

Appendix FCC Test Data
Case No. : <u>NCT24045070XE</u>
EUT: <u>Keyboard</u>
Model: <u>F98X</u>
Standard: <u>FCC Part15 Subpart C, Section 15.247</u>
Test Power Supply: <u>DC 3.7V</u>
Ambient Condition: <u>25</u> °C, <u>45</u> %RH, <u>101.325</u> kPa
Test Date: <u>Nov. 01, 2024 ~ Nov. 06, 2024</u> Test Engineer: <u>Keven Wu</u>

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.716	2401.624	2402.340	0.5	PASS
		2440	0.728	2439.620	2440.348	0.5	PASS
		2480	0.708	2479.624	2480.332	0.5	PASS

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4GHz	Ant1	2402	1.024	2401.476	2402.500	0.5	PASS
		2440	1.032	2439.468	2440.500	0.5	PASS
		2480	1.020	2479.476	2480.496	0.5	PASS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



2.4GHz_Ant1_2402



2.4GHz_Ant1_2440



2.4GHz_Ant1_2480



Appendix B: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Channel	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.87	≤30	PASS
		2440	3.79	≤30	PASS
		2480	3.64	≤30	PASS

TestMode	Antenna	Channel	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4GHz	Ant1	2402	3.67	≤30	PASS
		2440	3.77	≤30	PASS
		2480	3.52	≤30	PASS

Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.74	≤8.00	PASS
		2440	-8.65	≤8.00	PASS
		2480	-10.01	≤8.00	PASS

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
2.4GHz	Ant1	2402	-8.18	≤8.00	PASS
		2440	-8.10	≤8.00	PASS
		2480	-10.24	≤8.00	PASS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



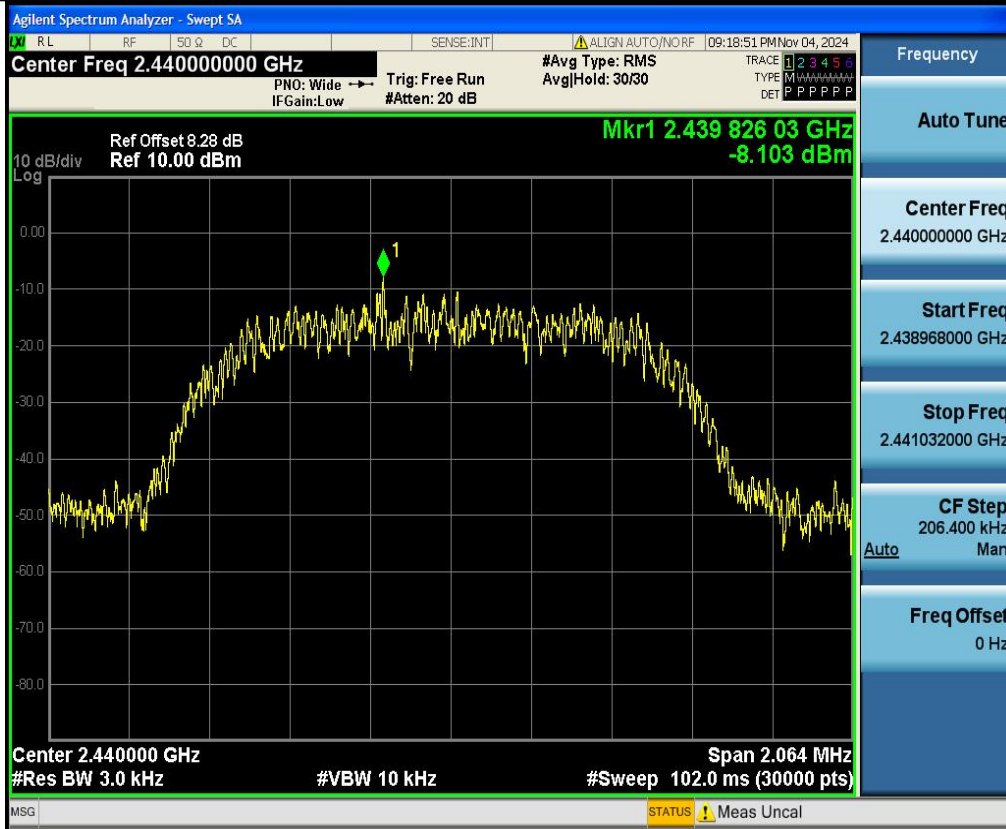
BLE_1M_Ant1_2480



2.4GHz_Ant1_2402



2.4GHz_Ant1_2440



2.4GHz_Ant1_2480



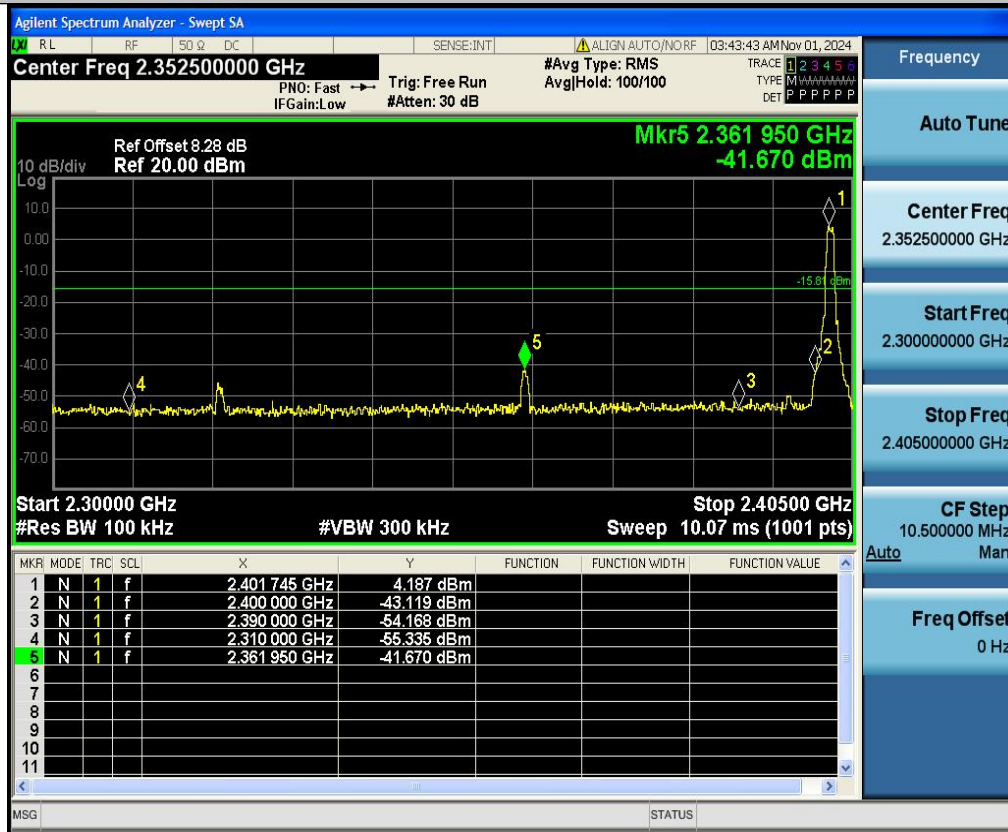
Appendix D: Band edge measurements

Test Result

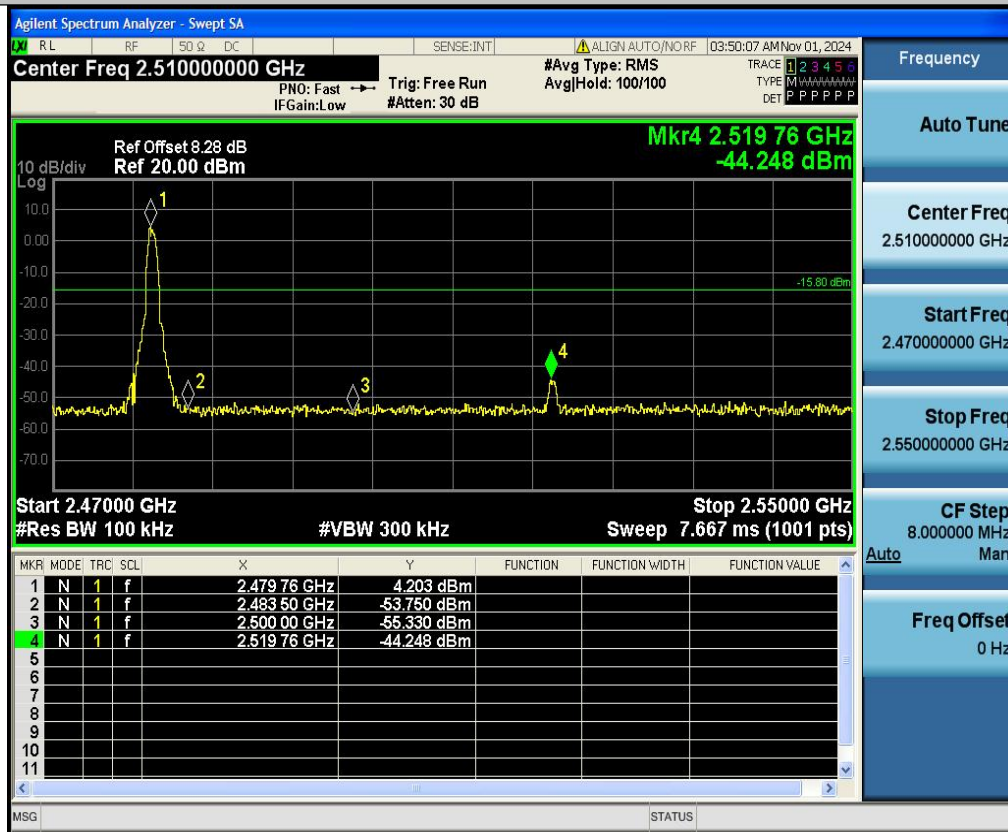
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.19	-41.67	≤-15.81	PASS
		High	2480	4.20	-44.25	≤-15.8	PASS

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
2.4GHz	Ant1	Low	2402	2.85	-42.83	≤-17.15	PASS
		High	2480	3.60	-45.75	≤-16.41	PASS

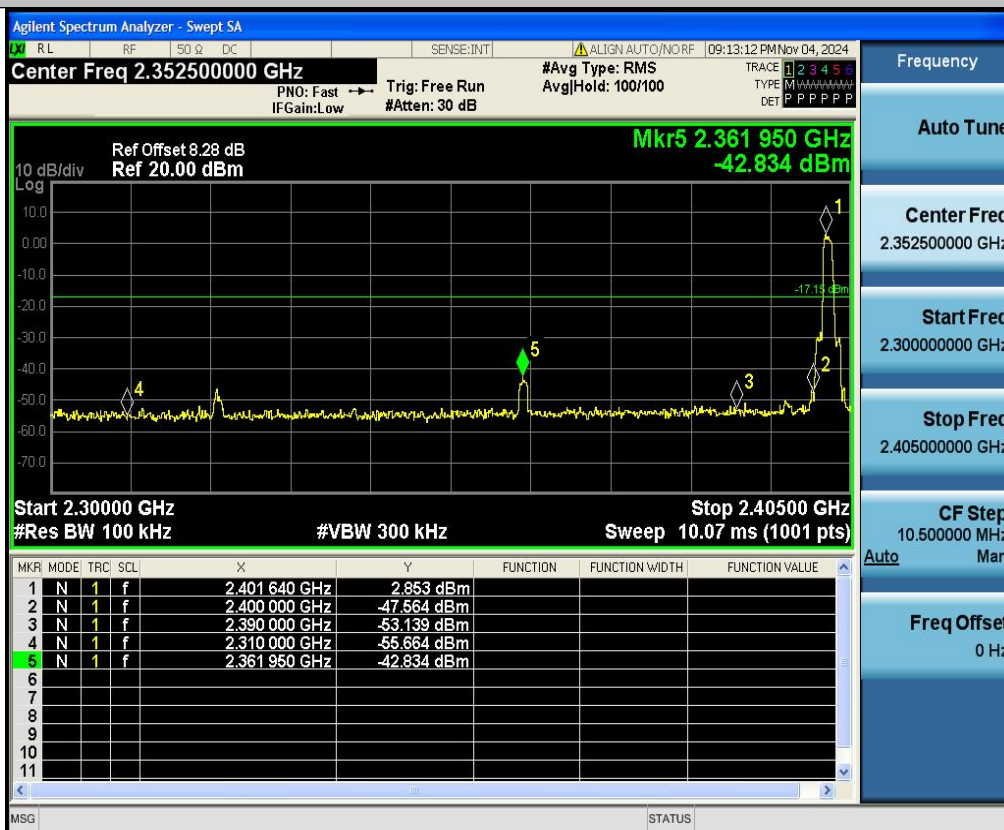
BLE_1M_Ant1_Low_2402



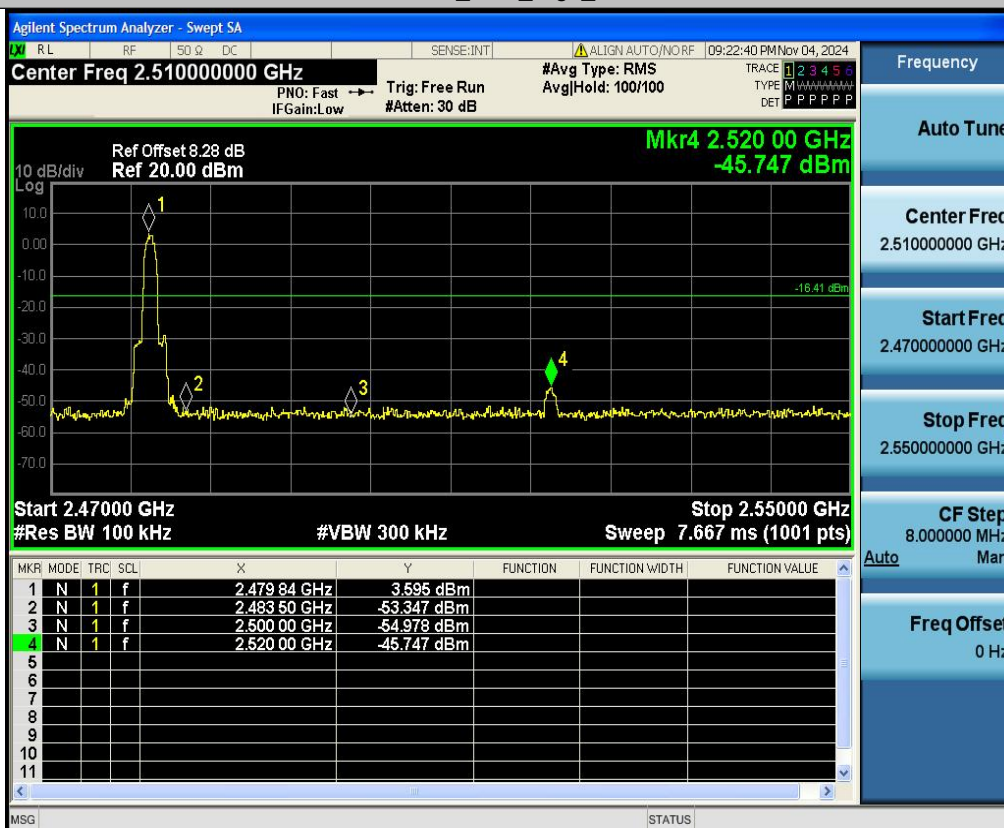
BLE_1M_Ant1_High_2480



2.4GHz_Ant1_Low_2402



2.4GHz_Ant1_High_2480



Appendix E: Conducted Spurious Emission

Test Result

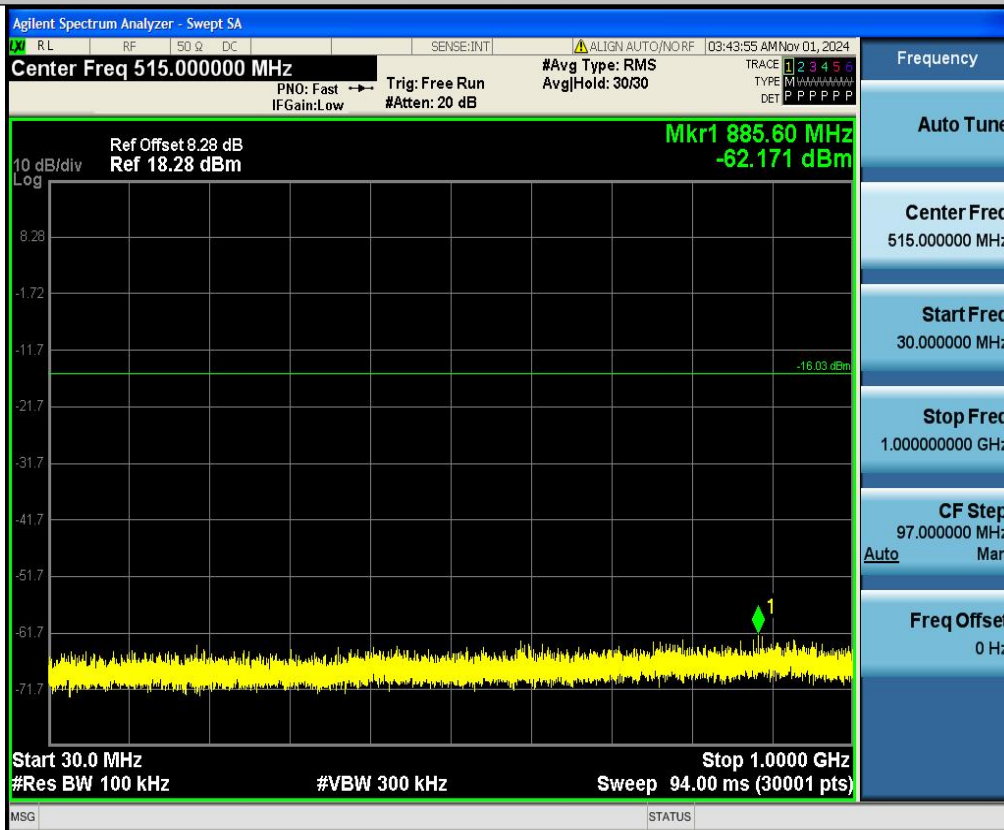
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.97	3.97	---	PASS
			30~1000	3.97	-62.17	≤-16.03	PASS
			1000~26500	3.97	-41.9	≤-16.03	PASS
		2440	Reference	2.10	2.10	---	PASS
			30~1000	2.10	-62.04	≤-17.9	PASS
			1000~26500	2.10	-43.19	≤-17.9	PASS
		2480	Reference	3.18	3.18	---	PASS
			30~1000	3.18	-62.58	≤-16.82	PASS
			1000~26500	3.18	-46.94	≤-16.82	PASS

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
2.4GHz	Ant1	2402	Reference	1.50	1.50	---	PASS
			30~1000	1.50	-63.15	≤-18.5	PASS
			1000~26500	1.50	-44.52	≤-18.5	PASS
		2440	Reference	0.89	0.89	---	PASS
			30~1000	0.89	-62.14	≤-19.11	PASS
			1000~26500	0.89	-45.16	≤-19.11	PASS
		2480	Reference	2.15	2.15	---	PASS
			30~1000	2.15	-61.55	≤-17.85	PASS
			1000~26500	2.15	-45	≤-17.85	PASS

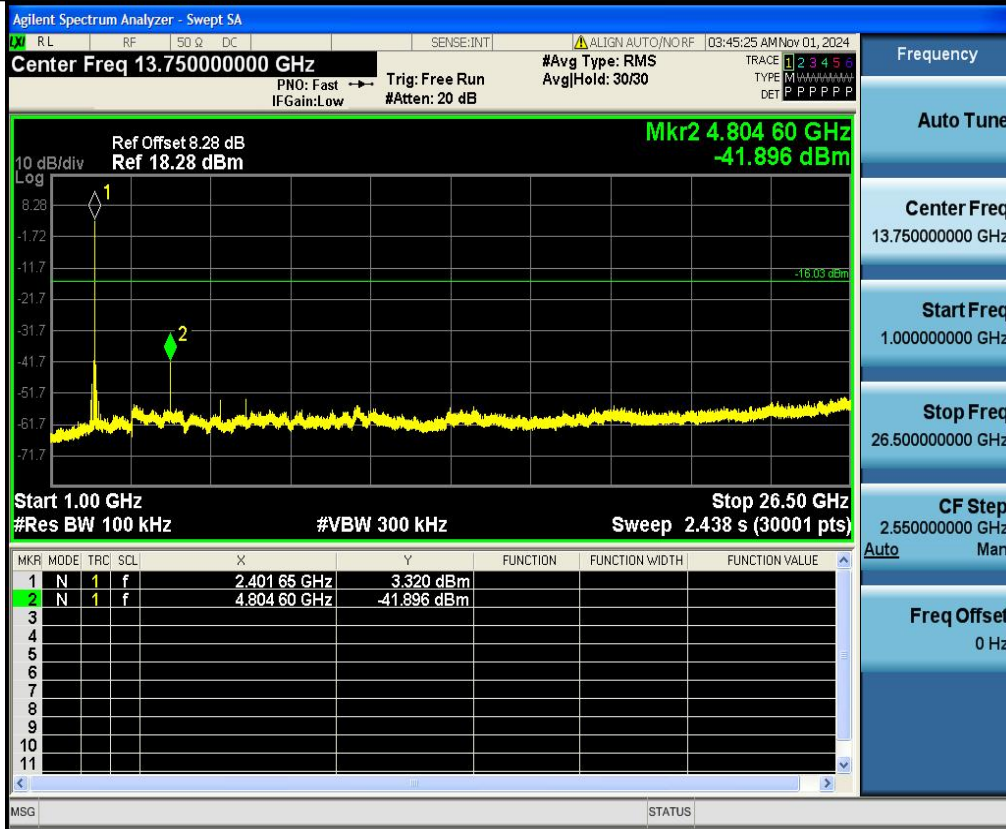
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



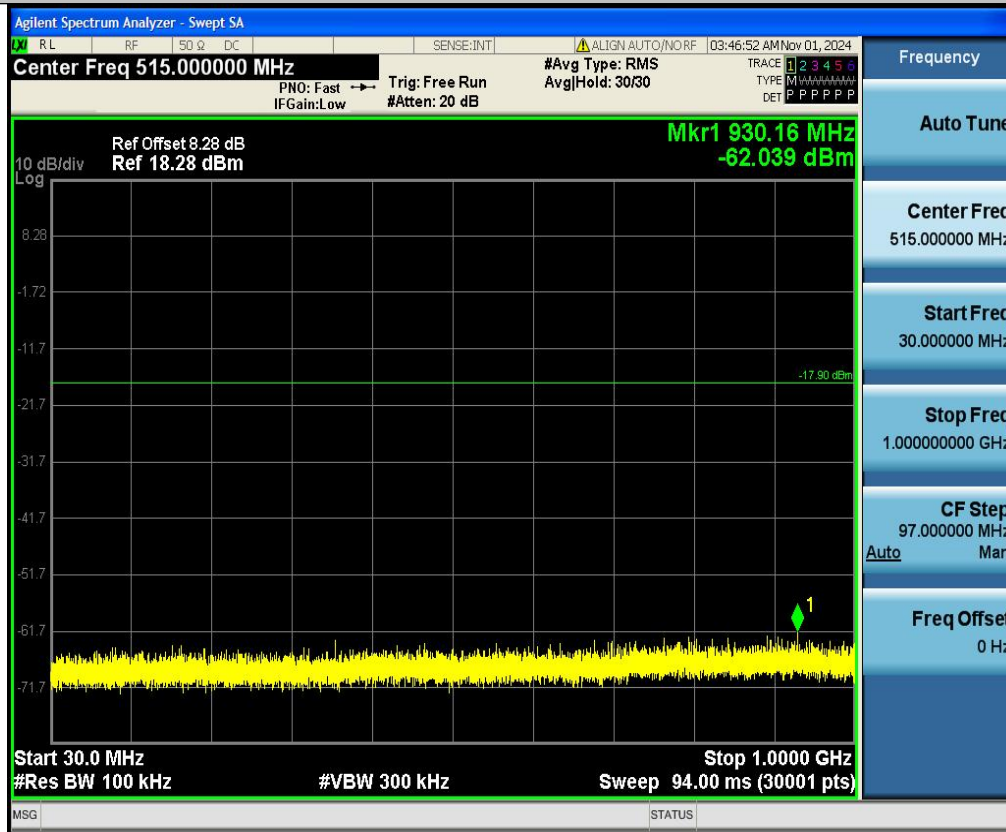
BLE_1M_Ant1_2402_1000~26500



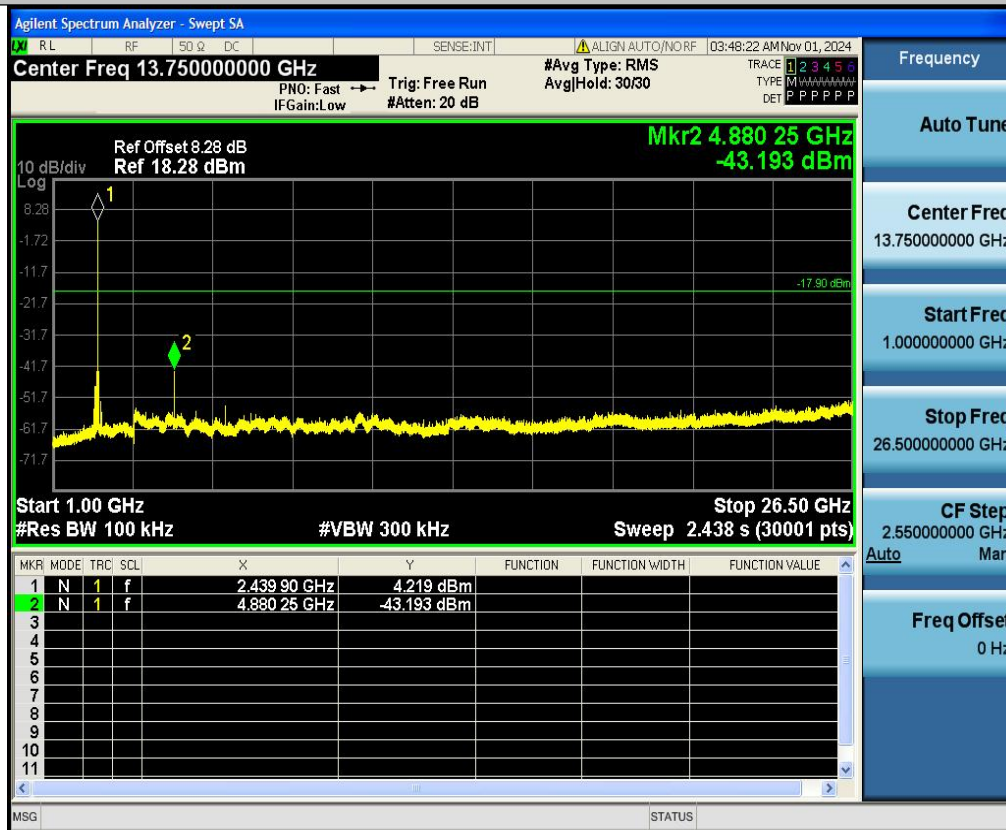
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



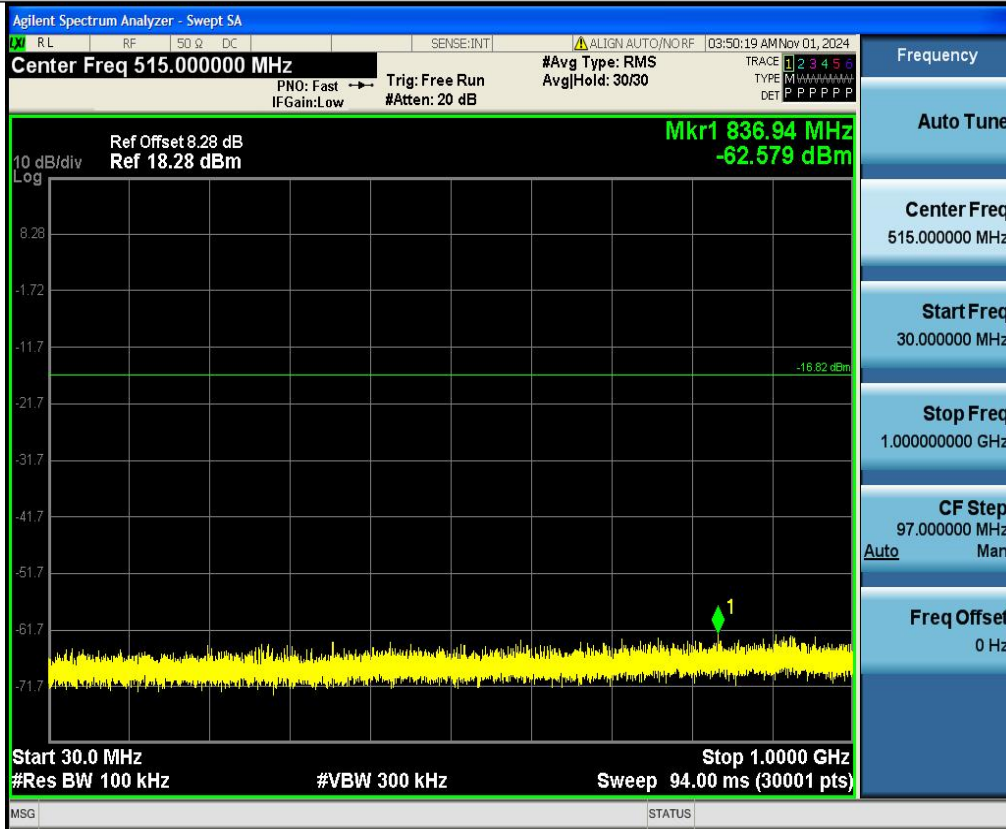
BLE_1M_Ant1_2440_1000~26500



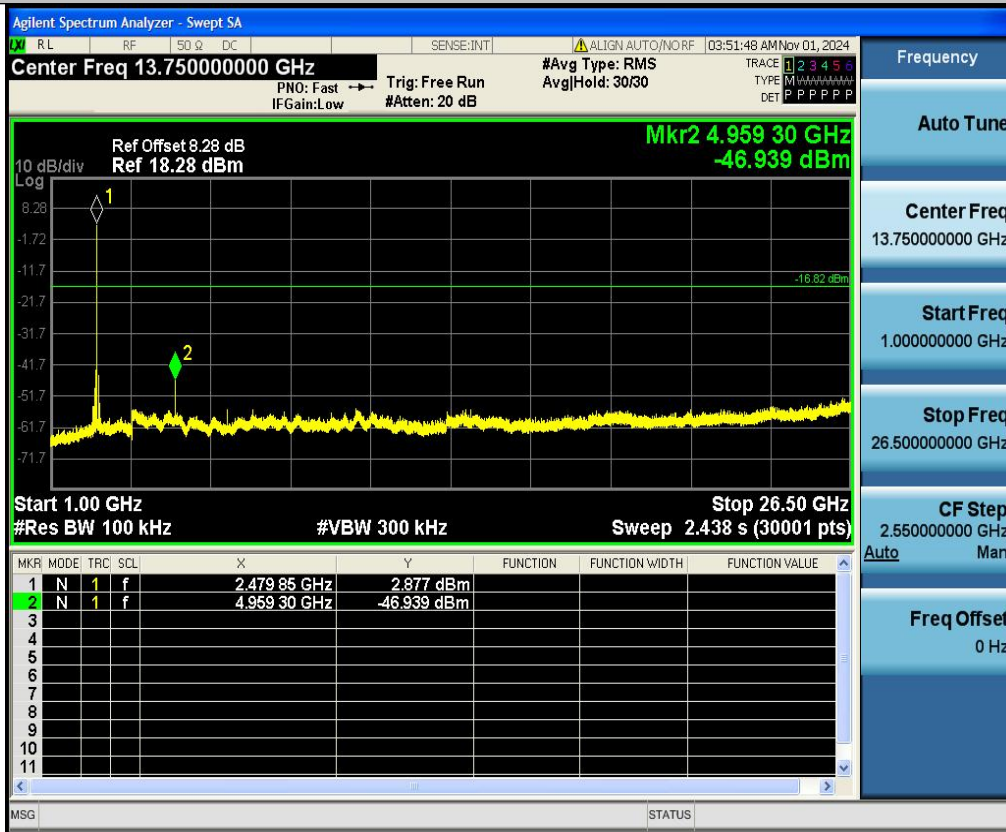
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



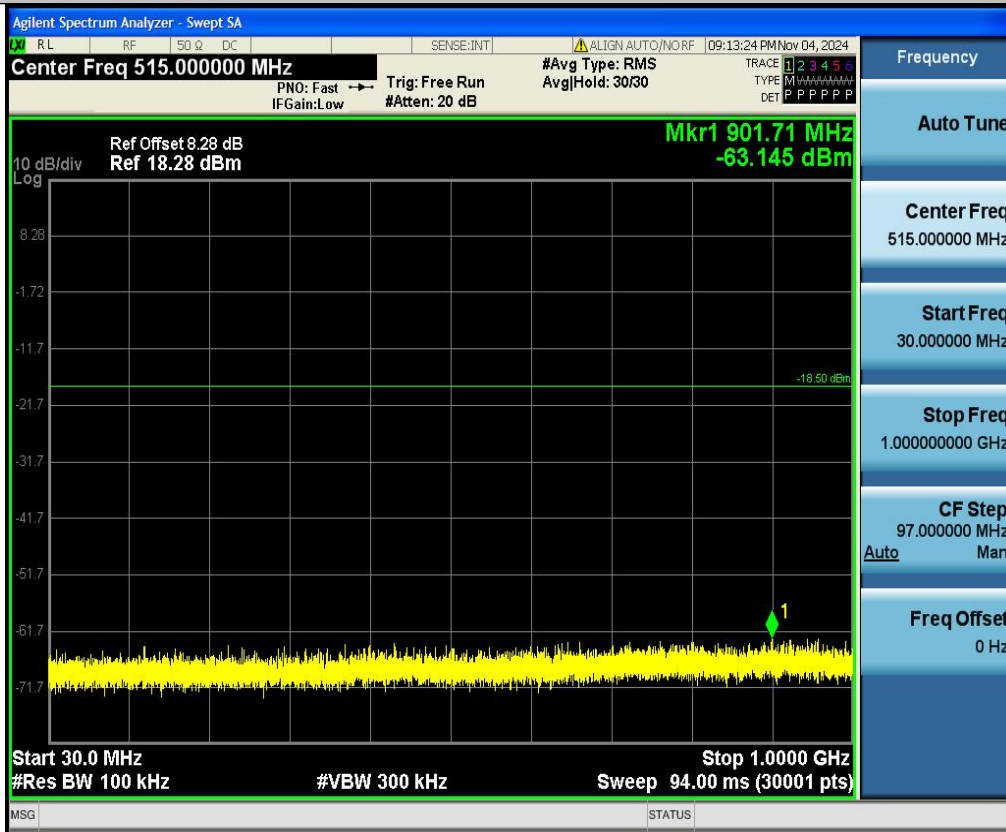
BLE_1M_Ant1_2480_1000~26500



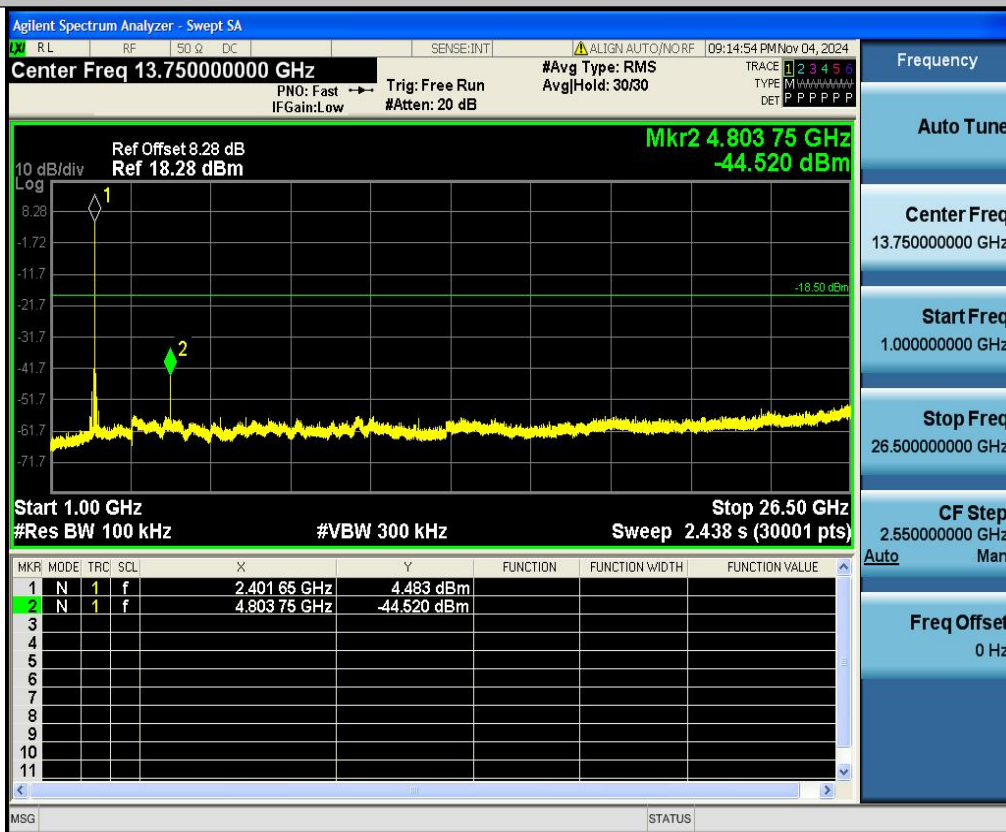
2.4GHz_Ant1_2402_0~Reference



2.4GHz_Ant1_2402_30~1000



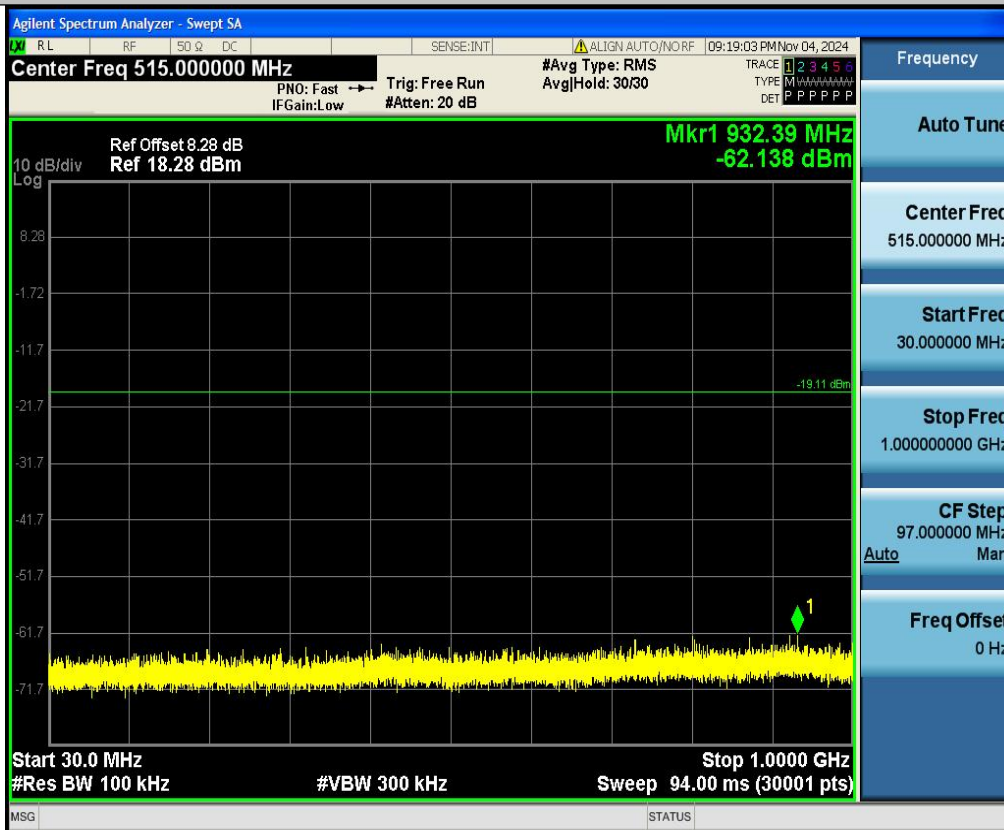
2.4GHz_Ant1_2402_1000~26500



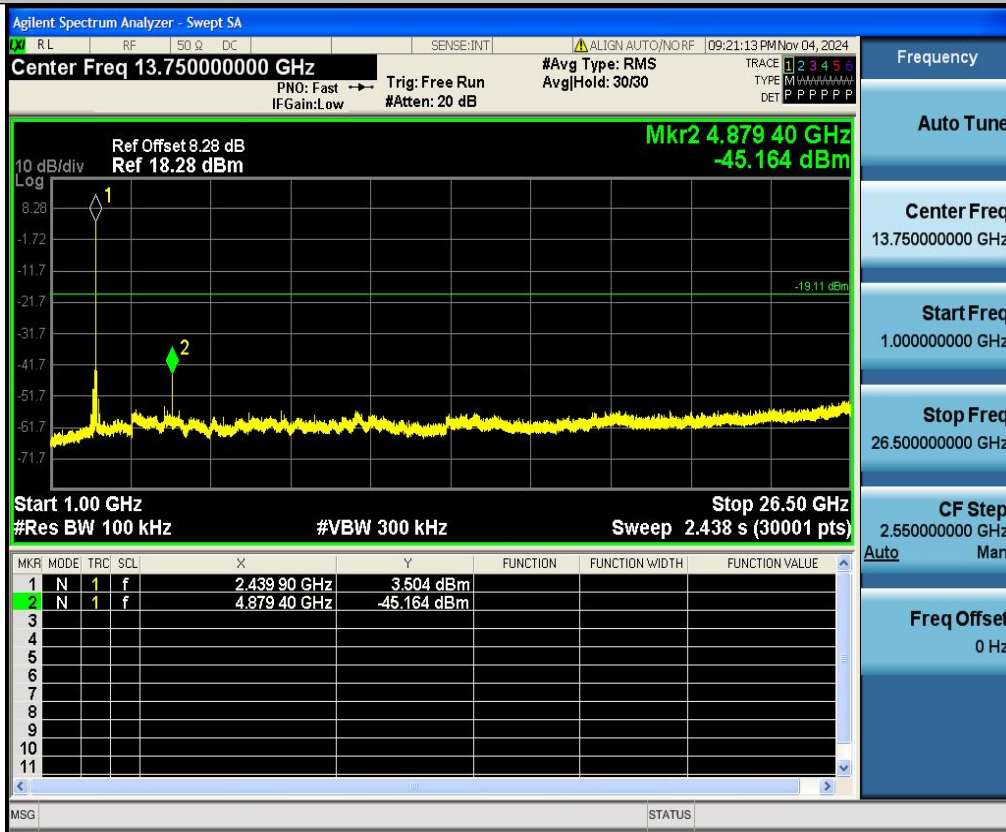
2.4GHz_Ant1_2440_0~Reference



2.4GHz_Ant1_2440_30~1000



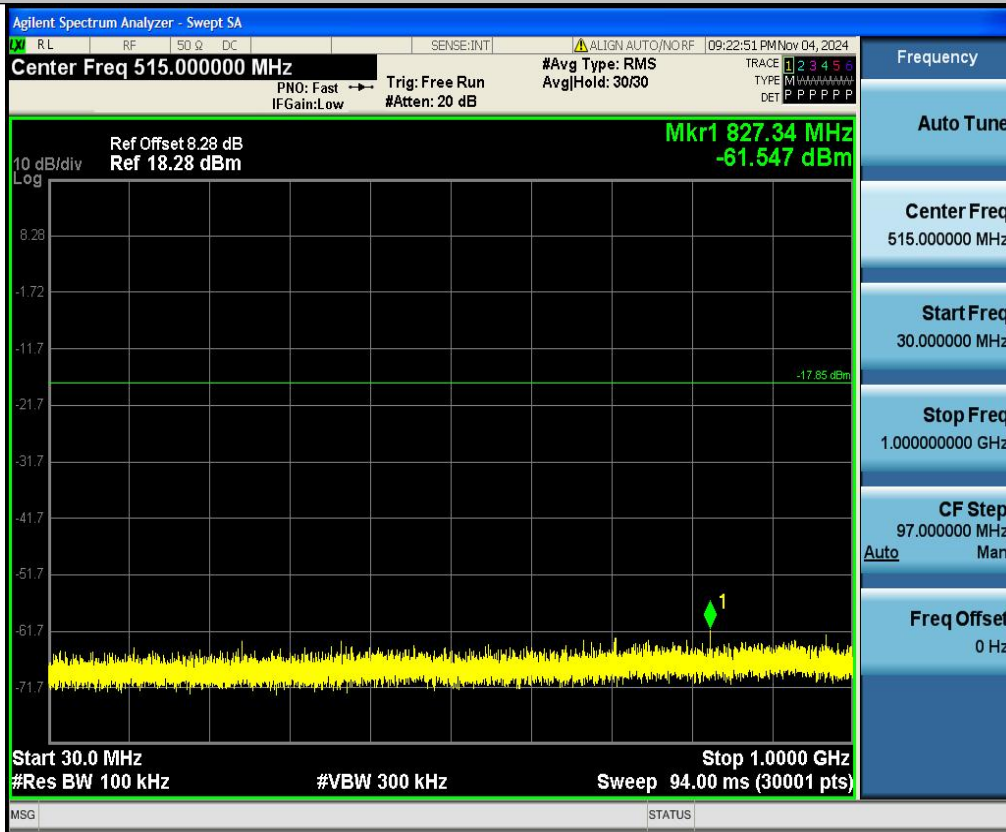
2.4GHz_Ant1_2440_1000~26500



2.4GHz_Ant1_2480_0~Reference



2.4GHz_Ant1_2480_30~1000



2.4GHz_Ant1_2480_1000~26500

