

Test Data Appendix For BLE

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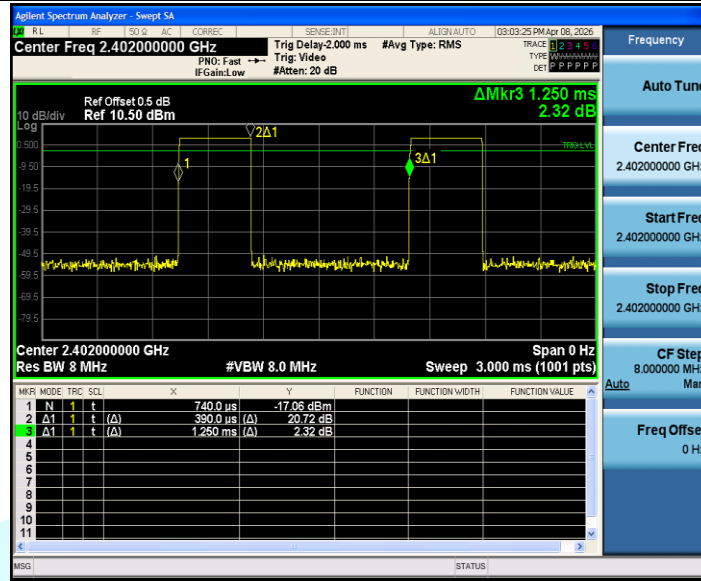
Duty Cycle

Test Mode	Antenna	Frequency (MHz)	ON Time [ms]	Period [ms]	X	DC [%]	X Factor
BLE_1M	Ant1	2402	0.39	1.25	0.3120	31.20	5.06
		2440	0.39	1.25	0.3120	31.20	5.06
		2480	0.39	1.25	0.3120	31.20	5.06

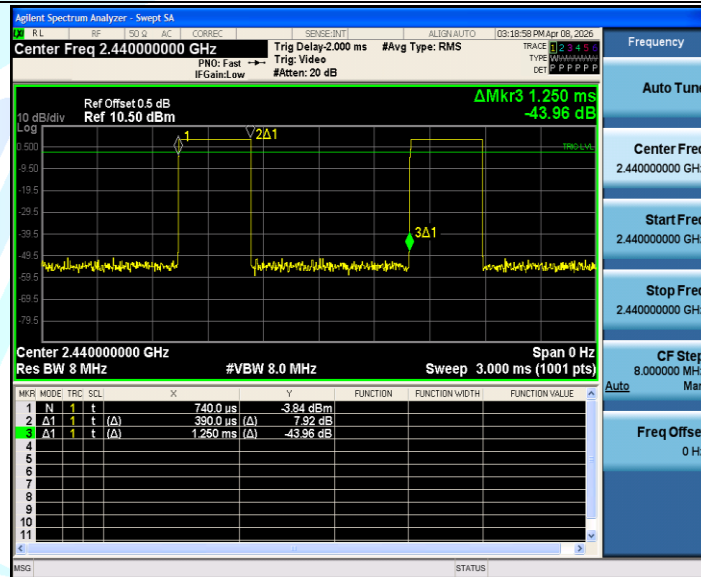


Test Graphs

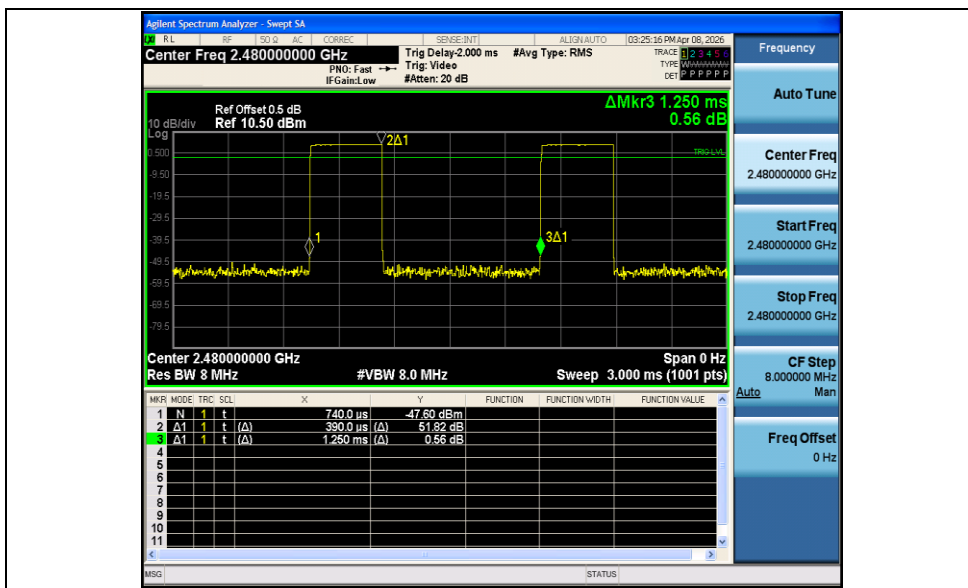
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



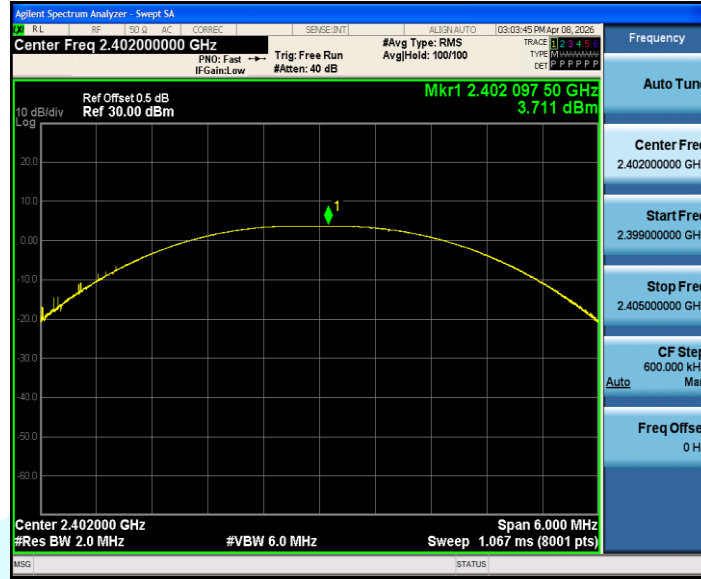
Maximum Peak Conducted Output Power

Test Mode	Antenna	Frequency (MHz)	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	3.71	≤30	PASS
		2440	4.13	≤30	PASS
		2480	4.24	≤30	PASS

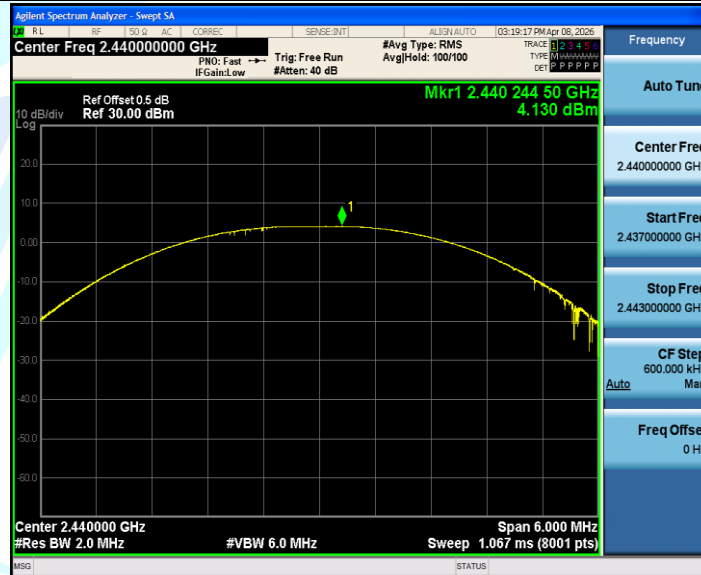


Test Graphs

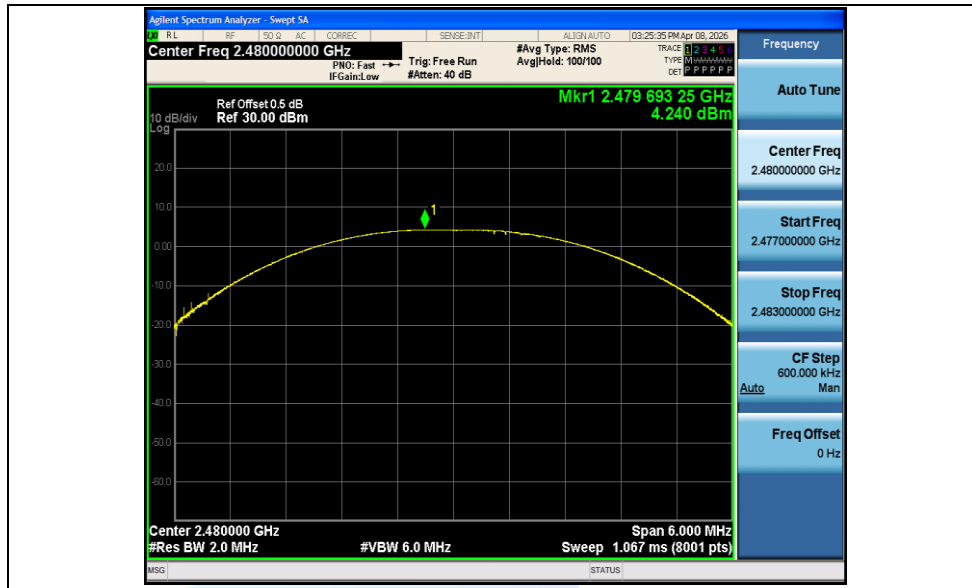
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



-6dB Emission Bandwidth

Test Mode	Antenna	Frequency (MHz)	DTS BW [MHz]	FL[MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.656	2402.324	0.5	PASS
		2440	0.640	2439.672	2440.312	0.5	PASS
		2480	0.684	2479.640	2480.324	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



Occupied Bandwidth

Test Mode	Antenna	Frequency (MHz)	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0332	2401.4730	2402.5062	---	---
		2440	1.0218	2439.4809	2440.5027	---	---
		2480	1.0187	2479.4796	2480.4983	---	---



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



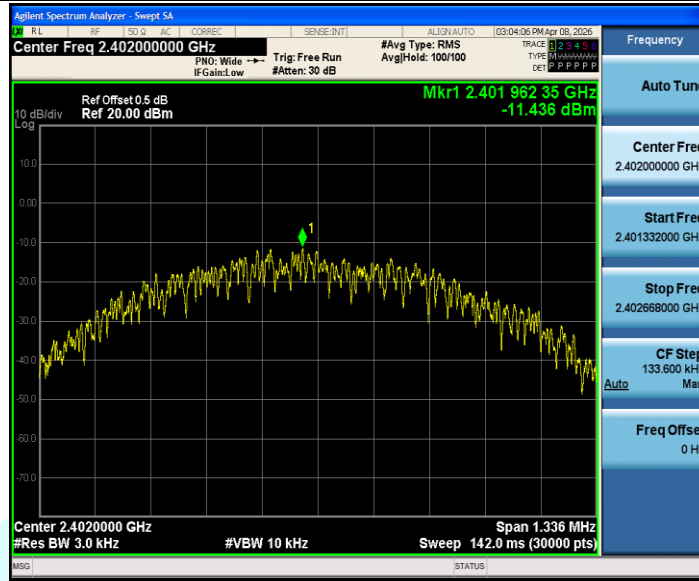
Power Spectral Density

Test Mode	Antenna	Frequency (MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.44	≤8.00	PASS
		2440	-11.27	≤8.00	PASS
		2480	-11.10	≤8.00	PASS

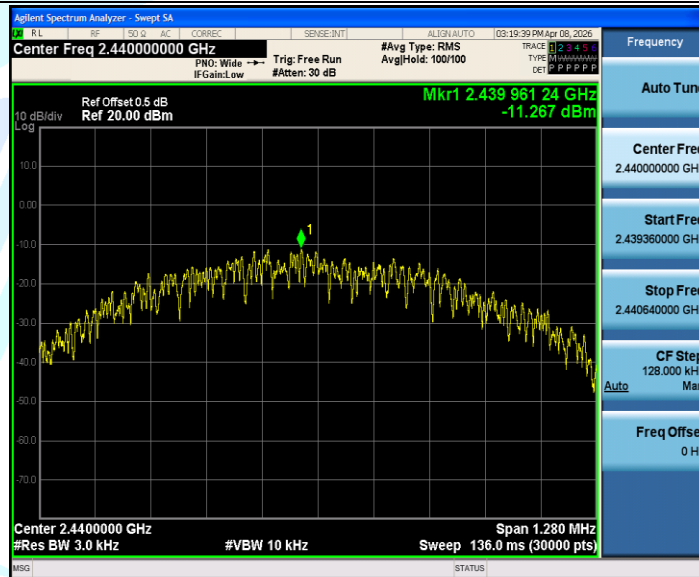


Test Graphs

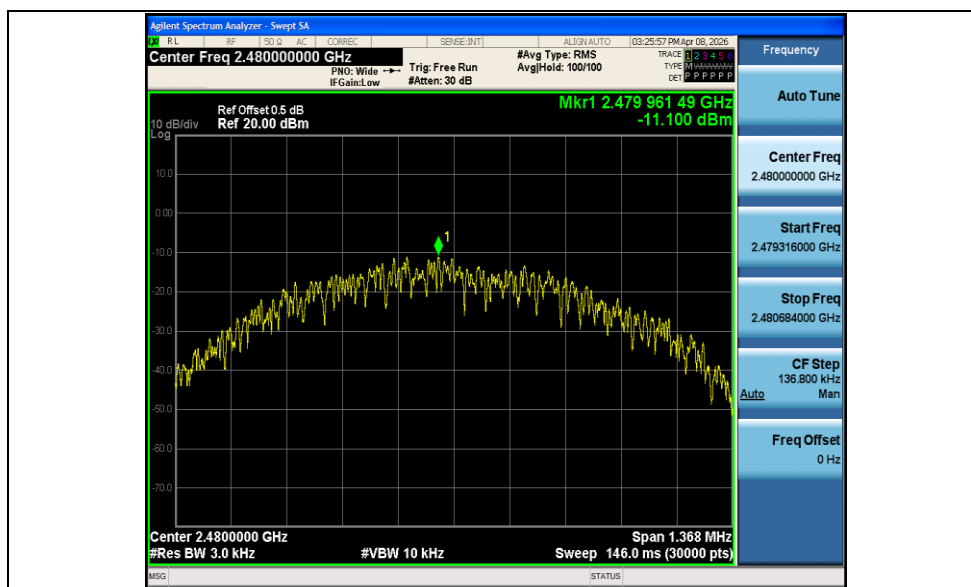
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



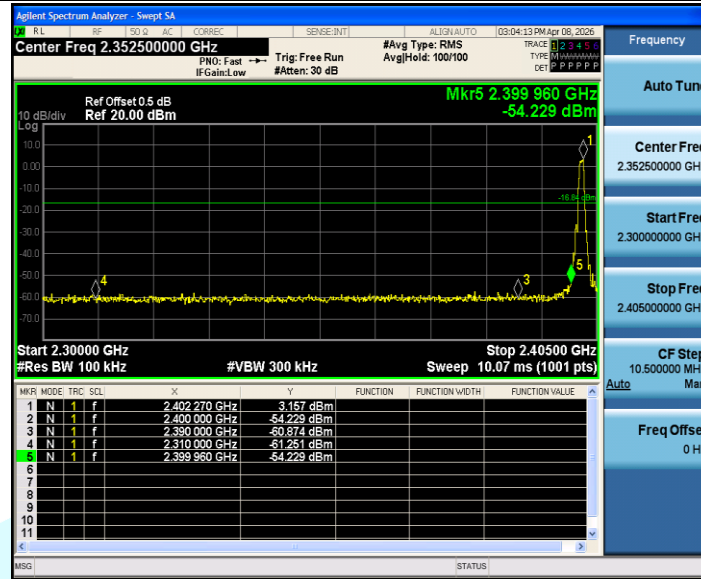
Band-edge Emission

Test Mode	Antenna	Ch Name	Frequency (MHz)	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.16	-54.23	≤-16.84	PASS
		High	2480	3.62	-52.85	≤-16.38	PASS

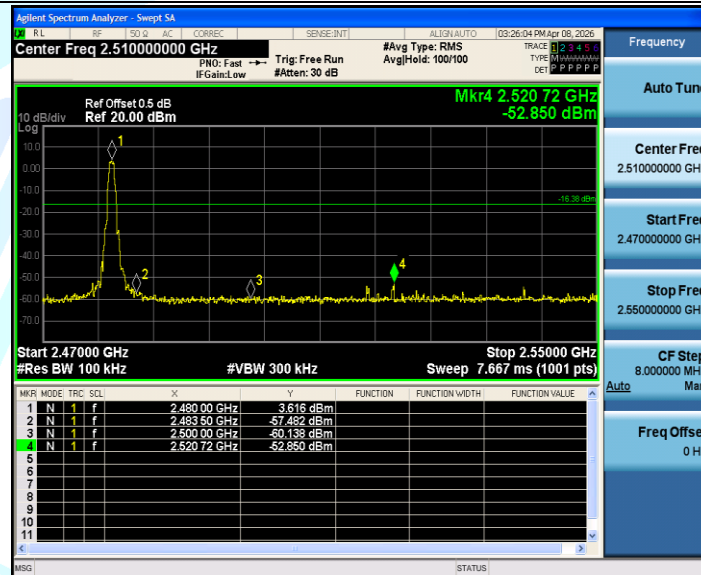


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



Conducted Spurious Emission

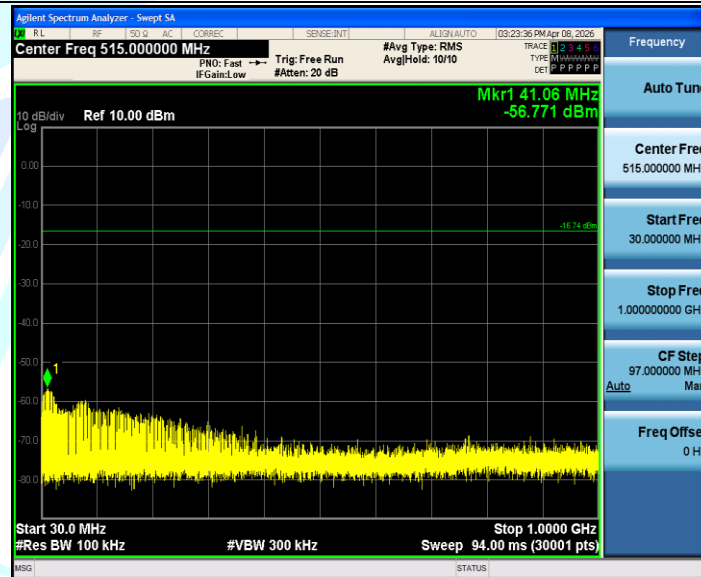
Test Mode	Antenna	Frequency (MHz)	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.26	3.26	---	PASS
			30~1000	3.26	-56.77	≤-16.74	PASS
			1000~26500	3.26	-43.49	≤-16.74	PASS
		2440	Reference	3.75	3.75	---	PASS
			30~1000	3.75	-55.39	≤-16.25	PASS
			1000~26500	3.75	-44.12	≤-16.25	PASS
		2480	Reference	3.84	3.84	---	PASS
			30~1000	3.84	-56.64	≤-16.16	PASS
			1000~26500	3.84	-44.7	≤-16.16	PASS

Test Graphs

BLE_1M_Ant1_2402_0~Reference



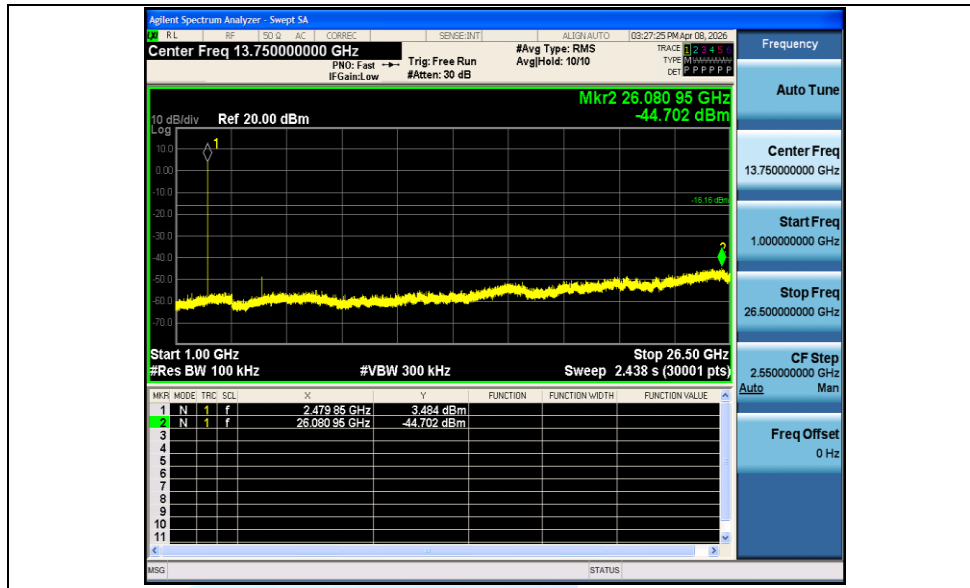
BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500







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