



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smart POS

Test Model: WIZARPOS UPT

Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan



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C.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.080	2407.960	2416.040	0.5	PASS
		2437	8.040	2433.000	2441.040	0.5	PASS
		2462	8.040	2457.960	2466.000	0.5	PASS
11G	Ant1	2412	15.440	2404.440	2419.880	0.5	PASS
		2437	15.320	2429.240	2444.560	0.5	PASS
		2462	15.080	2454.440	2469.520	0.5	PASS
11N20SISO	Ant1	2412	16.040	2404.440	2420.480	0.5	PASS
		2437	15.120	2429.440	2444.560	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS



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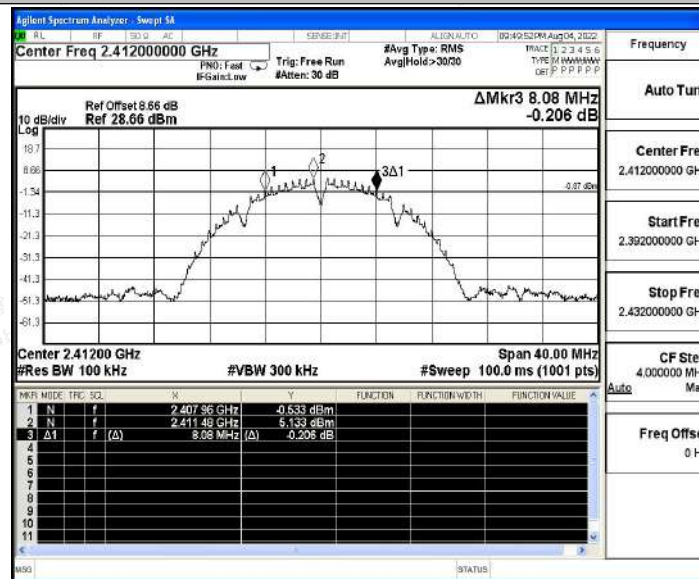
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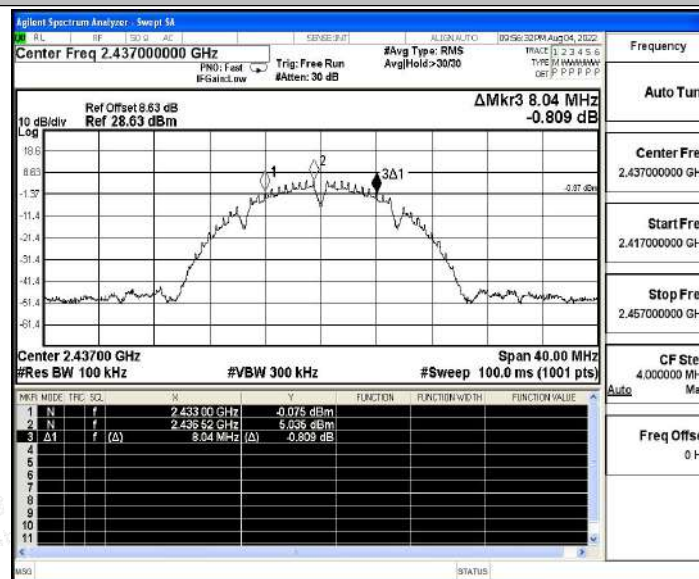


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

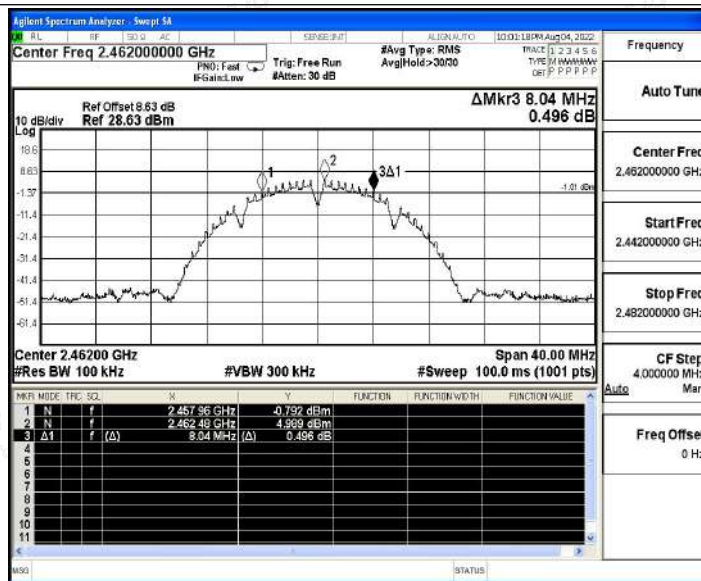


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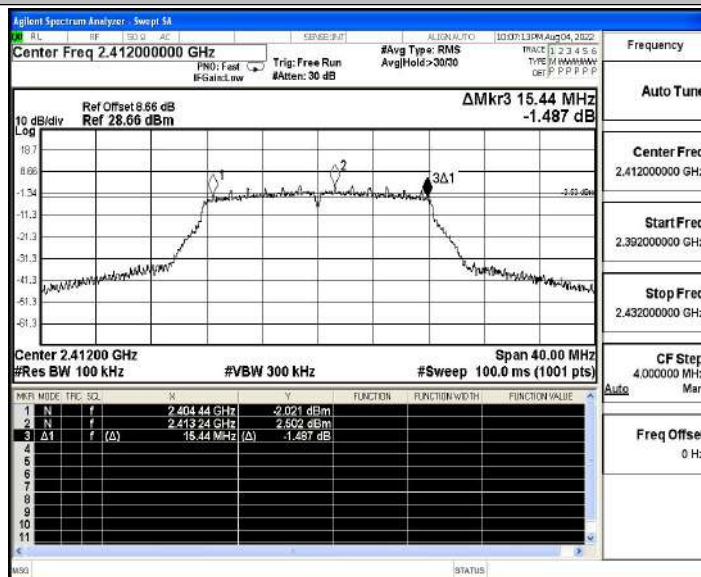
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11G_Ant1_2412



11G_Ant1_2437

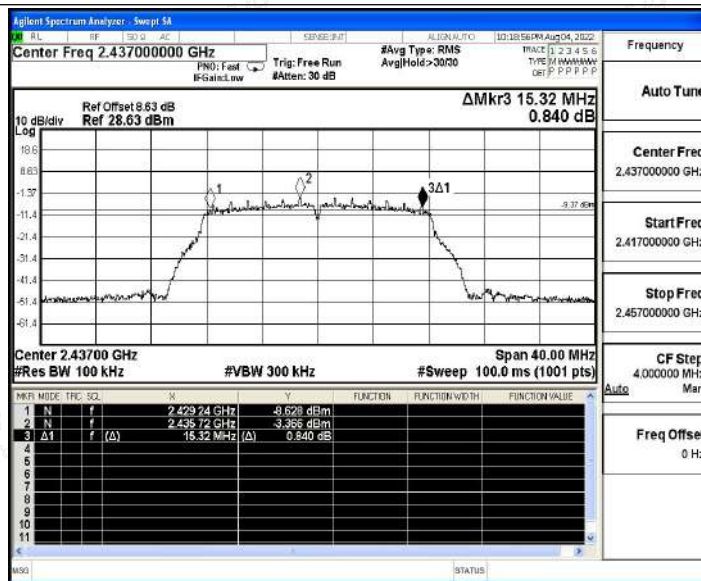


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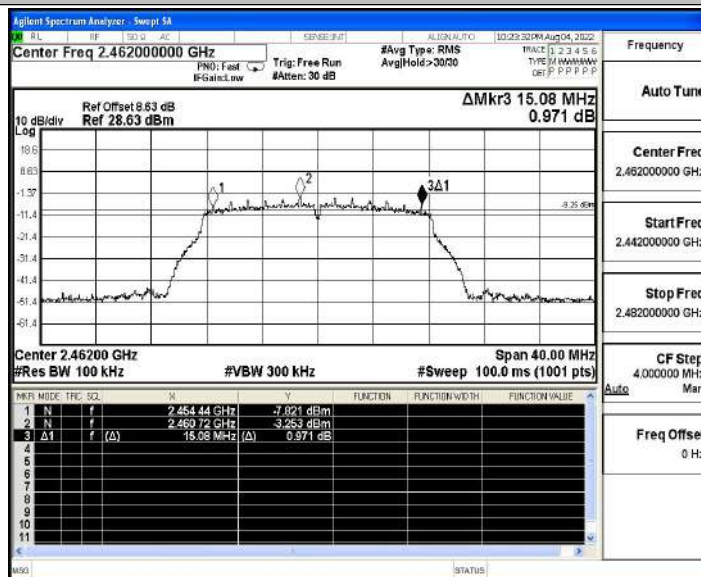
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11G_Ant1_2462



11N20SISO_Ant1_2412

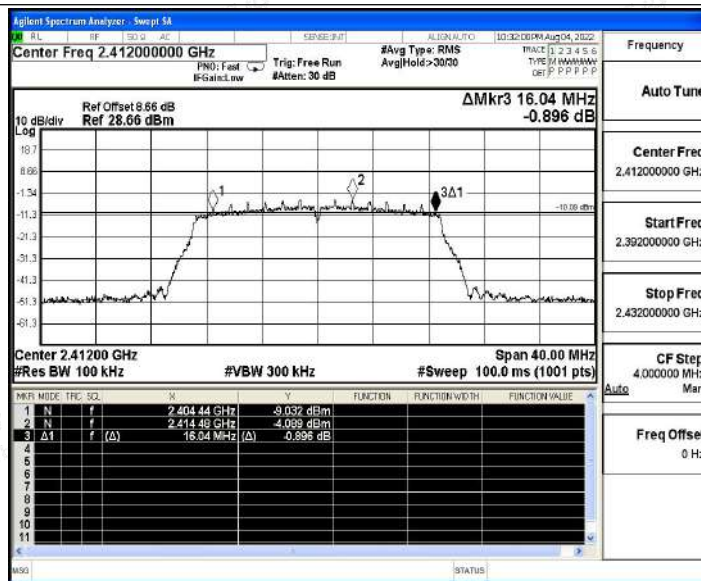


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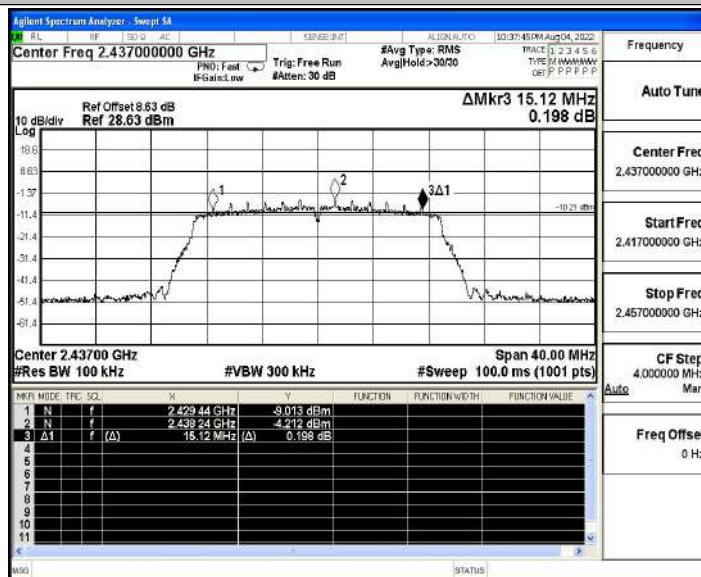
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

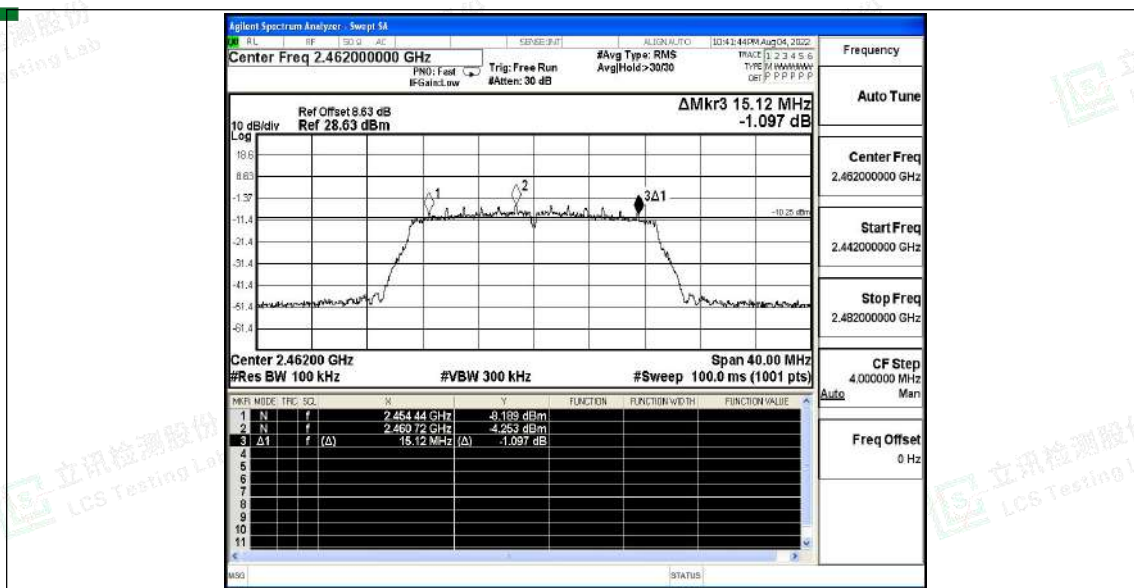


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C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.12	≤30.00	PASS
		2437	16.10	≤30.00	PASS
		2462	15.90	≤30.00	PASS
11G	Ant1	2412	15.63	≤30.00	PASS
		2437	15.44	≤30.00	PASS
		2462	15.36	≤30.00	PASS
11N20SISO	Ant1	2412	14.66	≤30.00	PASS
		2437	14.41	≤30.00	PASS
		2462	14.30	≤30.00	PASS



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C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.08	≤8.00	PASS
		2437	-9.99	≤8.00	PASS
		2462	-9.03	≤8.00	PASS
11G	Ant1	2412	-17.57	≤8.00	PASS
		2437	-17.31	≤8.00	PASS
		2462	-18.18	≤8.00	PASS
11N20SISO	Ant1	2412	-18.96	≤8.00	PASS
		2437	-19.27	≤8.00	PASS
		2462	-17.91	≤8.00	PASS



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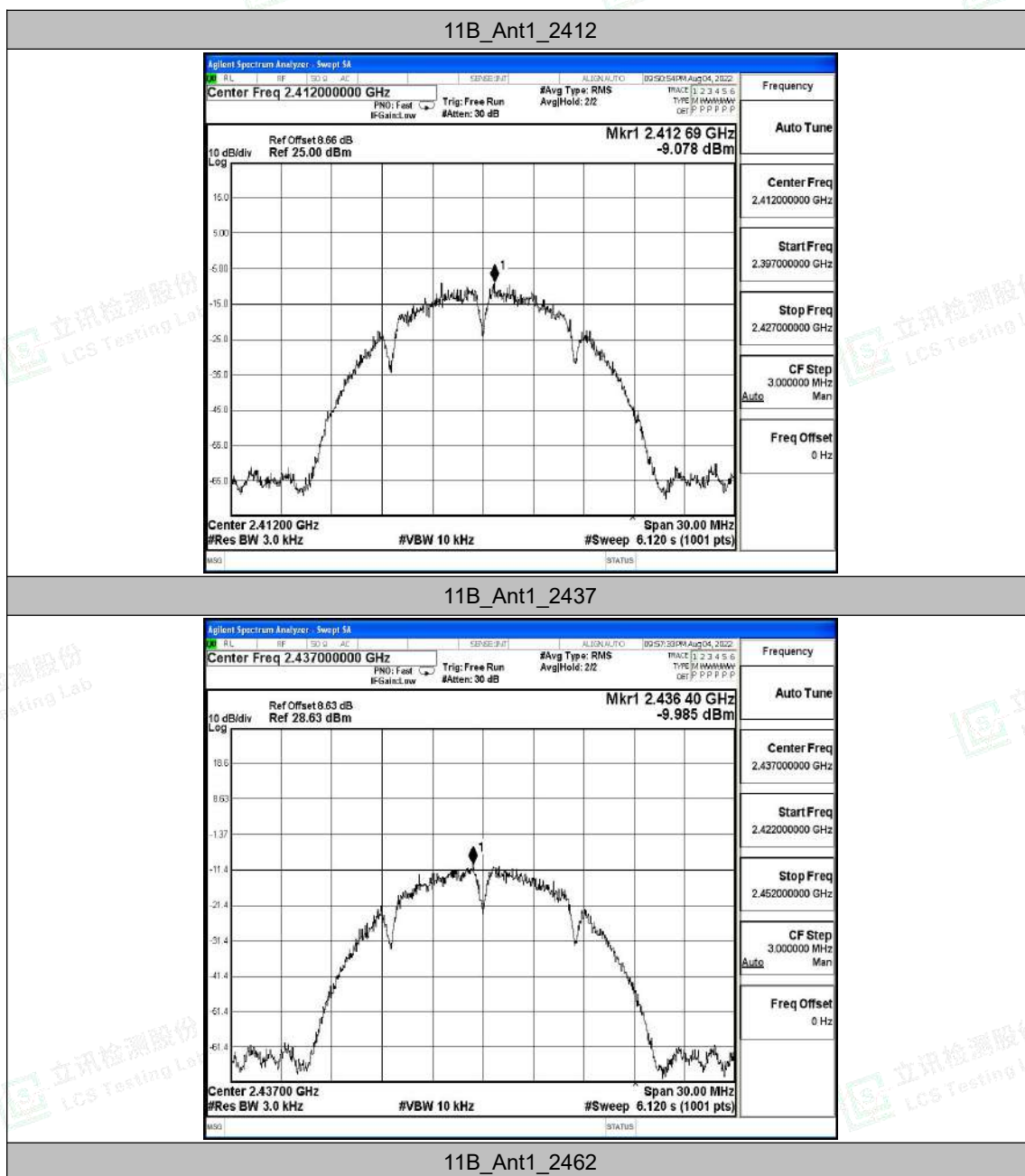
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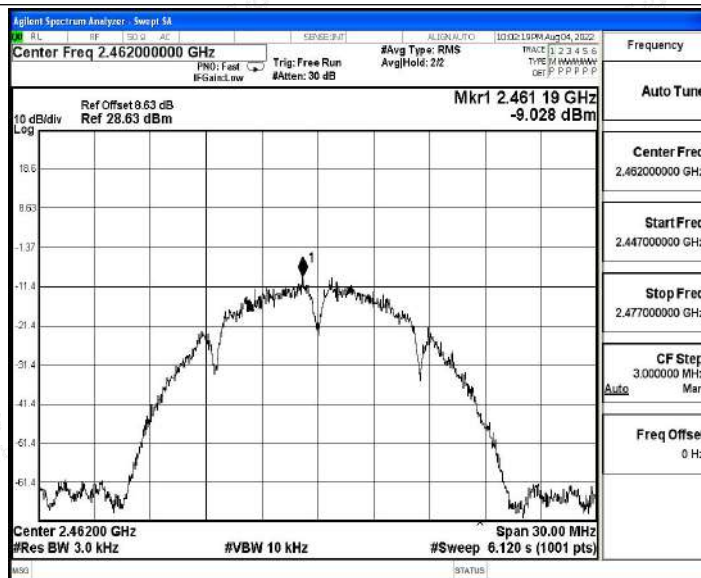
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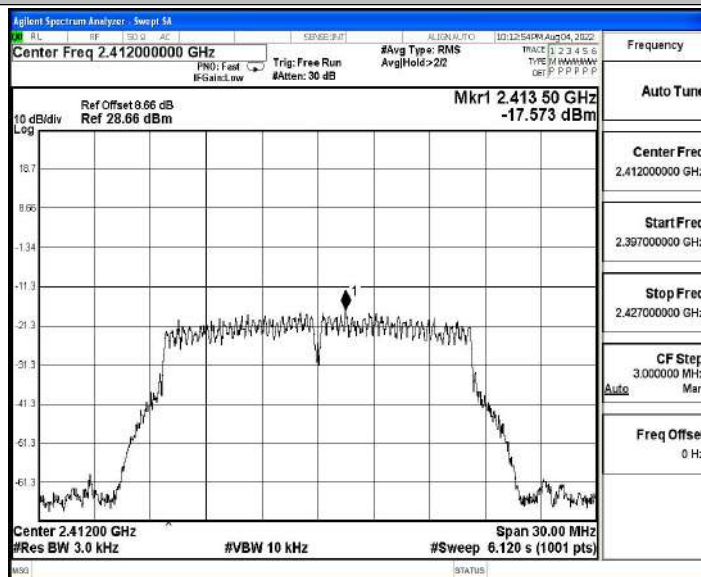


Test Graphs





11G_Ant1_2412



11G_Ant1_2437

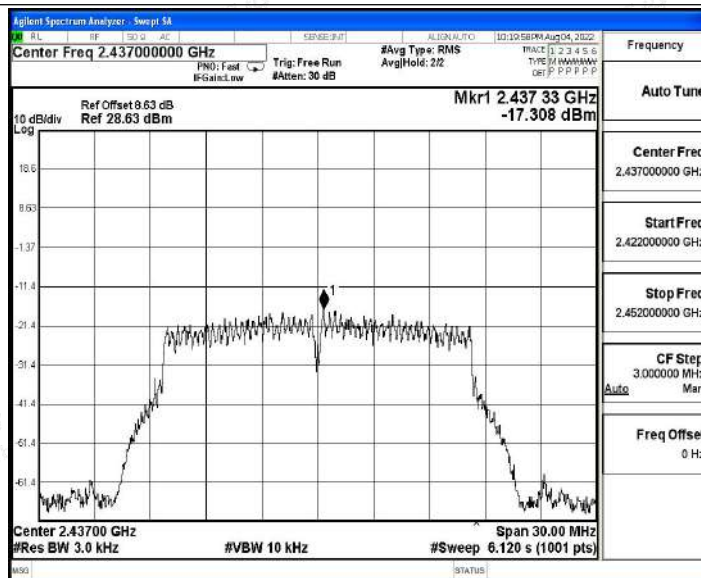


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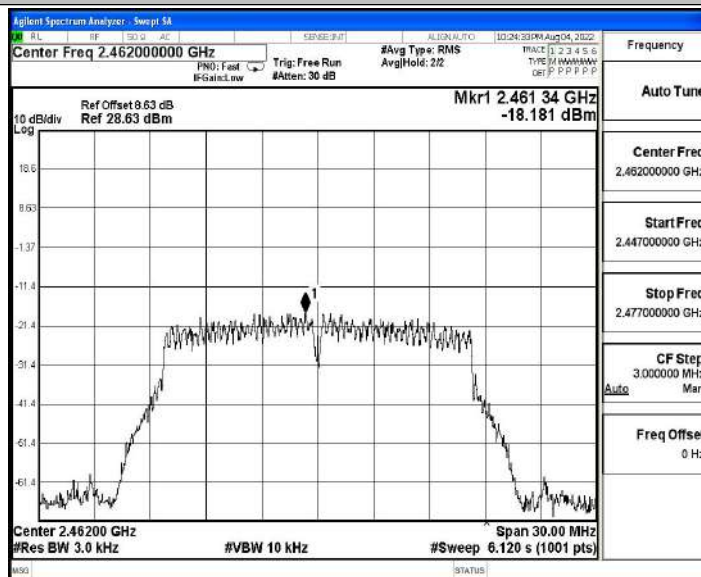
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11G_Ant1_2462



11N20SISO_Ant1_2412

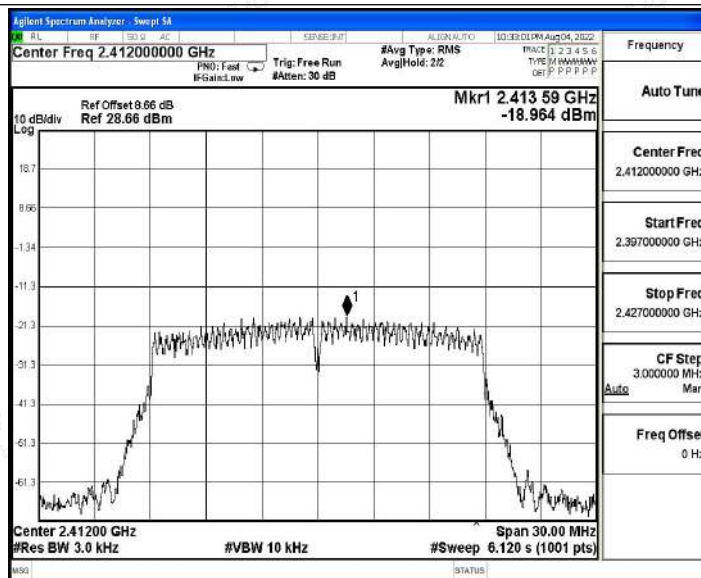


Shenzhen LCS Compliance Testing Laboratory Ltd.

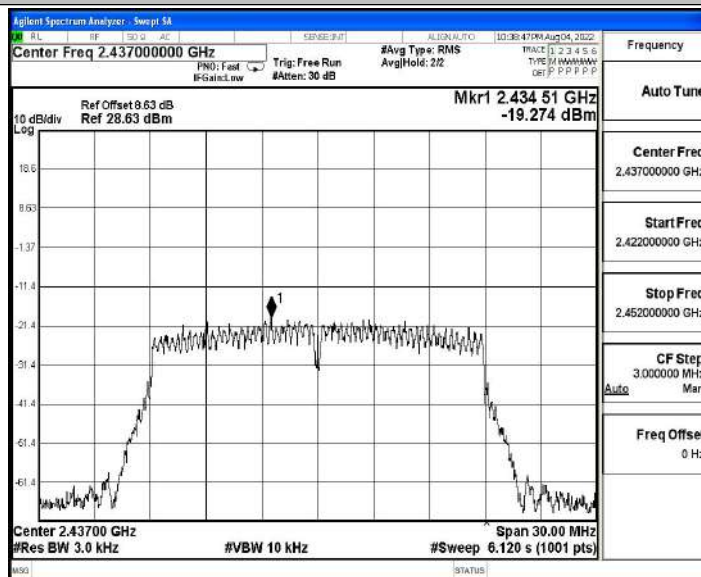
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

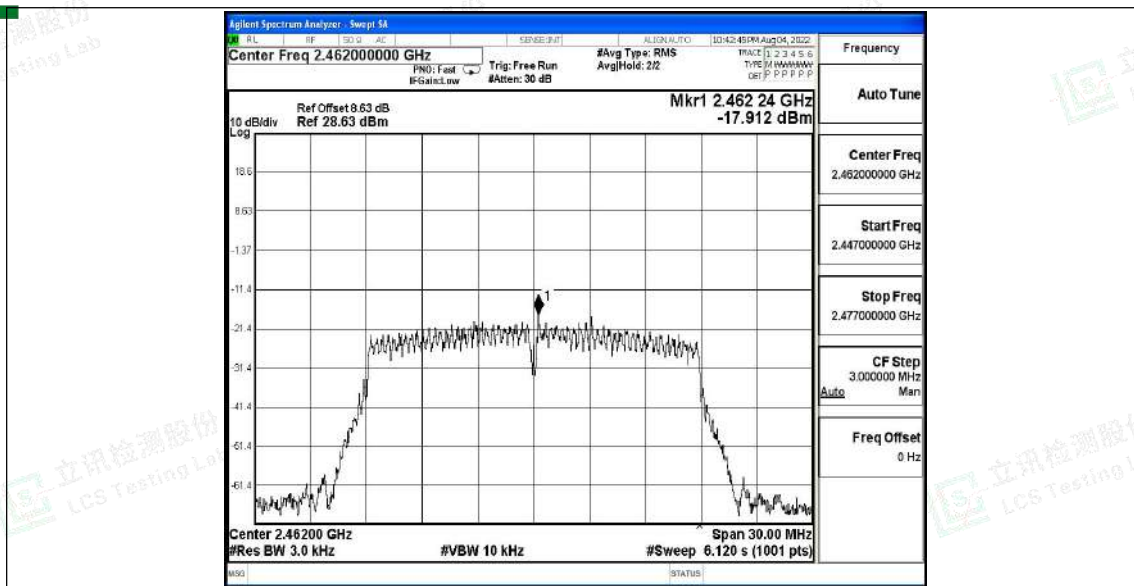


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C.4 Band edge measurements

Test Result

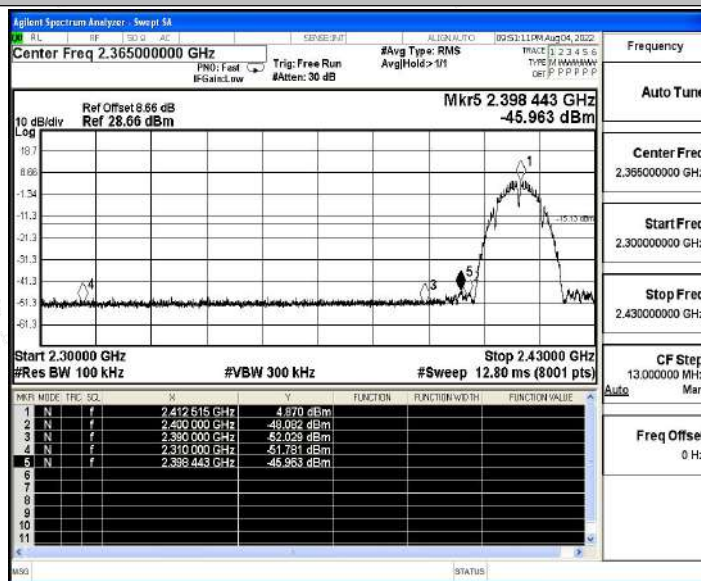
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.87	-45.96	≤-15.13	PASS
		High	2462	4.82	-46.67	≤-15.18	PASS
11G	Ant1	Low	2412	2.77	-35.73	≤-17.23	PASS
		High	2462	-3.10	-47.92	≤-23.1	PASS
11N20SISO	Ant1	Low	2412	-3.35	-47.53	≤-23.35	PASS
		High	2462	-3.90	-47.55	≤-23.9	PASS



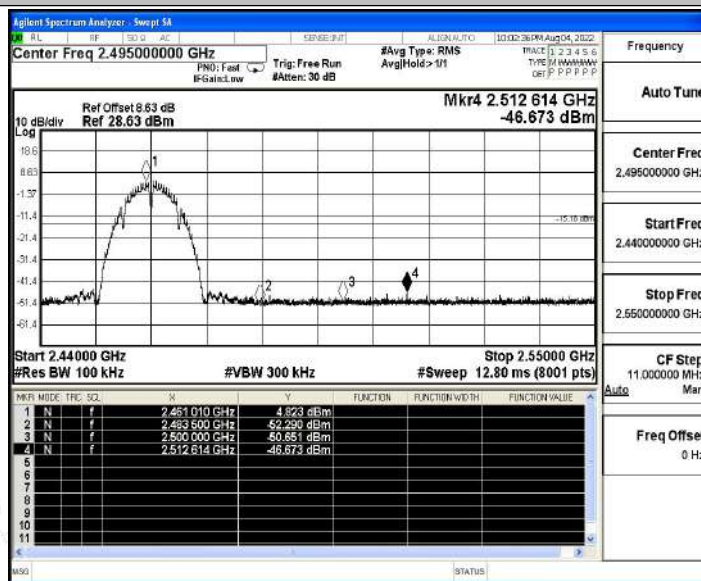


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

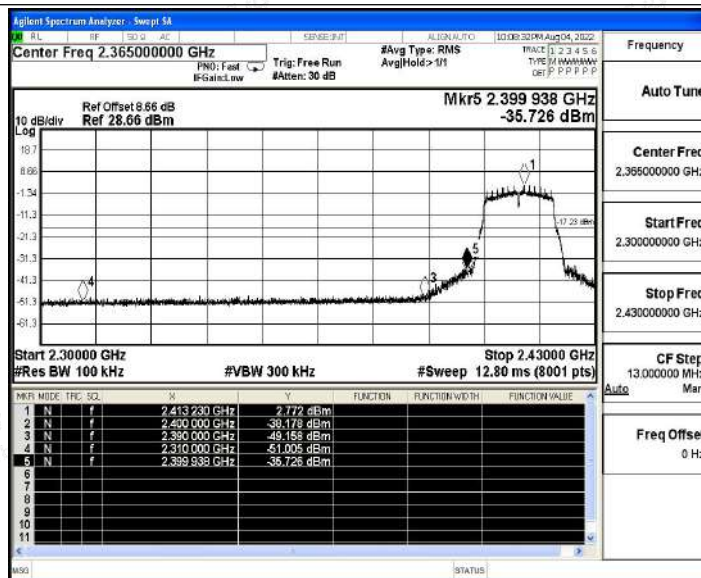


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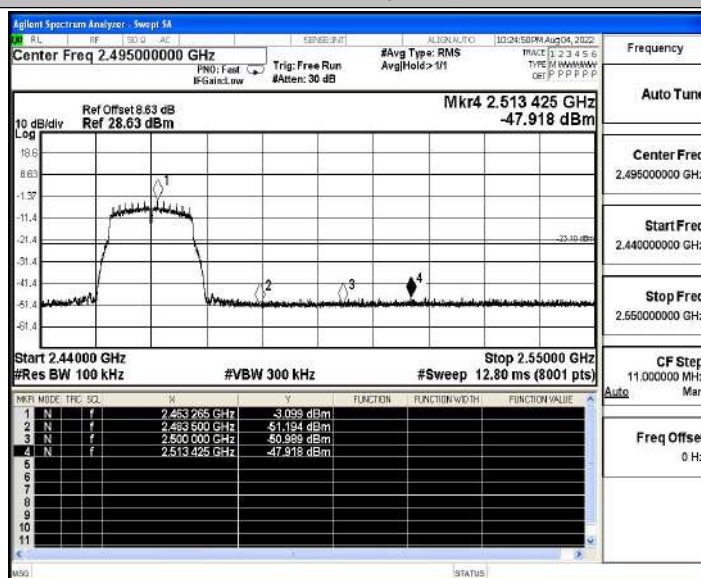
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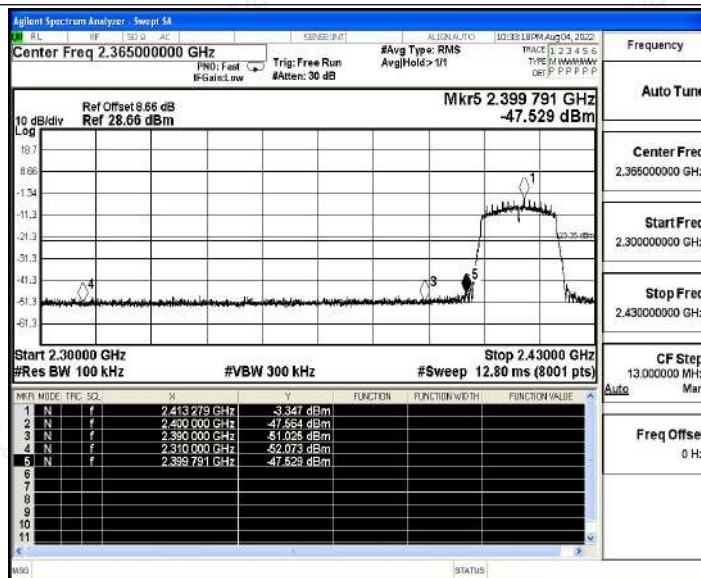


11G_Ant1_High_2462

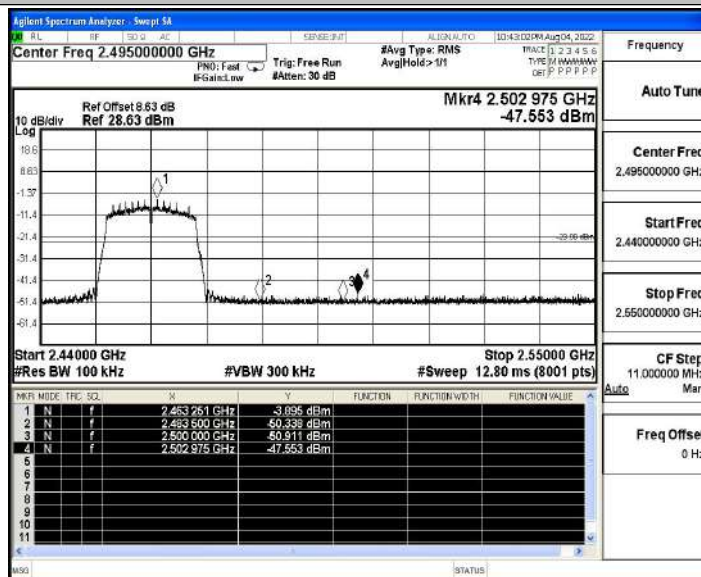


11N20SISO_Ant1_Low_2412





11N20SISO_Ant1_High_2462





C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.28	5.28	---	PASS
			30~1000	5.28	-47.58	≤-14.72	PASS
			1000~26500	5.28	-45.87	≤-14.72	PASS
		2437	Reference	4.87	4.87	---	PASS
			30~1000	4.87	-48.29	≤-15.13	PASS
			1000~26500	4.87	-46.35	≤-15.13	PASS
		2462	Reference	5.00	5.00	---	PASS
			30~1000	5.00	-48.75	≤-15	PASS
			1000~26500	5.00	-45.9	≤-15	PASS
11G	Ant1	2412	Reference	-2.50	-2.50	---	PASS
			30~1000	-2.50	-48.84	≤-22.5	PASS
			1000~26500	-2.50	-45.61	≤-22.5	PASS
		2437	Reference	-3.06	-3.06	---	PASS
			30~1000	-3.06	-47.25	≤-23.06	PASS
			1000~26500	-3.06	-46	≤-23.06	PASS
		2462	Reference	-3.20	-3.20	---	PASS
			30~1000	-3.20	-47.79	≤-23.2	PASS
			1000~26500	-3.20	-45.73	≤-23.2	PASS
11N20SISO	Ant1	2412	Reference	-3.55	-3.55	---	PASS
			30~1000	-3.55	-47.26	≤-23.55	PASS
			1000~26500	-3.55	-44.92	≤-23.55	PASS
		2437	Reference	-3.81	-3.81	---	PASS
			30~1000	-3.81	-48.67	≤-23.81	PASS
			1000~26500	-3.81	-45.93	≤-23.81	PASS
		2462	Reference	-4.55	-4.55	---	PASS
			30~1000	-4.55	-48.49	≤-24.55	PASS
			1000~26500	-4.55	-46.28	≤-24.55	PASS



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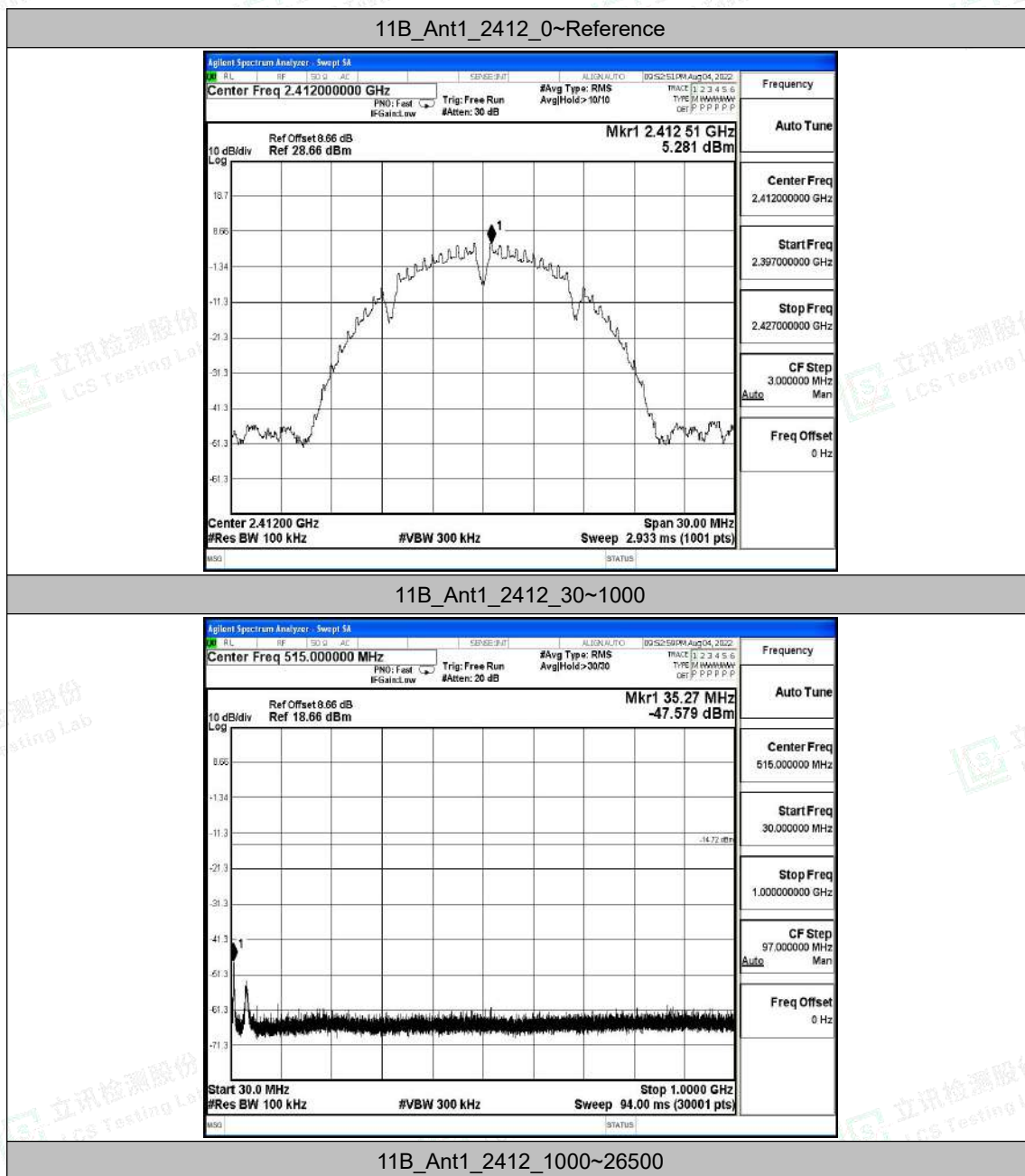
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Test Graphs

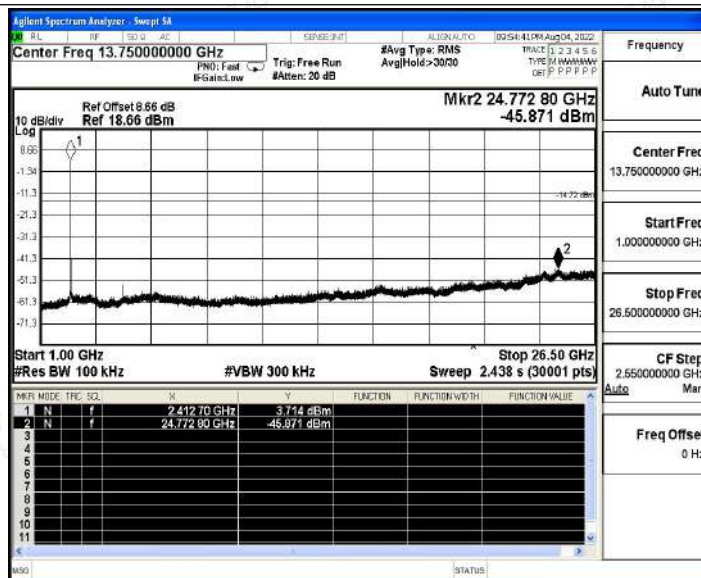


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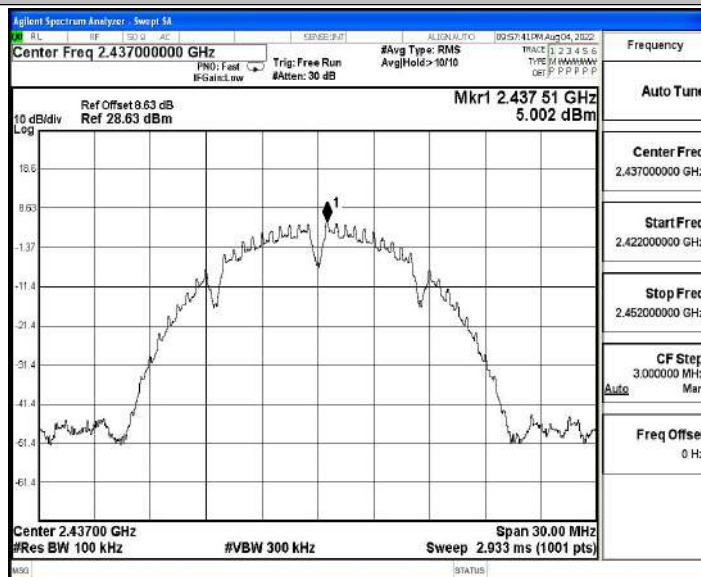
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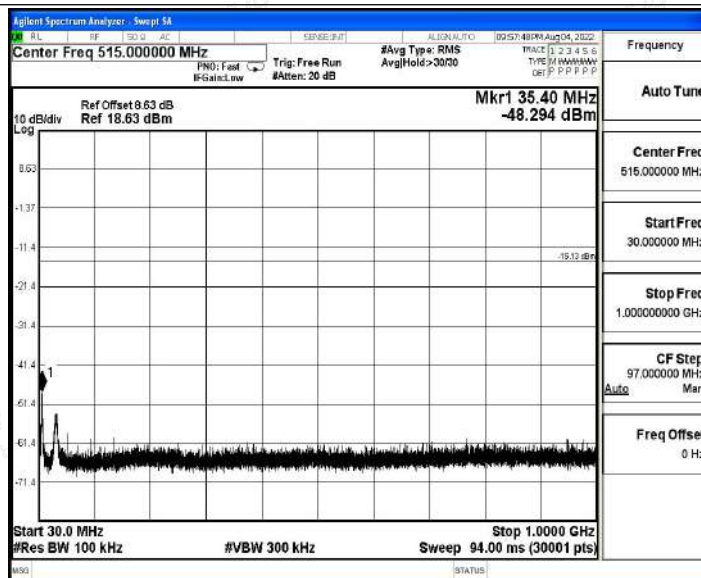


11B_Ant1_2437_0~Reference

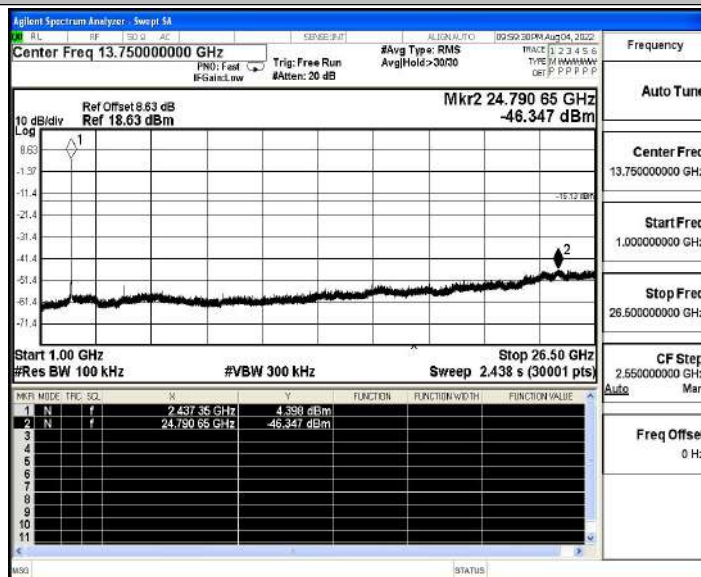


11B_Ant1_2437_30~1000



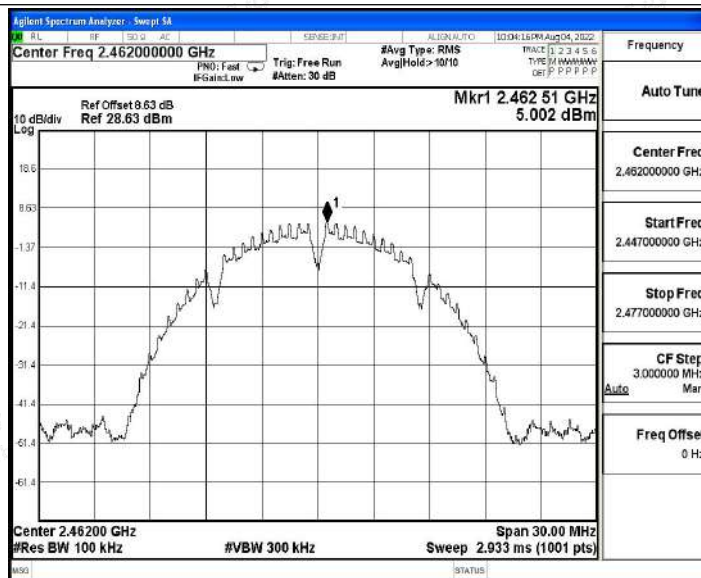


11B_Ant1_2437_1000~26500

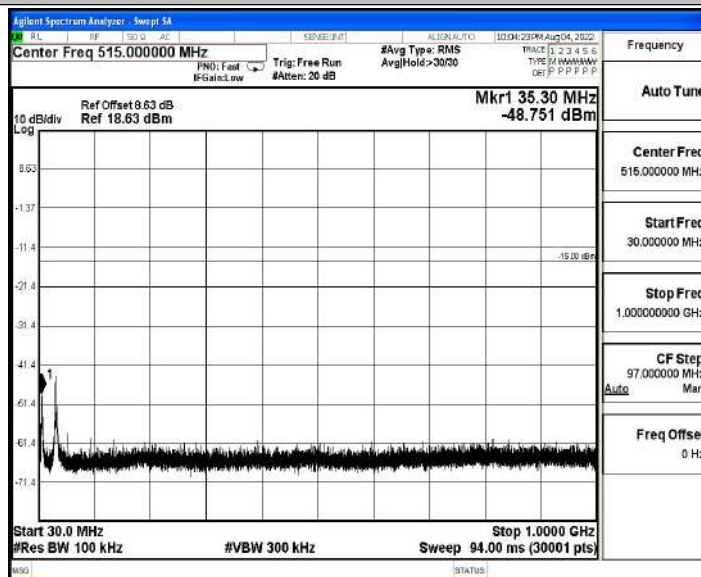


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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

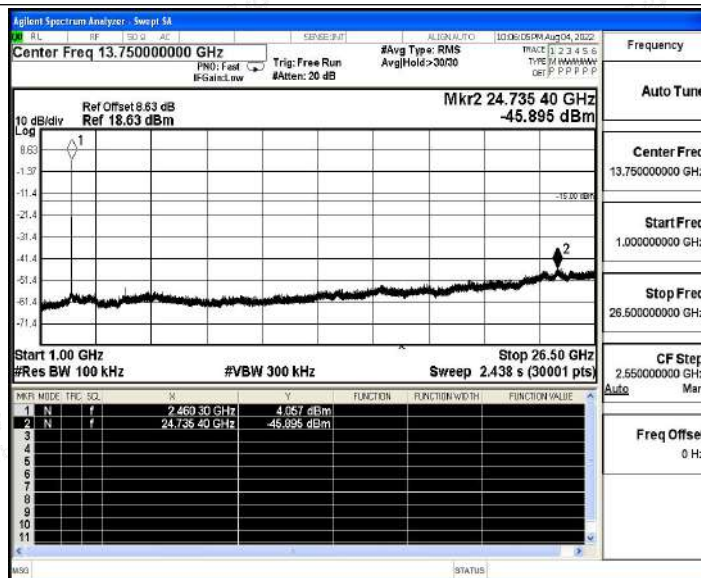


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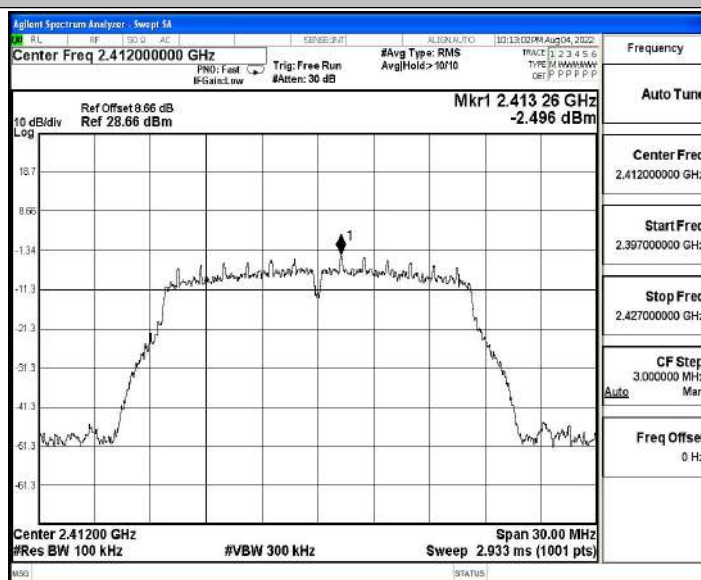
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11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

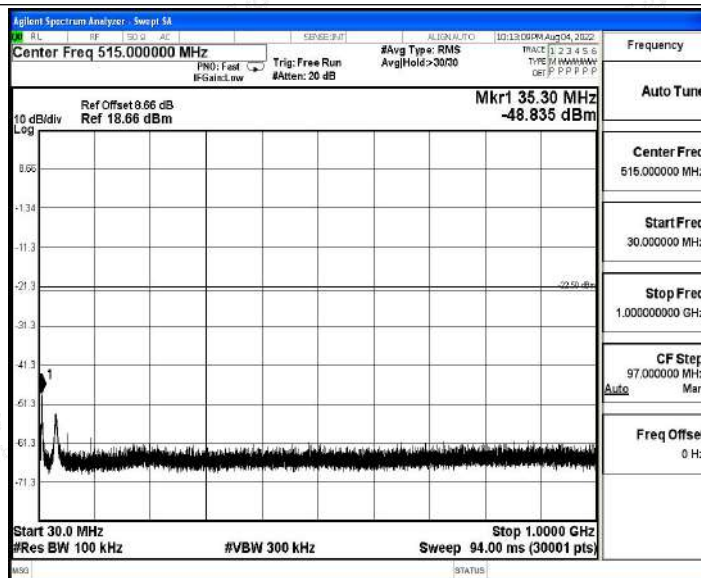


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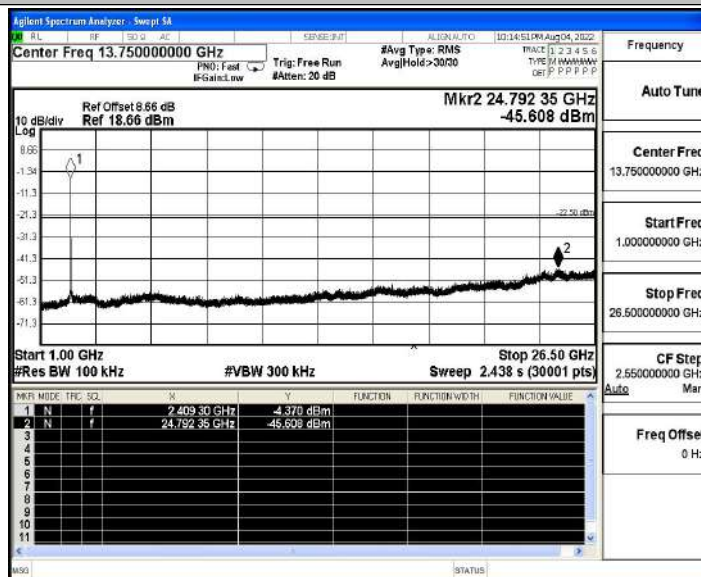
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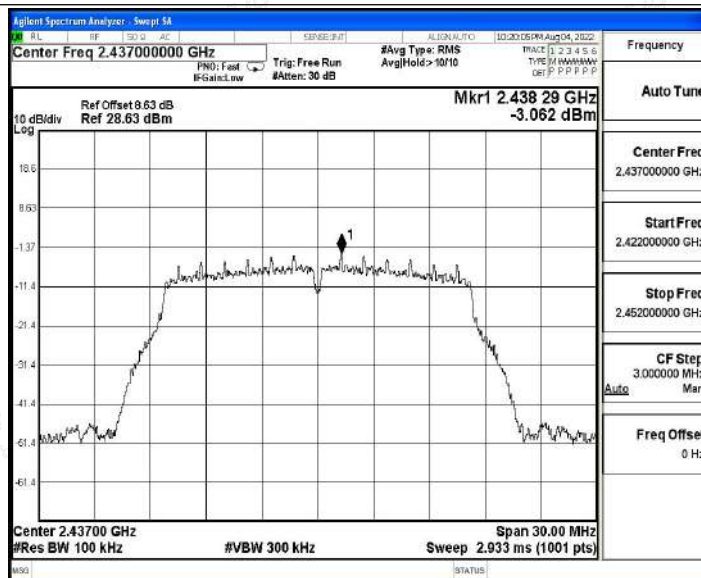


11G_Ant1_2412_1000~26500

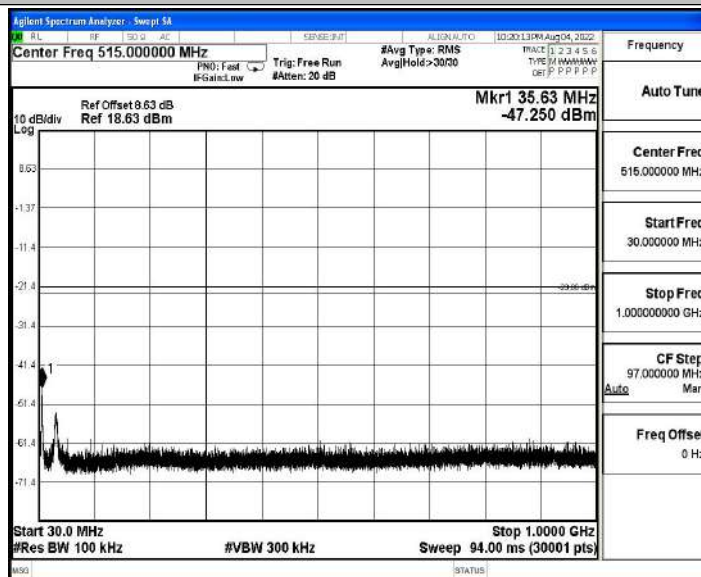


11G_Ant1_2437_0~Reference





11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

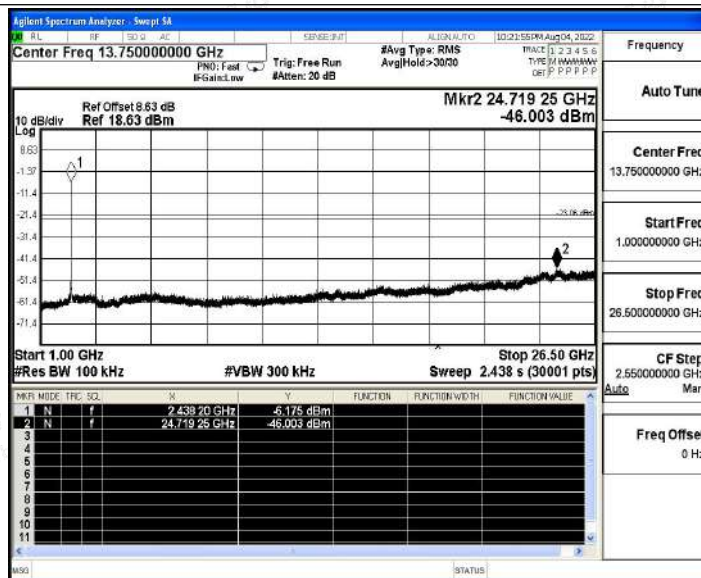


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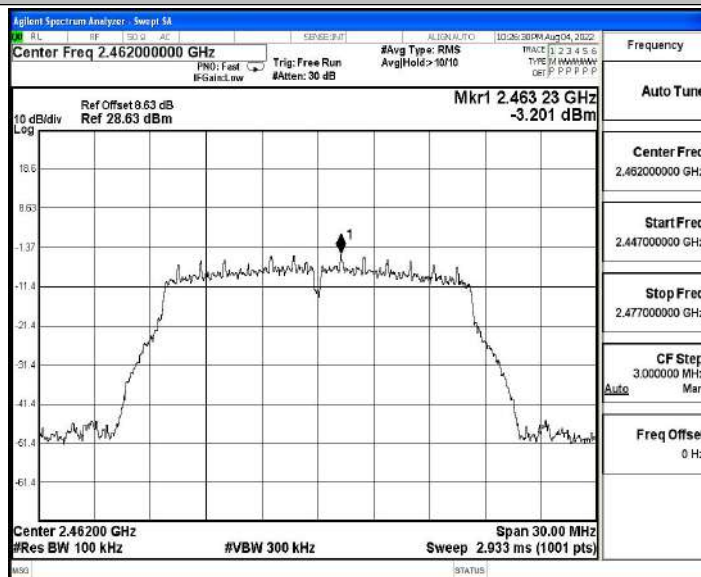
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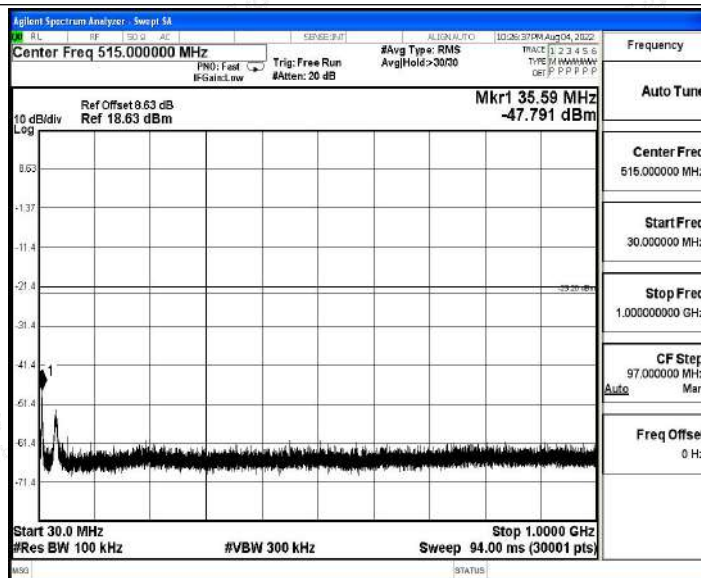


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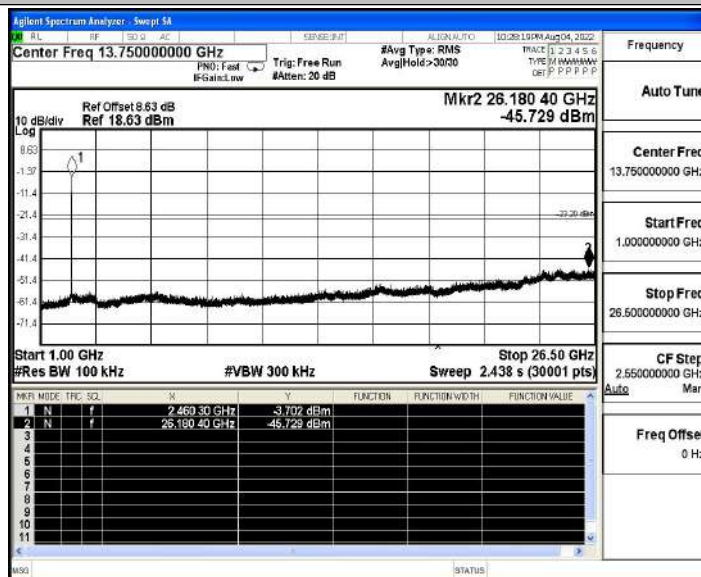


11G_Ant1_2462_30~1000



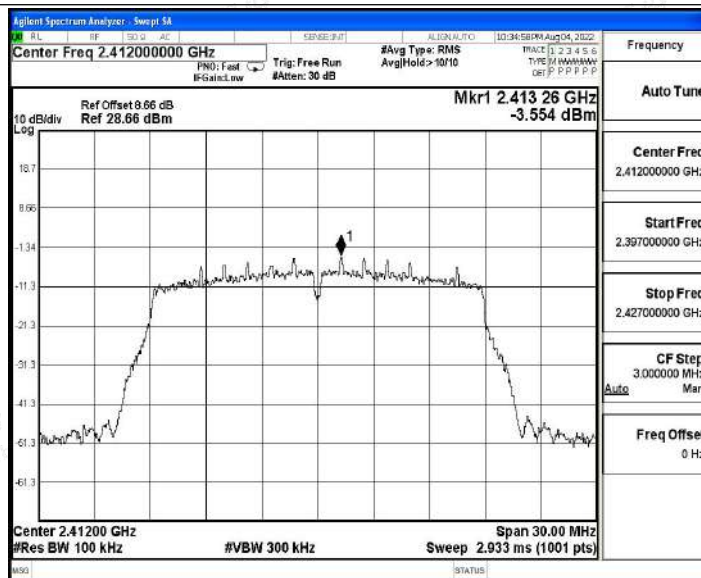


11G_Ant1_2462_1000~26500

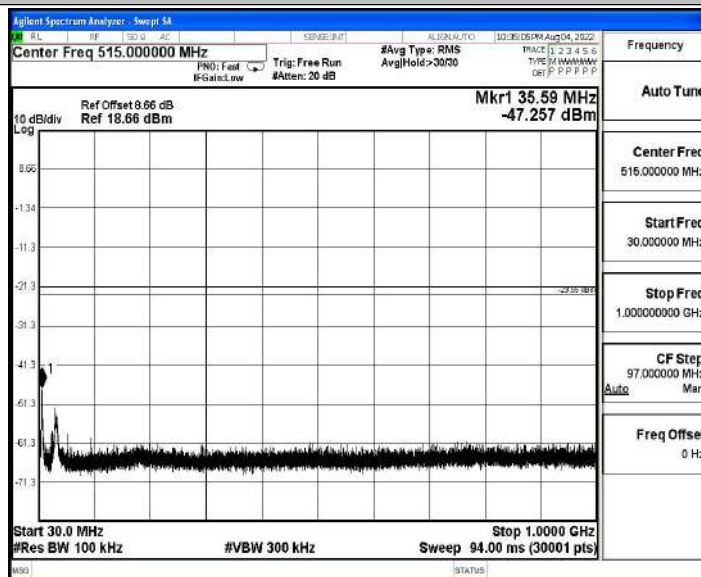


11N20SISO_Ant1_2412_0~Reference





11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500

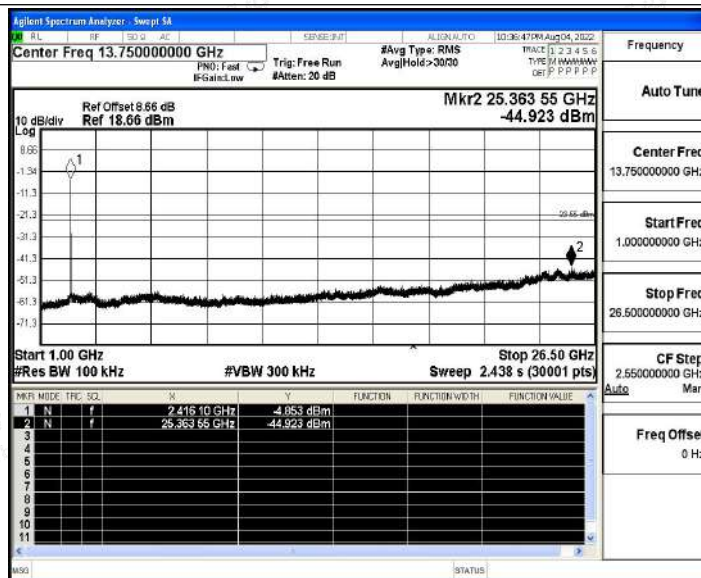


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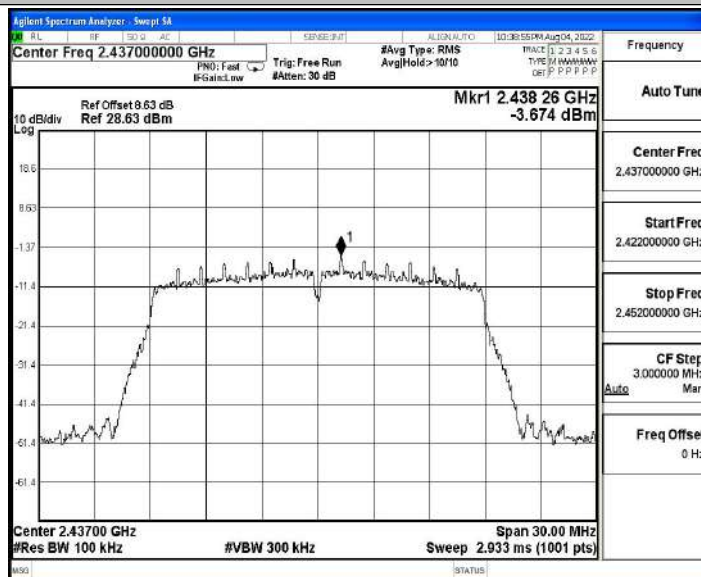
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11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

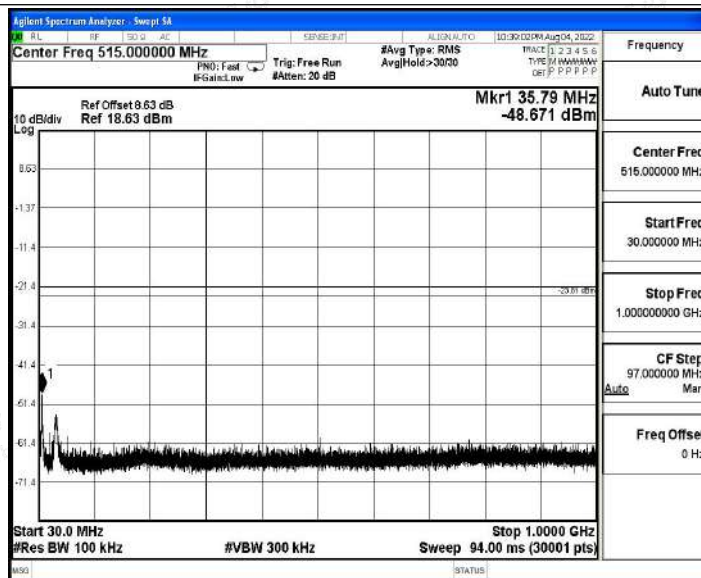


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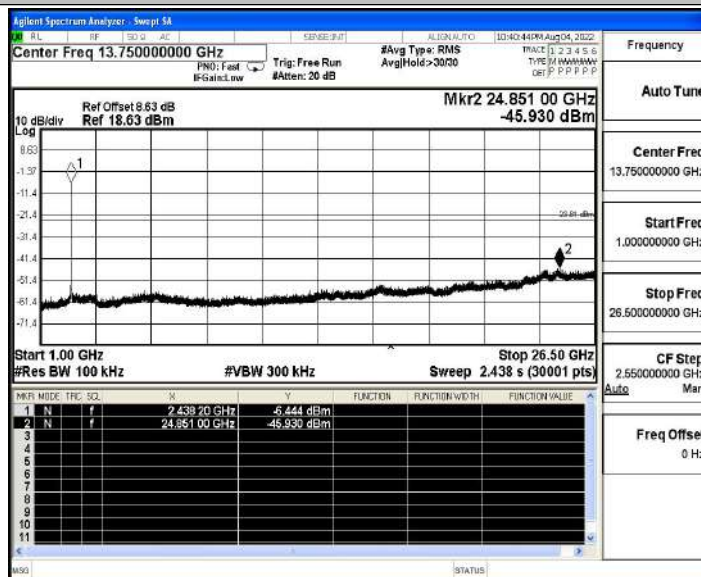
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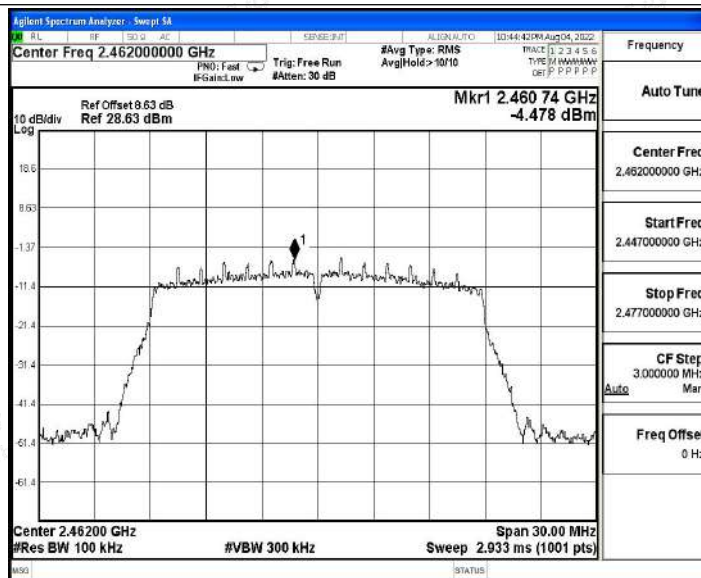


11N20SISO_Ant1_2437_1000~26500

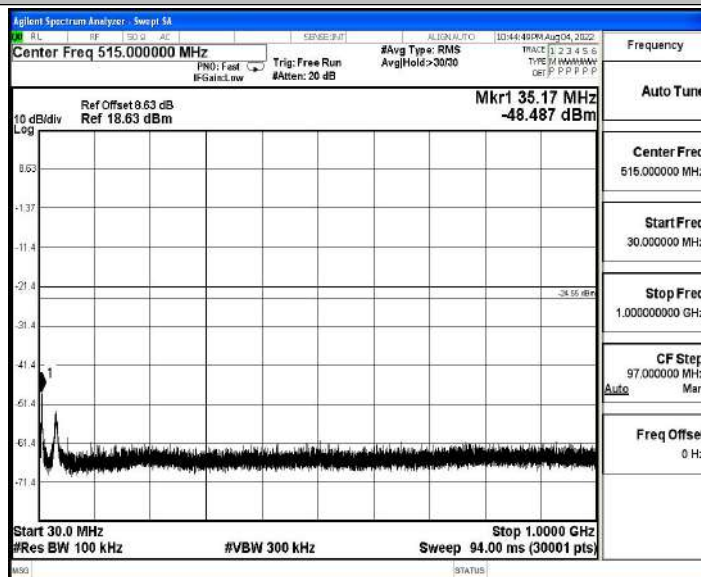


11N20SISO_Ant1_2462_0~Reference





11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500

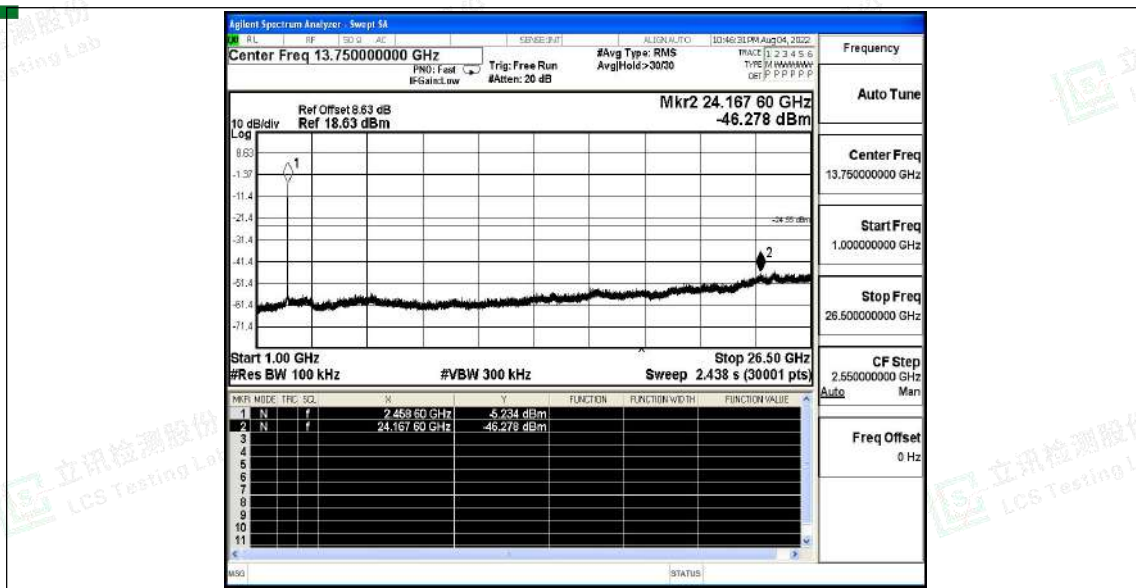


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C.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]	Verdict
11B	Ant1	2412	8.38	8.42	99.52	---	---
		2437	8.39	8.43	99.53	---	---
		2462	8.39	8.42	99.64	---	---
11G	Ant1	2412	1.39	1.44	96.53	0.72	---
		2437	1.40	1.44	97.22	0.72	---
		2462	1.39	1.43	97.20	0.72	---
11N20SISO	Ant1	2412	1.30	1.34	97.01	0.77	---
		2437	1.30	1.35	96.30	0.77	---
		2462	1.30	1.35	96.30	0.77	---





Test Graphs

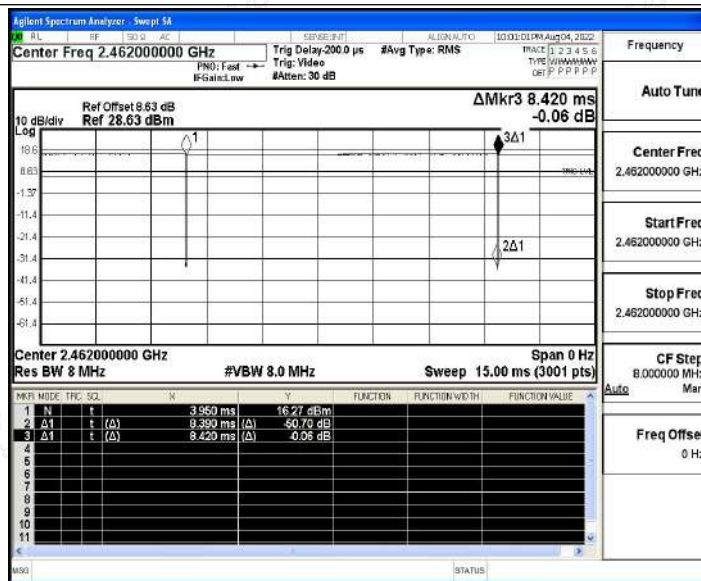


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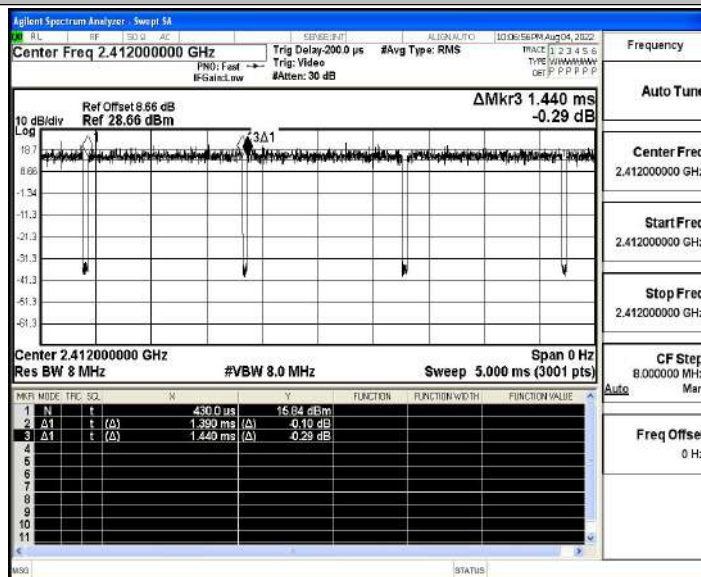
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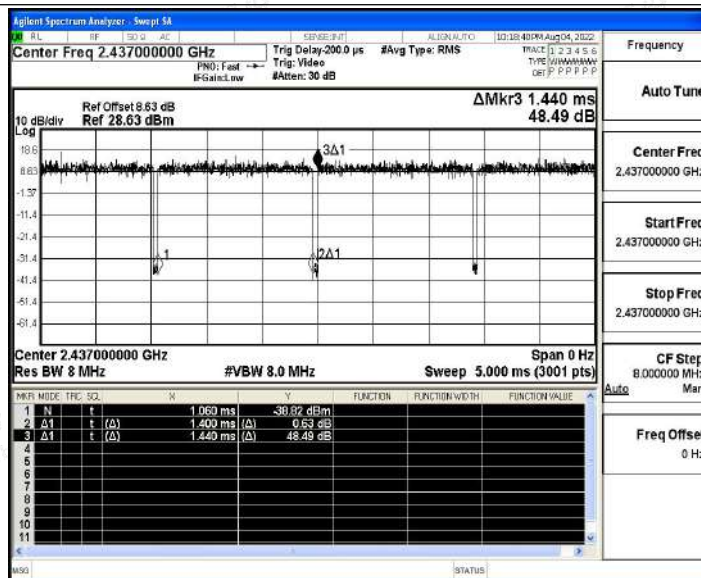


11G_Ant1_2412

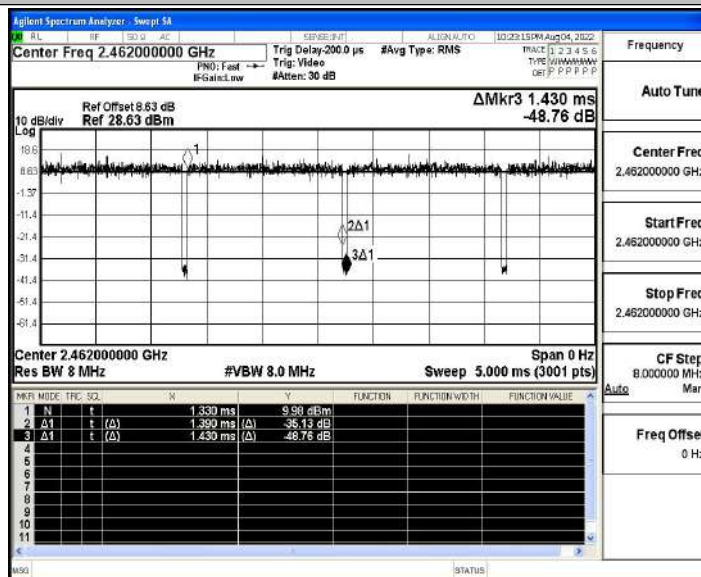


11G_Ant1_2437



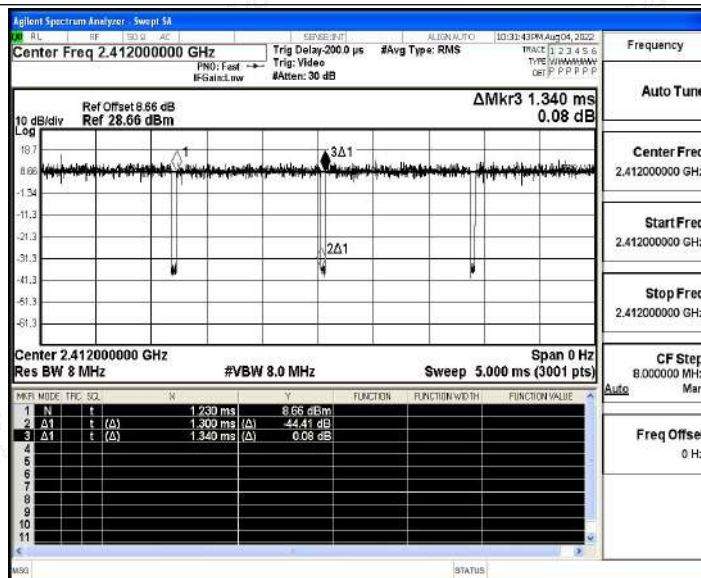


11G_Ant1_2462

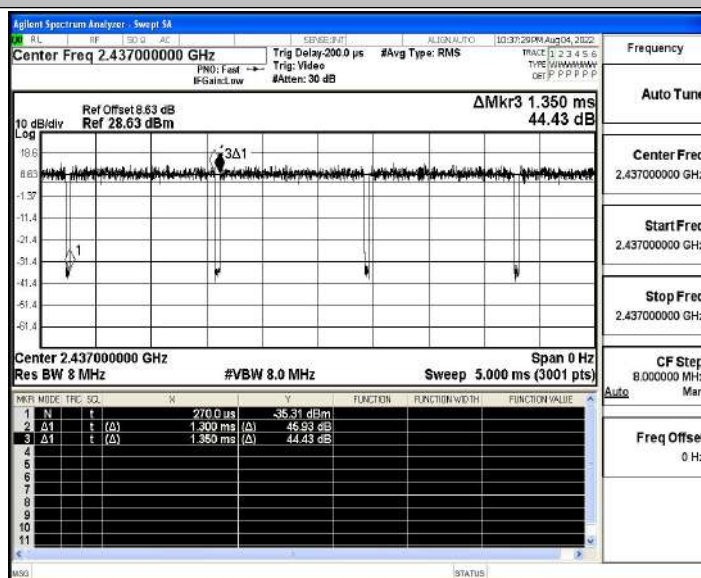


11N20SISO_Ant1_2412





11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

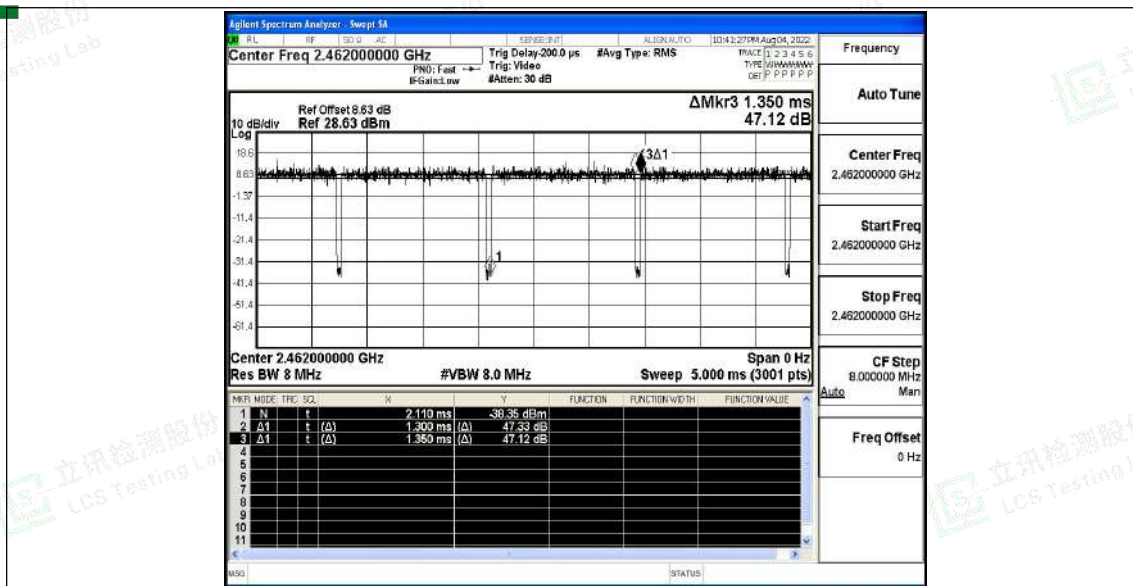


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C.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-57.57	≤-41.20	37.63	≤54	PASS
				AV	2389.960	-55.17	≤-41.20	40.03	≤54	PASS
				AV	2390.000	-55.17	≤-41.20	40.03	≤54	PASS
				Peak	2310.000	-46.93	≤-21.20	48.27	≤74	PASS
				Peak	2381.770	-43.59	≤-21.20	51.61	≤74	PASS
				Peak	2390.000	-44.5	≤-21.20	50.70	≤74	PASS
		High	2462	AV	2483.500	-55.5	≤-41.20	39.70	≤54	PASS
				AV	2486.200	-55.45	≤-41.20	39.75	≤54	PASS
				AV	2500.000	-56.14	≤-41.20	39.06	≤54	PASS
				Peak	2483.500	-44.84	≤-21.20	50.36	≤74	PASS
				Peak	2492.580	-43.49	≤-21.20	51.71	≤74	PASS
				Peak	2500.000	-45.72	≤-21.20	49.48	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-55.87	≤-41.20	39.33	≤54	PASS
				AV	2389.960	-48.6	≤-41.20	46.60	≤54	PASS
				AV	2390.000	-48.6	≤-41.20	46.60	≤54	PASS
				Peak	2310.000	-45.75	≤-21.20	49.45	≤74	PASS
				Peak	2389.830	-31.1	≤-21.20	64.10	≤74	PASS
				Peak	2390.000	-32.62	≤-21.20	62.58	≤74	PASS
		High	2462	AV	2483.500	-55	≤-41.20	40.20	≤54	PASS
				AV	2483.780	-54.78	≤-41.20	40.42	≤54	PASS
				AV	2500.000	-55.99	≤-41.20	39.21	≤54	PASS
				Peak	2483.500	-44.91	≤-21.20	50.29	≤74	PASS
				Peak	2484.000	-43.18	≤-21.20	52.02	≤74	PASS
				Peak	2500.000	-45.72	≤-21.20	49.48	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-57.55	≤-41.20	37.65	≤54	PASS
				AV	2388.920	-55.17	≤-41.20	40.03	≤54	PASS
				AV	2390.000	-55.19	≤-41.20	40.01	≤54	PASS
				Peak	2310.000	-47.16	≤-21.20	48.04	≤74	PASS
				Peak	2387.230	-43.55	≤-21.20	51.65	≤74	PASS
				Peak	2390.000	-45.36	≤-21.20	49.84	≤74	PASS
		High	2462	AV	2483.500	-55.2	≤-41.20	40.00	≤54	PASS
				AV	2483.780	-55.01	≤-41.20	40.19	≤54	PASS
				AV	2500.000	-56.12	≤-41.20	39.08	≤54	PASS
				Peak	2483.500	-44.88	≤-21.20	50.32	≤74	PASS
				Peak	2486.200	-43.58	≤-21.20	51.62	≤74	PASS



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			Peak	2500.000	-45.61	≤-21.20	49.59	≤74	PASS
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Note:

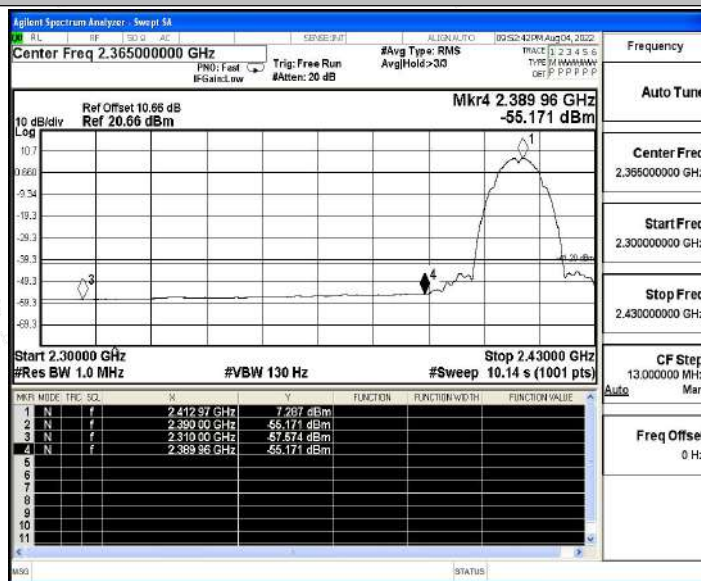
- 1. The Antenna Gain is compensated in the graph.
- 2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



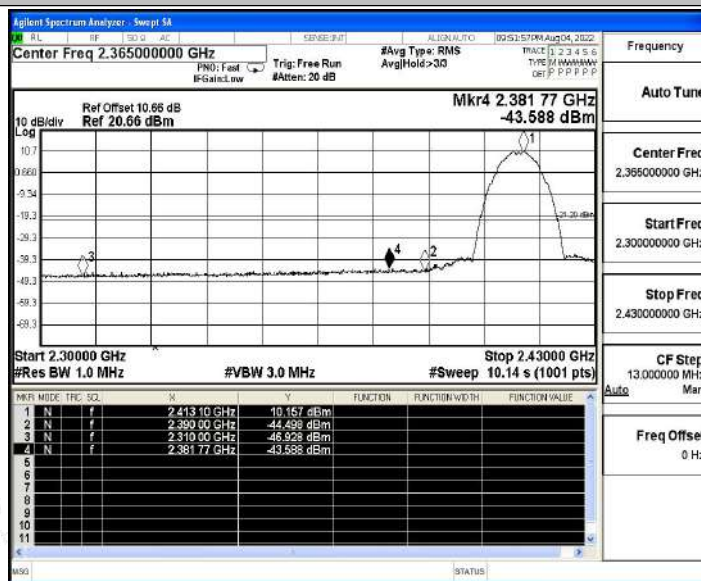


Test Graphs

11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak



11B_Ant1_High_2462_AV

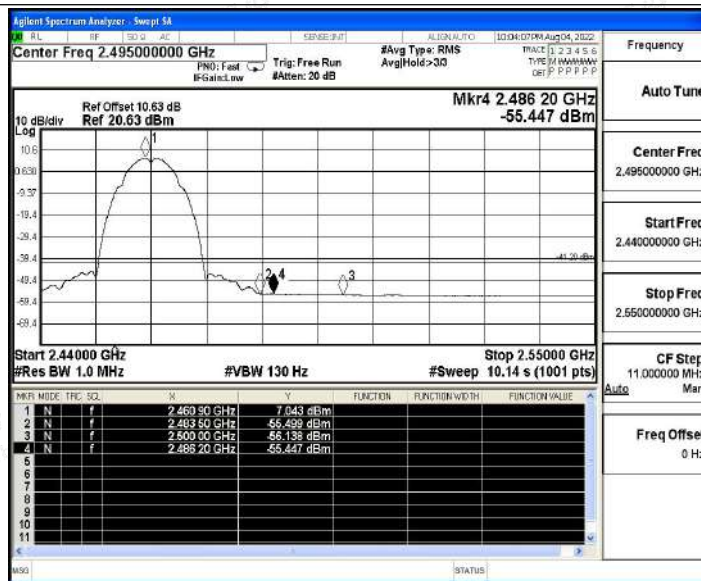


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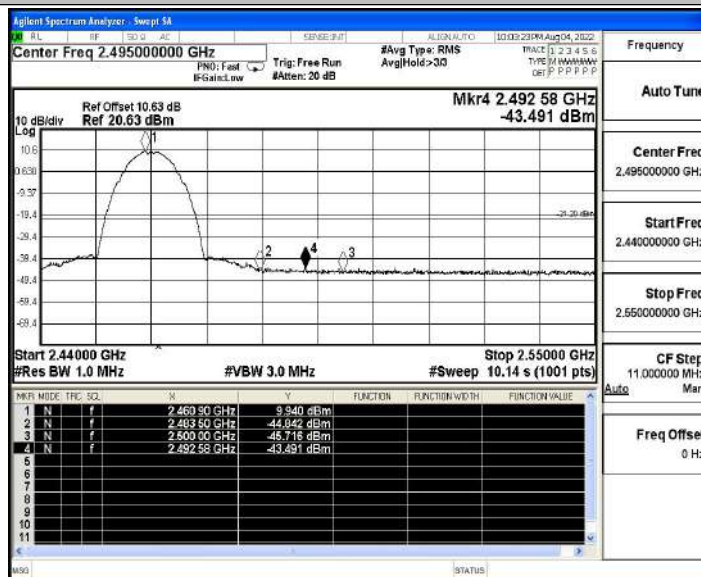
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV

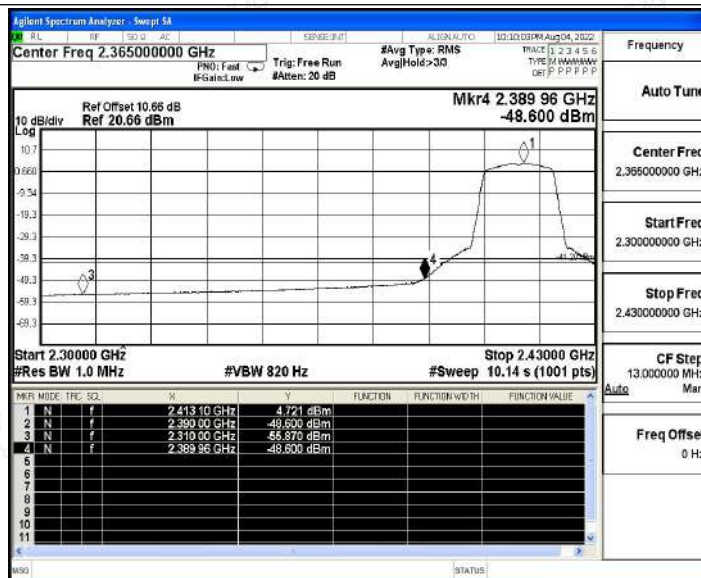


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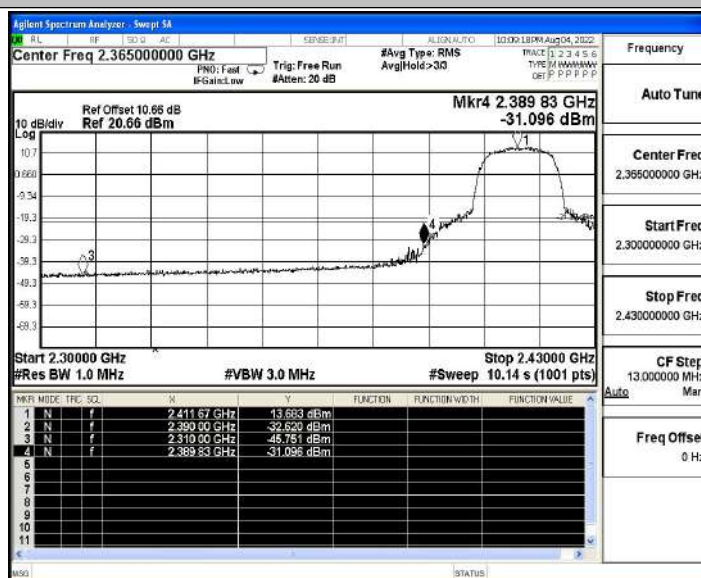
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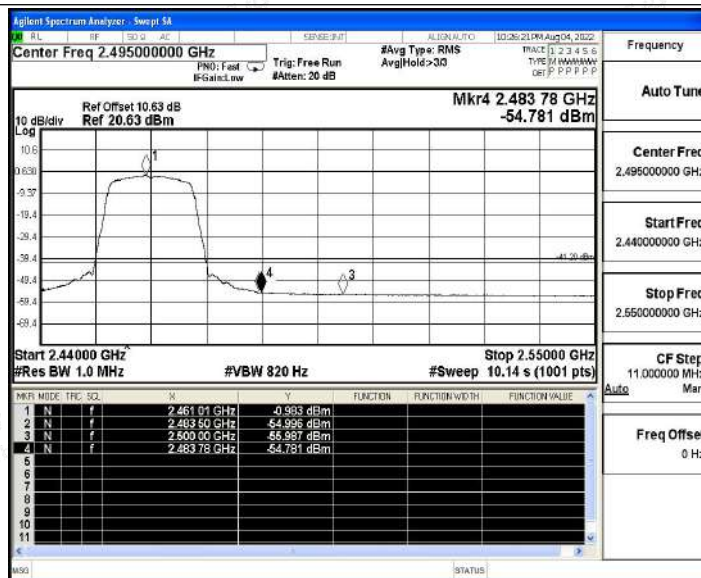


11G_Ant1_Low_2412_Peak

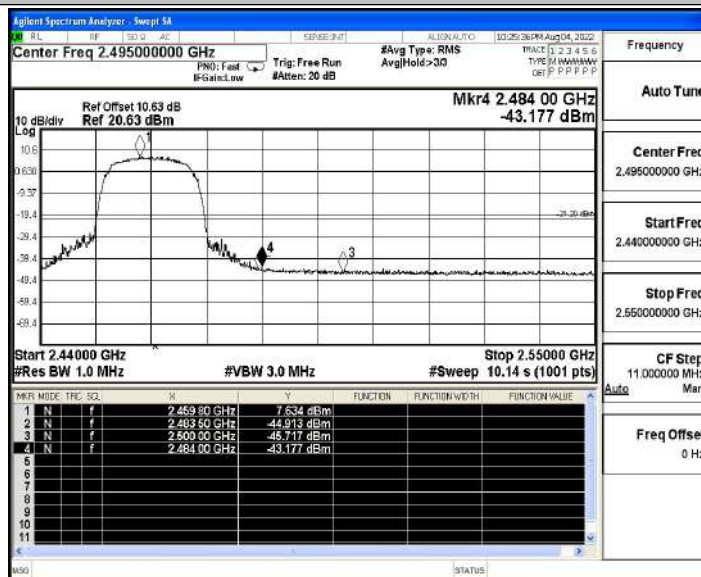


11G_Ant1_High_2462_AV





11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

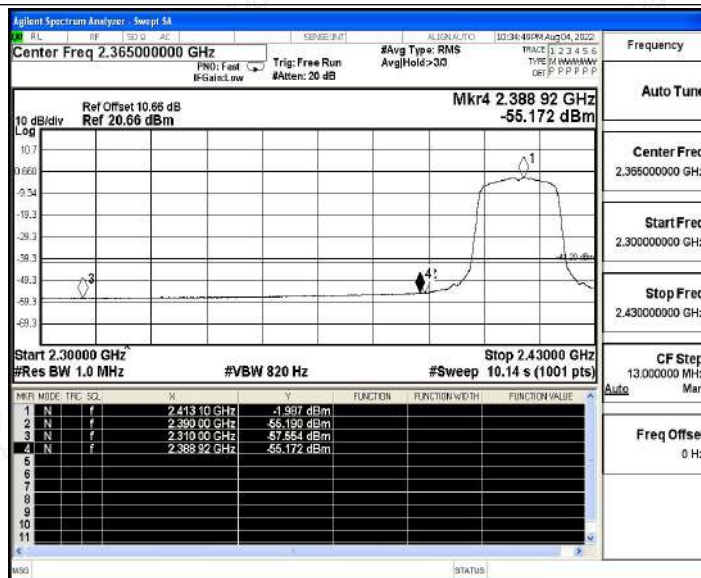


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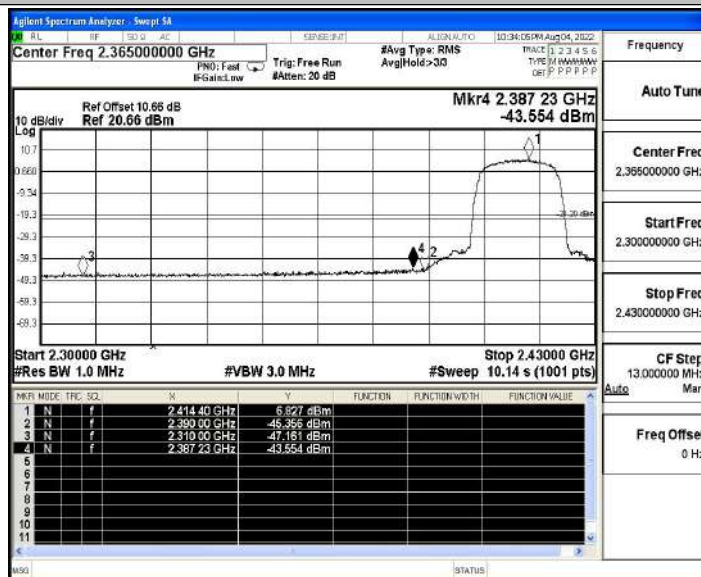
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11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV

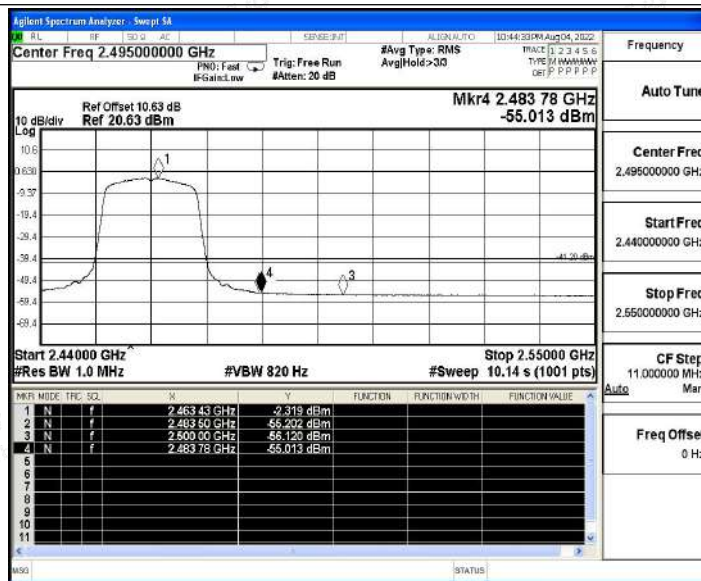


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11N20SISO_Ant1_High_2462_Peak

