



BUREAU
VERITAS

Test Report No.: W7L-P22110036RF02

TEST GRAPHS

BLE_125K_Ant1_2402



BLE_125K_Ant1_2440



BLE_125K_Ant1_2480

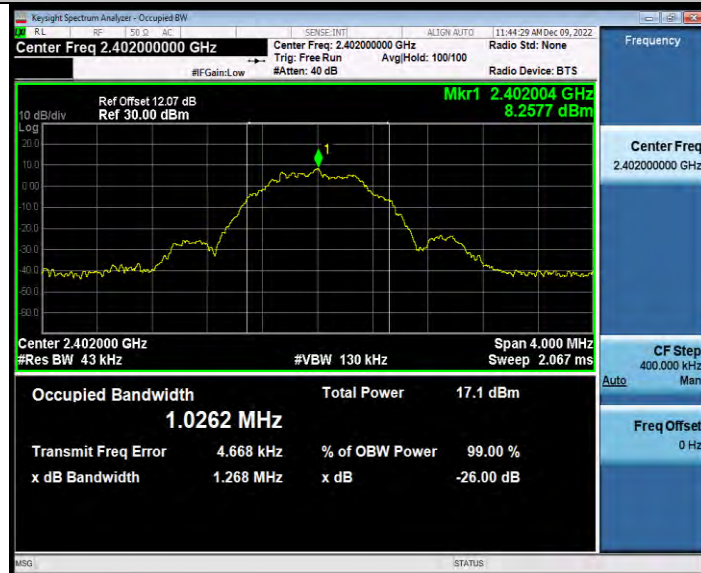


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BLE_1M_Ant1_2402



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

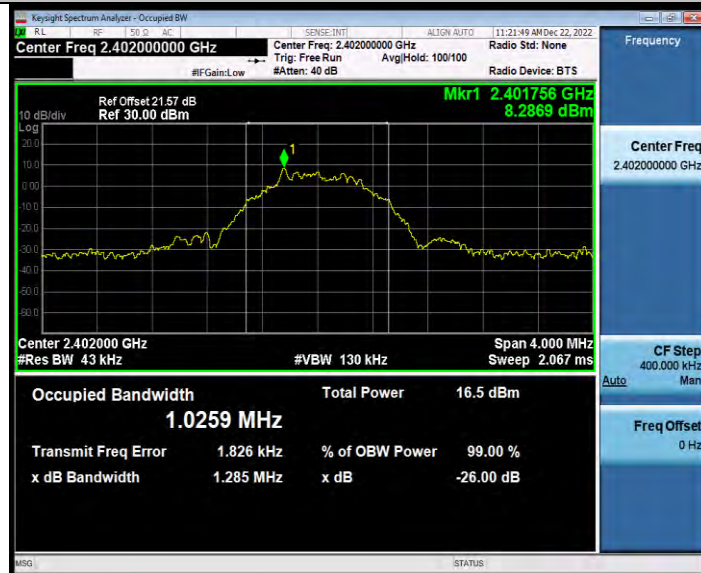


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BLE_500K_Ant1_2402



BLE_500K_Ant1_2440

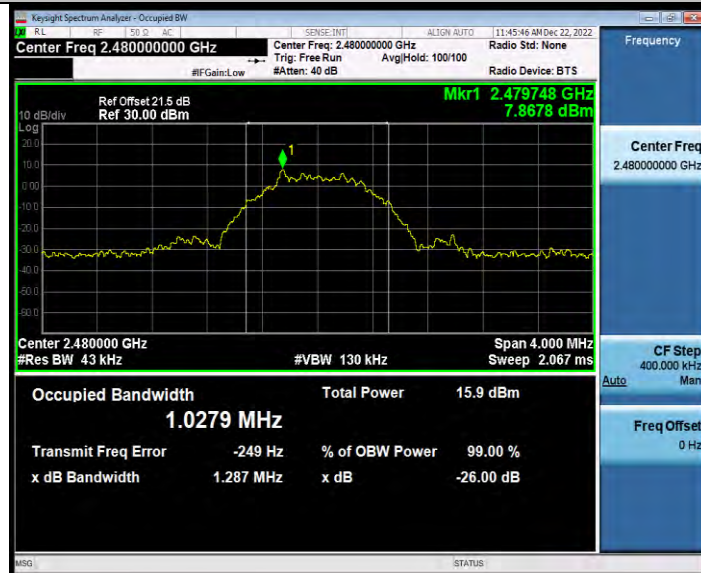


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BLE_500K_Ant1_2480



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

TestMode	Channel	Average power [dBm]	Peak power [dBm]	Peak power [mw]	Conducted Limit [dBm]	EIRP [dBm]	EIRP [mw]	EIRP Limit [dBm]	Verdict	Power Setting
BLE_1M	2402	8.71	8.82	7.62	≤30	8.92	7.80	≤36	PASS	Default
	2440	9.12	9.39	8.69	≤30	9.49	8.89	≤36	PASS	Default
	2480	8.38	8.72	7.45	≤30	8.82	7.62	≤36	PASS	Default
BLE_2M	2402	8.90	8.95	7.85	≤30	9.05	8.04	≤36	PASS	Default
	2440	9.28	9.50	8.91	≤30	9.60	9.12	≤36	PASS	Default
	2480	8.61	8.80	7.59	≤30	8.90	7.76	≤36	PASS	Default
BLE_125k	2402	8.49	8.81	7.60	≤30	8.91	7.78	≤36	PASS	Default
	2440	9.35	9.37	8.65	≤30	9.47	8.85	≤36	PASS	Default
	2480	8.63	8.65	7.33	≤30	8.75	7.50	≤36	PASS	Default
BLE_500K	2402	8.49	8.82	7.62	≤30	8.92	7.80	≤36	PASS	Default
	2440	9.05	9.40	8.71	≤30	9.50	8.91	≤36	PASS	Default
	2480	8.00	8.72	7.45	≤30	8.82	7.62	≤36	PASS	Default
Note:EIRP=Peak Power+Gain										



MAXIMUM POWER SPECTRAL DENSITY TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_125K	Ant1	2402	3.44	≤8.00	PASS
		2440	2.87	≤8.00	PASS
		2480	2.92	≤8.00	PASS
BLE_1M	Ant1	2402	-4.33	≤8.00	PASS
		2440	-5.12	≤8.00	PASS
		2480	-5.16	≤8.00	PASS
BLE_2M	Ant1	2402	-7.24	≤8.00	PASS
		2440	-8.53	≤8.00	PASS
		2480	-8.49	≤8.00	PASS
BLE_500K	Ant1	2402	3.30	≤8.00	PASS
		2440	2.81	≤8.00	PASS
		2480	2.96	≤8.00	PASS



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BLE_125K_Ant1_2402



BLE_125K_Ant1_2440



BLE_125K_Ant1_2480



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BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

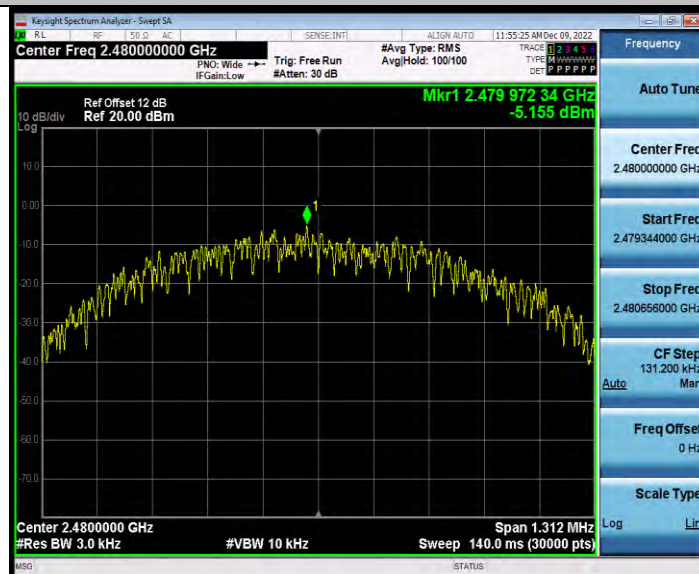


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BLE_1M_Ant1_2480

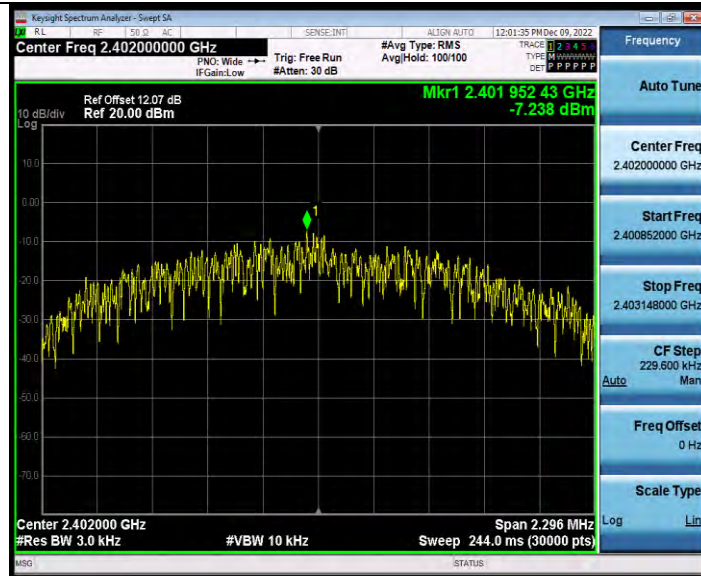


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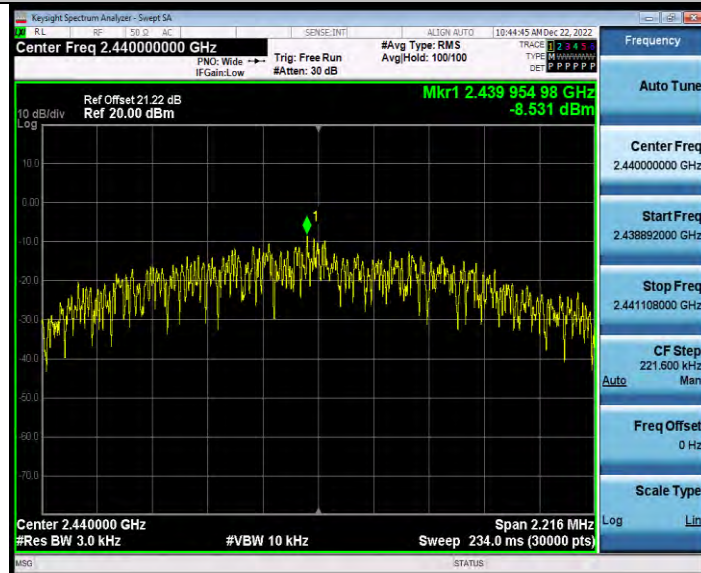


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BLE_2M_Ant1_2440

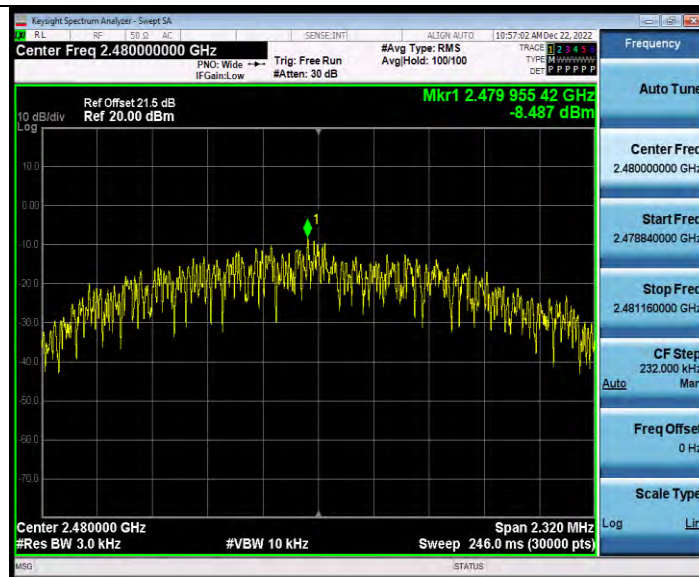


BLE_2M_Ant1_2480



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BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



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BLE_500K_Ant1_2480



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

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_125K	Ant1	Low	2402	6.88	-34.76	≤-13.12	PASS
		High	2480	6.02	-34.59	≤-13.98	PASS
BLE_1M	Ant1	Low	2402	9.83	-44.26	≤-10.17	PASS
		High	2480	8.92	-43.61	≤-11.08	PASS
BLE_2M	Ant1	Low	2402	8.83	-29.87	≤-11.17	PASS
		High	2480	8.59	-34.39	≤-11.41	PASS
BLE_500K	Ant1	Low	2402	8.57	-35.26	≤-11.43	PASS
		High	2480	8.71	-34.8	≤-11.29	PASS

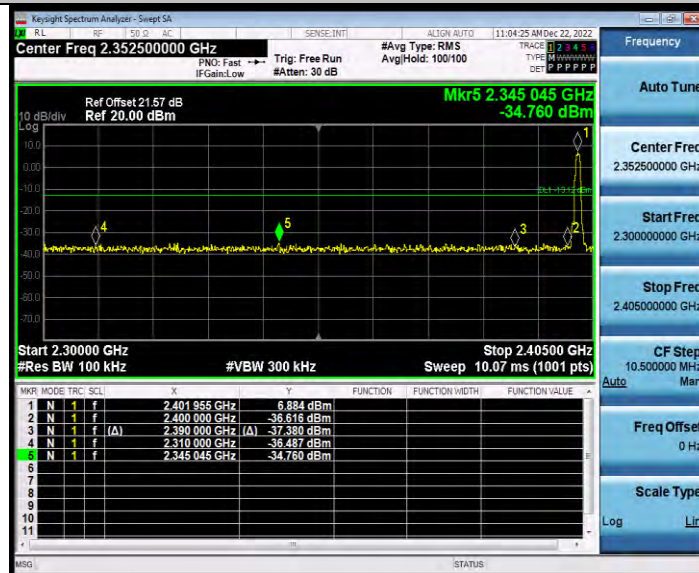


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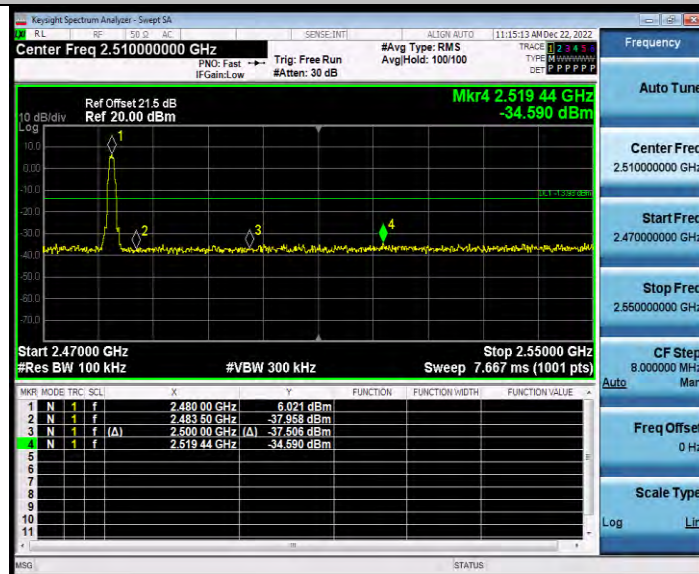
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TEST GRAPHS

BLE_125K_Ant1_Low_2402



BLE_125K_Ant1_High_2480

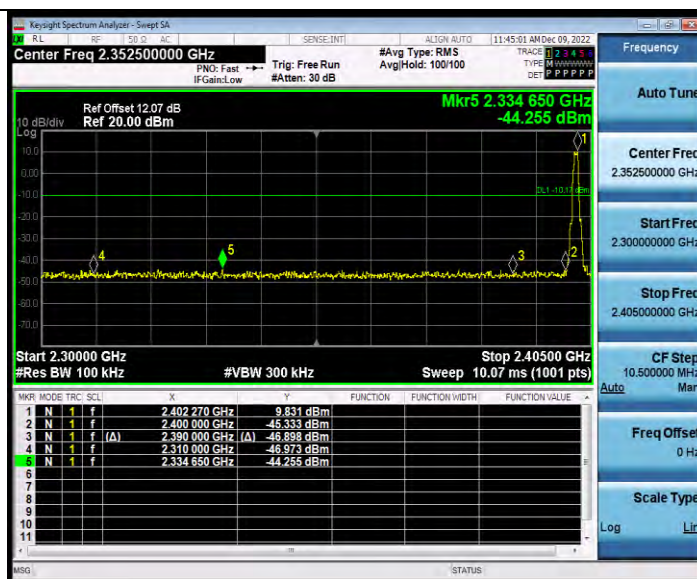


BLE_1M_Ant1_Low_2402

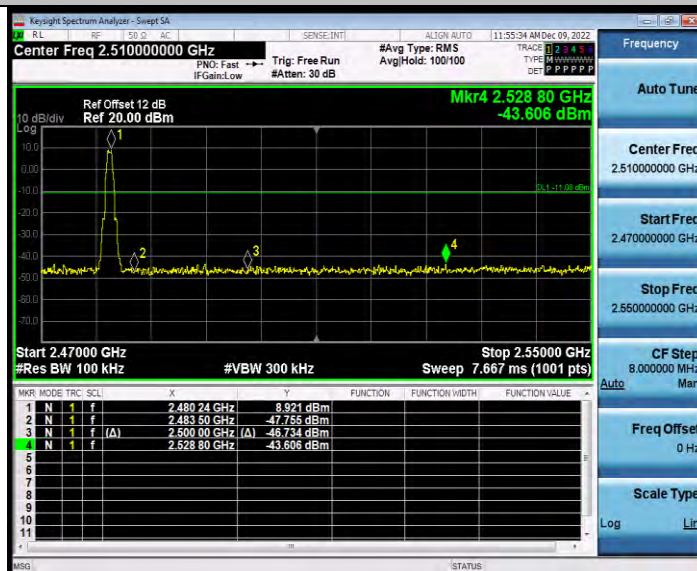


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BLE_1M_Ant1_High_2480

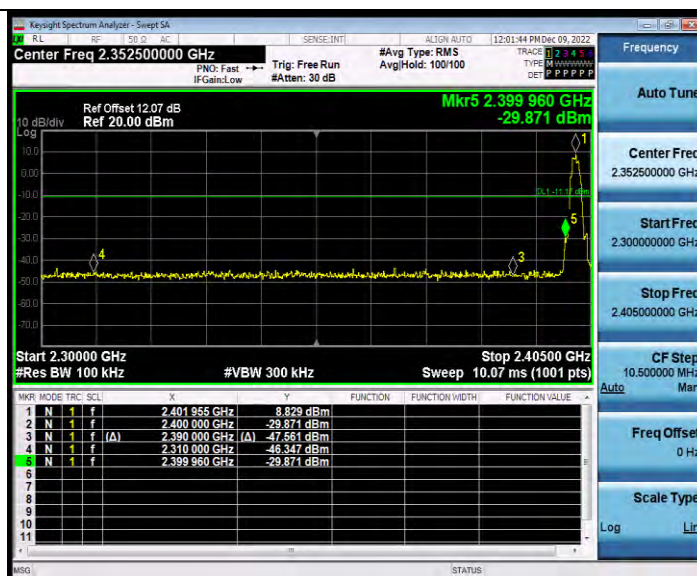


BLE_2M_Ant1_Low_2402

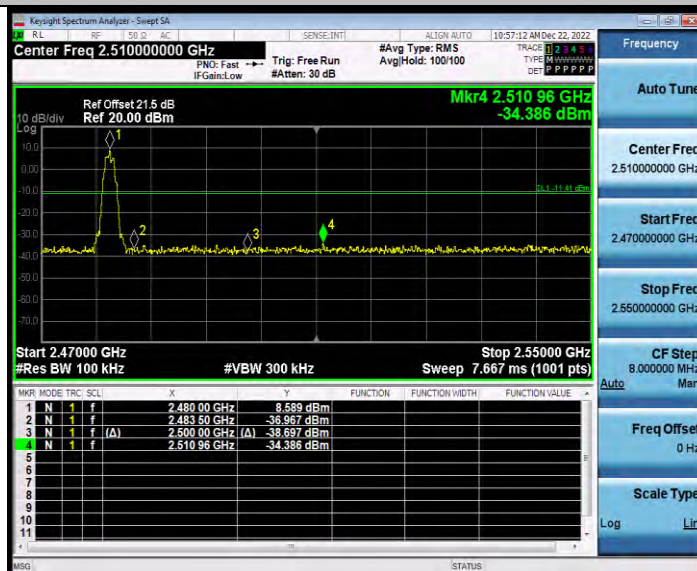


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BLE_2M_Ant1_High_2480

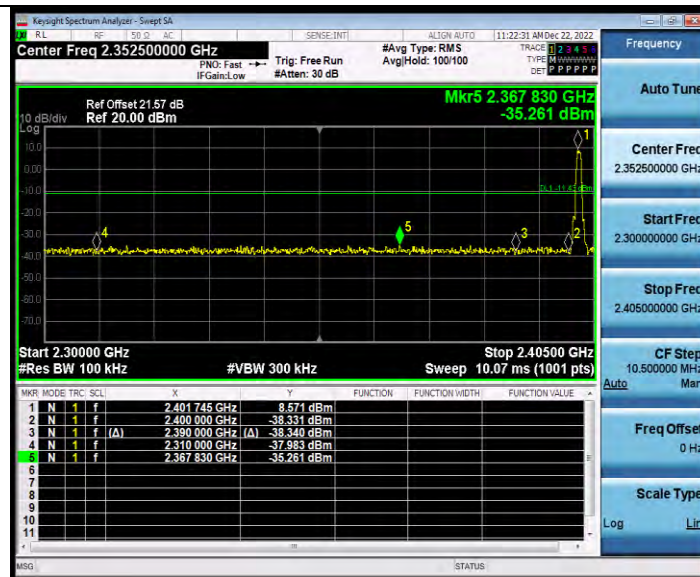


BLE_500K_Ant1_Low_2402

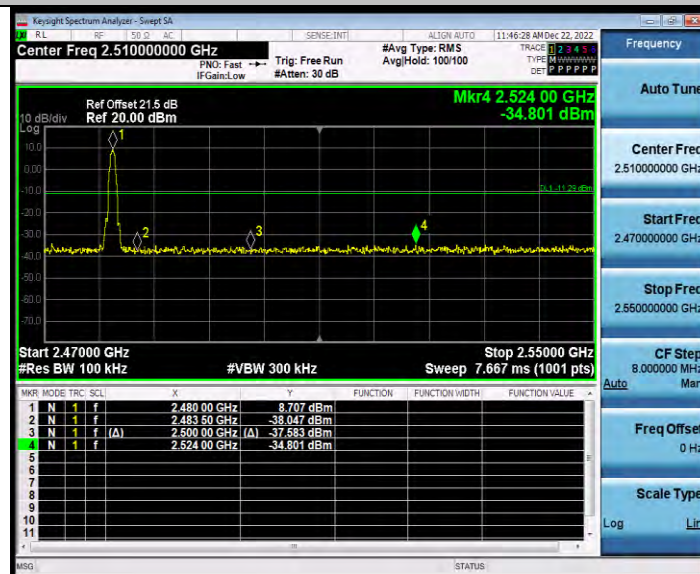


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BLE_500K_Ant1_High_2480



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

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_125K	Ant1	2402	Reference	6.18	6.18	---	PASS
			30~1000	6.18	-43.36	≤ -13.82	PASS
			1000~26500	6.18	-23.66	≤ -13.82	PASS
		2440	Reference	6.74	6.74	---	PASS
			30~1000	6.74	-43.77	≤ -13.26	PASS
			1000~26500	6.74	-24.72	≤ -13.26	PASS
		2480	Reference	6.00	6.00	---	PASS
			30~1000	6.00	-43.72	≤ -14	PASS
			1000~26500	6.00	-24.46	≤ -14	PASS
BLE_1M	Ant1	2402	Reference	9.02	9.02	---	PASS
			30~1000	9.02	-53.59	≤ -10.98	PASS
			1000~26500	9.02	-33.42	≤ -10.98	PASS
		2440	Reference	7.58	7.58	---	PASS
			30~1000	7.58	-53.37	≤ -12.42	PASS
			1000~26500	7.58	-33.88	≤ -12.42	PASS
		2480	Reference	7.86	7.86	---	PASS
			30~1000	7.86	-52.44	≤ -12.14	PASS
			1000~26500	7.86	-34.09	≤ -12.14	PASS
BLE_2M	Ant1	2402	Reference	9.01	9.01	---	PASS
			30~1000	9.01	-52.76	≤ -10.99	PASS
			1000~26500	9.01	-33.56	≤ -10.99	PASS
		2440	Reference	5.32	5.32	---	PASS
			30~1000	5.32	-43.46	≤ -14.68	PASS
			1000~26500	5.32	-24.65	≤ -14.68	PASS
		2480	Reference	5.16	5.16	---	PASS
			30~1000	5.16	-43.4	≤ -14.84	PASS
			1000~26500	5.16	-24.78	≤ -14.84	PASS
BLE_500K	Ant1	2402	Reference	8.95	8.95	---	PASS
			30~1000	8.95	-42.99	≤ -11.05	PASS



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			1000~26500	8.95	-24.37	≤ -11.05	PASS
		2440	Reference	7.73	7.73	---	PASS
			30~1000	7.73	-43.93	≤ -12.27	PASS
			1000~26500	7.73	-24.32	≤ -12.27	PASS
		2480	Reference	8.63	8.63	---	PASS
			30~1000	8.63	-43.62	≤ -11.37	PASS
			1000~26500	8.63	-24.26	≤ -11.37	PASS



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BLE_125K_Ant1_2402_0~Reference



BLE_125K_Ant1_2402_30~1000



BLE_125K_Ant1_2402_1000~26500



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BLE_125K_Ant1_2440_0~Reference

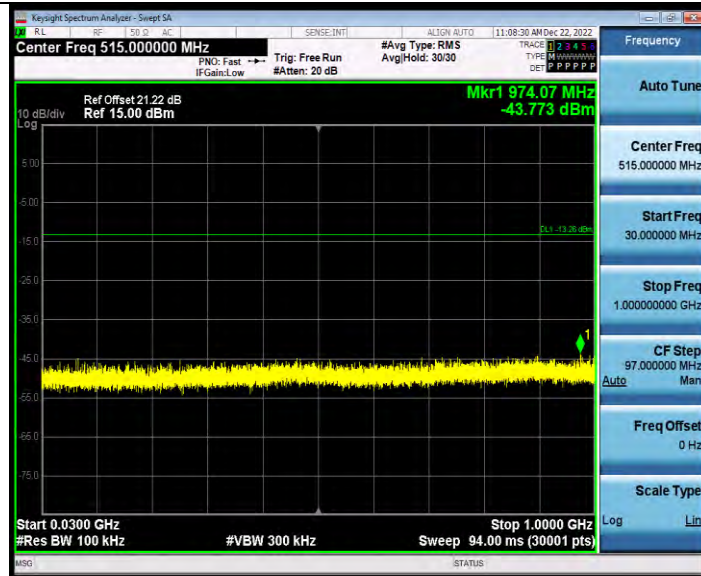


BLE_125K_Ant1_2440_30~1000



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BLE_125K_Ant1_2440_1000~26500



BLE_125K_Ant1_2480_0~Reference



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BLE_125K_Ant1_2480_30~1000



BLE_125K_Ant1_2480_1000~26500



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BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



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BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference



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Test Report No.: W7L-P22110036RF02



BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



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Test Report No.: W7L-P22110036RF02



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



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Test Report No.: W7L-P22110036RF02



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-P22110036RF02



BLE_2M_Ant1_2440_0~Reference



BLE_2M_Ant1_2440_30~1000



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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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BLE_500K_Ant1_2402_0~Reference



BLE_500K_Ant1_2402_30~1000



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BLE_500K_Ant1_2402_1000~26500



BLE_500K_Ant1_2440_0~Reference



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Test Report No.: W7L-P22110036RF02



BLE_500K_Ant1_2440_30~1000



BLE_500K_Ant1_2440_1000~26500



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Test Report No.: W7L-P22110036RF02



BLE_500K_Ant1_2480_0~Reference



BLE_500K_Ant1_2480_30~1000