

Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: HONOR CHOICE Headphones Max

Test Model: VRD-ME00

Environmental Conditions

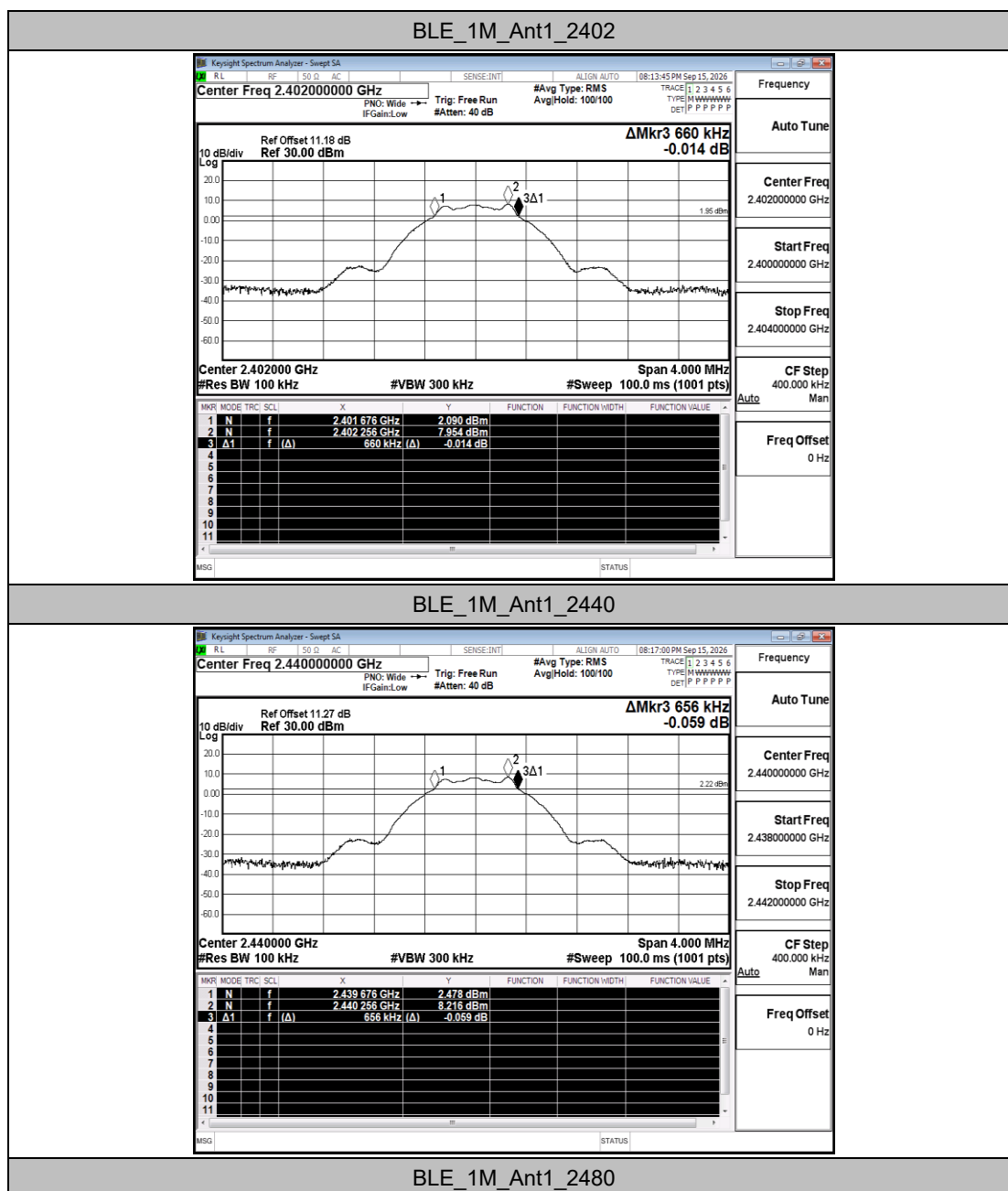
Temperature:	23.2°C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

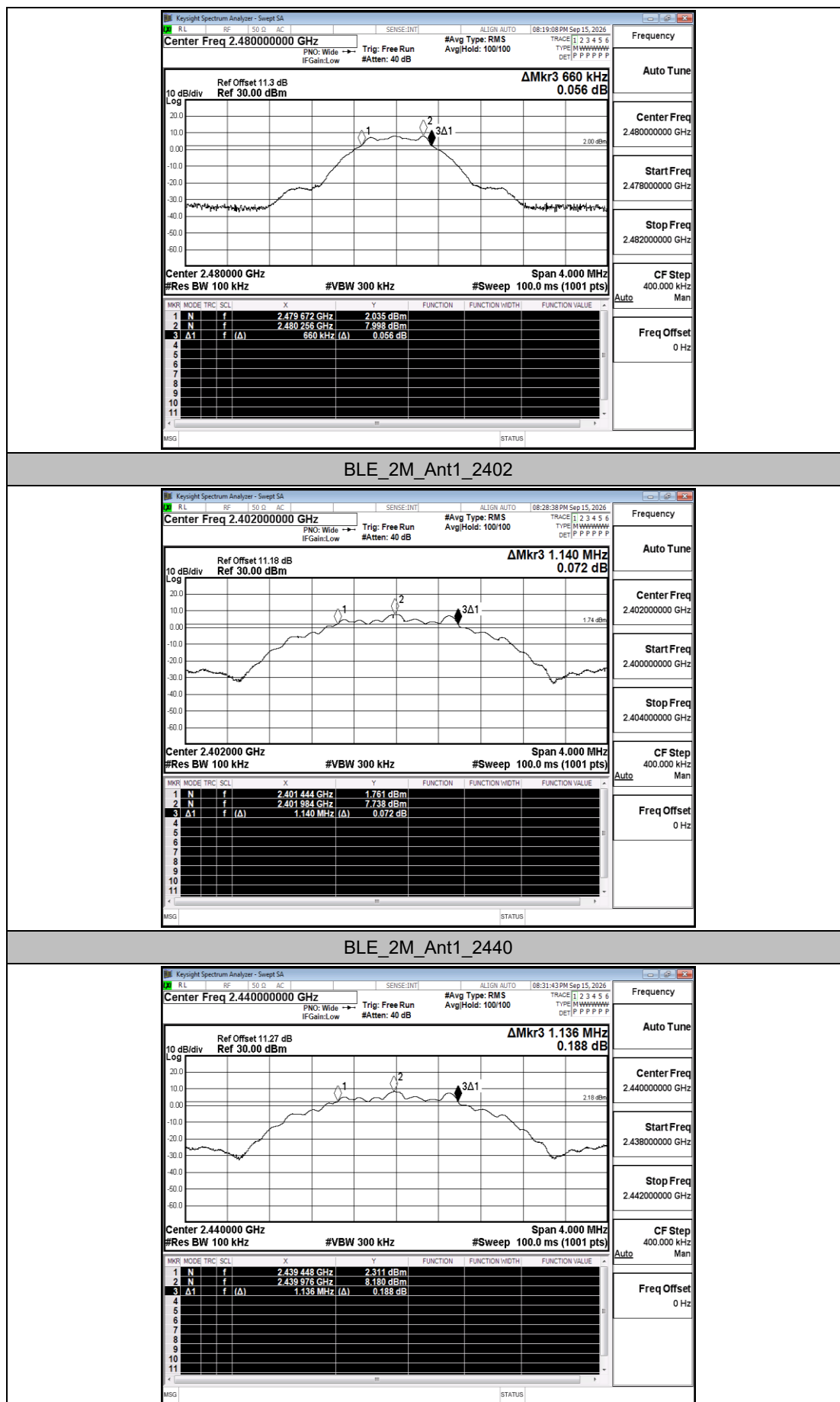
B.1 6dB Bandwidth

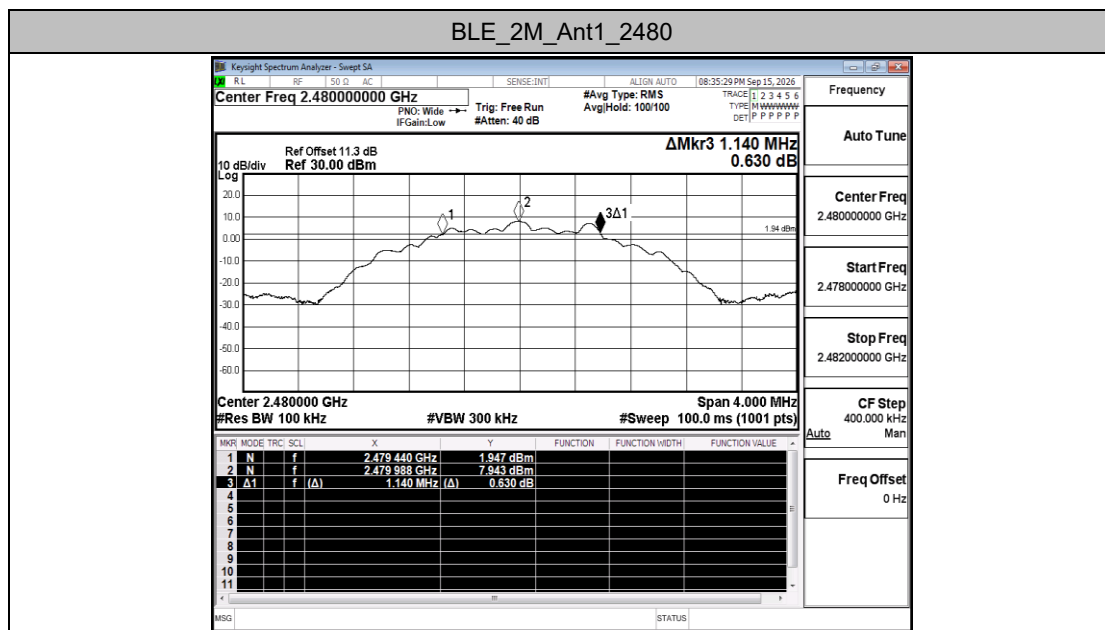
Test Result

TestMode	Antenna	Freq (MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.676	2402.336	0.5	PASS
		2440	0.656	2439.676	2440.332	0.5	PASS
		2480	0.660	2479.672	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.140	2401.444	2402.584	0.5	PASS
		2440	1.136	2439.448	2440.584	0.5	PASS
		2480	1.140	2479.440	2480.580	0.5	PASS

Test Graphs





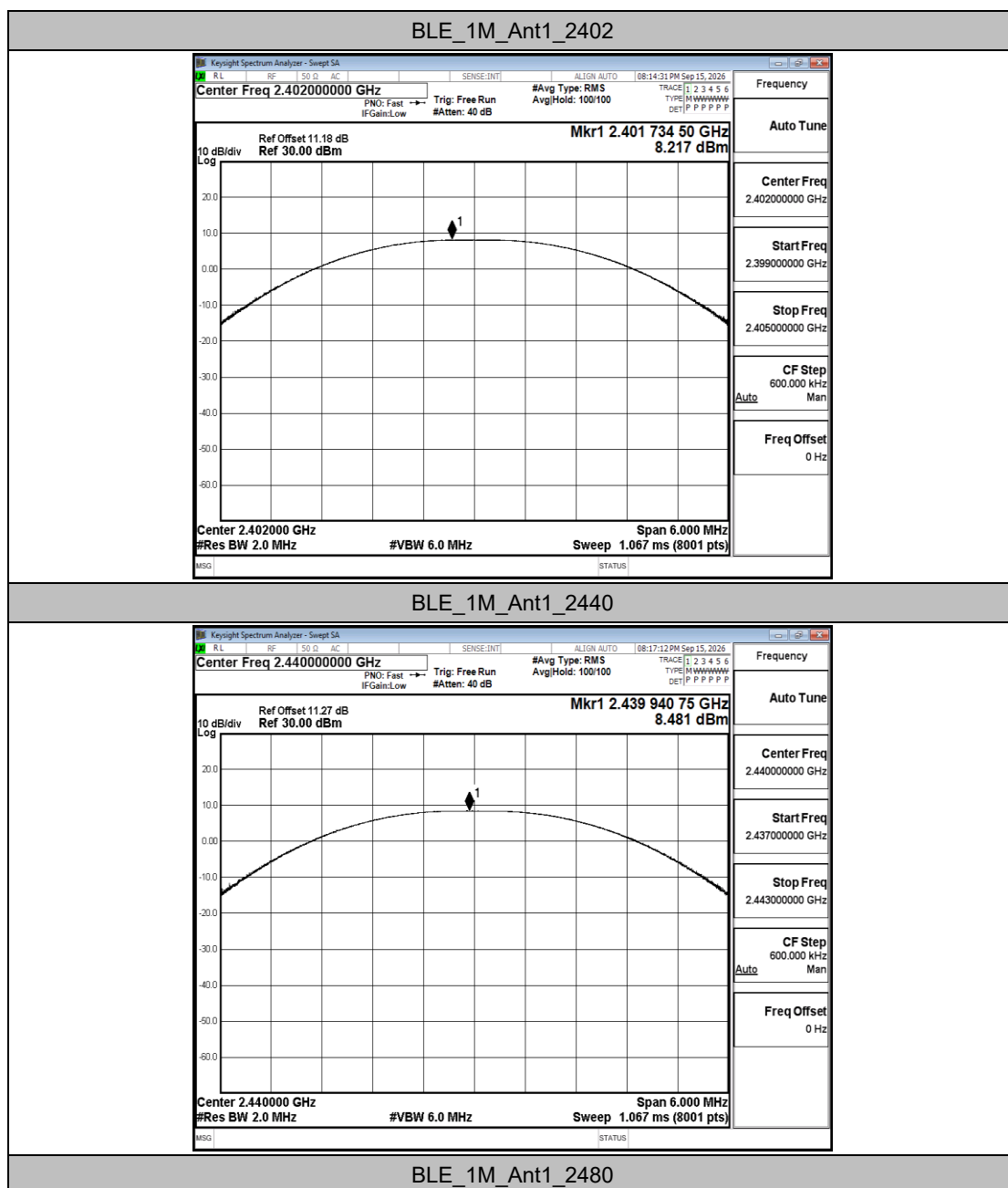


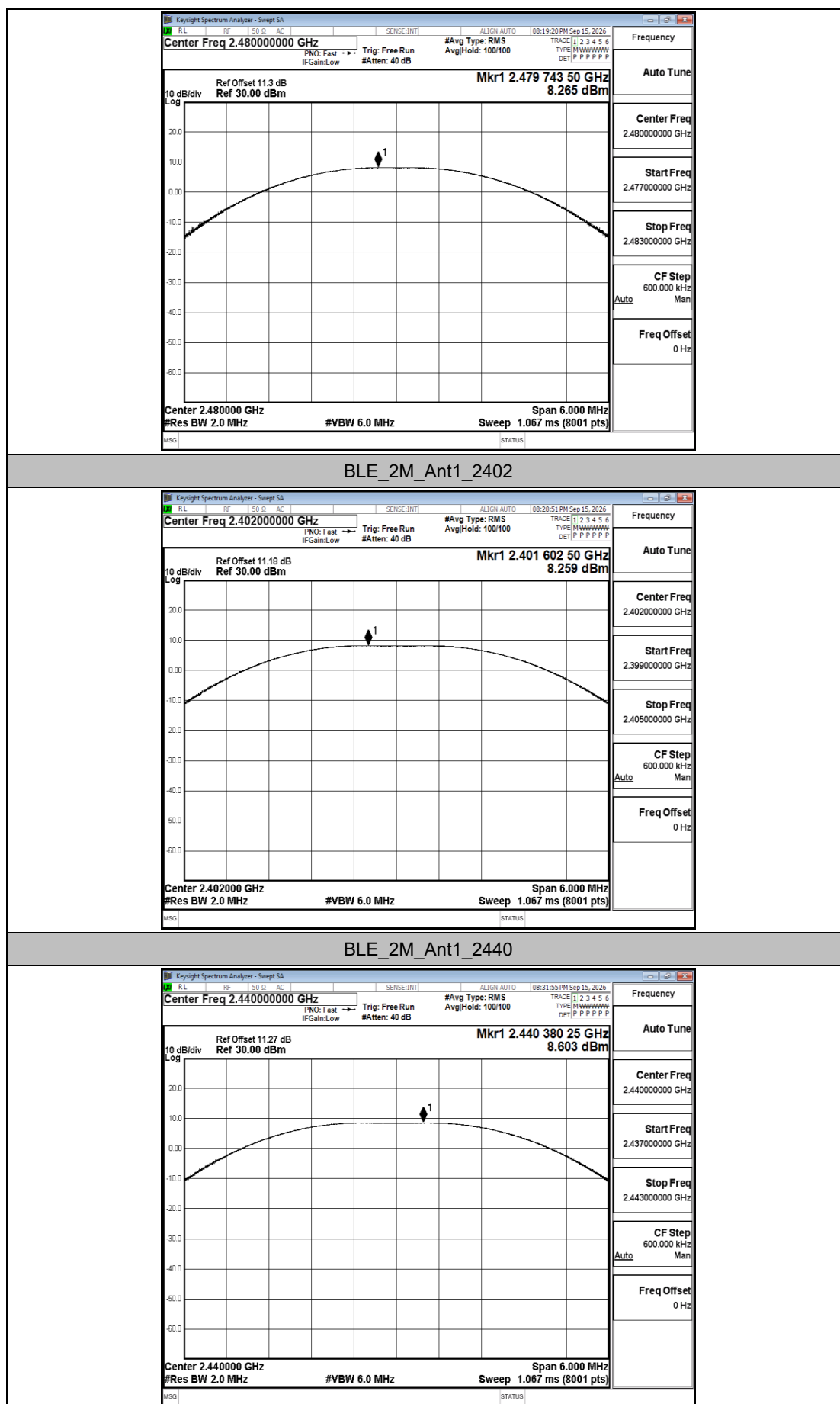
B.2 Maximum Peak conducted output power

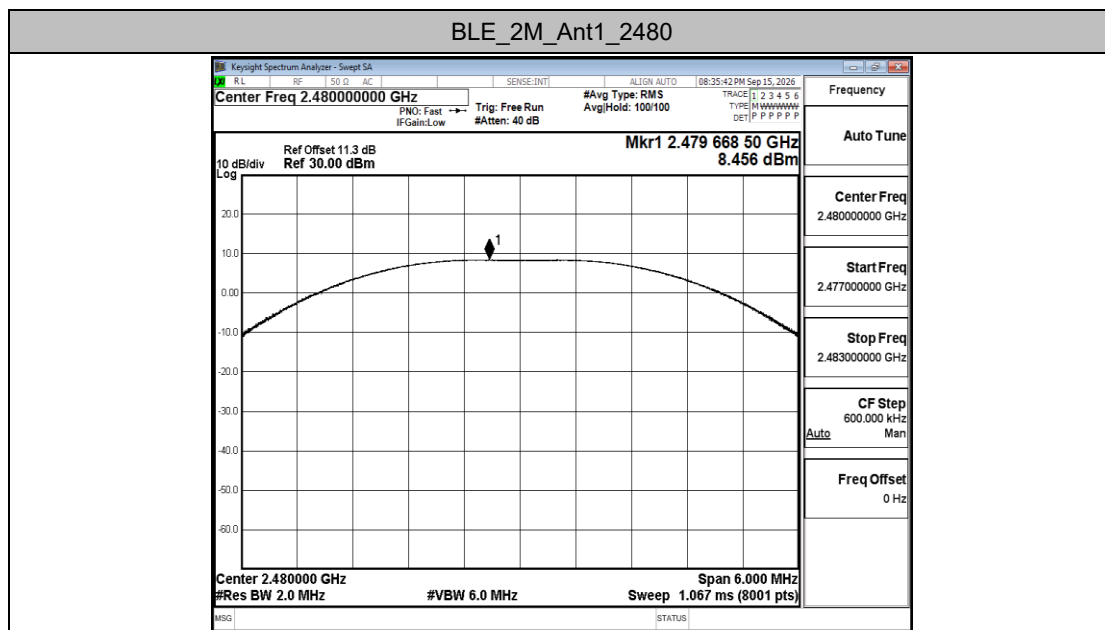
Test Result Peak

TestMode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	8.22	≤30	PASS
		2440	8.48	≤30	PASS
		2480	8.27	≤30	PASS
BLE_2M	Ant1	2402	8.26	≤30	PASS
		2440	8.60	≤30	PASS
		2480	8.46	≤30	PASS

Test Graphs Peak





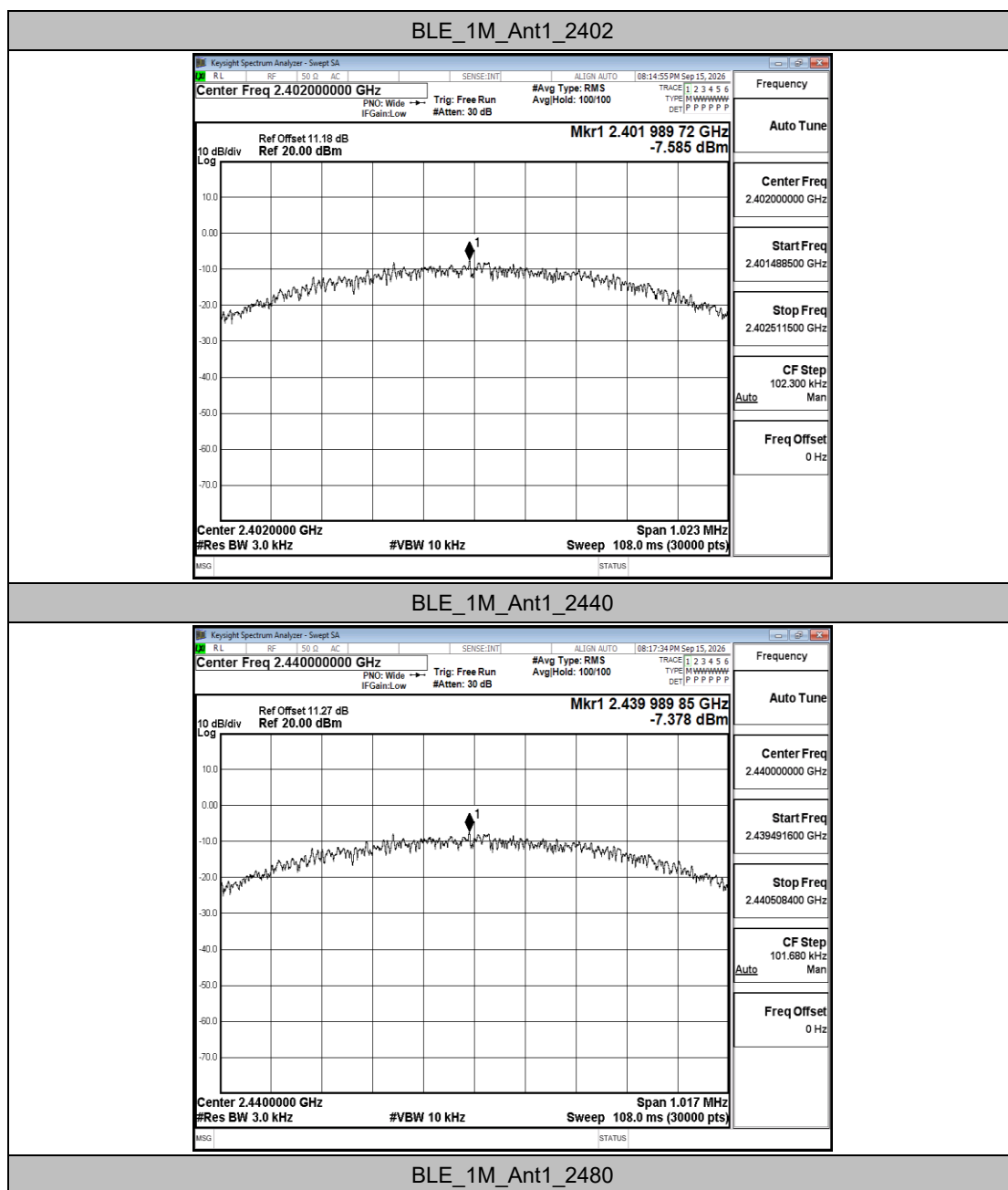


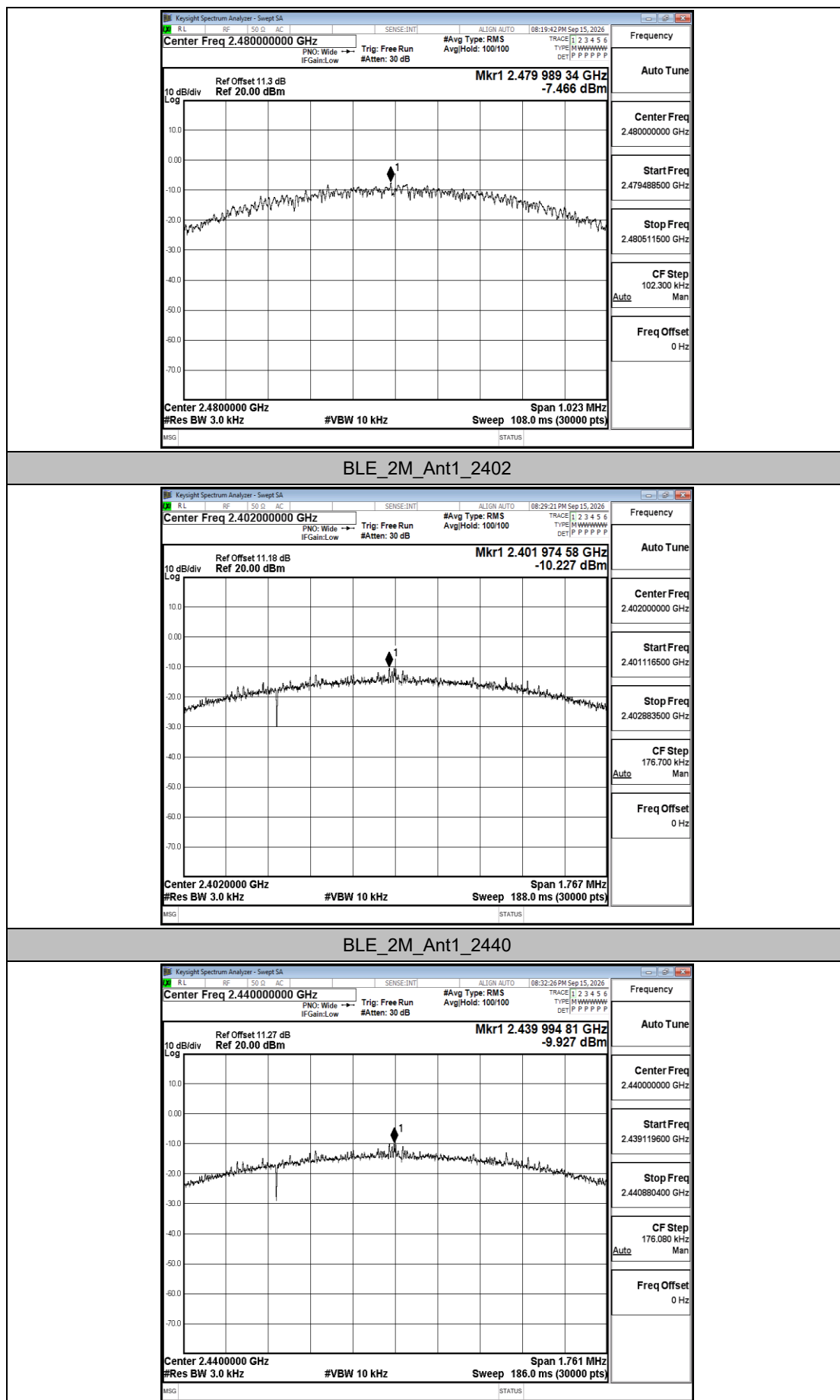
B.3 Maximum power spectral density

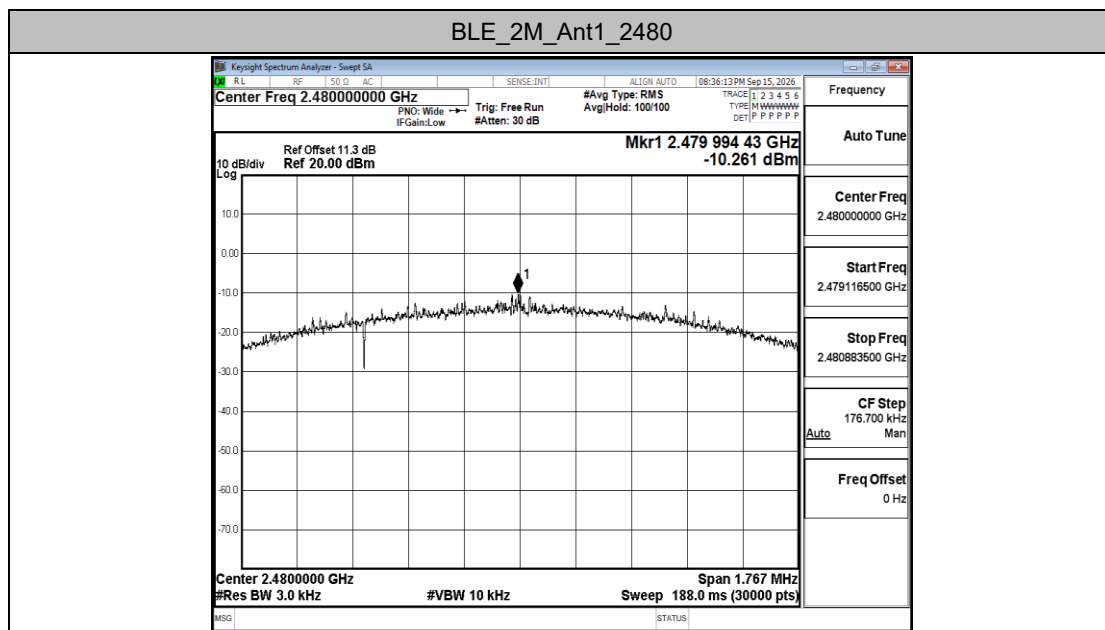
Test Result

TestMode	Antenna	Freq (MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.59	≤8.00	PASS
		2440	-7.38	≤8.00	PASS
		2480	-7.47	≤8.00	PASS
BLE_2M	Ant1	2402	-10.23	≤8.00	PASS
		2440	-9.93	≤8.00	PASS
		2480	-10.26	≤8.00	PASS

Test Graphs





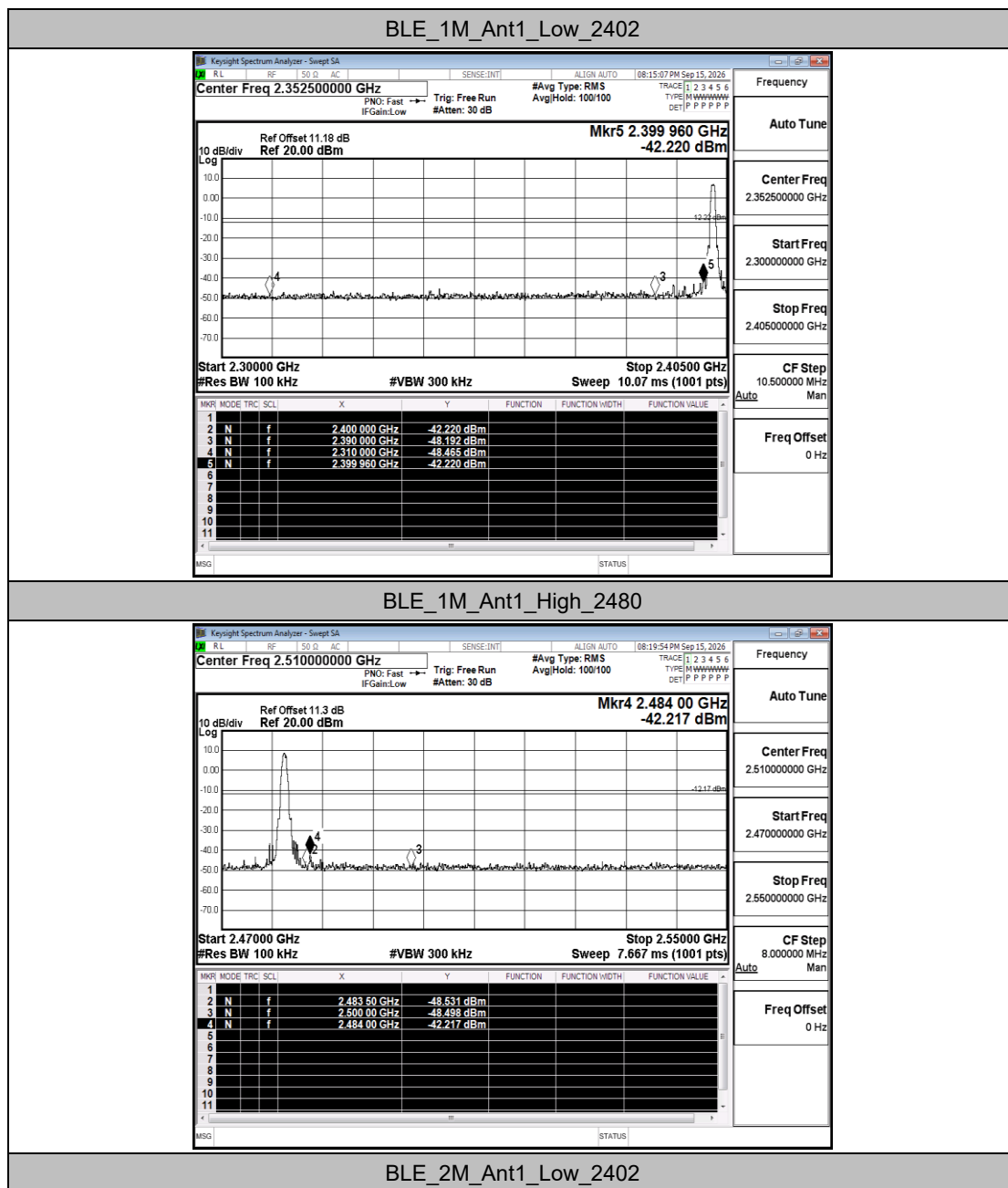


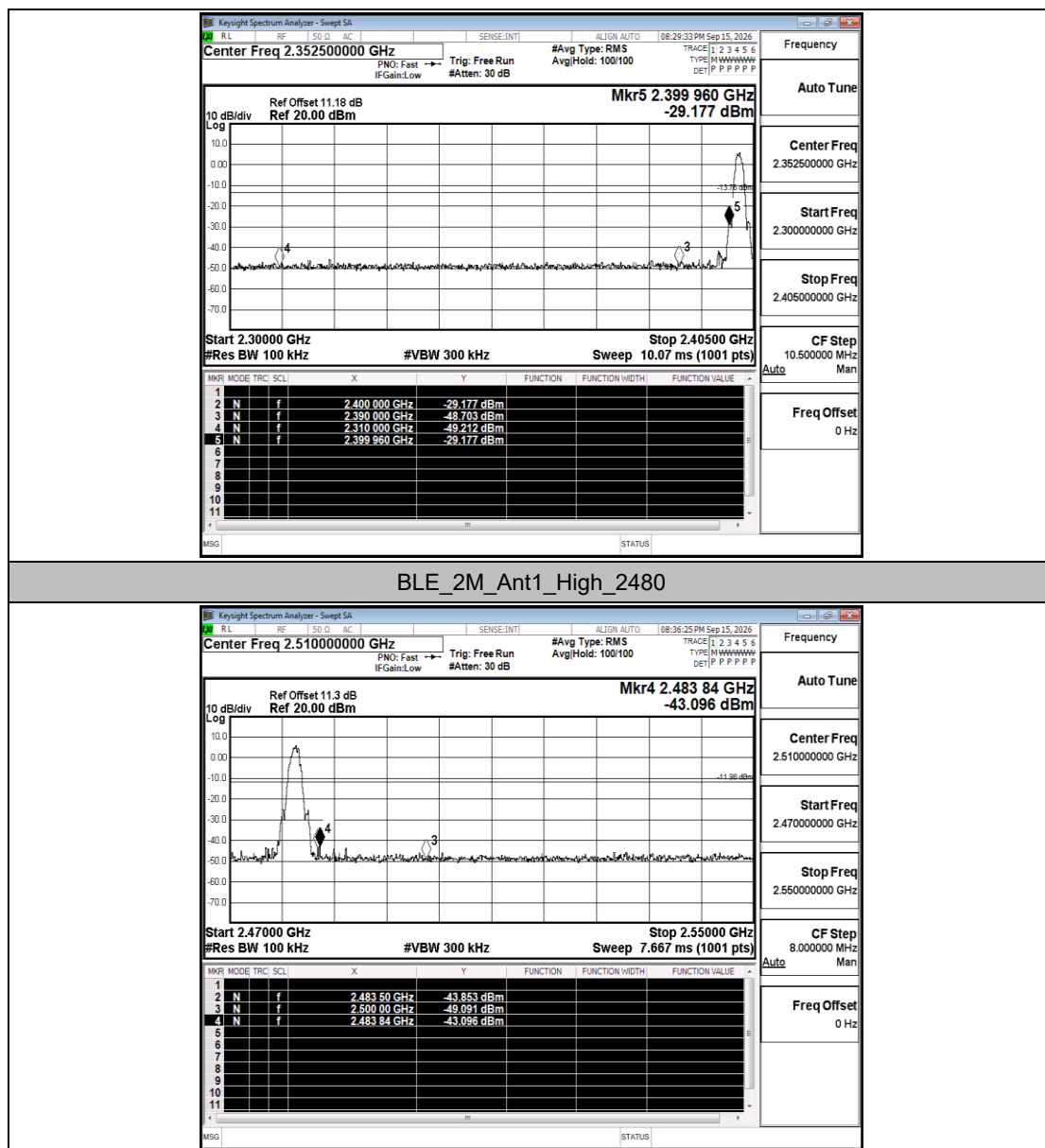
B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq (MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.78	-42.22	≤-12.22	PASS
		High	2480	7.83	-42.22	≤-12.17	PASS
BLE_2M	Ant1	Low	2402	6.24	-29.18	≤-13.76	PASS
		High	2480	8.02	-43.1	≤-11.98	PASS

Test Graphs



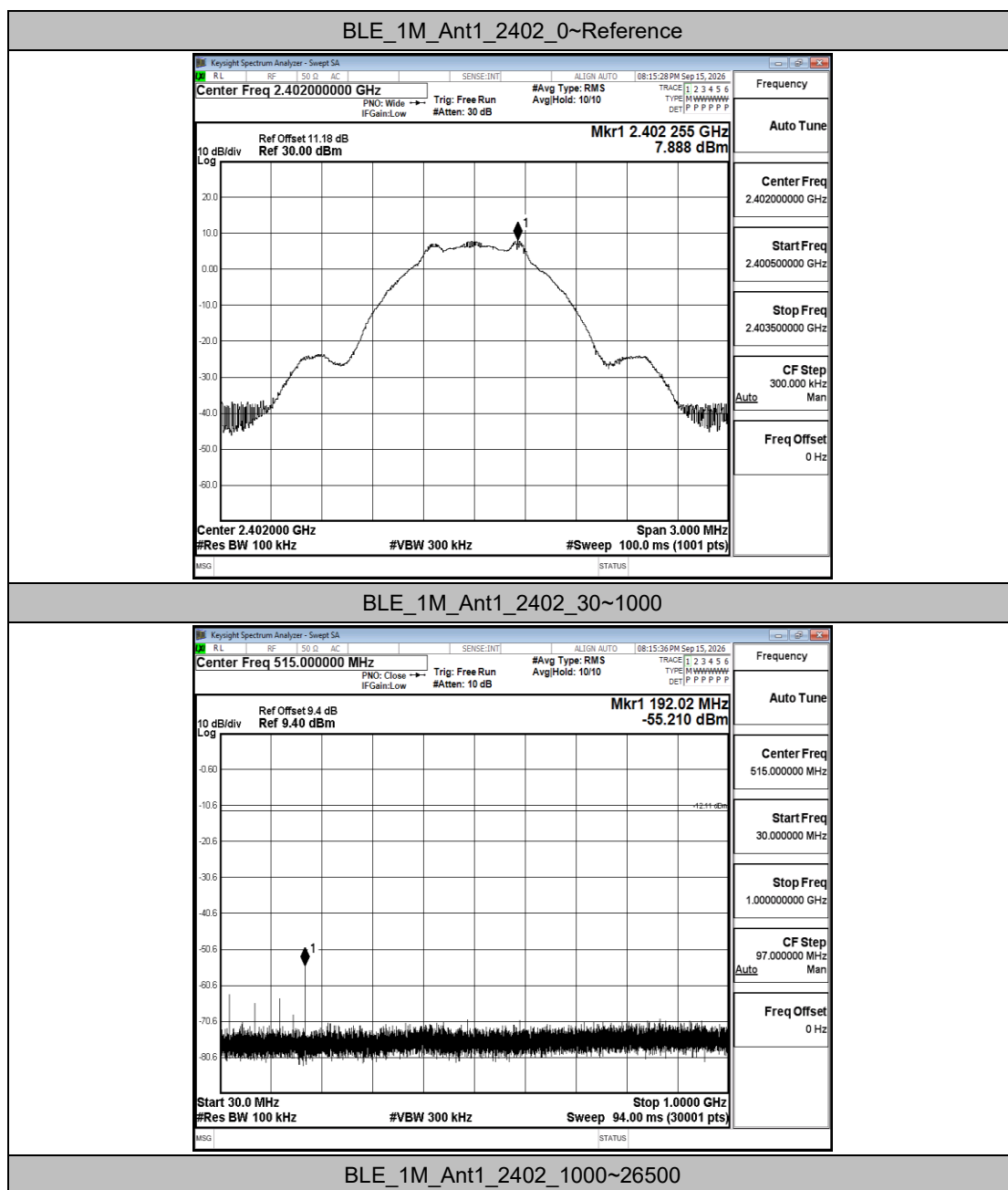


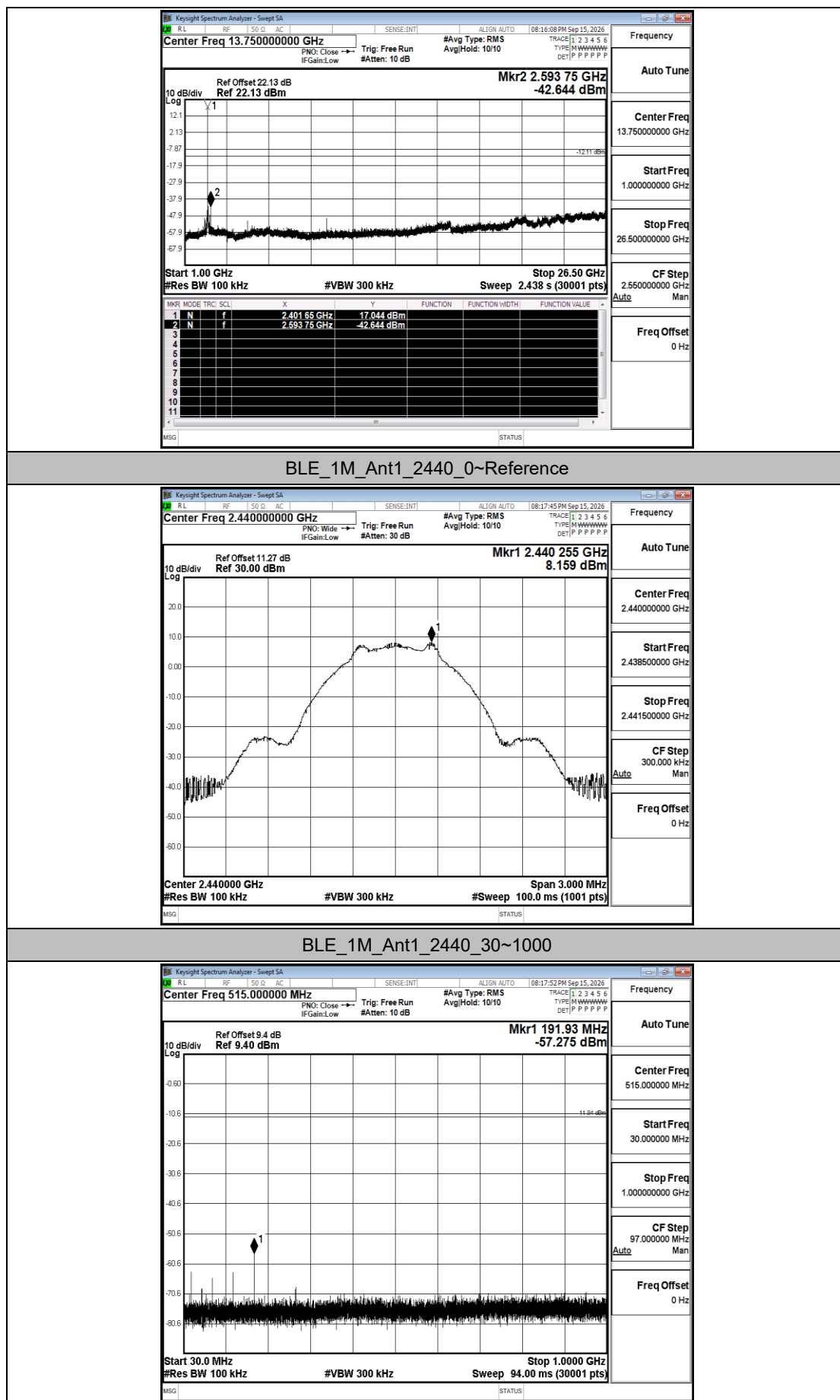
B.5 Conducted Spurious Emission

Test Result

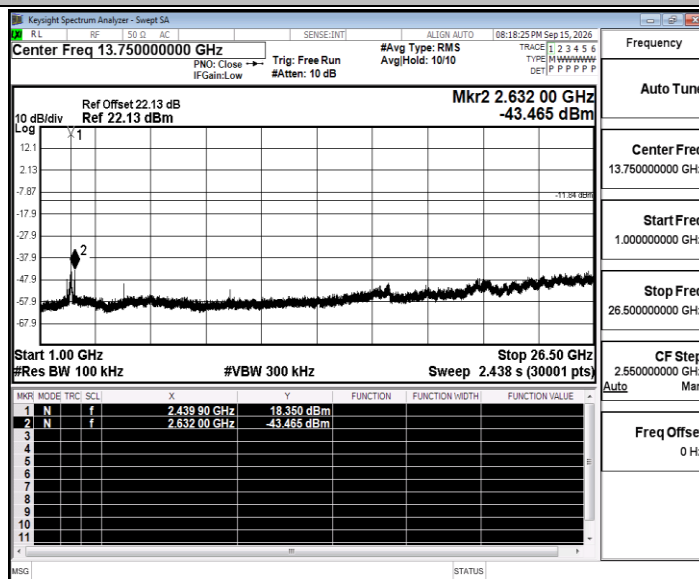
TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	7.89	7.89	---	PASS
			30~1000	7.89	-55.21	≤-12.11	PASS
			1000~26500	7.89	-42.64	≤-12.11	PASS
		2440	Reference	8.16	8.16	---	PASS
			30~1000	8.16	-57.28	≤-11.84	PASS
			1000~26500	8.16	-43.47	≤-11.84	PASS
		2480	Reference	7.92	7.92	---	PASS
			30~1000	7.92	-57.35	≤-12.08	PASS
			1000~26500	7.92	-43.24	≤-12.08	PASS
BLE_2M	Ant1	2402	Reference	7.73	7.73	---	PASS
			30~1000	7.73	-57.24	≤-12.27	PASS
			1000~26500	7.73	-44.99	≤-12.27	PASS
		2440	Reference	8.10	8.10	---	PASS
			30~1000	8.10	-57.17	≤-11.9	PASS
			1000~26500	8.10	-44.4	≤-11.9	PASS
		2480	Reference	7.91	7.91	---	PASS
			30~1000	7.91	-57.29	≤-12.09	PASS
			1000~26500	7.91	-44.04	≤-12.09	PASS

Test Graphs

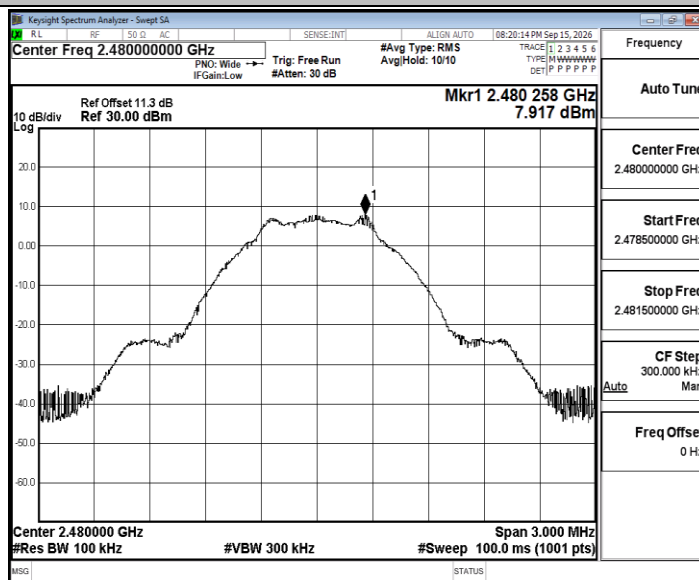




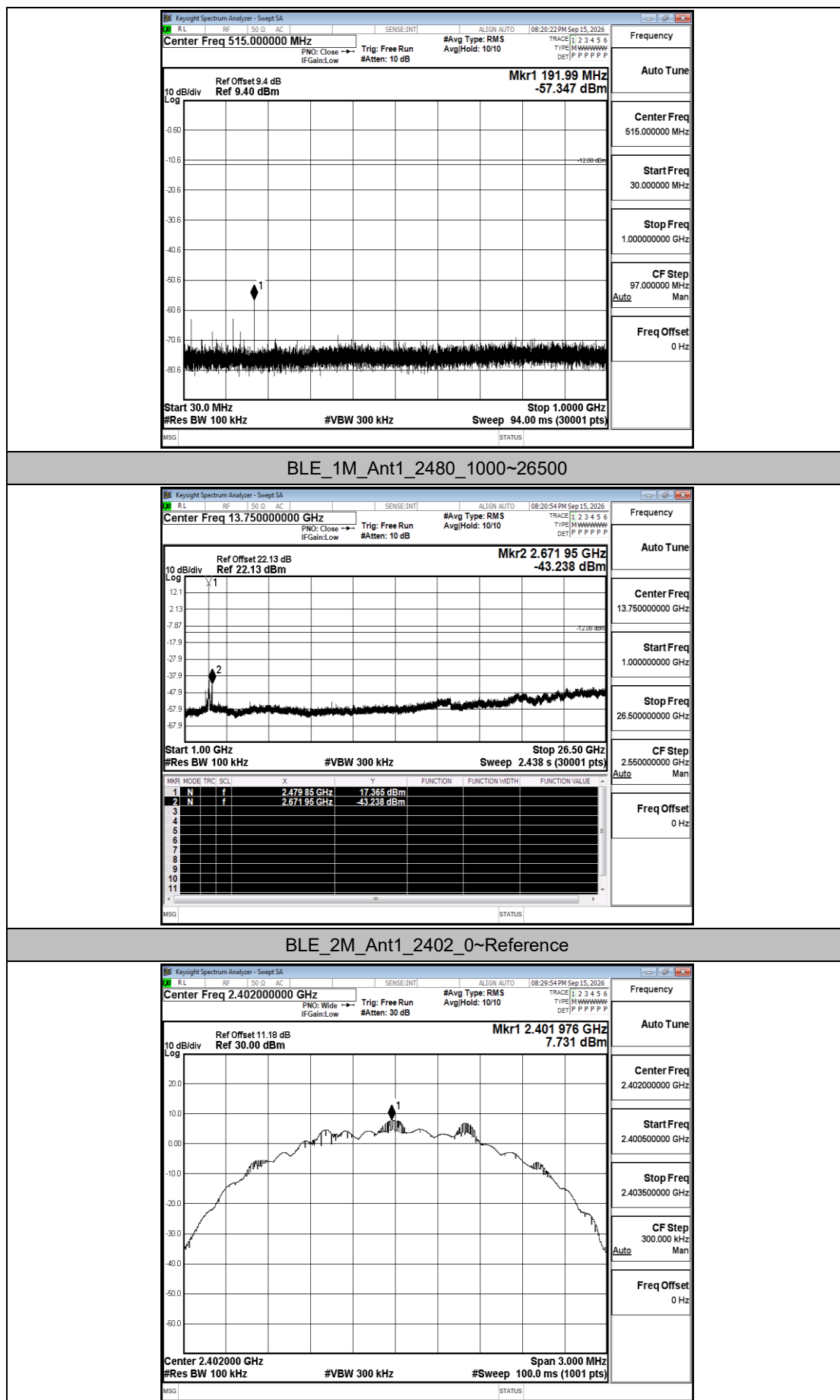
BLE_1M_Ant1_2440_1000~26500



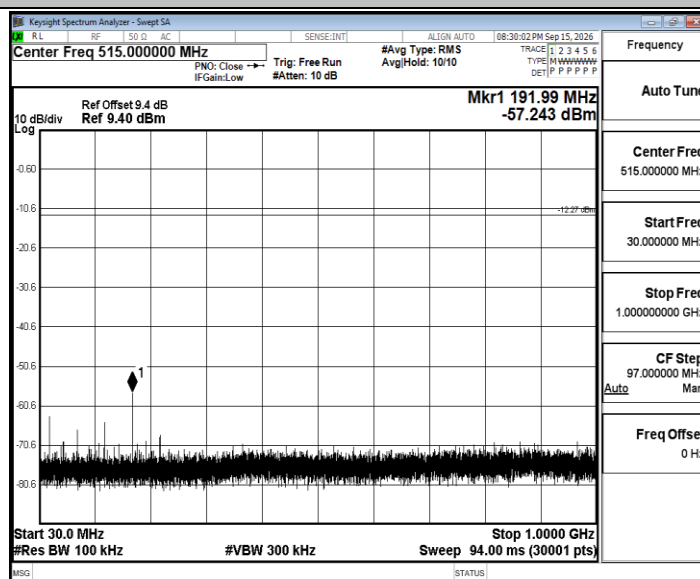
BLE_1M_Ant1_2480_0~Reference



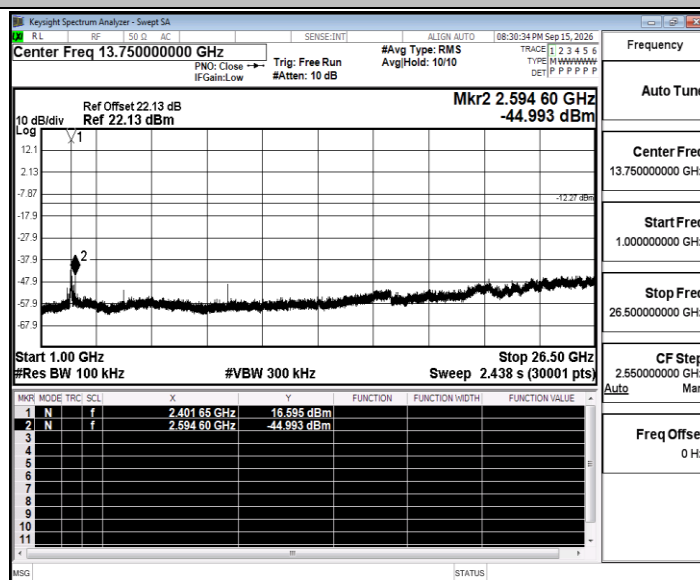
BLE_1M_Ant1_2480_30~1000



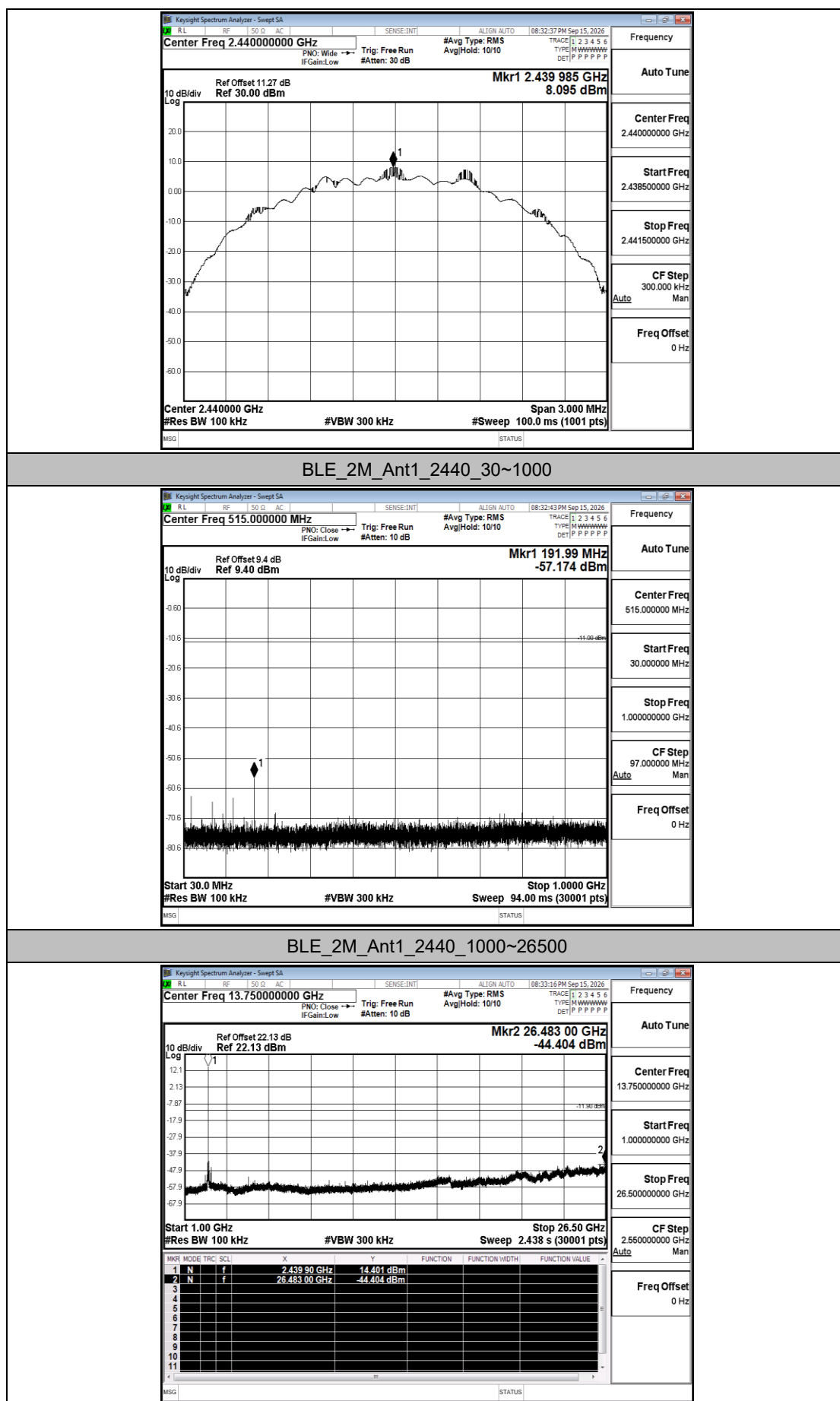
BLE_2M_Ant1_2402_30~1000



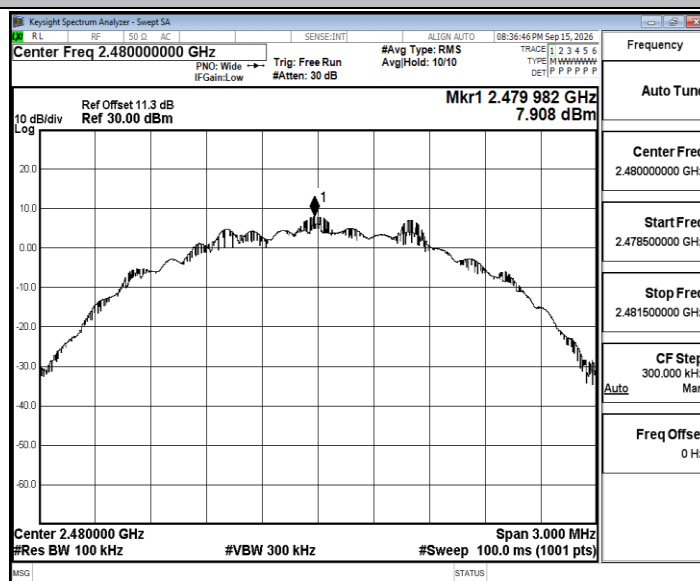
BLE_2M_Ant1_2402_1000~26500



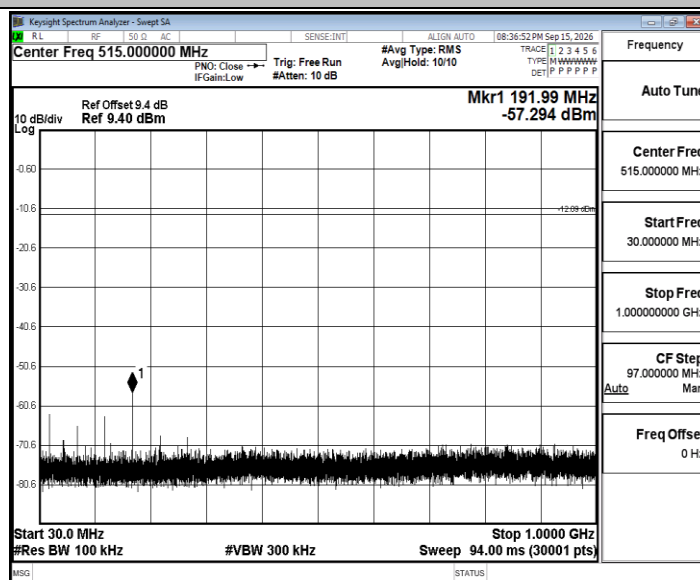
BLE_2M_Ant1_2440_0~Reference



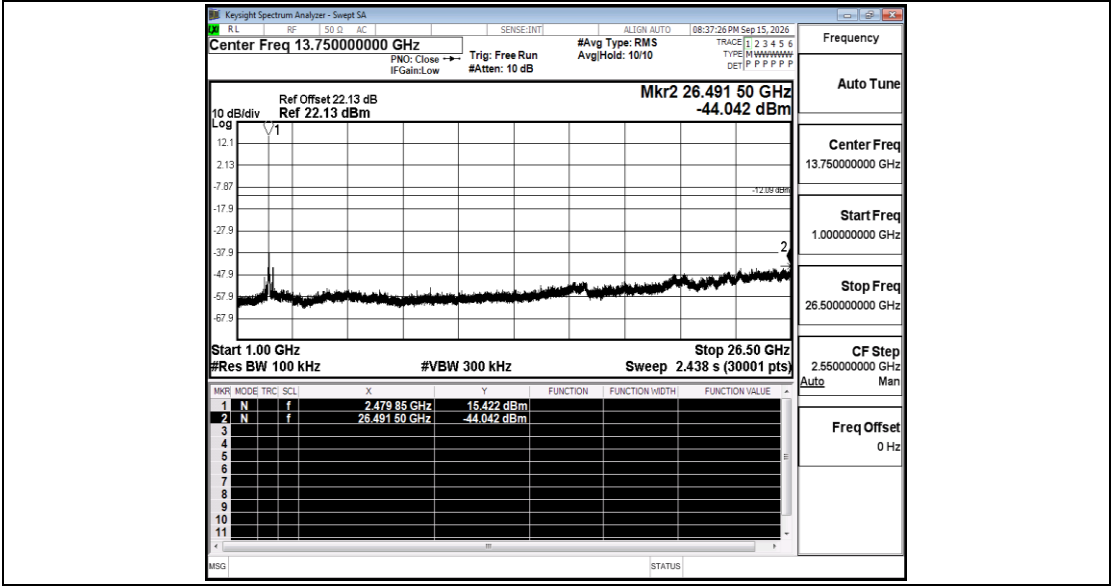
BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

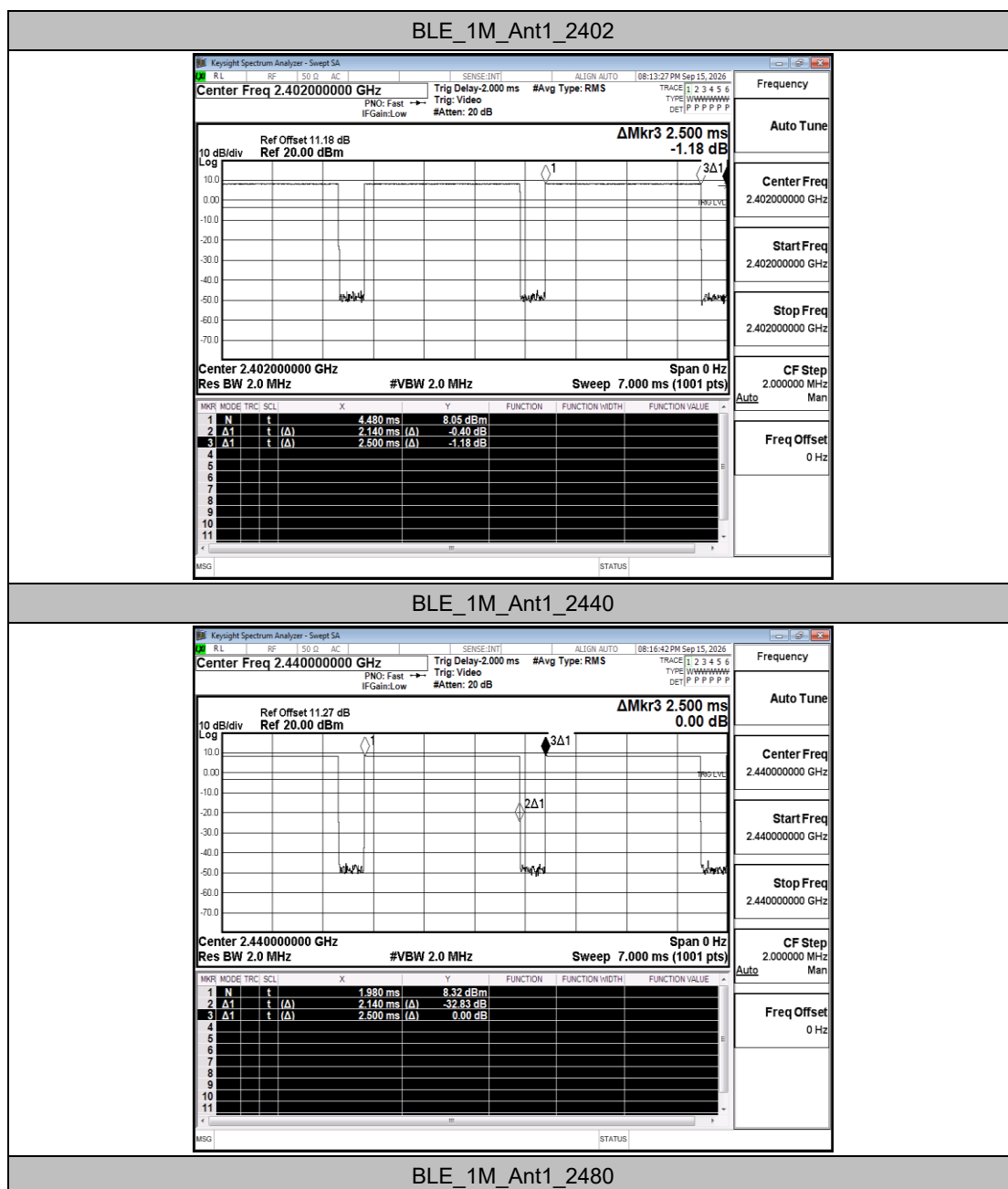


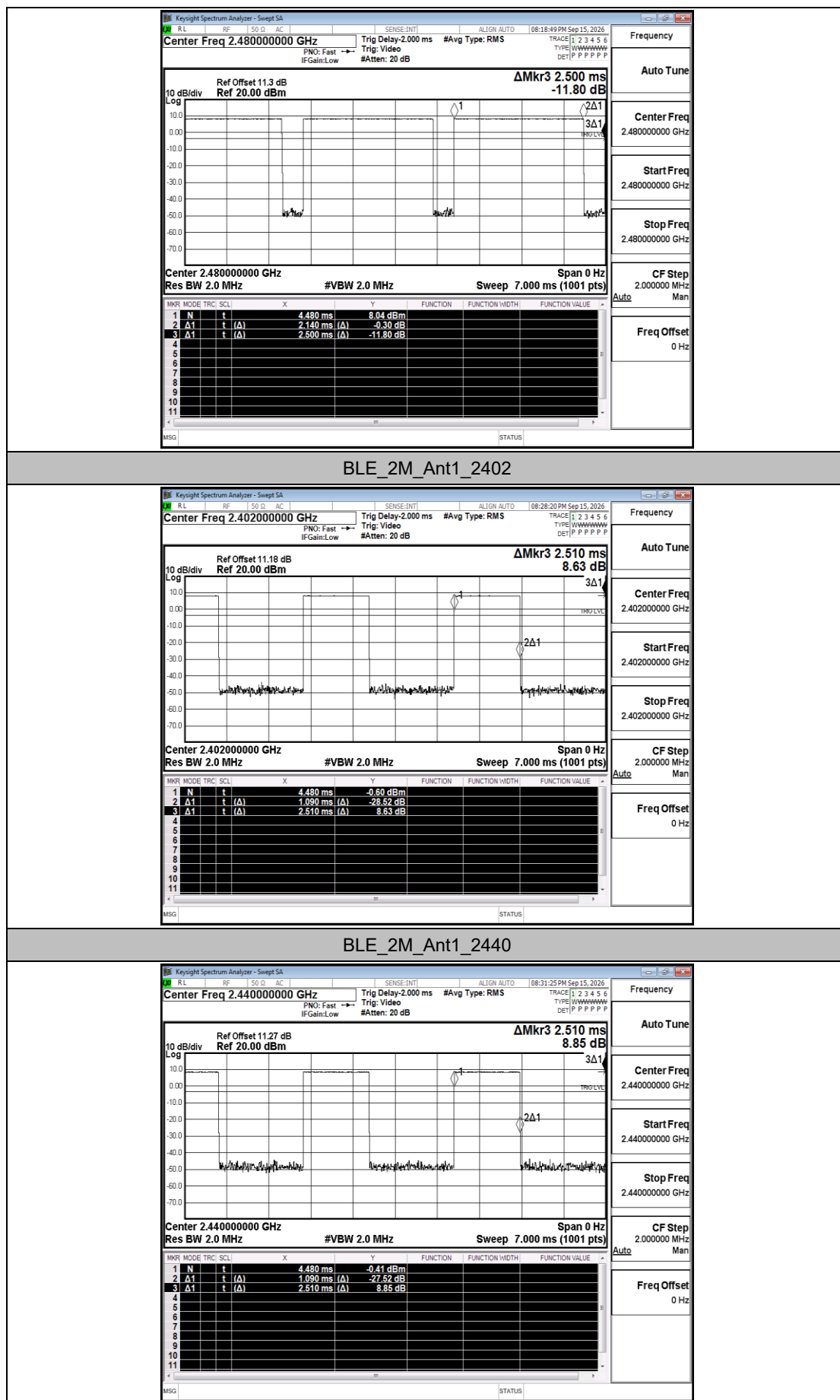
B.6 Duty Cycle

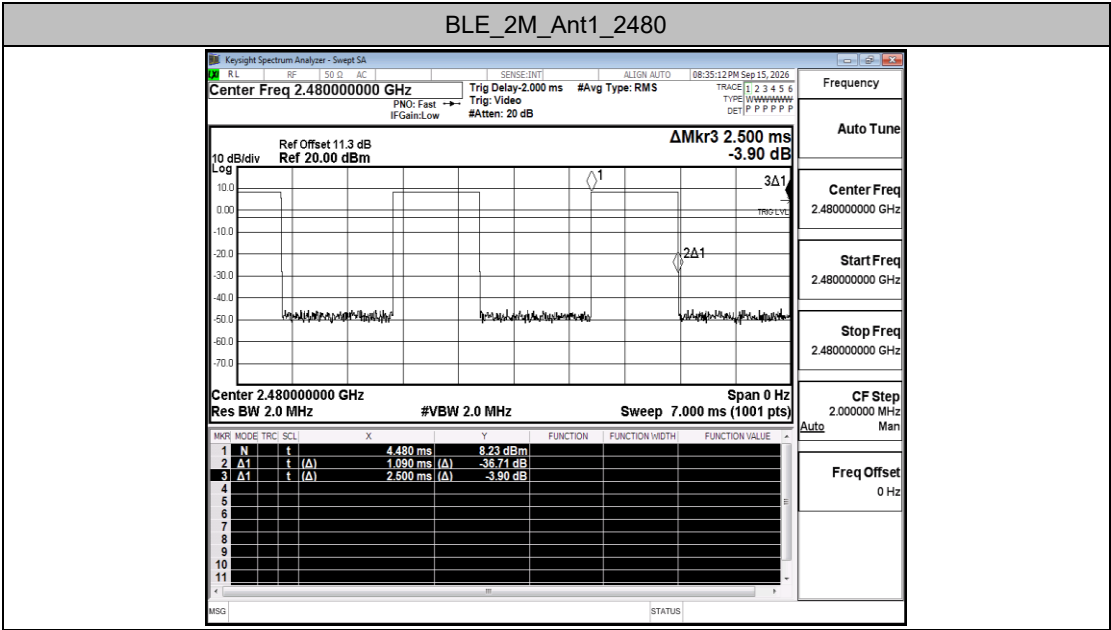
Test Result

TestMode	Antenna	Freq (MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	2.14	2.50	0.8560	85.60	0.68	---	---
		2440	2.14	2.50	0.8560	85.60	0.68	---	---
		2480	2.14	2.50	0.8560	85.60	0.68	---	---
BLE_2M	Ant1	2402	1.09	2.51	0.4343	43.43	3.62	---	---
		2440	1.09	2.51	0.4343	43.43	3.62	---	---
		2480	1.09	2.50	0.4360	43.60	3.61	---	---

Test Graphs







B.7 Emissions in Restricted Bands

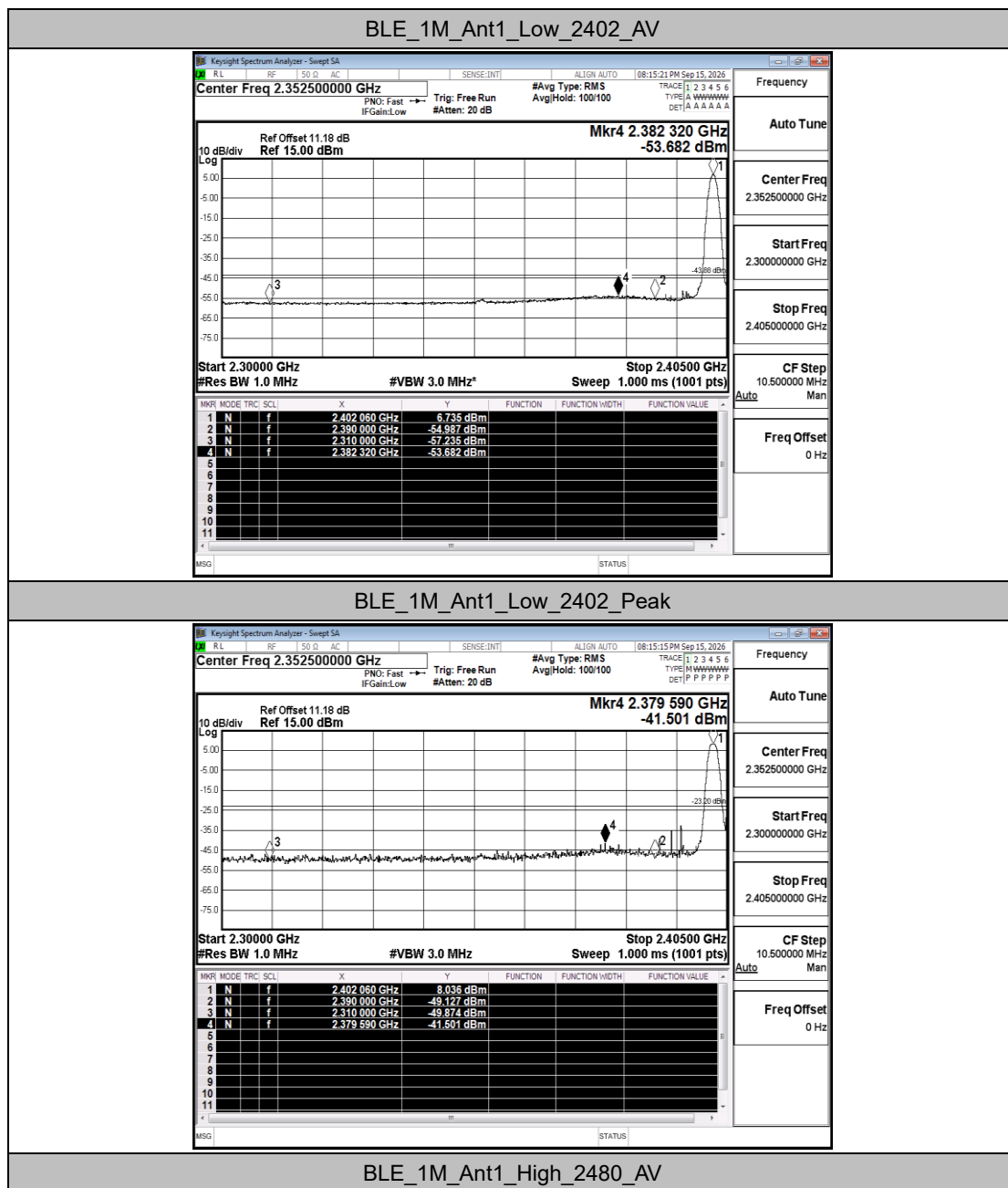
Test Result

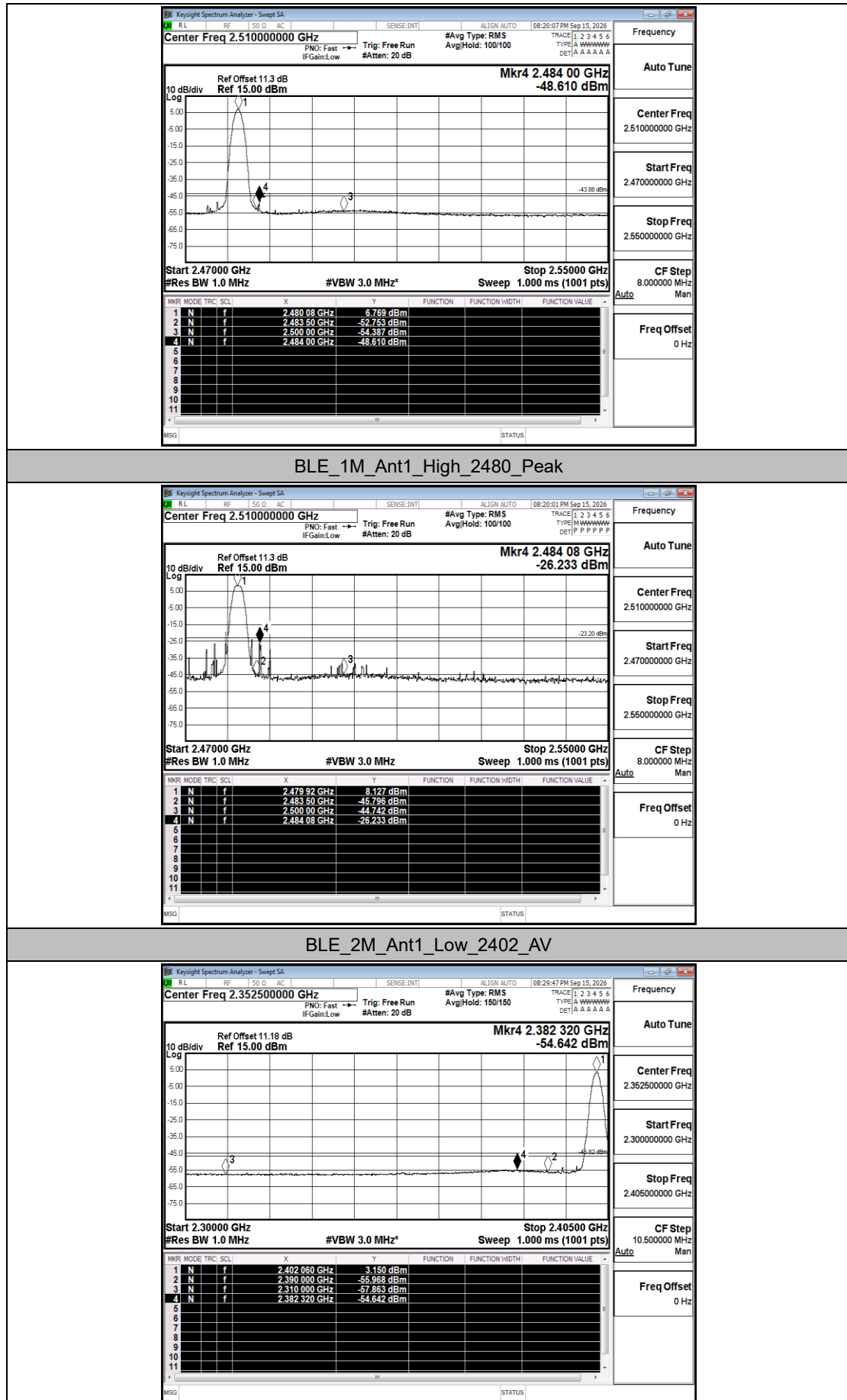
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-57.24	≤-43.88	2.00	0.68	40.64	≤54	PASS
				AV	2382.320	-53.68	≤-43.88	2.00	0.68	44.20	≤54	PASS
				AV	2390.000	-54.99	≤-43.88	2.00	0.68	42.89	≤54	PASS
				Peak	2310.000	-49.87	≤-23.20	2.00	0.00	47.33	≤74	PASS
				Peak	2379.590	-41.5	≤-23.20	2.00	0.00	55.70	≤74	PASS
				Peak	2390.000	-49.13	≤-23.20	2.00	0.00	48.07	≤74	PASS
		High	2480	AV	2483.500	-52.75	≤-43.88	2.00	0.68	45.13	≤54	PASS
				AV	2484.000	-48.61	≤-43.88	2.00	0.68	49.27	≤54	PASS
				AV	2500.000	-54.39	≤-43.88	2.00	0.68	43.49	≤54	PASS
				Peak	2483.500	-45.8	≤-23.20	2.00	0.00	51.40	≤74	PASS
				Peak	2484.080	-26.23	≤-23.20	2.00	0.00	70.97	≤74	PASS
				Peak	2500.000	-44.74	≤-23.20	2.00	0.00	52.46	≤74	PASS
BLE_2M	Ant1	Low	2402	AV	2310.000	-57.86	≤-46.82	2.00	3.62	42.96	≤54	PASS
				AV	2382.320	-54.64	≤-46.82	2.00	3.62	46.18	≤54	PASS
				AV	2390.000	-55.97	≤-46.82	2.00	3.62	44.85	≤54	PASS
				Peak	2310.000	-49.12	≤-23.20	2.00	0.00	48.08	≤74	PASS
				Peak	2386.205	-38.43	≤-23.20	2.00	0.00	58.77	≤74	PASS
				Peak	2390.000	-47.65	≤-23.20	2.00	0.00	49.55	≤74	PASS
		High	2480	AV	2483.500	-51.46	≤-46.81	2.00	3.61	49.35	≤54	PASS
				AV	2484.320	-50.24	≤-46.81	2.00	3.61	50.57	≤54	PASS
				AV	2500.000	-55.27	≤-46.81	2.00	3.61	45.54	≤54	PASS
				Peak	2483.500	-30.35	≤-23.20	2.00	0.00	66.85	≤74	PASS
				Peak	2483.600	-26.61	≤-23.20	2.00	0.00	70.59	≤74	PASS
				Peak	2500.000	-45.18	≤-23.20	2.00	0.00	52.02	≤74	PASS

Note:

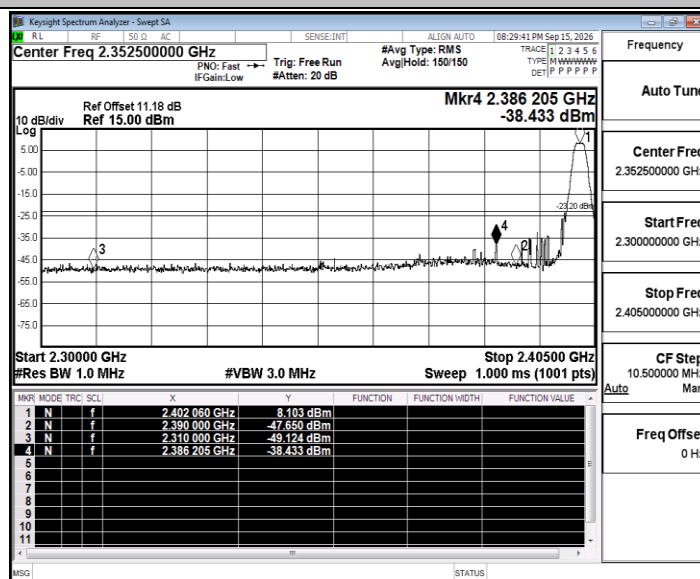
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

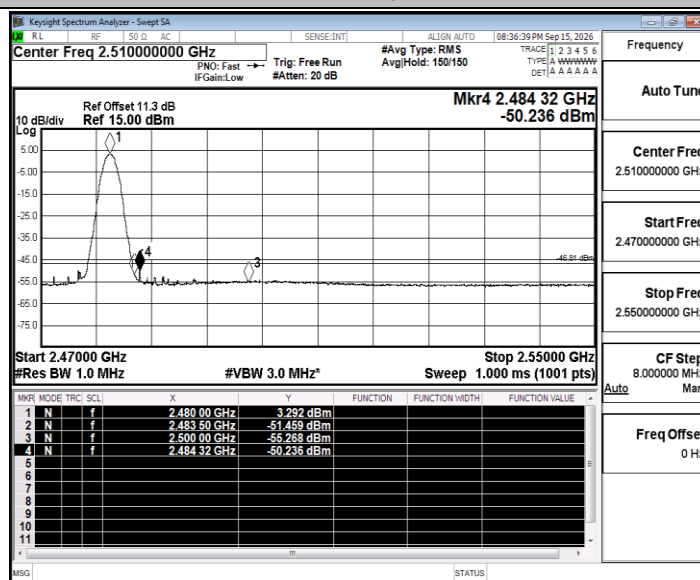




BLE_2M_Ant1_Low_2402_Peak



BLE_2M_Ant1_High_2480_AV



BLE_2M_Ant1_High_2480_Peak

