



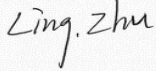

Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Tablet

Test Model: 8LA1

Environmental Conditions

Temperature:	22.5°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	 Ling Zhu
Supervised by:	 Li Huan



D.1 Emission Bandwidth

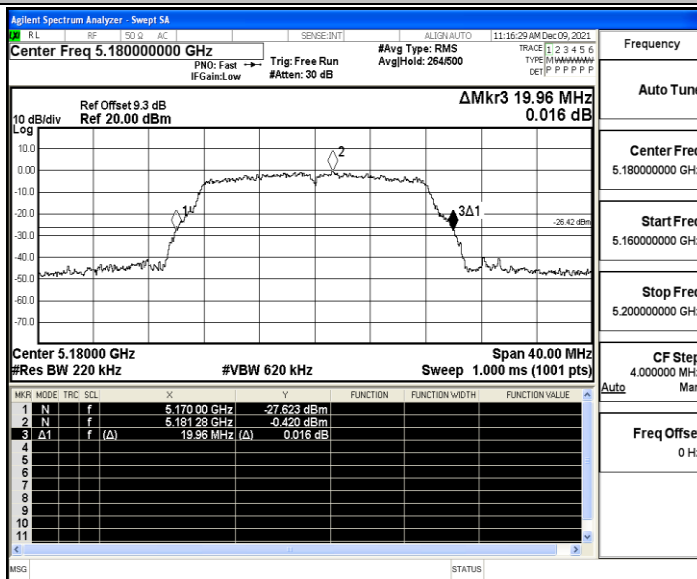
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.960	5170.000	5189.960	---	PASS
		5200	19.600	5190.200	5209.800	---	PASS
		5240	19.760	5230.040	5249.800	---	PASS
11N20SISO	Ant1	5180	20.160	5169.960	5190.120	---	PASS
		5200	20.080	5190.000	5210.080	---	PASS
		5240	20.200	5229.960	5250.160	---	PASS
11N40SISO	Ant1	5190	40.400	5169.920	5210.320	---	PASS
		5230	40.240	5209.840	5250.080	---	PASS
11AC20SISO	Ant1	5180	20.120	5170.000	5190.120	---	PASS
		5200	20.080	5190.000	5210.080	---	PASS
		5240	20.160	5229.880	5250.040	---	PASS
11AC40SISO	Ant1	5190	40.560	5169.520	5210.080	---	PASS
		5230	40.560	5209.840	5250.400	---	PASS
11AC80SISO	Ant1	5210	80.480	5169.680	5250.160	---	PASS

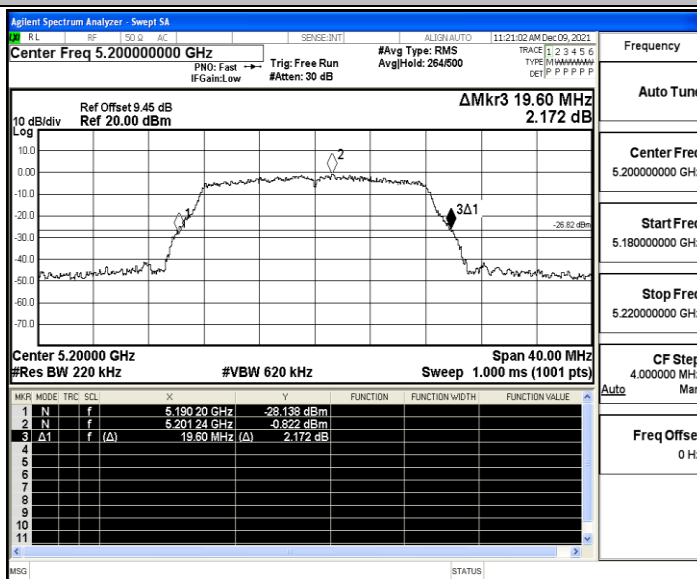


Test Graphs

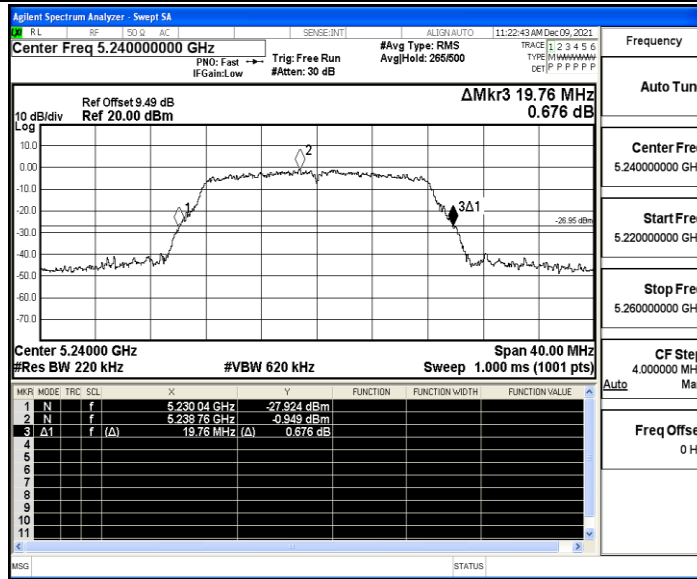
11A_Ant1_5180



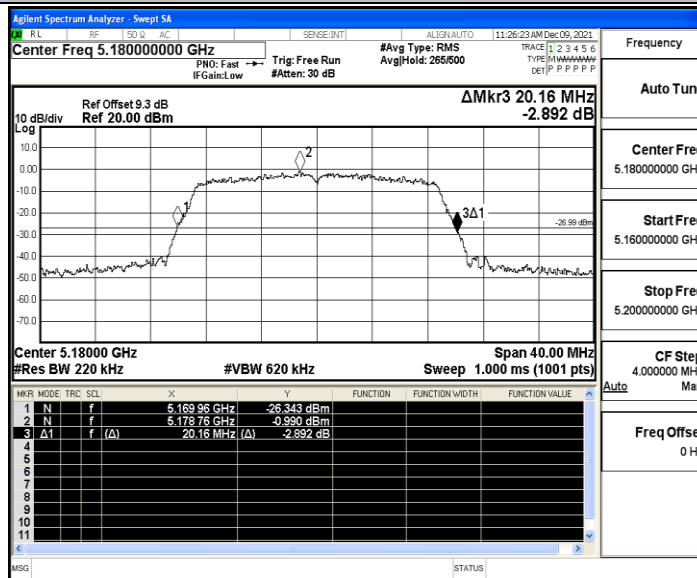
11A_Ant1_5200



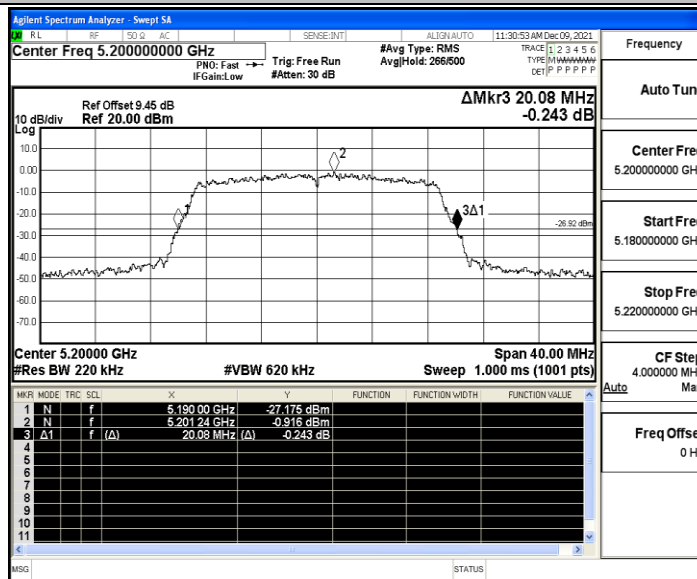
11A_Ant1_5240



11N20SISO_Ant1_5180

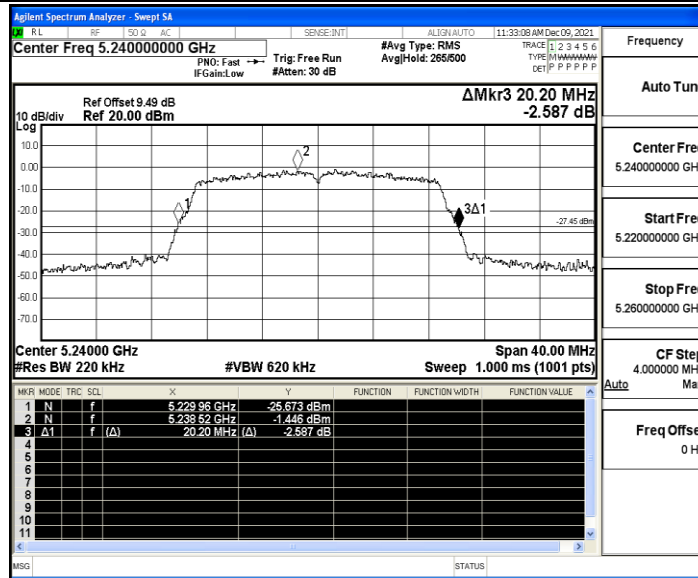


11N20SISO_Ant1_5200

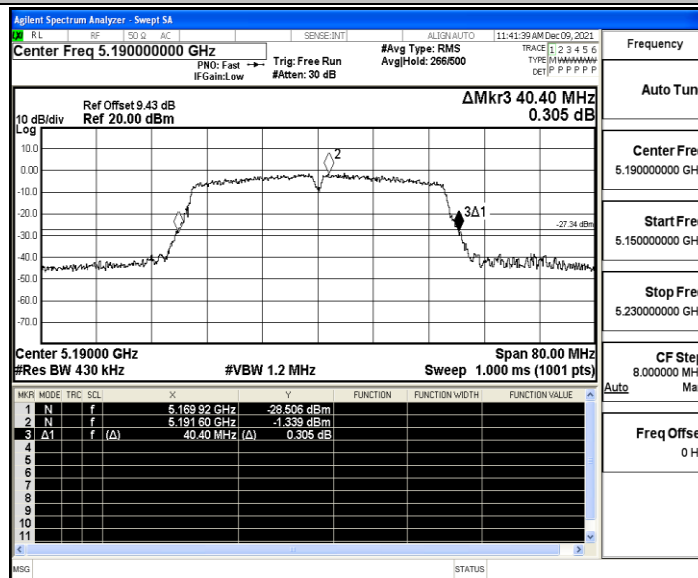




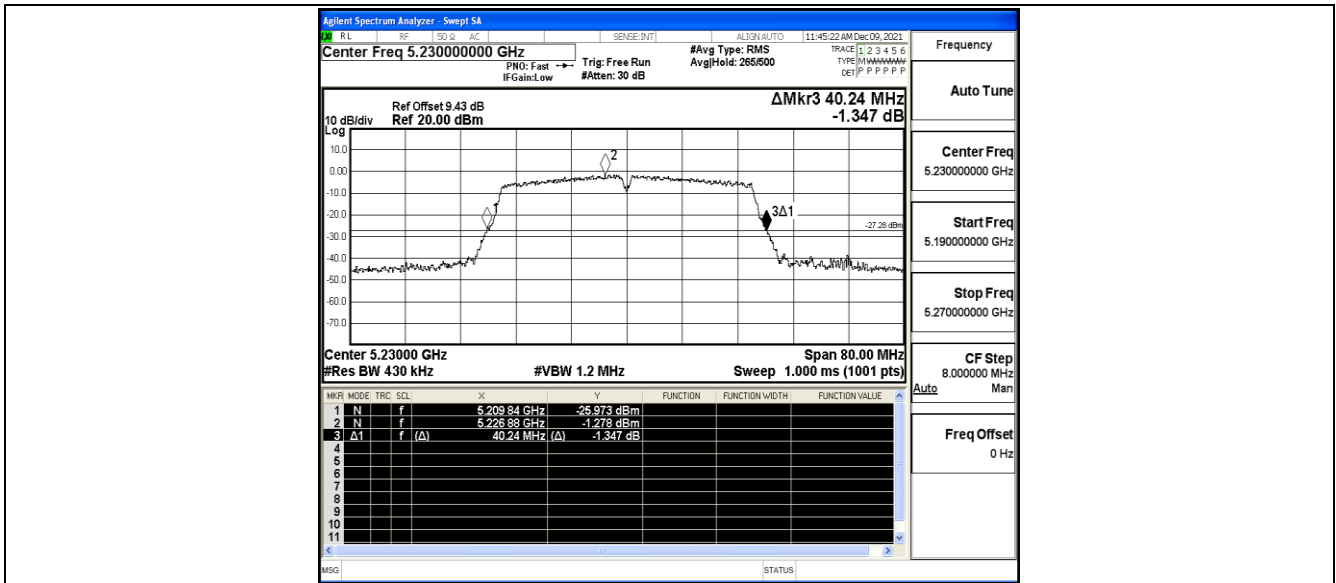
11N20SISO_Ant1_5240



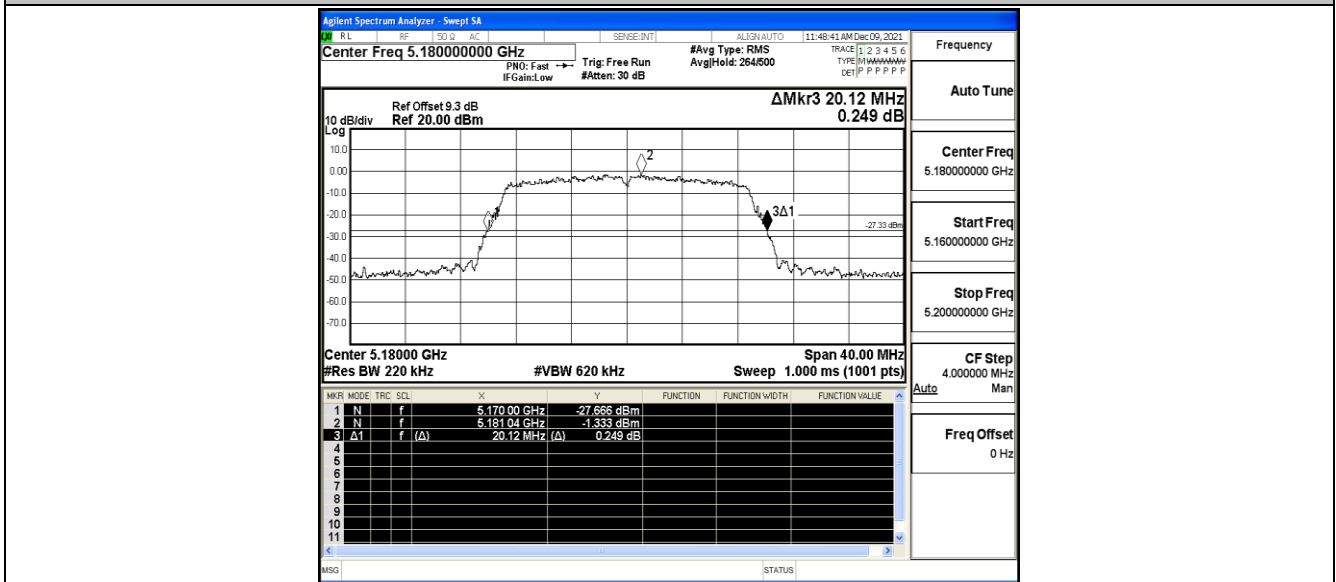
11N40SISO_Ant1_5190



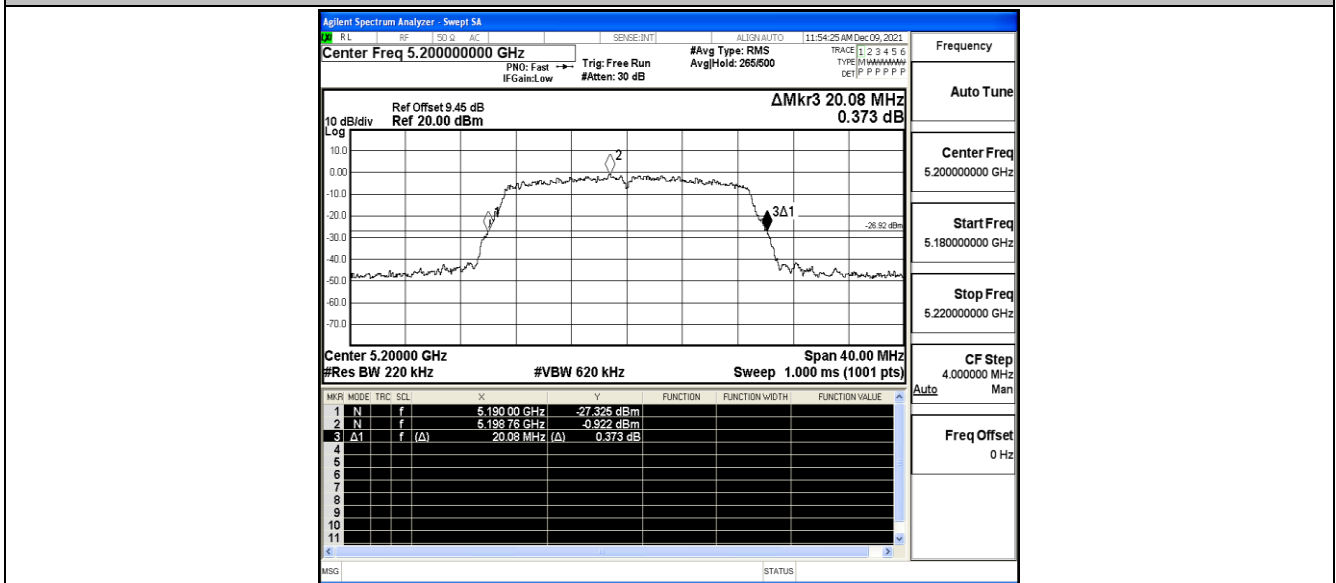
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

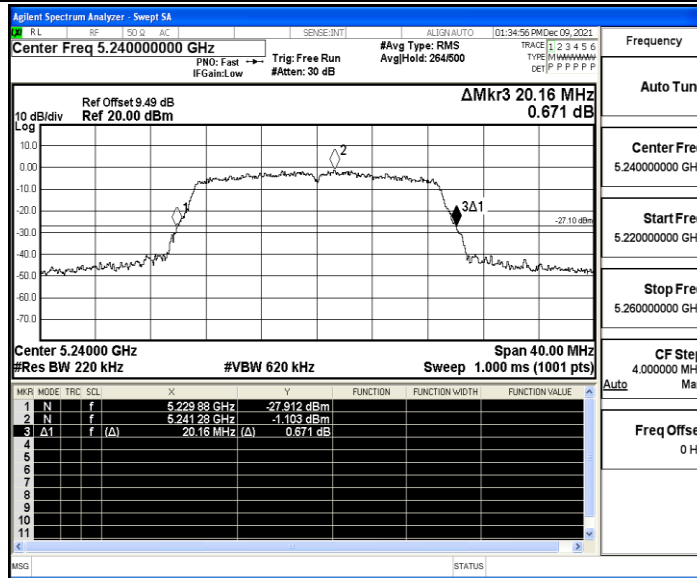


11AC20SISO_Ant1_5200

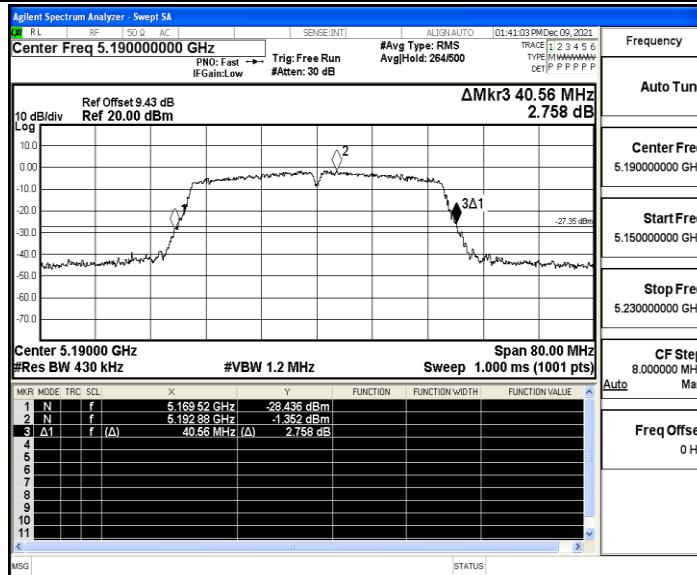




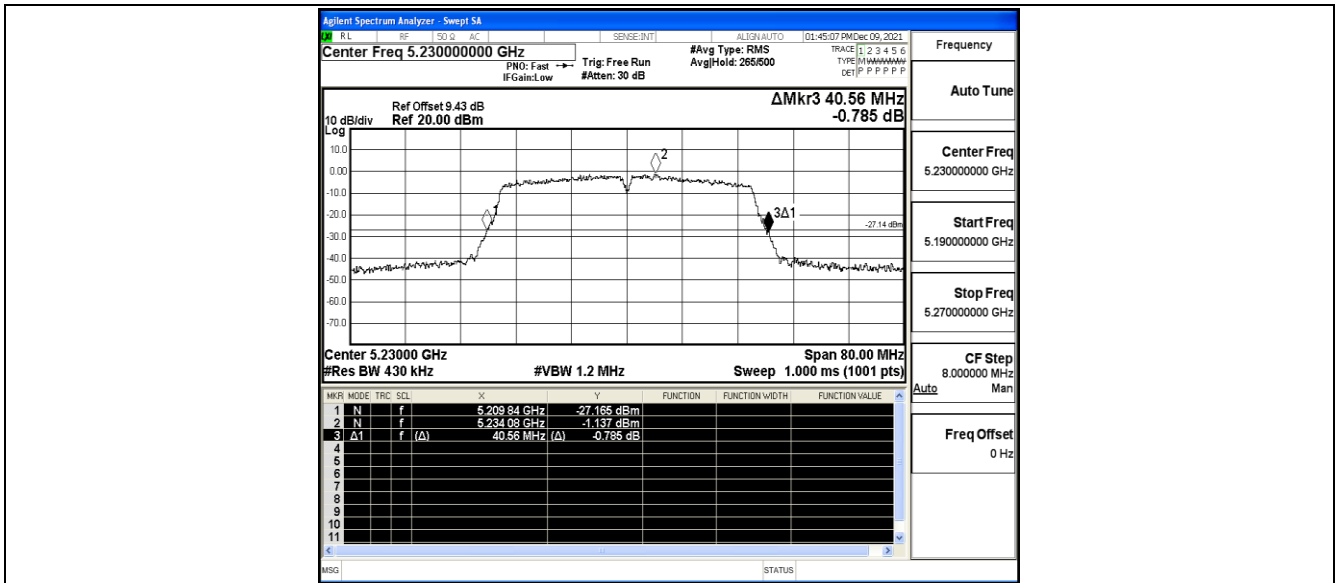
11AC20SISO_Ant1_5240



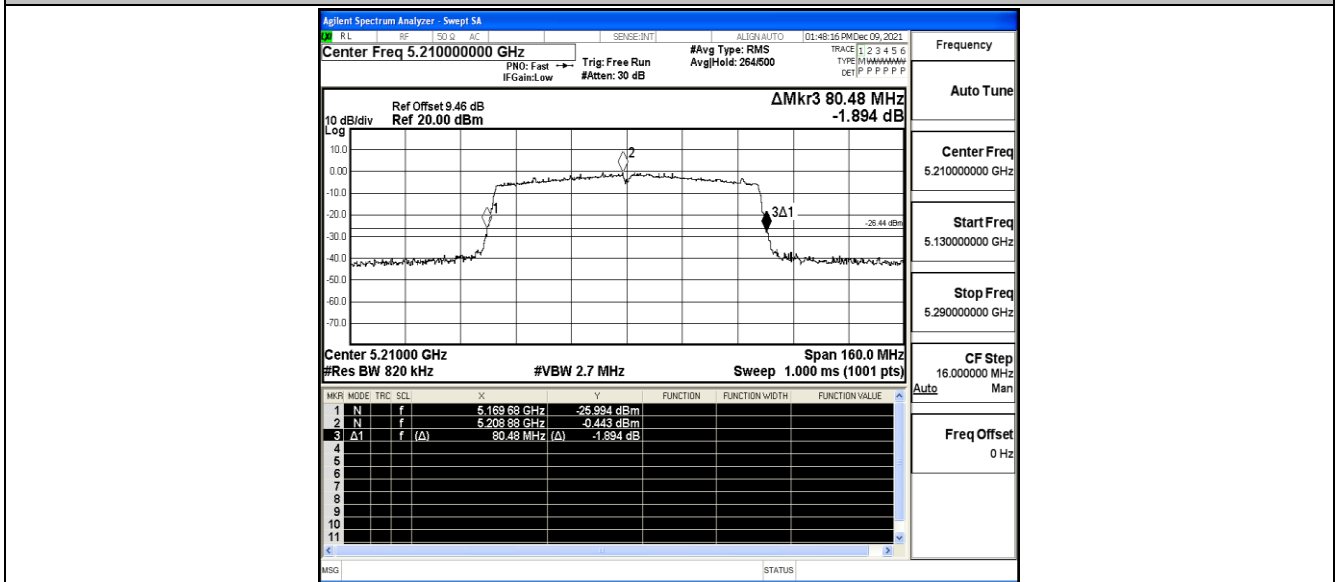
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





D.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	12.35	≤ 23.98	PASS
		5200	13.21	≤ 23.98	PASS
		5240	12.31	≤ 23.98	PASS
11N20SISO	Ant1	5180	12.35	≤ 23.98	PASS
		5200	12.35	≤ 23.98	PASS
		5240	13.32	≤ 23.98	PASS
11N40SISO	Ant1	5190	12.36	≤ 23.98	PASS
		5230	12.52	≤ 23.98	PASS
11AC20SISO	Ant1	5180	13.36	≤ 23.98	PASS
		5200	12.96	≤ 23.98	PASS
		5240	13.11	≤ 23.98	PASS
11AC40SISO	Ant1	5190	13.36	≤ 23.98	PASS
		5230	12.85	≤ 23.98	PASS
11AC80SISO	Ant1	5210	13.21	≤ 23.98	PASS

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



D.3 Maximum power spectral density

Test Result

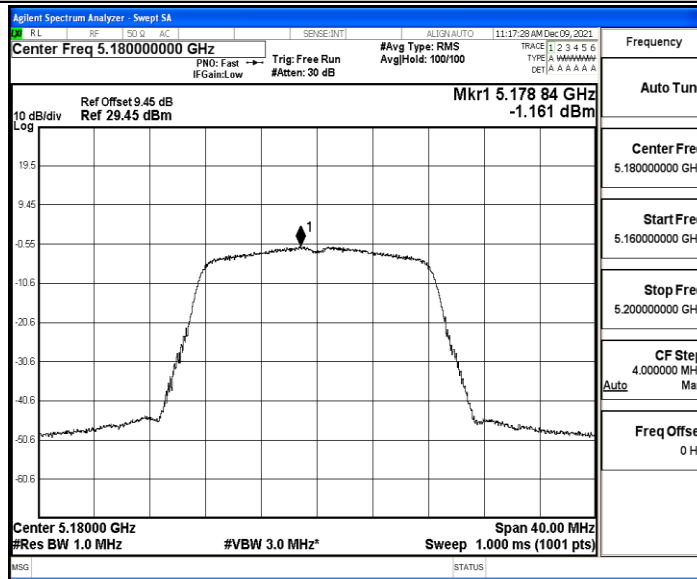
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-1.16	≤11	PASS
		5200	-1.43	≤11	PASS
		5240	-1.63	≤11	PASS
11N20SISO	Ant1	5180	-2.18	≤11	PASS
		5200	-1.74	≤11	PASS
		5240	-2.15	≤11	PASS
11N40SISO	Ant1	5190	-4.61	≤11	PASS
		5230	-4.55	≤11	PASS
11AC20SISO	Ant1	5180	-1.96	≤11	PASS
		5200	-1.96	≤11	PASS
		5240	-2.16	≤11	PASS
11AC40SISO	Ant1	5190	-4.55	≤11	PASS
		5230	-4.55	≤11	PASS
11AC80SISO	Ant1	5210	-7.44	≤11	PASS

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

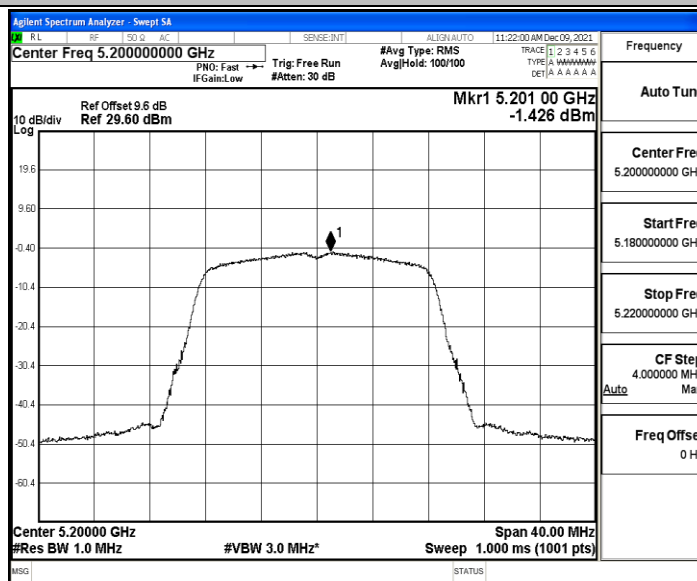


Test Graphs

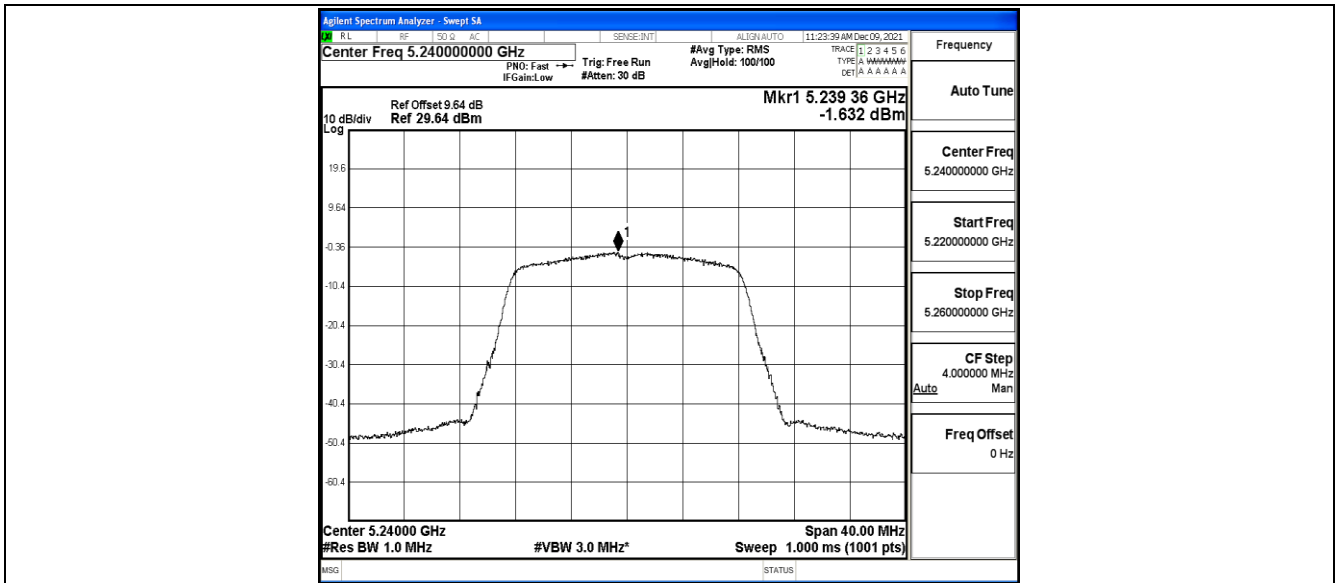
11A_Ant1_5180



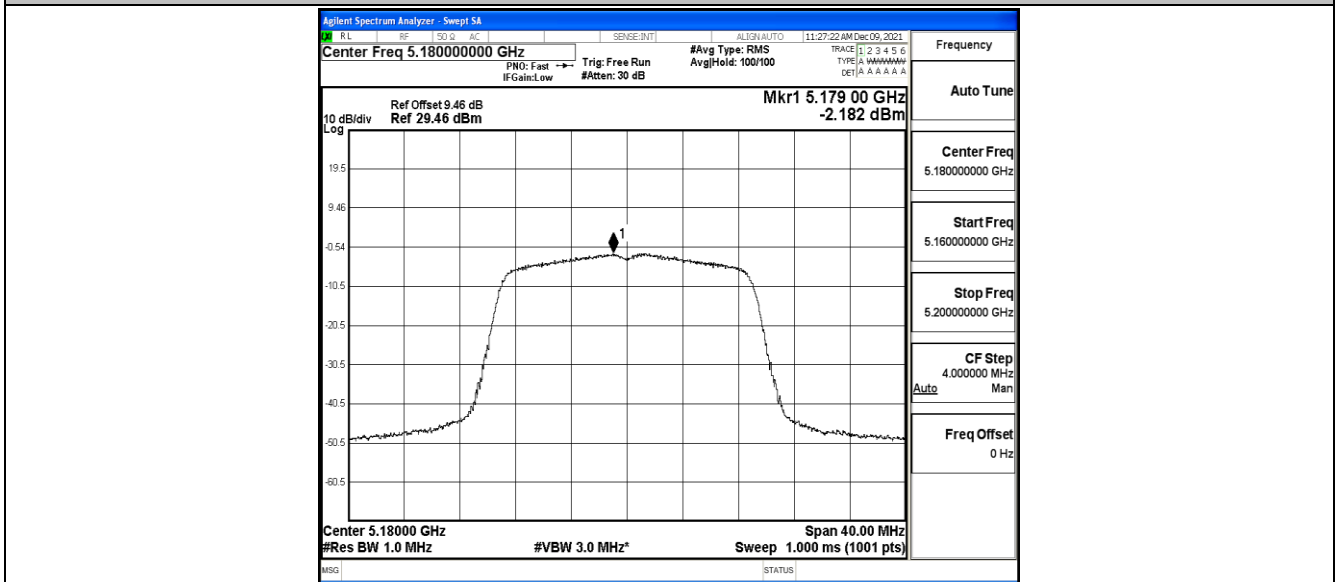
11A_Ant1_5200



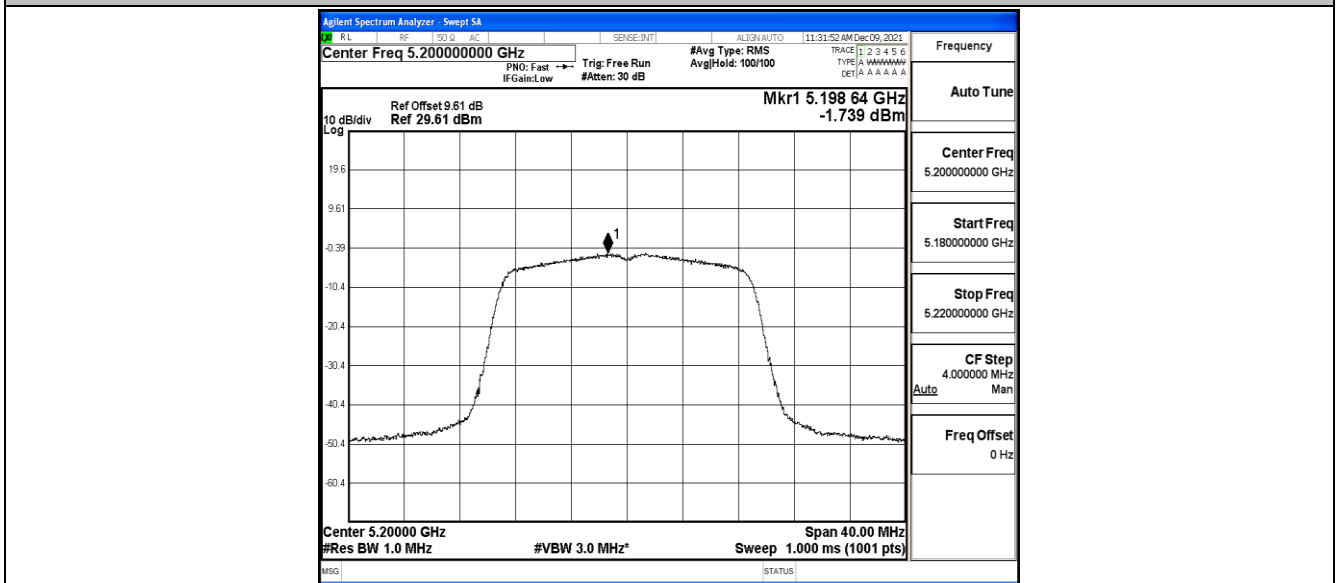
11A_Ant1_5240



11N20SISO_Ant1_5180

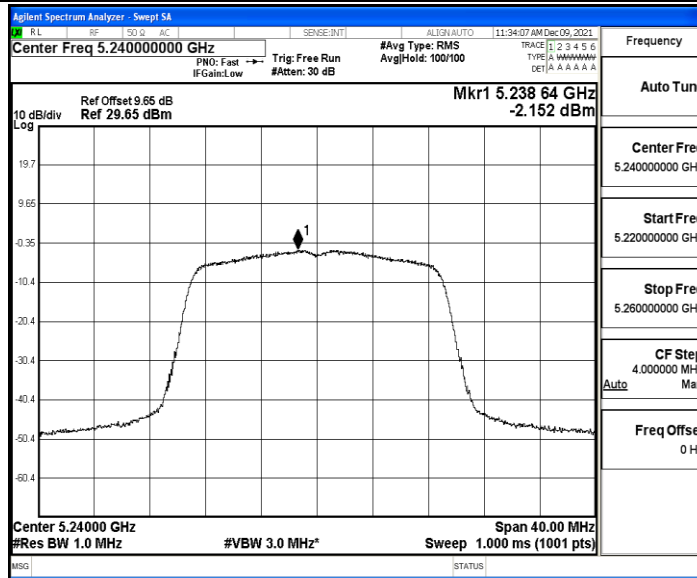


11N20SISO_Ant1_5200

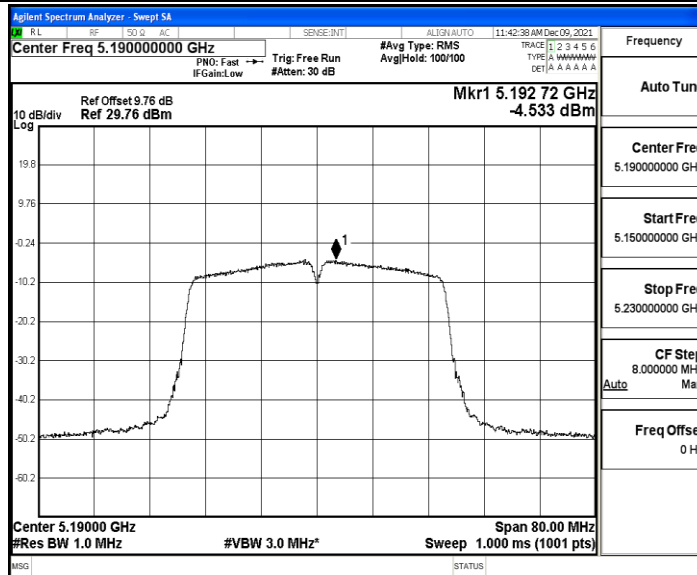




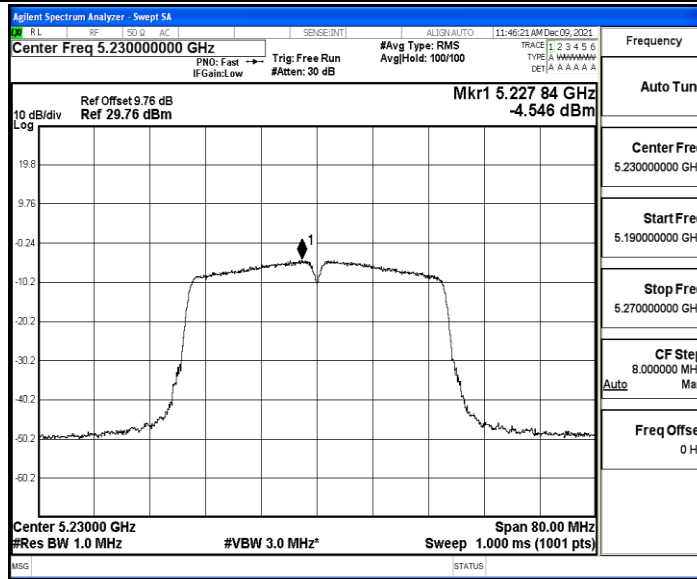
11N20SISO_Ant1_5240



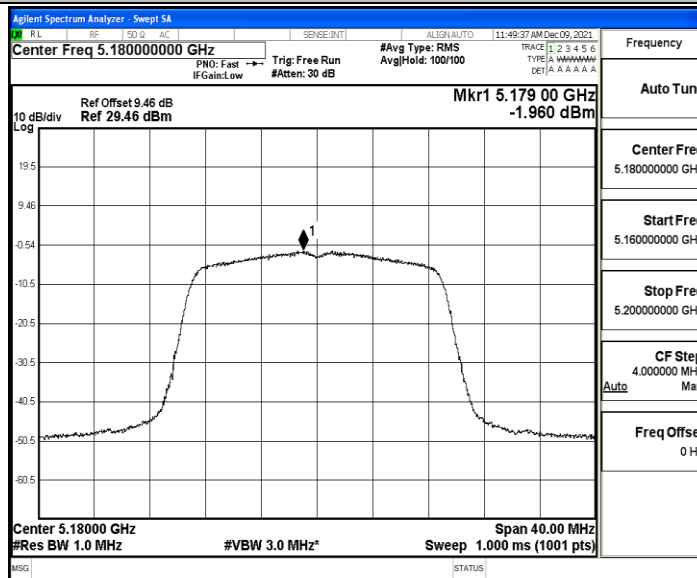
11N40SISO_Ant1_5190



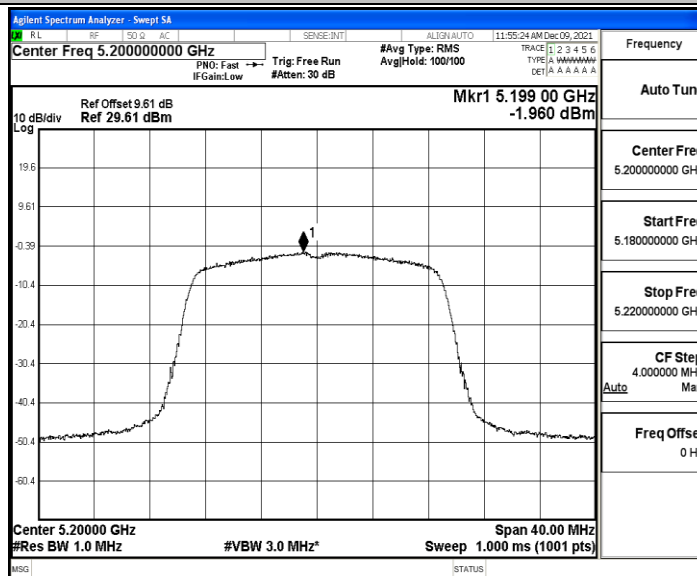
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

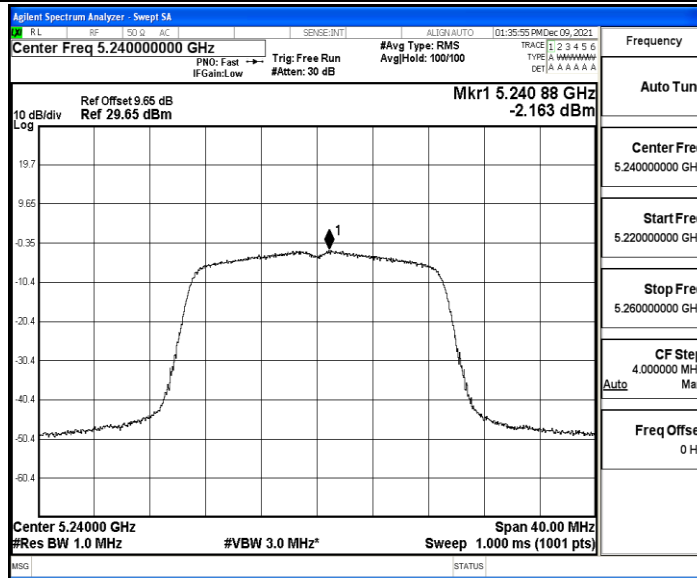


11AC20SISO_Ant1_5200

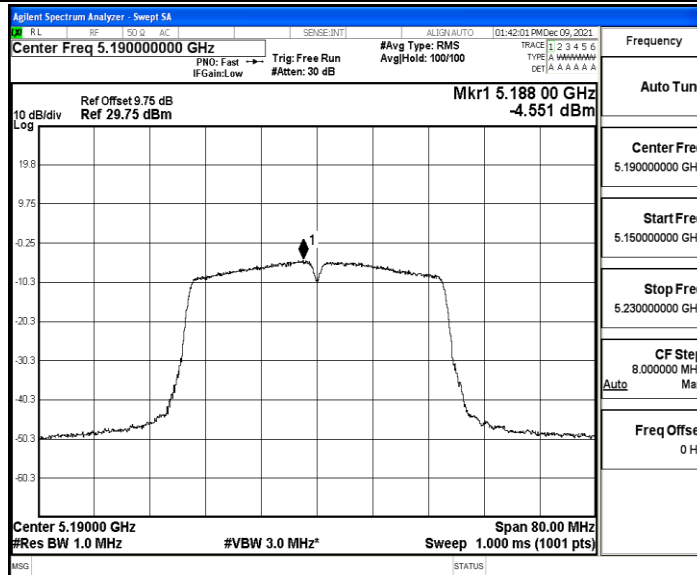




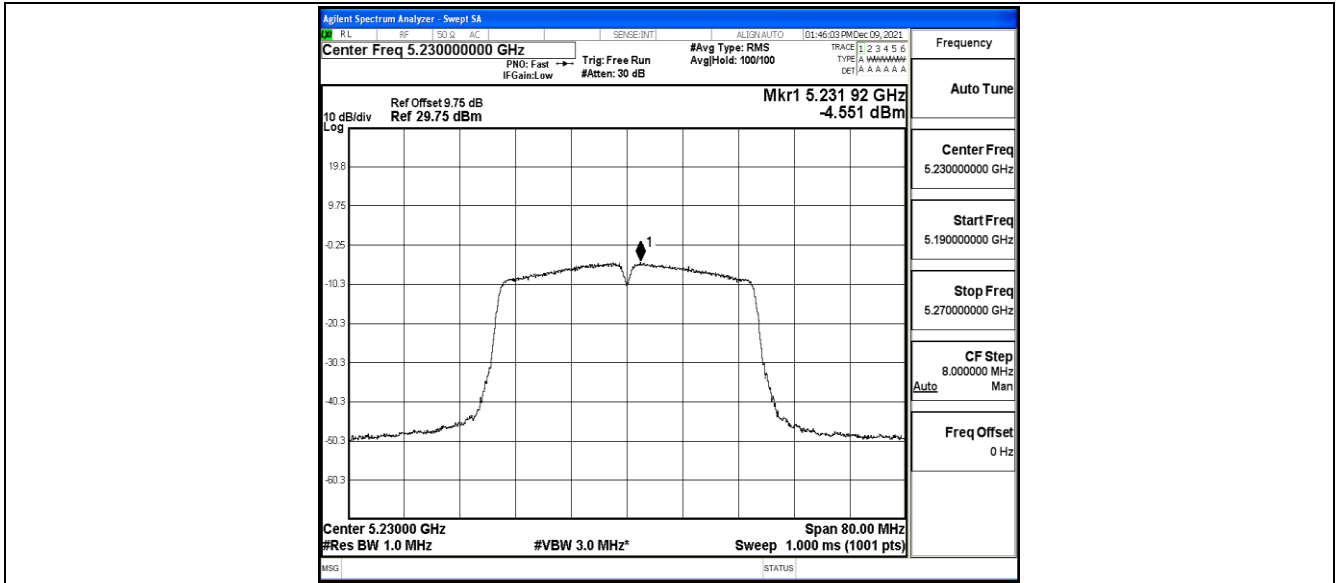
11AC20SISO_Ant1_5240



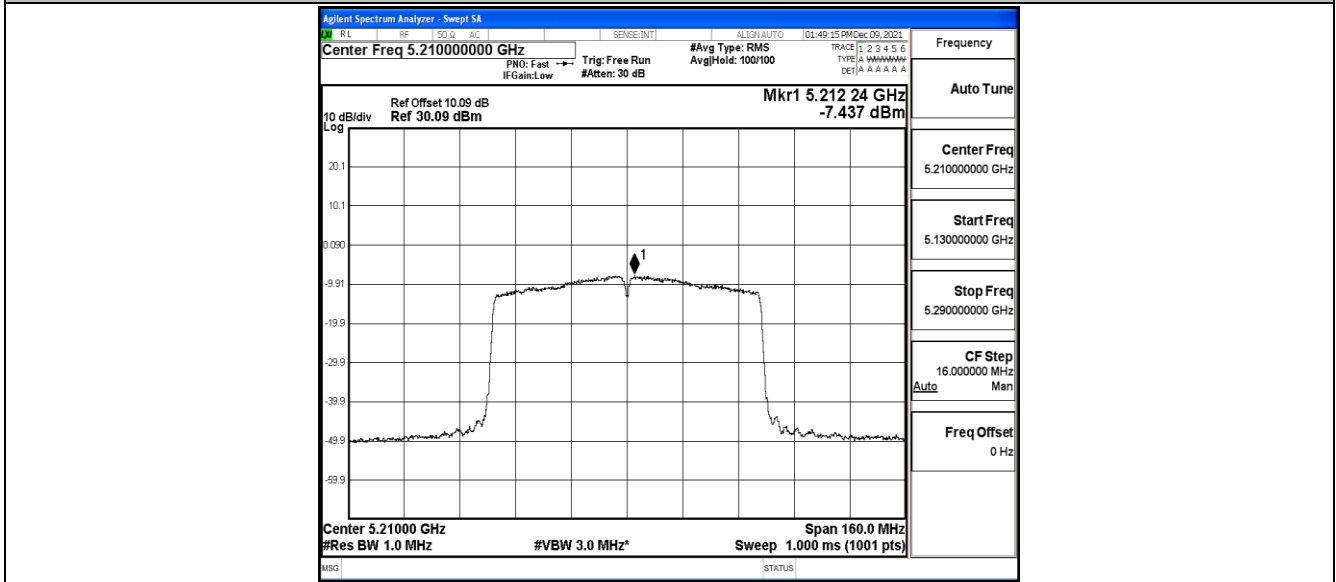
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





D.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-48.88	≤-41.20	46.32	≤54	PASS
				AV	4864.700	-46.68	≤-41.20	48.52	≤54	PASS
				AV	5150.000	-46.74	≤-41.20	48.46	≤54	PASS
				Peak	4500.000	-40.9	≤-21.20	54.30	≤68.2	PASS
				Peak	4878.700	-36.9	≤-21.20	58.30	≤68.2	PASS
				Peak	5150.000	-38.72	≤-21.20	56.48	≤68.2	PASS
		High	5240	AV	5350.000	-47.17	≤-41.20	48.03	≤54	PASS
				AV	5400.720	-46.95	≤-41.20	48.25	≤54	PASS
				AV	5460.000	-47.27	≤-41.20	47.93	≤54	PASS
				Peak	5350.000	-39.96	≤-21.20	55.24	≤68.2	PASS
				Peak	5364.720	-37.42	≤-21.20	57.78	≤68.2	PASS
				Peak	5460.000	-40.8	≤-21.20	54.40	≤68.2	PASS
11N20SI SO	Ant1	Low	5180	AV	4500.000	-48.84	≤-41.20	46.36	≤54	PASS
				AV	5143.300	-46.56	≤-41.20	48.64	≤54	PASS
				AV	5150.000	-46.62	≤-41.20	48.58	≤54	PASS
				Peak	4500.000	-41.82	≤-21.20	53.38	≤68.2	PASS
				Peak	5139.800	-37.3	≤-21.20	57.90	≤68.2	PASS
				Peak	5150.000	-40.33	≤-21.20	54.87	≤68.2	PASS
		High	5240	AV	5350.000	-47.24	≤-41.20	47.96	≤54	PASS
				AV	5404.320	-46.98	≤-41.20	48.22	≤54	PASS
				AV	5460.000	-47.38	≤-41.20	47.82	≤54	PASS
				Peak	5350.000	-40.86	≤-21.20	54.34	≤68.2	PASS
				Peak	5455.680	-37.75	≤-21.20	57.45	≤68.2	PASS
				Peak	5460.000	-40.95	≤-21.20	54.25	≤68.2	PASS
11N40SI SO	Ant1	Low	5190	AV	4500.000	-48.38	≤-41.20	46.82	≤54	PASS
				AV	5149.600	-45.97	≤-41.20	49.23	≤54	PASS
				AV	5150.000	-45.71	≤-41.20	49.49	≤54	PASS
				Peak	4500.000	-39.99	≤-21.20	55.21	≤68.2	PASS
				Peak	4809.400	-36.9	≤-21.20	58.30	≤68.2	PASS
				Peak	5150.000	-39.93	≤-21.20	55.27	≤68.2	PASS
		High	5230	AV	5350.000	-47.02	≤-41.20	48.18	≤54	PASS
				AV	5358.340	-46.62	≤-41.20	48.58	≤54	PASS
				AV	5460.000	-47.01	≤-41.20	48.19	≤54	PASS
				Peak	5350.000	-40.47	≤-21.20	54.73	≤68.2	PASS
				Peak	5373.420	-36.53	≤-21.20	58.67	≤68.2	PASS
				Peak	5460.000	-40.49	≤-21.20	54.71	≤68.2	PASS
11AC20S	Ant1	Low	5180	AV	4500.000	-48.9	≤-41.20	46.30	≤54	PASS



ISO				AV	5148.900	-46.59	≤ -41.20	48.61	≤ 54	PASS
				AV	5150.000	-46.8	≤ -41.20	48.40	≤ 54	PASS
				Peak	4500.000	-40.78	≤ -21.20	54.42	≤ 68.2	PASS
				Peak	4957.100	-37.12	≤ -21.20	58.08	≤ 68.2	PASS
				Peak	5150.000	-38.85	≤ -21.20	56.35	≤ 68.2	PASS
				Peak	5150.000	-38.85	≤ -21.20	56.35	≤ 68.2	PASS
		High	5240	AV	5350.000	-47.22	≤ -41.20	47.98	≤ 54	PASS
				AV	5356.560	-47	≤ -41.20	48.20	≤ 54	PASS
				AV	5460.000	-47.37	≤ -41.20	47.83	≤ 54	PASS
				Peak	5350.000	-40.84	≤ -21.20	54.36	≤ 68.2	PASS
				Peak	5381.040	-36.94	≤ -21.20	58.26	≤ 68.2	PASS
				Peak	5460.000	-41.49	≤ -21.20	53.71	≤ 68.2	PASS
11AC40S ISO	Ant1	Low	5190	AV	4500.000	-48.49	≤ -41.20	46.71	≤ 54	PASS
				AV	5149.600	-46.17	≤ -41.20	49.03	≤ 54	PASS
				AV	5150.000	-46.2	≤ -41.20	49.00	≤ 54	PASS
				Peak	4500.000	-40.82	≤ -21.20	54.38	≤ 68.2	PASS
				Peak	4958.500	-35.71	≤ -21.20	59.49	≤ 68.2	PASS
				Peak	5150.000	-39.49	≤ -21.20	55.71	≤ 68.2	PASS
		High	5230	AV	5350.000	-47.11	≤ -41.20	48.09	≤ 54	PASS
				AV	5369.520	-46.76	≤ -41.20	48.44	≤ 54	PASS
				AV	5460.000	-47.26	≤ -41.20	47.94	≤ 54	PASS
				Peak	5350.000	-40.5	≤ -21.20	54.70	≤ 68.2	PASS
				Peak	5407.220	-37.79	≤ -21.20	57.41	≤ 68.2	PASS
				Peak	5460.000	-40.54	≤ -21.20	54.66	≤ 68.2	PASS
11AC80S ISO	Ant1	Low	5210	AV	4500.000	-48.23	≤ -41.20	46.97	≤ 54	PASS
				AV	5149.500	-44.68	≤ -41.20	50.52	≤ 54	PASS
				AV	5150.000	-44.92	≤ -41.20	50.28	≤ 54	PASS
				Peak	4500.000	-42.12	≤ -21.20	53.08	≤ 68.2	PASS
				Peak	5055.750	-37.44	≤ -21.20	57.76	≤ 68.2	PASS
				Peak	5150.000	-38.27	≤ -21.20	56.93	≤ 68.2	PASS
		High	5210	AV	5350.000	-46.84	≤ -41.20	48.36	≤ 54	PASS
				AV	5369.840	-46.06	≤ -41.20	49.14	≤ 54	PASS
				AV	5460.000	-47.13	≤ -41.20	48.07	≤ 54	PASS
				Peak	5350.000	-39.12	≤ -21.20	56.08	≤ 68.2	PASS
				Peak	5363.680	-38.32	≤ -21.20	56.88	≤ 68.2	PASS
				Peak	5460.000	-40.94	≤ -21.20	54.26	≤ 68.2	PASS

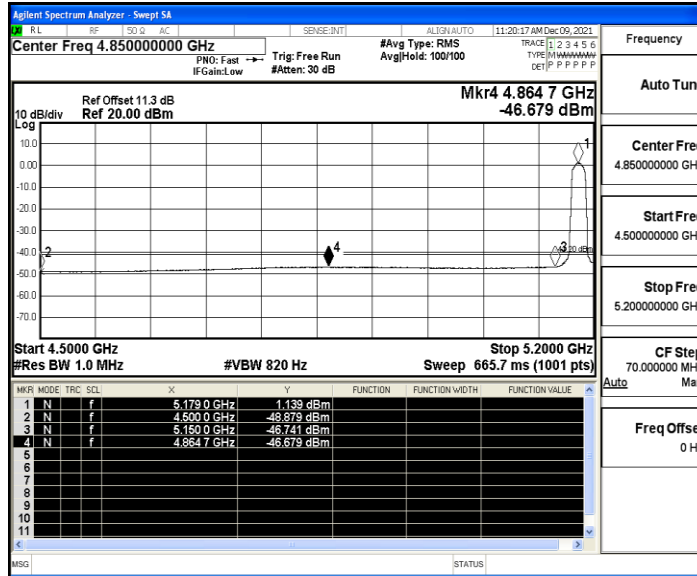
Note:

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

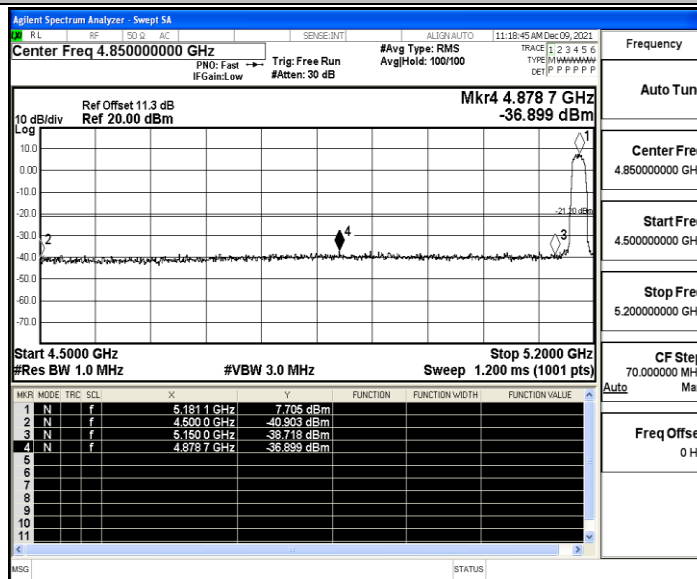


Test Graphs

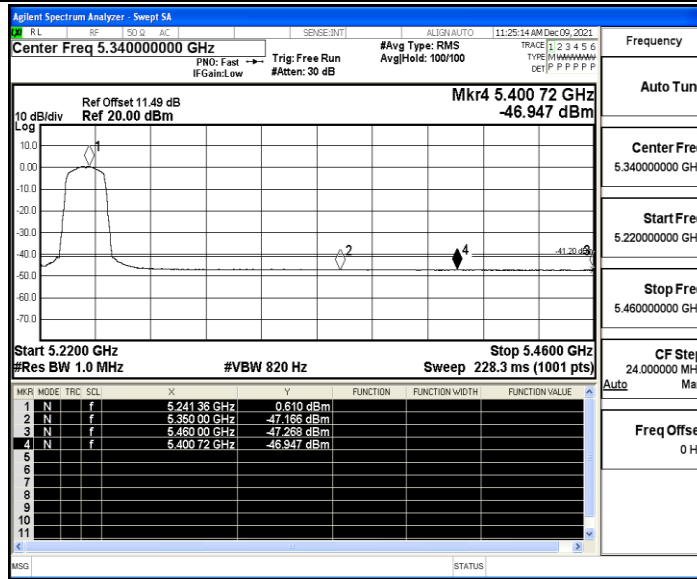
11A_Ant1_Low_5180_AV



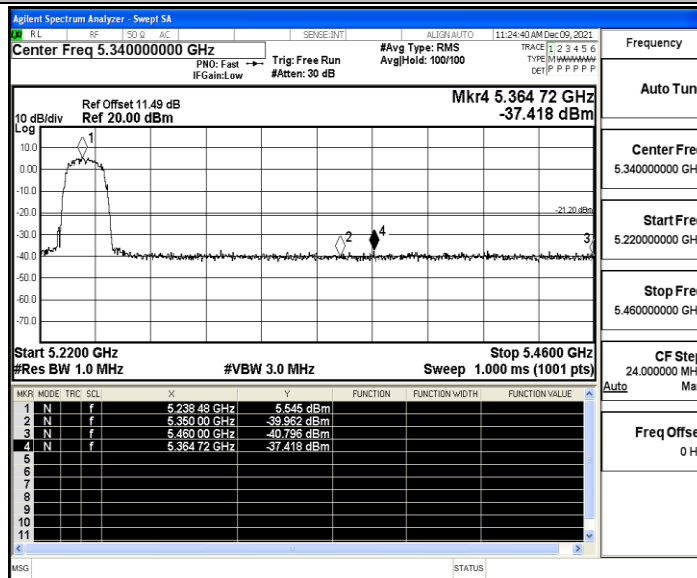
11A_Ant1_Low_5180_Peak



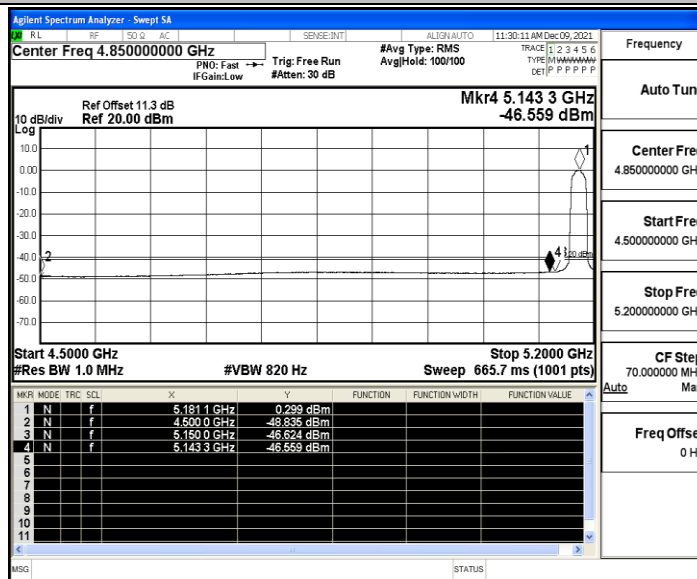
11A_Ant1_High_5240_AV



11A_Ant1_High_5240_Peak

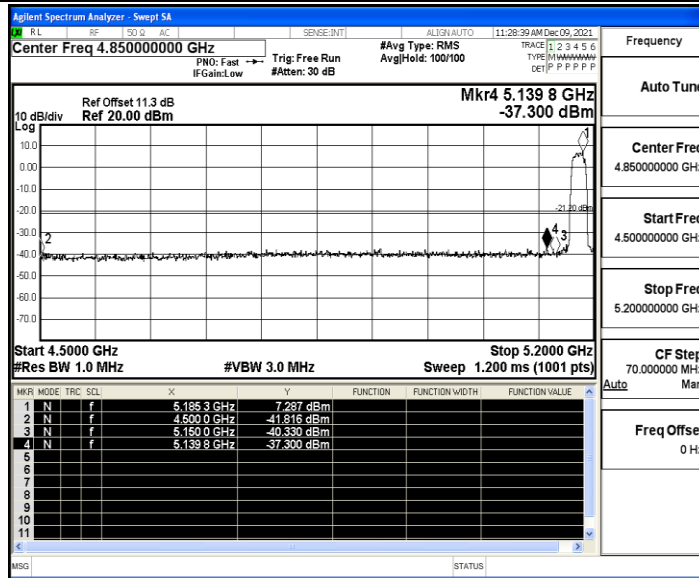


11N20SISO_Ant1_Low_5180_AV

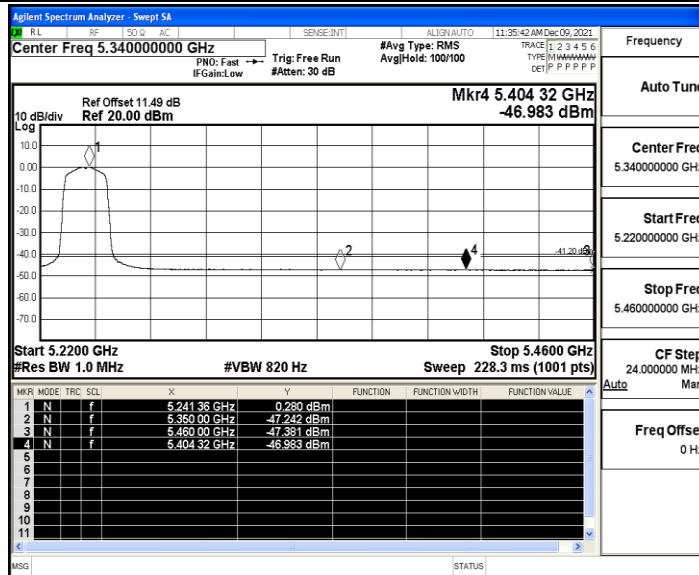




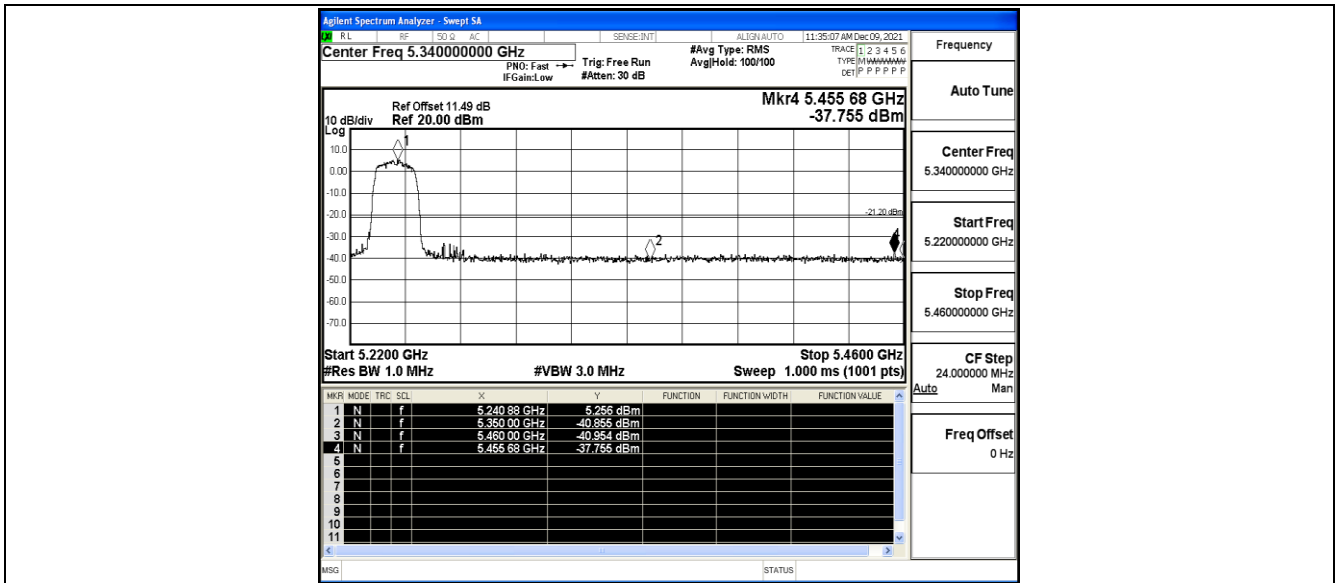
11N20SISO_Ant1_Low_5180_Peak



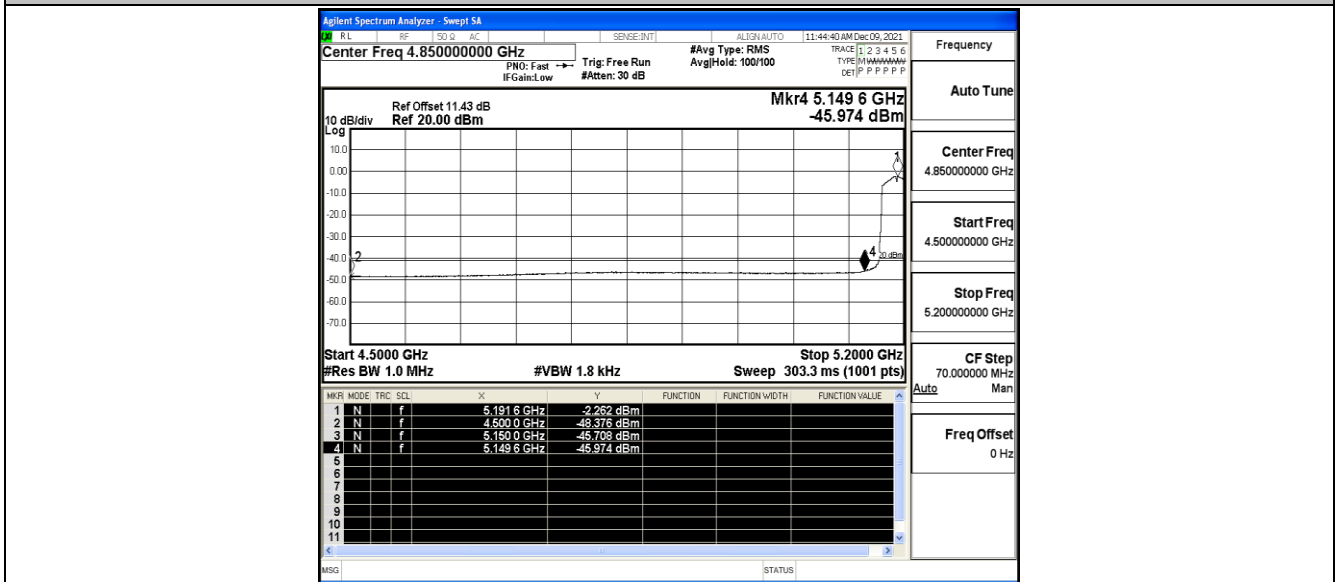
11N20SISO_Ant1_High_5240_AV



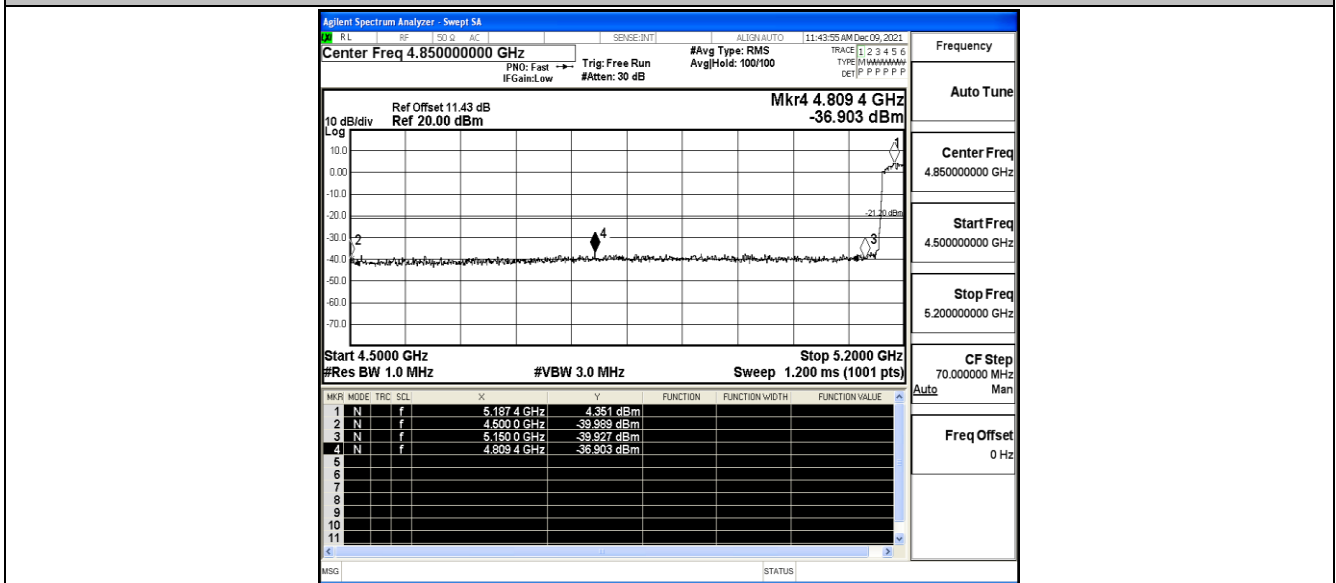
11N20SISO_Ant1_High_5240_Peak



11N40SISO_Ant1_Low_5190_AV

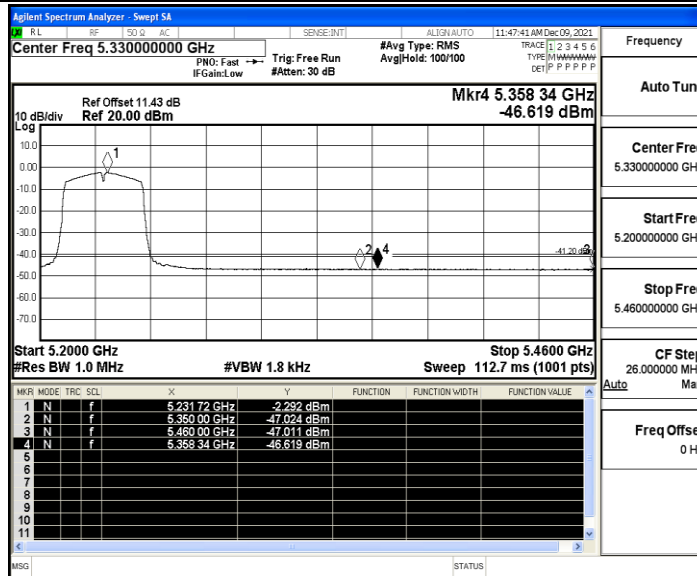


11N40SISO_Ant1_Low_5190_Peak

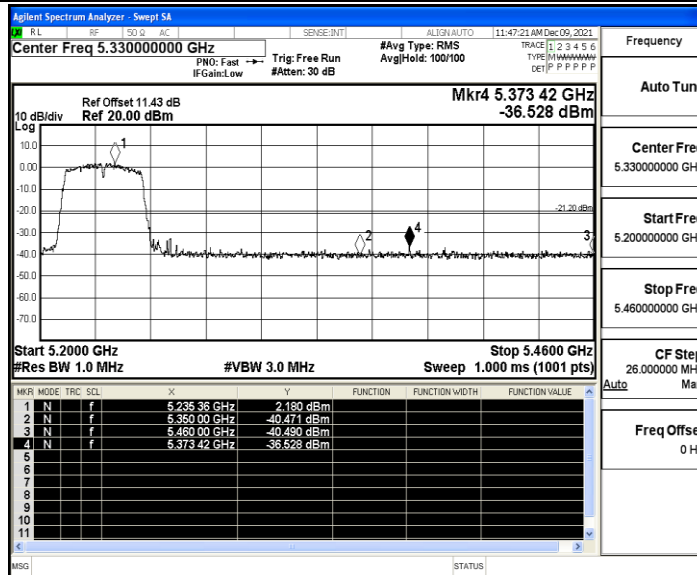




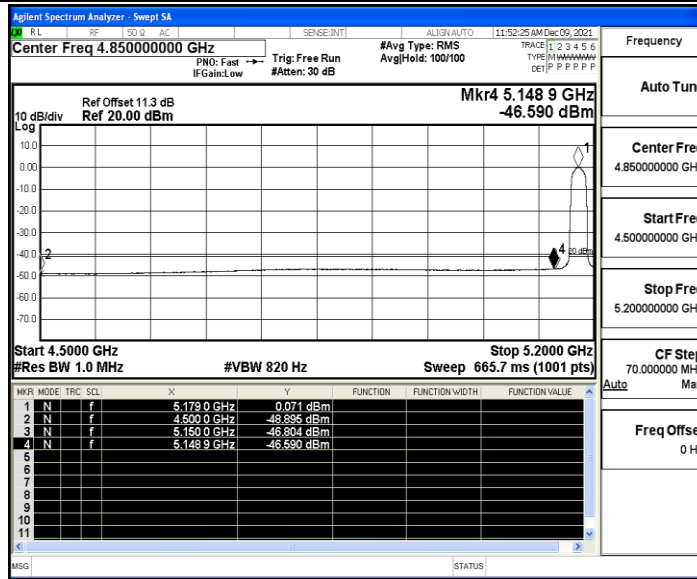
11N40SISO_Ant1_High_5230_AV



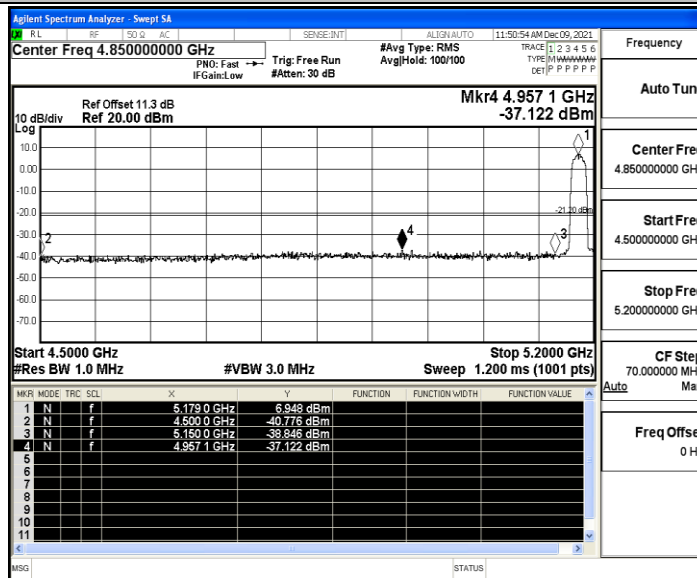
11N40SISO_Ant1_High_5230_Peak



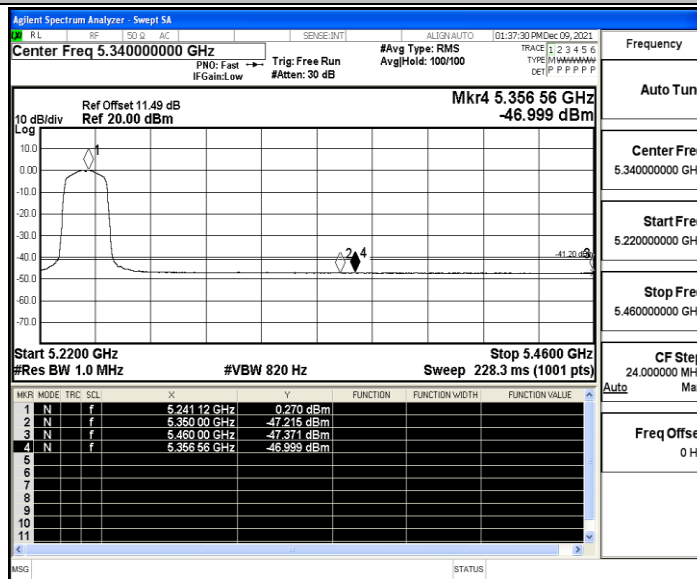
11AC20SISO_Ant1_Low_5180_AV



11AC20SISO_Ant1_Low_5180_Peak

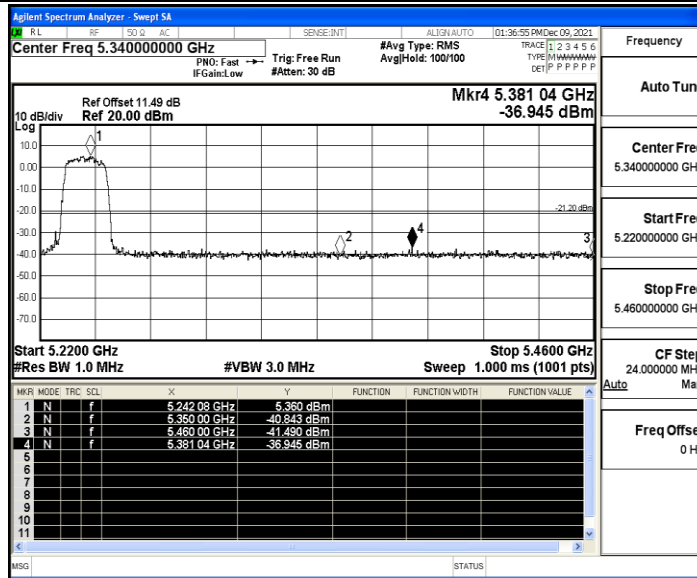


11AC20SISO_Ant1_High_5240_AV

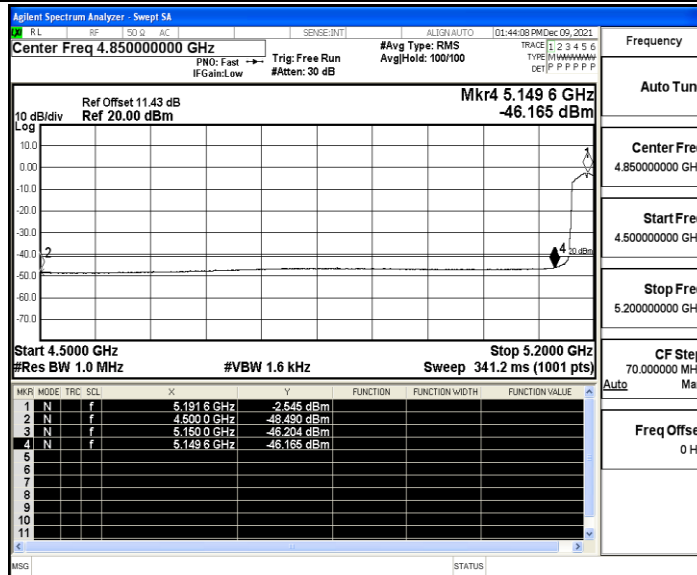




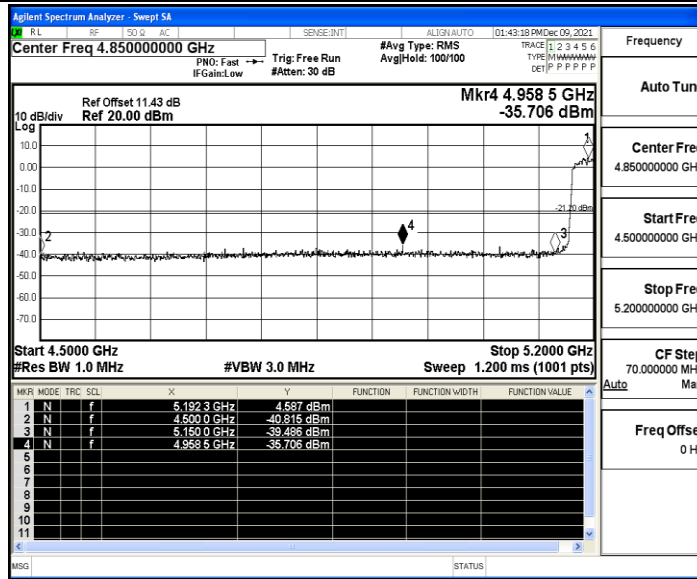
11AC20SISO_Ant1_High_5240_Peak



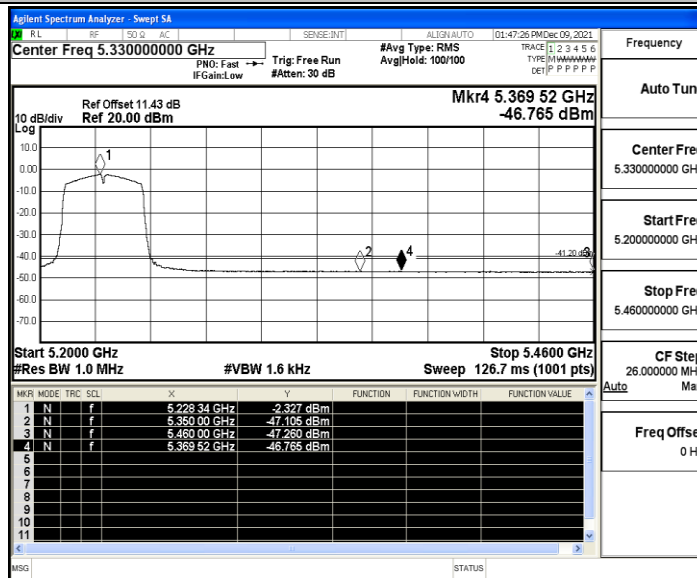
11AC40SISO_Ant1_Low_5190_AV



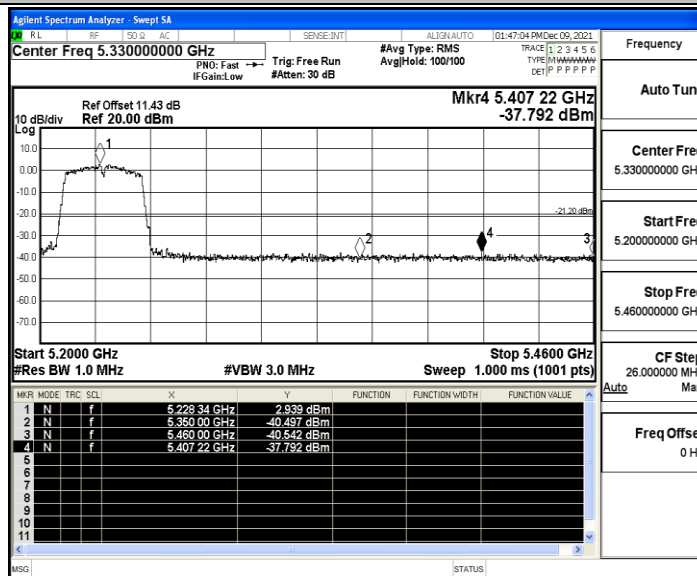
11AC40SISO_Ant1_Low_5190_Peak



11AC40ISO_Ant1_High_5230_AV

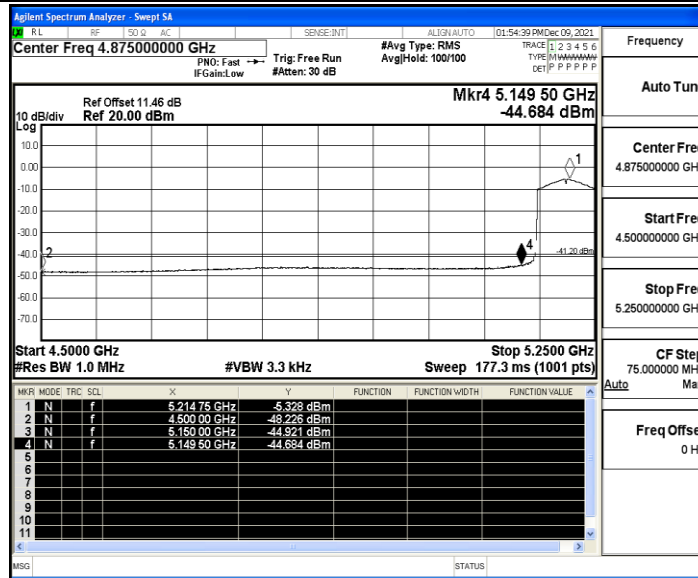


11AC40ISO_Ant1_High_5230_Peak

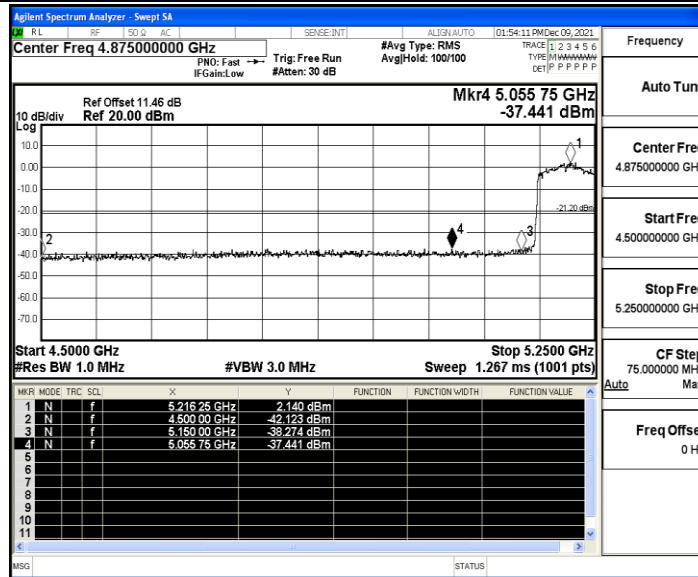




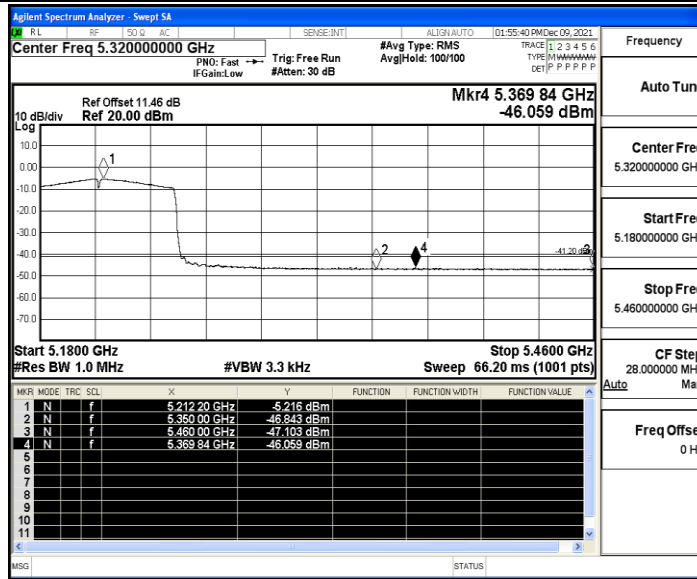
11AC80SISO_Ant1_Low_5210_AV



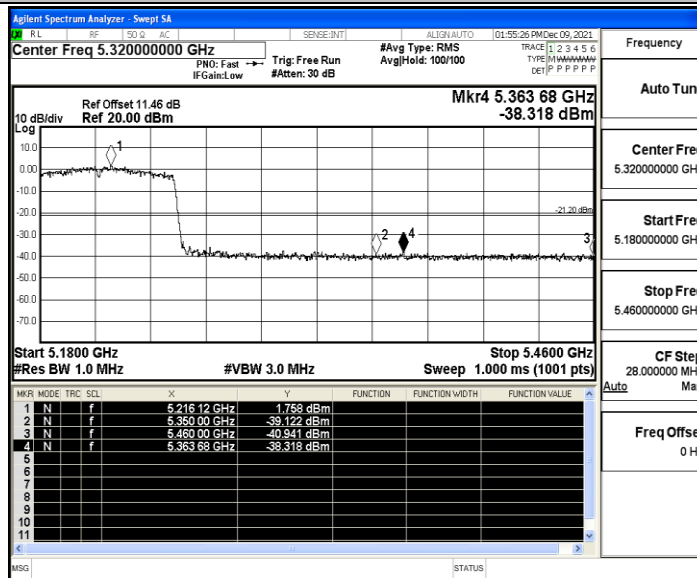
11AC80SISO_Ant1_Low_5210_Peak



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
11AC20SIS O	Ant1	5180	NV	NT	-10000	-1.930502	20	PASS
			LV	NT	-11000	-2.123552	20	PASS
			HV	NT	-12000	-2.316602	20	PASS
		5200	NV	NT	-12000	-2.307692	20	PASS
			LV	NT	-12000	-2.307692	20	PASS
			HV	NT	-12000	-2.307692	20	PASS
		5240	NV	NT	-12000	-2.290076	20	PASS
			LV	NT	-12000	-2.290076	20	PASS
			HV	NT	-12000	-2.290076	20	PASS
11AC40SIS O	Ant1	5190	NV	NT	-11000	-2.119461	20	PASS
			LV	NT	-12000	-2.312139	20	PASS
			HV	NT	-12000	-2.312139	20	PASS
		5230	NV	NT	-12000	-2.294455	20	PASS
			LV	NT	-12000	-2.294455	20	PASS
			HV	NT	-12000	-2.294455	20	PASS
11AC80SIS O	Ant1	5210	NV	NT	-12000	-2.303263	20	PASS
			LV	NT	-12000	-2.303263	20	PASS
			HV	NT	-12000	-2.303263	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant1	5180	NV	-30	-12000	-2.316602	20	PASS
			NV	-20	-12000	-2.316602	20	PASS
			NV	-10	-12000	-2.316602	20	PASS
			NV	0	-12000	-2.316602	20	PASS
			NV	10	-12000	-2.316602	20	PASS
			NV	20	-12000	-2.316602	20	PASS
			NV	30	-12000	-2.316602	20	PASS
			NV	40	-12000	-2.316602	20	PASS
			NV	50	-12000	-2.316602	20	PASS
		5200	NV	-30	-12000	-2.307692	20	PASS
			NV	-20	-12000	-2.307692	20	PASS
			NV	-10	-12000	-2.307692	20	PASS
			NV	0	-12000	-2.307692	20	PASS
			NV	10	-12000	-2.307692	20	PASS
			NV	20	-12000	-2.307692	20	PASS



			NV	20	-12000	-2.307692	20	PASS
			NV	30	-12000	-2.307692	20	PASS
			NV	40	-12000	-2.307692	20	PASS
			NV	50	-12000	-2.307692	20	PASS
		5240	NV	-30	-12000	-2.290076	20	PASS
			NV	-20	-12000	-2.290076	20	PASS
			NV	-10	-12000	-2.290076	20	PASS
			NV	0	-12000	-2.290076	20	PASS
			NV	10	-12000	-2.290076	20	PASS
			NV	20	-12000	-2.290076	20	PASS
			NV	30	-12000	-2.290076	20	PASS
			NV	40	-12000	-2.290076	20	PASS
			NV	50	-12000	-2.290076	20	PASS
			11AC40SIS O	Ant1	5190	NV	-30	-12000
NV	-20	-12000				-2.312139	20	PASS
NV	-10	-12000				-2.312139	20	PASS
NV	0	-12000				-2.312139	20	PASS
NV	10	-12000				-2.312139	20	PASS
NV	20	-12000				-2.312139	20	PASS
NV	30	-12000				-2.312139	20	PASS
NV	40	-12000				-2.312139	20	PASS
5230	NV	50			-12000	-2.312139	20	PASS
	NV	-30			-12000	-2.294455	20	PASS
	NV	-20			-12000	-2.294455	20	PASS
	NV	-10			-12000	-2.294455	20	PASS
	NV	0			-12000	-2.294455	20	PASS
	NV	10			-12000	-2.294455	20	PASS
11AC80SIS O	Ant1	5210	NV	20	-12000	-2.294455	20	PASS
			NV	30	-12000	-2.294455	20	PASS
			NV	40	-12000	-2.294455	20	PASS
			NV	50	-12000	-2.294455	20	PASS
			NV	-30	-12000	-2.303263	20	PASS
			NV	-20	-12000	-2.303263	20	PASS
			NV	-10	-12000	-2.303263	20	PASS
			NV	0	-12000	-2.303263	20	PASS
NV	10	-12000	-2.303263	20	PASS			
NV	20	-13000	-2.495202	20	PASS			
NV	30	-12000	-2.303263	20	PASS			
NV	40	-12000	-2.303263	20	PASS			
NV	50	-12000	-2.303263	20	PASS			



D.6 Duty Cycle

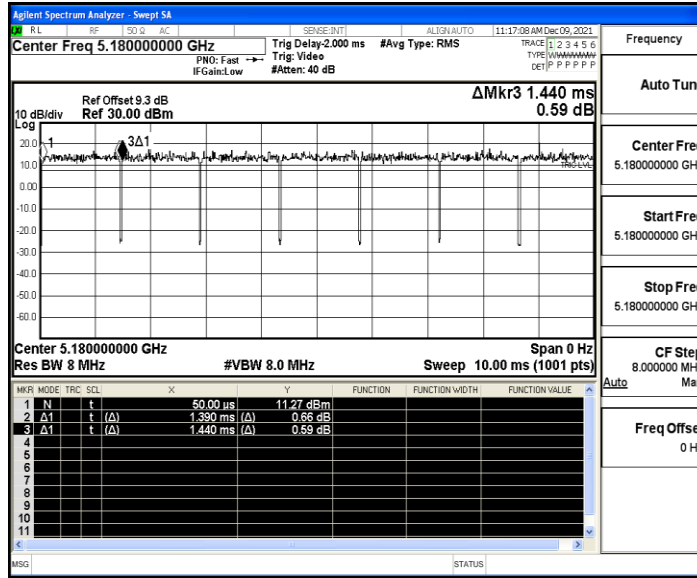
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T (Hz)	Limit	Verdict
11A	Ant1	5180	1.39	1.44	96.53	719.42	---	PASS
		5200	1.39	1.44	96.53	719.42	---	PASS
		5240	1.39	1.44	96.53	719.42	---	PASS
11N20SISO	Ant1	5180	1.30	1.35	96.30	769.23	---	PASS
		5200	1.30	1.35	96.30	769.23	---	PASS
		5240	1.30	1.35	96.30	769.23	---	PASS
11N40SISO	Ant1	5190	0.64	0.69	92.75	1562.50	---	PASS
		5230	0.64	0.69	92.75	1562.50	---	PASS
11AC20SISO	Ant1	5180	1.31	1.36	96.32	763.36	---	PASS
		5200	1.31	1.36	96.32	763.36	---	PASS
		5240	1.31	1.36	96.32	763.36	---	PASS
11AC40SISO	Ant1	5190	0.65	0.70	92.86	1538.46	---	PASS
		5230	0.65	0.70	92.86	1538.46	---	PASS
11AC80SISO	Ant1	5210	0.32	0.37	86.49	3125.00	---	PASS

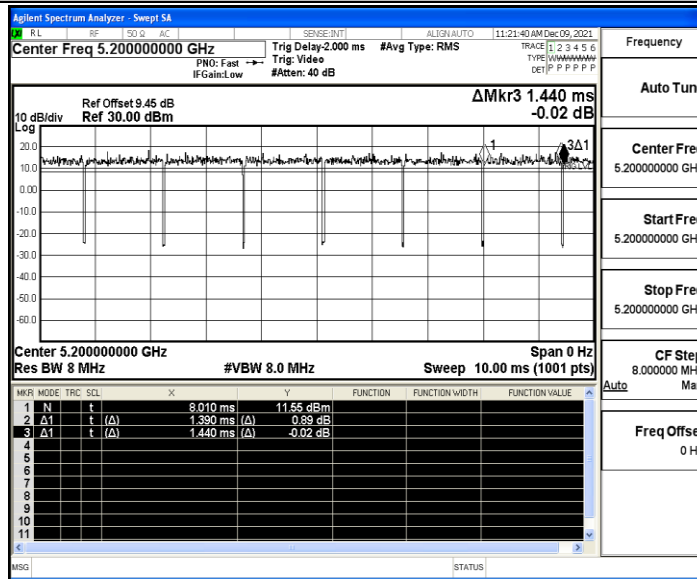


Test Graphs

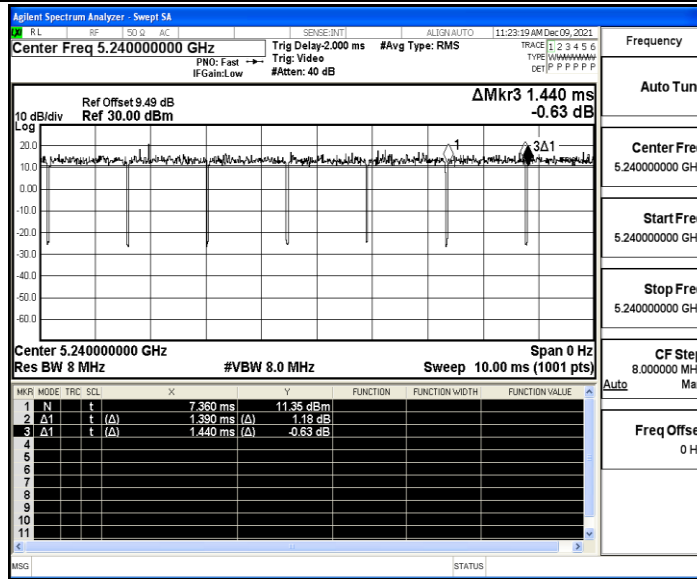
11A_Ant1_5180



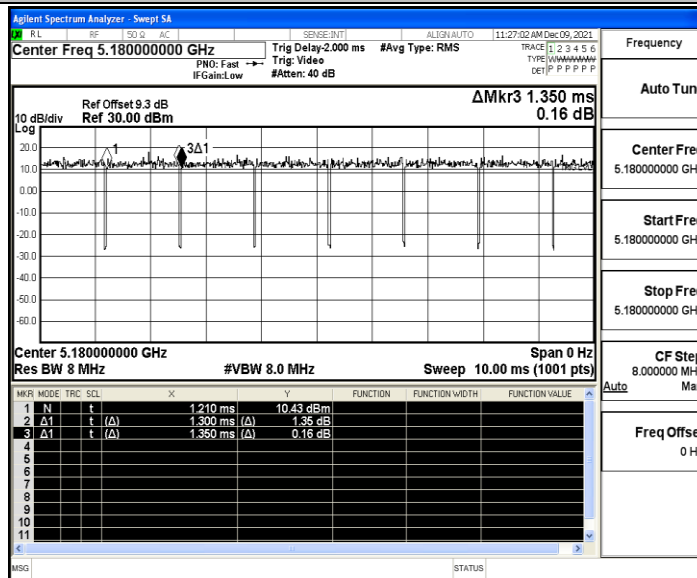
11A_Ant1_5200



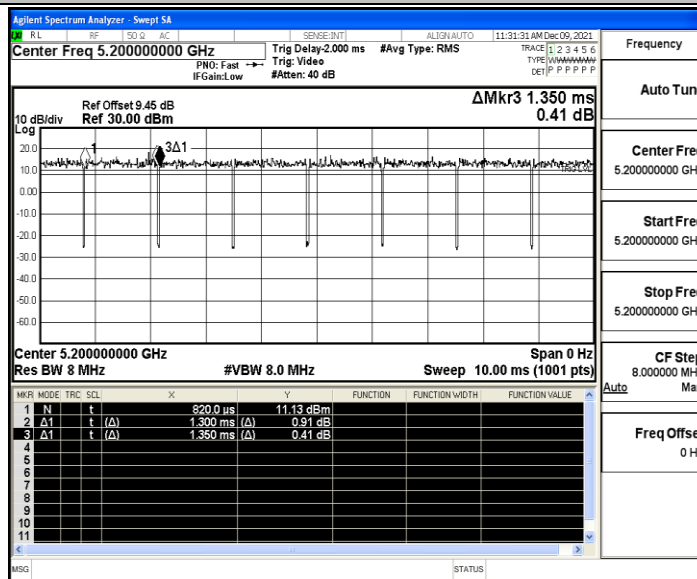
11A_Ant1_5240



11N20SISO_Ant1_5180

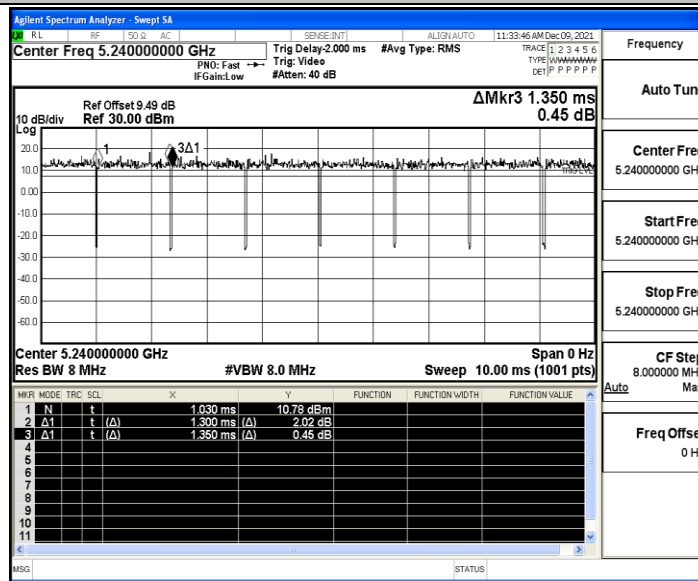


11N20SISO_Ant1_5200

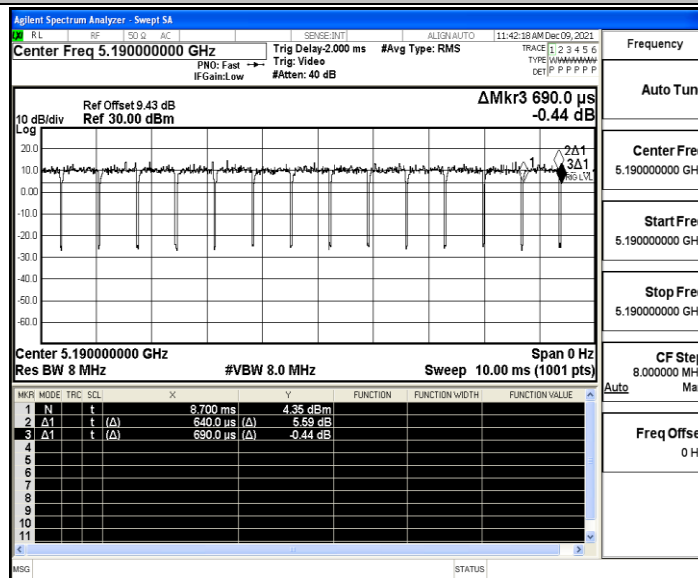




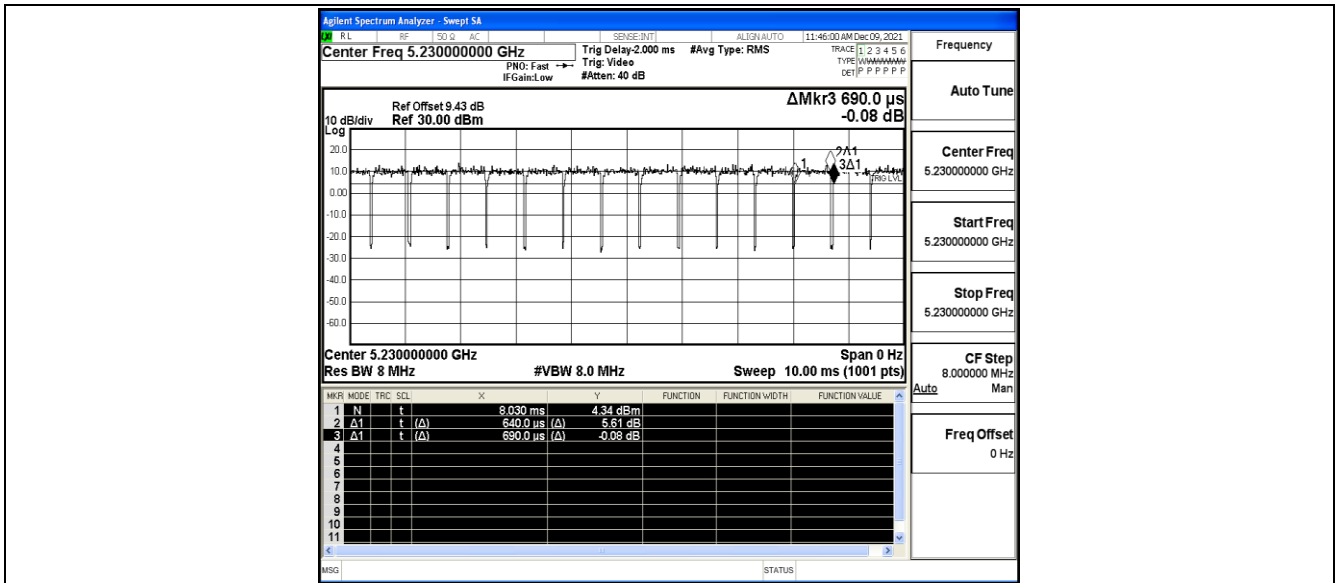
11N20SISO_Ant1_5240



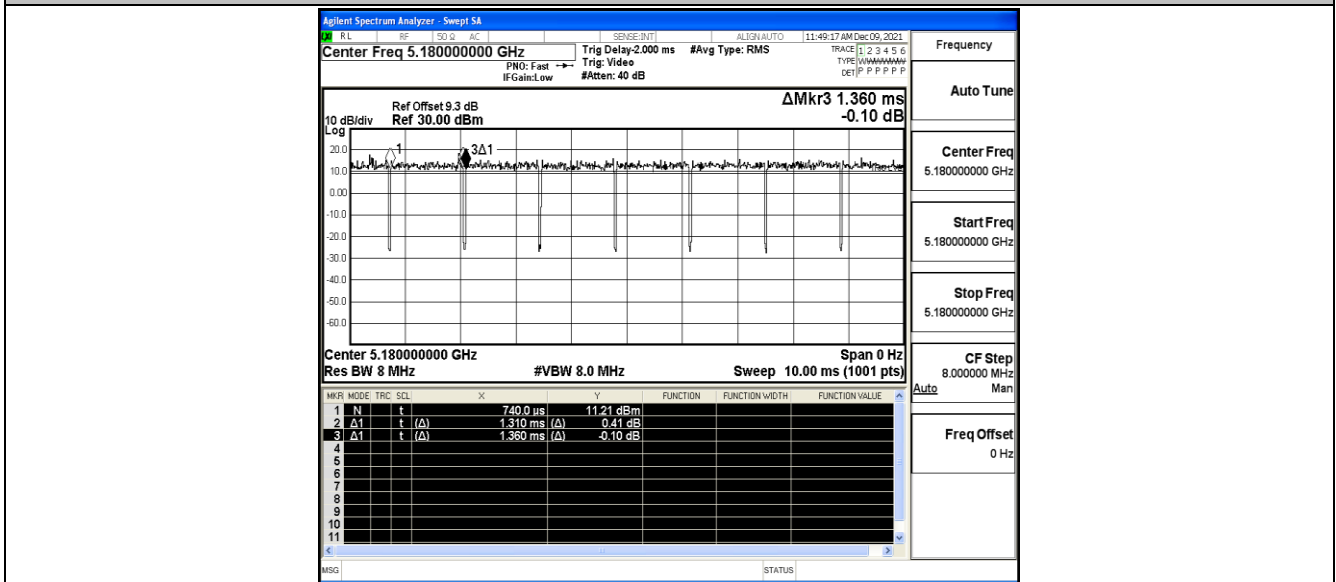
11N40SISO_Ant1_5190



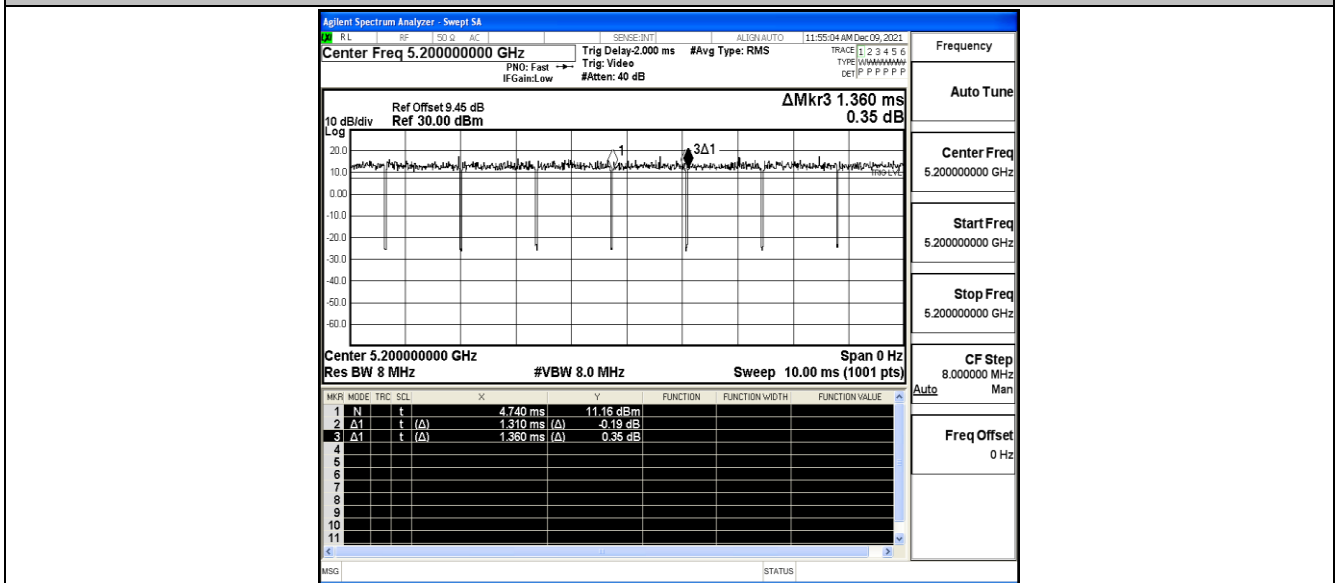
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180

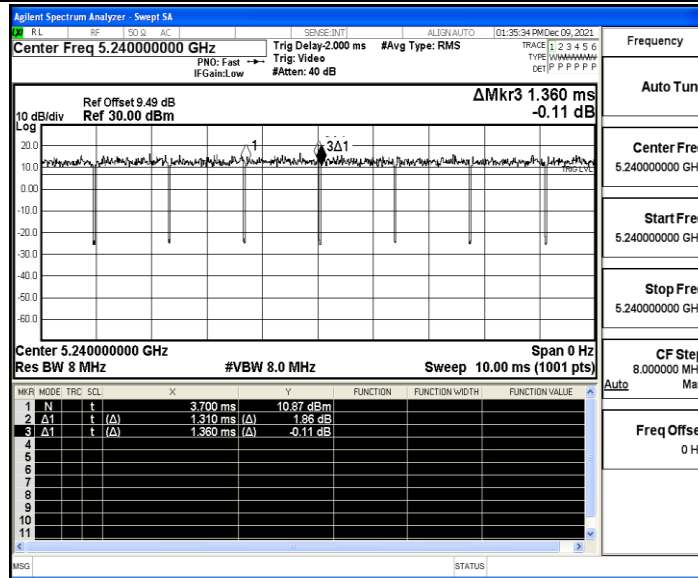


11AC20SISO_Ant1_5200

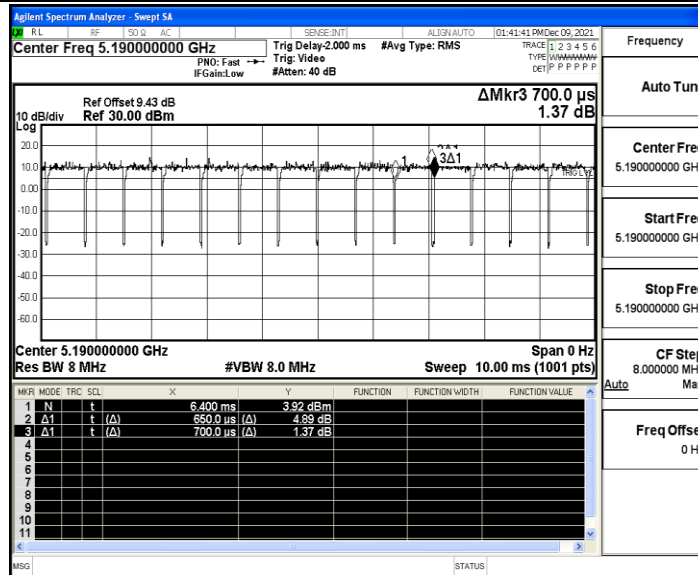




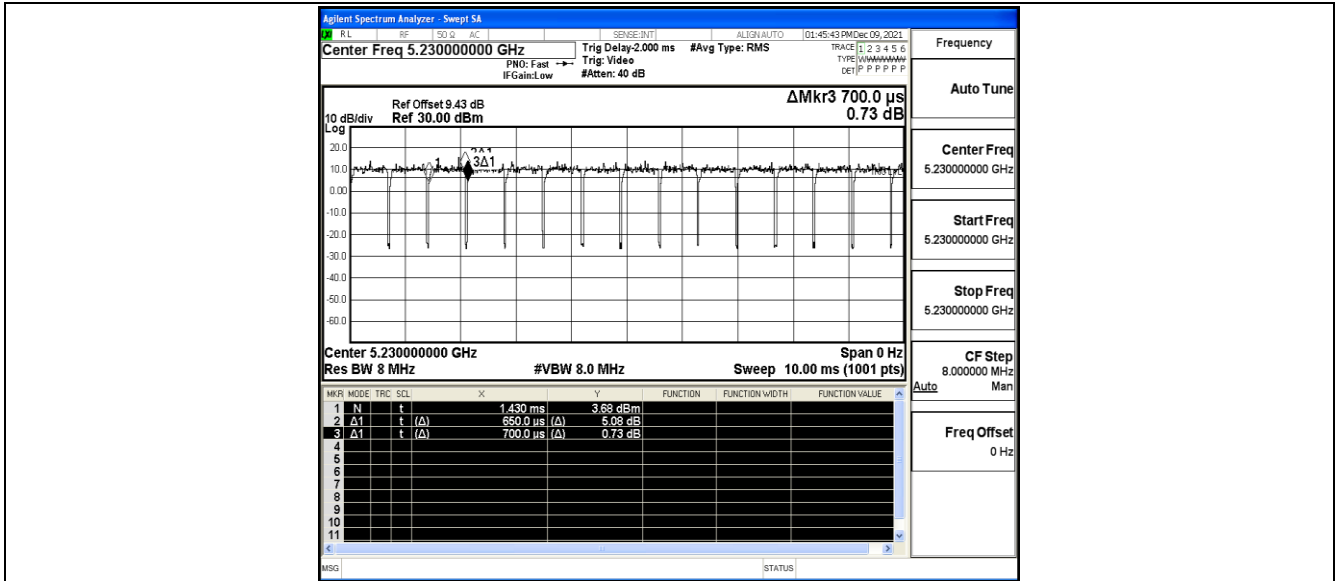
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

