



Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: AMD R1505G/R1305G Player

Test Model: SMPA

Environmental Conditions

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



D.1 26dB Bandwidth

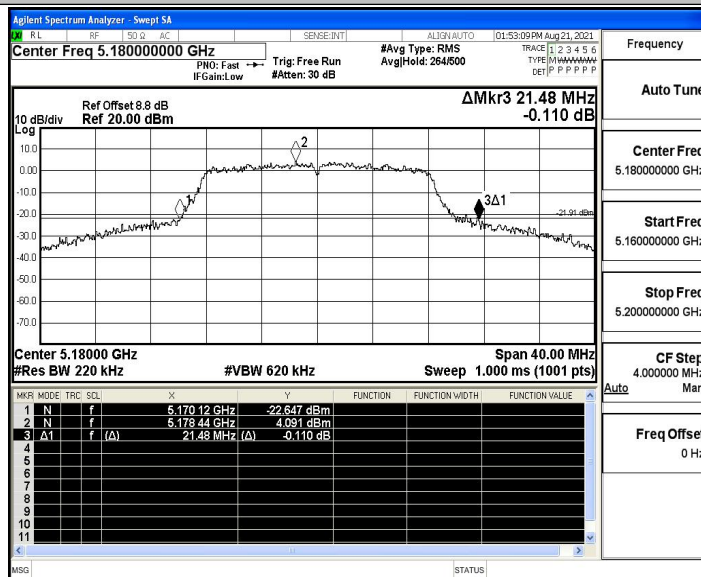
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.480	5170.120	5191.600	---	PASS
		5200	19.880	5190.080	5209.960	---	PASS
		5240	19.800	5230.040	5249.840	---	PASS
11N20SISO	Ant1	5180	20.040	5170.000	5190.040	---	PASS
		5200	20.000	5190.000	5210.000	---	PASS
		5240	20.000	5229.960	5249.960	---	PASS
11N40SISO	Ant1	5190	40.160	5170.000	5210.160	---	PASS
		5230	40.000	5210.000	5250.000	---	PASS
11AC20SISO	Ant1	5180	20.000	5170.000	5190.000	---	PASS
		5200	19.960	5190.000	5209.960	---	PASS
		5240	20.000	5230.080	5250.080	---	PASS
11AC40SISO	Ant1	5190	40.000	5170.000	5210.000	---	PASS
		5230	40.080	5209.920	5250.000	---	PASS
11AC80SISO	Ant1	5210	81.440	5169.200	5250.640	---	PASS

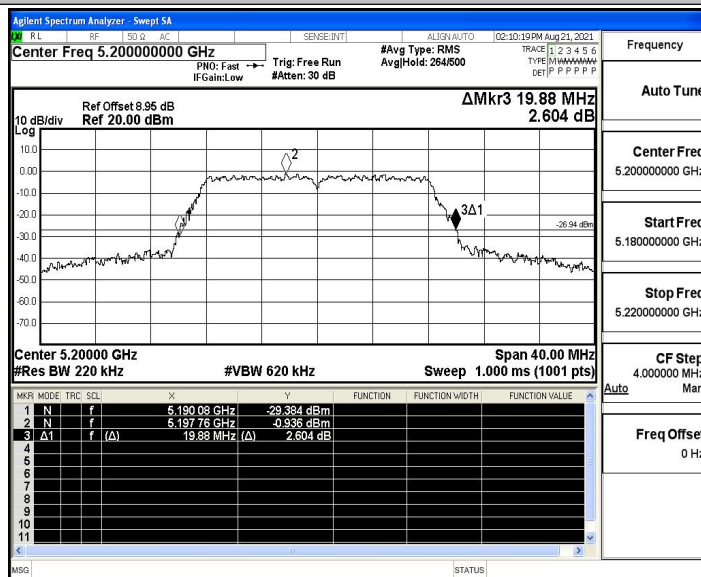


Test Graphs

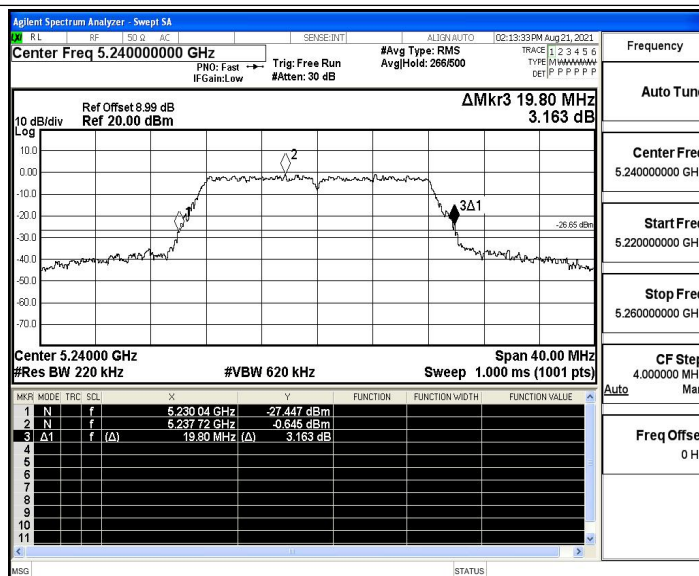
11A_Ant1_5180



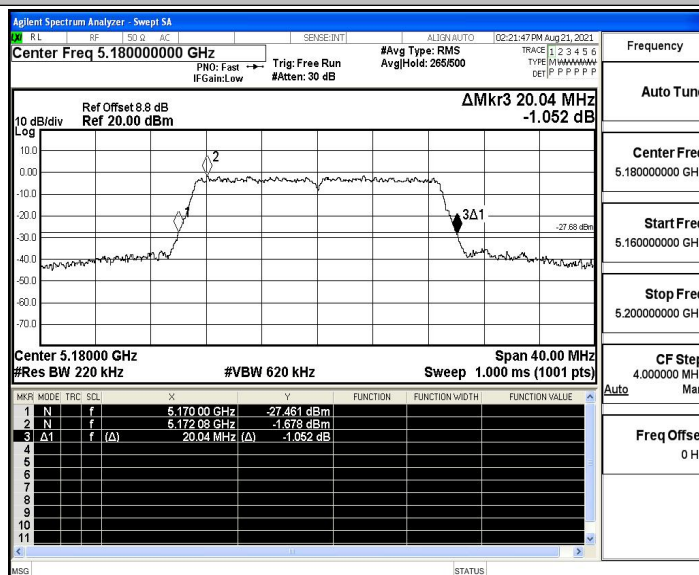
11A_Ant1_5200



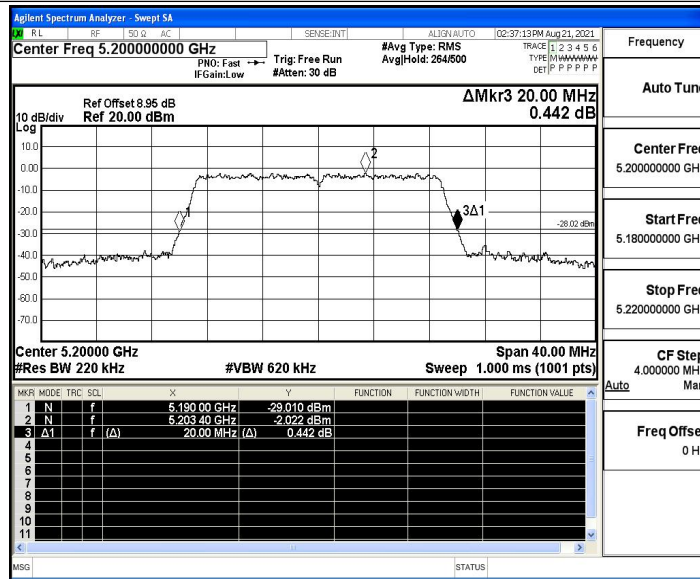
11A_Ant1_5240



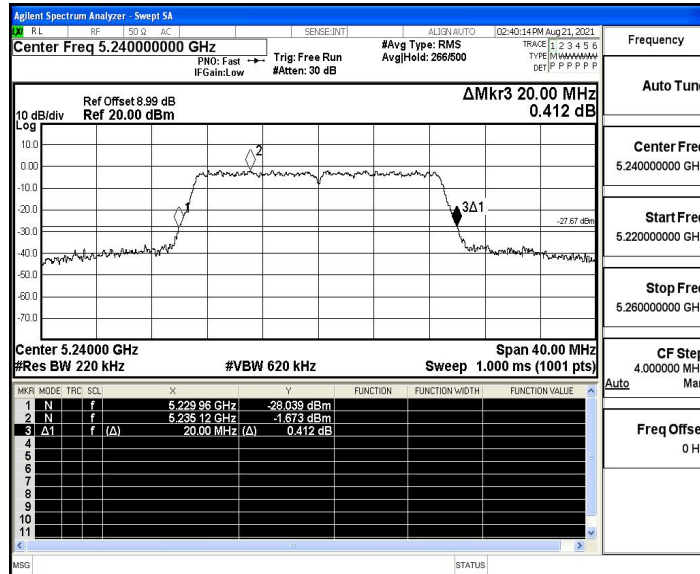
11N20SISO_Ant1_5180



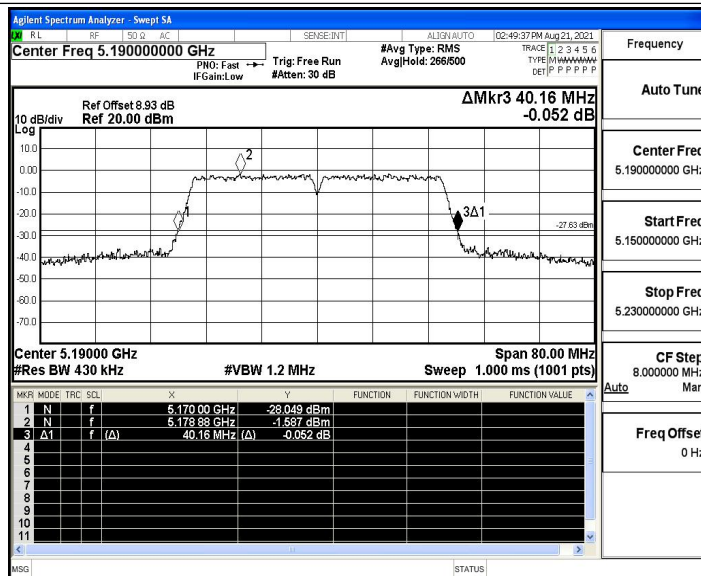
11N20SISO_Ant1_5200



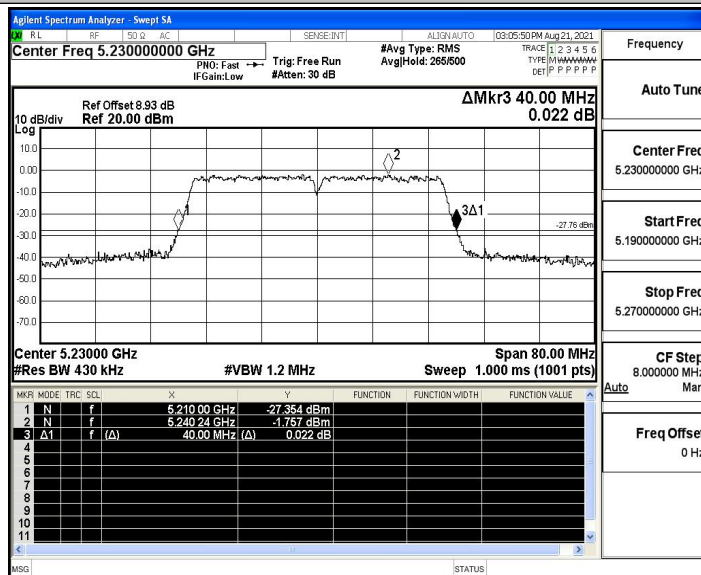
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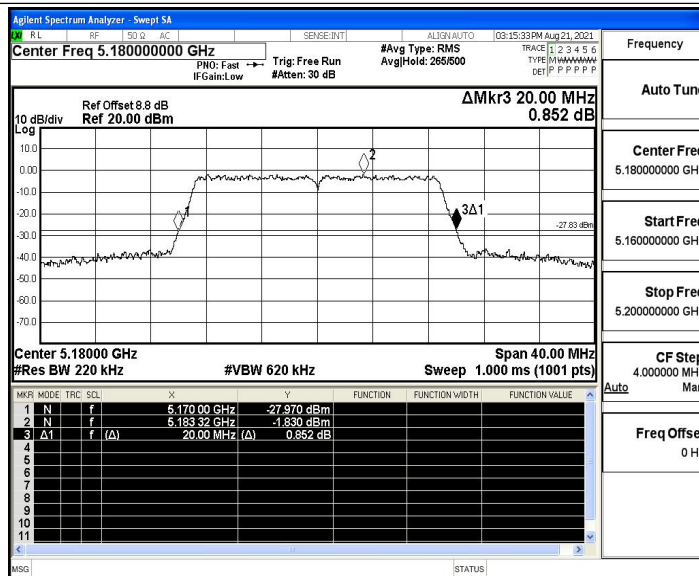
11N40SISO_Ant1_5190



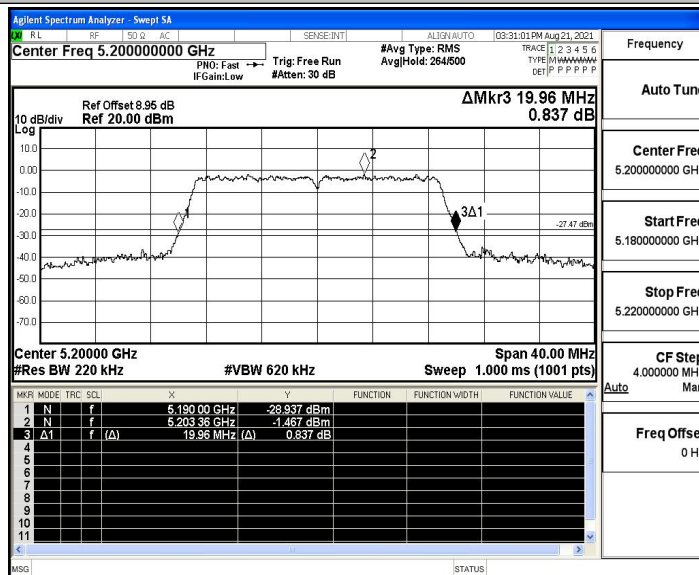
11N40SISO_Ant1_5230



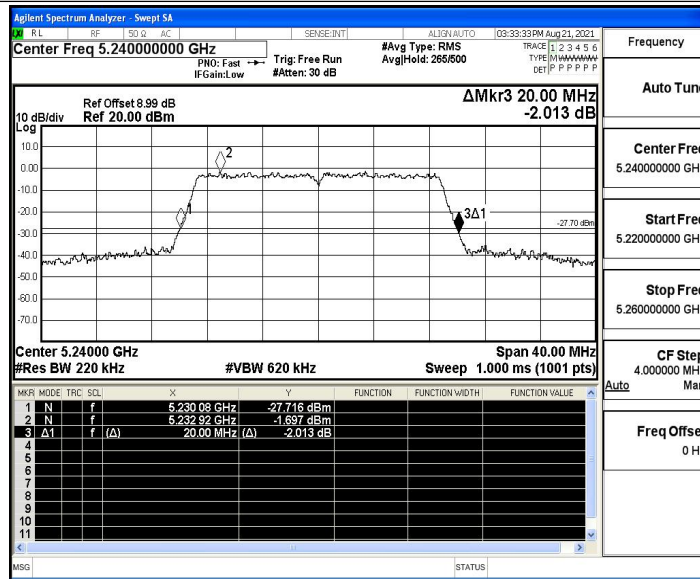
11AC20SISO_Ant1_5180



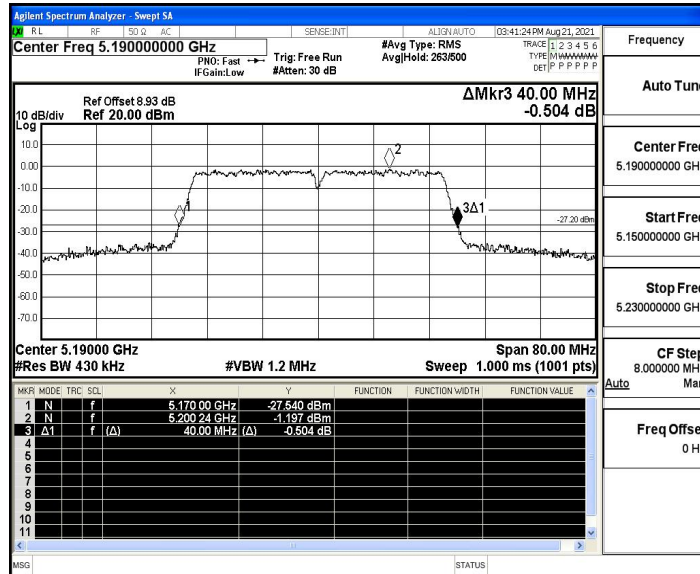
11AC20SISO_Ant1_5200



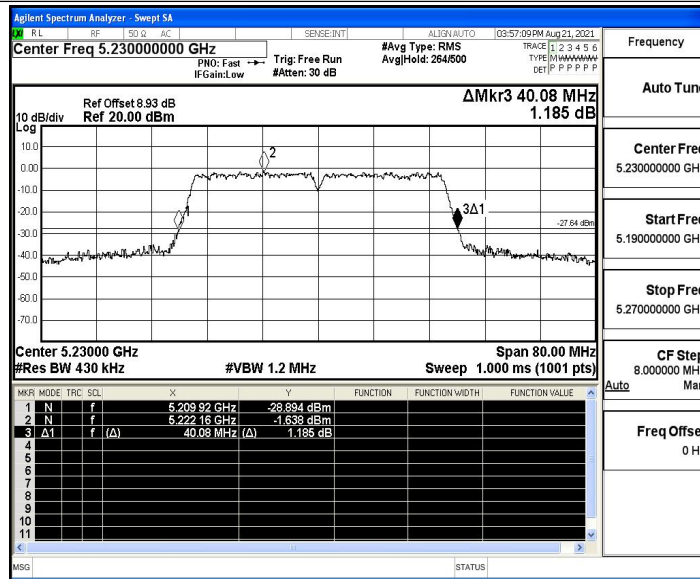
11AC20SISO_Ant1_5240



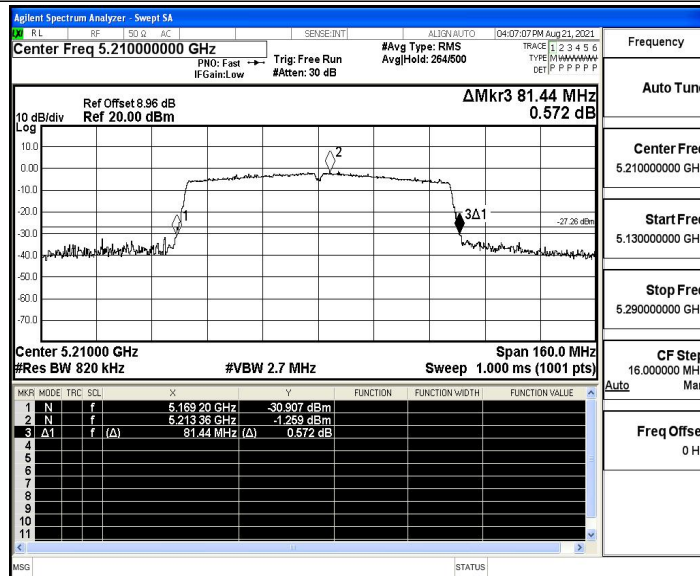
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





D.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	9.06	≤23.98	PASS
		5200	8.85	≤23.98	PASS
		5240	9.30	≤23.98	PASS
11N20SISO	Ant1	5180	9.10	≤23.98	PASS
		5200	8.83	≤23.98	PASS
		5240	9.22	≤23.98	PASS
11N40SISO	Ant1	5190	9.23	≤23.98	PASS
		5230	8.86	≤23.98	PASS
11AC20SISO	Ant1	5180	9.20	≤23.98	PASS
		5200	9.06	≤23.98	PASS
		5240	9.29	≤23.98	PASS
11AC40SISO	Ant1	5190	9.59	≤23.98	PASS
		5230	9.20	≤23.98	PASS
11AC80SISO	Ant1	5210	9.22	≤23.98	PASS

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



D.3 Maximum power spectral density

Test Result

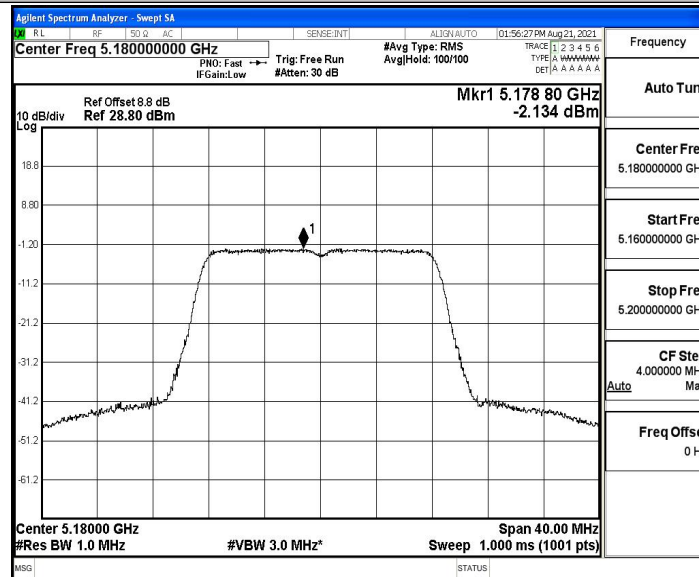
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-2.13	≤11	PASS
		5200	-2.32	≤11	PASS
		5240	-1.79	≤11	PASS
11N20SISO	Ant1	5180	-2.38	≤11	PASS
		5200	-2.7	≤11	PASS
		5240	-2.32	≤11	PASS
11N40SISO	Ant1	5190	-5.33	≤11	PASS
		5230	-5.63	≤11	PASS
11AC20SISO	Ant1	5180	-2.26	≤11	PASS
		5200	-2.24	≤11	PASS
		5240	-2.16	≤11	PASS
11AC40SISO	Ant1	5190	-4.8	≤11	PASS
		5230	-5.06	≤11	PASS
11AC80SISO	Ant1	5210	-7.25	≤11	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.

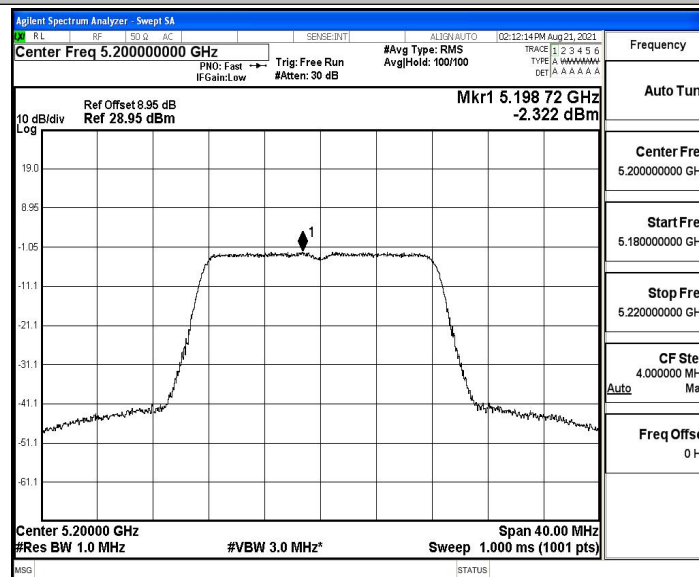


Test Graphs

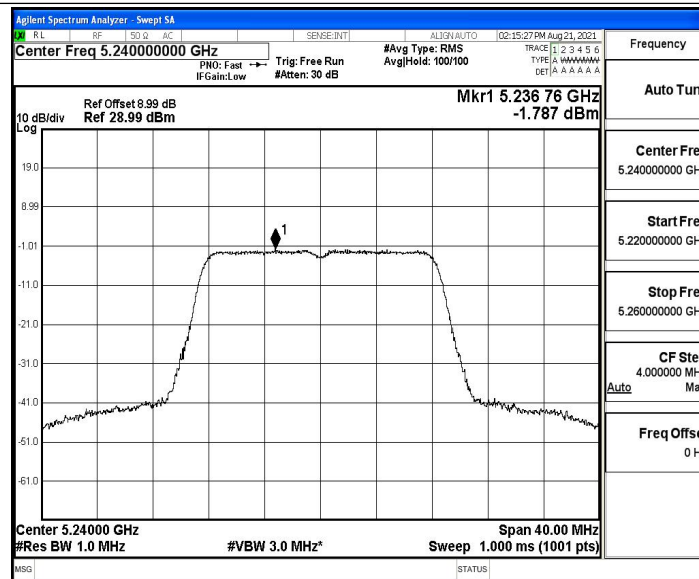
11A_Ant1_5180



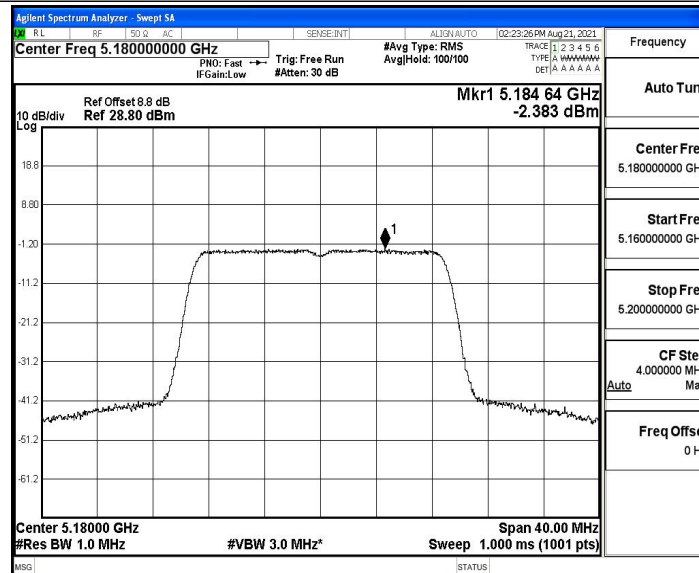
11A_Ant1_5200



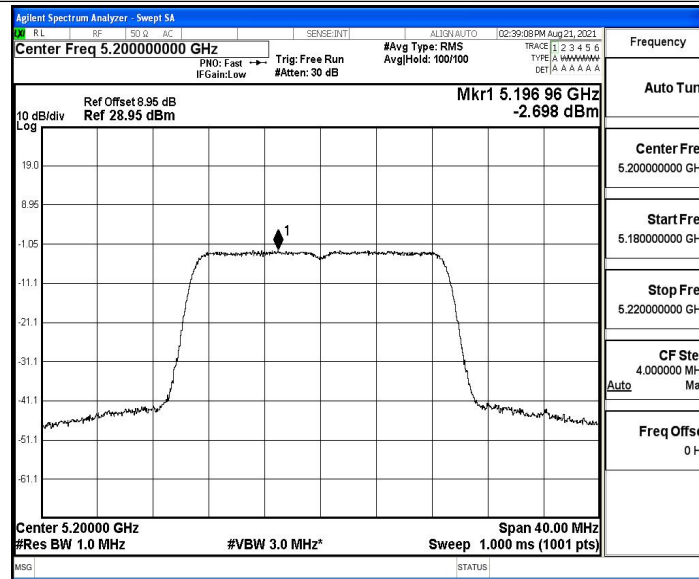
11A_Ant1_5240



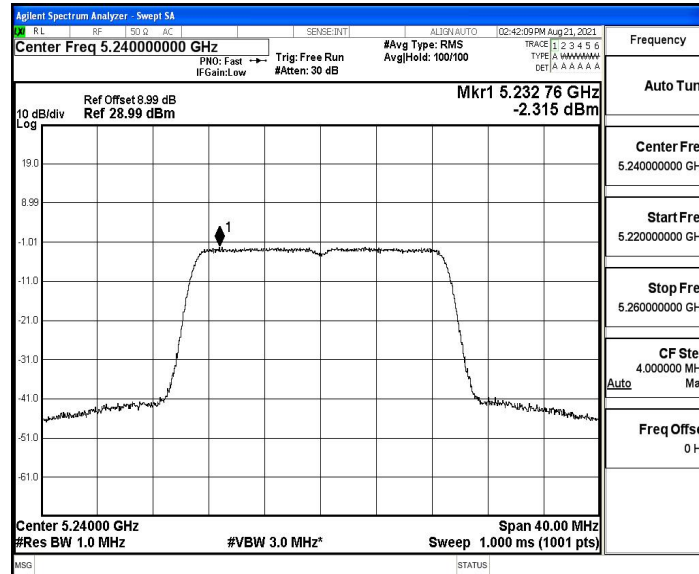
11N20SISO_Ant1_5180



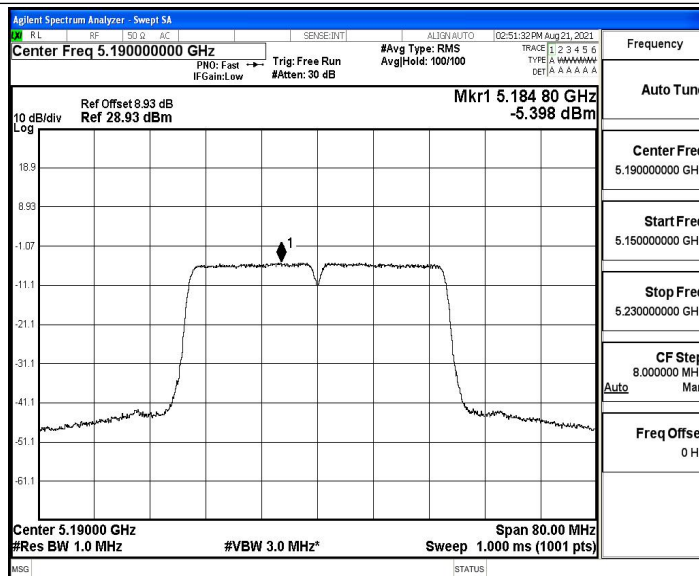
11N20SISO_Ant1_5200



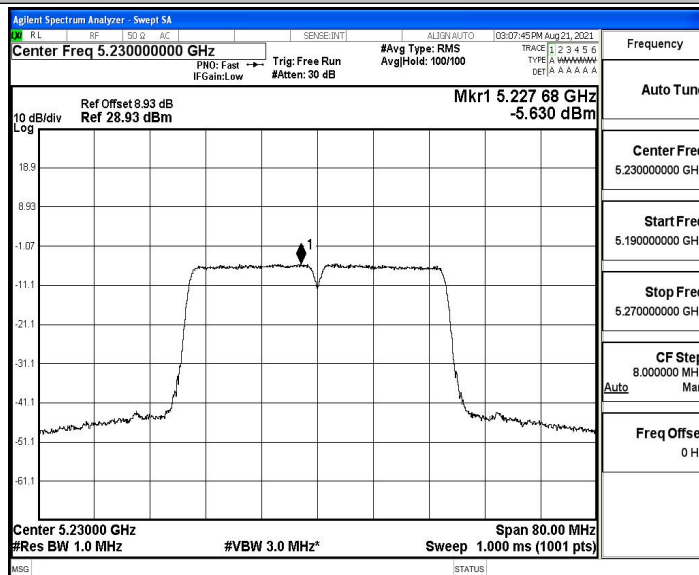
11N20SISO_Ant1_5240



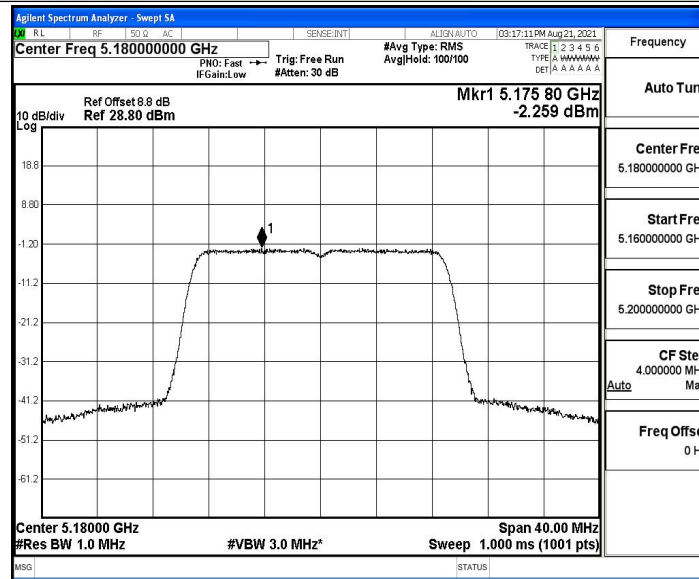
11N40SISO_Ant1_5190



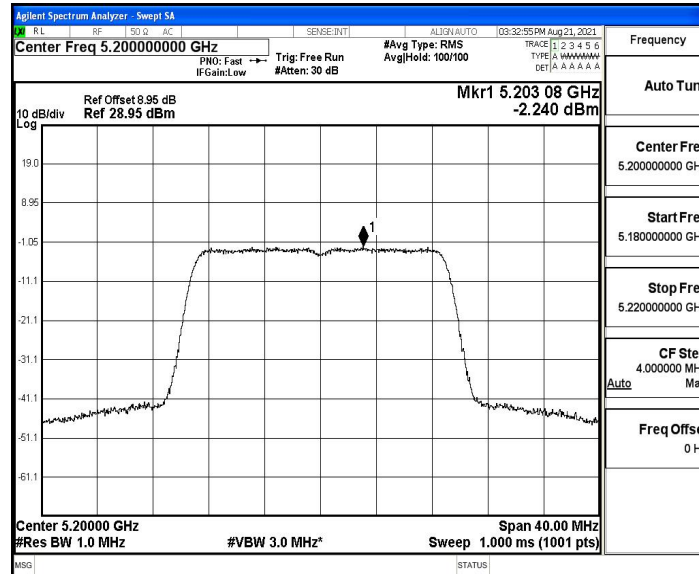
11N40SISO_Ant1_5230



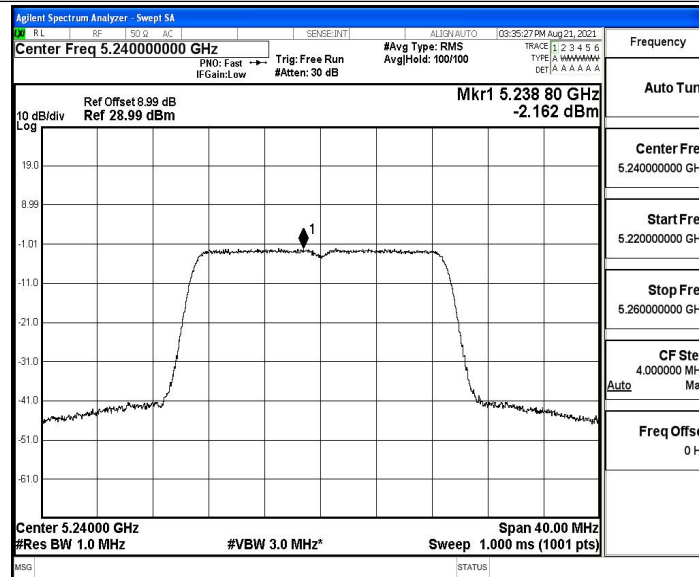
11AC20SISO_Ant1_5180



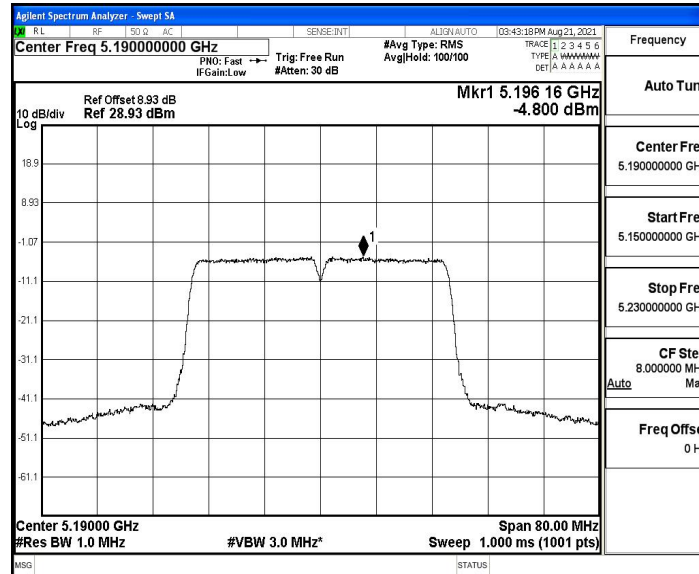
11AC20SISO_Ant1_5200



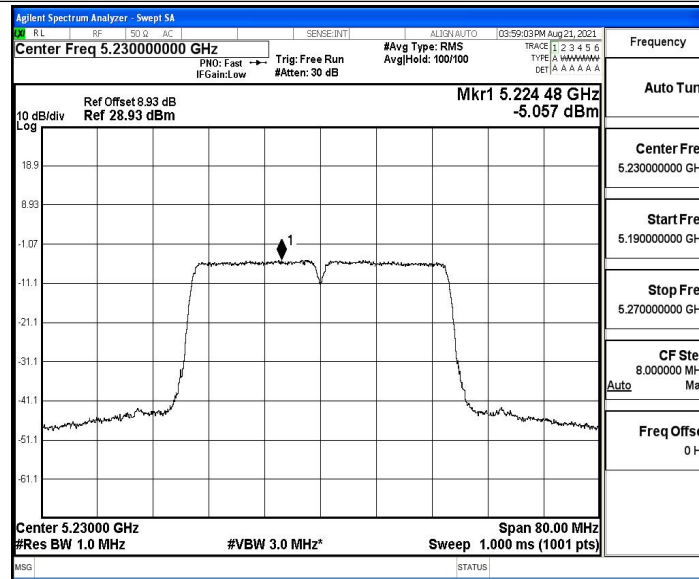
11AC20SISO_Ant1_5240



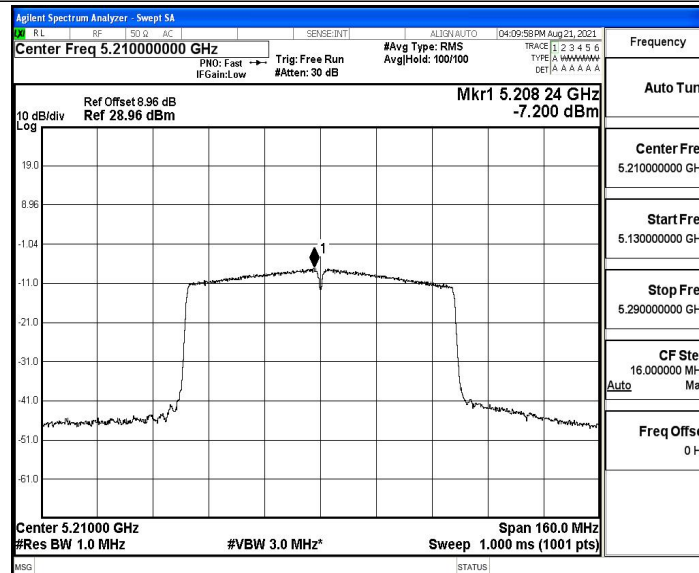
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





D.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-50	≤-41.20	45.20	≤54	PASS
				AV	5102.000	-47.12	≤-41.20	48.08	≤54	PASS
				AV	5150.000	-47.38	≤-41.20	47.82	≤54	PASS
				Peak	4500.000	-43.88	≤-21.20	51.32	≤74	PASS
				Peak	4887.800	-38.72	≤-21.20	56.48	≤74	PASS
				Peak	5150.000	-41.03	≤-21.20	54.17	≤74	PASS
		High	5240	AV	5350.000	-48.02	≤-41.20	47.18	≤54	PASS
				AV	5370.000	-47.73	≤-41.20	47.47	≤54	PASS
				AV	5460.000	-48.2	≤-41.20	47.00	≤54	PASS
				Peak	5350.000	-45.18	≤-21.20	50.02	≤74	PASS
				Peak	5401.440	-38.08	≤-21.20	57.12	≤74	PASS
				Peak	5460.000	-42.52	≤-21.20	52.68	≤74	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-50.06	≤-41.20	45.14	≤54	PASS
				AV	5102.000	-47.22	≤-41.20	47.98	≤54	PASS
				AV	5150.000	-47.4	≤-41.20	47.80	≤54	PASS
				Peak	4500.000	-41.74	≤-21.20	53.46	≤74	PASS
				Peak	4708.600	-37.76	≤-21.20	57.44	≤74	PASS
				Peak	5150.000	-43.49	≤-21.20	51.71	≤74	PASS
		High	5240	AV	5350.000	-48.02	≤-41.20	47.18	≤54	PASS
				AV	5370.000	-47.73	≤-41.20	47.47	≤54	PASS
				AV	5460.000	-48.2	≤-41.20	47.00	≤54	PASS
				Peak	5350.000	-42.42	≤-21.20	52.78	≤74	PASS
				Peak	5381.520	-38.22	≤-21.20	56.98	≤74	PASS
				Peak	5460.000	-43.32	≤-21.20	51.88	≤74	PASS
11N40SIS O	Ant1	Low	5190	AV	4500.000	-49.92	≤-41.20	45.28	≤54	PASS
				AV	5149.600	-45.4	≤-41.20	49.80	≤54	PASS
				AV	5150.000	-45.16	≤-41.20	50.04	≤54	PASS
				Peak	4500.000	-43.89	≤-21.20	51.31	≤74	PASS
				Peak	5132.100	-36.83	≤-21.20	58.37	≤74	PASS
				Peak	5150.000	-40.56	≤-21.20	54.64	≤74	PASS
		High	5230	AV	5350.000	-48.13	≤-41.20	47.07	≤54	PASS
				AV	5359.900	-47.82	≤-41.20	47.38	≤54	PASS
				AV	5460.000	-48.28	≤-41.20	46.92	≤54	PASS
				Peak	5350.000	-45.19	≤-21.20	50.01	≤74	PASS
				Peak	5392.660	-38.67	≤-21.20	56.53	≤74	PASS



				Peak	5460.000	-45	≤-21.20	50.20	≤74	PASS
11AC20SI SO	Ant1	Low	5180	AV	4500.000	-50.02	≤-41.20	45.18	≤54	PASS
				AV	5102.000	-47.18	≤-41.20	48.02	≤54	PASS
				AV	5150.000	-47.4	≤-41.20	47.80	≤54	PASS
				Peak	4500.000	-43.18	≤-21.20	52.02	≤74	PASS
				Peak	4871.700	-38.79	≤-21.20	56.41	≤74	PASS
				Peak	5150.000	-43.04	≤-21.20	52.16	≤74	PASS
		High	5240	AV	5350.000	-48.02	≤-41.20	47.18	≤54	PASS
				AV	5370.000	-47.71	≤-41.20	47.49	≤54	PASS
				AV	5460.000	-48.17	≤-41.20	47.03	≤54	PASS
				Peak	5350.000	-43.81	≤-21.20	51.39	≤74	PASS
				Peak	5361.840	-39.12	≤-21.20	56.08	≤74	PASS
				Peak	5460.000	-43.48	≤-21.20	51.72	≤74	PASS
11AC40SI SO	Ant1	Low	5190	AV	4500.000	-49.91	≤-41.20	45.29	≤54	PASS
				AV	5149.600	-45.02	≤-41.20	50.18	≤54	PASS
				AV	5150.000	-44.75	≤-41.20	50.45	≤54	PASS
				Peak	4500.000	-44.13	≤-21.20	51.07	≤74	PASS
				Peak	5143.300	-37.23	≤-21.20	57.97	≤74	PASS
				Peak	5150.000	-39.6	≤-21.20	55.60	≤74	PASS
		High	5230	AV	5350.000	-48.12	≤-41.20	47.08	≤54	PASS
				AV	5359.900	-47.78	≤-41.20	47.42	≤54	PASS
				AV	5460.000	-48.28	≤-41.20	46.92	≤54	PASS
				Peak	5350.000	-45.2	≤-21.20	50.00	≤74	PASS
				Peak	5360.420	-39.08	≤-21.20	56.12	≤74	PASS
				Peak	5460.000	-41.26	≤-21.20	53.94	≤74	PASS
11AC80SI SO	Ant1	Low	5210	AV	4500.000	-49.89	≤-41.20	45.31	≤54	PASS
				AV	5149.500	-47.2	≤-41.20	48.00	≤54	PASS
				AV	5150.000	-47.2	≤-41.20	48.00	≤54	PASS
				Peak	4500.000	-42.35	≤-21.20	52.85	≤74	PASS
				Peak	4769.250	-38.17	≤-21.20	57.03	≤74	PASS
				Peak	5150.000	-40.8	≤-21.20	54.40	≤74	PASS
		High	5210	AV	5350.000	-48.16	≤-41.20	47.04	≤54	PASS
				AV	5363.120	-48.14	≤-41.20	47.06	≤54	PASS
				AV	5460.000	-48.23	≤-41.20	46.97	≤54	PASS
				Peak	5350.000	-39.79	≤-21.20	55.41	≤74	PASS
				Peak	5393.360	-38.87	≤-21.20	56.33	≤74	PASS
				Peak	5460.000	-42.97	≤-21.20	52.23	≤74	PASS

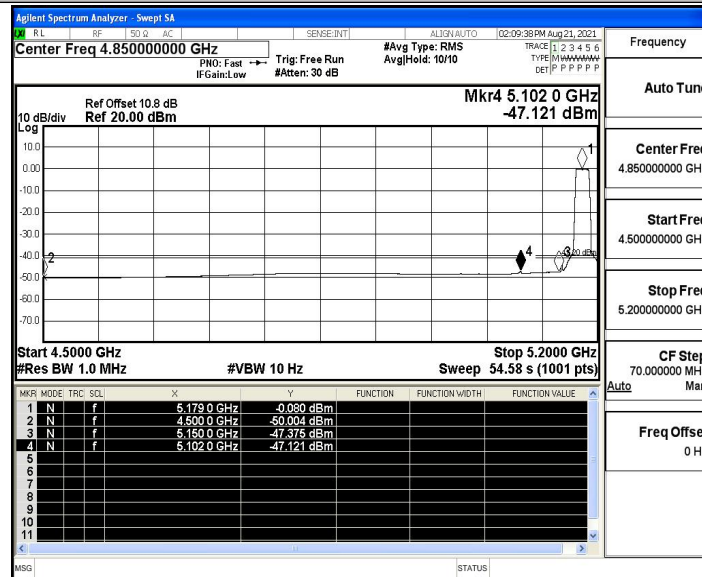
Note:

1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

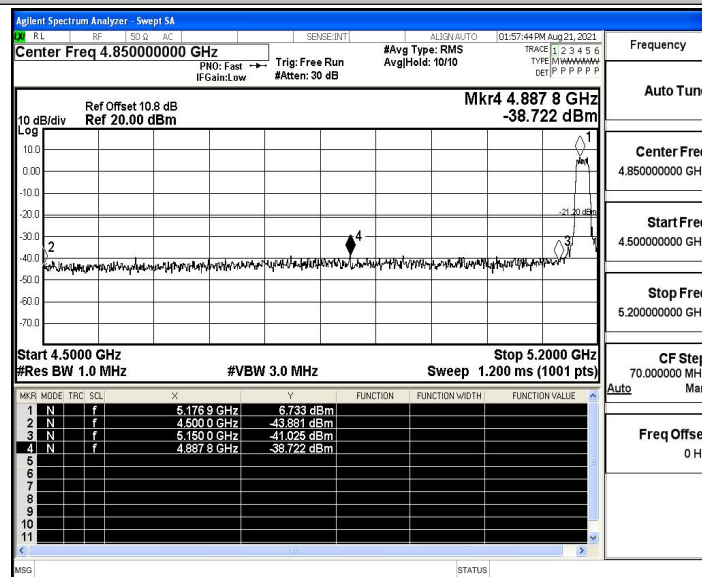


Test Graphs

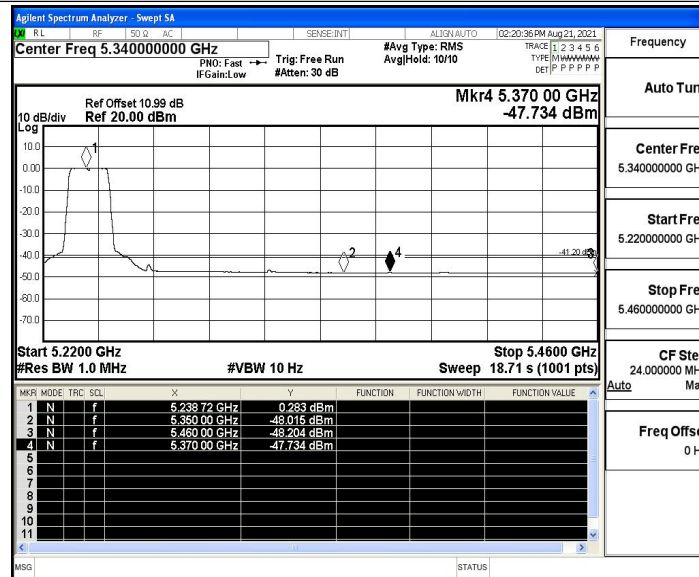
11A_Ant1_Low_5180_AV



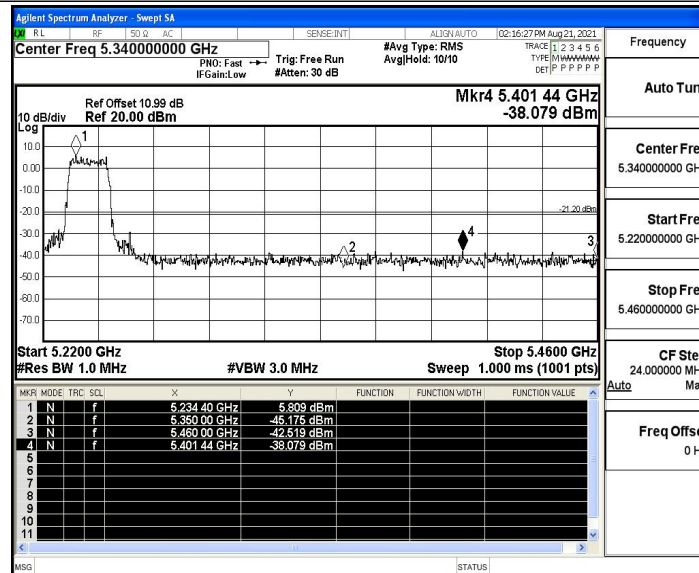
11A_Ant1_Low_5180_Peak



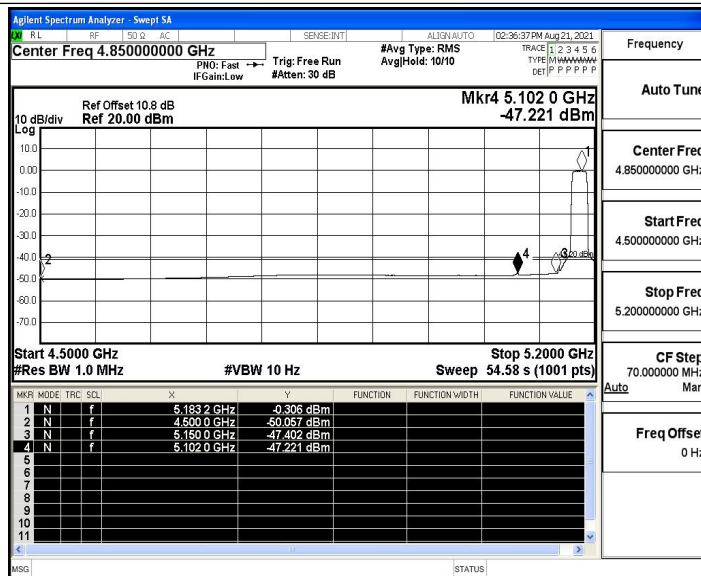
11A_Ant1_High_5240_AV



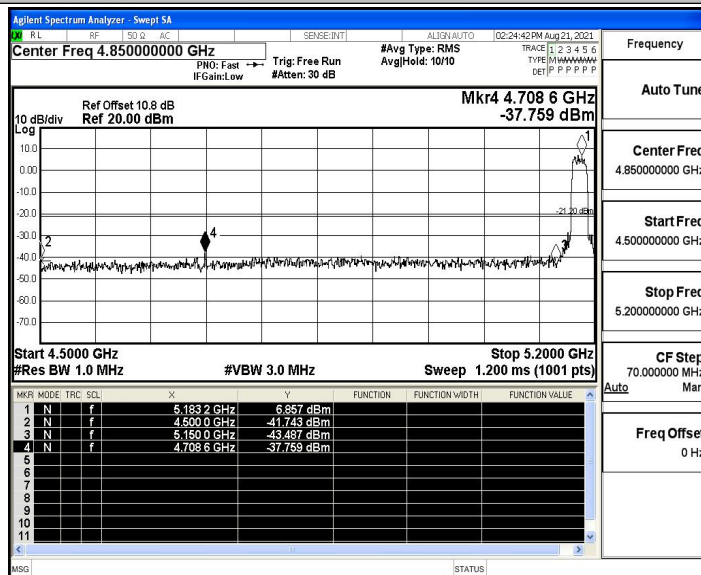
11A_Ant1_High_5240_Peak



11N20SISO_Ant1_Low_5180_AV



11N20SISO_Ant1_Low_5180_Peak



11N20SISO_Ant1_High_5240_AV