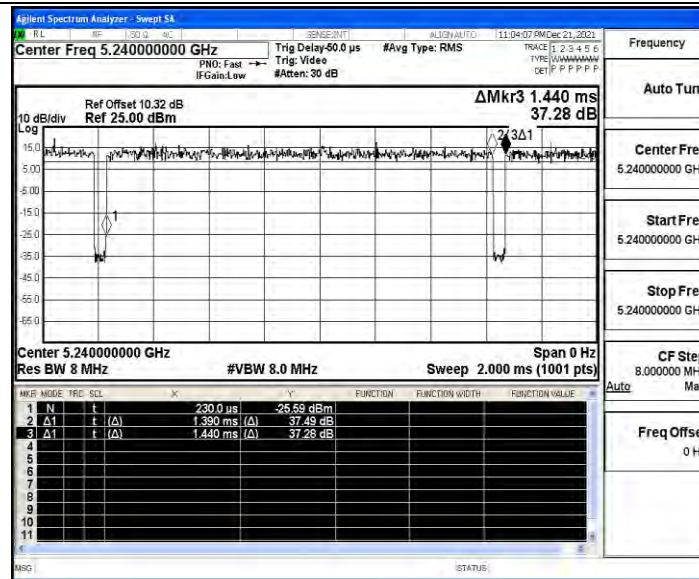
11A_Ant0_5180



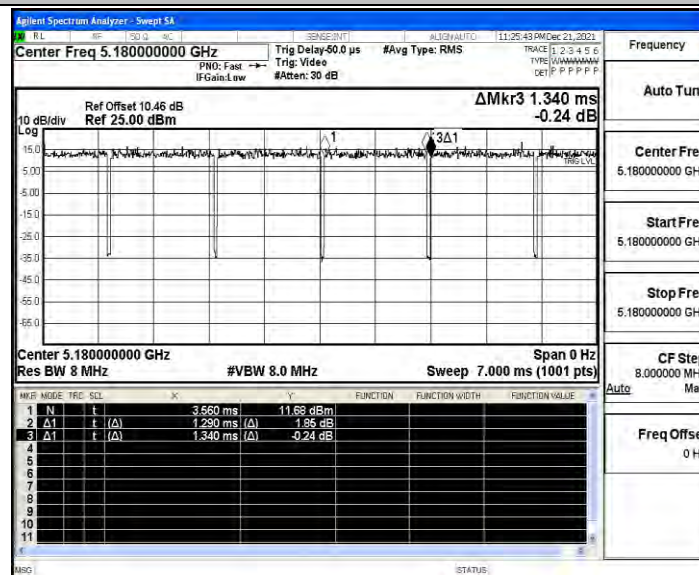
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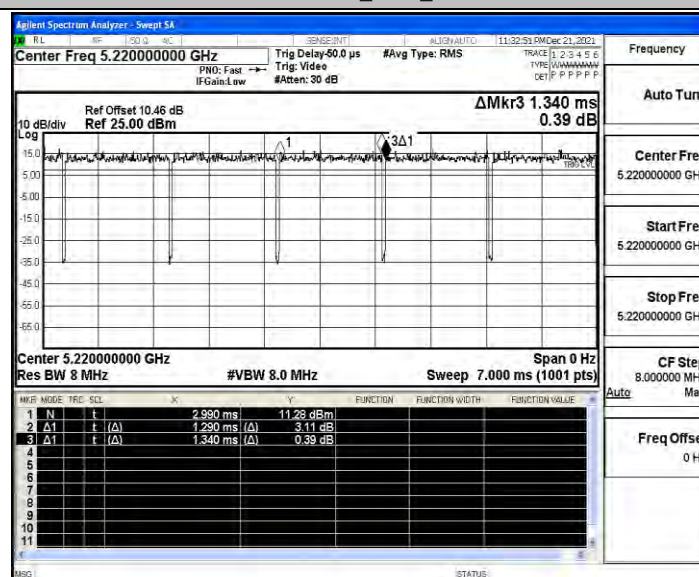
11A_Ant0_5240



11N20SISO_Ant0_5180

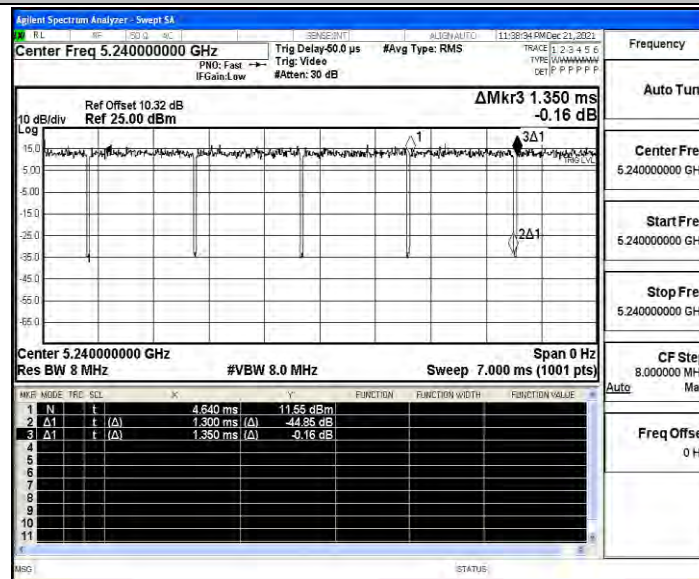


11N20SISO_Ant0_5220

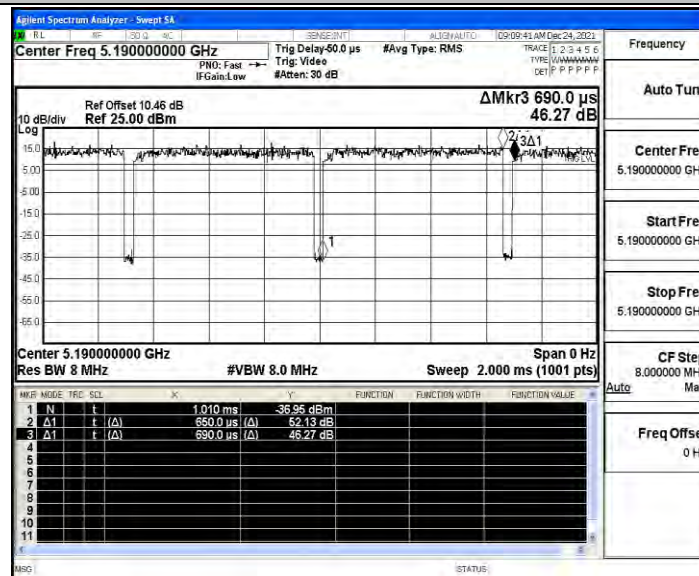




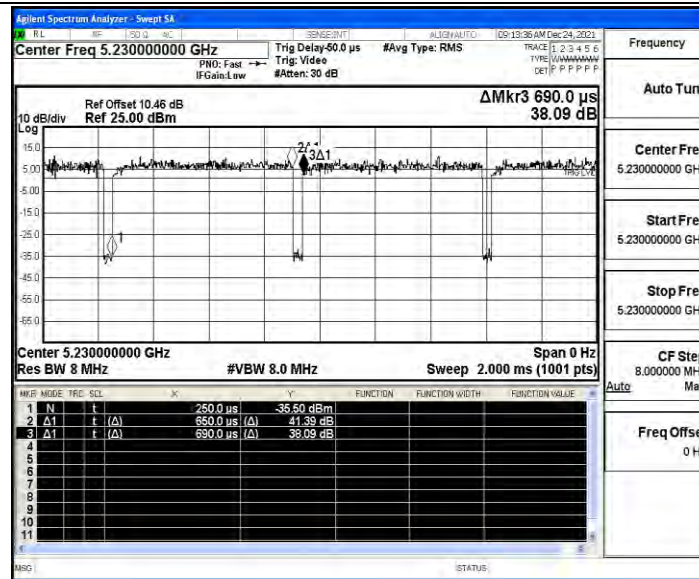
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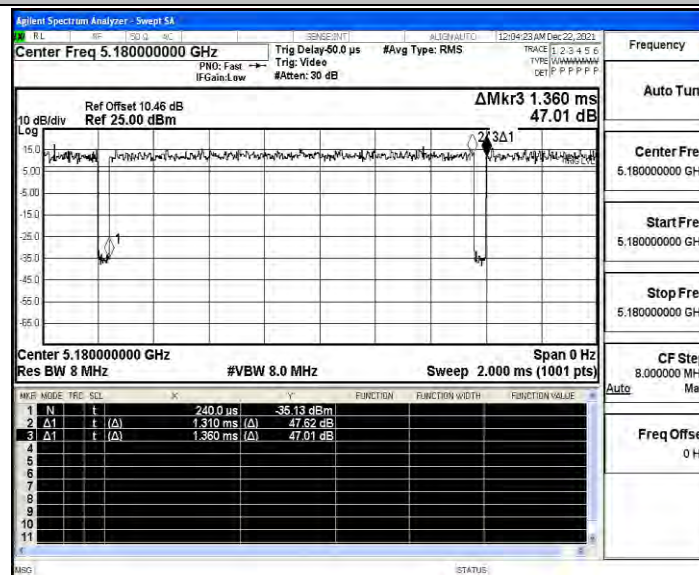
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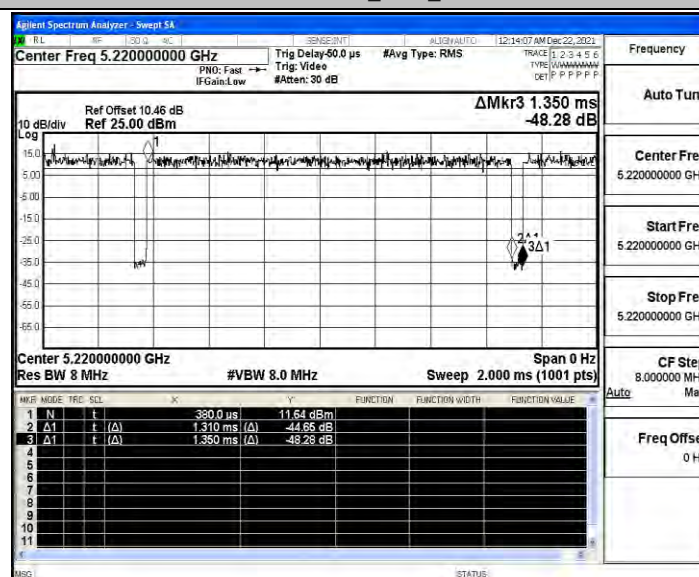
11N40SISO_Ant0_5230



11AC20SISO_Ant0_5180

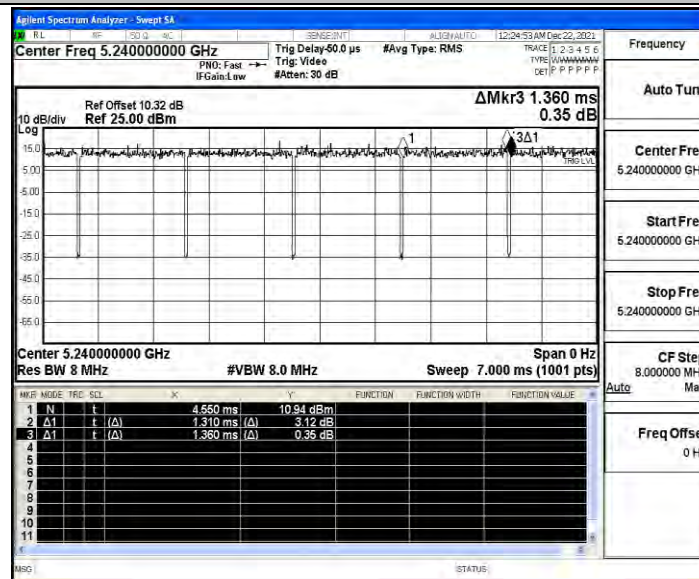


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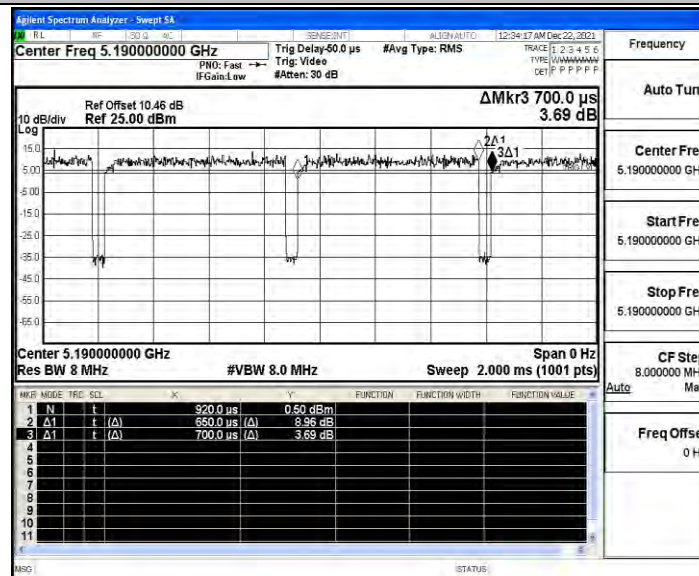




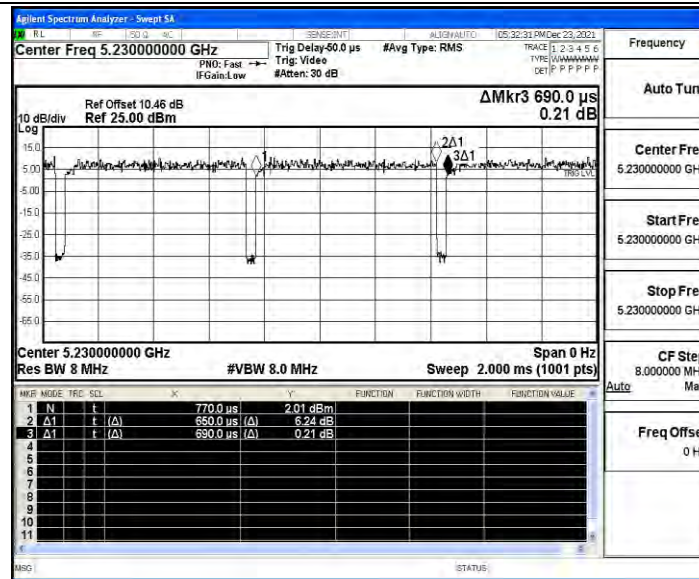
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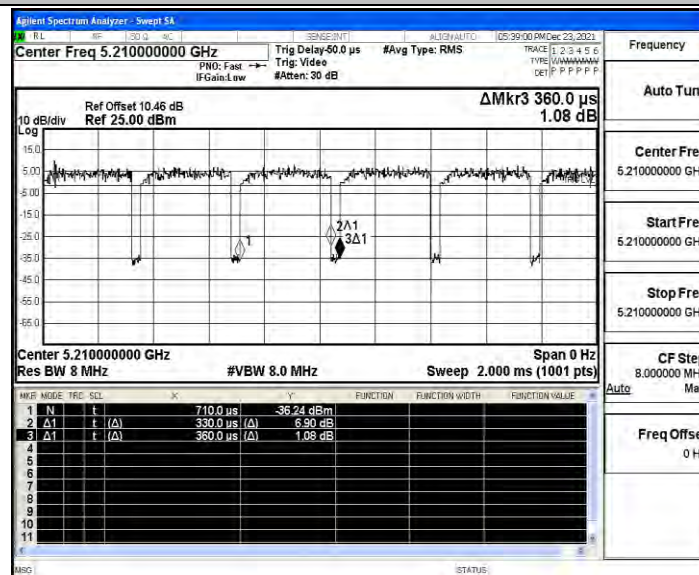
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11AC40SISO_Ant0_5230



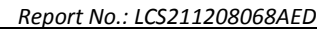
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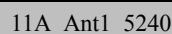
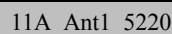


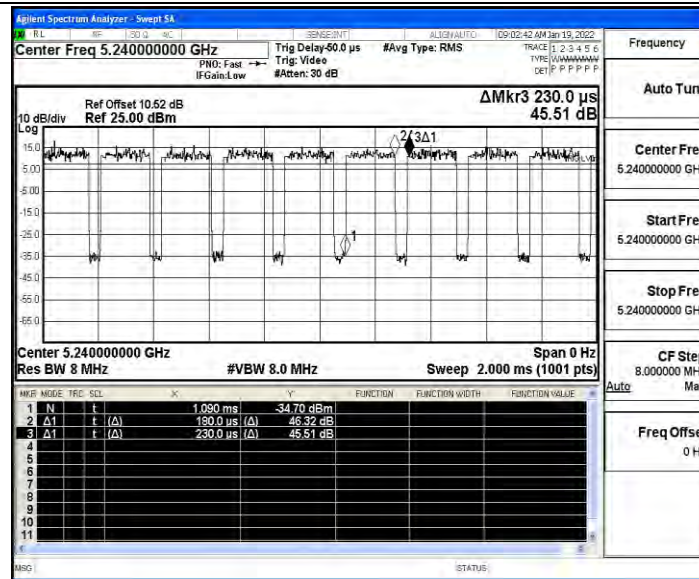
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	0.18	0.22	81.82	---	---
		5220	0.17	0.22	77.27	---	---
		5240	0.18	0.23	78.26	---	---
11N20SISO	Ant1	5180	0.16	0.21	76.19	---	---
		5220	0.16	0.21	76.19	---	---
		5240	0.16	0.21	76.19	---	---
11N40SISO	Ant1	5190	0.10	0.14	71.43	---	---
		5230	0.10	0.14	71.43	---	---
11AC20SISO	Ant1	5180	0.16	0.21	76.19	---	---
		5220	0.17	0.22	77.27	---	---
		5240	0.17	0.21	80.95	---	---
11AC40SISO	Ant1	5190	0.10	0.15	66.67	---	---
		5230	0.10	0.14	71.43	---	---
11AC80SISO	Ant1	5210	0.07	0.11	63.64	---	---

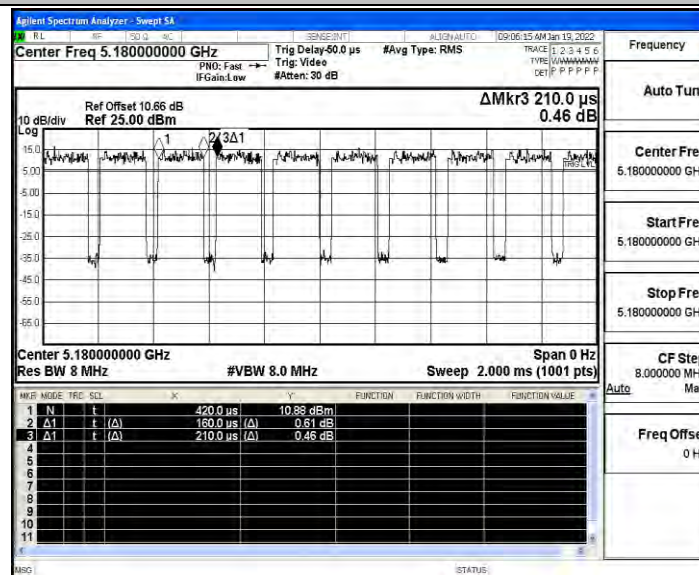


11A_Ant1_5180

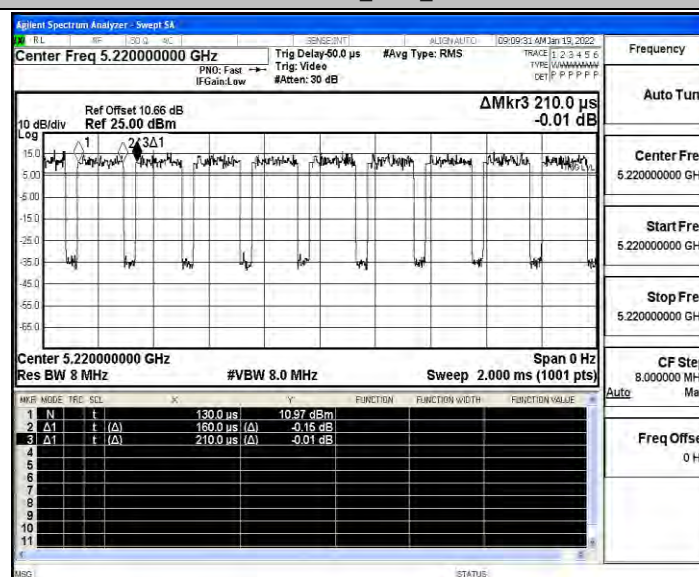


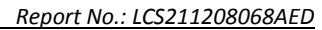


11N20SISO_Ant1_5180

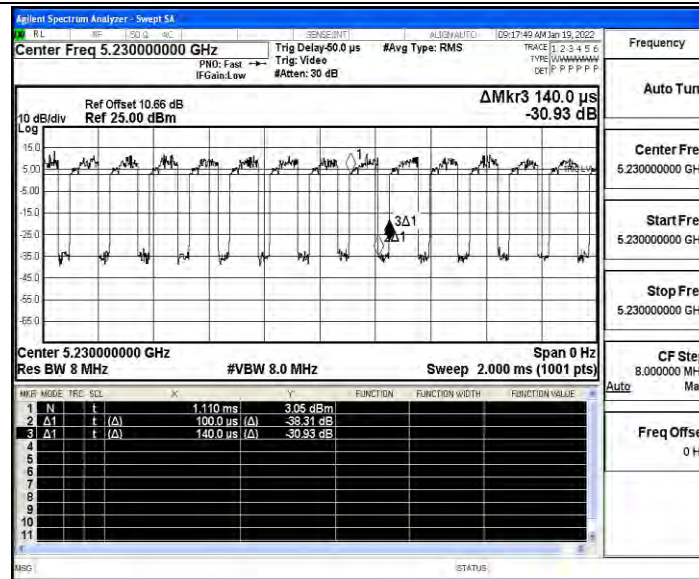


11N20SISO_Ant1_5220

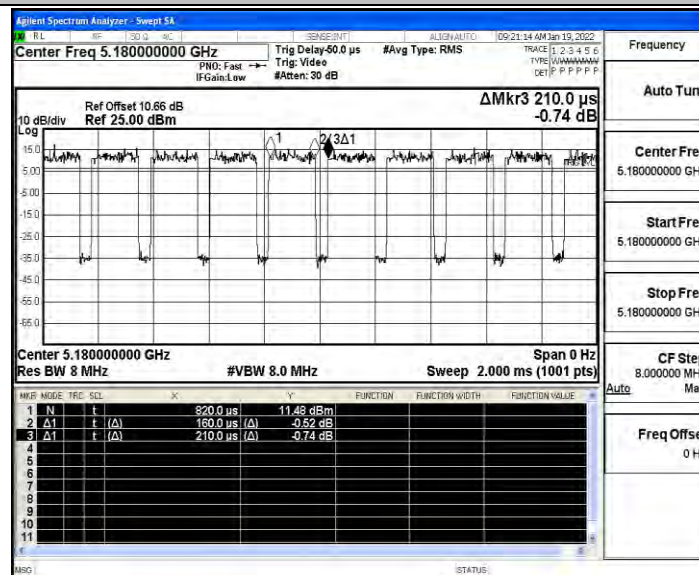


[illegible][illegible]

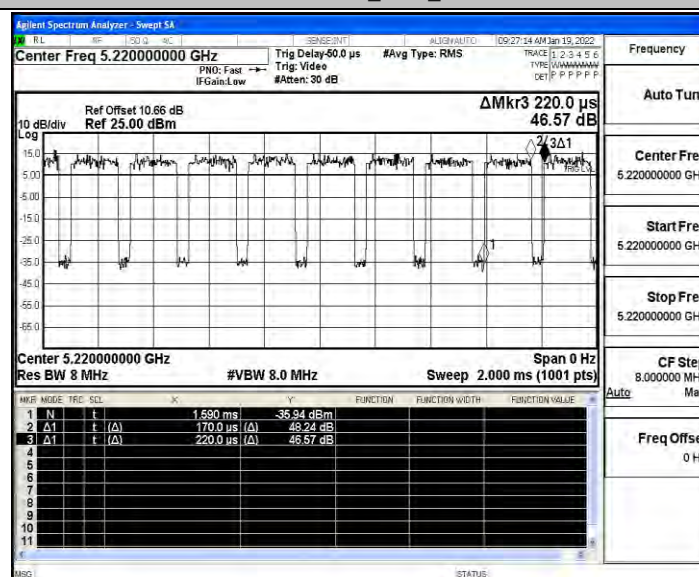
72 / 75



11AC20SISO_Ant1_5180

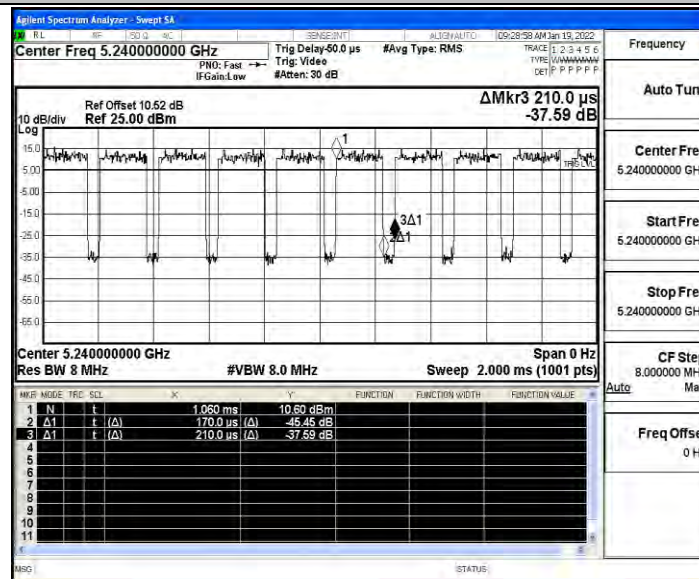


11AC20SISO_Ant1_5220

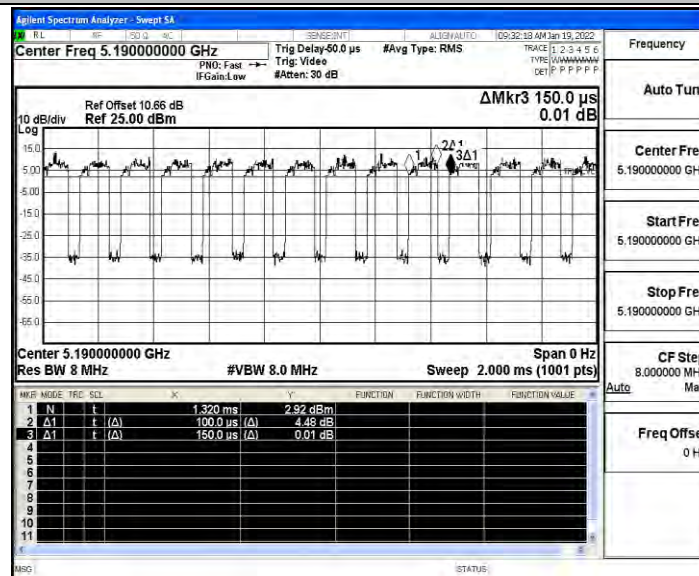




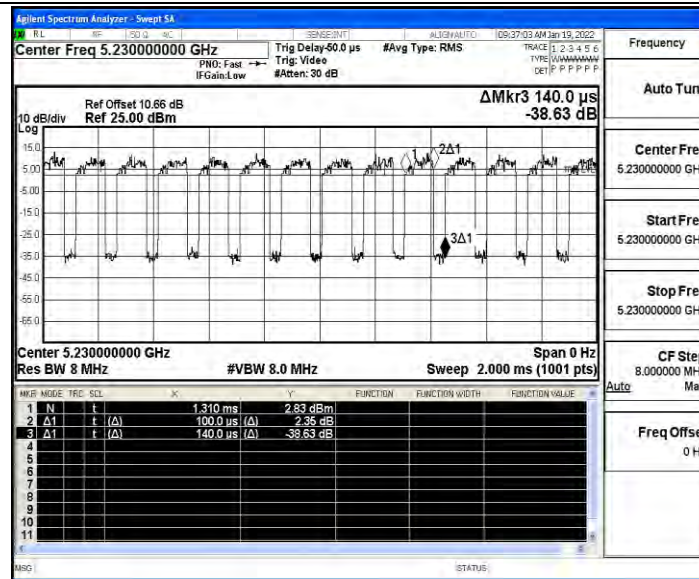
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

