



BUREAU VERITAS

Test Report No.: W7L-P23030005RF02



BLE\_2M\_Ant1\_2480

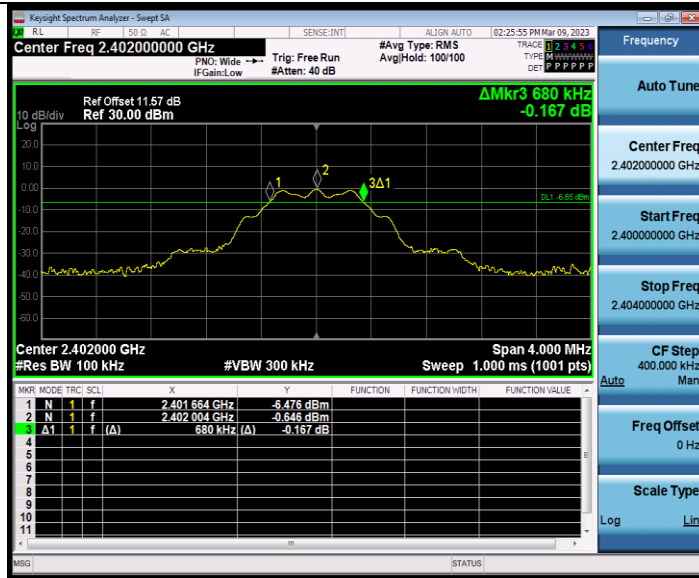


BLE\_125K\_Ant1\_2402

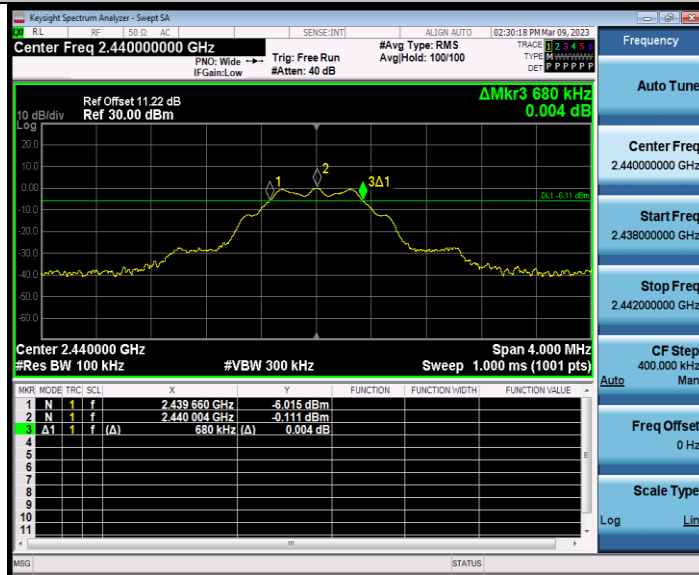


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**Test Report No.: W7L-P23030005RF02**



BLE\_125K\_Ant1\_2440

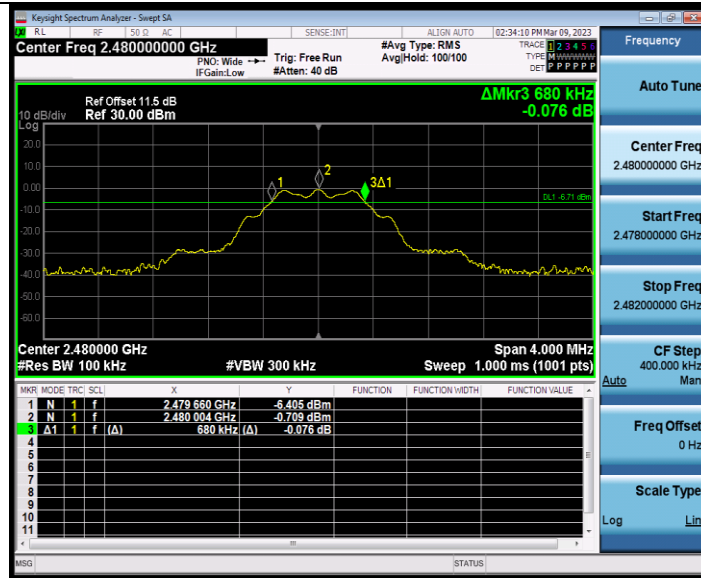


BLE\_125K\_Ant1\_2480

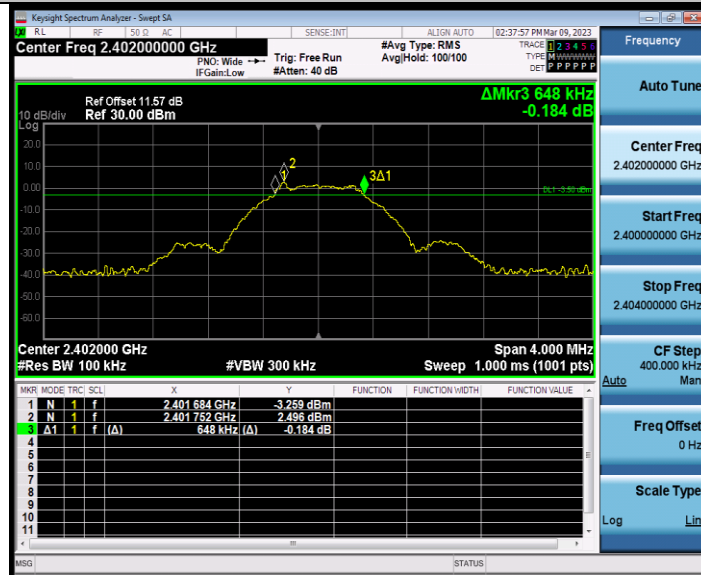


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**Test Report No.: W7L-P23030005RF02**



BLE\_500K\_Ant1\_2402



BLE\_500K\_Ant1\_2440



BUREAU VERITAS

Test Report No.: W7L-P23030005RF02



BLE\_500K\_Ant1\_2480





## OCCUPIED CHANNEL BANDWIDTH TEST RESULT

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0438	2401.4854	2402.5292	---	---
		2440	1.0473	2439.4815	2440.5288	---	---
		2480	1.0331	2479.4875	2480.5206	---	---
BLE_2M	Ant1	2402	2.0834	2400.9752	2403.0586	---	---
		2440	2.0728	2438.9803	2441.0531	---	---
		2480	2.0699	2478.9747	2481.0446	---	---
BLE_125K	Ant1	2402	1.0588	2401.4715	2402.5303	---	---
		2440	1.0563	2439.4718	2440.5281	---	---
		2480	1.0611	2479.4678	2480.5289	---	---
BLE_500K	Ant1	2402	1.0364	2401.4819	2402.5183	---	---
		2440	1.0345	2439.4812	2440.5157	---	---
		2480	1.0291	2479.4835	2480.5126	---	---



### TEST GRAPHS





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**Test Report No.: W7L-P23030005RF02**



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BLE\_2M\_Ant1\_2440



**BUREAU  
VERITAS**

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BLE\_2M\_Ant1\_2480



BLE\_125K\_Ant1\_2402





**BUREAU  
VERITAS**

**Test Report No.: W7L-P23030005RF02**



BLE\_125K\_Ant1\_2440



BLE\_125K\_Ant1\_2480



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VERITAS**

### Test Report No.: W7L-P23030005RF02



BLE\_500K\_Ant1\_2402



BLE\_500K\_Ant1\_2440



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VERITAS**

### Test Report No.: W7L-P23030005RF02



### BLE\_500K\_Ant1\_2480





### MAXIMUM CONDUCTED OUTPUT POWER TEST RESULT

TestMode	Antenna	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	Ant1	2402	1.22	1.74	1.49	≤30	-1.96	0.64	≤36	PASS	Default
		2440	2.54	2.97	1.98	≤30	-0.73	0.85	≤36	PASS	Default
		2480	1.83	2.05	1.60	≤30	-1.65	0.68	≤36	PASS	Default
BLE_2M	Ant1	2402	1.77	1.82	1.52	≤30	-1.88	0.65	≤36	PASS	Default
		2440	2.6	2.92	1.96	≤30	-0.78	0.84	≤36	PASS	Default
		2480	1.73	2.04	1.60	≤30	-1.66	0.68	≤36	PASS	Default
BLE_125k	Ant1	2402	1.1	1.63	1.46	≤30	-2.07	0.62	≤36	PASS	Default
		2440	2.39	2.96	1.98	≤30	-0.74	0.84	≤36	PASS	Default
		2480	1.47	2.01	1.59	≤30	-1.69	0.68	≤36	PASS	Default
BLE_500K	Ant1	2402	1.12	1.72	1.49	≤30	-1.98	0.63	≤36	PASS	Default
		2440	2.25	<b>2.99</b>	<b>1.99</b>	≤30	-0.71	0.85	≤36	PASS	Default
		2480	1.55	2.06	1.61	≤30	-1.64	0.69	≤36	PASS	Default

Note:EIRP=Peak Power+Gain

### SPOT CHECK

TestMode	Antenna	Channel	Average power [dBm]	Peak power [dBm]	Peak power [mw]	Conducted Limit [dBm]	EIRP [dBm]	EIRP [mw]	EIRP Limit [dBm]	Verdict	Power Setting
BLE_500K	Ant1	2402	0.89	1.42	1.39	≤30	-2.28	0.59	≤36	PASS	Default
		2440	2.01	<b>2.59</b>	1.82	≤30	-1.11	0.77	≤36	PASS	Default
		2480	1.23	1.86	1.53	≤30	-1.84	0.65	≤36	PASS	Default



## MAXIMUM POWER SPECTRAL DENSITY TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.36	≤8.00	PASS
		2440	-12.88	≤8.00	PASS
		2480	-13.39	≤8.00	PASS
BLE_2M	Ant1	2402	-15.9	≤8.00	PASS
		2440	-15.37	≤8.00	PASS
		2480	-15.87	≤8.00	PASS
BLE_125K	Ant1	2402	-3.56	≤8.00	PASS
		2440	-3.03	≤8.00	PASS
		2480	-3.48	≤8.00	PASS
BLE_500K	Ant1	2402	-3.65	≤8.00	PASS
		2440	-3.1	≤8.00	PASS
		2480	-3.63	≤8.00	PASS

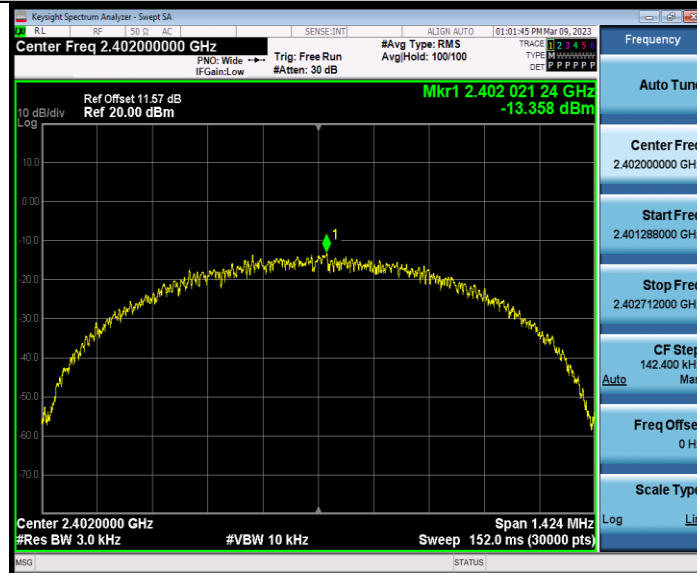


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Test Report No.: W7L-P23030005RF02

## TEST GRAPHS

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440

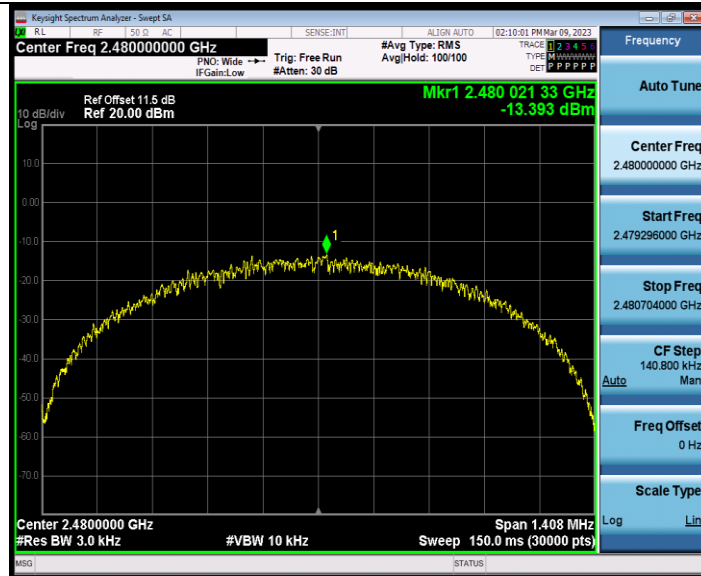


BLE\_1M\_Ant1\_2480



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### Test Report No.: W7L-P23030005RF02



BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440



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**Test Report No.: W7L-P23030005RF02**



BLE\_2M\_Ant1\_2480



BLE\_125K\_Ant1\_2402





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BLE\_125K\_Ant1\_2440



BLE\_125K\_Ant1\_2480

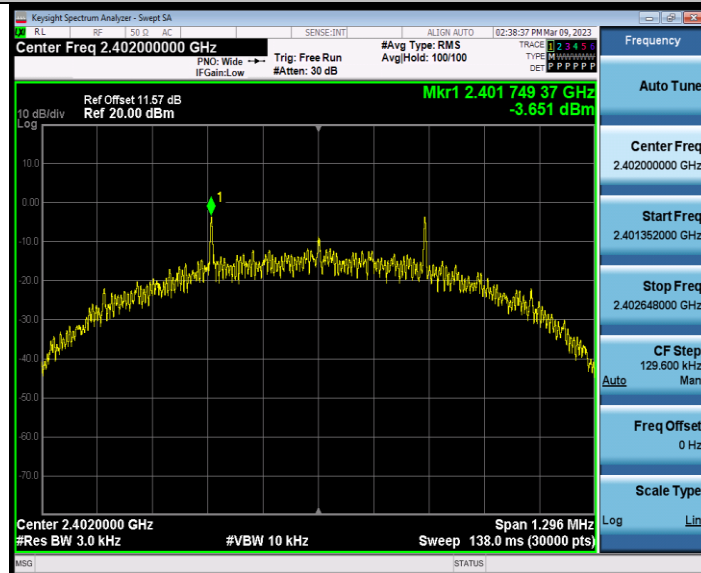


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**Test Report No.: W7L-P23030005RF02**



BLE\_500K\_Ant1\_2402

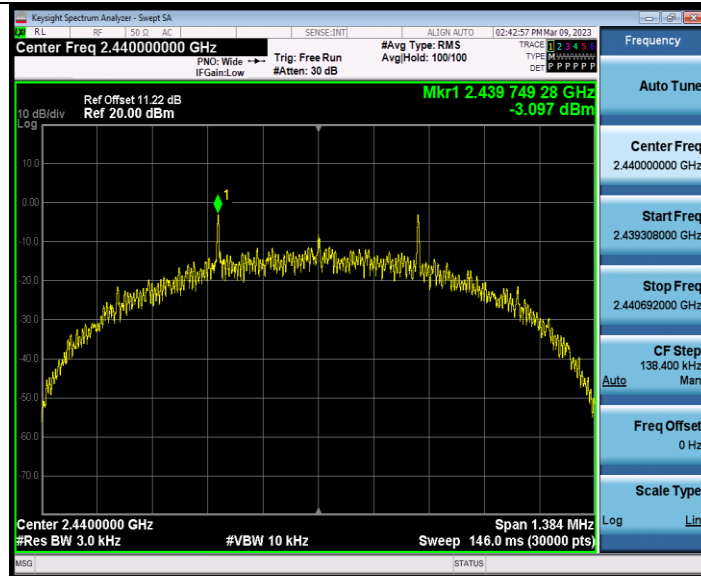


BLE\_500K\_Ant1\_2440

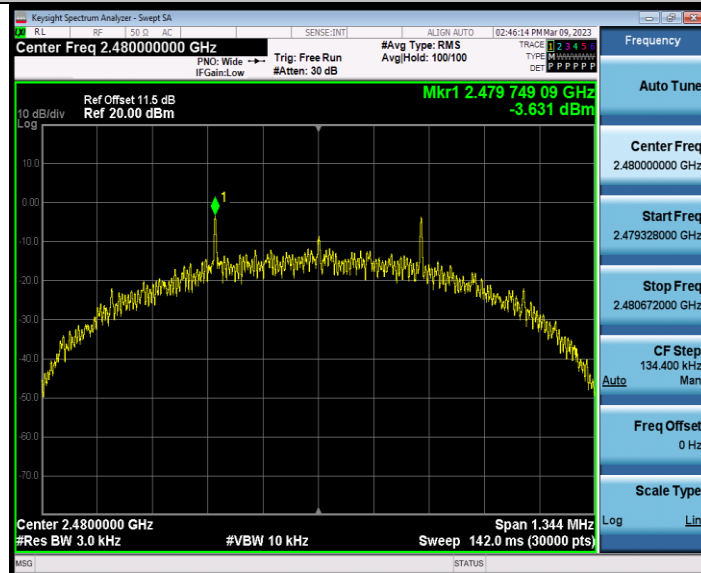


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**Test Report No.: W7L-P23030005RF02**



BLE\_500K\_Ant1\_2480





## **BAND EDGE MEASUREMENTS**

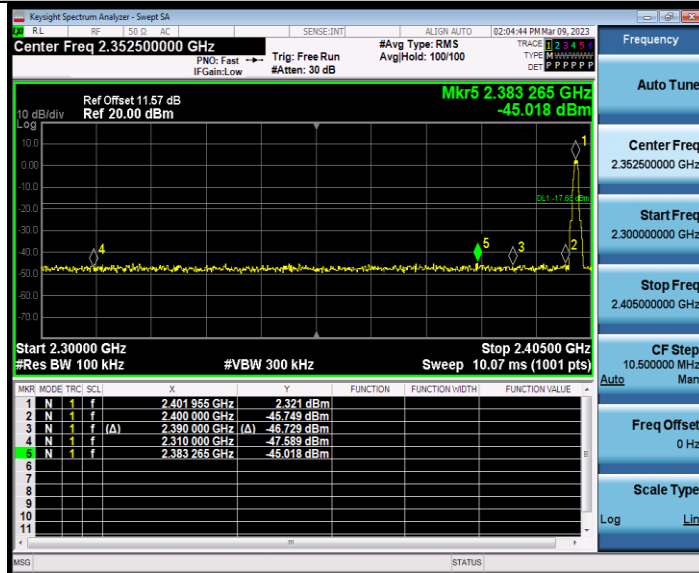
### **TEST RESULT**

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.32	-45.02	≤-17.68	PASS
		High	2480	2.55	-44.32	≤-17.45	PASS
BLE_2M	Ant1	Low	2402	0.15	-28.72	≤-19.85	PASS
		High	2480	0.18	-44.07	≤-19.82	PASS
BLE_125K	Ant1	Low	2402	-0.68	-43.85	≤-20.68	PASS
		High	2480	-0.65	-43.93	≤-20.65	PASS
BLE_500K	Ant1	Low	2402	2.26	-44.57	≤-17.74	PASS
		High	2480	2.17	-44.17	≤-17.83	PASS

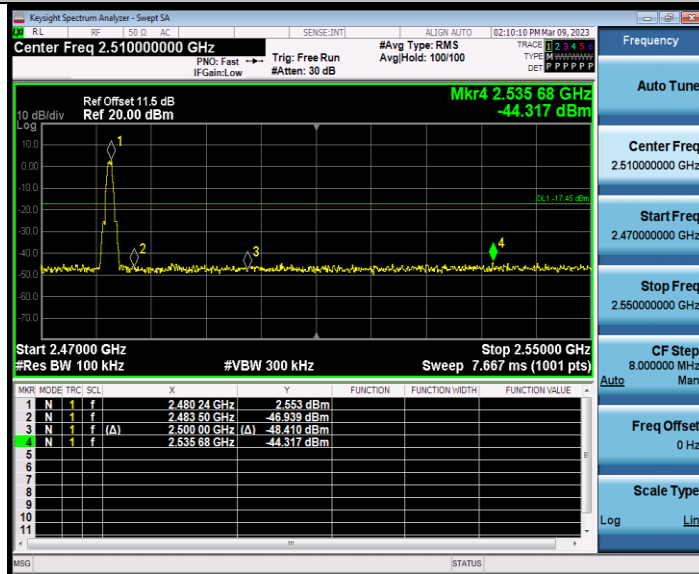


### TEST GRAPHS

BLE\_1M\_Ant1\_Low\_2402



BLE\_1M\_Ant1\_High\_2480

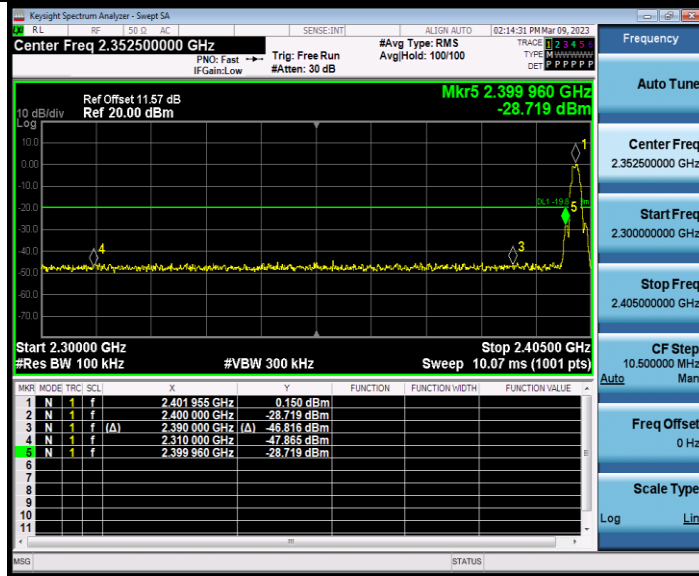


BLE\_2M\_Ant1\_Low\_2402

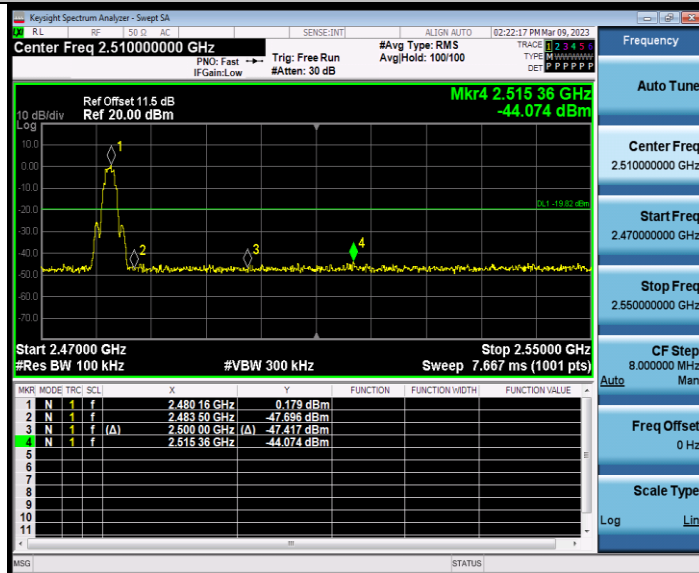


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# Test Report No.: W7L-P23030005RF02



BLE\_2M\_Ant1\_High\_2480

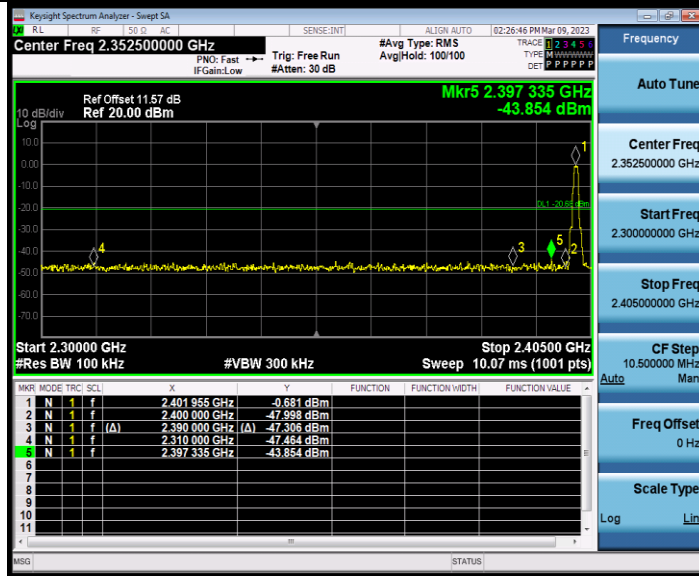


BLE\_125K\_Ant1\_Low\_2402

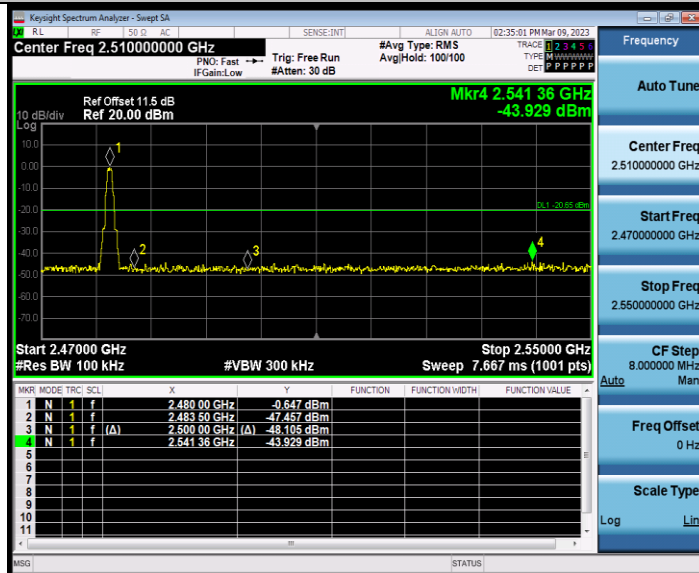


BUREAU VERITAS

Test Report No.: W7L-P23030005RF02



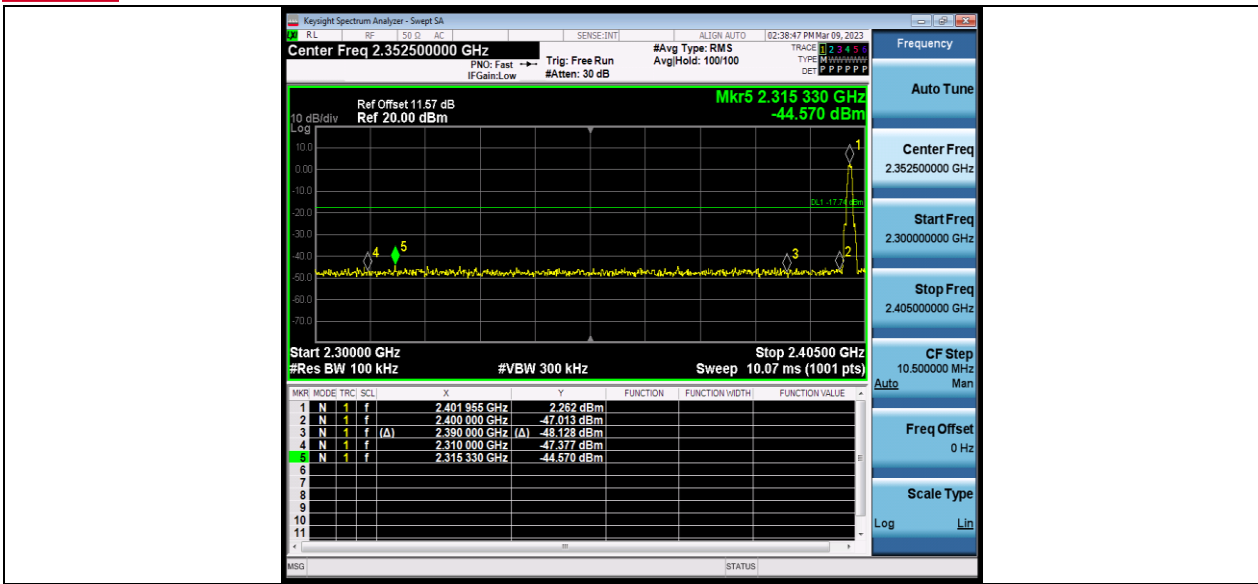
BLE\_125K\_Ant1\_High\_2480



BLE\_500K\_Ant1\_Low\_2402



**BUREAU VERITAS** Test Report No.: W7L-P23030005RF02



BLE\_500K\_Ant1\_High\_2480

