



Appendix B

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Android Mobile Scanning Device

Test Model: DRS-50

Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li Huan



B.1 26dB Bandwidth

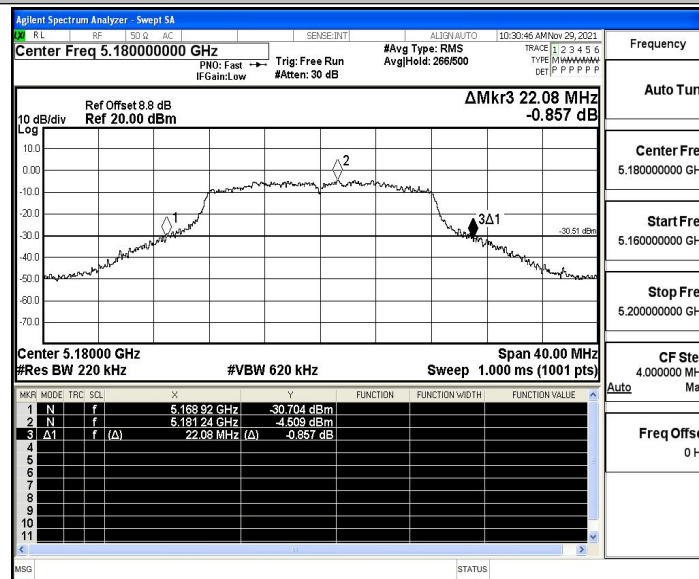
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.080	5168.920	5191.000	---	PASS
		5200	22.920	5188.680	5211.600	---	PASS
		5240	22.480	5228.760	5251.240	---	PASS
11N20SISO	Ant1	5180	22.720	5168.360	5191.080	---	PASS
		5200	22.920	5188.520	5211.440	---	PASS
		5240	22.520	5228.480	5251.000	---	PASS
11N40SISO	Ant1	5190	42.080	5168.720	5210.800	---	PASS
		5230	43.360	5207.600	5250.960	---	PASS
11AC20SISO	Ant1	5180	22.520	5168.520	5191.040	---	PASS
		5200	22.920	5188.520	5211.440	---	PASS
		5240	22.800	5228.720	5251.520	---	PASS
11AC40SISO	Ant1	5190	42.720	5168.640	5211.360	---	PASS
		5230	41.840	5208.720	5250.560	---	PASS
11AC80SISO	Ant1	5210	81.120	5169.200	5250.320	---	PASS

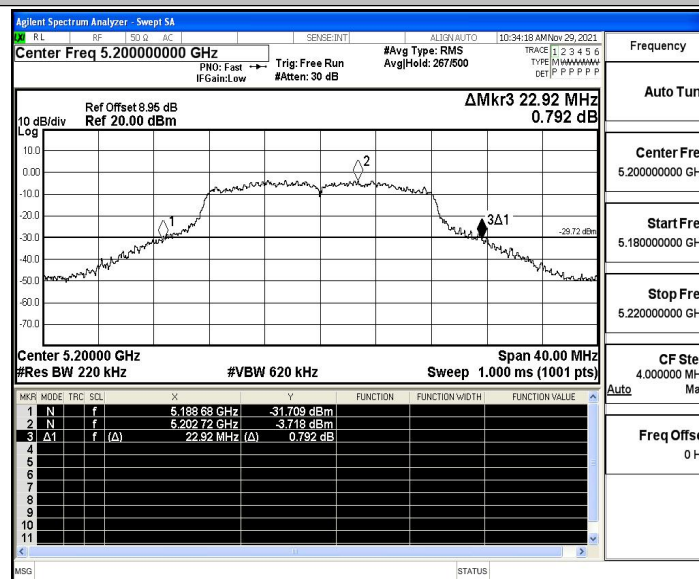


Test Graphs

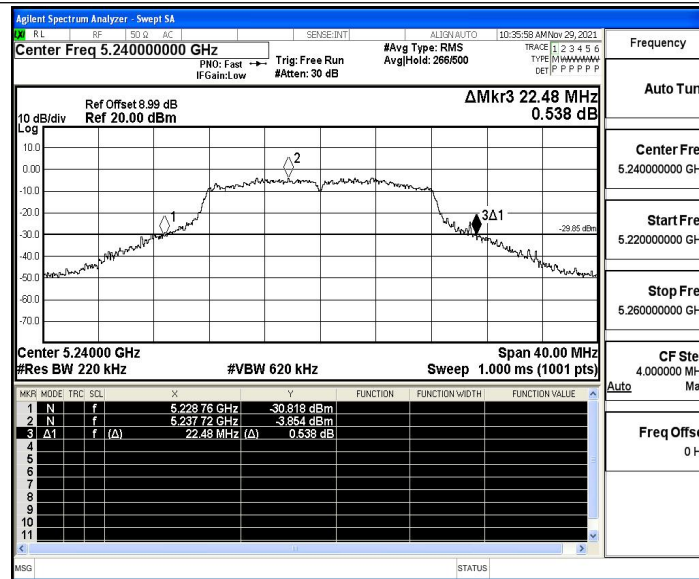
11A_Ant1_5180



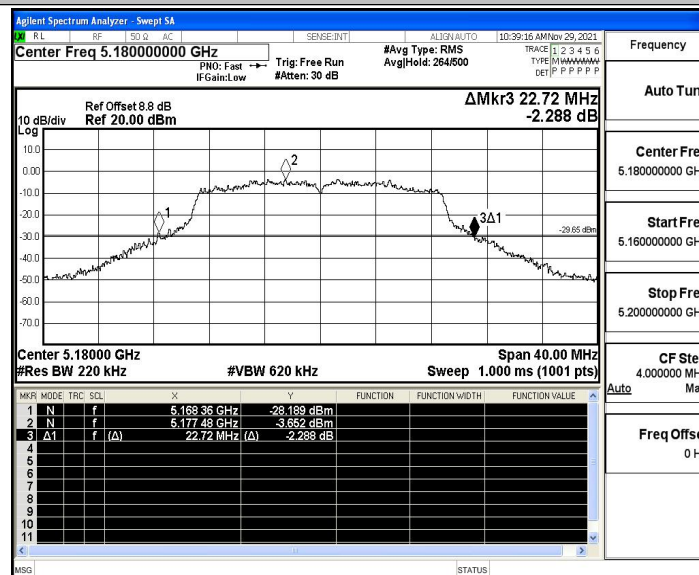
11A_Ant1_5200



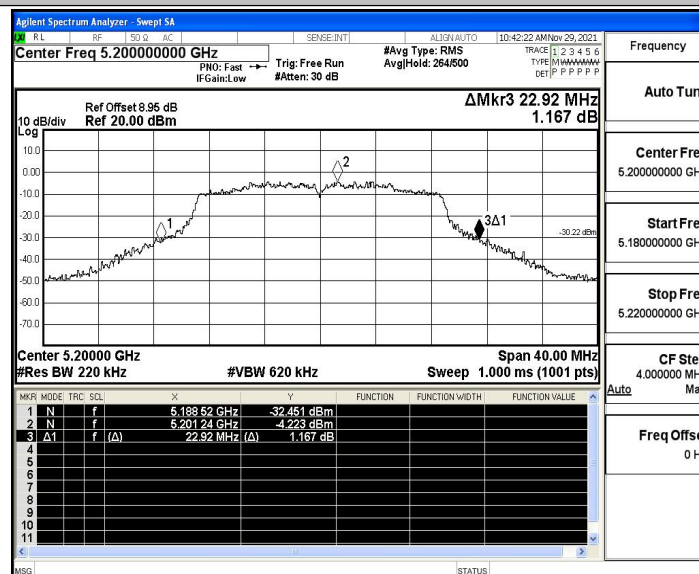
11A_Ant1_5240



11N20SISO_Ant1_5180

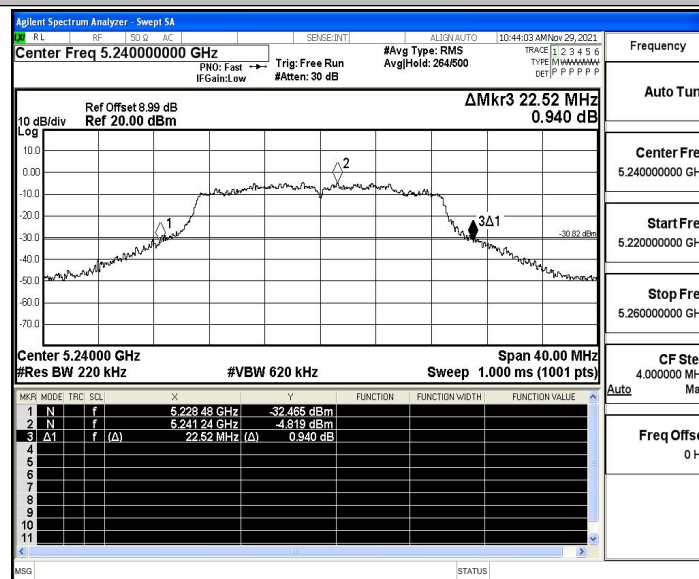


11N20SISO_Ant1_5200

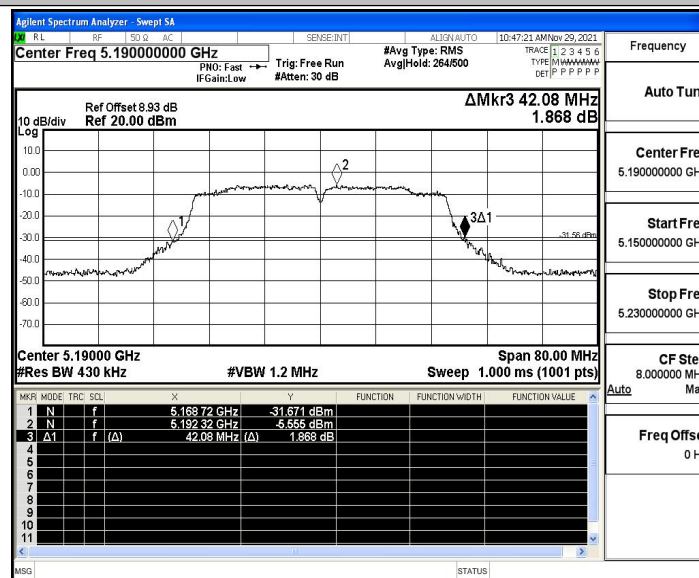




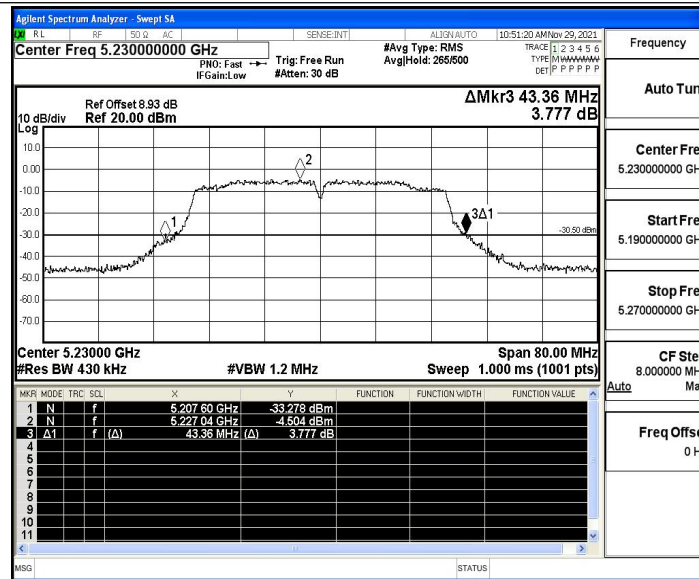
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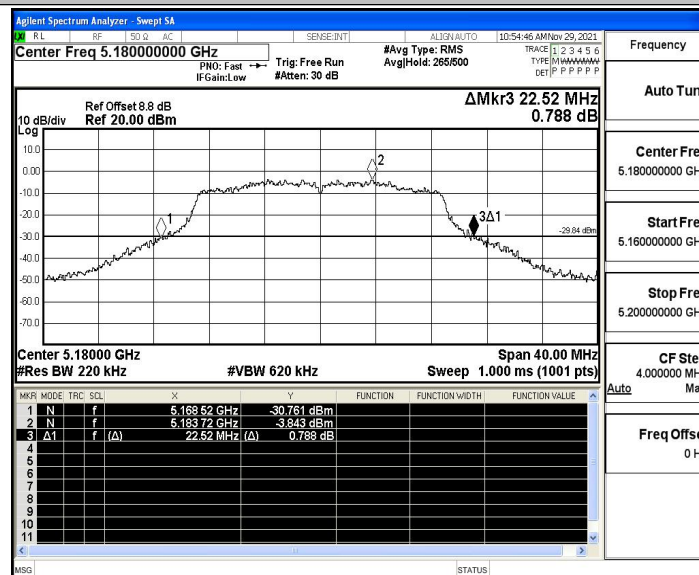
11N40SISO_Ant1_5190



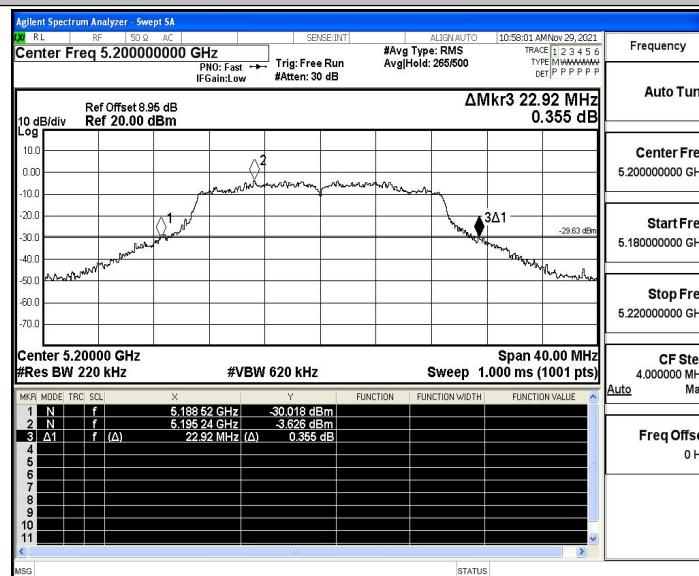
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

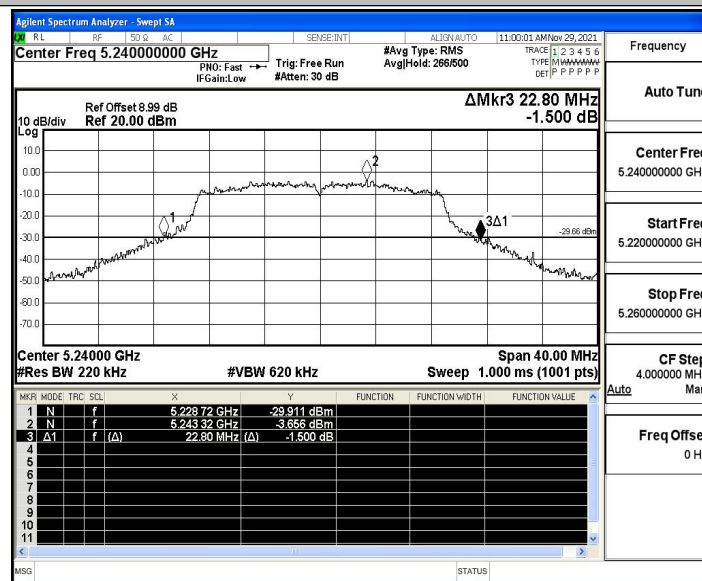


11AC20SISO_Ant1_5200

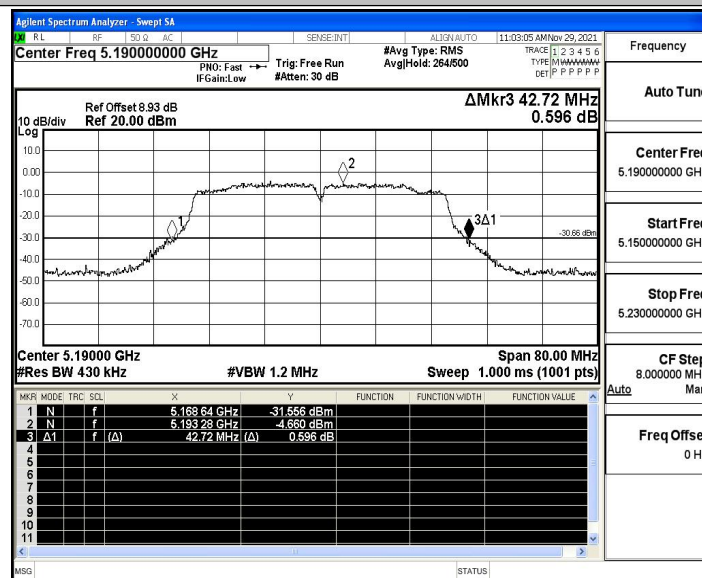




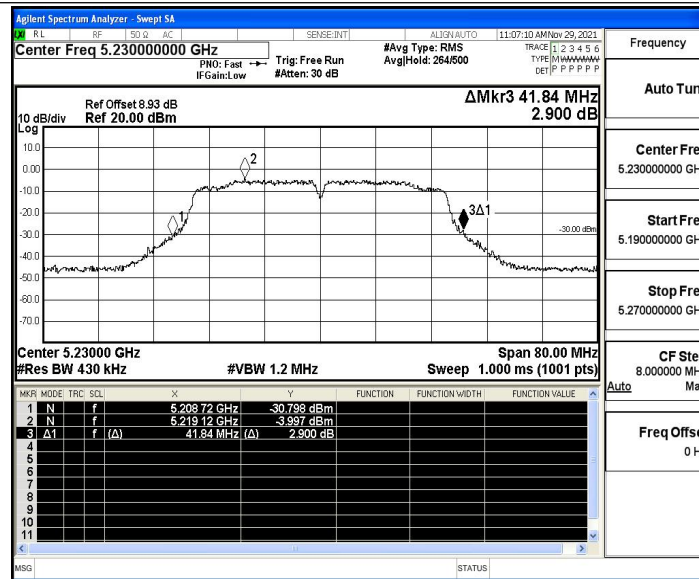
11AC20SISO_Ant1_5240



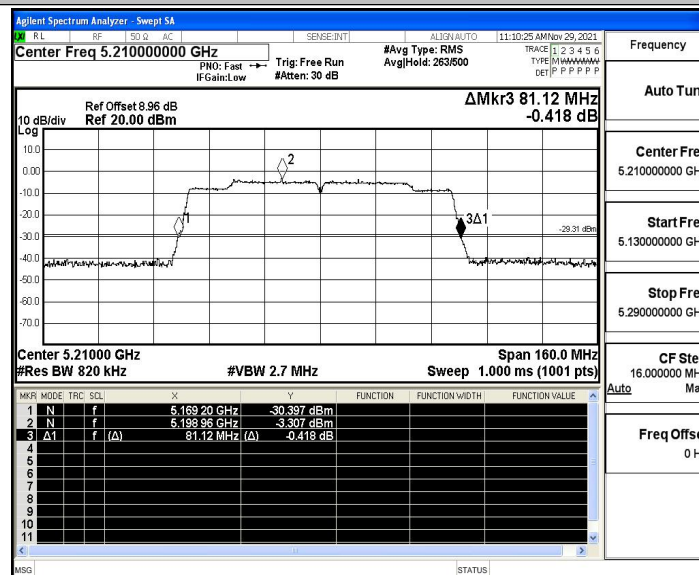
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	5.80	≤ 23.98	PASS
		5200	5.65	≤ 23.98	PASS
		5240	5.64	≤ 23.98	PASS
11N20SISO	Ant1	5180	5.68	≤ 23.98	PASS
		5200	6.08	≤ 23.98	PASS
		5240	5.58	≤ 23.98	PASS
11N40SISO	Ant1	5190	6.25	≤ 23.98	PASS
		5230	5.77	≤ 23.98	PASS
11AC20SISO	Ant1	5180	5.49	≤ 23.98	PASS
		5200	5.49	≤ 23.98	PASS
		5240	5.49	≤ 23.98	PASS
11AC40SISO	Ant1	5190	5.70	≤ 23.98	PASS
		5230	5.80	≤ 23.98	PASS
11AC80SISO	Ant1	5210	6.25	≤ 23.98	PASS

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



B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-4.79	≤11	PASS
		5200	-4.88	≤11	PASS
		5240	-4.86	≤11	PASS
11N20SISO	Ant1	5180	-5.05	≤11	PASS
		5200	-4.63	≤11	PASS
		5240	-5.16	≤11	PASS
11N40SISO	Ant1	5190	-7.9	≤11	PASS
		5230	-8.08	≤11	PASS
11AC20SISO	Ant1	5180	-5.02	≤11	PASS
		5200	-5.32	≤11	PASS
		5240	-5.11	≤11	PASS
11AC40SISO	Ant1	5190	-8.27	≤11	PASS
		5230	-7.84	≤11	PASS
11AC80SISO	Ant1	5210	-10.49	≤11	PASS

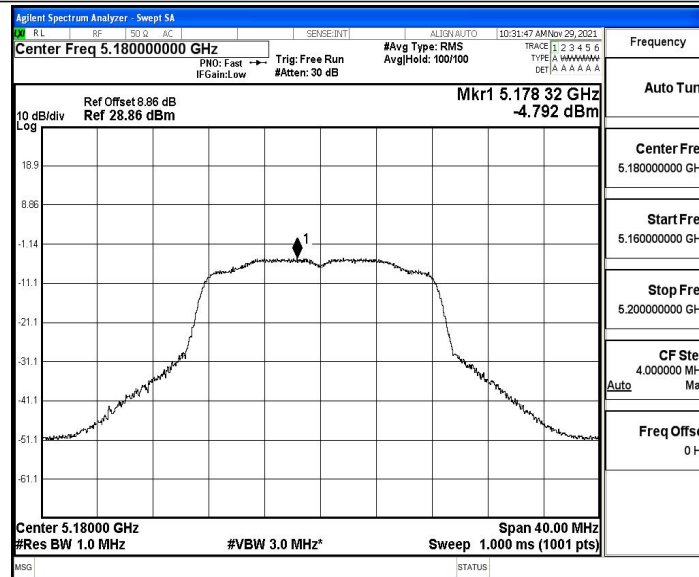
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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

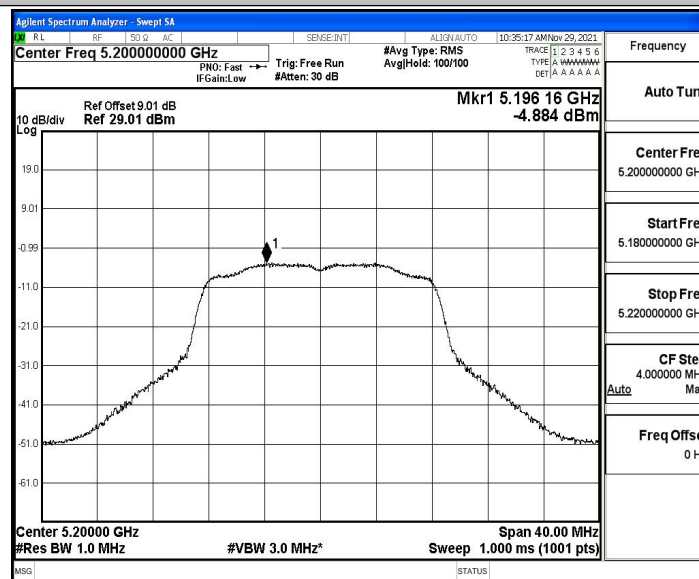


Test Graphs

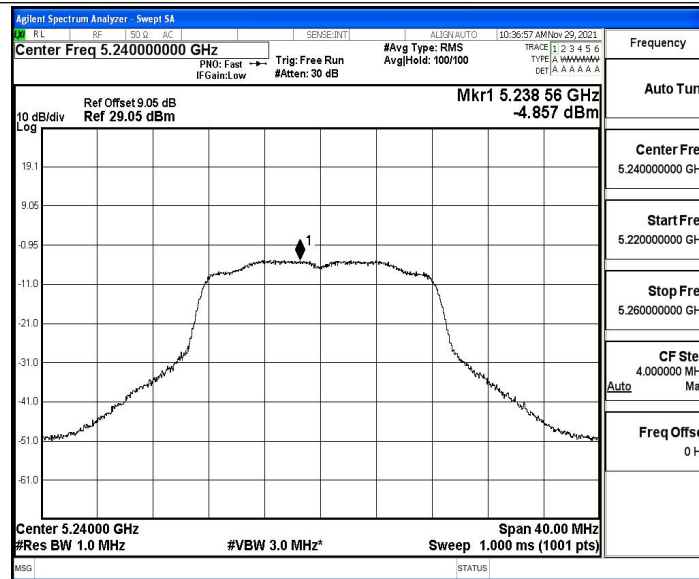
11A_Ant1_5180



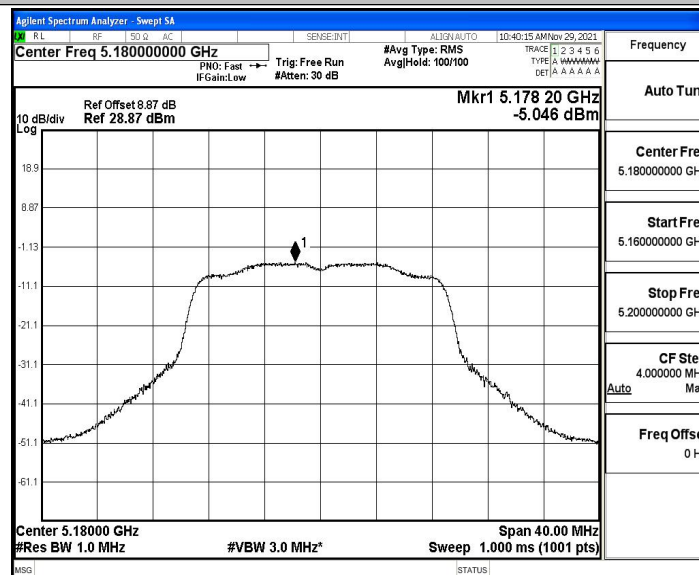
11A_Ant1_5200



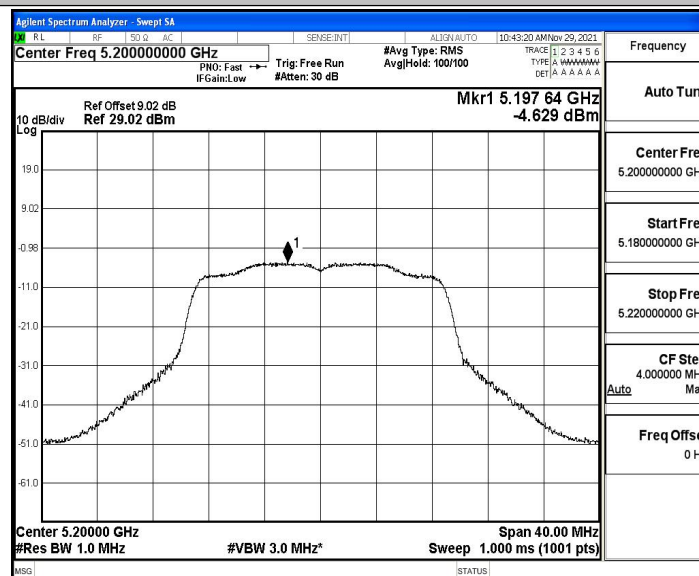
11A_Ant1_5240



11N20SISO_Ant1_5180

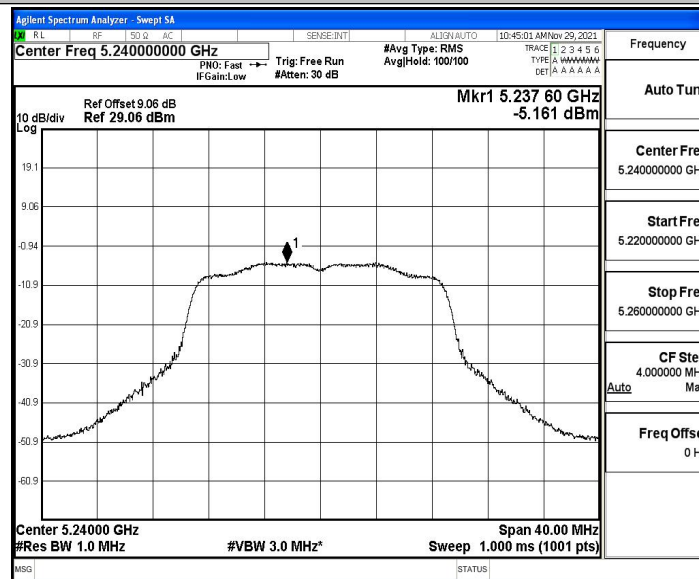


11N20SISO_Ant1_5200

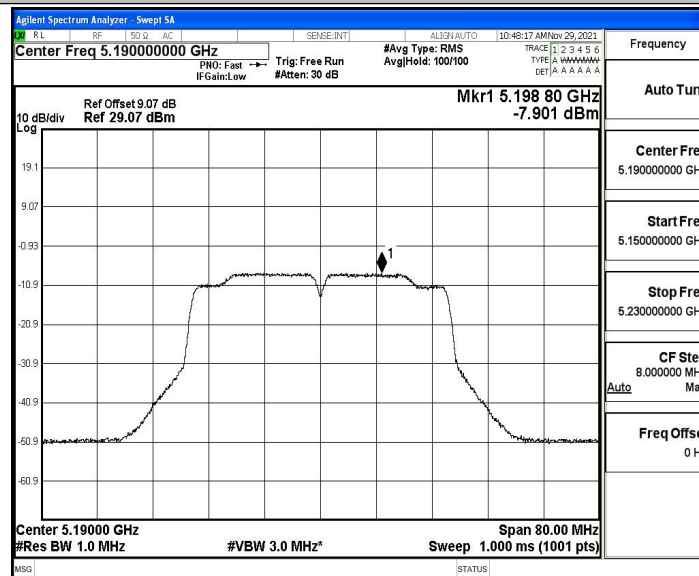




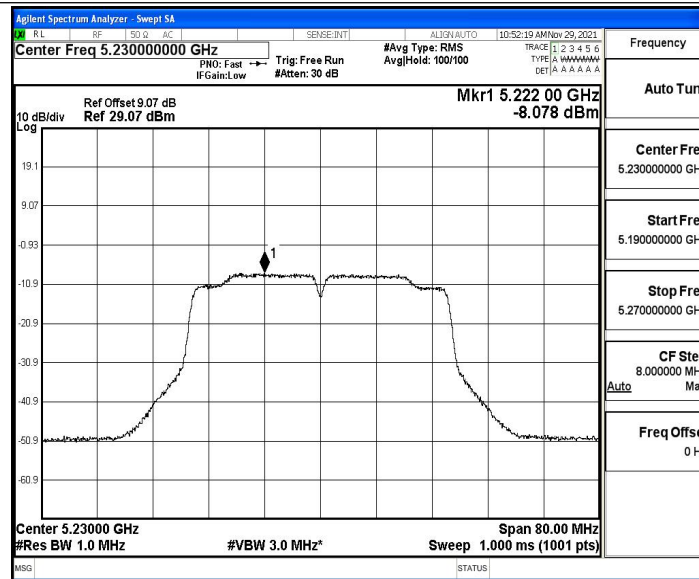
11N20SISO_Ant1_5240



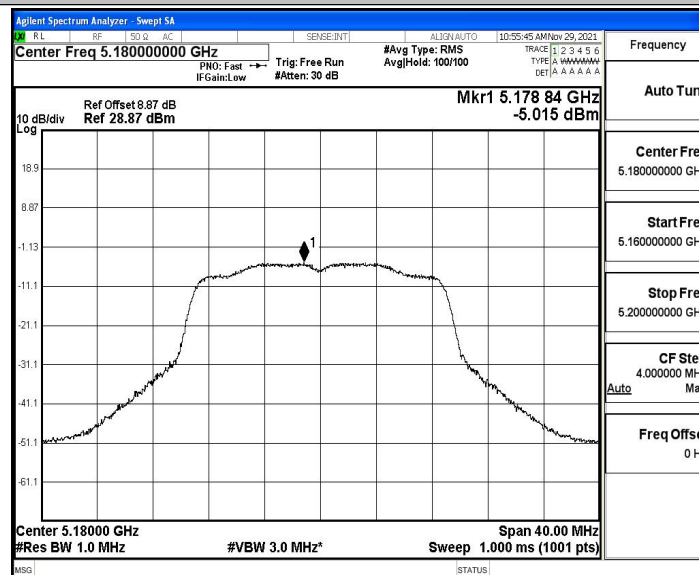
11N40SISO_Ant1_5190



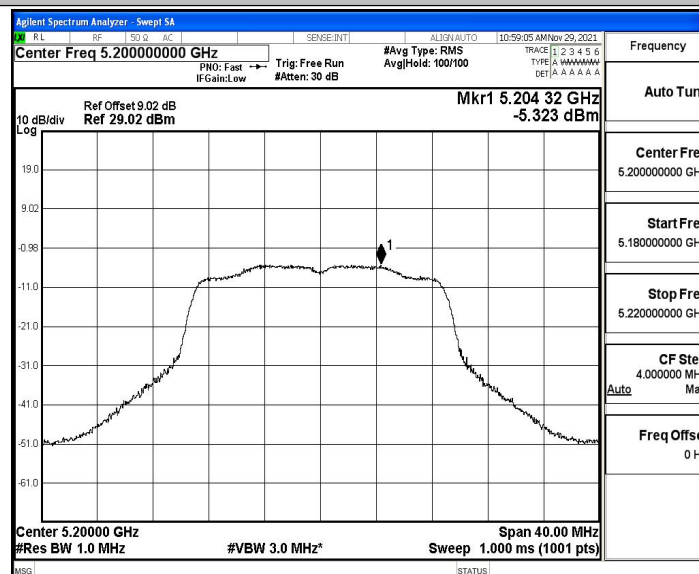
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

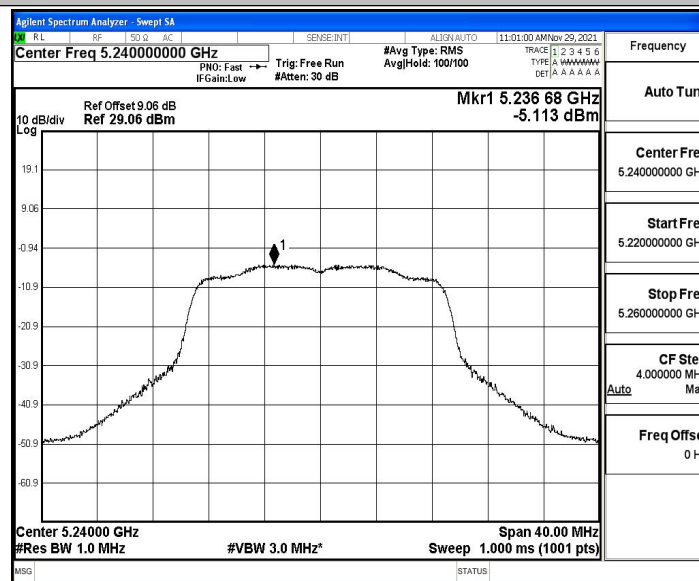


11AC20SISO_Ant1_5200

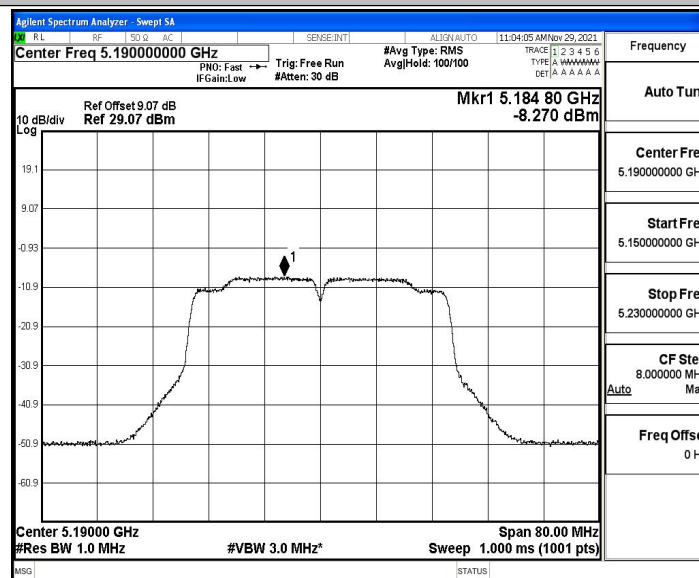




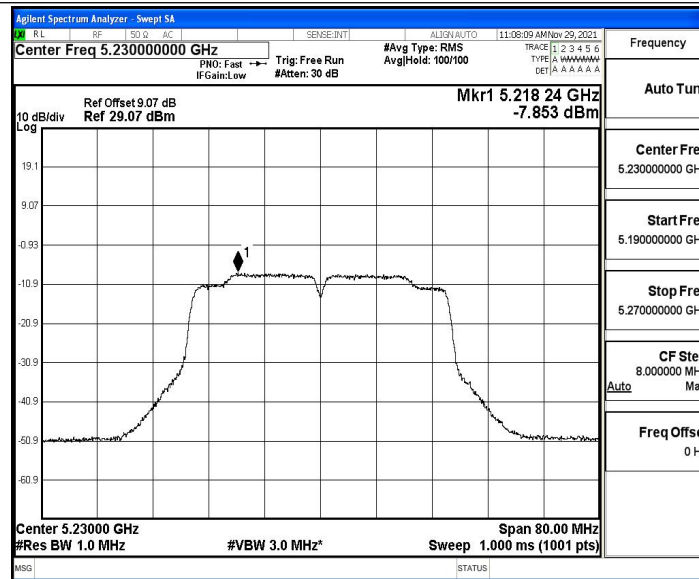
11AC20SISO_Ant1_5240



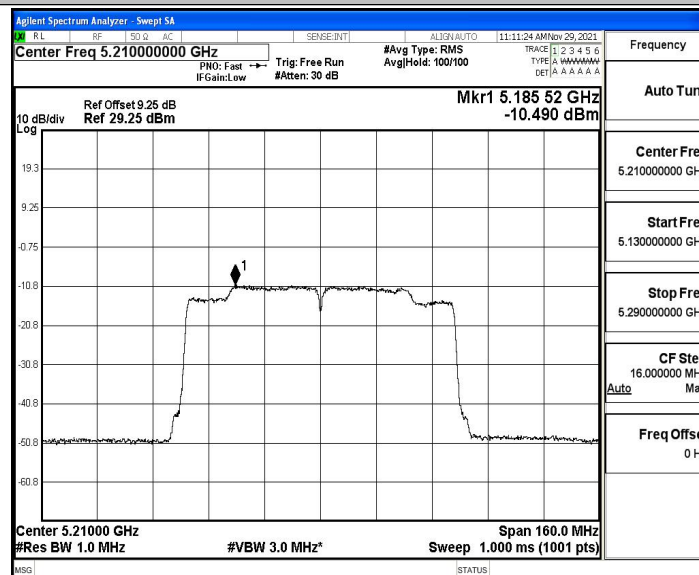
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





B.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	-48.12	≤-41.20	47.08	≤54	PASS
				AV	4808.000	-45.47	≤-41.20	49.73	≤54	PASS
				AV	5150.000	-46.08	≤-41.20	49.12	≤54	PASS
				Peak	4500.000	-44.3	≤-21.20	50.90	≤74	PASS
				Peak	4874.500	-38.03	≤-21.20	57.17	≤74	PASS
				Peak	5150.000	-42.73	≤-21.20	52.47	≤74	PASS
		High	5240	AV	5350.000	-46.8	≤-41.20	48.40	≤54	PASS
				AV	5361.600	-45.82	≤-41.20	49.38	≤54	PASS
				AV	5460.000	-47.76	≤-41.20	47.44	≤54	PASS
				Peak	5350.000	-43.66	≤-21.20	51.54	≤74	PASS
				Peak	5352.960	-38.37	≤-21.20	56.83	≤74	PASS
				Peak	5460.000	-42.72	≤-21.20	52.48	≤74	PASS
11N20SIS O	Ant1	Low	5180	AV	4500.000	-48.1	≤-41.20	47.10	≤54	PASS
				AV	4832.500	-45.18	≤-41.20	50.02	≤54	PASS
				AV	5150.000	-45.87	≤-41.20	49.33	≤54	PASS
				Peak	4500.000	-43.45	≤-21.20	51.75	≤74	PASS
				Peak	5125.800	-38.63	≤-21.20	56.57	≤74	PASS
				Peak	5150.000	-41.11	≤-21.20	54.09	≤74	PASS
		High	5240	AV	5350.000	-46.99	≤-41.20	48.21	≤54	PASS
				AV	5382.000	-45.49	≤-41.20	49.71	≤54	PASS
				AV	5460.000	-46.81	≤-41.20	48.39	≤54	PASS
				Peak	5350.000	-42.23	≤-21.20	52.97	≤74	PASS
				Peak	5380.560	-39.25	≤-21.20	55.95	≤74	PASS
				Peak	5460.000	-44.63	≤-21.20	50.57	≤74	PASS
11N40SIS O	Ant1	Low	5190	AV	4500.000	-48.97	≤-41.20	46.23	≤54	PASS
				AV	4809.400	-46.8	≤-41.20	48.40	≤54	PASS
				AV	5150.000	-46.91	≤-41.20	48.29	≤54	PASS
				Peak	4500.000	-41.87	≤-21.20	53.33	≤74	PASS
				Peak	4785.600	-36.5	≤-21.20	58.70	≤74	PASS
				Peak	5150.000	-39.49	≤-21.20	55.71	≤74	PASS
		High	5230	AV	5350.000	-47.59	≤-41.20	47.61	≤54	PASS
				AV	5369.780	-47.42	≤-41.20	47.78	≤54	PASS
				AV	5460.000	-47.92	≤-41.20	47.28	≤54	PASS
				Peak	5350.000	-39.02	≤-21.20	56.18	≤74	PASS
				Peak	5393.700	-37.9	≤-21.20	57.30	≤74	PASS
				Peak	5460.000	-40.67	≤-21.20	54.53	≤74	PASS
11AC20SI	Ant1	Low	5180	AV	4500.000	-48.46	≤-41.20	46.74	≤54	PASS



SO				AV	4869.600	-45.4	≤-41.20	49.80	≤54	PASS
				AV	5150.000	-46.51	≤-41.20	48.69	≤54	PASS
				Peak	4500.000	-44.54	≤-21.20	50.66	≤74	PASS
				Peak	4720.500	-38.02	≤-21.20	57.18	≤74	PASS
				Peak	5150.000	-41.74	≤-21.20	53.46	≤74	PASS
		High	5240	AV	5350.000	-46.8	≤-41.20	48.40	≤54	PASS
				AV	5357.280	-45.74	≤-41.20	49.46	≤54	PASS
				AV	5460.000	-47.31	≤-41.20	47.89	≤54	PASS
				Peak	5350.000	-42.36	≤-21.20	52.84	≤74	PASS
				Peak	5414.640	-39.01	≤-21.20	56.19	≤74	PASS
				Peak	5460.000	-43.08	≤-21.20	52.12	≤74	PASS
11AC40SI SO	Ant1	Low	5190	AV	4500.000	-48.96	≤-41.20	46.24	≤54	PASS
				AV	5137.000	-46.77	≤-41.20	48.43	≤54	PASS
				AV	5150.000	-46.93	≤-41.20	48.27	≤54	PASS
				Peak	4500.000	-41.85	≤-21.20	53.35	≤74	PASS
				Peak	5042.500	-36.88	≤-21.20	58.32	≤74	PASS
				Peak	5150.000	-40	≤-21.20	55.20	≤74	PASS
		High	5230	AV	5350.000	-47.67	≤-41.20	47.53	≤54	PASS
				AV	5352.100	-47.27	≤-41.20	47.93	≤54	PASS
				AV	5460.000	-47.78	≤-41.20	47.42	≤54	PASS
				Peak	5350.000	-41.72	≤-21.20	53.48	≤74	PASS
				Peak	5399.940	-37.51	≤-21.20	57.69	≤74	PASS
				Peak	5460.000	-42.55	≤-21.20	52.65	≤74	PASS
11AC80SI SO	Ant1	Low	5210	AV	4500.000	-48.56	≤-41.20	46.64	≤54	PASS
				AV	5143.500	-45.67	≤-41.20	49.53	≤54	PASS
				AV	5150.000	-46.07	≤-41.20	49.13	≤54	PASS
				Peak	4500.000	-43.04	≤-21.20	52.16	≤74	PASS
				Peak	5127.000	-37.15	≤-21.20	58.05	≤74	PASS
				Peak	5150.000	-37.56	≤-21.20	57.64	≤74	PASS
		High	5210	AV	5350.000	-47.54	≤-41.20	47.66	≤54	PASS
				AV	5360.040	-46.95	≤-41.20	48.25	≤54	PASS
				AV	5460.000	-47.65	≤-41.20	47.55	≤54	PASS
				Peak	5350.000	-40.37	≤-21.20	54.83	≤74	PASS
				Peak	5409.880	-37.49	≤-21.20	57.71	≤74	PASS
				Peak	5460.000	-41.5	≤-21.20	53.70	≤74	PASS

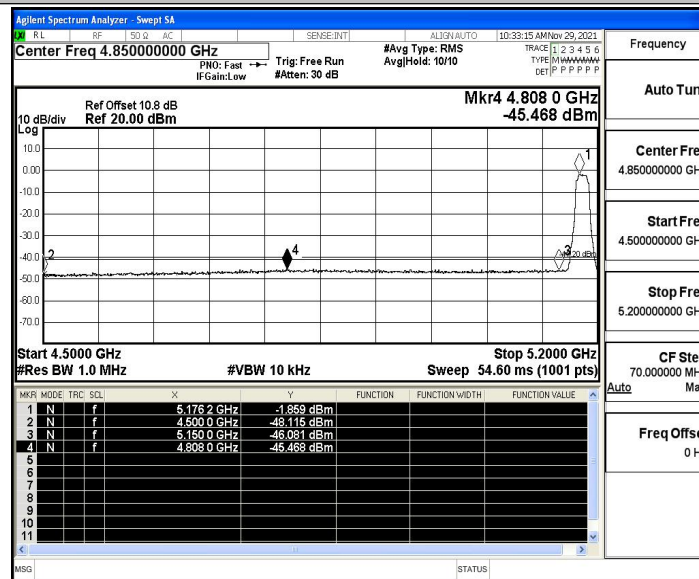
Note:

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.

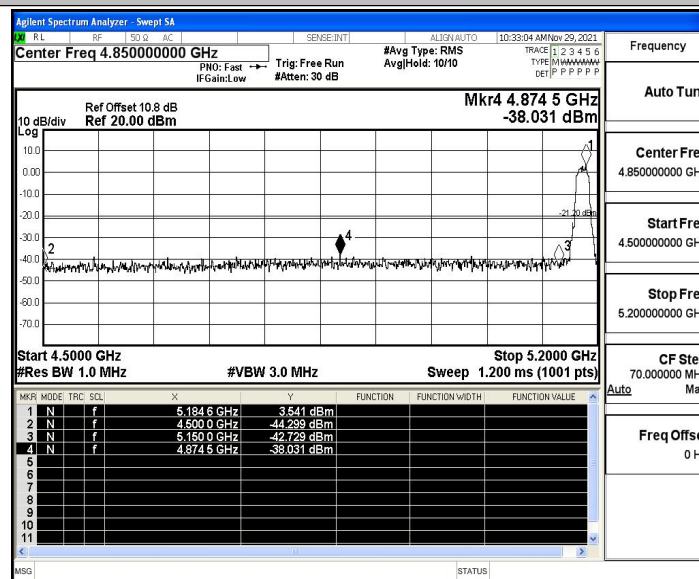


Test Graphs

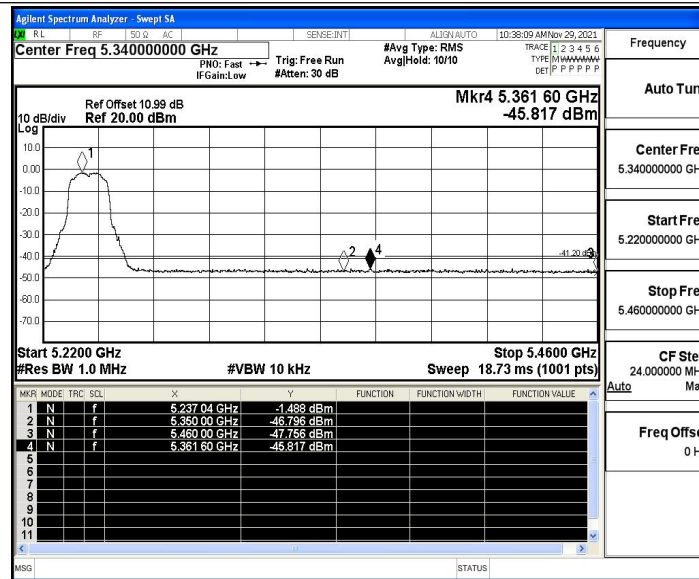
11A_Ant1_Low_5180_AV



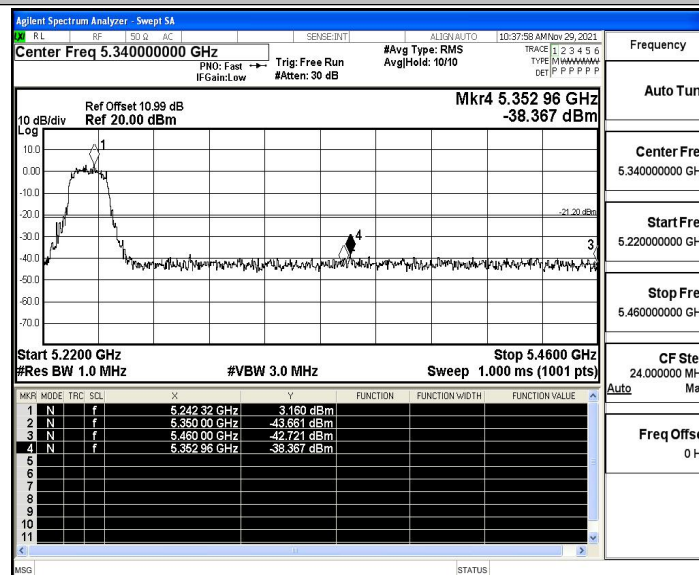
11A_Ant1_Low_5180_Peak



11A_Ant1_High_5240_AV



11A_Ant1_High_5240_Peak



11N20SISO_Ant1_Low_5180_AV

