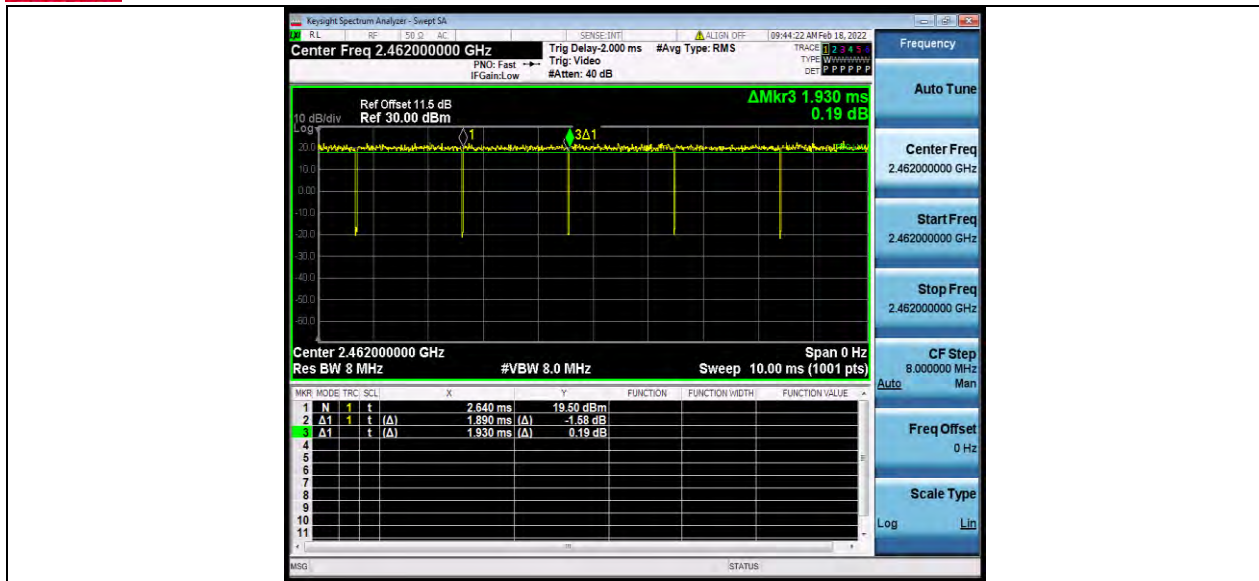




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Test Report No.: W7L-P23060012RF02





BT-LE DTS BANDWIDTH TEST RESULT

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_125K	Ant1	2402	0.600	2401.692	2402.292	0.5	PASS
		2440	0.684	2439.652	2440.336	0.5	PASS
		2480	0.684	2479.648	2480.332	0.5	PASS
BLE_1M	Ant1	2402	0.680	2401.648	2402.328	0.5	PASS
		2440	0.688	2439.648	2440.336	0.5	PASS
		2480	0.668	2479.656	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.144	2401.432	2402.576	0.5	PASS
		2440	1.192	2439.348	2440.540	0.5	PASS
		2480	1.244	2479.336	2480.580	0.5	PASS
BLE_500K	Ant1	2402	0.660	2401.664	2402.324	0.5	PASS
		2440	0.700	2439.640	2440.340	0.5	PASS
		2480	0.676	2479.660	2480.336	0.5	PASS



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TEST GRAPHS

BLE_125K_Ant1_2402



BLE_125K_Ant1_2440



BLE_125K_Ant1_2480



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BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



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BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



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BLE_500K_Ant1_2480



**MAXIMUM CONDUCTED OUTPUT POWER****TEST RESULT PEAK**

TestMode	Antenna	Channel	Peak Power[dBm]	Peak Power[mw]	Conducted Limit[W]	Verdict	Power setting
1M	Ant1	2402	5.08	3.22	≤1.00	PASS	Default
		2440	5.18	3.30	≤1.00	PASS	Default
		2480	6.05	4.03	≤1.00	PASS	Default
2M	ANT1	2402	5.13	3.26	≤1.00	PASS	Default
		2440	5.41	3.48	≤1.00	PASS	Default
		2480	6.32	4.29	≤1.00	PASS	Default
S2	Ant1	2402	5.02	3.18	≤1.00	PASS	Default
		2440	5.28	3.37	≤1.00	PASS	Default
		2480	6.08	4.06	≤1.00	PASS	Default
S8	Ant1	2402	5.08	3.22	≤1.00	PASS	Default
		2440	5.18	3.30	≤1.00	PASS	Default
		2480	6.10	4.07	≤1.00	PASS	Default

TEST RESULT AVERAGE

TestMode	Antenna	Channel	Average Power	Conducted Limit[W]	Verdict	Power setting
1M	Ant1	2402	4.12	/	PASS	Default
		2440	4.48	/	PASS	Default
		2480	5.13	/	PASS	Default
2M	ANT1	2402	2.76	/	PASS	Default
		2440	3.07	/	PASS	Default
		2480	3.90	/	PASS	Default
S2	Ant1	2402	4.35	/	PASS	Default
		2440	4.92	/	PASS	Default
		2480	5.42	/	PASS	Default
S8	Ant1	2402	4.64	/	PASS	Default
		2440	4.95	/	PASS	Default
		2480	5.88	/	PASS	Default



Test Report No.: W7L-P23060012RF02

MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_125K	Ant1	2402	1.34	≤8.00	PASS
		2440	0.87	≤8.00	PASS
		2480	2.19	≤8.00	PASS
BLE_1M	Ant1	2402	-8.43	≤8.00	PASS
		2440	-8.92	≤8.00	PASS
		2480	-7.60	≤8.00	PASS
BLE_2M	Ant1	2402	-11.00	≤8.00	PASS
		2440	-11.47	≤8.00	PASS
		2480	-10.07	≤8.00	PASS
BLE_500K	Ant1	2402	1.25	≤8.00	PASS
		2440	0.79	≤8.00	PASS
		2480	2.08	≤8.00	PASS



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Test Report No.: W7L-P23060012RF02

TEST GRAPHS

BLE_125K_Ant1_2402



BLE_125K_Ant1_2440



BLE_125K_Ant1_2480



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Test Report No.: W7L-P23060012RF02



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



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Test Report No.: W7L-P23060012RF02



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



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Test Report No.: W7L-P23060012RF02



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

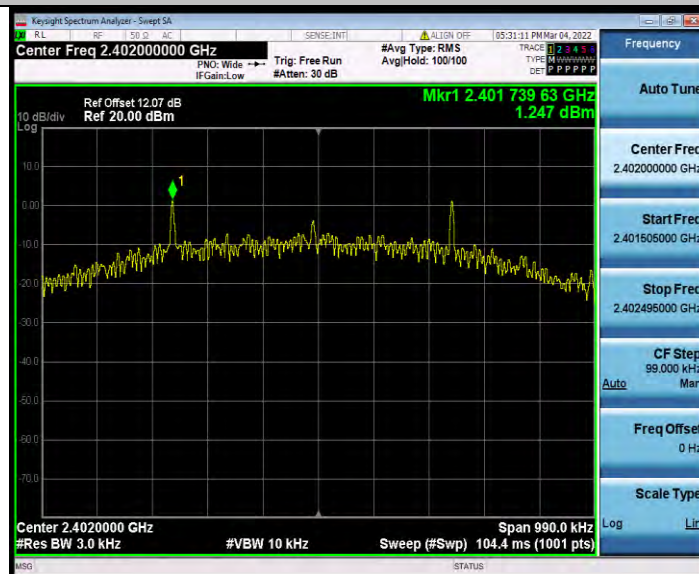


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Test Report No.: W7L-P23060012RF02



BLE_500K_Ant1_2402

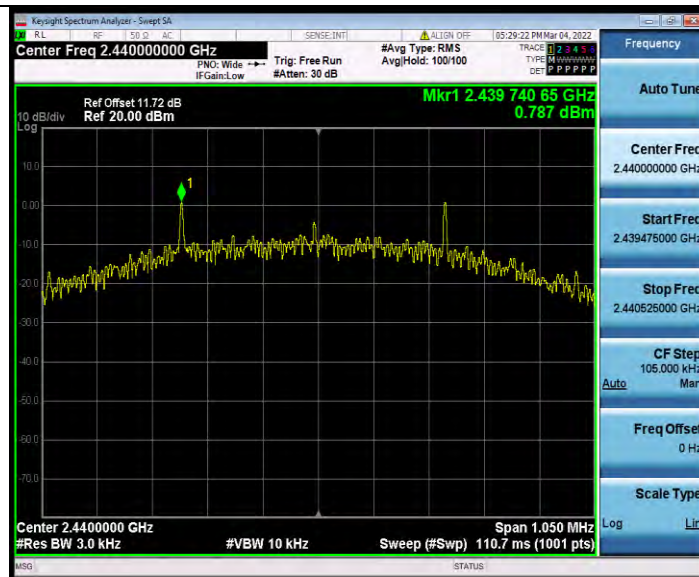


BLE_500K_Ant1_2440



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BLE_500K_Ant1_2480





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BAND EDGE MEASUREMENTS

TEST RESULT

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_125K	Ant1	Low	2402	6.42	-44.22	≤ -13.58	PASS
		High	2480	6.25	-43.52	≤ -13.75	PASS
BLE_1M	Ant1	Low	2402	6.49	-43.62	≤ -13.51	PASS
		High	2480	7.13	-41.95	≤ -12.87	PASS
BLE_2M	Ant1	Low	2402	6.71	-43.98	≤ -13.29	PASS
		High	2480	7.23	-43.67	≤ -12.77	PASS
BLE_500K	Ant1	Low	2402	6.46	-44.67	≤ -13.54	PASS
		High	2480	6.94	-44.16	≤ -13.06	PASS

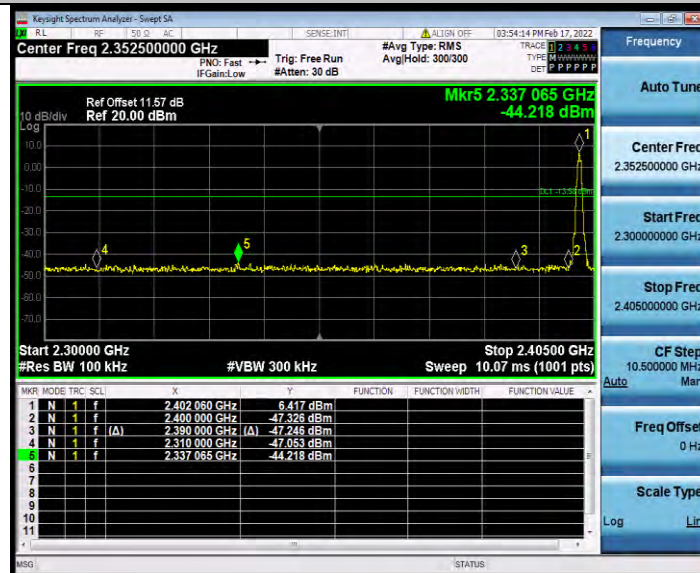


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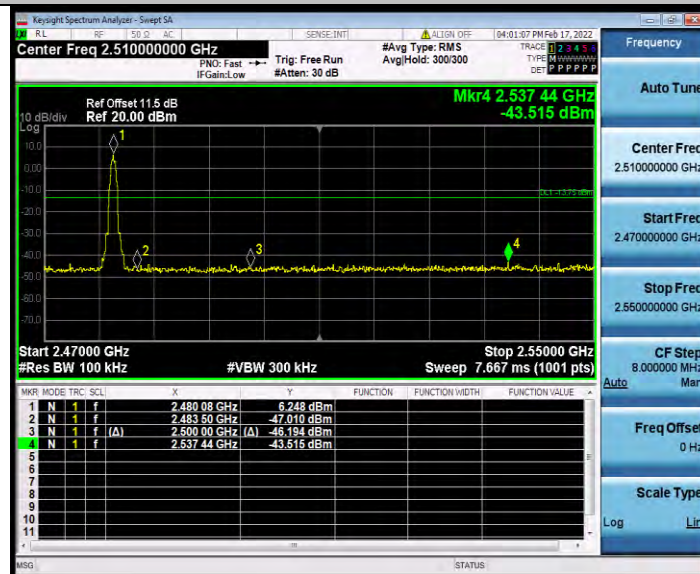
Test Report No.: W7L-P23060012RF02

TEST GRAPHS

BLE_125K_Ant1_Low_2402



BLE_125K_Ant1_High_2480

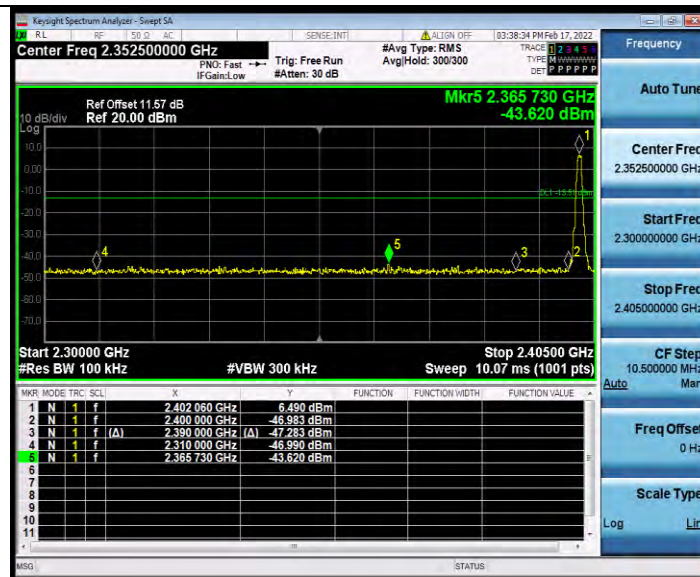


BLE_1M_Ant1_Low_2402

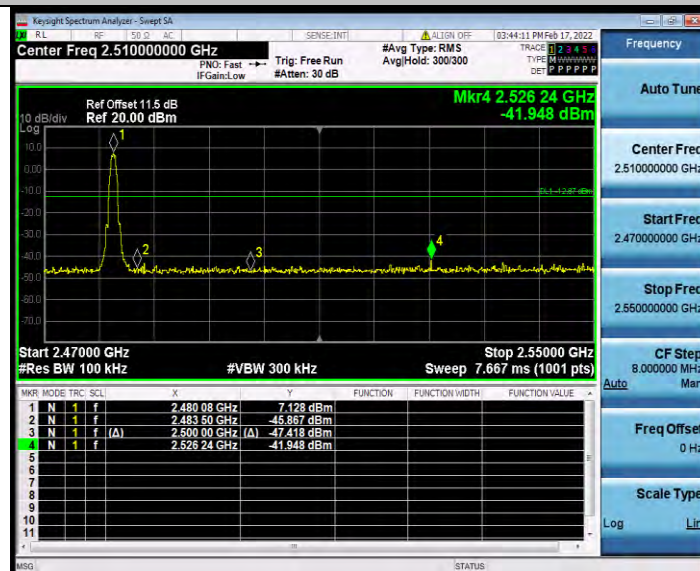


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Test Report No.: W7L-P23060012RF02



BLE_1M_Ant1_High_2480

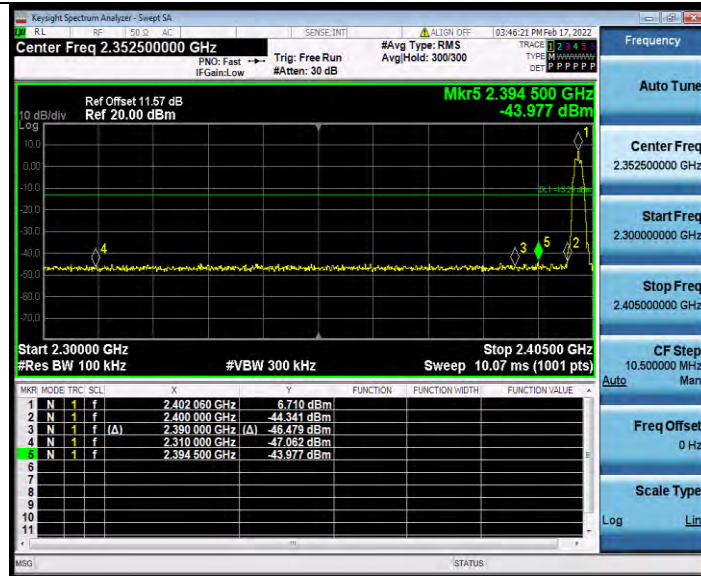


BLE_2M_Ant1_Low_2402

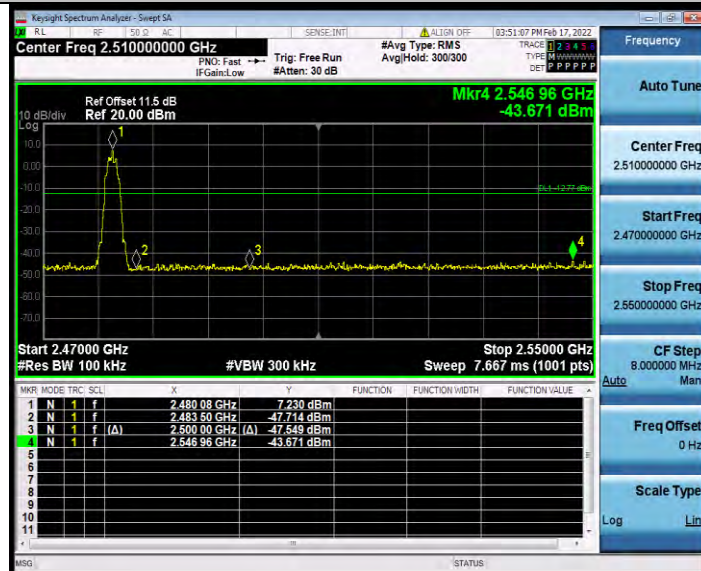


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Test Report No.: W7L-P23060012RF02



BLE_2M_Ant1_High_2480

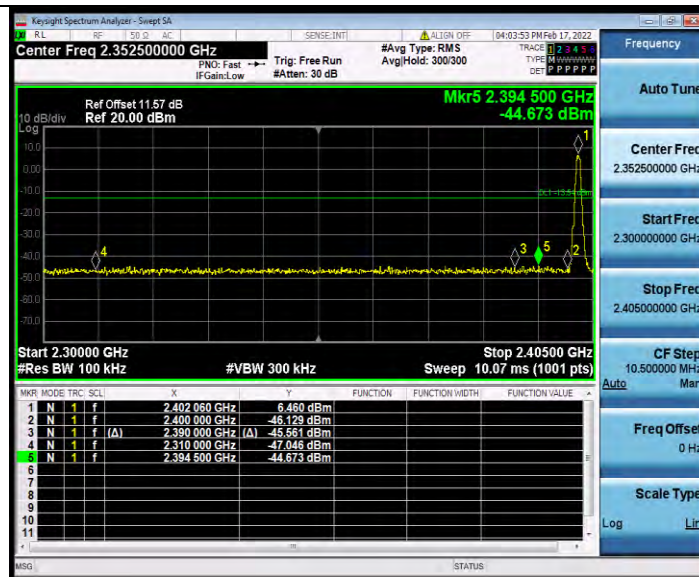


BLE_500K_Ant1_Low_2402

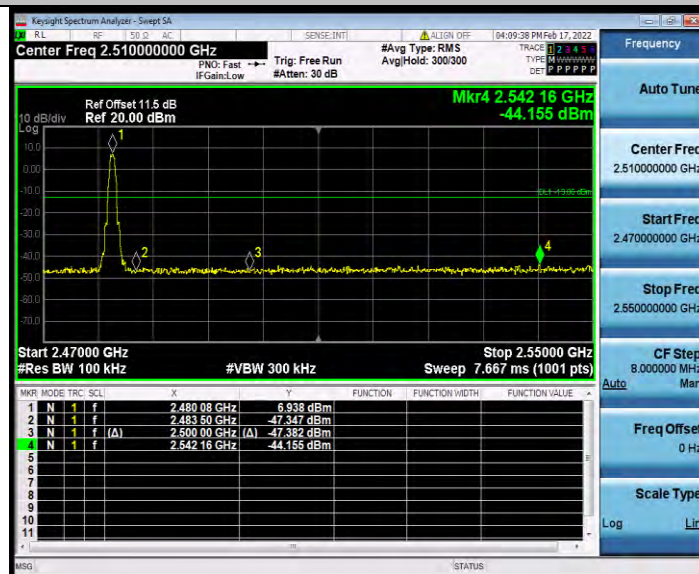


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Test Report No.: W7L-P23060012RF02



BLE_500K_Ant1_High_2480



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

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_125K	Ant1	2402	Reference	2.86	2.86	---	PASS
			30~1000	2.86	-53.9	≤-17.14	PASS
			1000~26500	2.86	-37.46	≤-17.14	PASS
		2440	Reference	2.28	2.28	---	PASS
			30~1000	2.28	-54.68	≤-17.73	PASS
			1000~26500	2.28	-38.44	≤-17.73	PASS
		2480	Reference	3.76	3.76	---	PASS
			30~1000	3.76	-53.38	≤-16.24	PASS
			1000~26500	3.76	-37.99	≤-16.24	PASS
BLE_1M	Ant1	2402	Reference	5.54	5.54	---	PASS
			30~1000	5.54	-52.88	≤-14.46	PASS
			1000~26500	5.54	-37.76	≤-14.46	PASS
		2440	Reference	4.52	4.52	---	PASS
			30~1000	4.52	-53.92	≤-15.48	PASS
			1000~26500	4.52	-37.44	≤-15.48	PASS
		2480	Reference	6.17	6.17	---	PASS
			30~1000	6.17	-53.52	≤-13.83	PASS
			1000~26500	6.17	-37.67	≤-13.83	PASS
BLE_2M	Ant1	2402	Reference	3.12	3.12	---	PASS
			30~1000	3.12	-52.78	≤-16.88	PASS
			1000~26500	3.12	-38.28	≤-16.88	PASS
		2440	Reference	4.19	4.19	---	PASS
			30~1000	4.19	-53.62	≤-15.82	PASS
			1000~26500	4.19	-38.21	≤-15.82	PASS
		2480	Reference	6.87	6.87	---	PASS
			30~1000	6.87	-53.49	≤-13.13	PASS
			1000~26500	6.87	-37.6	≤-13.13	PASS
BLE_500K	Ant1	2402	Reference	4.69	4.69	---	PASS
			30~1000	4.69	-53.71	≤-15.32	PASS



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Test Report No.: W7L-P23060012RF02

			1000~26500	4.69	-38.07	≤ -15.32	PASS
		2440	Reference	5.45	5.45	---	PASS
			30~1000	5.45	-54.6	≤ -14.55	PASS
			1000~26500	5.45	-38.35	≤ -14.55	PASS
		2480	Reference	4.15	4.15	---	PASS
			30~1000	4.15	-53.95	≤ -15.85	PASS
			1000~26500	4.15	-38.07	≤ -15.85	PASS



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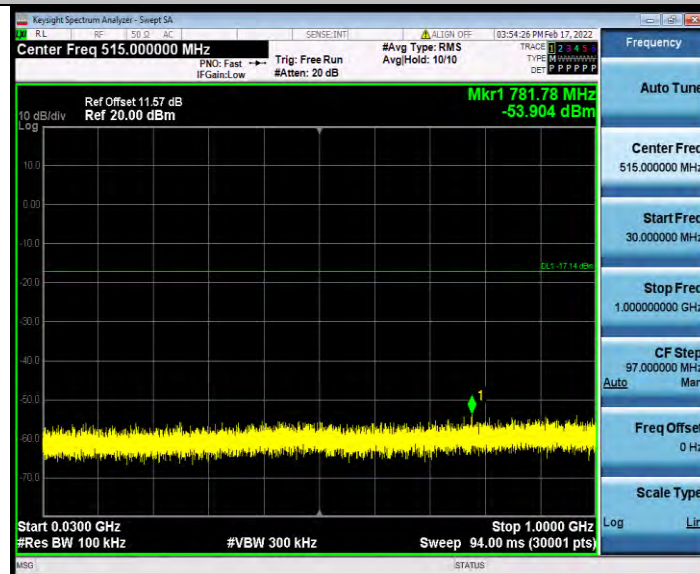
Test Report No.: W7L-P23060012RF02

TEST GRAPHS

BLE_125K_Ant1_2402_0~Reference



BLE_125K_Ant1_2402_30~1000



BLE_125K_Ant1_2402_1000~26500



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Test Report No.: W7L-P23060012RF02



BLE_125K_Ant1_2440_0~Reference

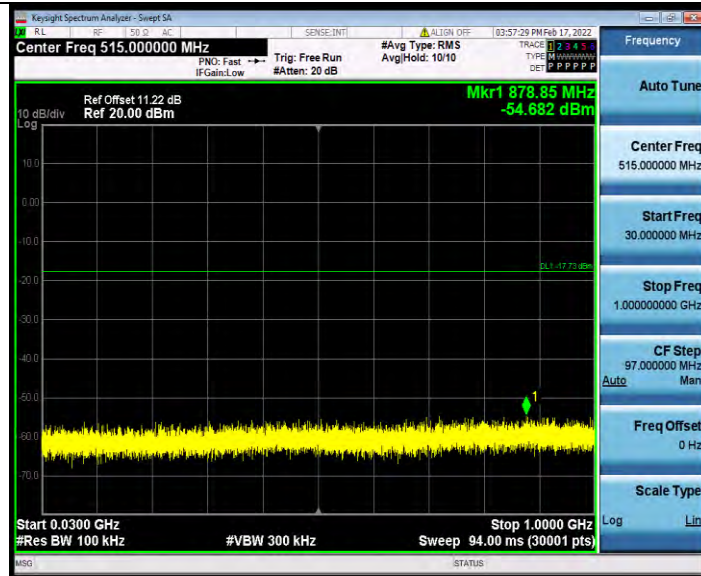


BLE_125K_Ant1_2440_30~1000



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Test Report No.: W7L-P23060012RF02



BLE_125K_Ant1_2440_1000~26500



BLE_125K_Ant1_2480_0~Reference

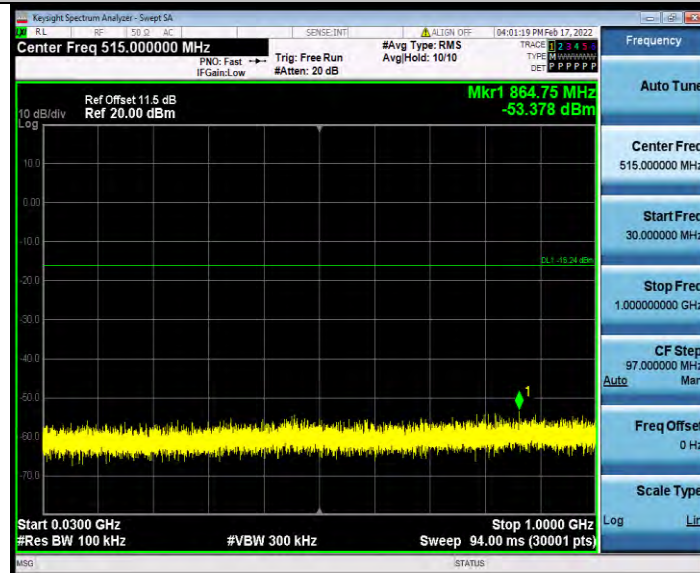


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Test Report No.: W7L-P23060012RF02



BLE_125K_Ant1_2480_30~1000



BLE_125K_Ant1_2480_1000~26500



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Test Report No.: W7L-P23060012RF02



BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



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Test Report No.: W7L-P23060012RF02



BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



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VERITAS

Test Report No.: W7L-P23060012RF02



BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



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Test Report No.: W7L-P23060012RF02



BLE_1M_Ant1_2480_0~Reference

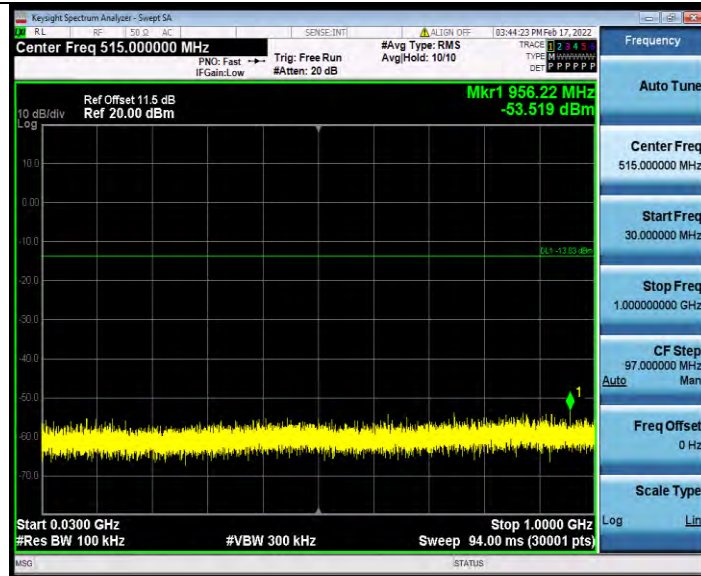


BLE_1M_Ant1_2480_30~1000



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Test Report No.: W7L-P23060012RF02



BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference

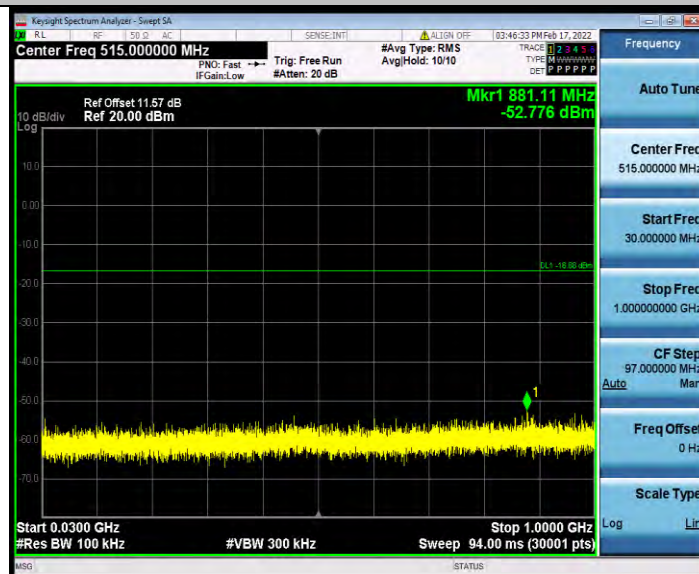


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BLE_2M_Ant1_2402_30~1000

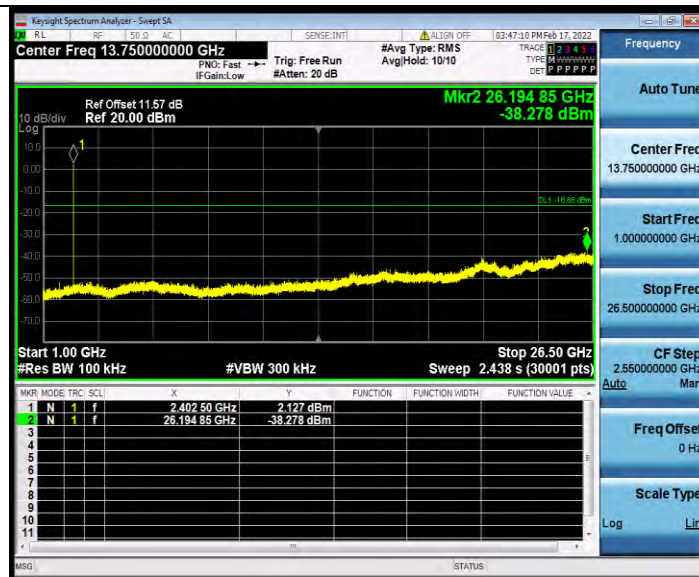


BLE_2M_Ant1_2402_1000~26500



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Test Report No.: W7L-P23060012RF02



BLE_2M_Ant1_2440_0~Reference

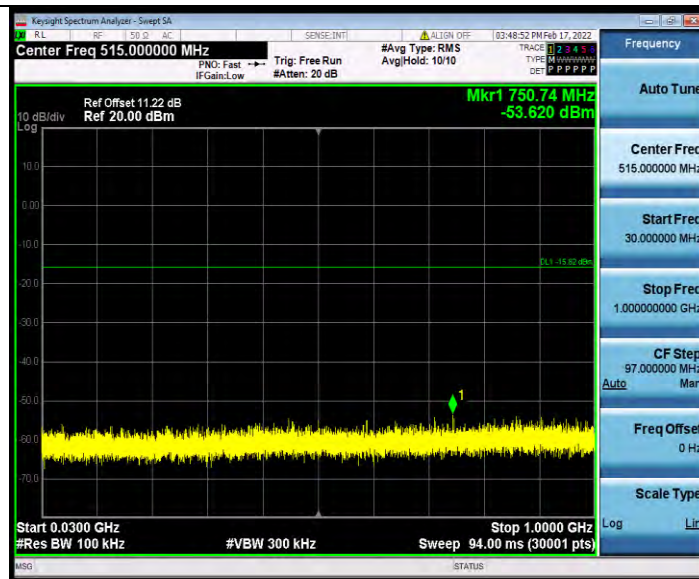


BLE_2M_Ant1_2440_30~1000



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Test Report No.: W7L-P23060012RF02



BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_0~Reference

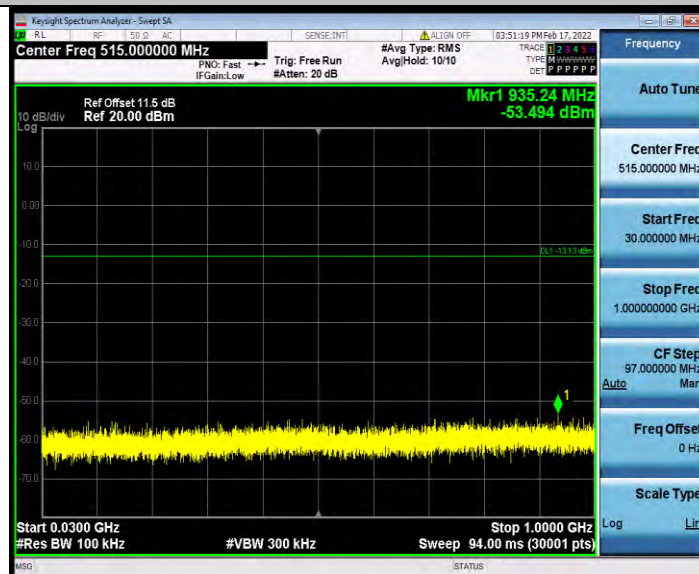


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BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500



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VERITAS

Test Report No.: W7L-P23060012RF02



BLE_500K_Ant1_2402_0~Reference

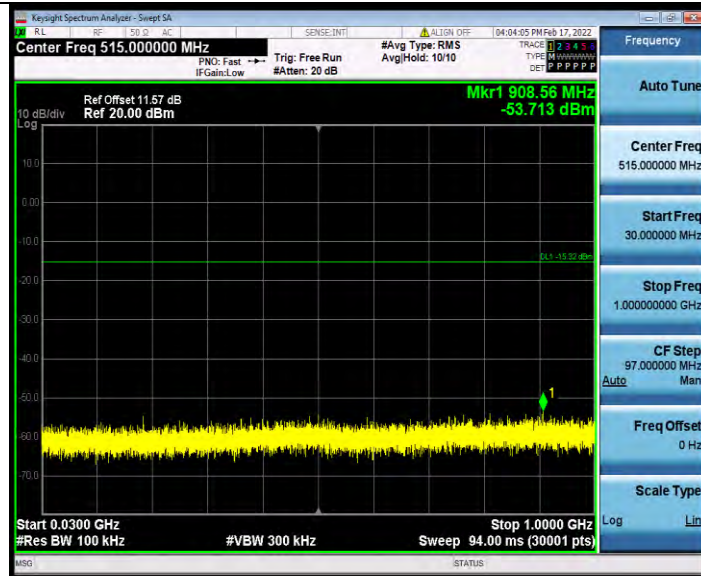


BLE_500K_Ant1_2402_30~1000



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Test Report No.: W7L-P23060012RF02



BLE_500K_Ant1_2402_1000~26500



BLE_500K_Ant1_2440_0~Reference



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VERITAS

Test Report No.: W7L-P23060012RF02



BLE_500K_Ant1_2440_30~1000



BLE_500K_Ant1_2440_1000~26500



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Test Report No.: W7L-P23060012RF02



BLE_500K_Ant1_2480_0~Reference

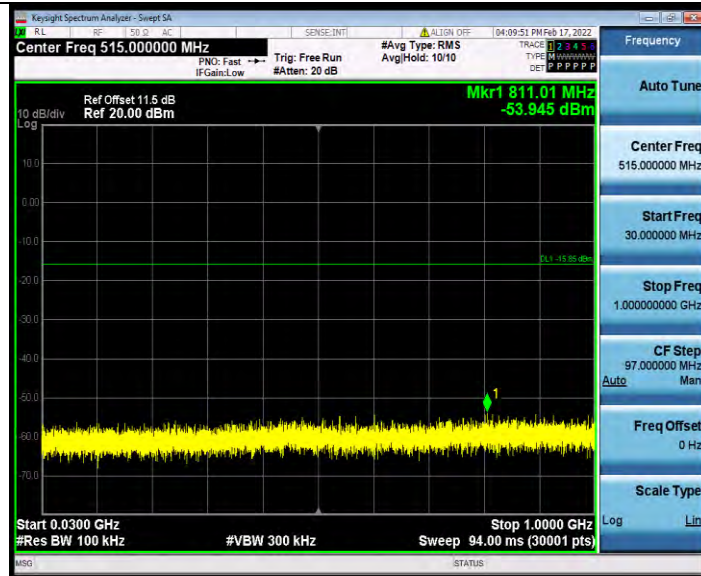


BLE_500K_Ant1_2480_30~1000



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Test Report No.: W7L-P23060012RF02



BLE_500K_Ant1_2480_1000~26500





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Test Report No.: W7L-P23060012RF02

DUTY CYCLE

TEST RESULT

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_125K	Ant1	2402	3.11	3.75	82.93	0.81
		2440	3.10	3.75	82.67	0.83
		2480	3.10	3.75	82.67	0.83
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.01
		2440	0.40	0.63	63.49	1.97
		2480	0.39	0.62	62.90	2.01
BLE_2M	Ant1	2402	0.21	0.62	33.87	4.70
		2440	0.21	0.63	33.33	4.77
		2480	0.21	0.63	33.33	4.77
BLE_500K	Ant1	2402	1.08	1.88	57.45	2.41
		2440	1.07	1.88	56.91	2.45
		2480	1.07	1.88	56.91	2.45

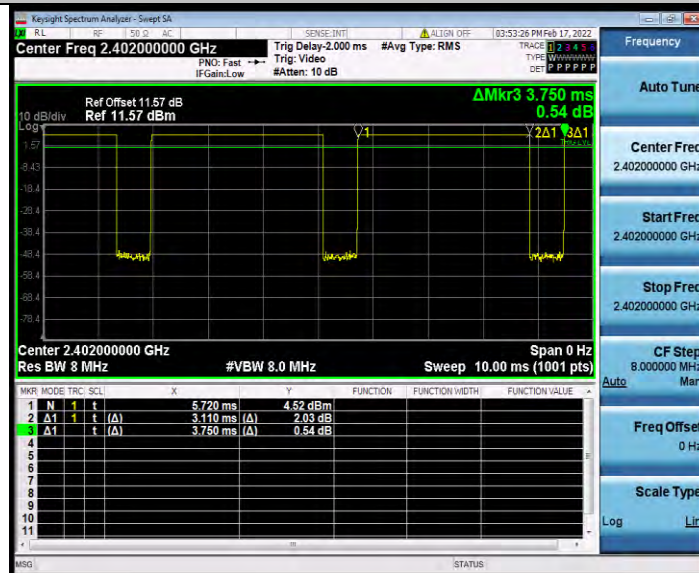


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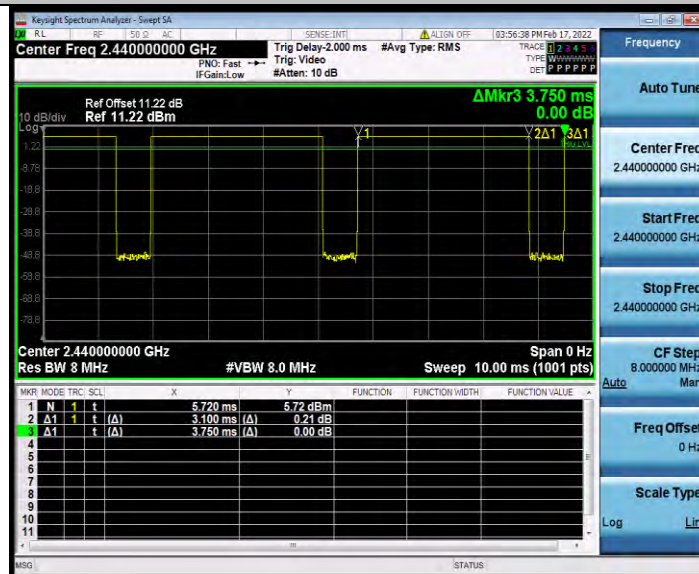
Test Report No.: W7L-P23060012RF02

TEST GRAPHS

BLE_125K_Ant1_2402



BLE_125K_Ant1_2440

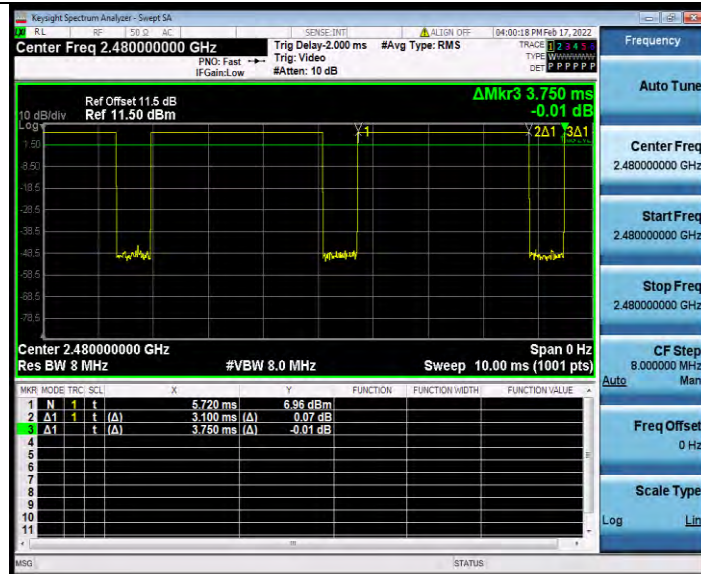


BLE_125K_Ant1_2480

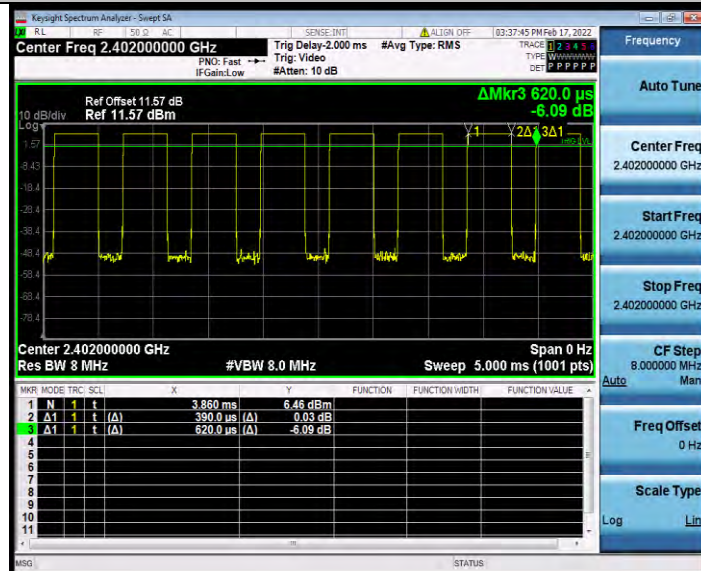


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Test Report No.: W7L-P23060012RF02



BLE_1M_Ant1_2402

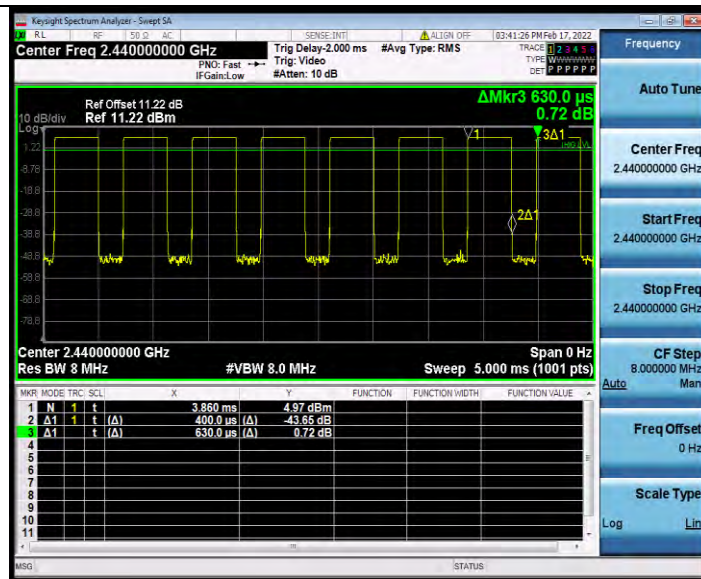


BLE_1M_Ant1_2440

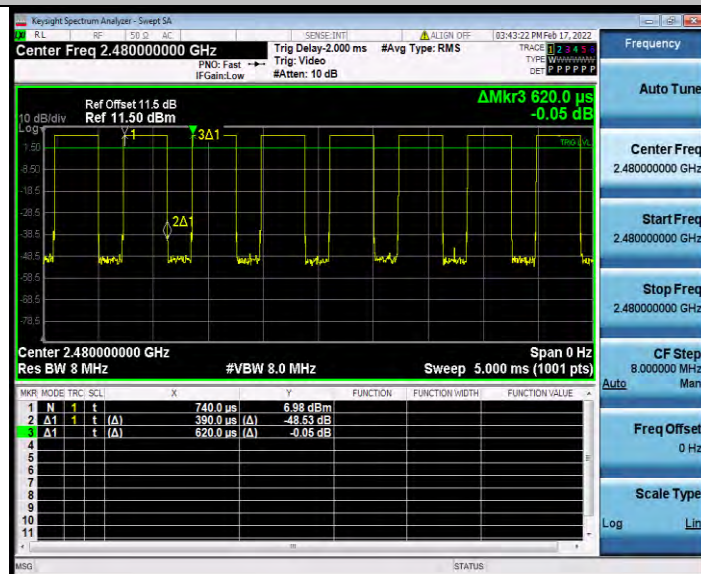


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Test Report No.: W7L-P23060012RF02



BLE_1M_Ant1_2480

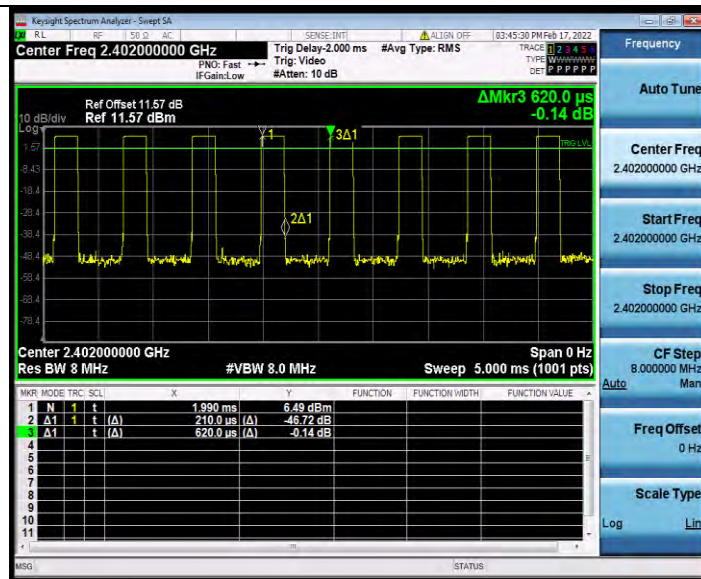


BLE_2M_Ant1_2402

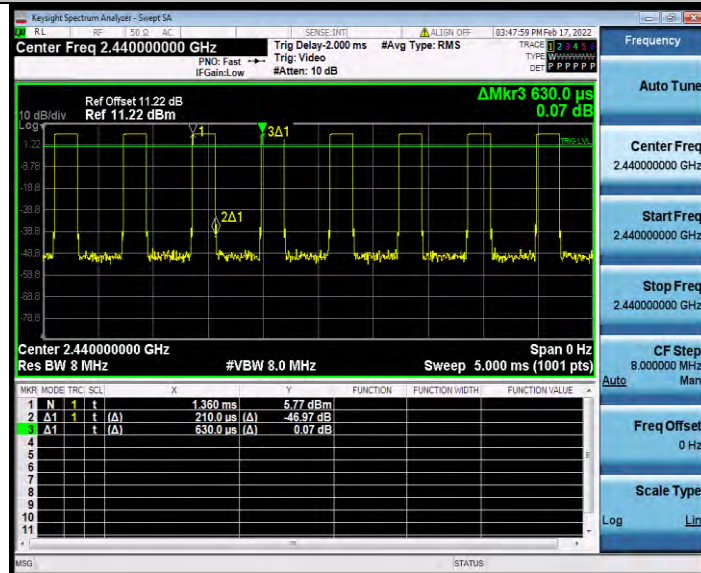


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Test Report No.: W7L-P23060012RF02



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480