

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



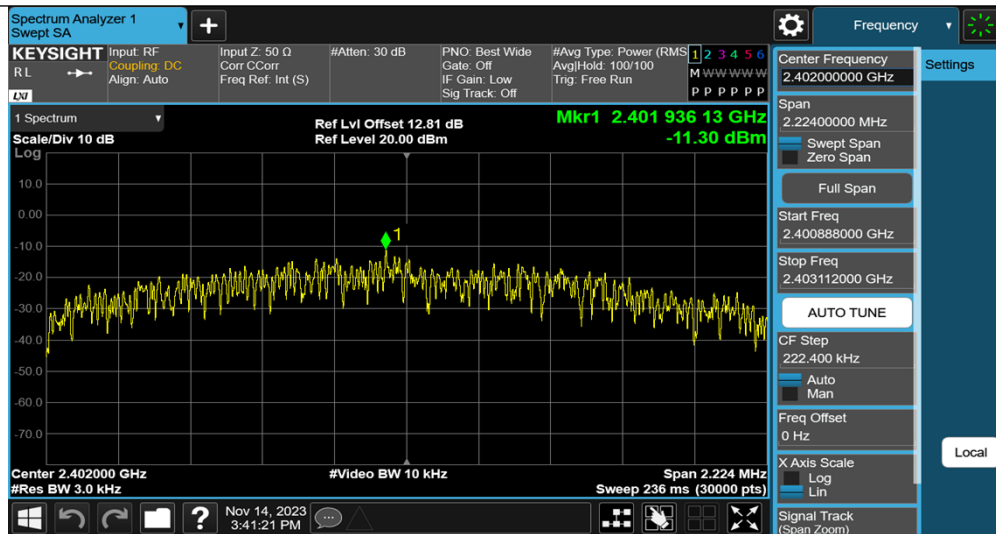
BLE 1M Ant1 2440



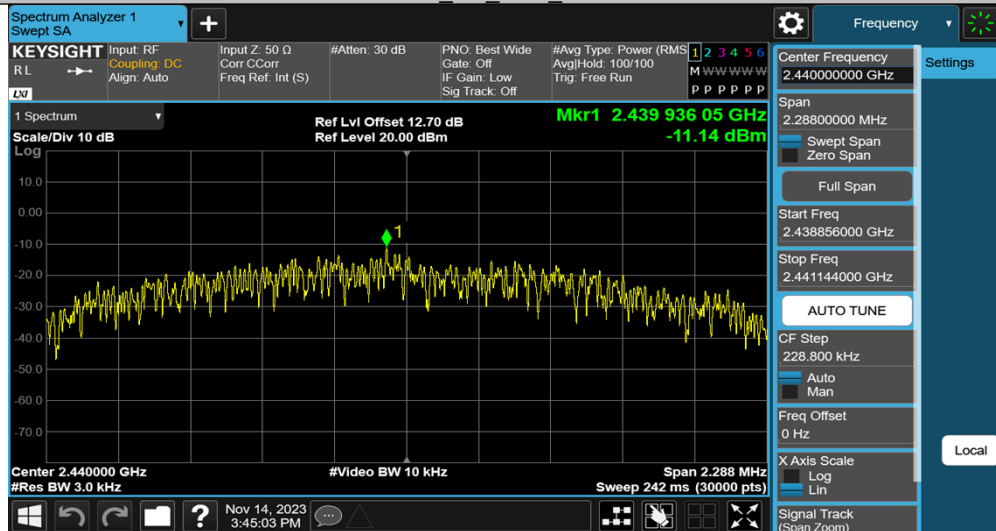
BLE 1M Ant1 2480



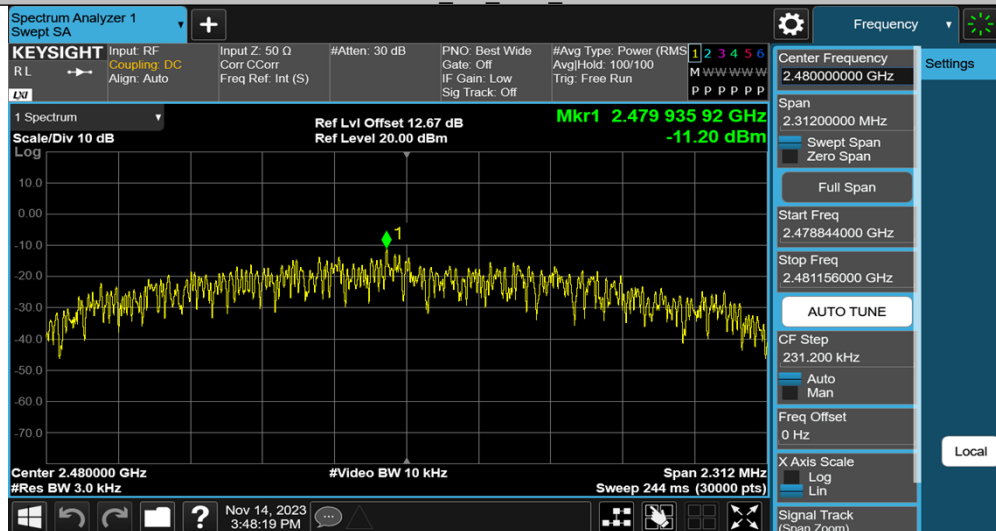
BLE 2M Ant1 2402



BLE 2M Ant1 2440



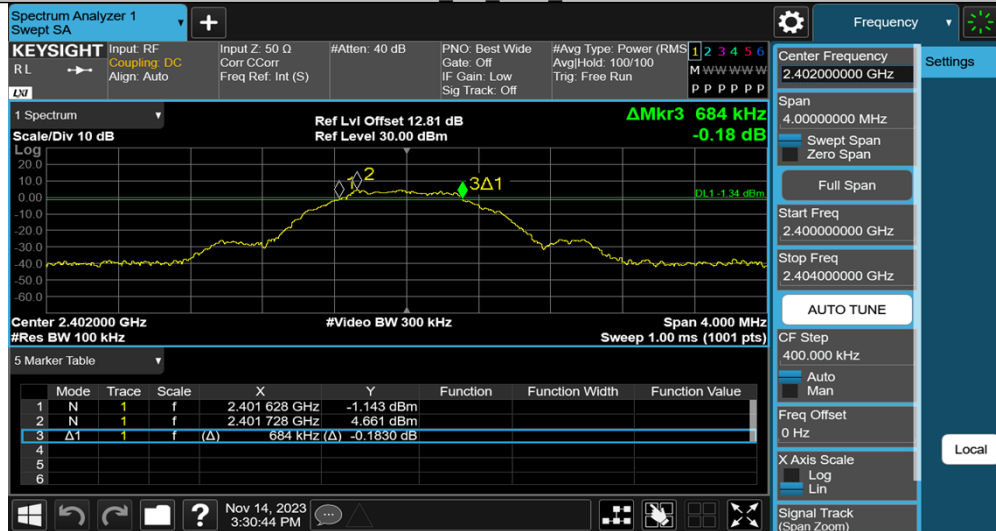
BLE 2M Ant1 2480



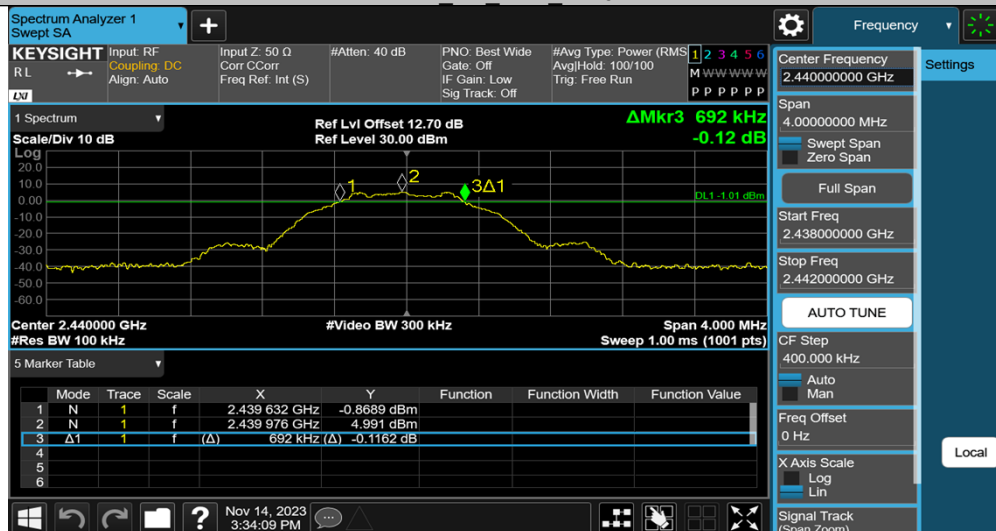
Appendix C.2: Test Results of 6dB Bandwidth

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

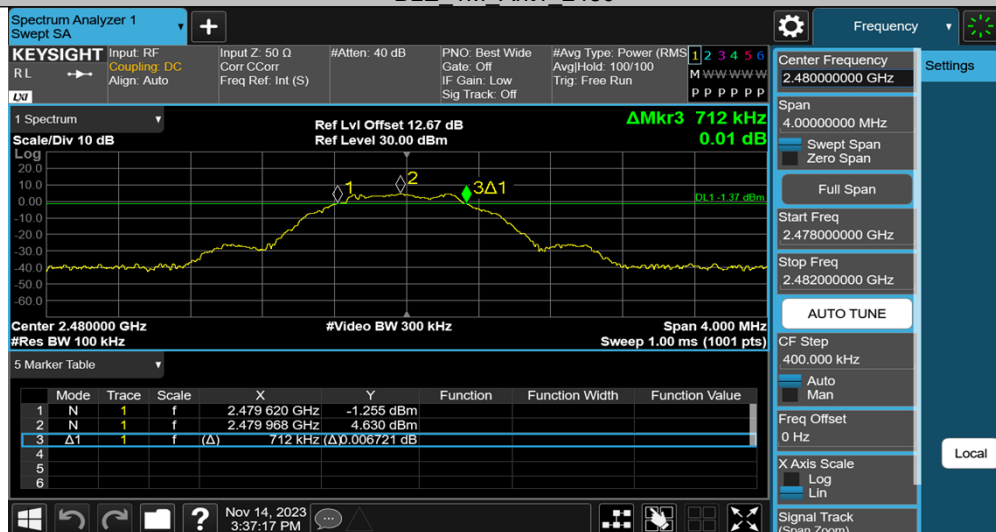
BLE 1M Ant1 2402



BLE 1M Ant1 2440



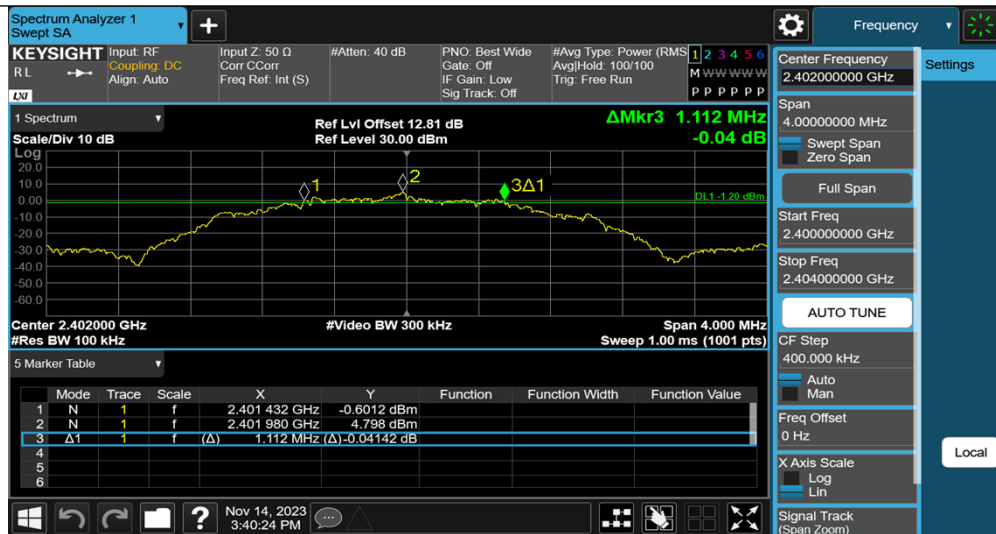
BLE 1M Ant1 2480



BLE 2M Ant1 2402

Prüfbericht - Produkte

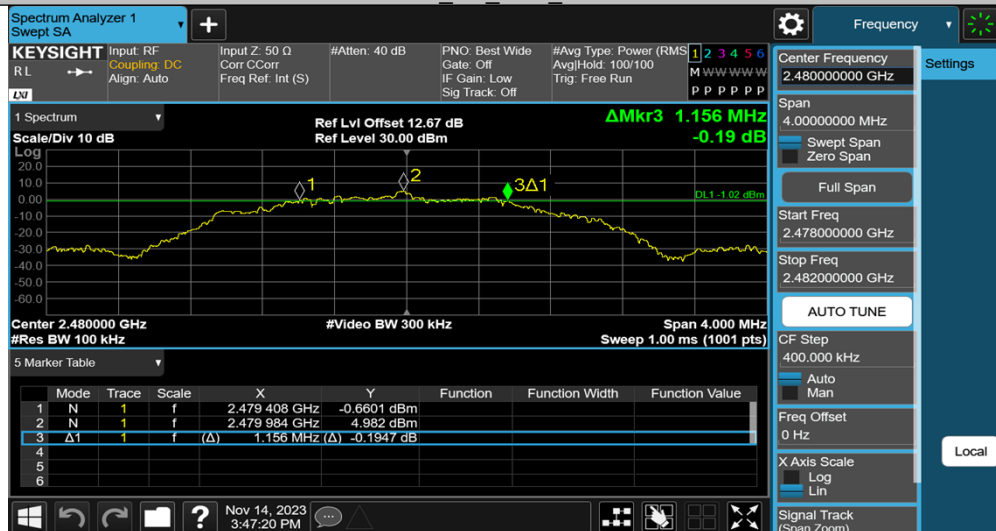
Test Report - Products



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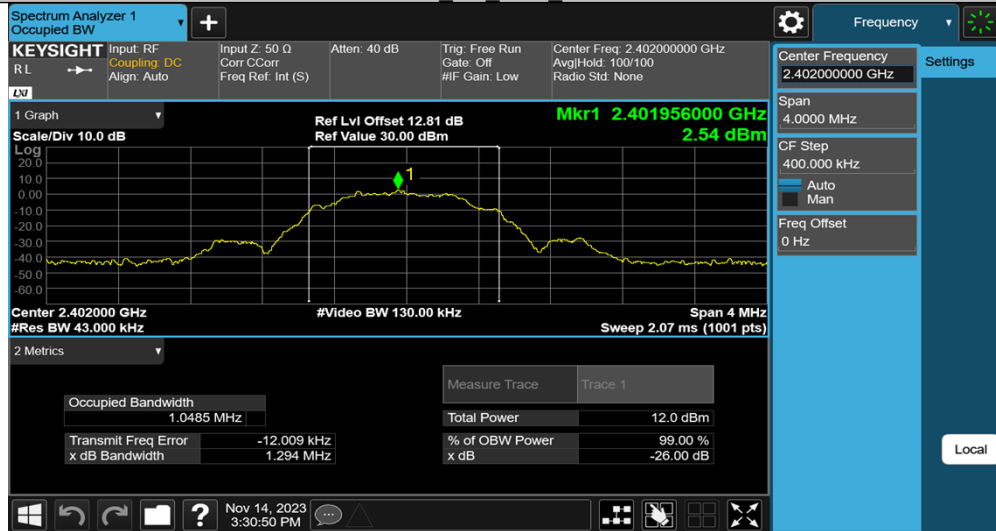
BLE 2M Ant1 2480



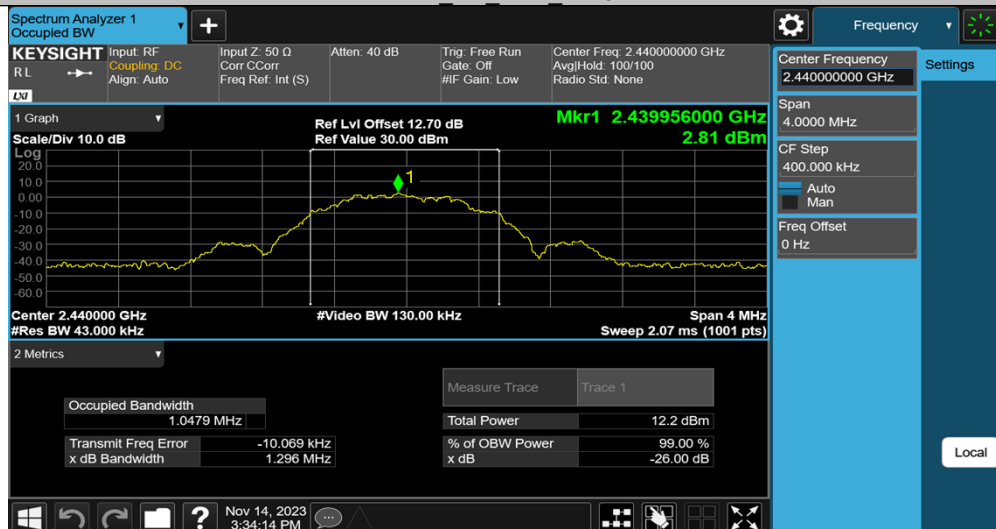
Appendix C.3: Test Results of 99% Bandwidth

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	---	---

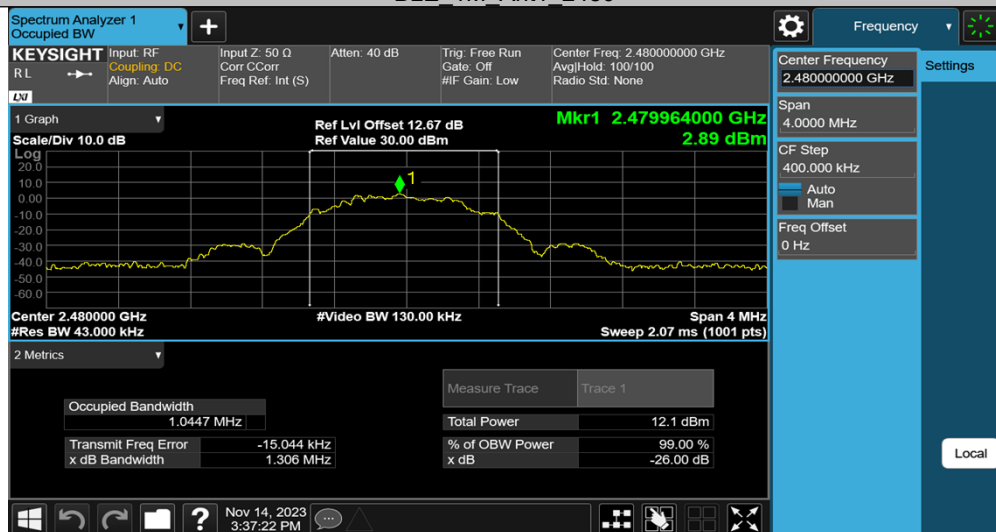
BLE 1M Ant1 2402



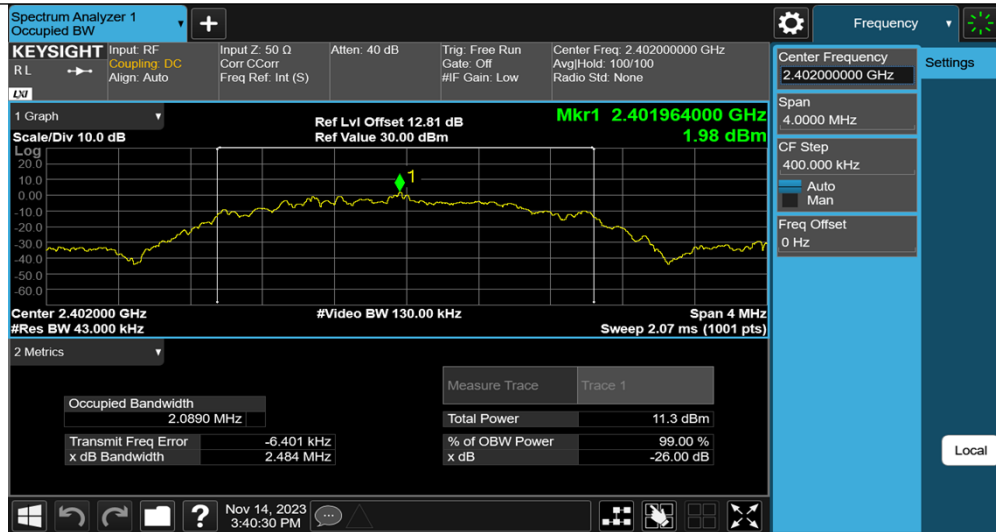
BLE 1M Ant1 2440



BLE 1M Ant1 2480



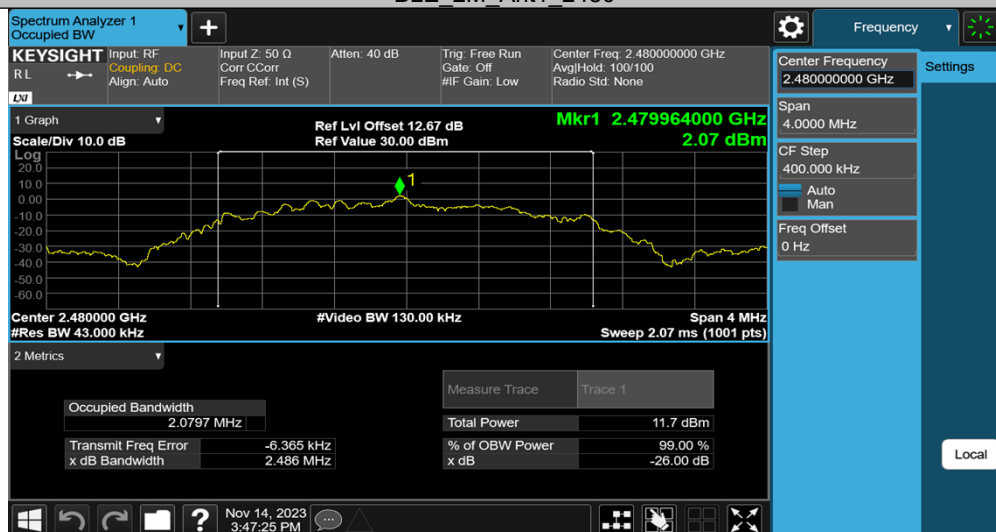
BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



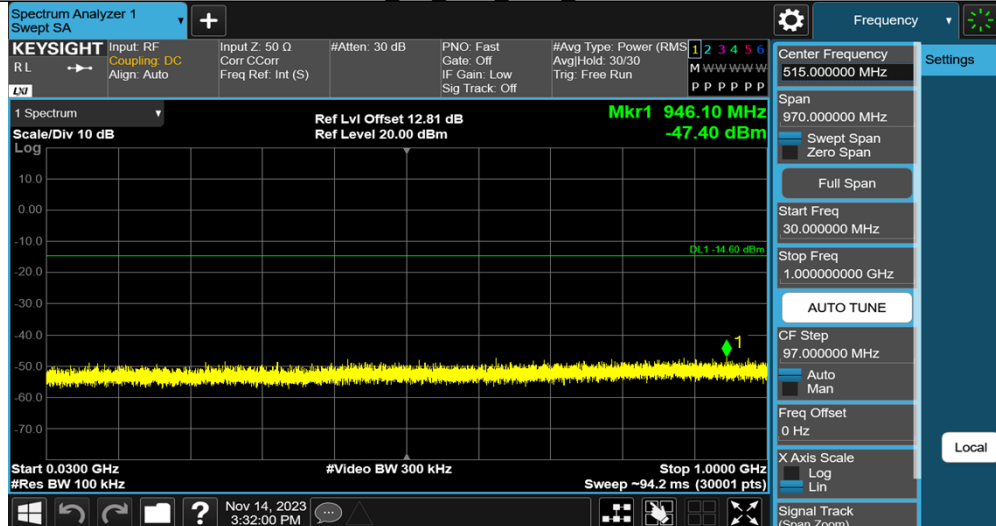
Appendix C.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

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

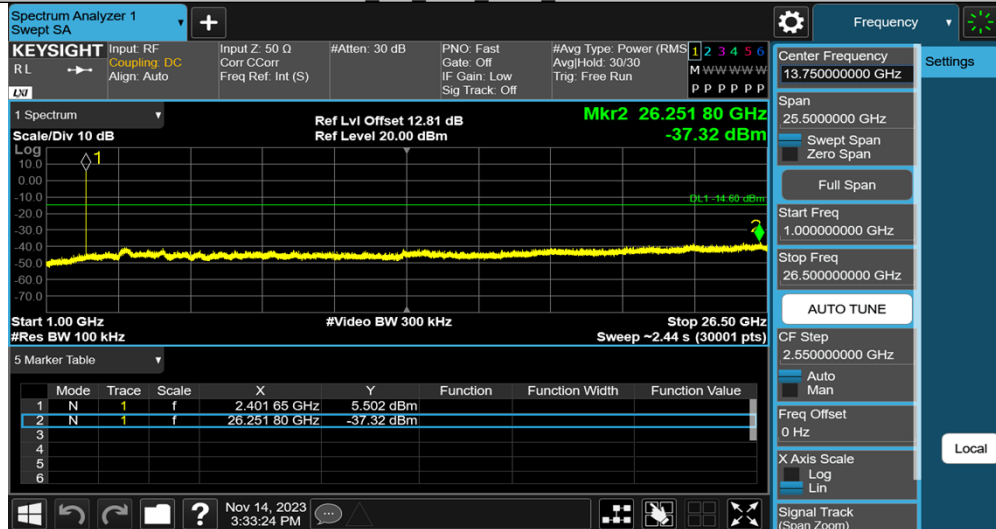
BLE 1M_Ant1_2402_0~Reference



BLE 1M_Ant1_2402_30~1000



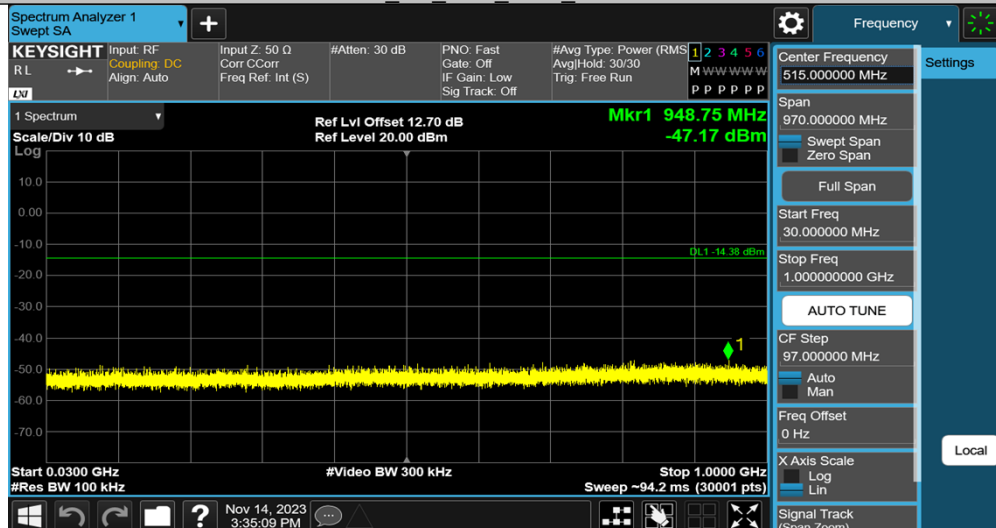
BLE 1M_Ant1_2402_1000~26500



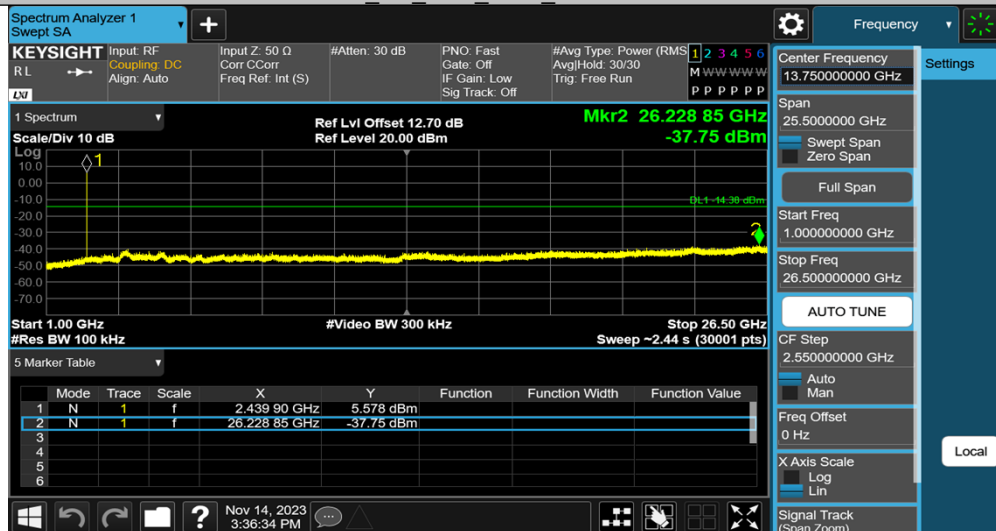
BLE 1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



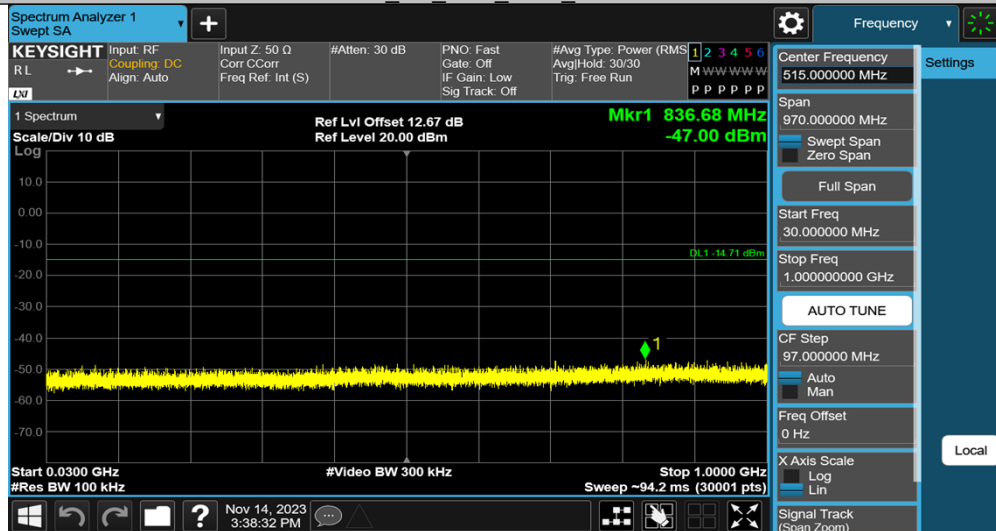
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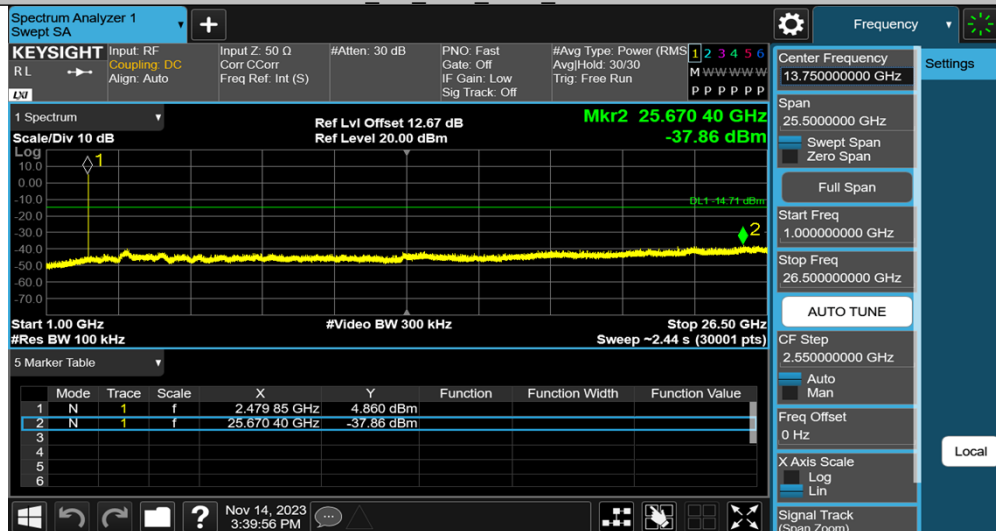
BLE_1M_Ant1_2480_0~Reference



BLE 1M Ant1 2480 30~1000



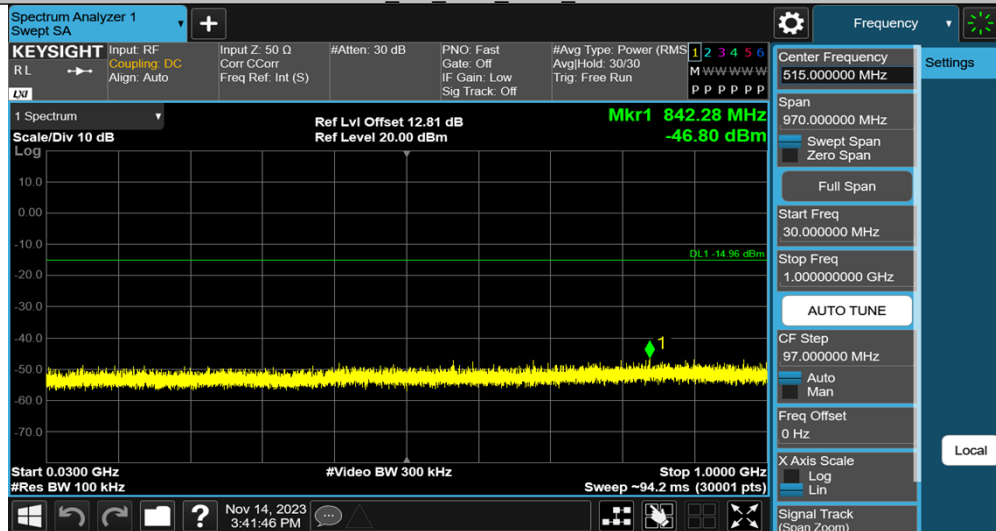
BLE 1M Ant1 2480 1000~26500



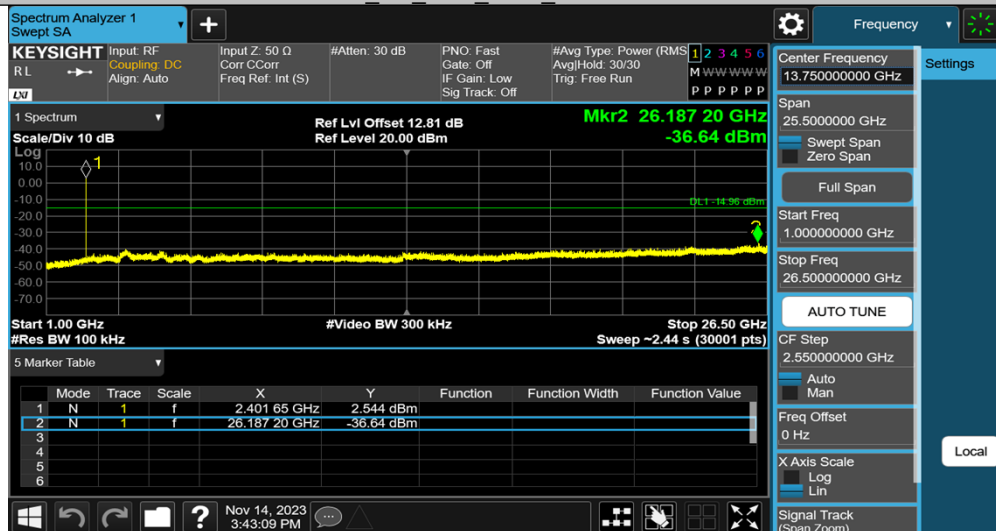
BLE 2M Ant1 2402 0~Reference



BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference