



BUREAU
VERITAS

Test Report No.: W7L-P22050003RF02



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



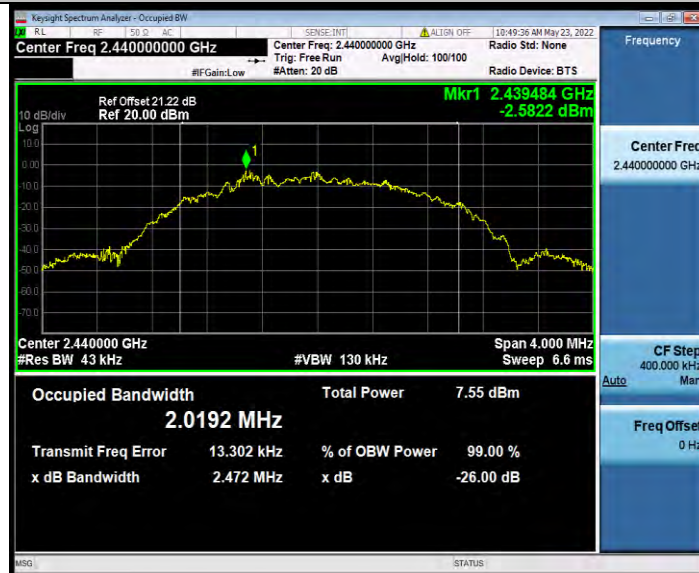


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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

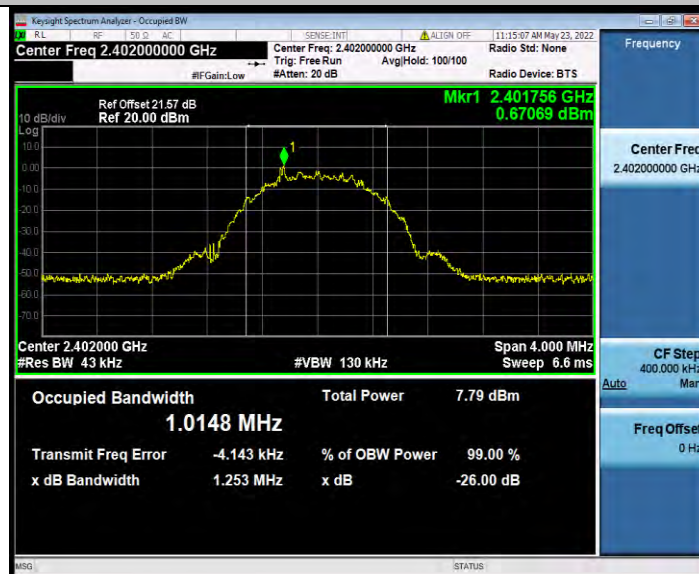


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BLE_500K_Ant1_2402

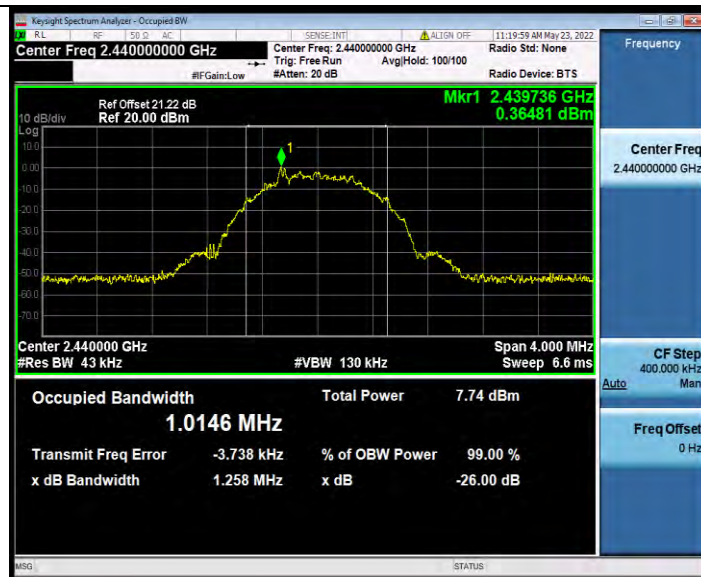


BLE_500K_Ant1_2440

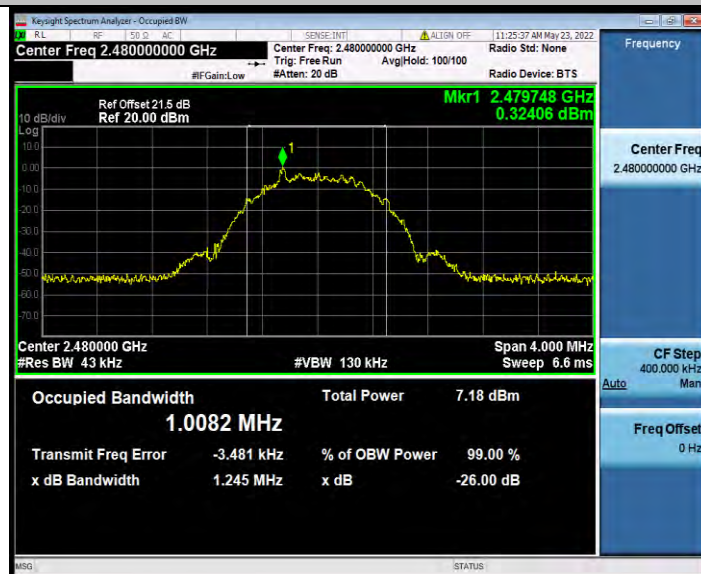


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BLE_500K_Ant1_2480



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

TestMode	Antenna	Freq. [MHz]	Average Power [dBm]	Peak Power [dBm]	Peak Power [mW]	Limit [dBm]	Verdict	Power setting
BLE_125K	Ant1	2402	3.34	3.82	2.41	≤30	PASS	Default
		2440	3.84	4.31	2.70	≤30	PASS	Default
		2480	2.88	3.52	2.25	≤30	PASS	Default
BLE_1M	Ant1	2402	2.57	3.72	2.36	≤30	PASS	Default
		2440	3.04	4.25	2.66	≤30	PASS	Default
		2480	2.13	3.33	2.15	≤30	PASS	Default
BLE_2M	Ant1	2402	1.26	3.76	2.38	≤30	PASS	Default
		2440	1.72	4.23	2.65	≤30	PASS	Default
		2480	0.87	3.29	2.13	≤30	PASS	Default
BLE_500K	Ant1	2402	2.48	3.90	2.45	≤30	PASS	Default
		2440	2.98	4.40	2.75	≤30	PASS	Default
		2480	2.02	3.49	2.23	≤30	PASS	Default

**MAXIMUM POWER SPECTRAL DENSITY****TEST RESULT**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_125K	Ant1	2402	-4.89	≤8.00	PASS
		2440	-4.95	≤8.00	PASS
		2480	-5.69	≤8.00	PASS
BLE_1M	Ant1	2402	-14.80	≤8.00	PASS
		2440	-14.70	≤8.00	PASS
		2480	-15.54	≤8.00	PASS
BLE_2M	Ant1	2402	-17.96	≤8.00	PASS
		2440	-18.02	≤8.00	PASS
		2480	-18.85	≤8.00	PASS
BLE_500K	Ant1	2402	-4.88	≤8.00	PASS
		2440	-4.90	≤8.00	PASS
		2480	-5.66	≤8.00	PASS



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TEST GRAPHS

BLE_125K_Ant1_2402



BLE_125K_Ant1_2440

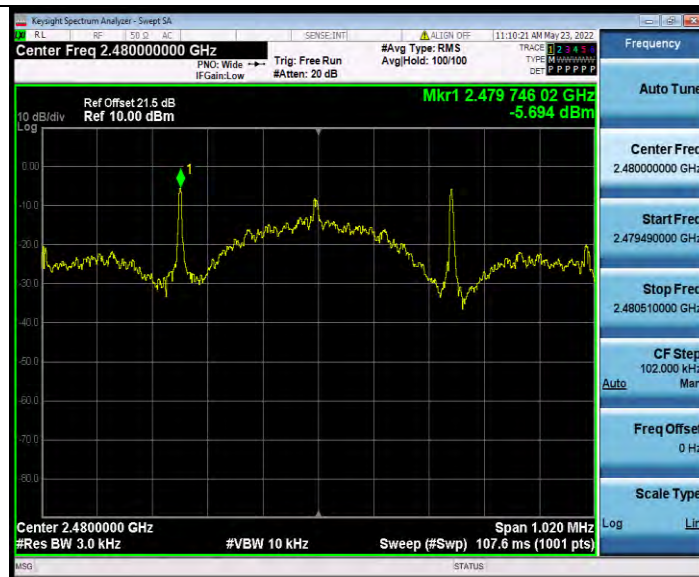


BLE_125K_Ant1_2480



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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

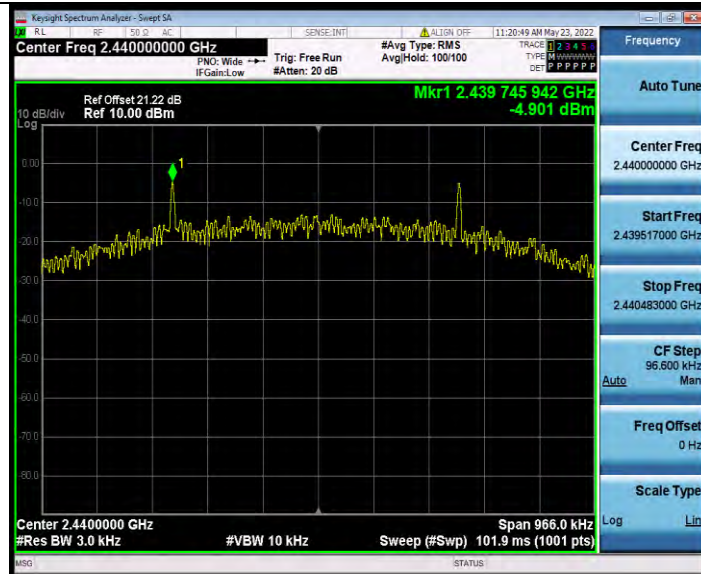


BLE_500K_Ant1_2440

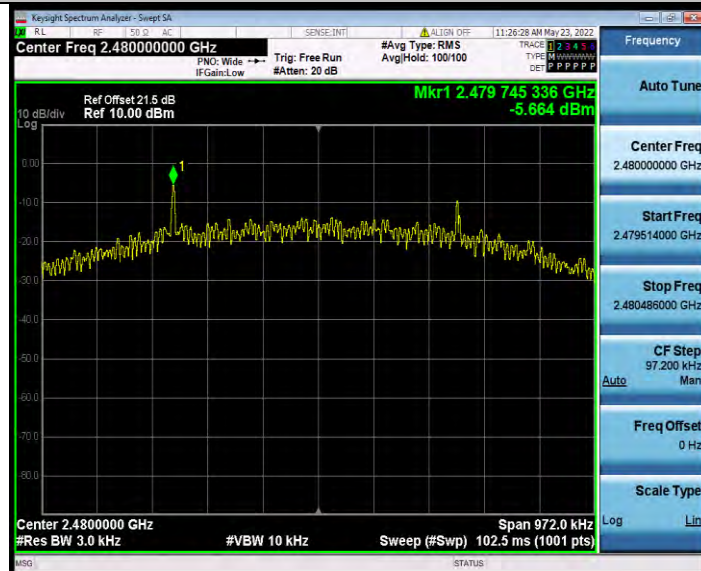


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BLE_500K_Ant1_2480



**REFERENCE LEVEL MEASUREMENT****TEST RESULT**

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_125K	Ant1	2402	2401.79	-0.52
		2440	2439.77	0.34
		2480	2480.00	-2.58
BLE_1M	Ant1	2402	2401.75	1.35
		2440	2439.75	1.36
		2480	2479.74	0.60
BLE_2M	Ant1	2402	2401.50	1.11
		2440	2439.49	1.01
		2480	2479.49	0.36
BLE_500K	Ant1	2402	2401.75	1.37
		2440	2439.74	1.37
		2480	2479.75	0.59



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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





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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	-0.52	-44.63	≤ -20.52	PASS
		High	2480	-2.58	-42.95	≤ -22.58	PASS
BLE_1M	Ant1	Low	2402	1.35	-45.00	≤ -18.65	PASS
		High	2480	0.60	-44.04	≤ -19.4	PASS
BLE_2M	Ant1	Low	2402	1.11	-42.46	≤ -18.89	PASS
		High	2480	0.36	-44.02	≤ -19.64	PASS
BLE_500K	Ant1	Low	2402	1.37	-43.61	≤ -18.63	PASS
		High	2480	0.59	-44.04	≤ -19.41	PASS

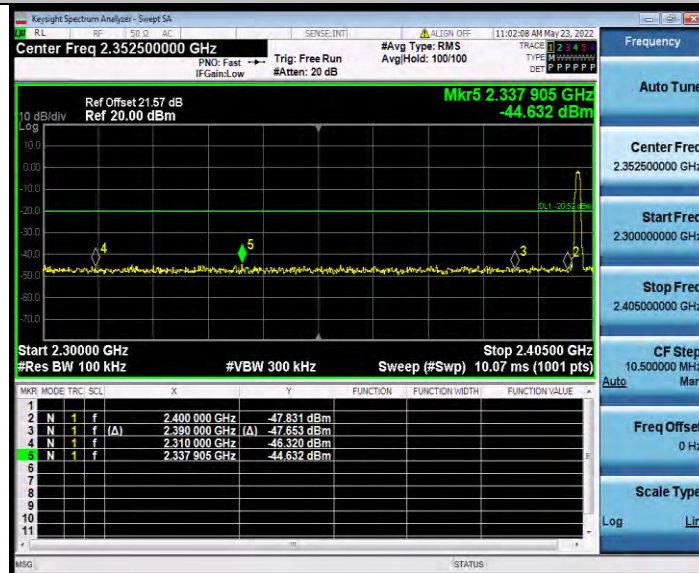


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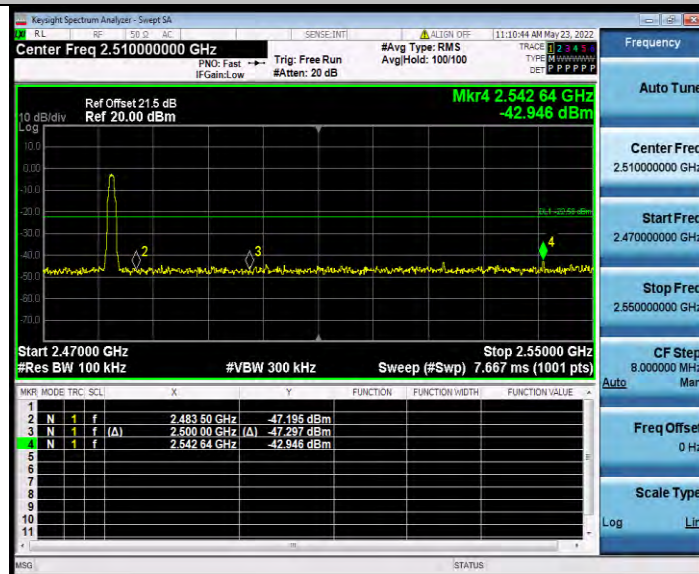
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TEST GRAPHS

BLE_125K_Ant1_Low_2402



BLE_125K_Ant1_High_2480

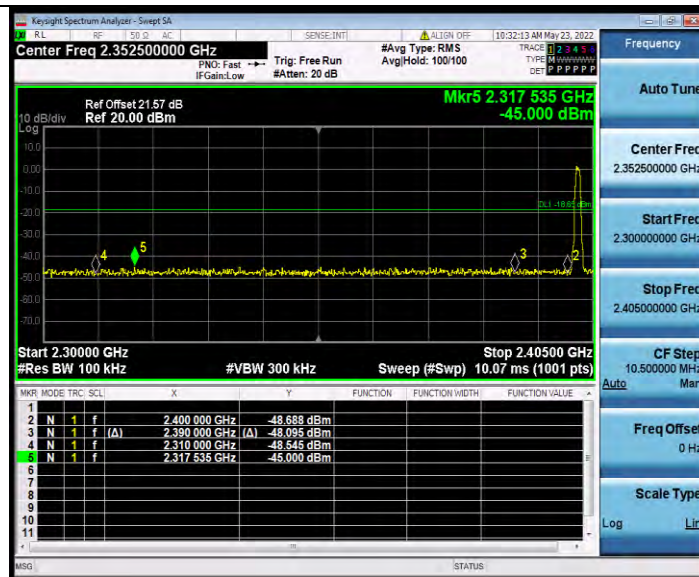


BLE_1M_Ant1_Low_2402

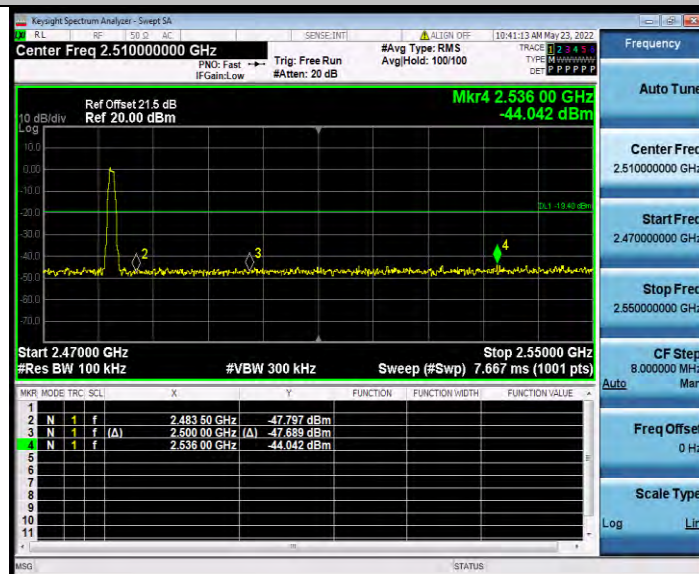


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BLE_1M_Ant1_High_2480

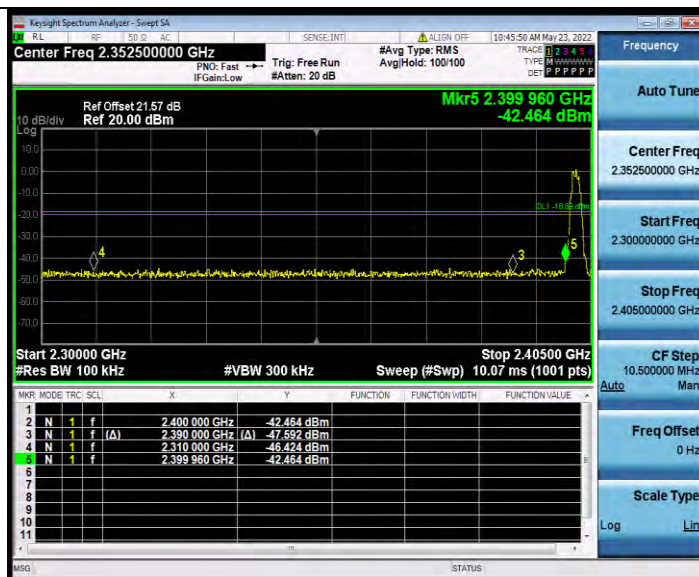


BLE_2M_Ant1_Low_2402

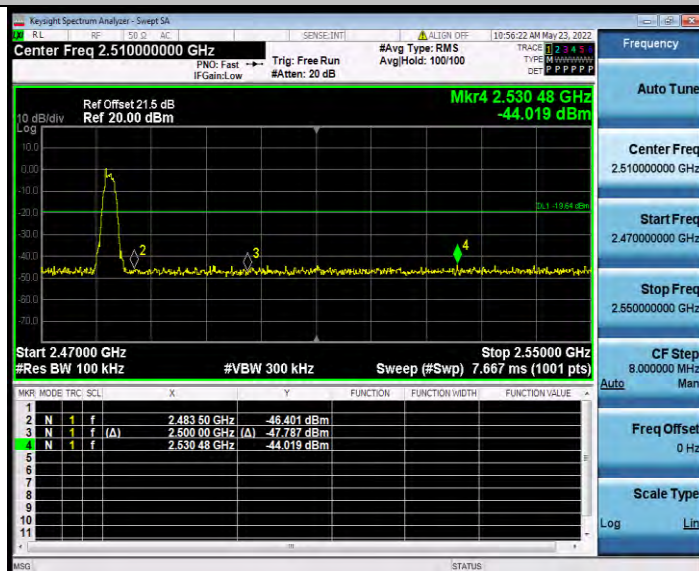


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Test Report No.: W7L-P22050003RF02



BLE_2M_Ant1_High_2480

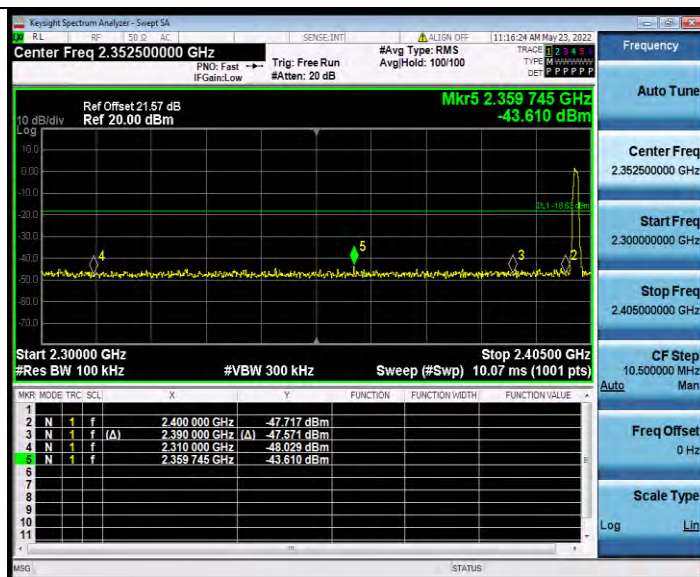


BLE_500K_Ant1_Low_2402

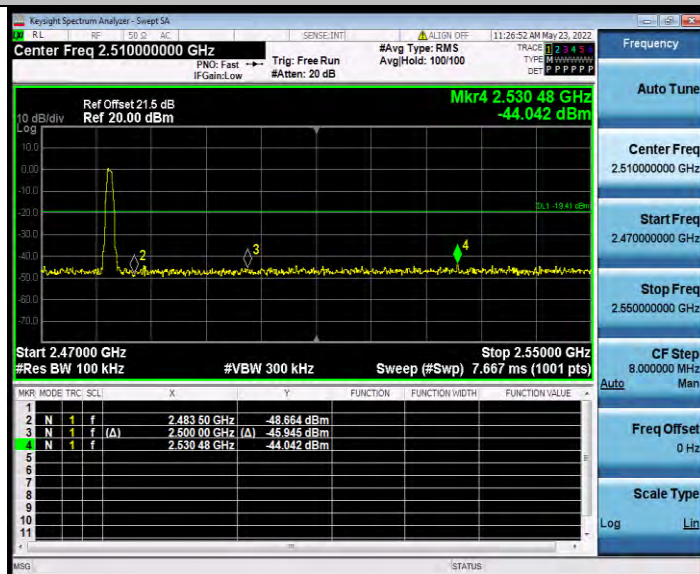


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Test Report No.: W7L-P22050003RF02



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	30~1000	-0.52	-43.27	≤-20.52	PASS
			1000~26500	-0.52	-28.08	≤-20.52	PASS
		2440	30~1000	0.34	-43.73	≤-19.66	PASS
			1000~26500	0.34	-27.79	≤-19.66	PASS
		2480	30~1000	-2.58	-42.86	≤-22.58	PASS
			1000~26500	-2.58	-27.61	≤-22.58	PASS
BLE_1M	Ant1	2402	30~1000	1.35	-43.37	≤-18.65	PASS
			1000~26500	1.35	-27.67	≤-18.65	PASS
		2440	30~1000	1.36	-43.15	≤-18.64	PASS
			1000~26500	1.36	-27.48	≤-18.64	PASS
		2480	30~1000	0.60	-42.95	≤-19.4	PASS
			1000~26500	0.60	-27.09	≤-19.4	PASS
BLE_2M	Ant1	2402	30~1000	1.11	-43.27	≤-18.89	PASS
			1000~26500	1.11	-26.68	≤-18.89	PASS
		2440	30~1000	1.01	-42.91	≤-18.99	PASS
			1000~26500	1.01	-27.87	≤-18.99	PASS
		2480	30~1000	0.36	-43.23	≤-19.64	PASS
			1000~26500	0.36	-27.46	≤-19.64	PASS
BLE_500K	Ant1	2402	30~1000	1.37	-43.15	≤-18.63	PASS
			1000~26500	1.37	-27.48	≤-18.63	PASS
		2440	30~1000	1.37	-43.43	≤-18.63	PASS
			1000~26500	1.37	-28.02	≤-18.63	PASS
		2480	30~1000	0.59	-43.06	≤-19.41	PASS
			1000~26500	0.59	-27.04	≤-19.41	PASS

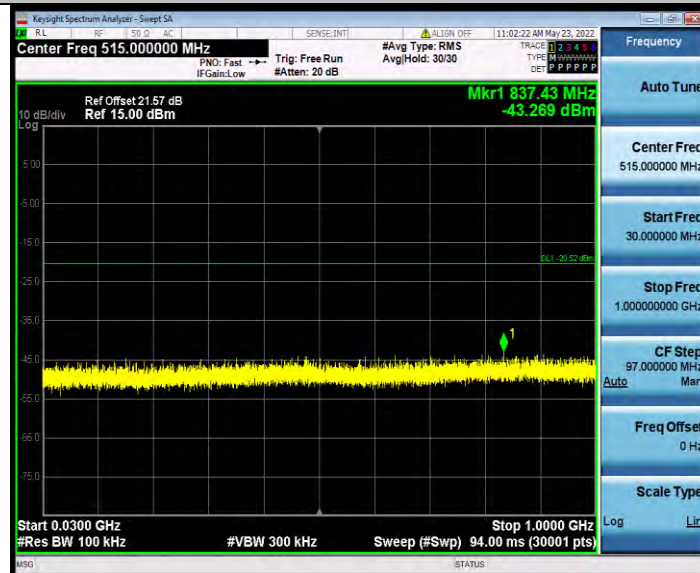


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TEST GRAPHS

BLE_125K_Ant1_2402_30~1000



BLE_125K_Ant1_2402_1000~26500



BLE_125K_Ant1_2440_30~1000



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BLE_125K_Ant1_2440_1000~26500

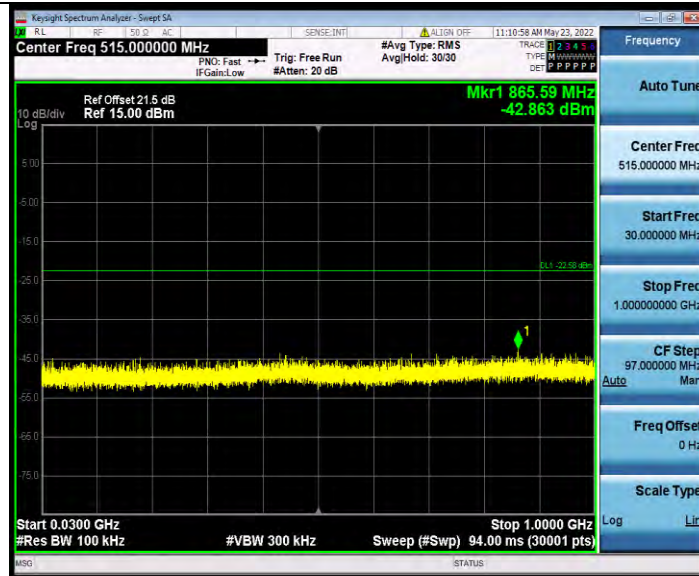


BLE_125K_Ant1_2480_30~1000



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BLE_125K_Ant1_2480_1000~26500

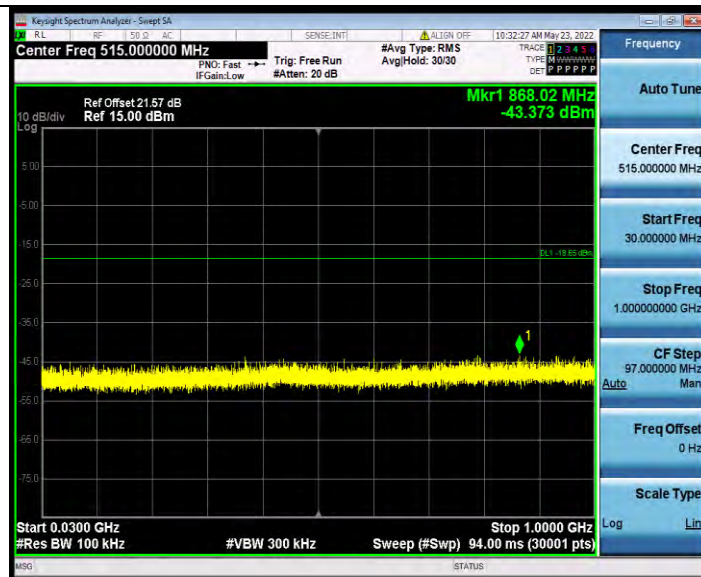


BLE_1M_Ant1_2402_30~1000



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BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_30~1000



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Test Report No.: W7L-P22050003RF02



BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_30~1000



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Test Report No.: W7L-P22050003RF02



BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_30~1000



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Test Report No.: W7L-P22050003RF02



BLE_2M_Ant1_2402_1000~26500

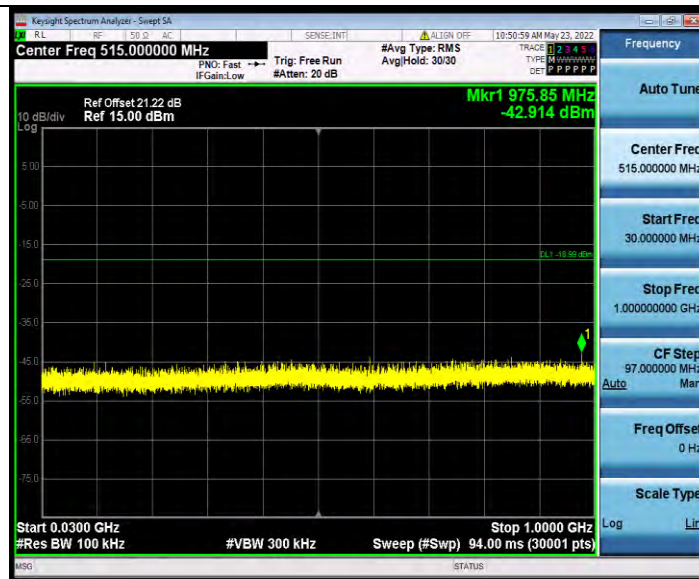


BLE_2M_Ant1_2440_30~1000



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BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_30~1000



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Test Report No.: W7L-P22050003RF02



BLE_2M_Ant1_2480_1000~26500

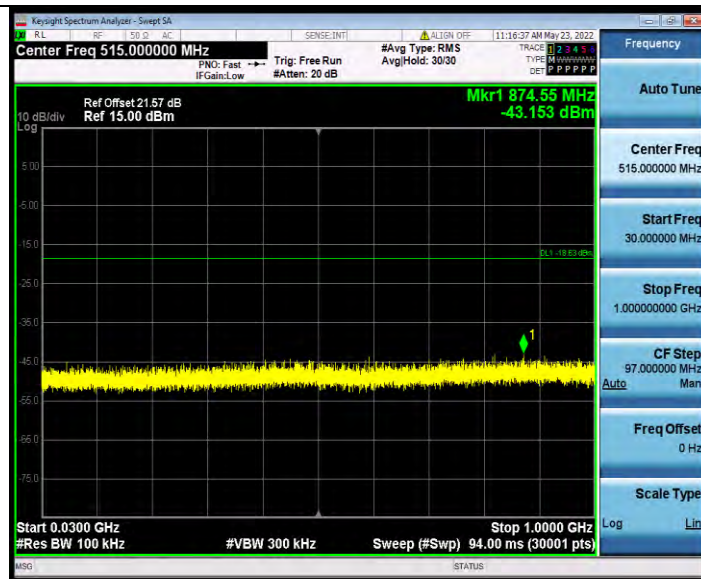


BLE_500K_Ant1_2402_30~1000



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BLE_500K_Ant1_2402_1000~26500

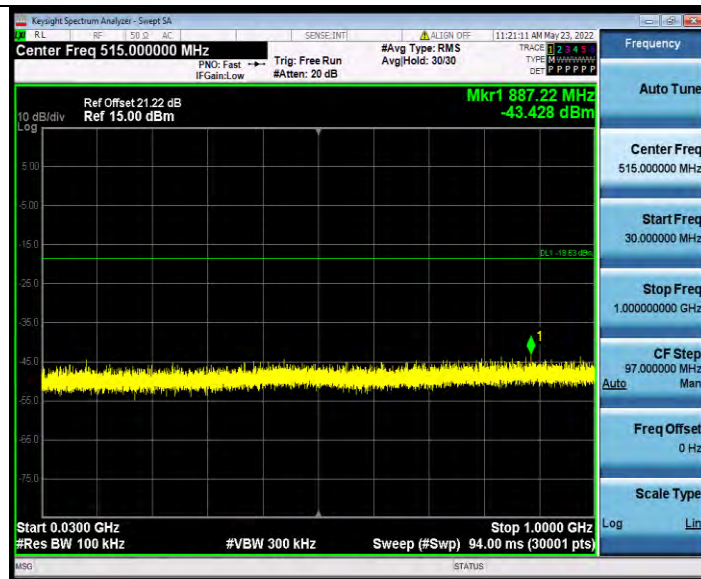


BLE_500K_Ant1_2440_30~1000



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BLE_500K_Ant1_2440_1000~26500

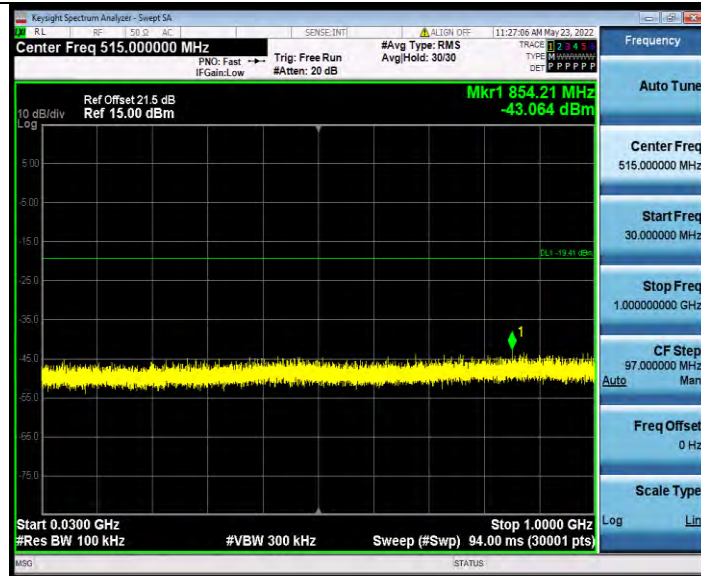


BLE_500K_Ant1_2480_30~1000



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BLE_500K_Ant1_2480_1000~26500





DUTY CYCLE TEST RESULT

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period [ms]	Duty Cycle [%]
BLE_125K	Ant1	2402	13.02	13.74	94.76
		2440	13.02	13.74	94.76
		2480	13.02	13.74	94.76
BLE_1M	Ant1	2402	1.64	1.88	87.23
		2440	1.64	1.88	87.23
		2480	1.64	1.88	87.23
BLE_2M	Ant1	2402	0.82	1.25	65.60
		2440	0.82	1.25	65.60
		2480	0.82	1.25	65.60
BLE_500K	Ant1	2402	3.56	4.38	81.28
		2440	3.56	4.38	81.28
		2480	3.56	4.38	81.28

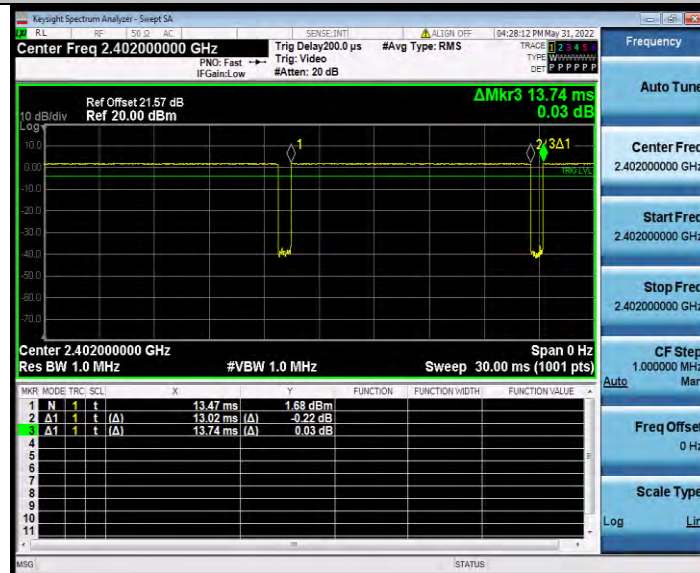


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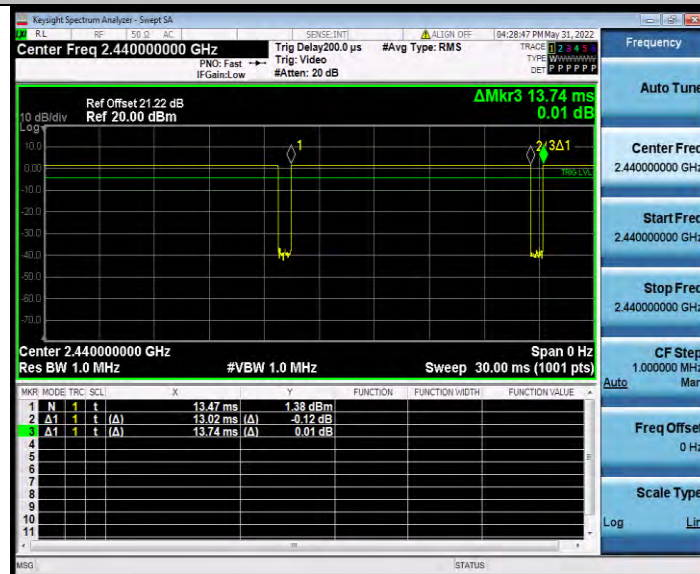
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TEST GRAPHS

BLE_125K_Ant1_2402



BLE_125K_Ant1_2440

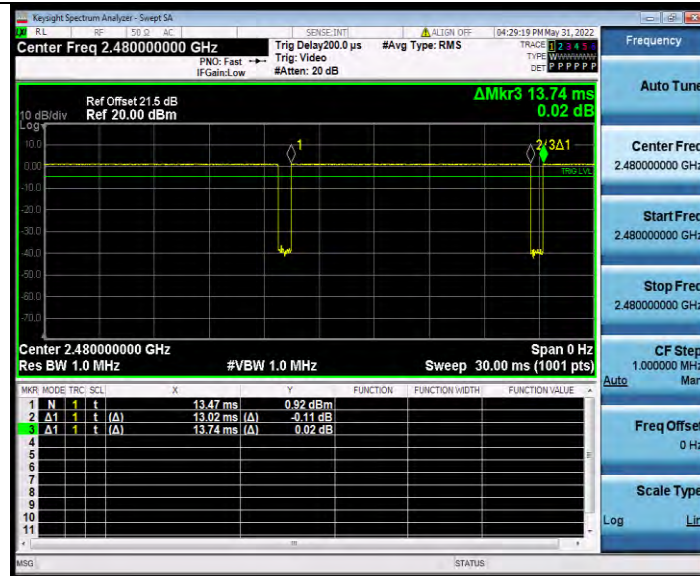


BLE_125K_Ant1_2480

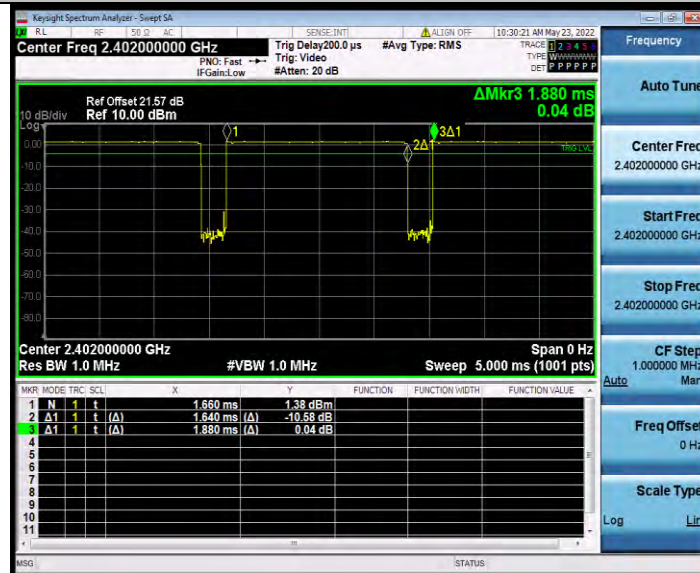


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BLE_1M_Ant1_2402

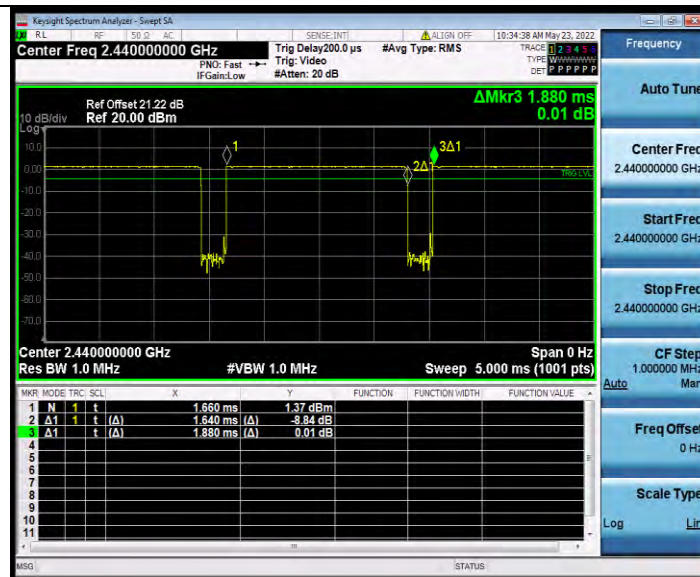


BLE_1M_Ant1_2440

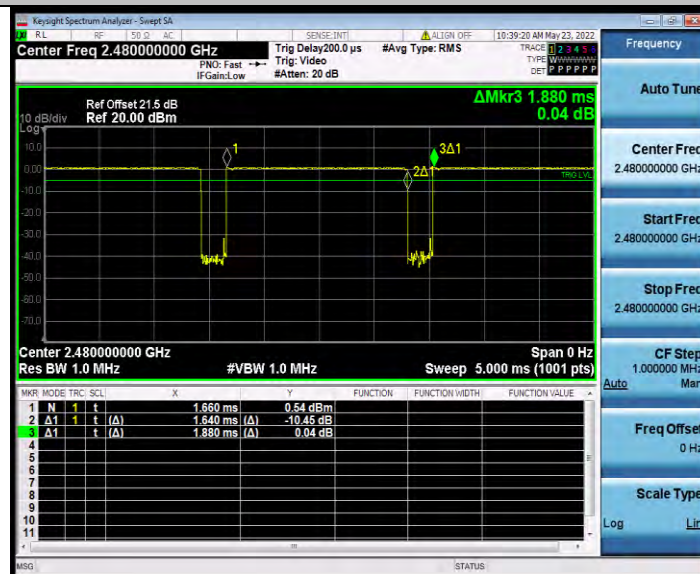


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BLE_1M_Ant1_2480



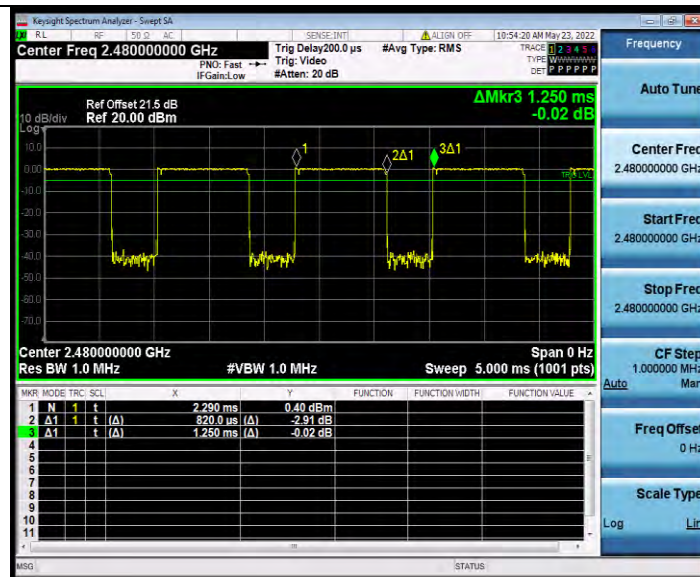
BLE_2M_Ant1_2402



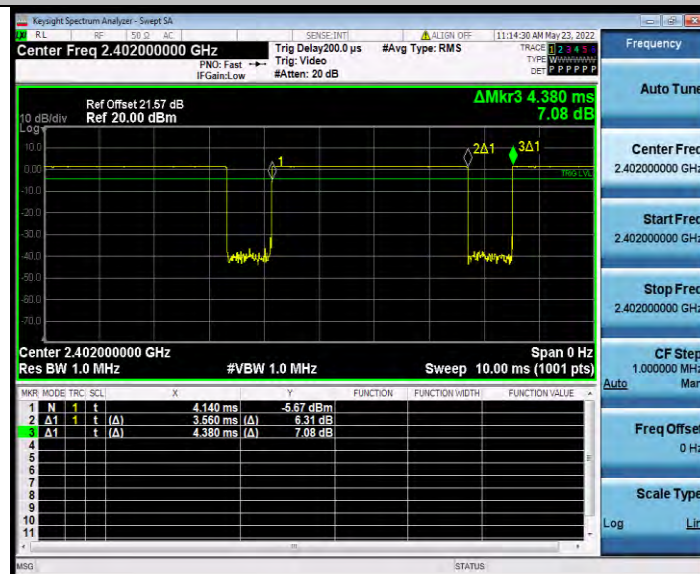


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BLE_500K_Ant1_2402

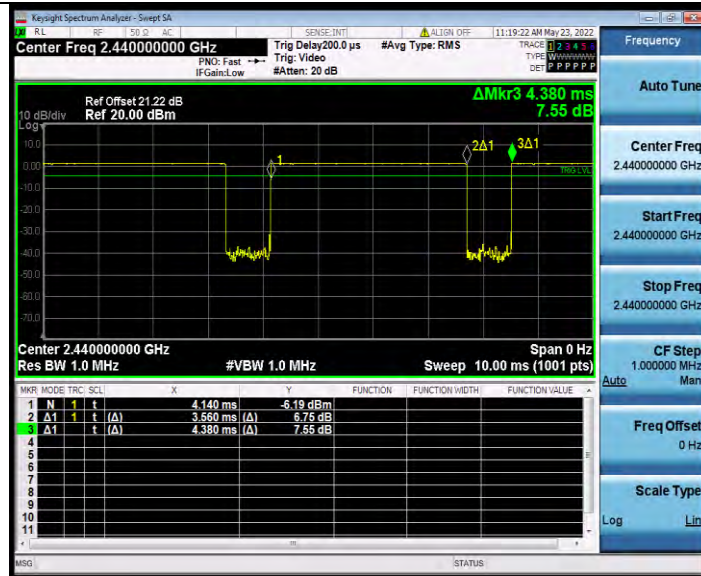


BLE_500K_Ant1_2440



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BLE_500K_Ant1_2480

