

Test Data Appendix For BLE

Table of Contents

Table of Contents	2
Duty Cycle.....	3
Maximum Peak Conducted Output Power	7
-6dB Emission Bandwidth	11
Occupied Bandwidth.....	15
Power Spectral Density	19
Band-edge Emission.....	23
Conducted Spurious Emission	26



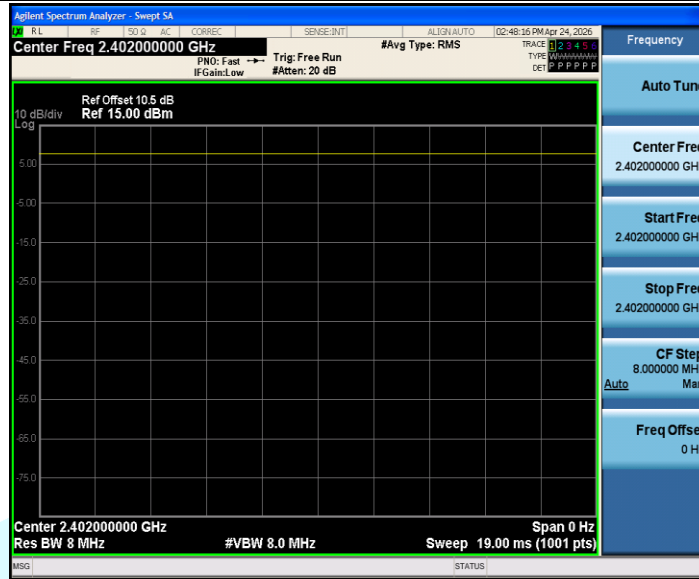
Duty Cycle

Test Mode	Antenna	Frequency (MHz)	ON Time [ms]	Period [ms]	X	DC [%]	X Factor
BLE_1M	Ant1	2402	0.00	0.00	NaN	100	NaN
		2440	0.00	0.00	NaN	100	NaN
		2480	0.00	0.00	NaN	100	NaN
BLE_2M	Ant1	2402	0.00	0.00	NaN	100	NaN
		2440	0.00	0.00	NaN	100	NaN
		2480	0.00	0.00	NaN	100	NaN

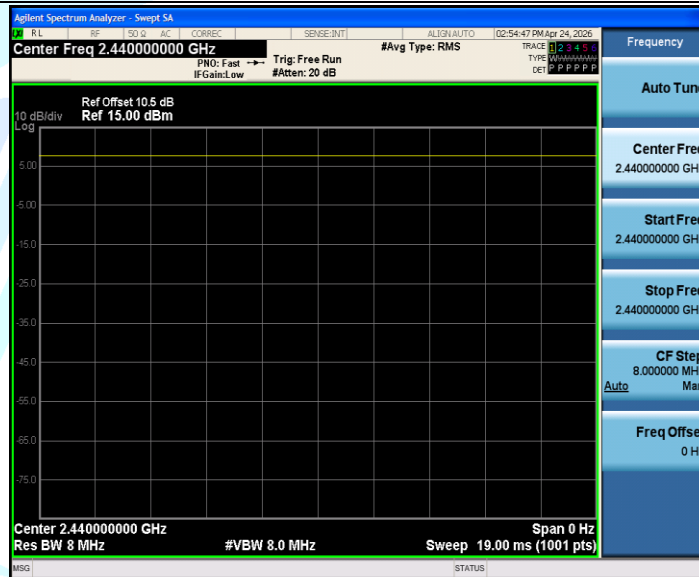


Test Graphs

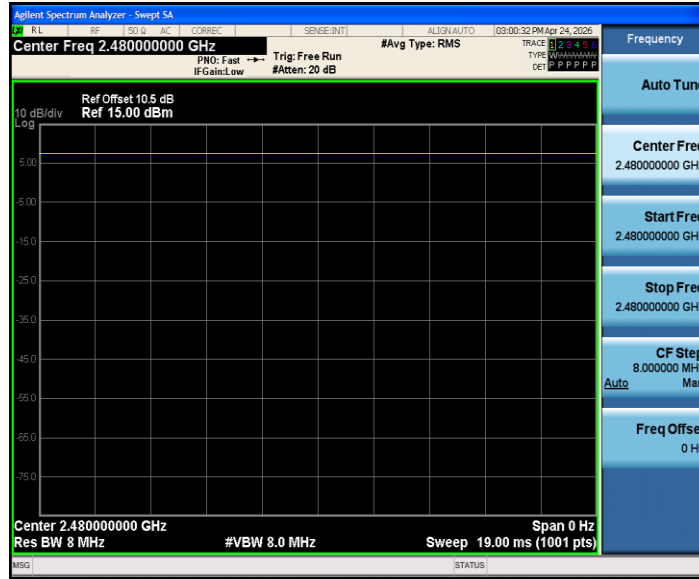
BLE_1M_Ant1_2402



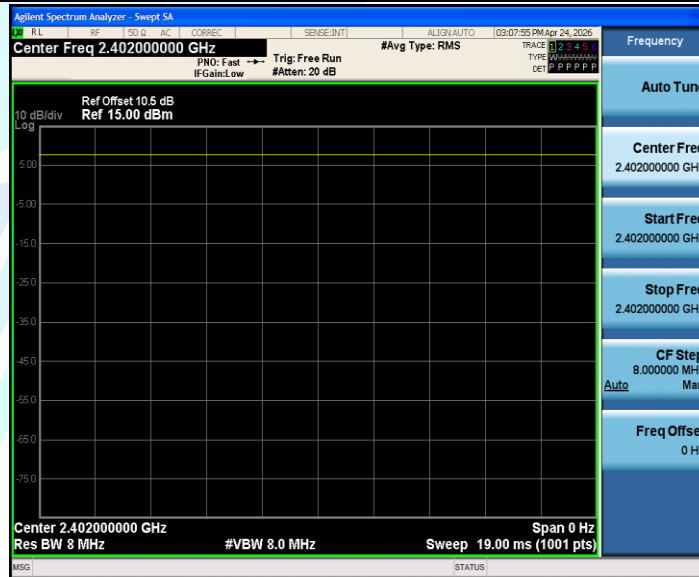
BLE_1M_Ant1_2440



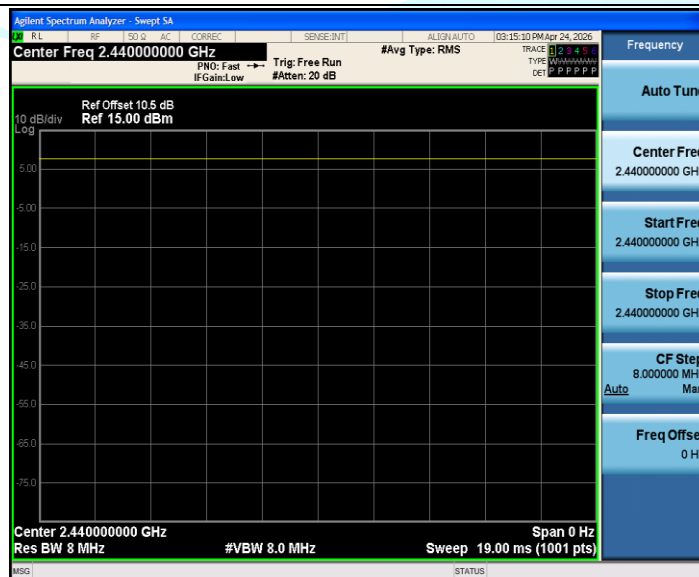
BLE_1M_Ant1_2480



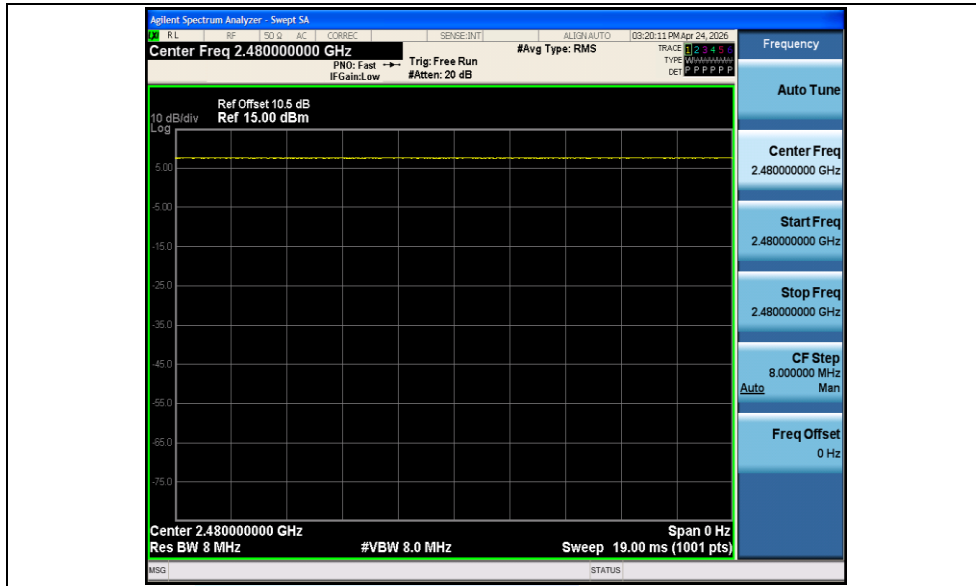
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



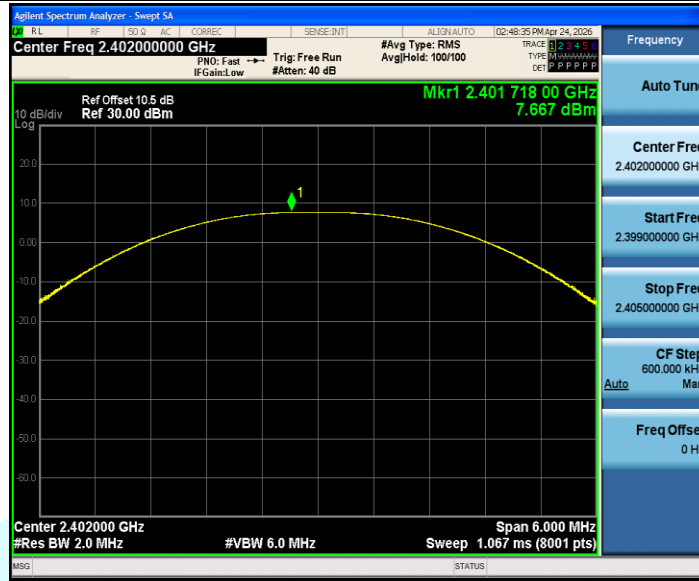
Maximum Peak Conducted Output Power

Test Mode	Antenna	Frequency (MHz)	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	7.67	≤30	PASS
		2440	7.62	≤30	PASS
		2480	7.57	≤30	PASS
BLE_2M	Ant1	2402	7.63	≤30	PASS
		2440	7.56	≤30	PASS
		2480	7.54	≤30	PASS

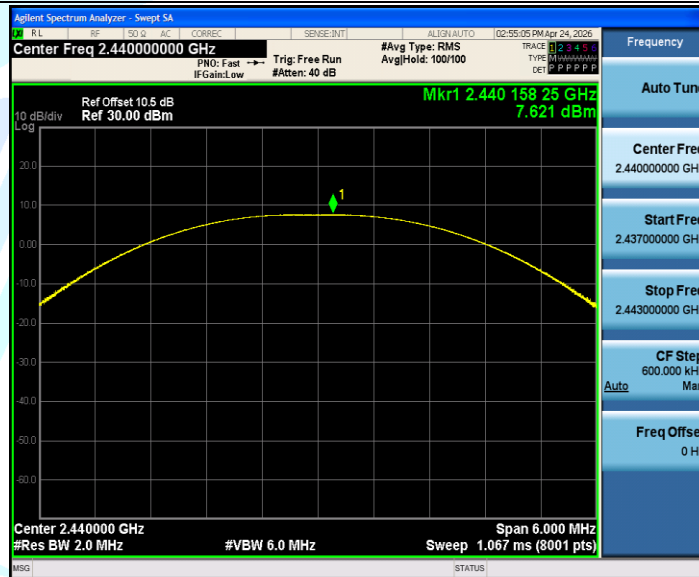


Test Graphs

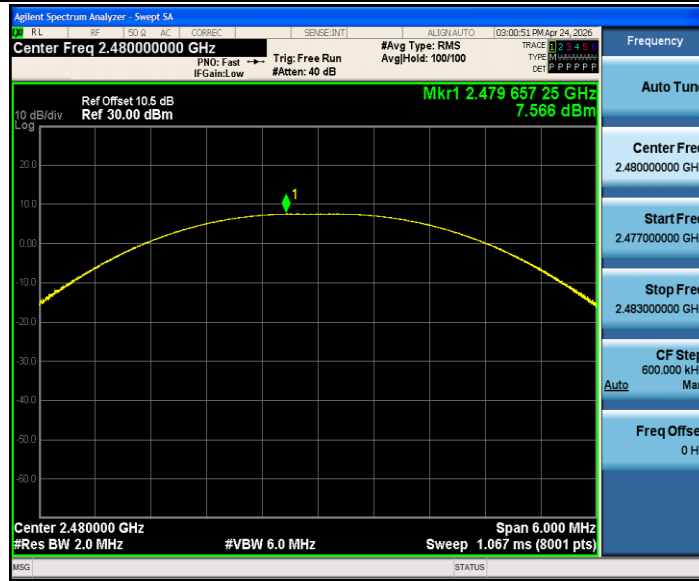
BLE_1M_Ant1_2402



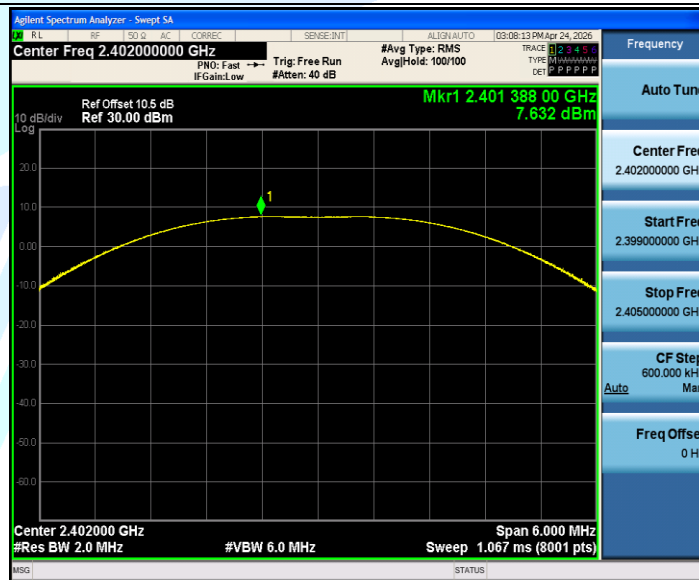
BLE_1M_Ant1_2440



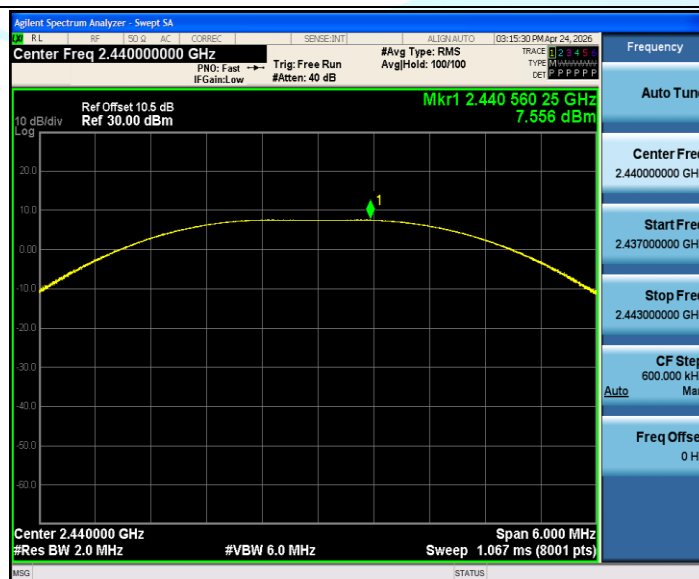
BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



-6dB Emission Bandwidth

Test Mode	Antenna	Frequency (MHz)	DTS BW [MHz]	FL[MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.708	2401.628	2402.336	0.5	PASS
		2440	0.696	2439.636	2440.332	0.5	PASS
		2480	0.720	2479.620	2480.340	0.5	PASS
BLE_2M	Ant1	2402	1.328	2401.324	2402.652	0.5	PASS
		2440	1.332	2439.316	2440.648	0.5	PASS
		2480	1.304	2479.352	2480.656	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



BLE_2M_Ant1_2480



Occupied Bandwidth

Test Mode	Antenna	Frequency (MHz)	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0281	2401.4725	2402.5006	---	---
		2440	1.0274	2439.4709	2440.4983	---	---
		2480	1.0328	2479.4694	2480.5022	---	---
BLE_2M	Ant1	2402	2.1155	2400.9409	2403.0564	---	---
		2440	2.1175	2438.9402	2441.0577	---	---
		2480	2.1248	2478.9338	2481.0586	---	---



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



Power Spectral Density

Test Mode	Antenna	Frequency (MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.25	≤8.00	PASS
		2440	-8.27	≤8.00	PASS
		2480	-8.31	≤8.00	PASS
BLE_2M	Ant1	2402	-10.07	≤8.00	PASS
		2440	-10.11	≤8.00	PASS
		2480	-10.18	≤8.00	PASS



Test Graphs

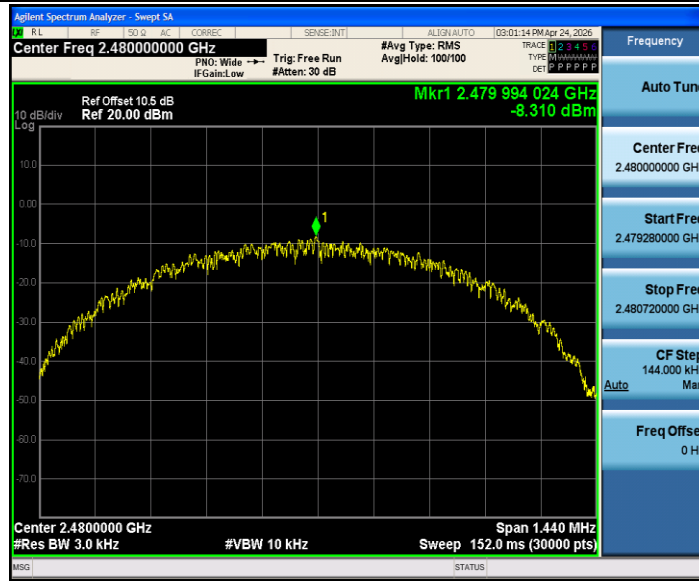
BLE_1M_Ant1_2402



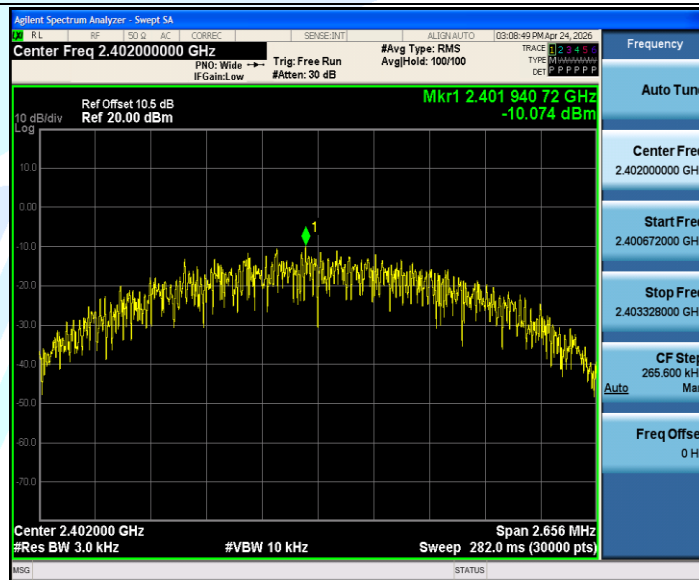
BLE_1M_Ant1_2440



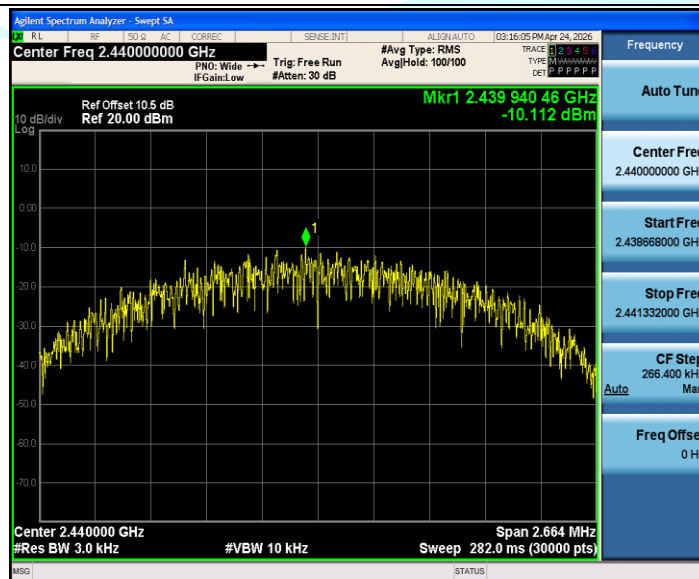
BLE_1M_Ant1_2480



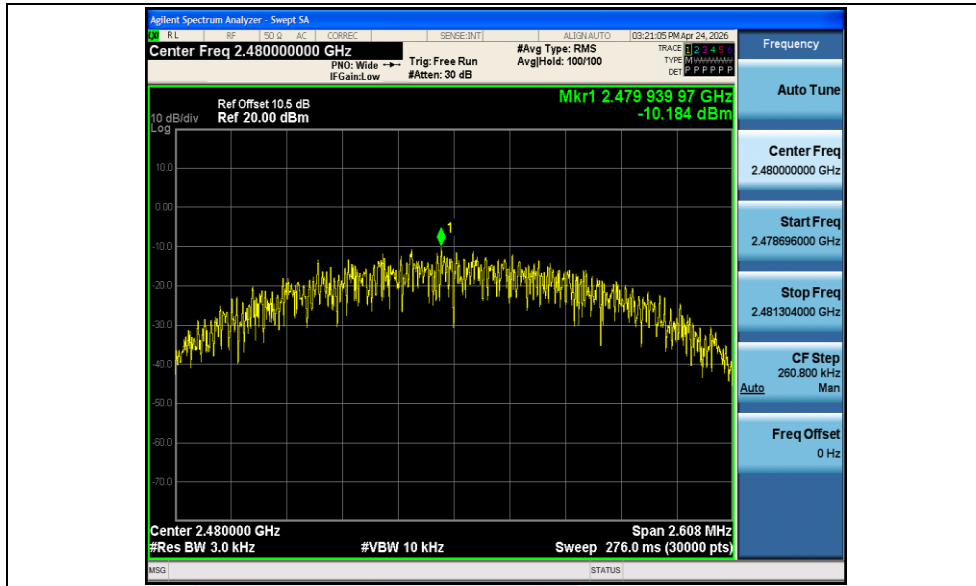
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



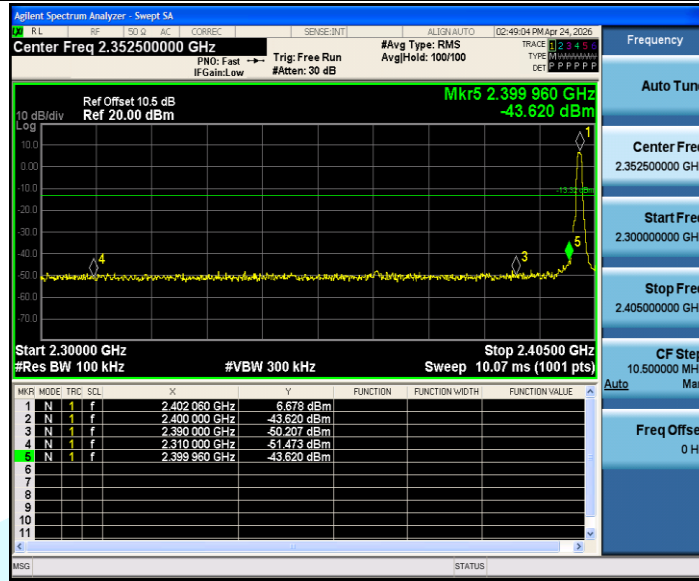
Band-edge Emission

Test Mode	Antenna	Ch Name	Frequency (MHz)	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.68	-43.62	≤ -13.32	PASS
		High	2480	6.76	-45.13	≤ -13.24	PASS
BLE_2M	Ant1	Low	2402	4.40	-27.4	≤ -15.60	PASS
		High	2480	4.98	-45.51	≤ -15.02	PASS

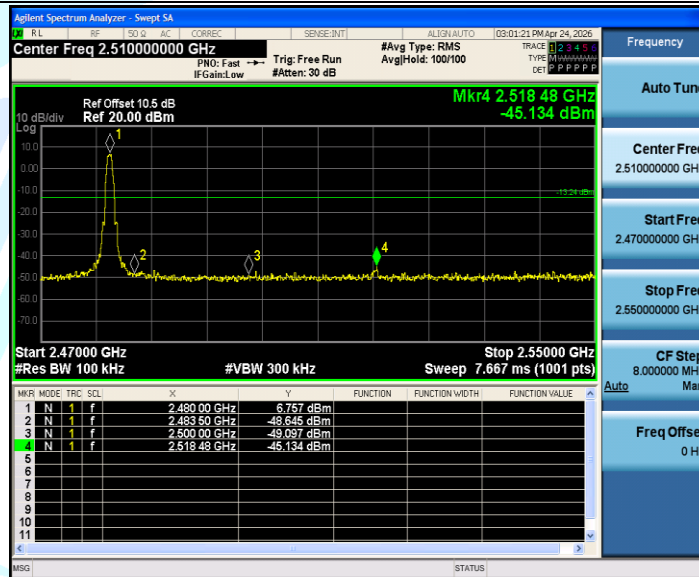


Test Graphs

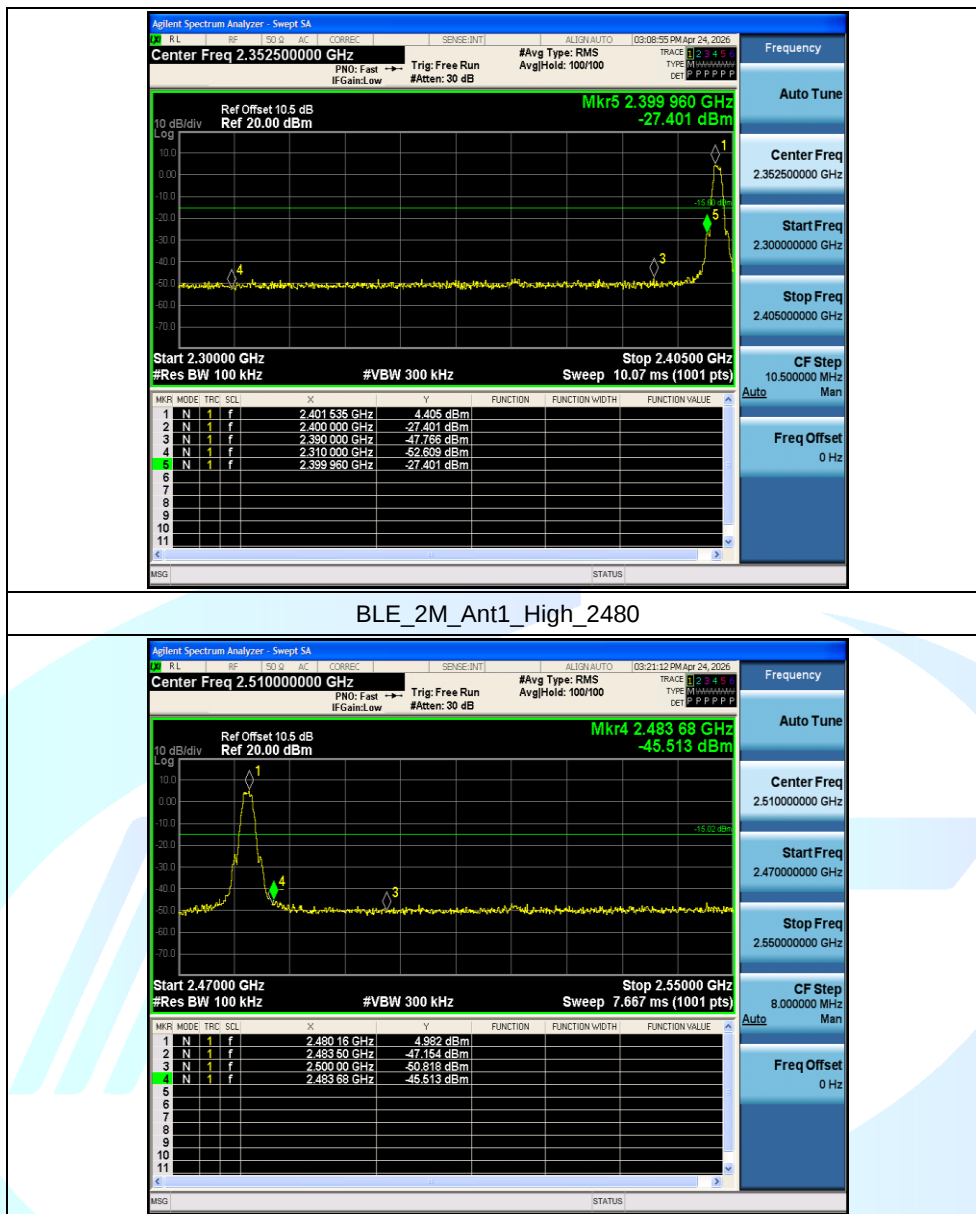
BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402



Conducted Spurious Emission

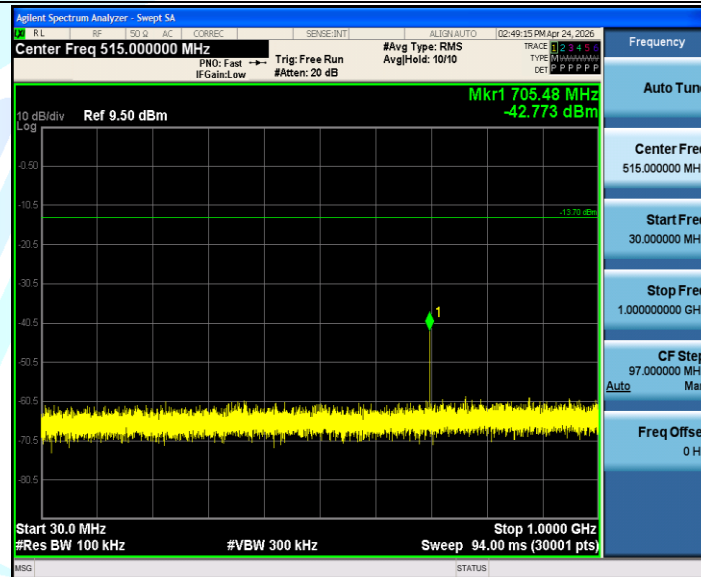
Test Mode	Antenna	Frequency (MHz)	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	6.30	6.30	---	PASS
			30~1000	6.30	-42.77	≤ -13.7	PASS
			1000~26500	6.30	-34.3	≤ -13.7	PASS
		2440	Reference	6.39	6.39	---	PASS
			30~1000	6.39	-59.34	≤ -13.61	PASS
			1000~26500	6.39	-34.3	≤ -13.61	PASS
		2480	Reference	5.65	5.65	---	PASS
			30~1000	5.65	-58.34	≤ -14.35	PASS
			1000~26500	5.65	-34.57	≤ -14.35	PASS
BLE_2M	Ant1	2402	Reference	4.14	4.14	---	PASS
			30~1000	4.14	-59.72	≤ -15.86	PASS
			1000~26500	4.14	-33.8	≤ -15.86	PASS
		2440	Reference	3.77	3.77	---	PASS
			30~1000	3.77	-59.49	≤ -16.23	PASS
			1000~26500	3.77	-34.78	≤ -16.23	PASS
		2480	Reference	4.46	4.46	---	PASS
			30~1000	4.46	-59.26	≤ -15.54	PASS
			1000~26500	4.46	-34.61	≤ -15.54	PASS

Test Graphs

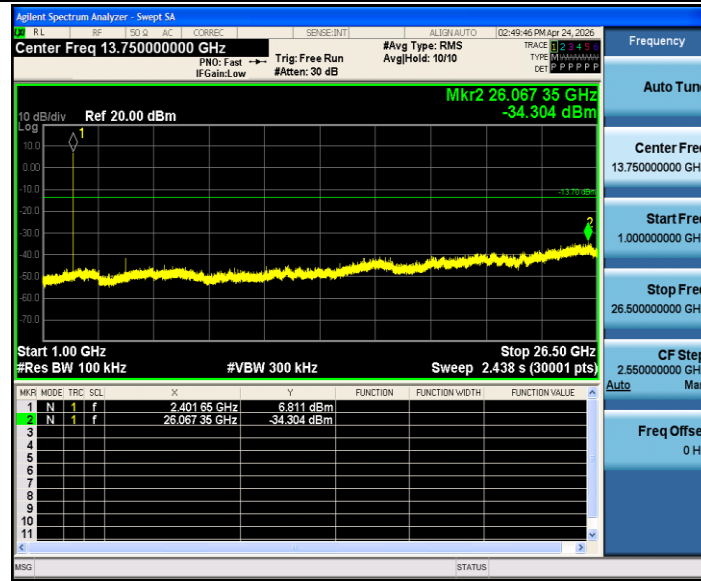
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



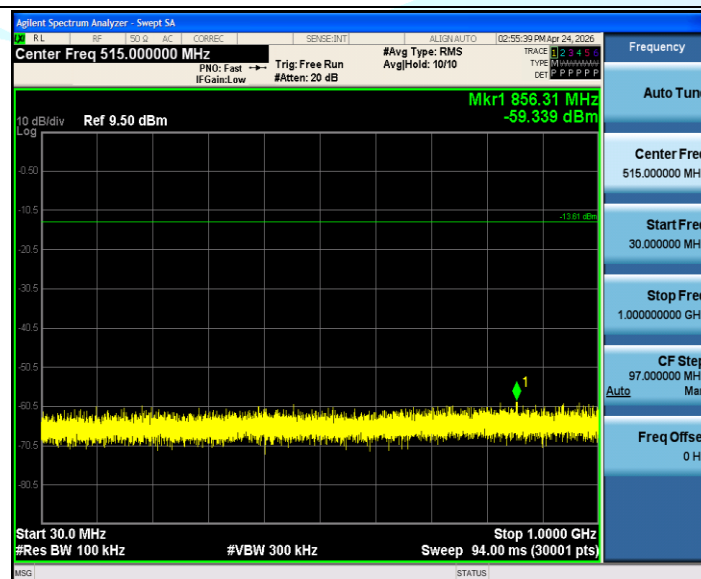
BLE_1M_Ant1_2402_1000~26500



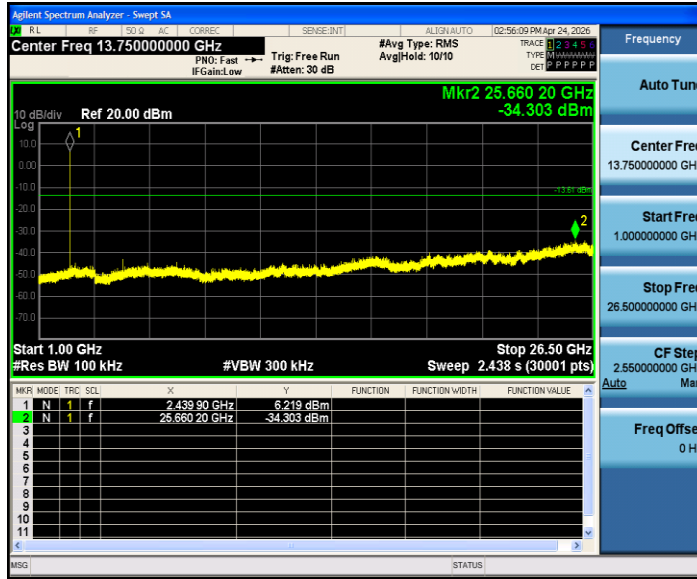
BLE_1M_Ant1_2440_0-Reference



BLE_1M_Ant1_2440_30~1000



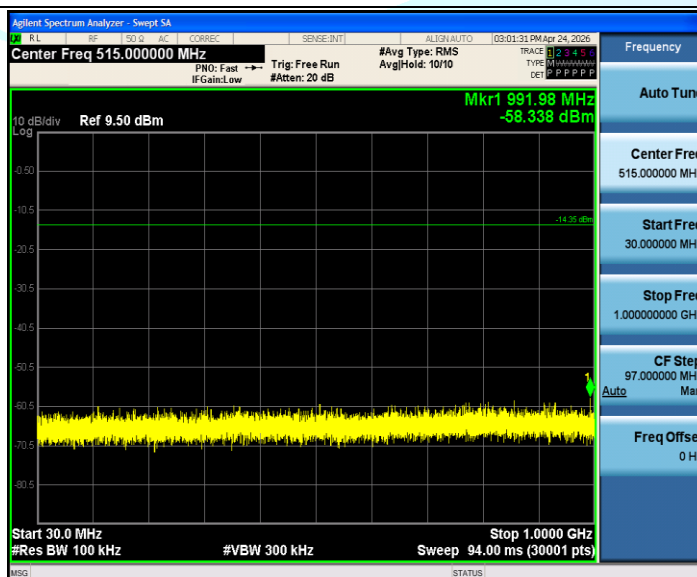
BLE_1M_Ant1_2440_1000~26500



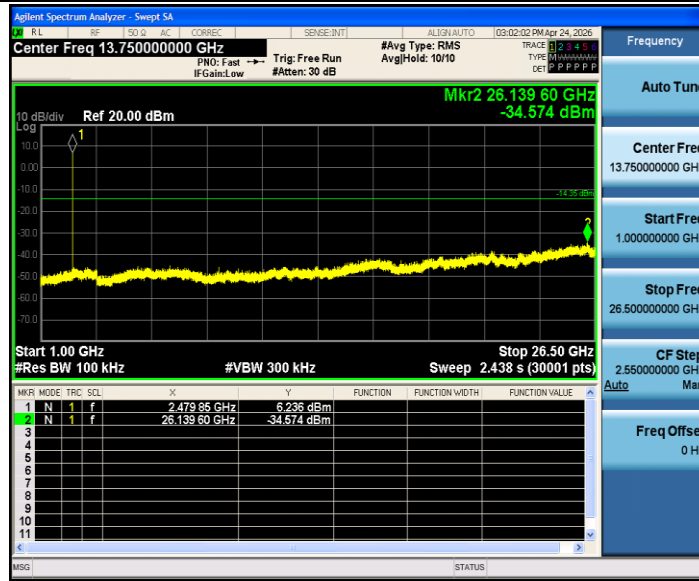
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



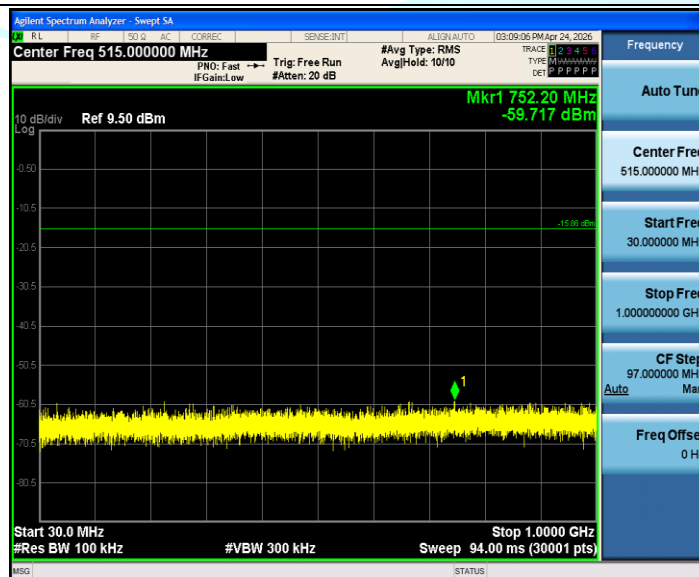
BLE_1M_Ant1_2480_1000~26500



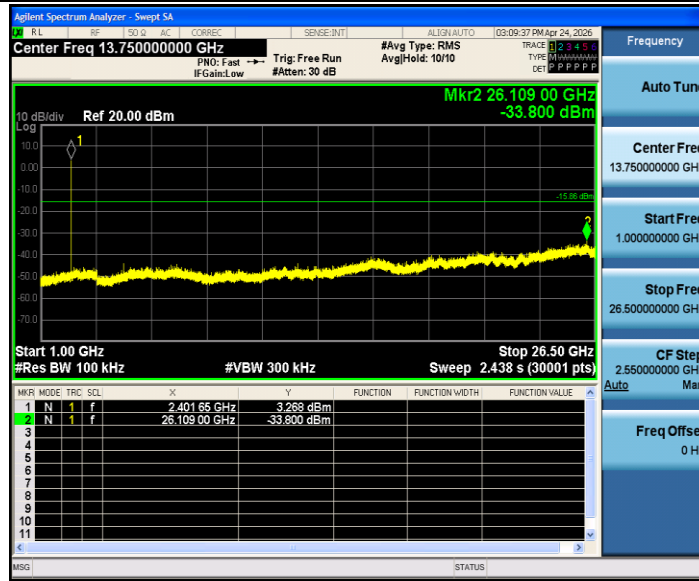
BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000



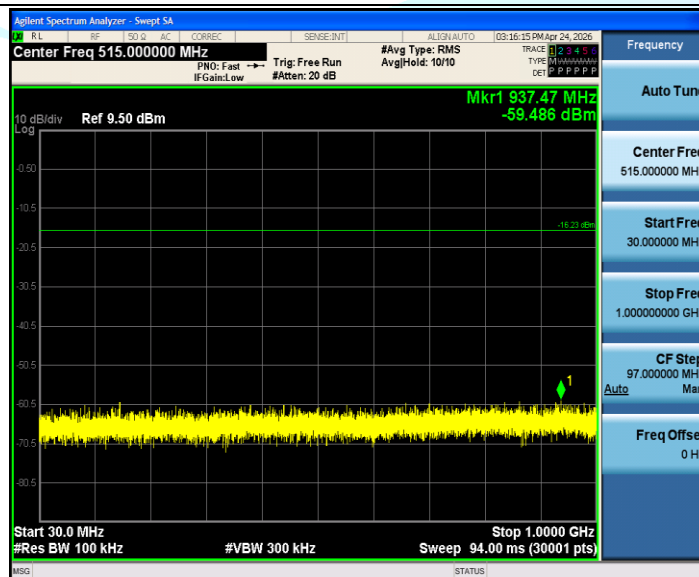
BLE_2M_Ant1_2402_1000~26500



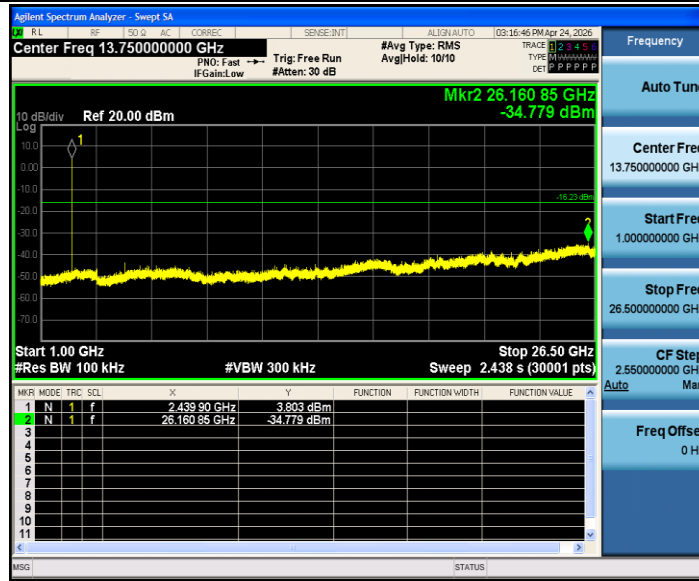
BLE_2M_Ant1_2440_0-Reference



BLE_2M_Ant1_2440_30-1000



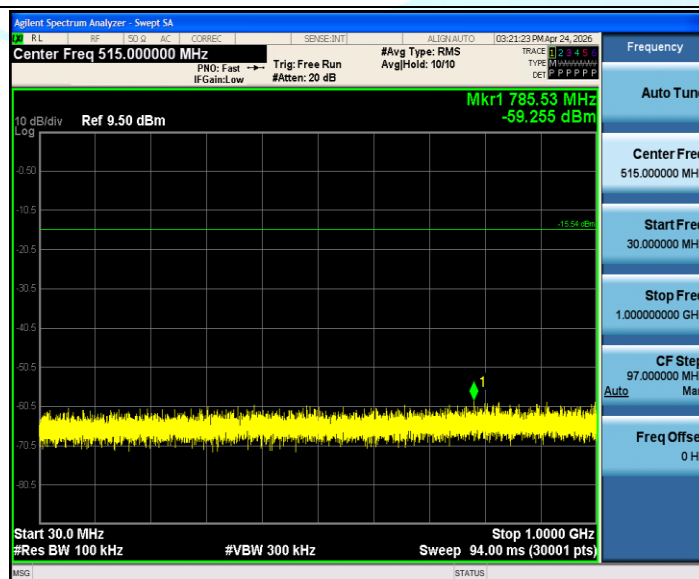
BLE_2M_Ant1_2440_1000-26500



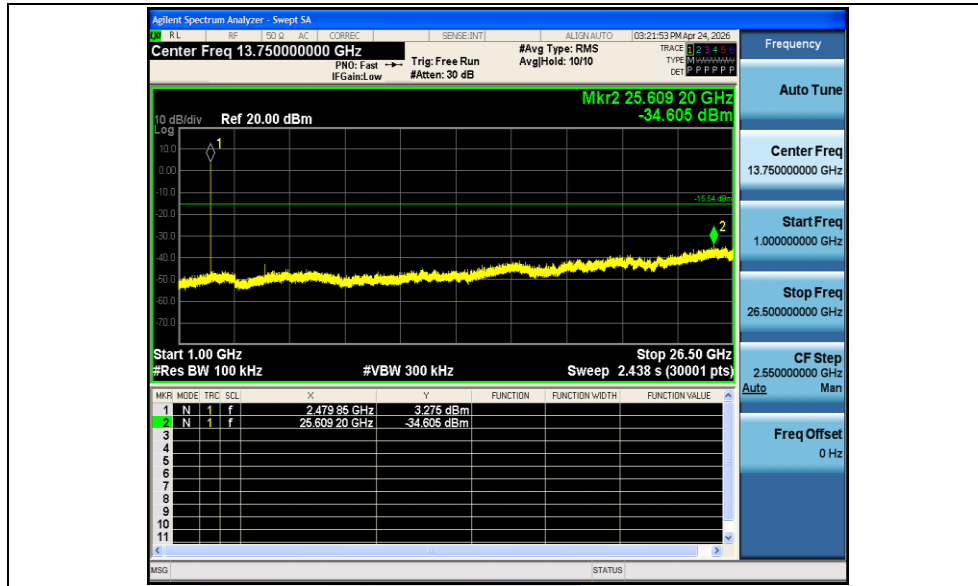
BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500



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