



MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT

Test Mode	TX Mod.	Frequency [MHz]	Avg. power [dBm]	Peak power [dBm]	MAX Peak power [mw]	Limit [dBm]	EIRP [dBm]	EIRP [mw]	Limit [dBm]	Verdict	Power Setting
11B	SISO	2412	18.17	20.52	112.72	≤30.00	19.52	89.54	≤30.00	PASS	18
		2437	19.12	21.25	133.35	≤30.00	20.25	105.93	≤30.00	PASS	18.5
		2462	19.18	21.32	135.52	≤30.00	20.32	107.65	≤30.00	PASS	18.5
11g	SISO	2412	18.28	24.56	285.76	≤30.00	23.56	226.99	≤30.00	PASS	18
		2437	17.99	23.97	249.46	≤30.00	22.97	198.15	≤30.00	PASS	18.5
		2462	17.14	23.77	238.23	≤30.00	22.77	189.23	≤30.00	PASS	16.5
11N20	SISO	2412	18.14	24.66	292.42	≤30.00	23.66	232.27	≤30.00	PASS	18
		2437	17.79	24.1	257.04	≤30.00	23.1	204.17	≤30.00	PASS	17.5
		2462	17.96	23.97	249.46	≤30.00	22.97	198.15	≤30.00	PASS	17.5

Note: EIRP = Peak Power + Gain



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MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-0.89	≤8.00	PASS
		2437	-1.81	≤8.00	PASS
		2462	-1.11	≤8.00	PASS
11G	Ant1	2412	-3.1	≤8.00	PASS
		2437	-3.3	≤8.00	PASS
		2462	-3.9	≤8.00	PASS
11N20SISO	Ant1	2412	-4.31	≤8.00	PASS
		2437	-4.75	≤8.00	PASS
		2462	-3.8	≤8.00	PASS



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TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



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11G_Ant1_2412

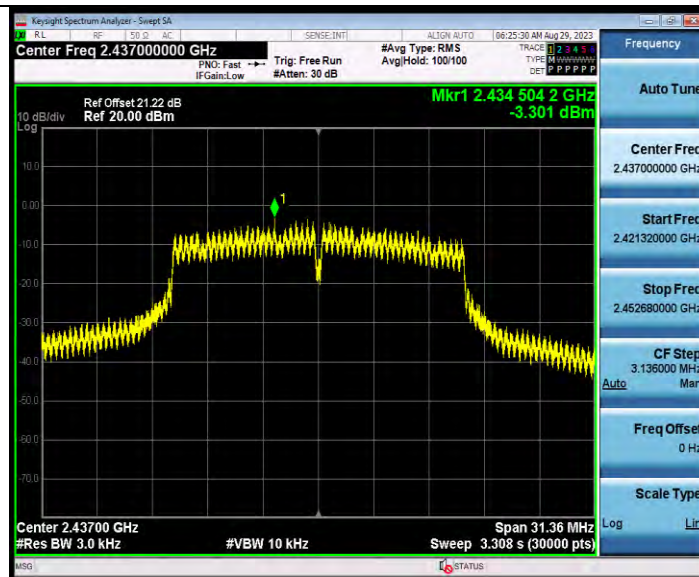


11G_Ant1_2437

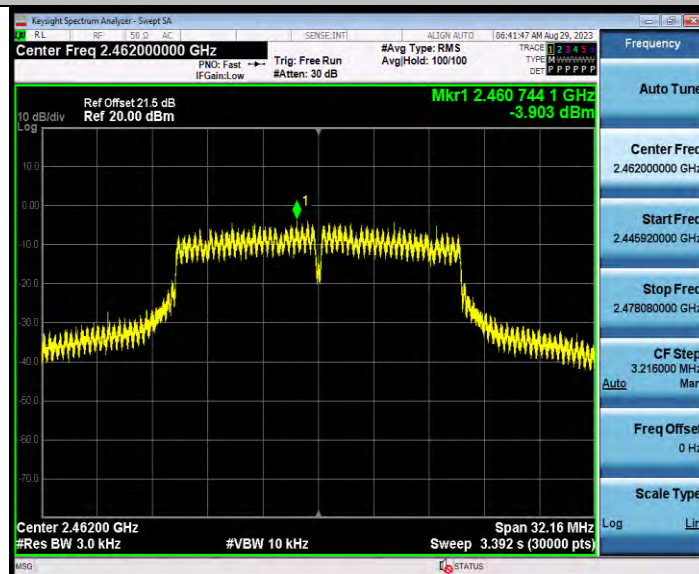


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11G_Ant1_2462



11N20SISO_Ant1_2412



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11N20SISO_Ant1_2437

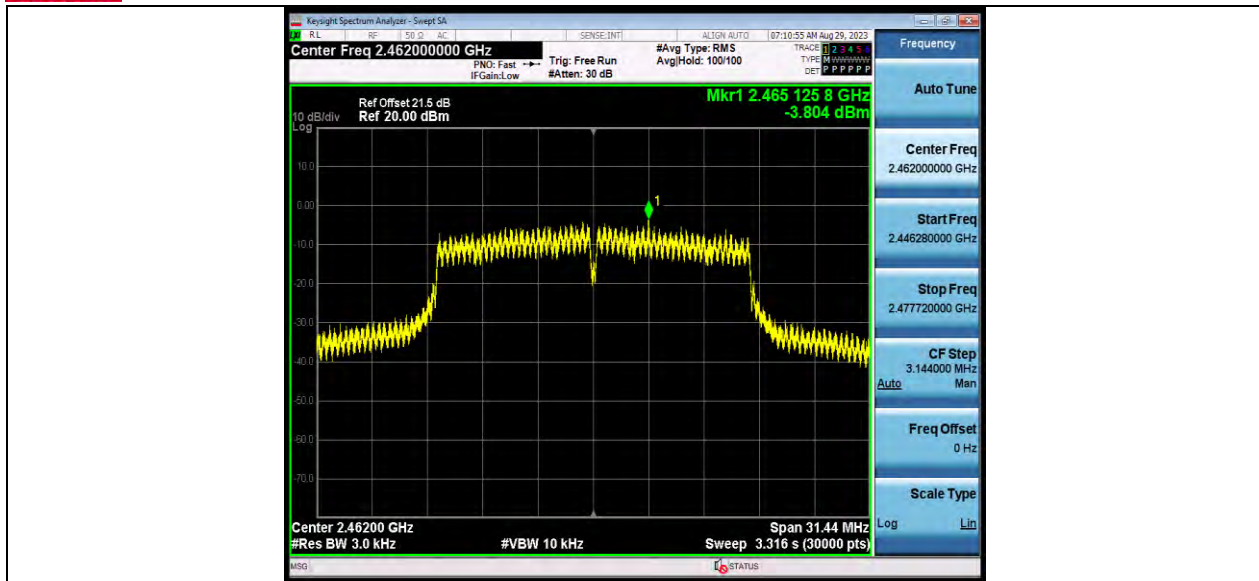


11N20SISO_Ant1_2462



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**BAND EDGE MEASUREMENTS****TEST RESULT**

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	10.98	-34.66	≤-9.02	PASS
		High	2462	10.91	-34.07	≤-9.09	PASS
11G	Ant1	Low	2412	9.37	-21.26	≤-10.63	PASS
		High	2462	9.16	-30.97	≤-10.84	PASS
11N20SISO	Ant1	Low	2412	8.80	-22.57	≤-11.2	PASS
		High	2462	8.92	-28.3	≤-11.08	PASS

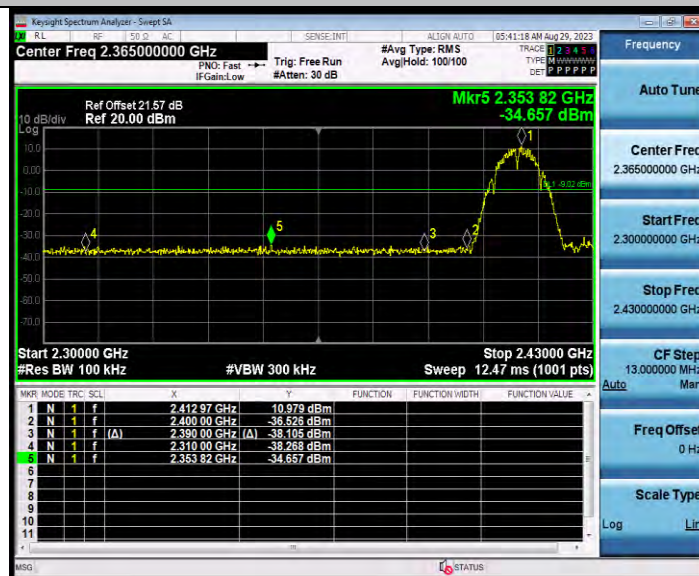


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TEST GRAPHS

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412



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11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



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11N20SISO_Ant1_High_2462



**CONDUCTED SPURIOUS EMISSION****TEST RESULT**

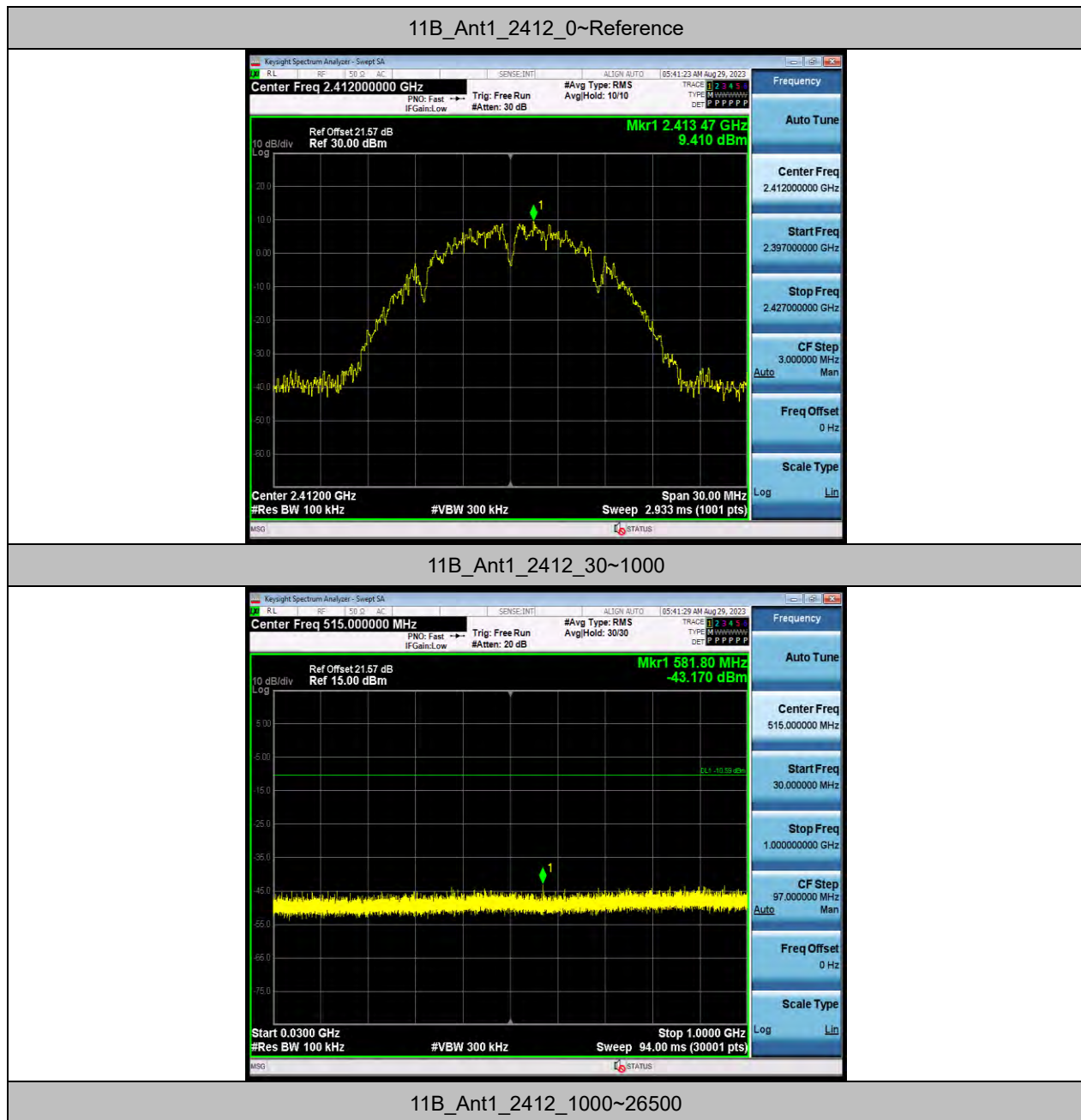
Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	9.41	9.41	---	PASS
			30~1000	9.41	-43.17	≤-10.59	PASS
			1000~26500	9.41	-23.82	≤-10.59	PASS
		2437	Reference	10.65	10.65	---	PASS
			30~1000	10.65	-42.66	≤-9.35	PASS
			1000~26500	10.65	-24.44	≤-9.35	PASS
		2462	Reference	11.22	11.22	---	PASS
			30~1000	11.22	-43.29	≤-8.78	PASS
			1000~26500	11.22	-23.94	≤-8.78	PASS
11G	Ant1	2412	Reference	8.83	8.83	---	PASS
			30~1000	8.83	-43.67	≤-11.17	PASS
			1000~26500	8.83	-24.47	≤-11.17	PASS
		2437	Reference	9.07	9.07	---	PASS
			30~1000	9.07	-43.34	≤-10.93	PASS
			1000~26500	9.07	-23.78	≤-10.93	PASS
		2462	Reference	6.03	6.03	---	PASS
			30~1000	6.03	-43.88	≤-13.97	PASS
			1000~26500	6.03	-23.64	≤-13.97	PASS
11N20SISO	Ant1	2412	Reference	7.38	7.38	---	PASS
			30~1000	7.38	-42.59	≤-12.62	PASS
			1000~26500	7.38	-23.52	≤-12.62	PASS
		2437	Reference	5.33	5.33	---	PASS
			30~1000	5.33	-44.13	≤-14.67	PASS
			1000~26500	5.33	-25.1	≤-14.67	PASS
		2462	Reference	8.60	8.60	---	PASS
			30~1000	8.60	-43.85	≤-11.4	PASS
			1000~26500	8.60	-24.23	≤-11.4	PASS



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TEST GRAPHS





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11B_Ant1_2437_0~Reference

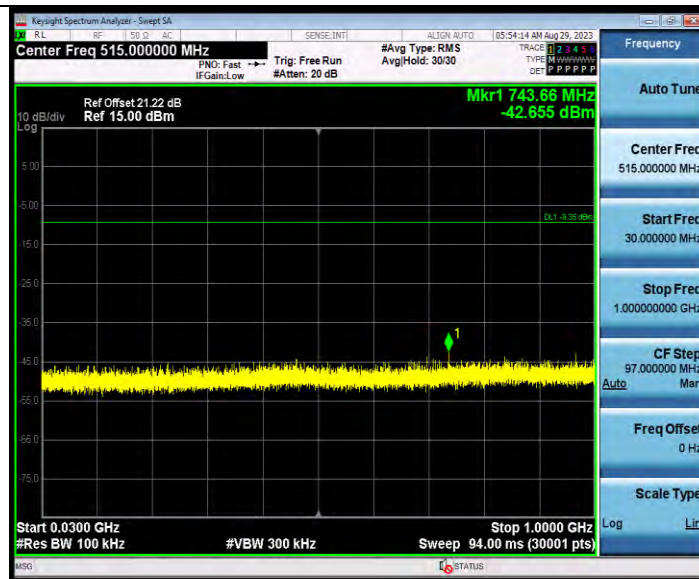


11B_Ant1_2437_30~1000



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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



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Test Report No.: W7L-P23080006RF02



11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



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Test Report No.: W7L-P23080006RF02



11G_Ant1_2412_0~Reference

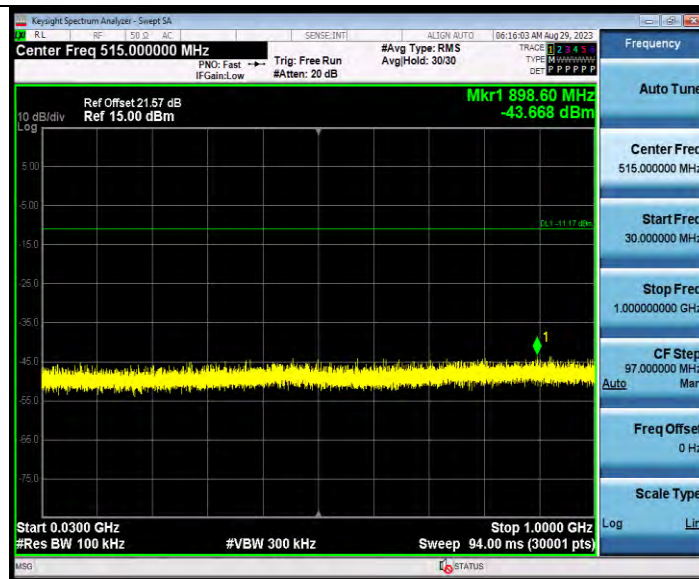


11G_Ant1_2412_30~1000



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Test Report No.: W7L-P23080006RF02



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

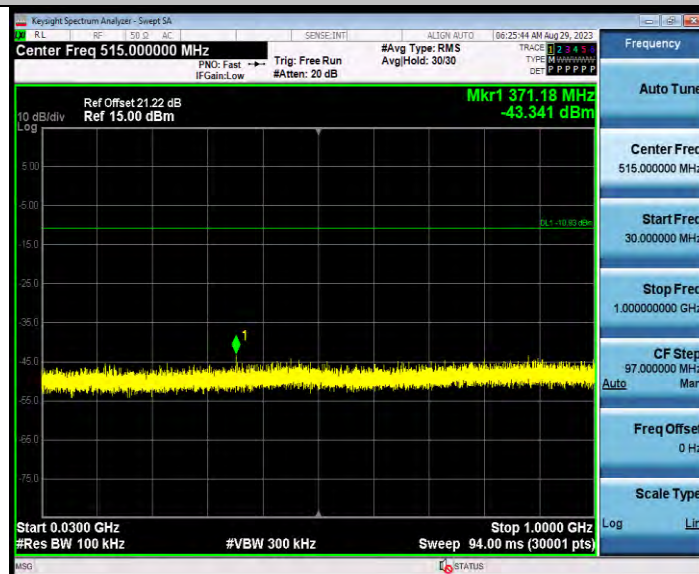


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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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Test Report No.: W7L-P23080006RF02



11G_Ant1_2462_0~Reference

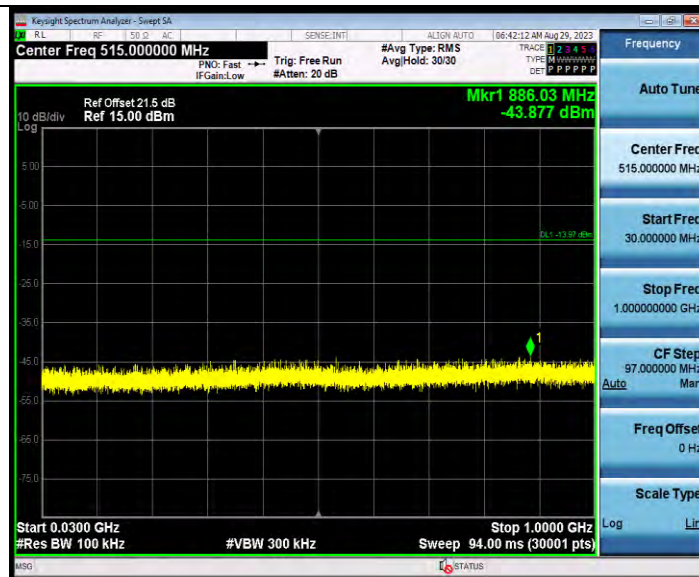


11G_Ant1_2462_30~1000



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Test Report No.: W7L-P23080006RF02



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



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Test Report No.: W7L-P23080006RF02



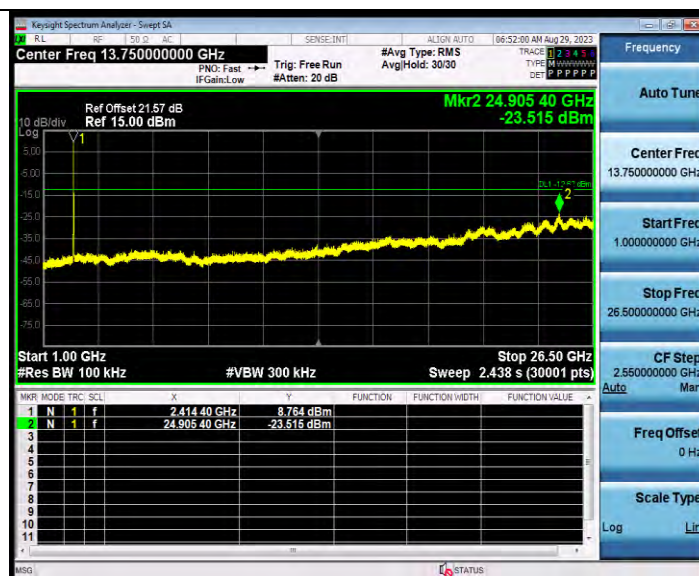
11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500



Test Report No.: W7L-P23080006RF02



11N20SISO Ant1 2437 0~Reference

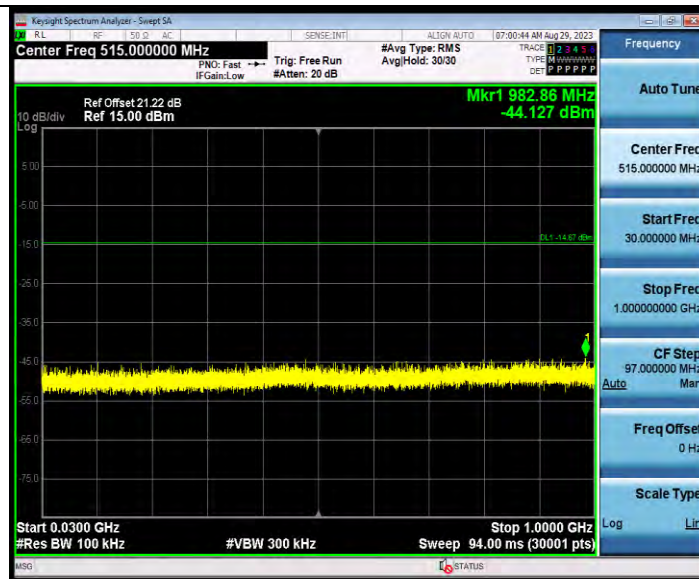


11N20SISO Ant1 2437 30~1000



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Test Report No.: W7L-P23080006RF02



11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



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Test Report No.: W7L-P23080006RF02



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



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Test Report No.: W7L-P23080006RF02



**DUTY CYCLE****TEST RESULT**

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.38	8.42	99.52	0.02
		2437	8.39	8.43	99.53	0.02
		2462	8.38	8.42	99.52	0.02
11G	Ant1	2412	1.40	1.44	97.22	0.12
		2437	1.39	1.43	97.20	0.12
		2462	1.39	1.44	96.53	0.15
11N20SISO	Ant1	2412	1.30	1.35	96.30	0.16
		2437	1.30	1.35	96.30	0.16
		2462	1.30	1.35	96.30	0.16

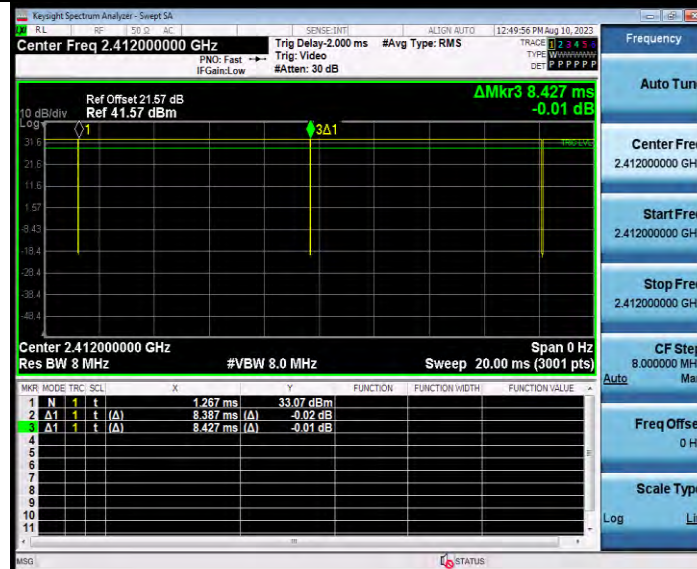


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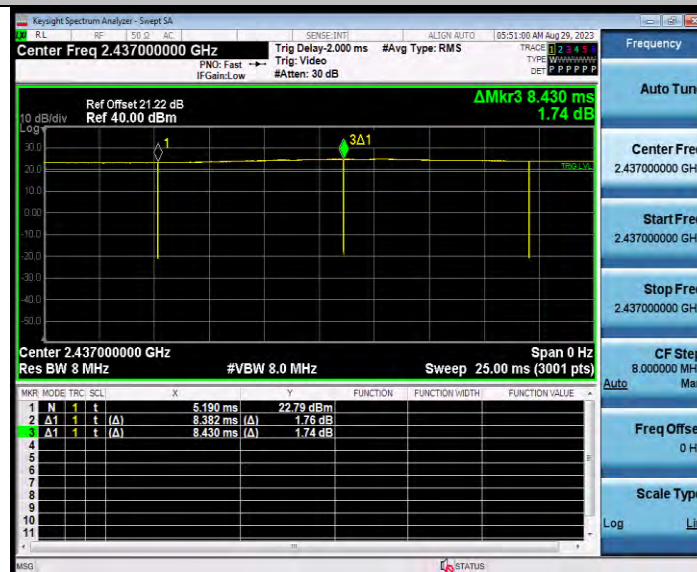
Test Report No.: W7L-P23080006RF02

TEST GRAPHS

11B_Ant1_2412



11B_Ant1_2437

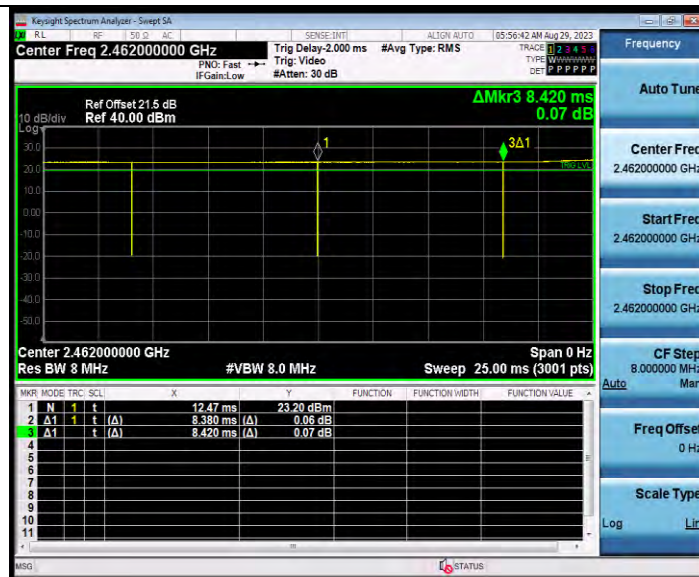


11B_Ant1_2462

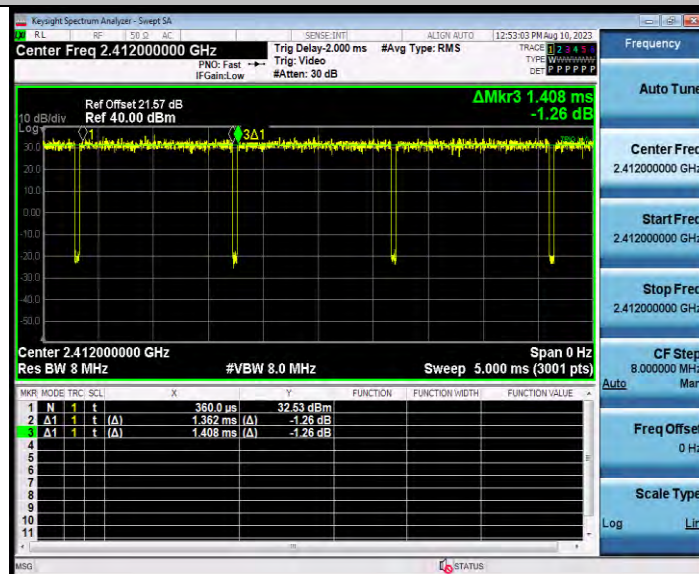


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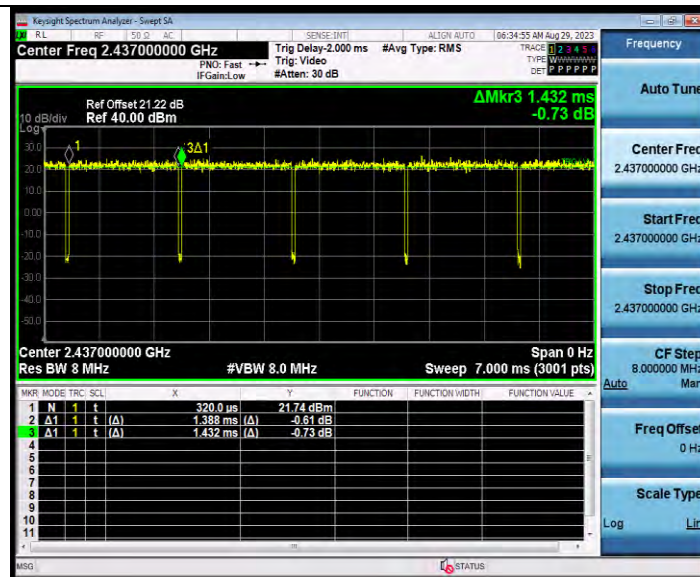
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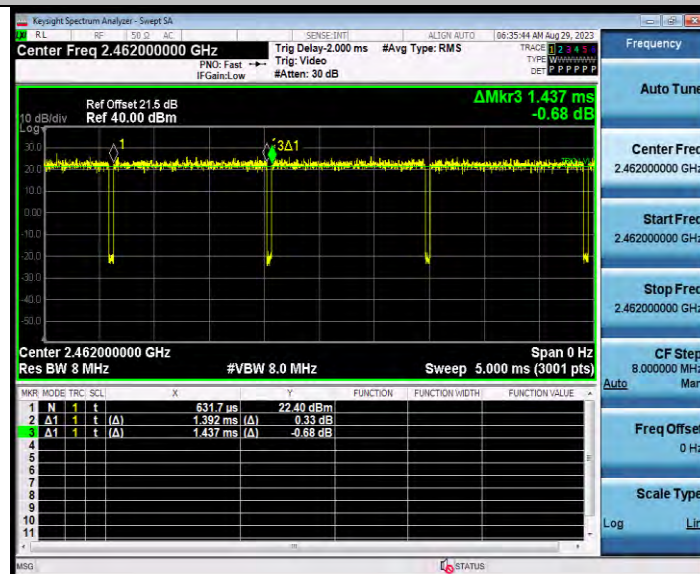
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462

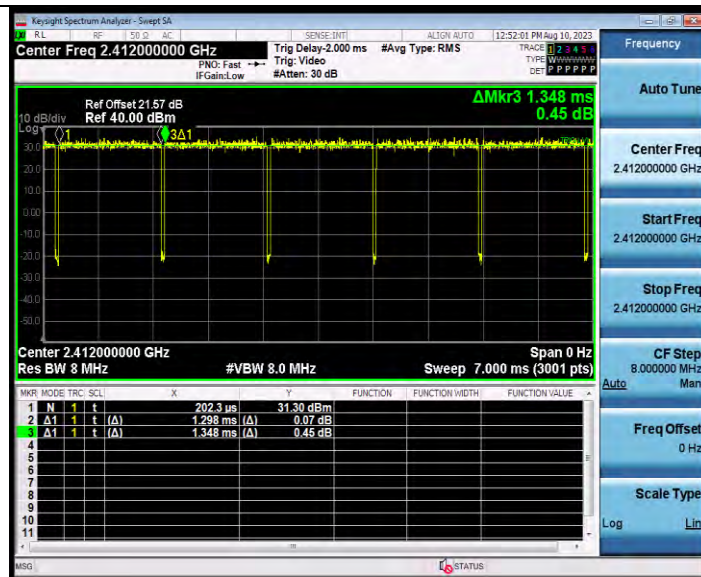


11N20SISO_Ant1_2412

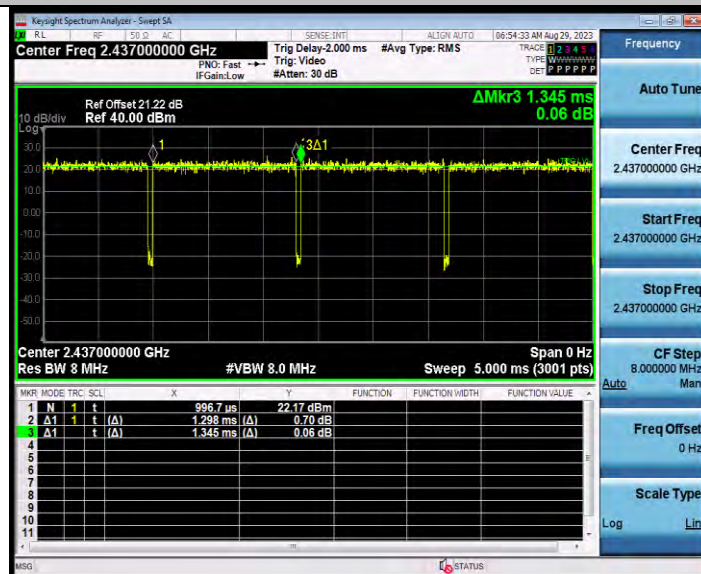


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Test Report No.: W7L-P23080006RF02



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



7 APPENDIX 2 :BLE

DTS BANDWIDTH

TEST RESULT

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.656	2401.688	2402.344	0.5	PASS
		2440	0.684	2439.664	2440.348	0.5	PASS
		2480	0.652	2479.676	2480.328	0.5	PASS
BLE_2M	Ant1	2404	1.136	2403.464	2404.600	0.5	PASS
		2440	1.220	2439.372	2440.592	0.5	PASS
		2478	1.136	2477.452	2478.588	0.5	PASS
BLE_125K	Ant1	2402	0.680	2401.672	2402.352	0.5	PASS
		2440	0.680	2439.672	2440.352	0.5	PASS
		2480	0.684	2479.668	2480.352	0.5	PASS
BLE_500K	Ant1	2402	0.664	2401.684	2402.348	0.5	PASS
		2440	0.660	2439.684	2440.344	0.5	PASS
		2480	0.708	2479.656	2480.364	0.5	PASS



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TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

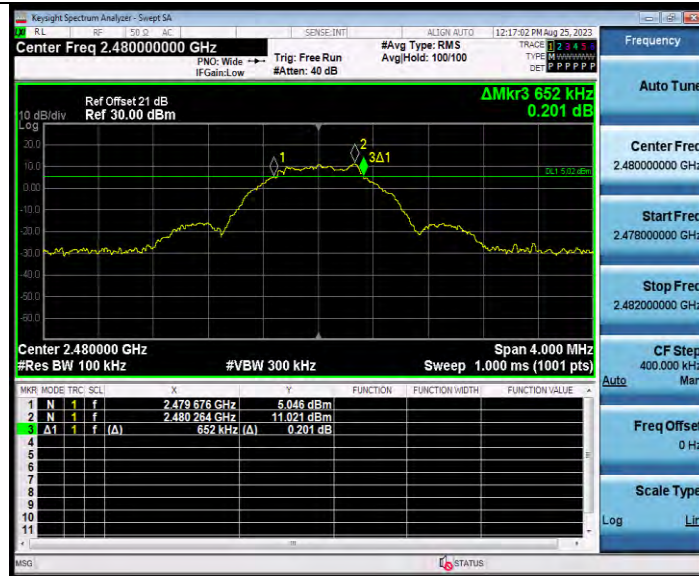


BLE_1M_Ant1_2480



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BLE_2M_Ant1_2404



BLE_2M_Ant1_2440



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Test Report No.: W7L-P23080006RF02



BLE_2M_Ant1_2478

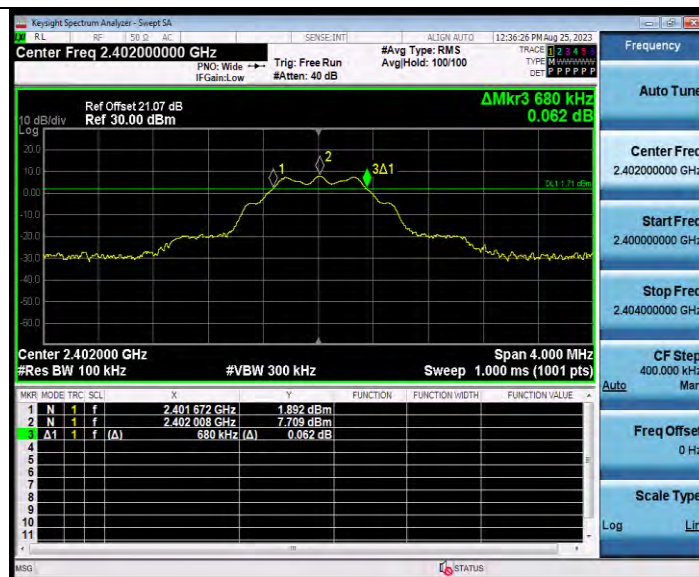


BLE_125K_Ant1_2402



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BLE_125K_Ant1_2440



BLE_125K_Ant1_2480



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Test Report No.: W7L-P23080006RF02



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



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Test Report No.: W7L-P23080006RF02



BLE_500K_Ant1_2480



**OCCUPIED CHANNEL BANDWIDTH****TEST RESULT**

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0401	2401.4957	2402.5358	---	---
		2440	1.0383	2439.4934	2440.5317	---	---
		2480	1.0422	2479.4954	2480.5376	---	---
BLE_2M	Ant1	2404	2.0713	2402.9987	2405.0700	---	---
		2440	2.0738	2438.9922	2441.0660	---	---
		2478	2.0779	2476.9865	2479.0644	---	---
BLE_125K	Ant1	2402	1.0650	2401.4793	2402.5443	---	---
		2440	1.0635	2439.4785	2440.5420	---	---
		2480	1.0638	2479.4752	2480.5390	---	---
BLE_500K	Ant1	2402	1.0273	2401.4956	2402.5229	---	---
		2440	1.0209	2439.5011	2440.5220	---	---
		2480	1.0207	2479.4890	2480.5097	---	---

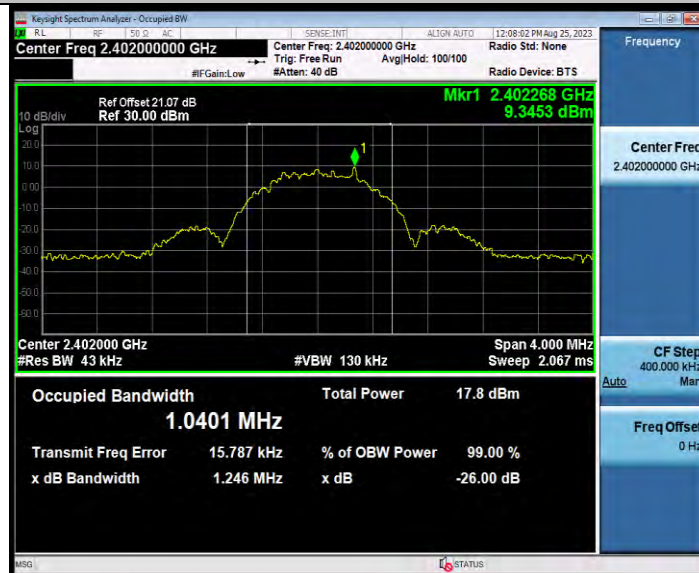


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Test Report No.: W7L-P23080006RF02

TEST GRAPHS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

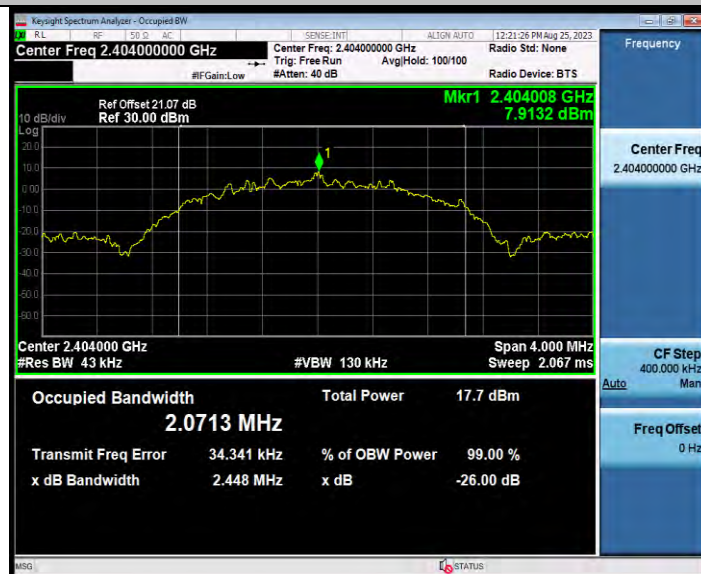


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BLE_2M_Ant1_2404



BLE_2M_Ant1_2440