



BUREAU
VERITAS

Test Report No.: W7L-P21100018-2RF02



BLE_500K_Ant1_2402

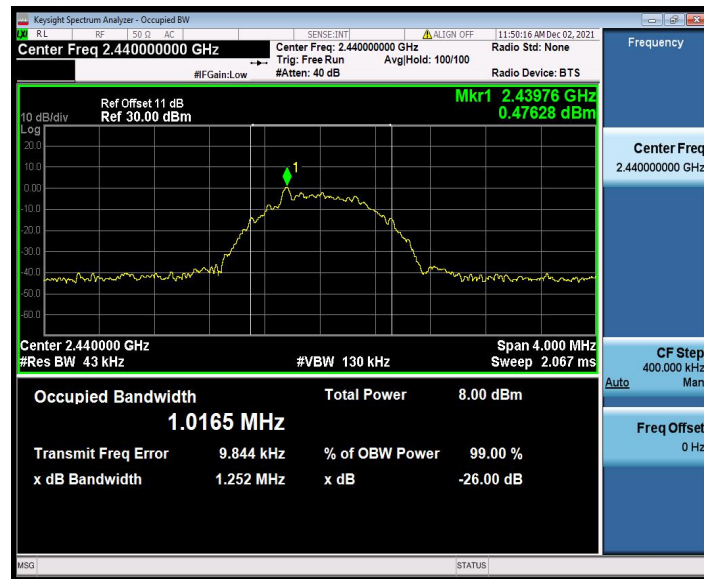


BLE_500K_Ant1_2440



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BLE_500K_Ant1_2480



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

TestMode	Antenna	Channel	Result[dBm]	Result[mW]	Limit[dBm]	Verdict	Power setting
1M	Ant1	2402	1.68	1.47	≤30	PASS	default
		2440	1.35	1.36	≤30	PASS	default
		2480	0.26	1.06	≤30	PASS	default
2M	Ant1	2402	1.72	1.49	≤30	PASS	default
		2440	1.28	1.34	≤30	PASS	default
		2480	0.31	1.07	≤30	PASS	default
BLE_125K	Ant1	2402	1.58	1.44	≤30	PASS	default
		2440	1.16	1.31	≤30	PASS	default
		2480	0.25	1.06	≤30	PASS	default
BLE_500K	Ant1	2402	1.70	1.48	≤30	PASS	default
		2440	1.32	1.36	≤30	PASS	default
		2480	0.29	1.07	≤30	PASS	default

AVERAGE POWER TEST RESULT

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict	Power setting
1M	Ant1	2402	0.60	/	PASS	default
		2440	0.25	/	PASS	default
		2480	-0.94	/	PASS	default
2M	Ant1	2402	-0.85	/	PASS	default
		2440	-1.22	/	PASS	default
		2480	-2.16	/	PASS	default
BLE_125K	Ant1	2402	1.15	/	PASS	default
		2440	0.75	/	PASS	default
		2480	-0.33	/	PASS	default
BLE_500K	Ant1	2402	0.26	/	PASS	default
		2440	-0.12	/	PASS	default
		2480	-1.22	/	PASS	default

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

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_125K	Ant1	2402	-5.04	≤8	PASS
		2440	-5.47	≤8	PASS
		2480	-6.14	≤8	PASS
BLE_1M	Ant1	2402	-14.99	≤8	PASS
		2440	-15.54	≤8	PASS
		2480	-16.05	≤8	PASS
BLE_2M	Ant1	2402	-18.10	≤8	PASS
		2440	-18.68	≤8	PASS
		2480	-19.41	≤8	PASS
BLE_500K	Ant1	2402	-5.01	≤8	PASS
		2440	-5.55	≤8	PASS
		2480	-6.20	≤8	PASS

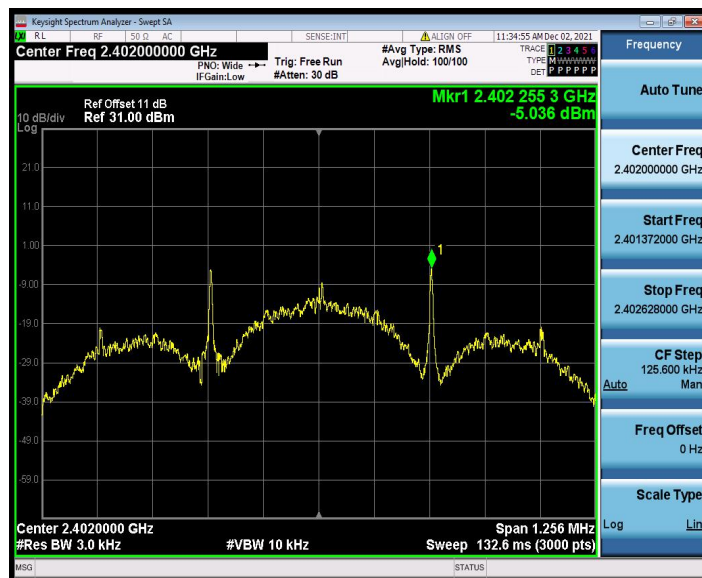


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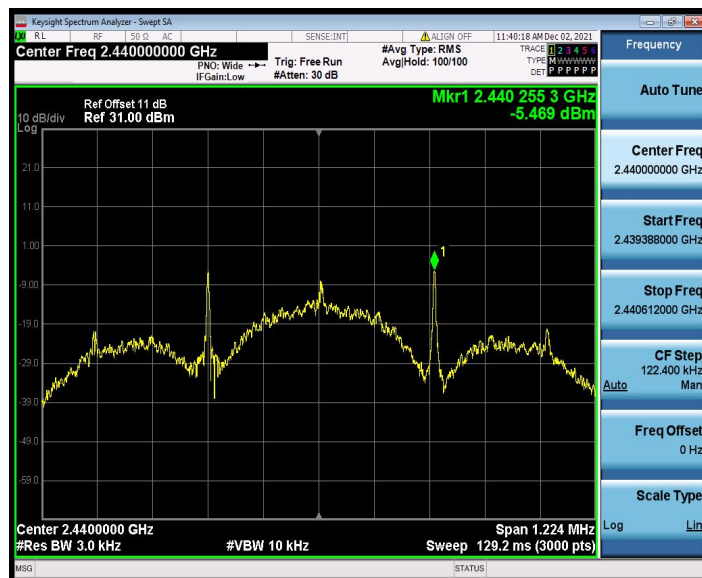
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TEST GRAPHS

BLE_125K_Ant1_2402



BLE_125K_Ant1_2440

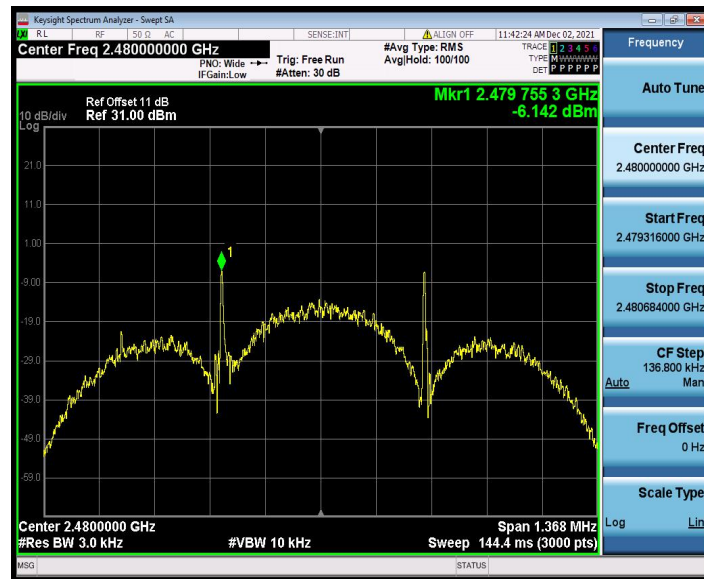


BLE_125K_Ant1_2480

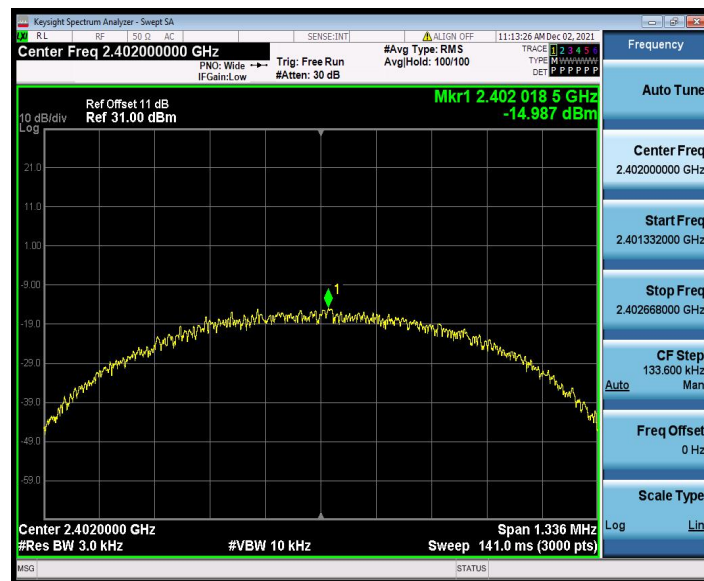


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BLE_1M_Ant1_2402

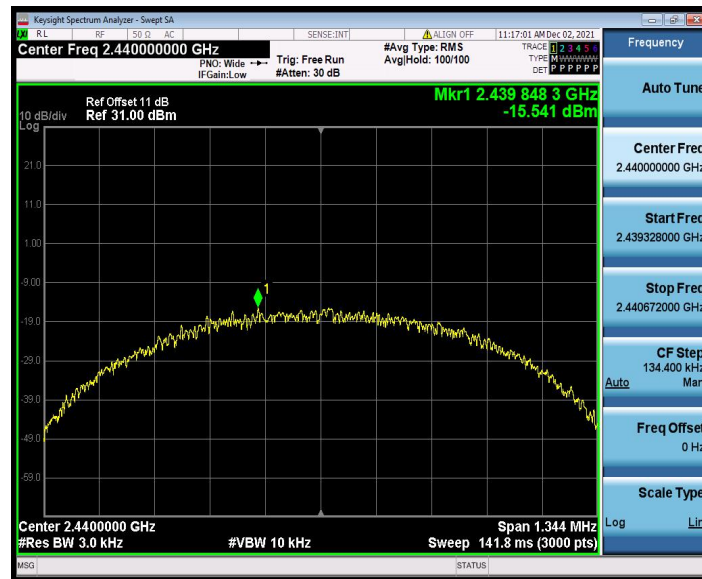


BLE_1M_Ant1_2440



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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



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BLE_2M_Ant1_2440



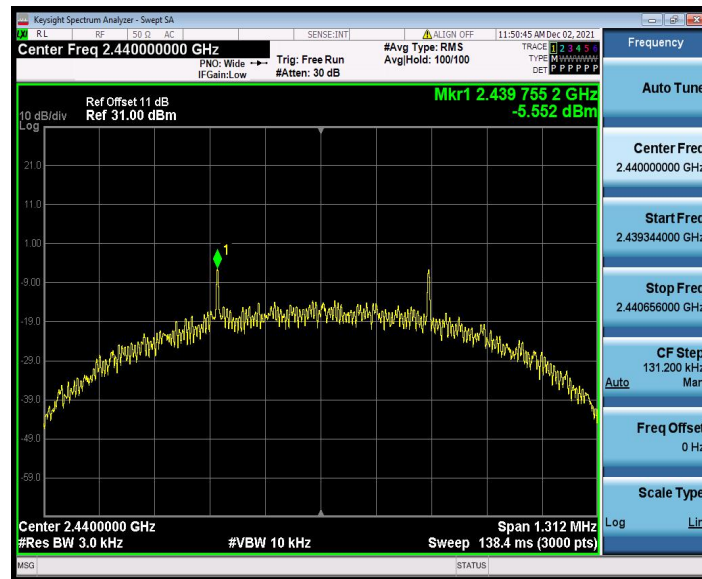
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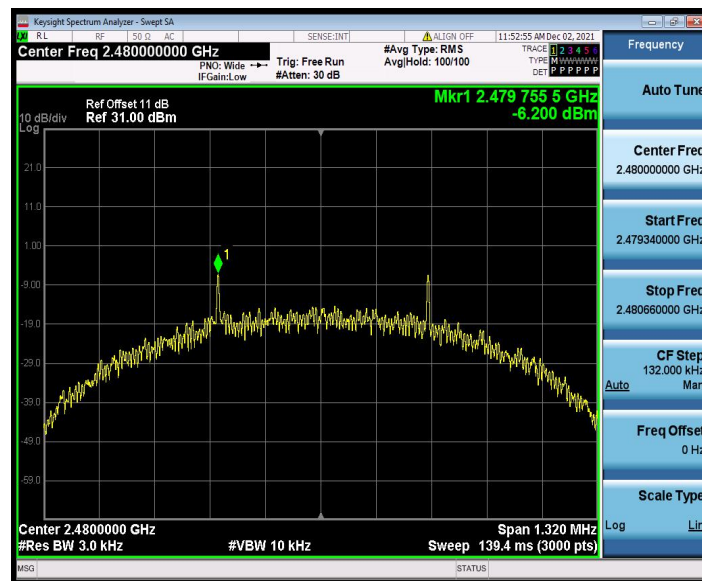


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BLE_500K_Ant1_2480





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BAND EDGE MEASUREMENTS

TEST RESULT

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_125K	Ant1	Low	2402	-1.90	-44.74	≤ -21.9	PASS
		High	2480	-0.74	-44.54	≤ -20.74	PASS
BLE_1M	Ant1	Low	2402	1.19	-44.93	≤ -18.81	PASS
		High	2480	0.06	-44.6	≤ -19.94	PASS
BLE_2M	Ant1	Low	2402	0.99	-43.45	≤ -19.02	PASS
		High	2480	0.10	-44.92	≤ -19.9	PASS
BLE_500K	Ant1	Low	2402	1.24	-44.5	≤ -18.76	PASS
		High	2480	0.05	-44.6	≤ -19.95	PASS

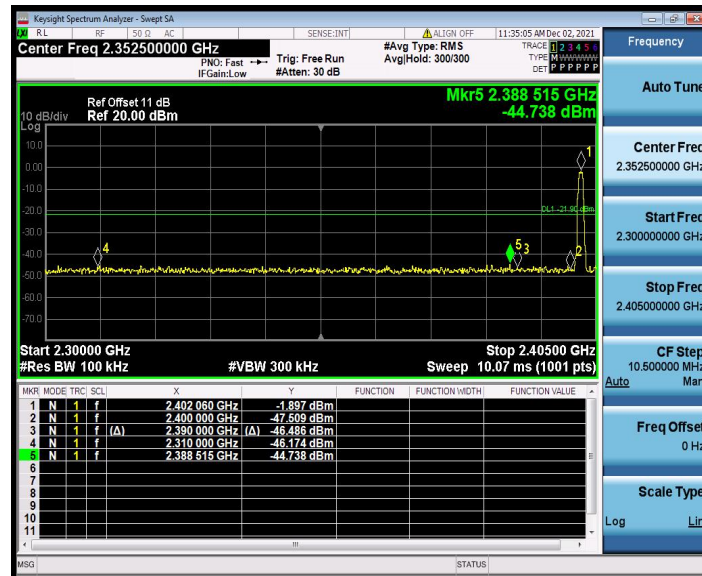


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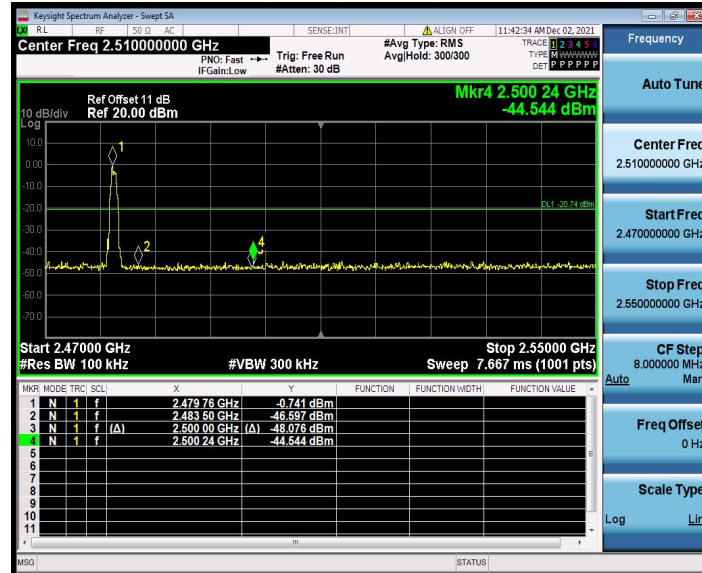
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TEST GRAPHS

BLE_125K_Ant1_Low_2402



BLE_125K_Ant1_High_2480

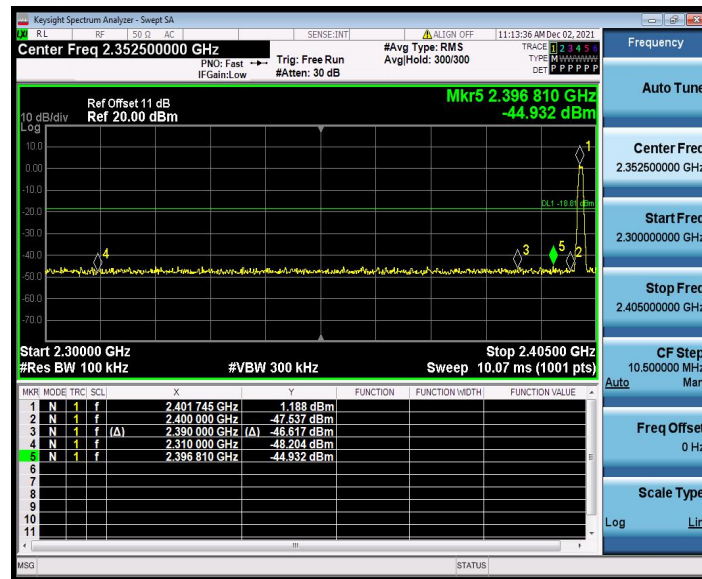


BLE_1M_Ant1_Low_2402

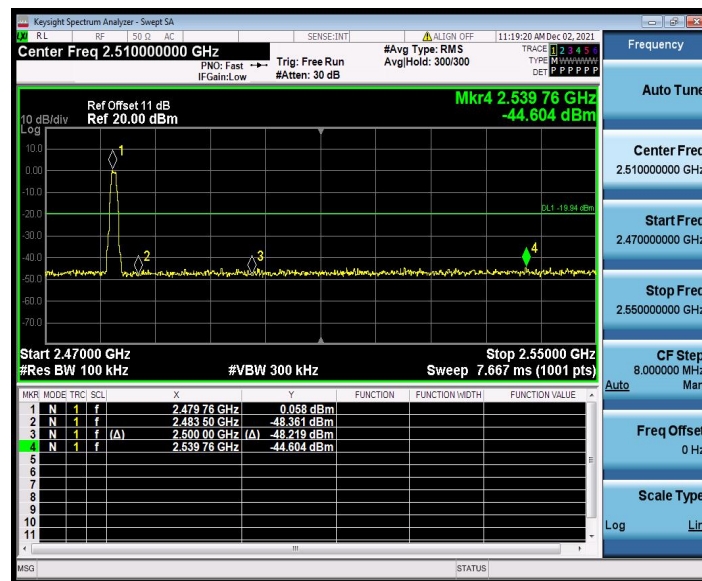


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BLE_1M_Ant1_High_2480

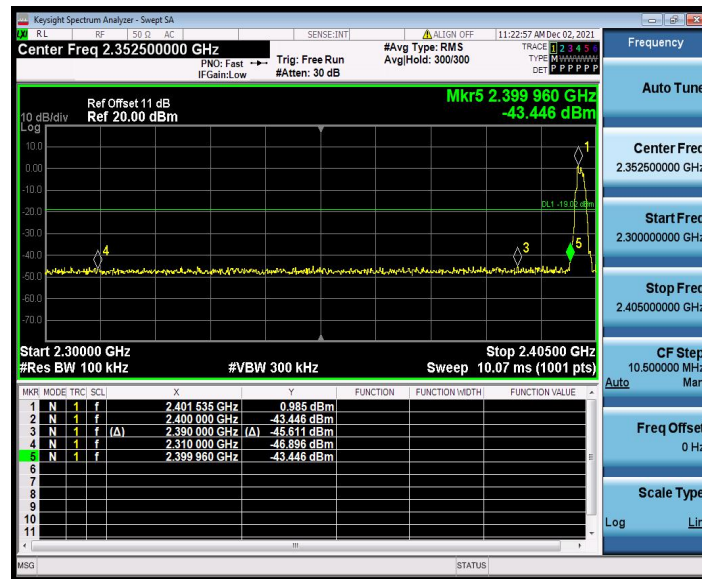


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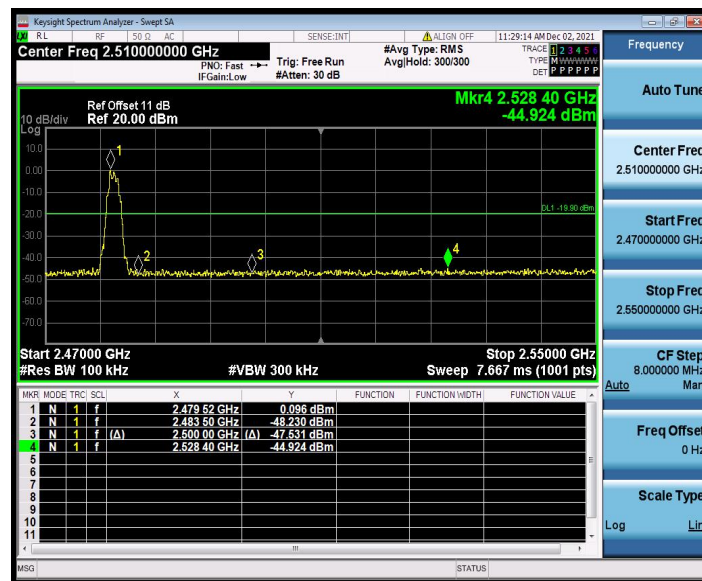


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BLE_2M_Ant1_High_2480

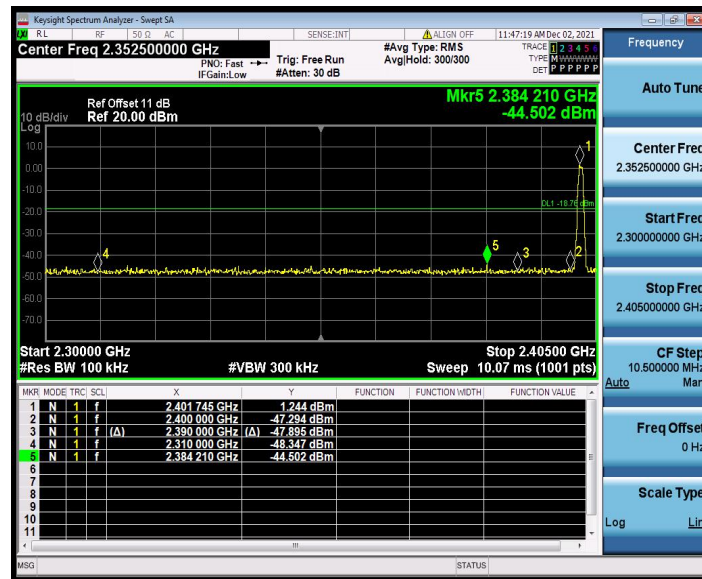


BLE_500K_Ant1_Low_2402

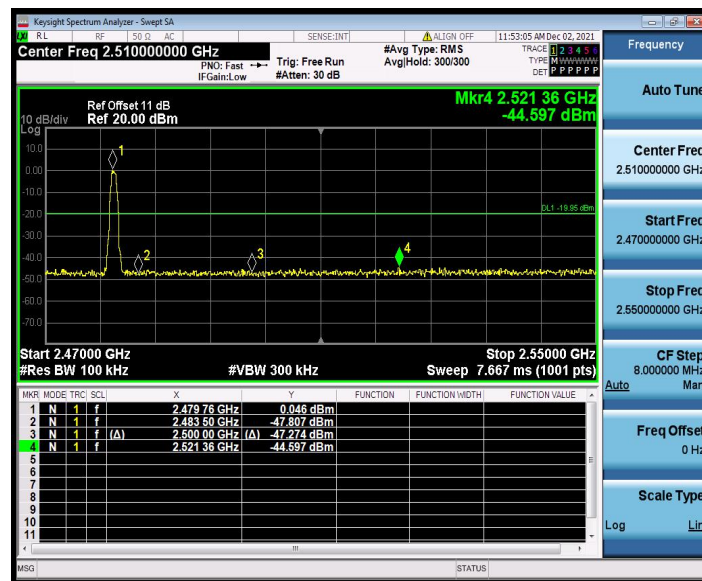


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Test Report No.: W7L-P21100018-2RF02



BLE_500K_Ant1_High_2480



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

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_125K	Ant1	2402	Reference	-1.96	-1.96	---	PASS
			30~1000	-1.96	-54.39	≤-21.96	PASS
			1000~26500	-1.96	-38.29	≤-21.96	PASS
		2440	Reference	-2.51	-2.51	---	PASS
			30~1000	-2.51	-54.43	≤-22.51	PASS
			1000~26500	-2.51	-38.55	≤-22.51	PASS
		2480	Reference	-3.15	-3.15	---	PASS
			30~1000	-3.15	-54.52	≤-23.15	PASS
			1000~26500	-3.15	-37.69	≤-23.15	PASS
BLE_1M	Ant1	2402	Reference	0.52	0.52	---	PASS
			30~1000	0.52	-54.51	≤-19.48	PASS
			1000~26500	0.52	-38.14	≤-19.48	PASS
		2440	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-54.73	≤-19.45	PASS
			1000~26500	0.55	-38.15	≤-19.45	PASS
		2480	Reference	-0.30	-0.30	---	PASS
			30~1000	-0.30	-54.41	≤-20.3	PASS
			1000~26500	-0.30	-38.73	≤-20.3	PASS
BLE_2M	Ant1	2402	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-53.8	≤-20.15	PASS
			1000~26500	-0.15	-38	≤-20.15	PASS
		2440	Reference	-1.93	-1.93	---	PASS
			30~1000	-1.93	-54.25	≤-21.93	PASS
			1000~26500	-1.93	-38.48	≤-21.93	PASS
		2480	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-54.32	≤-20.7	PASS
			1000~26500	-0.70	-38.2	≤-20.7	PASS
BLE_500K	Ant1	2402	Reference	-0.05	-0.05	---	PASS
			30~1000	-0.05	-53.89	≤-20.05	PASS



			1000~26500	-0.05	-38.75	≤ -20.05	PASS
		2440	Reference	-0.50	-0.50	---	PASS
			30~1000	-0.50	-54.51	≤ -20.5	PASS
			1000~26500	-0.50	-38.81	≤ -20.5	PASS
		2480	Reference	-1.89	-1.89	---	PASS
			30~1000	-1.89	-53.94	≤ -21.89	PASS
			1000~26500	-1.89	-38.09	≤ -21.89	PASS

TEST GRAPHS

BLE_125K_Ant1_2402_0~Reference

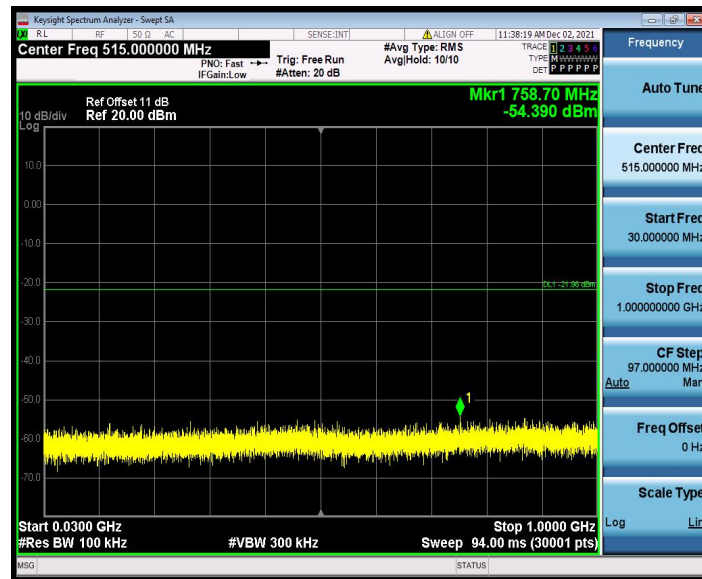


BLE_125K_Ant1_2402_30~1000

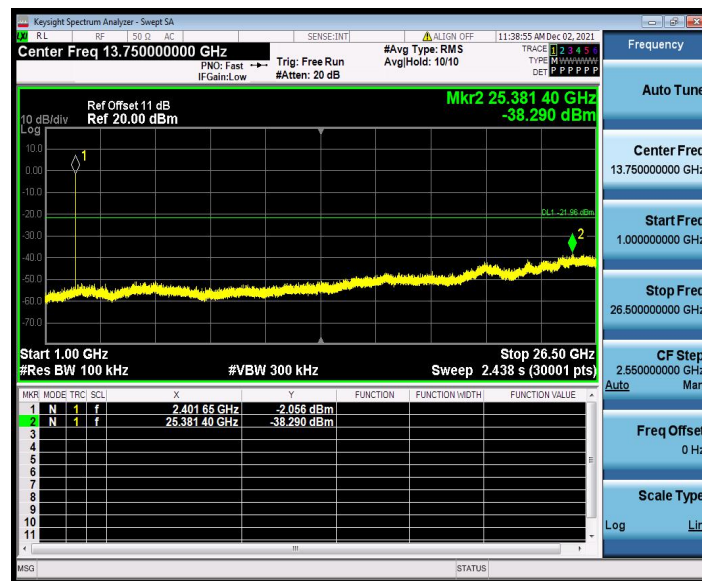


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BLE_125K_Ant1_2402_1000~26500



BLE_125K_Ant1_2440_0~Reference

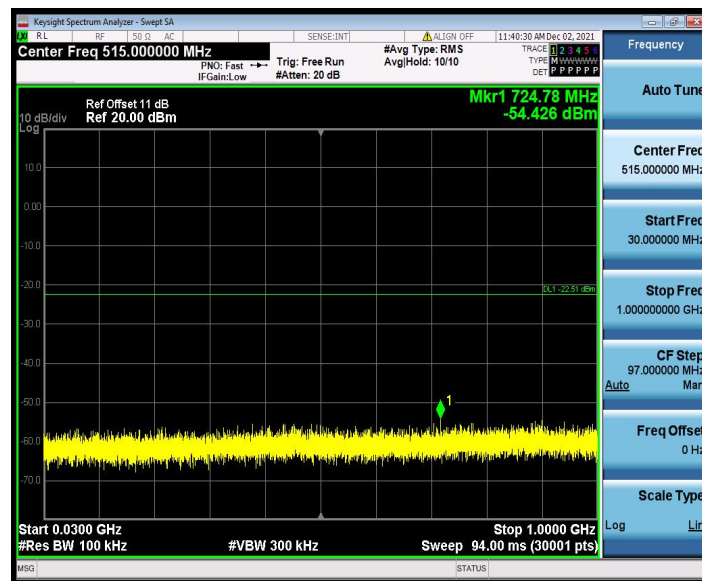


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BLE_125K_Ant1_2440_30~1000

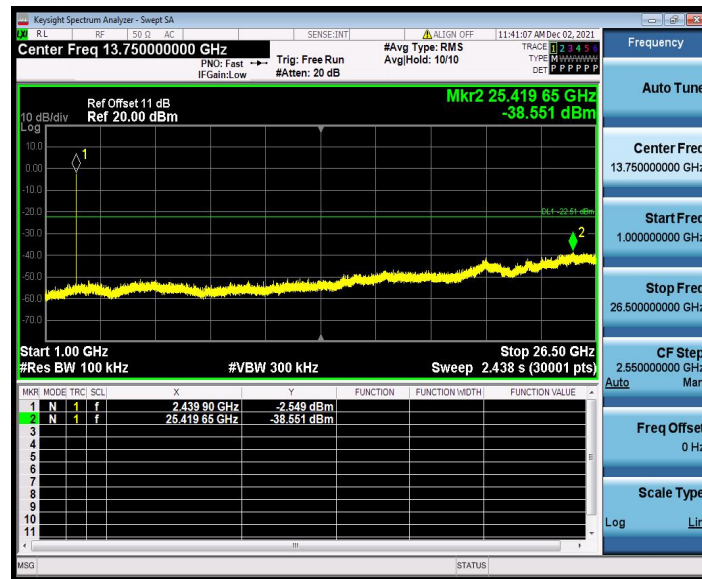


BLE_125K_Ant1_2440_1000~26500



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BLE_125K_Ant1_2480_0~Reference



BLE_125K_Ant1_2480_30~1000



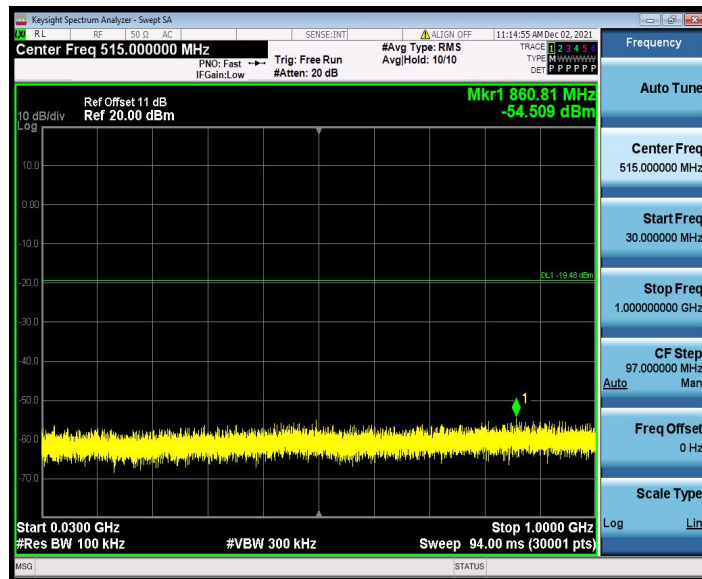


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BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500