

Appendix Test Data

Report No.:	18220WC20262603	Test Sample No.:	1-2-2
Start Test Date:	2022.11.15	Finish Test Date:	2022.11.24
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

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	≥0.5	PASS
	Ant2	2412	10.080	2406.960	2417.040	≥0.5	PASS
	Ant1	2437	10.000	2431.960	2441.960	≥0.5	PASS
	Ant2	2437	10.000	2432.040	2442.040	≥0.5	PASS
	Ant1	2462	9.760	2457.040	2466.800	≥0.5	PASS
	Ant2	2462	10.080	2456.960	2467.040	≥0.5	PASS
11G	Ant1	2412	14.360	2405.120	2419.480	≥0.5	PASS
	Ant2	2412	14.440	2404.440	2418.880	≥0.5	PASS
	Ant1	2437	15.240	2429.480	2444.720	≥0.5	PASS
	Ant2	2437	13.200	2431.360	2444.560	≥0.5	PASS
	Ant1	2462	12.560	2455.760	2468.320	≥0.5	PASS
	Ant2	2462	14.600	2454.520	2469.120	≥0.5	PASS
11N20	Ant1	2412	13.840	2405.680	2419.520	≥0.5	PASS
	Ant2	2412	15.120	2404.440	2419.560	≥0.5	PASS
	Ant1	2437	15.080	2429.480	2444.560	≥0.5	PASS
	Ant2	2437	13.840	2429.480	2443.320	≥0.5	PASS
	Ant1	2462	15.000	2454.480	2469.480	≥0.5	PASS
	Ant2	2462	14.920	2454.560	2469.480	≥0.5	PASS
11N40	Ant1	2422	32.580	2406.940	2439.520	≥0.5	PASS
	Ant2	2422	33.780	2405.740	2439.520	≥0.5	PASS
	Ant1	2437	35.040	2419.480	2454.520	≥0.5	PASS
	Ant2	2437	35.040	2419.480	2454.520	≥0.5	PASS
	Ant1	2452	34.980	2434.480	2469.460	≥0.5	PASS
	Ant2	2452	33.840	2435.680	2469.520	≥0.5	PASS

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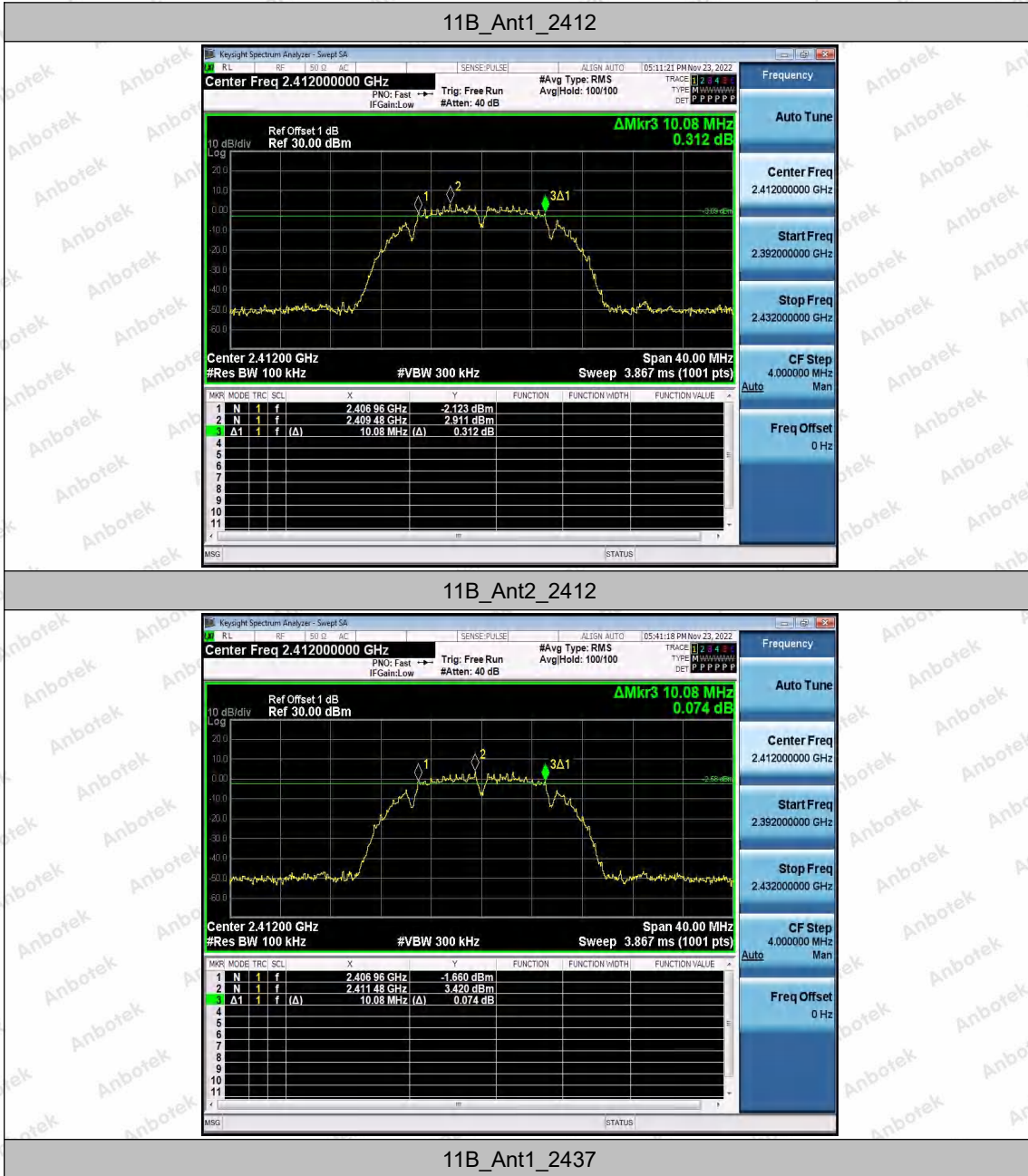
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Test Graphs



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11B_Ant2_2437



11B_Ant1_2462

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11B_Ant2_2462



11G_Ant1_2412

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11G_Ant2_2412



11G_Ant1_2437

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11G_Ant2_2437



11G_Ant1_2462

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11G_Ant2_2462



11N20_Ant1_2412

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11N20_Ant2_2412



11N20_Ant1_2437

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11N20_Ant2_2437



11N20_Ant1_2462

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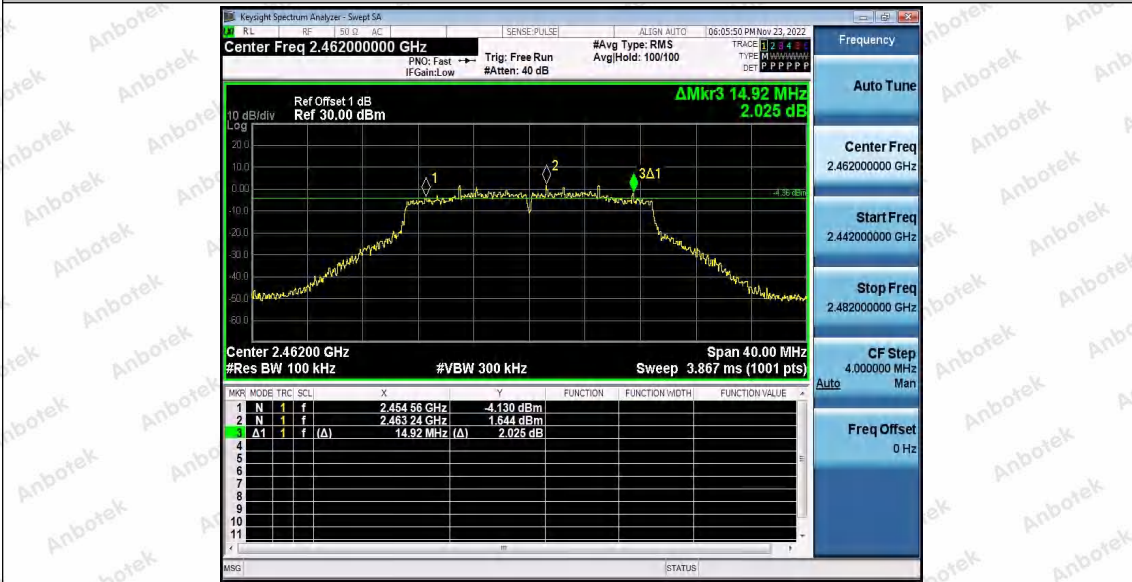
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11N20_Ant2_2462



11N40_Ant1_2422

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11N40_Ant2_2422



11N40_Ant1_2437

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11N40_Ant2_2437



11N40_Ant1_2452

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11N40_Ant2_2452



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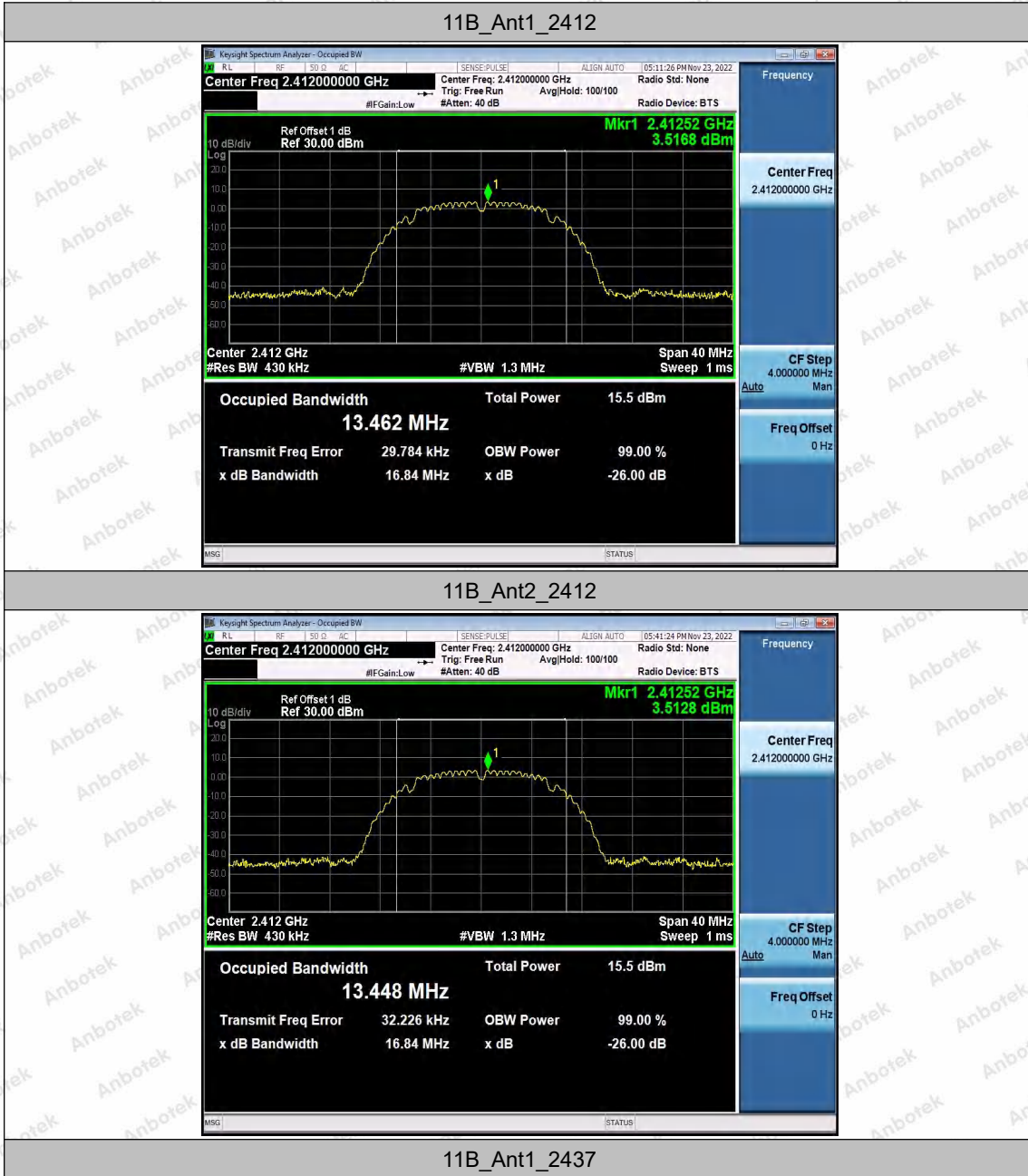
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]
11B	Ant1	2412	13.462	2405.2988	2418.7608
	Ant2	2412	13.448	2405.3082	2418.7562
	Ant1	2437	13.456	2430.3117	2443.7677
	Ant2	2437	13.466	2430.3068	2443.7728
	Ant1	2462	13.454	2455.3107	2468.7647
	Ant2	2462	13.457	2455.3139	2468.7709
11G	Ant1	2412	16.910	2403.5335	2420.4435
	Ant2	2412	16.805	2403.6538	2420.4588
	Ant1	2437	16.878	2428.6182	2445.4962
	Ant2	2437	16.810	2428.6872	2445.4972
	Ant1	2462	16.983	2453.5526	2470.5356
	Ant2	2462	16.817	2453.6565	2470.4735
11N20	Ant1	2412	17.937	2403.0982	2421.0352
	Ant2	2412	17.908	2403.0826	2420.9906
	Ant1	2437	18.009	2428.0392	2446.0482
	Ant2	2437	17.940	2428.0716	2446.0116
	Ant1	2462	17.882	2453.1060	2470.9880
	Ant2	2462	17.910	2453.0856	2470.9956
11N40	Ant1	2422	35.986	2404.0643	2440.0503
	Ant2	2422	36.020	2404.0437	2440.0637
	Ant1	2437	36.050	2419.0349	2455.0849
	Ant2	2437	36.012	2419.0528	2455.0648
	Ant1	2452	35.954	2434.0734	2470.0274
	Ant2	2452	35.996	2434.0782	2470.0742



Test Graphs



11B_Ant1_2437

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11B_Ant2_2437



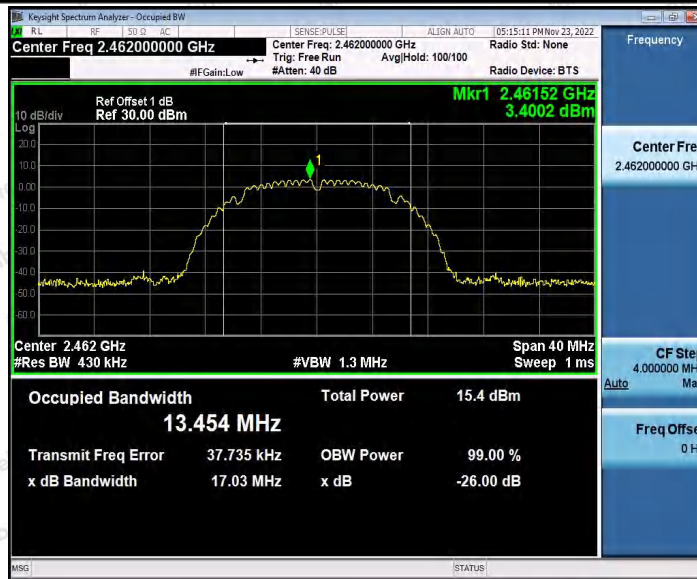
11B_Ant1_2462

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11B_Ant2_2462



11G_Ant1_2412

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11G_Ant2_2412



11G_Ant1_2437

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11G_Ant2_2437



11G_Ant1_2462

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11G_Ant2_2462



11N20_Ant1_2412

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11N20_Ant2_2412



11N20_Ant1_2437

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11N20_Ant2_2437



11N20_Ant1_2462

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11N20_Ant2_2462



11N40_Ant1_2422

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11N40_Ant2_2422



11N40_Ant1_2437

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11N40_Ant2_2437



11N40_Ant1_2452

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11N40_Ant2_2452



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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	15.46	≤30.00
	Ant2	2412	15.64	≤30.00
	Ant1	2437	15.53	≤30.00
	Ant2	2437	15.62	≤30.00
	Ant1	2462	15.44	≤30.00
	Ant2	2462	15.42	≤30.00
11G	Ant1	2412	19.56	≤30.00
	Ant2	2412	19.59	≤30.00
	Ant1	2437	19.64	≤30.00
	Ant2	2437	19.59	≤30.00
	Ant1	2462	19.56	≤30.00
	Ant2	2462	19.52	≤30.00
11N20	Ant1	2412	19.41	≤30.00
	Ant2	2412	19.47	≤30.00
	Ant1	2437	19.51	≤30.00
	Ant2	2437	19.45	≤30.00
	Ant1	2462	19.40	≤30.00
	Ant2	2462	19.41	≤30.00
11N40	Ant1	2422	15.73	≤30.00
	Ant2	2422	15.74	≤30.00
	Ant1	2437	17.50	≤30.00
	Ant2	2437	17.48	≤30.00
	Ant1	2452	15.86	≤30.00
	Ant2	2452	15.91	≤30.00

MINO

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11N20	Ant1+Ant2	2412	22.45	≤30.00
	Ant1+Ant2	2437	22.49	≤30.00
	Ant1+Ant2	2462	22.42	≤30.00
11N40	Ant1+Ant2	2422	18.75	≤30.00
	Ant1+Ant2	2437	20.50	≤30.00
	Ant1+Ant2	2452	18.90	≤30.00

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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.95	≤8.00	PASS
	Ant2	2412	-10.12	≤8.00	PASS
	Ant1	2437	-10.89	≤8.00	PASS
	Ant2	2437	-10.35	≤8.00	PASS
	Ant1	2462	-11.16	≤8.00	PASS
	Ant2	2462	-10.83	≤8.00	PASS
11G	Ant1	2412	-11.57	≤8.00	PASS
	Ant2	2412	-12.14	≤8.00	PASS
	Ant1	2437	-11.76	≤8.00	PASS
	Ant2	2437	-12.21	≤8.00	PASS
	Ant1	2462	-10.95	≤8.00	PASS
	Ant2	2462	-10.56	≤8.00	PASS
11N20	Ant1	2412	-12.39	≤8.00	PASS
	Ant2	2412	-12.77	≤8.00	PASS
	Ant1	2437	-11.12	≤8.00	PASS
	Ant2	2437	-11.49	≤8.00	PASS
	Ant1	2462	-12.64	≤8.00	PASS
	Ant2	2462	-11.36	≤8.00	PASS
11N40	Ant1	2422	-17.4	≤8.00	PASS
	Ant2	2422	-16.91	≤8.00	PASS
	Ant1	2437	-15.4	≤8.00	PASS
	Ant2	2437	-15.27	≤8.00	PASS
	Ant1	2452	-16.31	≤8.00	PASS
	Ant2	2452	-16.65	≤8.00	PASS

MINO

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20	Ant1+Ant2	2412	-9.57	≤8.00	PASS
	Ant1+Ant2	2437	-8.29	≤8.00	PASS
	Ant1+Ant2	2462	-8.94	≤8.00	PASS
11N40	Ant1+Ant2	2422	-14.14	≤8.00	PASS
	Ant1+Ant2	2437	-12.32	≤8.00	PASS
	Ant1+Ant2	2452	-13.47	≤8.00	PASS

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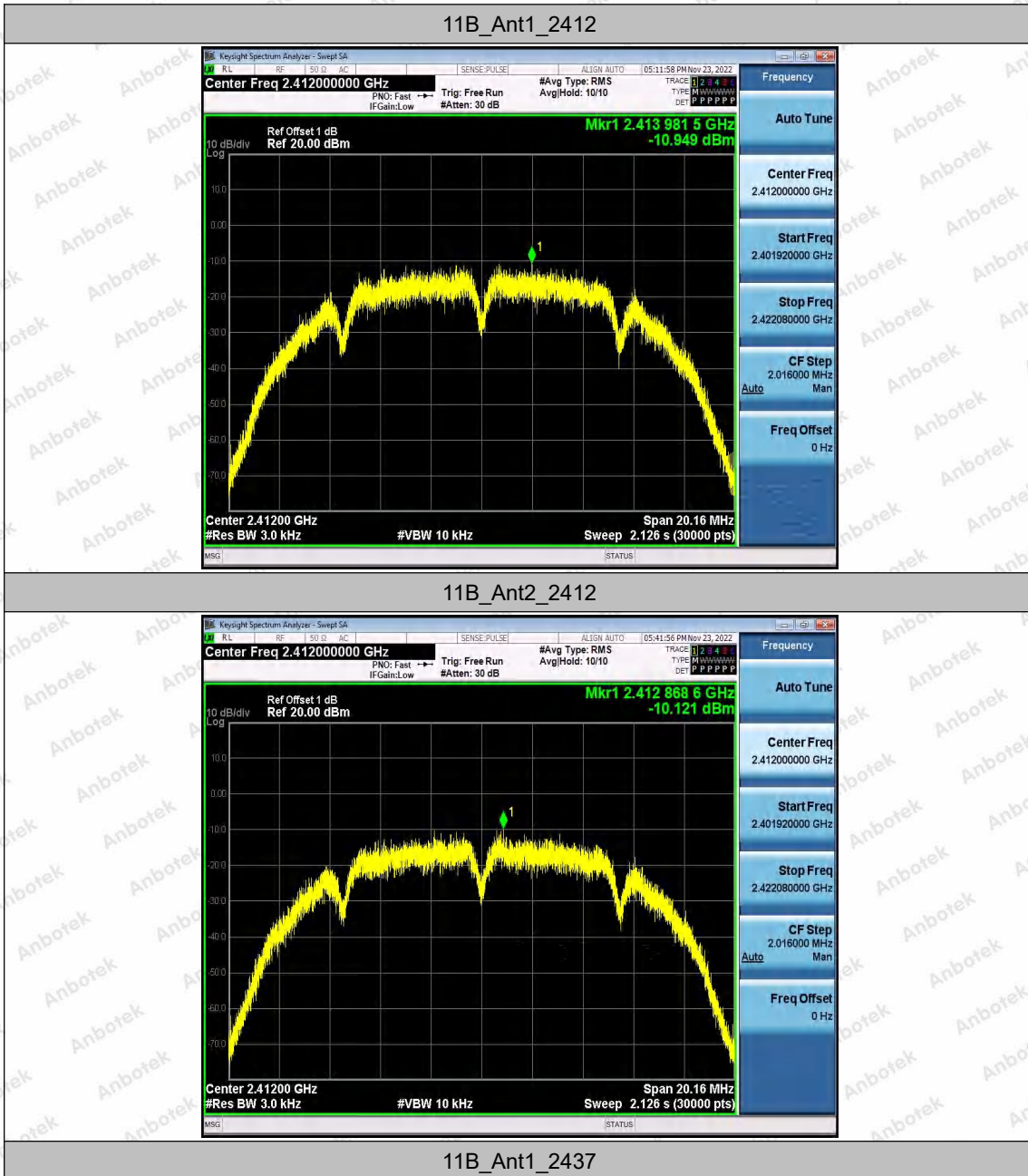
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Test Graphs



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11B_Ant2_2437



11B_Ant1_2462

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11B_Ant2_2462



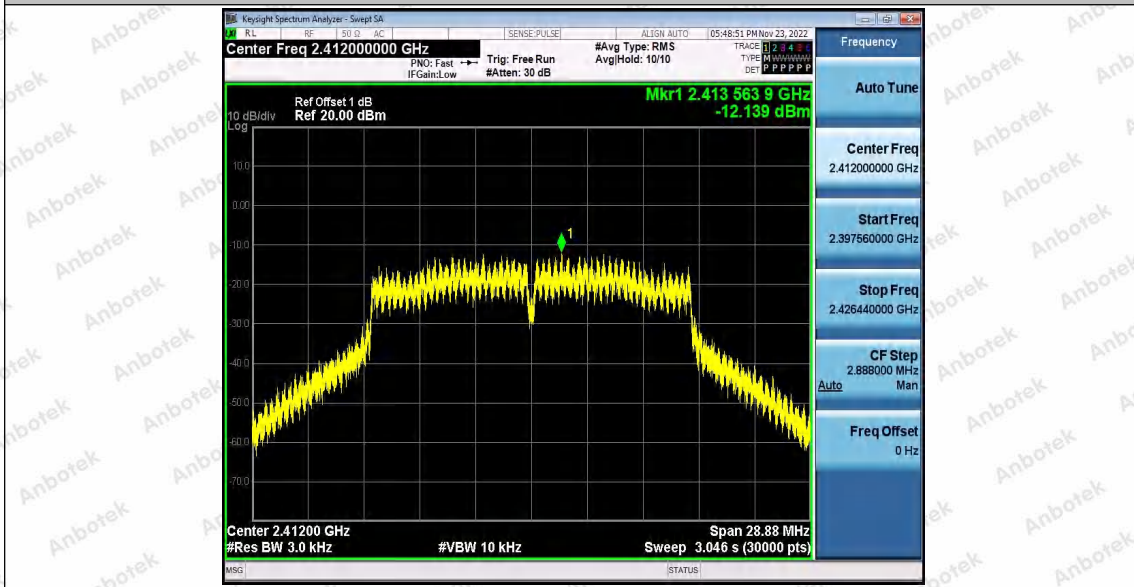
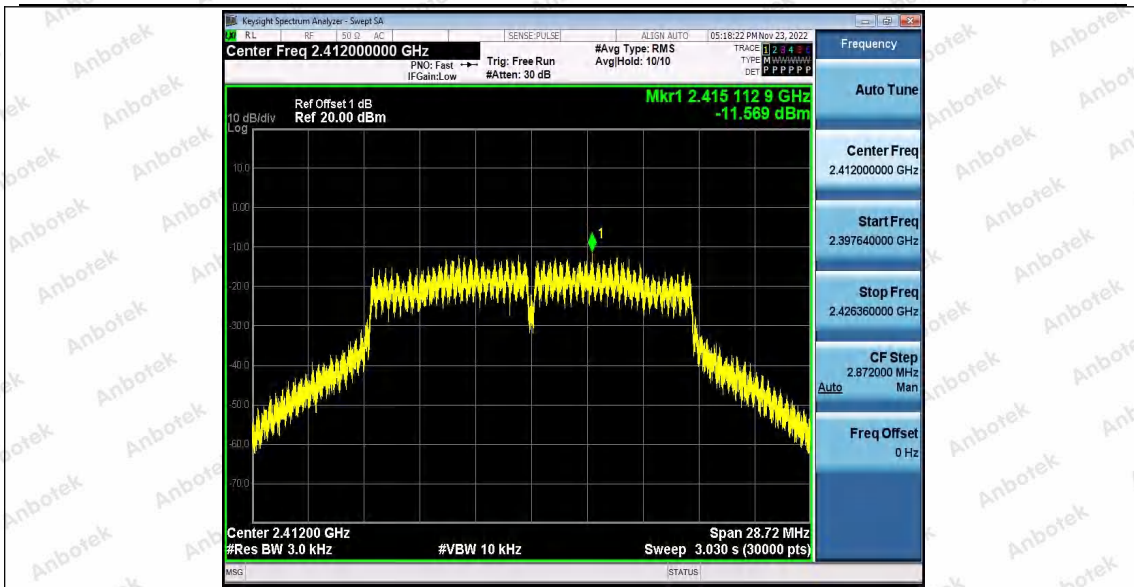
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11G_Ant2_2437



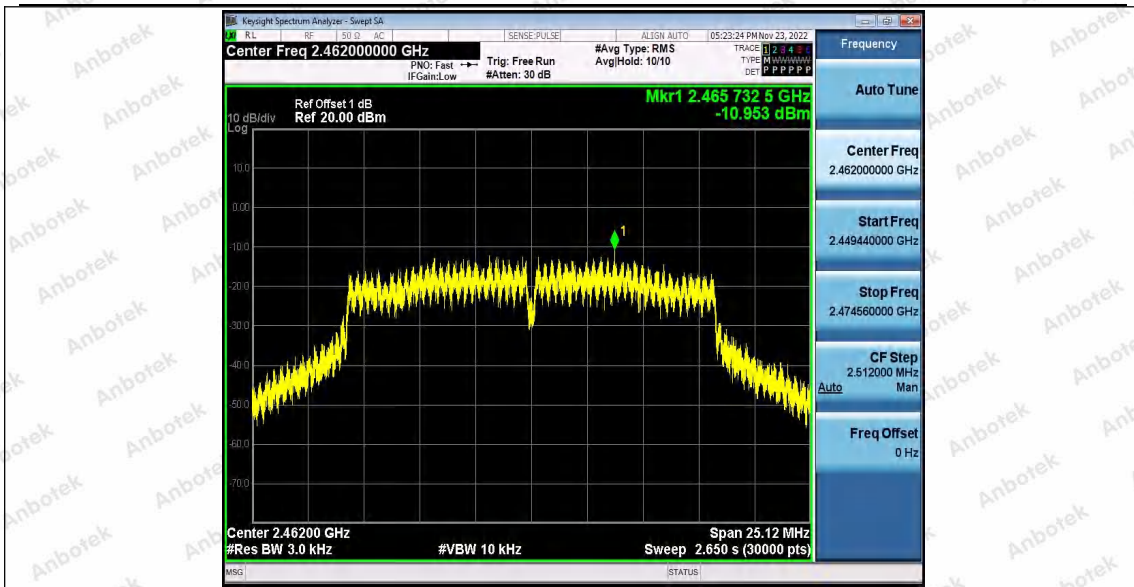
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11G_Ant2_2462



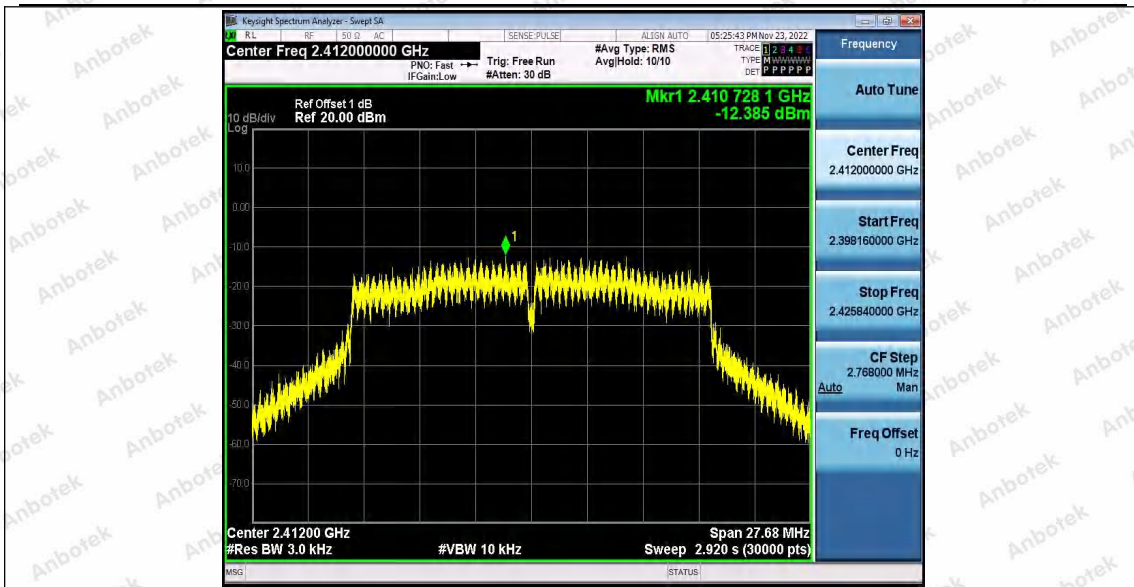
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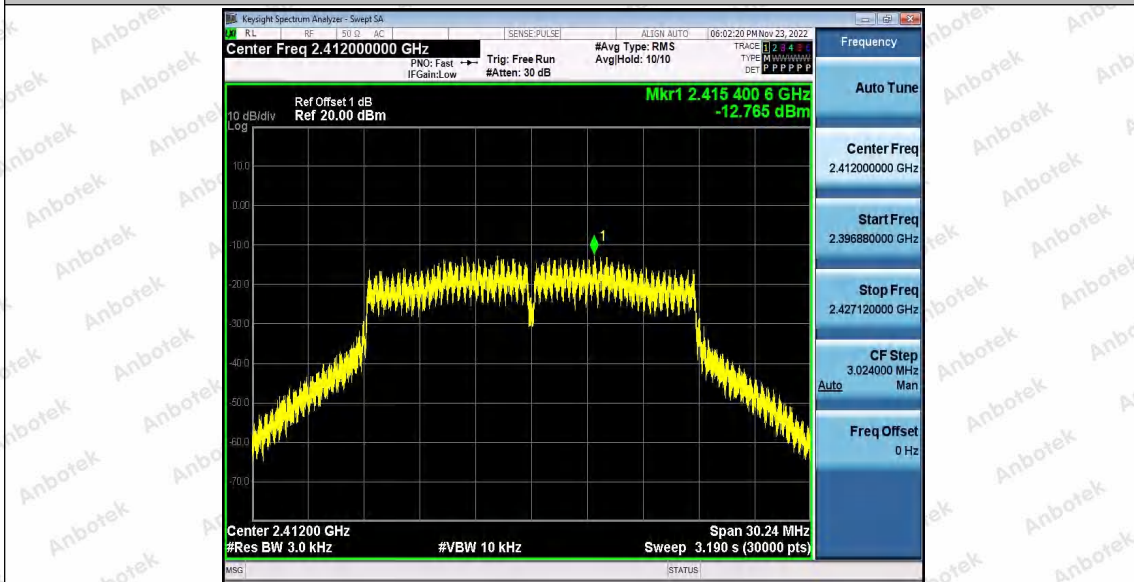
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11N20_Ant2_2412



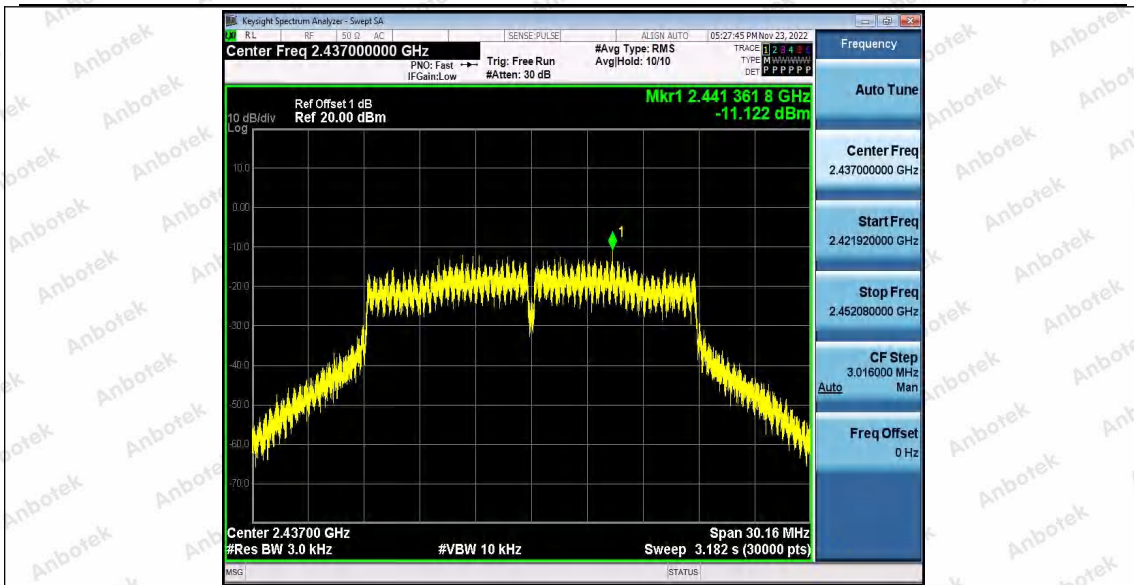
11N20_Ant1_2437

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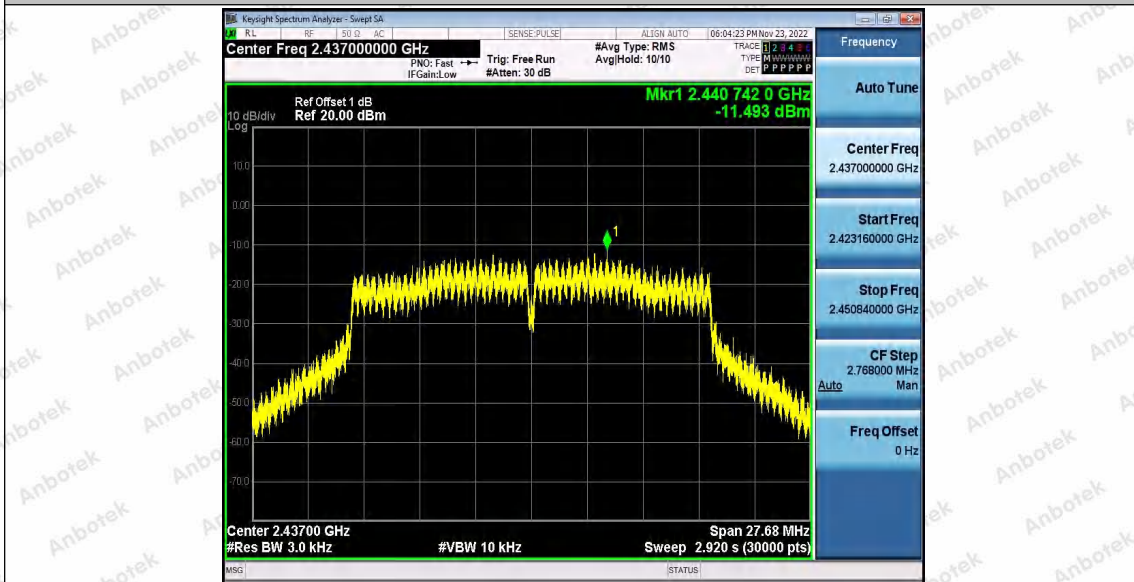
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11N20_Ant2_2437



11N20_Ant1_2462

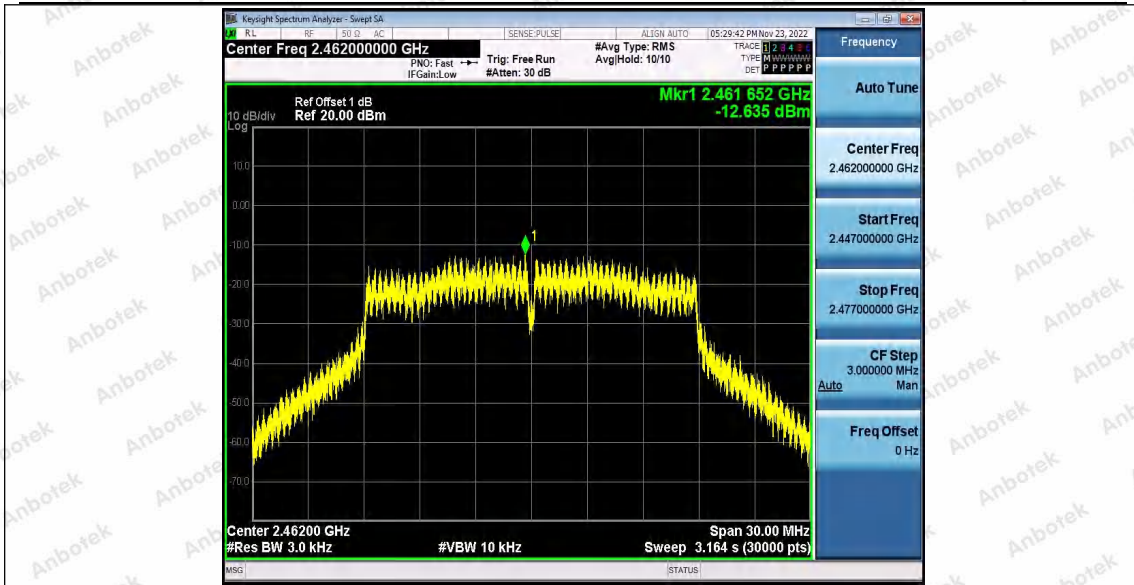
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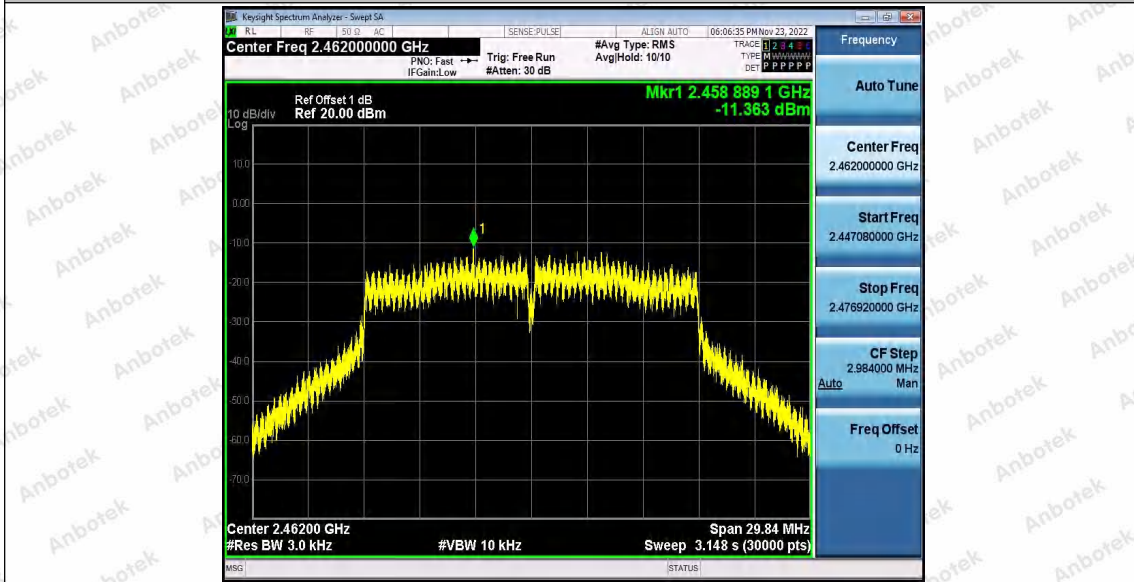


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11N20_Ant2_2462



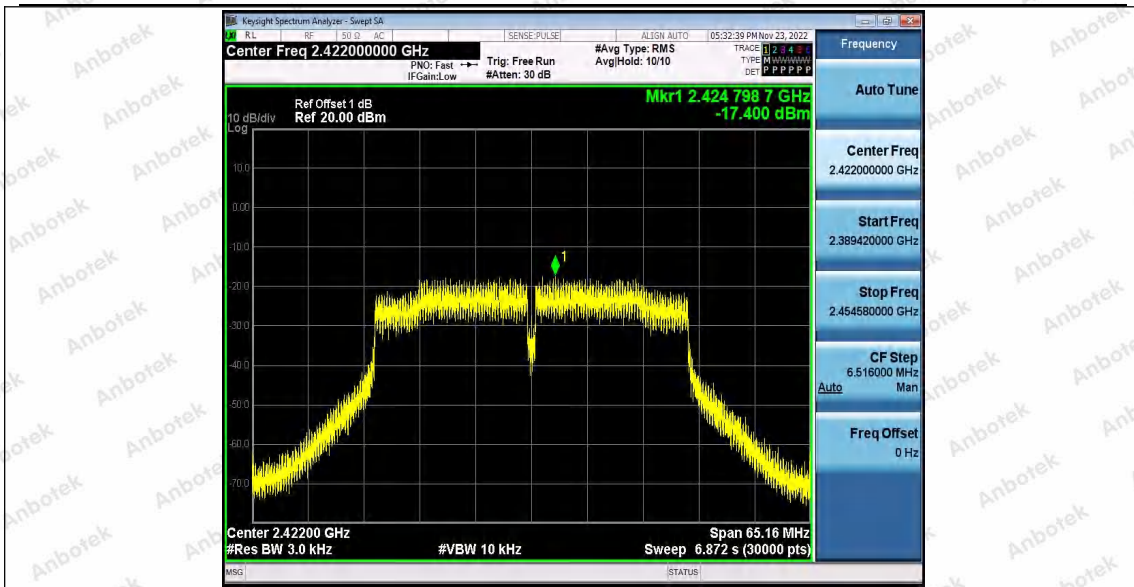
11N40_Ant1_2422

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11N40_Ant2_2422



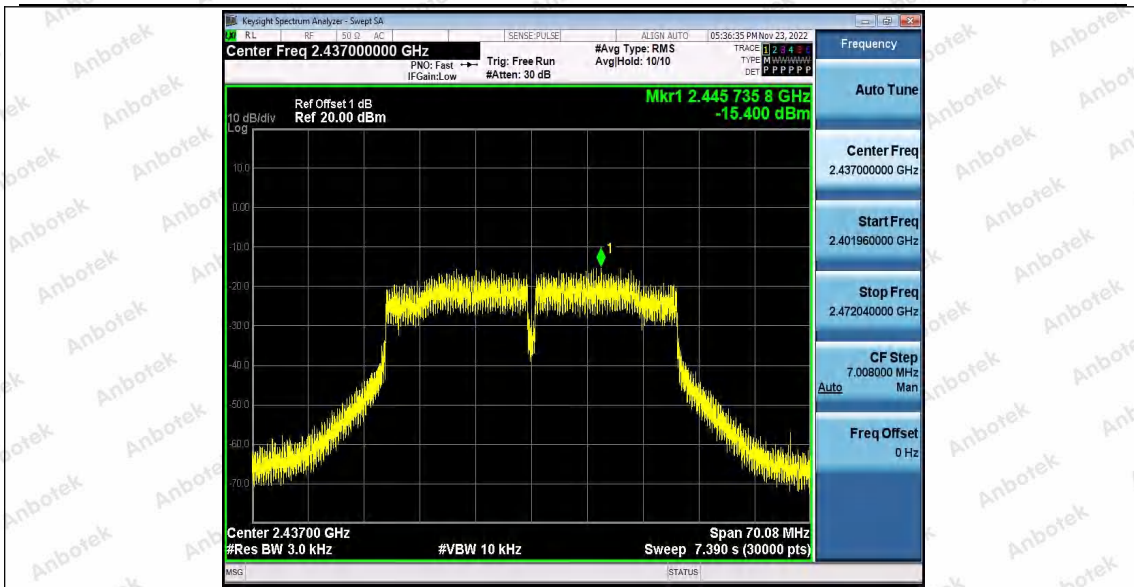
11N40_Ant1_2437

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11N40_Ant2_2437



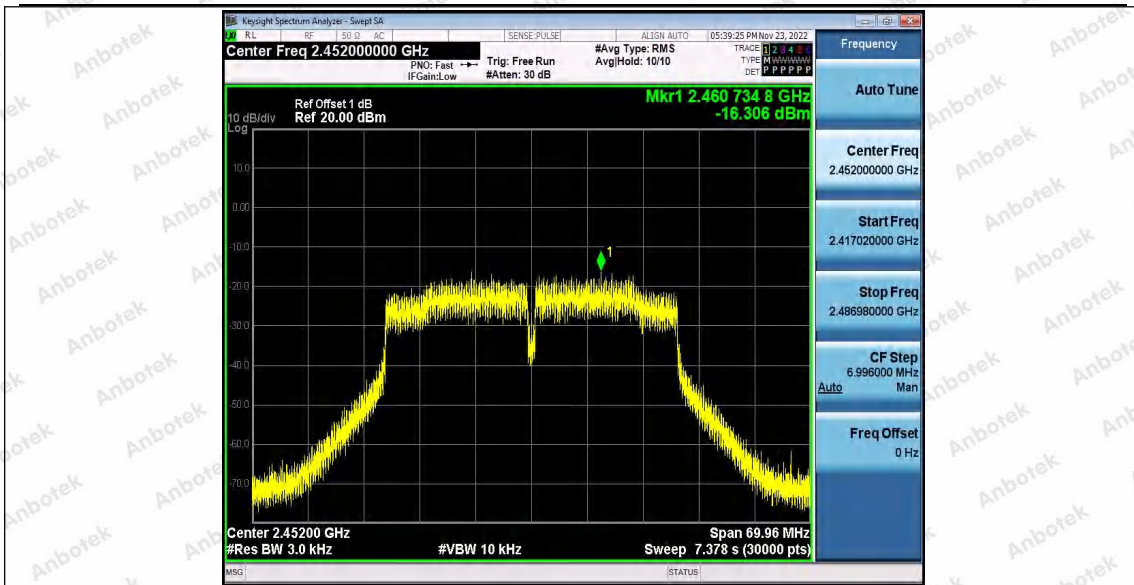
11N40_Ant1_2452

Shenzhen Anbotek Compliance Laboratory Limited

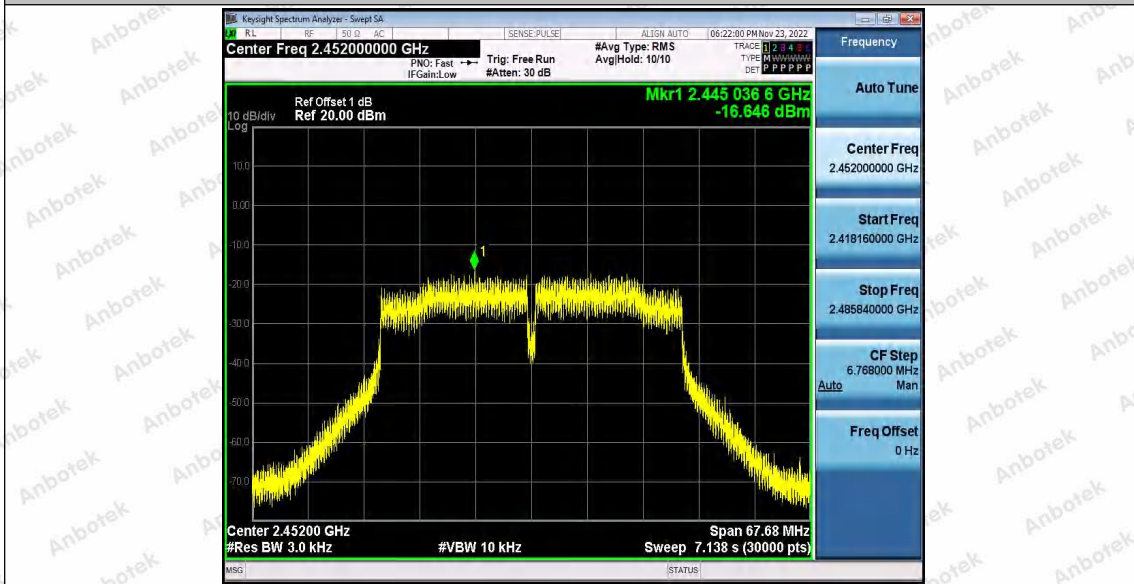
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N40_Ant2_2452



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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.00	-48.47	≤-17.01	PASS
	Ant2	Low	2412	2.92	-47.99	≤-17.08	PASS
	Ant1	High	2462	2.86	-56.85	≤-17.14	PASS
	Ant2	High	2462	2.76	-52.93	≤-17.25	PASS
11G	Ant1	Low	2412	2.17	-27.78	≤-17.83	PASS
	Ant2	Low	2412	2.03	-28.27	≤-17.98	PASS
	Ant1	High	2462	2.44	-53.7	≤-17.56	PASS
	Ant2	High	2462	2.50	-54.99	≤-17.5	PASS
11N20	Ant1	Low	2412	2.25	-26.77	≤-17.75	PASS
	Ant2	Low	2412	2.20	-27.86	≤-17.81	PASS
	Ant1	High	2462	1.73	-53.23	≤-18.27	PASS
	Ant2	High	2462	2.46	-54.41	≤-17.54	PASS
11N40	Ant1	Low	2422	-2.69	-33.56	≤-22.69	PASS
	Ant2	Low	2422	-2.76	-32.88	≤-22.76	PASS
	Ant1	High	2452	-2.44	-47.61	≤-22.44	PASS
	Ant2	High	2452	-2.39	-45.27	≤-22.39	PASS

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Test Graphs



11B_Ant1_High_2462

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11B_Ant2_High_2462



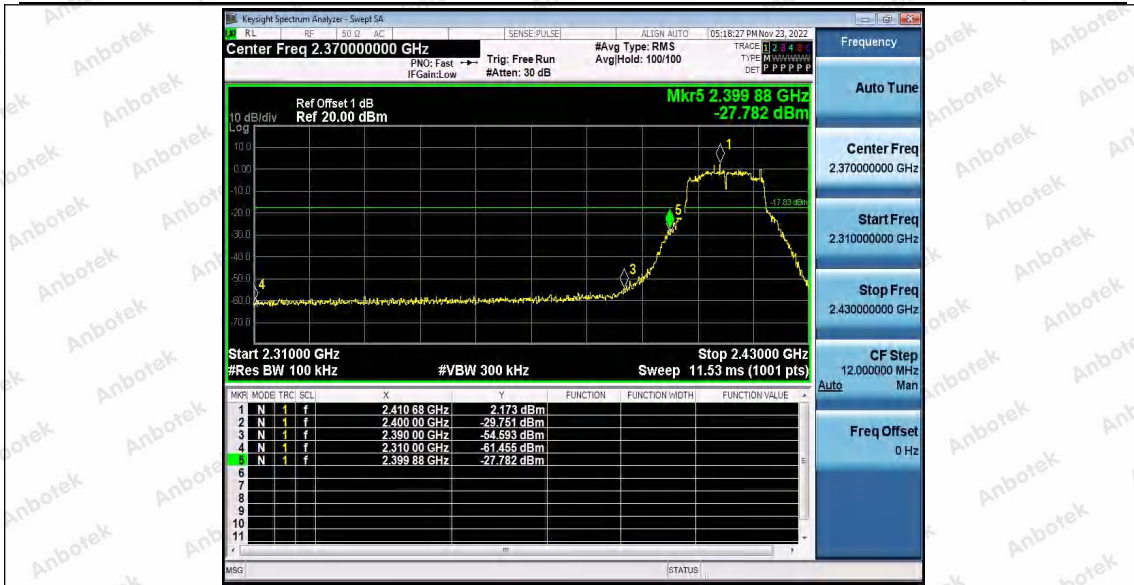
11G_Ant1_Low_2412

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11G_Ant2_Low_2412



11G_Ant1_High_2462

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11G_Ant2_High_2462



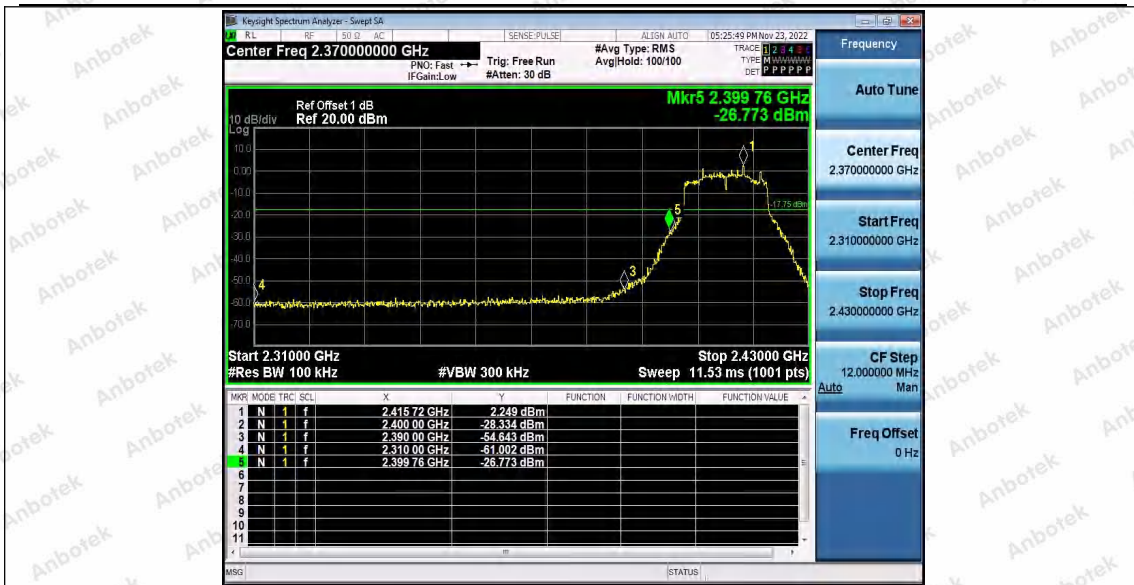
11N20_Ant1_Low_2412

Shenzhen Anbotek Compliance Laboratory Limited

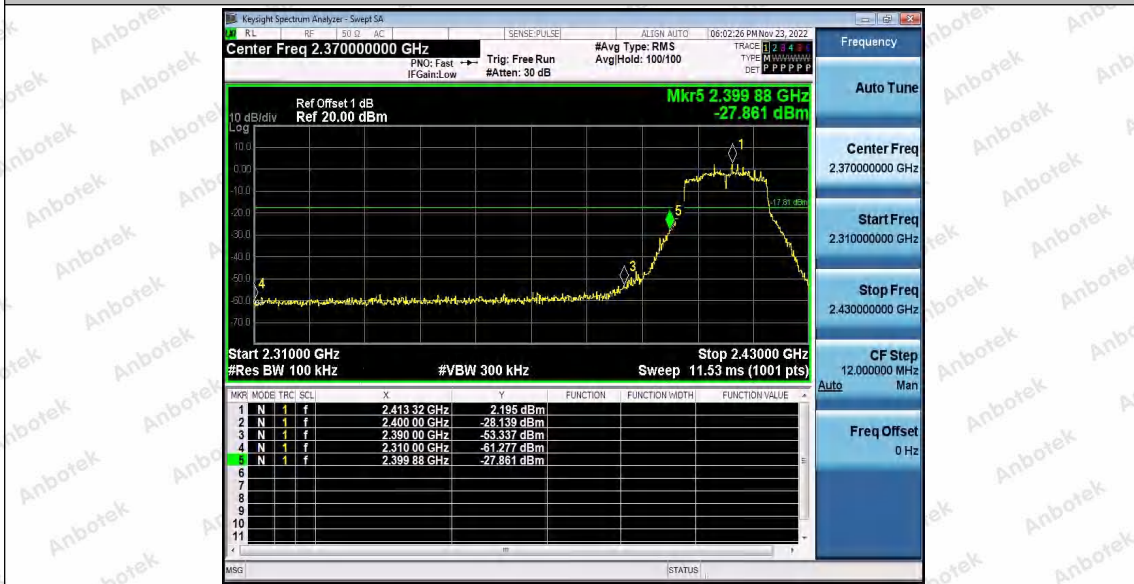
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N20_Ant2_Low_2412



11N20_Ant1_High_2462

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11N20_Ant2_High_2462



11N40_Ant1_Low_2422

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11N40_Ant2_Low_2422



11N40_Ant1_High_2452

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11N40_Ant2_High_2452



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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
11B	Ant1	2412	Reference	2.11	2.11	---	PASS	
			30~1000	2.11	-68.34	≤-17.89	PASS	
			1000~26500	2.11	-53.2	≤-17.89	PASS	
	Ant2	2412	Reference	2.33	2.33	---	PASS	
			30~1000	2.33	-67.83	≤-17.67	PASS	
			1000~26500	2.33	-53.71	≤-17.67	PASS	
	Ant1	2437	Reference	2.16	2.16	---	PASS	
			30~1000	2.16	-67.8	≤-17.84	PASS	
			1000~26500	2.16	-53.28	≤-17.84	PASS	
	Ant2	2437	Reference	2.12	2.12	---	PASS	
			30~1000	2.12	-68.4	≤-17.88	PASS	
			1000~26500	2.12	-52.4	≤-17.88	PASS	
	Ant1	2462	Reference	1.74	1.74	---	PASS	
			30~1000	1.74	-67.57	≤-18.26	PASS	
			1000~26500	1.74	-52.76	≤-18.26	PASS	
	Ant2	2462	Reference	3.10	3.10	---	PASS	
			30~1000	3.10	-68.93	≤-16.9	PASS	
			1000~26500	3.10	-52.41	≤-16.9	PASS	
	11G	Ant1	2412	Reference	-0.95	-0.95	---	PASS
				30~1000	-0.95	-68.18	≤-20.95	PASS
				1000~26500	-0.95	-53.8	≤-20.95	PASS
		Ant2	2412	Reference	-0.66	-0.66	---	PASS
				30~1000	-0.66	-68.17	≤-20.66	PASS
				1000~26500	-0.66	-52.94	≤-20.66	PASS
Ant1		2437	Reference	-1.15	-1.15	---	PASS	
			30~1000	-1.15	-68.79	≤-21.15	PASS	
			1000~26500	-1.15	-53.18	≤-21.15	PASS	
Ant2		2437	Reference	-1.13	-1.13	---	PASS	
			30~1000	-1.13	-67.29	≤-21.13	PASS	
			1000~26500	-1.13	-52.62	≤-21.13	PASS	
Ant1		2462	Reference	-0.87	-0.87	---	PASS	
			30~1000	-0.87	-67.71	≤-20.87	PASS	
			1000~26500	-0.87	-52.79	≤-20.87	PASS	
Ant2		2462	Reference	-1.22	-1.22	---	PASS	
			30~1000	-1.22	-69	≤-21.22	PASS	
			1000~26500	-1.22	-53.2	≤-21.22	PASS	

