

Appendix Test Data

Report No.:	18220WC10072602	Test Date:	2021.7.16
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.200	2407.920	2416.120	≥ 0.5	PASS
	Ant2	2412	8.680	2407.440	2416.120	≥ 0.5	PASS
	Ant1	2437	8.160	2432.920	2441.080	≥ 0.5	PASS
	Ant2	2437	9.120	2432.440	2441.560	≥ 0.5	PASS
	Ant1	2462	8.200	2457.920	2466.120	≥ 0.5	PASS
	Ant2	2462	8.640	2457.920	2466.560	≥ 0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	≥ 0.5	PASS
	Ant2	2412	16.440	2403.800	2420.240	≥ 0.5	PASS
	Ant1	2437	16.400	2428.800	2445.200	≥ 0.5	PASS
	Ant2	2437	16.440	2428.800	2445.240	≥ 0.5	PASS
	Ant1	2462	16.400	2453.800	2470.200	≥ 0.5	PASS
	Ant2	2462	16.440	2453.800	2470.240	≥ 0.5	PASS
11N20	Ant1	2412	17.680	2403.200	2420.880	≥ 0.5	PASS
	Ant2	2412	17.640	2403.200	2420.840	≥ 0.5	PASS
	Ant1	2437	17.680	2428.160	2445.840	≥ 0.5	PASS
	Ant2	2437	17.680	2428.160	2445.840	≥ 0.5	PASS
	Ant1	2462	17.640	2453.200	2470.840	≥ 0.5	PASS
	Ant2	2462	17.640	2453.200	2470.840	≥ 0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437



11B_Ant2_2437



11B_Ant1_2462



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11B_Ant2_2462



11G_Ant1_2412



11G_Ant2_2412

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11G_Ant1_2437



11G_Ant2_2437



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11G_Ant1_2462



11G_Ant2_2462



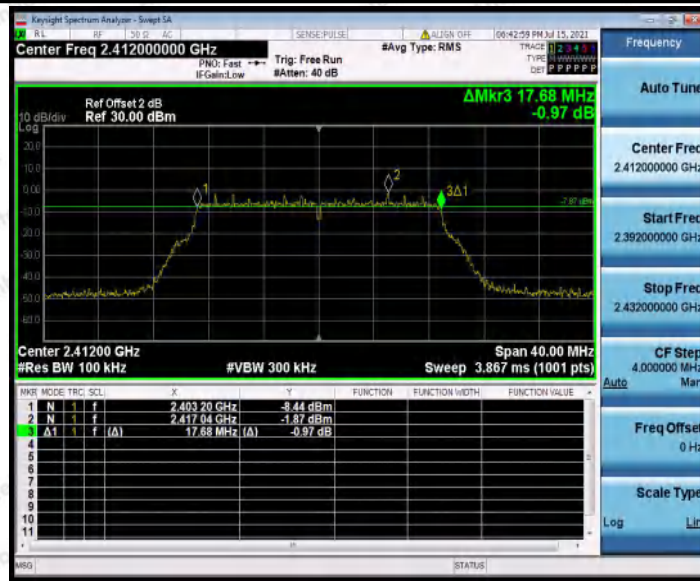
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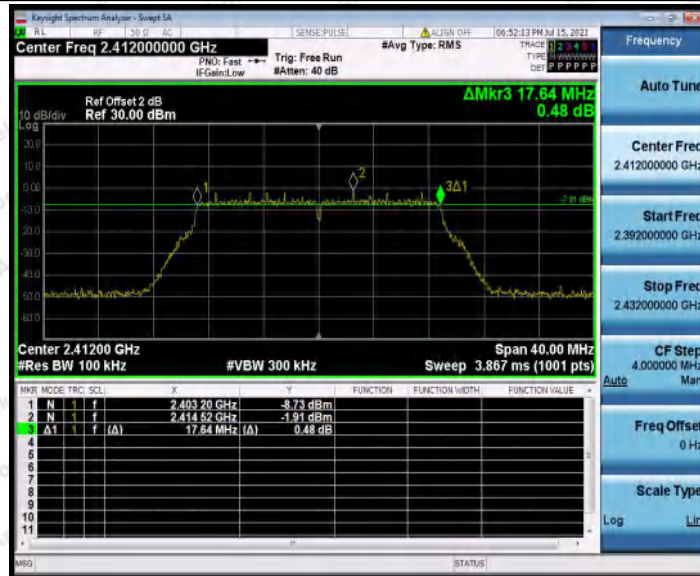
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11N20_Ant2_2412



11N20_Ant1_2437



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11N20_Ant2_2437



11N20_Ant1_2462



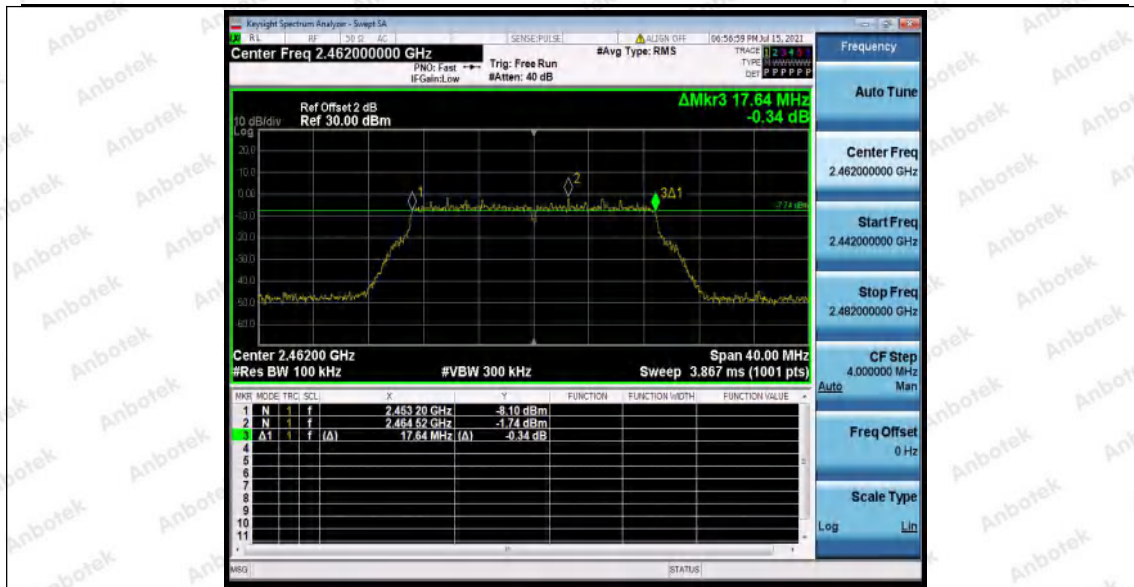
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.697	2406.185	2417.882	---	PASS
	Ant2	2412	11.777	2406.191	2417.968	---	PASS
	Ant1	2437	11.678	2431.167	2442.845	---	PASS
	Ant2	2437	11.820	2431.149	2442.969	---	PASS
	Ant1	2462	11.665	2456.169	2467.834	---	PASS
	Ant2	2462	11.808	2456.153	2467.961	---	PASS
11G	Ant1	2412	17.440	2403.288	2420.728	---	PASS
	Ant2	2412	17.411	2403.331	2420.742	---	PASS
	Ant1	2437	17.402	2428.322	2445.724	---	PASS
	Ant2	2437	17.337	2428.360	2445.697	---	PASS
	Ant1	2462	17.428	2453.268	2470.696	---	PASS
	Ant2	2462	17.394	2453.291	2470.685	---	PASS
11N20	Ant1	2412	18.339	2402.865	2421.204	---	PASS
	Ant2	2412	18.344	2402.871	2421.215	---	PASS
	Ant1	2437	18.308	2427.837	2446.145	---	PASS
	Ant2	2437	18.348	2427.808	2446.156	---	PASS
	Ant1	2462	18.375	2452.823	2471.198	---	PASS
	Ant2	2462	18.431	2452.827	2471.258	---	PASS

Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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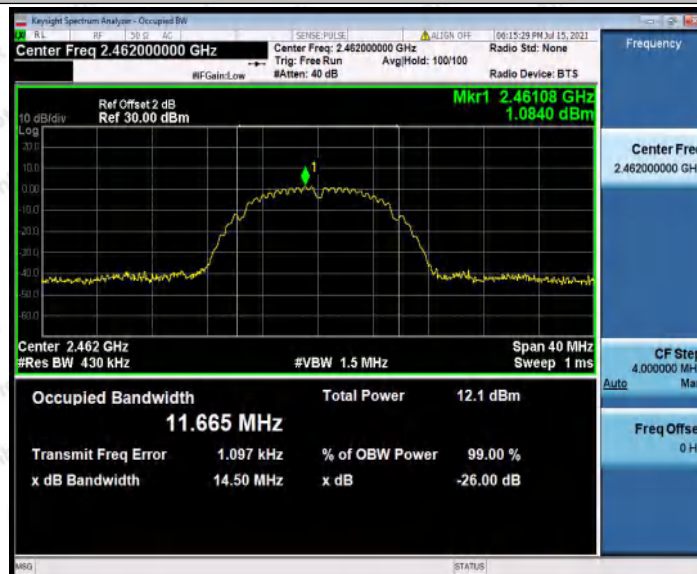
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11B_Ant2_2437



11B_Ant1_2462



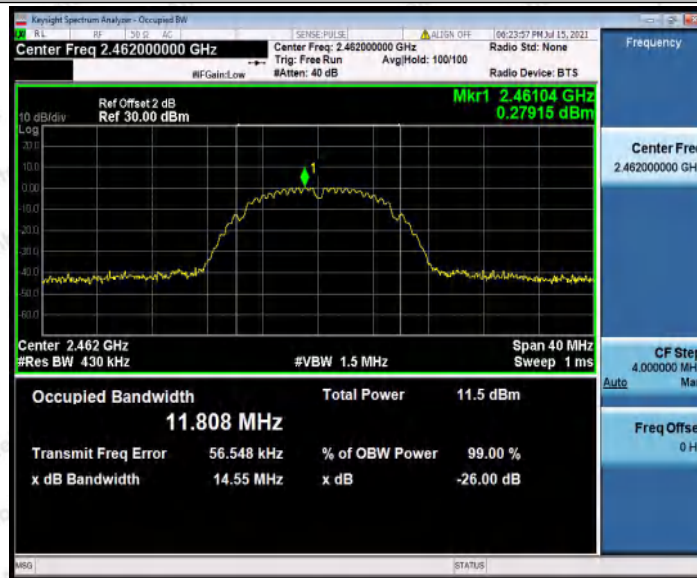
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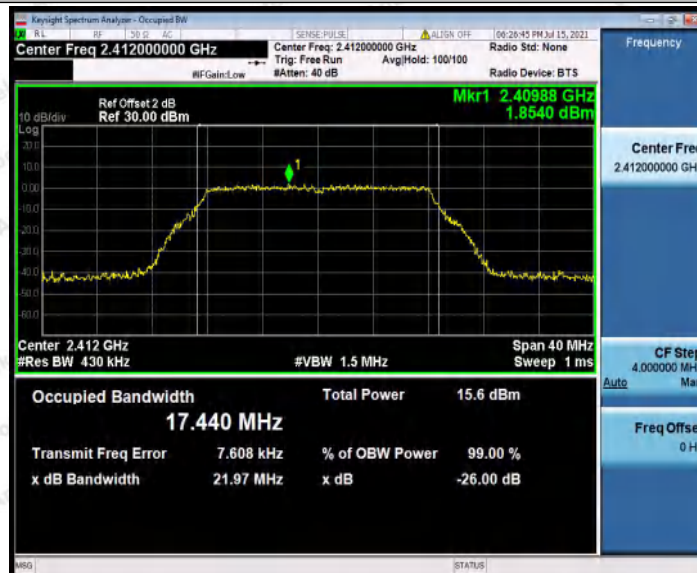
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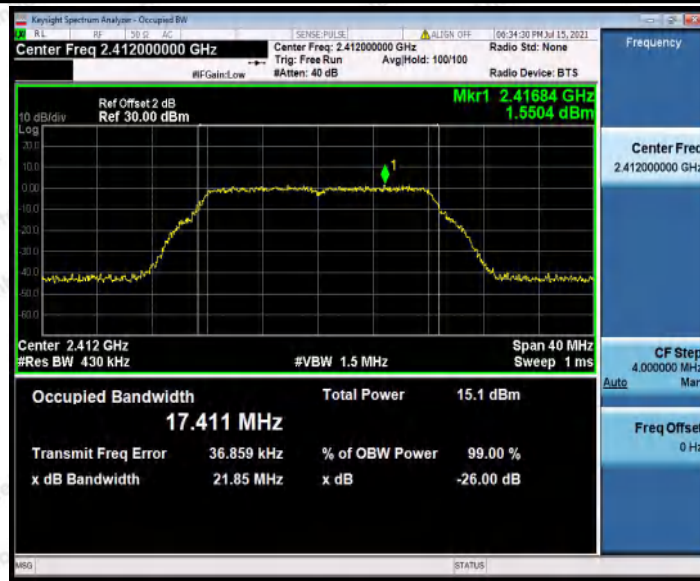
11B_Ant2_2462



11G_Ant1_2412



11G_Ant2_2412



11G_Ant1_2437



11G_Ant2_2437

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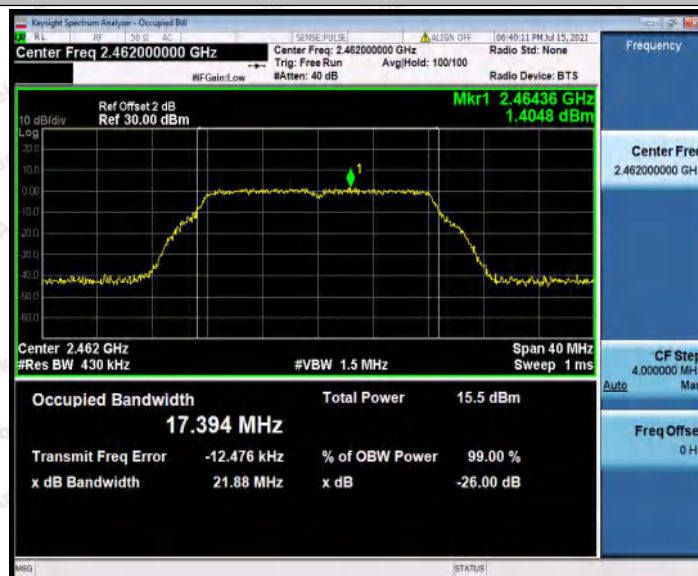
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11G_Ant1_2462



11G_Ant2_2462



11N20_Ant1_2412

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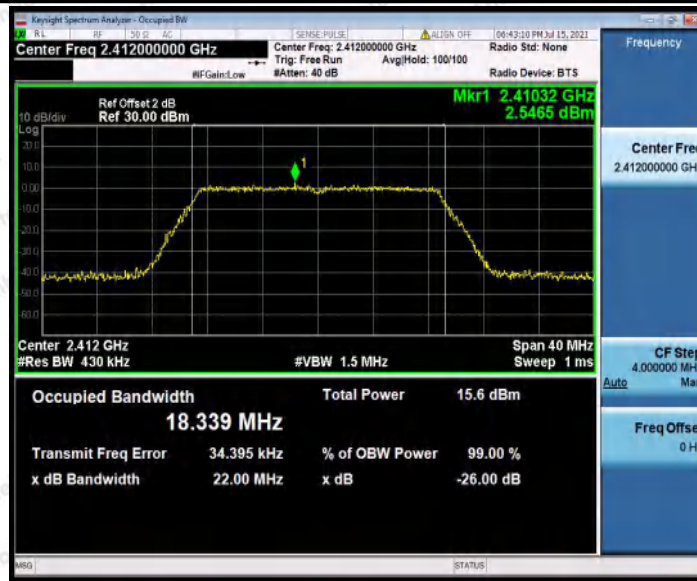
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11N20_Ant2_2412



11N20_Ant1_2437



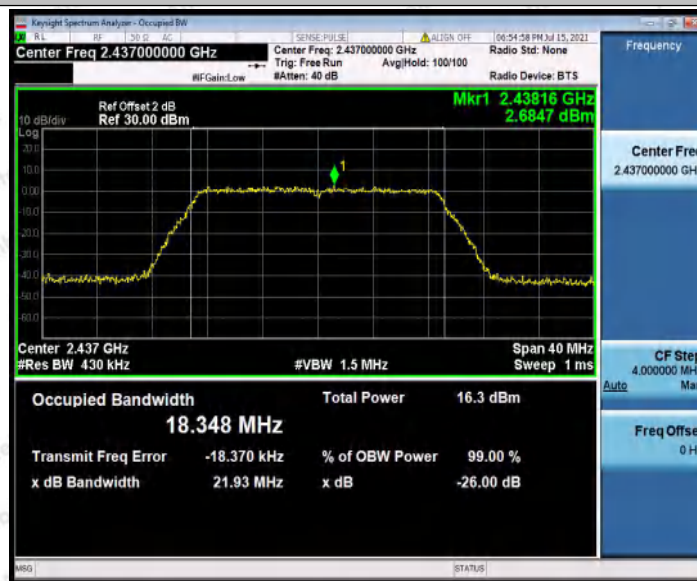
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11N20_Ant1_2462



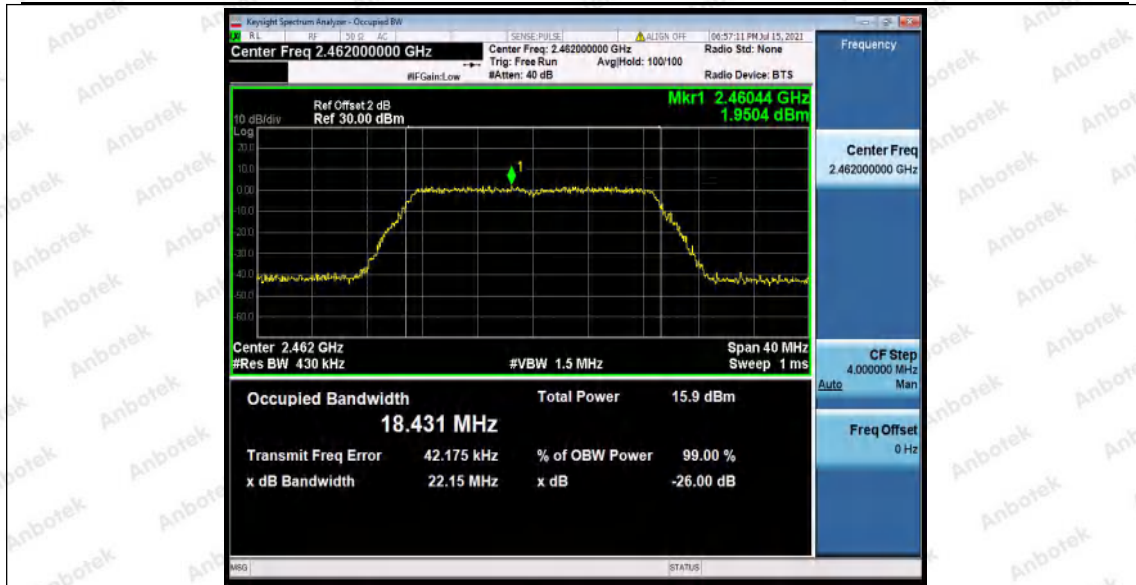
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	11.06	<=30	PASS
	Ant2	2412	11.17	<=30	PASS
	Ant1	2437	11.87	<=30	PASS
	Ant2	2437	11.83	<=30	PASS
	Ant1	2462	11.64	<=30	PASS
	Ant2	2462	11.08	<=30	PASS
11G	Ant1	2412	16.75	<=30	PASS
	Ant2	2412	16.11	<=30	PASS
	Ant1	2437	17.43	<=30	PASS
	Ant2	2437	16.71	<=30	PASS
	Ant1	2462	17.28	<=30	PASS
	Ant2	2462	16.43	<=30	PASS
11N20	Ant1	2412	16.57	<=30	PASS
	Ant2	2412	16.63	<=30	PASS
	Ant1	2437	17.52	<=30	PASS
	Ant2	2437	17.25	<=30	PASS
	Ant1	2462	17.25	<=30	PASS
	Ant2	2462	17.05	<=30	PASS

Mode	Frequency (MHz)	Measured Peak Output Power (dBm)			Limit (dBm)	MIMO Limit (dBm)	Verdict
		Ant1	Ant2	Sum			
802.11n (HT20)	2412	16.57	16.63	19.61	<=30	<=29.59	Pass
	2437	17.52	17.25	20.40	<=30	<=29.59	Pass
	2462	17.25	17.05	20.16	<=30	<=29.59	Pass

Note1: Antenna Gain: 1: 3.40dBi; 2: 3.40dBi;

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.55	<=8	PASS
	Ant2	2412	-8.26	<=8	PASS
	Ant1	2437	-7.86	<=8	PASS
	Ant2	2437	-7.16	<=8	PASS
	Ant1	2462	-8.31	<=8	PASS
	Ant2	2462	-8.74	<=8	PASS
11G	Ant1	2412	-10.57	<=8	PASS
	Ant2	2412	-10.96	<=8	PASS
	Ant1	2437	-9.64	<=8	PASS
	Ant2	2437	-10.58	<=8	PASS
	Ant1	2462	-9.86	<=8	PASS
	Ant2	2462	-10.6	<=8	PASS
11N20	Ant1	2412	-10.12	<=8	PASS
	Ant2	2412	-9.69	<=8	PASS
	Ant1	2437	-9.21	<=8	PASS
	Ant2	2437	-9.06	<=8	PASS
	Ant1	2462	-7.28	<=8	PASS
	Ant2	2462	-8.63	<=8	PASS

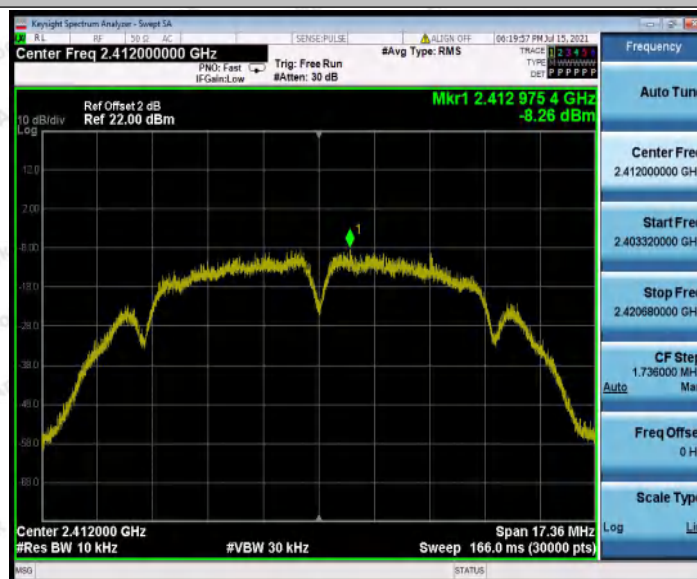
Mode	Frequency (MHz)	Maximum PSD (dBm/3kHz)			Limit (dBm/3kHz)	MIMO Limit (dBm/3kHz)	Verdict
		Ant1	Ant2	Sum			
802.11n (HT20)	2412	-10.12	-9.69	-6.89	<=8	<=7.59	Pass
	2437	-9.21	-9.06	-6.12	<=8	<=7.59	Pass
	2462	-7.28	-8.63	-4.89	<=8	<=7.59	Pass
Note1: Antenna Gain: 1: 3.40dBi; 2: 3.40dBi;							

Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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11B_Ant2_2437



11B_Ant1_2462



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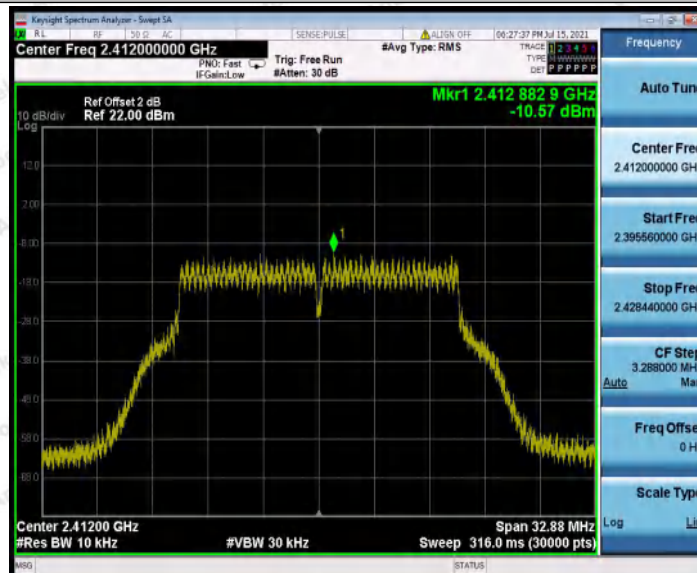
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11B_Ant2_2462



11G_Ant1_2412



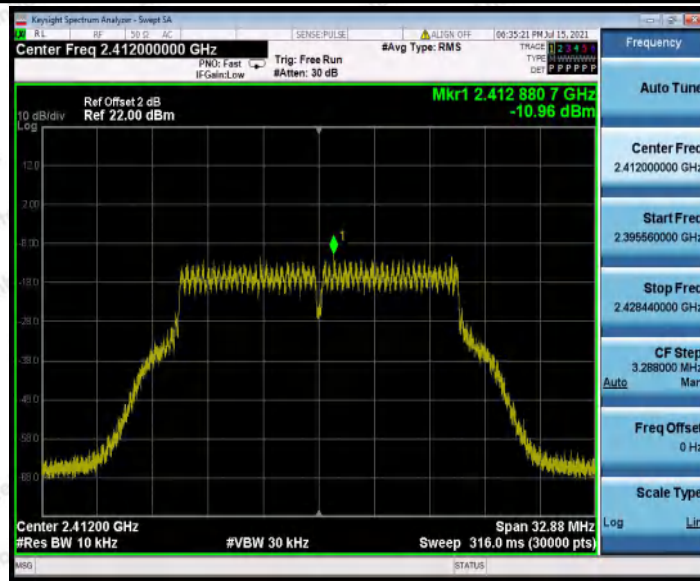
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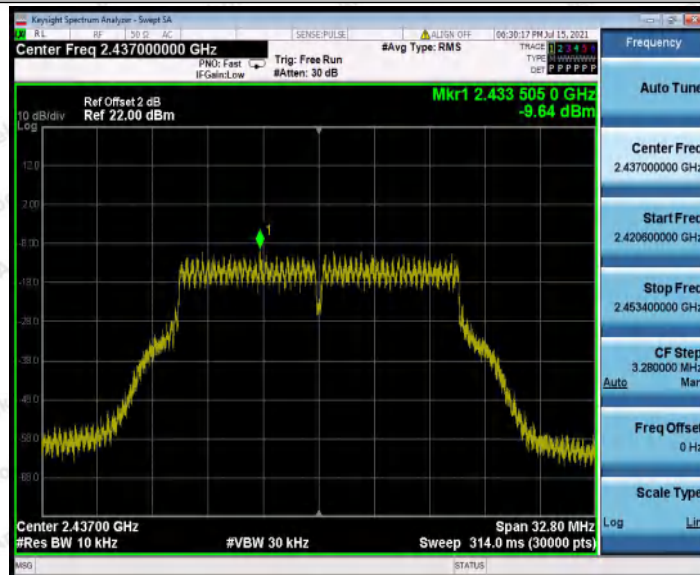
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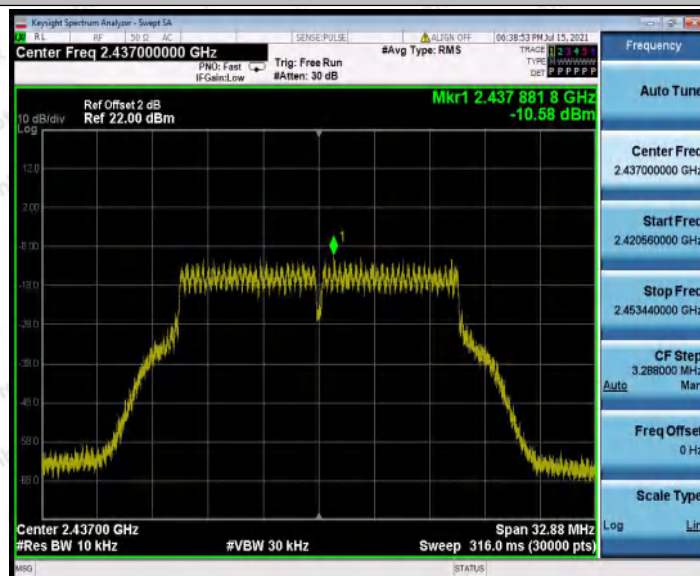
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11G_Ant1_2437



11G_Ant2_2437



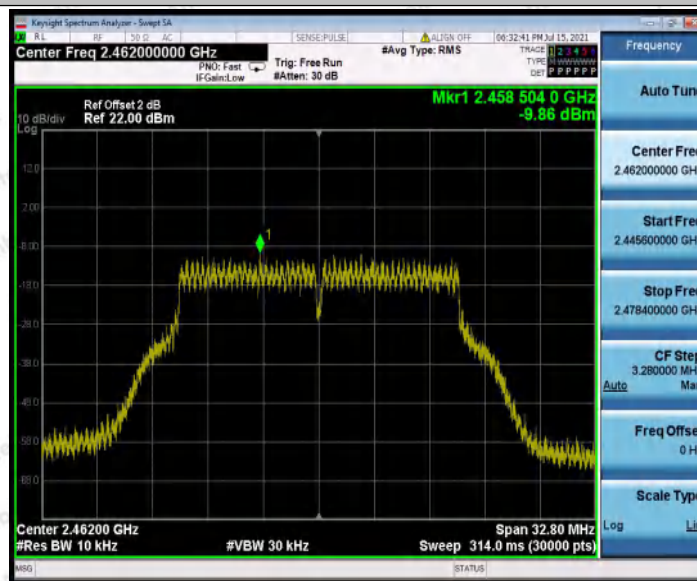
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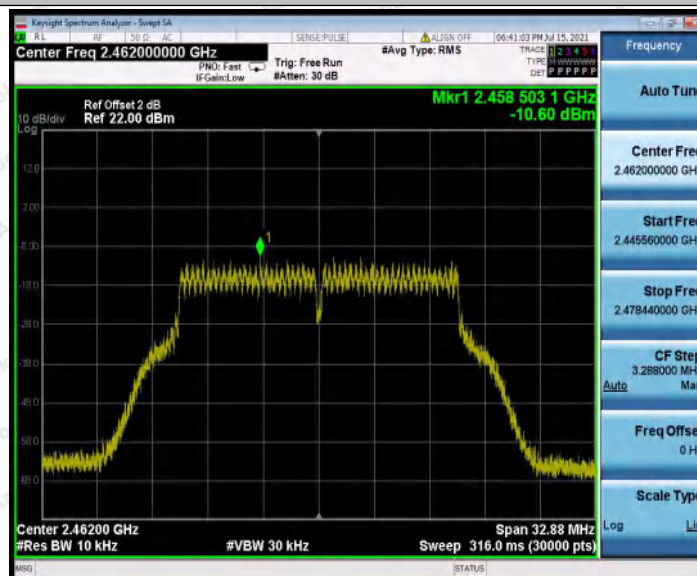
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11G_Ant1_2462



11G_Ant2_2462



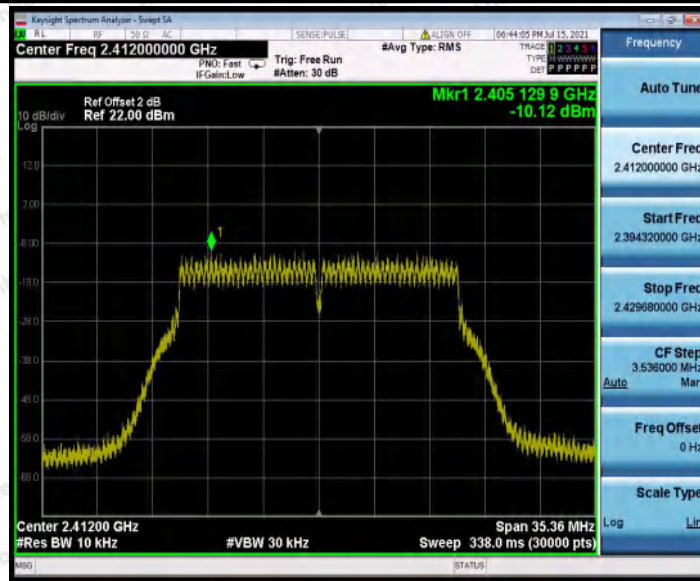
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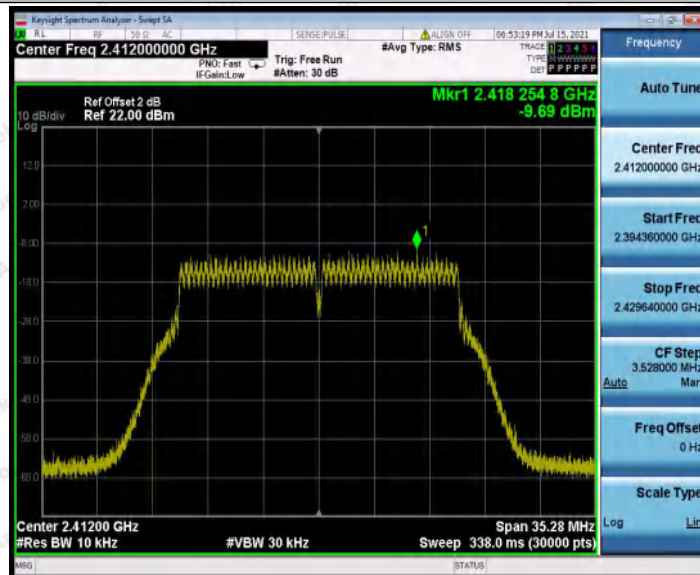
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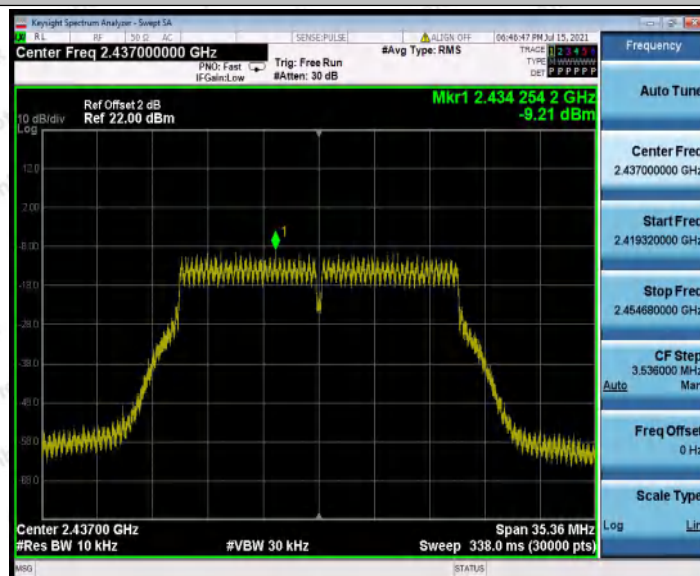
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11N20_Ant2_2412



11N20_Ant1_2437



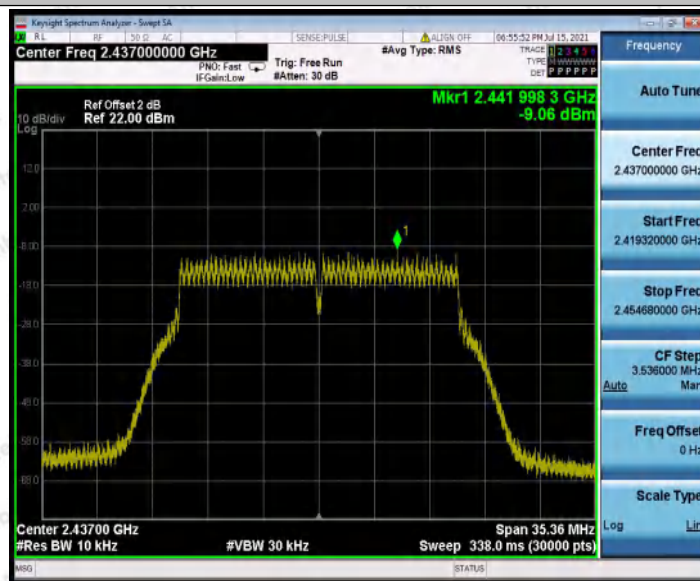
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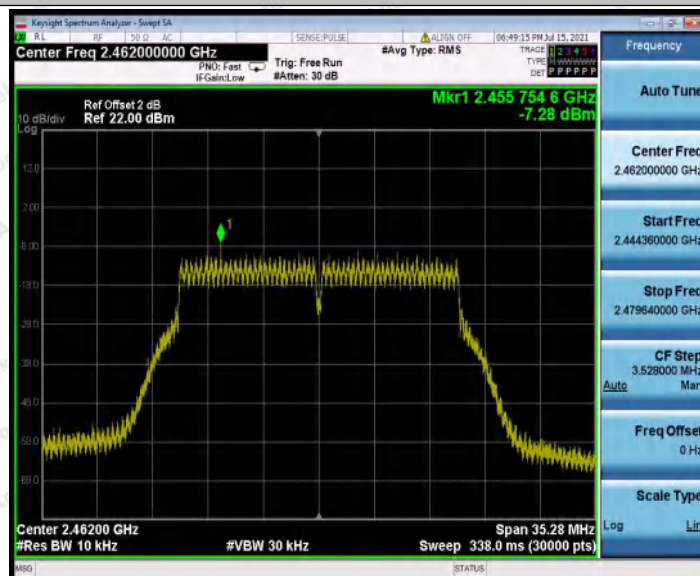
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11N20_Ant2_2437



11N20_Ant1_2462



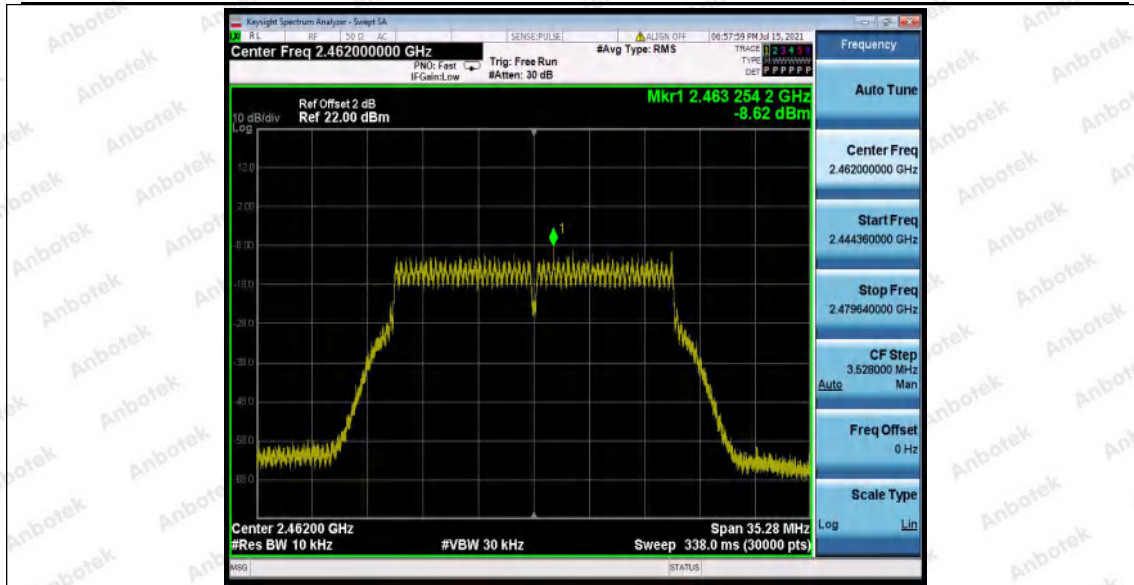
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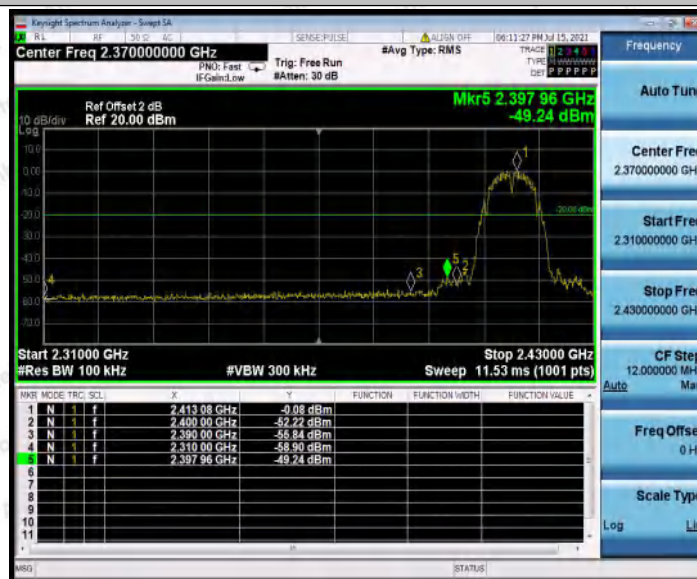
Appendix E: Band edge measurements

Test Result

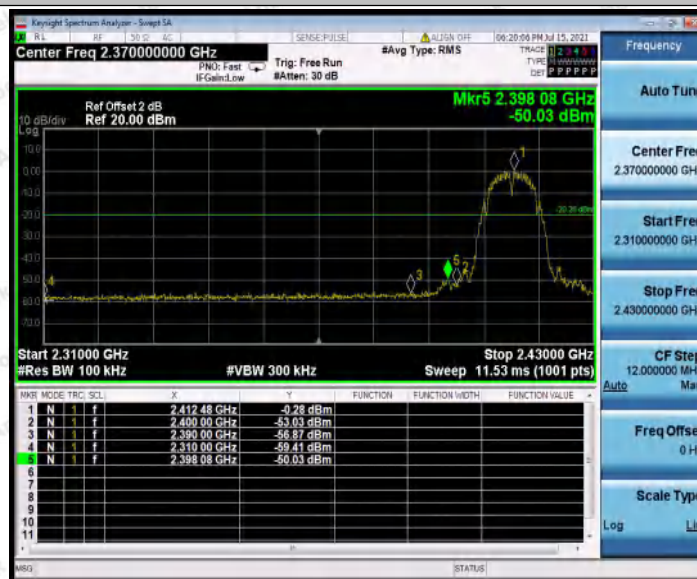
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-0.08	-49.24	<=-20.08	PASS
	Ant2	Low	2412	-0.28	-50.03	<=-20.28	PASS
	Ant1	High	2462	0.63	-54.62	<=-19.37	PASS
	Ant2	High	2462	0.02	-54.5	<=-19.99	PASS
11G	Ant1	Low	2412	-1.25	-44.26	<=-21.25	PASS
	Ant2	Low	2412	-2.19	-46.23	<=-22.19	PASS
	Ant1	High	2462	-0.77	-52.58	<=-20.77	PASS
	Ant2	High	2462	-1.57	-52.92	<=-21.57	PASS
11N20	Ant1	Low	2412	-1.38	-42.57	<=-21.38	PASS
	Ant2	Low	2412	-1.23	-45.74	<=-21.23	PASS
	Ant1	High	2462	-0.56	-52.01	<=-20.56	PASS
	Ant2	High	2462	-1.23	-52.85	<=-21.23	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant2_Low_2412



11B_Ant1_High_2462



11B_Ant2_High_2462



11G_Ant1_Low_2412



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11G_Ant2_Low_2412



11G_Ant1_High_2462



11G_Ant2_High_2462

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11N20_Ant1_Low_2412



11N20_Ant2_Low_2412



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11N20_Ant1_High_2462



11N20_Ant2_High_2462



Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.36	0.36	---	PASS
			30~1000	0.36	-67.56	<=-19.65	PASS
			1000~26500	0.36	-52.44	<=-19.65	PASS
	Ant2	2412	Reference	0.01	0.01	---	PASS
			30~1000	0.01	-67.97	<=-19.99	PASS
			1000~26500	0.01	-52.44	<=-19.99	PASS
	Ant1	2437	Reference	0.96	0.96	---	PASS
			30~1000	0.96	-68.61	<=-19.05	PASS
			1000~26500	0.96	-53.11	<=-19.05	PASS
	Ant2	2437	Reference	0.56	0.56	---	PASS
			30~1000	0.56	-68.1	<=-19.44	PASS
			1000~26500	0.56	-52.45	<=-19.44	PASS
	Ant1	2462	Reference	0.52	0.52	---	PASS
			30~1000	0.52	-67.78	<=-19.48	PASS
			1000~26500	0.52	-52.42	<=-19.48	PASS
	Ant2	2462	Reference	-0.07	-0.07	---	PASS
			30~1000	-0.07	-68.19	<=-20.07	PASS
			1000~26500	-0.07	-52.52	<=-20.07	PASS
11G	Ant1	2412	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-67.82	<=-21.29	PASS
			1000~26500	-1.29	-52.19	<=-21.29	PASS
	Ant2	2412	Reference	-2.23	-2.23	---	PASS
			30~1000	-2.23	-68.4	<=-22.23	PASS
			1000~26500	-2.23	-53.22	<=-22.23	PASS
	Ant1	2437	Reference	-0.67	-0.67	---	PASS
			30~1000	-0.67	-68.13	<=-20.67	PASS
			1000~26500	-0.67	-52.65	<=-20.67	PASS
	Ant2	2437	Reference	-1.34	-1.34	---	PASS
			30~1000	-1.34	-68.14	<=-21.34	PASS
			1000~26500	-1.34	-51.98	<=-21.34	PASS
	Ant1	2462	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-67.93	<=-20.89	PASS
			1000~26500	-0.89	-51.81	<=-20.89	PASS
	Ant2	2462	Reference	-1.96	-1.96	---	PASS
			30~1000	-1.96	-66.96	<=-21.96	PASS
			1000~26500	-1.96	-52.35	<=-21.96	PASS
11N20	Ant1	2412	Reference	-1.52	-1.52	---	PASS

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			30~1000	-1.52	-68.21	<=-21.52	PASS
			1000~26500	-1.52	-52.59	<=-21.52	PASS
			Reference	-1.61	-1.61	---	PASS
	Ant2	2412	30~1000	-1.61	-67.84	<=-21.61	PASS
			1000~26500	-1.61	-52.79	<=-21.61	PASS
			Reference	-0.47	-0.47	---	PASS
	Ant1	2437	30~1000	-0.47	-67.82	<=-20.47	PASS
			1000~26500	-0.47	-52.55	<=-20.47	PASS
			Reference	-1.01	-1.01	---	PASS
	Ant2	2437	30~1000	-1.01	-68.14	<=-21.01	PASS
			1000~26500	-1.01	-53.02	<=-21.01	PASS
			Reference	-0.79	-0.79	---	PASS
	Ant1	2462	30~1000	-0.79	-67.72	<=-20.79	PASS
			1000~26500	-0.79	-52.02	<=-20.79	PASS
			Reference	-1.11	-1.11	---	PASS
	Ant2	2462	30~1000	-1.11	-67.77	<=-21.11	PASS
			1000~26500	-1.11	-53.04	<=-21.11	PASS
			Reference	-1.11	-1.11	---	PASS

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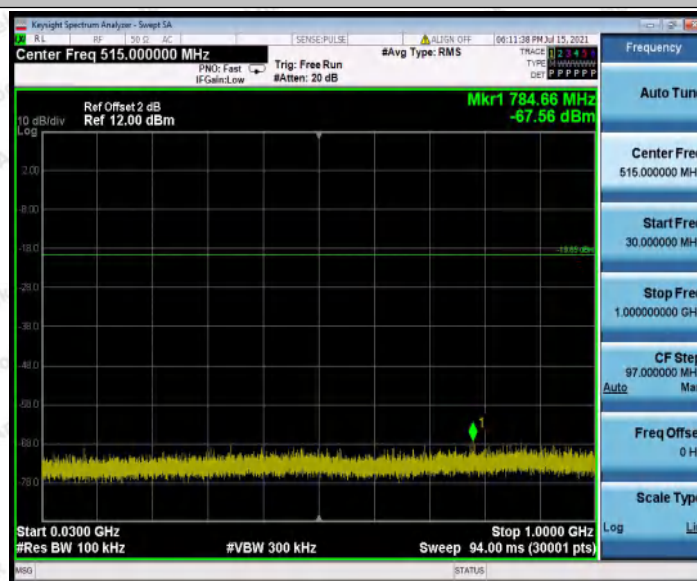
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Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000

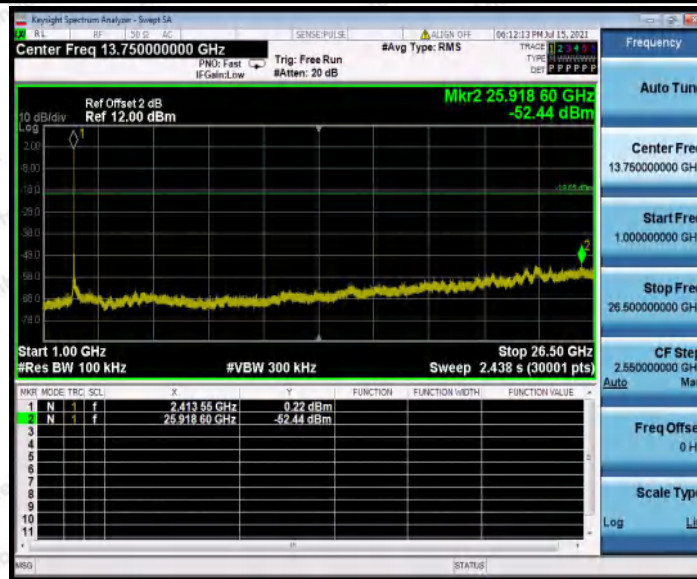


11B_Ant1_2412_1000~26500

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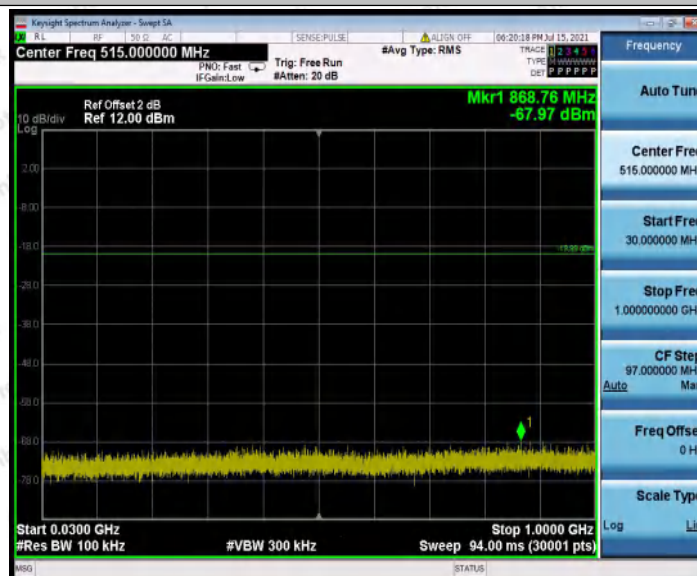
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11B_Ant2_2412_0~Reference



11B_Ant2_2412_30~1000

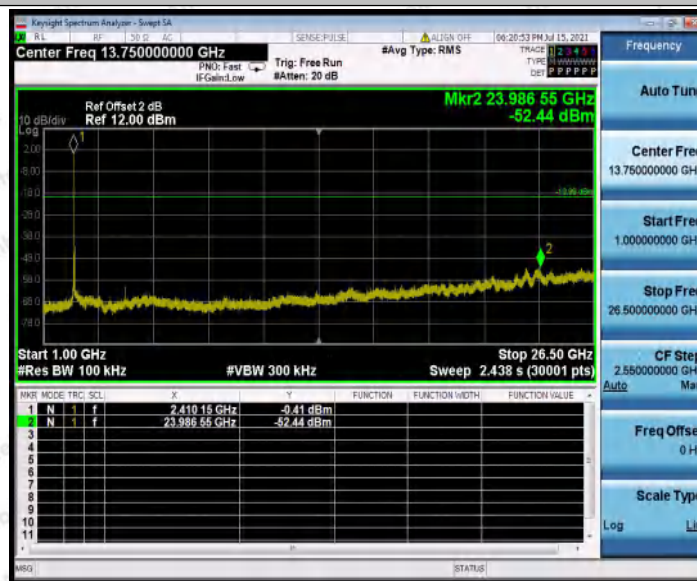


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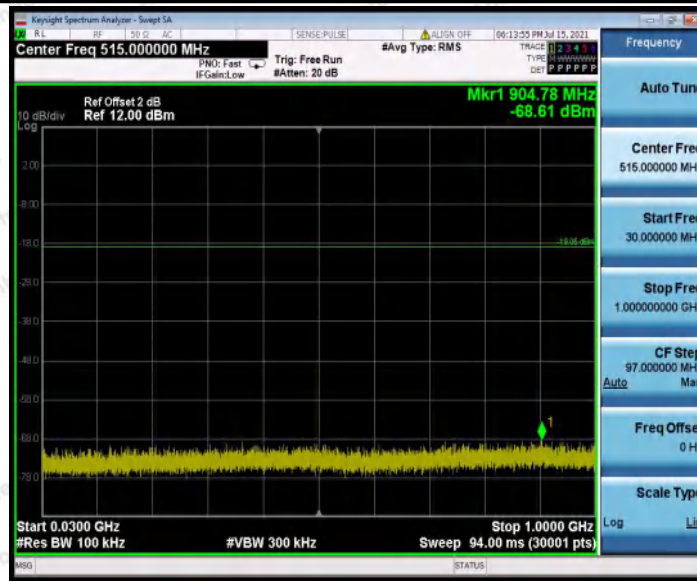
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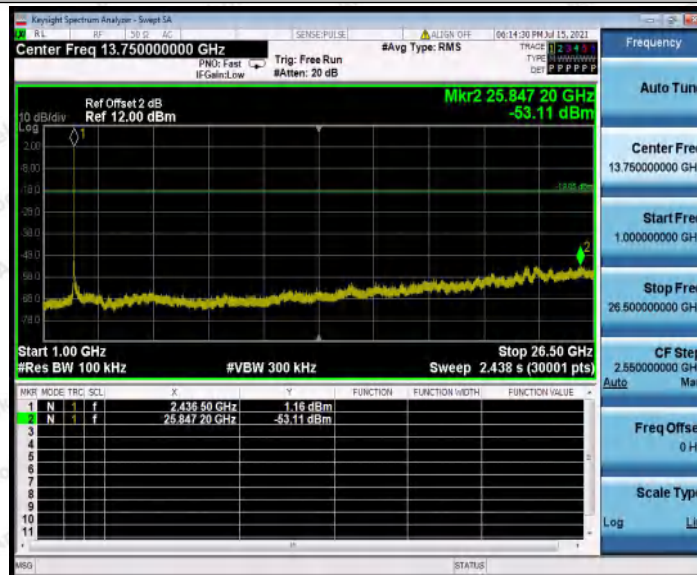
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500



11B_Ant2_2437_0~Reference



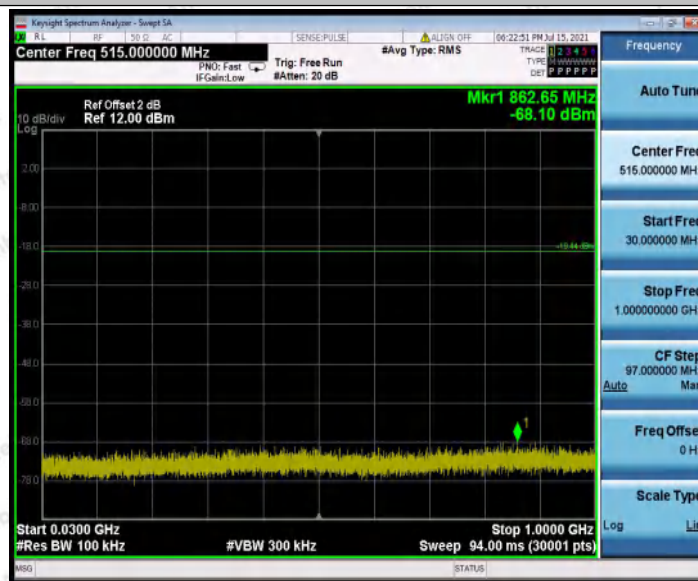
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11B_Ant2_2437_30~1000



11B_Ant2_2437_1000~26500



11B_Ant1_2462_0~Reference

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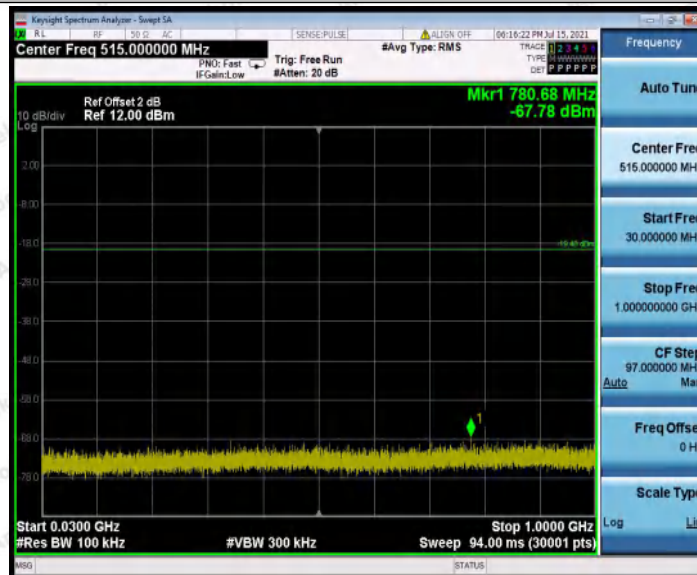
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

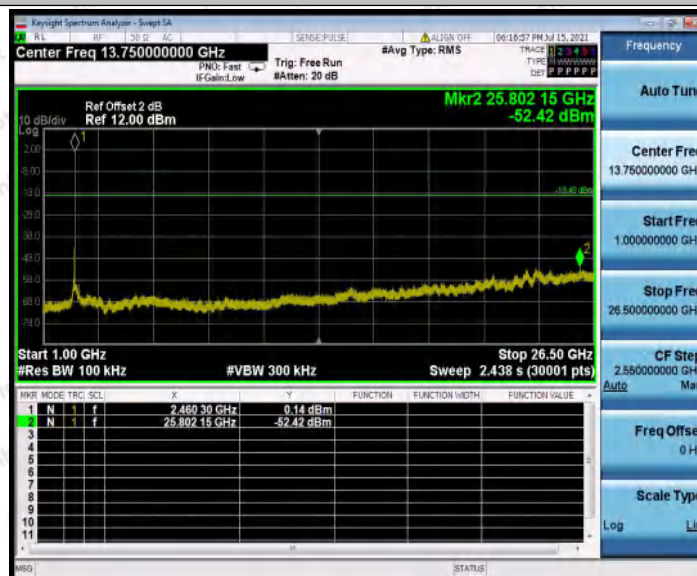
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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



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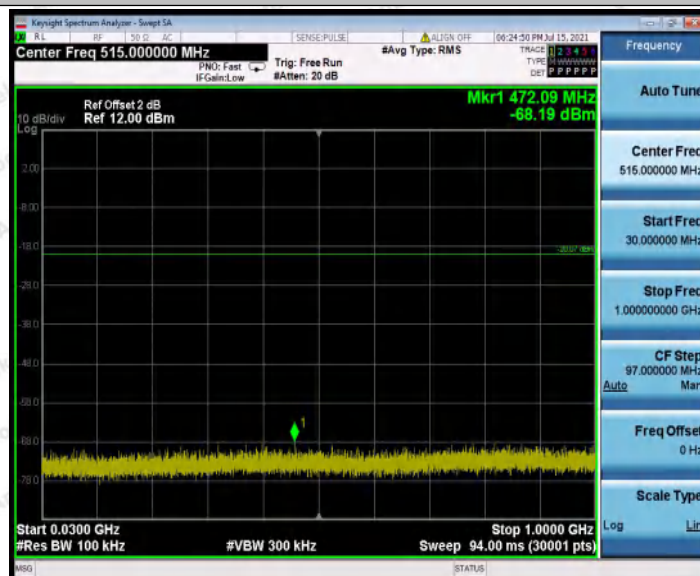
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11B_Ant2_2462_0~Reference



11B_Ant2_2462_30~1000

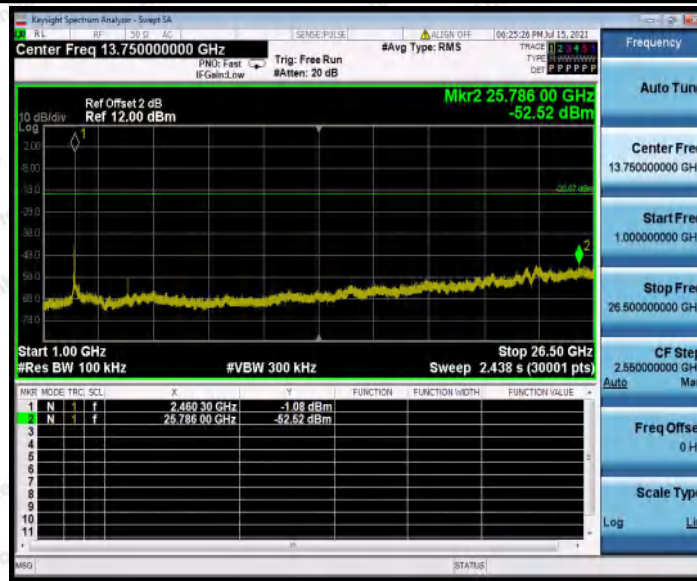


11B_Ant2_2462_1000~26500

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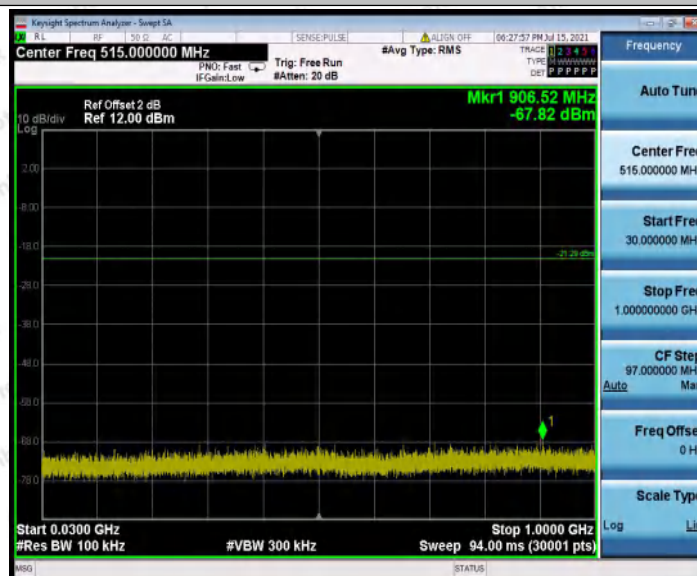
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11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



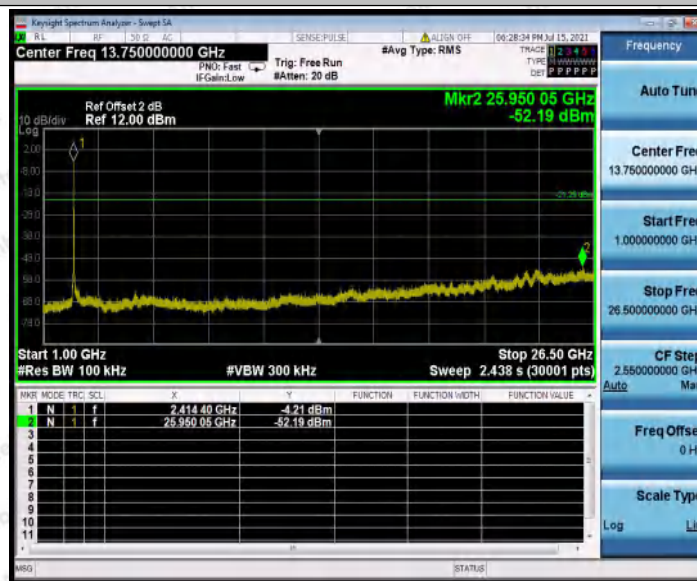
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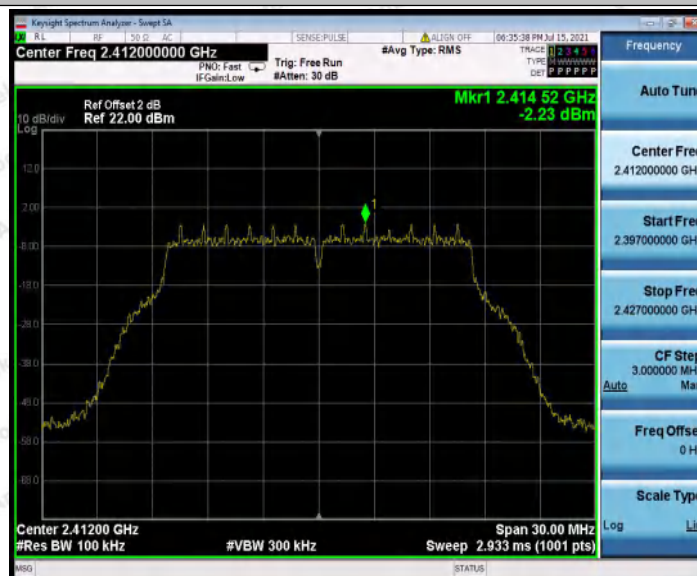
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11G_Ant1_2412_1000~26500



11G_Ant2_2412_0~Reference

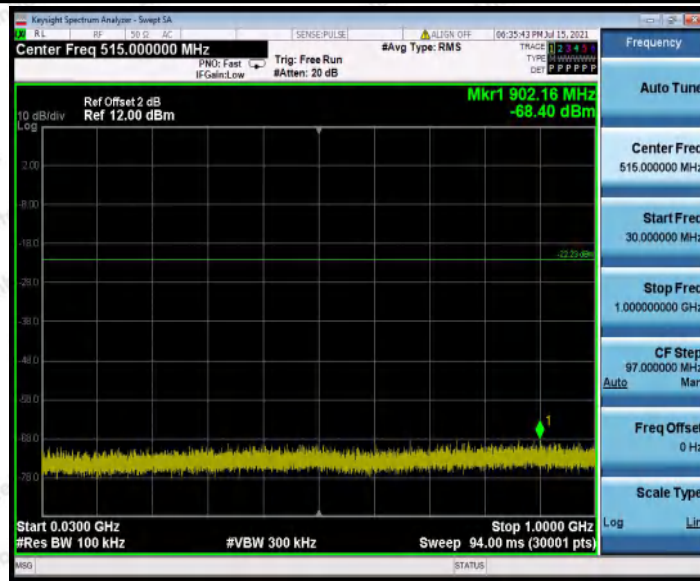


11G_Ant2_2412_30~1000

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11G_Ant2_2412_1000~26500



11G_Ant1_2437_0~Reference



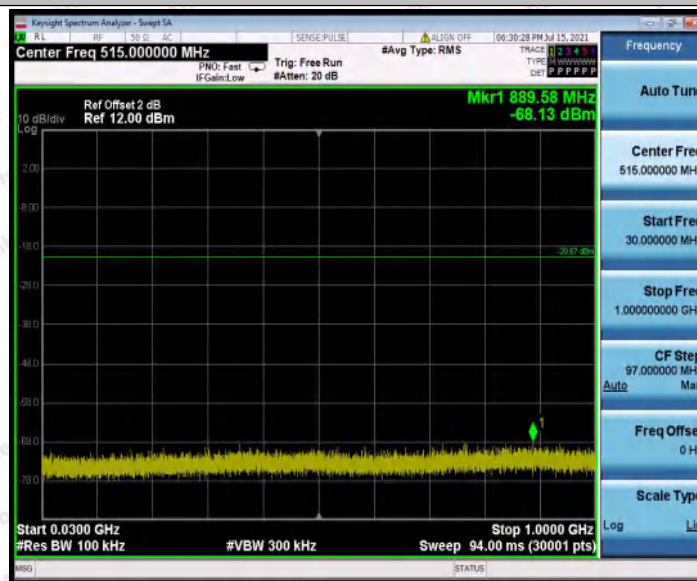
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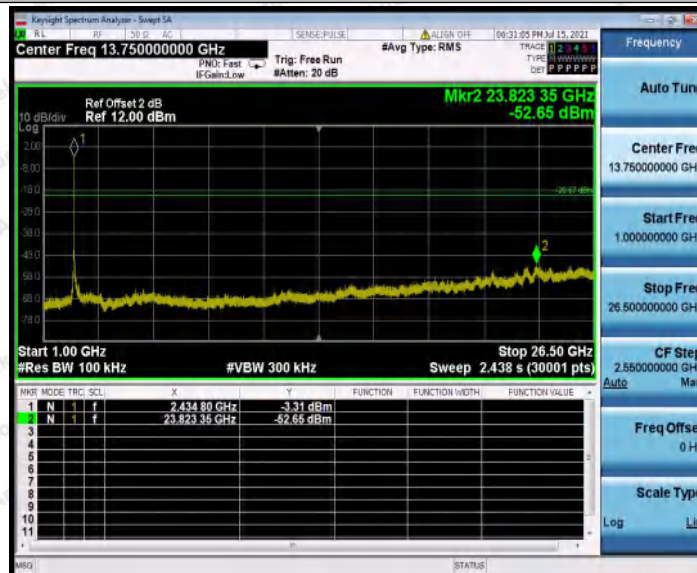
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

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11G_Ant1_2437_30~1000



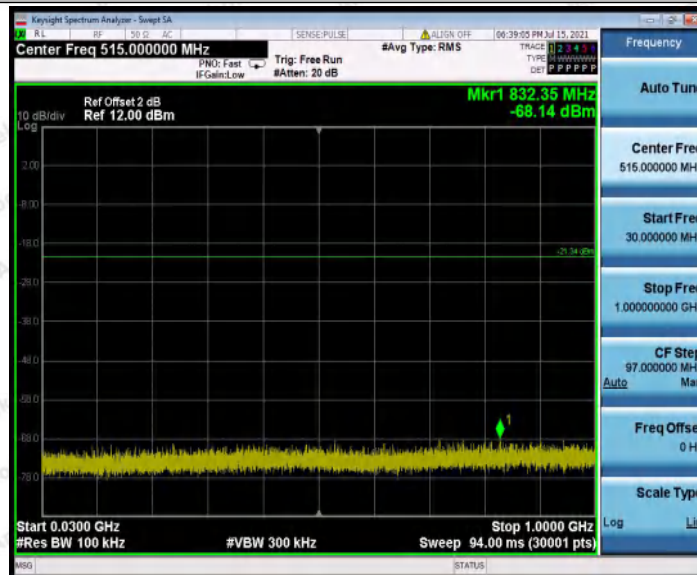
11G_Ant1_2437_1000~26500



11G_Ant2_2437_0~Reference



11G_Ant2_2437_30~1000



11G_Ant2_2437_1000~26500



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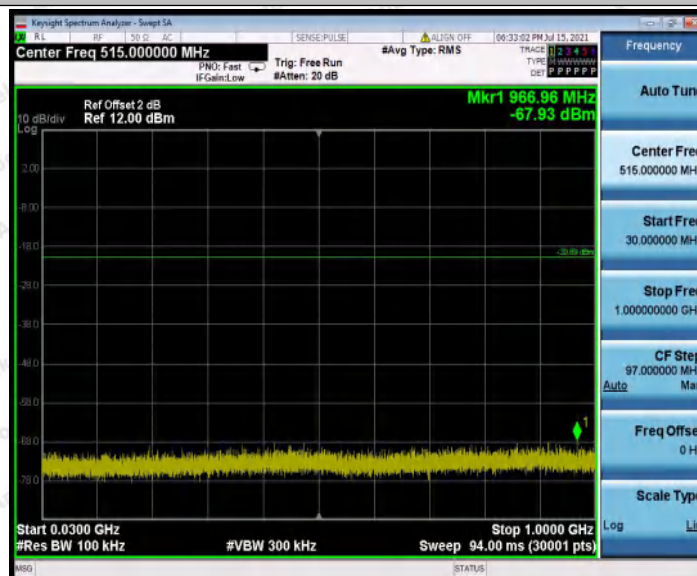
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



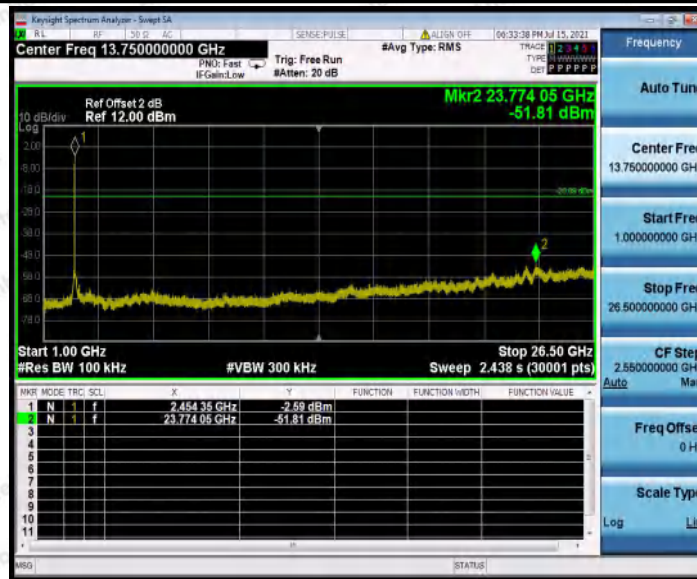
11G_Ant1_2462_1000~26500

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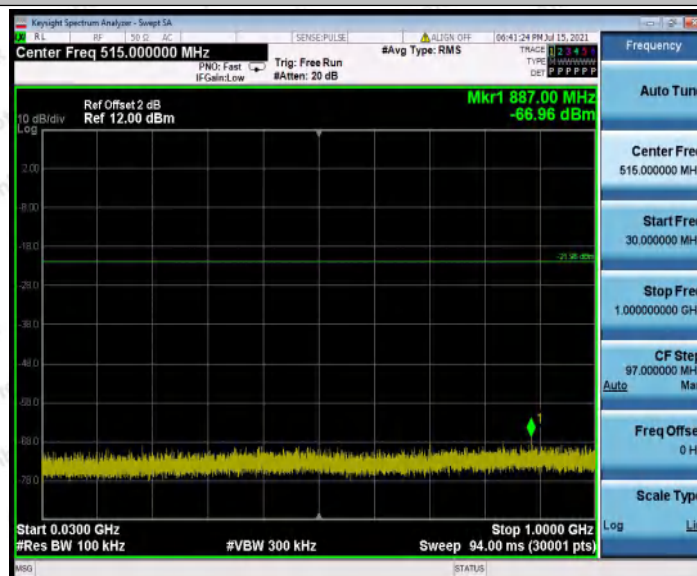
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11G_Ant2_2462_0~Reference



11G_Ant2_2462_30~1000



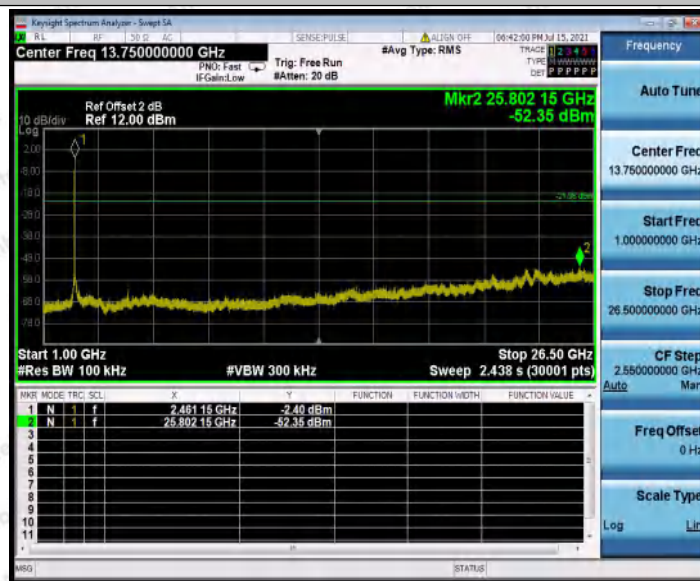
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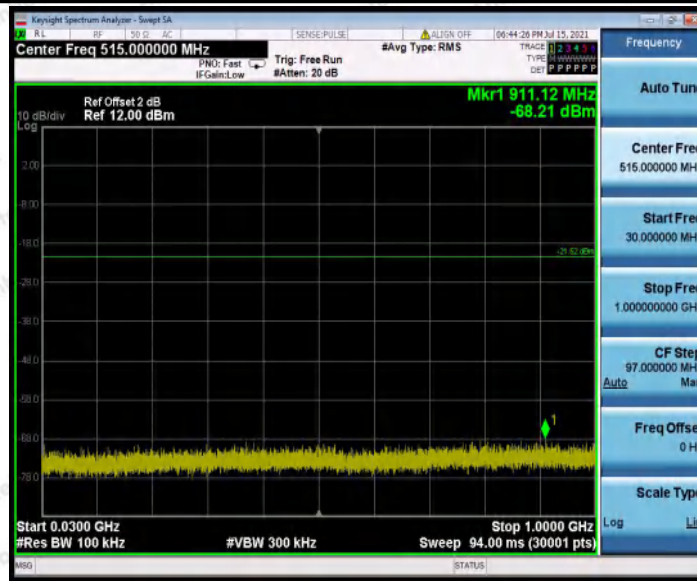
11G_Ant2_2462_1000~26500



11N20_Ant1_2412_0~Reference



11N20_Ant1_2412_30~1000



11N20_Ant1_2412_1000~26500



11N20_Ant2_2412_0~Reference



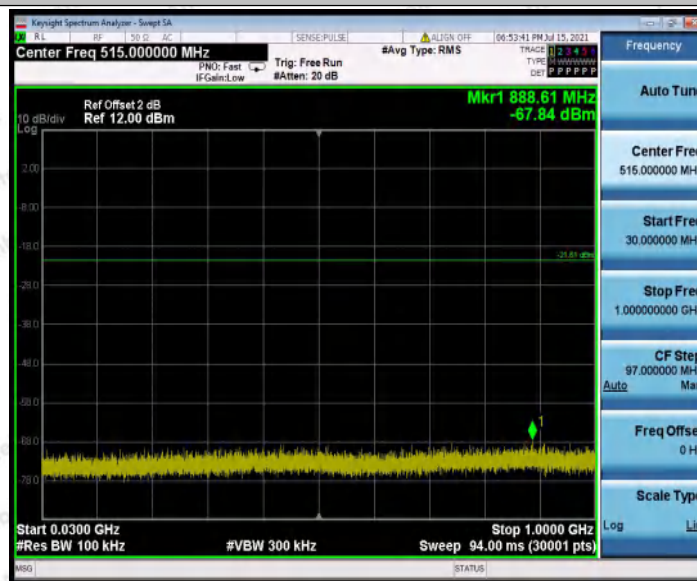
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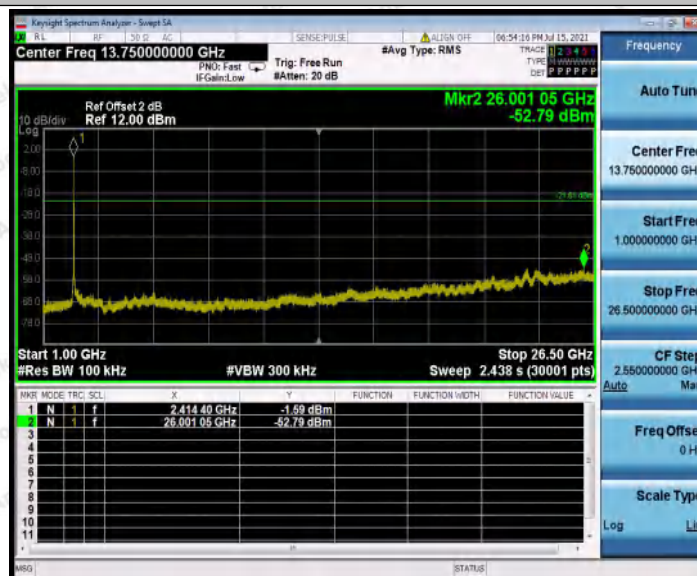
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11N20_Ant2_2412_30~1000



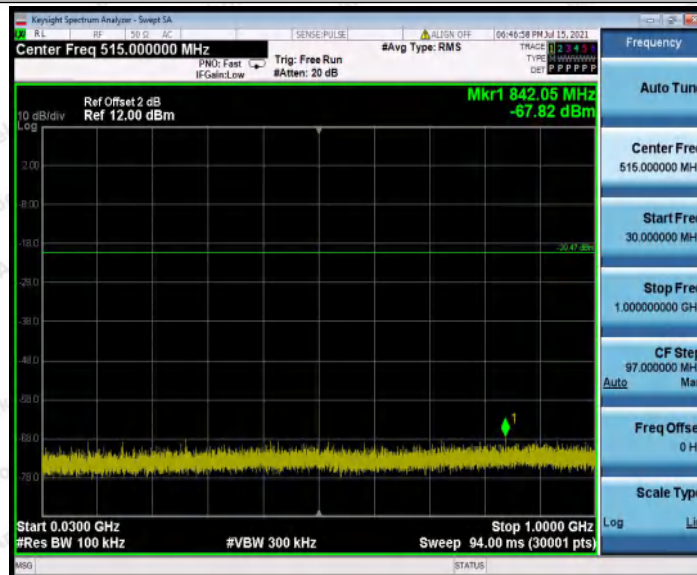
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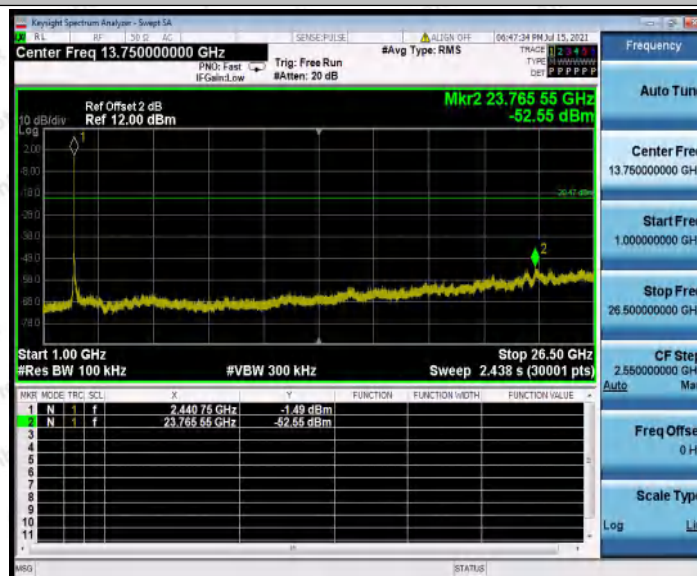
11N20_Ant1_2437_0~Reference



11N20_Ant1_2437_30~1000



11N20_Ant1_2437_1000~26500



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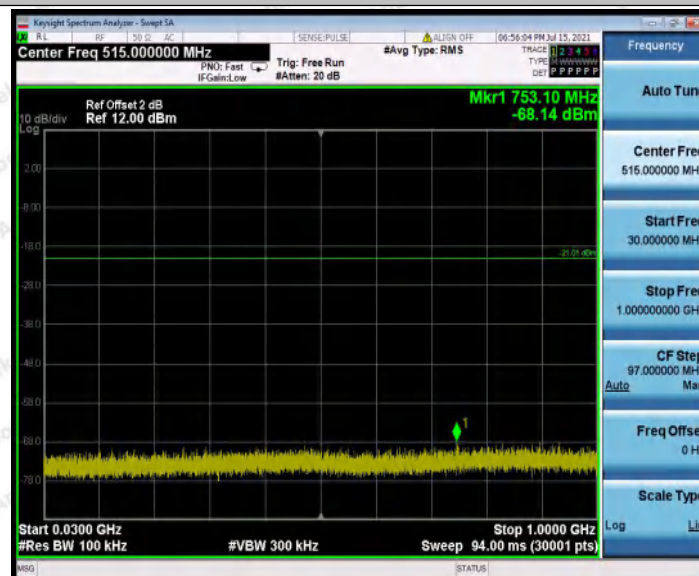
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11N20_Ant2_2437_0~Reference



11N20_Ant2_2437_30~1000

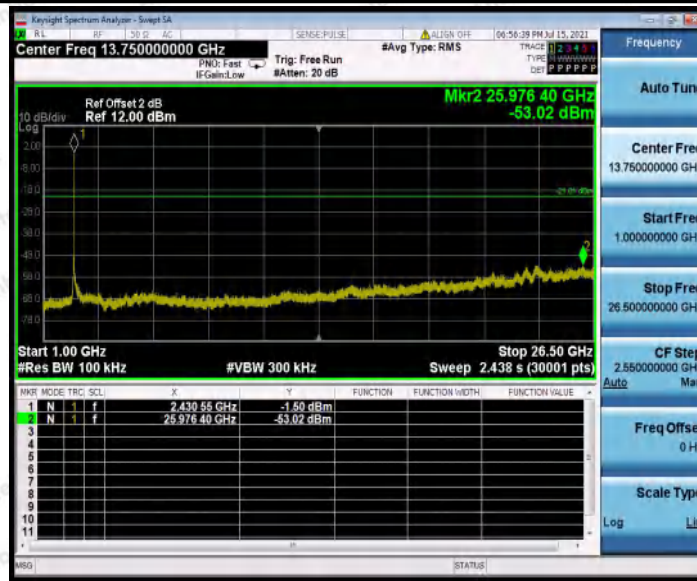


11N20_Ant2_2437_1000~26500

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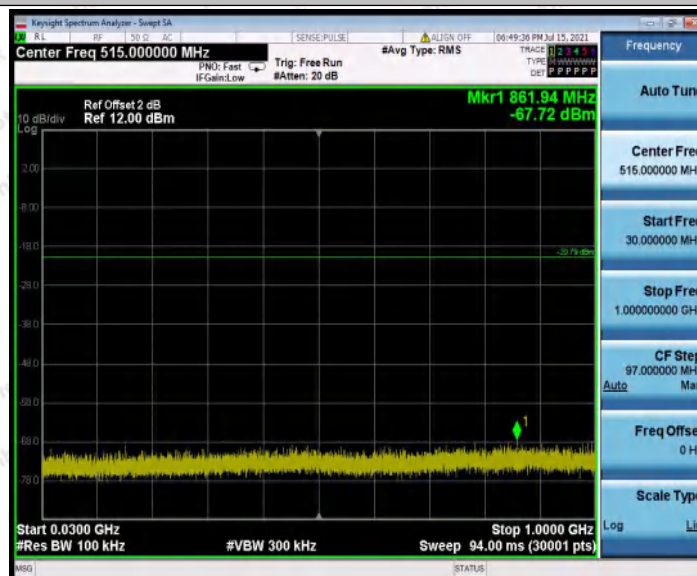
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11N20_Ant1_2462_0~Reference



11N20_Ant1_2462_30~1000



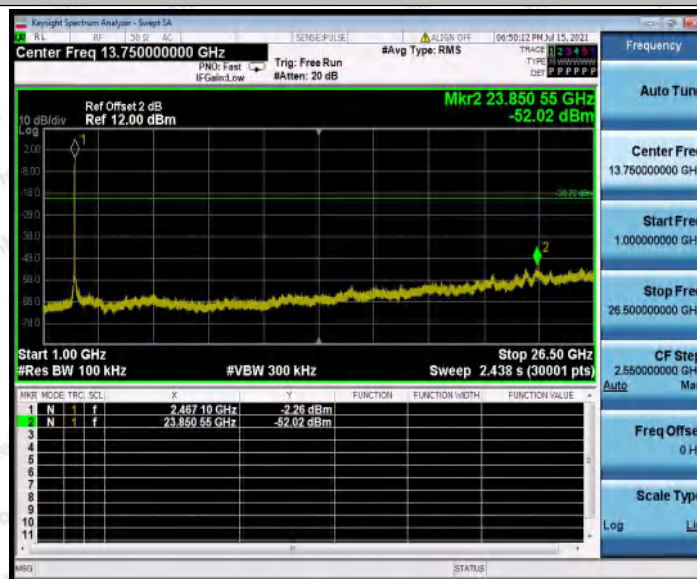
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11N20_Ant1_2462_1000~26500



11N20_Ant2_2462_0~Reference



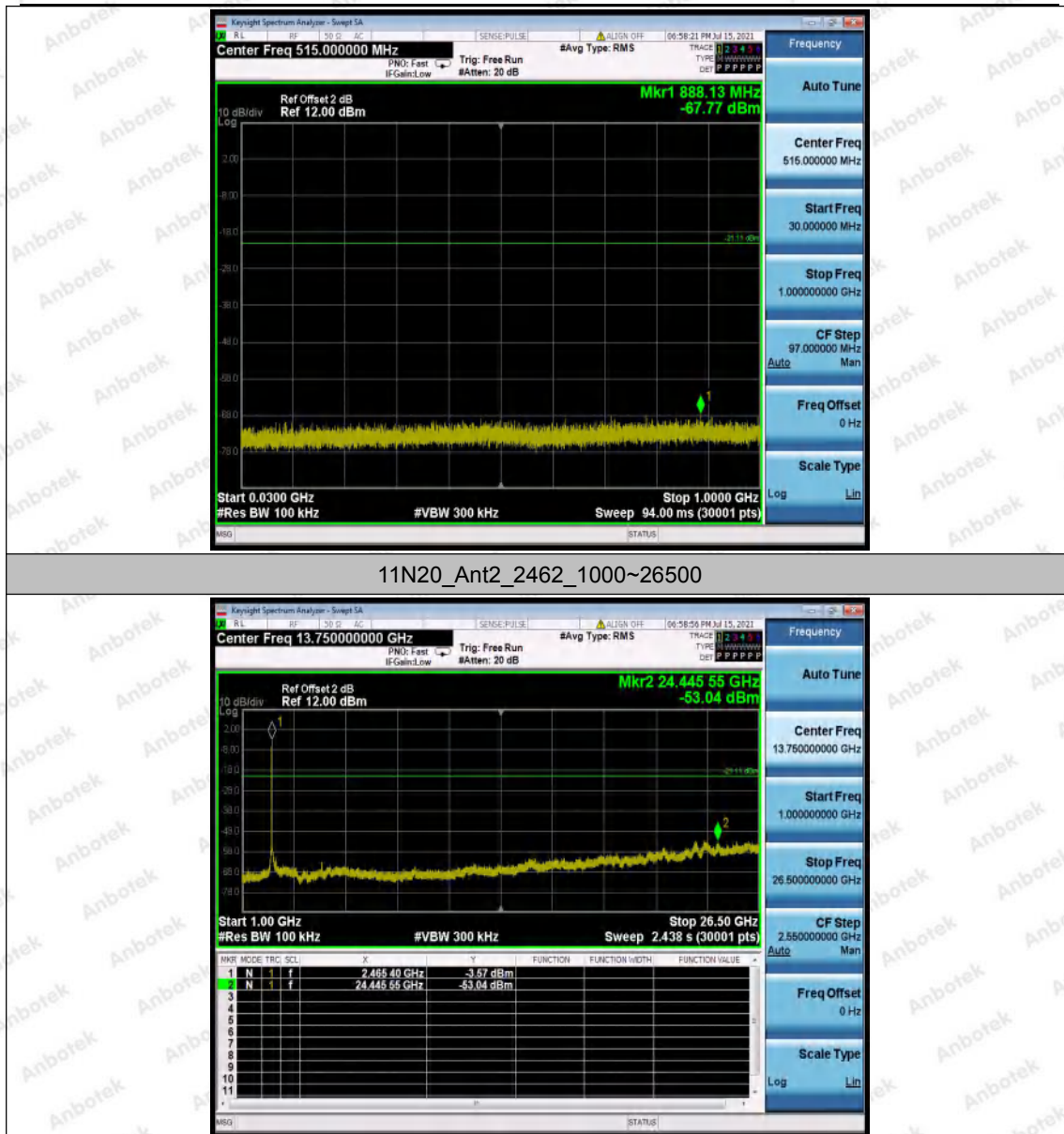
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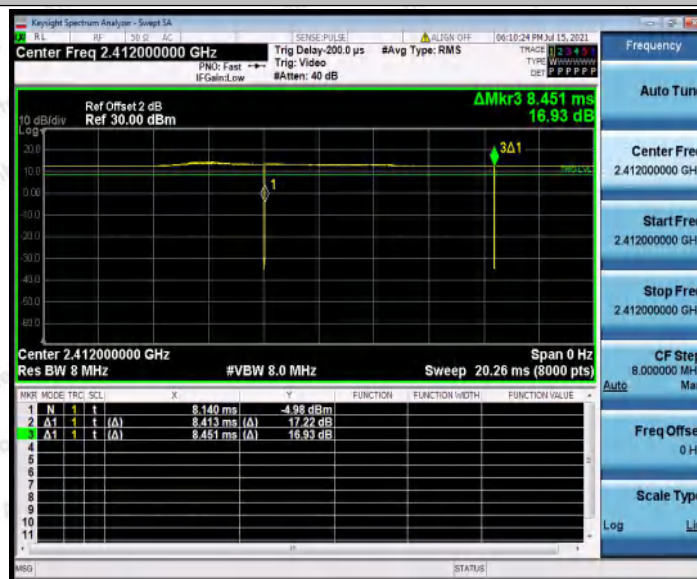
Appendix G: Duty Cycle

Test Result

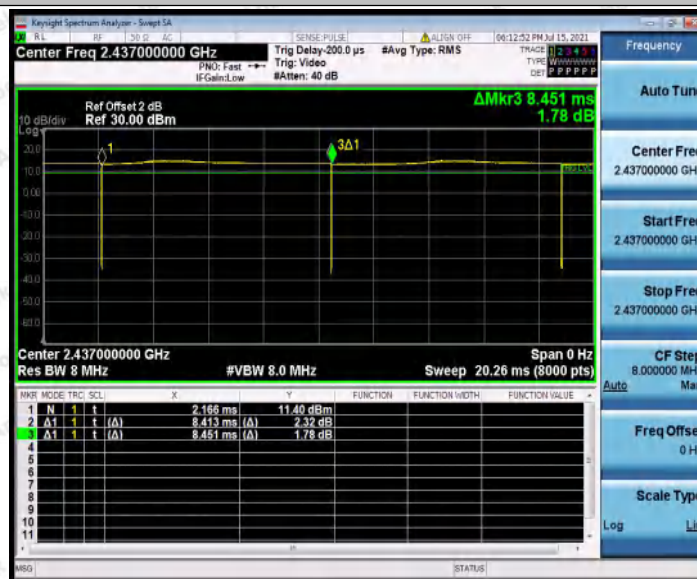
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.41	8.45	99.53	---	PASS
		2437	8.41	8.45	99.53	---	PASS
		2462	8.41	8.45	99.53	---	PASS
11G	Ant1	2412	1.39	1.44	96.53	---	PASS
		2437	1.39	1.44	96.53	---	PASS
		2462	1.39	1.44	96.53	---	PASS
11N20	Ant1	2412	1.30	1.35	96.30	---	PASS
		2437	1.30	1.35	96.30	---	PASS
		2462	1.30	1.35	96.30	---	PASS

Test Graphs

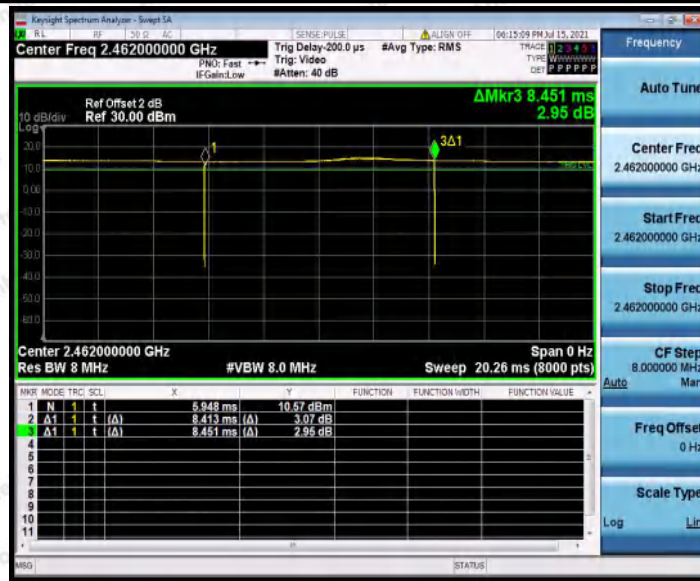
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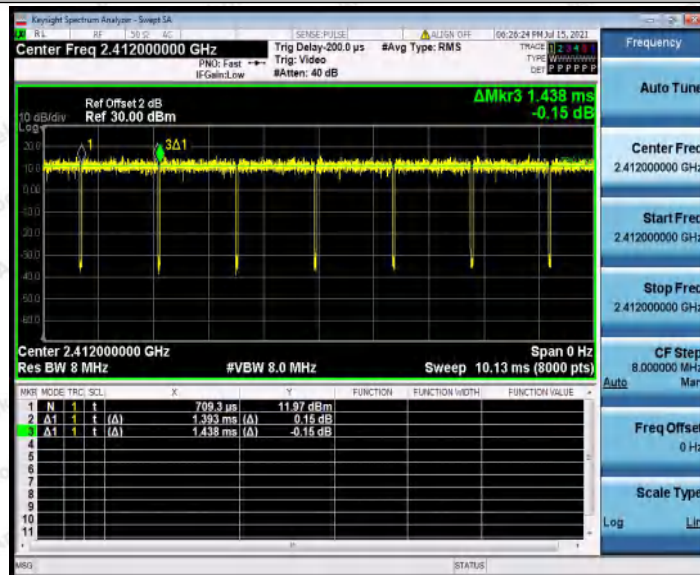
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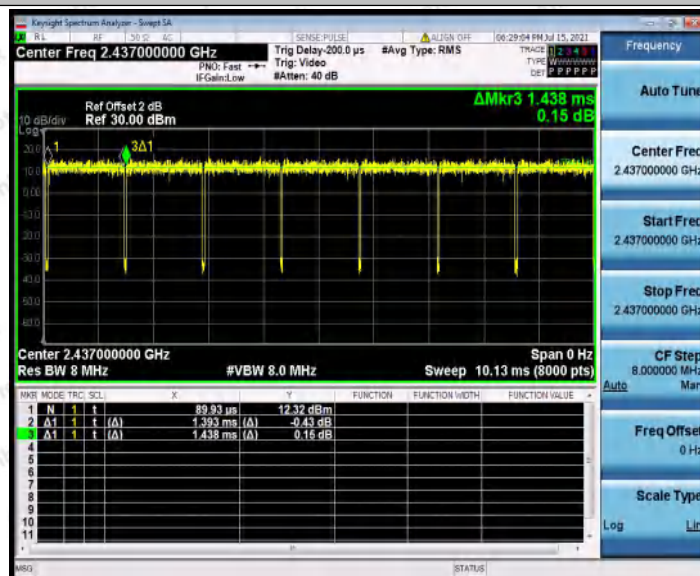
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



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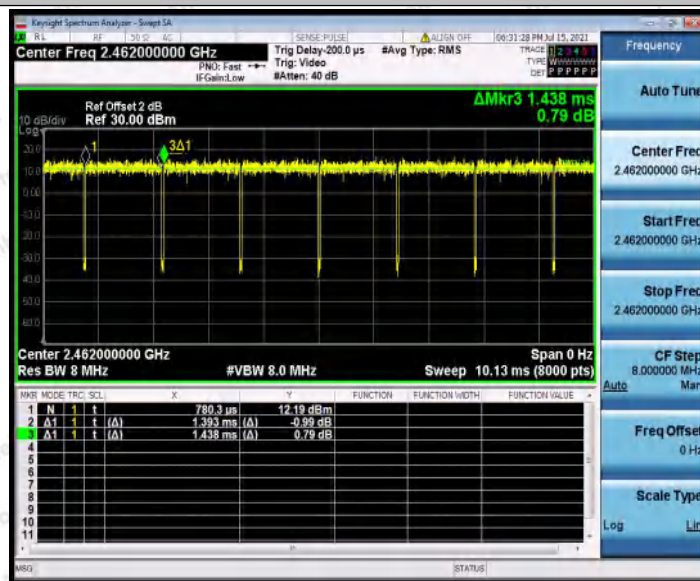


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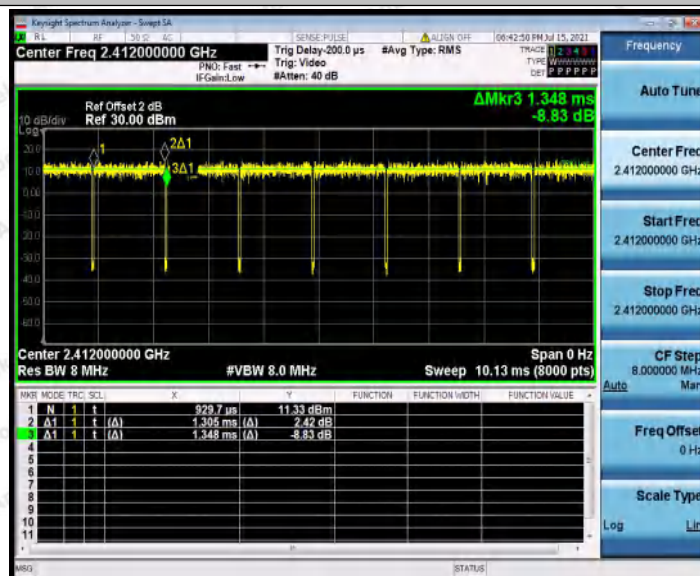
400-003-0500

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11G_Ant1_2462



11N20_Ant1_2412



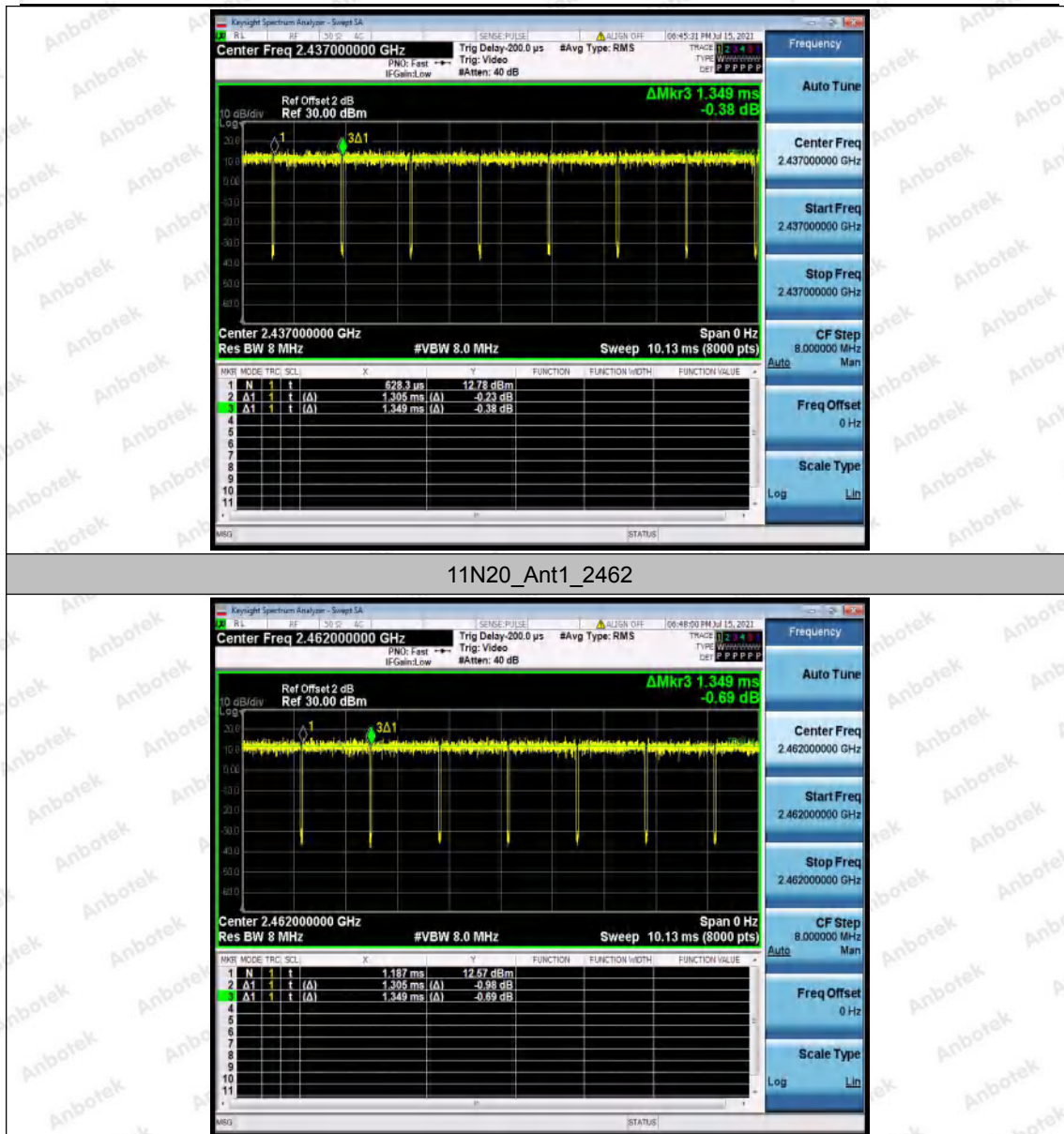
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