



Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Tablet PC

Test Model: T10

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





D.1 26dB Bandwidth

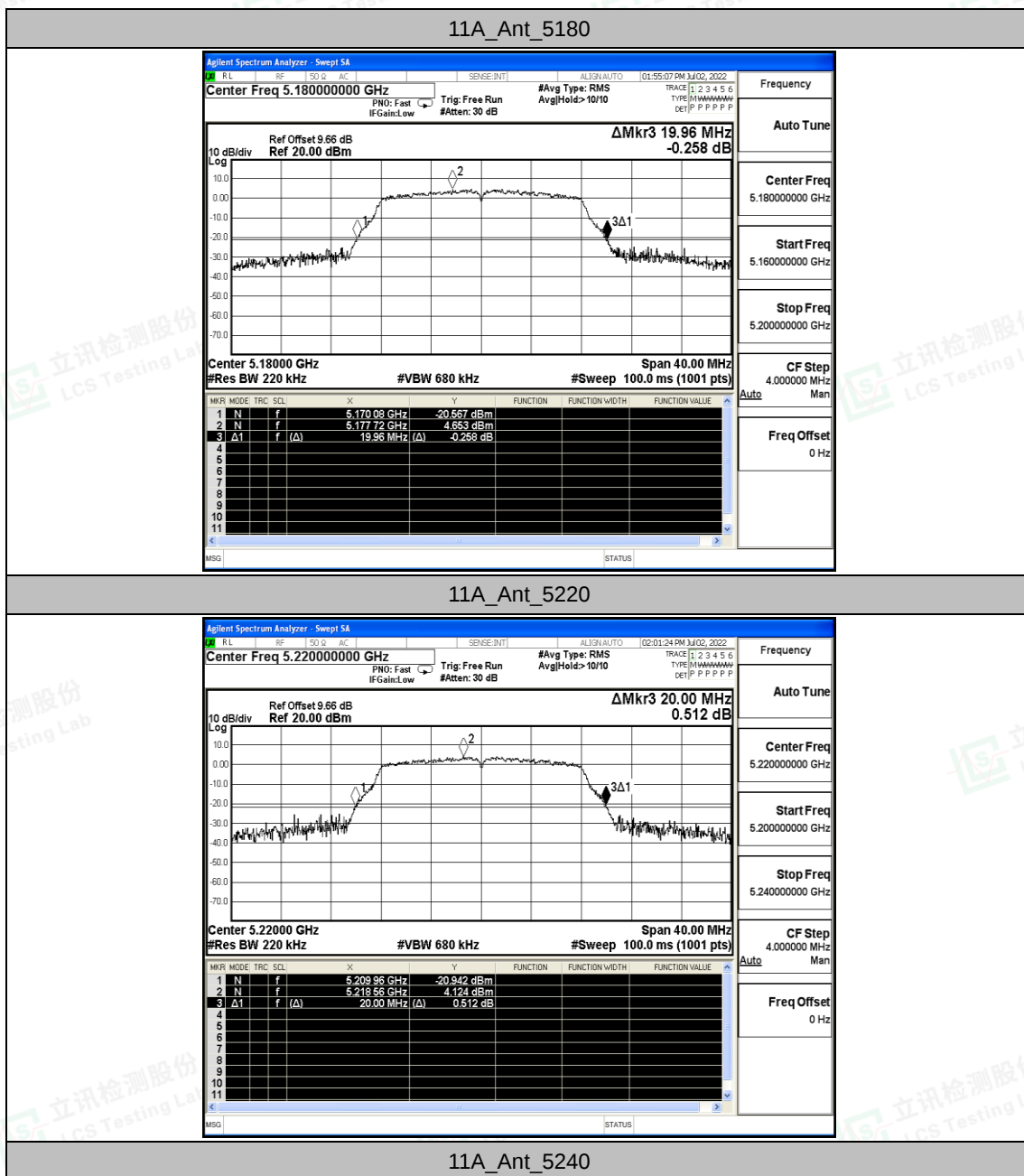
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant	5180	19.960	5170.080	5190.040	---	---
		5220	20.000	5209.960	5229.960	---	---
		5240	20.240	5229.720	5249.960	---	---
11N20SISO	Ant	5180	20.440	5169.760	5190.200	---	---
		5220	20.280	5209.880	5230.160	---	---
		5240	20.400	5229.800	5250.200	---	---
11N40SISO	Ant	5190	40.960	5169.600	5210.560	---	---
		5230	40.160	5210.000	5250.160	---	---
11AC20SISO	Ant	5180	20.560	5169.720	5190.280	---	---
		5220	20.400	5209.840	5230.240	---	---
		5240	20.440	5229.840	5250.280	---	---
11AC40SISO	Ant	5190	40.480	5169.760	5210.240	---	---
		5230	40.640	5209.680	5250.320	---	---
11AC80SISO	Ant	5210	80.800	5169.520	5250.320	---	---





Test Graphs

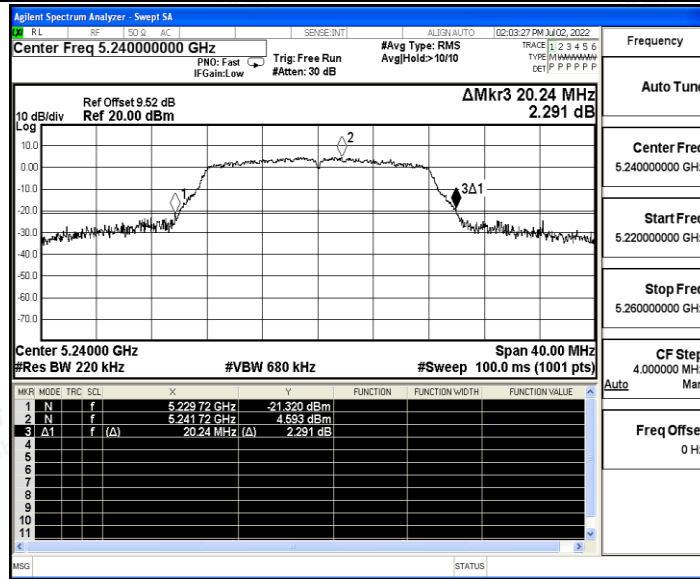


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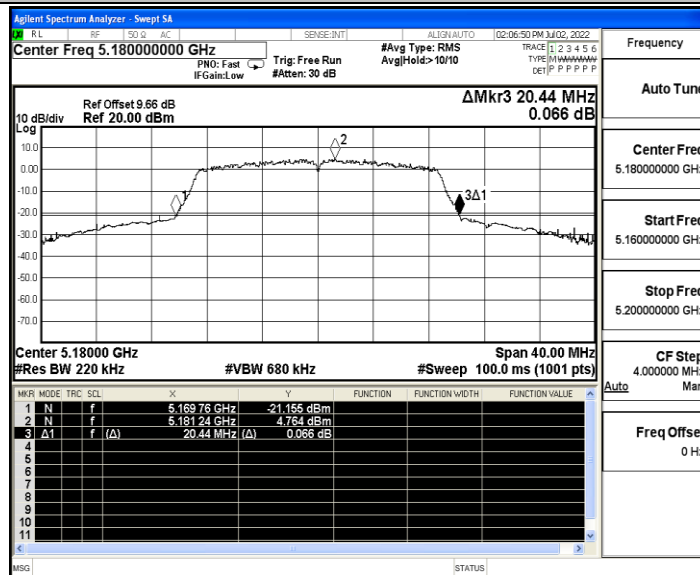
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11N20SISO_Ant_5180



11N20SISO_Ant_5220

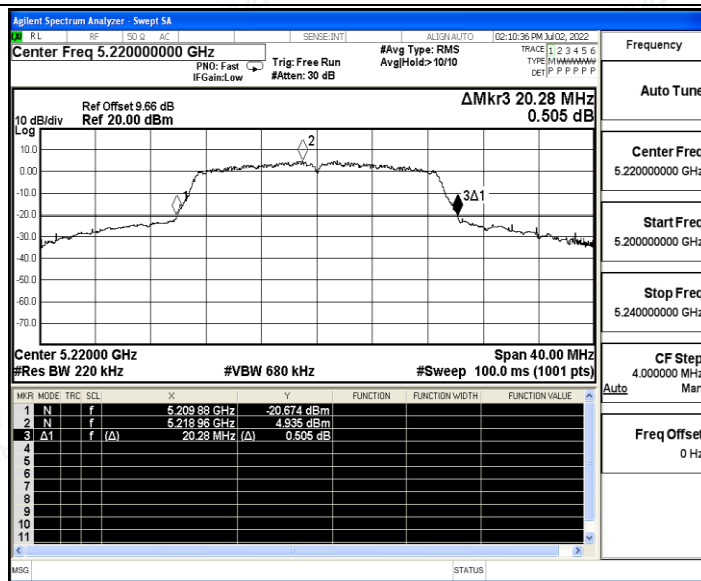


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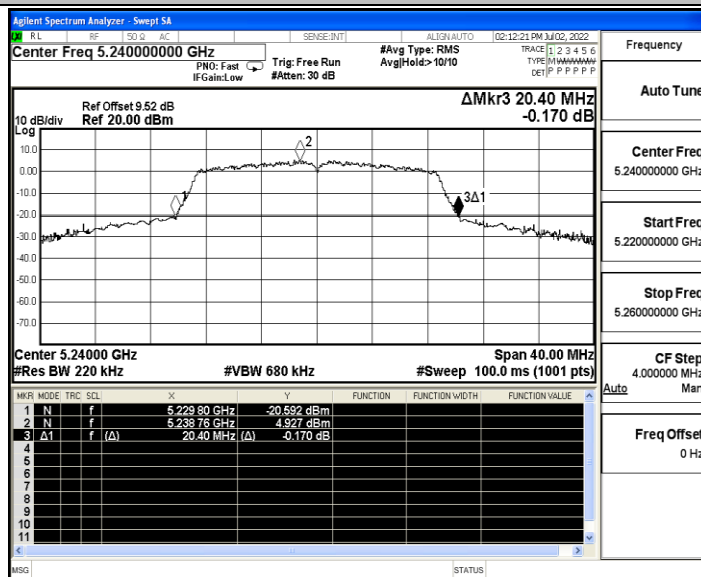
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11N20SISO_Ant_5240



11N40SISO_Ant_5190

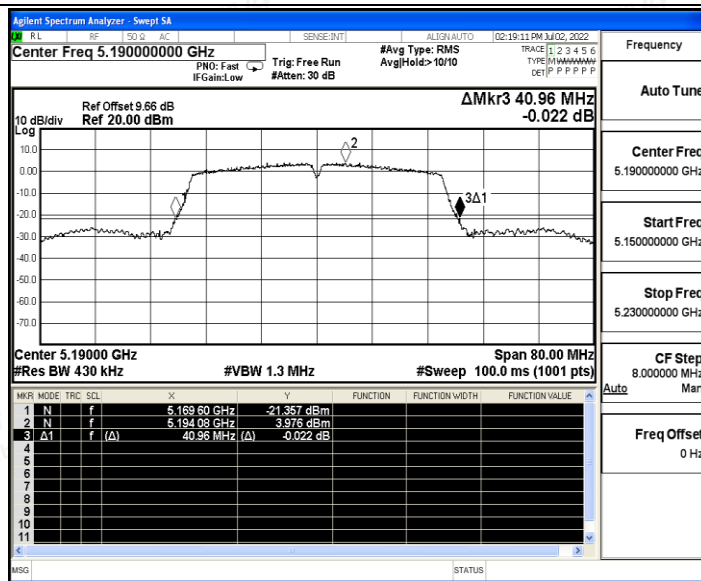


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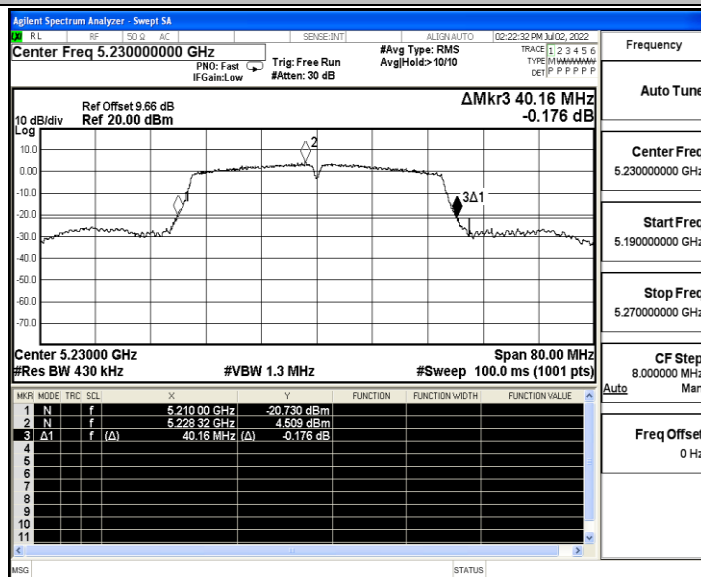
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11N40SISO_Ant_5230



11AC20SISO_Ant_5180

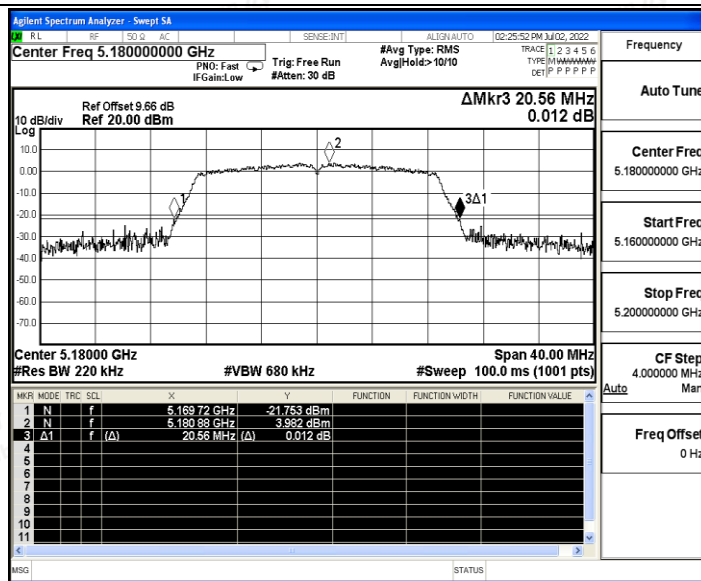


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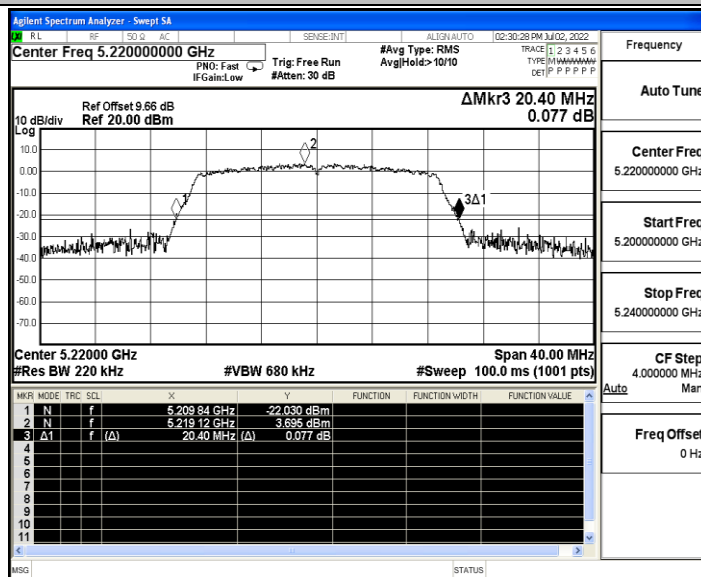
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC20SISO_Ant_5220



11AC20SISO_Ant_5240

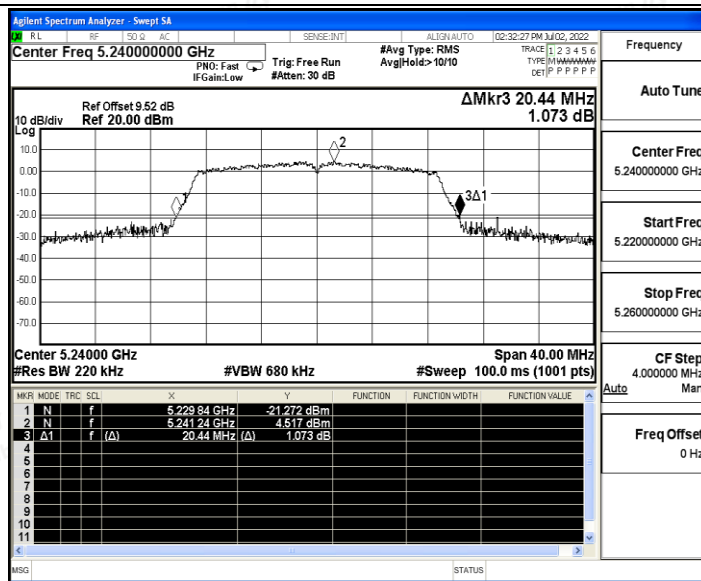


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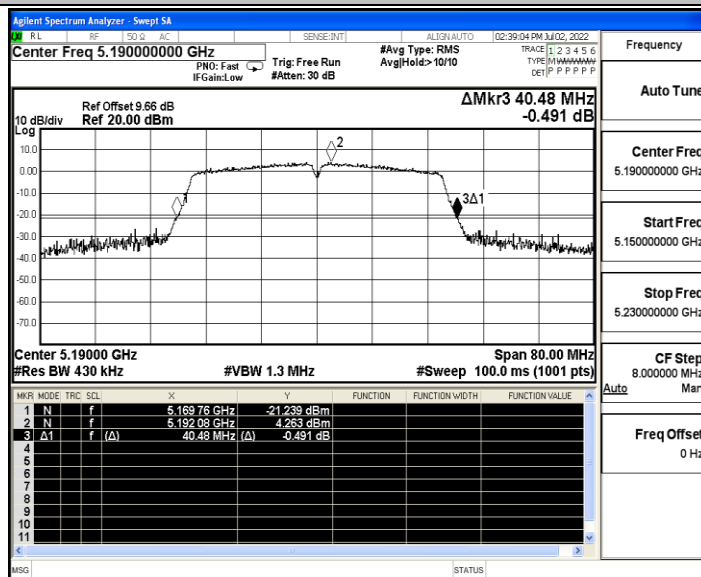
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11AC40SISO_Ant_5190



11AC40SISO_Ant_5230

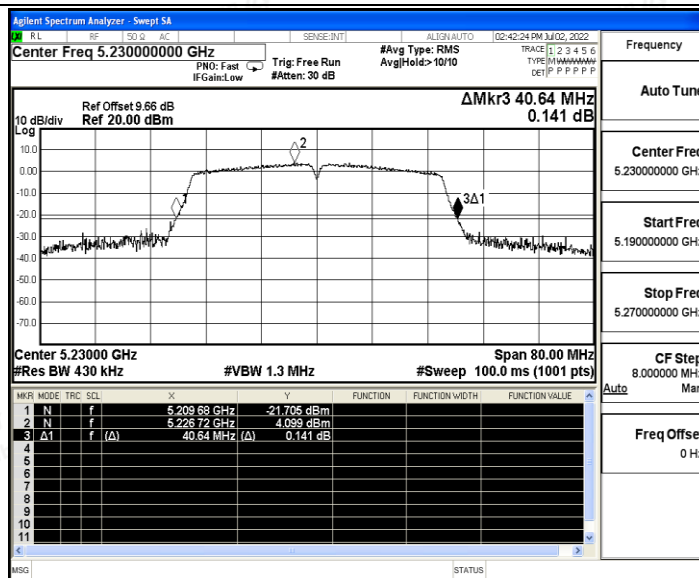


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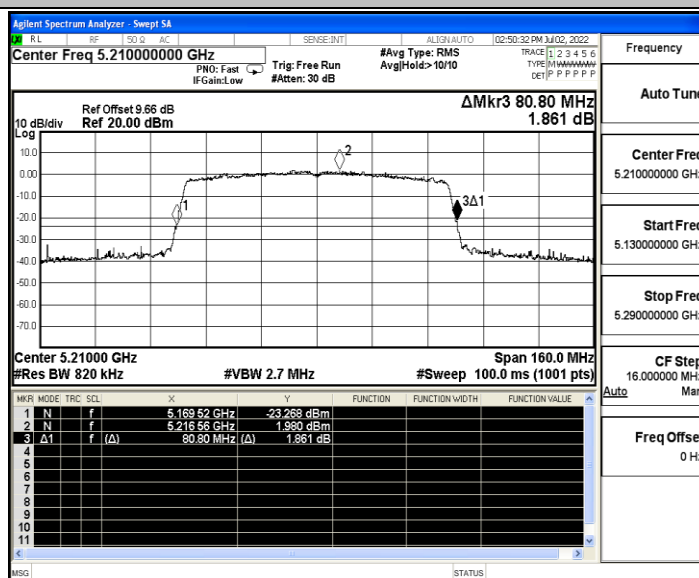
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11AC80SISO_Ant_5210



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D.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant	5180	13.63	≤23.98	PASS
		5220	12.95	≤23.98	PASS
		5240	13.67	≤23.98	PASS
11N20SISO	Ant	5180	13.79	≤23.98	PASS
		5220	13.88	≤23.98	PASS
		5240	13.98	≤23.98	PASS
11N40SISO	Ant	5190	12.80	≤23.98	PASS
		5230	12.77	≤23.98	PASS
11AC20SISO	Ant	5180	12.92	≤23.98	PASS
		5220	12.91	≤23.98	PASS
		5240	13.66	≤23.98	PASS
11AC40SISO	Ant	5190	12.93	≤23.98	PASS
		5230	12.76	≤23.98	PASS
11AC80SISO	Ant	5210	10.63	≤23.98	PASS

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





D.3 Maximum power spectral density

Test Result

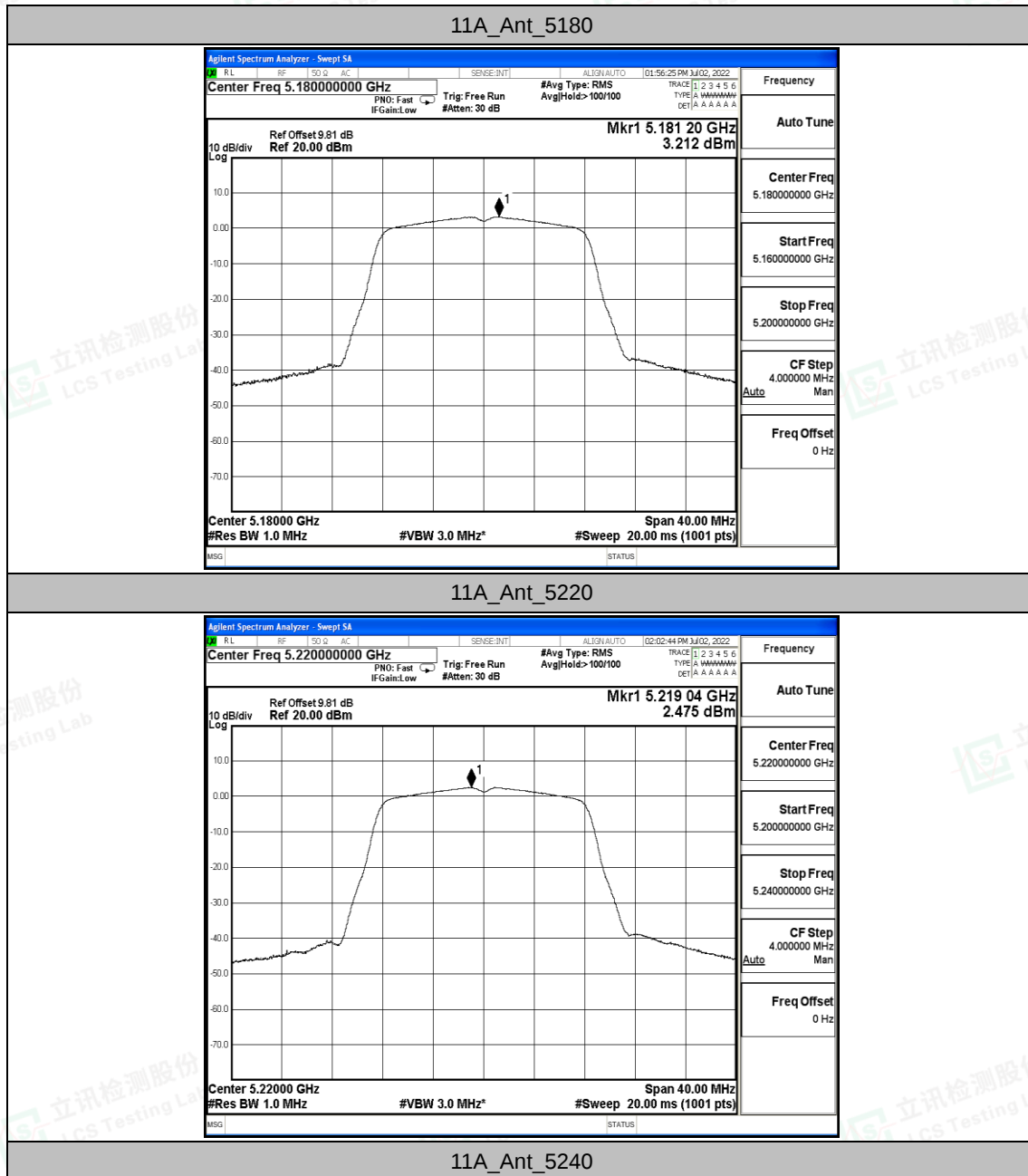
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant	5180	3.19	≤11.00	PASS
		5220	2.48	≤11.00	PASS
		5240	3.32	≤11.00	PASS
11N20SISO	Ant	5180	3.17	≤11.00	PASS
		5220	3.28	≤11.00	PASS
		5240	3.34	≤11.00	PASS
11N40SISO	Ant	5190	-0.66	≤11.00	PASS
		5230	-0.72	≤11.00	PASS
11AC20SISO	Ant	5180	2.33	≤11.00	PASS
		5220	2.29	≤11.00	PASS
		5240	3.05	≤11.00	PASS
11AC40SISO	Ant	5190	-0.57	≤11.00	PASS
		5230	-0.73	≤11.00	PASS
11AC80SISO	Ant	5210	-6.03	≤11.00	PASS

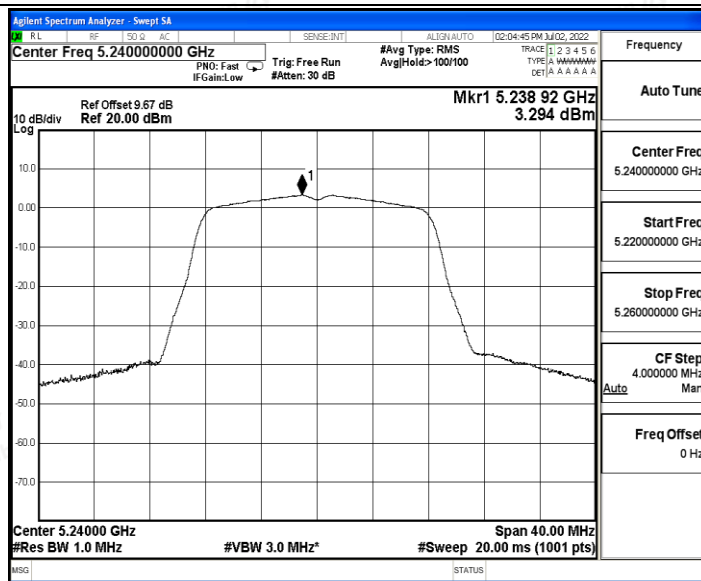
Note: The Duty Cycle Factor and RBW Factor is compensated in the graph.



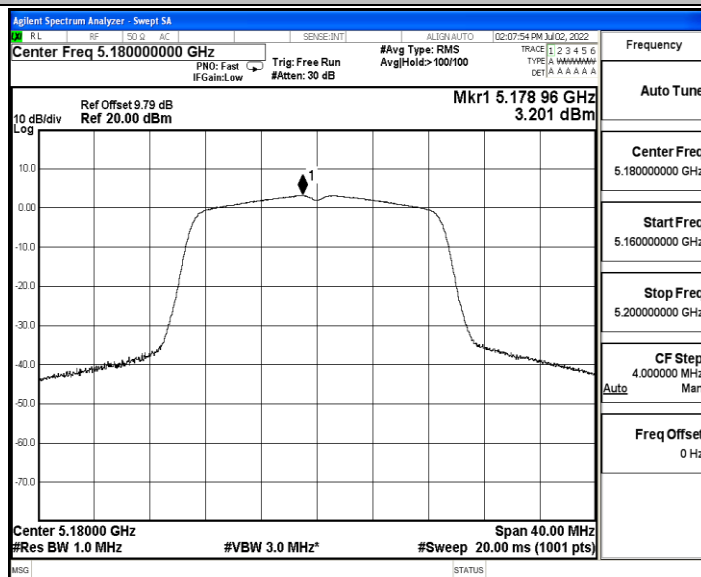


Test Graphs



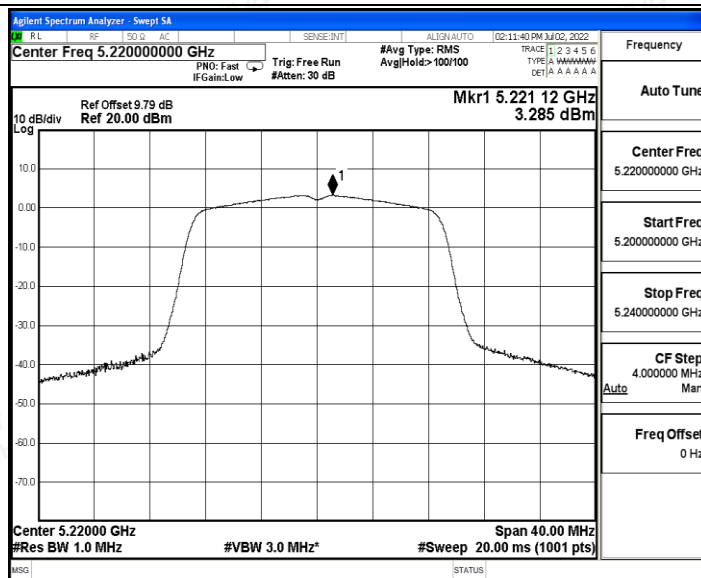


11N20SISO_Ant_5180

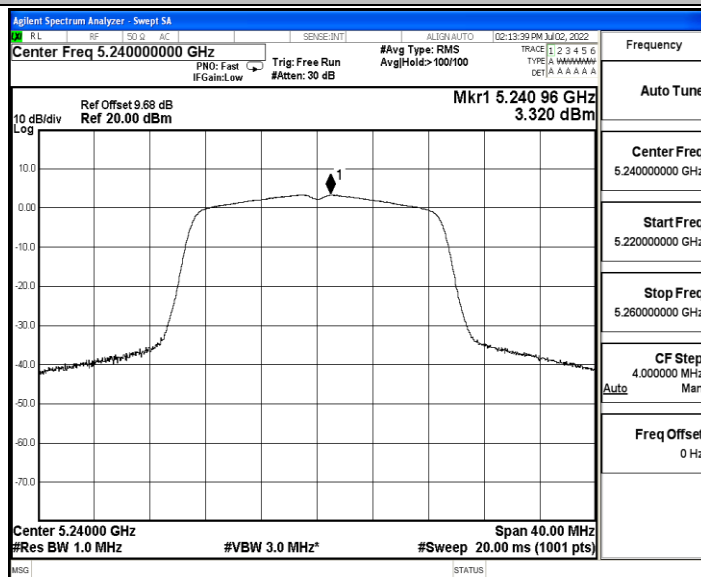


11N20SISO_Ant_5220



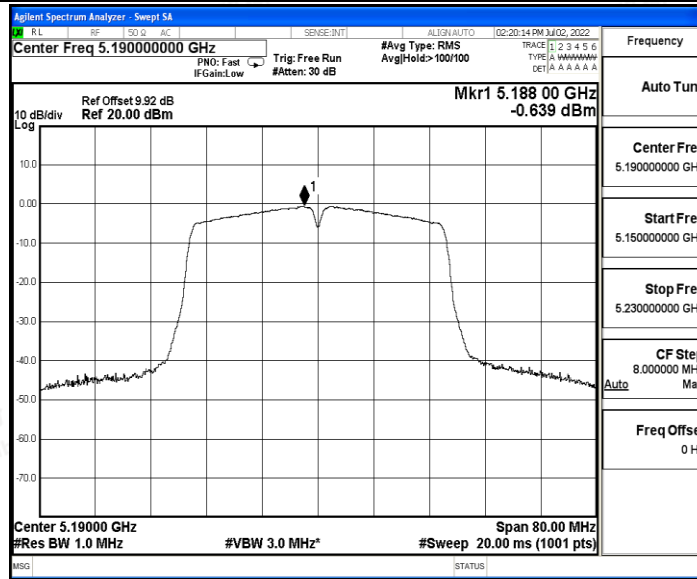


11N20SISO_Ant_5240

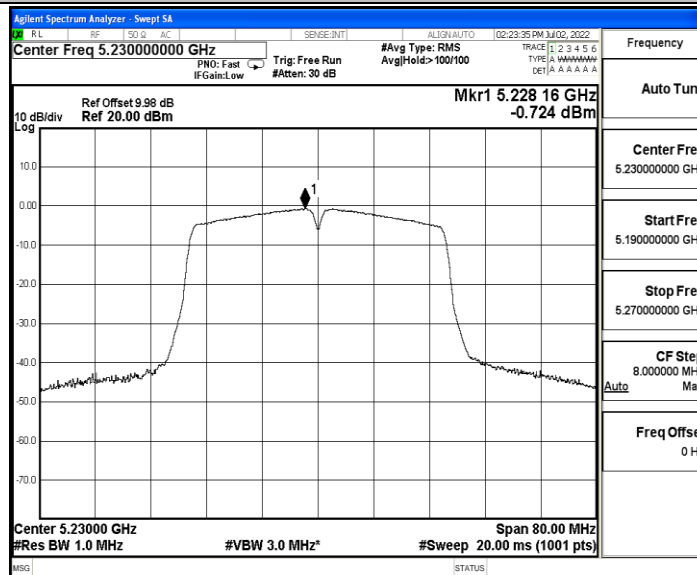


11N40SISO_Ant_5190



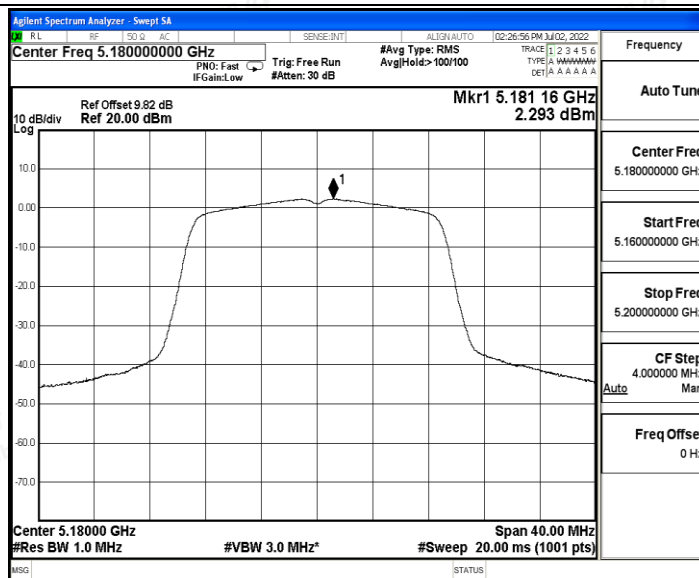


11N40SISO_Ant_5230

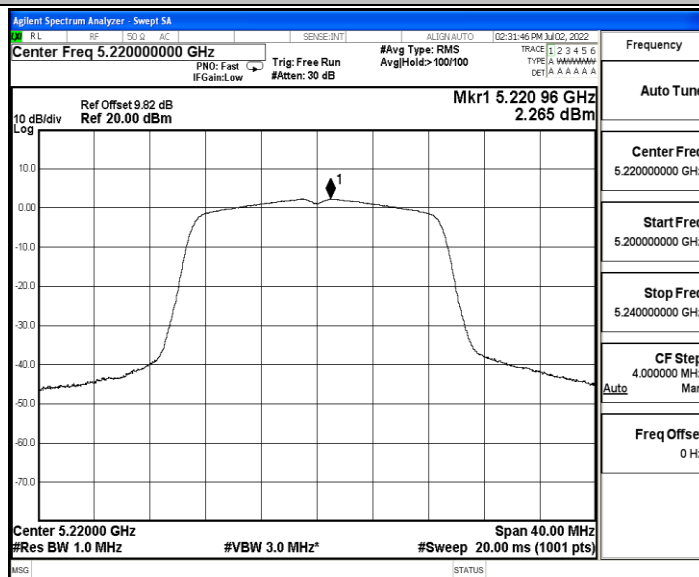


11AC20SISO_Ant_5180



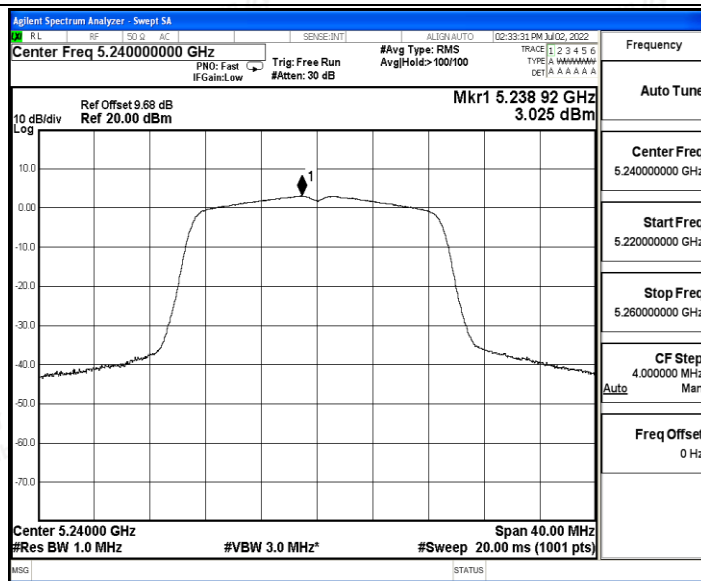


11AC20SISO_Ant_5220

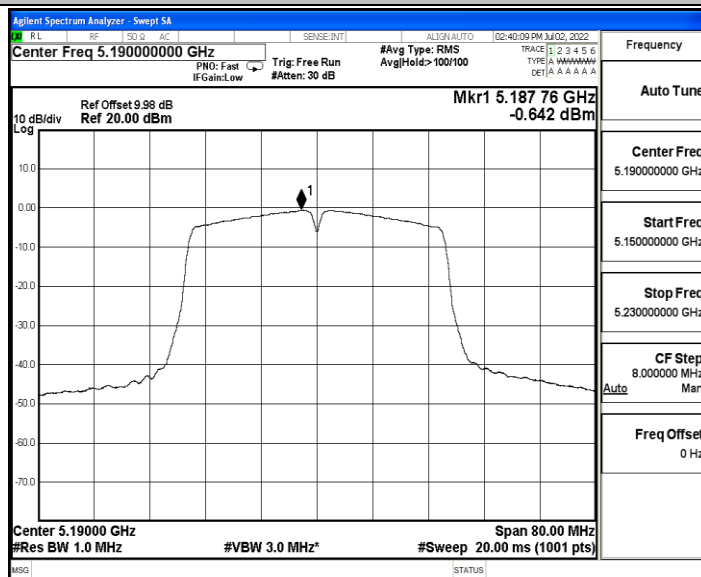


11AC20SISO_Ant_5240



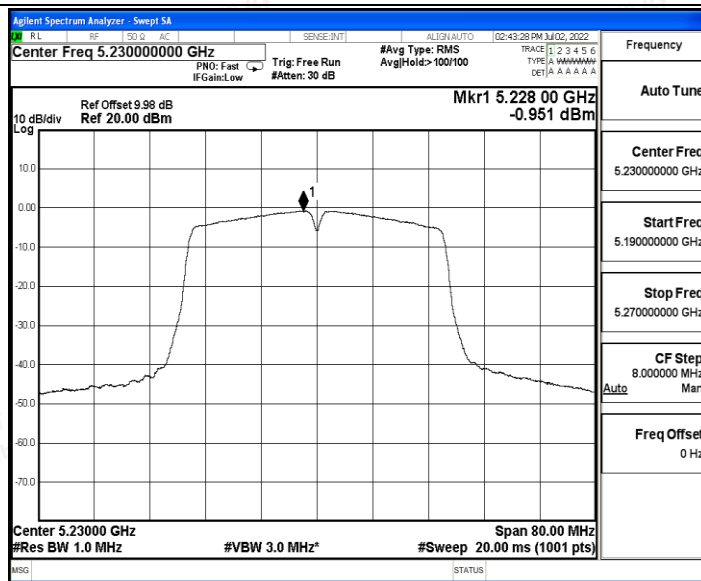


11AC40SISO_Ant_5190

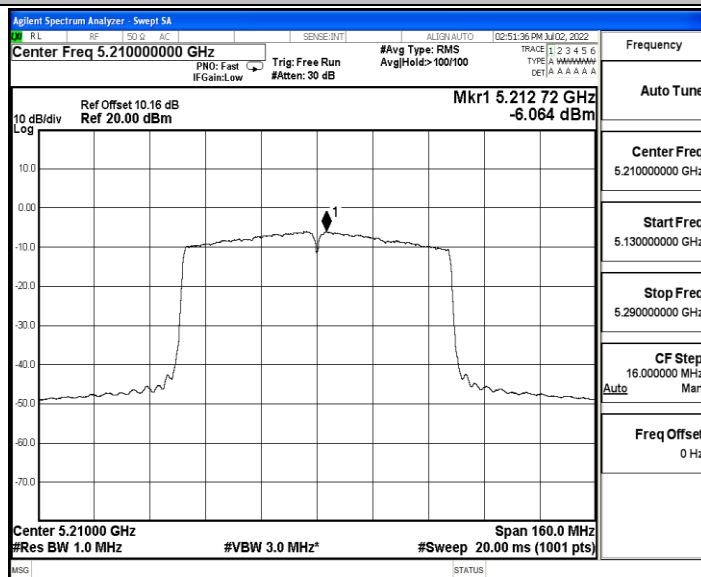


11AC40SISO_Ant_5230





11AC80SISO_Ant_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	Ant	Low	5180	AV	4500.000	-48.49	≤-41.20	46.71	≤54	PASS
				AV	5149.600	-43.58	≤-41.20	51.62	≤54	PASS
				AV	5150.000	-43.49	≤-41.20	51.71	≤54	PASS
				Peak	4500.000	-40.21	≤-21.20	54.99	≤68.2	PASS
				Peak	5148.900	-28.81	≤-21.20	66.39	≤68.2	PASS
				Peak	5150.000	-32.88	≤-21.20	62.32	≤68.2	PASS
		High	5240	AV	5350.000	-47.28	≤-41.20	47.92	≤54	PASS
				AV	5359.440	-47.07	≤-41.20	48.13	≤54	PASS
				AV	5460.000	-47.46	≤-41.20	47.74	≤54	PASS
				Peak	5350.000	-39.15	≤-21.20	56.05	≤68.2	PASS
				Peak	5351.040	-36.5	≤-21.20	58.70	≤68.2	PASS
				Peak	5460.000	-38.89	≤-21.20	56.31	≤68.2	PASS
11N20SIS O	Ant	Low	5180	AV	4500.000	-48.57	≤-41.20	46.63	≤54	PASS
				AV	5149.600	-43.07	≤-41.20	52.13	≤54	PASS
				AV	5150.000	-43.01	≤-41.20	52.19	≤54	PASS
				Peak	4500.000	-40.24	≤-21.20	54.96	≤68.2	PASS
				Peak	5148.900	-24.13	≤-21.20	67.07	≤68.2	PASS
				Peak	5150.000	-24.61	≤-21.20	66.59	≤68.2	PASS
		High	5240	AV	5350.000	-47.17	≤-41.20	48.03	≤54	PASS
				AV	5354.400	-47.02	≤-41.20	48.18	≤54	PASS
				AV	5460.000	-47.45	≤-41.20	47.75	≤54	PASS
				Peak	5350.000	-36.92	≤-21.20	58.28	≤68.2	PASS
				Peak	5414.640	-36.25	≤-21.20	58.95	≤68.2	PASS
				Peak	5460.000	-38.62	≤-21.20	56.58	≤68.2	PASS
11N40SIS O	Ant	Low	5190	AV	4500.000	-48.37	≤-41.20	46.83	≤54	PASS
				AV	5149.600	-41.83	≤-41.20	53.37	≤54	PASS
				AV	5150.000	-41.61	≤-41.20	53.59	≤54	PASS
				Peak	4500.000	-40.22	≤-21.20	54.98	≤68.2	PASS
				Peak	5149.600	-27.25	≤-21.20	67.95	≤68.2	PASS
				Peak	5150.000	-27.11	≤-21.20	68.09	≤68.2	PASS
		High	5230	AV	5350.000	-46.81	≤-41.20	48.39	≤54	PASS
				AV	5375.240	-46.61	≤-41.20	48.59	≤54	PASS
				AV	5460.000	-47.1	≤-41.20	48.10	≤54	PASS
				Peak	5350.000	-39.62	≤-21.20	55.58	≤68.2	PASS



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11AC20SI SO	Ant	Low	5180	Peak	5363.020	-36.72	≤-21.20	58.48	≤68.2	PASS
				Peak	5460.000	-38.17	≤-21.20	57.03	≤68.2	PASS
				AV	4500.000	-48.67	≤-41.20	46.53	≤54	PASS
				AV	5148.900	-44.51	≤-41.20	50.69	≤54	PASS
				AV	5150.000	-44.56	≤-41.20	50.64	≤54	PASS
				Peak	4500.000	-37.54	≤-21.20	57.66	≤68.2	PASS
		High	5240	Peak	5147.500	-30.52	≤-21.20	64.68	≤68.2	PASS
				Peak	5150.000	-32.99	≤-21.20	62.21	≤68.2	PASS
				AV	5350.000	-47.1	≤-41.20	48.10	≤54	PASS
				AV	5350.320	-46.98	≤-41.20	48.22	≤54	PASS
				AV	5460.000	-47.57	≤-41.20	47.63	≤54	PASS
				Peak	5350.000	-38.4	≤-21.20	56.80	≤68.2	PASS
11AC40SI SO	Ant	Low	5190	Peak	5409.840	-36.64	≤-21.20	58.56	≤68.2	PASS
				Peak	5460.000	-37.77	≤-21.20	57.43	≤68.2	PASS
				AV	4500.000	-48.4	≤-41.20	46.80	≤54	PASS
				AV	5149.600	-43.66	≤-41.20	51.54	≤54	PASS
				AV	5150.000	-43.17	≤-41.20	52.03	≤54	PASS
				Peak	4500.000	-39.81	≤-21.20	55.39	≤68.2	PASS
		High	5230	Peak	5149.600	-28.91	≤-21.20	66.29	≤68.2	PASS
				Peak	5150.000	-31.19	≤-21.20	64.01	≤68.2	PASS
				AV	5350.000	-46.93	≤-41.20	48.27	≤54	PASS
				AV	5351.060	-46.47	≤-41.20	48.73	≤54	PASS
				AV	5460.000	-47.16	≤-41.20	48.04	≤54	PASS
				Peak	5350.000	-37.5	≤-21.20	57.70	≤68.2	PASS
11AC80SI SO	Ant	Low	5210	Peak	5361.200	-36.51	≤-21.20	58.69	≤68.2	PASS
				Peak	5460.000	-38.91	≤-21.20	56.29	≤68.2	PASS
				AV	4500.000	-47.83	≤-41.20	47.37	≤54	PASS
				AV	5149.500	-43.04	≤-41.20	52.16	≤54	PASS
				AV	5150.000	-43.25	≤-41.20	51.95	≤54	PASS
				Peak	4500.000	-39.28	≤-21.20	55.92	≤68.2	PASS
		High	5210	Peak	5132.250	-34.38	≤-21.20	60.82	≤68.2	PASS
				Peak	5150.000	-35.65	≤-21.20	59.55	≤68.2	PASS
				AV	5350.000	-46.8	≤-41.20	48.40	≤54	PASS
				AV	5367.880	-46.04	≤-41.20	49.16	≤54	PASS
				AV	5460.000	-46.44	≤-41.20	48.76	≤54	PASS
				Peak	5350.000	-38.43	≤-21.20	56.77	≤68.2	PASS

Note:

1. The Antenna Gain is compensated in the graph.



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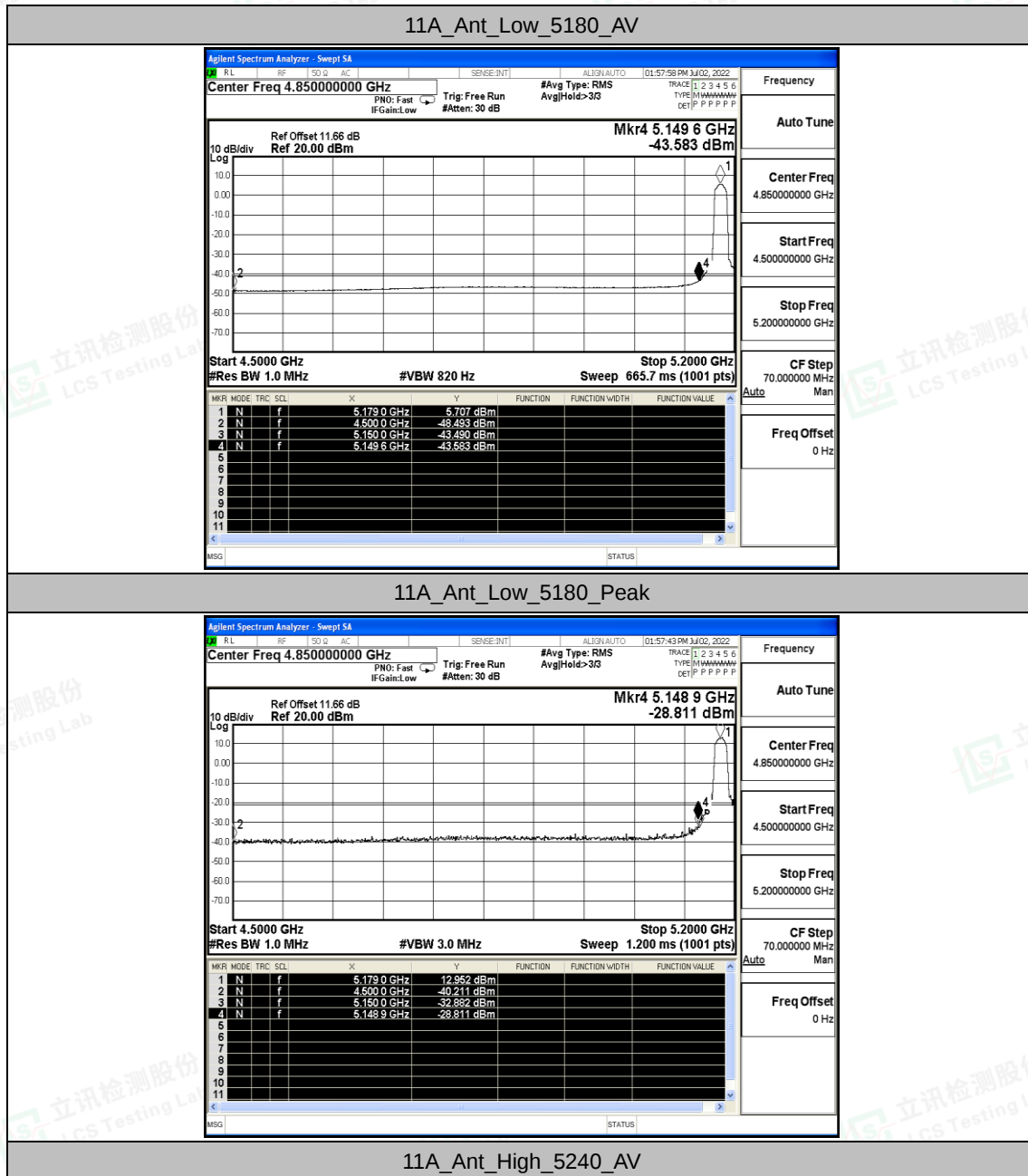


2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.





Test Graphs

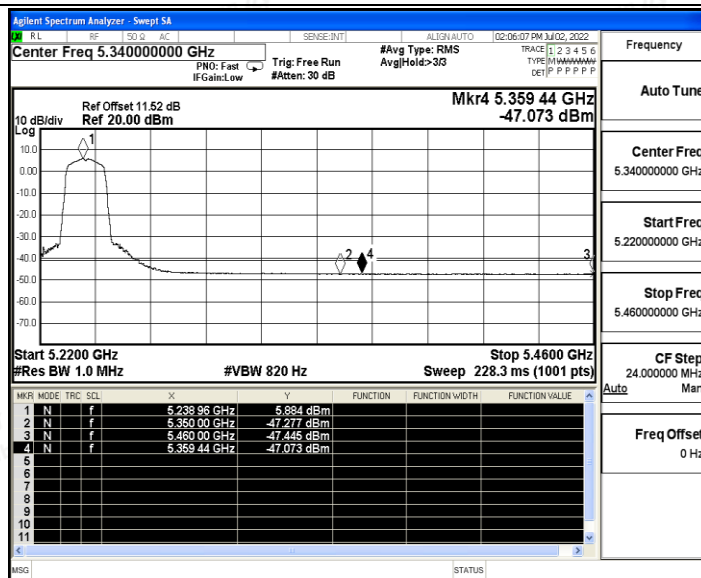


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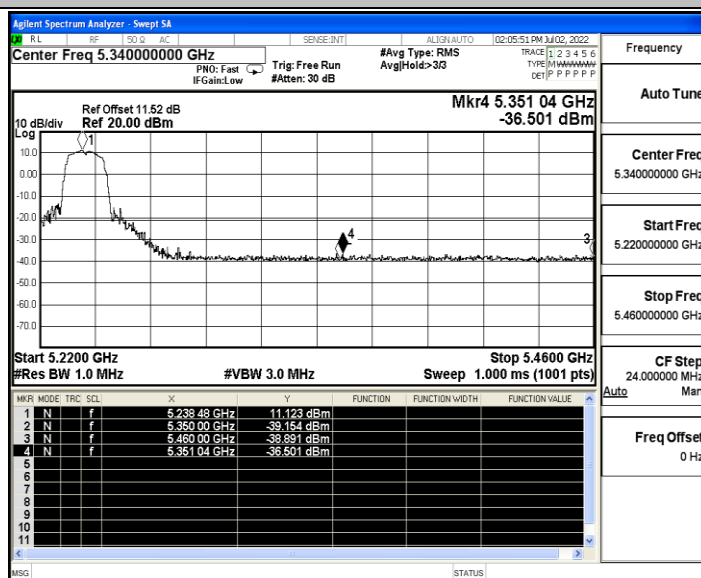
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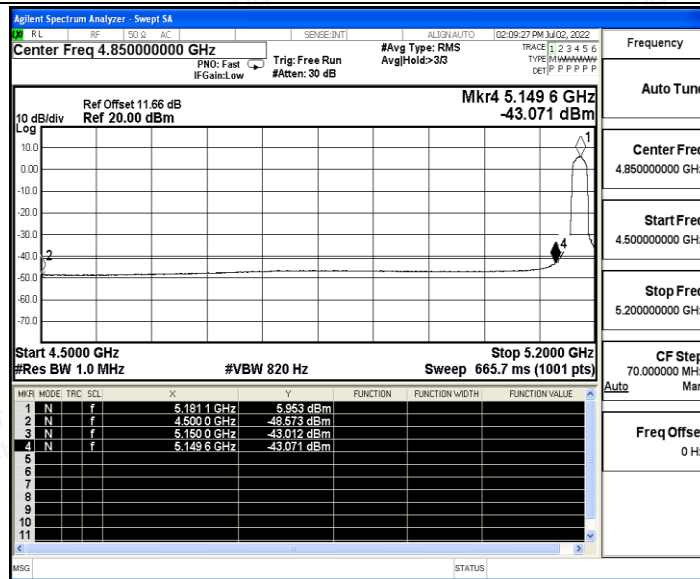


11A_Ant_High_5240_Peak

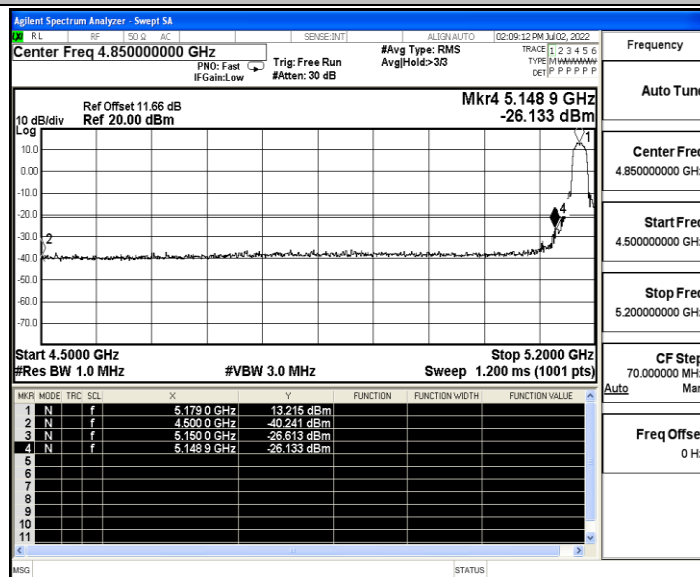


11N20SISO_Ant_Low_5180_AV





11N20SISO_Ant_Low_5180_Peak



11N20SISO_Ant_High_5240_AV

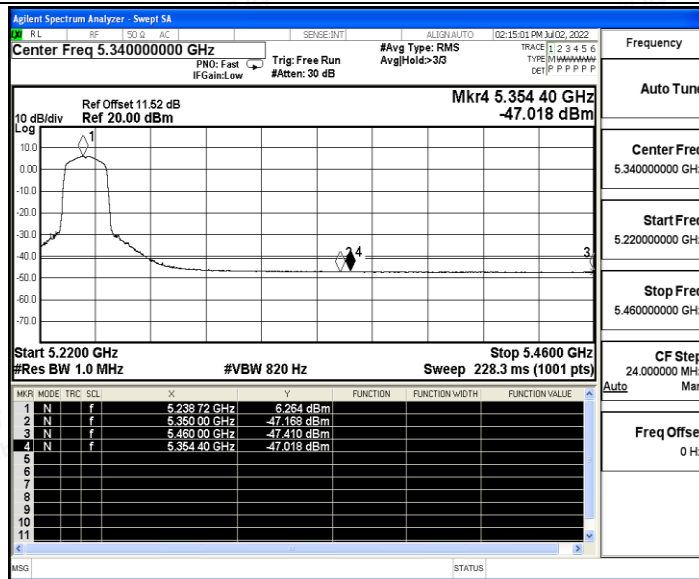


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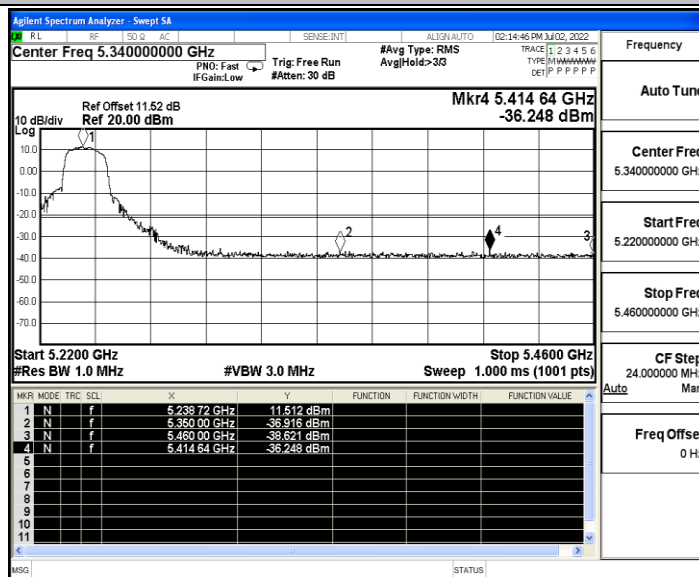
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11N20SISO_Ant_High_5240_Peak



11N40SISO_Ant_Low_5190_AV

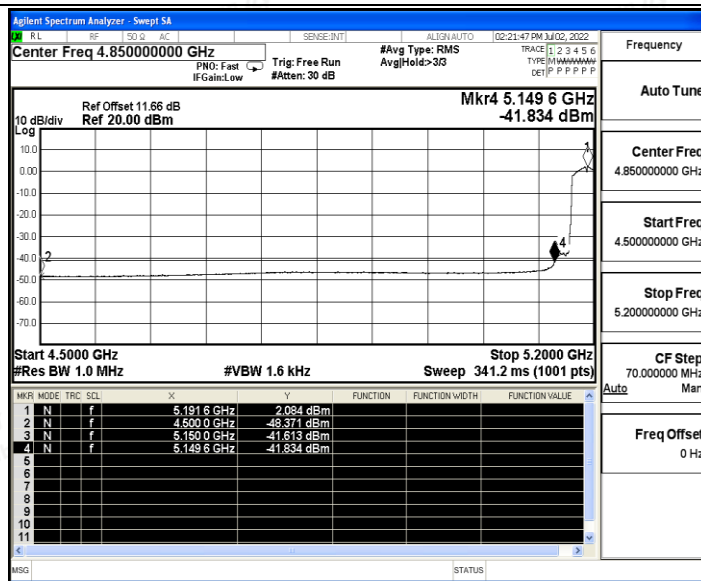


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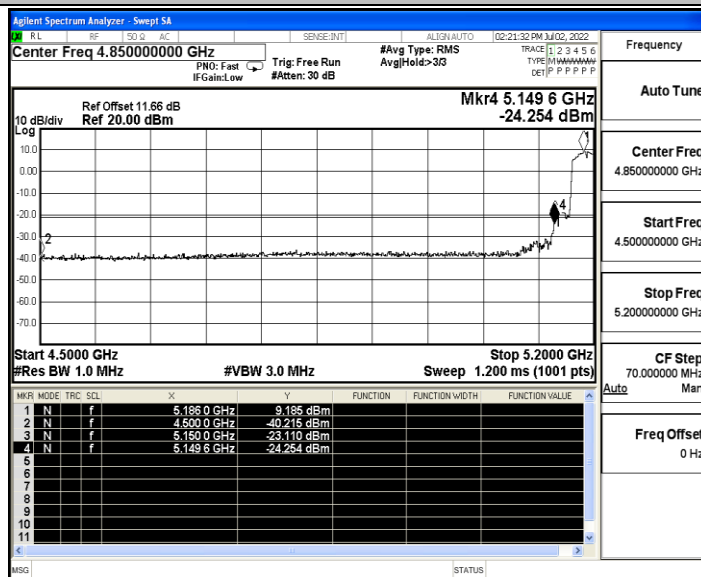
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11N40SISO_Ant_Low_5190_Peak



11N40SISO_Ant_High_5230_AV

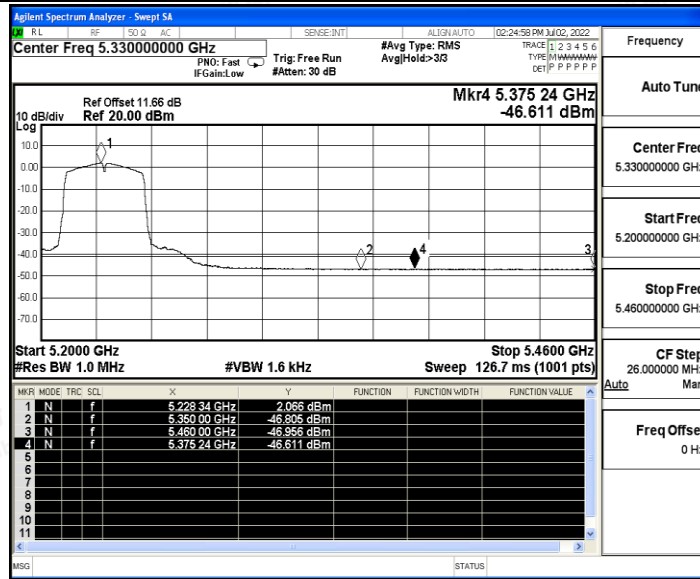


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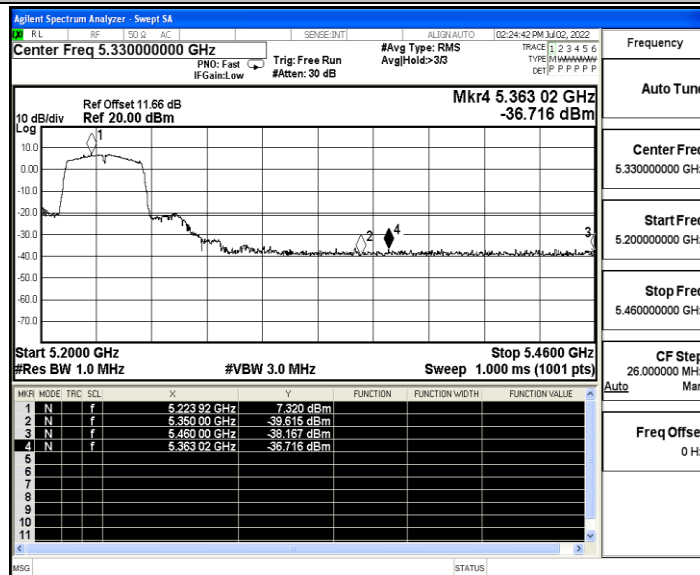
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11N40SISO_Ant_High_5230_Peak



11AC20SISO_Ant_Low_5180_AV

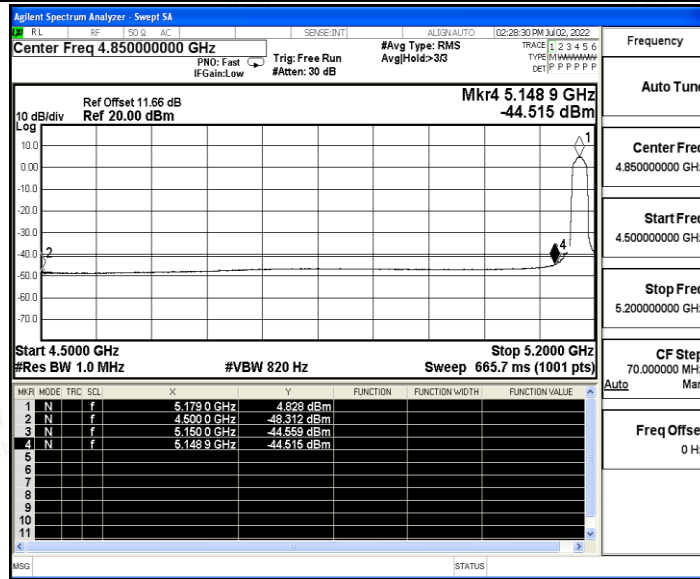


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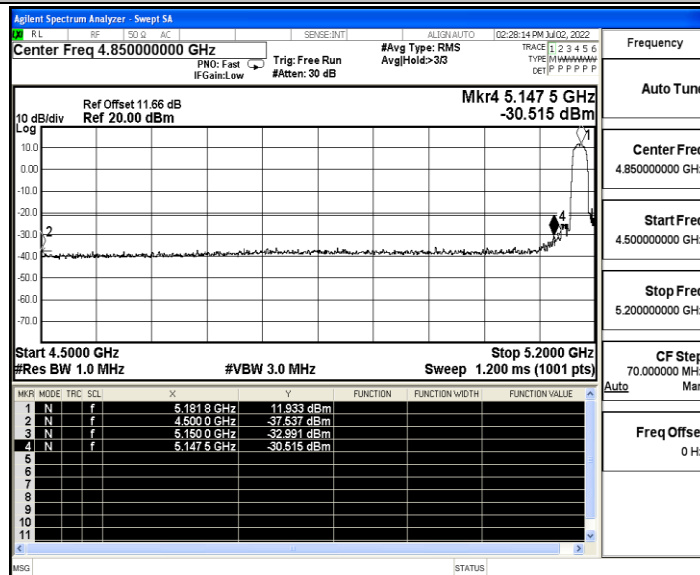
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11AC20SISO_Ant_Low_5180_Peak



11AC20SISO_Ant_High_5240_AV

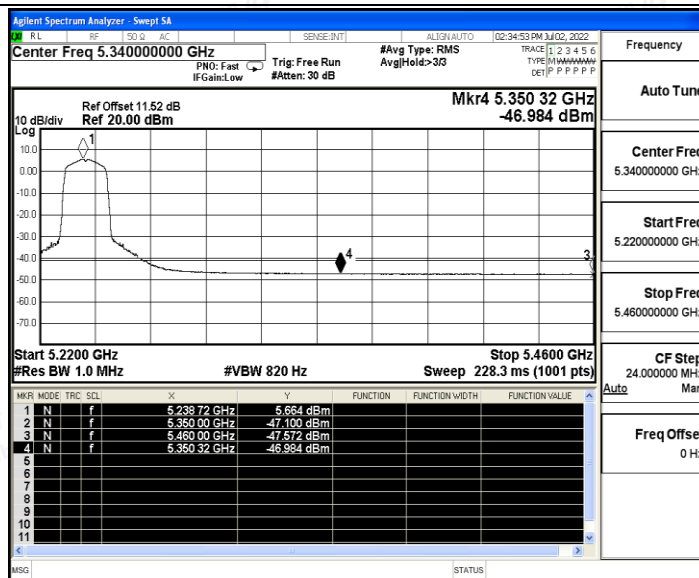


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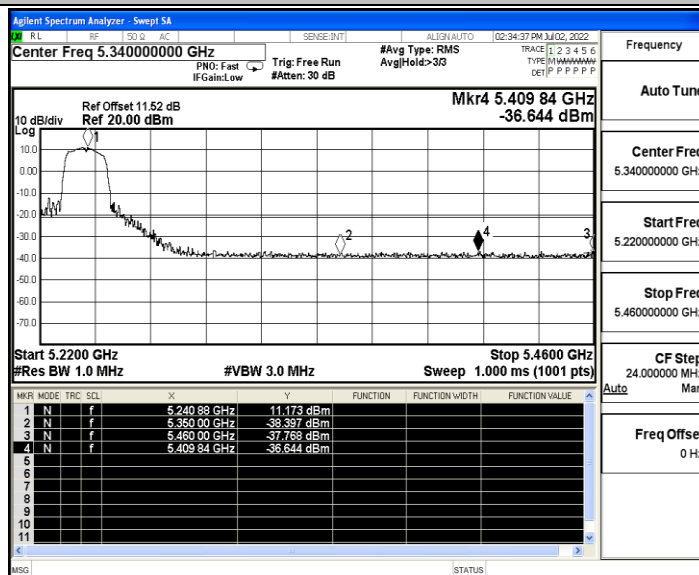
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11AC20SISO_Ant_High_5240_Peak



11AC40SISO_Ant_Low_5190_AV

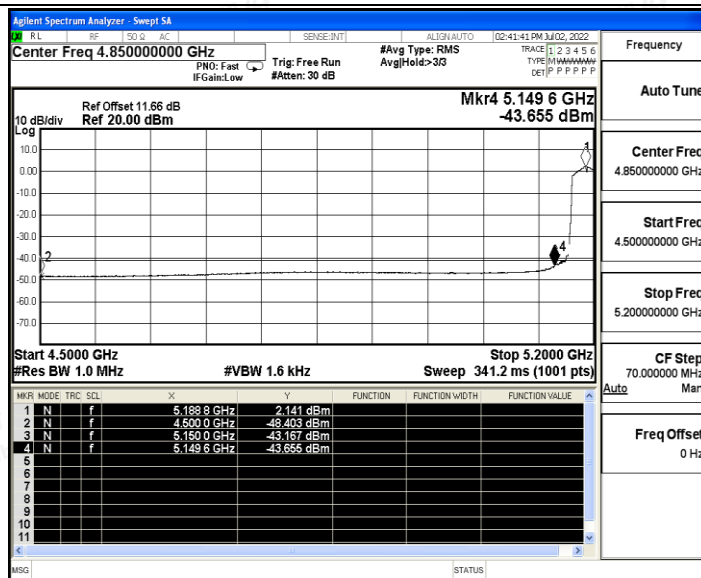


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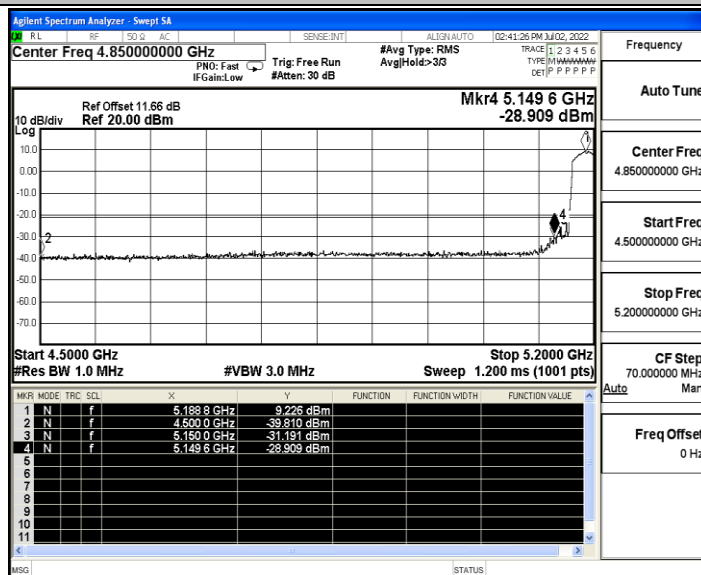
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11AC40SISO_Ant_Low_5190_Peak



11AC40SISO_Ant_High_5230_AV

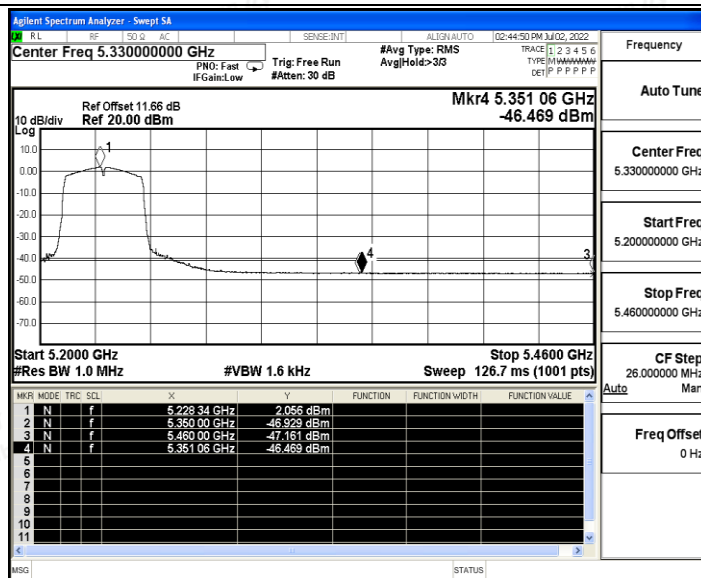


Shenzhen LCS Compliance Testing Laboratory Ltd.

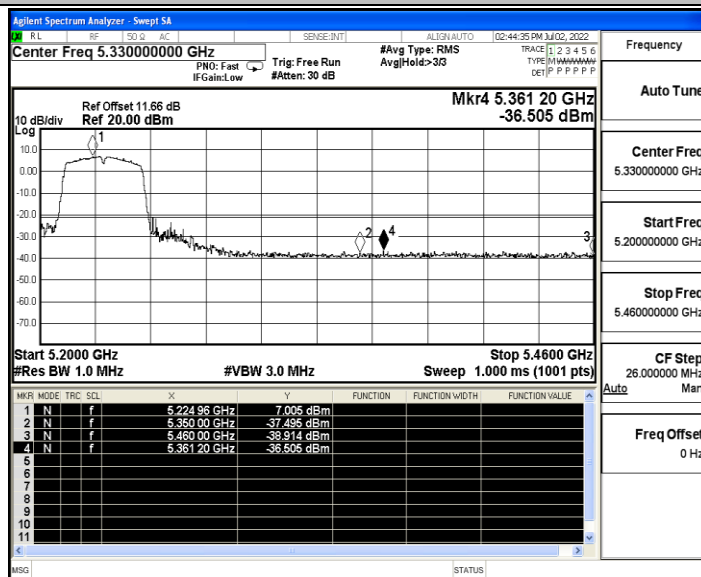
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11AC40SISO_Ant_High_5230_Peak



11AC80SISO_Ant_Low_5210_AV

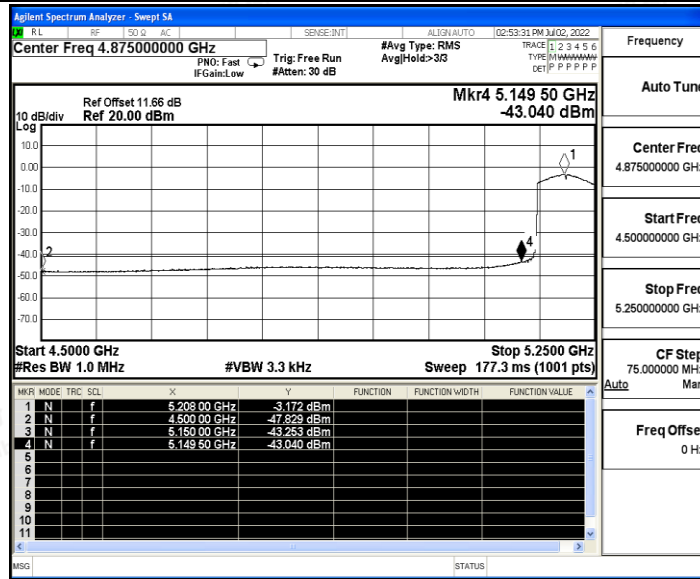


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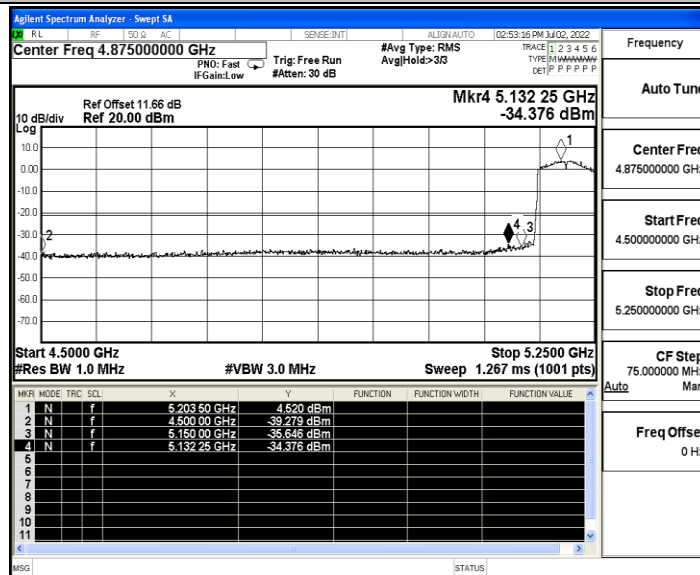
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11AC80SISO_Ant_Low_5210_Peak



11AC80SISO_Ant_High_5210_AV

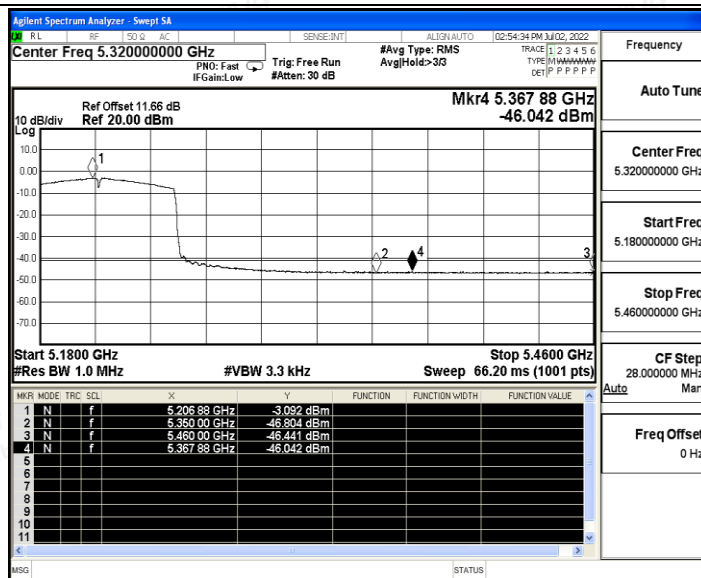


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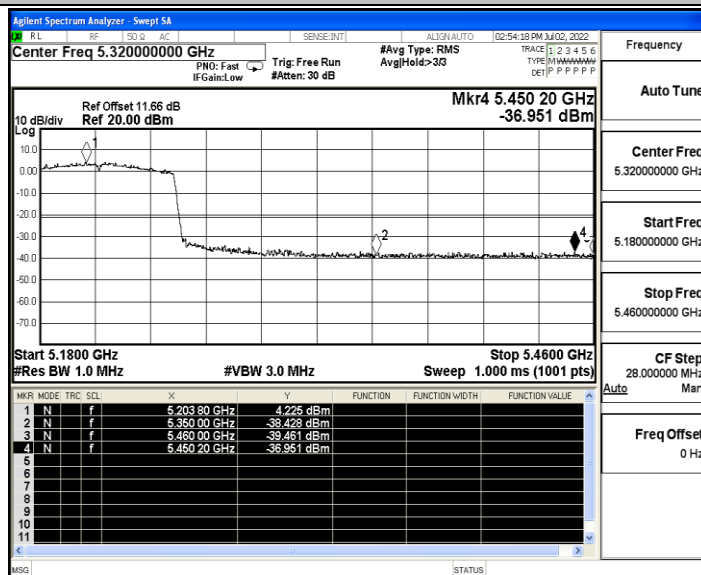
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11AC80SISO_Ant_High_5210_Peak



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D.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant	5180	NV	NT	20000	3.861004	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	40000	7.722008	20	PASS
		5220	NV	NT	40000	7.662835	20	PASS
			LV	NT	20000	3.831418	20	PASS
			HV	NT	20000	3.831418	20	PASS
		5240	NV	NT	20000	3.816794	20	PASS
			LV	NT	20000	3.816794	20	PASS
			HV	NT	20000	3.816794	20	PASS
11AC40S ISO	Ant	5190	NV	NT	0	0	20	PASS
			LV	NT	40000	7.707129	20	PASS
			HV	NT	40000	7.707129	20	PASS
		5230	NV	NT	0	0	20	PASS
			LV	NT	40000	7.648184	20	PASS
			HV	NT	0	0	20	PASS
11AC80S ISO	Ant	5210	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	0	0	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant	5180	NV	-30	20000	3.861004	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	20000	3.861004	20	PASS
			NV	0	0	0	20	PASS
			NV	10	20000	3.861004	20	PASS
			NV	20	40000	7.722008	20	PASS
			NV	30	40000	7.722008	20	PASS
			NV	40	40000	7.722008	20	PASS
			NV	50	0	0	20	PASS
		5220	NV	-30	40000	7.662835	20	PASS
			NV	-20	20000	3.831418	20	PASS





			NV	-10	20000	3.831418	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	20000	3.831418	20	PASS
			NV	30	40000	7.662835	20	PASS
			NV	40	20000	3.831418	20	PASS
			NV	50	40000	7.662835	20	PASS
		5240	NV	-30	-20000	-3.816794	20	PASS
			NV	-20	20000	3.816794	20	PASS
			NV	-10	20000	3.816794	20	PASS
			NV	0	0	0	20	PASS
			NV	10	-20000	-3.816794	20	PASS
			NV	20	20000	3.816794	20	PASS
			NV	30	20000	3.816794	20	PASS
			NV	40	0	0	20	PASS
			NV	50	0	0	20	PASS
11AC40S ISO	Ant	5190	NV	-30	0	0	20	PASS
			NV	-20	40000	7.707129	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	40000	7.707129	20	PASS
			NV	10	80000	15.414258	20	PASS
			NV	20	-40000	-7.707129	20	PASS
			NV	30	0	0	20	PASS
			NV	40	0	0	20	PASS
			NV	50	0	0	20	PASS
		5230	NV	-30	40000	7.648184	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	40000	7.648184	20	PASS
			NV	10	40000	7.648184	20	PASS
			NV	20	0	0	20	PASS
			NV	30	0	0	20	PASS
			NV	40	40000	7.648184	20	PASS
11AC80S ISO	Ant	5210	NV	-30	80000	15.355086	20	PASS
			NV	-20	80000	15.355086	20	PASS
			NV	-10	80000	15.355086	20	PASS
			NV	0	0	0	20	PASS
			NV	10	0	0	20	PASS
			NV	20	0	0	20	PASS



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		NV	30	80000	15.355086	20	PASS
		NV	40	0	0	20	PASS
		NV	50	80000	15.355086	20	PASS





D.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant	5180	1.39	1.44	96.53	---	---
		5220	1.39	1.44	96.53	---	---
		5240	1.39	1.44	96.53	---	---
11N20SISO	Ant	5180	1.30	1.34	97.01	---	---
		5220	1.30	1.34	97.01	---	---
		5240	1.30	1.35	96.30	---	---
11N40SISO	Ant	5190	0.65	0.69	94.20	---	---
		5230	0.65	0.70	92.86	---	---
11AC20SISO	Ant	5180	1.31	1.36	96.32	---	---
		5220	1.31	1.36	96.32	---	---
		5240	1.31	1.36	96.32	---	---
11AC40SISO	Ant	5190	0.65	0.70	92.86	---	---
		5230	0.65	0.70	92.86	---	---
11AC80SISO	Ant	5210	0.33	0.37	89.19	---	---





Test Graphs

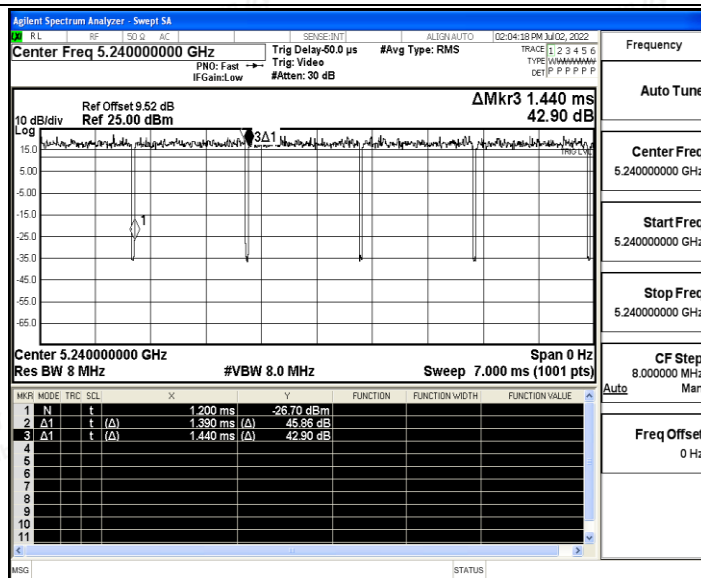


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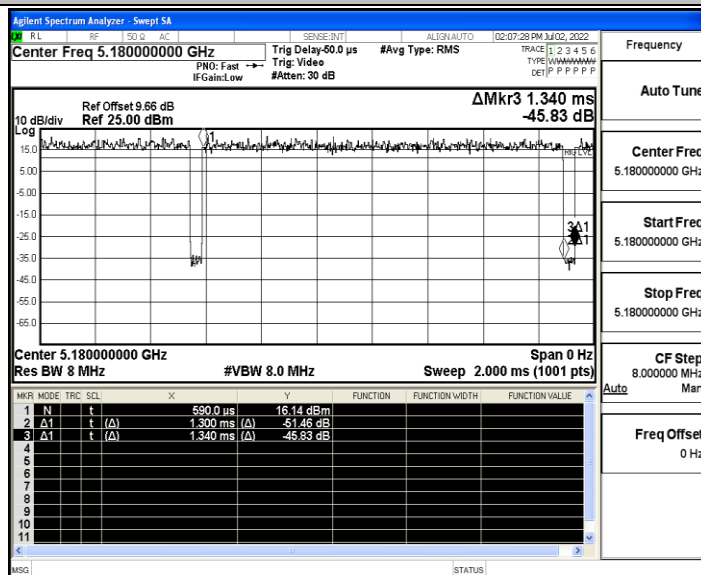
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11N20SISO_Ant_5180



11N20SISO_Ant_5220

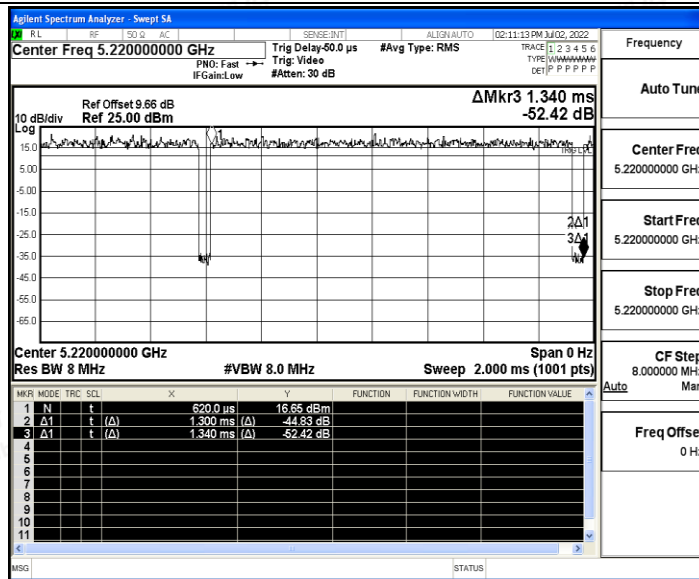


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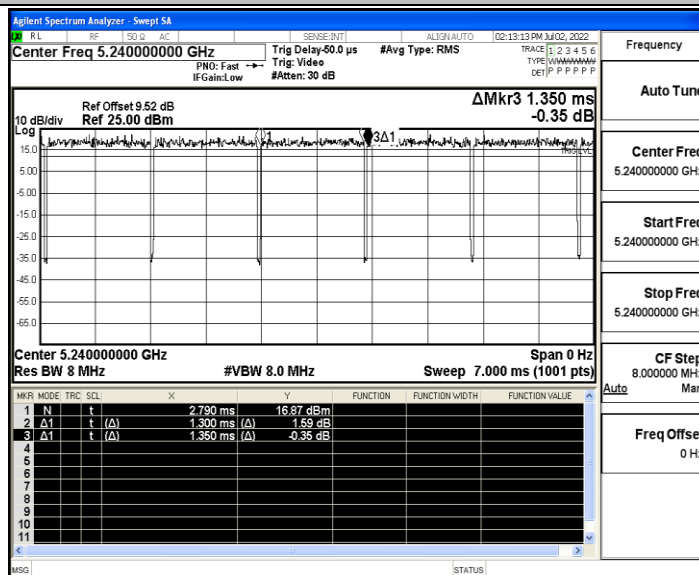
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11N20SISO_Ant_5240



11N40SISO_Ant_5190

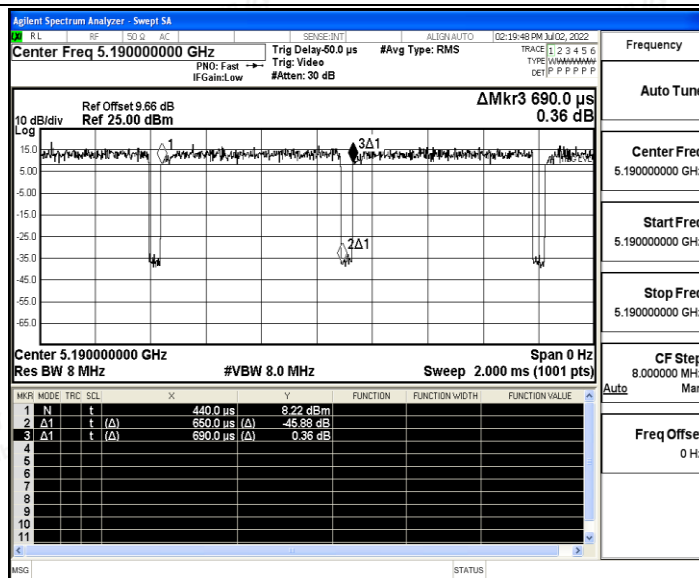


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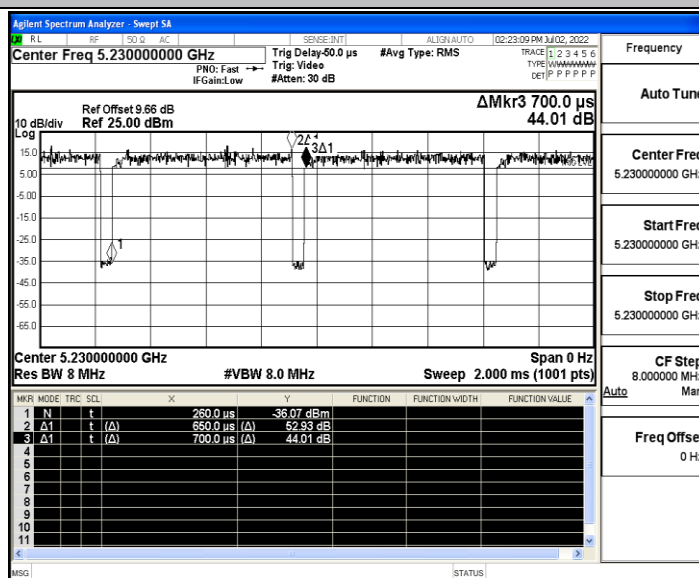
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11N40SISO_Ant_5230



11AC20SISO_Ant_5180

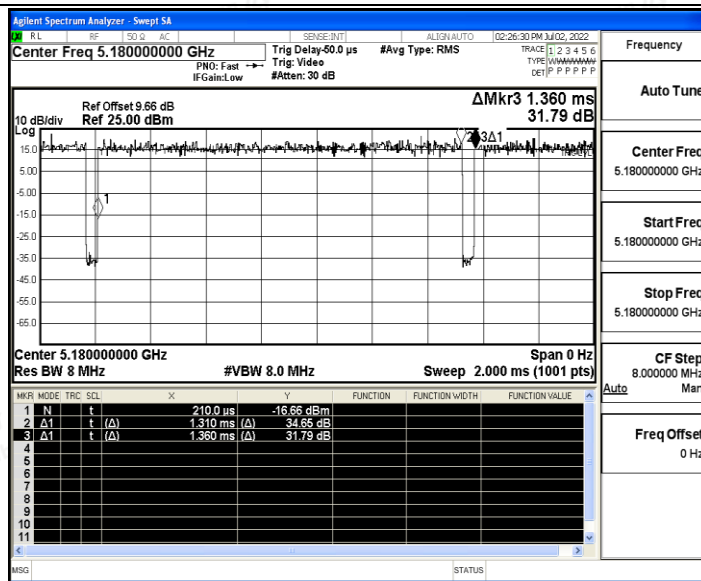


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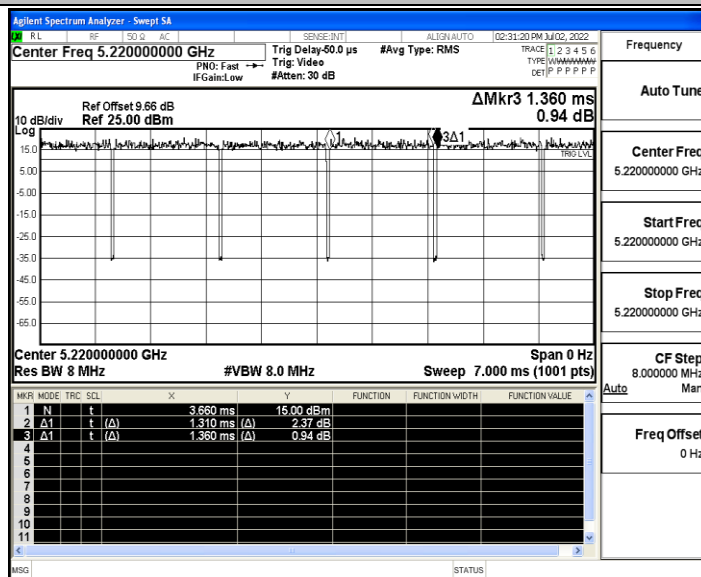
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11AC20SISO_Ant_5220



11AC20SISO_Ant_5240

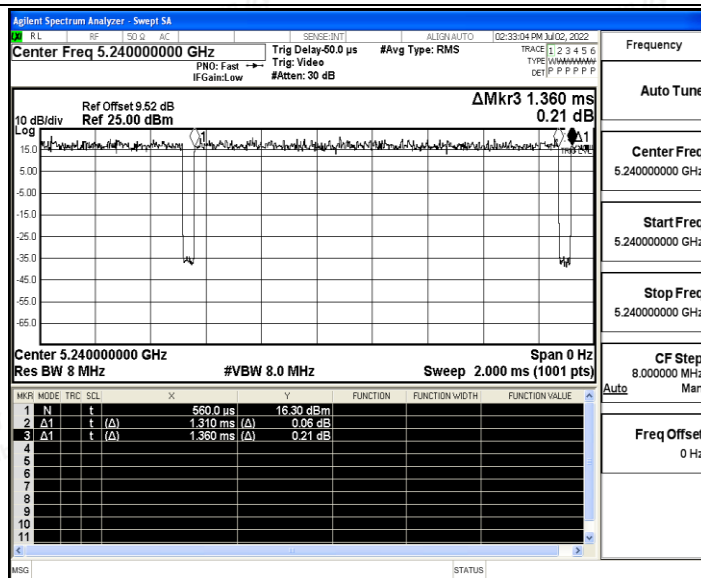


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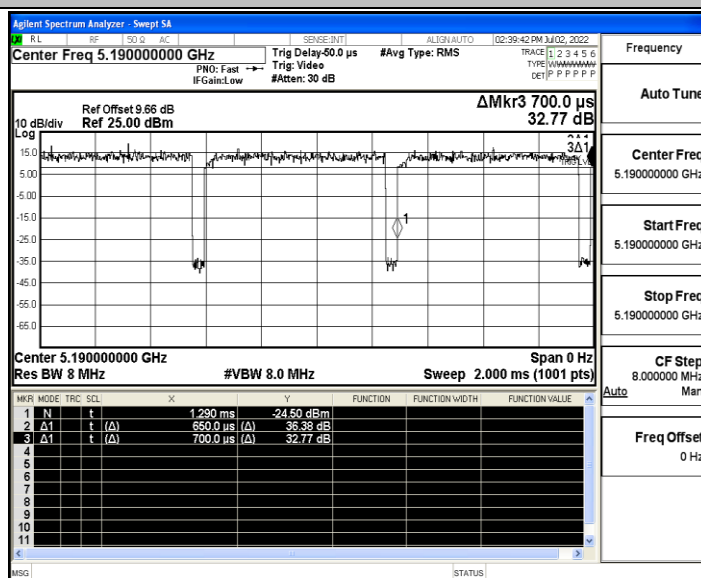
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11AC40SISO_Ant_5190



11AC40SISO_Ant_5230

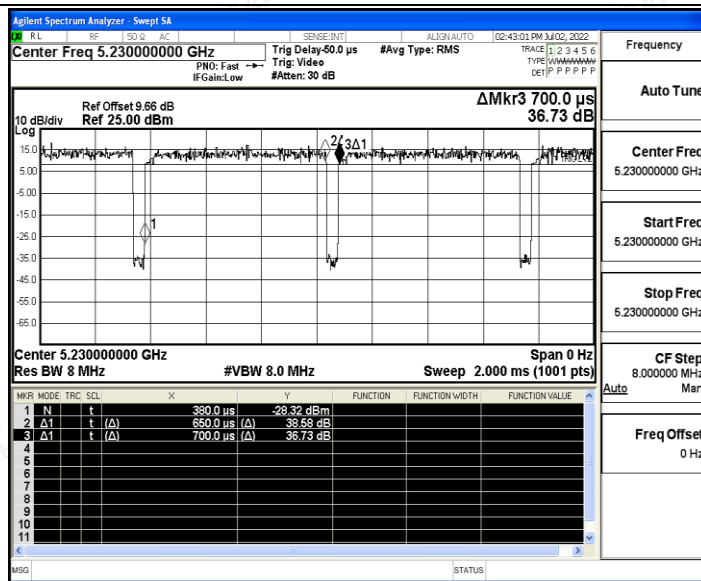


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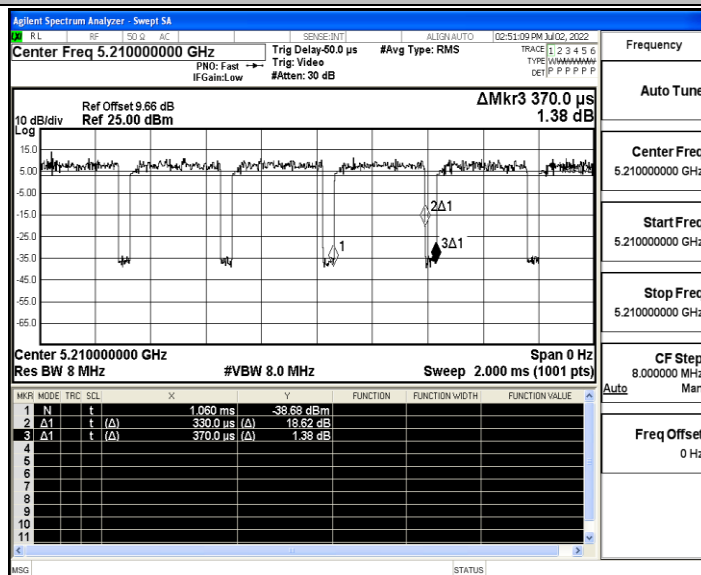
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11AC80SISO_Ant_5210



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