

Appendix C: Test Results of Bluetooth LE

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Appendix C.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.53	≤8.00	PASS
		2440	-8.46	≤8.00	PASS
		2480	-8.55	≤8.00	PASS
BLE_2M	Ant1	2402	-11.3	≤8.00	PASS
		2440	-11.14	≤8.00	PASS
		2480	-11.2	≤8.00	PASS

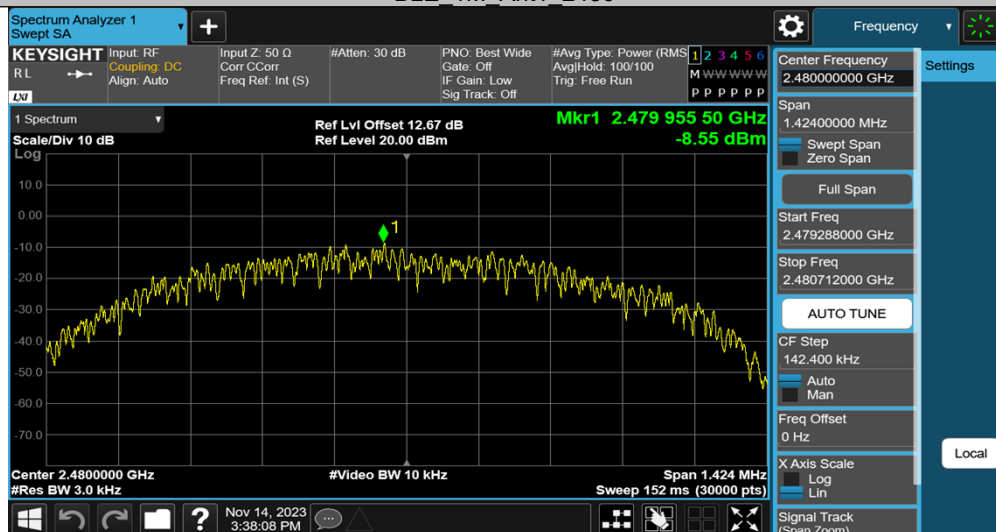
BLE 1M Ant1 2402



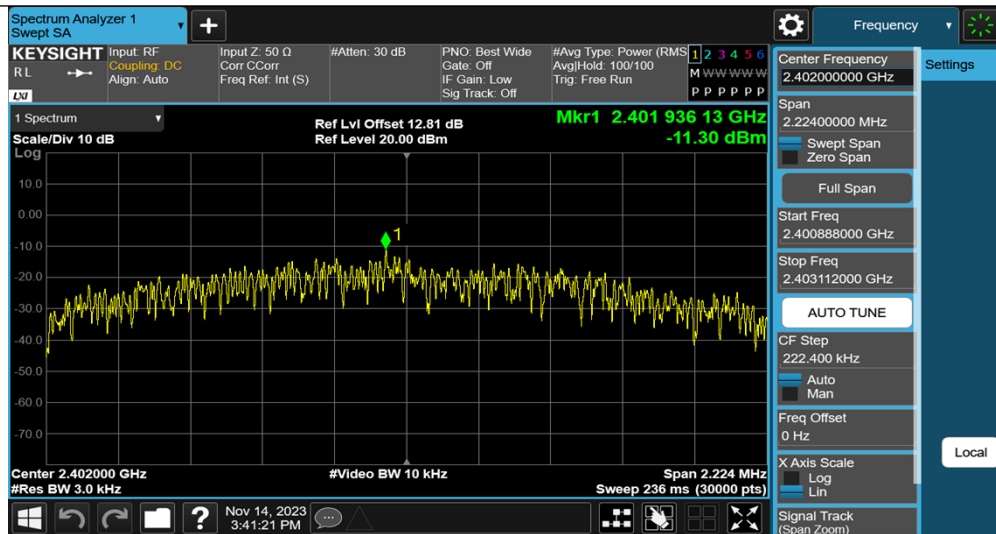
BLE 1M Ant1 2440



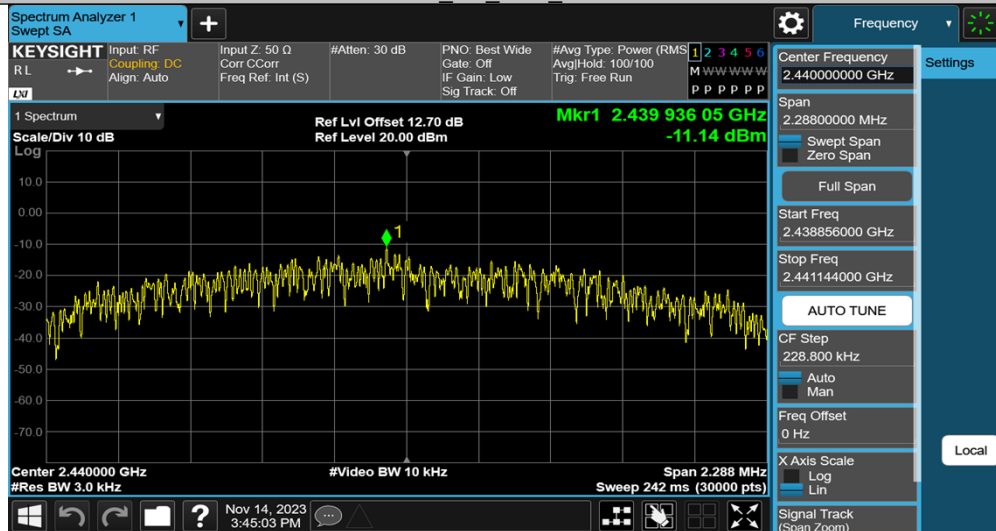
BLE 1M Ant1 2480



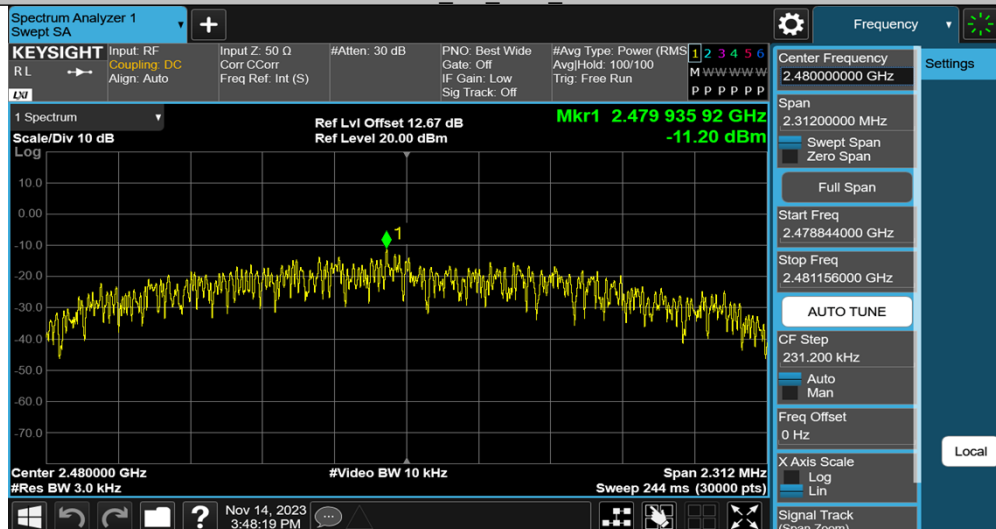
BLE 2M Ant1 2402



BLE 2M Ant1 2440

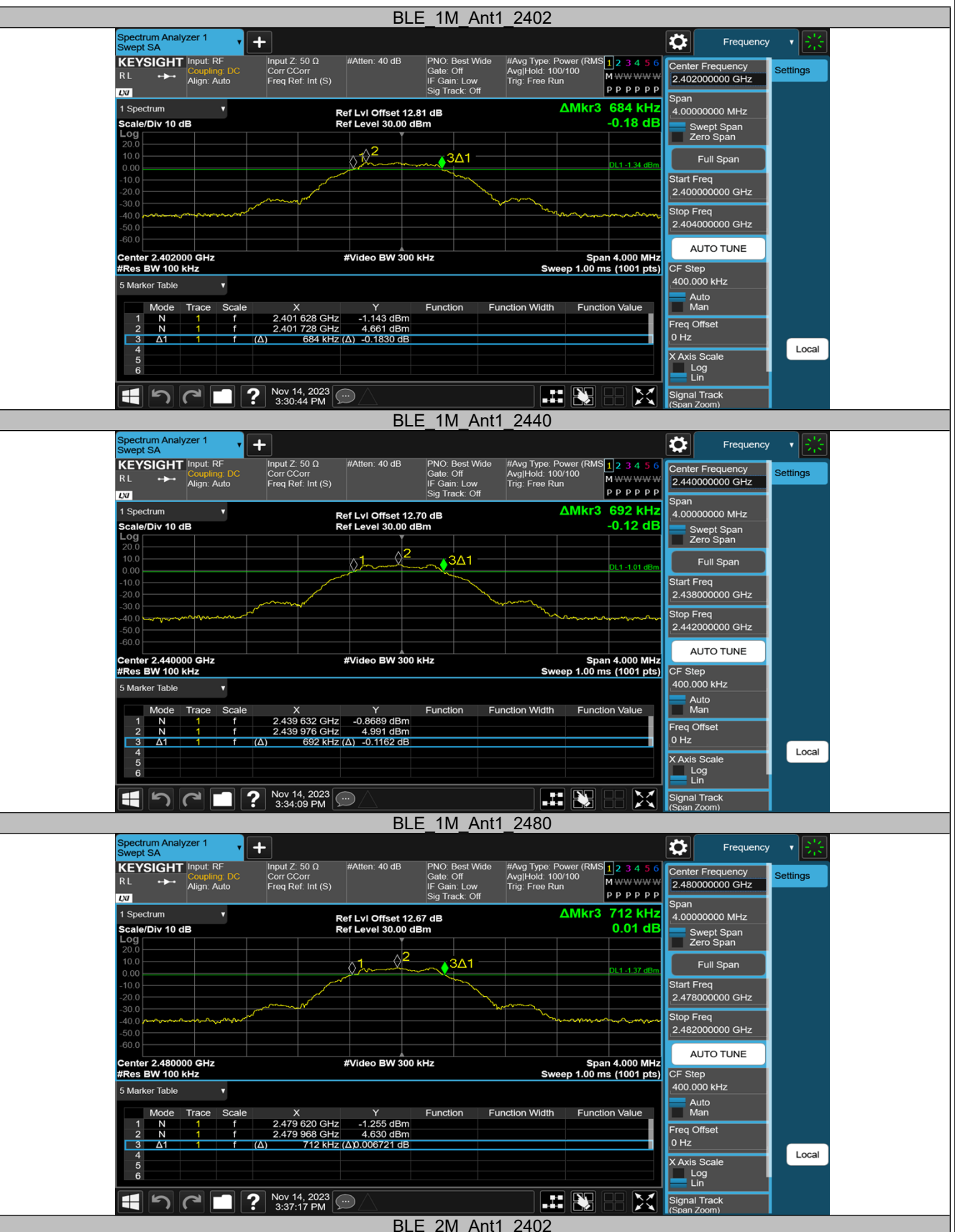


BLE 2M Ant1 2480



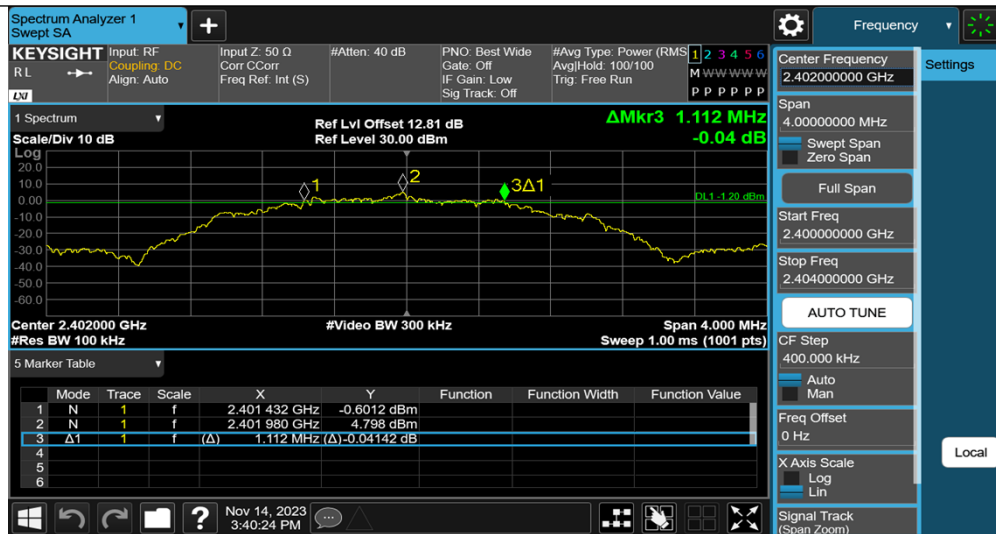
Appendix C.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.684	2401.628	2402.312	0.5	PASS
		2440	0.692	2439.632	2440.324	0.5	PASS
		2480	0.712	2479.620	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.112	2401.432	2402.544	0.5	PASS
		2440	1.144	2439.400	2440.544	0.5	PASS
		2480	1.156	2479.408	2480.564	0.5	PASS



Prüfbericht - Produkte

Test Report - Products



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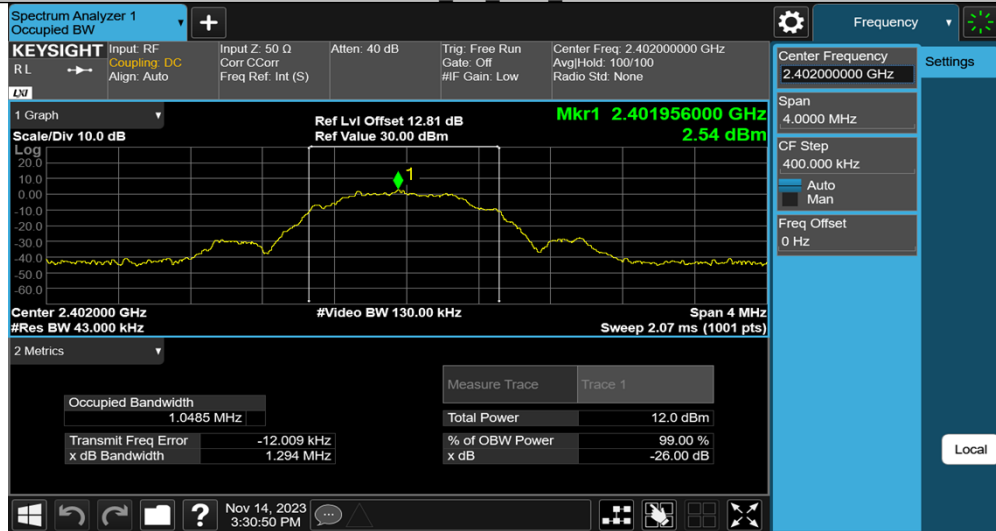
BLE 2M Ant1 2480



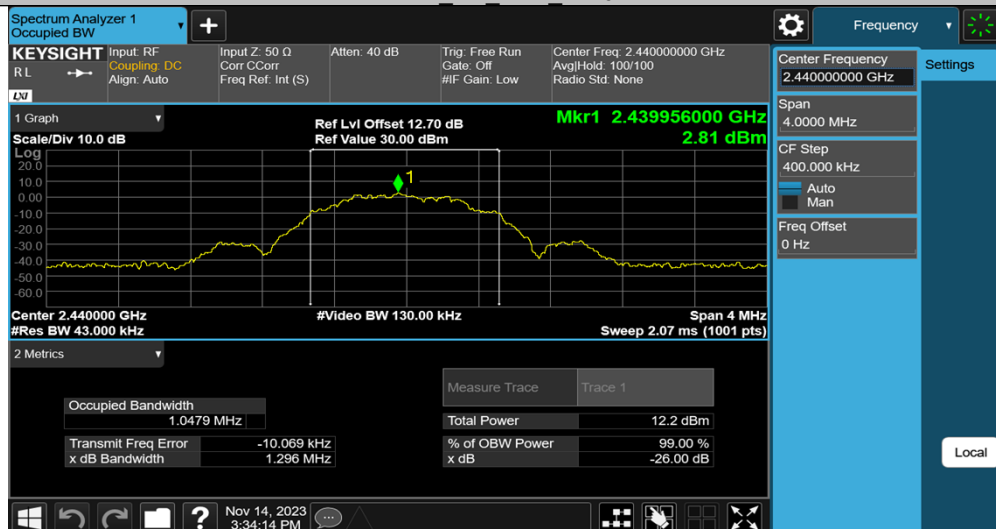
Appendix C.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0485	2401.4637	2402.5122	---	---
		2440	1.0479	2439.4660	2440.5139	---	---
		2480	1.0447	2479.4626	2480.5073	---	---
BLE_2M	Ant1	2402	2.0890	2400.9491	2403.0381	---	---
		2440	2.0794	2438.9594	2441.0388	---	---
		2480	2.0797	2478.9538	2481.0335	---	---

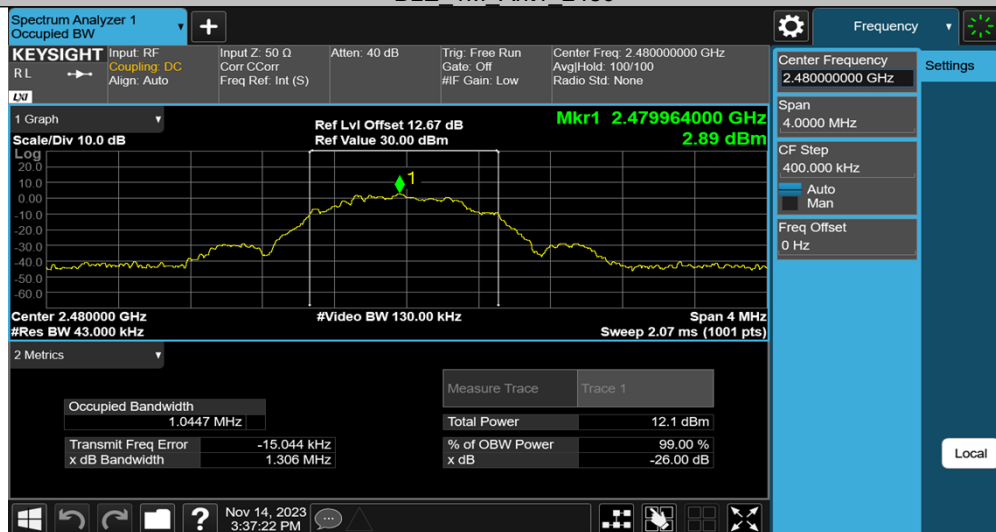
BLE 1M Ant1 2402



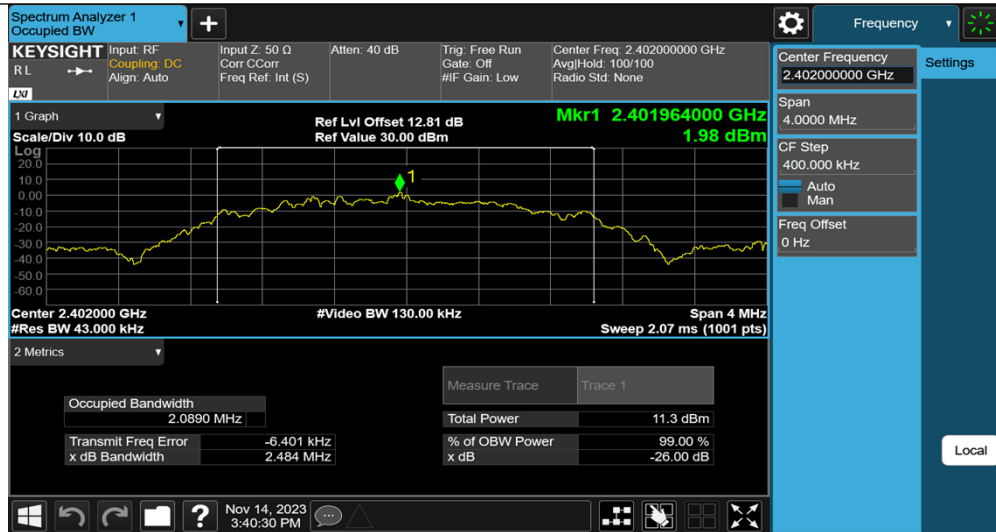
BLE 1M Ant1 2440



BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



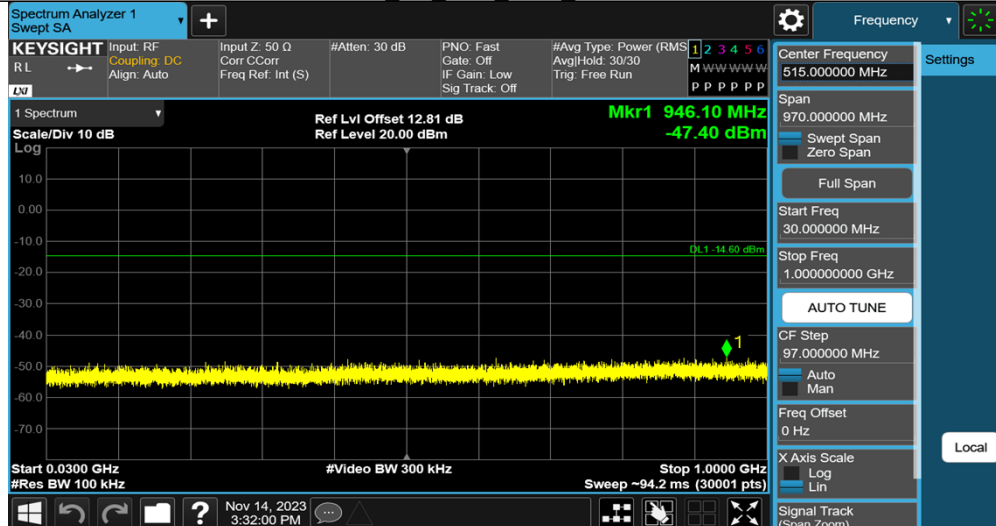
Appendix C.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.40	5.40	---	PASS
			30~1000	5.40	-47.4	≤-14.6	PASS
			1000~26500	5.40	-37.32	≤-14.6	PASS
		2440	Reference	5.62	5.62	---	PASS
			30~1000	5.62	-47.17	≤-14.38	PASS
			1000~26500	5.62	-37.76	≤-14.38	PASS
		2480	Reference	5.29	5.29	---	PASS
			30~1000	5.29	-47	≤-14.71	PASS
			1000~26500	5.29	-37.86	≤-14.71	PASS
BLE_2M	Ant1	2402	Reference	5.04	5.04	---	PASS
			30~1000	5.04	-46.8	≤-14.96	PASS
			1000~26500	5.04	-36.64	≤-14.96	PASS
		2440	Reference	5.53	5.53	---	PASS
			30~1000	5.53	-46.74	≤-14.47	PASS
			1000~26500	5.53	-37.65	≤-14.47	PASS
		2480	Reference	5.71	5.71	---	PASS
			30~1000	5.71	-47.41	≤-14.29	PASS
			1000~26500	5.71	-38.07	≤-14.29	PASS

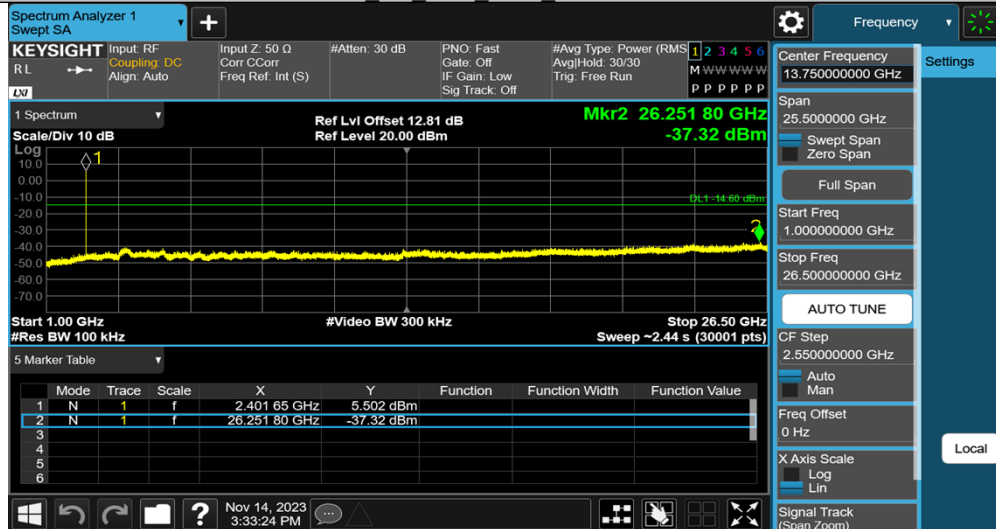
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



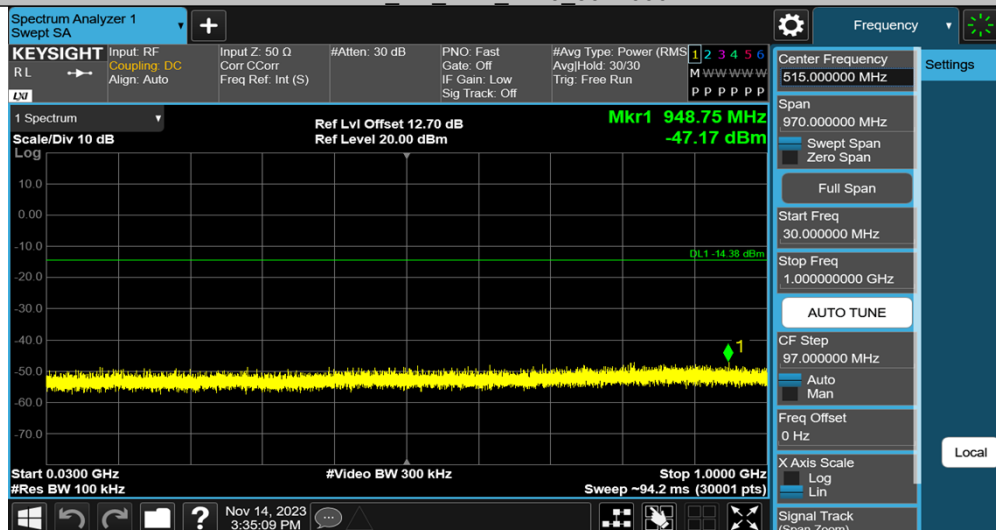
BLE_1M_Ant1_2402_1000~26500



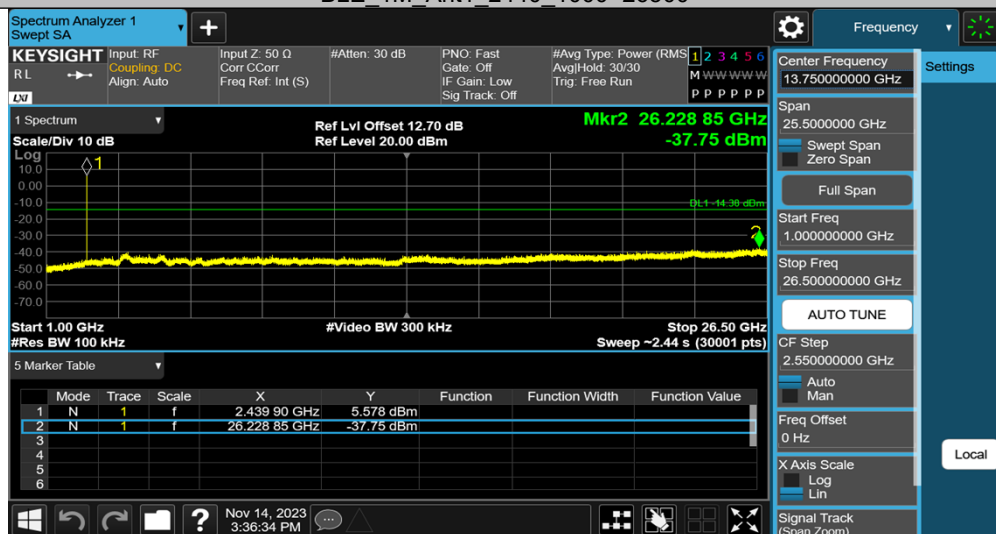
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



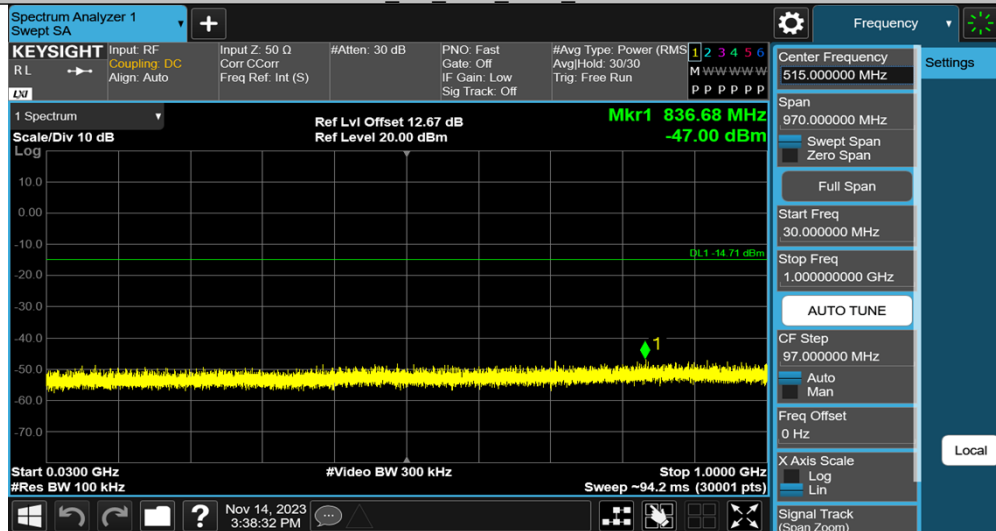
BLE_1M_Ant1_2440_1000~26500



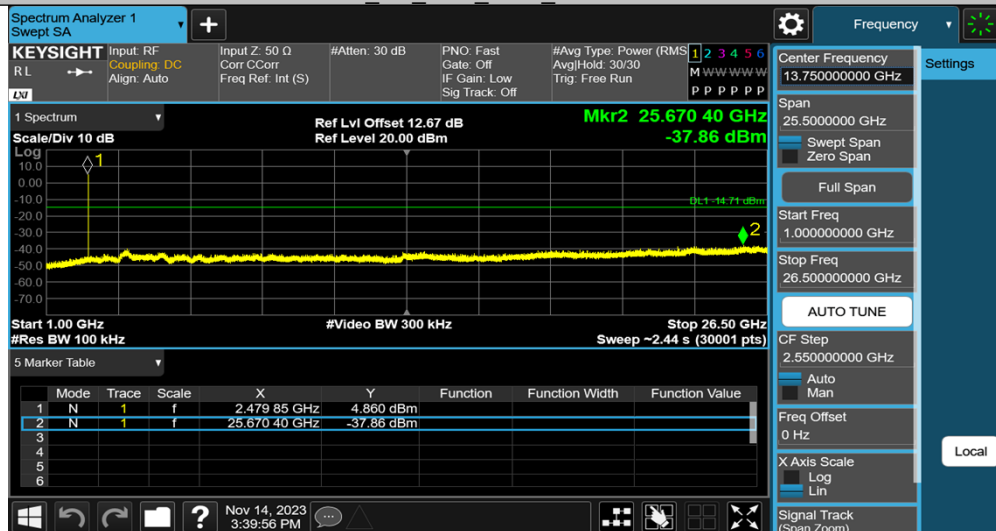
BLE_1M_Ant1_2480_0~Reference



BLE 1M Ant1 2480 30~1000



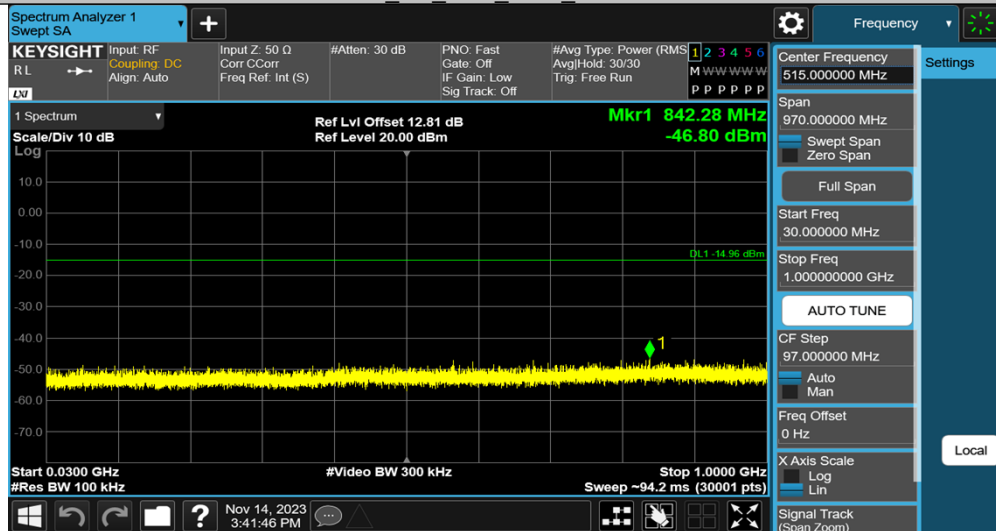
BLE 1M Ant1 2480 1000~26500



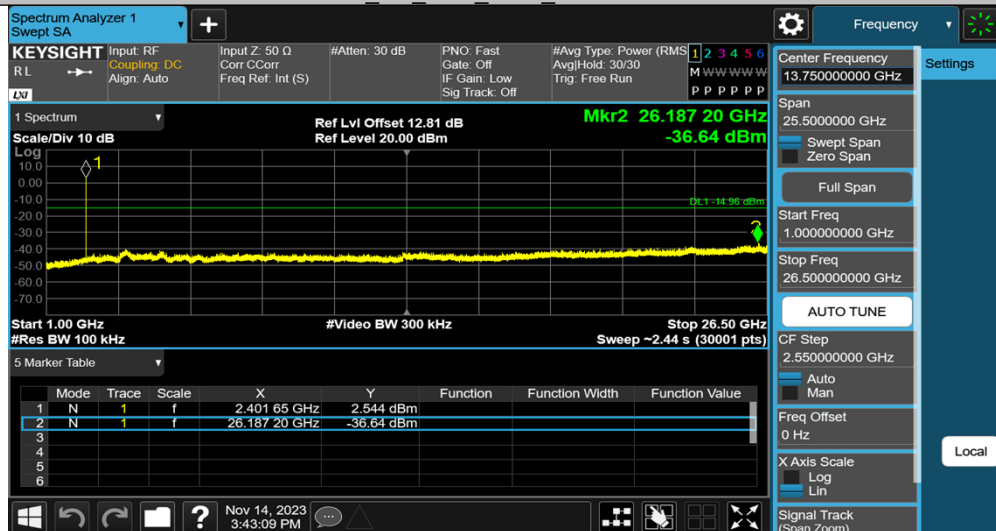
BLE 2M Ant1 2402 0~Reference



BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference