



Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: HYBOOK_PLUS

Test Model: 14CB7S01

Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan



D.1 26dB Bandwidth

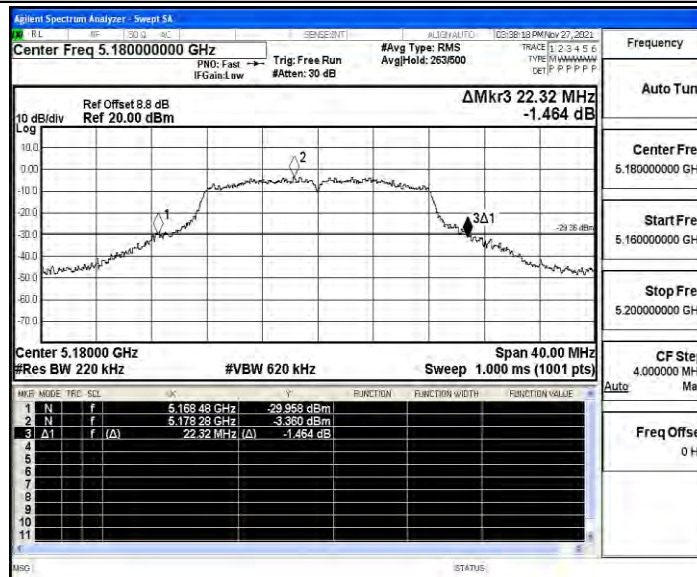
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5180	22.320	5168.480	5190.800	---	PASS
		5200	23.280	5188.320	5211.600	---	PASS
		5240	24.280	5227.400	5251.680	---	PASS
11N20SISO	Ant0	5180	22.680	5168.920	5191.600	---	PASS
		5200	22.400	5188.640	5211.040	---	PASS
		5240	23.880	5228.040	5251.920	---	PASS
11N40SISO	Ant0	5190	41.760	5169.360	5211.120	---	PASS
		5230	42.800	5208.720	5251.520	---	PASS
11AC20SISO	Ant0	5180	22.760	5168.240	5191.000	---	PASS
		5200	22.320	5189.000	5211.320	---	PASS
		5240	22.680	5228.600	5251.280	---	PASS
11AC40SISO	Ant0	5190	41.600	5169.360	5210.960	---	PASS
		5230	42.400	5208.640	5251.040	---	PASS
11AC80SISO	Ant0	5210	81.760	5168.880	5250.640	---	PASS

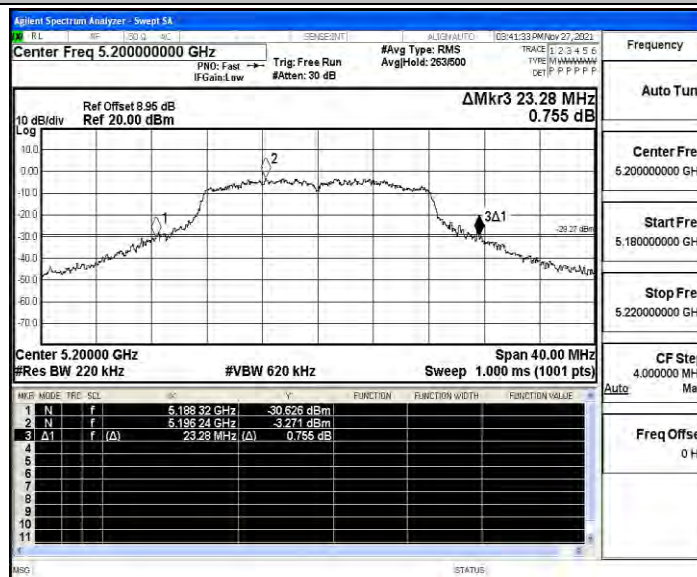


Test Graphs

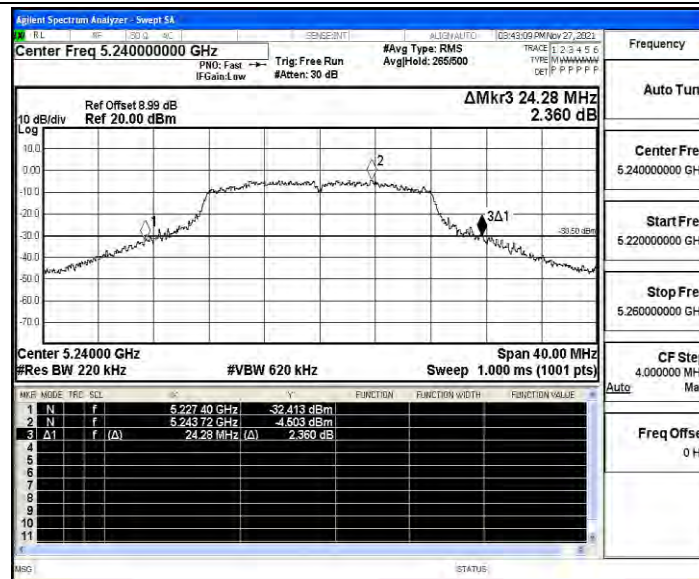
11A_Ant0_5180



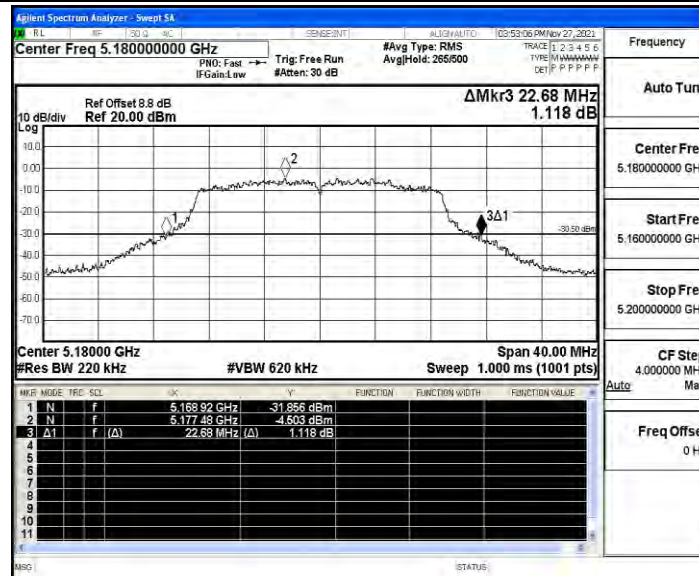
11A_Ant0_5200



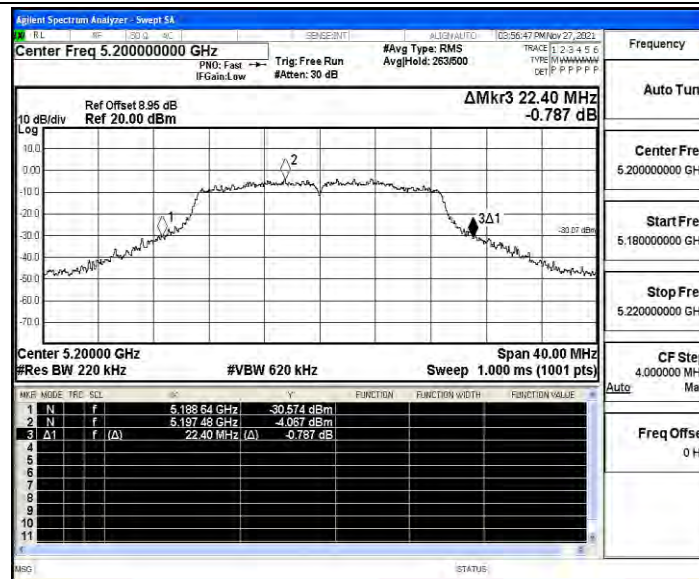
11A_Ant0_5240



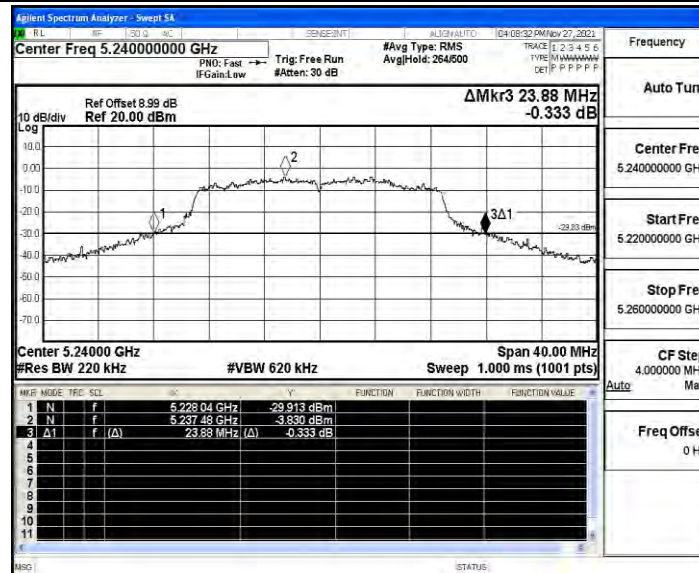
11N20SISO_Ant0_5180



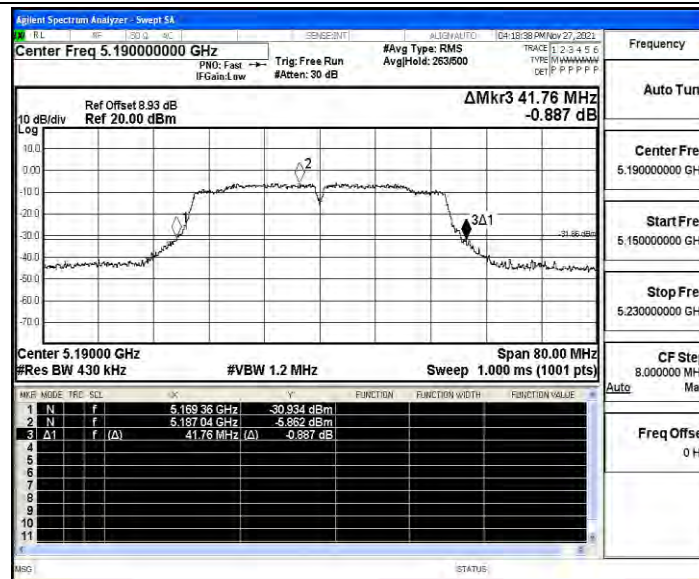
11N20SISO_Ant0_5200



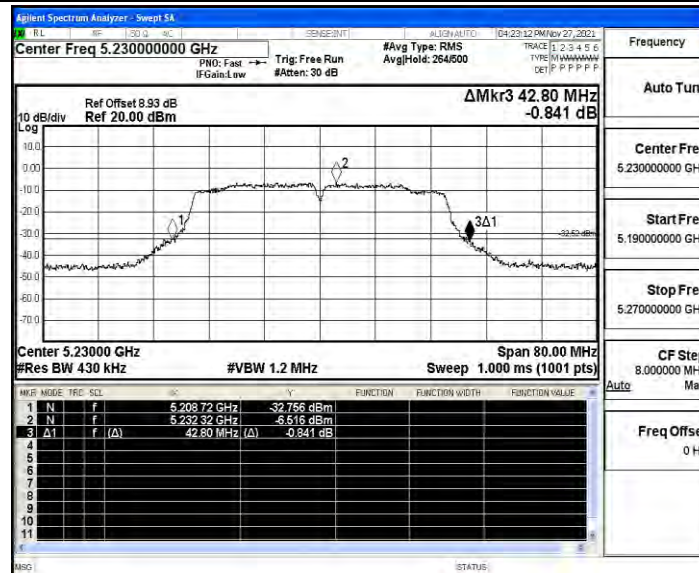
11N20SISO_Ant0_5240



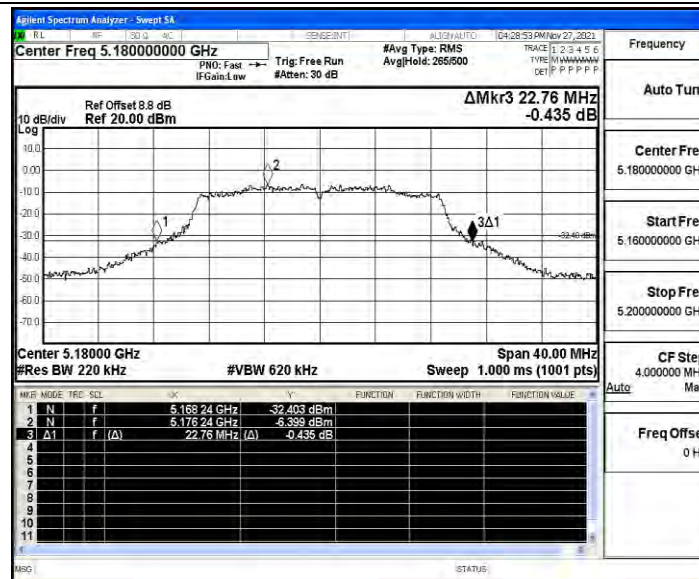
11N40SISO_Ant0_5190



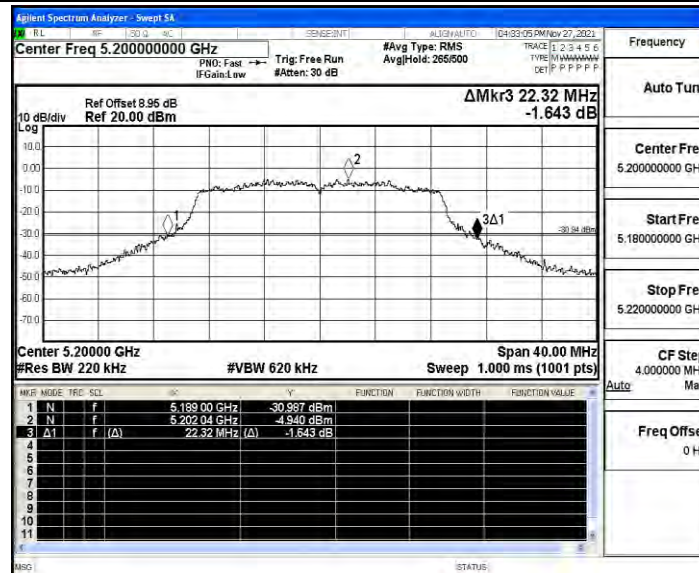
11N40SISO_Ant0_5230



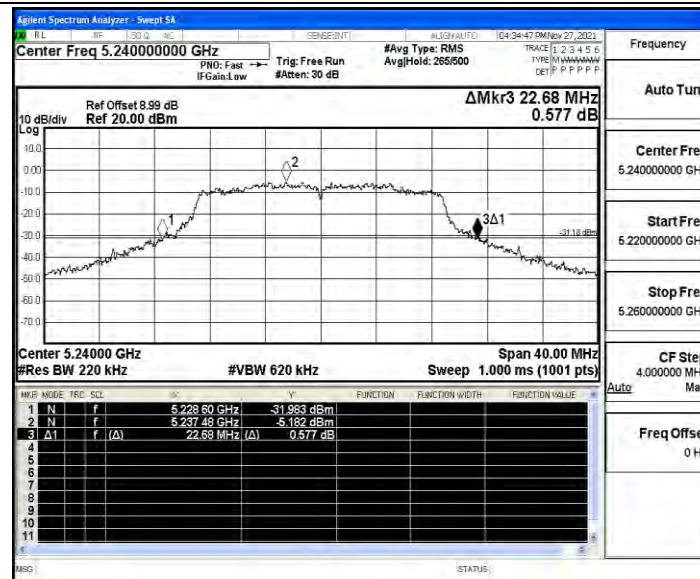
11AC20SISO_Ant0_5180



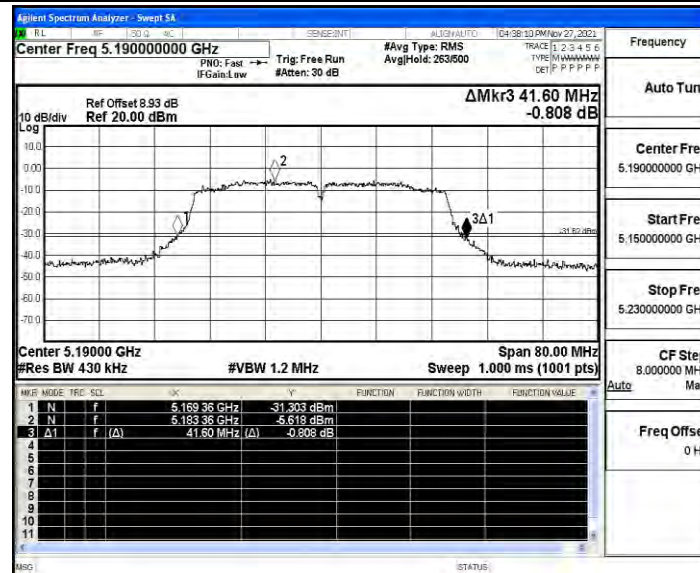
11AC20SISO_Ant0_5200



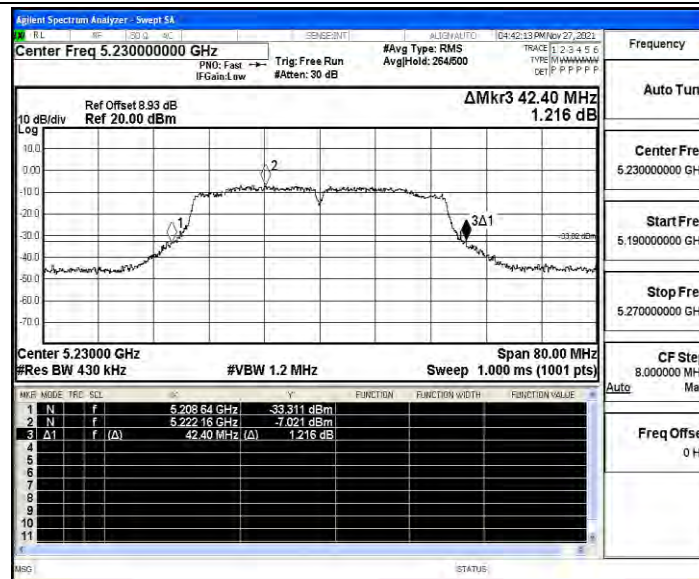
11AC20SISO_Ant0_5240



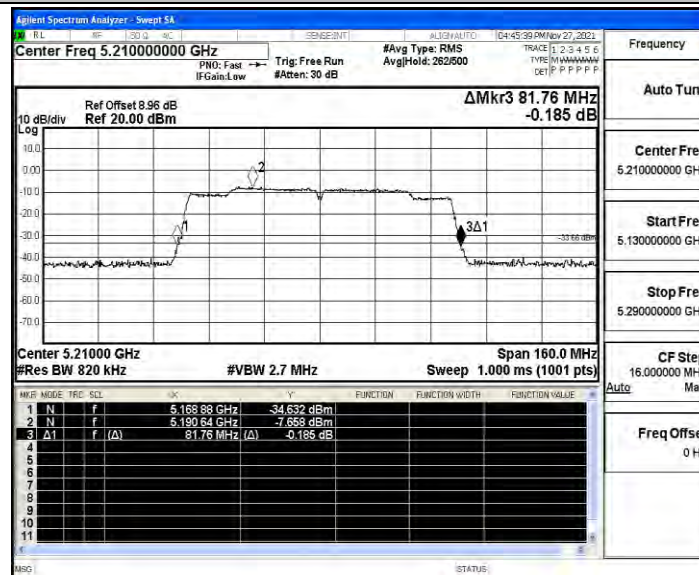
11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230



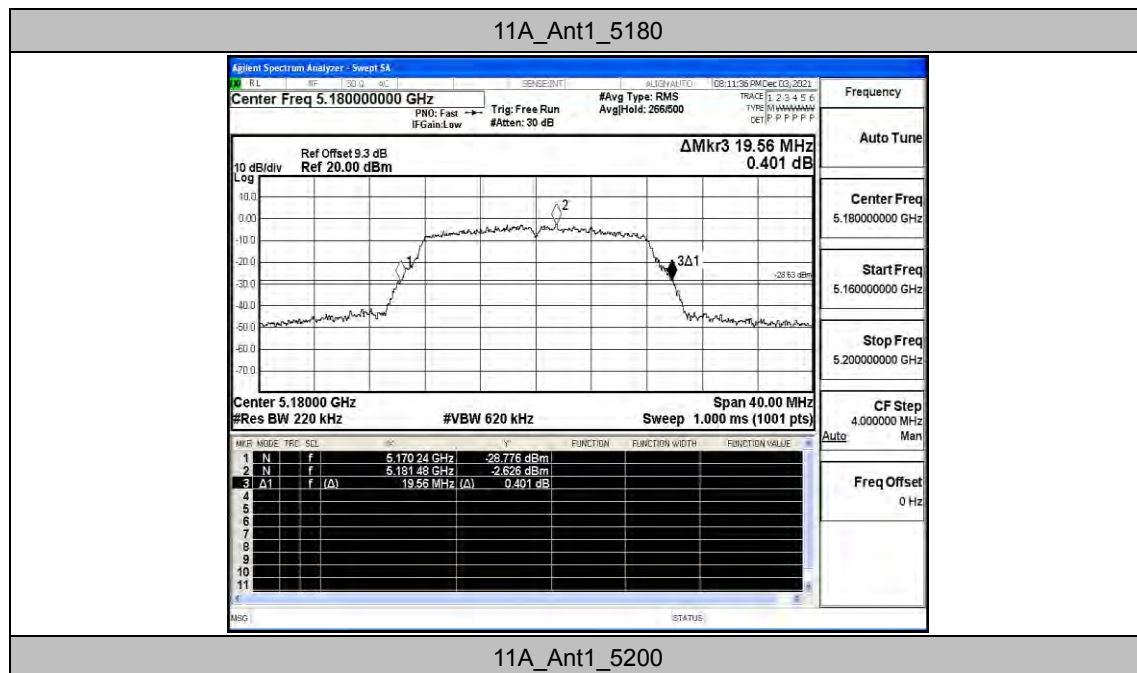
11AC80SISO_Ant0_5210

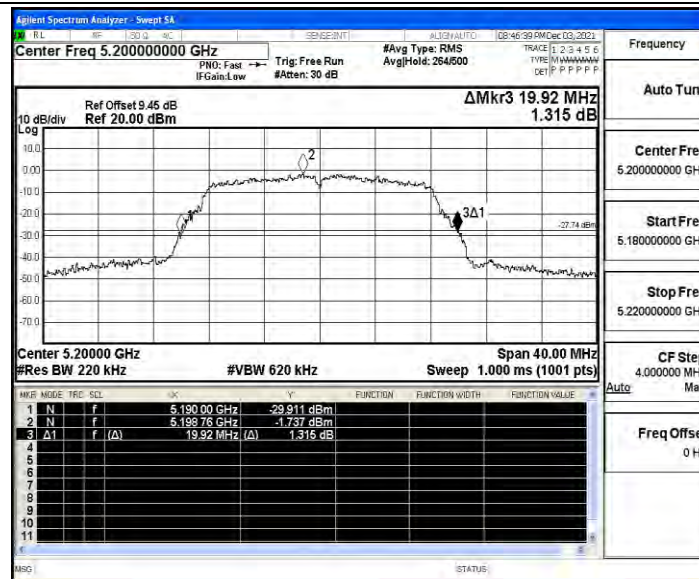




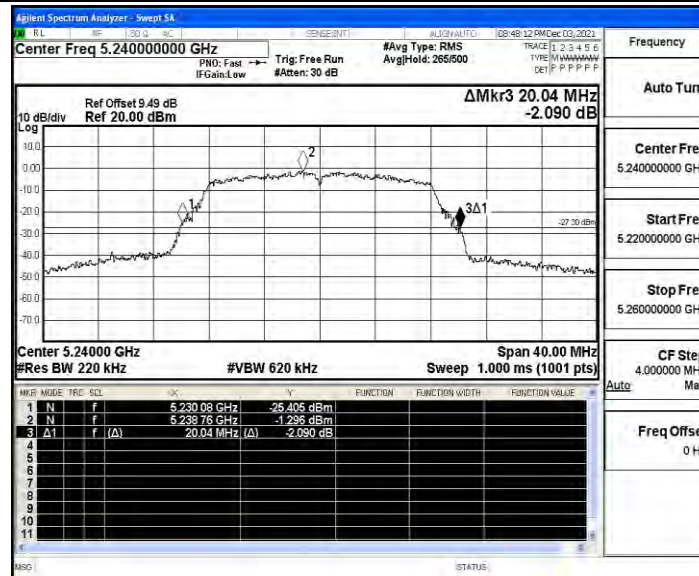
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.560	5170.240	5189.800	---	PASS
		5200	19.920	5190.000	5209.920	---	PASS
		5240	20.040	5230.080	5250.120	---	PASS
11N20SISO	Ant1	5180	19.920	5170.080	5190.000	---	PASS
		5200	20.000	5190.000	5210.000	---	PASS
		5240	20.120	5229.880	5250.000	---	PASS
11N40SISO	Ant1	5190	40.160	5169.920	5210.080	---	PASS
		5230	40.320	5209.760	5250.080	---	PASS
11AC20SISO	Ant1	5180	19.880	5170.000	5189.880	---	PASS
		5200	20.000	5189.960	5209.960	---	PASS
		5240	20.040	5229.960	5250.000	---	PASS
11AC40SISO	Ant1	5190	39.840	5170.000	5209.840	---	PASS
		5230	40.320	5209.920	5250.240	---	PASS
11AC80SISO	Ant1	5210	81.760	5169.360	5251.120	---	PASS

Test Graphs

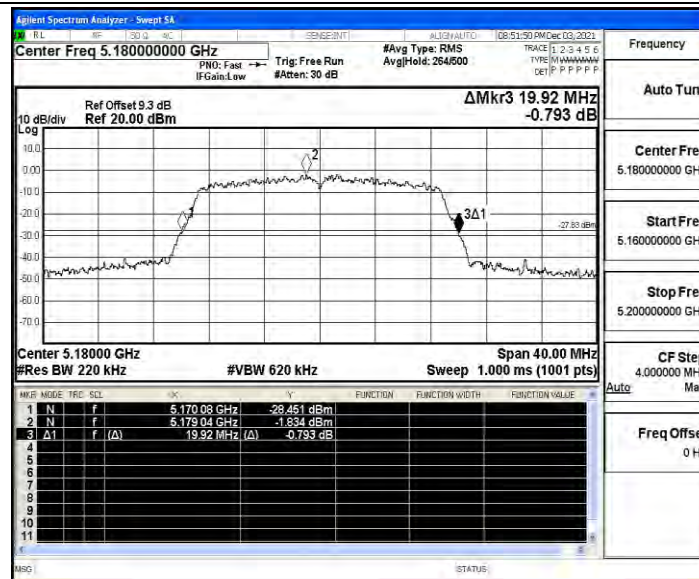




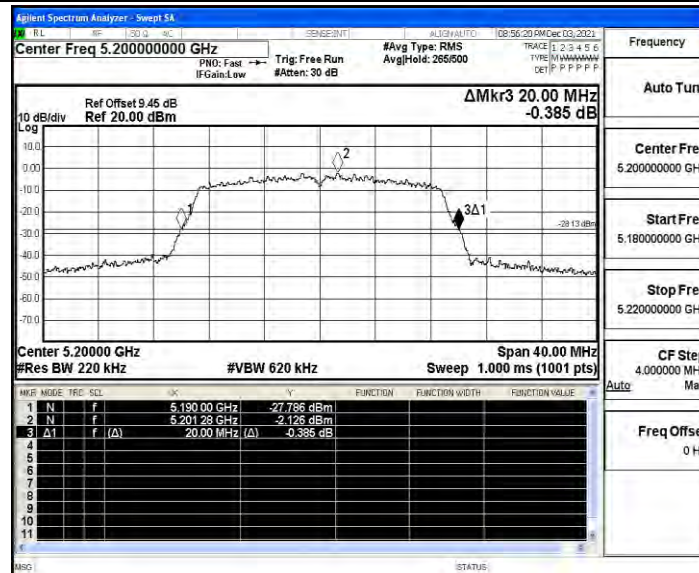
11A_Ant1_5240



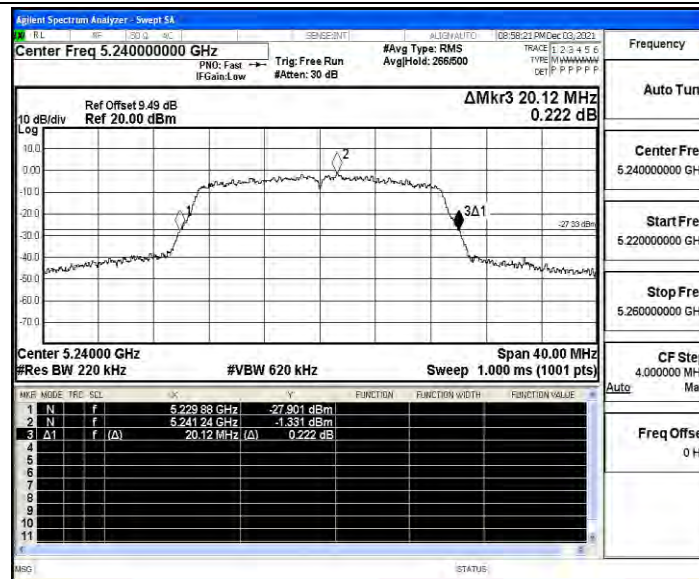
11N20SISO_Ant1_5180



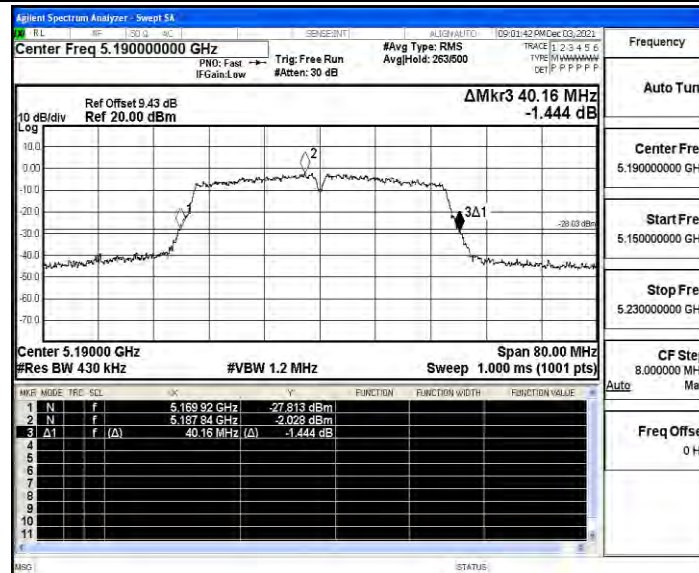
11N20SISO_Ant1_5200



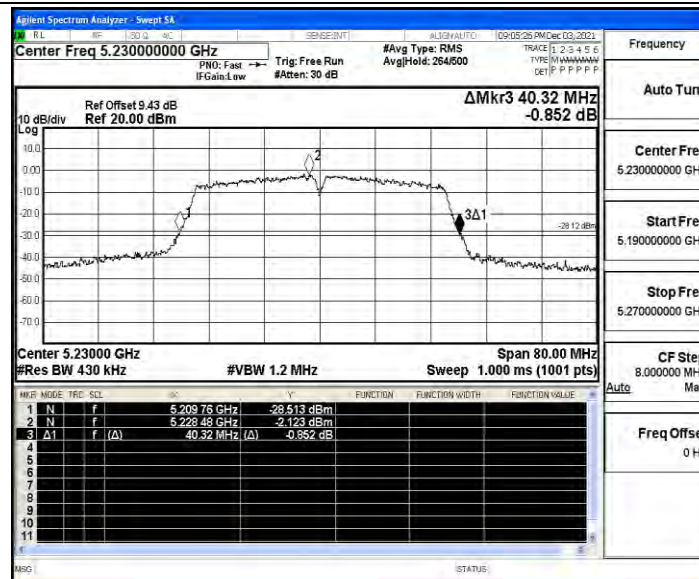
11N20SISO_Ant1_5240



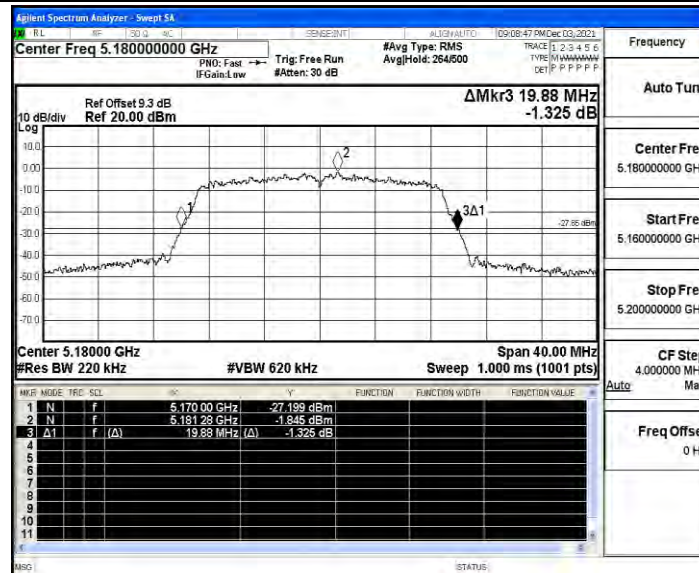
11N40SISO_Ant1_5190



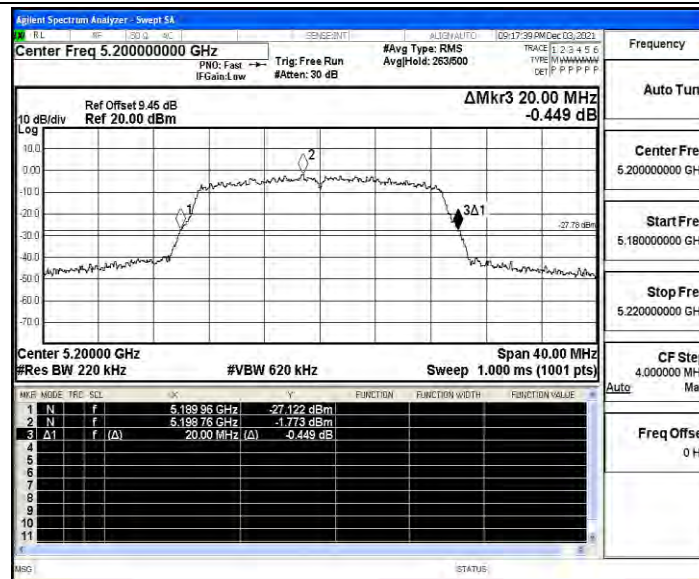
11N40SISO_Ant1_5230



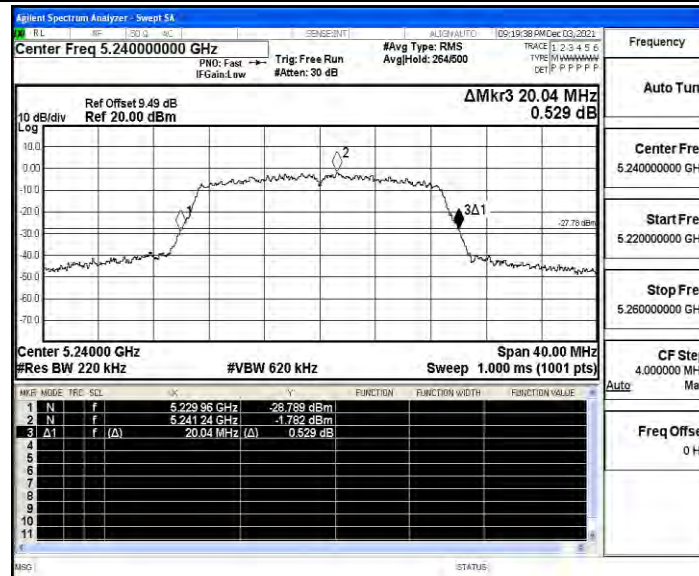
11AC20SISO_Ant1_5180



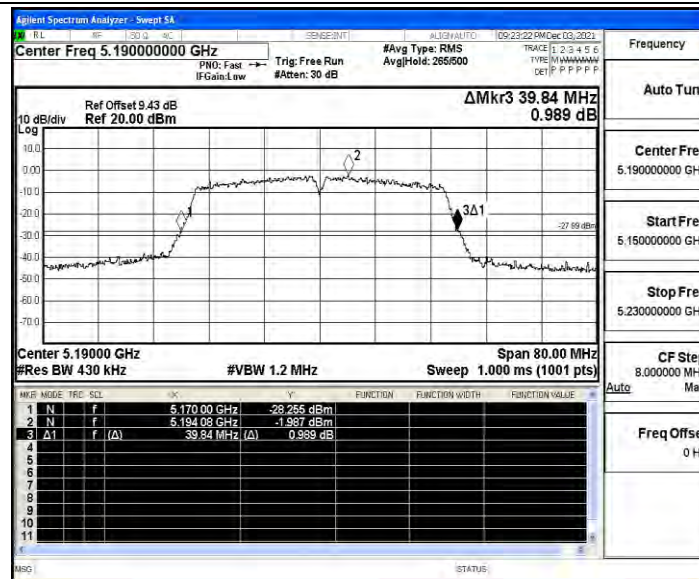
11AC20SISO_Ant1_5200



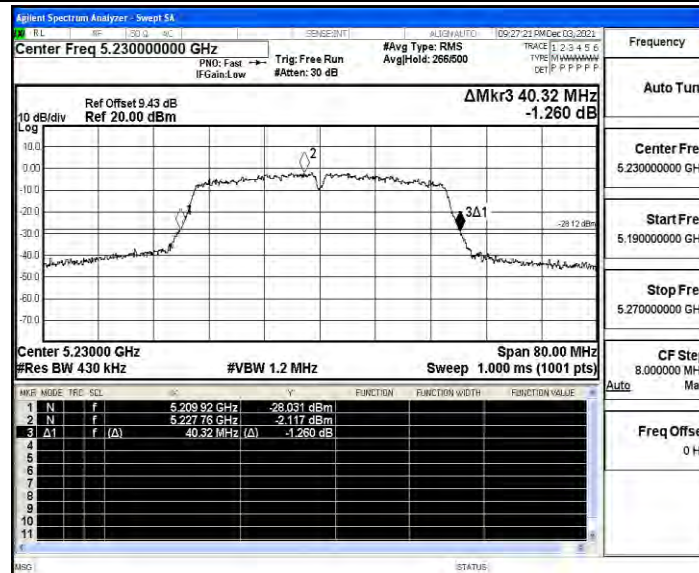
11AC20SISO_Ant1_5240



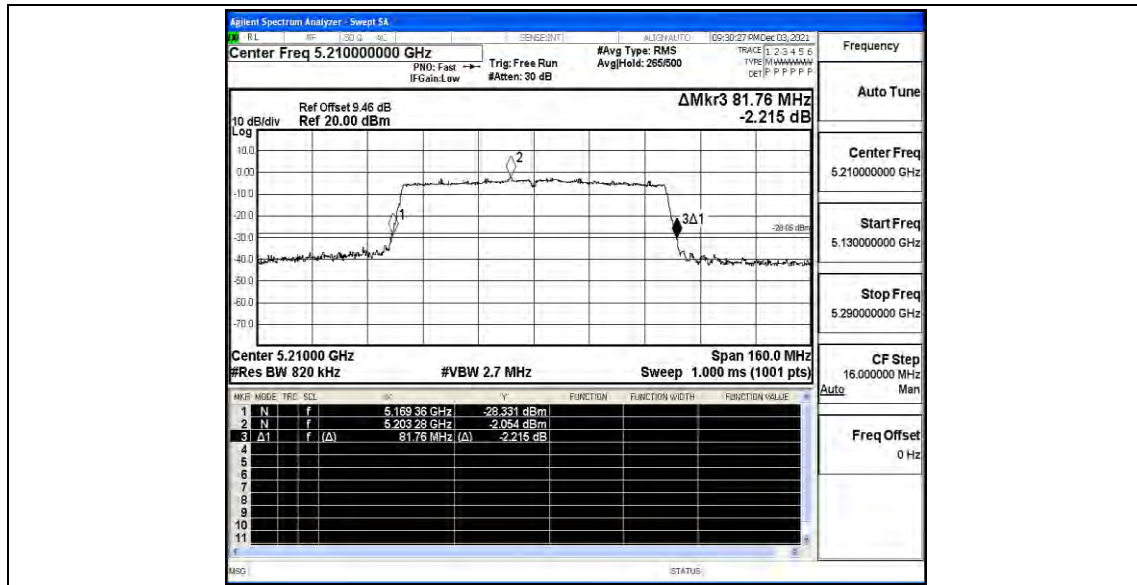
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





D.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant0	5180	5.88	≤23.98	PASS
		5200	5.77	≤23.98	PASS
		5240	5.45	≤23.98	PASS
11N20SISO	Ant0	5180	4.17	≤23.98	PASS
		5200	4.45	≤23.98	PASS
		5240	4.38	≤23.98	PASS
11N40SISO	Ant0	5190	4.19	≤23.98	PASS
		5230	3.38	≤23.98	PASS
11AC20SISO	Ant0	5180	3.91	≤23.98	PASS
		5200	3.84	≤23.98	PASS
		5240	3.62	≤23.98	PASS
11AC40SISO	Ant0	5190	4.11	≤23.98	PASS
		5230	3.11	≤23.98	PASS
11AC80SISO	Ant0	5210	3.65	≤23.98	PASS

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	5.87	≤23.98	PASS
		5200	5.54	≤23.98	PASS
		5240	5.74	≤23.98	PASS
11N20SISO	Ant1	5180	4.43	≤23.98	PASS
		5200	4.45	≤23.98	PASS
		5240	4.49	≤23.98	PASS
11N40SISO	Ant1	5190	4.62	≤23.98	PASS
		5230	4.69	≤23.98	PASS
11AC20SISO	Ant1	5180	4.39	≤23.98	PASS
		5200	4.84	≤23.98	PASS
		5240	4.61	≤23.98	PASS
11AC40SISO	Ant1	5190	4.90	≤23.98	PASS
		5230	4.98	≤23.98	PASS
11AC80SISO	Ant1	5210	4.93	≤23.98	PASS



MIMO

Test Mode	Channel	Frequency (MHz)	ANT 0 Conducted Power (dBm)	ANT 1 Conducted Power (dBm)	MIMO AV Conducted Power (dBm)	Limit (dBm)	Verdict
11N20	36	5180	4.17	4.43	7.31	≤23.98	Pass
	40	5200	4.45	4.45	7.46		Pass
	48	5240	4.38	4.49	7.45		Pass
11N40	38	5190	4.19	4.62	7.42	≤23.98	Pass
	46	5230	3.38	4.69	7.09		Pass
11AC20	36	5180	3.91	4.39	7.17	≤23.98	Pass
	40	5200	3.84	4.84	7.38		Pass
	48	5240	3.62	4.61	7.15		Pass
11AC40	38	5190	4.11	4.90	7.53	≤23.98	Pass
	46	5230	3.11	4.98	7.16		Pass
11AC80	42	5210	3.65	4.93	7.35	≤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	Ant0	5180	-4.13	≤11	PASS
		5200	-4.54	≤11	PASS
		5240	-5.17	≤11	PASS
11N20SISO	Ant0	5180	-4.85	≤11	PASS
		5200	-5.43	≤11	PASS
		5240	-5.07	≤11	PASS
11N40SISO	Ant0	5190	-9.3	≤11	PASS
		5230	-10.05	≤11	PASS
11AC20SISO	Ant0	5180	-6.03	≤11	PASS
		5200	-6.29	≤11	PASS
		5240	-6.77	≤11	PASS
11AC40SISO	Ant0	5190	-9.34	≤11	PASS
		5230	-10.78	≤11	PASS
11AC80SISO	Ant0	5210	-12.49	≤11	PASS

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-3.7	≤11	PASS
		5200	-2.46	≤11	PASS
		5240	-1.9	≤11	PASS
11N20SISO	Ant1	5180	-3.14	≤11	PASS
		5200	-3.19	≤11	PASS
		5240	-2.32	≤11	PASS
11N40SISO	Ant1	5190	-5.67	≤11	PASS
		5230	-5.37	≤11	PASS
11AC20SISO	Ant1	5180	-3.06	≤11	PASS
		5200	-2.78	≤11	PASS
		5240	-2.89	≤11	PASS
11AC40SISO	Ant1	5190	-5.58	≤11	PASS
		5230	-5.23	≤11	PASS
11AC80SISO	Ant1	5210	-9.17	≤11	PASS



MIMO

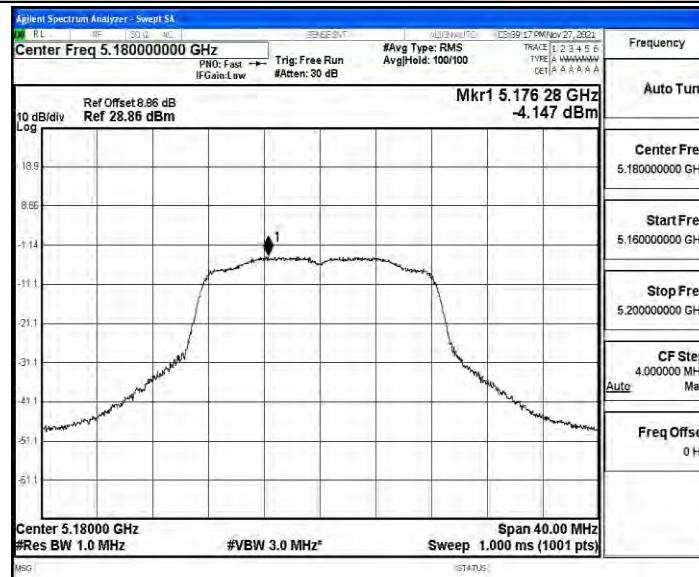
Test Mode	Channel	Frequency (MHz)	ANT 0 PSD (dBm/MHz)	ANT 1 PSD (dBm/MHz)	MIMO PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11N20	36	5180	-4.85	-3.14	-0.90	≤11	Pass
	40	5200	-5.43	-3.19	-1.16		Pass
	48	5240	-5.07	-2.32	-0.47		Pass
11N40	38	5190	-9.3	-5.67	-4.11	≤11	Pass
	46	5230	-10.05	-5.37	-4.10		Pass
11AC20	36	5180	-6.03	-3.06	-1.29	≤11	Pass
	40	5200	-6.29	-2.78	-1.18		Pass
	48	5240	-6.77	-2.89	-1.40		Pass
11AC40	38	5190	-9.34	-5.58	-4.05	≤11	Pass
	46	5230	-10.78	-5.23	-4.16		Pass
11AC80	42	5210	-12.49	-9.17	-7.51	≤11	Pass

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

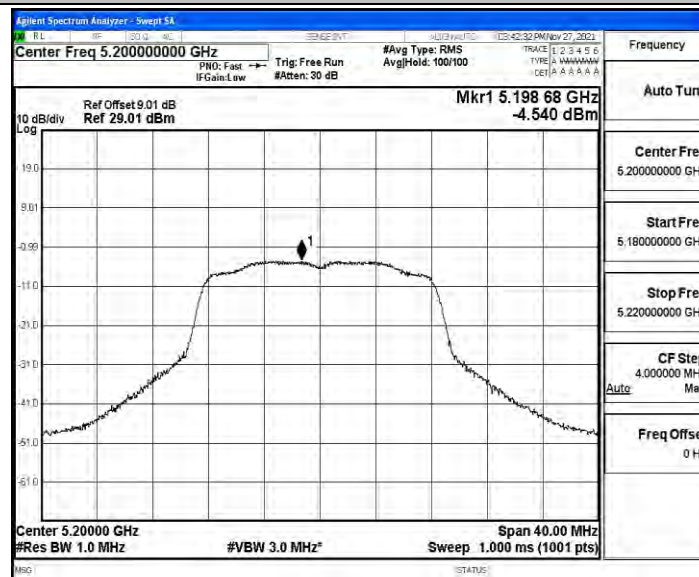


Test Graphs

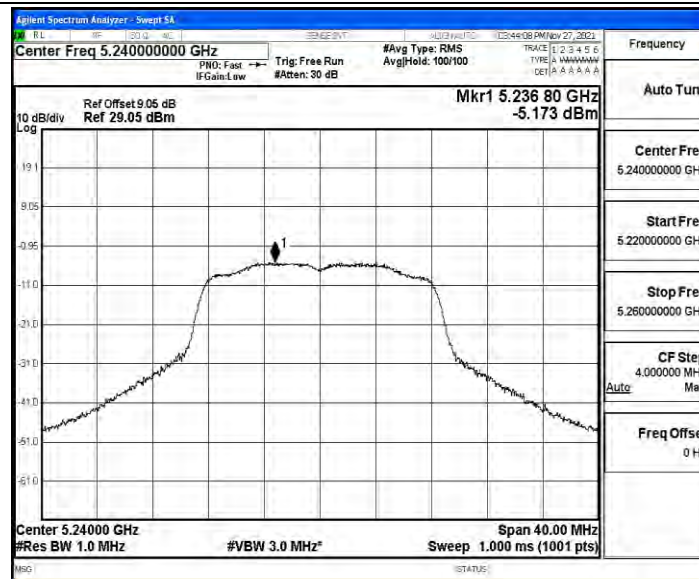
11A_Ant0_5180



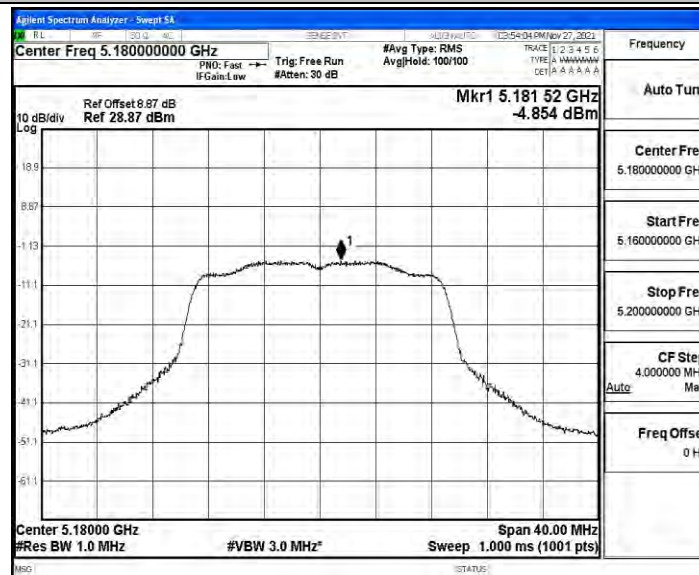
11A_Ant0_5200



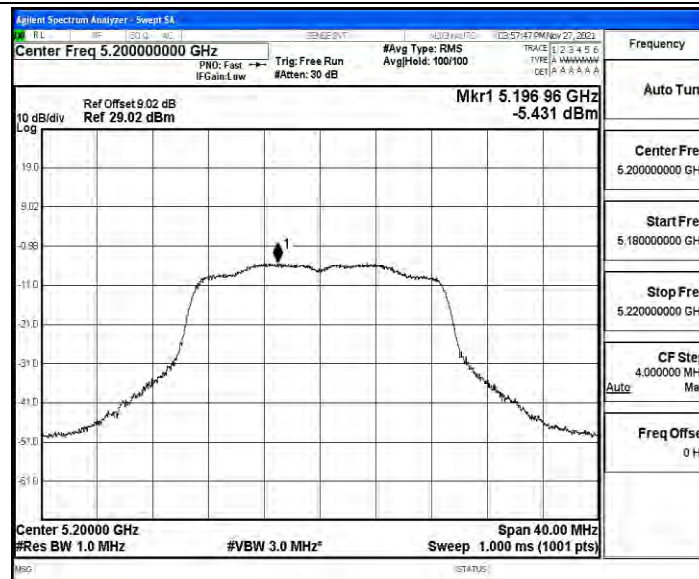
11A_Ant0_5240



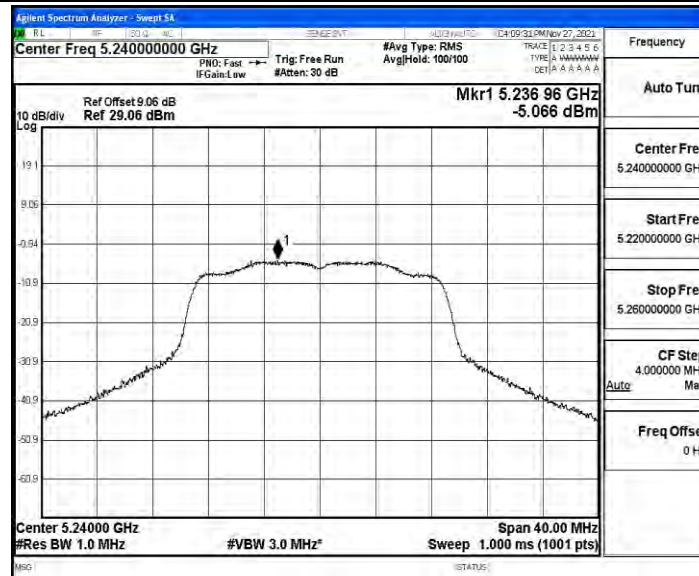
11N20SISO_Ant0_5180



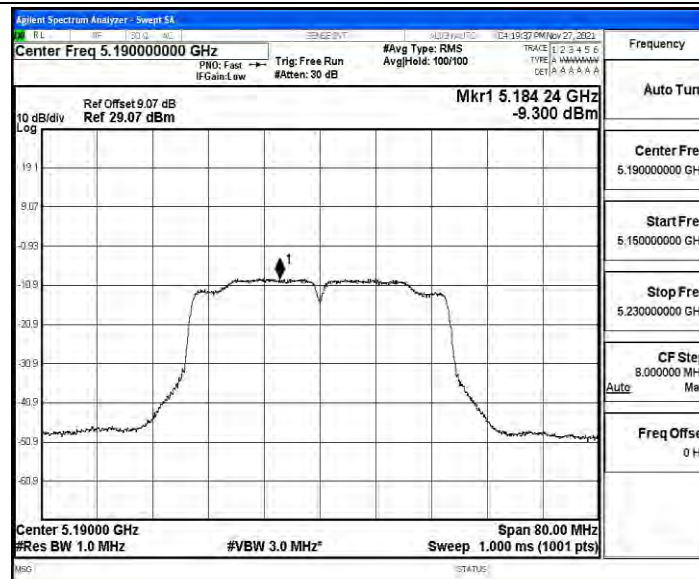
11N20SISO_Ant0_5200



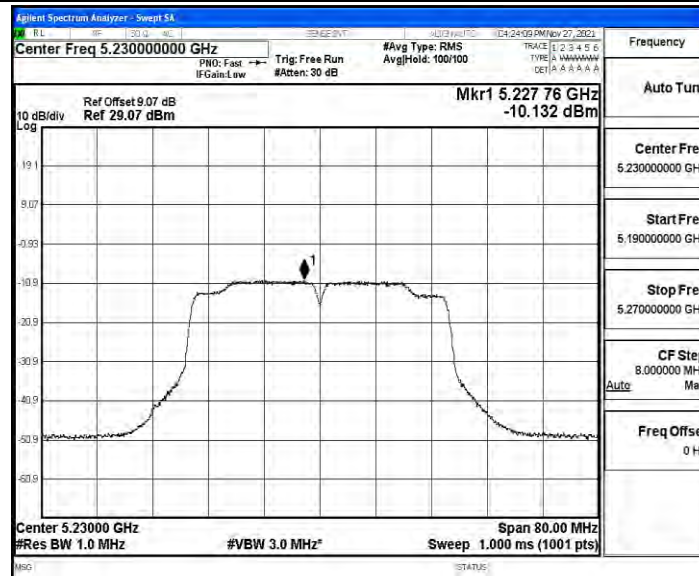
11N20SISO_Ant0_5240



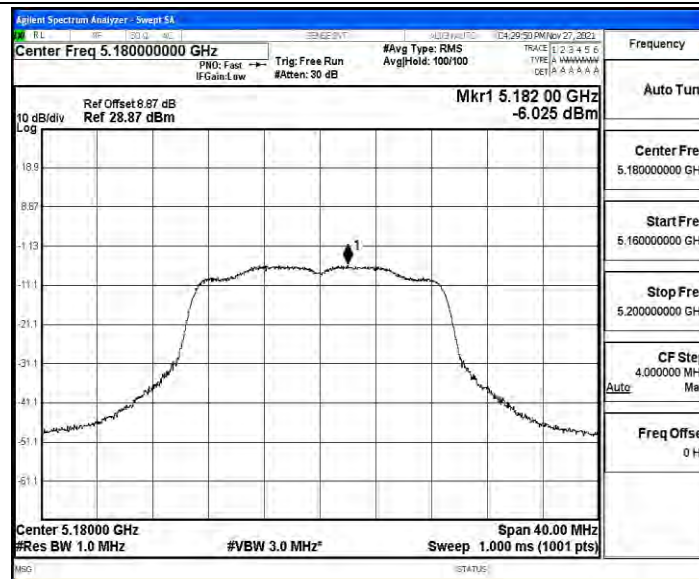
11N40SISO_Ant0_5190



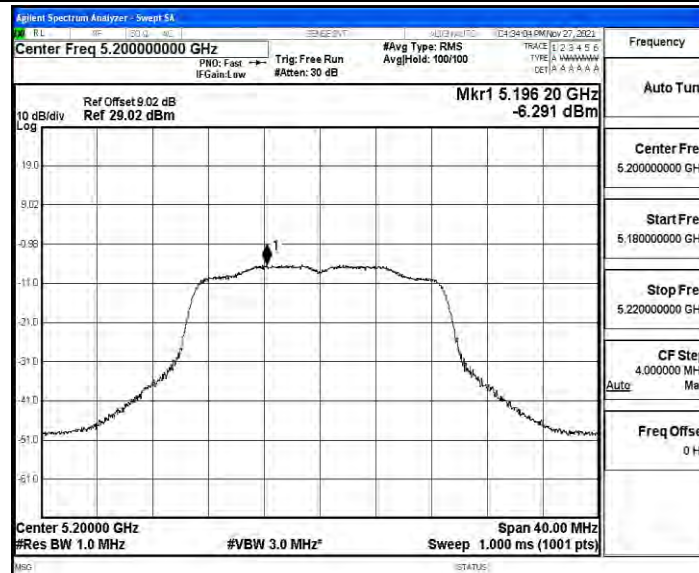
11N40SISO_Ant0_5230



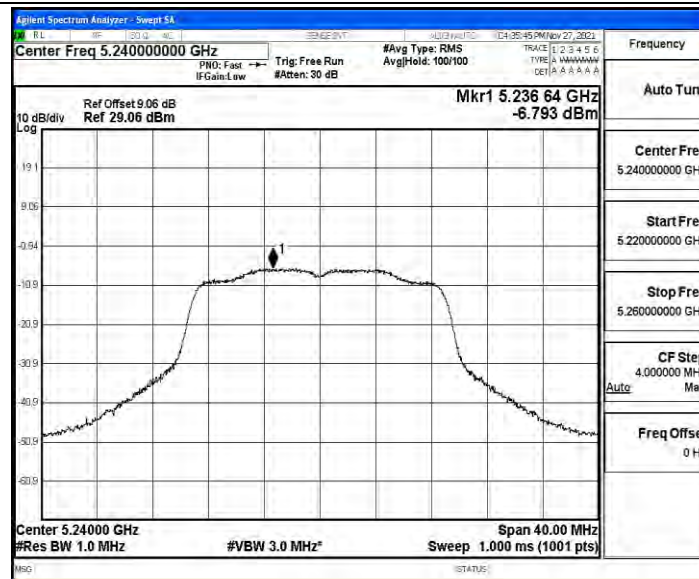
11AC20SISO_Ant0_5180



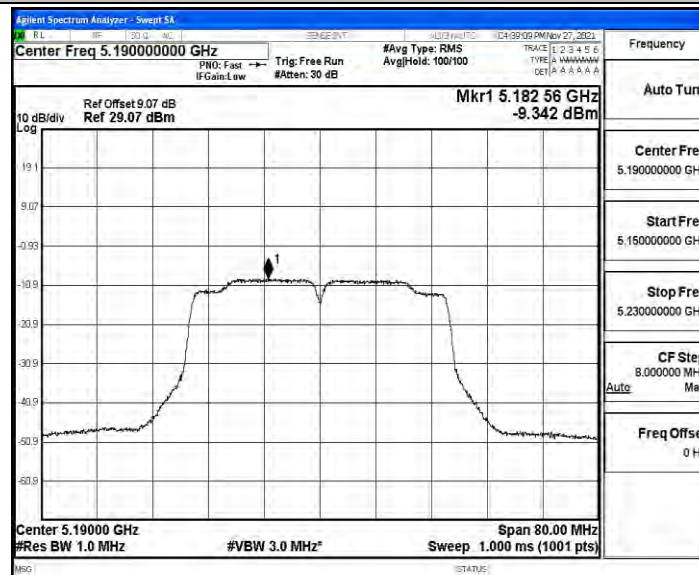
11AC20SISO_Ant0_5200



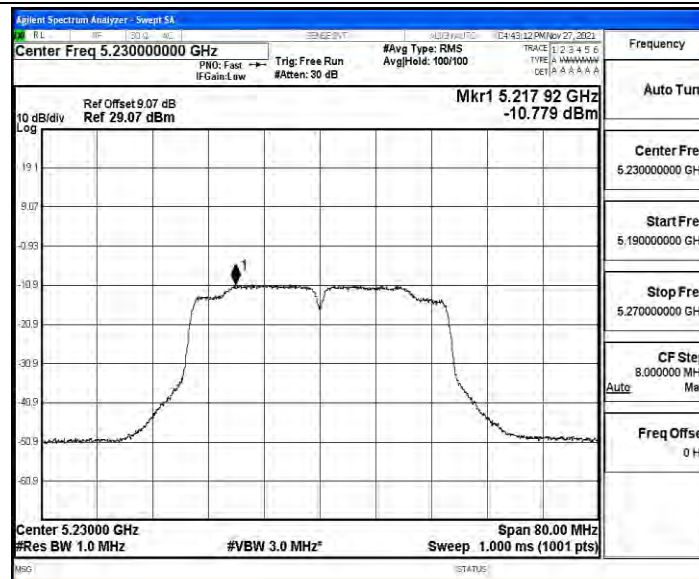
11AC20SISO_Ant0_5240



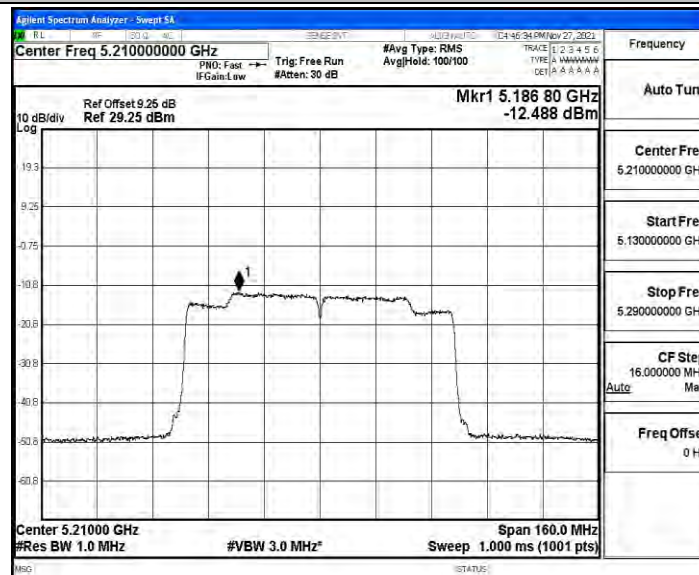
11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230



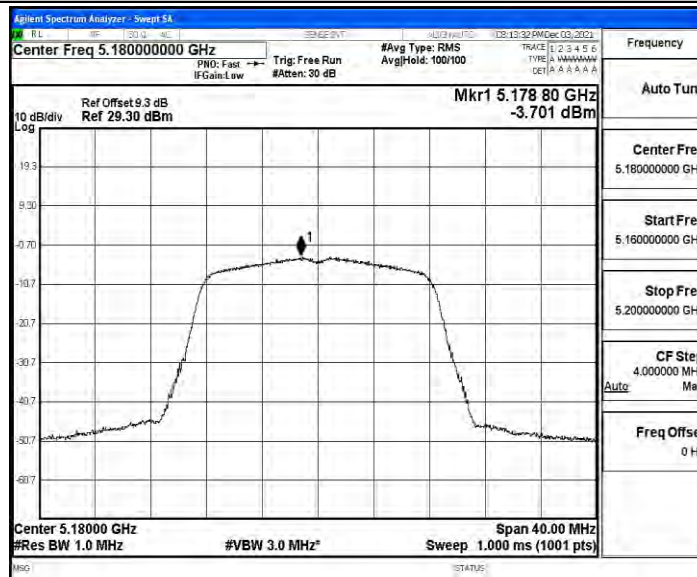
11AC80SISO_Ant0_5210



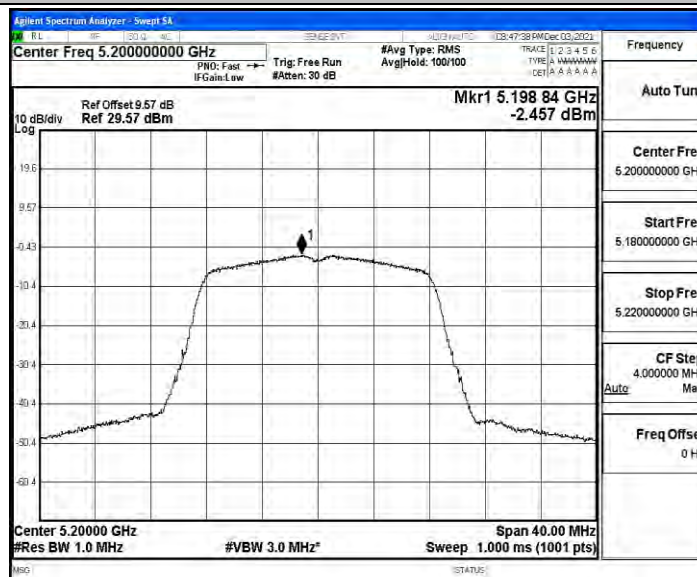


Test Graphs

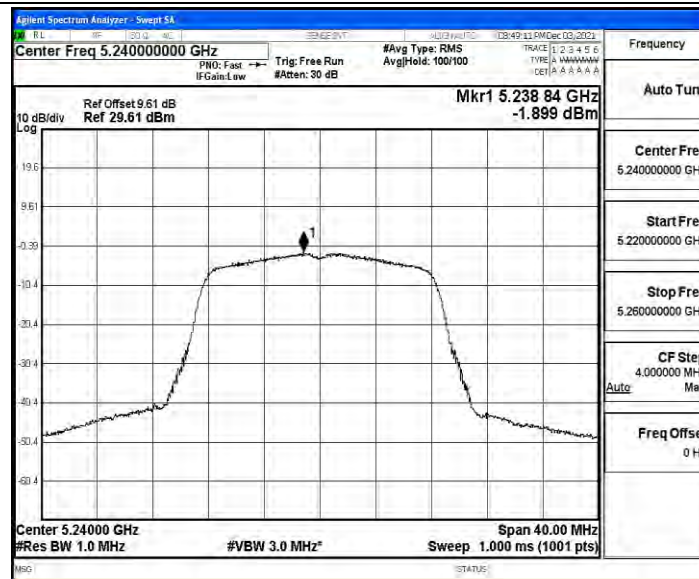
11A_Ant1_5180



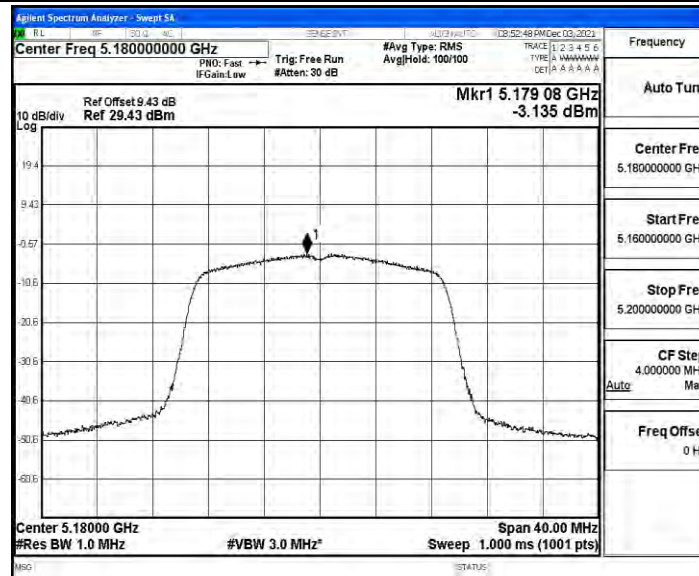
11A_Ant1_5200



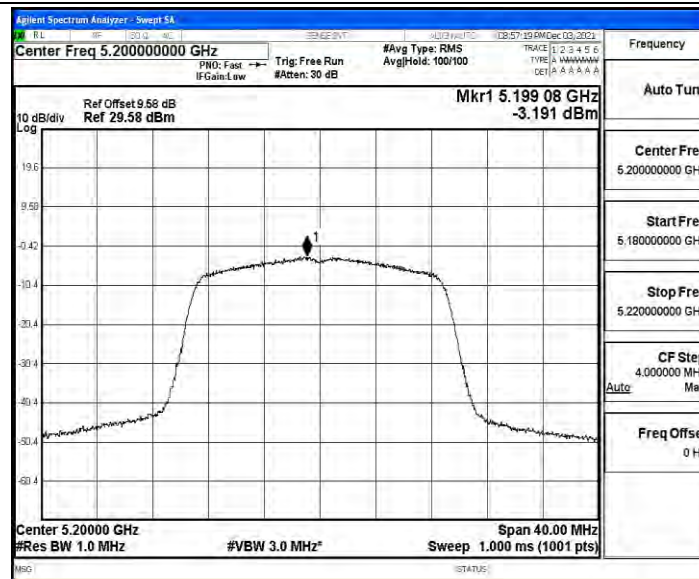
11A_Ant1_5240



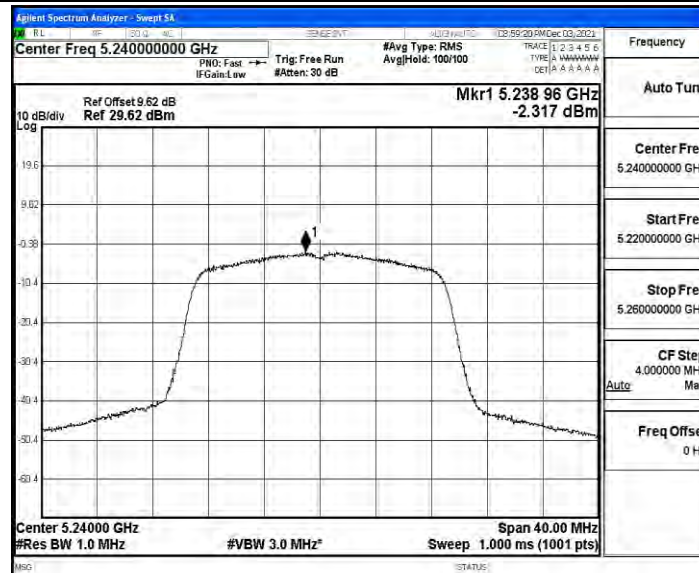
11N20SISO_Ant1_5180



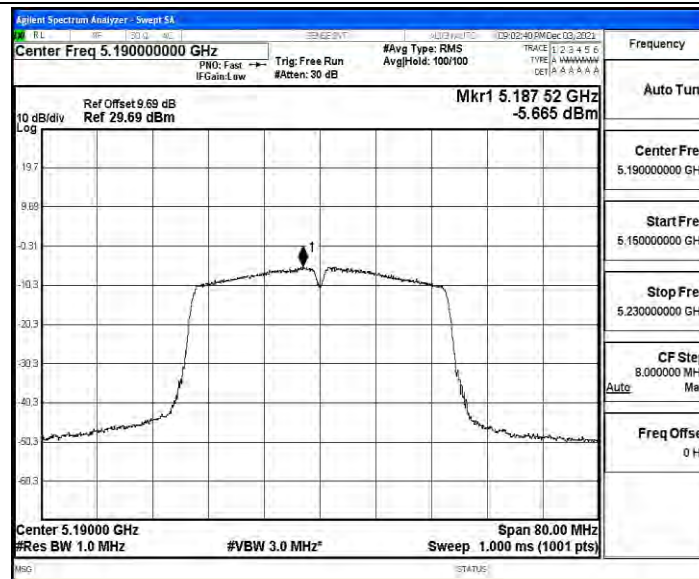
11N20SISO_Ant1_5200



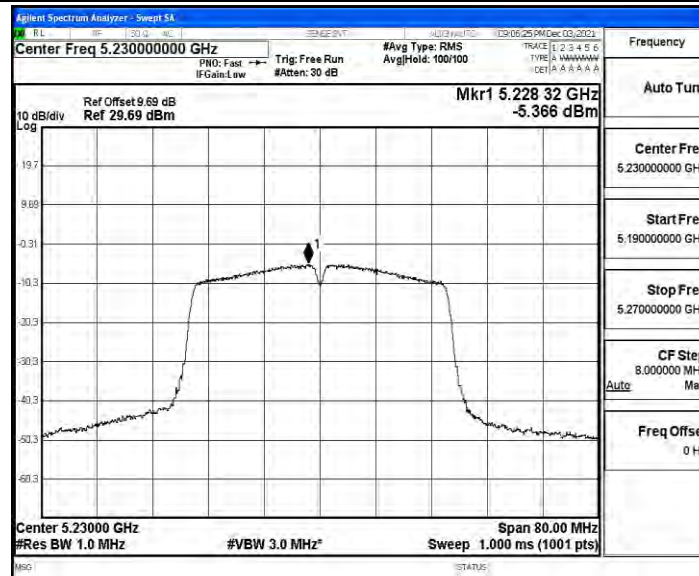
11N20SISO_Ant1_5240



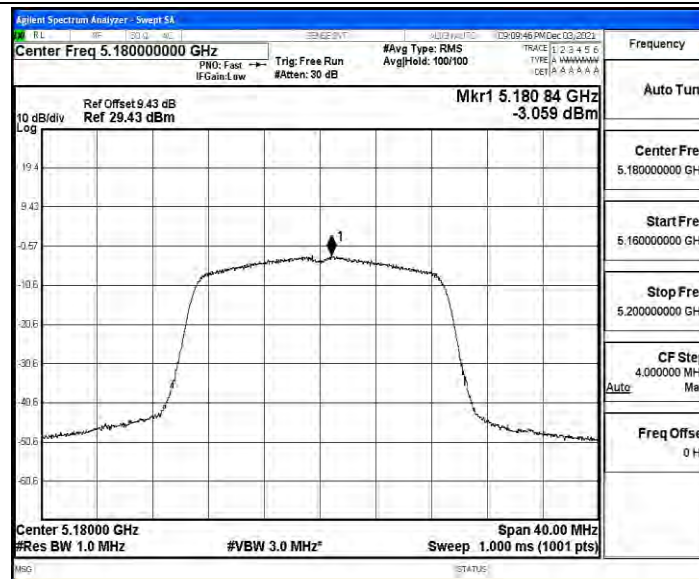
11N40SISO_Ant1_5190



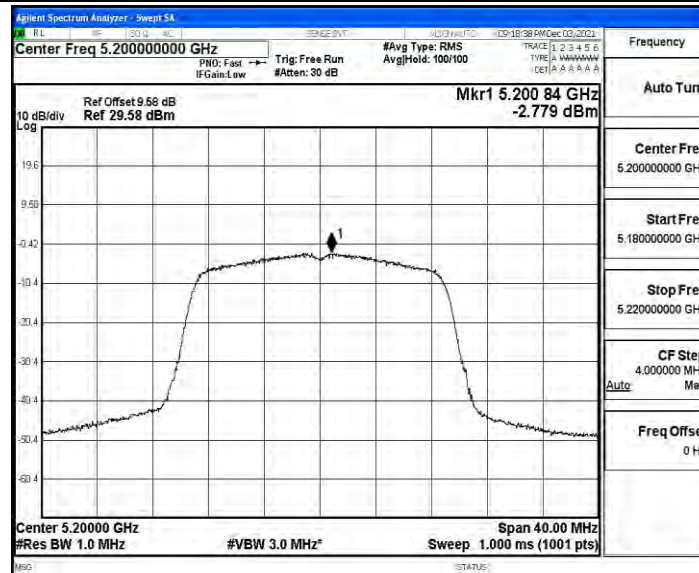
11N40SISO_Ant1_5230



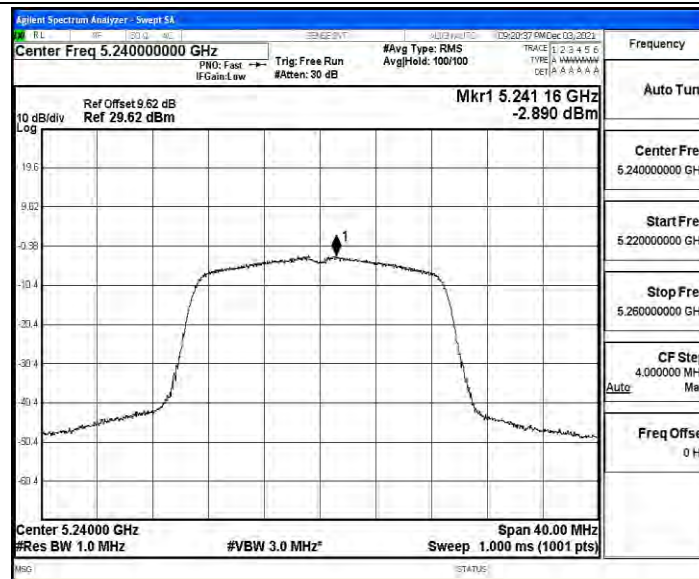
11AC20SISO_Ant1_5180



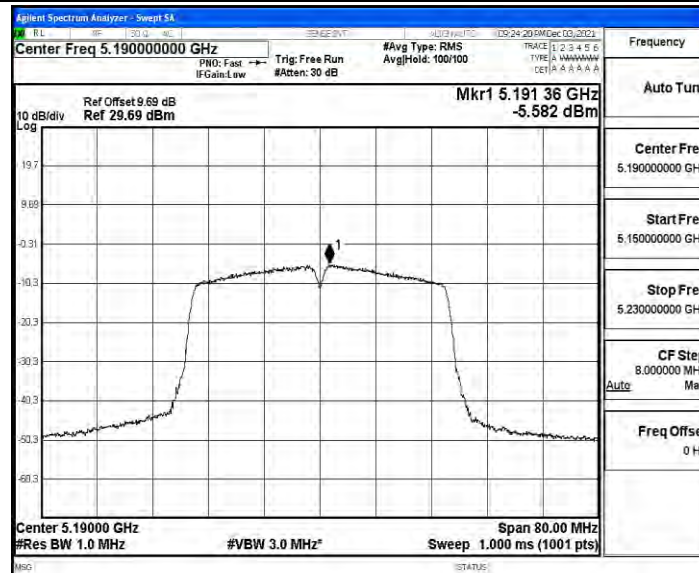
11AC20SISO_Ant1_5200



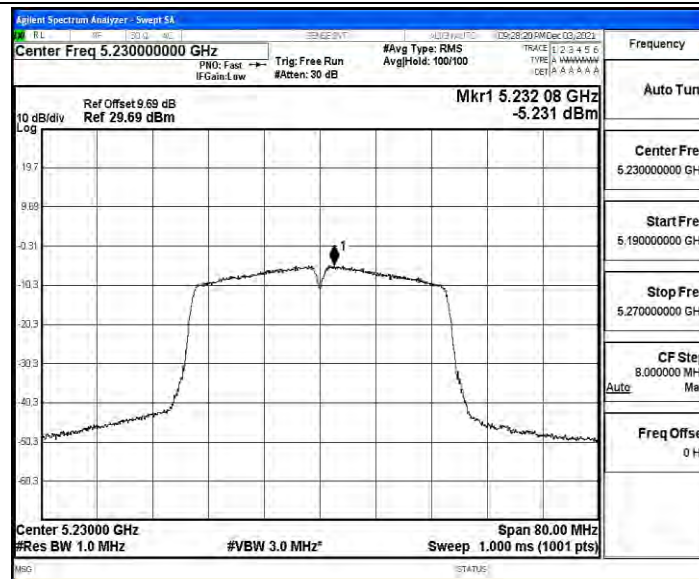
11AC20SISO_Ant1_5240



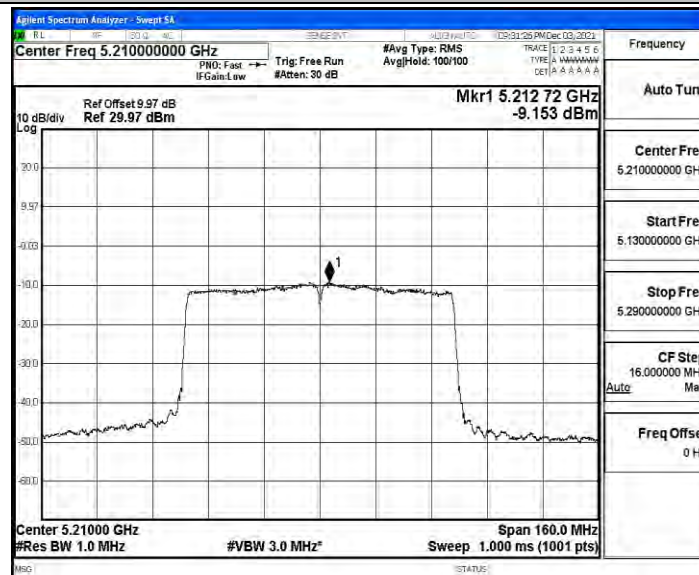
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210





D.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant0	5180	AV	4500.000	-48.57	≤-41.20	46.63	≤54	PASS
			AV	4825.500	-45.35	≤-41.20	49.85	≤54	PASS
			AV	5150.000	-45.39	≤-41.20	49.81	≤54	PASS
			Peak	4500.000	-44.11	≤-21.20	51.09	≤74	PASS
			Peak	4980.200	-38.36	≤-21.20	56.84	≤74	PASS
			Peak	5150.000	-43.36	≤-21.20	51.84	≤74	PASS
		5240	AV	5350.000	-46.9	≤-41.20	48.30	≤54	PASS
			AV	5449.680	-46.12	≤-41.20	49.08	≤54	PASS
			AV	5460.000	-47.5	≤-41.20	47.70	≤54	PASS
			Peak	5350.000	-43.54	≤-21.20	51.66	≤74	PASS
			Peak	5401.680	-38.77	≤-21.20	56.43	≤74	PASS
			Peak	5460.000	-44.66	≤-21.20	50.54	≤74	PASS
11N20 SISO	Ant0	5180	AV	4500.000	-48.04	≤-41.20	47.16	≤54	PASS
			AV	4854.900	-45.38	≤-41.20	49.82	≤54	PASS
			AV	5150.000	-46.02	≤-41.20	49.18	≤54	PASS
			Peak	4500.000	-43.35	≤-21.20	51.85	≤74	PASS
			Peak	4893.400	-38.52	≤-21.20	56.68	≤74	PASS
			Peak	5150.000	-40.14	≤-21.20	55.06	≤74	PASS
		5240	AV	5350.000	-46.29	≤-41.20	48.91	≤54	PASS
			AV	5414.880	-45.58	≤-41.20	49.62	≤54	PASS
			AV	5460.000	-47.01	≤-41.20	48.19	≤54	PASS
			Peak	5350.000	-39.82	≤-21.20	55.38	≤74	PASS
			Peak	5406.960	-39.41	≤-21.20	55.79	≤74	PASS
			Peak	5460.000	-43.59	≤-21.20	51.61	≤74	PASS
11N40 SISO	Ant0	5190	AV	4500.000	-49.08	≤-41.20	46.12	≤54	PASS
			AV	5149.600	-45.01	≤-41.20	50.19	≤54	PASS
			AV	5150.000	-44.86	≤-41.20	50.34	≤54	PASS
			Peak	4500.000	-42.9	≤-21.20	52.30	≤74	PASS
			Peak	5143.300	-36.83	≤-21.20	58.37	≤74	PASS
			Peak	5150.000	-38.65	≤-21.20	56.55	≤74	PASS
		5230	AV	5350.000	-47.47	≤-41.20	47.73	≤54	PASS
			AV	5411.640	-47	≤-41.20	48.20	≤54	PASS
			AV	5460.000	-47.45	≤-41.20	47.75	≤54	PASS
			Peak	5350.000	-40.91	≤-21.20	54.29	≤74	PASS
			Peak	5357.040	-37.89	≤-21.20	57.31	≤74	PASS
			Peak	5460.000	-41.24	≤-21.20	53.96	≤74	PASS



11AC20 SISO	Ant0	5180	AV	4500.000	-48.62	≤-41.20	46.58	≤54	PASS
			AV	4831.800	-45.19	≤-41.20	50.01	≤54	PASS
			AV	5150.000	-45.9	≤-41.20	49.30	≤54	PASS
			Peak	4500.000	-44.03	≤-21.20	51.17	≤74	PASS
			Peak	4819.200	-38.26	≤-21.20	56.94	≤74	PASS
			Peak	5150.000	-43.21	≤-21.20	51.99	≤74	PASS
		5240	AV	5350.000	-46.76	≤-41.20	48.44	≤54	PASS
			AV	5362.800	-45.31	≤-41.20	49.89	≤54	PASS
			AV	5460.000	-47.14	≤-41.20	48.06	≤54	PASS
			Peak	5350.000	-42.23	≤-21.20	52.97	≤74	PASS
			Peak	5419.680	-38.83	≤-21.20	56.37	≤74	PASS
			Peak	5460.000	-42.94	≤-21.20	52.26	≤74	PASS
11AC40 SISO	Ant0	5190	AV	4500.000	-49.09	≤-41.20	46.11	≤54	PASS
			AV	5149.600	-45.14	≤-41.20	50.06	≤54	PASS
			AV	5150.000	-45.16	≤-41.20	50.04	≤54	PASS
			Peak	4500.000	-41.8	≤-21.20	53.40	≤74	PASS
			Peak	4838.800	-36.74	≤-21.20	58.46	≤74	PASS
			Peak	5150.000	-38.28	≤-21.20	56.92	≤74	PASS
		5230	AV	5350.000	-47.43	≤-41.20	47.77	≤54	PASS
			AV	5357.300	-47.19	≤-41.20	48.01	≤54	PASS
			AV	5460.000	-47.5	≤-41.20	47.70	≤54	PASS
			Peak	5350.000	-41.06	≤-21.20	54.14	≤74	PASS
			Peak	5457.400	-37.9	≤-21.20	57.30	≤74	PASS
			Peak	5460.000	-40.5	≤-21.20	54.70	≤74	PASS
11AC80 SISO	Ant0	5210	AV	4500.000	-47.16	≤-41.20	48.07	≤54	PASS
			AV	4565.250	-45.63	≤-41.20	49.60	≤54	PASS
			AV	5150.000	-46.4	≤-41.20	48.83	≤54	PASS
			Peak	4500.000	-40.14	≤-21.20	55.06	≤74	PASS
			Peak	4647.000	-34.73	≤-21.20	60.47	≤74	PASS
			Peak	5150.000	-34.83	≤-21.20	60.37	≤74	PASS
		5210	AV	5350.000	-47.1	≤-41.20	48.10	≤54	PASS
			AV	5351.640	-46.74	≤-41.20	48.46	≤54	PASS
			AV	5460.000	-47.03	≤-41.20	48.17	≤54	PASS
			Peak	5350.000	-40.67	≤-21.20	54.53	≤74	PASS
			Peak	5389.720	-38.04	≤-21.20	57.16	≤74	PASS
			Peak	5460.000	-40.55	≤-21.20	54.65	≤74	PASS

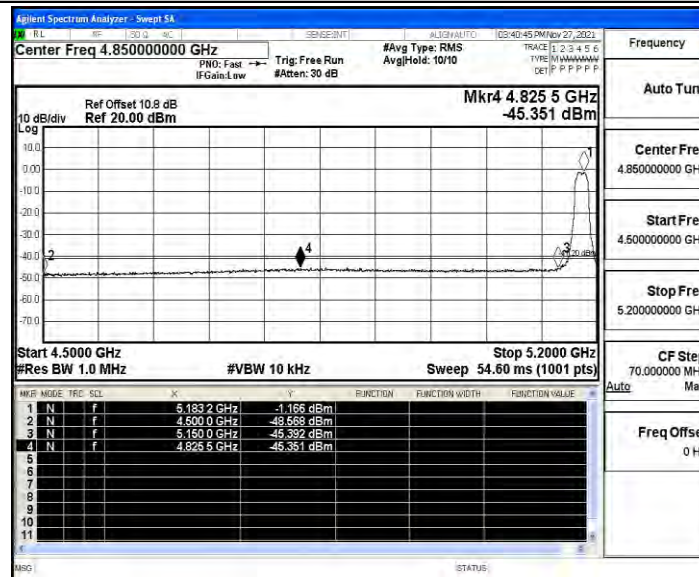
Note:

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.

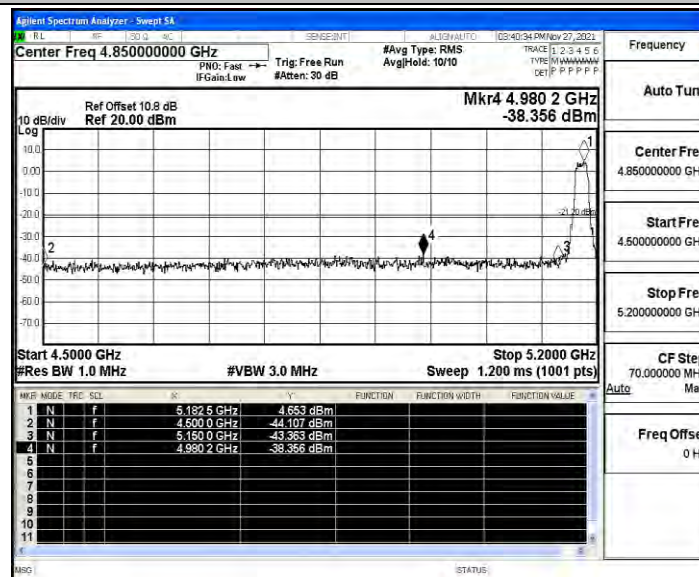


Test Graphs

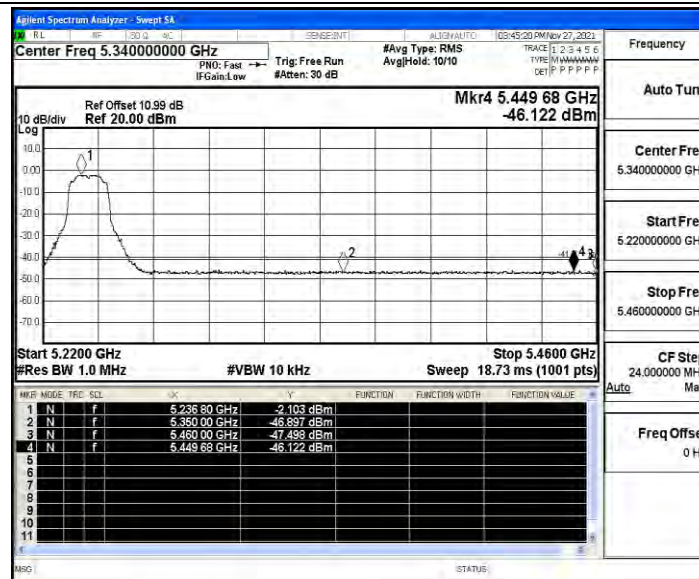
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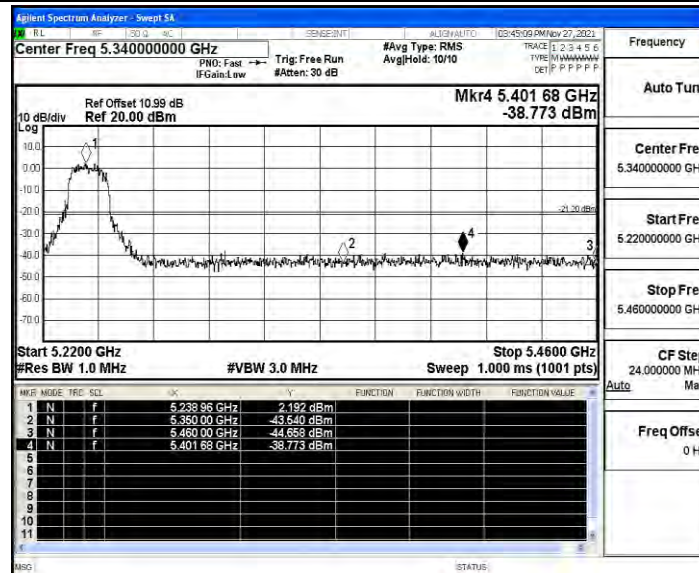
11A_Ant0_Low_5180_Peak



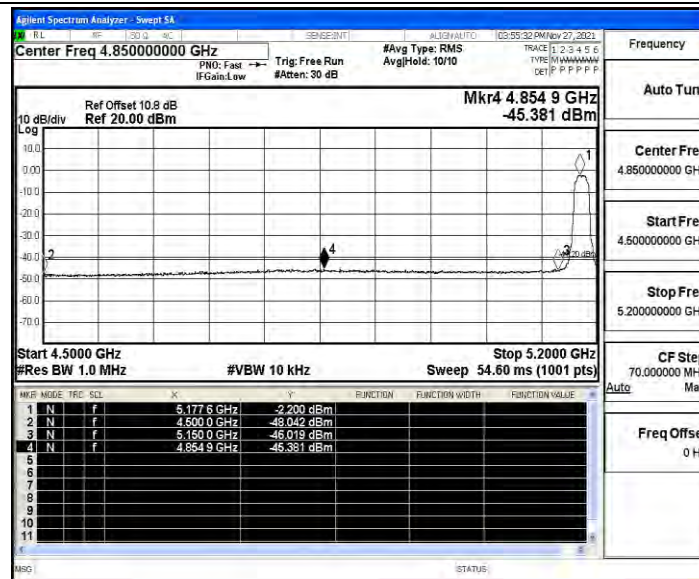
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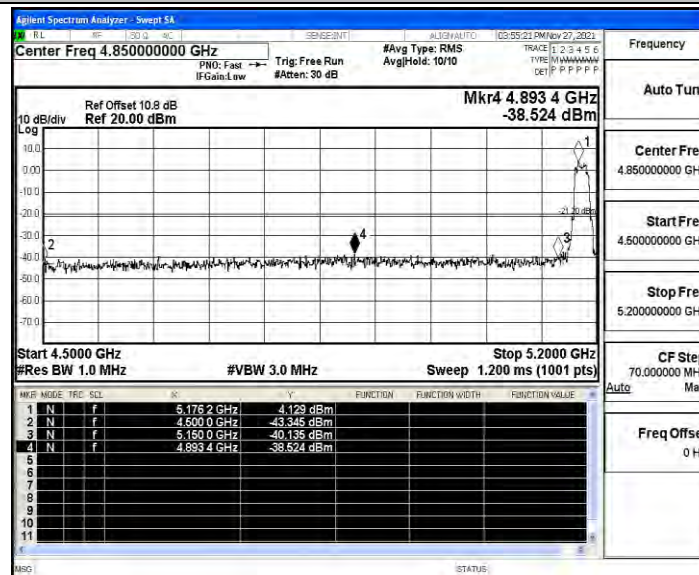
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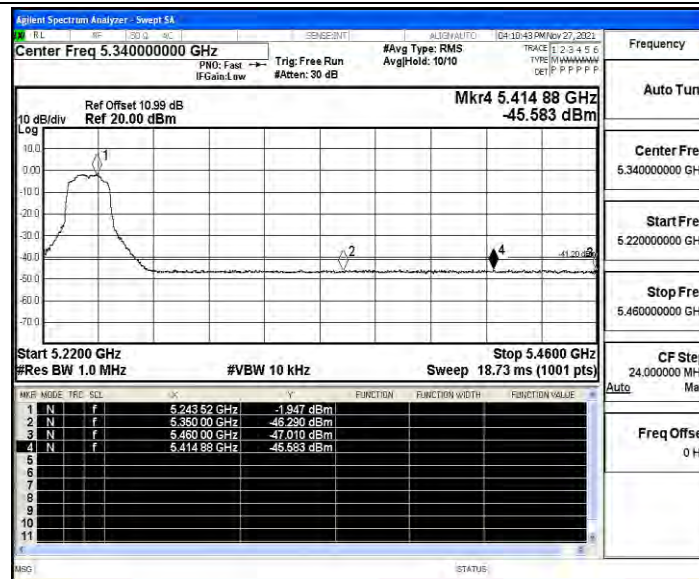
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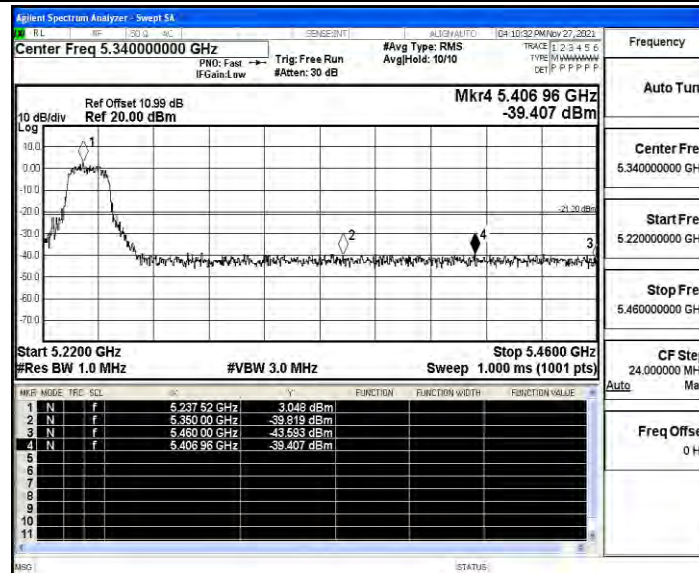
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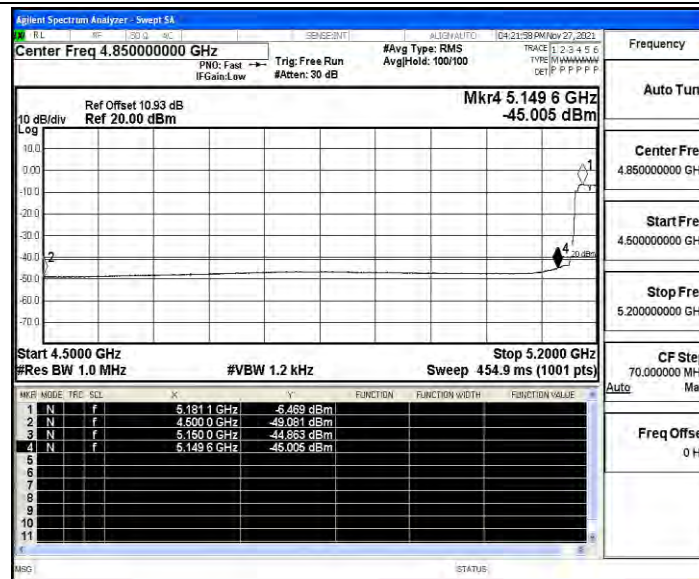
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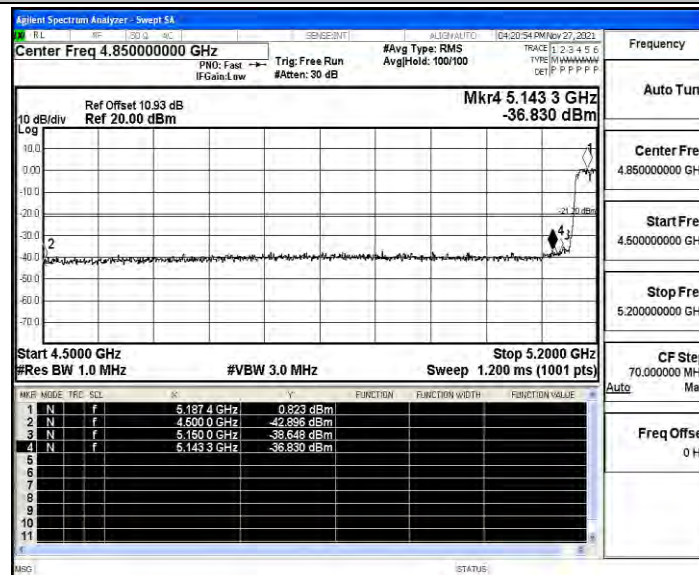
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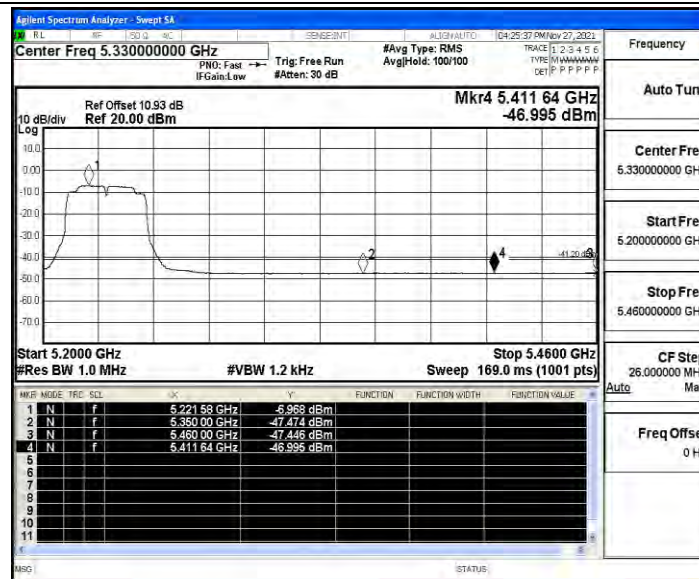
11N40SISO_Ant0_Low_5190_AV



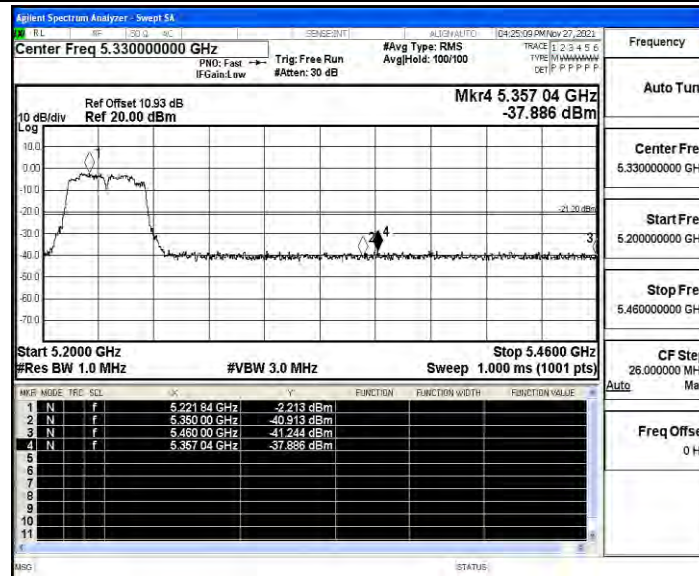
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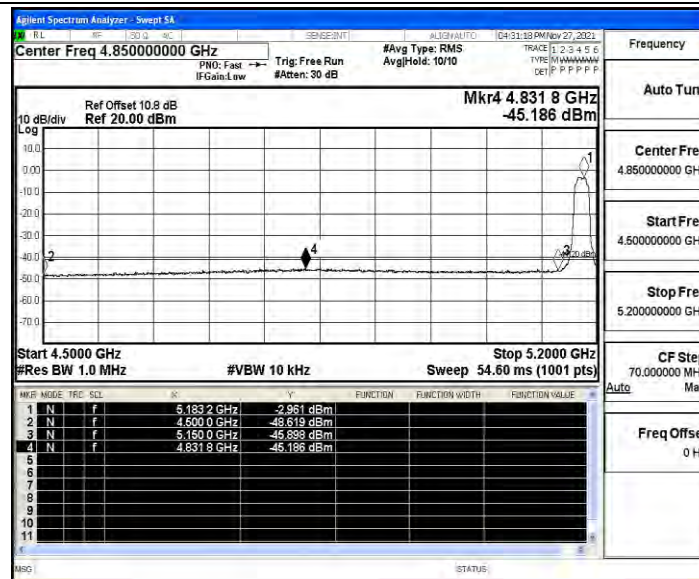
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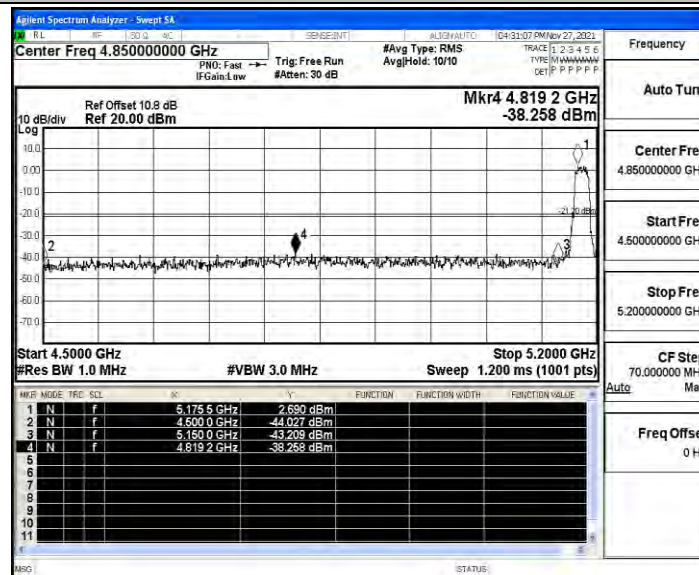
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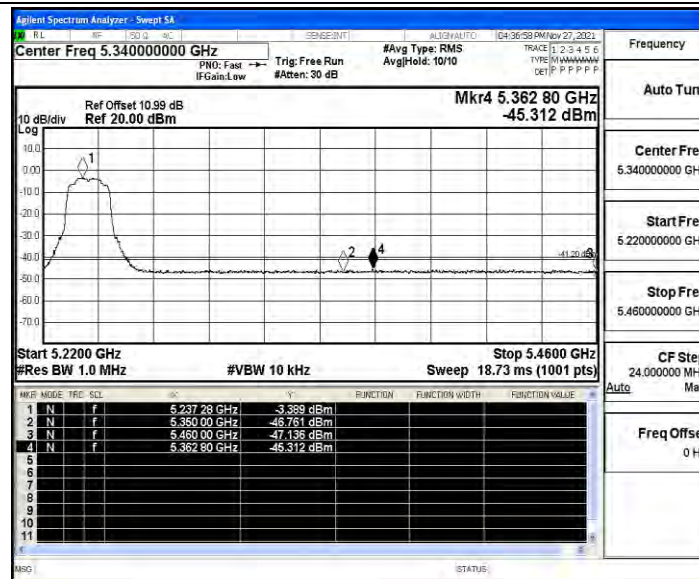
11AC20SISO_Ant0_Low_5180_AV



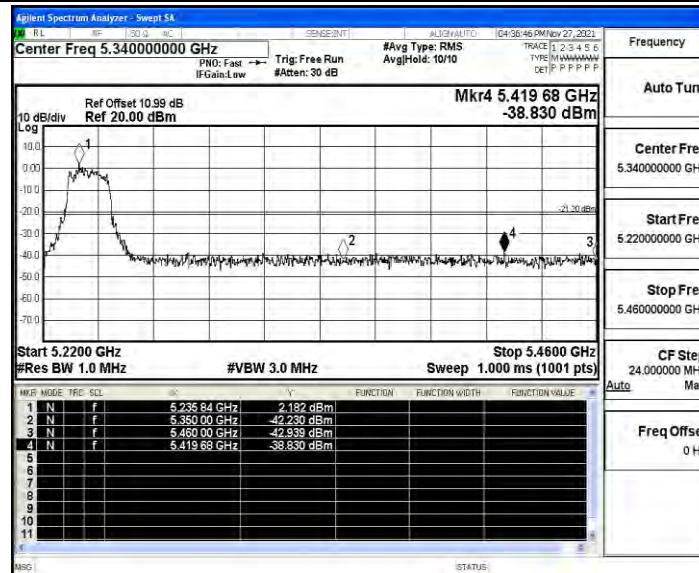
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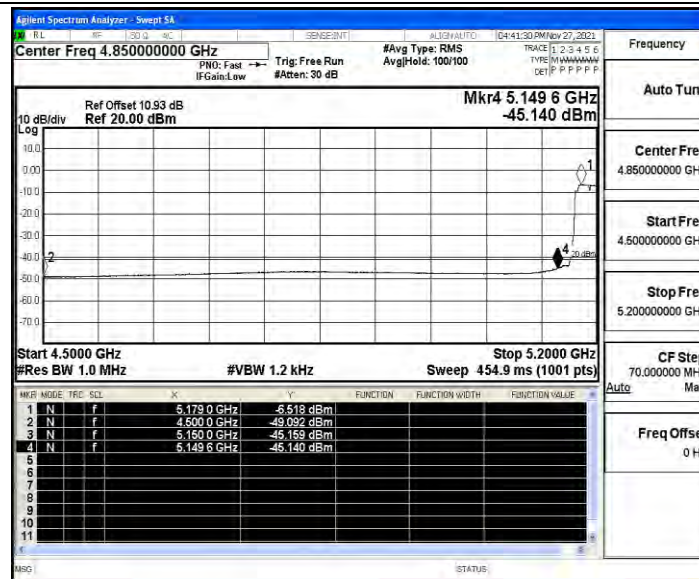
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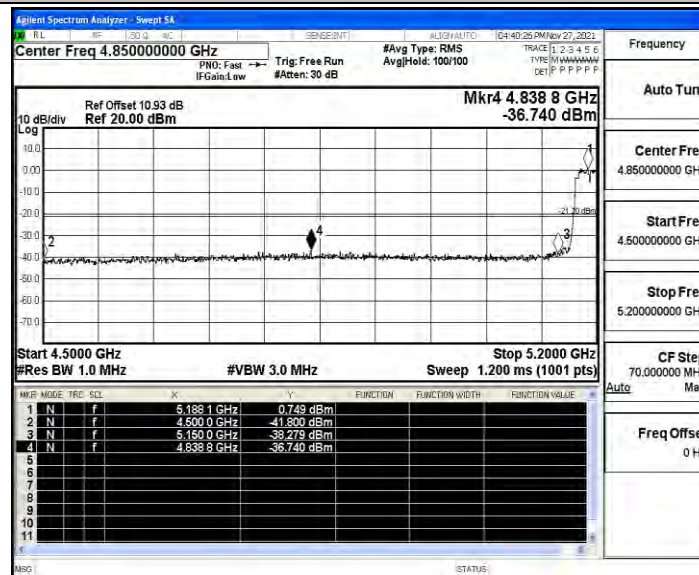
11AC20SISO_Ant0_High_5240_Peak



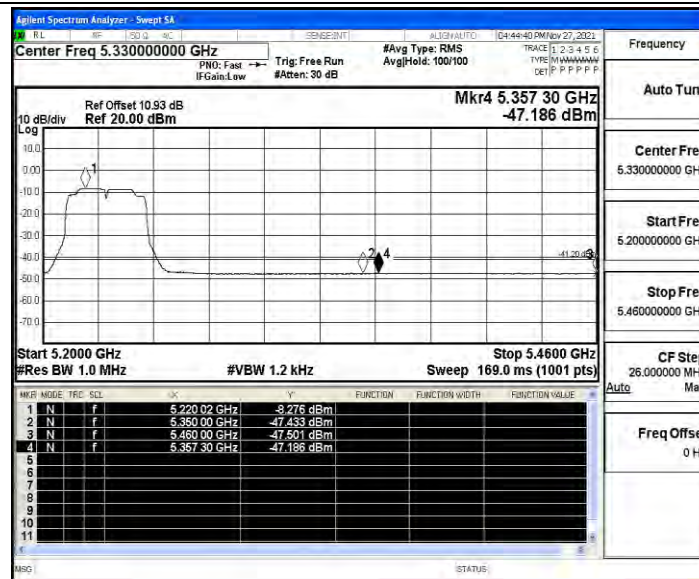
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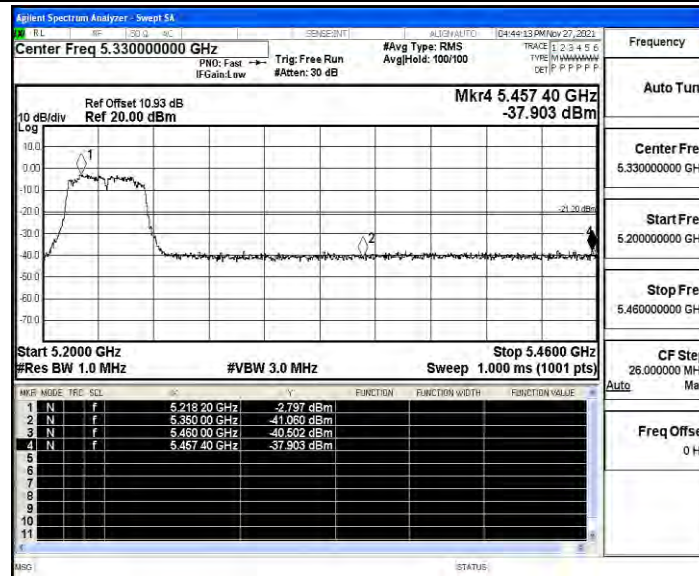
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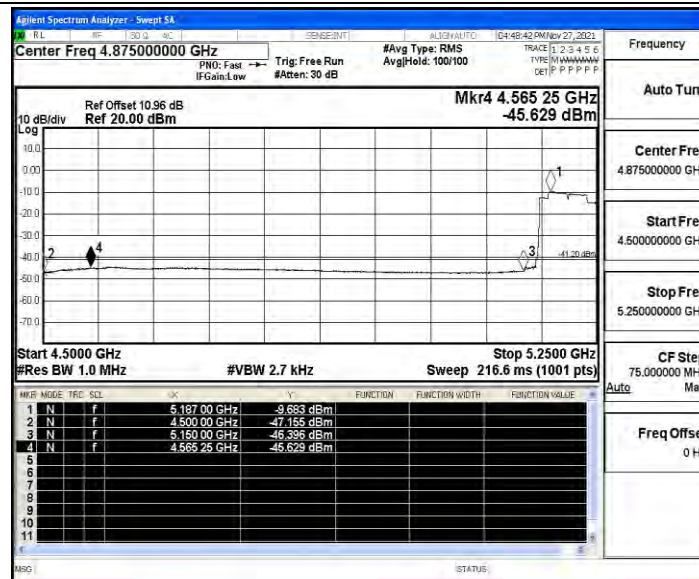
11AC40SISO_Ant0_High_5230_AV



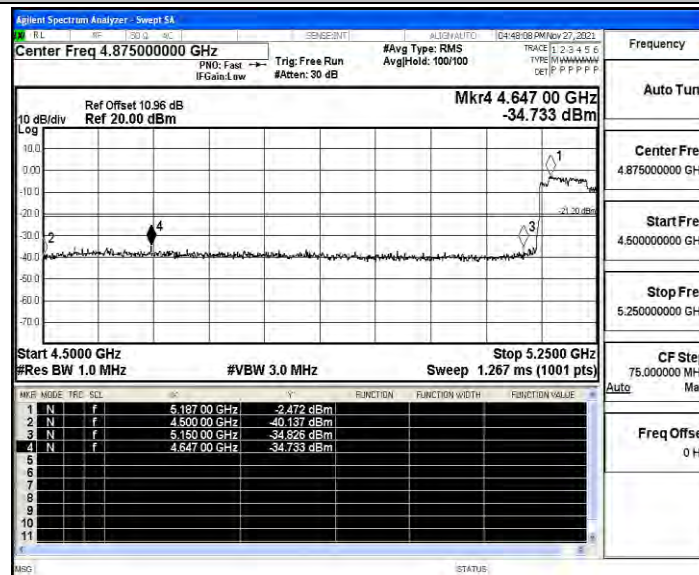
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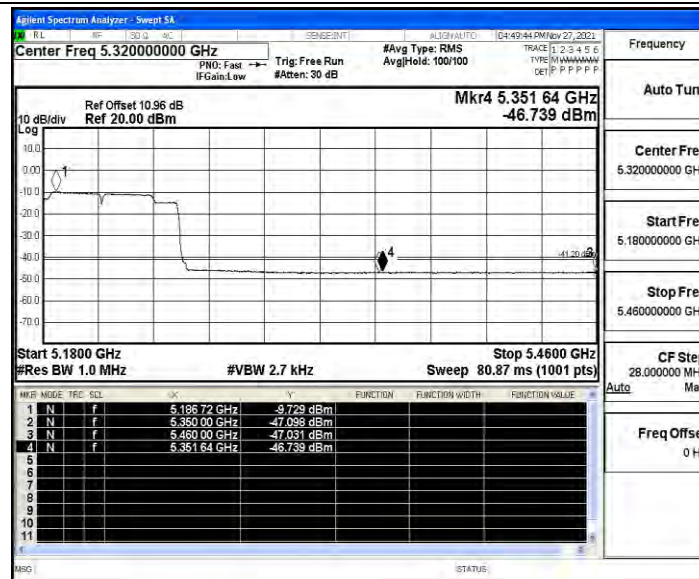
11AC80SISO_Ant0_Low_5210_AV



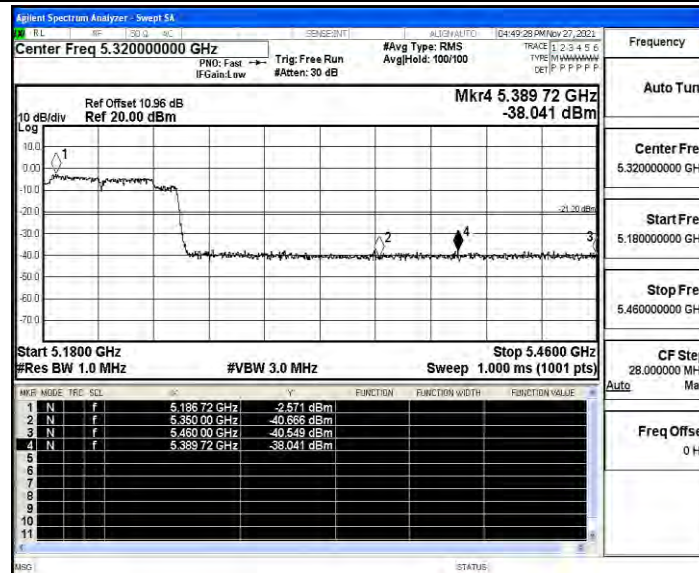
11AC80SISO_Ant0_Low_5210_Peak



11AC80SISO_Ant0_High_5210_AV



11AC80SISO_Ant0_High_5210_Peak





TestMode	Antenna	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	5180	AV	4500.000	-49.41	≤-41.20	45.79	≤54	PASS
			AV	4842.300	-47.53	≤-41.20	47.67	≤54	PASS
			AV	5150.000	-47.74	≤-41.20	47.46	≤54	PASS
			Peak	4500.000	-45.71	≤-21.20	49.49	≤74	PASS
			Peak	4918.600	-38.9	≤-21.20	56.30	≤74	PASS
			Peak	5150.000	-41.2	≤-21.20	54.00	≤74	PASS
		5240	AV	5350.000	-47.23	≤-41.20	47.97	≤54	PASS
			AV	5354.640	-46.99	≤-41.20	48.21	≤54	PASS
			AV	5460.000	-47.48	≤-41.20	47.72	≤54	PASS
			Peak	5350.000	-39.12	≤-21.20	56.08	≤74	PASS
			Peak	5378.160	-37.48	≤-21.20	57.72	≤74	PASS
			Peak	5460.000	-39.94	≤-21.20	55.26	≤74	PASS
11N20 SISO	Ant1	5180	AV	4500.000	-48.83	≤-41.20	46.37	≤54	PASS
			AV	4891.300	-46.66	≤-41.20	48.54	≤54	PASS
			AV	5150.000	-46.86	≤-41.20	48.34	≤54	PASS
			Peak	4500.000	-41	≤-21.20	54.20	≤74	PASS
			Peak	4992.100	-36.83	≤-21.20	58.37	≤74	PASS
			Peak	5150.000	-40.29	≤-21.20	54.91	≤74	PASS
		5240	AV	5350.000	-47.21	≤-41.20	47.99	≤54	PASS
			AV	5354.640	-46.94	≤-41.20	48.26	≤54	PASS
			AV	5460.000	-47.42	≤-41.20	47.78	≤54	PASS
			Peak	5350.000	-39.44	≤-21.20	55.76	≤74	PASS
			Peak	5372.400	-37.5	≤-21.20	57.70	≤74	PASS
			Peak	5460.000	-39.11	≤-21.20	56.09	≤74	PASS
11N40 SISO	Ant1	5190	AV	4500.000	-48.45	≤-41.20	46.75	≤54	PASS
			AV	5149.600	-45.73	≤-41.20	49.47	≤54	PASS
			AV	5150.000	-45.53	≤-41.20	49.67	≤54	PASS
			Peak	4500.000	-40.91	≤-21.20	54.29	≤74	PASS
			Peak	4949.400	-36.92	≤-21.20	58.28	≤74	PASS
			Peak	5150.000	-39.02	≤-21.20	56.18	≤74	PASS
		5230	AV	5350.000	-47.05	≤-41.20	48.15	≤54	PASS
			AV	5354.440	-46.52	≤-41.20	48.68	≤54	PASS
			AV	5460.000	-47.26	≤-41.20	47.94	≤54	PASS
			Peak	5350.000	-40.52	≤-21.20	54.68	≤74	PASS
			Peak	5396.040	-37.7	≤-21.20	57.50	≤74	PASS
			Peak	5460.000	-40.84	≤-21.20	54.36	≤74	PASS
11AC20 SISO	Ant1	5180	AV	4500.000	-48.9	≤-41.20	46.30	≤54	PASS
			AV	4901.800	-46.7	≤-41.20	48.50	≤54	PASS
			AV	5150.000	-46.9	≤-41.20	48.30	≤54	PASS
			Peak	4500.000	-41.61	≤-21.20	53.59	≤74	PASS



		5240	Peak	4775.100	-35.86	≤-21.20	59.34	≤74	PASS
			Peak	5150.000	-38.61	≤-21.20	56.59	≤74	PASS
			AV	5350.000	-47.24	≤-41.20	47.96	≤54	PASS
			AV	5352.240	-46.99	≤-41.20	48.21	≤54	PASS
			AV	5460.000	-47.54	≤-41.20	47.66	≤54	PASS
			Peak	5350.000	-40.69	≤-21.20	54.51	≤74	PASS
			Peak	5387.040	-37.41	≤-21.20	57.79	≤74	PASS
			Peak	5460.000	-41.08	≤-21.20	54.12	≤74	PASS
11AC40 SISO	Ant1	5190	AV	4500.000	-48.34	≤-41.20	46.86	≤54	PASS
			AV	5149.600	-45.71	≤-41.20	49.49	≤54	PASS
			AV	5150.000	-45.71	≤-41.20	49.49	≤54	PASS
			Peak	4500.000	-41.71	≤-21.20	53.49	≤74	PASS
			Peak	4780.700	-37.02	≤-21.20	58.18	≤74	PASS
			Peak	5150.000	-38.4	≤-21.20	56.80	≤74	PASS
		5230	AV	5350.000	-47.08	≤-41.20	48.12	≤54	PASS
			AV	5354.440	-46.69	≤-41.20	48.51	≤54	PASS
			AV	5460.000	-47.37	≤-41.20	47.83	≤54	PASS
			Peak	5350.000	-40.25	≤-21.20	54.95	≤74	PASS
			Peak	5359.380	-36.7	≤-21.20	58.50	≤74	PASS
			Peak	5460.000	-39.99	≤-21.20	55.21	≤74	PASS
11AC80 SISO	Ant1	5210	AV	4500.000	-48.06	≤-41.20	47.17	≤54	PASS
			AV	5148.750	-44.72	≤-41.20	50.51	≤54	PASS
			AV	5150.000	-44.66	≤-41.20	50.57	≤54	PASS
			Peak	4500.000	-40.68	≤-21.20	54.52	≤74	PASS
			Peak	5135.250	-34.39	≤-21.20	60.81	≤74	PASS
			Peak	5150.000	-37.05	≤-21.20	58.15	≤74	PASS
		5210	AV	5350.000	-46.63	≤-41.20	48.57	≤54	PASS
			AV	5367.880	-46.32	≤-41.20	48.88	≤54	PASS
			AV	5460.000	-46.85	≤-41.20	48.35	≤54	PASS
			Peak	5350.000	-39.76	≤-21.20	55.44	≤74	PASS
			Peak	5356.120	-38.12	≤-21.20	57.08	≤74	PASS
			Peak	5460.000	-40.86	≤-21.20	54.34	≤74	PASS

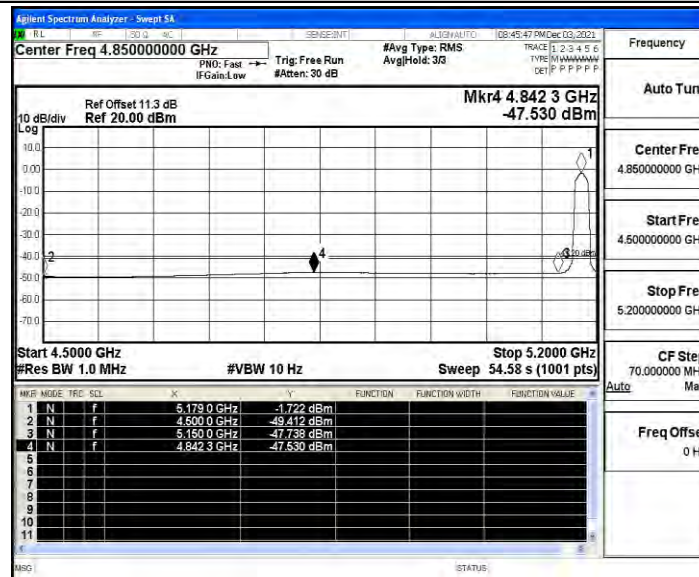
Note:

- The Antenna Gain is compensated in the graph.
- 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.

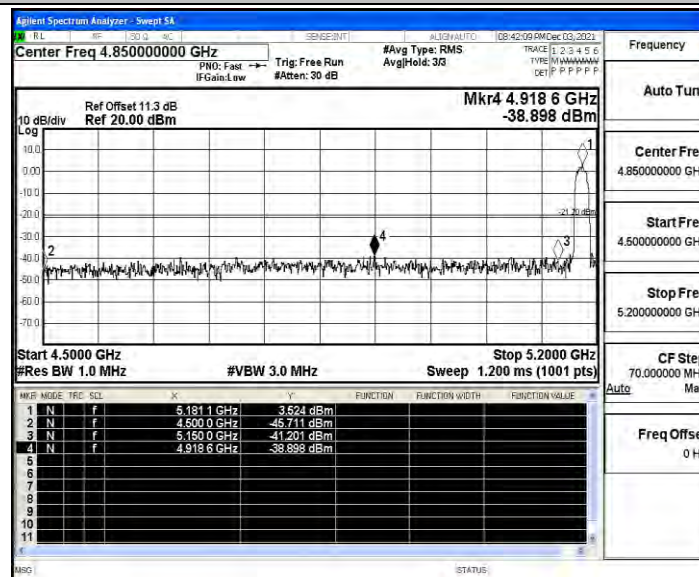


Test Graphs

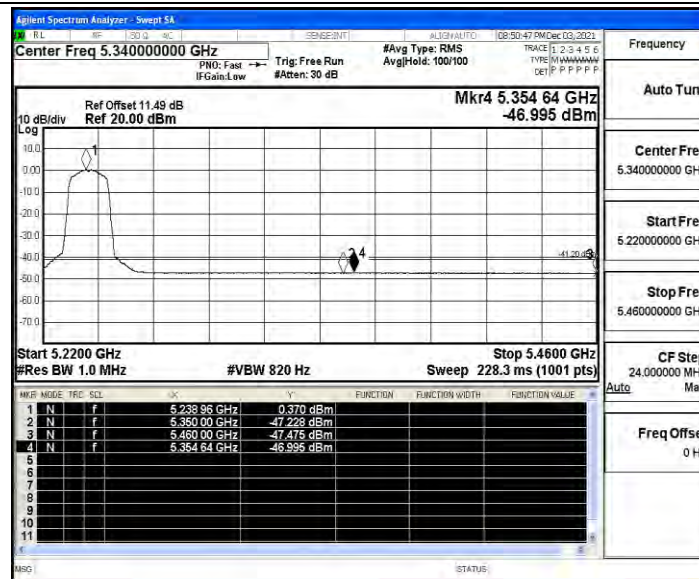
11A_Ant1_Low_5180_AV



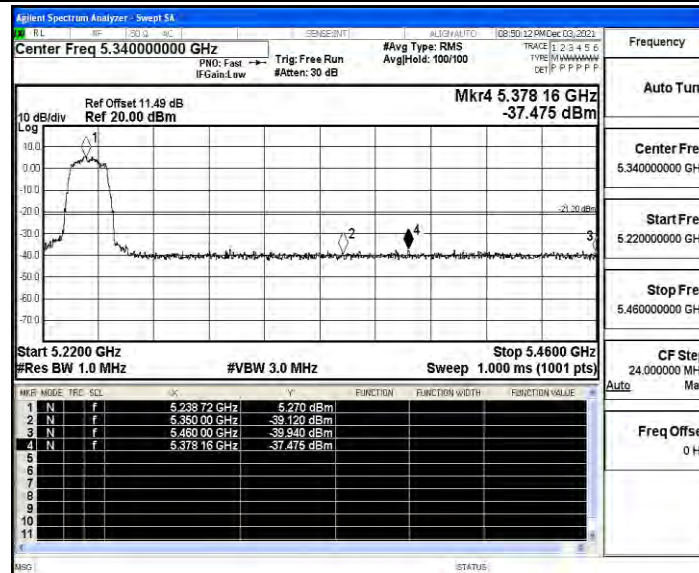
11A_Ant1_Low_5180_Peak



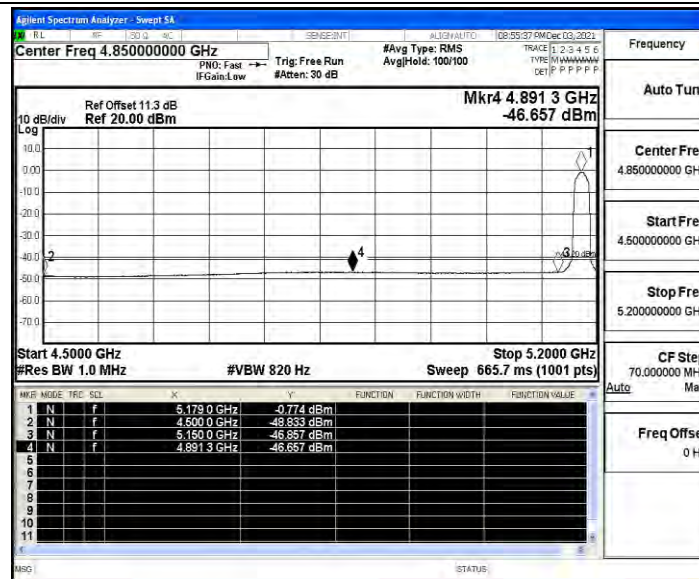
11A_Ant1_High_5240_AV



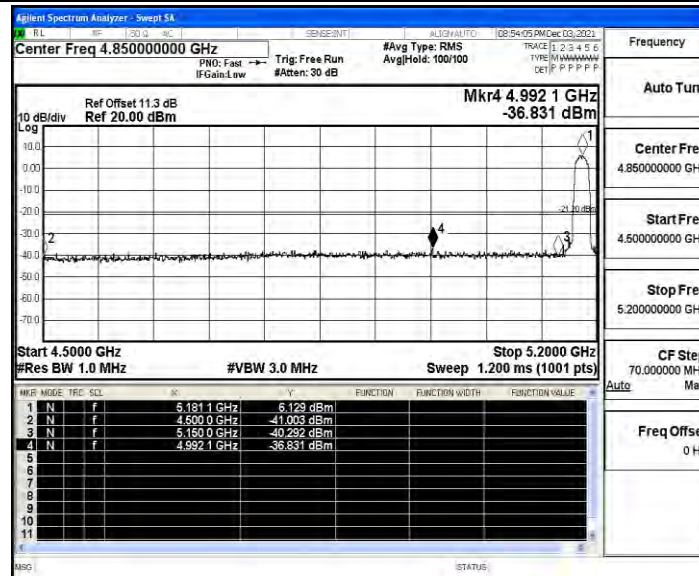
11A_Ant1_High_5240_Peak



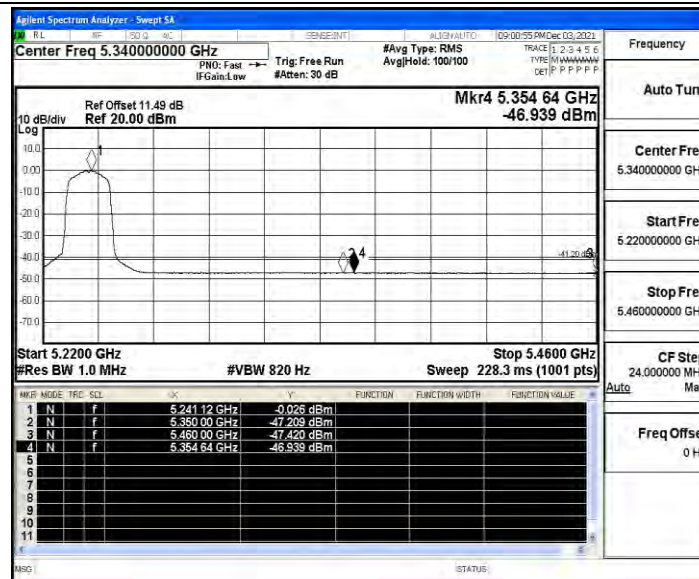
11N20SISO_Ant1_Low_5180_AV



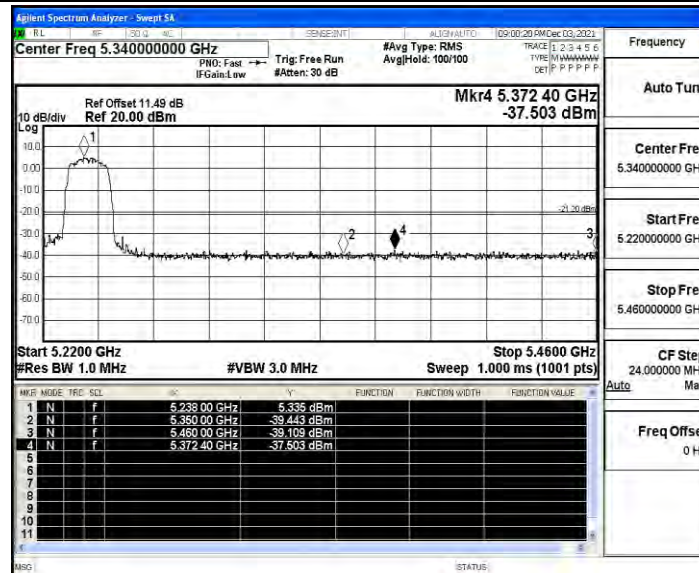
11N20SISO_Ant1_Low_5180_Peak



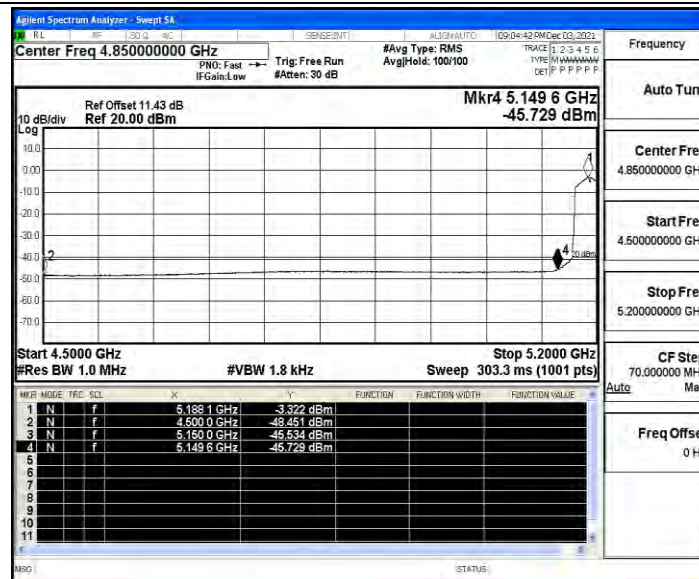
11N20SISO_Ant1_High_5240_AV



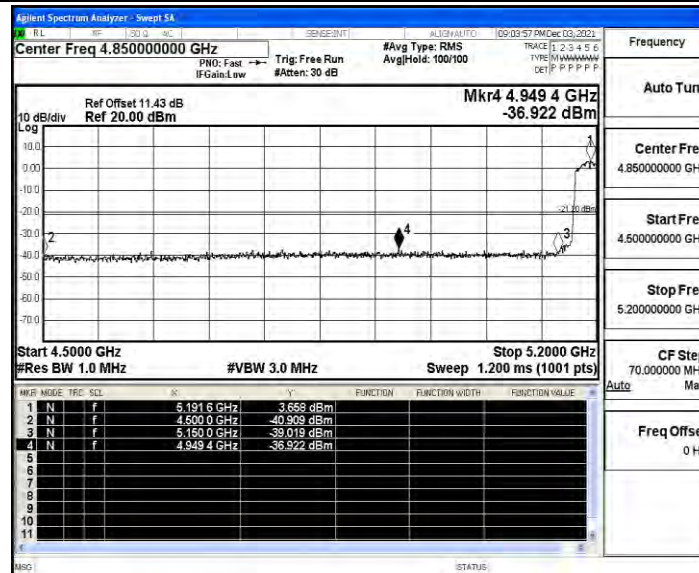
11N20SISO_Ant1_High_5240_Peak



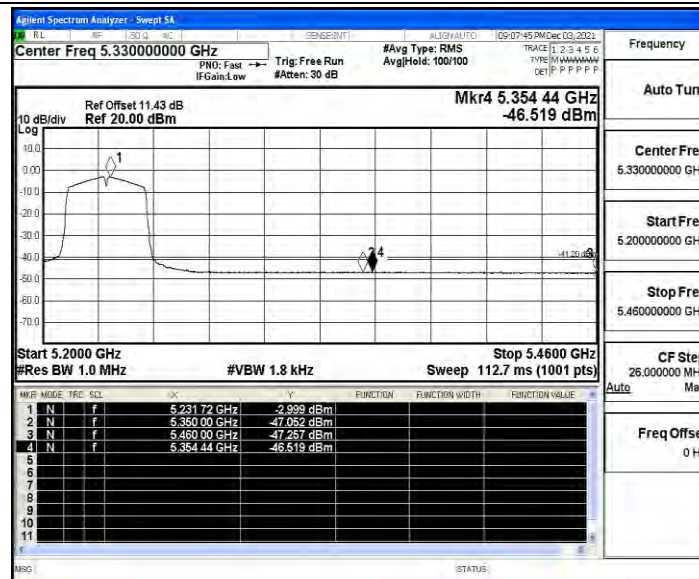
11N40SISO_Ant1_Low_5190_AV



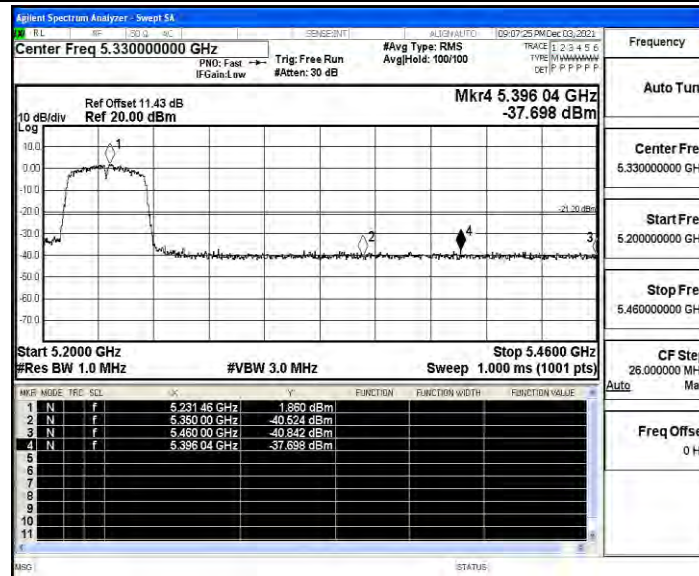
11N40SISO_Ant1_Low_5190_Peak



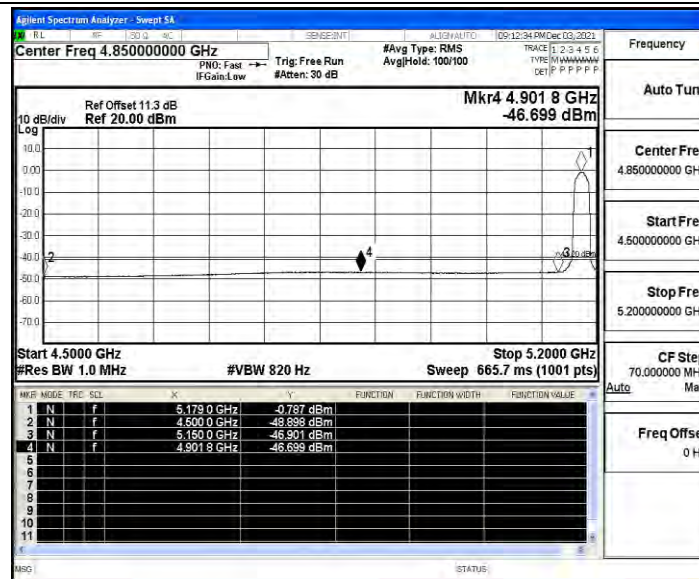
11N40SISO_Ant1_High_5230_AV



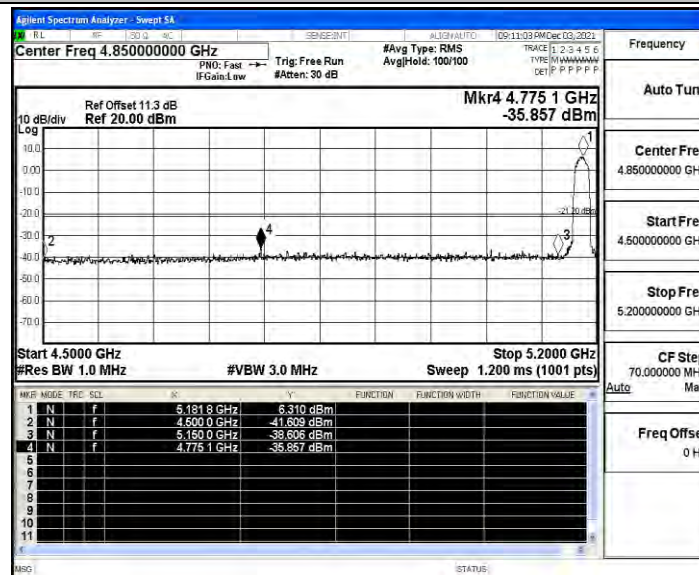
11N40SISO_Ant1_High_5230_Peak



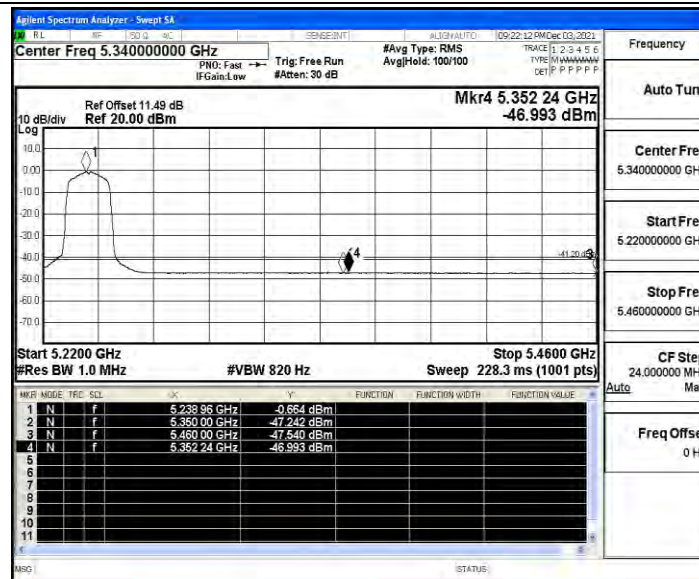
11AC20SISO_Ant1_Low_5180_AV



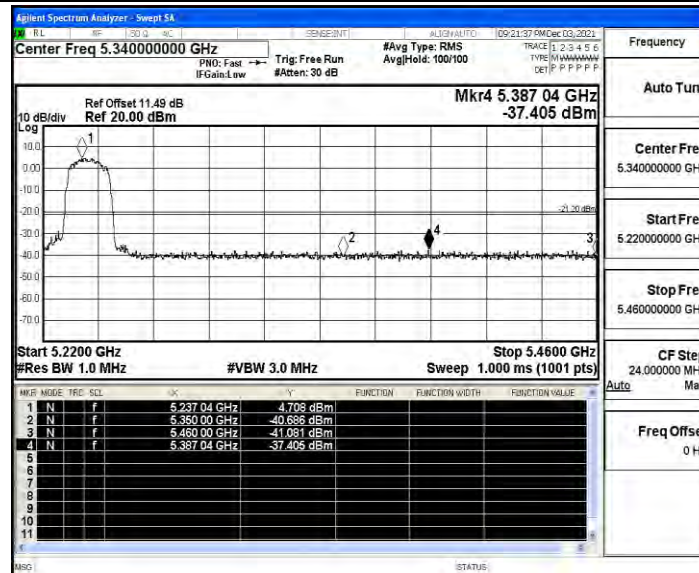
11AC20SISO_Ant1_Low_5180_Peak



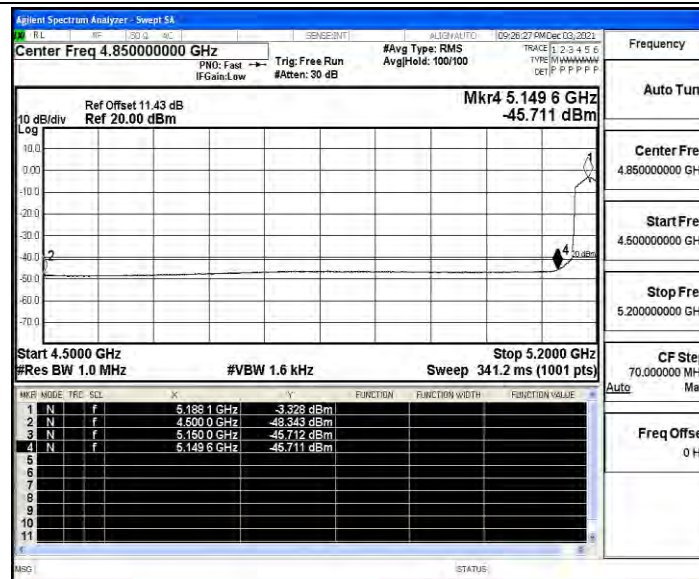
11AC20SISO_Ant1_High_5240_AV



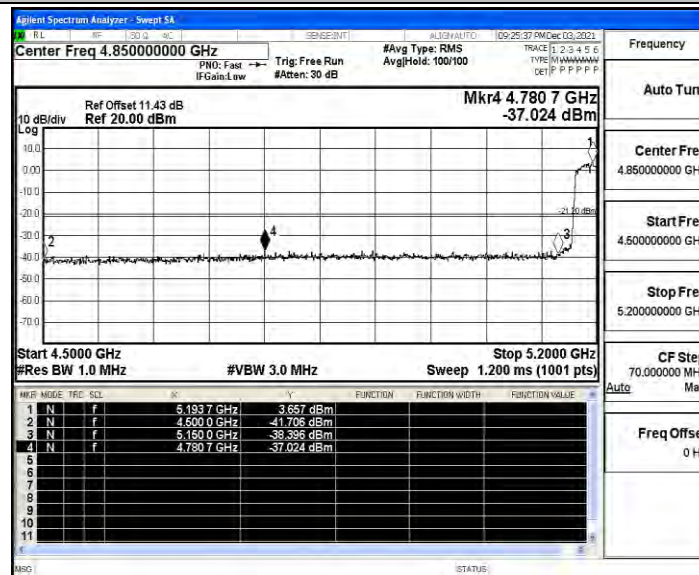
11AC20SISO_Ant1_High_5240_Peak



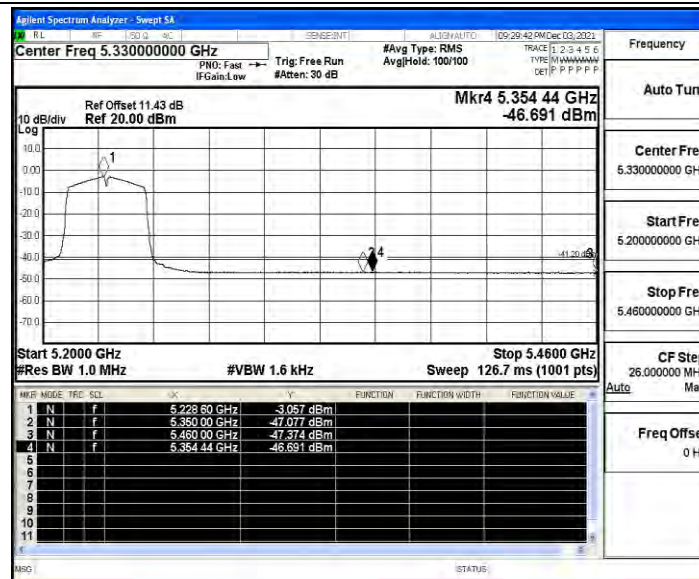
11AC40SISO_Ant1_Low_5190_AV



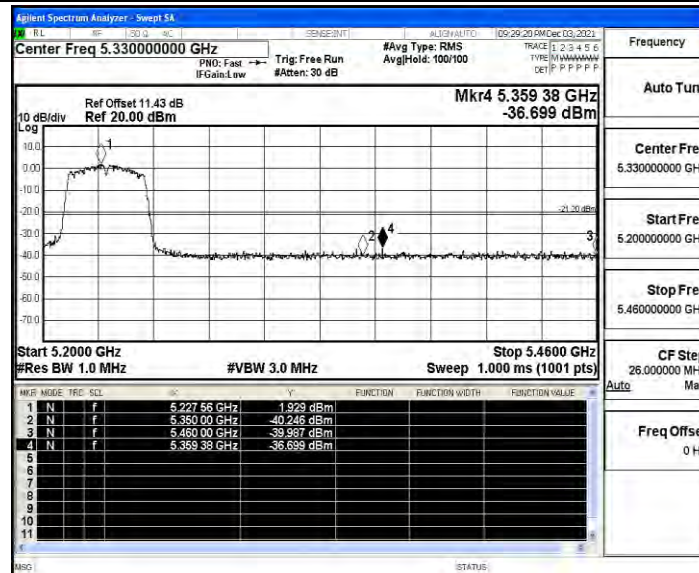
11AC40SISO_Ant1_Low_5190_Peak



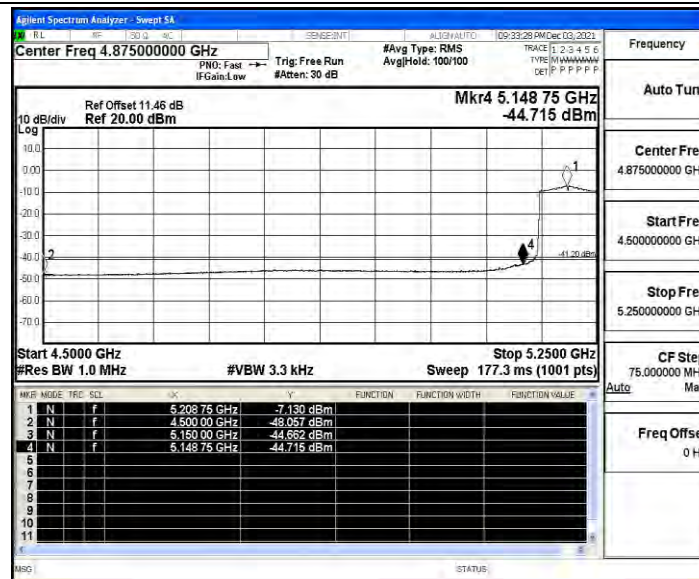
11AC40SISO_Ant1_High_5230_AV



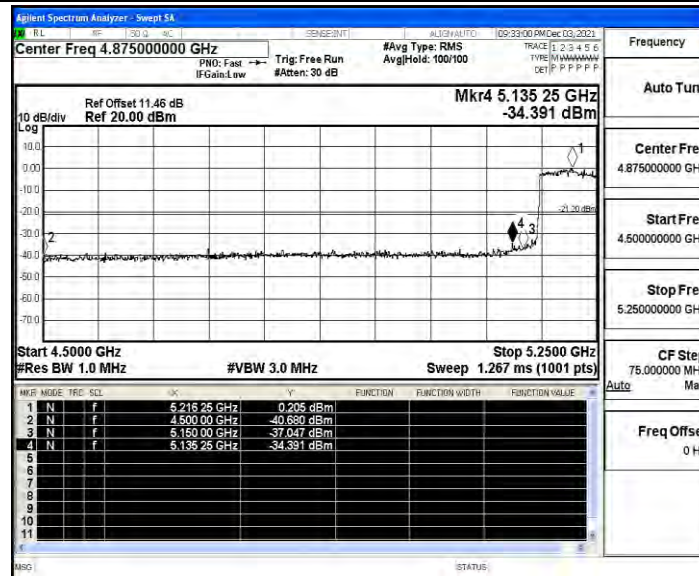
11AC40SISO_Ant1_High_5230_Peak



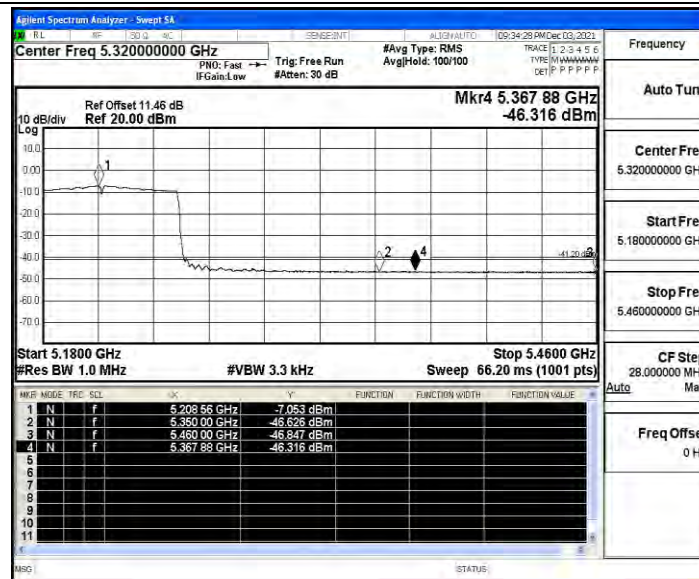
11AC80SISO_Ant1_Low_5210_AV



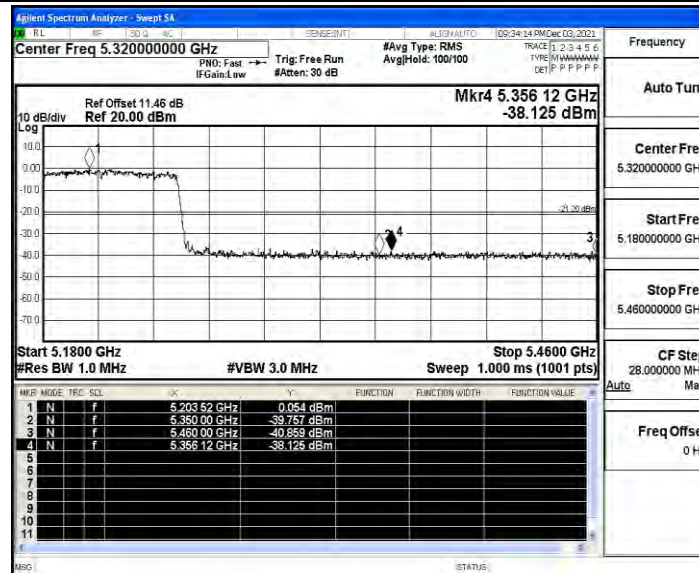
11AC80SISO_Ant1_Low_5210_Peak



11AC80SISO_Ant1_High_5210_AV



11AC80SISO_Ant1_High_5210_Peak





MIMO

Test Mode	Channel	Detector	Freq. [MHz]	Ant0 [dBm]	Ant1 [dBm]	MIMO [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11N20	5180	AV	4500.000	-48.04	-48.83	-45.41	49.82	≤54	PASS
		AV	4854.900	-45.38	-46.66	-42.96	52.27	≤54	PASS
		AV	5150.000	-46.02	-46.86	-43.41	51.82	≤54	PASS
		Peak	4500.000	-43.35	-41	-39.01	56.22	≤74	PASS
		Peak	4893.400	-38.52	-36.83	-34.58	60.65	≤74	PASS
		Peak	5150.000	-40.14	-40.29	-37.20	58.03	≤74	PASS
	5240	AV	5350.000	-46.29	-47.21	-43.72	51.51	≤54	PASS
		AV	5414.880	-45.58	-46.94	-43.20	52.03	≤54	PASS
		AV	5460.000	-47.01	-47.42	-44.20	51.03	≤54	PASS
		Peak	5350.000	-39.82	-39.44	-36.62	58.61	≤74	PASS
		Peak	5406.960	-39.41	-37.5	-35.34	59.89	≤74	PASS
		Peak	5460.000	-43.59	-39.11	-37.79	57.44	≤74	PASS
11N40	5190	AV	4500.000	-49.08	-48.45	-45.74	49.49	≤54	PASS
		AV	5149.600	-45.01	-45.73	-42.34	52.89	≤54	PASS
		AV	5150.000	-44.86	-45.53	-42.17	53.06	≤54	PASS
		Peak	4500.000	-42.9	-40.91	-38.78	56.45	≤74	PASS
		Peak	5143.300	-36.83	-36.92	-33.86	61.37	≤74	PASS
		Peak	5150.000	-38.65	-39.02	-35.82	59.41	≤74	PASS
	5230	AV	5350.000	-47.47	-47.05	-44.24	50.99	≤54	PASS
		AV	5411.640	-47	-46.52	-43.74	51.49	≤54	PASS
		AV	5460.000	-47.45	-47.26	-44.34	50.89	≤54	PASS
		Peak	5350.000	-40.91	-40.52	-37.70	57.53	≤74	PASS
		Peak	5357.040	-37.89	-37.7	-34.78	60.45	≤74	PASS
		Peak	5460.000	-41.24	-40.84	-38.03	57.20	≤74	PASS
11AC20	5180	AV	4500.000	-48.62	-48.9	-45.75	49.48	≤54	PASS
		AV	4831.800	-45.19	-46.7	-42.87	52.36	≤54	PASS
		AV	5150.000	-45.9	-46.9	-43.36	51.87	≤54	PASS
		Peak	4500.000	-44.03	-41.61	-39.64	55.59	≤74	PASS
		Peak	4819.200	-38.26	-35.86	-33.89	61.34	≤74	PASS
		Peak	5150.000	-43.21	-38.61	-37.32	57.91	≤74	PASS
	5240	AV	5350.000	-46.76	-47.24	-43.98	51.25	≤54	PASS
		AV	5362.800	-45.31	-46.99	-43.06	52.17	≤54	PASS
		AV	5460.000	-47.14	-47.54	-44.33	50.90	≤54	PASS
		Peak	5350.000	-42.23	-40.69	-38.38	56.85	≤74	PASS
		Peak	5419.680	-38.83	-37.41	-35.05	60.18	≤74	PASS
		Peak	5460.000	-42.94	-41.08	-38.90	56.33	≤74	PASS
11AC40	5190	AV	4500.000	-49.09	-48.34	-45.69	49.54	≤54	PASS
		AV	5149.600	-45.14	-45.71	-42.41	52.82	≤54	PASS
		AV	5150.000	-45.16	-45.71	-42.42	52.81	≤54	PASS



		Peak	4500.000	-41.8	-41.71	-38.74	56.49	≤74	PASS
		Peak	4838.800	-36.74	-37.02	-33.87	61.36	≤74	PASS
		Peak	5150.000	-38.28	-38.4	-35.33	59.90	≤74	PASS
	5230	AV	5350.000	-47.43	-47.08	-44.24	50.99	≤54	PASS
		AV	5357.300	-47.19	-46.69	-43.92	51.31	≤54	PASS
		AV	5460.000	-47.5	-47.37	-44.42	50.81	≤54	PASS
		Peak	5350.000	-41.06	-40.25	-37.63	57.60	≤74	PASS
		Peak	5457.400	-37.9	-36.7	-34.25	60.98	≤74	PASS
		Peak	5460.000	-40.5	-39.99	-37.23	58.00	≤74	PASS
11AC80	5210	AV	4500.000	-47.16	-48.06	-44.58	50.65	≤54	PASS
		AV	4565.250	-45.63	-44.72	-42.14	53.09	≤54	PASS
		AV	5150.000	-46.4	-44.66	-42.43	52.80	≤54	PASS
		Peak	4500.000	-40.14	-40.68	-37.39	57.84	≤74	PASS
		Peak	4647.000	-34.73	-34.39	-31.55	63.68	≤74	PASS
		Peak	5150.000	-34.83	-37.05	-32.79	62.44	≤74	PASS
	5210	AV	5350.000	-47.1	-46.63	-43.85	51.38	≤54	PASS
		AV	5351.640	-46.74	-46.32	-43.51	51.72	≤54	PASS
		AV	5460.000	-47.03	-46.85	-43.93	51.30	≤54	PASS
		Peak	5350.000	-40.67	-39.76	-37.18	58.05	≤74	PASS
		Peak	5389.720	-38.04	-38.12	-35.07	60.16	≤74	PASS
		Peak	5460.000	-40.55	-40.86	-37.69	57.54	≤74	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.



D.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant0	5180	NV	NT	-32000	-6.177606	20	PASS
			LV	NT	-32000	-6.177606	20	PASS
			HV	NT	-32000	-6.177606	20	PASS
		5200	NV	NT	-17000	-3.269231	20	PASS
			LV	NT	-16000	-3.076923	20	PASS
			HV	NT	-17000	-3.269231	20	PASS
		5240	NV	NT	-26000	-4.961832	20	PASS
			LV	NT	-25000	-4.770992	20	PASS
			HV	NT	-25000	-4.770992	20	PASS
11AC40S ISO	Ant0	5190	NV	NT	-30000	-5.780347	20	PASS
			LV	NT	-29000	-5.587669	20	PASS
			HV	NT	-29000	-5.587669	20	PASS
		5230	NV	NT	-31000	-5.927342	20	PASS
			LV	NT	-30000	-5.736138	20	PASS
			HV	NT	-30000	-5.736138	20	PASS
11AC80S ISO	Ant0	5210	NV	NT	-33000	-6.333973	20	PASS
			LV	NT	-31000	-5.950096	20	PASS
			HV	NT	-31000	-5.950096	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant0	5180	NV	-30	-32000	-6.177606	20	PASS
			NV	-20	-32000	-6.177606	20	PASS
			NV	-10	-32000	-6.177606	20	PASS
			NV	0	-32000	-6.177606	20	PASS
			NV	10	-32000	-6.177606	20	PASS
			NV	20	-32000	-6.177606	20	PASS
			NV	30	-32000	-6.177606	20	PASS
			NV	40	-32000	-6.177606	20	PASS
			NV	50	-32000	-6.177606	20	PASS
		5200	NV	-30	-18000	-3.461538	20	PASS
			NV	-20	-18000	-3.461538	20	PASS
			NV	-10	-19000	-3.653846	20	PASS
			NV	0	-20000	-3.846154	20	PASS
			NV	10	-21000	-4.038462	20	PASS
			NV	20	-21000	-4.038462	20	PASS



			NV	20	-21000	-4.038462	20	PASS
			NV	30	-22000	-4.230769	20	PASS
			NV	40	-22000	-4.230769	20	PASS
			NV	50	-23000	-4.423077	20	PASS
		5240	NV	-30	-25000	-4.770992	20	PASS
			NV	-20	-26000	-4.961832	20	PASS
			NV	-10	-26000	-4.961832	20	PASS
			NV	0	-26000	-4.961832	20	PASS
			NV	10	-26000	-4.961832	20	PASS
			NV	20	-27000	-5.152672	20	PASS
			NV	30	-27000	-5.152672	20	PASS
			NV	40	-27000	-5.152672	20	PASS
			NV	50	-27000	-5.152672	20	PASS
11AC40S ISO	Ant0	5190	NV	-30	-28000	-5.39499	20	PASS
			NV	-20	-28000	-5.39499	20	PASS
			NV	-10	-29000	-5.587669	20	PASS
			NV	0	-29000	-5.587669	20	PASS
			NV	10	-29000	-5.587669	20	PASS
			NV	20	-29000	-5.587669	20	PASS
			NV	30	-29000	-5.587669	20	PASS
			NV	40	-29000	-5.587669	20	PASS
			NV	50	-29000	-5.587669	20	PASS
		5230	NV	-30	-30000	-5.736138	20	PASS
			NV	-20	-30000	-5.736138	20	PASS
			NV	-10	-30000	-5.736138	20	PASS
			NV	0	-30000	-5.736138	20	PASS
			NV	10	-30000	-5.736138	20	PASS
			NV	20	-30000	-5.736138	20	PASS
			NV	30	-30000	-5.736138	20	PASS
			NV	40	-30000	-5.736138	20	PASS
			NV	50	-31000	-5.927342	20	PASS
11AC80S ISO	Ant0	5210	NV	-30	-31000	-5.950096	20	PASS
			NV	-20	-31000	-5.950096	20	PASS
			NV	-10	-31000	-5.950096	20	PASS
			NV	0	-31000	-5.950096	20	PASS
			NV	10	-31000	-5.950096	20	PASS
			NV	20	-31000	-5.950096	20	PASS
			NV	30	-66000	-12.667946	20	PASS
			NV	40	-66000	-12.667946	20	PASS
			NV	50	-66000	-12.667946	20	PASS



Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant1	5180	NV	NT	-15000	-2.895753	20	PASS
			LV	NT	-15000	-2.895753	20	PASS
			HV	NT	-15000	-2.895753	20	PASS
		5200	NV	NT	-15000	-2.884615	20	PASS
			LV	NT	-16000	-3.076923	20	PASS
			HV	NT	-16000	-3.076923	20	PASS
		5240	NV	NT	-16000	-3.053435	20	PASS
			LV	NT	-16000	-3.053435	20	PASS
			HV	NT	-16000	-3.053435	20	PASS
11AC40S ISO	Ant1	5190	NV	NT	-16000	-3.082852	20	PASS
			LV	NT	-16000	-3.082852	20	PASS
			HV	NT	-16000	-3.082852	20	PASS
		5230	NV	NT	-16000	-3.059273	20	PASS
			LV	NT	-16000	-3.059273	20	PASS
			HV	NT	-16000	-3.059273	20	PASS
11AC80S ISO	Ant1	5210	NV	NT	-16000	-3.071017	20	PASS
			LV	NT	-16000	-3.071017	20	PASS
			HV	NT	-16000	-3.071017	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant1	5180	NV	-30	-15000	-2.895753	20	PASS
			NV	-20	-15000	-2.895753	20	PASS
			NV	-10	-16000	-3.088803	20	PASS
			NV	0	-16000	-3.088803	20	PASS
			NV	10	-16000	-3.088803	20	PASS
			NV	20	-15000	-2.895753	20	PASS
			NV	30	-16000	-3.088803	20	PASS
			NV	40	-16000	-3.088803	20	PASS
		5200	NV	50	-16000	-3.088803	20	PASS
			NV	-30	-16000	-3.076923	20	PASS
			NV	-20	-16000	-3.076923	20	PASS
			NV	-10	-16000	-3.076923	20	PASS
			NV	0	-16000	-3.076923	20	PASS
			NV	10	-16000	-3.076923	20	PASS
			NV	20	-16000	-3.076923	20	PASS
			NV	30	-16000	-3.076923	20	PASS
			NV	40	-16000	-3.076923	20	PASS



		5240	NV	50	-16000	-3.076923	20	PASS
			NV	-30	-16000	-3.053435	20	PASS
			NV	-20	-16000	-3.053435	20	PASS
			NV	-10	-16000	-3.053435	20	PASS
			NV	0	-16000	-3.053435	20	PASS
			NV	10	-16000	-3.053435	20	PASS
			NV	20	-16000	-3.053435	20	PASS
			NV	30	-16000	-3.053435	20	PASS
			NV	40	-16000	-3.053435	20	PASS
			NV	50	-16000	-3.053435	20	PASS
11AC40S ISO	Ant1	5190	NV	-30	-16000	-3.082852	20	PASS
			NV	-20	-16000	-3.082852	20	PASS
			NV	-10	-16000	-3.082852	20	PASS
			NV	0	-16000	-3.082852	20	PASS
			NV	10	-16000	-3.082852	20	PASS
			NV	20	-16000	-3.082852	20	PASS
			NV	30	-16000	-3.082852	20	PASS
			NV	40	-16000	-3.082852	20	PASS
			NV	50	-16000	-3.082852	20	PASS
		5230	NV	-30	-16000	-3.059273	20	PASS
			NV	-20	-16000	-3.059273	20	PASS
			NV	-10	-16000	-3.059273	20	PASS
			NV	0	-16000	-3.059273	20	PASS
			NV	10	-16000	-3.059273	20	PASS
			NV	20	-16000	-3.059273	20	PASS
			NV	30	-16000	-3.059273	20	PASS
			NV	40	-16000	-3.059273	20	PASS
			NV	50	-16000	-3.059273	20	PASS
11AC80S ISO	Ant1	5210	NV	-30	-16000	-3.071017	20	PASS
			NV	-20	-16000	-3.071017	20	PASS
			NV	-10	-16000	-3.071017	20	PASS
			NV	0	-16000	-3.071017	20	PASS
			NV	10	-16000	-3.071017	20	PASS
			NV	20	-16000	-3.071017	20	PASS
			NV	30	-16000	-3.071017	20	PASS
			NV	40	-16000	-3.071017	20	PASS
			NV	50	-16000	-3.071017	20	PASS



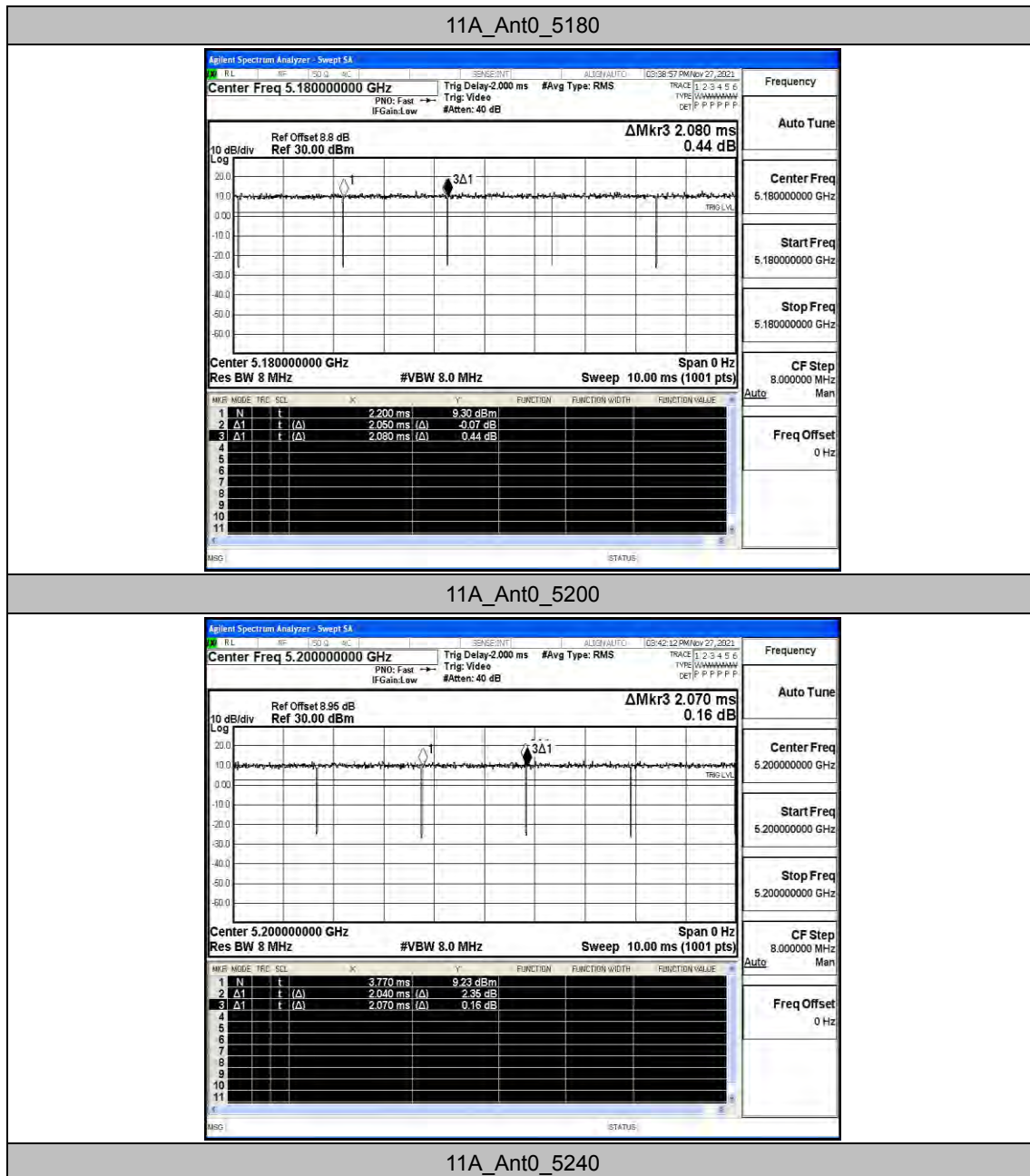
D.6 Duty Cycle

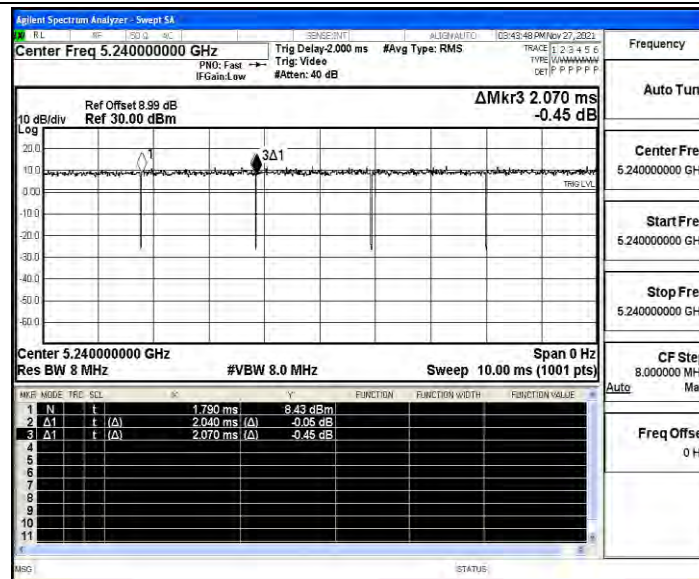
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant0	5180	2.05	2.08	98.56	---	PASS
		5200	2.04	2.07	98.55	---	PASS
		5240	2.04	2.07	98.55	---	PASS
11N20SISO	Ant0	5180	1.90	1.93	98.45	---	PASS
		5200	1.90	1.93	98.45	---	PASS
		5240	1.91	1.94	98.45	---	PASS
11N40SISO	Ant0	5190	0.93	0.96	96.88	---	PASS
		5230	0.93	0.96	96.88	---	PASS
11AC20SISO	Ant0	5180	1.91	1.94	98.45	---	PASS
		5200	1.91	1.94	98.45	---	PASS
		5240	1.91	1.94	98.45	---	PASS
11AC40SISO	Ant0	5190	0.94	0.97	96.91	---	PASS
		5230	0.94	0.97	96.91	---	PASS
11AC80SISO	Ant0	5210	0.43	0.46	93.48	---	PASS

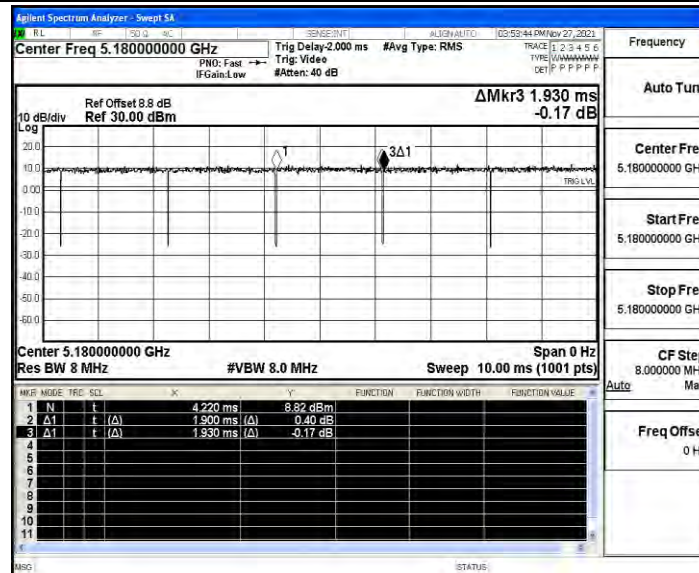


Test Graphs

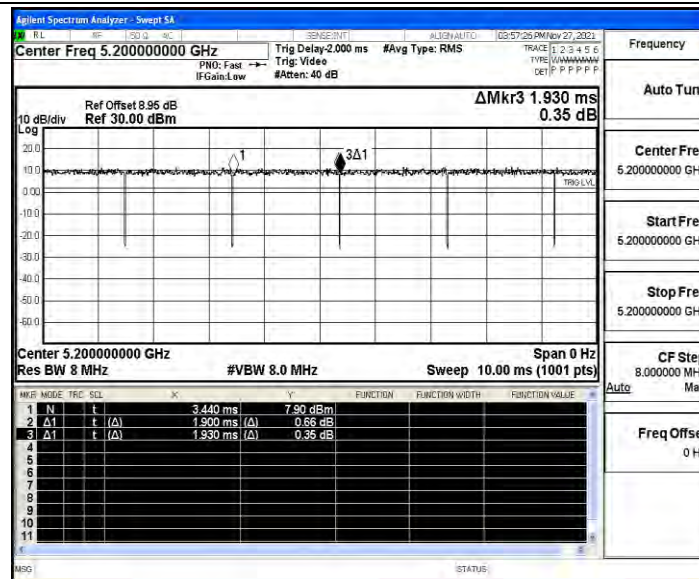




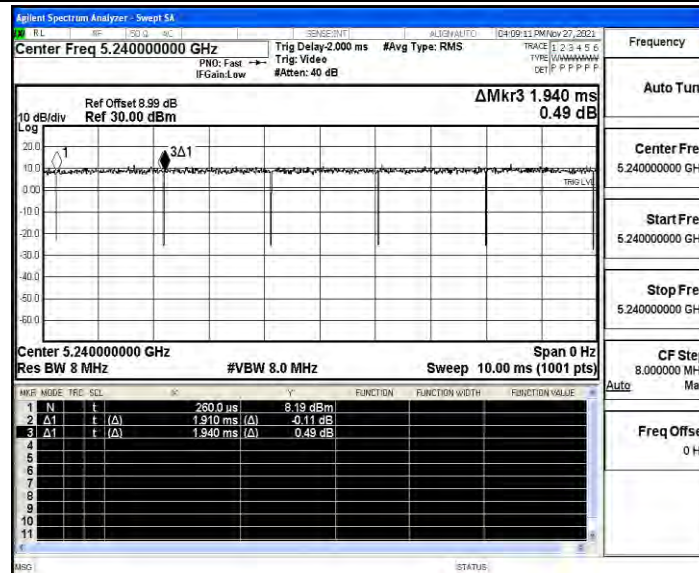
11N20SISO_Ant0_5180



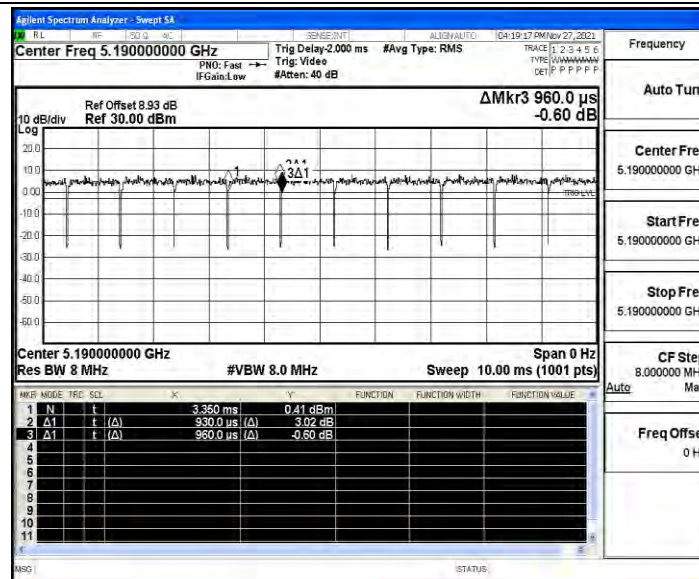
11N20SISO_Ant0_5200



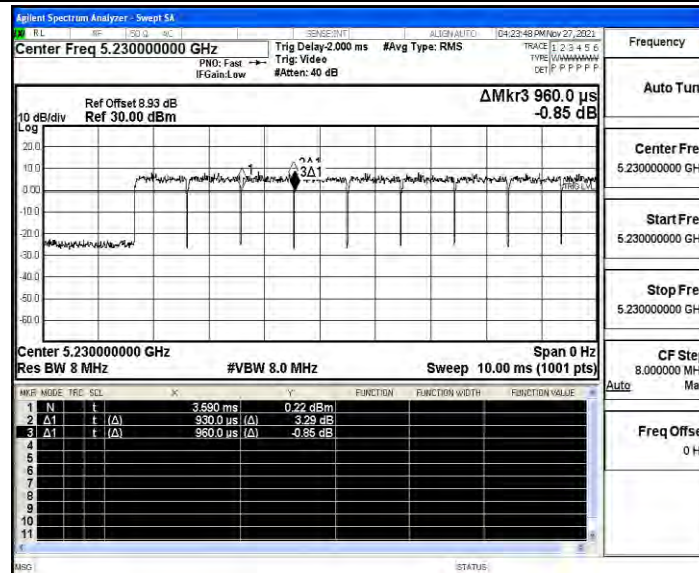
11N20SISO_Ant0_5240



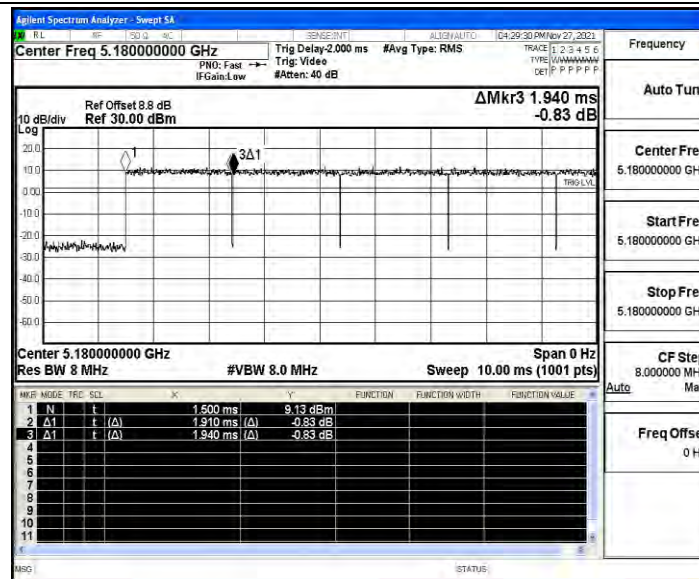
11N40SISO_Ant0_5190



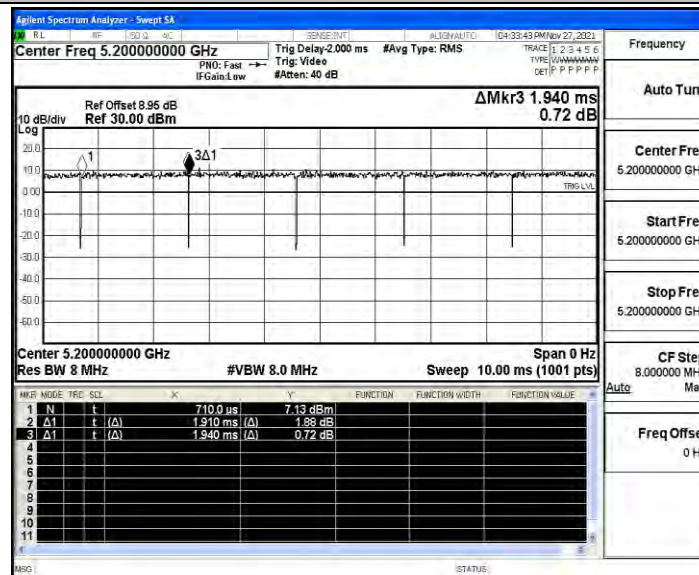
11N40SISO_Ant0_5230



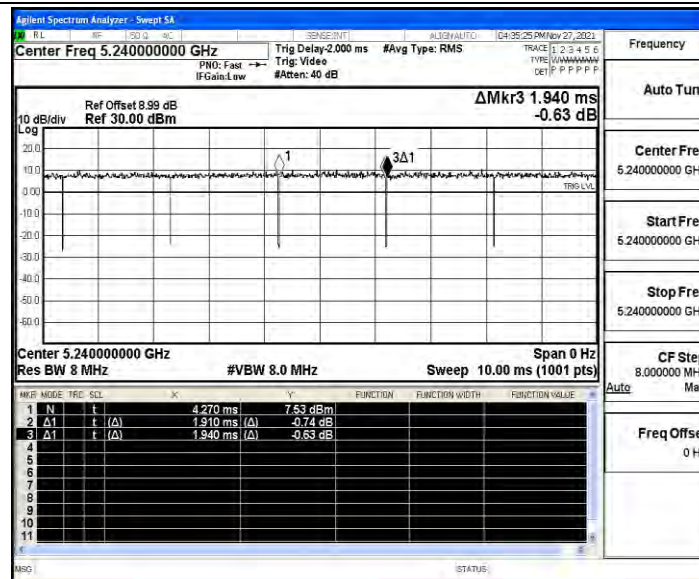
11AC20SISO_Ant0_5180



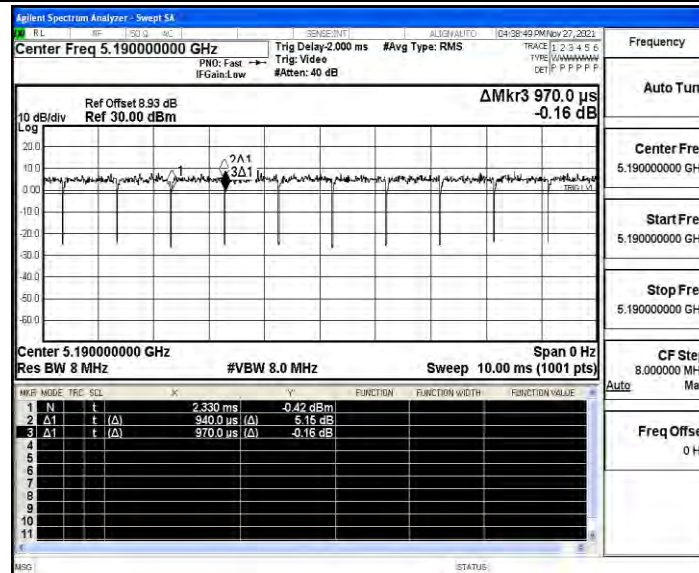
11AC20SISO_Ant0_5200



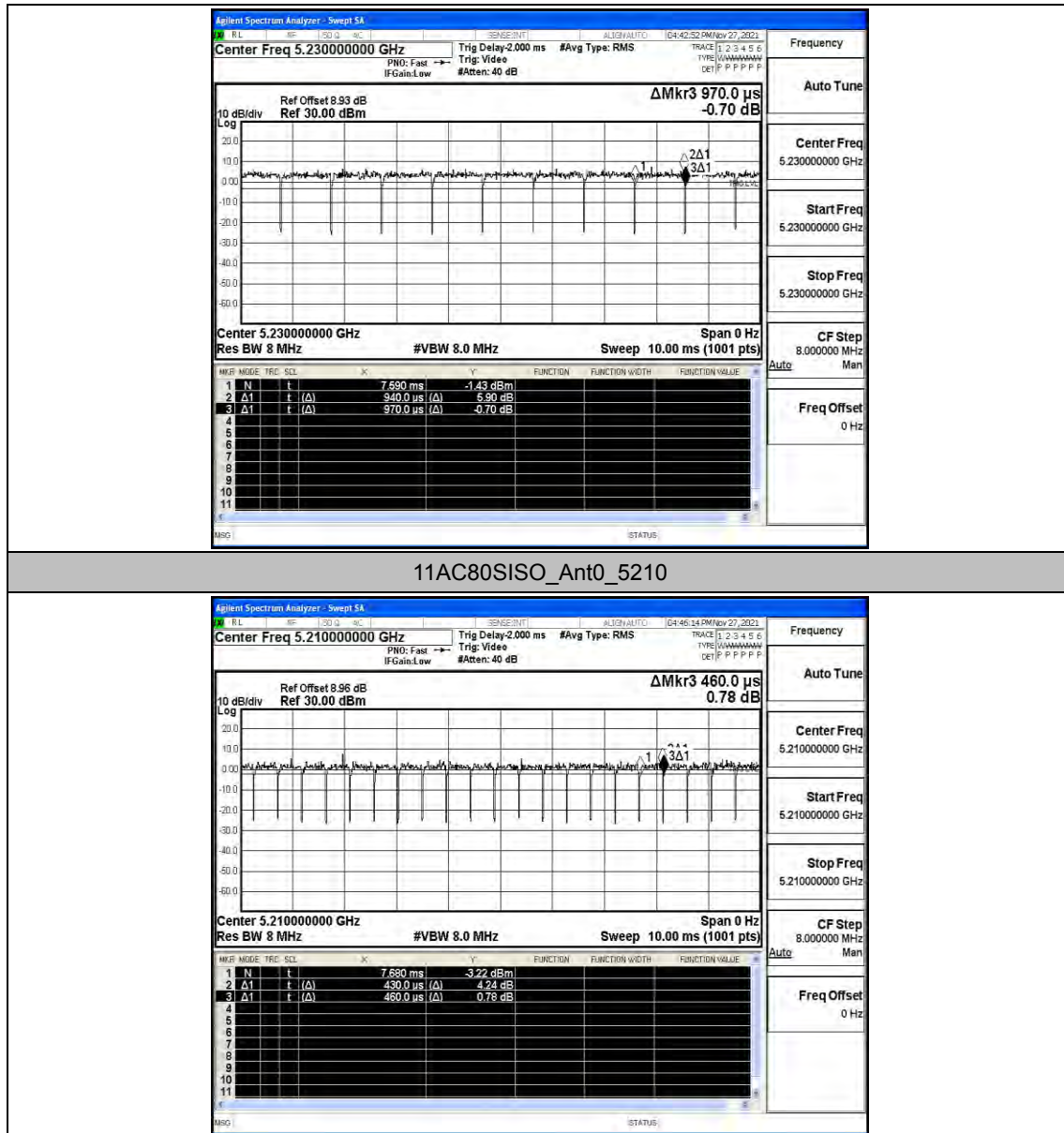
11AC20SISO_Ant0_5240



11AC40SISO_Ant0_5190



11AC40SISO_Ant0_5230

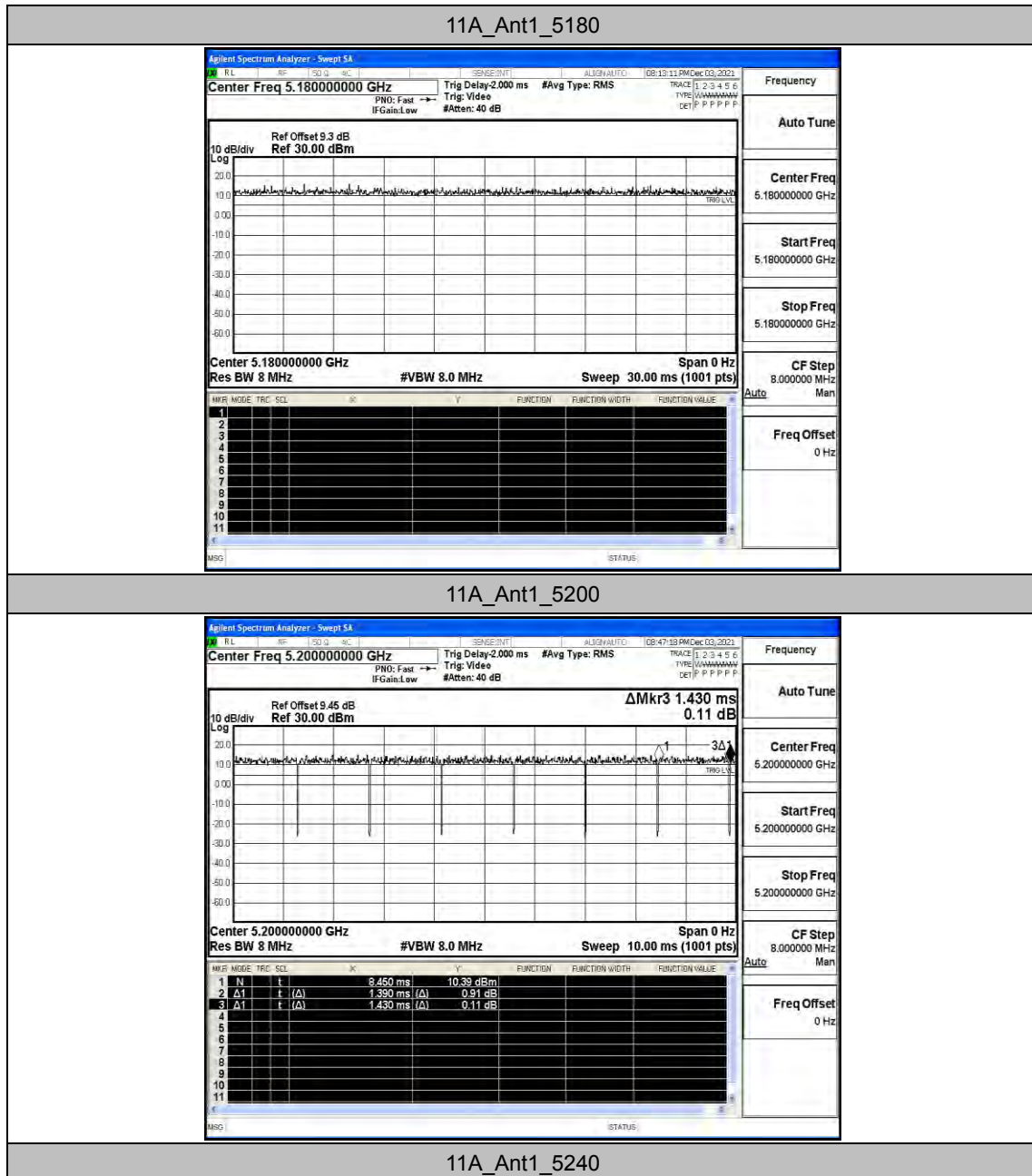


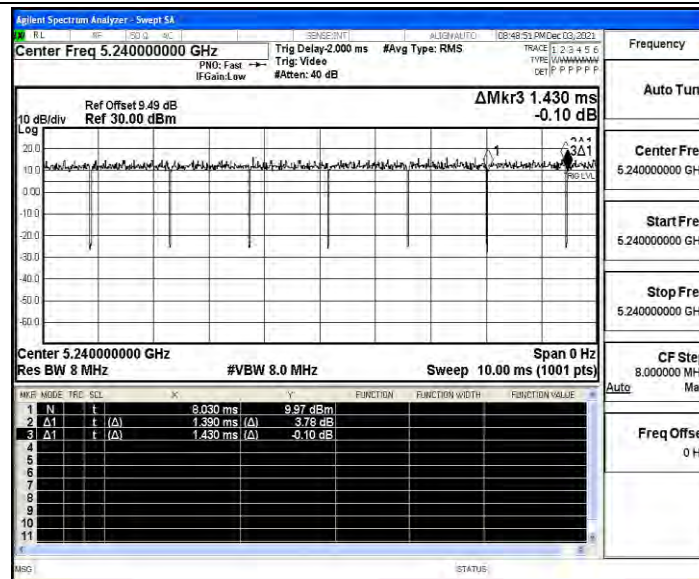
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	30.00	30.00	100.00	---	PASS
		5200	1.39	1.43	97.20	---	PASS
		5240	1.39	1.43	97.20	---	PASS
11N20SISO	Ant1	5180	1.30	1.34	97.01	---	PASS
		5200	1.30	1.34	97.01	---	PASS
		5240	1.30	1.34	97.01	---	PASS
11N40SISO	Ant1	5190	0.64	0.68	94.12	---	PASS
		5230	0.64	0.68	94.12	---	PASS
11AC20SISO	Ant1	5180	1.31	1.35	97.04	---	PASS
		5200	1.31	1.35	97.04	---	PASS
		5240	1.31	1.35	97.04	---	PASS



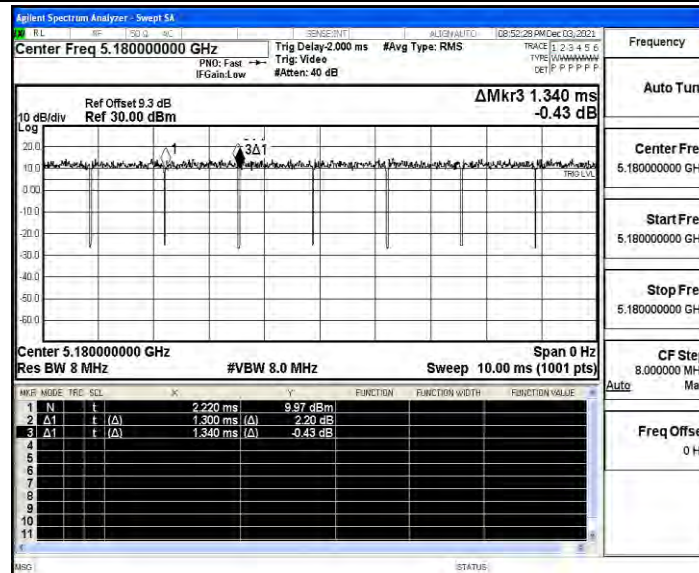
11AC40SISO	Ant1	5190	0.65	0.69	94.20	---	PASS
		5230	0.65	0.69	94.20	---	PASS
11AC80SISO	Ant1	5210	0.32	0.36	88.89	---	PASS

Test Graphs

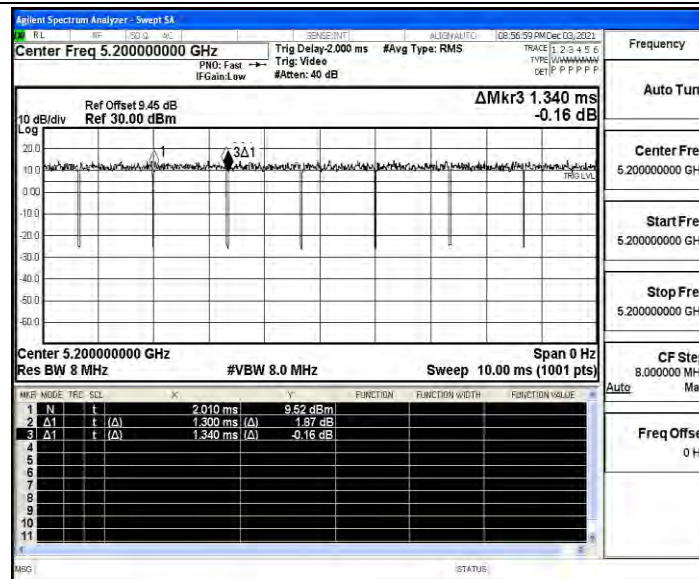




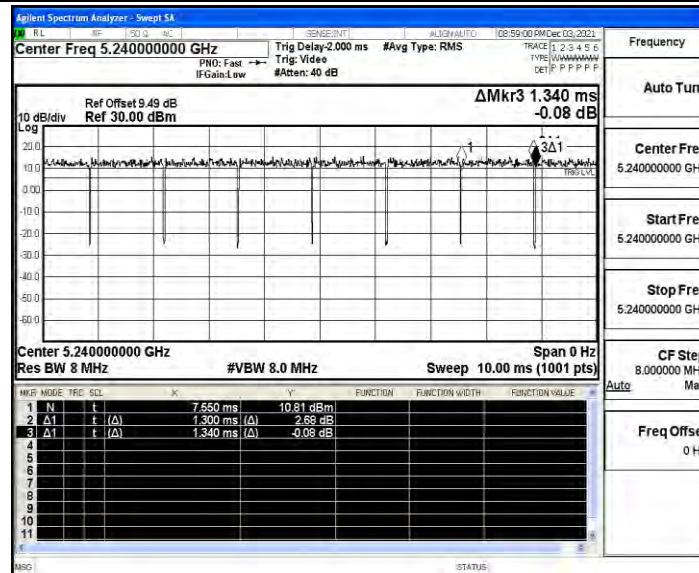
11N20SISO_Ant1_5180



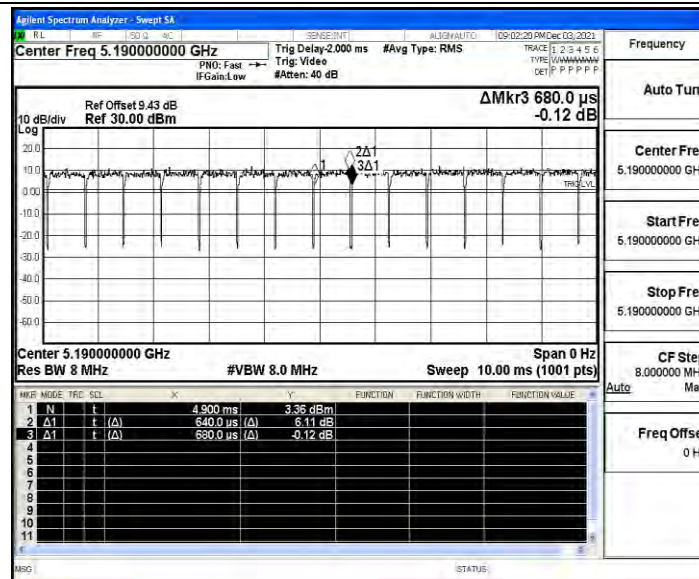
11N20SISO_Ant1_5200



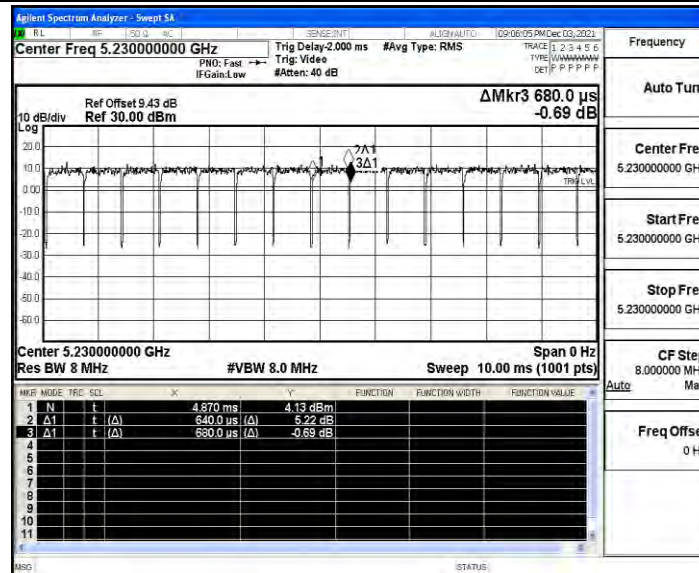
11N20SISO_Ant1_5240



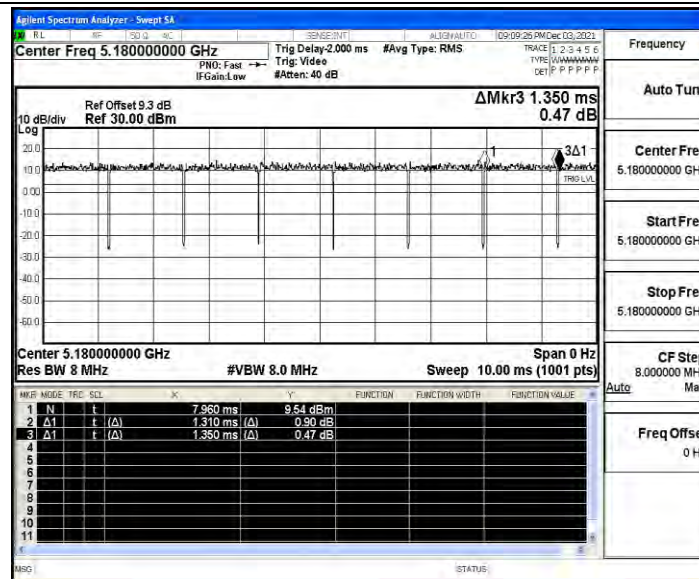
11N40SISO_Ant1_5190



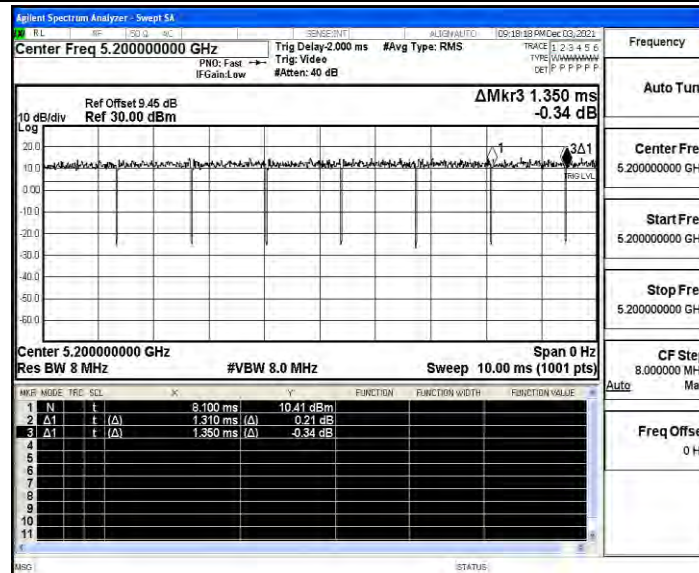
11N40SISO_Ant1_5230



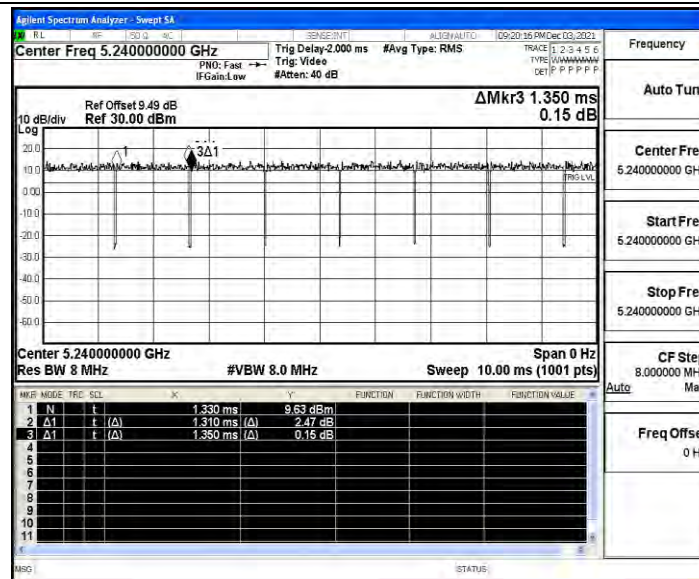
11AC20SISO_Ant1_5180



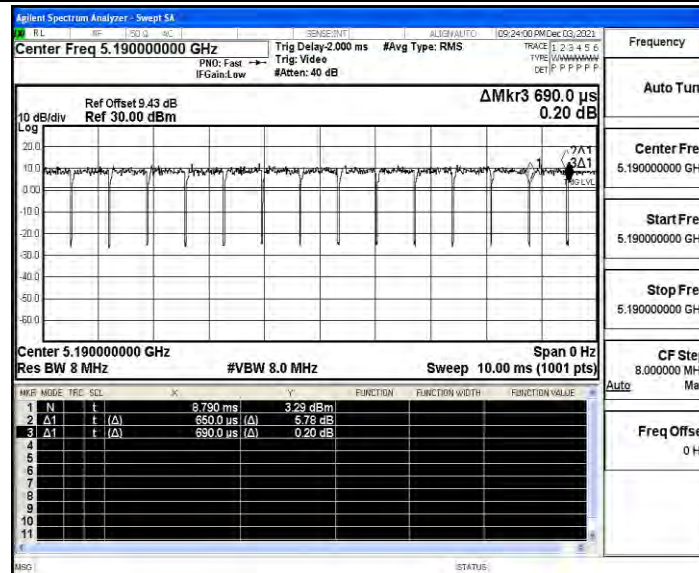
11AC20SISO_Ant1_5200



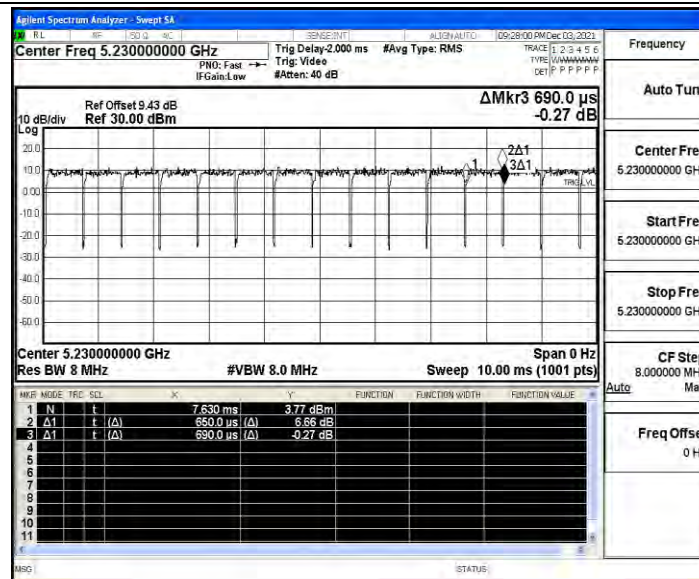
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

