

Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: AC Electric Vehicle Charger

Test Model: D070PD7-01

Environmental Conditions

Temperature:	24.9°C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

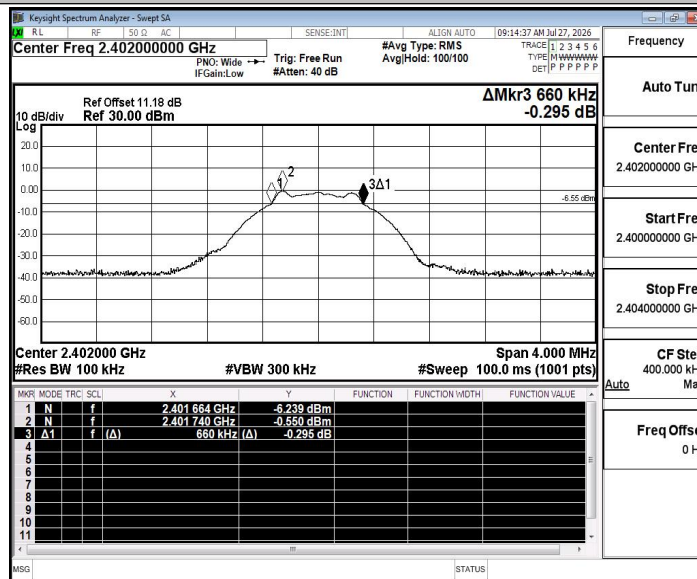
A.1 DTS Bandwidth

Test Result

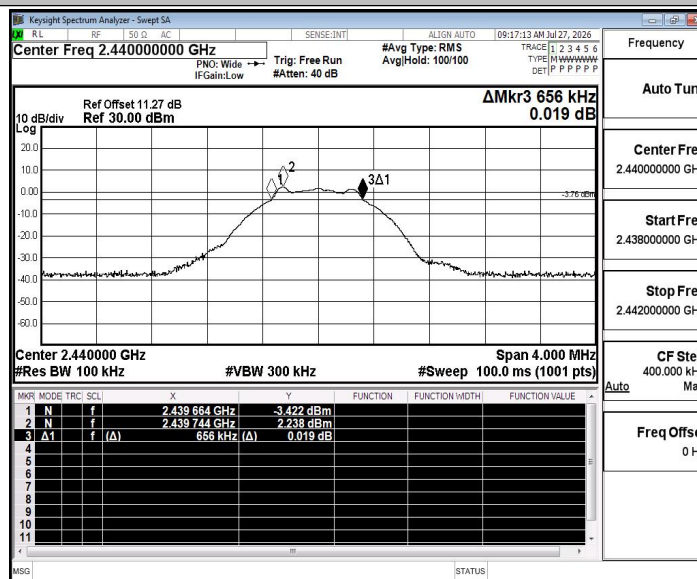
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.664	2402.324	0.5	PASS
		2440	0.656	2439.664	2440.320	0.5	PASS
		2480	0.664	2479.660	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.160	2401.400	2402.560	0.5	PASS
		2440	1.152	2439.408	2440.560	0.5	PASS
		2480	1.152	2479.404	2480.556	0.5	PASS

Test Graphs

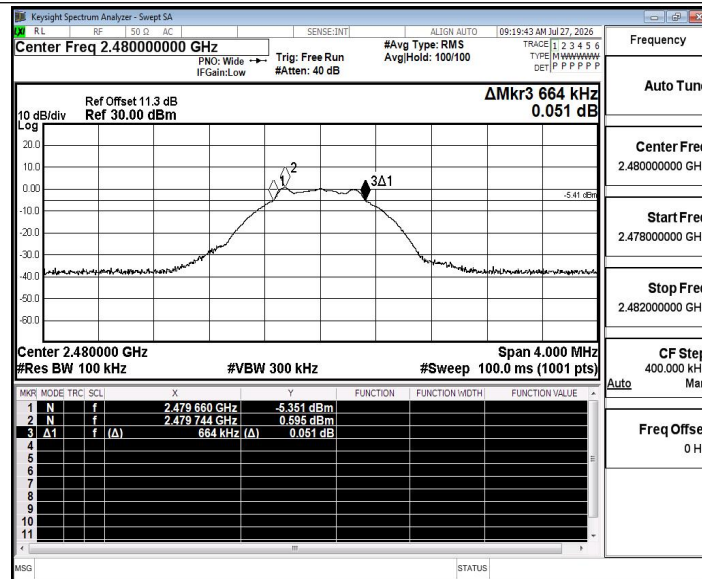
BLE_1M_Ant1_2402



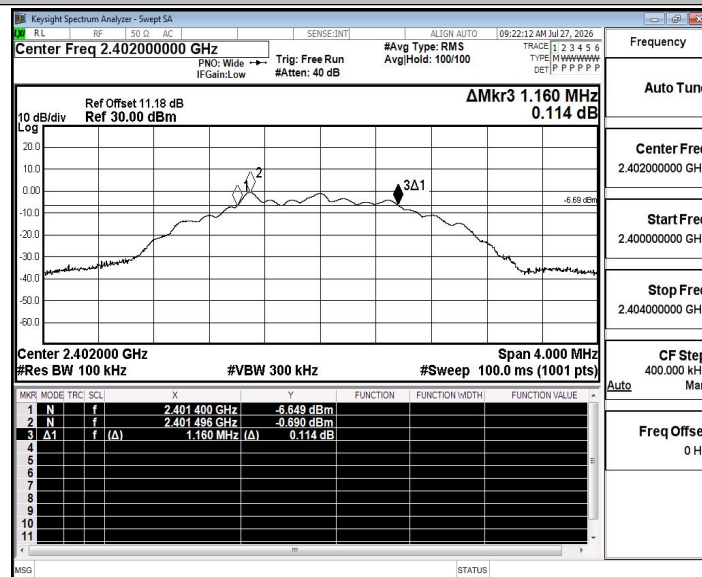
BLE_1M_Ant1_2440



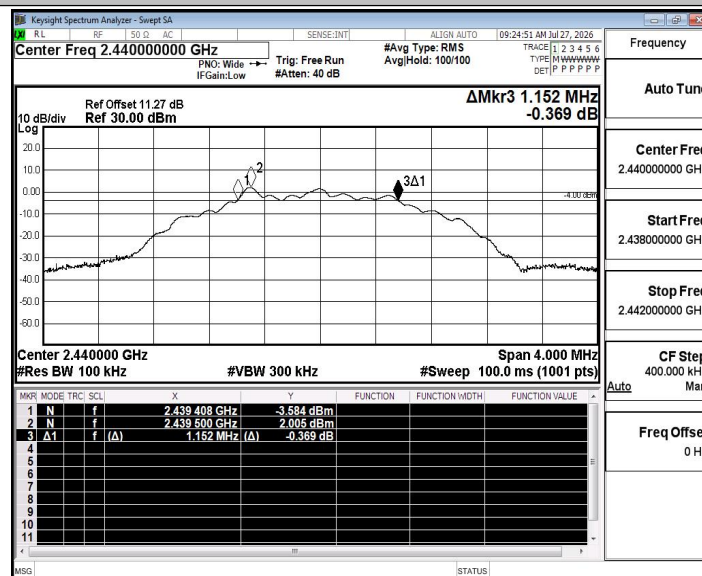
BLE_1M_Ant1_2480

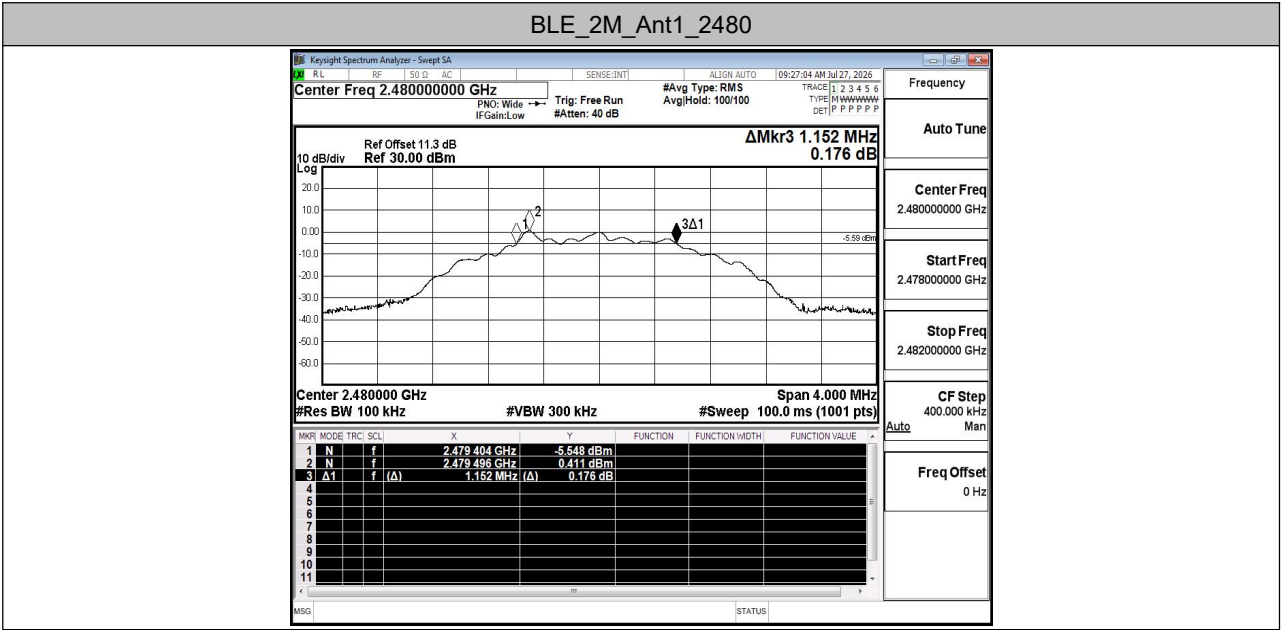


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





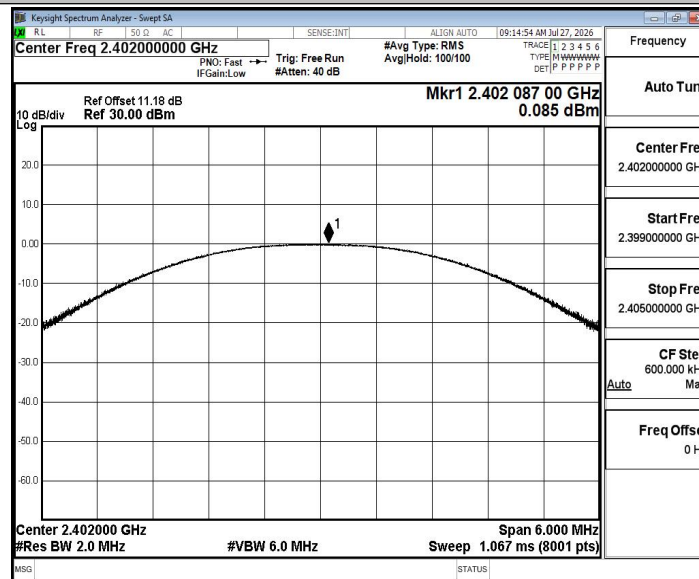
A.2 Maximum Peak conducted output power

Test Result Peak

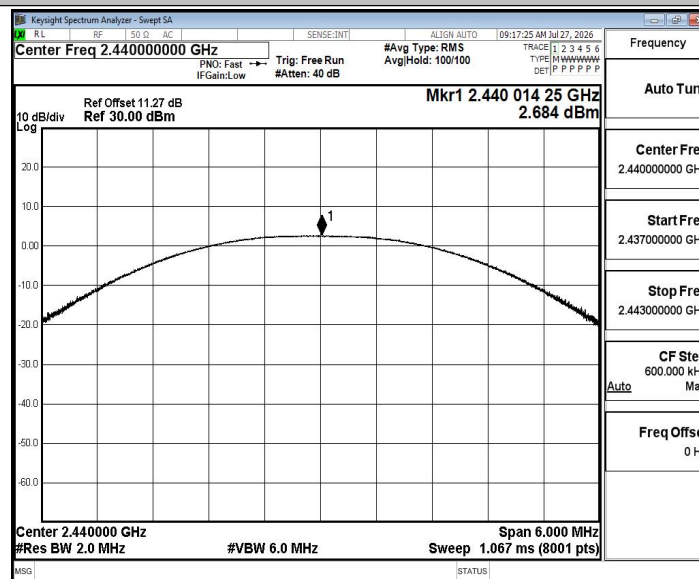
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.09	≤30	PASS
		2440	2.68	≤30	PASS
		2480	1.20	≤30	PASS
BLE_2M	Ant1	2402	0.00	≤30	PASS
		2440	2.63	≤30	PASS
		2480	1.10	≤30	PASS

Test Graphs Peak

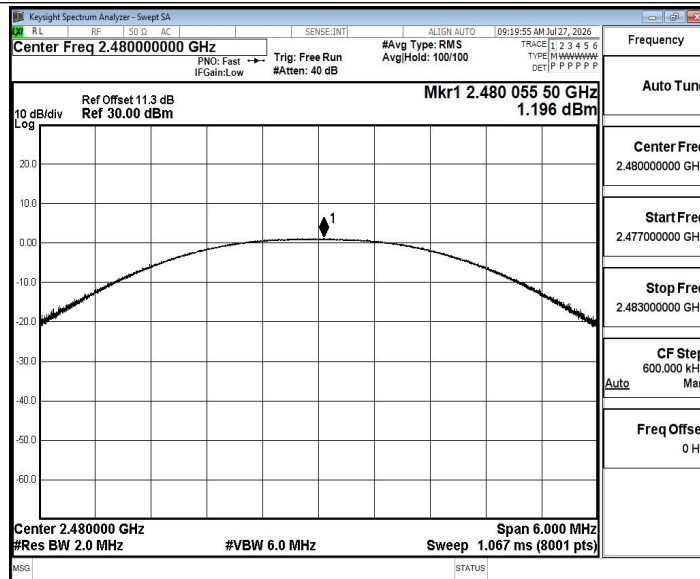
BLE_1M_Ant1_2402



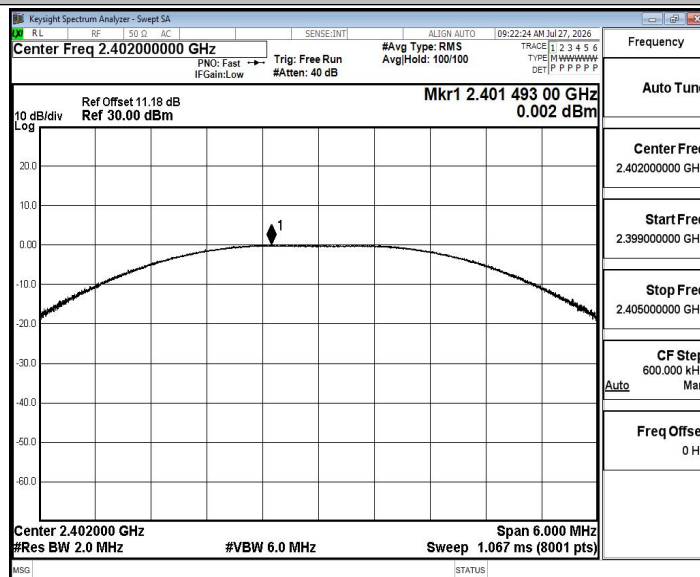
BLE_1M_Ant1_2440



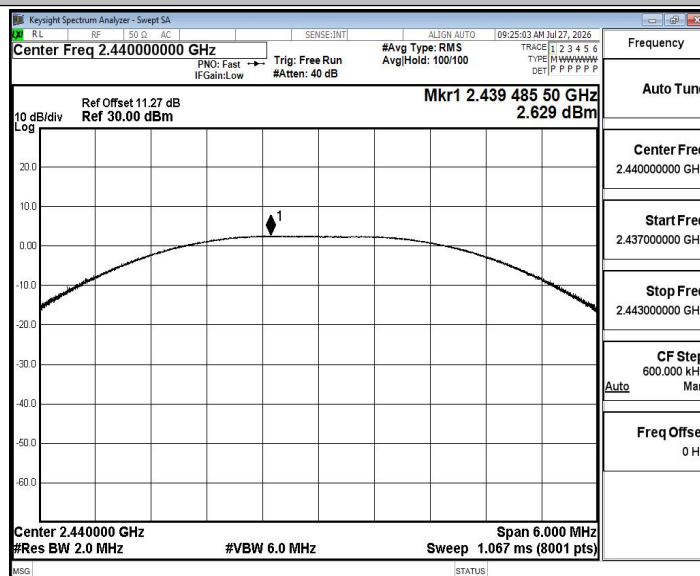
BLE_1M_Ant1_2480



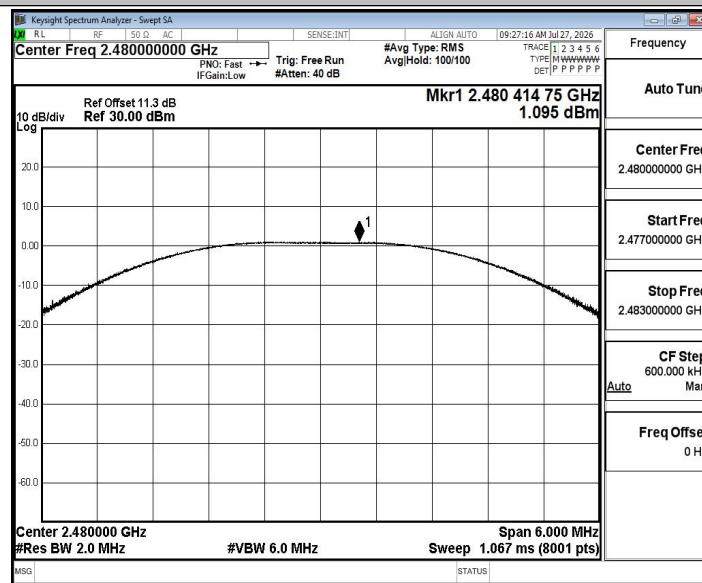
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



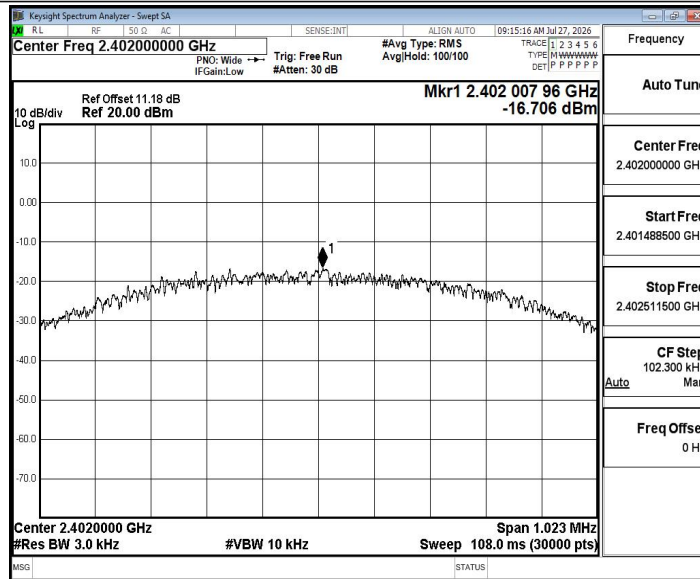
A.3 Maximum power spectral density

Test Result

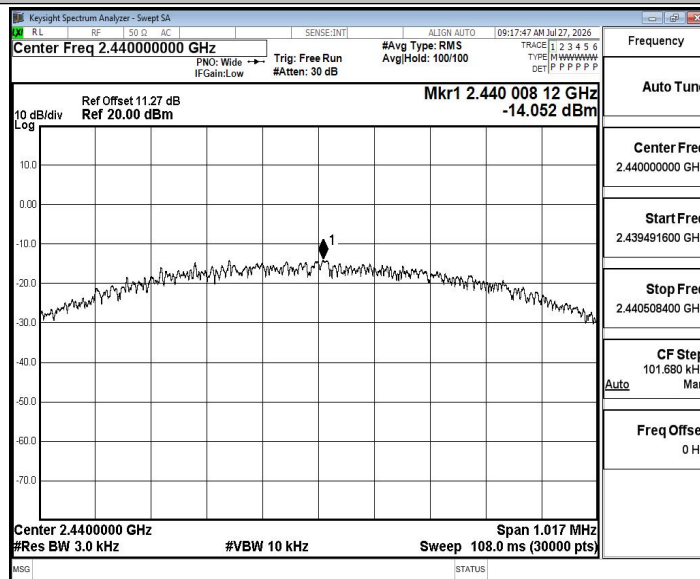
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.71	≤8.00	PASS
		2440	-14.05	≤8.00	PASS
		2480	-15.45	≤8.00	PASS
BLE_2M	Ant1	2402	-19.75	≤8.00	PASS
		2440	-17.25	≤8.00	PASS
		2480	-18.79	≤8.00	PASS

Test Graphs

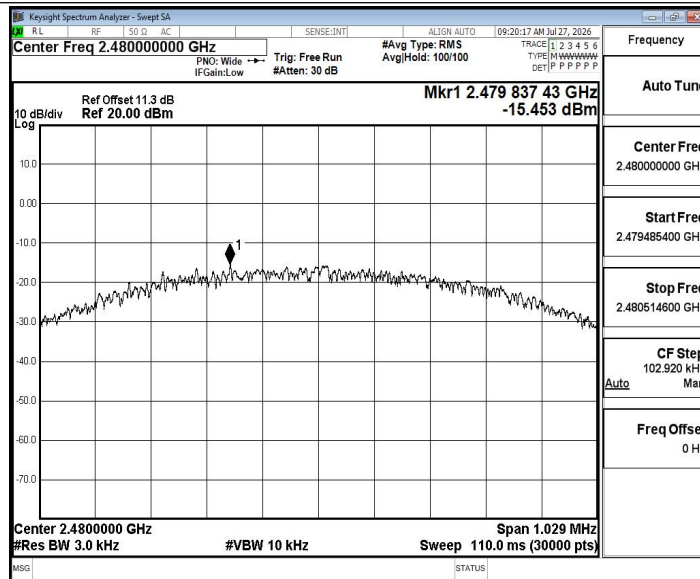
BLE_1M_Ant1_2402



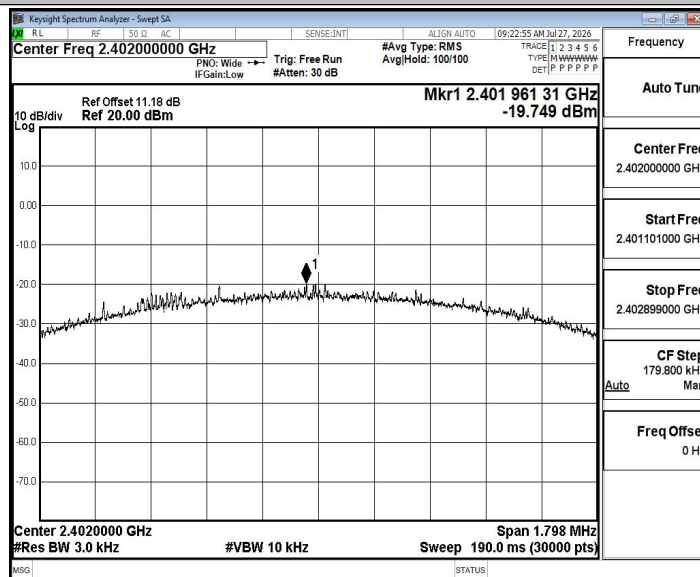
BLE_1M_Ant1_2440



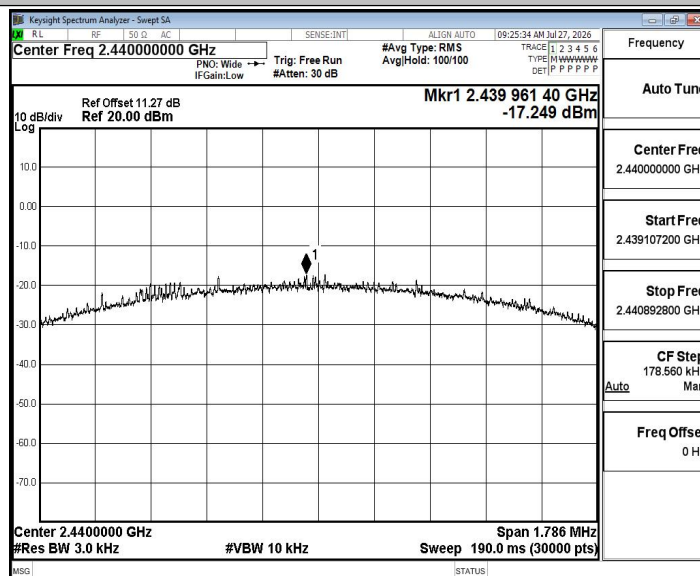
BLE_1M_Ant1_2480

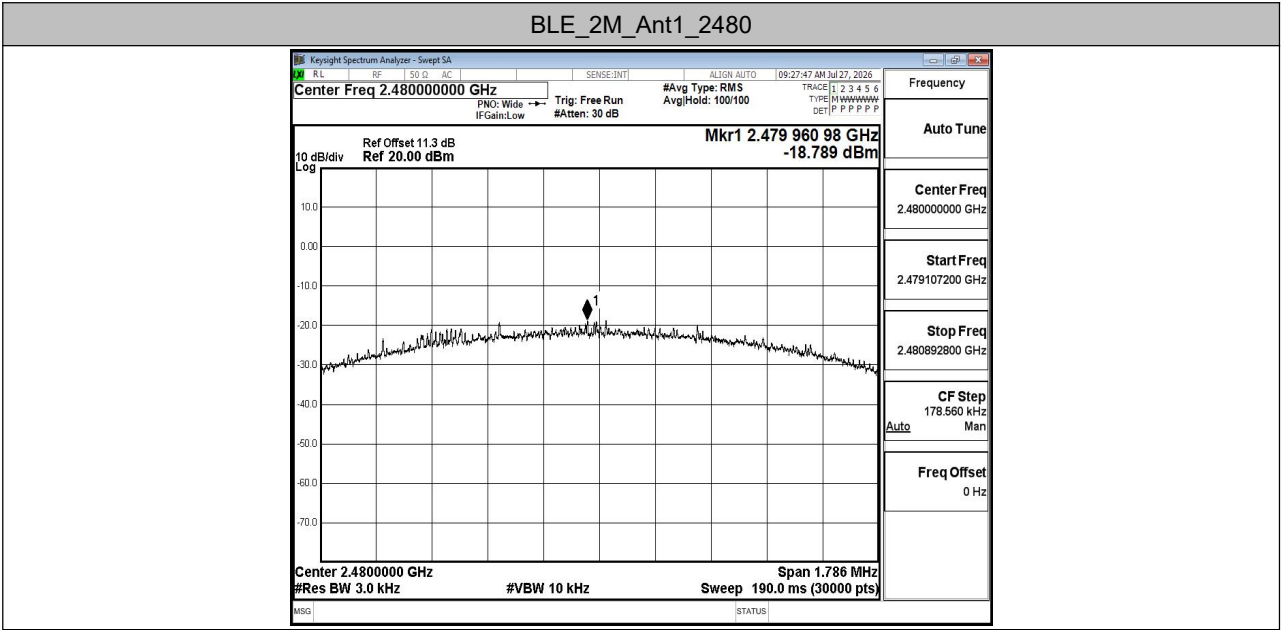


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





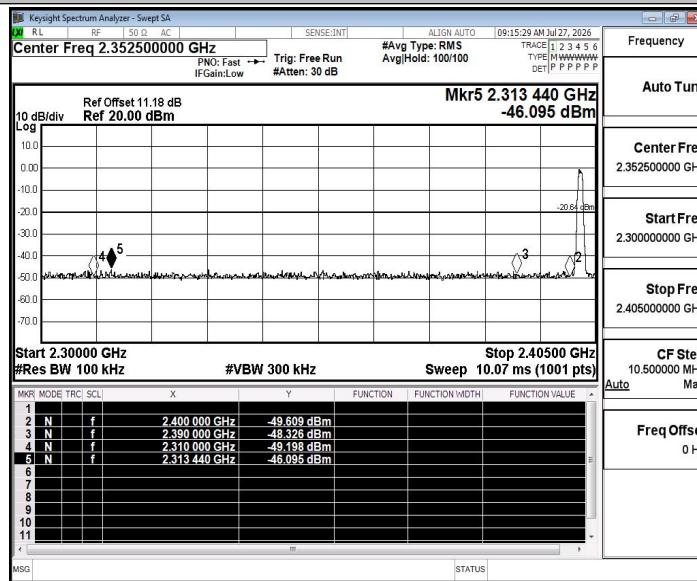
A.4 Band edge measurements

Test Result

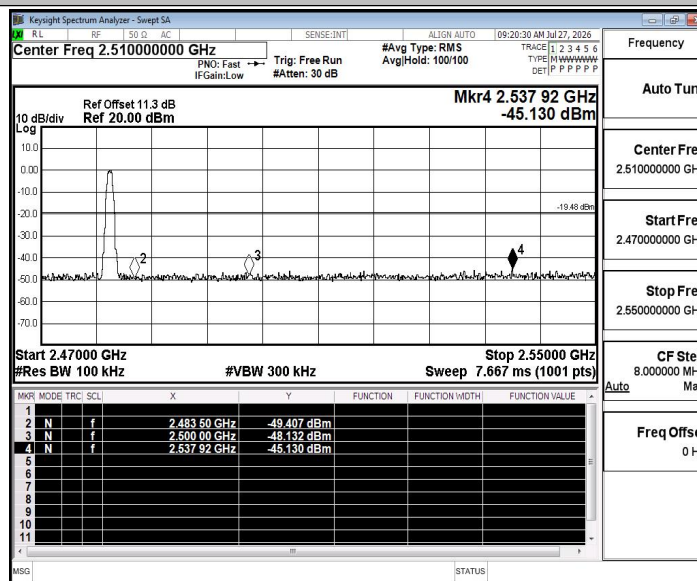
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.64	-46.1	≤-20.64	PASS
		High	2480	0.52	-45.13	≤-19.48	PASS
BLE_2M	Ant1	Low	2402	-0.79	-43.62	≤-20.79	PASS
		High	2480	0.23	-45.78	≤-19.77	PASS

Test Graphs

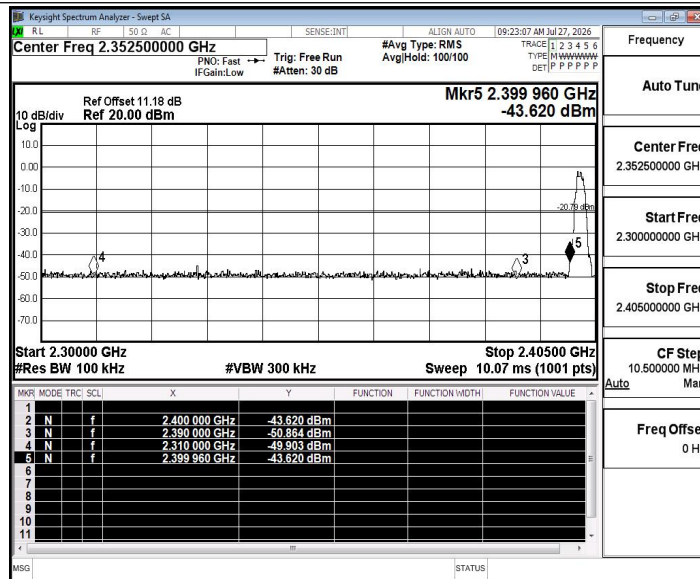
BLE_1M_Ant1_Low_2402



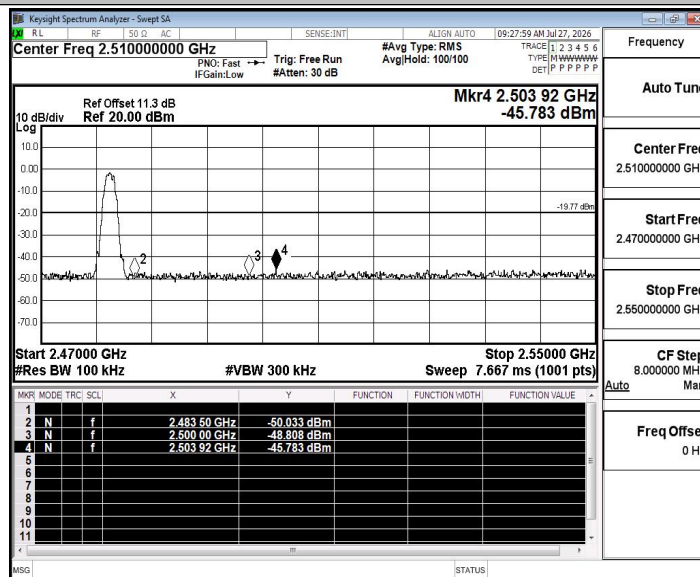
BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402



BLE_2M_Ant1_High_2480



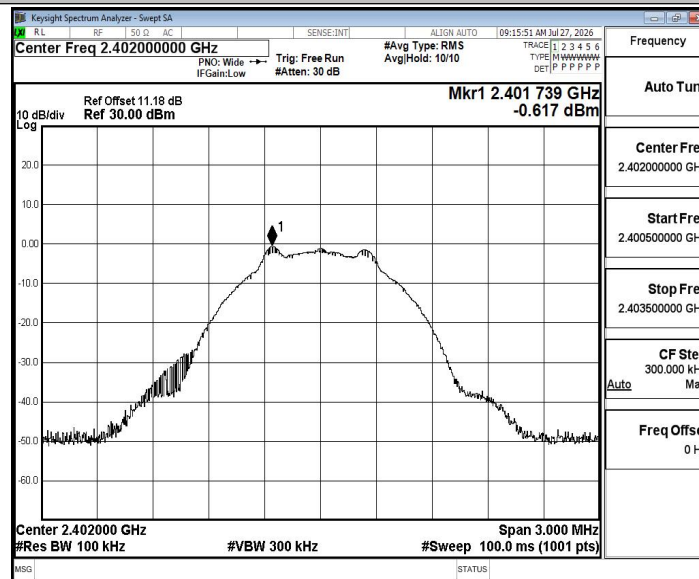
A.5 Conducted Spurious Emission

Test Result

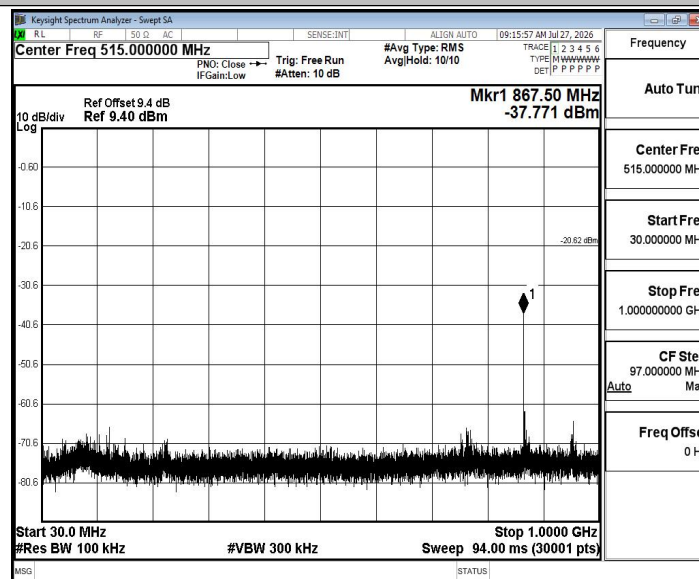
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.62	-0.62	---	PASS
			30~1000	-0.62	-37.77	≤-20.62	PASS
			1000~26500	-0.62	-44.57	≤-20.62	PASS
		2440	Reference	2.10	2.10	---	PASS
			30~1000	2.10	-32.05	≤-17.9	PASS
			1000~26500	2.10	-44.55	≤-17.9	PASS
		2480	Reference	0.51	0.51	---	PASS
			30~1000	0.51	-33.79	≤-19.49	PASS
			1000~26500	0.51	-44.3	≤-19.49	PASS
BLE_2M	Ant1	2402	Reference	-0.76	-0.76	---	PASS
			30~1000	-0.76	-35.19	≤-20.76	PASS
			1000~26500	-0.76	-44.2	≤-20.76	PASS
		2440	Reference	1.92	1.92	---	PASS
			30~1000	1.92	-35.88	≤-18.08	PASS
			1000~26500	1.92	-44.1	≤-18.08	PASS
		2480	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-35.45	≤-19.66	PASS
			1000~26500	0.34	-43.99	≤-19.66	PASS

Test Graphs

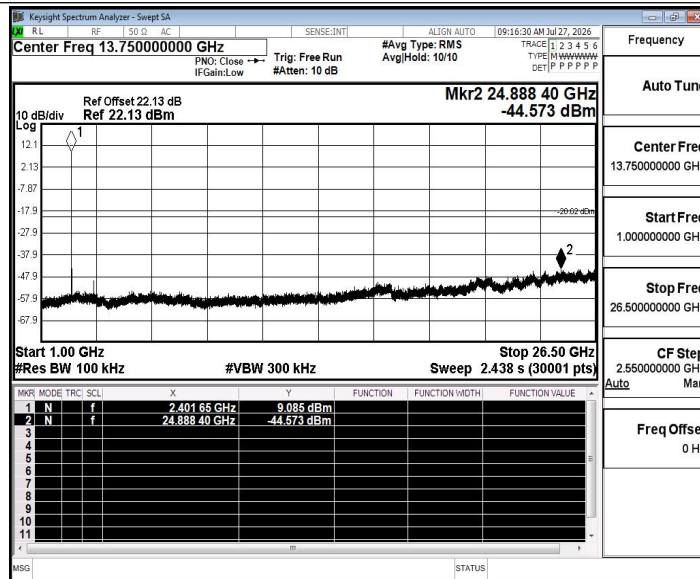
BLE_1M_Ant1_2402_0~Reference



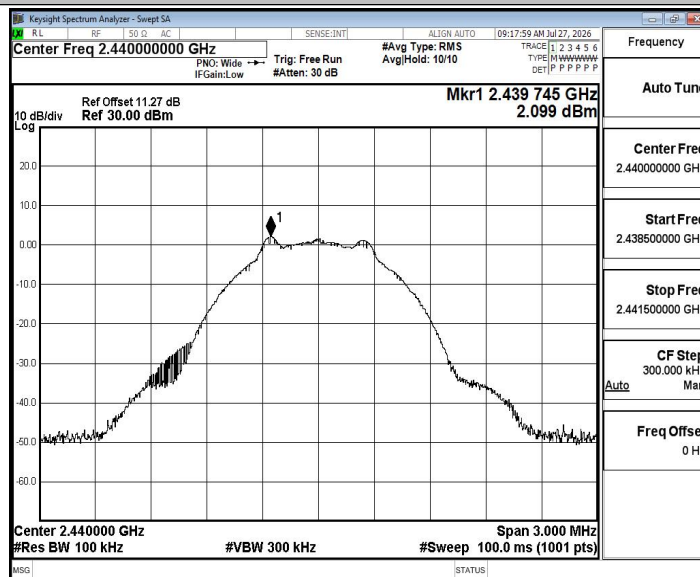
BLE_1M_Ant1_2402_30~1000



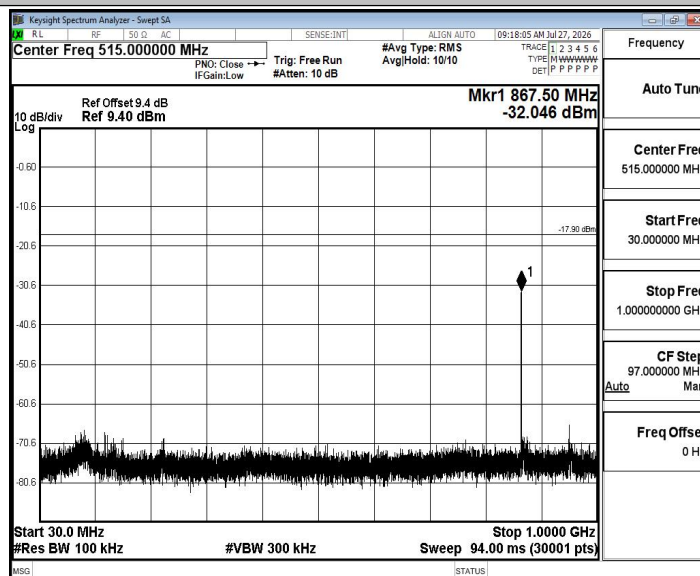
BLE_1M_Ant1_2402_1000~26500



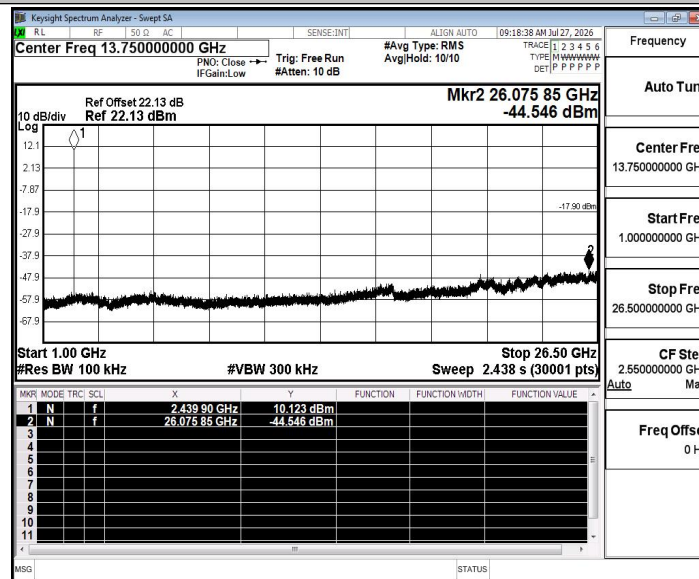
BLE_1M_Ant1_2440_0~Reference



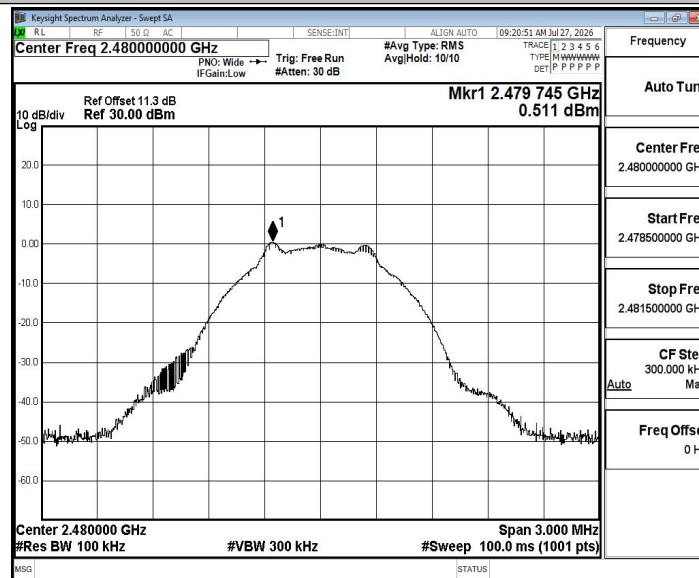
BLE_1M_Ant1_2440_30~1000



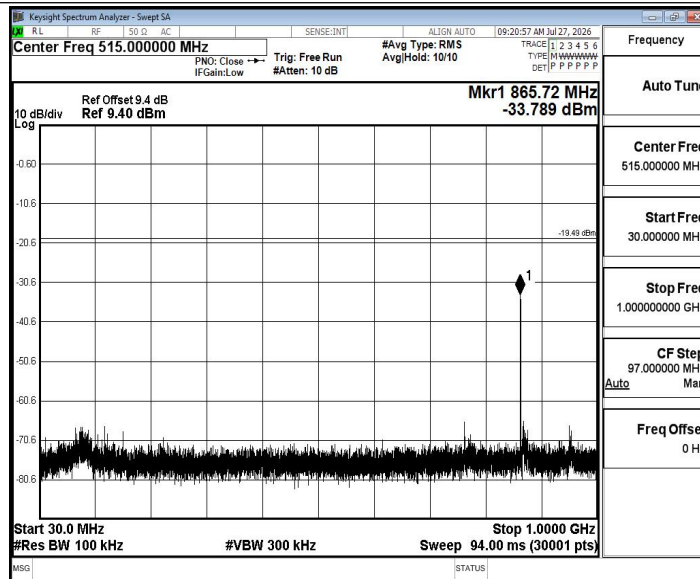
BLE_1M_Ant1_2440_1000~26500



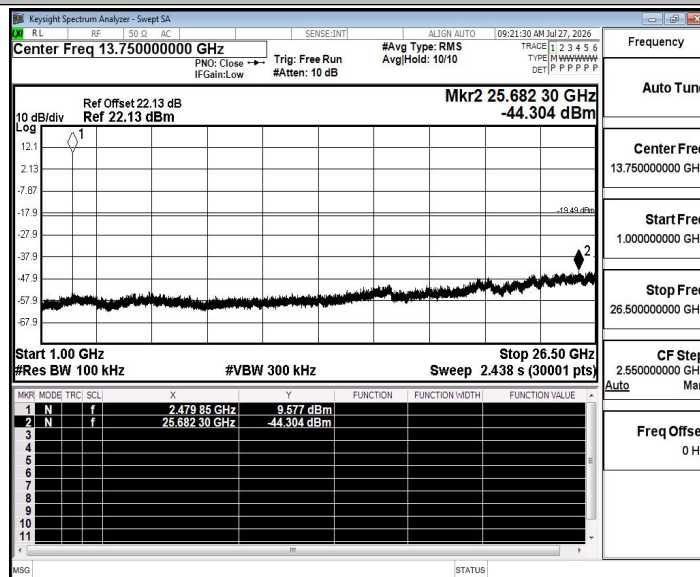
BLE_1M_Ant1_2480_0~Reference



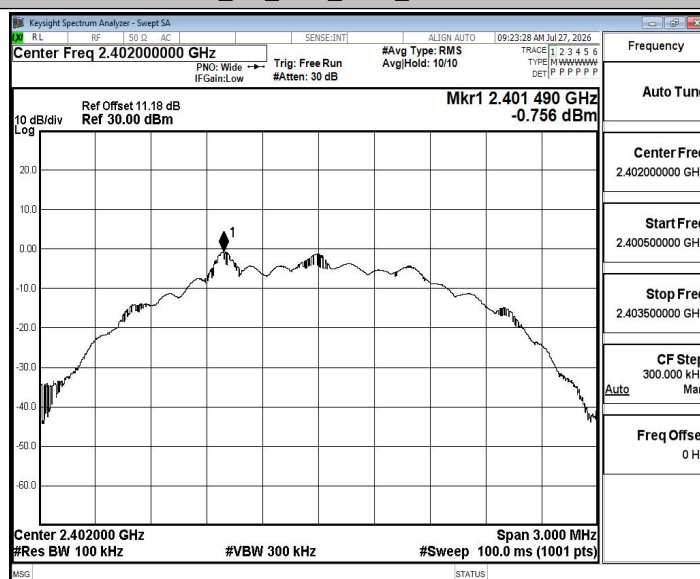
BLE_1M_Ant1_2480_30~1000

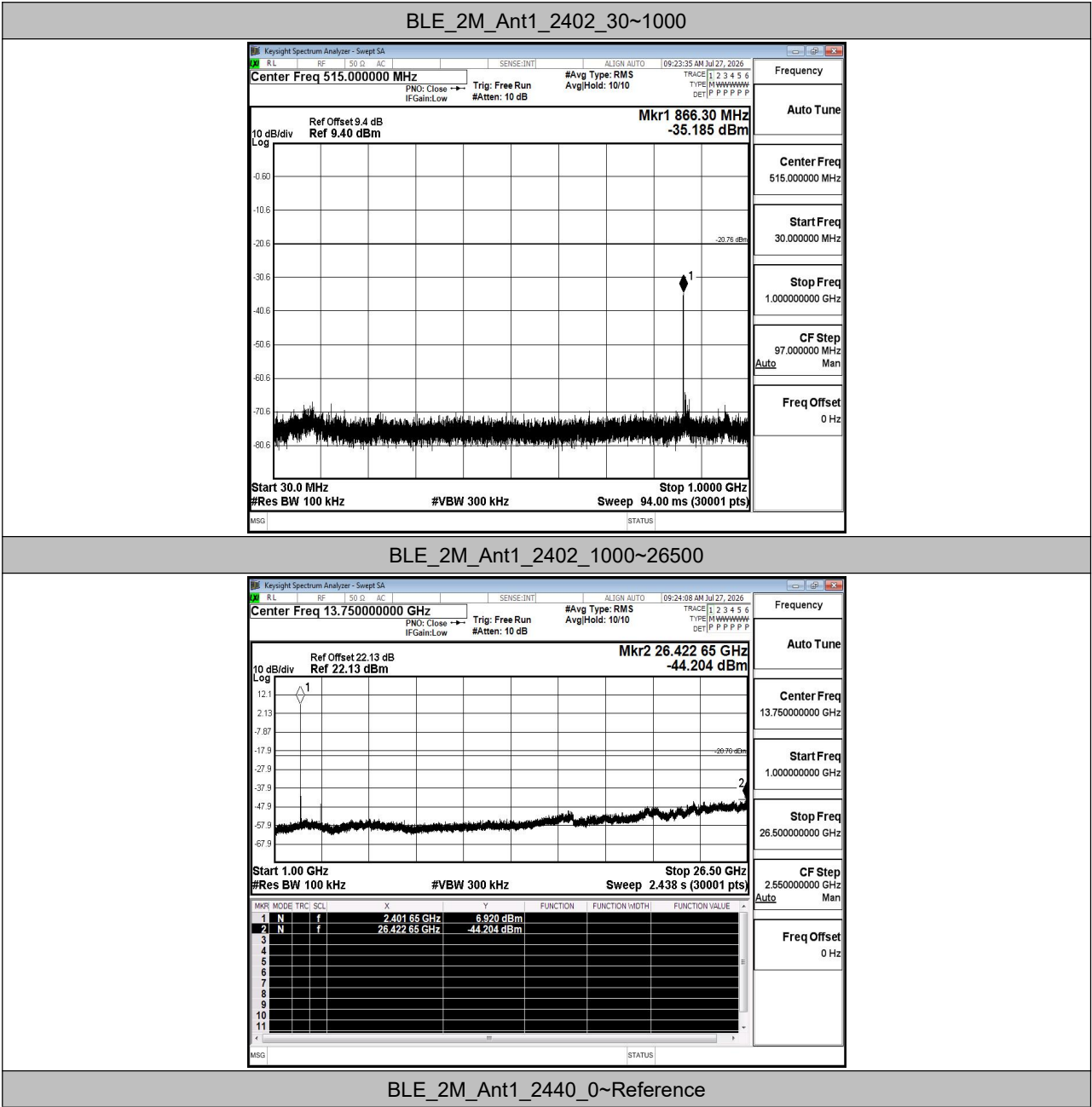


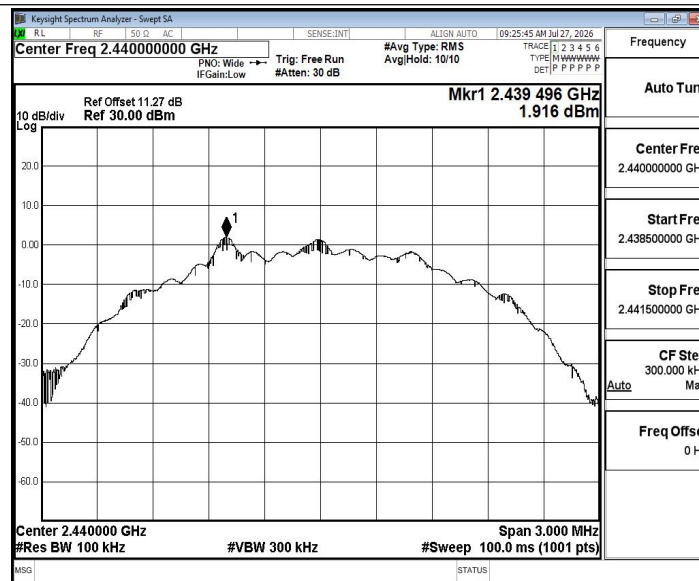
BLE_1M_Ant1_2480_1000~26500



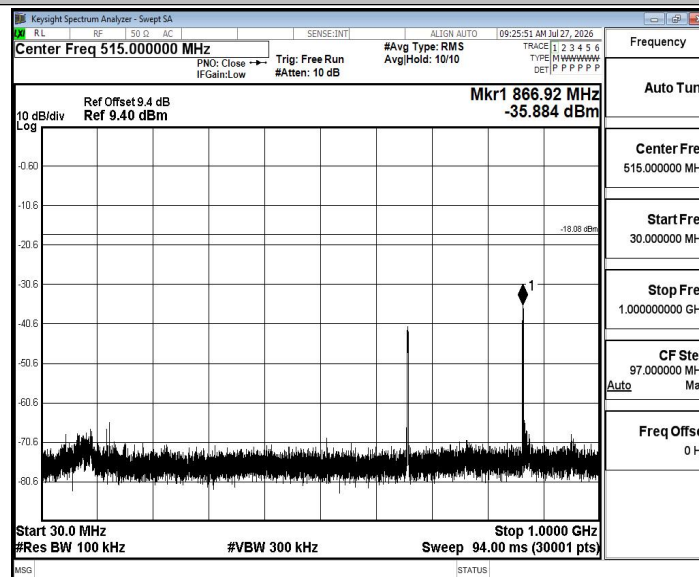
BLE_2M_Ant1_2402_0~Reference



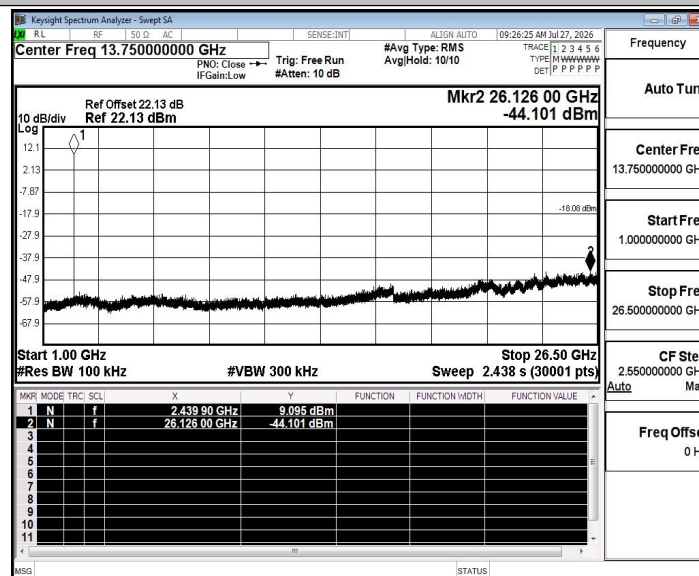




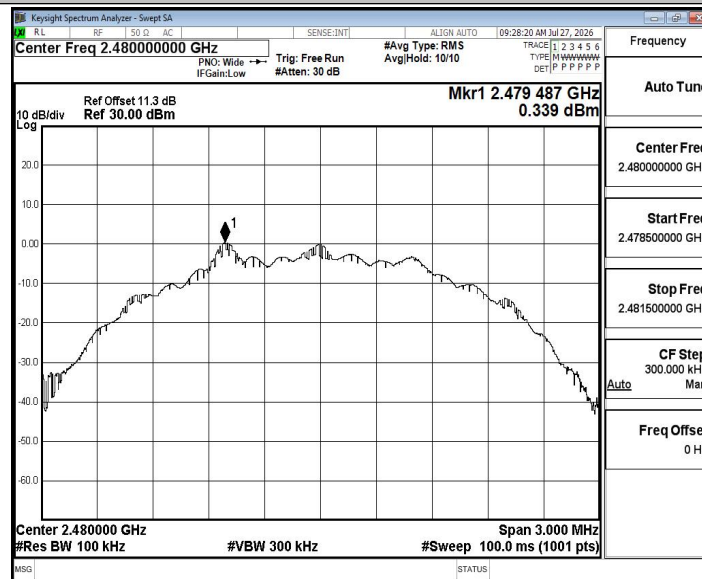
BLE_2M_Ant1_2440_30~1000



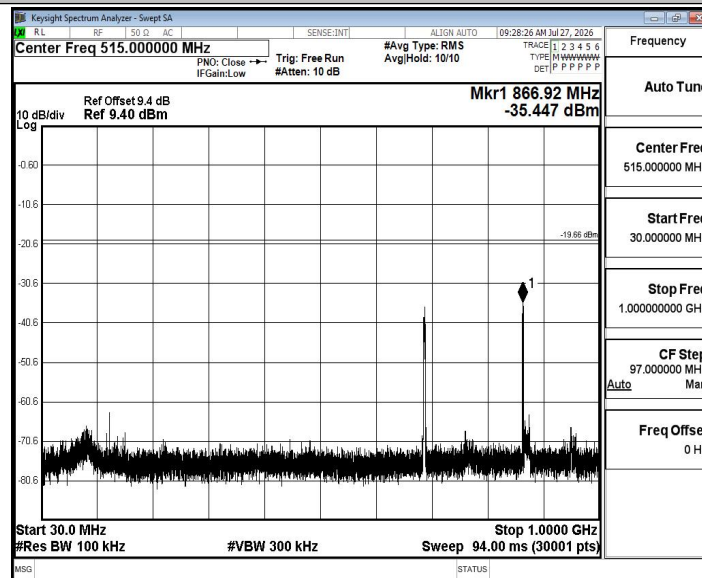
BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500