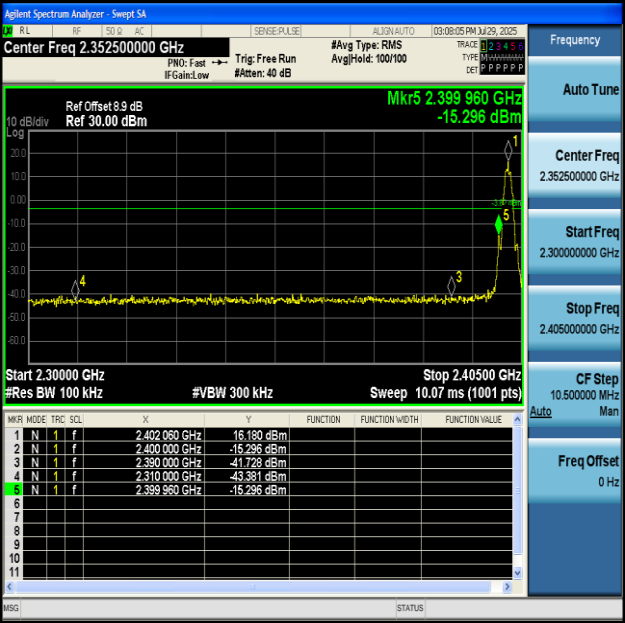
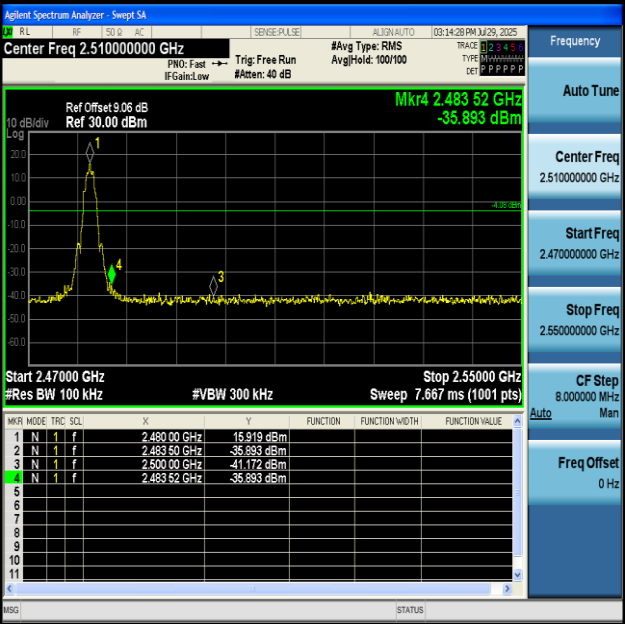
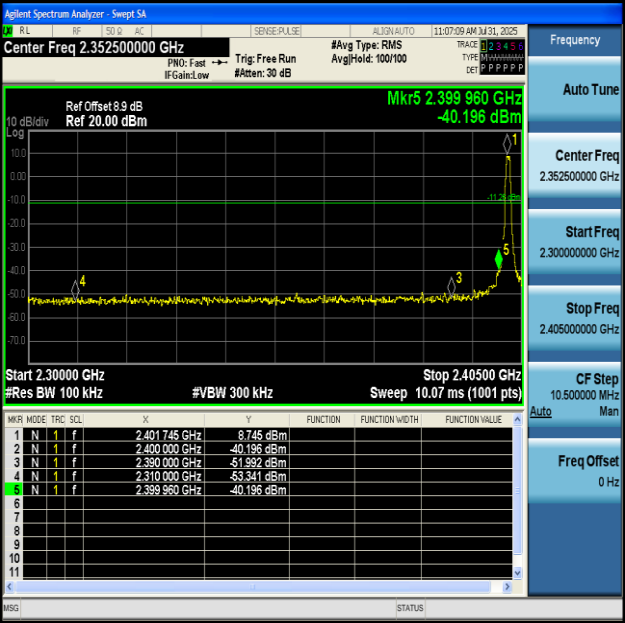




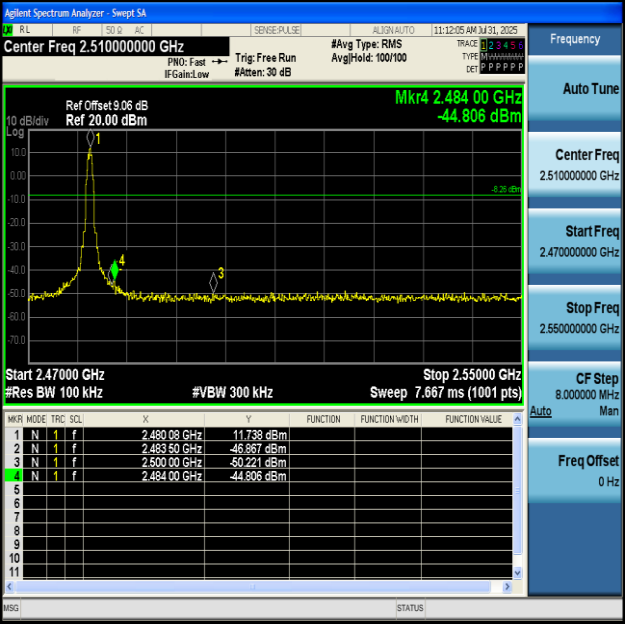
BLE_2M-Ant1-2402-PASS



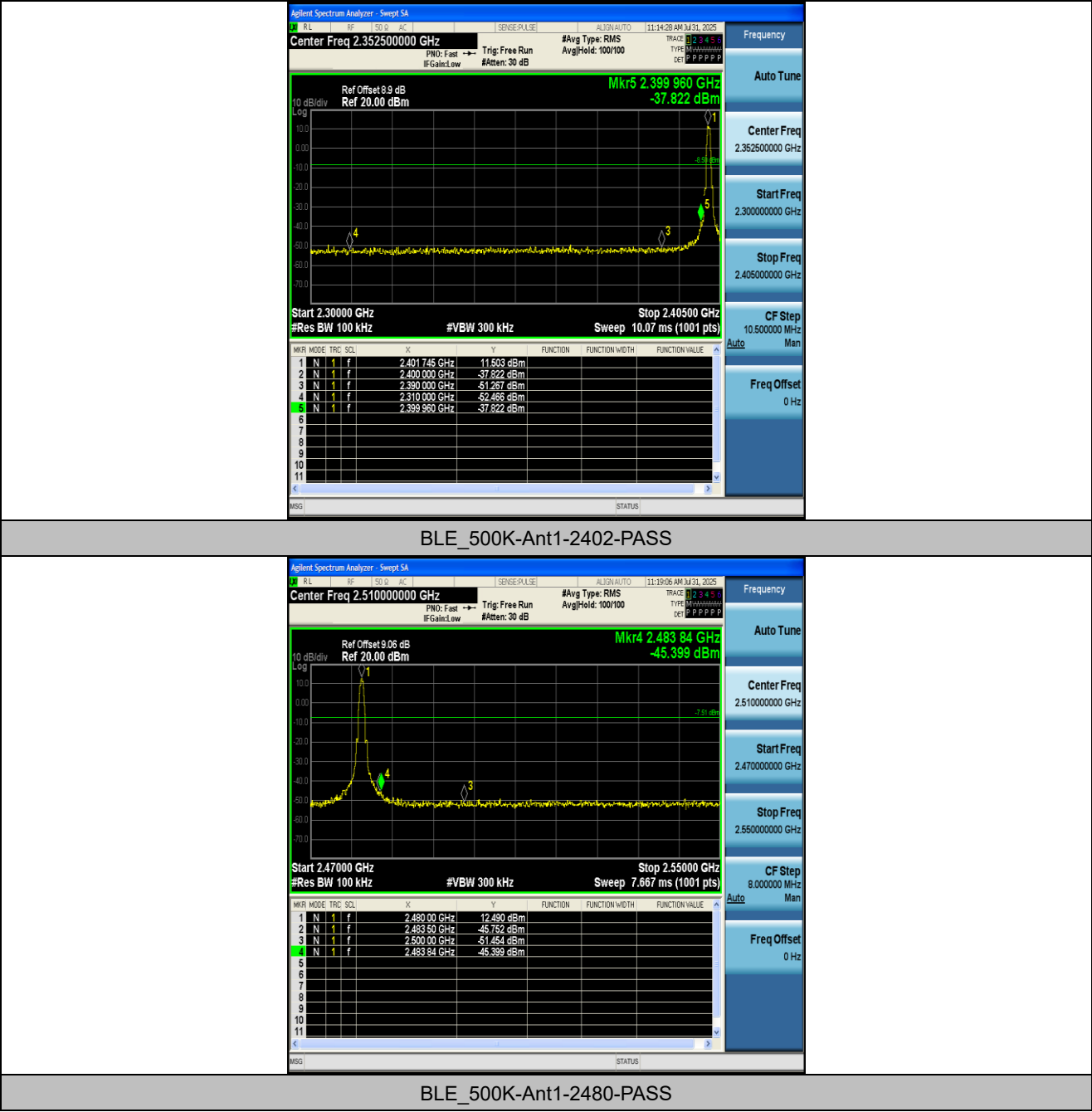
BLE_2M-Ant1-2480-PASS



BLE_125K-Ant1-2402-PASS



BLE_125K-Ant1-2480-PASS



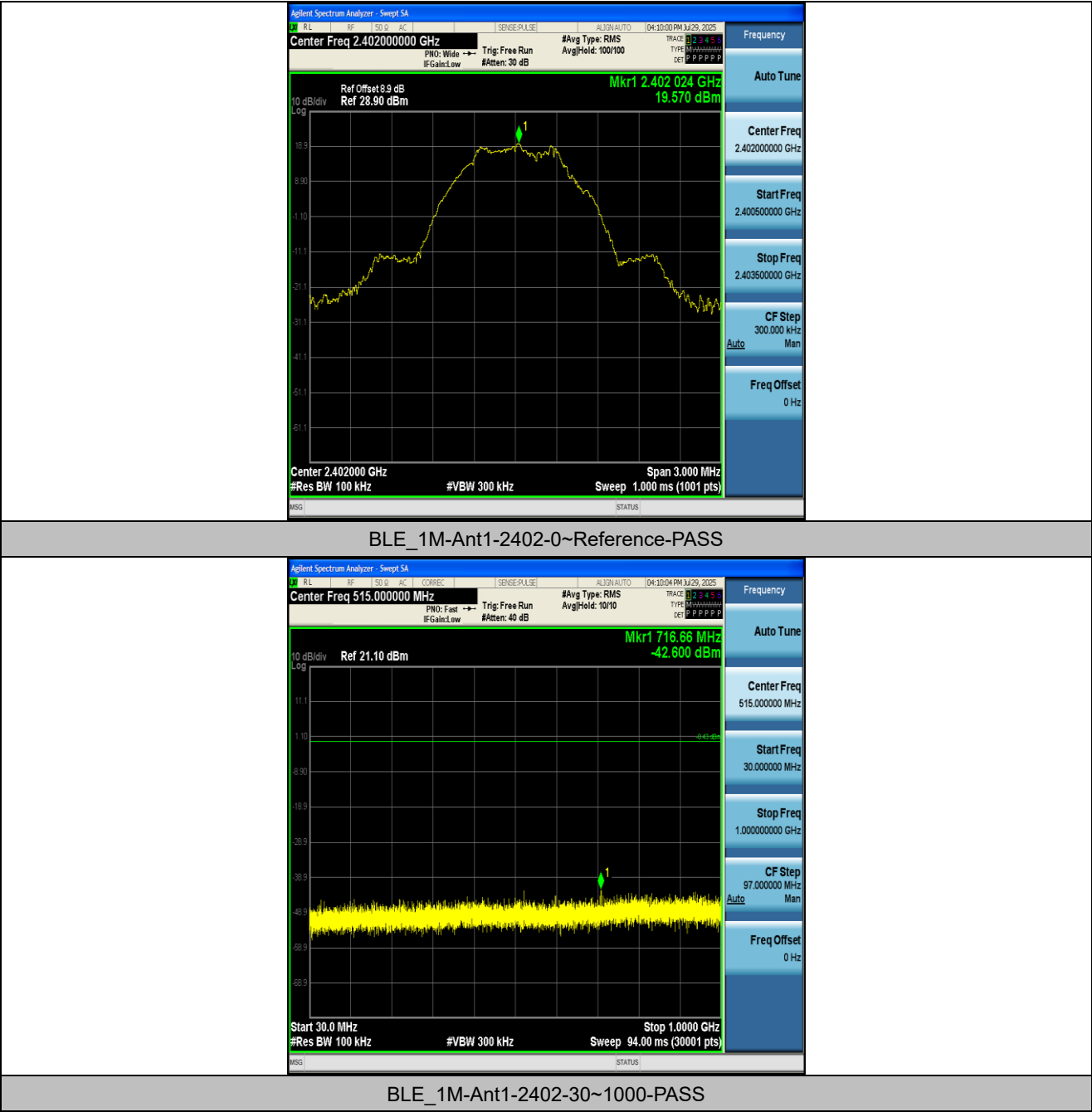
Appendix F: Conducted Spurious Emission

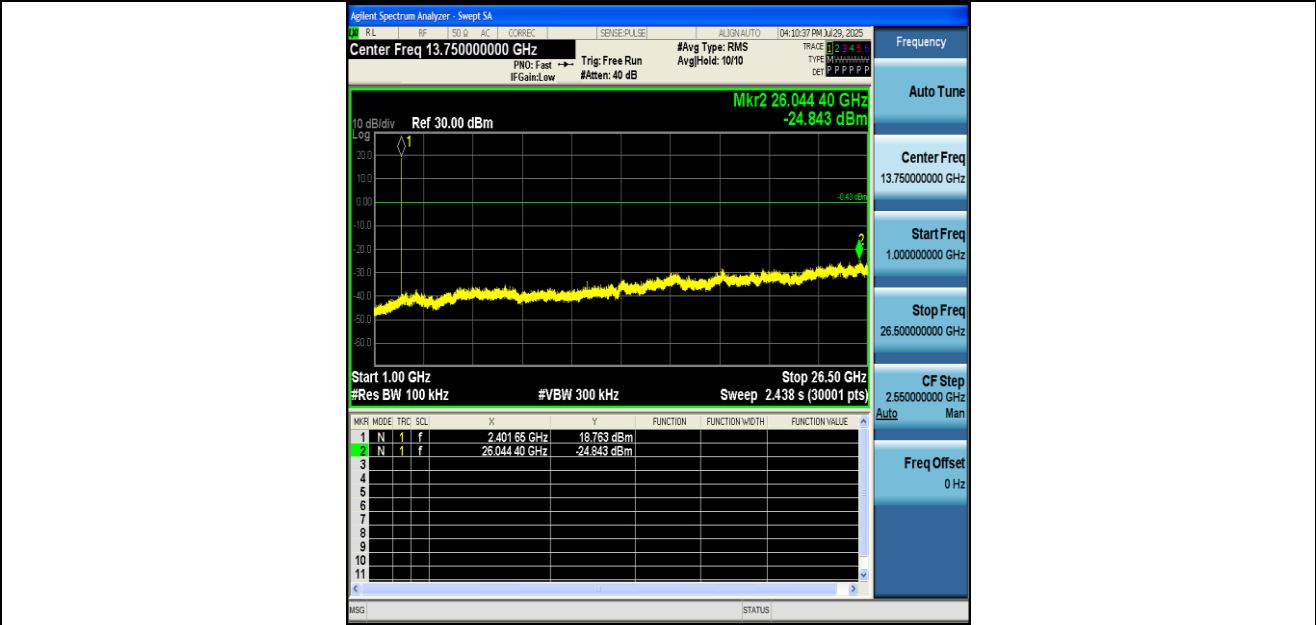
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	19.57	19.57	---	PASS
BLE_1M	Ant1	2402	30~1000	19.57	-42.6	≤-0.43	PASS
BLE_1M	Ant1	2402	1000~26500	19.57	-24.84	≤-0.43	PASS
BLE_1M	Ant1	2440	0~Reference	19.80	19.80	---	PASS
BLE_1M	Ant1	2440	30~1000	19.80	-41.23	≤-0.2	PASS
BLE_1M	Ant1	2440	1000~26500	19.80	-25.19	≤-0.2	PASS
BLE_1M	Ant1	2480	0~Reference	16.38	16.38	---	PASS
BLE_1M	Ant1	2480	30~1000	16.38	-40.85	≤-3.62	PASS
BLE_1M	Ant1	2480	1000~26500	16.38	-25.36	≤-3.62	PASS
BLE_2M	Ant1	2402	0~Reference	15.91	15.91	---	PASS
BLE_2M	Ant1	2402	30~1000	15.91	-41.56	≤-4.09	PASS
BLE_2M	Ant1	2402	1000~26500	15.91	-25.71	≤-4.09	PASS
BLE_2M	Ant1	2440	0~Reference	16.56	16.56	---	PASS
BLE_2M	Ant1	2440	30~1000	16.56	-42.71	≤-3.44	PASS
BLE_2M	Ant1	2440	1000~26500	16.56	-24.07	≤-3.44	PASS
BLE_2M	Ant1	2480	0~Reference	16.46	16.46	---	PASS
BLE_2M	Ant1	2480	30~1000	16.46	-42.09	≤-3.54	PASS
BLE_2M	Ant1	2480	1000~26500	16.46	-25.15	≤-3.54	PASS
BLE_125K	Ant1	2402	0~Reference	11.24	11.24	---	PASS
BLE_125K	Ant1	2402	30~1000	11.24	-42.64	≤-8.76	PASS
BLE_125K	Ant1	2402	1000~26500	11.24	-25.22	≤-8.76	PASS
BLE_125K	Ant1	2440	0~Reference	11.78	11.78	---	PASS
BLE_125K	Ant1	2440	30~1000	11.78	-42.89	≤-8.22	PASS
BLE_125K	Ant1	2440	1000~26500	11.78	-25.22	≤-8.22	PASS
BLE_125K	Ant1	2480	0~Reference	9.17	9.17	---	PASS
BLE_125K	Ant1	2480	30~1000	9.17	-43.55	≤-10.83	PASS
BLE_125K	Ant1	2480	1000~26500	9.17	-24.62	≤-10.83	PASS
BLE_500K	Ant1	2402	0~Reference	11.47	11.47	---	PASS
BLE_500K	Ant1	2402	30~1000	11.47	-42.18	≤-8.53	PASS
BLE_500K	Ant1	2402	1000~26500	11.47	-24.73	≤-8.53	PASS
BLE_500K	Ant1	2440	0~Reference	10.59	10.59	---	PASS
BLE_500K	Ant1	2440	30~1000	10.59	-42.21	≤-9.41	PASS
BLE_500K	Ant1	2440	1000~26500	10.59	-24.12	≤-9.41	PASS
BLE_500K	Ant1	2480	0~Reference	11.60	11.60	---	PASS
BLE_500K	Ant1	2480	30~1000	11.60	-42.52	≤-8.4	PASS
BLE_500K	Ant1	2480	1000~26500	11.60	-24.01	≤-8.4	PASS

Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs

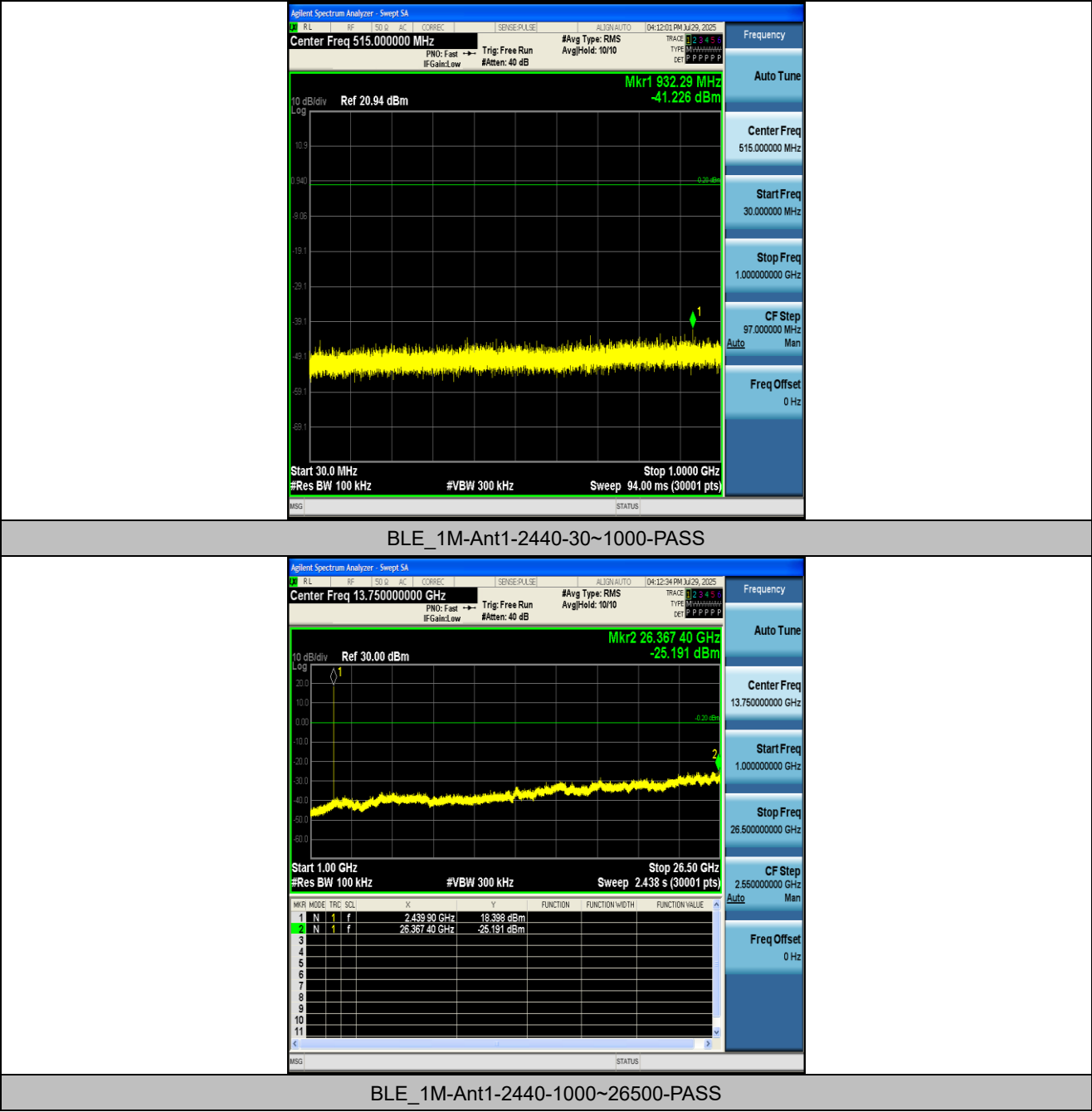




BLE_1M-Ant1-2402-1000~26500-PASS

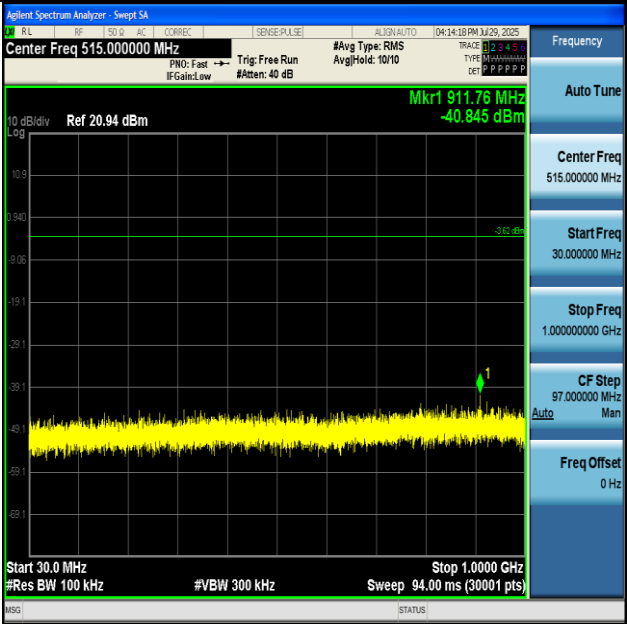


BLE_1M-Ant1-2440-0~Reference-PASS

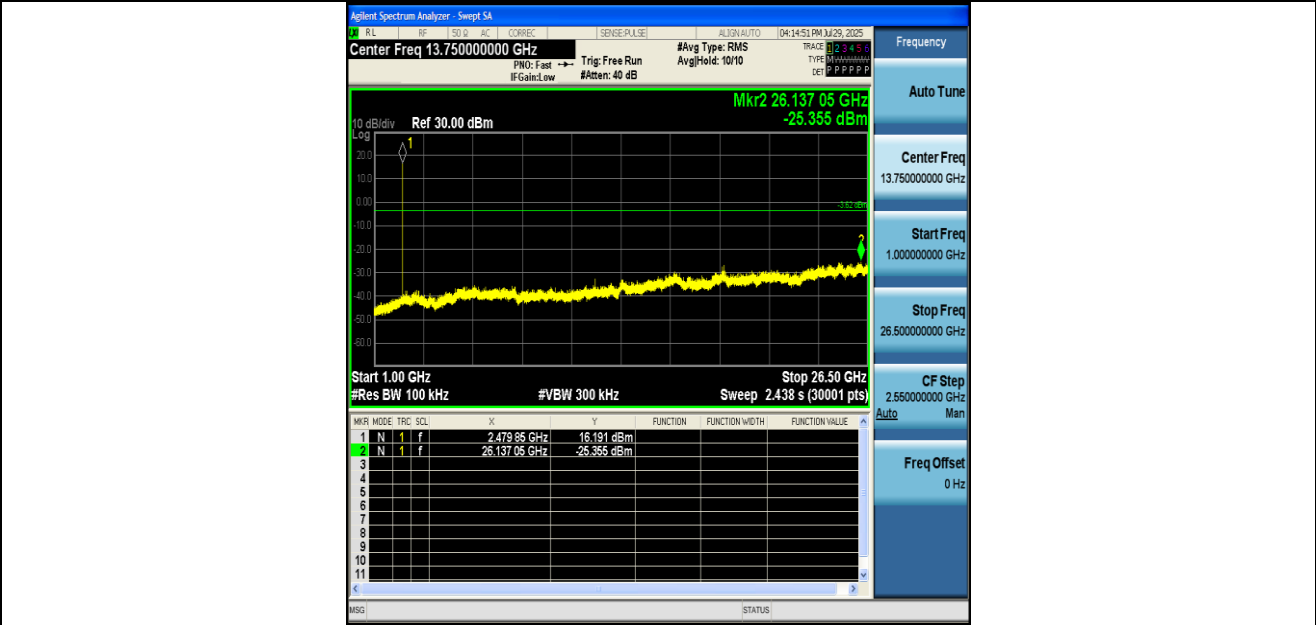




BLE_1M-Ant1-2480-0~Reference-PASS



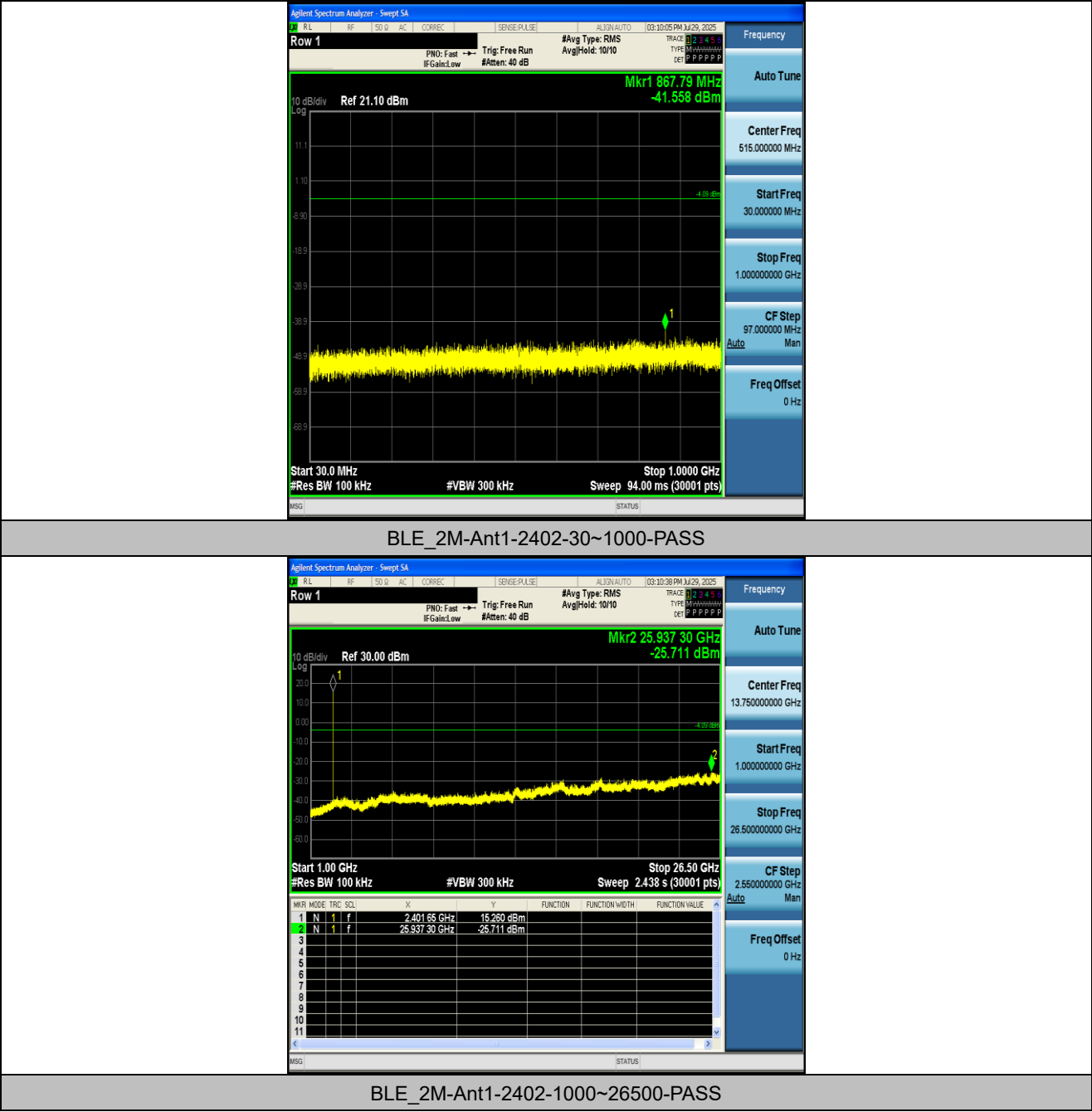
BLE_1M-Ant1-2480-30~1000-PASS

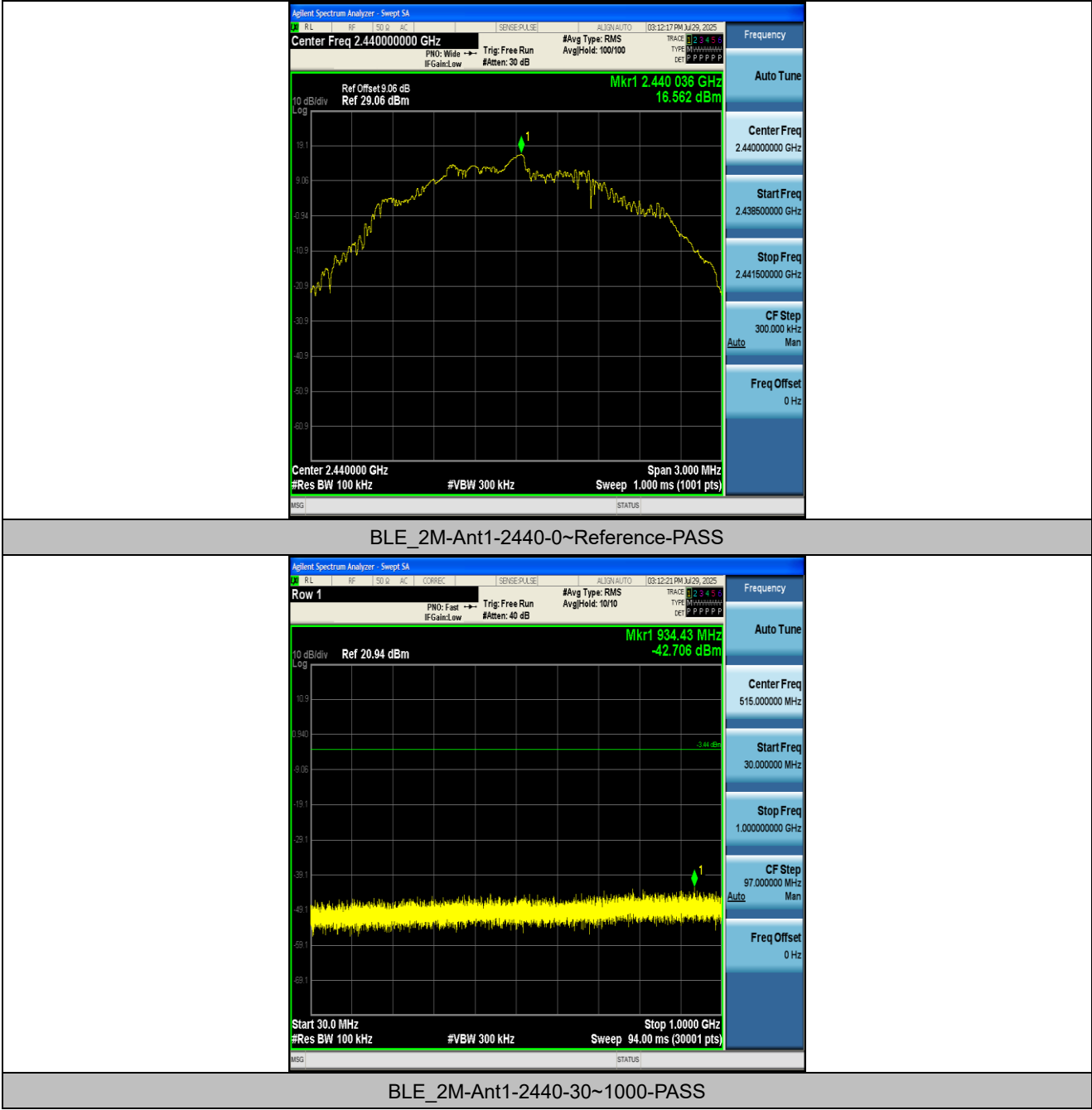


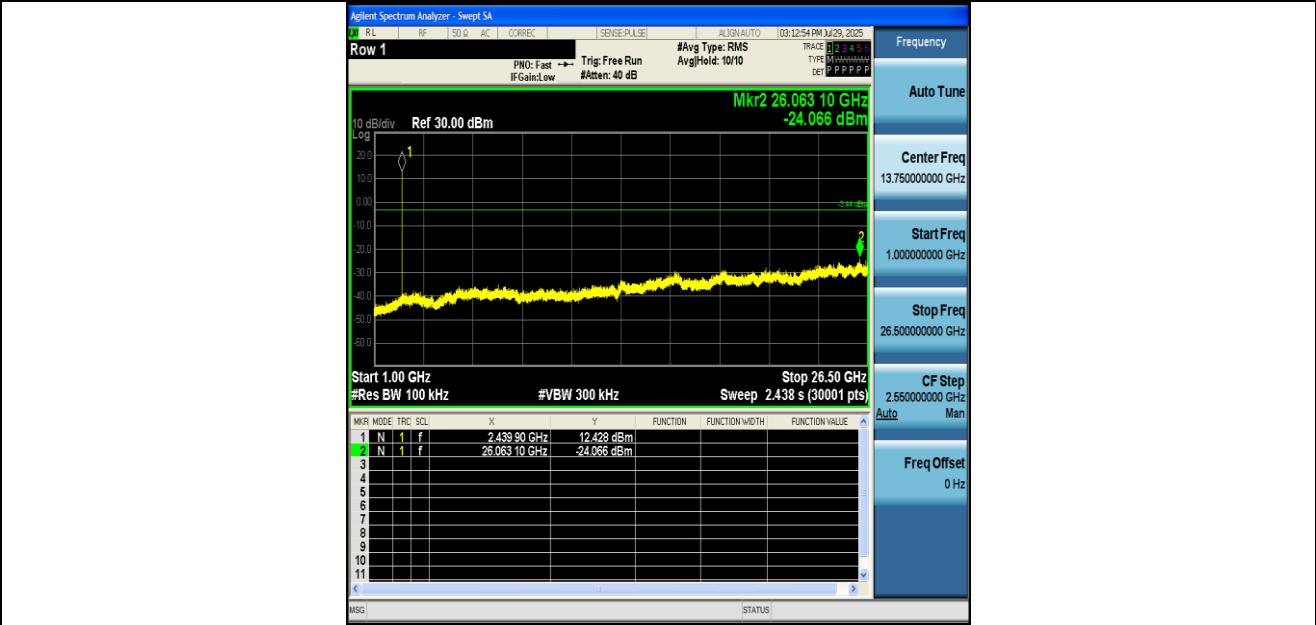
BLE_1M-Ant1-2480-1000~26500-PASS



BLE_2M-Ant1-2402-0~Reference-PASS



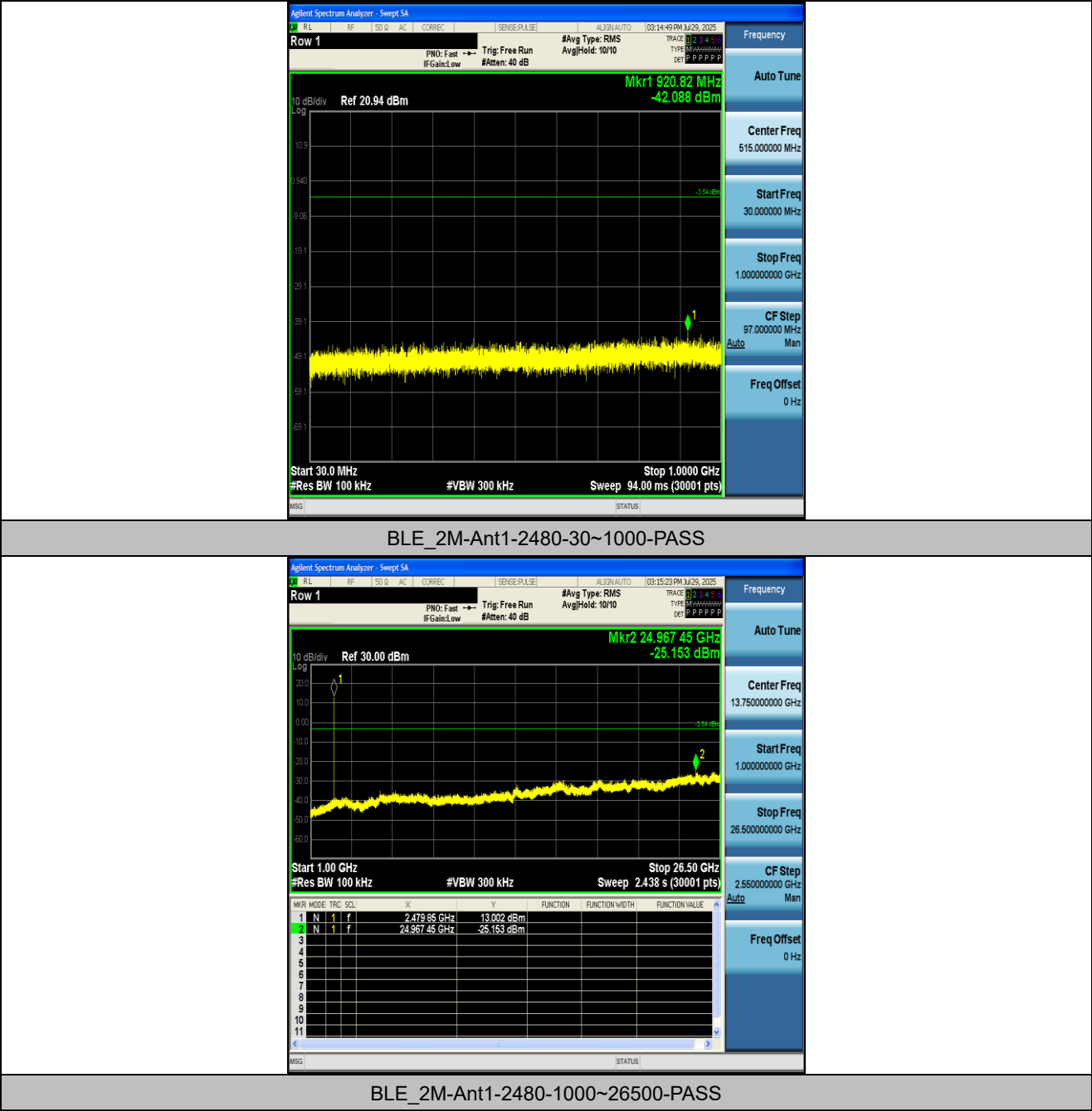




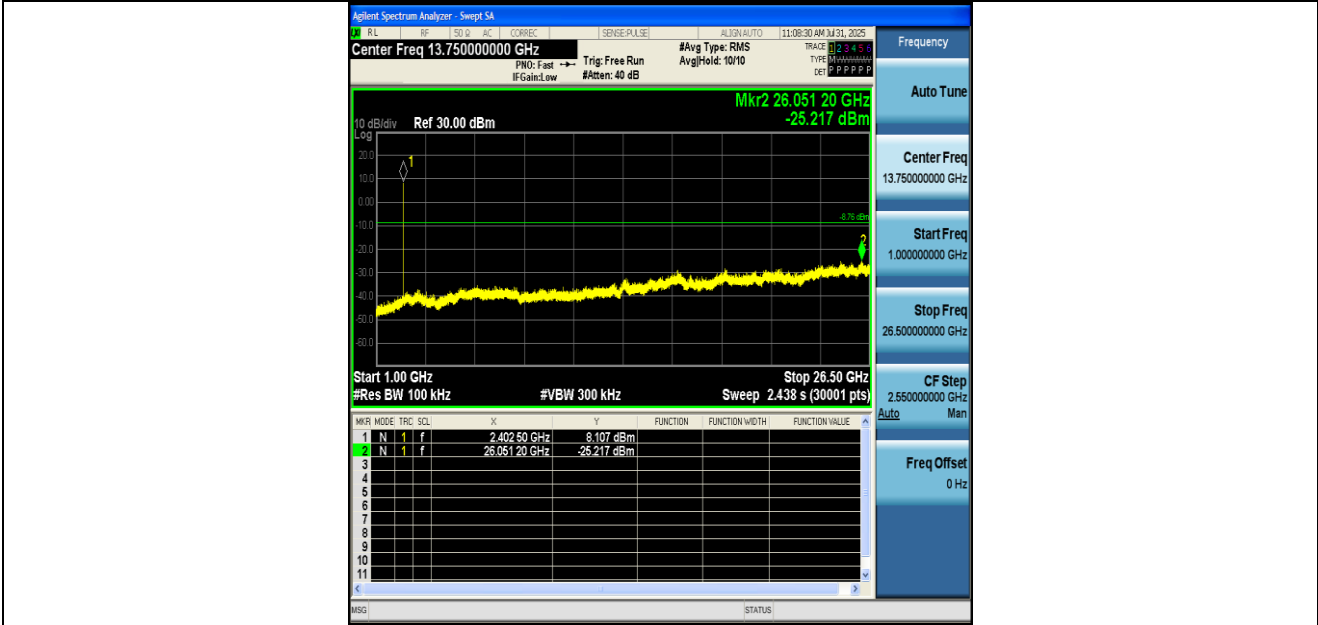
BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-0~Reference-PASS



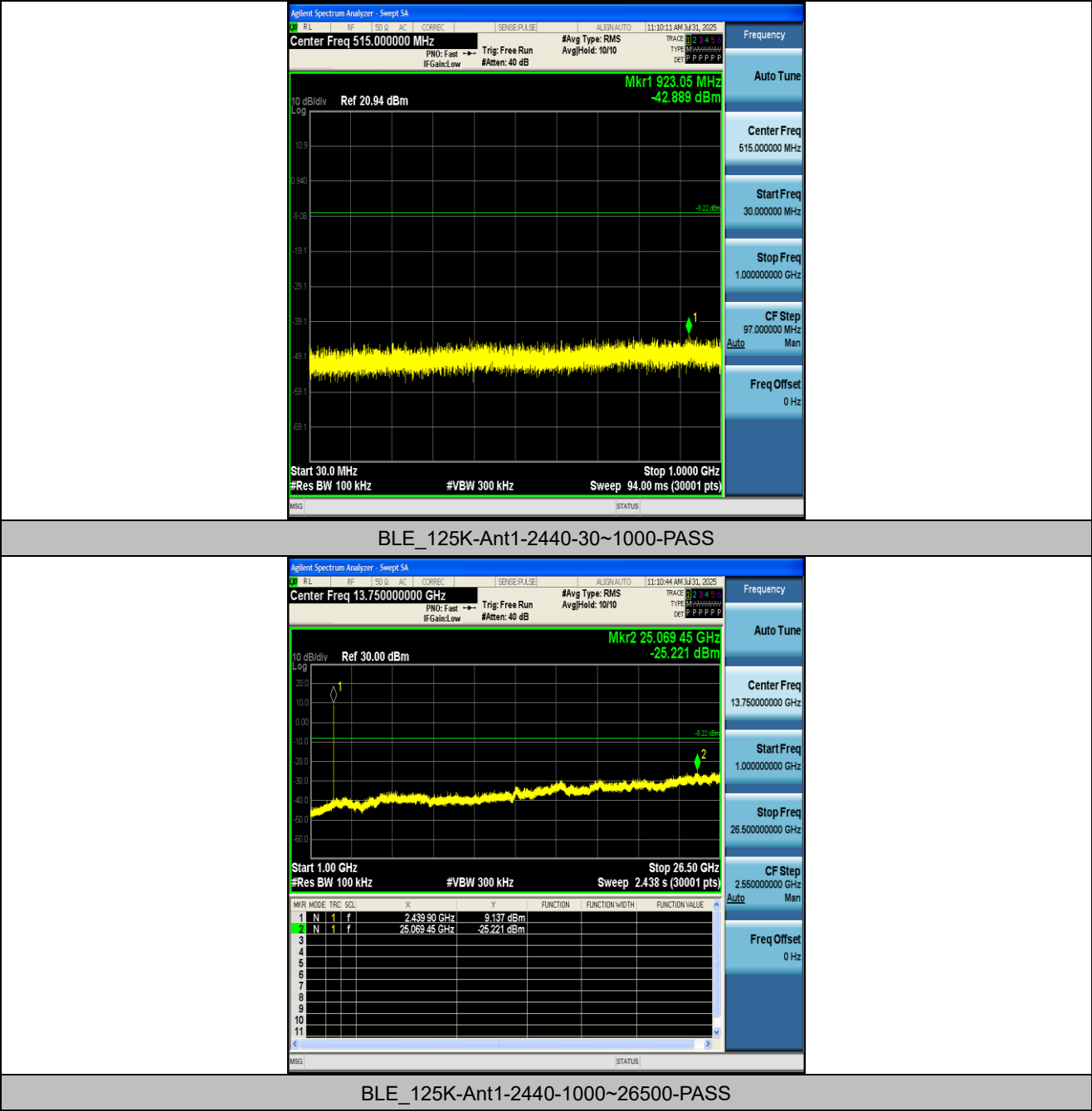




BLE_125K-Ant1-2402-1000~26500-PASS

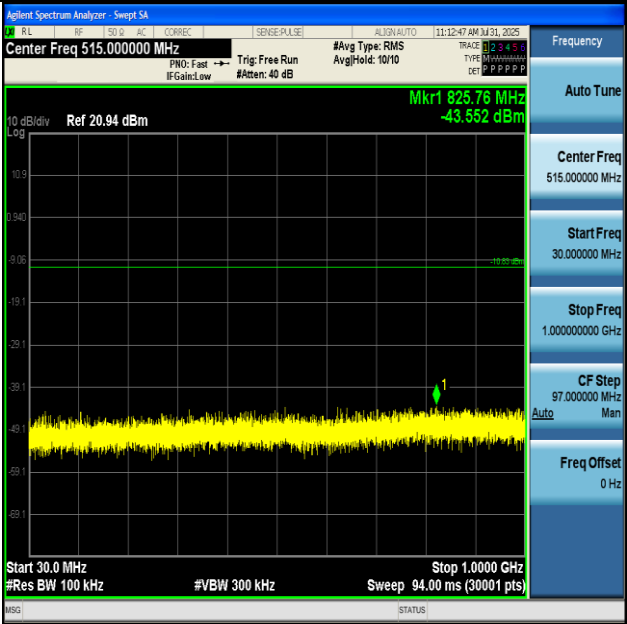


BLE_125K-Ant1-2440-0~Reference-PASS

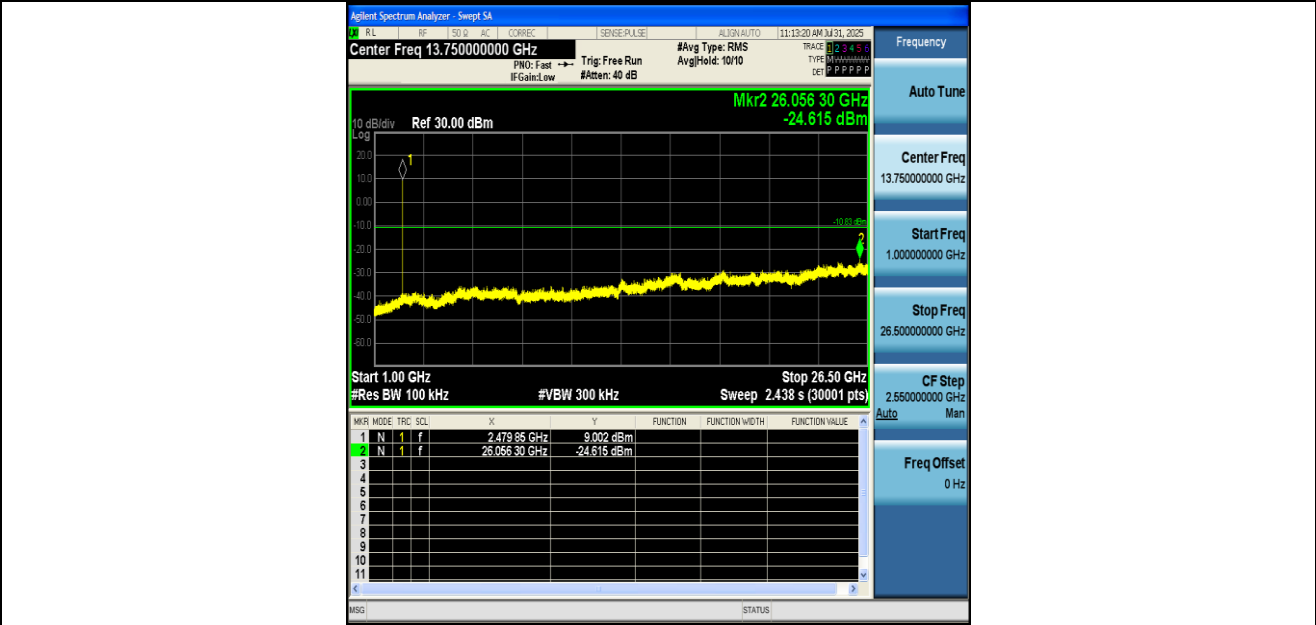




BLE_125K-Ant1-2480-0~Reference-PASS



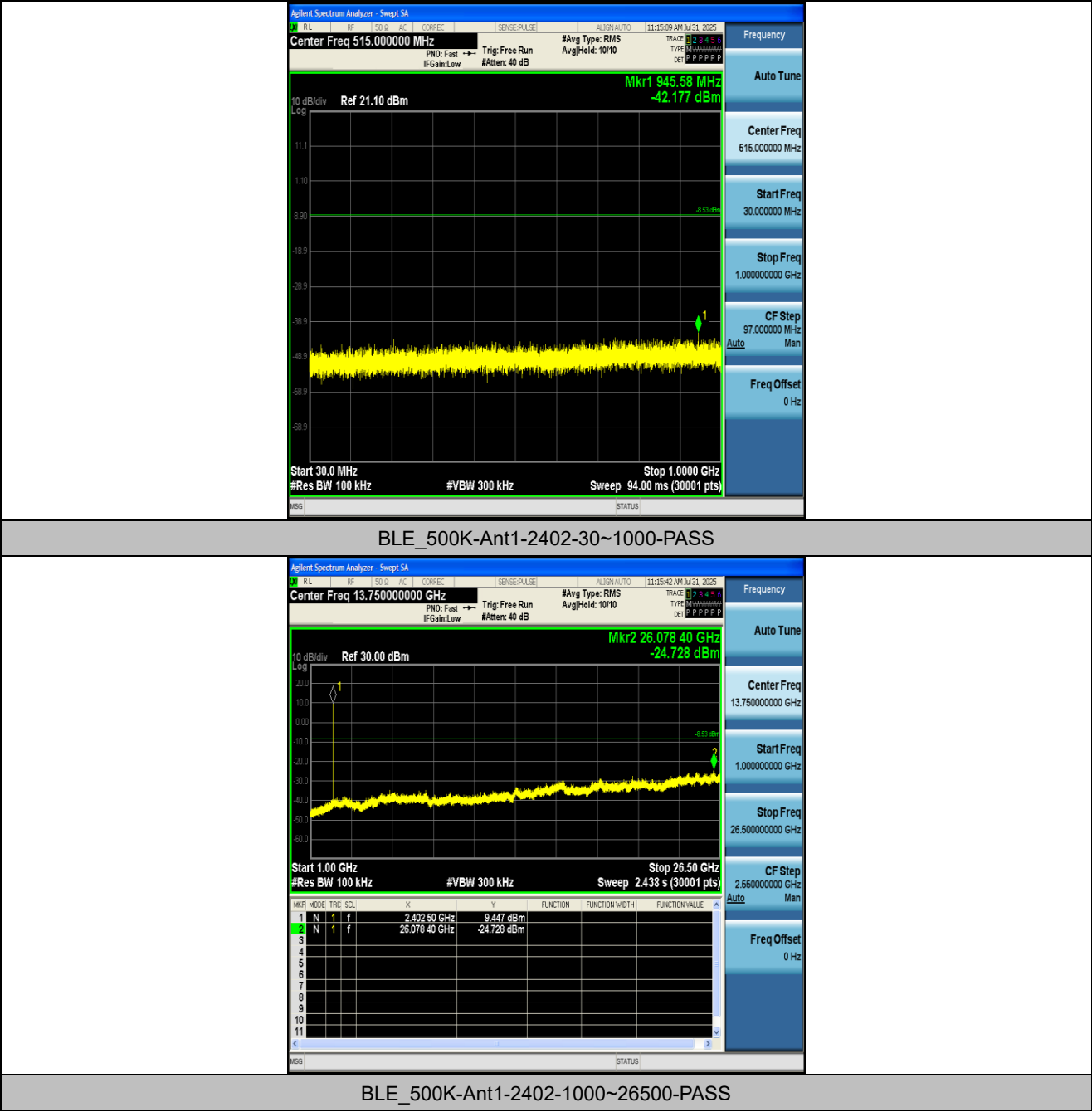
BLE_125K-Ant1-2480-30~1000-PASS



BLE_125K-Ant1-2480-1000~26500-PASS

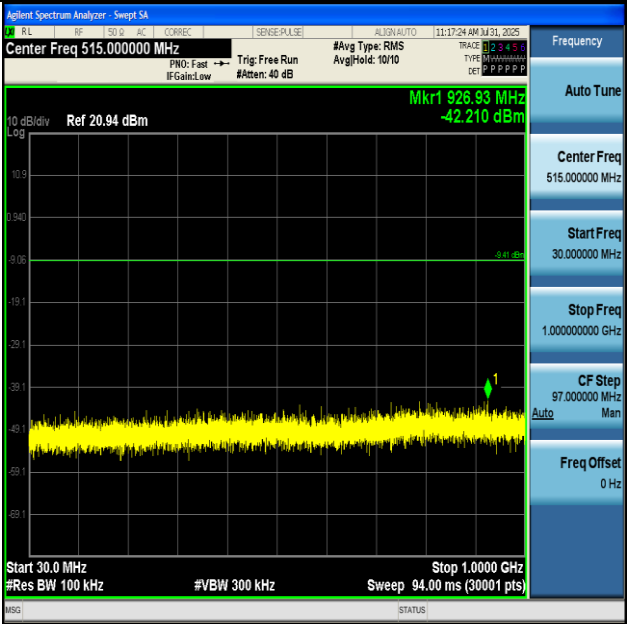


BLE_500K-Ant1-2402-0~Reference-PASS

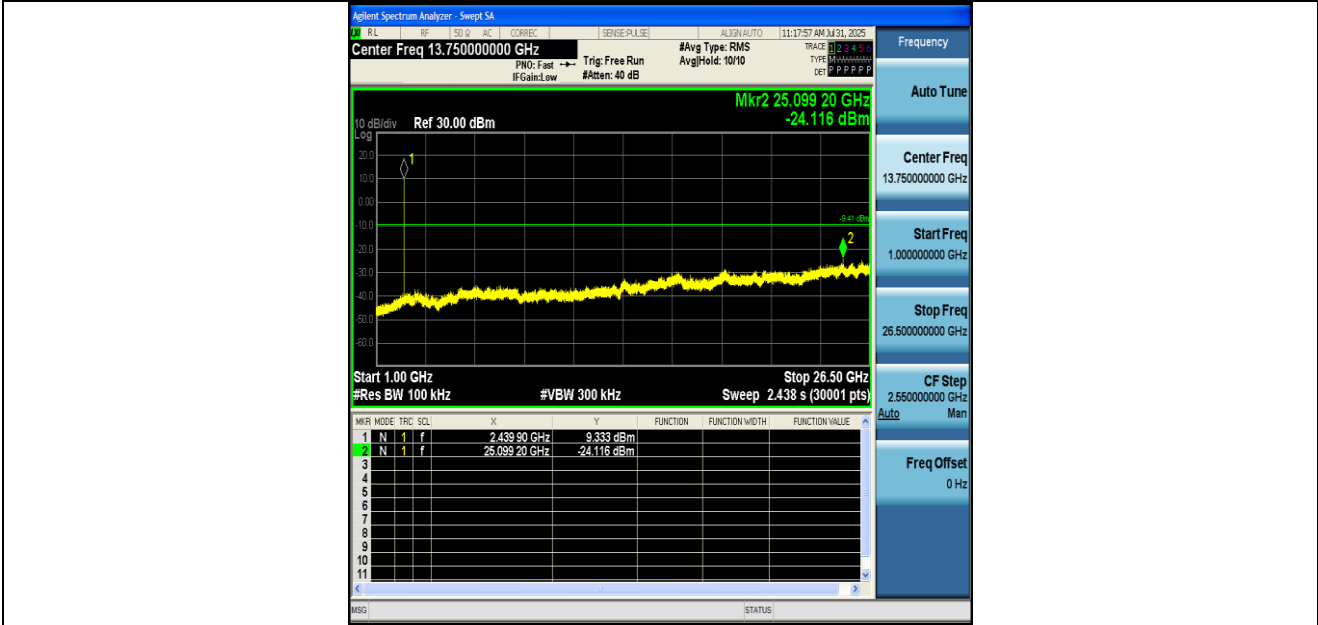




BLE_500K-Ant1-2440-0~Reference-PASS



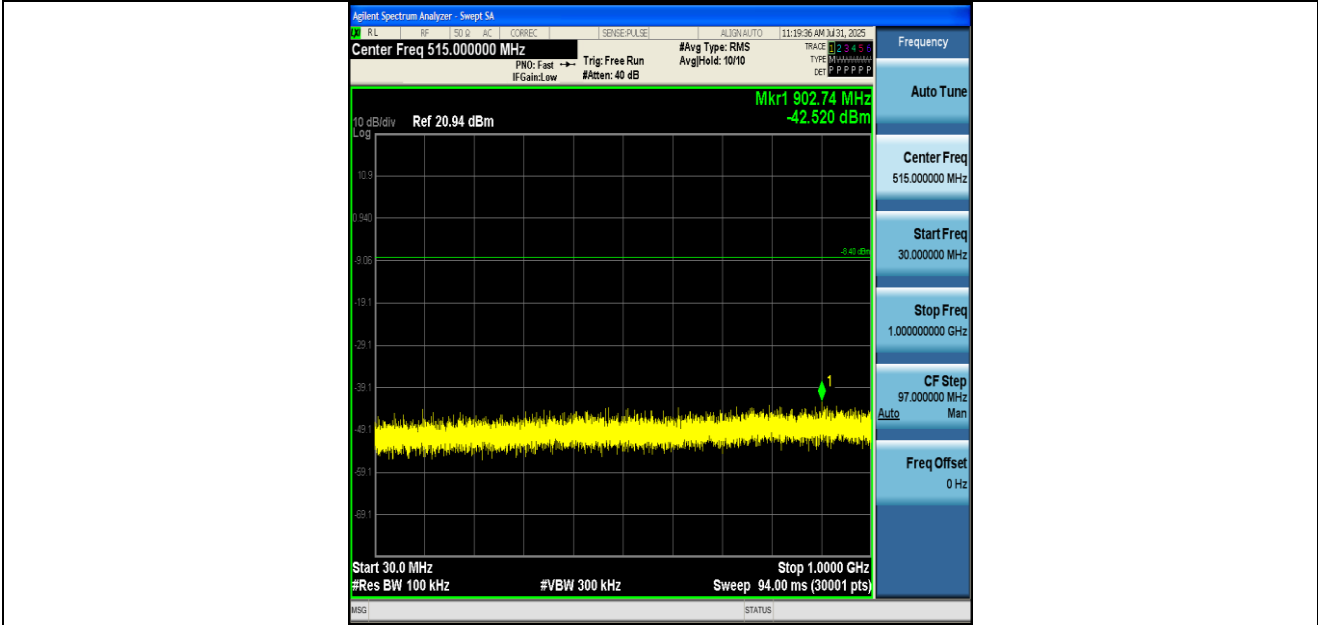
BLE_500K-Ant1-2440-30~1000-PASS



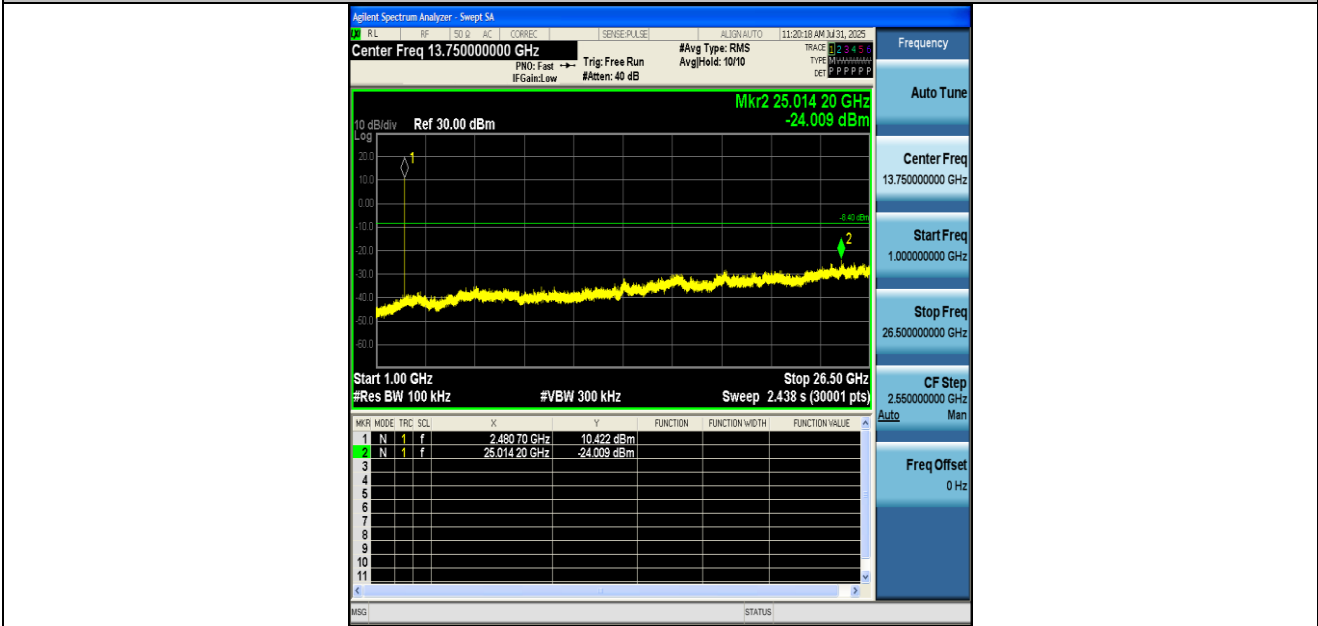
BLE_500K-Ant1-2440-1000~26500-PASS



BLE_500K-Ant1-2480-0~Reference-PASS



BLE_500K-Ant1-2480-30~1000-PASS



BLE_500K-Ant1-2480-1000~26500-PASS

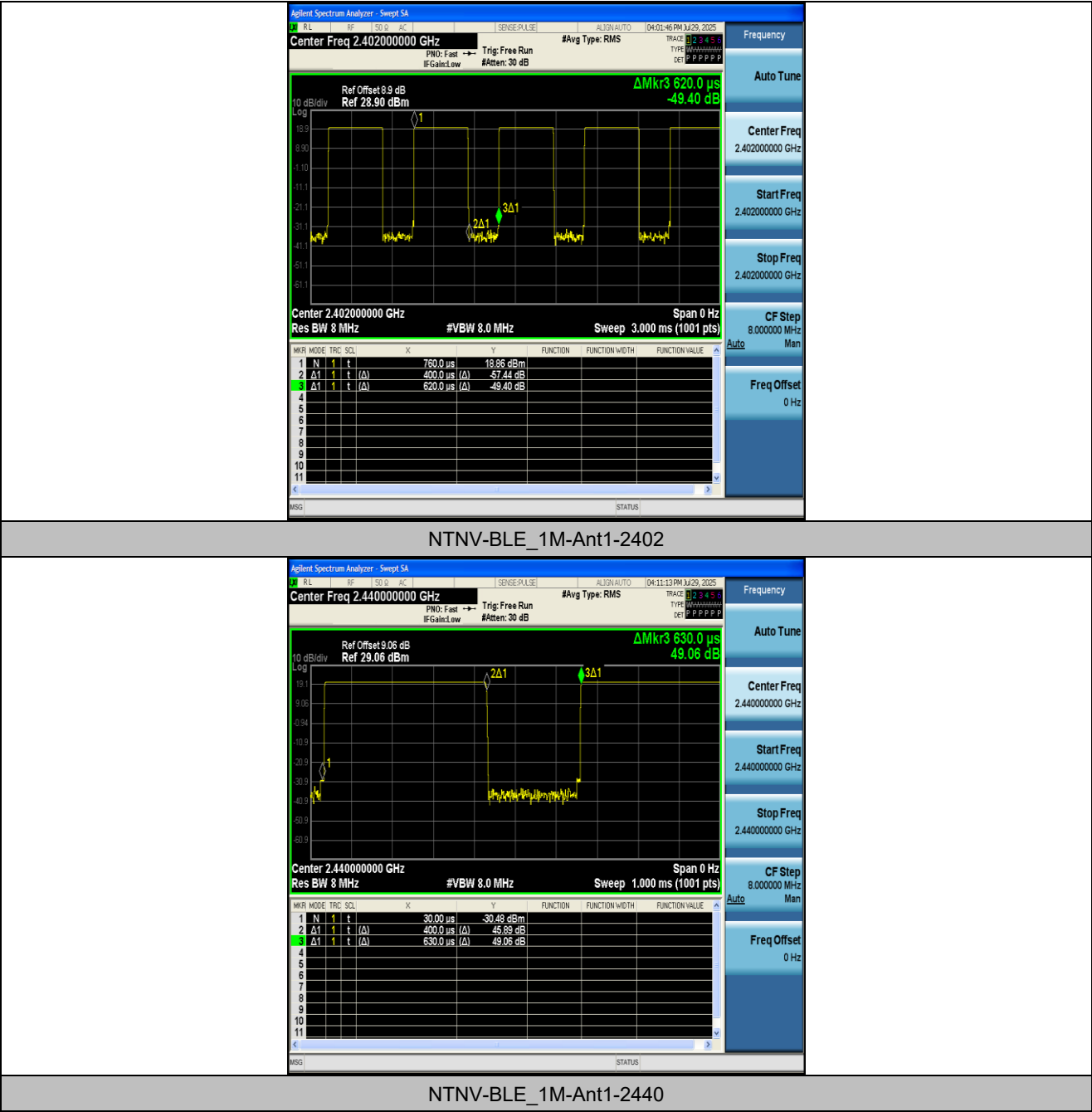
Appendix G: Duty Cycle

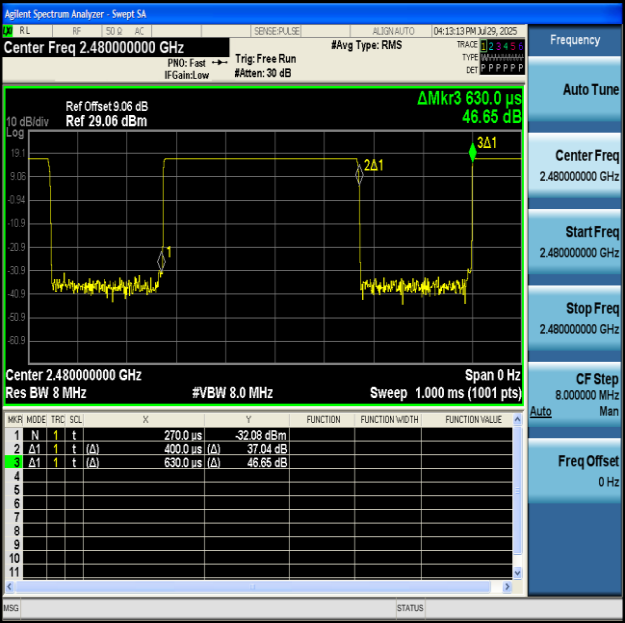
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
BLE_1M	Ant1	2402	0.40	0.62	64.52	1.90
BLE_1M	Ant1	2440	0.40	0.63	63.49	1.97
BLE_1M	Ant1	2480	0.40	0.63	63.49	1.97
BLE_2M	Ant1	2402	0.22	0.63	34.92	4.57
BLE_2M	Ant1	2440	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2480	0.22	0.63	34.92	4.57
BLE_125K	Ant1	2402	3.12	3.75	83.20	0.80
BLE_125K	Ant1	2440	3.11	3.75	82.93	0.81
BLE_125K	Ant1	2480	3.11	3.75	82.93	0.81
BLE_500K	Ant1	2402	1.07	1.87	57.22	2.42
BLE_500K	Ant1	2440	1.07	1.88	56.91	2.45
BLE_500K	Ant1	2480	1.07	1.88	56.91	2.45

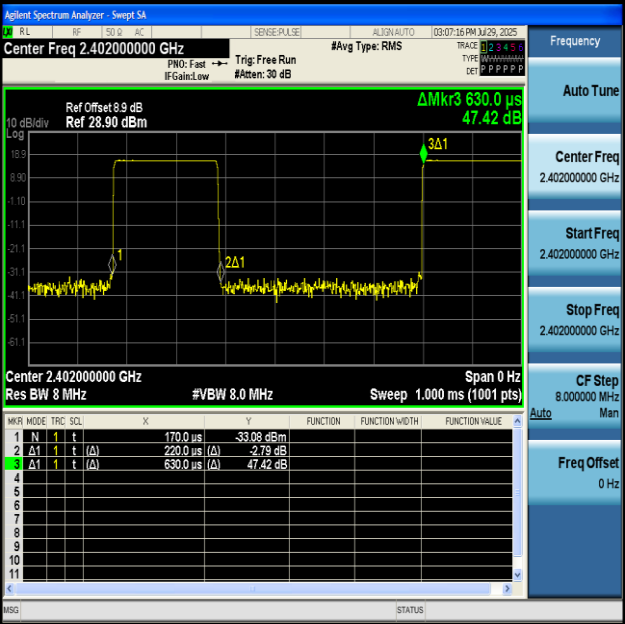
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

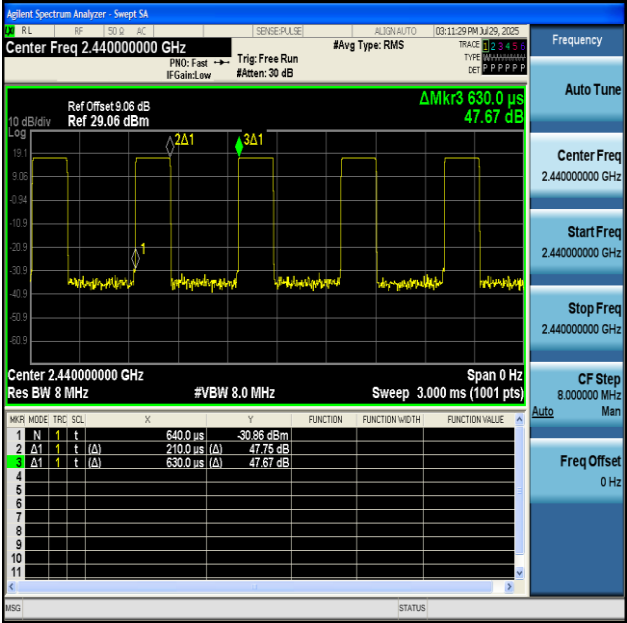




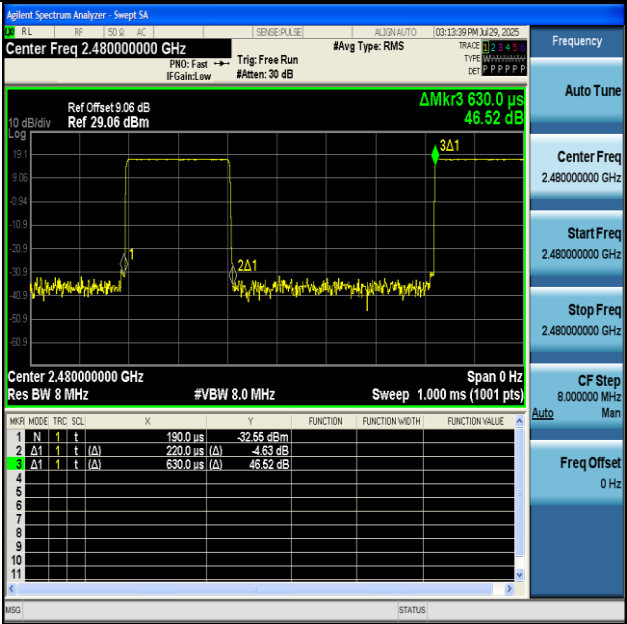
NTNV-BLE_1M-Ant1-2480



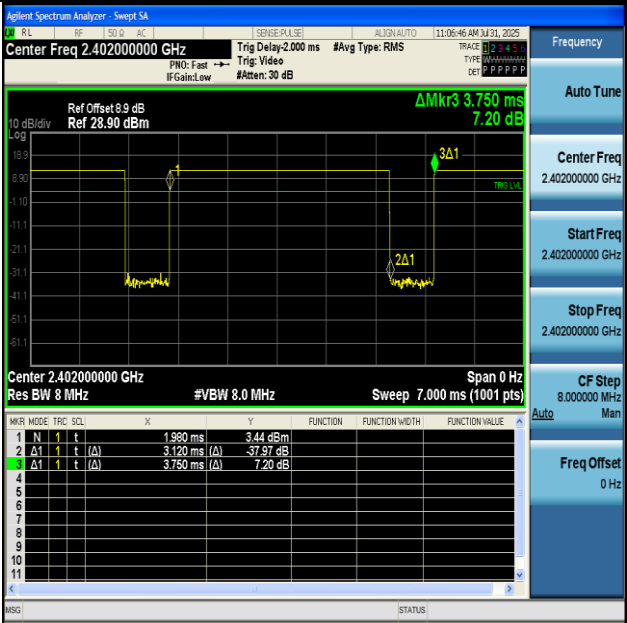
NTNV-BLE_2M-Ant1-2402



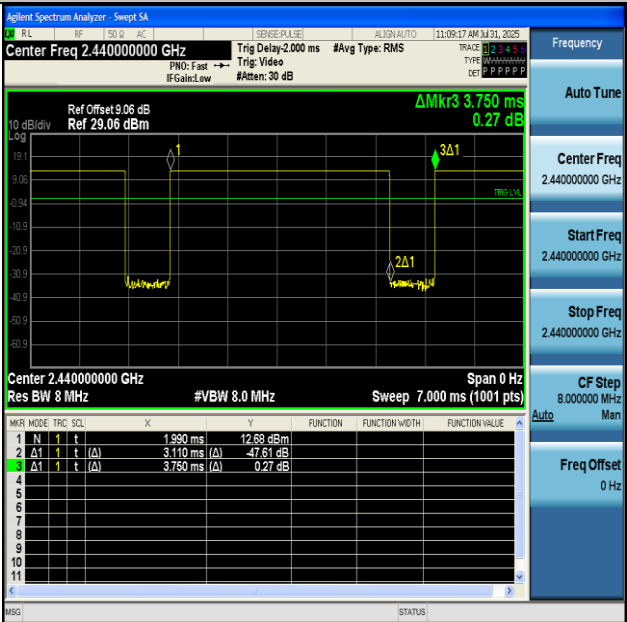
NTNV-BLE_2M-Ant1-2440



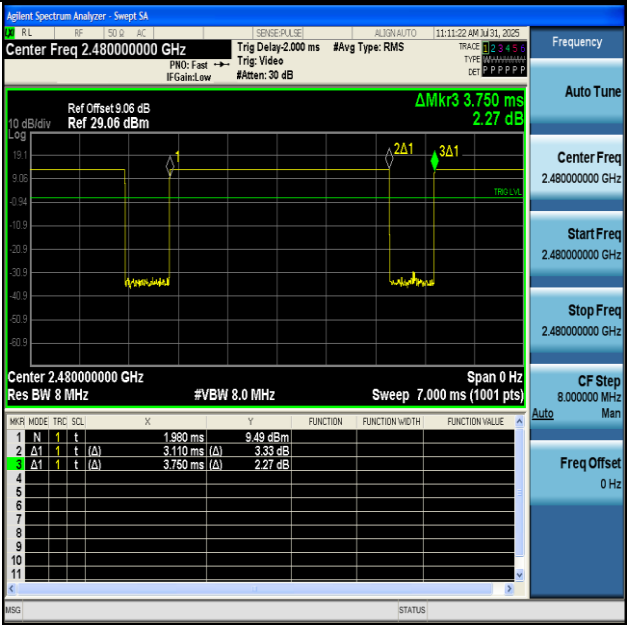
NTNV-BLE_2M-Ant1-2480



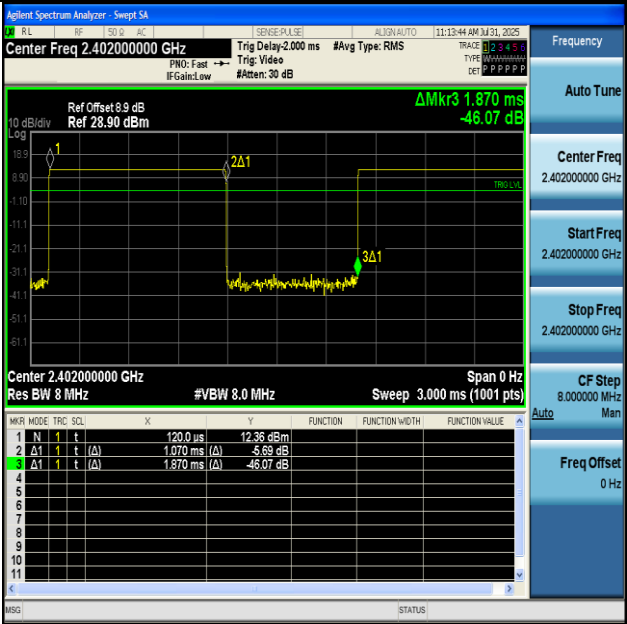
NTNV-BLE_125K-Ant1-2402



NTNV-BLE_125K-Ant1-2440



NTNV-BLE_125K-Ant1-2480



NTNV-BLE_500K-Ant1-2402

