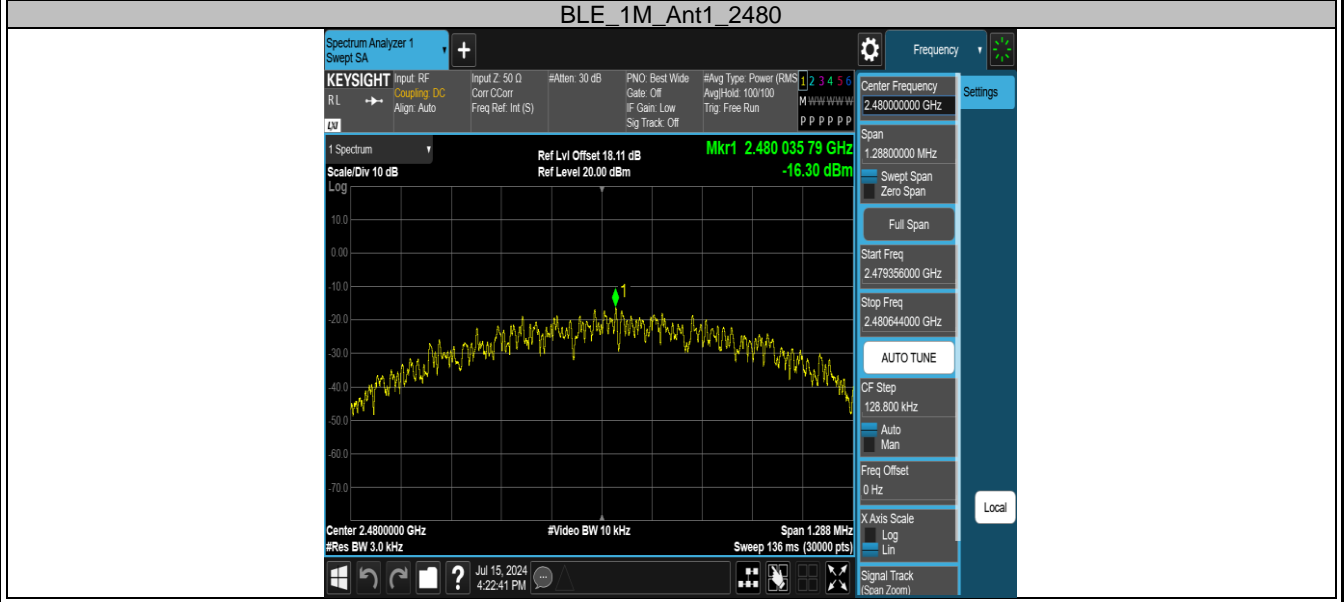
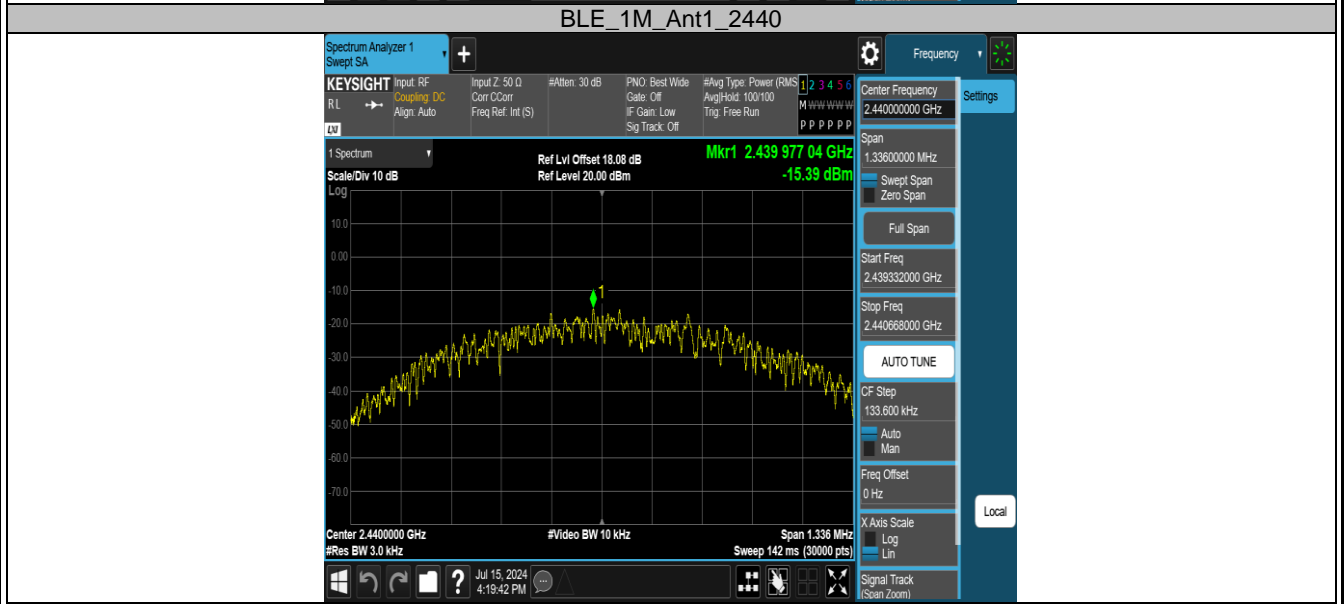
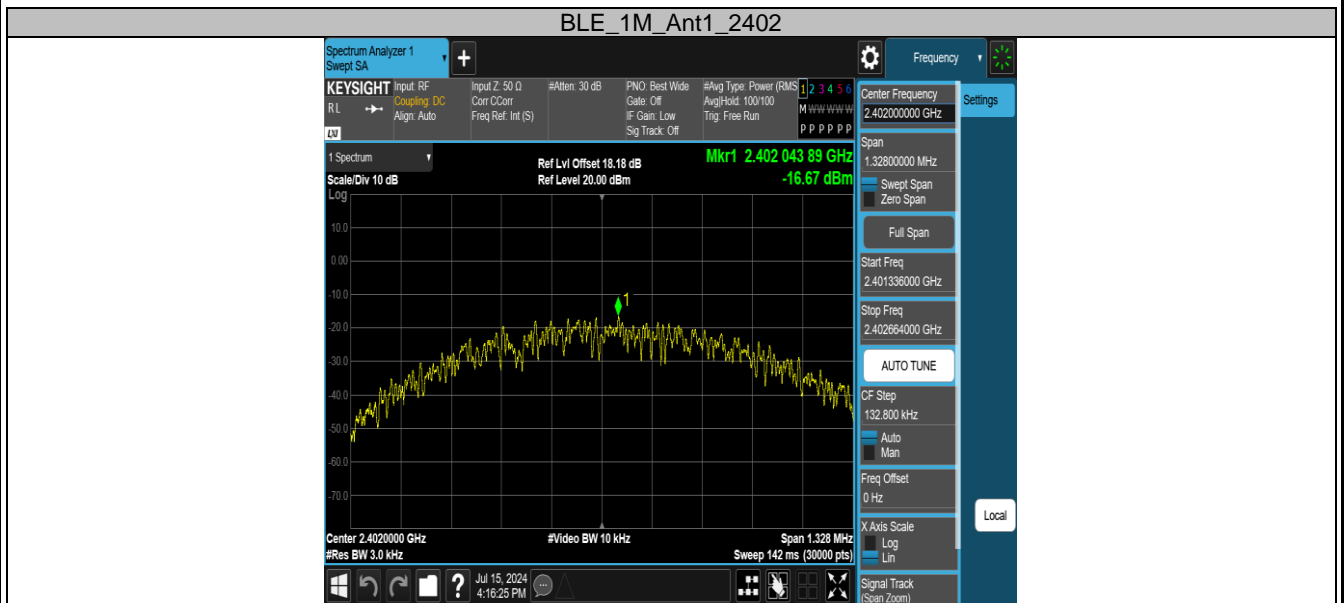


## Appendix A: Test Results of Bluetooth Low Energy

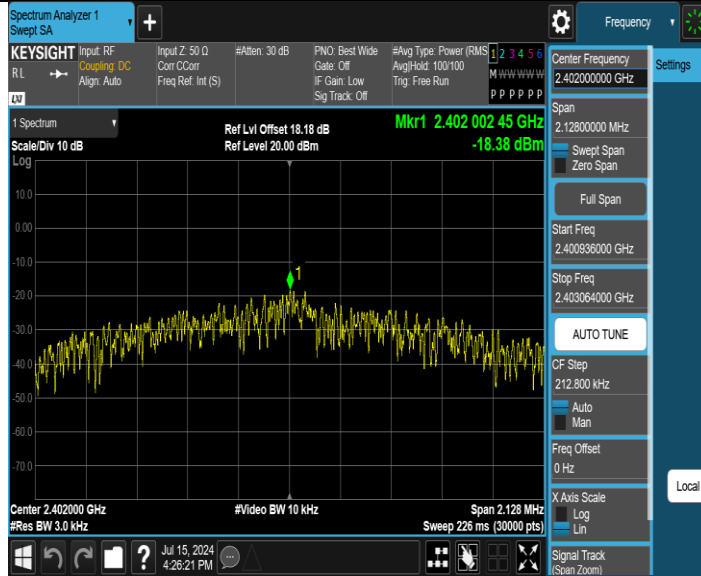
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### Appendix A.1: Test Results of Conducted Power Spectral Density

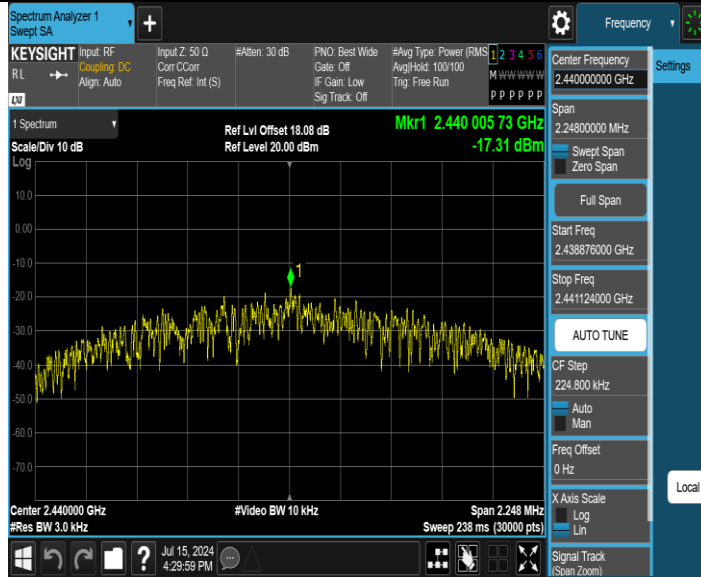
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.67	≤8.00	PASS
		2440	-15.40	≤8.00	PASS
		2480	-16.30	≤8.00	PASS
BLE_2M	Ant1	2402	-18.38	≤8.00	PASS
		2440	-17.31	≤8.00	PASS
		2480	-19.07	≤8.00	PASS
BLE_125K	Ant1	2402	-7.38	≤8.00	PASS
		2440	-7.02	≤8.00	PASS
		2480	-8.02	≤8.00	PASS
BLE_500K	Ant1	2402	-7.49	≤8.00	PASS
		2440	-7.13	≤8.00	PASS
		2480	-8.13	≤8.00	PASS



BLE\_2M\_Ant1\_2402



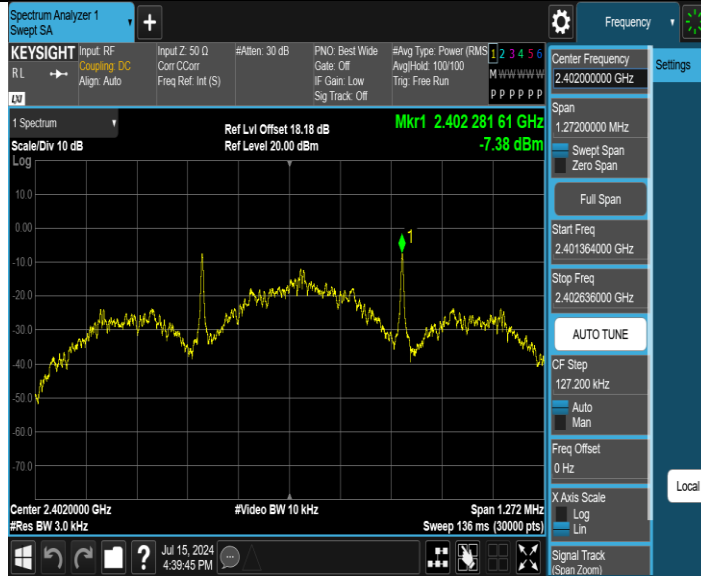
BLE\_2M\_Ant1\_2440



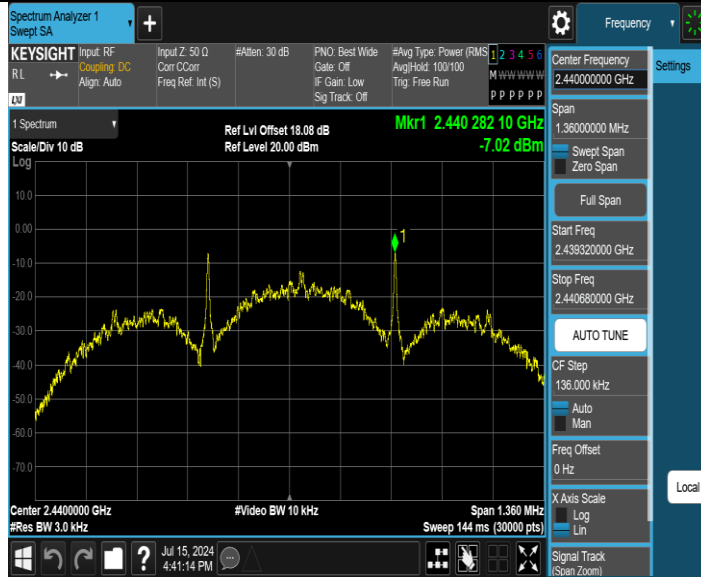
BLE\_2M\_Ant1\_2480



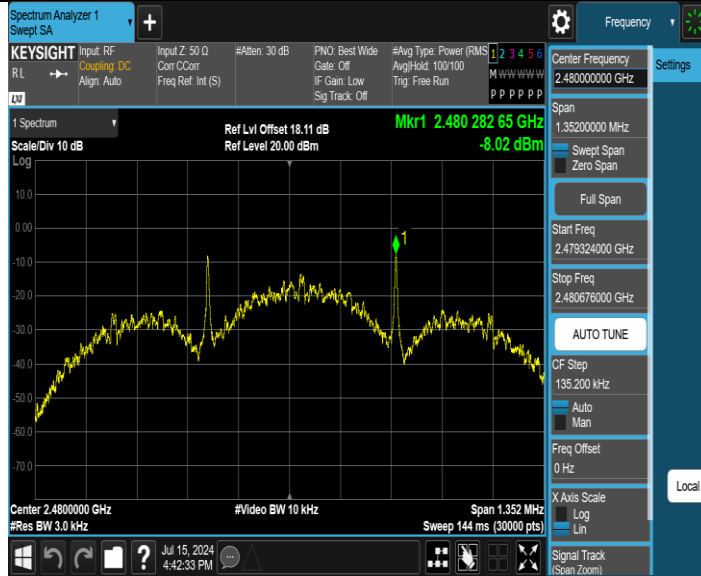
BLE\_125K\_Ant1\_2402



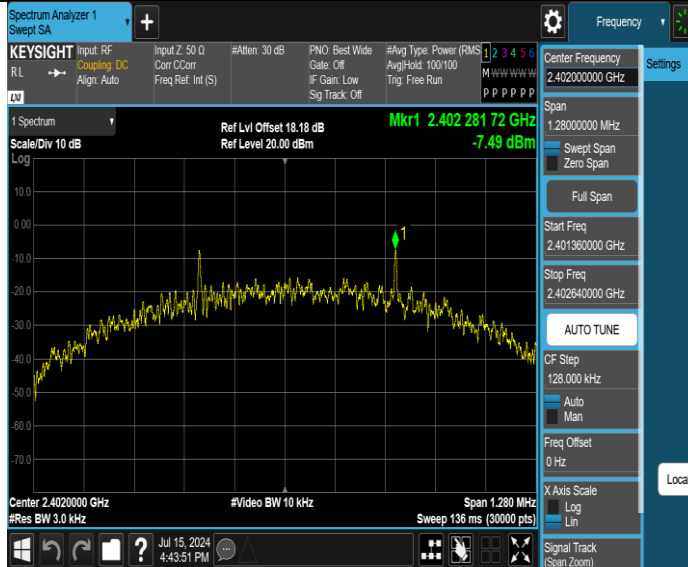
BLE\_125K\_Ant1\_2440



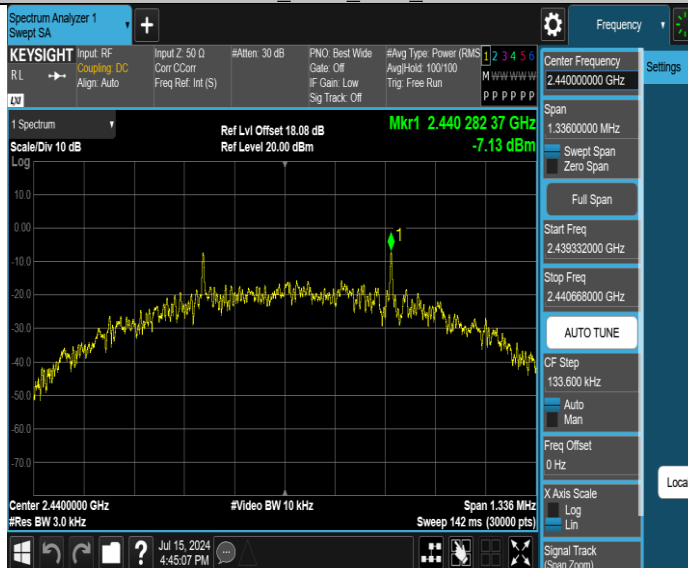
BLE\_125K\_Ant1\_2480



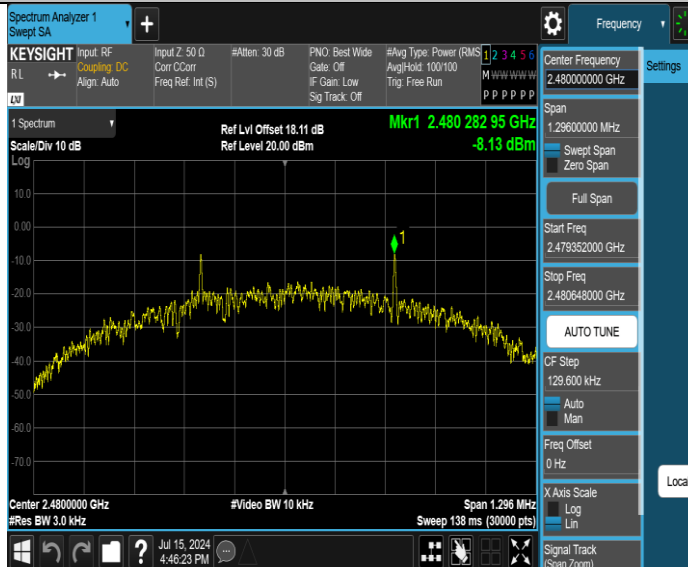
BLE\_500K\_Ant1\_2402



BLE\_500K\_Ant1\_2440

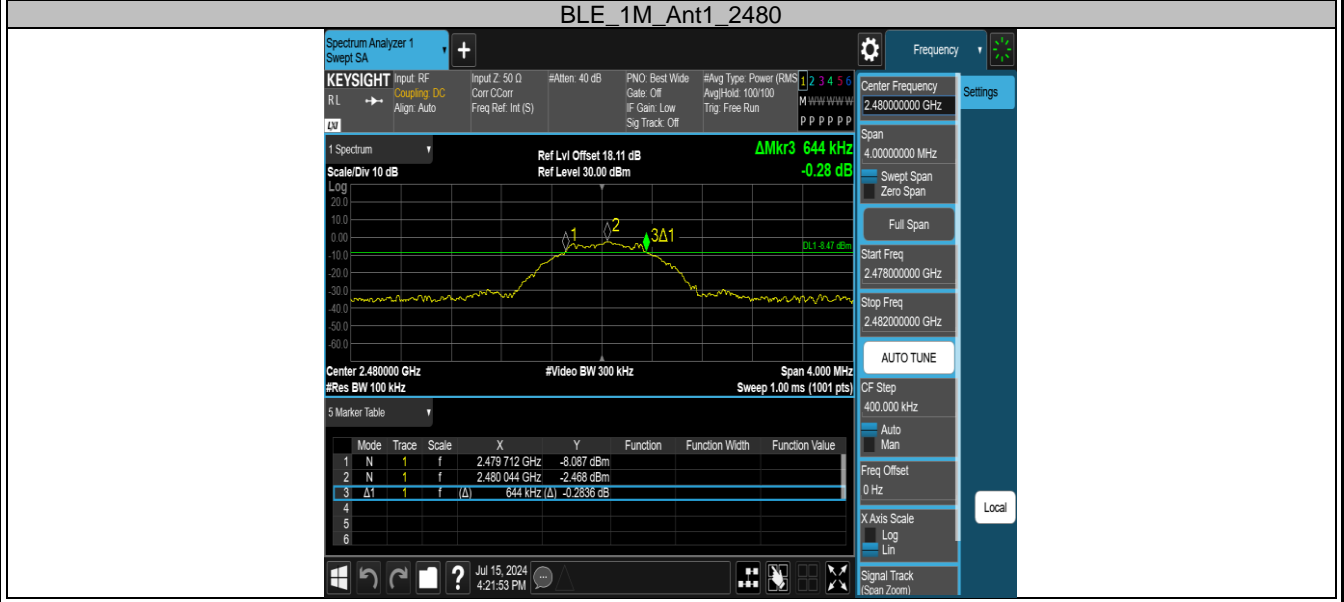


BLE\_500K\_Ant1\_2480



**Appendix A.2: Test Results of 6dB Bandwidth**

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.708	2402.372	0.5	PASS
		2440	0.668	2439.700	2440.368	0.5	PASS
		2480	0.644	2479.712	2480.356	0.5	PASS
BLE_2M	Ant1	2402	1.064	2401.500	2402.564	0.5	PASS
		2440	1.124	2439.484	2440.608	0.5	PASS
		2480	0.880	2479.484	2480.364	0.5	PASS
BLE_125K	Ant1	2402	0.636	2401.716	2402.352	0.5	PASS
		2440	0.680	2439.692	2440.372	0.5	PASS
		2480	0.676	2479.696	2480.372	0.5	PASS
BLE_500K	Ant1	2402	0.640	2401.716	2402.356	0.5	PASS
		2440	0.668	2439.720	2440.388	0.5	PASS
		2480	0.648	2479.712	2480.360	0.5	PASS

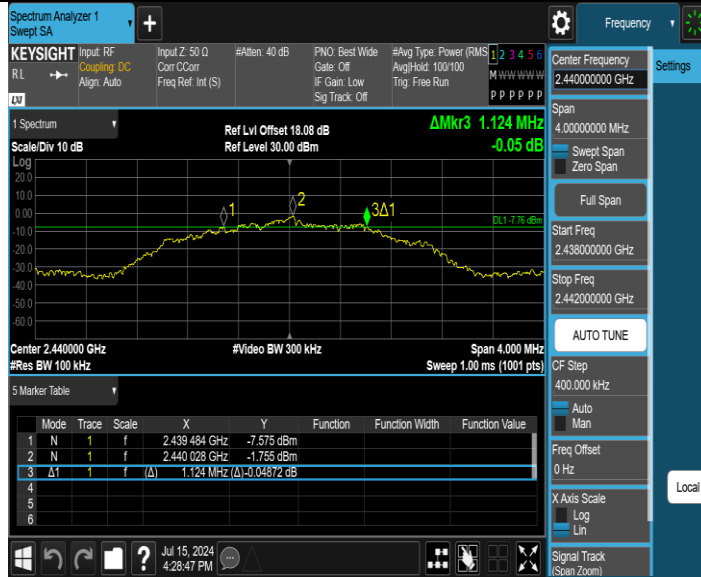




BLE\_2M\_Ant1\_2402



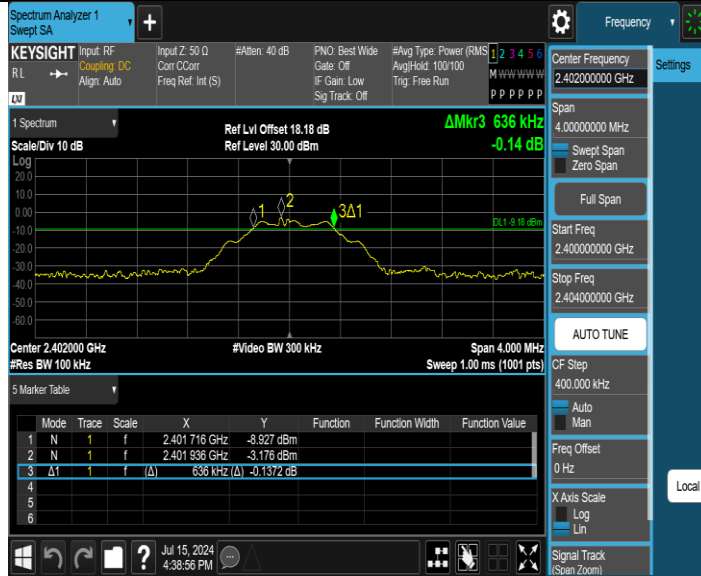
BLE\_2M\_Ant1\_2440



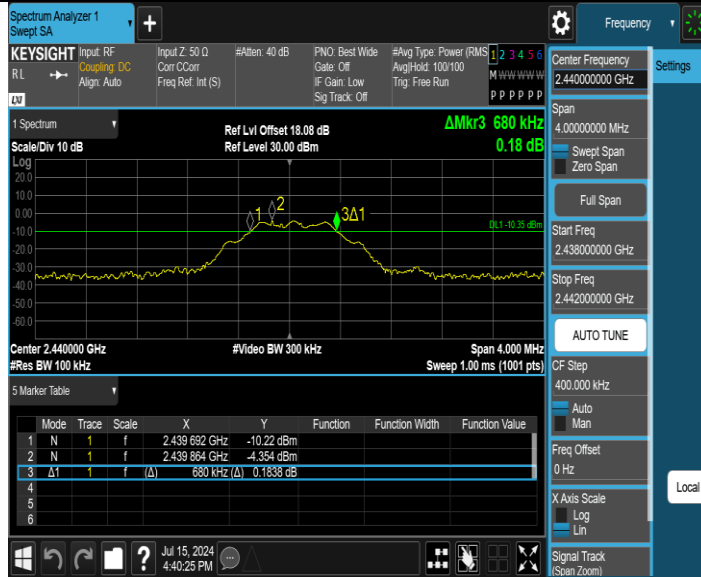
BLE\_2M\_Ant1\_2480



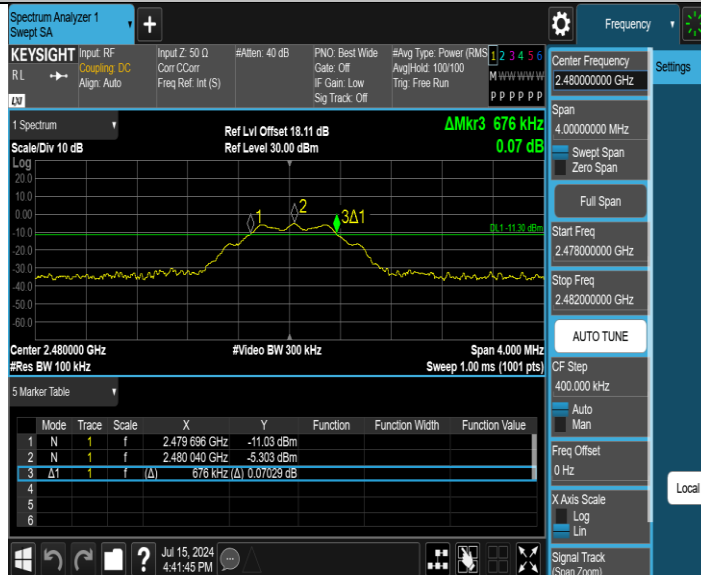
BLE\_125K\_Ant1\_2402



BLE\_125K\_Ant1\_2440



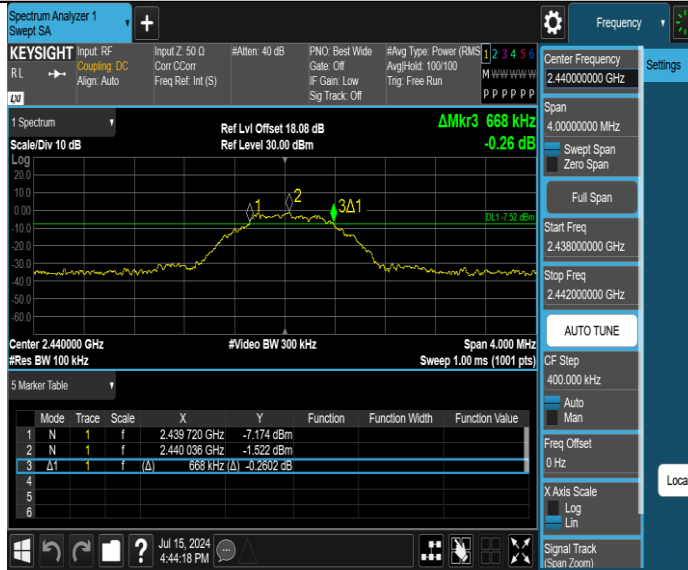
BLE\_125K\_Ant1\_2480



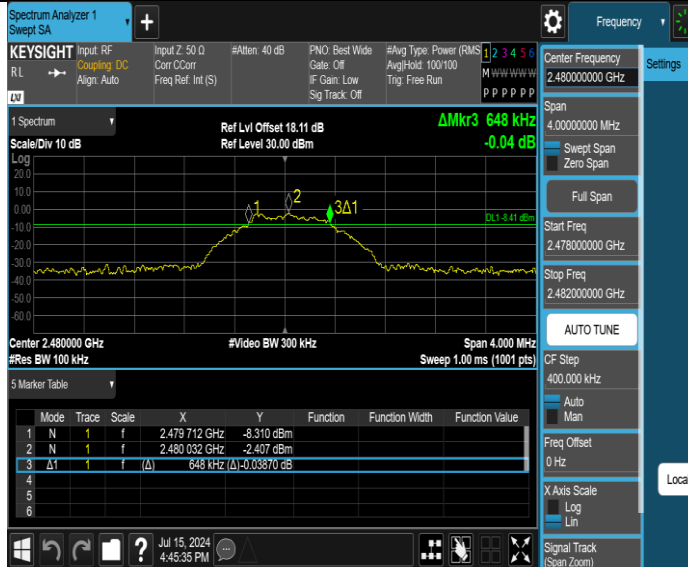
BLE\_500K\_Ant1\_2402



BLE\_500K\_Ant1\_2440

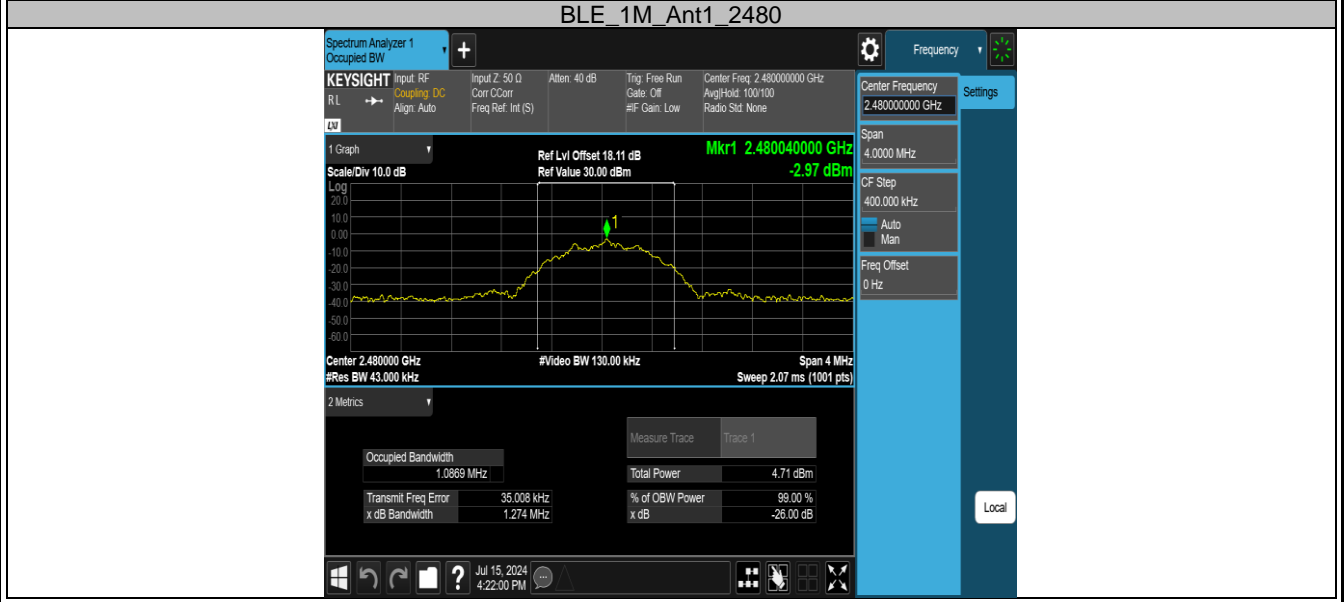


BLE\_500K\_Ant1\_2480

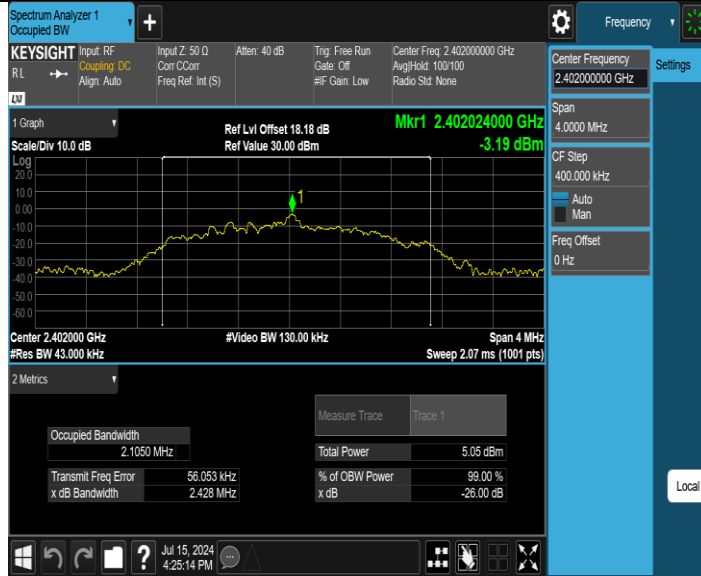


**Appendix A.3: Test Results of 99% Bandwidth**

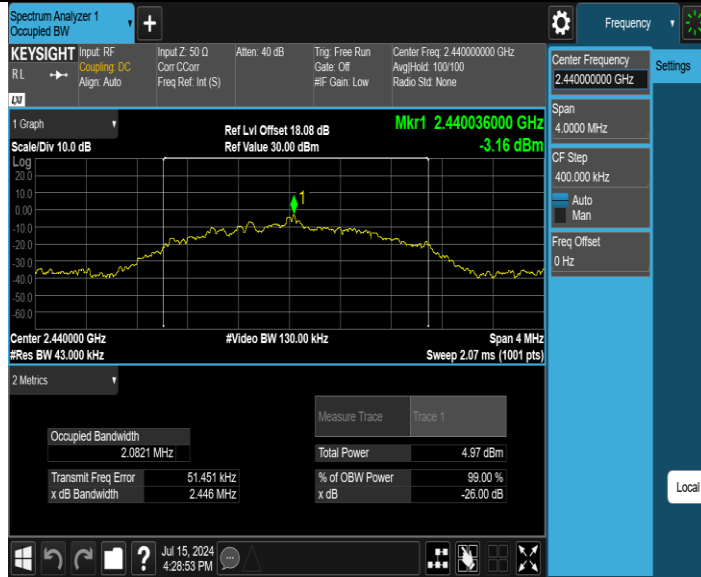
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0707	2401.5028	2402.5735	---	PASS
		2440	1.0698	2439.5059	2440.5757	---	PASS
		2480	1.0869	2479.4916	2480.5785	---	PASS
BLE_2M	Ant1	2402	2.1050	2401.0036	2403.1086	---	PASS
		2440	2.0821	2439.0104	2441.0925	---	PASS
		2480	2.1108	2478.9912	2481.1020	---	PASS
BLE_125K	Ant1	2402	1.1131	2401.4721	2402.5852	---	PASS
		2440	1.1181	2439.4690	2440.5871	---	PASS
		2480	1.1533	2479.4502	2480.6035	---	PASS
BLE_500K	Ant1	2402	1.0751	2401.4896	2402.5647	---	PASS
		2440	1.0761	2439.4871	2440.5632	---	PASS
		2480	1.0963	2479.4893	2480.5856	---	PASS



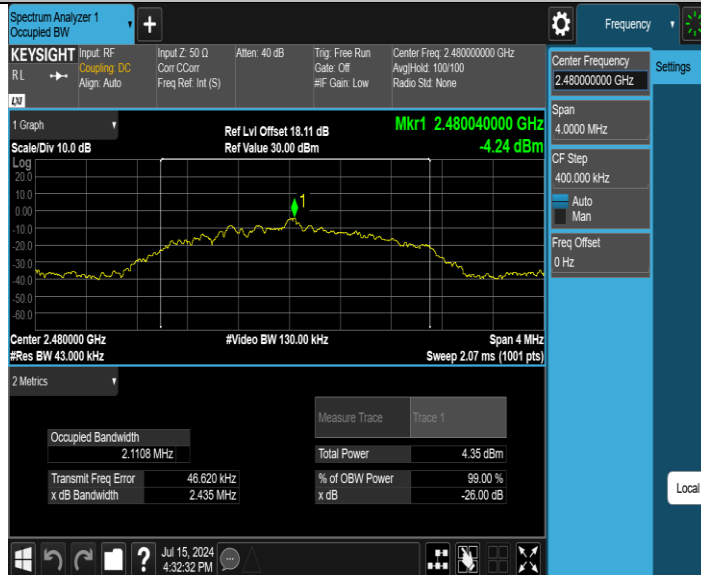
BLE\_2M\_Ant1\_2402



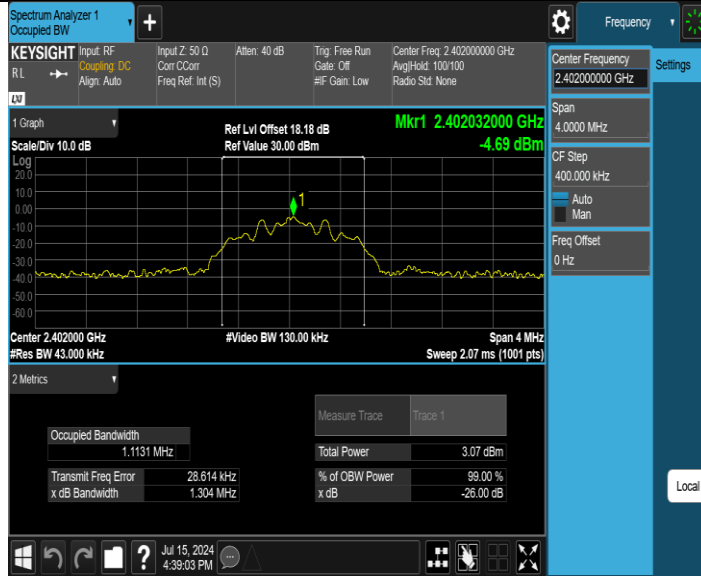
BLE\_2M\_Ant1\_2440



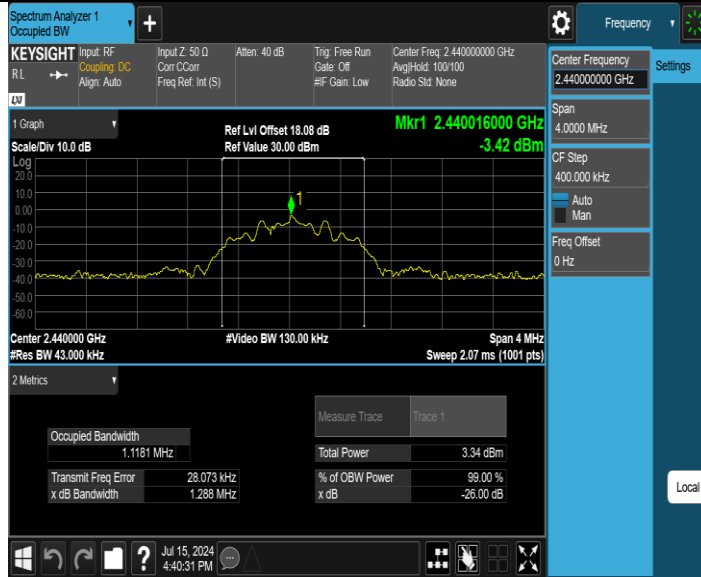
BLE\_2M\_Ant1\_2480



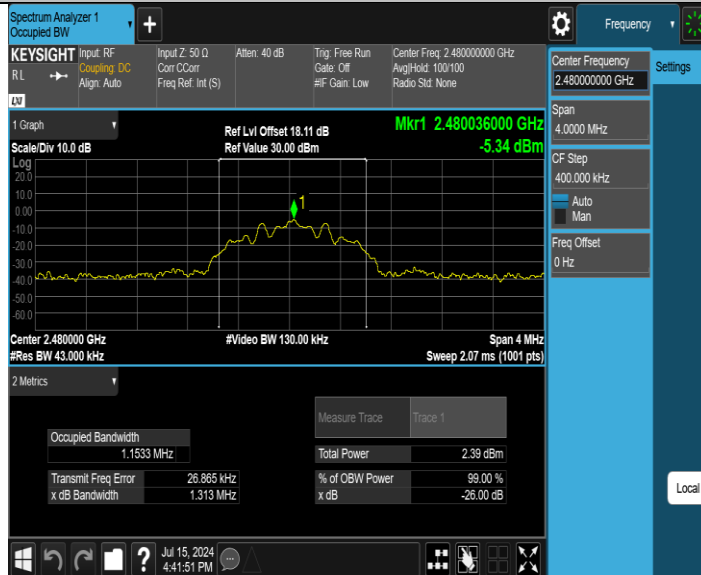
BLE\_125K\_Ant1\_2402



BLE\_125K\_Ant1\_2440



BLE\_125K\_Ant1\_2480



BLE\_500K\_Ant1\_2402



BLE\_500K\_Ant1\_2440



BLE\_500K\_Ant1\_2480





### Appendix A.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Band Edge

Test performed under 125kbps, 500kbps, 1Mbps and 2Mbps, only the worst-case reported.

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.55	-45.15	≤-21.55	PASS
		High	2480	-2.80	-44.32	≤-22.80	PASS
BLE_2M	Ant1	Low	2402	-1.39	-35.43	≤-21.39	PASS
		High	2480	-3.36	-44.51	≤-23.36	PASS

BLE\_1M\_Ant1\_Low\_2402



BLE\_1M\_Ant1\_High\_2480



BLE\_2M\_Ant1\_Low\_2402



BLE\_2M\_Ant1\_High\_2480



Conducted Spurious Emission

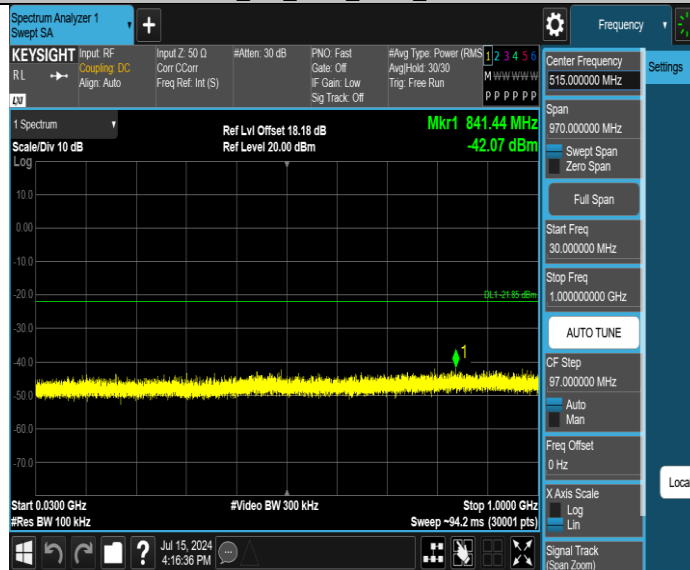
Test performed under 125kbps, 500kbps, 1Mbps and 2Mbps, only the worst-case reported.

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.85	-1.85	---	PASS
			30~1000	-1.85	-42.07	≤-21.85	PASS
			1000~26500	-1.85	-32.28	≤-21.85	PASS
		2440	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-41.6	≤-21.43	PASS
			1000~26500	-1.43	-33.23	≤-21.43	PASS
		2480	Reference	-2.44	-2.44	---	PASS
			30~1000	-2.44	-41.05	≤-22.44	PASS
			1000~26500	-2.44	-32.38	≤-22.44	PASS
BLE_2M	Ant1	2402	Reference	-1.76	-1.76	---	PASS
			30~1000	-1.76	-41.67	≤-21.76	PASS
			1000~26500	-1.76	-32.64	≤-21.76	PASS
		2440	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-40.94	≤-21.48	PASS
			1000~26500	-1.48	-32.27	≤-21.48	PASS
		2480	Reference	-2.58	-2.58	---	PASS
			30~1000	-2.58	-41.55	≤-22.58	PASS
			1000~26500	-2.58	-32.54	≤-22.58	PASS

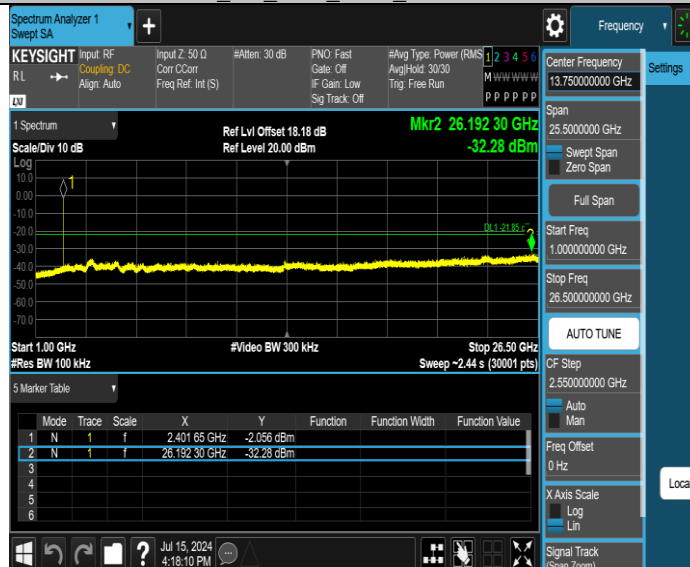
BLE\_1M\_Ant1\_2402\_0-Reference

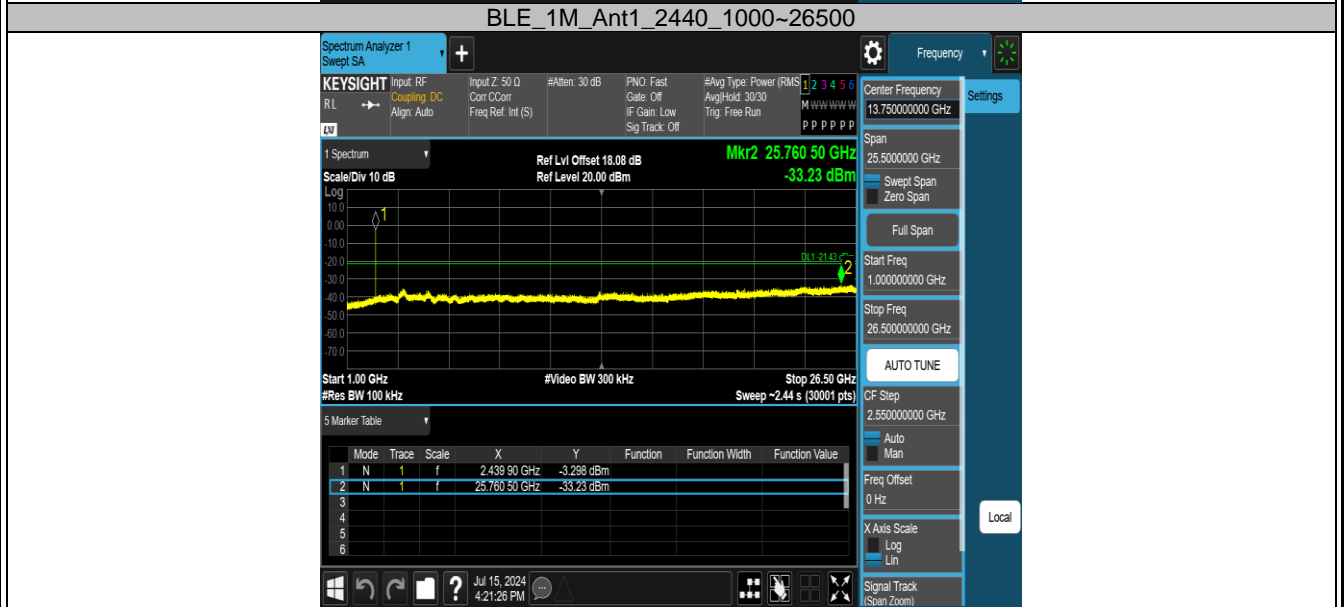
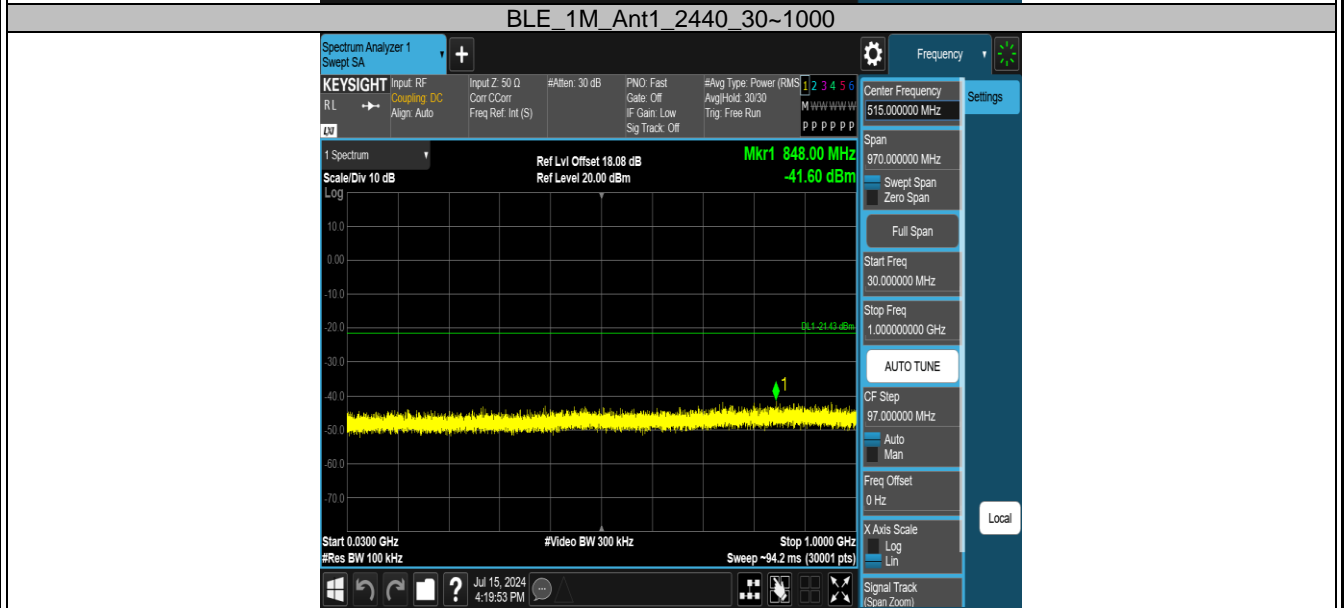


BLE\_1M\_Ant1\_2402\_30-1000



BLE\_1M\_Ant1\_2402\_1000-26500





BLE\_1M\_Ant1\_2480\_0~Reference



BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

